

Exhibit H

Geologic and Soil Stability

**Sunstone Solar Project
June 2023**

Prepared for



Sunstone Solar, LLC

Prepared by



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Acronyms and Abbreviations

Applicant	Sunstone Solar, LLC, a subsidiary of Pine Gate Renewables, LLC
BMP	best management practice
DOGAMI	Oregon Department of Geology and Mineral Industries
ESCP	Erosion and Sediment Control Plan
FEMA	Federal Emergency Management Agency
IBC	International Building Code
kV	kilovolt
LiDAR	light detection and ranging
O&M	operations and maintenance
OAR	Oregon Administrative Rule
ODOE	Oregon Department of Energy
OSSC	Oregon Structural Specialty Code
PGA	peak ground acceleration
SLIDO	Statewide Landslide Information Database for Oregon
USGS	U.S. Geological Survey

1.0 Introduction

Sunstone Solar, LLC, a subsidiary of Pine Gate Renewables, LLC (Applicant), proposes to construct and operate the Sunstone Solar Project (Facility), a photovoltaic solar energy generation facility and related or supporting facilities in Morrow County, Oregon. This Exhibit H was prepared to meet the submittal requirements in Oregon Administrative Rule (OAR) 345-021-0010(1)(h).

2.0 Analysis Area

The analysis area, as defined in the Project Order (ODOE 2022), for structural standards is area within the site boundary (Figure H-1). The analysis area for historical and potentially active faults included a 50-mile buffer around the site boundary. The proposed site boundary is defined in detail in Exhibits B and C, which include the information required by OAR 345-021-0010(1)(b) and (c).

3.0 Geologic Report

OAR 345-021-0010(1)(h) Information from reasonably available sources regarding the geological and soil stability within the analysis area, providing evidence to support findings by the Council as required by OAR 345-022-0020, including:

(A) A geologic report meeting the Oregon State Board of Geologist Examiners geologic report guidelines. Current guidelines must be determined based on consultation with the Oregon Department of Geology and Mineral Industries, as described in paragraph (B) of this subsection;

3.1 Topographic Setting

The site boundary is in Morrow County, approximately 10 miles northeast of Lexington and 15 miles south of Boardman, Oregon. The northern border of Morrow County is located along the Columbia River and the southern boundary is located along the Blue Mountains. Morrow County topography varies from gently rolling plains adjoining the Columbia River to broad plateaus and rounded ridges in the central area of the County. More rugged terrain of a forested spur of the Blue Mountains is in the southern part of the County (Morrow County Oregon 2017).

The proposed Facility occupies slopes from 0 to 32 percent, with an average of 2.5 percent. Elevations within the site boundary range from 879 to 1,440 feet above mean sea level.

3.2 Geologic Setting

The geologic setting of the proposed Facility is located in the Columbia Plateau province (NPS 2023). The topography in the province is dominated by geologically young lava flows that have occurred within the last 17 million years. Over 170,000 cubic kilometers of basaltic lava, known as the Columbia River basalts, covers the western part of the province. As shown in Figure H-1 (DOGAMI 2023a), the site boundary geology includes Quaternary flood deposits, fan deposits, and

alluvial deposits that overlie Tertiary basalt. Tertiary basalt formations are mapped at the surface in the eastern portion of the site boundary. Quaternary deposits include alluvium, colluvium, river and coastal terrace, landslide, glacial, eolian, beach, lacustrine, playa and pluvial lake deposits, and outburst flood deposits left by the Missoula and Bonneville floods. The geologic descriptions below are summarized from the Oregon Department of Geology and Mineral Industries (DOGAMI) geologic map (DOGAMI 2023a).

3.2.1 Bedrock Geologic Units

Basalt flows near the site boundary include the Tertiary Wanapum Basalt and Alkali Canyon formations in the eastern portion. The Wanapum Basalt is fine- to coarse-grained basalt and varies from intact to weathered conditions. The Tertiary Alkali Canyon formation includes interbedded basalt flows consisting of vitric tuff, silty clay, silt, basalt gravel, and alluvial fan and braided stream deposits.

3.2.2 Unconsolidated Geologic Units

Quaternary alluvial deposits are located along two major drainages within the eastern portion of the site boundary (Figure H-1). Alluvial deposits consist of loess, sand, and gravel from local, parent-material bedrock.

Missoula flood deposits located along the western portion of the site boundary consist of boulder to pebble gravel, sandy gravel, sand, and silt deposited during floods caused by repeated failure of the glacial ice dam that impounded glacial Lake Missoula.

Most of the site boundary is mapped within alluvial fan deposits. Alluvial fans are triangular deposits of gravel, sand, and smaller sediments including loess. Loess (wind-deposited fine sand and silt) mantles the uplands and flatter plateaus, including much of the Columbia Plateau. Most loess in the Columbia Plateau is between 15 and 30 feet thick but can be less than 3 feet thick in upland areas.

4.0 Consultation with DOGAMI

OAR 345-021-0010(1)(h)(B) A summary of consultation with the Oregon Department of Geology and Mineral Industries regarding the appropriate methodology and scope of the seismic hazards and geology and soil-related hazards assessments, and the appropriate site-specific geotechnical work that must be performed before submitting the application for the Department to determine that the application is complete;

A meeting with the Oregon Department of Geology and Mineral Industries (DOGAMI) was held on April 26, 2023. The meeting memorandum is included in Attachment H-1. Meeting attendees included representatives of DOGAMI, Oregon Department of Energy (ODOE), Pine Gate Renewables, and Tetra Tech. DOGAMI staff generally noted that the existing analysis used the correct data and interpreted the data correctly and commented that the visuals reviewed on screen during the call

(i.e., the draft Exhibit H figures) were great. In addition, DOGAMI agreed that Site Class D was appropriate for use in seismic evaluation and design of the Facility. DOGAMI recommended that review of available DOGAMI light detection and ranging (LiDAR) mapping be conducted for the area of a mapped fault and for potential signs of landslides, especially along Sand Hollow Creek. The Applicant completed this LiDAR mapping review and included the results of this review in this exhibit. In addition, ODOE requested that the ASC include a scope and outline of the anticipated site-specific geotechnical studies that will be conducted prior to construction.

5.0 Site-Specific Geotechnical Investigation

OAR 345-021-0010(1)(h)(C) A description and schedule of site-specific geotechnical work that will be performed before construction for inclusion in the site certificate as conditions.

A Geotechnical Desktop Study Report for the Facility was prepared by Tetra Tech on November 23, 2021. The report included a detailed literature review of the local and regional geology within the analysis area. This included evaluating existing reports for adjacent sites and reviewing other published literature and geologic mapping. The literature review included a detailed evaluation of seismic hazards at the Facility (see Section 7.0).

Prior to final engineering and construction, the Applicant plans to engage a geotechnical engineering firm to perform a full geotechnical analysis of the site and the Applicant will report its findings to DOGAMI and ODOE. The information gathered will inform design of the following: pile foundations, substation pads, inverter pads, battery energy storage system pads, operations and maintenance (O&M) building pads, and roads. As requested by DOGAMI, the scope of work for this geotechnical work is described here. Currently the scope of work the Applicant would employ pre-construction includes but is not limited to the following investigations:

- Soil Borings, Standard Penetrator, and/or Cone Penetrator Tests
- Soil Electrical Resistivity Tests
- Standard Proctor Compaction Tests
- Soil Thermal Resistivity Tests
- Moisture Content Analysis
- Sieve Analysis
- Atterberg Limits Tests
- Corrosivity Tests
- California Bearing Ratio Tests

The Applicant may update this list based on best practices that exist at the time of engineering.

6.0 Transmission Lines and Pipelines

OAR 345-021-0010(1)(h)(D) For all transmission lines, and for all pipelines that would carry explosive, flammable or hazardous materials, a description of locations along the proposed route where the applicant proposes to perform site specific geotechnical work, including but not limited to railroad crossings, major road crossings, river crossings, dead ends (for transmission lines), corners (for transmission lines), and portions of the proposed route where geologic reconnaissance and other site specific studies provide evidence of existing landslides, marginally stable slopes or potentially liquefiable soils that could be made unstable by the planned construction or experience impacts during the facility's operation;

The proposed Facility includes approximately 9.5 miles of 230-kilovolt (kV) overhead transmission lines to connect the collector substations to the two switchyards and then to the existing Umatilla Electric Cooperative 230-kV Blue Ridge Line, all entirely within the unincorporated areas of Morrow County (see Exhibit C, Figure C-2).

The Applicant will perform site-specific geotechnical work along the transmission line where potential geologic hazards have been identified to inform the final design of the proposed Facility.

The 230-kV lines will be supported either by H-frame structures with two galvanized steel or wood poles or by a galvanized steel or wood monopole structure. The structures will rise to a height of approximately 70 to 180 feet above grade, depending on the terrain. The transmission line corridor is approximately 1,000 feet in width. The 230-kV lines will generally have 1,000-foot-long spans between structures with 2-foot-diameter poles; however, spans may be shorter or longer depending on the terrain.

The proposed Facility does not include pipelines carrying hazardous substances as described in OAR 345-021-0010(1)(h)(E).

7.0 Seismic Hazard Assessment

OAR 345-021-0010(1)(h)(E) An assessment of seismic hazards, in accordance with standard-of-practice methods and best practices, that addresses all issues relating to the consultation with the Oregon Department of Geology and Mineral Industries described in paragraph (B) of this subsection, and an explanation of how the applicant will design, engineer, construct, and operate the facility to avoid dangers to human safety and the environment from these seismic hazards. Furthermore, an explanation of how the applicant will design, engineer, construct and operate the facility to integrate disaster resilience design to ensure recovery of operations after major disasters. The applicant must include proposed design and engineering features, applicable construction codes, and any monitoring and emergency measures for seismic hazards, including tsunami safety measures if the site is located in the DOGAMI-defined tsunami evacuation zone;

7.1 Methods

Available reference materials were reviewed, and a desktop seismic-hazard assessment was performed for the ASC. Topographic and geologic conditions and hazards within the site boundary were evaluated using topographic and geologic maps, aerial photographs, existing geologic reports, and data from DOGAMI, the Oregon Water Resources Department, the USGS, and the Natural Resources Conservation Service.

A desktop seismic-hazard analysis characterized seismicity in the Facility's vicinity to evaluate potential seismic impacts. This work was based on the potential regional and local seismic activity described in the existing scientific literature and on subsurface soil and groundwater conditions found in the desktop evaluations. The seismic-hazard analysis consisted of the following tasks:

1. Detailed review of USGS, National Geophysical Data Center, and DOGAMI literature and databases.
2. Identification of potential seismic events and characterization of those events in terms of a series of design events.
3. Evaluation of seismic hazards, including potential fault rupture, earthquake-induced landslides, liquefaction and lateral spread, settlement, and subsidence.
4. Mitigation recommendations based on the characteristics of the subsurface soils and design earthquakes, including specific seismic events that might have a significant effect on the site, potential for seismic energy amplification at the site, and the site-specific acceleration response spectrum.

As described in Section 5.0, a site-specific geotechnical investigation will be conducted by a qualified engineer using current code requirements and state-of-practice methods to inform the final design. It will be reported to DOGAMI and ODOE following the 2014 Oregon State Board of Engineering Geology Reports guidelines.

7.2 Maximum Considered Earthquake Ground Motion

Overall, the DOGAMI HazView mapping tool (DOGAMI 2023b) indicates that the Cascadia earthquake hazard is moderate except for narrow drainage alluvial deposits that are rated as very strong. The general earthquake hazard in the site boundary is rated moderate and very strong in the area of the alluvial fan deposits. The narrow alluvial deposits along drainages/streams that are mapped as very strong. The USGS Seismic Hazard Mapping Facility (USGS 2023a) developed ground motions using a probabilistic seismic hazard analysis that covered the proposed Facility site. Though these motions are not site-specific, they reasonably estimate the ground motions within the site boundary. For new construction, the site should be designed for the maximum considered earthquake, according to the most recently updated International Building Code (IBC; ICC 2021) supplemented by the Oregon Structural Specialty Code (OSSC; OSSC 2022; per Condition GEN-SS-01). The USGS unified hazard tool analysis was re-run for the site boundary, and the design event has a 2 percent probability of exceedance in 50 years (or a 2,475-year return period). This event has a peak ground acceleration (PGA) of 0.2392 acceleration from gravity at the bedrock surface for

the site boundary. The values of PGA on rock are an average representation of the acceleration most likely to occur at the site for all seismic events (crustal, intraplate, or subduction).

Seismic design parameters were developed following IBC 2015. Using current information, the Facility would be designed for Site Class D, according to IBC requirements (Table H-1). Some areas within the site boundary generally have characteristics that meet Site Class B or C. However, Site Class D characteristics are present in large portions of the site boundary and therefore Site Class D is the most conservative Site Class for Facility design.

Table H-1. Seismic Design Parameters – Maximum Considered Earthquake

Location	Site Class	Earthquake Magnitude	Peak Horizontal Ground Acceleration	Return Period
Facility Site Boundary	D	6.29	0.2392g	2,475 years
Facility Site Boundary	C	6.29	0.1993g	2,475 years
Facility Site Boundary	B	6.34	0.1441g	2,475 years
Facility Site Boundary	D	6.37	0.1040g	475 years
Facility Site Boundary	C	6.41	0.08056g	475 years
Facility Site Boundary	B	6.47	0.0579g	475 years
Source: USGS 2023a.				

7.2.1 Earthquake Sources

In northern Oregon, seismicity is generated when the Juan de Fuca Plate and the North American Plate converge at the Cascadia Subduction Zone. These plates converge at a rate of 1 to 2 inches per year, accumulating large amounts of stress that release abruptly in earthquake events. The four sources of earthquakes and seismic activity in this region are crustal, intraplate, volcanic, and the deep subduction zone (DOGAMI 2010).

Overall, earthquakes in Oregon are associated with active faults in four regional seismicity zones: the Cascade seismic zone, the Portland Hills zone (the Portland, Oregon and Vancouver, Washington metropolitan area), the south-central zone (Klamath Falls), and northeastern Oregon zone (Niewendorp and Neuhaus 2003). Faults are considered active if there has been displacement in the last 10,000 years, and potentially active if there has been movement over the last Quaternary Period (1.6 million years). Regionally, seismicity has been attributed to crustal deformation from the Cascadia Subduction Zone and volcanism.

Earthquakes caused by movements along crustal faults, generally in the upper 10 to 15 miles of the earth’s crust. In the vicinity of the site boundary, earthquakes occur within the crust of the North American tectonic plate when built-up stresses near the surface are released through fault rupture.

There is one fault line mapped within the site boundary to the east of Sand Hollow Creek (Fault Line 4611) (USGS 2023a; Figure H-1). However, there is no indication that this fault is active within recent/Quaternary time. LiDAR mapping from DOGAMI was not available in the area of the fault

(DOGAMI 2023b). Several undifferentiated, Quaternary-age faults and one Class B fault are mapped within 25 miles of the site boundary (Figure H-2). These faults are potentially active. The DOGAMI Oregon HazVu: Statewide Geohazards Viewer earthquake hazard layer (DOGAMI 2023b) and the USGS Geologic Hazards Science Center (USGS 2023b; Figure H-2) show that the nearest active faults (mid to late Quaternary) are about 20 miles north of the site boundary. The faults in Figure H-2, within 50 miles of the site boundary, present the largest potential for seismic contribution to the proposed Facility. The site-specific geotechnical investigation will assess the fault mapped within the site boundary as well as the potential for regional faults to affect the Facility, as described in Section 5.0. The investigation will include a description of any potentially active faults, their potential risk to the proposed Facility, and any additional mitigation measures the Applicant will employ to design, construct, and operate the proposed Facility safely.

The 2013 Oregon Resilience Plan by the Oregon Seismic Safety Policy Advisory Commission (OSSPAC 2013) simulated the impact of a magnitude 9.0 Cascadia earthquake scenario. This plan places the site boundary into the “very light” shaking category. This means that a magnitude 9.0 Cascadia scenario earthquake would produce a very light shaking event that would be felt outdoors, wake sleepers, disturb or spill liquids, upset small unstable objects, and potentially swing doors or move pictures (OSSPAC 2013).

Probabilistic seismic-hazard deaggregation at 475-year intervals is shown in Attachment H-2 and at 2,475-year intervals in Attachment H-3.

7.2.2 Recorded Earthquakes

Figure H-2 displays the location and approximate magnitude of all recorded earthquakes within approximately 50 miles of the site boundary. The seismic events are grouped by magnitude and displayed with differently-sized symbols based on the event’s strength.

Table H-2 summarizes the earthquakes greater than magnitude 3.0 recorded within 50 miles of the site boundary. Most of these earthquakes were between magnitude 3 and 4 and a Modified Mercalli Intensity III associated with shaking that is “noticeable indoors but may not be recognized as an earthquake” (USGS 2023c).

Table H-2. Significant Historical Earthquakes within 50 Miles of the Site Boundary

Year	Month	Day	Latitude	Longitude	Moment Magnitude	Miles From Site Boundary
1969	04	19	45.897499	-119.703499	2.8	18.42
1970	12	09	46.270168	-119.951164	2.8	46.21
1970	11	29	46.225166	-120.115334	3.0	46.42
1970	10	02	45.712166	-120.640167	2.7	47.31
1970	09	29	45.760502	-119.145500	2.5	23.93
1970	04	04	46.228333	-120.080002	2.7	45.83
1971	01	04	46.230835	-119.363167	3.1	43.35

Year	Month	Day	Latitude	Longitude	Moment Magnitude	Miles From Site Boundary
1972	08	27	45.532833	-120.016167	2.5	15.63
1972	08	21	45.575165	-119.988998	2.6	14.47
1973	12	29	46.048832	-119.657997	2.8	28.76
1975	07	01	45.627998	-120.001999	3.5	16.04
1975	07	01	45.605331	-120.016167	3.6	16.20
1975	06	28	46.092167	-119.722168	2.7	31.89
1975	06	28	46.098999	-119.706001	3.8	32.30
1975	06	28	46.105331	-119.703667	3.3	32.73
1975	06	15	46.234001	-119.113167	3.1	48.55
1975	05	09	45.632999	-118.556000	2.7	49.73
1976	10	10	45.270332	-120.499496	3.6	43.34
1976	07	26	45.646832	-119.973831	2.9	14.98
1977	03	31	45.901833	-119.654167	2.9	18.61
1977	03	11	45.899166	-119.665665	3.1	18.42
1978	12	22	45.891335	-119.328163	2.6	23.21
1978	03	04	46.060333	-118.855499	2.8	47.47
1978	02	20	45.896500	-119.650002	3.2	18.24
1979	03	01	46.047501	-118.905670	2.7	45.10
1979	02	17	46.164165	-119.932663	3.6	38.98
1980	12	18	45.833000	-120.007332	2.8	21.69
1980	03	12	46.124668	-119.025665	2.6	44.92
1980	03	04	45.939999	-119.664001	2.6	21.24
1981	06	14	45.961666	-120.507004	3.2	46.69
1982	11	23	45.997334	-119.288666	3.2	30.23
1982	10	30	45.999001	-119.287498	2.7	30.36
1982	10	12	45.995998	-119.288170	2.8	30.17
1983	10	21	45.660000	-118.915665	2.7	32.52
1984	10	04	46.105499	-120.025665	2.9	37.10
1984	09	07	46.074165	-119.607002	2.5	30.54
1984	08	10	46.125168	-119.787834	2.5	34.57
1984	06	18	45.230835	-118.687500	3.1	49.76
1984	05	14	46.123501	-119.204666	2.5	39.75
1984	04	30	46.040501	-119.878166	2.8	30.06
1984	03	23	45.995998	-119.292168	3.3	30.06
1984	01	18	45.359833	-119.664833	2.5	10.82
1985	12	19	46.250000	-119.613503	2.8	42.67
1985	12	03	46.165501	-119.603333	2.9	36.85

Year	Month	Day	Latitude	Longitude	Moment Magnitude	Miles From Site Boundary
1985	11	18	46.251835	-119.618332	2.9	42.79
1985	08	02	45.443001	-119.953331	2.6	14.20
1985	04	30	45.881668	-119.320503	2.5	22.94
1985	04	17	45.879002	-119.315331	2.6	22.97
1985	03	20	45.963165	-119.904663	3.1	25.68
1985	03	01	45.805000	-119.015999	2.6	30.90
1985	02	27	45.961334	-119.906334	2.6	25.61
1985	02	10	45.704498	-119.634499	3.9	4.98
1985	01	31	45.954498	-118.836830	2.7	43.64
1985	01	31	45.964500	-119.902496	2.8	25.72
1985	01	28	45.967335	-119.911003	2.6	26.08
1986	12	08	45.976665	-118.953003	2.6	40.13
1986	11	10	45.199665	-119.997169	2.5	26.93
1986	03	02	46.311501	-119.783836	2.8	47.27
1986	02	05	46.253666	-119.616333	2.8	42.92
1986	02	04	46.043999	-118.809998	3.2	48.39
1986	01	29	46.254002	-119.615501	2.9	42.94
1986	01	16	46.251499	-119.617996	3.0	42.77
1987	09	29	45.176167	-120.061165	2.7	30.11
1987	09	08	45.191166	-120.071999	3.1	29.65
1988	11	21	45.269669	-119.944168	2.5	21.51
1988	10	19	45.139668	-119.138664	2.6	35.83
1988	09	29	45.849834	-120.259666	3.5	32.52
1988	08	18	45.223999	-120.099503	2.7	28.91
1988	08	06	45.435001	-119.882332	2.5	11.55
1988	07	23	45.260166	-120.132835	2.6	28.47
1988	07	11	45.244667	-120.142166	2.9	29.50
1988	03	17	46.132332	-119.782997	2.6	35.02
1988	02	28	45.571167	-119.884666	2.6	9.44
1988	02	20	45.216331	-120.105667	2.7	29.49
1988	02	14	45.577000	-120.149330	2.5	22.21
1988	02	07	45.355999	-119.621666	2.5	11.14
1988	02	03	46.223000	-119.734001	2.5	40.94
1989	12	28	45.481667	-119.489166	2.5	7.15
1989	08	18	45.274502	-119.982666	2.7	22.45
1989	03	27	45.815834	-120.261497	3.1	31.58
1989	02	21	45.738834	-120.030830	2.6	19.23

Year	Month	Day	Latitude	Longitude	Moment Magnitude	Miles From Site Boundary
1989	02	10	46.113834	-120.024498	2.6	37.58
1990	12	17	46.031834	-120.336502	2.5	42.67
1990	11	02	46.031834	-120.337997	2.5	42.73
1990	08	15	45.255501	-119.071663	2.6	32.76
1990	03	02	45.642666	-118.928337	2.8	31.78
1991	04	20	45.344501	-120.137833	2.8	25.38
1991	04	04	46.081833	-118.833504	2.5	49.26
1991	03	25	46.124832	-119.801003	2.5	34.67
1992	08	07	45.860332	-119.589500	3.9	15.89
1992	03	10	44.842999	-119.328331	2.5	49.01
1993	12	18	45.191833	-120.073166	2.9	29.65
1993	12	16	45.195835	-120.089836	3.0	29.98
1994	11	17	45.701168	-120.177498	2.7	25.29
1994	11	03	45.694000	-120.171837	2.6	24.92
1994	10	06	45.680668	-120.163498	2.7	24.38
1994	09	25	45.530499	-118.800331	2.6	38.07
1994	09	22	45.691502	-120.163330	2.9	24.49
1994	05	24	45.809834	-120.188499	2.6	28.20
1995	11	02	46.150002	-119.564331	3.1	35.91
1995	08	29	46.208168	-119.905502	3.1	41.47
1996	02	13	45.529999	-119.606499	2.9	0.64
1997	11	11	45.851002	-120.564667	2.8	46.11
1997	10	13	46.113998	-120.376167	3.1	47.90
1997	09	10	45.654335	-120.197998	2.7	25.61
1997	08	17	45.648335	-120.186333	2.8	24.94
1997	05	13	45.543167	-119.603333	2.7	0.45
1997	04	17	45.188499	-120.082001	3.2	30.11
1997	03	28	45.200500	-120.056168	2.6	28.66
1997	03	23	45.246334	-120.049332	3.1	26.09
1997	03	23	45.195168	-120.050835	3.1	28.77
1997	03	22	45.197334	-120.067169	3.9	29.17
1997	03	22	45.214001	-120.073669	2.7	28.53
1997	03	21	45.643501	-119.487999	2.5	5.56
1998	09	05	45.648167	-119.490837	2.9	5.65
1998	08	12	45.166332	-120.018501	2.8	29.42
1998	04	28	45.258835	-120.280998	2.7	34.46
1998	04	14	45.480331	-119.539497	2.6	5.34

Year	Month	Day	Latitude	Longitude	Moment Magnitude	Miles From Site Boundary
1998	04	14	45.275833	-120.288834	2.7	34.14
1998	03	01	46.317333	-119.881836	2.6	48.48
1998	02	03	45.813835	-120.192169	3.1	28.48
1999	12	21	45.754501	-120.000168	2.7	18.35
1999	09	04	45.177502	-120.077164	2.9	30.53
1999	08	31	45.186333	-120.090836	3.5	30.51
1999	07	24	45.928165	-119.213669	2.6	28.82
1999	03	21	45.180332	-120.032333	2.9	29.02
2000	12	29	45.886833	-119.708336	2.6	17.71
2000	08	17	45.312000	-120.041496	3.2	22.75
2000	08	03	45.208668	-120.073334	2.8	28.79
2000	07	28	45.170166	-120.135002	2.6	32.78
2000	02	29	45.189499	-120.118332	2.5	31.25
2000	02	21	45.682835	-120.124832	2.5	22.55
2000	02	15	45.687668	-120.079170	2.6	20.44
2000	02	01	45.186668	-120.117996	2.8	31.38
2000	02	01	45.189999	-120.112663	3.6	31.04
2000	01	30	45.181667	-120.109169	2.8	31.34
2000	01	30	45.183167	-120.102837	3.4	31.06
2000	01	30	45.193333	-120.111832	2.6	30.84
2000	01	30	45.197166	-120.124832	4.1	31.09
2000	01	13	45.690834	-119.934669	2.6	13.71
2000	01	05	45.704166	-120.049500	2.8	19.30
2001	06	18	45.189667	-120.110168	2.6	30.97
2001	06	15	45.201668	-120.107666	2.5	30.28
2002	12	30	46.272999	-119.402000	2.7	45.64
2002	10	25	45.184334	-120.065002	2.5	29.79
2002	10	25	45.192665	-120.093666	2.7	30.27
2002	10	14	45.131168	-120.011330	2.6	31.26
2002	01	31	45.685165	-120.166000	2.7	24.54
2003	12	01	45.421333	-118.857330	2.5	36.98
2003	09	12	45.420666	-118.842163	2.8	37.70
2003	06	01	45.194000	-120.113167	2.8	30.85
2003	05	18	45.193832	-120.120331	2.7	31.10
2003	05	16	45.627834	-120.274834	2.6	28.76
2003	01	24	46.261665	-119.385002	2.7	45.09
2003	01	17	45.680168	-120.177498	2.9	25.04

Year	Month	Day	Latitude	Longitude	Moment Magnitude	Miles From Site Boundary
2004	03	31	45.694168	-120.167168	2.6	24.70
2004	03	08	45.642334	-120.200500	2.5	25.49
2004	02	28	46.036335	-119.020500	3.3	40.70
2005	11	10	46.146332	-119.931000	2.5	37.80
2005	07	18	46.266998	-119.391167	2.5	45.37
2005	02	01	46.276833	-119.545998	2.5	44.71
2006	08	21	45.803501	-120.353333	2.6	35.39
2007	11	30	45.713833	-120.182167	2.8	25.69
2007	05	02	45.799999	-120.333664	2.6	34.42
2007	01	31	46.266998	-119.385330	2.5	45.44
2007	01	08	45.685501	-120.162003	2.7	24.36
2008	07	29	45.637001	-120.615334	2.7	45.14
2008	05	18	46.167667	-119.550163	3.7	37.19
2008	04	10	45.689167	-120.260002	2.5	29.09
2008	03	31	45.696835	-120.169670	2.8	24.86
2009	11	30	45.706165	-120.185165	2.6	25.72
2009	08	16	45.932999	-120.104332	2.8	29.80
2009	08	11	45.932999	-119.987999	2.6	26.07
2009	07	20	45.659000	-120.237503	2.5	27.53
2009	06	04	46.270168	-119.383331	2.5	45.68
2009	05	15	45.538334	-120.528831	2.7	40.51
2009	05	10	45.833000	-120.110168	2.5	25.69
2009	05	06	45.702332	-120.175499	2.6	25.21
2010	10	27	45.934666	-120.242165	2.5	34.93
2010	10	19	45.940498	-120.244835	2.6	35.28
2010	07	29	45.648499	-120.095337	2.7	20.77
2010	03	31	45.924667	-120.310501	2.5	37.24
2010	03	01	45.708668	-120.227837	2.5	27.78
2012	10	26	46.259666	-119.384003	2.5	44.97
2012	03	12	46.164833	-119.171165	2.6	43.02
2014	04	07	46.122334	-119.025497	2.7	44.80
2017	02	15	45.752834	-118.595337	2.9	48.92
2018	10	09	46.103168	-120.420670	2.9	48.96

The Ground Response Spectra Assessment (Attachment H-4) assessed the design response spectrum given in the 2010/2016/2022 IBC using the ASCE 7 Hazard Tool (ASCE 2023). Response spectra are provided for the maximum considered earthquake at the Facility location. For the

maximum considered earthquake, separate response spectra modified by the amplification factors for Site Class D are provided. Due to the presence of unconsolidated deposits in the site boundary, the Facility should be designed for the most conservative Site Class D.

7.2.3 Hazards Resulting from Seismic Events

Potential seismic hazards from a design seismic event for this Facility include seismic shaking or ground motion, fault displacement, instability from landslides or subsurface movement, and adverse effects from groundwater or surface water. These risks are anticipated to be low, as discussed below. Since the Facility is far from the Oregon coast, and not in a DOGAMI-defined tsunami evacuation zone (DOGAMI 2022), tsunami inundation is not considered a hazard.

7.2.4 Seismic Shaking or Ground Motion

The Facility will be designed to withstand the maximum risk-based design earthquake ground motions developed for the Facility site. The design seismic event has a 2,475-year recurrence interval. The State of Oregon has adopted the IBC 2021 code for structural design. Specifically, this is Section 1613 (Earthquake Loads) of the 2022 OSSC, which is in Chapter 16. Building codes are frequently updated; the IBC is updated every 3 years. The Applicant will design, engineer, and construct the Facility following the latest IBC, OSSC, and building codes adopted by the State of Oregon at the time of construction.

Based on geotechnical and geological information the soil/bedrock in the site boundary is Site Class D. As described in Section 7.2.1, Site Class D (very dense stiff soil) is appropriate for the proposed Facility.

Based on site-specific analyses, the original equipment manufacturer will provide the structural engineer with site-specific foundation loads and requirements. The structural engineer then completes the foundation analyses based on the design site-specific parameters. The geotechnical studies and analyses provide site-specific parameters, including but not limited to moisture content and density, soil/bedrock bearing capacity, bedrock depth, settlement characteristics, structural backfill characteristics, soil improvement (if required), and dynamic soil/bedrock properties, including shear modulus and Poisson's Ratio of the subgrade. The foundation design engineer will use these parameters to design a suitable foundation and verify that the foundation/soil interaction meets or exceeds the original equipment manufacturer's site-specific, minimum requirements.

7.2.5 Fault Rupture

Fault displacement is unlikely because there are no active faults within the site boundary, and the nearest known or potentially active faults are over 25 miles away (Figure H-2). Unknown faults could exist, or new fault ruptures could form during a significant seismic event, but geologic investigations indicate that the likelihood is very low.

7.2.6 Liquefaction

Liquefaction is when saturated and cohesionless soils are subjected to dynamic forces like intense or prolonged ground shaking and temporarily lose their strength and liquefy. Although alluvial fan deposits are located within most of the site boundary, these deposits are indicated to be unsaturated (Tetra Tech 2021). In addition, the soils in the site boundary are generally cohesive. Along with the relatively low seismic event potential, this indicates that soil liquefaction within the site boundary is unlikely. However, as discussed in Section 7.2, narrow areas along drainages/streams within the site boundary could have saturated alluvial deposits that would be susceptible to liquefaction. These areas within mapped floodplains would be avoided by Facility infrastructure.

7.2.7 Seismically Induced Landslides

While regional seismicity could potentially trigger landslides and mass wasting processes in the site boundary, the risk is considered low to moderate for expected shaking in a Cascadia 9.0 magnitude event (DOGAMI 2023c). Figure H-3 shows a large alluvial fan deposit covering much of the site boundary. More detailed discussion on the location and type of landslides is included in Section 8.1. Construction will avoid steep slopes. The site-specific geotechnical investigation will review evidence of active faults and landslides, which will inform the final Facility design and layout. More detailed discussion on the location and type of landslides is included in Section 8.1.

7.2.8 Subsidence

Subsidence is the sudden sinking or gradual downward settling of surface land, often caused by groundwater drawdown, compaction, tectonic movements, mining, or explosive activity. The alluvial fan deposits that are present on most of the site boundary are not saturated and groundwater is indicated to be at least 60 feet below ground surface (Tetra Tech 2021). In addition, Facility infrastructure would not be located along steep slopes in the area of the alluvial deposits. Subsidence due to a seismic event is highly unlikely in the site boundary as the bedrock is relatively shallow and the overlying soils unsaturated.

Subsidence may also occur due to introduction of moisture into desiccated collapsible soils present in loess or alluvial fan deposits. Drainage changes produced by grading and site development can induce moisture changes in the subsurface that can cause collapse of loess or alluvial fan material that is at a very low natural moisture content. Design of site drainage would prevent ponding or other concentration of surface water flows, especially near structures; and development over existing drainage ways would be avoided, since rerouting of surface water could induce subsidence.

7.2.9 Seismic Hazard Mitigation

The State of Oregon uses the 2021 IBC, with current amendments by the OSSC (State of Oregon 2022). Pertinent design codes relating to geology, seismicity, and near-surface soil are found in IBC

Chapter 16, Section 1613, with slight modifications for current State amendments. Facility infrastructure will be designed to meet or exceed all current design code standards. Substation equipment will meet all requirements in the latest version of IEEE 693. Although the region has only a moderate seismicity potential, the solar arrays are designed to resist seismic loads.

As discussed in Section 5.0, site-specific geotechnical exploration will provide data that will guide the proposed Facility infrastructure design to mitigate potential seismic-event hazards. The hazard of a surficial rupture along a fault is low, given the seismic history of the site displayed in geologic mapping, and the low probability that a fault rupture would actually displace the ground surface at the location of one of the transmission line structures. Because the Facility will be in a sparsely populated area, there is minimal human safety and environmental risk. Mitigation for potential fault rupture is not needed. No structures will be built on steep slopes prone to instability, thus avoiding potential impacts. Disaster resilience design guidelines are further described in Section 9.0.

8.0 Non-Seismic Geological Hazards

OAR 345-021-0010(1)(h)(F) An assessment of geology and soil-related hazards which could, in the absence of a seismic event, adversely affect or be aggravated by the construction or operation of the facility, in accordance with standard-of-practice methods and best practices, that address all issues relating to the consultation with the Oregon Department of Geology and Mineral Industries described in paragraph (B) of this subsection. An explanation of how the applicant will design, engineer, construct and operate the facility to adequately avoid dangers to human safety and the environment presented by these hazards, as well as:

(i) An explanation of how the applicant will design, engineer, construct and operate the facility to integrate disaster resilience design to ensure recovery of operations after major disasters; and

(ii) An assessment of future climate conditions for the expected life span of the proposed facility and the potential impacts of those conditions on the proposed facility.

Non-seismic geologic hazards in the Columbia Plateau region include landslides, volcanic eruptions, collapsing soils, and erosion. The area in the site boundary is relatively flat-lying basalt with an alluvium cover. The Facility will be constructed on the flat-lying part within the site boundary. It will avoid steep slopes and drainages that could experience landslides and soil creep. A discussion of potential non-seismic geologic hazards is presented below.

8.1 Landslides

In 2021, DOGAMI released an update to the Oregon Statewide Landslide Database (SLIDO-4.4; DOGAMI 2023c). SLIDO is a statewide database of known landslides compiled from published maps. The database includes landslides, debris flows, alluvial fans, and colluvium or talus. The primary sources of this historical landslide information are published geologic reports and geologic hazard studies by the USGS and DOGAMI. The SLIDO-4.4 landslide database was used to overlay landslide areas or landslide-related features on Figure H-3. SLIDO 4.4 indicates an alluvial fan covering much

of the site boundary (Figure H-3). As seen on Figure H-3, the proposed Facility is located entirely on a landslide area that includes the alluvial fan deposit. There are no mapped landslides in or adjacent to the site boundary. Alluvial fan deposits are an indication of debris flows resulting from large rainfall events and flooding. However, landslide susceptibility in the area of the alluvial fan is relatively low and limited to small drainages. Moderate to high landslide susceptibility is mapped along the major drainages/alluvial deposits located east and west of the alluvial fan deposits. Site construction will follow appropriate IBC regulation in construction and avoid steep slopes. In addition, a review of HazView mapping (DOGAMI 2023b) indicates that most of the site boundary is located in a low landslide area while moderate and high landslide hazard is indicated along the alluvial deposits east and west of the alluvial fan deposits.

Available DOGAMI LiDAR mapping was also reviewed for signs of potential landslides or debris flows (DOGAMI 2023). Potential areas of concern were identified along Sand Hollow Creek southeast of the intersection of State Highway 207 and Sand Hollow Road; and east of State Highway 207 south of the intersection with Grieb Lane. Although these areas are not expected to be used for the Facility, the areas will be further evaluated in the geotechnical studies as necessary.

Slopes within the vicinity of the site boundary range from approximately zero to 32 percent, with an average slope of 2.5 percent. If slope stability issues are identified in the final design geotechnical investigations, the structures will either be relocated during the micro-siting process, or remedial measures to improve slope stability will be implemented. In addition, a geotechnical assessment of the alluvial fan deposits will include the potential for future debris flows to impact the alluvial fan area.

8.2 Volcanic Activity

Volcanic activity in the Cascade Range is driven by the subduction of the Juan de Fuca Plate beneath the North American Plate. The closest volcanoes to the site boundary are Mount Hood and Mount Adams, each located approximately 100 miles away. Most of the potential volcanic hazard impacts would occur within a 50-mile radius of the erupting volcano. Depending on the prevailing wind direction at the time of the eruption and the source of the eruption, ash fallout in the region surrounding the Facility may occur. Because of the distance to the nearest volcanoes, the Facility's impacts from volcanic activity would be indirect and likely limited to ash fallout. In addition, the Facility is not located near any streams that would be subject to pyroclastic flows from a volcanic eruption from these close volcanoes. It is unlikely that there would be any adverse effects from volcanic activity on the construction or operation of the Facility.

8.3 Erosion

As discussed in Exhibit I, erosion can occur when soils are increasingly exposed to wind or water. Wind erosion is influenced by wind intensity, vegetative cover, soil texture, soil moisture, the grain size of the unprotected soil surface, topography, and the frequency of soil disturbance. Control measures will be implemented to mitigate wind erosion potential as identified in Exhibit I. Water erosion is primarily a function of soil type, vegetative cover, precipitation, and slope inclination. If

left unmitigated, erosion from rainfall would be a hazard during construction. The runoff potential and water erosion hazard for site soils range from low to high. Steeper slopes, especially those exceeding 25 percent (see Exhibit I), have higher erosion risk. U.S. Climate Data (2022) reports that the site area receives approximately 14 inches of rain per year. The erosion potential and available precipitation make site soils sensitive to water erosion during winter and spring, particularly on steep slopes. A draft Erosion and Sediment Control Plan (ESCP) has been developed to reduce the potential for soil erosion (see Attachment I-1 to Exhibit I). The ESCP includes structural and nonstructural Best Management Practices (BMP). Structural BMPs include the installation of silt fences or other physical controls to divert flows from exposed soils or otherwise limit runoff and pollutants from exposed areas. Nonstructural BMPs include the implementation of materials handling procedures, disposal requirements, and spill prevention methods.

The Applicant will apply for a National Pollutant Discharge Elimination System stormwater construction permit through the Your DEQ Online platform (the draft ESCP is an attachment to Exhibit I). In addition, Exhibit I contains a comprehensive list of mitigation measures to avoid wind and water erosion and soil impacts.

8.4 Flooding

Federal Emergency Management Agency (FEMA) National Flood Hazard data (FEMA 2022) were compared to the temporary and permanent disturbance areas in the site boundary to evaluate flood hazards. A portion of the site boundary is located within a Zone A (1 percent annual chance flood hazard) FEMA 100-year floodplain. This portion is along the narrow alluvial deposits of a major drainage/stream (Figures H-1 and H-3) The site boundary is not located within an identified 500-year floodplain (DOGAMI 2023b). No solar panels or permanent structures including transmission line structures for the proposed Facility would be placed within the 100-year floodplain. However, a collector line would cross a narrow 100-year floodplain (either overhead or buried); and an overhead transmission line would cross the Sand Hollow 100-year floodplain. The Applicant will obtain all necessary County and/or State permits in the case the collector line is buried within the 100-year floodplain.

Seasonal thunderstorms can result in concentrated stormwater runoff and localized flooding. The Facility will be designed and engineered to comply with zoning ordinances and building codes that establish flood protection standards for all construction to avoid dangers to the infrastructure, as well as human safety and the environment, including criteria to ensure that the foundation will withstand flood forces. The engineered access roads and drainages will direct stormwater runoff away from structures and into drainage ditches and culverts as required in the ESCP. Therefore, the risks and potential impacts to the Facility, human safety, and the environment from flood hazards are expected to be low.

8.5 Shrinking and Swelling Soils

Clayey soils are the most susceptible to shrinking and swelling. These soils were not found in the Facility soil data (see Exhibit I). The shrink-swell potential of the soils will be evaluated during the

site-specific geotechnical investigations and laboratory testing and analysis during the final Facility design phase. If shrinking or swelling soils are present at foundation locations or along road alignments, soil improvement will be necessary. Soil improvement can include reworking and compacting on-site soils, over-excavating soils with shrink-swell potential and replacing with compacted structural fill, constructing impermeable barriers to prevent saturation, or mixing soils to reduce the potential for shrinking and swelling.

8.6 Collapsing Soils

Soil properties will be evaluated by laboratory testing and analysis. Subsurface soil conditions, such as loess or collapsing soils, will be identified during the site-specific geotechnical investigation and will inform the final design of the Facility. If collapsible soils are found, collapse potential will be mitigated by construction techniques (over-excavating and replacing with structural fill, wetting, and compacting) during subgrade preparation.

9.0 Disaster Resilience

The State of Oregon uses IBC 2021, with current amendments by the OSSC and local agencies. Pertinent design codes related to geology, seismicity, and near-surface soils are contained in IBC Chapter 16, Section 1613, with slight modifications by the current amendments of the State of Oregon and local agencies. The Facility will be designed to meet or exceed the minimum standards required by these design codes. The Applicant acknowledges that DOGAMI encourages, but does not require, applicants to design and build for disaster resilience and future climate conditions using science, data, and community wisdom to protect against and adapt to risks. With this in mind, the Applicant has extensive experience building energy facilities and designing projects to withstand non-seismic geologic hazards from a structural perspective.

The Facility will be designed, engineered, and constructed to meet all current standards to adequately avoid potential dangers to human safety presented by seismic hazards. A qualified engineer will assess and review the seismic, geologic, and soil hazards associated with the Facility infrastructure construction. Construction requirements will be modified, as needed, based on the site-specific characterization of seismic, geologic, and soil hazards. Substation structures will be designed under the current version of the OSSC. Substation, transmission lines, and collector line equipment will be specified by the latest version of the Institute of Electrical and Electronics Engineers. The Facility infrastructure will be in sparsely populated areas; therefore, the risks to human safety and the environment due to seismic hazards will be minimal.

The Facility infrastructure will be designed, engineered, and constructed to meet or exceed all current standards. The Applicant proposes to design, engineer, and construct the Facility to avoid dangers to human safety-related and non-seismic hazards in many ways, including conducting site-specific geotechnical evaluations for the facilities (see Section 5.0). Typical mitigation measures for non-seismic hazards include: avoiding potential hazards, conducting subsurface investigations to characterize the soils to adequately plan and design appropriate mitigation measures, creating

detailed geologic hazard maps to aid in laying out facilities, providing warnings in the event of hazards, and purchasing insurance to cover the Facility in the event of hazards. Should Facility elements like access roads be damaged, they will be assessed and repairs made quickly to ensure recovery of operations after a major storm event.

10.0 Climate Change

The University of Washington conducted a study to assess climate vulnerability and adaptation in the Columbia River Plateau, where the Facility is located (Michalak et al. 2014). The study involved downscaling five climate models (CCM3, CGM3.1, GISS-ER, MIROC3.2, and Hadley). Climate projections were downscaled to approximately a 1-kilometer resolution for over 40 different direct (mean annual temperature/precipitation) and derived (number of growing-degree days, actual and potential evapotranspiration) climate variables (Michalak et al. 2014). The downscaling of the climate models for this area led to future projections of greater annual average and summer temperatures, and more severe storm events and wildfires, among other changes. These specific changes are expected to increase stress on power lines in the region.

Reinforcing the local electric grid with wind power and new transmission lines increases energy grid resilience in this part of Oregon. This reinforcement will be direct, by upgrading a system that is anticipated to experience higher loads under rising temperatures and related increases in power demand for summer cooling. It is also indirect, by supporting the delivery of power generated through various sources, minimizing the potential reduction in hydro power's role under future conditions. All aspects of this Facility support resiliency in the face of future climate change. The Facility will be designed to withstand extreme events as explained above in Section 9.0.

11.0 Conclusions

The risk of seismic hazards to human safety at the Facility is low. The Applicant reviewed regional geologic information and performed a site-specific desktop analysis of potential seismic, geologic, and soils hazards. In addition, a site-specific geotechnical investigation will be conducted, allowing the Applicant to design, engineer, and construct the Facility to the most current standards at the time of construction (Condition PRE-SS-01). The site-specific geotechnical investigation will enforce Conditions PRE-SS-01, PRE-SS-02, PRE-SS-03, and PRE-SS-04. This exhibit reflects input from DOGAMI and demonstrates that the Applicant can design, engineer, and construct the Facility to avoid dangers to human safety. The following supporting evidence is provided, with the remaining evidence to be provided before construction:

- The risk of seismic hazards to human safety at the Facility is considered low. The Applicant has adequately characterized the seismic hazard risk of the site under OAR 345-022-0020(1)(a) and considered seismic events and amplification for the Facility's site-specific subsurface profile. Facility components include solar arrays, transformers, generators, site access roads, transmission line structures, a battery energy storage system, six substations with equipment, and two switchyards. The O&M buildings will be staffed; however, the

probability of a large seismic event occurring while the O&M buildings are occupied is much lower than for a typical building or facility. This very low probability results in minimal risk to human safety. During preconstruction geotechnical investigations, any potentially active faults in the vicinity will be surveyed.

- The Applicant has demonstrated that the Facility can be designed, engineered, and constructed to avoid dangers to human safety and the environment in case of a design seismic event by adhering to the most recently updated IBC requirements, following OAR 345-022-0020(1)(b). These standards require that for the design seismic event, the factors of safety used in the Facility design exceed specific values. For example, in the case of slope design, a factor of safety of at least 1.1 is usually required during seismic stability evaluation. This safety factor is introduced to account for uncertainties in the design process and ensure that performance is acceptable. If slope stability safety factors are not met, the Facility components will either be relocated during the micrositing process or remedial measures to improve slope stability will be implemented. For slope stability, the remedial measures could include the use of ground improvement methods (such as retaining structures) to limit the movement to acceptable levels. Given the relatively low level of risk for the Facility, adherence to the IBC requirements will ensure that appropriate protection measures for human safety are taken.
- The Applicant has provided appropriate site-specific information and demonstrated (per OAR 345-022-0020(1)(c)) that the construction and operation of the Facility, in the absence of a seismic event, will not adversely affect or aggravate the geological or soil conditions of the Facility site or vicinity. The risks posed by non-seismic geologic hazards are generally considered low because the Facility can be designed to minimize or avoid the hazards of landslides and soil erosion. Landslide and slope stability issues will be identified during the final design and mitigated. Erosion hazard resulting from soil and wind action will be minimized by implementing erosion control plan. The Applicant will notify ODOE in the event that site investigations or trenching reveal conditions in the foundation rock different from what was evaluated, or if shear zones, artesian aquifers, deformations, or clastic dikes are found in the vicinity of the site.
- The Applicant has demonstrated that the Facility can be designed, engineered, and constructed to avoid human safety and environment impacts from geological and soil hazards, per OAR 345-022-0020(1)(d). Accordingly, given the relatively small risks these hazards pose to human safety, standard methods of practice (including implementation of the current IBC) will be adequate for the design and construction of the Facility. Site-specific studies will be conducted, additional geotechnical work will be completed once the final locations of the structures are selected, and adequate measures will be implemented to control erosion.
- Finally, the Applicant has assessed future climate conditions for the expected life span of the Facility, and the potential impacts of those conditions on the Facility.

Therefore, for the reasons outlines in this Exhibit, the construction and operation of the proposed Facility will comply with the structural standards as outlined in OAR 345-022-0020.

12.0 Submittal Requirements and Approval Standards

12.1 Submittal Requirements

Table H-3. Submittal Requirements Matrix

Requirement	Location
OAR 345-021-0010(1)(h) Information from reasonably available sources regarding the geological and soil stability within the analysis area, providing evidence to support findings by the Council as required by OAR 345-022-0020, including:	-
(A) A geologic report meeting the Oregon State Board of Geologist Examiners geologic report guidelines. Current guidelines must be determined based on consultation with the Oregon Department of Geology and Mineral Industries, as described in paragraph (B) of this subsection;	Section 3.0
(B) A summary of consultation with the Oregon Department of Geology and Mineral Industries regarding the appropriate methodology and scope of the seismic hazards and geology and soil-related hazards assessments, and the appropriate site-specific geotechnical work that must be performed before submitting the application for the Department to determine that the application is complete;	Section 4.0
(C) A description and schedule of site-specific geotechnical work that will be performed before construction for inclusion in the site certificate as conditions;	Section 5.0
(D) For all transmission lines, and for all pipelines that would carry explosive, flammable or hazardous materials, a description of locations along the proposed route where the applicant proposes to perform site specific geotechnical work, including but not limited to railroad crossings, major road crossings, river crossings, dead ends (for transmission lines), corners (for transmission lines), and portions of the proposed route where geologic reconnaissance and other site specific studies provide evidence of existing landslides, marginally stable slopes or potentially liquefiable soils that could be made unstable by the planned construction or experience impacts during the facility's operation;	Section 6.0
(E) An assessment of seismic hazards, in accordance with standard-of-practice methods and best practices, that addresses all issues relating to the consultation with the Oregon Department of Geology and Mineral Industries described in paragraph (B) of this subsection, and an explanation of how the applicant will design, engineer, construct, and operate the facility to avoid dangers to human safety and the environment from these seismic hazards. Furthermore, an explanation of how the applicant will design, engineer, construct and operate the facility to integrate disaster resilience design to ensure recovery of operations after major disasters. The applicant must include proposed design and engineering features, applicable construction codes, and any monitoring and emergency measures for seismic hazards, including tsunami safety measures if the site is located in the DOGAMI-defined tsunami evacuation zone; and	Section 7.0

Requirement	Location
(F) An assessment of geology and soil-related hazards which could, in the absence of a seismic event, adversely affect or be aggravated by the construction or operation of the facility, in accordance with standard-of-practice methods and best practices, that address all issues relating to the consultation with the Oregon Department of Geology and Mineral Industries described in paragraph (B) of this subsection. An explanation of how the applicant will design, engineer, construct and operate the facility to adequately avoid dangers to human safety and the environment presented by these hazards, as well as:	Section 8.0
(i) An explanation of how the applicant will design, engineer, construct and operate the facility to integrate disaster resilience design to ensure recovery of operations after major disasters; and	Section 8.0
(ii) An assessment of future climate conditions for the expected life span of the proposed facility and the potential impacts of those conditions on the proposed facility.	Section 8.0

12.2 Approval Standards

Table H-4. Approval Standard

Requirement	Location
OAR 345-022-0020 Structural Standard	
(1) Except for facilities described in sections (2) and (3), to issue a site certificate, the Council must find that:	-
(a) The applicant, through appropriate site-specific study, has adequately characterized the seismic hazard risk of the site; and	Section 7.0
(b) The applicant can design, engineer, and construct the facility to avoid dangers to human safety and the environment presented by seismic hazards affecting the site, as identified in subsection (1)(a);	Sections 7.0 and 8.0
(c) The applicant, through appropriate site-specific study, has adequately characterized the potential geological and soils hazards of the site and its vicinity that could, in the absence of a seismic event, adversely affect, or be aggravated by, the construction and operation of the proposed facility; and	Section 8.0
(d) The applicant can design, engineer and construct the facility to avoid dangers to human safety and the environment presented by the hazards identified in subsection (c).	Section 8.0
(2) The Council may not impose the Structural Standard in section (1) to approve or deny an application for an energy facility that would produce power from wind, solar or geothermal energy. However, the Council may, to the extent it determines appropriate, apply the requirements of section (1) to impose conditions on a site certificate issued for such a facility.	N/A
(3) The Council may not impose the Structural Standard in section (1) to deny an application for a special criteria facility under OAR 345-015-0310. However, the Council may, to the extent it determines appropriate, apply the requirements of section (1) to impose conditions on a site certificate issued for such a facility.	N/A

13.0 References

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




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Figures

Sunstone Solar Project

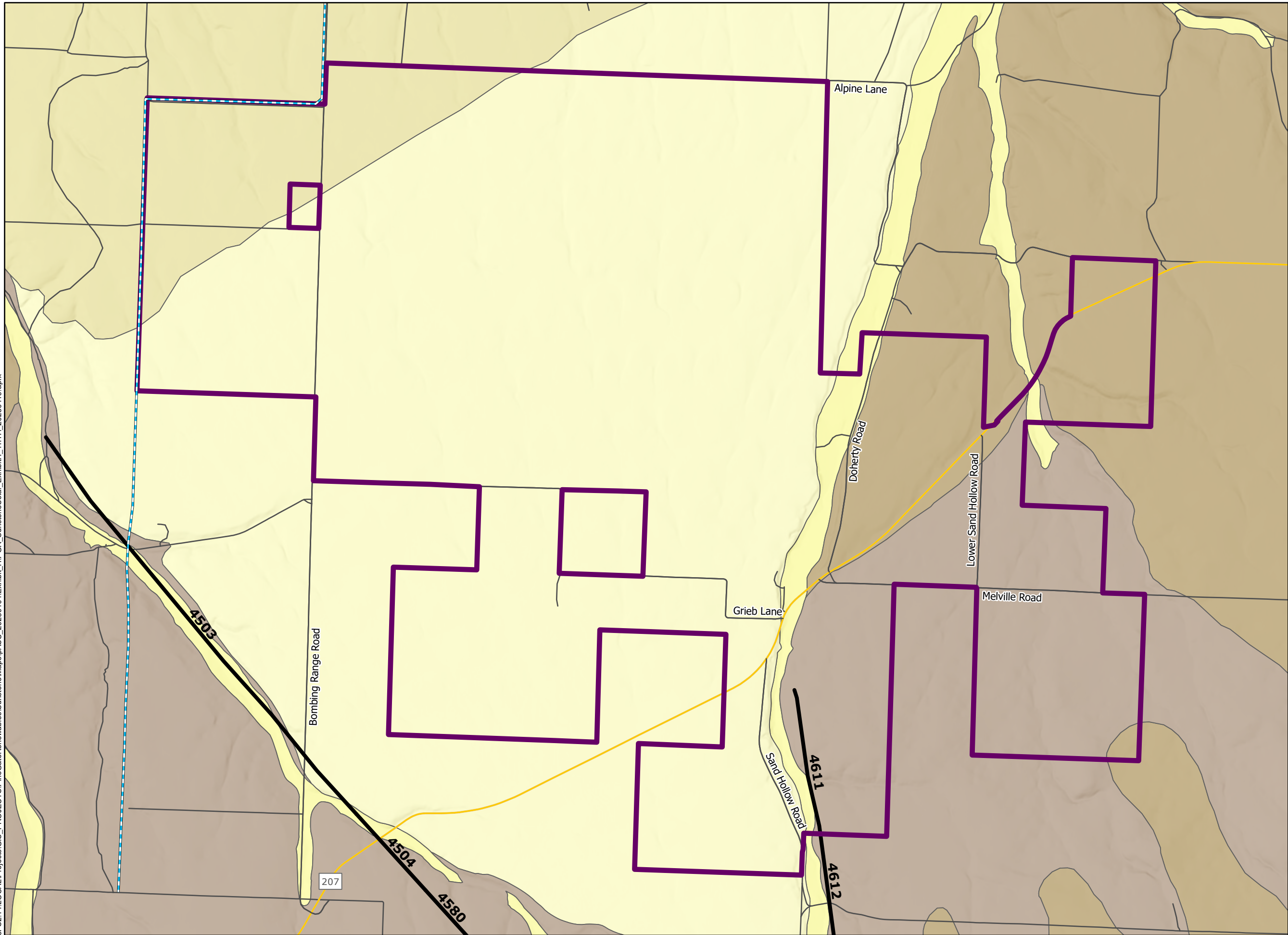
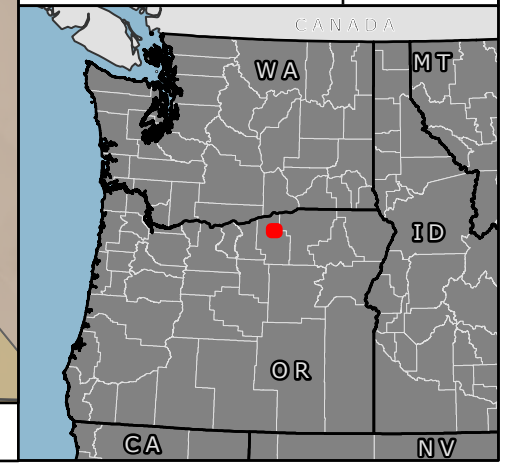
Figure H-1 Geologic Map

MORROW COUNTY, OR

-  Site Boundary
-  State Highway
-  Local Roads
-  Existing UEC Transmission Line
-  Fault Line (USGS SGMC)
- DOGAMI Surface Geology
 -  Qal - Alluvium
 -  Qf - Alluvial fan deposits
 -  Qmf - Missoula Flood deposits
 -  Tac - Alkali Canyon Formation
 -  Tf - Wanapum Basalt (Undifferentiated Frenchman Springs flows)



Reference Map



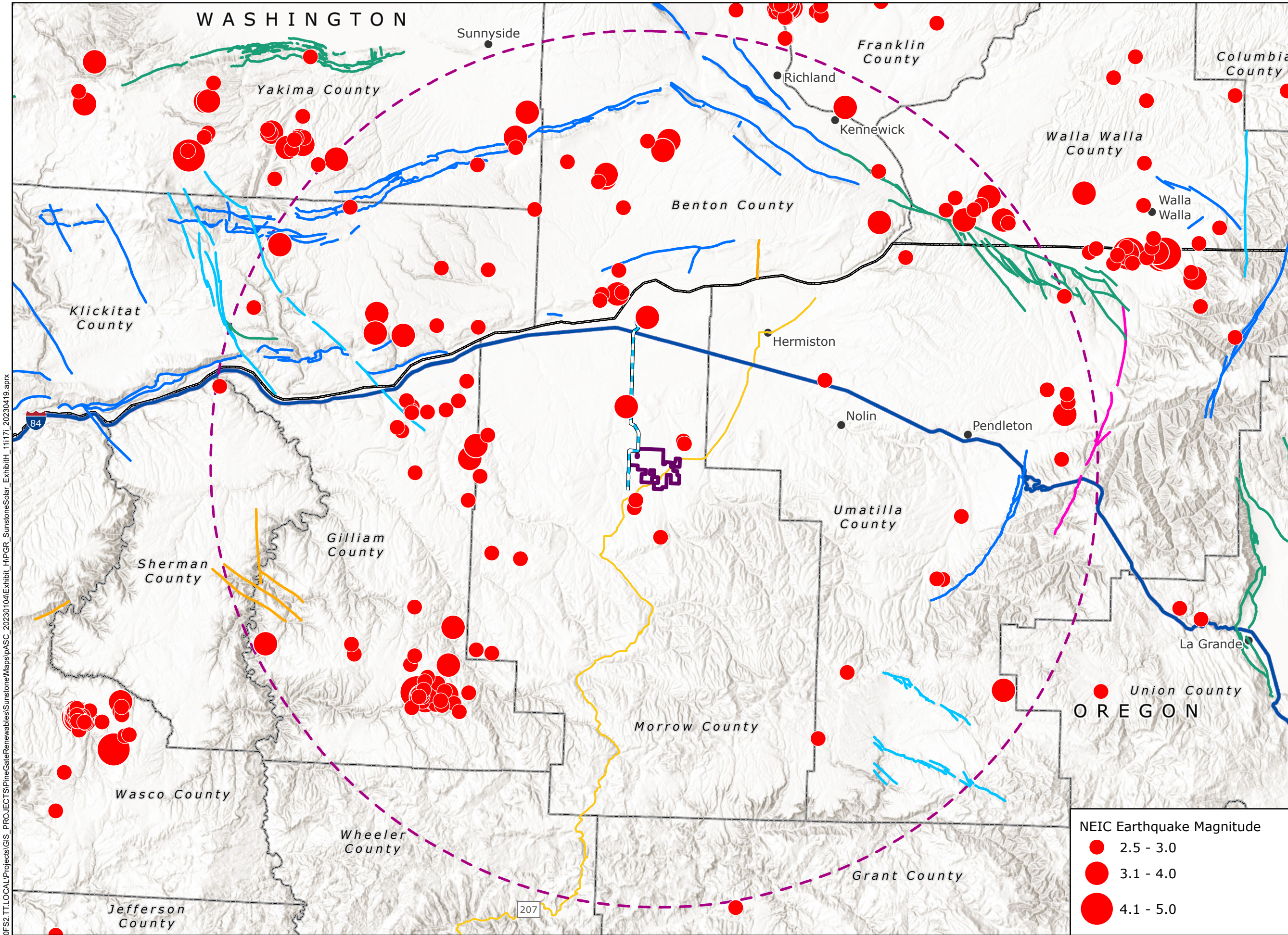
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WASHINGTON

Sunstone Solar Project

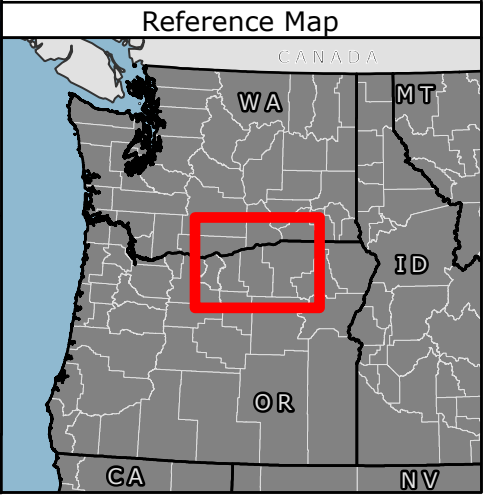
Figure H-2 Historical Seismicity and Potentially Active Faults

MORROW COUNTY, OR



- Site Boundary
- Analysis Area (50-mile Buffer)
- City/Town
- County Boundary
- State Boundary
- Interstate Highway
- State Highway
- Existing UEC Transmission Line
- USGS Quaternary Faults Age**
- Class B
- Late Quaternary
- Latest Quaternary
- Middle and Late Quaternary
- Undifferentiated Quaternary

- NEIC Earthquake Magnitude**
- 2.5 - 3.0
 - 3.1 - 4.0
 - 4.1 - 5.0



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NOT FOR CONSTRUCTION

Sunstone Solar Project

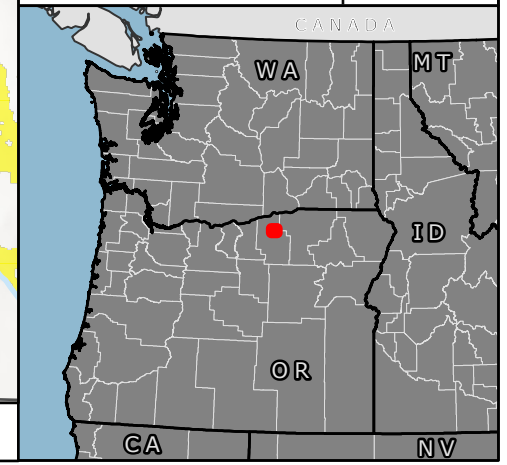
Figure H-3 Special Flood Hazard Areas

MORROW COUNTY, OR

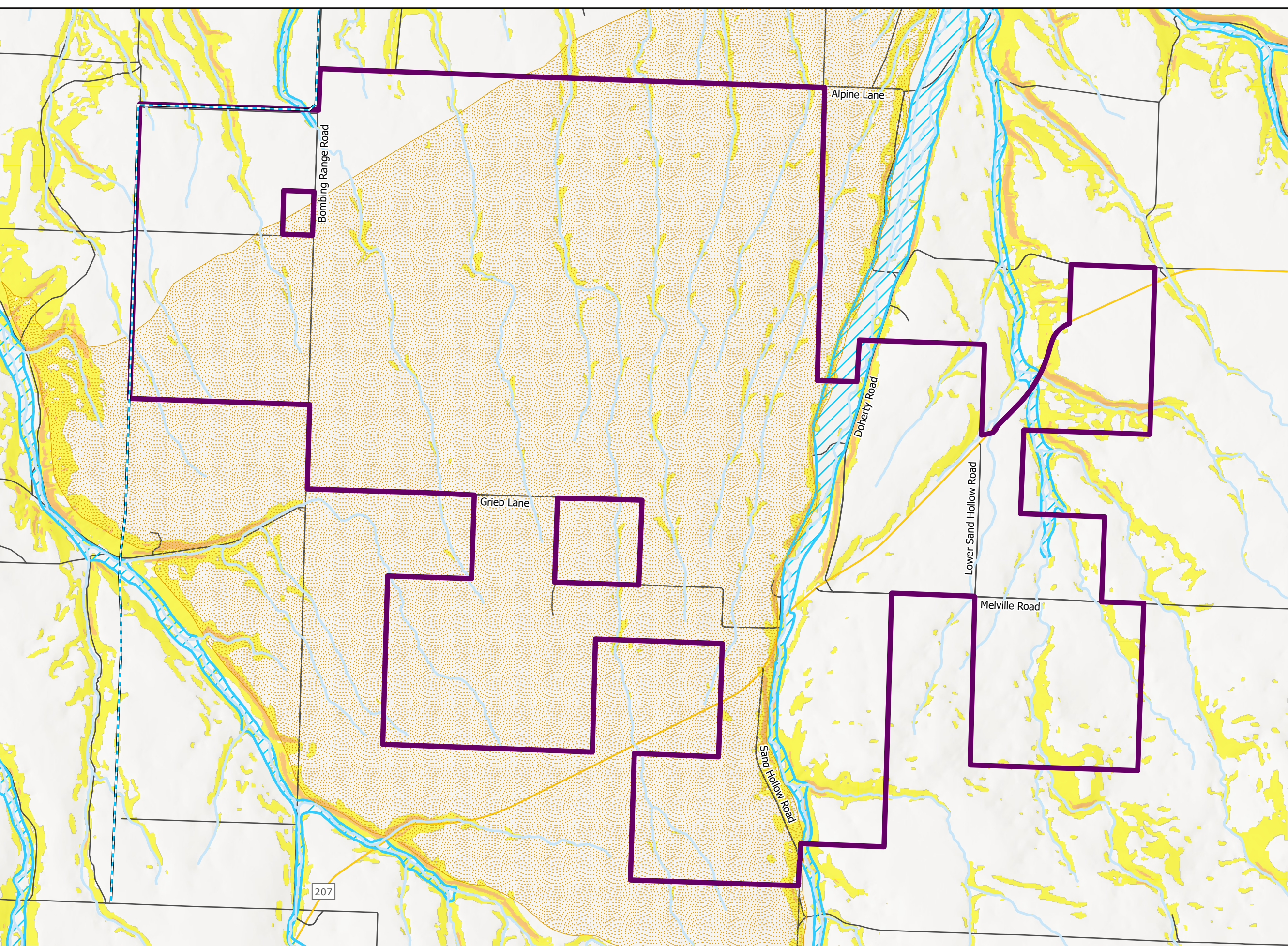
- Site Boundary
- State Highway
- Local Roads
- Existing UEC Transmission Line
- Stream/River (NHD)
- FEMA Special Flood Hazard Areas
 - Zone A (1% Annual Chance Flood Hazard)
- DOGAMI Landslide Deposits
 - Fan
- DOGAMI Landslide Susceptibility
 - Low
 - Moderate
 - High
 - Very High



Reference Map



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Attachment H-1. Evidence of Consultation with DOGAMI

Meeting Notes

Sunstone Solar DOGAMI Meeting/Conference Call

Virtual Meeting (via Teams)

April 26, 2023

11:30 a.m.–12:00 p.m. PST

Attendees: Jason McClaughry (DOGAMI)
Brown Hobson, Jim Morrison, and Brian Munger (Pine Gate Renewables)
Christopher Clark (ODOE)
Rachel Miller and Amy Bensted (Tetra Tech)

General introductions were made for the meeting participants.

Project Introduction Brown Hobson described the Sunstone Solar Project (Facility) background including the Facility size, type, and schedule. Jason McClaughry asked for a better idea of the location and a map was provided.

Geologic Hazards Rachel Miller described the general conclusions regarding the geologic hazards identified for the Facility including discussion of the draft Figures from Exhibit H of the Application for Site Certificate (ASC). Jason McClaughry indicated he wanted to know more about whether the mapped fault in the site boundary was active or not. Rachel Miller indicated this was flagged for further study in the geotechnical investigation. Jason McClaughry also requested that the analysis in Exhibit H and associated study of geological hazards look at the available DOGAMI light detection and ranging (LiDAR) data to further identify the possible presence of faults and landslides, particularly along the Sand Hollow alluvium and valley and at the intersection of Highway 207. Jason McClaughry noted that, other than the addition of LiDAR review, the existing analysis used the correct data and interpreted the data correctly and commented that the visuals reviewed on screen during the call (i.e., the draft Exhibit H figures) were great.

Timing of Geotechnical Studies Further discussion of the timing of geotechnical studies included Christopher Clark, Jim Morrison, and Jason McClaughry. In general, Christopher Clark indicated it was acceptable to provide the geotechnical studies in the pre-construction stages and these were not necessary for Exhibit H. However, Christopher Clark requested that the ASC include a scope and outline of the anticipated site-specific geotechnical studies that will be conducted prior to construction.

Attachment H-2. Probabilistic Seismic Hazard Deaggregation at 475-year Intervals

*** Deaggregation of Seismic Hazard at One Period of Spectral Acceleration ***

*** Data from Dynamic: Conterminous U.S. 2014 (update) (4.2.0) ****

PSHA Deaggregation. %contributions.

site: Test

longitude: 119.584°W

latitude: 45.612°E

imt: Peak Ground Acceleration

vs30 = 1150 m/s (Site class B)

return period: 475 yrs.

#This deaggregation corresponds to: Total

Summary statistics for PSHA PGA deaggregation, r=distance, ϵ =epsilon:

Deaggregation targets:

Return period: 475 yrs

Exceedance rate: 0.0021052632 yr⁻¹

PGA ground motion: 0.057924094 g

Recovered targets:

Return period: 483.23872 yrs

Exceedance rate: 0.0020693706 yr⁻¹

Totals:

Binned: 100 %

Residual: 0 %

Trace: 0.82 %

Mean (over all sources):

m: 6.47

r: 74.37 km

ϵ_0 : 0.18 σ

Mode (largest m-r bin):

m: 5.1

r: 11.97 km

ϵ_0 : -0.08 σ

Contribution: 5.17 %

Mode (largest m-r- ϵ_0 bin):

m: 5.1

r: 14.16 km

ϵ_0 : 0.24 σ

Contribution: 1.77 %

Discretization:

r: min = 0.0, max = 1000.0, Δ = 20.0 km

m: min = 4.4, max = 9.4, Δ = 0.2

ϵ : min = -3.0, max = 3.0, Δ = 0.5 σ

Epsilon keys:

ϵ_0 : [-∞ .. -2.5)

ϵ_1 : [-2.5 .. -2.0)

ϵ_2 : [-2.0 .. -1.5)

ϵ_3 : [-1.5 .. -1.0)

ϵ_4 : [-1.0 .. -0.5)

ϵ_5 : [-0.5 .. 0.0)

ϵ_6 : [0.0 .. 0.5)

ϵ_7 : [0.5 .. 1.0)

ϵ_8 : [1.0 .. 1.5)

ϵ_9 : [1.5 .. 2.0)
 ϵ_{10} : [2.0 .. 2.5)
 ϵ_{11} : [2.5 .. $+\infty$]

Closest Distance, rRup (km)				Magnitude (Mw)		ALL_ε	$\epsilon=(-\infty, -2.5)$	$\epsilon=[-2.5, -2)$	
$\epsilon=[-2, -1.5)$	$\epsilon=[-1.5, -1)$	$\epsilon=[-1, -0.5)$	$\epsilon=[-0.5, 0)$	$\epsilon=[0, 0.5)$	$\epsilon=[0.5, 1)$	$\epsilon=[1, 1.5)$	$\epsilon=[2, 2.5)$	$\epsilon=[2.5, \infty)$	
590	7.9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
570	7.9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
570	8.1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
550	7.9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
550	8.1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
530	7.9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
530	8.1	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.001	0.000					
510	7.9	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.001	0.000					
510	8.1	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.001	0.000					
510	8.3	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.001	0.000					
490	7.9	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.001	0.000					
490	8.1	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.002	0.000					
490	8.3	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.001	0.000					
490	8.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
470	7.9	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.001	0.000					
470	8.1	0.004	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.004	0.000					
470	8.3	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.001	0.001	0.000					
470	8.5	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.002	0.000	0.000					
450	7.9	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.002	0.000					
450	8.1	0.031	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.018	0.013	0.000					
450	8.3	0.028	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.028	0.000	0.000					
450	8.5	0.031	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.031	0.000	0.000					

430	7.9	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.002	0.000					
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0.000	0.000	0.006	0.000	0.000					
430	8.3	0.004	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.004	0.000	0.000					
430	8.5	0.009	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.009	0.000	0.000					
410	7.9	0.004	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.004	0.000	0.000					
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0.000	0.000	0.010	0.000	0.000					
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0.000	0.000	0.006	0.000	0.000					
410	8.5	0.020	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.010	0.009	0.000	0.001					
390	7.9	0.012	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.012	0.000	0.000					
390	8.1	0.028	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.028	0.000	0.000					
390	8.3	0.149	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.061	0.083	0.000	0.005					
390	8.5	0.182	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.168	0.003	0.005	0.006					
390	8.7	0.691	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.618	0.000	0.073	0.000					
390	9.1	0.432	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.351	0.000	0.080	0.000	0.001					
370	7.9	0.016	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.016	0.000	0.000					
370	8.1	0.040	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.012	0.026	0.000	0.001					
370	8.3	0.025	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.023	0.001	0.001	0.000					
370	8.5	0.264	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.235	0.000	0.029	0.000					
370	8.7	1.033	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.044	0.823	0.165	0.001	0.000					
370	8.9	1.039	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.841	0.000	0.198	0.000	0.000					
370	9.1	1.614	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1.176	0.420	0.000	0.000	0.017					
350	7.9	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.003	0.000	0.000					
350	8.1	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.006	0.001	0.000	0.000					
350	8.3	0.005	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.004	0.000	0.000	0.000					
350	8.5	0.020	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.017	0.002	0.001	0.000					

330	7.9	0.006	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.005	0.000	0.000	0.000					
330	8.1	0.013	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.012	0.000	0.001	0.000					
330	8.3	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.007	0.000	0.001	0.000					
330	8.5	0.108	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.073	0.014	0.021	0.000	0.000					
330	8.7	0.104	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.080	0.002	0.022	0.000	0.000					
330	8.9	0.129	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.091	0.037	0.000	0.000	0.001					
310	7.9	0.017	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.015	0.000	0.002	0.000					
310	8.1	0.040	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.035	0.003	0.003	0.000					
310	8.3	0.025	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.021	0.004	0.000	0.000					
310	8.5	0.173	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.127	0.016	0.030	0.000	0.001					
310	8.7	0.246	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.174	0.070	0.000	0.000	0.002					
310	8.9	1.331	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.881	0.431	0.000	0.019	0.000					
310	9.1	1.615	0.000	0.000	0.000	0.000	0.000	0.000	1.004
0.573	0.000	0.000	0.037	0.000					
310	9.3	2.240	0.000	0.000	0.000	0.000	0.000	0.000	1.232
0.885	0.000	0.124	0.000	0.000					
290	6.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
290	6.7	0.014	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.001	0.013					
290	6.9	0.055	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.046	0.009					
290	7.1	0.124	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.089	0.035	0.000					
290	7.3	0.016	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.008	0.008	0.000	0.000					
290	7.5	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.008	0.000	0.000	0.000					
290	7.9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
270	6.5	0.004	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.004					
270	6.7	0.029	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.015	0.014					
270	6.9	0.094	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.022	0.072	0.000					
270	7.1	0.231	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.018	0.195	0.013	0.005					

270	7.3	0.044	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.035	0.007	0.002	0.001					
270	7.5	0.033	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.012	0.019	0.001	0.002	0.000					
270	7.7	0.006	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.005	0.000	0.001	0.000	0.000					
270	7.9	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.001	0.000	0.000	0.000	0.000					
250	6.3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
250	6.5	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.001	0.007					
250	6.7	0.037	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.035	0.002					
250	6.9	0.098	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.077	0.019	0.002					
250	7.1	0.229	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.111	0.102	0.011	0.005					
250	7.3	0.041	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.009	0.028	0.002	0.003	0.000					
250	7.5	0.033	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.025	0.003	0.004	0.000	0.000					
250	7.7	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.002
0.004	0.002	0.000	0.000	0.000					
250	7.9	0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.004
0.005	0.001	0.000	0.000	0.000					
230	6.3	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.001					
230	6.5	0.009	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.007	0.002					
230	6.7	0.032	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.014	0.018	0.001					
230	6.9	0.083	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.014	0.061	0.006	0.003					
230	7.1	0.176	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.146	0.013	0.016	0.000					
230	7.3	0.031	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.021	0.005	0.005	0.000	0.000					
230	7.5	0.023	0.000	0.000	0.000	0.000	0.000	0.000	0.005
0.013	0.004	0.001	0.000	0.000					
230	7.7	0.006	0.000	0.000	0.000	0.000	0.000	0.000	0.003
0.002	0.001	0.000	0.000	0.000					
230	7.9	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.006
0.001	0.000	0.000	0.000	0.000					
210	6.1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
210	6.3	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.001					
210	6.5	0.006	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.005	0.000					

210	6.7	0.016	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.014	0.001	0.001					
210	6.9	0.041	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.025	0.010	0.005	0.000					
210	7.1	0.092	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.045	0.031	0.016	0.001	0.000					
210	7.3	0.019	0.000	0.000	0.000	0.000	0.000	0.000	0.003
0.011	0.003	0.001	0.000	0.001					
210	7.5	0.017	0.000	0.000	0.000	0.000	0.000	0.000	0.009
0.003	0.002	0.000	0.001	0.002					
210	7.7	0.005	0.000	0.000	0.000	0.000	0.000	0.000	0.002
0.001	0.000	0.000	0.001	0.000					
210	7.9	0.005	0.000	0.000	0.000	0.000	0.000	0.002	0.002
0.000	0.000	0.000	0.000	0.000					
190	5.9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
190	6.1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
190	6.3	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.001	0.000					
190	6.5	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.001	0.001	0.000					
190	6.7	0.005	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.002	0.003	0.001	0.000					
190	6.9	0.011	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.001	0.007	0.002	0.000	0.000					
190	7.1	0.022	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.015	0.005	0.001	0.000	0.001					
190	7.3	0.014	0.000	0.000	0.000	0.000	0.000	0.000	0.002
0.001	0.000	0.000	0.003	0.008					
190	7.5	0.016	0.000	0.000	0.000	0.000	0.000	0.001	0.002
0.001	0.000	0.000	0.008	0.004					
190	7.7	0.005	0.000	0.000	0.000	0.000	0.000	0.001	0.000
0.000	0.000	0.002	0.002	0.000					
190	7.9	0.004	0.000	0.000	0.000	0.000	0.000	0.002	0.000
0.000	0.000	0.001	0.000	0.000					
170	5.7	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
170	5.9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
170	6.1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
170	6.3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
170	6.5	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
170	6.7	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.001	0.000	0.000	0.000					
170	6.9	0.004	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.002	0.001	0.000	0.000	0.002					

170	7.1	0.020	0.000	0.000	0.000	0.000	0.000	0.000	0.002
0.002	0.001	0.000	0.003	0.012					
170	7.3	0.039	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.003	0.027	0.008					
170	7.5	0.035	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.012	0.021	0.001					
170	7.7	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.002	0.005	0.001	0.000					
170	7.9	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.002	0.001	0.000	0.000					
150	5.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
150	5.7	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
150	5.9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
150	6.1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
150	6.3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
150	6.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
150	6.7	0.004	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.004					
150	6.9	0.020	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.004	0.015					
150	7.1	0.049	0.000	0.000	0.000	0.000	0.000	0.000	0.001
0.000	0.000	0.002	0.038	0.008					
150	7.3	0.082	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.038	0.042	0.001					
150	7.5	0.065	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.011	0.046	0.009	0.000					
150	7.7	0.013	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.001	0.007	0.005	0.000	0.000					
150	7.9	0.005	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.002	0.002	0.001	0.000	0.000					
130	5.1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
130	5.3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
130	5.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
130	5.7	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
130	5.9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
130	6.1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
130	6.3	0.004	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.004					

130	6.5	0.021	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.004	0.017					
130	6.7	0.049	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.029	0.020					
130	6.9	0.094	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.013	0.078	0.003					
130	7.1	0.136	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.093	0.043	0.000					
130	7.3	0.173	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.047	0.122	0.004	0.000					
130	7.5	0.109	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.003	0.071	0.036	0.000	0.000					
130	7.7	0.018	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.007	0.010	0.001	0.000	0.000					
130	7.9	0.006	0.000	0.000	0.000	0.000	0.000	0.000	0.001
0.004	0.001	0.000	0.000	0.000					
110	5.1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
110	5.3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
110	5.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
110	5.7	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
110	5.9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
110	6.1	0.011	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.011					
110	6.3	0.054	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.029	0.025					
110	6.5	0.094	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.013	0.070	0.012					
110	6.7	0.127	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.050	0.075	0.002					
110	6.9	0.179	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.007	0.145	0.026	0.000					
110	7.1	0.266	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.115	0.149	0.002	0.000					
110	7.3	0.351	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.032	0.270	0.050	0.000	0.000					
110	7.5	0.228	0.000	0.000	0.000	0.000	0.000	0.000	0.001
0.104	0.120	0.004	0.000	0.000					
110	7.7	0.033	0.000	0.000	0.000	0.000	0.000	0.000	0.006
0.022	0.005	0.000	0.000	0.000					
110	7.9	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.004
0.003	0.000	0.000	0.000	0.000					
90	5.5	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.002					
90	5.7	0.015	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.015					

90	5.9	0.050	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.016	0.033					
90	6.1	0.130	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.008	0.097	0.025					
90	6.3	0.251	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.006	0.127	0.114	0.003					
90	6.5	0.321	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.072	0.197	0.052	0.000					
90	6.7	0.369	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.151	0.208	0.010	0.000					
90	6.9	0.467	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.053	0.332	0.081	0.000	0.000					
90	7.1	0.518	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.217	0.296	0.005	0.000	0.000					
90	7.3	0.509	0.000	0.000	0.000	0.000	0.000	0.000	0.037
0.395	0.077	0.000	0.000	0.000					
90	7.5	0.260	0.000	0.000	0.000	0.000	0.000	0.000	0.097
0.155	0.008	0.000	0.000	0.000					
90	7.7	0.035	0.000	0.000	0.000	0.000	0.000	0.004	0.024
0.007	0.000	0.000	0.000	0.000					
90	7.9	0.009	0.000	0.000	0.000	0.000	0.000	0.004	0.005
0.000	0.000	0.000	0.000	0.000					
70	5.1	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.008					
70	5.3	0.031	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.003	0.028					
70	5.5	0.115	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.067	0.048					
70	5.7	0.214	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.020	0.157	0.037					
70	5.9	0.332	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.150	0.174	0.008					
70	6.1	0.549	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.088	0.383	0.078	0.000					
70	6.3	0.765	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.040	0.451	0.268	0.007	0.000					
70	6.5	0.899	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.253	0.533	0.114	0.000	0.000					
70	6.7	0.891	0.000	0.000	0.000	0.000	0.000	0.000	0.016
0.481	0.373	0.021	0.000	0.000					
70	6.9	0.831	0.000	0.000	0.000	0.000	0.000	0.000	0.101
0.587	0.143	0.000	0.000	0.000					
70	7.1	0.922	0.000	0.000	0.000	0.000	0.000	0.000	0.441
0.468	0.013	0.000	0.000	0.000					
70	7.3	0.919	0.000	0.000	0.000	0.000	0.000	0.106	0.687
0.127	0.000	0.000	0.000	0.000					
70	7.5	0.460	0.000	0.000	0.000	0.000	0.000	0.164	0.280
0.016	0.000	0.000	0.000	0.000					
70	7.7	0.076	0.000	0.000	0.000	0.000	0.008	0.057	0.011
0.000	0.000	0.000	0.000	0.000					

70	7.9	0.013	0.000	0.000	0.000	0.000	0.004	0.009	0.001
0.000	0.000	0.000	0.000	0.000					
50	5.1	0.270	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.051	0.151	0.068					
50	5.3	0.505	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.208	0.257	0.040					
50	5.5	0.896	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.164	0.514	0.206	0.012					
50	5.7	1.104	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.008	0.504	0.517	0.075	0.000					
50	5.9	1.259	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.152	0.752	0.347	0.009	0.000					
50	6.1	1.642	0.000	0.000	0.000	0.000	0.000	0.000	0.035
0.806	0.738	0.062	0.000	0.000					
50	6.3	1.749	0.000	0.000	0.000	0.000	0.000	0.000	0.391
1.052	0.305	0.001	0.000	0.000					
50	6.5	1.698	0.000	0.000	0.000	0.000	0.000	0.103	0.719
0.774	0.103	0.000	0.000	0.000					
50	6.7	1.502	0.000	0.000	0.000	0.000	0.000	0.116	0.822
0.557	0.008	0.000	0.000	0.000					
50	6.9	1.382	0.000	0.000	0.000	0.000	0.000	0.314	0.872
0.195	0.000	0.000	0.000	0.000					
50	7.1	1.231	0.000	0.000	0.000	0.000	0.033	0.581	0.612
0.006	0.000	0.000	0.000	0.000					
50	7.3	0.942	0.000	0.000	0.000	0.000	0.155	0.637	0.150
0.000	0.000	0.000	0.000	0.000					
50	7.5	0.456	0.000	0.000	0.000	0.006	0.169	0.264	0.018
0.000	0.000	0.000	0.000	0.000					
50	7.7	0.052	0.000	0.000	0.000	0.005	0.033	0.013	0.000
0.000	0.000	0.000	0.000	0.000					
50	7.9	0.014	0.000	0.000	0.000	0.004	0.009	0.001	0.000
0.000	0.000	0.000	0.000	0.000					
30	5.1	2.480	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.575	1.087	0.640	0.175	0.002					
30	5.3	3.167	0.000	0.000	0.000	0.000	0.000	0.000	0.248
1.380	1.045	0.469	0.025	0.000					
30	5.5	3.836	0.000	0.000	0.000	0.000	0.000	0.136	1.222
1.469	0.904	0.104	0.000	0.000					
30	5.7	3.670	0.000	0.000	0.000	0.000	0.000	0.518	1.444
1.264	0.434	0.010	0.000	0.000					
30	5.9	3.316	0.000	0.000	0.000	0.000	0.036	0.922	1.246
1.026	0.087	0.000	0.000	0.000					
30	6.1	3.194	0.000	0.000	0.000	0.000	0.345	1.180	1.299
0.370	0.000	0.000	0.000	0.000					
30	6.3	2.946	0.000	0.000	0.000	0.133	0.787	1.134	0.851
0.041	0.000	0.000	0.000	0.000					
30	6.5	2.274	0.000	0.000	0.000	0.198	0.702	0.991	0.382
0.000	0.000	0.000	0.000	0.000					
30	6.7	1.858	0.000	0.000	0.019	0.210	0.696	0.757	0.176
0.000	0.000	0.000	0.000	0.000					

30	6.9	1.596	0.000	0.000	0.053	0.305	0.713	0.521	0.003
0.000	0.000	0.000	0.000	0.000					
30	7.1	1.346	0.000	0.001	0.097	0.436	0.638	0.174	0.000
0.000	0.000	0.000	0.000	0.000					
30	7.3	1.172	0.000	0.015	0.179	0.470	0.477	0.031	0.000
0.000	0.000	0.000	0.000	0.000					
30	7.5	0.558	0.000	0.015	0.112	0.270	0.161	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
30	7.7	0.051	0.000	0.003	0.014	0.028	0.006	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
30	7.9	0.010	0.000	0.001	0.004	0.005	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
10	5.1	5.166	0.000	0.000	0.000	0.606	0.528	1.349	1.774
0.850	0.061	0.000	0.000	0.000					
10	5.3	4.709	0.000	0.072	0.201	0.476	0.922	1.627	1.278
0.134	0.000	0.000	0.000	0.000					
10	5.5	4.013	0.051	0.131	0.347	0.696	1.188	1.286	0.314
0.000	0.000	0.000	0.000	0.000					
10	5.7	3.036	0.077	0.077	0.293	0.653	1.216	0.679	0.041
0.000	0.000	0.000	0.000	0.000					
10	5.9	2.232	0.088	0.139	0.245	0.647	0.923	0.190	0.000
0.000	0.000	0.000	0.000	0.000					
10	6.1	2.313	0.098	0.283	0.551	0.737	0.629	0.016	0.000
0.000	0.000	0.000	0.000	0.000					
10	6.3	1.707	0.173	0.329	0.480	0.503	0.222	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
10	6.5	1.437	0.204	0.297	0.409	0.388	0.140	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
10	6.7	1.153	0.200	0.250	0.352	0.302	0.050	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
10	6.9	0.882	0.175	0.237	0.305	0.165	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
10	7.1	0.657	0.153	0.219	0.230	0.055	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
10	7.3	0.473	0.129	0.176	0.154	0.015	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
10	7.5	0.193	0.062	0.076	0.053	0.001	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
10	7.7	0.015	0.006	0.006	0.003	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
10	7.9	0.003	0.001	0.001	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					

Principal Sources (faults, subduction, random seismicity having > 3% contribution

WUSmap_2014_fixSm.ch.in (opt):

Percent Contributed: 11.36

Distance (km): 33.731396

Magnitude: 6.0941281

Epsilon (mean values): 0.040829534

noPuget_2014_fixSm.ch.in (opt):

Percent Contributed: 11.36

Distance (km): 33.726627
Magnitude: 6.0940845
Epsilon (mean values): 0.040752476
WUSmap_2014_fixSm.gr.in (opt):
Percent Contributed: 11.19
Distance (km): 33.221067
Magnitude: 6.0823826
Epsilon (mean values): 0.03043332
noPuget_2014_fixSm.gr.in (opt):
Percent Contributed: 11.19
Distance (km): 33.216237
Magnitude: 6.0823382
Epsilon (mean values): 0.030355177
noPuget_2014_adSm.ch.in (opt):
Percent Contributed: 7.51
Distance (km): 33.626143
Magnitude: 6.0904636
Epsilon (mean values): 0.031044193
WUSmap_2014_adSm.ch.in (opt):
Percent Contributed: 7.5
Distance (km): 33.614214
Magnitude: 6.0902727
Epsilon (mean values): 0.030747251
noPuget_2014_adSm.gr.in (opt):
Percent Contributed: 7.42
Distance (km): 33.190486
Magnitude: 6.0802856
Epsilon (mean values): 0.022058579
WUSmap_2014_adSm.gr.in (opt):
Percent Contributed: 7.41
Distance (km): 33.179622
Magnitude: 6.080114
Epsilon (mean values): 0.021784775
sub0_ch_bot.in:
Percent Contributed: 5.01
Distance (km): 308.17316
Magnitude: 9.1179324
Epsilon (mean values): 0.60824831
Cascadia Megathrust - whole CSZ Characteristic:
Percent Contributed: 5.01
Distance (km): 308.17316
Magnitude: 9.1179324
Epsilon (mean values): 0.60824831
Azimuth: 285.86185
Latitude: 46.3
Longitude: -123.4132
sub0_ch_mid.in:
Percent Contributed: 3.5
Distance (km): 361.47413
Magnitude: 8.9265389

Epsilon (mean values): 1.0494554
Cascadia Megathrust - whole CSZ Characteristic:
Percent Contributed: 3.5
Distance (km): 361.47413
Magnitude: 8.9265389
Epsilon (mean values): 1.0494554
Azimuth: 283.89391
Latitude: 46.3
Longitude: -124.13677
WUSmap_2014_fixSm_M8.in (opt):
Percent Contributed: 2.78
Distance (km): 36.551315
Magnitude: 6.2170595
Epsilon (mean values): 0.016136895
noPuget_2014_fixSm_M8.in (opt):
Percent Contributed: 2.78
Distance (km): 36.521154
Magnitude: 6.2167664
Epsilon (mean values): 0.015741702
noPuget_2014_adSm_M8.in (opt):
Percent Contributed: 1.84
Distance (km): 36.544824
Magnitude: 6.2141811
Epsilon (mean values): 0.0088216986
WUSmap_2014_adSm_M8.in (opt):
Percent Contributed: 1.84
Distance (km): 36.542938
Magnitude: 6.2140045
Epsilon (mean values): 0.0086772313
PSHA Deaggregation. %contributions.
site: Test
longitude: 119.584°W
latitude: 45.612°E
imt: Peak Ground Acceleration
vs30 = 1150 m/s (Site class B)
return period: 475 yrs.
#This deaggregation corresponds to: GMM: Abrahamson, Silva & Kamai (2014)
Summary statistics for PSHA PGA deaggregation, r=distance, ε=epsilon:
Deaggregation targets:
Return period: 475 yrs
Exceedance rate: 0.0021052632 yr⁻¹
PGA ground motion: 0.057924094 g
Recovered targets:
Return period: 483.23872 yrs
Exceedance rate: 0.0020693706 yr⁻¹
Totals:
Binned: 22.65 %
Residual: 0 %
Trace: 0.2 %
Mean (over all sources):

m: 6.06
 r: 34.65 km
 ϵ_0 : 0.17 σ
 Mode (largest m-r bin):
 m: 5.1
 r: 12.38 km
 ϵ_0 : -0.25 σ
 Contribution: 1.58 %

Mode (largest m-r- ϵ_0 bin):
 m: 5.1
 r: 16.11 km
 ϵ_0 : 0.22 σ
 Contribution: 0.6 %

Discretization:
 r: min = 0.0, max = 1000.0, Δ = 20.0 km
 m: min = 4.4, max = 9.4, Δ = 0.2
 ϵ : min = -3.0, max = 3.0, Δ = 0.5 σ

Epsilon keys:
 ϵ_0 : [- ∞ .. -2.5)
 ϵ_1 : [-2.5 .. -2.0)
 ϵ_2 : [-2.0 .. -1.5)
 ϵ_3 : [-1.5 .. -1.0)
 ϵ_4 : [-1.0 .. -0.5)
 ϵ_5 : [-0.5 .. 0.0)
 ϵ_6 : [0.0 .. 0.5)
 ϵ_7 : [0.5 .. 1.0)
 ϵ_8 : [1.0 .. 1.5)
 ϵ_9 : [1.5 .. 2.0)
 ϵ_{10} : [2.0 .. 2.5)
 ϵ_{11} : [2.5 .. + ∞]

Closest Distance, rRup (km)		Magnitude (Mw)		ALL_ ϵ	$\epsilon = (-\infty, -2.5)$	$\epsilon = [-2.5, -2)$
$\epsilon = [-2, -1.5)$	$\epsilon = [-1.5, -1)$	$\epsilon = [-1, -0.5)$	$\epsilon = [1.5, 2)$	$\epsilon = [-0.5, 0)$	$\epsilon = [0, 0.5)$	$\epsilon = [2.5, \infty)$
290	7.9	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000
270	7.9	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000
250	7.7	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000
250	7.9	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000
230	7.5	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000
230	7.7	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000
230	7.9	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000
210	7.3	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000
210	7.5	0.001	0.000	0.000	0.000	0.000

0.024	0.224	0.089	0.000	0.000					
50	6.1	0.427	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.224	0.198	0.006	0.000	0.000					
50	6.3	0.453	0.000	0.000	0.000	0.000	0.000	0.000	0.089
0.306	0.058	0.000	0.000	0.000					
50	6.5	0.412	0.000	0.000	0.000	0.000	0.000	0.000	0.170
0.223	0.020	0.000	0.000	0.000					
50	6.7	0.353	0.000	0.000	0.000	0.000	0.000	0.000	0.177
0.176	0.000	0.000	0.000	0.000					
50	6.9	0.329	0.000	0.000	0.000	0.000	0.000	0.046	0.225
0.059	0.000	0.000	0.000	0.000					
50	7.1	0.295	0.000	0.000	0.000	0.000	0.000	0.134	0.161
0.000	0.000	0.000	0.000	0.000					
50	7.3	0.229	0.000	0.000	0.000	0.000	0.016	0.164	0.048
0.000	0.000	0.000	0.000	0.000					
50	7.5	0.112	0.000	0.000	0.000	0.000	0.035	0.077	0.000
0.000	0.000	0.000	0.000	0.000					
50	7.7	0.013	0.000	0.000	0.000	0.000	0.010	0.003	0.000
0.000	0.000	0.000	0.000	0.000					
50	7.9	0.003	0.000	0.000	0.000	0.001	0.003	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
30	5.1	1.091	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.476	0.393	0.223	0.000	0.000					
30	5.3	1.036	0.000	0.000	0.000	0.000	0.000	0.000	0.118
0.523	0.327	0.069	0.000	0.000					
30	5.5	0.970	0.000	0.000	0.000	0.000	0.000	0.000	0.274
0.412	0.284	0.000	0.000	0.000					
30	5.7	0.900	0.000	0.000	0.000	0.000	0.000	0.053	0.409
0.330	0.107	0.000	0.000	0.000					
30	5.9	0.817	0.000	0.000	0.000	0.000	0.000	0.174	0.322
0.320	0.000	0.000	0.000	0.000					
30	6.1	0.782	0.000	0.000	0.000	0.000	0.012	0.318	0.357
0.096	0.000	0.000	0.000	0.000					
30	6.3	0.722	0.000	0.000	0.000	0.000	0.183	0.299	0.240
0.000	0.000	0.000	0.000	0.000					
30	6.5	0.540	0.000	0.000	0.000	0.000	0.144	0.285	0.110
0.000	0.000	0.000	0.000	0.000					
30	6.7	0.436	0.000	0.000	0.000	0.013	0.144	0.217	0.063
0.000	0.000	0.000	0.000	0.000					
30	6.9	0.381	0.000	0.000	0.000	0.035	0.179	0.167	0.000
0.000	0.000	0.000	0.000	0.000					
30	7.1	0.325	0.000	0.000	0.000	0.087	0.170	0.067	0.000
0.000	0.000	0.000	0.000	0.000					
30	7.3	0.285	0.000	0.000	0.007	0.119	0.154	0.005	0.000
0.000	0.000	0.000	0.000	0.000					
30	7.5	0.137	0.000	0.000	0.013	0.072	0.052	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
30	7.7	0.013	0.000	0.000	0.002	0.008	0.002	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
30	7.9	0.003	0.000	0.000	0.001	0.002	0.000	0.000	0.000

0.000	0.000	0.000	0.000	0.000					
10	5.1	1.579	0.000	0.000	0.000	0.212	0.172	0.549	0.603
0.044	0.000	0.000	0.000	0.000					
10	5.3	1.234	0.000	0.000	0.046	0.144	0.290	0.432	0.321
0.000	0.000	0.000	0.000	0.000					
10	5.5	0.953	0.000	0.000	0.107	0.076	0.289	0.391	0.090
0.000	0.000	0.000	0.000	0.000					
10	5.7	0.721	0.000	0.000	0.075	0.109	0.289	0.241	0.006
0.000	0.000	0.000	0.000	0.000					
10	5.9	0.537	0.000	0.053	0.032	0.112	0.263	0.077	0.000
0.000	0.000	0.000	0.000	0.000					
10	6.1	0.561	0.000	0.060	0.107	0.174	0.210	0.010	0.000
0.000	0.000	0.000	0.000	0.000					
10	6.3	0.418	0.016	0.069	0.093	0.157	0.082	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
10	6.5	0.351	0.023	0.049	0.100	0.124	0.055	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
10	6.7	0.282	0.020	0.052	0.083	0.105	0.022	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
10	6.9	0.218	0.020	0.050	0.072	0.076	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
10	7.1	0.162	0.020	0.041	0.082	0.019	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
10	7.3	0.117	0.015	0.036	0.062	0.005	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
10	7.5	0.048	0.008	0.017	0.023	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
10	7.7	0.004	0.001	0.002	0.001	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
10	7.9	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					

Principal Sources (faults, subduction, random seismicity having > 3% contribution

WUSmap_2014_fixSm.ch.in (opt):

Percent Contributed: 2.98
 Distance (km): 33.721347
 Magnitude: 6.0305928
 Epsilon (mean values): 0.16173871

noPuget_2014_fixSm.ch.in (opt):

Percent Contributed: 2.98
 Distance (km): 33.716938
 Magnitude: 6.0305499
 Epsilon (mean values): 0.1616693

WUSmap_2014_fixSm.gr.in (opt):

Percent Contributed: 2.95
 Distance (km): 33.262401
 Magnitude: 6.0191202
 Epsilon (mean values): 0.15327482

noPuget_2014_fixSm.gr.in (opt):

Percent Contributed: 2.95
 Distance (km): 33.257927

Magnitude: 6.0190765
Epsilon (mean values): 0.15320435
noPuget_2014_adSm.ch.in (opt):
Percent Contributed: 1.97
Distance (km): 33.608509
Magnitude: 6.0274334
Epsilon (mean values): 0.15148666
WUSmap_2014_adSm.ch.in (opt):
Percent Contributed: 1.97
Distance (km): 33.596792
Magnitude: 6.0272432
Epsilon (mean values): 0.15120591
noPuget_2014_adSm.gr.in (opt):
Percent Contributed: 1.95
Distance (km): 33.216343
Magnitude: 6.0174902
Epsilon (mean values): 0.1441608
WUSmap_2014_adSm.gr.in (opt):
Percent Contributed: 1.95
Distance (km): 33.205615
Magnitude: 6.0173193
Epsilon (mean values): 0.14389977
PSHA Deaggregation. %contributions.
site: Test
longitude: 119.584°W
latitude: 45.612°E
imt: Peak Ground Acceleration
vs30 = 1150 m/s (Site class B)
return period: 475 yrs.
#This deaggregation corresponds to: GMM: Boore, Stewart, Seyhan & Atkinson (2014)
Summary statistics for PSHA PGA deaggregation, r=distance, ε=epsilon:
Deaggregation targets:
Return period: 475 yrs
Exceedance rate: 0.0021052632 yr⁻¹
PGA ground motion: 0.057924094 g
Recovered targets:
Return period: 483.23872 yrs
Exceedance rate: 0.0020693706 yr⁻¹
Totals:
Binned: 21.82 %
Residual: 0 %
Trace: 0.23 %
Mean (over all sources):
m: 6.06
r: 33.13 km
ε₀: 0.06 σ
Mode (largest m-r bin):
m: 5.5
r: 28.3 km
ε₀: 0.52 σ

Contribution: 1.28 %
 Mode (largest m-r- ϵ_0 bin):
 m: 5.5
 r: 24.33 km
 ϵ_0 : 0.25 σ
 Contribution: 0.55 %

Discretization:
 r: min = 0.0, max = 1000.0, Δ = 20.0 km
 m: min = 4.4, max = 9.4, Δ = 0.2
 ϵ : min = -3.0, max = 3.0, Δ = 0.5 σ

Epsilon keys:
 ϵ_0 : [- ∞ .. -2.5)
 ϵ_1 : [-2.5 .. -2.0)
 ϵ_2 : [-2.0 .. -1.5)
 ϵ_3 : [-1.5 .. -1.0)
 ϵ_4 : [-1.0 .. -0.5)
 ϵ_5 : [-0.5 .. 0.0)
 ϵ_6 : [0.0 .. 0.5)
 ϵ_7 : [0.5 .. 1.0)
 ϵ_8 : [1.0 .. 1.5)
 ϵ_9 : [1.5 .. 2.0)
 ϵ_{10} : [2.0 .. 2.5)
 ϵ_{11} : [2.5 .. + ∞)

Closest Distance, rRup (km)		Magnitude (Mw)		ALL_ ϵ	$\epsilon=(-\infty, -2.5)$	$\epsilon=[-2.5, -2)$
$\epsilon=[-2, -1.5)$	$\epsilon=[-1.5, -1)$	$\epsilon=[-1, -0.5)$	$\epsilon=[-0.5, 0)$	$\epsilon=[-0.5, 0)$	$\epsilon=[0, 0.5)$	$\epsilon=[0, 0.5)$
$\epsilon=[0.5, 1)$	$\epsilon=[1, 1.5)$	$\epsilon=[1.5, 2)$	$\epsilon=[2, 2.5)$	$\epsilon=[2, 2.5)$	$\epsilon=[2.5, \infty)$	$\epsilon=[2.5, \infty)$
270	7.9	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000
250	7.7	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000
250	7.9	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000
230	7.5	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000
230	7.7	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000
230	7.9	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000
210	7.3	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000
210	7.5	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000
210	7.7	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000
210	7.9	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000
190	7.1	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000
190	7.3	0.001	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.001	0.000	0.000

190	7.5	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.001					
190	7.7	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
190	7.9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
170	6.9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
170	7.1	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.002					
170	7.3	0.005	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.002	0.003					
170	7.5	0.004	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.004	0.000					
170	7.7	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.001	0.000					
170	7.9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
150	6.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
150	6.7	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.001					
150	6.9	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.003					
150	7.1	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.005	0.003					
150	7.3	0.012	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.012	0.000					
150	7.5	0.009	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.004	0.005	0.000					
150	7.7	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.002	0.000	0.000					
150	7.9	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
130	6.3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
130	6.5	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.003					
130	6.7	0.009	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.002	0.007					
130	6.9	0.016	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.015	0.002					
130	7.1	0.022	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.005	0.017	0.000					
130	7.3	0.026	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.022	0.004	0.000					
130	7.5	0.016	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.016	0.000	0.000					
130	7.7	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.002	0.001	0.000	0.000					

70	5.3	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.008					
70	5.5	0.056	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.042	0.014					
70	5.7	0.088	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.018	0.064	0.006					
70	5.9	0.110	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.066	0.044	0.000					
70	6.1	0.141	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.013	0.109	0.019	0.000					
70	6.3	0.157	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.073	0.084	0.000	0.000					
70	6.5	0.183	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.002	0.143	0.038	0.000	0.000					
70	6.7	0.194	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.075	0.115	0.003	0.000	0.000					
70	6.9	0.174	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.117	0.057	0.000	0.000	0.000					
70	7.1	0.192	0.000	0.000	0.000	0.000	0.000	0.000	0.038
0.145	0.010	0.000	0.000	0.000					
70	7.3	0.190	0.000	0.000	0.000	0.000	0.000	0.000	0.118
0.072	0.000	0.000	0.000	0.000					
70	7.5	0.095	0.000	0.000	0.000	0.000	0.000	0.004	0.075
0.016	0.000	0.000	0.000	0.000					
70	7.7	0.016	0.000	0.000	0.000	0.000	0.000	0.010	0.006
0.000	0.000	0.000	0.000	0.000					
70	7.9	0.003	0.000	0.000	0.000	0.000	0.000	0.002	0.001
0.000	0.000	0.000	0.000	0.000					
50	5.1	0.040	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.022	0.018					
50	5.3	0.153	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.069	0.073	0.010					
50	5.5	0.366	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.135	0.194	0.037	0.000					
50	5.7	0.409	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.008	0.271	0.130	0.000	0.000					
50	5.9	0.399	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.090	0.237	0.072	0.000	0.000					
50	6.1	0.432	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.233	0.196	0.002	0.000	0.000					
50	6.3	0.394	0.000	0.000	0.000	0.000	0.000	0.000	0.022
0.271	0.100	0.000	0.000	0.000					
50	6.5	0.380	0.000	0.000	0.000	0.000	0.000	0.000	0.126
0.232	0.022	0.000	0.000	0.000					
50	6.7	0.349	0.000	0.000	0.000	0.000	0.000	0.000	0.177
0.173	0.000	0.000	0.000	0.000					
50	6.9	0.313	0.000	0.000	0.000	0.000	0.000	0.026	0.205
0.081	0.000	0.000	0.000	0.000					
50	7.1	0.276	0.000	0.000	0.000	0.000	0.000	0.090	0.183
0.003	0.000	0.000	0.000	0.000					

10	6.3	0.419	0.029	0.075	0.108	0.126	0.082	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
10	6.5	0.351	0.029	0.057	0.101	0.106	0.058	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
10	6.7	0.283	0.024	0.052	0.082	0.102	0.024	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
10	6.9	0.217	0.017	0.054	0.073	0.073	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
10	7.1	0.162	0.014	0.044	0.069	0.035	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
10	7.3	0.117	0.014	0.035	0.058	0.010	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
10	7.5	0.048	0.007	0.015	0.024	0.001	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
10	7.7	0.004	0.001	0.001	0.001	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
10	7.9	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					

Principal Sources (faults, subduction, random seismicity having > 3% contribution
WUSmap_2014_fixSm.ch.in (opt):

Percent Contributed: 2.88
Distance (km): 32.387524
Magnitude: 6.0393547
Epsilon (mean values): 0.060587921

noPuget_2014_fixSm.ch.in (opt):

Percent Contributed: 2.88
Distance (km): 32.385465
Magnitude: 6.0393343
Epsilon (mean values): 0.060550976

WUSmap_2014_fixSm.gr.in (opt):

Percent Contributed: 2.85
Distance (km): 31.960555
Magnitude: 6.0289398
Epsilon (mean values): 0.050798985

noPuget_2014_fixSm.gr.in (opt):

Percent Contributed: 2.85
Distance (km): 31.958467
Magnitude: 6.0289191
Epsilon (mean values): 0.050761493

noPuget_2014_adSm.ch.in (opt):

Percent Contributed: 1.91
Distance (km): 32.213853
Magnitude: 6.0355209
Epsilon (mean values): 0.047837131

WUSmap_2014_adSm.ch.in (opt):

Percent Contributed: 1.9
Distance (km): 32.204129
Magnitude: 6.0353662
Epsilon (mean values): 0.04755383

noPuget_2014_adSm.gr.in (opt):

Percent Contributed: 1.89
Distance (km): 31.846571
Magnitude: 6.0264412
Epsilon (mean values): 0.039317648
WUSmap_2014_adSm.gr.in (opt):
Percent Contributed: 1.88
Distance (km): 31.837731
Magnitude: 6.0263038
Epsilon (mean values): 0.039055221
PSHA Deaggregation. %contributions.
site: Test
longitude: 119.584°W
latitude: 45.612°E
imt: Peak Ground Acceleration
vs30 = 1150 m/s (Site class B)
return period: 475 yrs.
#This deaggregation corresponds to: GMM: Campbell & Bozorgnia (2014)
Summary statistics for PSHA PGA deaggregation, r=distance, ϵ =epsilon:
Deaggregation targets:
Return period: 475 yrs
Exceedance rate: 0.0021052632 yr⁻¹
PGA ground motion: 0.057924094 g
Recovered targets:
Return period: 483.23872 yrs
Exceedance rate: 0.0020693706 yr⁻¹
Totals:
Binned: 23.24 %
Residual: 0 %
Trace: 0.19 %
Mean (over all sources):
m: 6.19
r: 36.47 km
 ϵ_0 : -0.07 σ
Mode (largest m-r bin):
m: 5.3
r: 12.47 km
 ϵ_0 : -0.39 σ
Contribution: 1.18 %
Mode (largest m-r- ϵ_0 bin):
m: 5.3
r: 13.47 km
 ϵ_0 : -0.22 σ
Contribution: 0.39 %
Discretization:
r: min = 0.0, max = 1000.0, Δ = 20.0 km
m: min = 4.4, max = 9.4, Δ = 0.2
 ϵ : min = -3.0, max = 3.0, Δ = 0.5 σ
Epsilon keys:
 ϵ_0 : [- ∞ .. -2.5)
 ϵ_1 : [-2.5 .. -2.0)

0.023	0.035	0.000	0.000	0.000					
110	7.7	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.007	0.001	0.000	0.000	0.000					
110	7.9	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.001
0.001	0.000	0.000	0.000	0.000					
90	5.7	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.001					
90	5.9	0.012	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.004	0.008					
90	6.1	0.045	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.008	0.033	0.004					
90	6.3	0.102	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.006	0.077	0.020	0.000					
90	6.5	0.141	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.072	0.070	0.000	0.000					
90	6.7	0.149	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.115	0.034	0.000	0.000					
90	6.9	0.166	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.053	0.113	0.000	0.000	0.000					
90	7.1	0.165	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.119	0.046	0.000	0.000	0.000					
90	7.3	0.147	0.000	0.000	0.000	0.000	0.000	0.000	0.018
0.125	0.005	0.000	0.000	0.000					
90	7.5	0.071	0.000	0.000	0.000	0.000	0.000	0.000	0.030
0.040	0.000	0.000	0.000	0.000					
90	7.7	0.009	0.000	0.000	0.000	0.000	0.000	0.000	0.008
0.001	0.000	0.000	0.000	0.000					
90	7.9	0.002	0.000	0.000	0.000	0.000	0.000	0.001	0.002
0.000	0.000	0.000	0.000	0.000					
70	5.3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
70	5.5	0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.001	0.009					
70	5.7	0.039	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.028	0.011					
70	5.9	0.086	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.037	0.048	0.002					
70	6.1	0.181	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.053	0.119	0.009	0.000					
70	6.3	0.287	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.040	0.217	0.029	0.000	0.000					
70	6.5	0.355	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.216	0.139	0.000	0.000	0.000					
70	6.7	0.325	0.000	0.000	0.000	0.000	0.000	0.000	0.016
0.273	0.036	0.000	0.000	0.000					
70	6.9	0.274	0.000	0.000	0.000	0.000	0.000	0.000	0.098
0.176	0.000	0.000	0.000	0.000					
70	7.1	0.278	0.000	0.000	0.000	0.000	0.000	0.000	0.207
0.071	0.000	0.000	0.000	0.000					
70	7.3	0.257	0.000	0.000	0.000	0.000	0.000	0.047	0.210

0.000	0.000	0.000	0.000	0.000					
70	7.5	0.124	0.000	0.000	0.000	0.000	0.000	0.058	0.065
0.000	0.000	0.000	0.000	0.000					
70	7.7	0.019	0.000	0.000	0.000	0.000	0.000	0.018	0.001
0.000	0.000	0.000	0.000	0.000					
70	7.9	0.003	0.000	0.000	0.000	0.000	0.001	0.003	0.000
0.000	0.000	0.000	0.000	0.000					
50	5.1	0.017	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.005	0.012					
50	5.3	0.062	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.004	0.044	0.014					
50	5.5	0.156	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.001	0.097	0.054	0.005					
50	5.7	0.243	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.088	0.128	0.027	0.000					
50	5.9	0.332	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.038	0.210	0.084	0.000	0.000					
50	6.1	0.501	0.000	0.000	0.000	0.000	0.000	0.000	0.035
0.286	0.178	0.001	0.000	0.000					
50	6.3	0.577	0.000	0.000	0.000	0.000	0.000	0.000	0.274
0.288	0.015	0.000	0.000	0.000					
50	6.5	0.578	0.000	0.000	0.000	0.000	0.000	0.103	0.347
0.129	0.000	0.000	0.000	0.000					
50	6.7	0.484	0.000	0.000	0.000	0.000	0.000	0.116	0.339
0.030	0.000	0.000	0.000	0.000					
50	6.9	0.412	0.000	0.000	0.000	0.000	0.000	0.184	0.228
0.000	0.000	0.000	0.000	0.000					
50	7.1	0.344	0.000	0.000	0.000	0.000	0.016	0.208	0.121
0.000	0.000	0.000	0.000	0.000					
50	7.3	0.251	0.000	0.000	0.000	0.000	0.063	0.183	0.004
0.000	0.000	0.000	0.000	0.000					
50	7.5	0.118	0.000	0.000	0.000	0.000	0.051	0.068	0.000
0.000	0.000	0.000	0.000	0.000					
50	7.7	0.013	0.000	0.000	0.000	0.000	0.010	0.003	0.000
0.000	0.000	0.000	0.000	0.000					
50	7.9	0.003	0.000	0.000	0.000	0.001	0.003	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
30	5.1	0.416	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.028	0.201	0.123	0.061	0.002					
30	5.3	0.658	0.000	0.000	0.000	0.000	0.000	0.000	0.036
0.256	0.220	0.133	0.013	0.000					
30	5.5	0.938	0.000	0.000	0.000	0.000	0.000	0.021	0.329
0.315	0.245	0.028	0.000	0.000					
30	5.7	0.966	0.000	0.000	0.000	0.000	0.000	0.199	0.379
0.271	0.117	0.000	0.000	0.000					
30	5.9	0.916	0.000	0.000	0.000	0.000	0.032	0.331	0.297
0.256	0.000	0.000	0.000	0.000					
30	6.1	0.919	0.000	0.000	0.000	0.000	0.243	0.317	0.324
0.035	0.000	0.000	0.000	0.000					
30	6.3	0.862	0.000	0.000	0.000	0.125	0.260	0.372	0.104

0.000	0.000	0.000	0.000	0.000					
30	6.5	0.669	0.000	0.000	0.000	0.159	0.284	0.226	0.000
0.000	0.000	0.000	0.000	0.000					
30	6.7	0.530	0.000	0.000	0.017	0.114	0.242	0.157	0.000
0.000	0.000	0.000	0.000	0.000					
30	6.9	0.435	0.000	0.000	0.031	0.143	0.203	0.057	0.000
0.000	0.000	0.000	0.000	0.000					
30	7.1	0.355	0.000	0.000	0.047	0.140	0.168	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
30	7.3	0.303	0.000	0.001	0.077	0.128	0.097	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
30	7.5	0.142	0.000	0.004	0.040	0.068	0.030	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
30	7.7	0.013	0.000	0.000	0.004	0.008	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
30	7.9	0.003	0.000	0.000	0.001	0.001	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
10	5.1	1.178	0.000	0.000	0.000	0.091	0.151	0.293	0.348
0.273	0.021	0.000	0.000	0.000					
10	5.3	1.179	0.000	0.000	0.070	0.122	0.267	0.387	0.296
0.037	0.000	0.000	0.000	0.000					
10	5.5	1.067	0.000	0.070	0.071	0.268	0.320	0.303	0.035
0.000	0.000	0.000	0.000	0.000					
10	5.7	0.808	0.000	0.077	0.071	0.227	0.354	0.080	0.000
0.000	0.000	0.000	0.000	0.000					
10	5.9	0.590	0.034	0.053	0.097	0.213	0.193	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
10	6.1	0.606	0.061	0.110	0.169	0.198	0.068	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
10	6.3	0.444	0.094	0.109	0.144	0.096	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
10	6.5	0.373	0.103	0.102	0.117	0.051	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
10	6.7	0.297	0.099	0.072	0.111	0.016	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
10	6.9	0.225	0.079	0.066	0.080	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
10	7.1	0.166	0.060	0.070	0.037	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
10	7.3	0.120	0.047	0.054	0.019	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
10	7.5	0.049	0.020	0.025	0.004	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
10	7.7	0.004	0.002	0.002	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
10	7.9	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					

Principal Sources (faults, subduction, random seismicity having > 3% contribution
WUSmap_2014_fixSm.ch.in (opt):

Percent Contributed: 3.05

Distance (km): 35.439462
Magnitude: 6.1566829
Epsilon (mean values): -0.080217671
noPuget_2014_fixSm.ch.in (opt):
Percent Contributed: 3.05
Distance (km): 35.43703
Magnitude: 6.1566602
Epsilon (mean values): -0.080263733
WUSmap_2014_fixSm.gr.in (opt):
Percent Contributed: 2.99
Distance (km): 34.831519
Magnitude: 6.1438504
Epsilon (mean values): -0.092833353
noPuget_2014_fixSm.gr.in (opt):
Percent Contributed: 2.99
Distance (km): 34.829036
Magnitude: 6.143827
Epsilon (mean values): -0.092880386
noPuget_2014_adSm.ch.in (opt):
Percent Contributed: 2.01
Distance (km): 35.342543
Magnitude: 6.152641
Epsilon (mean values): -0.088448385
WUSmap_2014_adSm.ch.in (opt):
Percent Contributed: 2.01
Distance (km): 35.328933
Magnitude: 6.1524403
Epsilon (mean values): -0.08879372
noPuget_2014_adSm.gr.in (opt):
Percent Contributed: 1.98
Distance (km): 34.824281
Magnitude: 6.1415222
Epsilon (mean values): -0.099298072
WUSmap_2014_adSm.gr.in (opt):
Percent Contributed: 1.98
Distance (km): 34.81194
Magnitude: 6.1413423
Epsilon (mean values): -0.099615311

PSHA Deaggregation. %contributions.

site: Test

longitude: 119.584°W

latitude: 45.612°E

imt: Peak Ground Acceleration

vs30 = 1150 m/s (Site class B)

return period: 475 yrs.

#This deaggregation corresponds to: GMM: Chiou & Youngs (2014)

Summary statistics for PSHA PGA deaggregation, r=distance, ϵ =epsilon:

Deaggregation targets:

Return period: 475 yrs

Exceedance rate: 0.0021052632 yr⁻¹

150	7.3	0.031	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.025	0.006	0.000					
150	7.5	0.026	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.010	0.015	0.000	0.000					
150	7.7	0.005	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.001	0.004	0.000	0.000	0.000					
150	7.9	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.002	0.000	0.000	0.000	0.000					
130	6.3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
130	6.5	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.001					
130	6.7	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.003	0.005					
130	6.9	0.024	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.004	0.019	0.001					
130	7.1	0.043	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.036	0.007	0.000					
130	7.3	0.061	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.036	0.025	0.000	0.000					
130	7.5	0.040	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.003	0.036	0.002	0.000	0.000					
130	7.7	0.007	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.006	0.001	0.000	0.000	0.000					
130	7.9	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.001
0.001	0.000	0.000	0.000	0.000					
110	6.1	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.001					
110	6.3	0.006	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.001	0.006					
110	6.5	0.012	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.006	0.005					
110	6.7	0.021	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.003	0.017	0.001					
110	6.9	0.042	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.034	0.008	0.000					
110	7.1	0.076	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.040	0.035	0.000	0.000					
110	7.3	0.113	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.025	0.085	0.002	0.000	0.000					
110	7.5	0.077	0.000	0.000	0.000	0.000	0.000	0.000	0.001
0.061	0.015	0.000	0.000	0.000					
110	7.7	0.012	0.000	0.000	0.000	0.000	0.000	0.000	0.005
0.006	0.000	0.000	0.000	0.000					
110	7.9	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.002
0.000	0.000	0.000	0.000	0.000					
90	5.7	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
90	5.9	0.004	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.004					

90	6.1	0.017	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.008	0.009					
90	6.3	0.035	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.003	0.030	0.002					
90	6.5	0.044	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.020	0.023	0.000					
90	6.7	0.063	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.006	0.050	0.007	0.000					
90	6.9	0.103	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.078	0.025	0.000	0.000					
90	7.1	0.135	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.061	0.073	0.001	0.000	0.000					
90	7.3	0.146	0.000	0.000	0.000	0.000	0.000	0.000	0.020
0.119	0.008	0.000	0.000	0.000					
90	7.5	0.078	0.000	0.000	0.000	0.000	0.000	0.000	0.052
0.026	0.000	0.000	0.000	0.000					
90	7.7	0.011	0.000	0.000	0.000	0.000	0.000	0.004	0.007
0.000	0.000	0.000	0.000	0.000					
90	7.9	0.003	0.000	0.000	0.000	0.000	0.000	0.002	0.000
0.000	0.000	0.000	0.000	0.000					
70	5.3	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.001					
70	5.5	0.007	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.007					
70	5.7	0.022	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.009	0.012					
70	5.9	0.042	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.002	0.034	0.006					
70	6.1	0.080	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.045	0.035	0.000					
70	6.3	0.119	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.024	0.089	0.007	0.000					
70	6.5	0.144	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.088	0.055	0.000	0.000					
70	6.7	0.167	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.046	0.105	0.016	0.000	0.000					
70	6.9	0.186	0.000	0.000	0.000	0.000	0.000	0.000	0.002
0.137	0.047	0.000	0.000	0.000					
70	7.1	0.235	0.000	0.000	0.000	0.000	0.000	0.000	0.121
0.111	0.003	0.000	0.000	0.000					
70	7.3	0.252	0.000	0.000	0.000	0.000	0.000	0.059	0.176
0.018	0.000	0.000	0.000	0.000					
70	7.5	0.130	0.000	0.000	0.000	0.000	0.000	0.081	0.049
0.000	0.000	0.000	0.000	0.000					
70	7.7	0.022	0.000	0.000	0.000	0.000	0.008	0.013	0.001
0.000	0.000	0.000	0.000	0.000					
70	7.9	0.004	0.000	0.000	0.000	0.000	0.003	0.001	0.000
0.000	0.000	0.000	0.000	0.000					
50	5.1	0.028	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.010	0.018					

50	5.3	0.066	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.002	0.050	0.014					
50	5.5	0.108	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.041	0.060	0.007					
50	5.7	0.149	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.006	0.103	0.041	0.000					
50	5.9	0.192	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.080	0.102	0.009	0.000					
50	6.1	0.282	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.063	0.166	0.053	0.000	0.000					
50	6.3	0.325	0.000	0.000	0.000	0.000	0.000	0.000	0.006
0.187	0.132	0.001	0.000	0.000					
50	6.5	0.328	0.000	0.000	0.000	0.000	0.000	0.000	0.077
0.190	0.061	0.000	0.000	0.000					
50	6.7	0.316	0.000	0.000	0.000	0.000	0.000	0.000	0.130
0.179	0.007	0.000	0.000	0.000					
50	6.9	0.328	0.000	0.000	0.000	0.000	0.000	0.058	0.215
0.055	0.000	0.000	0.000	0.000					
50	7.1	0.316	0.000	0.000	0.000	0.000	0.016	0.150	0.147
0.003	0.000	0.000	0.000	0.000					
50	7.3	0.252	0.000	0.000	0.000	0.000	0.076	0.159	0.017
0.000	0.000	0.000	0.000	0.000					
50	7.5	0.124	0.000	0.000	0.000	0.006	0.068	0.050	0.000
0.000	0.000	0.000	0.000	0.000					
50	7.7	0.014	0.000	0.000	0.000	0.005	0.008	0.001	0.000
0.000	0.000	0.000	0.000	0.000					
50	7.9	0.004	0.000	0.000	0.000	0.002	0.001	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
30	5.1	0.477	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.036	0.244	0.142	0.055	0.000					
30	5.3	0.588	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.214	0.222	0.139	0.012	0.000					
30	5.5	0.644	0.000	0.000	0.000	0.000	0.000	0.000	0.073
0.304	0.191	0.076	0.000	0.000					
30	5.7	0.662	0.000	0.000	0.000	0.000	0.000	0.000	0.218
0.248	0.186	0.010	0.000	0.000					
30	5.9	0.651	0.000	0.000	0.000	0.000	0.000	0.106	0.259
0.200	0.086	0.000	0.000	0.000					
30	6.1	0.685	0.000	0.000	0.000	0.000	0.020	0.263	0.239
0.163	0.000	0.000	0.000	0.000					
30	6.3	0.672	0.000	0.000	0.000	0.007	0.181	0.202	0.247
0.034	0.000	0.000	0.000	0.000					
30	6.5	0.534	0.000	0.000	0.000	0.025	0.142	0.237	0.130
0.000	0.000	0.000	0.000	0.000					
30	6.7	0.449	0.000	0.000	0.002	0.056	0.155	0.171	0.064
0.000	0.000	0.000	0.000	0.000					
30	6.9	0.403	0.000	0.000	0.022	0.086	0.166	0.125	0.003
0.000	0.000	0.000	0.000	0.000					
30	7.1	0.348	0.000	0.001	0.047	0.125	0.153	0.023	0.000
0.000	0.000	0.000	0.000	0.000					

30	7.3	0.306	0.000	0.014	0.082	0.128	0.079	0.002	0.000
0.000	0.000	0.000	0.000	0.000					
30	7.5	0.146	0.000	0.012	0.052	0.069	0.013	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
30	7.7	0.013	0.000	0.002	0.006	0.005	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
30	7.9	0.003	0.000	0.001	0.001	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
10	5.1	1.216	0.000	0.000	0.000	0.092	0.130	0.300	0.411
0.273	0.011	0.000	0.000	0.000					
10	5.3	1.069	0.000	0.000	0.000	0.147	0.156	0.343	0.349
0.074	0.000	0.000	0.000	0.000					
10	5.5	0.882	0.000	0.000	0.068	0.096	0.221	0.307	0.189
0.000	0.000	0.000	0.000	0.000					
10	5.7	0.694	0.000	0.000	0.075	0.088	0.217	0.279	0.035
0.000	0.000	0.000	0.000	0.000					
10	5.9	0.530	0.000	0.034	0.050	0.132	0.207	0.108	0.000
0.000	0.000	0.000	0.000	0.000					
10	6.1	0.568	0.000	0.065	0.134	0.179	0.184	0.005	0.000
0.000	0.000	0.000	0.000	0.000					
10	6.3	0.426	0.033	0.076	0.135	0.124	0.058	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
10	6.5	0.361	0.050	0.088	0.091	0.106	0.027	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
10	6.7	0.291	0.058	0.074	0.076	0.078	0.005	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
10	6.9	0.223	0.060	0.068	0.079	0.016	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
10	7.1	0.166	0.059	0.064	0.042	0.001	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
10	7.3	0.120	0.053	0.051	0.015	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
10	7.5	0.049	0.027	0.019	0.002	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
10	7.7	0.004	0.003	0.001	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
10	7.9	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					

Principal Sources (faults, subduction, random seismicity having > 3% contribution

WUSmap_2014_fixSm.ch.in (opt):

Percent Contributed: 2.44

Distance (km): 33.199636

Magnitude: 6.1583551

Epsilon (mean values): 0.020741633

noPuget_2014_fixSm.ch.in (opt):

Percent Contributed: 2.44

Distance (km): 33.188293

Magnitude: 6.1582605

Epsilon (mean values): 0.020569913

WUSmap_2014_fixSm.gr.in (opt):

Percent Contributed: 2.41
Distance (km): 32.659601
Magnitude: 6.1466036
Epsilon (mean values): 0.0092439662
noPuget_2014_fixSm.gr.in (opt):
Percent Contributed: 2.41
Distance (km): 32.648147
Magnitude: 6.1465074
Epsilon (mean values): 0.0090702694
noPuget_2014_adSm.ch.in (opt):
Percent Contributed: 1.62
Distance (km): 33.174822
Magnitude: 6.1545484
Epsilon (mean values): 0.013107767
WUSmap_2014_adSm.ch.in (opt):
Percent Contributed: 1.62
Distance (km): 33.162285
Magnitude: 6.1543328
Epsilon (mean values): 0.012827206
noPuget_2014_adSm.gr.in (opt):
Percent Contributed: 1.6
Distance (km): 32.717132
Magnitude: 6.1444229
Epsilon (mean values): 0.0032040125
WUSmap_2014_adSm.gr.in (opt):
Percent Contributed: 1.6
Distance (km): 32.705675
Magnitude: 6.1442259
Epsilon (mean values): 0.0029483546
PSHA Deaggregation. %contributions.
site: Test
longitude: 119.584°W
latitude: 45.612°E
imt: Peak Ground Acceleration
vs30 = 1150 m/s (Site class B)
return period: 475 yrs.
#This deaggregation corresponds to: GMM: Atkinson & Macias (2009) : Interface
Summary statistics for PSHA PGA deaggregation, r=distance, ε=epsilon:
Deaggregation targets:
Return period: 475 yrs
Exceedance rate: 0.0021052632 yr⁻¹
PGA ground motion: 0.057924094 g
Recovered targets:
Return period: 483.23872 yrs
Exceedance rate: 0.0020693706 yr⁻¹
Totals:
Binned: 0.2 %
Residual: 0 %
Trace: 0.01 %
Mean (over all sources):

m: 9.2
 r: 313.14 km
 ϵ_0 : 1.99 σ
 Mode (largest m-r bin):
 m: 9.34
 r: 308.17 km
 ϵ_0 : 1.73 σ

Contribution: 0.12 %
 Mode (largest m-r- ϵ_0 bin):
 m: 9.34
 r: 308.17 km
 ϵ_0 : 1.73 σ
 Contribution: 0.12 %

Discretization:
 r: min = 0.0, max = 1000.0, Δ = 20.0 km
 m: min = 4.4, max = 9.4, Δ = 0.2
 ϵ : min = -3.0, max = 3.0, Δ = 0.5 σ

Epsilon keys:
 ϵ_0 : [- ∞ .. -2.5)
 ϵ_1 : [-2.5 .. -2.0)
 ϵ_2 : [-2.0 .. -1.5)
 ϵ_3 : [-1.5 .. -1.0)
 ϵ_4 : [-1.0 .. -0.5)
 ϵ_5 : [-0.5 .. 0.0)
 ϵ_6 : [0.0 .. 0.5)
 ϵ_7 : [0.5 .. 1.0)
 ϵ_8 : [1.0 .. 1.5)
 ϵ_9 : [1.5 .. 2.0)
 ϵ_{10} : [2.0 .. 2.5)
 ϵ_{11} : [2.5 .. + ∞]

Closest Distance, rRup (km)		Magnitude (Mw)		ALL_ ϵ	$\epsilon = (-\infty, -2.5)$	$\epsilon = [-2.5, -2)$
$\epsilon = [-2, -1.5)$	$\epsilon = [-1.5, -1)$	$\epsilon = [-1, -0.5)$	$\epsilon = [-0.5, 0)$	$\epsilon = [-0.5, 0)$	$\epsilon = [0, 0.5)$	$\epsilon = [0, 0.5)$
$\epsilon = [0.5, 1)$	$\epsilon = [1, 1.5)$	$\epsilon = [1.5, 2)$	$\epsilon = [2, 2.5)$	$\epsilon = [2, 2.5)$	$\epsilon = [2.5, \infty)$	$\epsilon = [2.5, \infty)$
390	9.1	0.001	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.001	0.000	0.000
370	9.1	0.017	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.017	0.000	0.000
330	8.5	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000
330	8.7	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000
330	8.9	0.001	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.001	0.000	0.000
310	8.5	0.001	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.001	0.000	0.000
310	8.7	0.002	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.002	0.000	0.000
310	8.9	0.019	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.019	0.000	0.000	0.000
310	9.1	0.037	0.000	0.000	0.000	0.000

0.000 0.000 0.000 0.037 0.000
310 9.3 0.124 0.000 0.000 0.000 0.000 0.000 0.000 0.000
0.000 0.000 0.124 0.000 0.000

Principal Sources (faults, subduction, random seismicity having > 3% contribution
PSHA Deaggregation. %contributions.

site: Test

longitude: 119.584°W

latitude: 45.612°E

imt: Peak Ground Acceleration

vs30 = 1150 m/s (Site class B)

return period: 475 yrs.

#This deaggregation corresponds to: GMM: BC Hydro (2012) : Interface

Summary statistics for PSHA PGA deaggregation, r=distance, ϵ =epsilon:

Deaggregation targets:

Return period: 475 yrs

Exceedance rate: 0.0021052632 yr⁻¹

PGA ground motion: 0.057924094 g

Recovered targets:

Return period: 483.23872 yrs

Exceedance rate: 0.0020693706 yr⁻¹

Totals:

Binned: 8.5 %

Residual: 0 %

Trace: 0.07 %

Mean (over all sources):

m: 8.88

r: 343.87 km

ϵ_0 : 0.81 σ

Mode (largest m-r bin):

m: 9.34

r: 308.17 km

ϵ_0 : 0.24 σ

Contribution: 1.23 %

Mode (largest m-r- ϵ_0 bin):

m: 9.34

r: 308.17 km

ϵ_0 : 0.24 σ

Contribution: 1.23 %

Discretization:

r: min = 0.0, max = 1000.0, Δ = 20.0 km

m: min = 4.4, max = 9.4, Δ = 0.2

ϵ : min = -3.0, max = 3.0, Δ = 0.5 σ

Epsilon keys:

ϵ_0 : [- ∞ .. -2.5)

ϵ_1 : [-2.5 .. -2.0)

ϵ_2 : [-2.0 .. -1.5)

ϵ_3 : [-1.5 .. -1.0)

ϵ_4 : [-1.0 .. -0.5)

ϵ_5 : [-0.5 .. 0.0)

ϵ_6 : [0.0 .. 0.5)

ε7: [0.5 .. 1.0)
 ε8: [1.0 .. 1.5)
 ε9: [1.5 .. 2.0)
 ε10: [2.0 .. 2.5)
 ε11: [2.5 .. +∞]

Closest Distance, rRup (km)				Magnitude (Mw)		ALL_ε	ε=(-∞, -2.5)	ε=[-2.5, -2)	
ε=[-2, -1.5)		ε=[-1.5, -1)		ε=[-1, -0.5)		ε=[-0.5, 0)	ε=[0, 0.5)		
ε=[0.5, 1)		ε=[1, 1.5)		ε=[1.5, 2)		ε=[2, 2.5)	ε=[2.5, ∞)		
590	7.9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
570	7.9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
570	8.1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
550	7.9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
550	8.1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
530	7.9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
530	8.1	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.001	0.000					
510	7.9	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.001	0.000					
510	8.1	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.001	0.000					
510	8.3	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.001	0.000					
490	7.9	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.001	0.000					
490	8.1	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.002	0.000					
490	8.3	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.001	0.000					
490	8.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
470	7.9	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.001	0.000					
470	8.1	0.004	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.004	0.000					
470	8.3	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.001	0.001	0.000					
470	8.5	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.002	0.000	0.000					
450	7.9	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.002	0.000					
450	8.1	0.031	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.018	0.013	0.000					
450	8.3	0.028	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.028	0.000	0.000					

450	8.5	0.031	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.031	0.000	0.000					
430	7.9	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.002	0.000					
430	8.1	0.006	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.006	0.000	0.000					
430	8.3	0.004	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.004	0.000	0.000					
430	8.5	0.009	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.009	0.000	0.000					
410	7.9	0.004	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.004	0.000	0.000					
410	8.1	0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.010	0.000	0.000					
410	8.3	0.006	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.006	0.000	0.000					
410	8.5	0.019	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.010	0.009	0.000	0.000					
390	7.9	0.012	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.012	0.000	0.000					
390	8.1	0.028	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.028	0.000	0.000					
390	8.3	0.144	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.061	0.083	0.000	0.000					
390	8.5	0.171	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.168	0.003	0.000	0.000					
390	8.7	0.618	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.618	0.000	0.000	0.000					
390	9.1	0.351	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.351	0.000	0.000	0.000	0.000					
370	7.9	0.016	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.016	0.000	0.000					
370	8.1	0.038	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.012	0.026	0.000	0.000					
370	8.3	0.024	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.023	0.001	0.000	0.000					
370	8.5	0.235	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.235	0.000	0.000	0.000					
370	8.7	0.867	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.044	0.823	0.000	0.000	0.000					
370	8.9	0.841	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.841	0.000	0.000	0.000	0.000					
370	9.1	1.176	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1.176	0.000	0.000	0.000	0.000					
350	7.9	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.003	0.000	0.000					
350	8.1	0.007	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.006	0.001	0.000	0.000					
350	8.3	0.004	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.004	0.000	0.000	0.000					

350	8.5	0.017	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.017	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
330	7.9	0.005	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.005	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
330	8.1	0.012	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.012	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
330	8.3	0.007	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
330	8.5	0.087	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.073	0.014	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
330	8.7	0.080	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.080	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
330	8.9	0.091	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.091	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
310	7.9	0.015	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.015	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
310	8.1	0.035	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.035	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
310	8.3	0.021	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.021	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
310	8.5	0.131	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.127	0.004	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
310	8.7	0.174	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.174	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
310	8.9	0.881	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.881	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
310	9.1	1.004	0.000	0.000	0.000	0.000	0.000	0.000	1.004
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
310	9.3	1.232	0.000	0.000	0.000	0.000	0.000	0.000	1.232
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Principal Sources (faults, subduction, random seismicity having > 3% contribution
sub0_ch_bot.in:

Percent Contributed: 3
Distance (km): 308.17316
Magnitude: 9.1014144
Epsilon (mean values): 0.42389021

Cascadia Megathrust - whole CSZ Characteristic:

Percent Contributed: 3
Distance (km): 308.17316
Magnitude: 9.1014144
Epsilon (mean values): 0.42389021
Azimuth: 285.86185
Latitude: 46.3
Longitude: -123.4132

sub0_ch_mid.in:

Percent Contributed: 2.73
Distance (km): 361.47413
Magnitude: 8.9149663
Epsilon (mean values): 0.89526082

Cascadia Megathrust - whole CSZ Characteristic:

Percent Contributed: 2.73
Distance (km): 361.47413
Magnitude: 8.9149663
Epsilon (mean values): 0.89526082
Azimuth: 283.89391
Latitude: 46.3
Longitude: -124.13677

PSHA Deaggregation. %contributions.
site: Test

longitude: 119.584°W
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imt: Peak Ground Acceleration
vs30 = 1150 m/s (Site class B)
return period: 475 yrs.

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Summary statistics for PSHA PGA deaggregation, r=distance, ϵ =epsilon:

Deaggregation targets:

Return period: 475 yrs
Exceedance rate: 0.0021052632 yr⁻¹
PGA ground motion: 0.057924094 g

Recovered targets:

Return period: 483.23872 yrs
Exceedance rate: 0.0020693706 yr⁻¹

Totals:

Binned: 1.61 %
Residual: 0 %
Trace: 0.12 %

Mean (over all sources):

m: 7.07
r: 250.92 km
 ϵ_0 : 1.58 σ

Mode (largest m-r bin):

m: 7.11
r: 270.08 km
 ϵ_0 : 1.73 σ
Contribution: 0.23 %

Mode (largest m-r- ϵ_0 bin):

m: 7.11
r: 270.27 km
 ϵ_0 : 1.74 σ
Contribution: 0.2 %

Discretization:

r: min = 0.0, max = 1000.0, Δ = 20.0 km
m: min = 4.4, max = 9.4, Δ = 0.2
 ϵ : min = -3.0, max = 3.0, Δ = 0.5 σ

Epsilon keys:

ϵ_0 : [- ∞ .. -2.5)
 ϵ_1 : [-2.5 .. -2.0)
 ϵ_2 : [-2.0 .. -1.5)
 ϵ_3 : [-1.5 .. -1.0)

0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110	5.9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110	6.1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110	6.3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110	6.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110	6.7	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110	6.9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110	7.1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110	7.3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110	7.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110	7.7	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110	7.9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
90	7.3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
90	7.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
90	7.7	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
90	7.9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Principal Sources (faults, subduction, random seismicity having > 3% contribution
PSHA Deaggregation. %contributions.

site: Test

longitude: 119.584°W

latitude: 45.612°E

imt: Peak Ground Acceleration

vs30 = 1150 m/s (Site class B)

return period: 475 yrs.

#This deaggregation corresponds to: GMM: Zhao et al. (2006) : Interface

Summary statistics for PSHA PGA deaggregation, r=distance, ε=epsilon:

Deaggregation targets:

Return period: 475 yrs

Exceedance rate: 0.0021052632 yr⁻¹

PGA ground motion: 0.057924094 g

Recovered targets:

Return period: 483.23872 yrs

Exceedance rate: 0.0020693706 yr⁻¹

Totals:

Binned: 3.09 %

Residual: 0 %
 Trace: 0.07 %
 Mean (over all sources):
 m: 9.03
 r: 327.16 km
 ϵ_0 : 1.12 σ

Mode (largest m-r bin):
 m: 9.34
 r: 308.17 km
 ϵ_0 : 0.55 σ
 Contribution: 0.88 %

Mode (largest m-r- ϵ_0 bin):
 m: 9.34
 r: 308.17 km
 ϵ_0 : 0.55 σ
 Contribution: 0.88 %

Discretization:
 r: min = 0.0, max = 1000.0, Δ = 20.0 km
 m: min = 4.4, max = 9.4, Δ = 0.2
 ϵ : min = -3.0, max = 3.0, Δ = 0.5 σ

Epsilon keys:
 ϵ_0 : [- ∞ .. -2.5)
 ϵ_1 : [-2.5 .. -2.0)
 ϵ_2 : [-2.0 .. -1.5)
 ϵ_3 : [-1.5 .. -1.0)
 ϵ_4 : [-1.0 .. -0.5)
 ϵ_5 : [-0.5 .. 0.0)
 ϵ_6 : [0.0 .. 0.5)
 ϵ_7 : [0.5 .. 1.0)
 ϵ_8 : [1.0 .. 1.5)
 ϵ_9 : [1.5 .. 2.0)
 ϵ_{10} : [2.0 .. 2.5)
 ϵ_{11} : [2.5 .. + ∞]

Closest Distance, rRup (km)				Magnitude (Mw)		ALL_ ϵ	$\epsilon = (-\infty, -2.5)$	$\epsilon = [-2.5, -2)$	
$\epsilon = [-2, -1.5)$	$\epsilon = [-1.5, -1)$	$\epsilon = [-1, -0.5)$	$\epsilon = [-0.5, 0)$	$\epsilon = [0, 0.5)$	$\epsilon = [0.5, 1)$	$\epsilon = [-0.5, 0)$	$\epsilon = [0, 0.5)$	$\epsilon = [0.5, 1)$	$\epsilon = [1, 1.5)$
$\epsilon = [0.5, 1)$	$\epsilon = [1, 1.5)$	$\epsilon = [1.5, 2)$	$\epsilon = [2, 2.5)$	$\epsilon = [2.5, \infty)$		$\epsilon = [2, 2.5)$	$\epsilon = [2.5, \infty)$		
430	8.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
410	8.1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
410	8.3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
410	8.5	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000
390	8.1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
390	8.3	0.005	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.005	0.000	0.000	0.000	0.000	0.000
390	8.5	0.011	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.005	0.006	0.000	0.000	0.000	0.000	0.000

390	8.7	0.073	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.073	0.000					
390	9.1	0.080	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.080	0.000	0.000					
370	7.9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
370	8.1	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.001					
370	8.3	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.001	0.000					
370	8.5	0.029	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.029	0.000					
370	8.7	0.166	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.165	0.001	0.000					
370	8.9	0.198	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.198	0.000	0.000					
370	9.1	0.420	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.420	0.000	0.000	0.000					
350	7.9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
350	8.1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
350	8.3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
350	8.5	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.002	0.001	0.000					
330	7.9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
330	8.1	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.001	0.000					
330	8.3	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.001	0.000					
330	8.5	0.021	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.021	0.000	0.000					
330	8.7	0.023	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.002	0.022	0.000	0.000					
330	8.9	0.037	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.037	0.000	0.000	0.000					
310	7.9	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.002	0.000					
310	8.1	0.006	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.003	0.003	0.000					
310	8.3	0.004	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.004	0.000	0.000					
310	8.5	0.042	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.012	0.030	0.000	0.000					
310	8.7	0.070	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.070	0.000	0.000	0.000					
310	8.9	0.431	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.431	0.000	0.000	0.000					

310	9.1	0.573	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.573	0.000	0.000	0.000	0.000					
310	9.3	0.885	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.885	0.000	0.000	0.000	0.000					

Principal Sources (faults, subduction, random seismicity having > 3% contribution
sub0_ch_bot.in:

Percent Contributed: 1.83
Distance (km): 308.17316
Magnitude: 9.134688
Epsilon (mean values): 0.78648094

Cascadia Megathrust - whole CSZ Characteristic:

Percent Contributed: 1.83
Distance (km): 308.17316
Magnitude: 9.134688
Epsilon (mean values): 0.78648094
Azimuth: 285.86185
Latitude: 46.3
Longitude: -123.4132

PSHA Deaggregation. %contributions.

site: Test

longitude: 119.584°W

latitude: 45.612°E

imt: Peak Ground Acceleration

vs30 = 1150 m/s (Site class B)

return period: 475 yrs.

#This deaggregation corresponds to: GMM: Zhao et al. (2006) : Slab

Summary statistics for PSHA PGA deaggregation, r=distance, ε=epsilon:

Deaggregation targets:

Return period: 475 yrs
Exceedance rate: 0.0021052632 yr⁻¹
PGA ground motion: 0.057924094 g

Recovered targets:

Return period: 483.23872 yrs
Exceedance rate: 0.0020693706 yr⁻¹

Totals:

Binned: 0.15 %
Residual: 0 %
Trace: 0.16 %

Mean (over all sources):

m: 7.23
r: 227.49 km
ε₀: 1.8 σ

Mode (largest m-r bin):

m: 7.11
r: 229.6 km
ε₀: 2.1 σ

Contribution: 0.02 %

Mode (largest m-r-ε₀ bin):

m: 7.11
r: 211.83 km

ϵ_0 : 1.75 σ

Contribution: 0.02 %

Discretization:

r: min = 0.0, max = 1000.0, Δ = 20.0 km

m: min = 4.4, max = 9.4, Δ = 0.2

ϵ : min = -3.0, max = 3.0, Δ = 0.5 σ

Epsilon keys:

ϵ_0 : $[-\infty \dots -2.5)$

ϵ_1 : $[-2.5 \dots -2.0)$

ϵ_2 : $[-2.0 \dots -1.5)$

ϵ_3 : $[-1.5 \dots -1.0)$

ϵ_4 : $[-1.0 \dots -0.5)$

ϵ_5 : $[-0.5 \dots 0.0)$

ϵ_6 : $[0.0 \dots 0.5)$

ϵ_7 : $[0.5 \dots 1.0)$

ϵ_8 : $[1.0 \dots 1.5)$

ϵ_9 : $[1.5 \dots 2.0)$

ϵ_{10} : $[2.0 \dots 2.5)$

ϵ_{11} : $[2.5 \dots +\infty)$

Closest Distance, rRup (km)

Magnitude (Mw)

ALL_ ϵ

$\epsilon = (-\infty, -2.5)$

$\epsilon = [-2.5, -2)$

$\epsilon = [-2, -1.5)$

$\epsilon = [-1.5, -1)$

$\epsilon = [-1, -0.5)$

$\epsilon = [-0.5, 0)$

$\epsilon = [0, 0.5)$

$\epsilon = [0.5, 1)$

$\epsilon = [1, 1.5)$

$\epsilon = [1.5, 2)$

$\epsilon = [2, 2.5)$

$\epsilon = [2.5, \infty)$

290	7.1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
290	7.3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
290	7.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
270	6.9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
270	7.1	0.005	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.005					
270	7.3	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.002	0.001					
270	7.5	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.001	0.002	0.000					
270	7.7	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.001	0.000	0.000					
270	7.9	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
250	6.7	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
250	6.9	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.002					
250	7.1	0.016	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.011	0.005					
250	7.3	0.005	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.002	0.003	0.000					
250	7.5	0.005	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.004	0.000	0.000					

110	6.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110	6.7	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110	6.9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110	7.1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110	7.3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110	7.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110	7.7	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110	7.9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
90	7.3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
90	7.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
90	7.7	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
90	7.9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Principal Sources (faults, subduction, random seismicity having > 3% contribution
PSHA Deaggregation. %contributions.

site: Test

longitude: 119.584°W

latitude: 45.612°E

imt: Peak Ground Acceleration

vs30 = 1150 m/s (Site class B)

return period: 475 yrs.

#This deaggregation corresponds to: Source Type: Grid

Summary statistics for PSHA PGA deaggregation, r=distance, ε=epsilon:

Deaggregation targets:

Return period: 475 yrs

Exceedance rate: 0.0021052632 yr⁻¹

PGA ground motion: 0.057924094 g

Recovered targets:

Return period: 483.23872 yrs

Exceedance rate: 0.0020693706 yr⁻¹

Totals:

Binned: 84.39 %

Residual: 0 %

Trace: 0.39 %

Mean (over all sources):

m: 6.1

r: 33.84 km

ε₀: 0.03 σ

Mode (largest m-r bin):

0.008	0.504	0.517	0.075	0.000					
50	5.9	1.259	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.152	0.752	0.347	0.009	0.000					
50	6.1	1.642	0.000	0.000	0.000	0.000	0.000	0.000	0.035
0.806	0.738	0.062	0.000	0.000					
50	6.3	1.749	0.000	0.000	0.000	0.000	0.000	0.000	0.391
1.052	0.305	0.001	0.000	0.000					
50	6.5	1.621	0.000	0.000	0.000	0.000	0.000	0.103	0.711
0.717	0.090	0.000	0.000	0.000					
50	6.7	1.333	0.000	0.000	0.000	0.000	0.000	0.116	0.768
0.442	0.007	0.000	0.000	0.000					
50	6.9	1.212	0.000	0.000	0.000	0.000	0.000	0.314	0.760
0.138	0.000	0.000	0.000	0.000					
50	7.1	1.093	0.000	0.000	0.000	0.000	0.033	0.581	0.474
0.006	0.000	0.000	0.000	0.000					
50	7.3	0.886	0.000	0.000	0.000	0.000	0.155	0.606	0.125
0.000	0.000	0.000	0.000	0.000					
50	7.5	0.449	0.000	0.000	0.000	0.006	0.169	0.258	0.017
0.000	0.000	0.000	0.000	0.000					
50	7.7	0.052	0.000	0.000	0.000	0.005	0.033	0.013	0.000
0.000	0.000	0.000	0.000	0.000					
50	7.9	0.014	0.000	0.000	0.000	0.004	0.009	0.001	0.000
0.000	0.000	0.000	0.000	0.000					
30	5.1	2.480	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.575	1.087	0.640	0.175	0.002					
30	5.3	3.167	0.000	0.000	0.000	0.000	0.000	0.000	0.248
1.380	1.045	0.469	0.025	0.000					
30	5.5	3.836	0.000	0.000	0.000	0.000	0.000	0.136	1.222
1.469	0.904	0.104	0.000	0.000					
30	5.7	3.670	0.000	0.000	0.000	0.000	0.000	0.518	1.444
1.264	0.434	0.010	0.000	0.000					
30	5.9	3.316	0.000	0.000	0.000	0.000	0.036	0.922	1.246
1.026	0.087	0.000	0.000	0.000					
30	6.1	3.194	0.000	0.000	0.000	0.000	0.345	1.180	1.299
0.370	0.000	0.000	0.000	0.000					
30	6.3	2.946	0.000	0.000	0.000	0.133	0.787	1.134	0.851
0.041	0.000	0.000	0.000	0.000					
30	6.5	2.274	0.000	0.000	0.000	0.198	0.702	0.991	0.382
0.000	0.000	0.000	0.000	0.000					
30	6.7	1.858	0.000	0.000	0.019	0.210	0.696	0.757	0.176
0.000	0.000	0.000	0.000	0.000					
30	6.9	1.596	0.000	0.000	0.053	0.305	0.713	0.521	0.003
0.000	0.000	0.000	0.000	0.000					
30	7.1	1.346	0.000	0.001	0.097	0.436	0.638	0.174	0.000
0.000	0.000	0.000	0.000	0.000					
30	7.3	1.172	0.000	0.015	0.179	0.470	0.477	0.031	0.000
0.000	0.000	0.000	0.000	0.000					
30	7.5	0.558	0.000	0.015	0.112	0.270	0.161	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
30	7.7	0.051	0.000	0.003	0.014	0.028	0.006	0.000	0.000

0.000	0.000	0.000	0.000	0.000					
30	7.9	0.010	0.000	0.001	0.004	0.005	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
10	5.1	5.166	0.000	0.000	0.000	0.606	0.528	1.349	1.774
0.850	0.061	0.000	0.000	0.000					
10	5.3	4.709	0.000	0.072	0.201	0.476	0.922	1.627	1.278
0.134	0.000	0.000	0.000	0.000					
10	5.5	4.013	0.051	0.131	0.347	0.696	1.188	1.286	0.314
0.000	0.000	0.000	0.000	0.000					
10	5.7	3.036	0.077	0.077	0.293	0.653	1.216	0.679	0.041
0.000	0.000	0.000	0.000	0.000					
10	5.9	2.232	0.088	0.139	0.245	0.647	0.923	0.190	0.000
0.000	0.000	0.000	0.000	0.000					
10	6.1	2.313	0.098	0.283	0.551	0.737	0.629	0.016	0.000
0.000	0.000	0.000	0.000	0.000					
10	6.3	1.707	0.173	0.329	0.480	0.503	0.222	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
10	6.5	1.437	0.204	0.297	0.409	0.388	0.140	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
10	6.7	1.153	0.200	0.250	0.352	0.302	0.050	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
10	6.9	0.882	0.175	0.237	0.305	0.165	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
10	7.1	0.657	0.153	0.219	0.230	0.055	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
10	7.3	0.473	0.129	0.176	0.154	0.015	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
10	7.5	0.193	0.062	0.076	0.053	0.001	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
10	7.7	0.015	0.006	0.006	0.003	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
10	7.9	0.003	0.001	0.001	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					

Principal Sources (faults, subduction, random seismicity having > 3% contribution

WUSmap_2014_fixSm.ch.in (opt):

Percent Contributed: 11.36

Distance (km): 33.731396

Magnitude: 6.0941281

Epsilon (mean values): 0.040829534

noPuget_2014_fixSm.ch.in (opt):

Percent Contributed: 11.36

Distance (km): 33.726627

Magnitude: 6.0940845

Epsilon (mean values): 0.040752476

WUSmap_2014_fixSm.gr.in (opt):

Percent Contributed: 11.19

Distance (km): 33.221067

Magnitude: 6.0823826

Epsilon (mean values): 0.03043332

noPuget_2014_fixSm.gr.in (opt):

Percent Contributed: 11.19
Distance (km): 33.216237
Magnitude: 6.0823382
Epsilon (mean values): 0.030355177
noPuget_2014_adSm.ch.in (opt):
Percent Contributed: 7.51
Distance (km): 33.626143
Magnitude: 6.0904636
Epsilon (mean values): 0.031044193
WUSmap_2014_adSm.ch.in (opt):
Percent Contributed: 7.5
Distance (km): 33.614214
Magnitude: 6.0902727
Epsilon (mean values): 0.030747251
noPuget_2014_adSm.gr.in (opt):
Percent Contributed: 7.42
Distance (km): 33.190486
Magnitude: 6.0802856
Epsilon (mean values): 0.022058579
WUSmap_2014_adSm.gr.in (opt):
Percent Contributed: 7.41
Distance (km): 33.179622
Magnitude: 6.080114
Epsilon (mean values): 0.021784775
WUSmap_2014_fixSm_M8.in (opt):
Percent Contributed: 2.78
Distance (km): 36.551315
Magnitude: 6.2170595
Epsilon (mean values): 0.016136895
noPuget_2014_fixSm_M8.in (opt):
Percent Contributed: 2.78
Distance (km): 36.521154
Magnitude: 6.2167664
Epsilon (mean values): 0.015741702
noPuget_2014_adSm_M8.in (opt):
Percent Contributed: 1.84
Distance (km): 36.544824
Magnitude: 6.2141811
Epsilon (mean values): 0.0088216986
WUSmap_2014_adSm_M8.in (opt):
Percent Contributed: 1.84
Distance (km): 36.542938
Magnitude: 6.2140045
Epsilon (mean values): 0.0086772313
PSHA Deaggregation. %contributions.
site: Test
longitude: 119.584°W
latitude: 45.612°E
imt: Peak Ground Acceleration
vs30 = 1150 m/s (Site class B)

return period: 475 yrs.

#This deaggregation corresponds to: Source Type: Slab

Summary statistics for PSHA PGA deaggregation, r=distance, ε=epsilon:

Deaggregation targets:

Return period: 475 yrs

Exceedance rate: 0.0021052632 yr⁻¹

PGA ground motion: 0.057924094 g

Recovered targets:

Return period: 483.23872 yrs

Exceedance rate: 0.0020693706 yr⁻¹

Totals:

Binned: 1.75 %

Residual: 0 %

Trace: 0.17 %

Mean (over all sources):

m: 7.08

r: 248.93 km

ε₀: 1.6 σ

Mode (largest m-r bin):

m: 7.11

r: 270.02 km

ε₀: 1.75 σ

Contribution: 0.23 %

Mode (largest m-r-ε₀ bin):

m: 7.11

r: 270.27 km

ε₀: 1.74 σ

Contribution: 0.2 %

Discretization:

r: min = 0.0, max = 1000.0, Δ = 20.0 km

m: min = 4.4, max = 9.4, Δ = 0.2

ε: min = -3.0, max = 3.0, Δ = 0.5 σ

Epsilon keys:

ε₀: [-∞ .. -2.5)

ε₁: [-2.5 .. -2.0)

ε₂: [-2.0 .. -1.5)

ε₃: [-1.5 .. -1.0)

ε₄: [-1.0 .. -0.5)

ε₅: [-0.5 .. 0.0)

ε₆: [0.0 .. 0.5)

ε₇: [0.5 .. 1.0)

ε₈: [1.0 .. 1.5)

ε₉: [1.5 .. 2.0)

ε₁₀: [2.0 .. 2.5)

ε₁₁: [2.5 .. +∞)

Closest Distance, rRup (km)

ε=[-2,-1.5) ε=[-1.5,-1)

ε=[0.5,1) ε=[1,1.5)

290 6.5 0.000 0.000

0.000 0.000 0.000 0.000

Magnitude (Mw)

ε=[-1,-0.5)

ε=[1.5,2)

0.000 0.000

0.000

ALL_ε ε=(-∞,-2.5)

ε=[-0.5,0)

ε=[2,2.5)

0.000 0.000

0.000

ε=[-2.5,-2)

ε=[0,0.5)

ε=[2.5,∞)

0.000 0.000

0.000

290	6.7	0.014	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.001	0.013					
290	6.9	0.055	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.046	0.009					
290	7.1	0.124	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.089	0.035	0.000					
290	7.3	0.016	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.008	0.008	0.000	0.000					
290	7.5	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.008	0.000	0.000	0.000					
270	6.5	0.004	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.004					
270	6.7	0.029	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.015	0.014					
270	6.9	0.094	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.022	0.072	0.000					
270	7.1	0.231	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.018	0.195	0.013	0.005					
270	7.3	0.044	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.035	0.007	0.002	0.001					
270	7.5	0.033	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.012	0.019	0.001	0.002	0.000					
270	7.7	0.006	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.005	0.000	0.001	0.000	0.000					
270	7.9	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.001	0.000	0.000	0.000	0.000					
250	6.3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
250	6.5	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.001	0.007					
250	6.7	0.037	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.035	0.002					
250	6.9	0.098	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.077	0.019	0.002					
250	7.1	0.229	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.111	0.102	0.011	0.005					
250	7.3	0.041	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.009	0.028	0.002	0.003	0.000					
250	7.5	0.033	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.025	0.003	0.004	0.000	0.000					
250	7.7	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.002
0.004	0.002	0.000	0.000	0.000					
250	7.9	0.009	0.000	0.000	0.000	0.000	0.000	0.000	0.004
0.005	0.001	0.000	0.000	0.000					
230	6.3	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.001					
230	6.5	0.009	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.007	0.002					
230	6.7	0.032	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.014	0.018	0.001					

230	6.9	0.083	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.014	0.061	0.006	0.003					
230	7.1	0.176	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.146	0.013	0.016	0.000					
230	7.3	0.031	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.021	0.005	0.005	0.000	0.000					
230	7.5	0.023	0.000	0.000	0.000	0.000	0.000	0.000	0.005
0.013	0.004	0.001	0.000	0.000					
230	7.7	0.006	0.000	0.000	0.000	0.000	0.000	0.000	0.003
0.002	0.001	0.000	0.000	0.000					
230	7.9	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.006
0.001	0.000	0.000	0.000	0.000					
210	6.1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
210	6.3	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.001					
210	6.5	0.006	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.005	0.000					
210	6.7	0.016	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.014	0.001	0.001					
210	6.9	0.041	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.025	0.010	0.005	0.000					
210	7.1	0.092	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.045	0.031	0.016	0.001	0.000					
210	7.3	0.018	0.000	0.000	0.000	0.000	0.000	0.000	0.003
0.011	0.003	0.001	0.000	0.000					
210	7.5	0.014	0.000	0.000	0.000	0.000	0.000	0.000	0.009
0.003	0.002	0.000	0.000	0.000					
210	7.7	0.004	0.000	0.000	0.000	0.000	0.000	0.000	0.002
0.001	0.000	0.000	0.000	0.000					
210	7.9	0.005	0.000	0.000	0.000	0.000	0.000	0.002	0.002
0.000	0.000	0.000	0.000	0.000					
190	5.9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
190	6.1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
190	6.3	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.001	0.000					
190	6.5	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.001	0.001	0.000					
190	6.7	0.005	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.002	0.003	0.001	0.000					
190	6.9	0.011	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.001	0.007	0.002	0.000	0.000					
190	7.1	0.021	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.015	0.005	0.001	0.000	0.000					
190	7.3	0.004	0.000	0.000	0.000	0.000	0.000	0.000	0.002
0.001	0.000	0.000	0.000	0.000					
190	7.5	0.003	0.000	0.000	0.000	0.000	0.000	0.001	0.002
0.001	0.000	0.000	0.000	0.000					

110	6.7	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110	6.9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110	7.1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110	7.3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110	7.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110	7.7	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110	7.9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
90	7.3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
90	7.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
90	7.7	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
90	7.9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Principal Sources (faults, subduction, random seismicity having > 3% contribution
PSHA Deaggregation. %contributions.

site: Test

longitude: 119.584°W

latitude: 45.612°E

imt: Peak Ground Acceleration

vs30 = 1150 m/s (Site class B)

return period: 475 yrs.

#This deaggregation corresponds to: Source Type: Interface

Summary statistics for PSHA PGA deaggregation, r=distance, ε=epsilon:

Deaggregation targets:

Return period: 475 yrs

Exceedance rate: 0.0021052632 yr⁻¹

PGA ground motion: 0.057924094 g

Recovered targets:

Return period: 483.23872 yrs

Exceedance rate: 0.0020693706 yr⁻¹

Totals:

Binned: 11.79 %

Residual: 0 %

Trace: 0.14 %

Mean (over all sources):

m: 8.93

r: 338.96 km

ε₀: 0.91 σ

Mode (largest m-r bin):

m: 9.34

r: 308.17 km

ϵ_0 : 0.45 σ
 Contribution: 2.24 %
 Mode (largest m-r- ϵ_0 bin):
 m: 9.34
 r: 308.17 km
 ϵ_0 : 0.24 σ
 Contribution: 1.23 %

Discretization:
 r: min = 0.0, max = 1000.0, Δ = 20.0 km
 m: min = 4.4, max = 9.4, Δ = 0.2
 ϵ : min = -3.0, max = 3.0, Δ = 0.5 σ

Epsilon keys:
 ϵ_0 : [- ∞ .. -2.5)
 ϵ_1 : [-2.5 .. -2.0)
 ϵ_2 : [-2.0 .. -1.5)
 ϵ_3 : [-1.5 .. -1.0)
 ϵ_4 : [-1.0 .. -0.5)
 ϵ_5 : [-0.5 .. 0.0)
 ϵ_6 : [0.0 .. 0.5)
 ϵ_7 : [0.5 .. 1.0)
 ϵ_8 : [1.0 .. 1.5)
 ϵ_9 : [1.5 .. 2.0)
 ϵ_{10} : [2.0 .. 2.5)
 ϵ_{11} : [2.5 .. + ∞)

Closest Distance, rRup (km)		Magnitude (Mw)		ALL_ ϵ	$\epsilon=(-\infty, -2.5)$	$\epsilon=[-2.5, -2)$
$\epsilon=[-2, -1.5)$	$\epsilon=[-1.5, -1)$	$\epsilon=[-1, -0.5)$	$\epsilon=[-0.5, 0)$	$\epsilon=[-0.5, 0)$	$\epsilon=[0, 0.5)$	
$\epsilon=[0.5, 1)$	$\epsilon=[1, 1.5)$	$\epsilon=[1.5, 2)$	$\epsilon=[2, 2.5)$	$\epsilon=[2, 2.5)$	$\epsilon=[2.5, \infty)$	
590	7.9	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000
570	7.9	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000
570	8.1	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000
550	7.9	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000
550	8.1	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000
530	7.9	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000
530	8.1	0.001	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.001	0.000	0.000	0.000
510	7.9	0.001	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.001	0.000	0.000	0.000
510	8.1	0.001	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.001	0.000	0.000	0.000
510	8.3	0.001	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.001	0.000	0.000	0.000
490	7.9	0.001	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.001	0.000	0.000	0.000
490	8.1	0.002	0.000	0.000	0.000	0.000

0.000	0.000	0.016	0.000	0.000					
370	8.1	0.040	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.012	0.026	0.000	0.001					
370	8.3	0.025	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.023	0.001	0.001	0.000					
370	8.5	0.264	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.235	0.000	0.029	0.000					
370	8.7	1.033	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.044	0.823	0.165	0.001	0.000					
370	8.9	1.039	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.841	0.000	0.198	0.000	0.000					
370	9.1	1.614	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1.176	0.420	0.000	0.000	0.017					
350	7.9	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.003	0.000	0.000					
350	8.1	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.006	0.001	0.000	0.000					
350	8.3	0.005	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.004	0.000	0.000	0.000					
350	8.5	0.020	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.017	0.002	0.001	0.000					
330	7.9	0.006	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.005	0.000	0.000	0.000					
330	8.1	0.013	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.012	0.000	0.001	0.000					
330	8.3	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.007	0.000	0.001	0.000					
330	8.5	0.108	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.073	0.014	0.021	0.000	0.000					
330	8.7	0.104	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.080	0.002	0.022	0.000	0.000					
330	8.9	0.129	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.091	0.037	0.000	0.000	0.001					
310	7.9	0.017	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.015	0.000	0.002	0.000					
310	8.1	0.040	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.035	0.003	0.003	0.000					
310	8.3	0.025	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.021	0.004	0.000	0.000					
310	8.5	0.173	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.127	0.016	0.030	0.000	0.001					
310	8.7	0.246	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.174	0.070	0.000	0.000	0.002					
310	8.9	1.331	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.881	0.431	0.000	0.019	0.000					
310	9.1	1.615	0.000	0.000	0.000	0.000	0.000	0.000	1.004
0.573	0.000	0.000	0.037	0.000					
310	9.3	2.240	0.000	0.000	0.000	0.000	0.000	0.000	1.232
0.885	0.000	0.124	0.000	0.000					

Principal Sources (faults, subduction, random seismicity having > 3% contribution)

sub0_ch_bot.in:

Percent Contributed: 5.01
Distance (km): 308.17316
Magnitude: 9.1179324
Epsilon (mean values): 0.60824831

Cascadia Megathrust - whole CSZ Characteristic:

Percent Contributed: 5.01
Distance (km): 308.17316
Magnitude: 9.1179324
Epsilon (mean values): 0.60824831
Azimuth: 285.86185
Latitude: 46.3
Longitude: -123.4132

sub0_ch_mid.in:

Percent Contributed: 3.5
Distance (km): 361.47413
Magnitude: 8.9265389
Epsilon (mean values): 1.0494554

Cascadia Megathrust - whole CSZ Characteristic:

Percent Contributed: 3.5
Distance (km): 361.47413
Magnitude: 8.9265389
Epsilon (mean values): 1.0494554
Azimuth: 283.89391
Latitude: 46.3
Longitude: -124.13677

PSHA Deaggregation. %contributions.

site: Test

longitude: 119.584°W

latitude: 45.612°E

imt: Peak Ground Acceleration

vs30 = 1150 m/s (Site class B)

return period: 475 yrs.

#This deaggregation corresponds to: Source Type: Fault

Summary statistics for PSHA PGA deaggregation, r=distance, ϵ =epsilon:

Deaggregation targets:

Return period: 475 yrs
Exceedance rate: 0.0021052632 yr⁻¹
PGA ground motion: 0.057924094 g

Recovered targets:

Return period: 483.23872 yrs
Exceedance rate: 0.0020693706 yr⁻¹

Totals:

Binned: 2.06 %
Residual: 0 %
Trace: 0.05 %

Mean (over all sources):

m: 7.02
r: 72.37 km
 ϵ_0 : 0.68 σ

Mode (largest m-r bin):

m: 7.1
r: 62.35 km
 ϵ_0 : 0.38 σ
Contribution: 0.2 %

Mode (largest m-r- ϵ_0 bin):

m: 7.11
r: 62.22 km
 ϵ_0 : 0.32 σ
Contribution: 0.15 %

Discretization:

r: min = 0.0, max = 1000.0, Δ = 20.0 km
m: min = 4.4, max = 9.4, Δ = 0.2
 ϵ : min = -3.0, max = 3.0, Δ = 0.5 σ

Epsilon keys:

ϵ_0 : [- ∞ .. -2.5)
 ϵ_1 : [-2.5 .. -2.0)
 ϵ_2 : [-2.0 .. -1.5)
 ϵ_3 : [-1.5 .. -1.0)
 ϵ_4 : [-1.0 .. -0.5)
 ϵ_5 : [-0.5 .. 0.0)
 ϵ_6 : [0.0 .. 0.5)
 ϵ_7 : [0.5 .. 1.0)
 ϵ_8 : [1.0 .. 1.5)
 ϵ_9 : [1.5 .. 2.0)
 ϵ_{10} : [2.0 .. 2.5)
 ϵ_{11} : [2.5 .. + ∞]

Closest Distance, rRup (km)		Magnitude (Mw)		ALL_ ϵ	$\epsilon = (-\infty, -2.5)$	$\epsilon = [-2.5, -2)$			
$\epsilon = [-2, -1.5)$	$\epsilon = [-1.5, -1)$	$\epsilon = [-1, -0.5)$	$\epsilon = [-0.5, 0)$	$\epsilon = [0, 0.5)$	$\epsilon = [0.5, 1)$	$\epsilon = [1, 1.5)$			
$\epsilon = [0.5, 1)$	$\epsilon = [1, 1.5)$	$\epsilon = [1.5, 2)$	$\epsilon = [2, 2.5)$	$\epsilon = [2.5, \infty)$					
270	7.7	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
250	7.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
250	7.7	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
250	7.9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
230	7.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
210	7.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
210	7.7	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
210	7.9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
170	6.7	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
170	6.9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					

150	6.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
150	6.7	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
150	6.9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
150	7.1	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.002					
150	7.3	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.001	0.001					
150	7.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
130	6.5	0.004	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.002	0.003					
130	6.7	0.016	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.012	0.004					
130	6.9	0.027	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.007	0.020	0.000					
130	7.1	0.031	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.027	0.005	0.000					
130	7.3	0.016	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.006	0.010	0.000	0.000					
130	7.5	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.002	0.000	0.000	0.000					
110	6.5	0.004	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.001	0.002	0.000					
110	6.7	0.009	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.005	0.004	0.000					
110	6.9	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.006	0.002	0.000					
110	7.1	0.032	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.005	0.026	0.001	0.000					
110	7.3	0.076	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.055	0.021	0.000	0.000					
110	7.5	0.055	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.016	0.037	0.002	0.000	0.000					
110	7.7	0.009	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.006	0.003	0.000	0.000	0.000					
90	6.5	0.014	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.004	0.008	0.002	0.000					
90	6.7	0.042	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.018	0.023	0.001	0.000					
90	6.9	0.072	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.010	0.055	0.007	0.000	0.000					
90	7.1	0.079	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.041	0.038	0.000	0.000	0.000					
90	7.3	0.039	0.000	0.000	0.000	0.000	0.000	0.000	0.002
0.034	0.002	0.000	0.000	0.000					
90	7.5	0.006	0.000	0.000	0.000	0.000	0.000	0.000	0.003
0.002	0.000	0.000	0.000	0.000					

70	6.5	0.097	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.044	0.051	0.003	0.000	0.000					
70	6.7	0.188	0.000	0.000	0.000	0.000	0.000	0.000	0.016
0.142	0.029	0.000	0.000	0.000					
70	6.9	0.092	0.000	0.000	0.000	0.000	0.000	0.000	0.026
0.066	0.000	0.000	0.000	0.000					
70	7.1	0.196	0.000	0.000	0.000	0.000	0.000	0.000	0.154
0.042	0.000	0.000	0.000	0.000					
70	7.3	0.191	0.000	0.000	0.000	0.000	0.000	0.055	0.135
0.000	0.000	0.000	0.000	0.000					
70	7.5	0.100	0.000	0.000	0.000	0.000	0.000	0.068	0.033
0.000	0.000	0.000	0.000	0.000					
70	7.7	0.032	0.000	0.000	0.000	0.000	0.005	0.027	0.000
0.000	0.000	0.000	0.000	0.000					
70	7.9	0.002	0.000	0.000	0.000	0.000	0.001	0.001	0.000
0.000	0.000	0.000	0.000	0.000					
50	6.5	0.078	0.000	0.000	0.000	0.000	0.000	0.000	0.008
0.057	0.013	0.000	0.000	0.000					
50	6.7	0.169	0.000	0.000	0.000	0.000	0.000	0.000	0.054
0.115	0.000	0.000	0.000	0.000					
50	6.9	0.170	0.000	0.000	0.000	0.000	0.000	0.000	0.112
0.058	0.000	0.000	0.000	0.000					
50	7.1	0.138	0.000	0.000	0.000	0.000	0.000	0.000	0.138
0.000	0.000	0.000	0.000	0.000					
50	7.3	0.056	0.000	0.000	0.000	0.000	0.000	0.031	0.025
0.000	0.000	0.000	0.000	0.000					
50	7.5	0.007	0.000	0.000	0.000	0.000	0.000	0.006	0.001
0.000	0.000	0.000	0.000	0.000					

Principal Sources (faults, subduction, random seismicity having > 3% contribution

*** Deaggregation of Seismic Hazard at One Period of Spectral Acceleration ***

*** Data from Dynamic: Conterminous U.S. 2014 (update) (4.2.0) ****

PSHA Deaggregation. %contributions.

site: Test

longitude: 119.584°W

latitude: 45.612°E

imt: Peak Ground Acceleration

vs30 = 259 m/s (Site class D)

return period: 475 yrs.

#This deaggregation corresponds to: Total

Summary statistics for PSHA PGA deaggregation, r=distance, ϵ =epsilon:

Deaggregation targets:

Return period: 475 yrs

Exceedance rate: 0.0021052632 yr⁻¹

PGA ground motion: 0.10404746 g

Recovered targets:

Return period: 480.28208 yrs

Exceedance rate: 0.0020821098 yr⁻¹

Totals:

Binned: 100 %

Residual: 0 %

Trace: 0.78 %

Mean (over all sources):

m: 6.37

r: 66.05 km

ϵ_0 : 0.21 σ

Mode (largest m-r bin):

m: 5.1

r: 12.07 km

ϵ_0 : -0.09 σ

Contribution: 5.15 %

Mode (largest m-r- ϵ_0 bin):

m: 5.1

r: 14.78 km

ϵ_0 : 0.25 σ

Contribution: 1.74 %

Discretization:

r: min = 0.0, max = 1000.0, Δ = 20.0 km

m: min = 4.4, max = 9.4, Δ = 0.2

ϵ : min = -3.0, max = 3.0, Δ = 0.5 σ

Epsilon keys:

ϵ_0 : [-∞ .. -2.5)

ϵ_1 : [-2.5 .. -2.0)

ϵ_2 : [-2.0 .. -1.5)

ϵ_3 : [-1.5 .. -1.0)

ϵ_4 : [-1.0 .. -0.5)

ϵ_5 : [-0.5 .. 0.0)

ϵ_6 : [0.0 .. 0.5)

ϵ_7 : [0.5 .. 1.0)

ϵ_8 : [1.0 .. 1.5)

430	7.9	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.002	0.000					
430	8.1	0.006	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.004	0.002	0.000					
430	8.3	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.003	0.000	0.000					
430	8.5	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.008	0.000	0.000					
410	7.9	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.002	0.001	0.000					
410	8.1	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.008	0.000	0.000					
410	8.3	0.005	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.005	0.000	0.000					
410	8.5	0.017	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.003	0.013	0.000	0.000					
390	7.9	0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.010	0.000	0.000					
390	8.1	0.023	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.023	0.000	0.000					
390	8.3	0.123	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.123	0.000	0.000					
390	8.5	0.146	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.067	0.079	0.000	0.001					
390	8.7	0.541	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.527	0.000	0.000	0.014					
390	9.1	0.327	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.299	0.000	0.024	0.003					
370	7.9	0.014	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.014	0.000	0.000					
370	8.1	0.033	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.033	0.000	0.000					
370	8.3	0.020	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.013	0.007	0.000	0.000					
370	8.5	0.206	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.200	0.000	0.000	0.006					
370	8.7	0.784	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.739	0.000	0.045	0.001					
370	8.9	0.781	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.716	0.000	0.060	0.005					
370	9.1	1.191	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1.003	0.000	0.155	0.033	0.000					
350	7.9	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.003	0.000	0.000					
350	8.1	0.006	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.002	0.004	0.000	0.000					
350	8.3	0.004	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.004	0.000	0.000	0.000					
350	8.5	0.015	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.015	0.000	0.001	0.000					

330	7.9	0.005	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.002	0.002	0.000	0.000					
330	8.1	0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.010	0.000	0.000	0.000					
330	8.3	0.006	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.006	0.000	0.000	0.000					
330	8.5	0.081	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.001	0.073	0.000	0.006	0.000					
330	8.7	0.077	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.009	0.059	0.001	0.007	0.001					
330	8.9	0.094	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.077	0.000	0.014	0.002	0.000					
310	7.9	0.013	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.013	0.000	0.000	0.000					
310	8.1	0.031	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.029	0.000	0.001	0.001					
310	8.3	0.019	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.017	0.000	0.001	0.000					
310	8.5	0.128	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.084	0.028	0.009	0.005	0.002					
310	8.7	0.179	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.148	0.000	0.027	0.002	0.002					
310	8.9	0.964	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.751	0.000	0.180	0.033	0.000					
310	9.1	1.176	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.857	0.258	0.004	0.056	0.000					
310	9.3	1.693	0.000	0.000	0.000	0.000	0.000	0.000	1.054
0.000	0.460	0.178	0.000	0.000					
290	6.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
290	6.7	0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.010					
290	6.9	0.046	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.035	0.012					
290	7.1	0.105	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.065	0.040	0.000					
290	7.3	0.014	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.002	0.012	0.000	0.000					
290	7.5	0.007	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.007	0.000	0.000	0.000					
290	7.7	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
290	7.9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
270	6.5	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.002					
270	6.7	0.024	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.009	0.015					
270	6.9	0.080	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.009	0.071	0.000					

270	7.1	0.193	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.171	0.022	0.000					
270	7.3	0.036	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.025	0.010	0.000	0.000					
270	7.5	0.026	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.004	0.022	0.000	0.000	0.000					
270	7.7	0.004	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.003	0.001	0.000	0.000	0.000					
270	7.9	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.001	0.000	0.000	0.000	0.000					
250	6.3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
250	6.5	0.007	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.007					
250	6.7	0.031	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.028	0.003					
250	6.9	0.081	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.053	0.028	0.000					
250	7.1	0.183	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.066	0.116	0.000	0.001					
250	7.3	0.032	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.003	0.028	0.000	0.000	0.000					
250	7.5	0.025	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.018	0.006	0.000	0.001	0.000					
250	7.7	0.006	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.005	0.000	0.001	0.000	0.000					
250	7.9	0.007	0.000	0.000	0.000	0.000	0.000	0.000	0.001
0.004	0.001	0.000	0.000	0.000					
230	6.3	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.001					
230	6.5	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.005	0.002					
230	6.7	0.027	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.008	0.019	0.000					
230	6.9	0.066	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.002	0.061	0.002	0.000					
230	7.1	0.135	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.115	0.016	0.002	0.003					
230	7.3	0.024	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.012	0.009	0.000	0.001	0.000					
230	7.5	0.019	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.015	0.000	0.001	0.000	0.002					
230	7.7	0.005	0.000	0.000	0.000	0.000	0.000	0.000	0.002
0.001	0.001	0.000	0.001	0.000					
230	7.9	0.006	0.000	0.000	0.000	0.000	0.000	0.000	0.004
0.001	0.001	0.000	0.000	0.000					
210	6.1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
210	6.3	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.001					

210	6.5	0.005	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.005	0.000					
210	6.7	0.012	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.009	0.003	0.000					
210	6.9	0.031	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.019	0.010	0.000	0.001					
210	7.1	0.069	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.014	0.049	0.000	0.004	0.001					
210	7.3	0.018	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.011	0.000	0.001	0.001	0.004					
210	7.5	0.017	0.000	0.000	0.000	0.000	0.000	0.000	0.006
0.003	0.001	0.001	0.004	0.003					
210	7.7	0.005	0.000	0.000	0.000	0.000	0.000	0.000	0.002
0.000	0.000	0.001	0.001	0.000					
210	7.9	0.004	0.000	0.000	0.000	0.000	0.000	0.000	0.002
0.001	0.000	0.001	0.000	0.000					
190	5.9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
190	6.1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
190	6.3	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
190	6.5	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.001	0.000	0.000					
190	6.7	0.004	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.001	0.003	0.000	0.000					
190	6.9	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.007	0.000	0.001	0.000					
190	7.1	0.022	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.012	0.002	0.002	0.001	0.007					
190	7.3	0.025	0.000	0.000	0.000	0.000	0.000	0.000	0.001
0.001	0.000	0.000	0.013	0.009					
190	7.5	0.023	0.000	0.000	0.000	0.000	0.000	0.000	0.002
0.000	0.000	0.005	0.015	0.001					
190	7.7	0.006	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.001	0.003	0.001	0.000					
190	7.9	0.004	0.000	0.000	0.000	0.000	0.000	0.001	0.001
0.000	0.001	0.001	0.000	0.000					
170	5.7	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
170	5.9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
170	6.1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
170	6.3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
170	6.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
170	6.7	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.001	0.000	0.000	0.001					

170	6.9	0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.001	0.001	0.000	0.000	0.008					
170	7.1	0.032	0.000	0.000	0.000	0.000	0.000	0.000	0.001
0.002	0.000	0.000	0.017	0.011					
170	7.3	0.059	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.014	0.042	0.003					
170	7.5	0.048	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.001	0.030	0.015	0.001					
170	7.7	0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.004	0.005	0.001	0.000					
170	7.9	0.004	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.001	0.002	0.001	0.000	0.000					
150	5.7	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
150	5.9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
150	6.1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
150	6.3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
150	6.5	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.002					
150	6.7	0.011	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.001	0.011					
150	6.9	0.035	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.023	0.012					
150	7.1	0.071	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.015	0.049	0.006					
150	7.3	0.109	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.008	0.076	0.023	0.002					
150	7.5	0.082	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.028	0.048	0.006	0.000					
150	7.7	0.015	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.003	0.009	0.002	0.000	0.000					
150	7.9	0.005	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.002	0.002	0.000	0.000	0.000					
130	5.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
130	5.7	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
130	5.9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
130	6.1	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.001					
130	6.3	0.012	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.012					
130	6.5	0.033	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.012	0.021					
130	6.7	0.069	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.055	0.014					

130	6.9	0.124	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.048	0.073	0.003					
130	7.1	0.170	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.014	0.132	0.024	0.000					
130	7.3	0.207	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.106	0.092	0.009	0.000					
130	7.5	0.126	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.020	0.089	0.016	0.001	0.000					
130	7.7	0.020	0.000	0.000	0.000	0.000	0.000	0.000	0.001
0.010	0.007	0.001	0.000	0.000					
130	7.9	0.007	0.000	0.000	0.000	0.000	0.000	0.000	0.002
0.004	0.001	0.000	0.000	0.000					
110	5.3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
110	5.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
110	5.7	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.001					
110	5.9	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.008					
110	6.1	0.031	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.007	0.024					
110	6.3	0.076	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.055	0.022					
110	6.5	0.114	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.014	0.093	0.008					
110	6.7	0.153	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.082	0.070	0.001					
110	6.9	0.210	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.025	0.168	0.017	0.000					
110	7.1	0.305	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.001	0.186	0.112	0.005	0.000					
110	7.3	0.391	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.092	0.261	0.037	0.000	0.000					
110	7.5	0.247	0.000	0.000	0.000	0.000	0.000	0.000	0.007
0.142	0.088	0.011	0.000	0.000					
110	7.7	0.035	0.000	0.000	0.000	0.000	0.000	0.000	0.010
0.021	0.004	0.000	0.000	0.000					
110	7.9	0.008	0.000	0.000	0.000	0.000	0.000	0.001	0.004
0.002	0.000	0.000	0.000	0.000					
90	5.3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
90	5.5	0.020	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.003	0.017					
90	5.7	0.053	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.024	0.030					
90	5.9	0.098	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.002	0.068	0.029					
90	6.1	0.181	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.042	0.123	0.016					

90	6.3	0.292	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.185	0.105	0.002					
90	6.5	0.349	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.047	0.267	0.035	0.000					
90	6.7	0.403	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.187	0.212	0.004	0.000					
90	6.9	0.503	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.042	0.406	0.055	0.000	0.000					
90	7.1	0.548	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.298	0.241	0.009	0.000	0.000					
90	7.3	0.529	0.000	0.000	0.000	0.000	0.000	0.000	0.066
0.392	0.070	0.000	0.000	0.000					
90	7.5	0.266	0.000	0.000	0.000	0.000	0.000	0.001	0.126
0.126	0.014	0.000	0.000	0.000					
90	7.7	0.035	0.000	0.000	0.000	0.000	0.000	0.006	0.022
0.006	0.000	0.000	0.000	0.000					
90	7.9	0.009	0.000	0.000	0.000	0.000	0.000	0.004	0.004
0.001	0.000	0.000	0.000	0.000					
70	5.1	0.020	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.020					
70	5.3	0.082	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.031	0.051					
70	5.5	0.235	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.057	0.139	0.039					
70	5.7	0.350	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.169	0.156	0.024					
70	5.9	0.459	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.064	0.256	0.130	0.010					
70	6.1	0.655	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.224	0.368	0.063	0.000					
70	6.3	0.828	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.034	0.541	0.252	0.001	0.000					
70	6.5	0.935	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.232	0.628	0.075	0.000	0.000					
70	6.7	0.925	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.514	0.403	0.007	0.000	0.000					
70	6.9	0.853	0.000	0.000	0.000	0.000	0.000	0.000	0.120
0.619	0.115	0.000	0.000	0.000					
70	7.1	0.933	0.000	0.000	0.000	0.000	0.000	0.000	0.473
0.445	0.015	0.000	0.000	0.000					
70	7.3	0.917	0.000	0.000	0.000	0.000	0.000	0.170	0.603
0.144	0.000	0.000	0.000	0.000					
70	7.5	0.455	0.000	0.000	0.000	0.000	0.006	0.191	0.227
0.031	0.000	0.000	0.000	0.000					
70	7.7	0.074	0.000	0.000	0.000	0.000	0.015	0.041	0.018
0.000	0.000	0.000	0.000	0.000					
70	7.9	0.013	0.000	0.000	0.000	0.000	0.004	0.007	0.001
0.000	0.000	0.000	0.000	0.000					
50	5.1	0.419	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.117	0.245	0.057					

50	5.3	0.749	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.053	0.420	0.251	0.025					
50	5.5	1.237	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.083	0.494	0.500	0.148	0.011					
50	5.7	1.393	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.308	0.621	0.390	0.071	0.002					
50	5.9	1.462	0.000	0.000	0.000	0.000	0.000	0.000	0.009
0.466	0.701	0.268	0.017	0.000					
50	6.1	1.759	0.000	0.000	0.000	0.000	0.000	0.000	0.172
0.877	0.636	0.075	0.000	0.000					
50	6.3	1.788	0.000	0.000	0.000	0.000	0.000	0.000	0.450
1.065	0.273	0.000	0.000	0.000					
50	6.5	1.706	0.000	0.000	0.000	0.000	0.000	0.015	0.772
0.848	0.071	0.000	0.000	0.000					
50	6.7	1.505	0.000	0.000	0.000	0.000	0.000	0.110	0.812
0.583	0.000	0.000	0.000	0.000					
50	6.9	1.372	0.000	0.000	0.000	0.000	0.000	0.328	0.869
0.176	0.000	0.000	0.000	0.000					
50	7.1	1.212	0.000	0.000	0.000	0.000	0.033	0.582	0.554
0.044	0.000	0.000	0.000	0.000					
50	7.3	0.920	0.000	0.000	0.000	0.000	0.169	0.578	0.173
0.000	0.000	0.000	0.000	0.000					
50	7.5	0.444	0.000	0.000	0.000	0.013	0.159	0.230	0.042
0.000	0.000	0.000	0.000	0.000					
50	7.7	0.050	0.000	0.000	0.000	0.006	0.028	0.015	0.001
0.000	0.000	0.000	0.000	0.000					
50	7.9	0.013	0.000	0.000	0.000	0.004	0.007	0.002	0.000
0.000	0.000	0.000	0.000	0.000					
30	5.1	2.887	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.964	1.161	0.655	0.100	0.007					
30	5.3	3.549	0.000	0.000	0.000	0.000	0.000	0.000	0.623
1.449	1.127	0.312	0.038	0.000					
30	5.5	4.074	0.000	0.000	0.000	0.000	0.000	0.501	1.234
1.535	0.662	0.142	0.001	0.000					
30	5.7	3.767	0.000	0.000	0.000	0.000	0.048	0.723	1.469
1.074	0.427	0.026	0.000	0.000					
30	5.9	3.327	0.000	0.000	0.000	0.000	0.147	0.885	1.376
0.779	0.141	0.000	0.000	0.000					
30	6.1	3.150	0.000	0.000	0.000	0.000	0.307	1.251	1.226
0.362	0.004	0.000	0.000	0.000					
30	6.3	2.889	0.000	0.000	0.000	0.031	0.788	1.201	0.820
0.049	0.000	0.000	0.000	0.000					
30	6.5	2.229	0.000	0.000	0.000	0.089	0.670	1.092	0.377
0.000	0.000	0.000	0.000	0.000					
30	6.7	1.817	0.000	0.000	0.006	0.151	0.683	0.786	0.192
0.000	0.000	0.000	0.000	0.000					
30	6.9	1.557	0.000	0.000	0.028	0.260	0.709	0.533	0.025
0.000	0.000	0.000	0.000	0.000					
30	7.1	1.312	0.000	0.003	0.068	0.385	0.639	0.217	0.000
0.000	0.000	0.000	0.000	0.000					

30	7.3	1.142	0.000	0.014	0.115	0.472	0.467	0.073	0.000
0.000	0.000	0.000	0.000	0.000					
30	7.5	0.544	0.000	0.014	0.087	0.260	0.163	0.020	0.000
0.000	0.000	0.000	0.000	0.000					
30	7.7	0.050	0.000	0.002	0.012	0.025	0.010	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
30	7.9	0.010	0.000	0.001	0.003	0.005	0.001	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
10	5.1	5.150	0.000	0.000	0.033	0.519	0.617	1.477	1.741
0.665	0.098	0.000	0.000	0.000					
10	5.3	4.613	0.000	0.072	0.153	0.493	0.959	1.659	1.074
0.194	0.008	0.000	0.000	0.000					
10	5.5	3.894	0.017	0.094	0.381	0.566	1.256	1.114	0.461
0.005	0.000	0.000	0.000	0.000					
10	5.7	2.949	0.049	0.028	0.319	0.636	1.106	0.742	0.069
0.000	0.000	0.000	0.000	0.000					
10	5.9	2.176	0.053	0.148	0.269	0.552	0.859	0.294	0.000
0.000	0.000	0.000	0.000	0.000					
10	6.1	2.269	0.059	0.244	0.498	0.728	0.687	0.053	0.000
0.000	0.000	0.000	0.000	0.000					
10	6.3	1.683	0.107	0.272	0.500	0.573	0.230	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
10	6.5	1.419	0.142	0.280	0.391	0.486	0.120	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
10	6.7	1.139	0.135	0.255	0.337	0.381	0.031	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
10	6.9	0.872	0.124	0.224	0.312	0.212	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
10	7.1	0.649	0.115	0.192	0.266	0.076	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
10	7.3	0.468	0.094	0.154	0.199	0.021	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
10	7.5	0.191	0.048	0.064	0.076	0.004	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
10	7.7	0.014	0.005	0.005	0.004	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
10	7.9	0.003	0.001	0.001	0.001	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					

Principal Sources (faults, subduction, random seismicity having > 3% contribution

WUSmap_2014_fixSm.ch.in (opt):

Percent Contributed: 11.79

Distance (km): 35.142232

Magnitude: 6.0792013

Epsilon (mean values): 0.10556882

noPuget_2014_fixSm.ch.in (opt):

Percent Contributed: 11.79

Distance (km): 35.133288

Magnitude: 6.0791235

Epsilon (mean values): 0.10543761

WUSmap_2014_fixSm.gr.in (opt):

Percent Contributed: 11.62
Distance (km): 34.636512
Magnitude: 6.0672791
Epsilon (mean values): 0.096027807
noPuget_2014_fixSm.gr.in (opt):
Percent Contributed: 11.62
Distance (km): 34.627531
Magnitude: 6.0672003
Epsilon (mean values): 0.095895824
noPuget_2014_adSm.ch.in (opt):
Percent Contributed: 7.8
Distance (km): 35.069381
Magnitude: 6.0765569
Epsilon (mean values): 0.096326043
WUSmap_2014_adSm.ch.in (opt):
Percent Contributed: 7.79
Distance (km): 35.057701
Magnitude: 6.0763696
Epsilon (mean values): 0.096034698
noPuget_2014_adSm.gr.in (opt):
Percent Contributed: 7.7
Distance (km): 34.63803
Magnitude: 6.0662412
Epsilon (mean values): 0.088080349
WUSmap_2014_adSm.gr.in (opt):
Percent Contributed: 7.69
Distance (km): 34.627379
Magnitude: 6.0660735
Epsilon (mean values): 0.087810247
sub0_ch_bot.in:
Percent Contributed: 3.7
Distance (km): 308.17316
Magnitude: 9.121988
Epsilon (mean values): 0.80217222
Cascadia Megathrust - whole CSZ Characteristic:
Percent Contributed: 3.7
Distance (km): 308.17316
Magnitude: 9.121988
Epsilon (mean values): 0.80217222
Azimuth: 285.86185
Latitude: 46.3
Longitude: -123.4132
WUSmap_2014_fixSm_M8.in (opt):
Percent Contributed: 2.88
Distance (km): 38.031651
Magnitude: 6.2011773
Epsilon (mean values): 0.080904506
noPuget_2014_fixSm_M8.in (opt):
Percent Contributed: 2.88
Distance (km): 37.985608

Magnitude: 6.2007456
Epsilon (mean values): 0.08035107
sub0_ch_mid.in:
Percent Contributed: 2.62
Distance (km): 361.47413
Magnitude: 8.9242121
Epsilon (mean values): 1.1173804
Cascadia Megathrust - whole CSZ Characteristic:
Percent Contributed: 2.62
Distance (km): 361.47413
Magnitude: 8.9242121
Epsilon (mean values): 1.1173804
Azimuth: 283.89391
Latitude: 46.3
Longitude: -124.13677
noPuget_2014_adSm_M8.in (opt):
Percent Contributed: 1.91
Distance (km): 38.053956
Magnitude: 6.1993793
Epsilon (mean values): 0.073869501
WUSmap_2014_adSm_M8.in (opt):
Percent Contributed: 1.9
Distance (km): 38.062301
Magnitude: 6.1992893
Epsilon (mean values): 0.073837079
PSHA Deaggregation. %contributions.
site: Test
longitude: 119.584°W
latitude: 45.612°E
imt: Peak Ground Acceleration
vs30 = 259 m/s (Site class D)
return period: 475 yrs.
#This deaggregation corresponds to: GMM: Abrahamson, Silva & Kamai (2014)
Summary statistics for PSHA PGA deaggregation, r=distance, ε=epsilon:
Deaggregation targets:
Return period: 475 yrs
Exceedance rate: 0.0021052632 yr⁻¹
PGA ground motion: 0.10404746 g
Recovered targets:
Return period: 480.28208 yrs
Exceedance rate: 0.0020821098 yr⁻¹
Totals:
Binned: 23.87 %
Residual: 0 %
Trace: 0.22 %
Mean (over all sources):
m: 6.05
r: 36.1 km
ε₀: 0.2 σ
Mode (largest m-r bin):

0.000	0.000	0.192	0.088	0.000					
50	5.5	0.320	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.071	0.204	0.045	0.000					
50	5.7	0.353	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.212	0.141	0.000	0.000					
50	5.9	0.382	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.059	0.252	0.072	0.000	0.000					
50	6.1	0.468	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.282	0.185	0.000	0.000	0.000					
50	6.3	0.482	0.000	0.000	0.000	0.000	0.000	0.000	0.129
0.315	0.038	0.000	0.000	0.000					
50	6.5	0.433	0.000	0.000	0.000	0.000	0.000	0.000	0.193
0.235	0.005	0.000	0.000	0.000					
50	6.7	0.368	0.000	0.000	0.000	0.000	0.000	0.000	0.202
0.166	0.000	0.000	0.000	0.000					
50	6.9	0.339	0.000	0.000	0.000	0.000	0.000	0.058	0.247
0.034	0.000	0.000	0.000	0.000					
50	7.1	0.300	0.000	0.000	0.000	0.000	0.000	0.141	0.159
0.000	0.000	0.000	0.000	0.000					
50	7.3	0.230	0.000	0.000	0.000	0.000	0.016	0.175	0.039
0.000	0.000	0.000	0.000	0.000					
50	7.5	0.112	0.000	0.000	0.000	0.000	0.035	0.077	0.000
0.000	0.000	0.000	0.000	0.000					
50	7.7	0.013	0.000	0.000	0.000	0.000	0.010	0.003	0.000
0.000	0.000	0.000	0.000	0.000					
50	7.9	0.003	0.000	0.000	0.000	0.001	0.003	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
30	5.1	1.196	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.579	0.437	0.180	0.000	0.000					
30	5.3	1.117	0.000	0.000	0.000	0.000	0.000	0.000	0.186
0.524	0.366	0.040	0.000	0.000					
30	5.5	1.030	0.000	0.000	0.000	0.000	0.000	0.000	0.341
0.416	0.273	0.000	0.000	0.000					
30	5.7	0.941	0.000	0.000	0.000	0.000	0.000	0.070	0.438
0.344	0.088	0.000	0.000	0.000					
30	5.9	0.843	0.000	0.000	0.000	0.000	0.000	0.201	0.347
0.295	0.000	0.000	0.000	0.000					
30	6.1	0.796	0.000	0.000	0.000	0.000	0.011	0.327	0.395
0.063	0.000	0.000	0.000	0.000					
30	6.3	0.727	0.000	0.000	0.000	0.000	0.182	0.330	0.215
0.000	0.000	0.000	0.000	0.000					
30	6.5	0.541	0.000	0.000	0.000	0.000	0.144	0.285	0.113
0.000	0.000	0.000	0.000	0.000					
30	6.7	0.437	0.000	0.000	0.000	0.012	0.149	0.221	0.054
0.000	0.000	0.000	0.000	0.000					
30	6.9	0.380	0.000	0.000	0.000	0.035	0.178	0.167	0.000
0.000	0.000	0.000	0.000	0.000					
30	7.1	0.322	0.000	0.000	0.000	0.086	0.170	0.067	0.000
0.000	0.000	0.000	0.000	0.000					
30	7.3	0.282	0.000	0.000	0.004	0.116	0.156	0.005	0.000

0.000	0.000	0.000	0.000	0.000					
30	7.5	0.135	0.000	0.000	0.012	0.071	0.052	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
30	7.7	0.012	0.000	0.000	0.002	0.008	0.002	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
30	7.9	0.002	0.000	0.000	0.001	0.002	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
10	5.1	1.593	0.000	0.000	0.000	0.212	0.171	0.591	0.586
0.032	0.000	0.000	0.000	0.000					
10	5.3	1.239	0.000	0.000	0.069	0.121	0.289	0.487	0.273
0.000	0.000	0.000	0.000	0.000					
10	5.5	0.953	0.000	0.000	0.106	0.076	0.288	0.392	0.091
0.000	0.000	0.000	0.000	0.000					
10	5.7	0.719	0.000	0.000	0.075	0.109	0.288	0.247	0.000
0.000	0.000	0.000	0.000	0.000					
10	5.9	0.534	0.000	0.053	0.032	0.111	0.262	0.077	0.000
0.000	0.000	0.000	0.000	0.000					
10	6.1	0.558	0.000	0.060	0.107	0.173	0.208	0.010	0.000
0.000	0.000	0.000	0.000	0.000					
10	6.3	0.414	0.016	0.045	0.116	0.153	0.085	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
10	6.5	0.348	0.023	0.048	0.099	0.121	0.057	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
10	6.7	0.280	0.020	0.052	0.083	0.104	0.022	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
10	6.9	0.216	0.019	0.046	0.073	0.076	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
10	7.1	0.161	0.020	0.038	0.080	0.023	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
10	7.3	0.116	0.014	0.033	0.065	0.005	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
10	7.5	0.048	0.008	0.015	0.025	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
10	7.7	0.004	0.001	0.002	0.001	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
10	7.9	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					

Principal Sources (faults, subduction, random seismicity having > 3% contribution

WUSmap_2014_fixSm.ch.in (opt):

Percent Contributed: 3.15

Distance (km): 35.114537

Magnitude: 6.0247722

Epsilon (mean values): 0.19804452

noPuget_2014_fixSm.ch.in (opt):

Percent Contributed: 3.14

Distance (km): 35.107789

Magnitude: 6.0247084

Epsilon (mean values): 0.19794357

WUSmap_2014_fixSm.gr.in (opt):

Percent Contributed: 3.1

Distance (km): 34.643341
Magnitude: 6.0129213
Epsilon (mean values): 0.19004516
noPuget_2014_fixSm.gr.in (opt):
Percent Contributed: 3.1
Distance (km): 34.636517
Magnitude: 6.0128564
Epsilon (mean values): 0.18994302
noPuget_2014_adSm.ch.in (opt):
Percent Contributed: 2.08
Distance (km): 35.032436
Magnitude: 6.0224004
Epsilon (mean values): 0.18818391
WUSmap_2014_adSm.ch.in (opt):
Percent Contributed: 2.08
Distance (km): 35.020006
Magnitude: 6.0222042
Epsilon (mean values): 0.18789207
noPuget_2014_adSm.gr.in (opt):
Percent Contributed: 2.06
Distance (km): 34.630296
Magnitude: 6.0121453
Epsilon (mean values): 0.1812632
WUSmap_2014_adSm.gr.in (opt):
Percent Contributed: 2.05
Distance (km): 34.618904
Magnitude: 6.0119694
Epsilon (mean values): 0.18099071
PSHA Deaggregation. %contributions.
site: Test
longitude: 119.584°W
latitude: 45.612°E
imt: Peak Ground Acceleration
vs30 = 259 m/s (Site class D)
return period: 475 yrs.
#This deaggregation corresponds to: GMM: Boore, Stewart, Seyhan & Atkinson (2014)
Summary statistics for PSHA PGA deaggregation, r=distance, ε=epsilon:
Deaggregation targets:
Return period: 475 yrs
Exceedance rate: 0.0021052632 yr⁻¹
PGA ground motion: 0.10404746 g
Recovered targets:
Return period: 480.28208 yrs
Exceedance rate: 0.0020821098 yr⁻¹
Totals:
Binned: 28.91 %
Residual: 0 %
Trace: 0.26 %
Mean (over all sources):
m: 6.05

150	7.5	0.019	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.019	0.000	0.000					
150	7.7	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.002	0.001	0.000	0.000					
150	7.9	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.001	0.000	0.000	0.000					
130	6.1	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.001					
130	6.3	0.005	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.005					
130	6.5	0.015	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.008	0.007					
130	6.7	0.028	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.026	0.001					
130	6.9	0.041	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.020	0.021	0.000					
130	7.1	0.050	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.047	0.003	0.000					
130	7.3	0.054	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.021	0.032	0.000	0.000					
130	7.5	0.031	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.027	0.004	0.000	0.000					
130	7.7	0.005	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.001	0.003	0.000	0.000	0.000					
130	7.9	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.001	0.000	0.000	0.000	0.000					
110	5.7	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.001					
110	5.9	0.007	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.007					
110	6.1	0.017	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.006	0.011					
110	6.3	0.029	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.024	0.005					
110	6.5	0.042	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.011	0.031	0.000					
110	6.7	0.056	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.045	0.012	0.000					
110	6.9	0.067	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.013	0.055	0.000	0.000					
110	7.1	0.088	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.059	0.029	0.000	0.000					
110	7.3	0.104	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.010	0.094	0.000	0.000	0.000					
110	7.5	0.063	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.029	0.033	0.000	0.000	0.000					
110	7.7	0.009	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.008	0.000	0.000	0.000	0.000					
110	7.9	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.001
0.001	0.000	0.000	0.000	0.000					

90	5.3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
90	5.5	0.017	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.003	0.014					
90	5.7	0.038	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.024	0.015					
90	5.9	0.058	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.002	0.050	0.006					
90	6.1	0.082	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.037	0.045	0.000					
90	6.3	0.104	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.086	0.017	0.000					
90	6.5	0.121	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.038	0.083	0.000	0.000					
90	6.7	0.141	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.108	0.034	0.000	0.000					
90	6.9	0.158	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.029	0.129	0.001	0.000	0.000					
90	7.1	0.160	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.109	0.050	0.000	0.000	0.000					
90	7.3	0.144	0.000	0.000	0.000	0.000	0.000	0.000	0.008
0.132	0.005	0.000	0.000	0.000					
90	7.5	0.069	0.000	0.000	0.000	0.000	0.000	0.000	0.030
0.040	0.000	0.000	0.000	0.000					
90	7.7	0.009	0.000	0.000	0.000	0.000	0.000	0.000	0.008
0.001	0.000	0.000	0.000	0.000					
90	7.9	0.002	0.000	0.000	0.000	0.000	0.000	0.001	0.002
0.000	0.000	0.000	0.000	0.000					
70	5.1	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.002					
70	5.3	0.040	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.019	0.021					
70	5.5	0.152	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.057	0.088	0.007					
70	5.7	0.207	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.157	0.051	0.000					
70	5.9	0.235	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.064	0.159	0.013	0.000					
70	6.1	0.277	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.179	0.098	0.000	0.000					
70	6.3	0.288	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.034	0.228	0.026	0.000	0.000					
70	6.5	0.312	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.165	0.147	0.000	0.000	0.000					
70	6.7	0.309	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.252	0.057	0.000	0.000	0.000					
70	6.9	0.262	0.000	0.000	0.000	0.000	0.000	0.000	0.088
0.174	0.000	0.000	0.000	0.000					
70	7.1	0.270	0.000	0.000	0.000	0.000	0.000	0.000	0.194
0.077	0.000	0.000	0.000	0.000					

30	6.3	0.807	0.000	0.000	0.000	0.020	0.259	0.393	0.134
0.000	0.000	0.000	0.000	0.000	0.000				
30	6.5	0.606	0.000	0.000	0.000	0.031	0.236	0.324	0.014
0.000	0.000	0.000	0.000	0.000	0.000				
30	6.7	0.495	0.000	0.000	0.000	0.061	0.233	0.201	0.000
0.000	0.000	0.000	0.000	0.000	0.000				
30	6.9	0.411	0.000	0.000	0.001	0.086	0.225	0.099	0.000
0.000	0.000	0.000	0.000	0.000	0.000				
30	7.1	0.339	0.000	0.000	0.012	0.121	0.196	0.011	0.000
0.000	0.000	0.000	0.000	0.000	0.000				
30	7.3	0.292	0.000	0.000	0.016	0.144	0.132	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000				
30	7.5	0.138	0.000	0.000	0.012	0.088	0.038	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000				
30	7.7	0.013	0.000	0.000	0.003	0.009	0.001	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000				
30	7.9	0.003	0.000	0.000	0.001	0.002	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000				
10	5.1	1.430	0.000	0.000	0.033	0.179	0.165	0.407	0.505
0.141	0.000	0.000	0.000	0.000	0.000				
10	5.3	1.373	0.000	0.072	0.085	0.135	0.393	0.529	0.160
0.000	0.000	0.000	0.000	0.000	0.000				
10	5.5	1.174	0.017	0.094	0.101	0.318	0.522	0.121	0.000
0.000	0.000	0.000	0.000	0.000	0.000				
10	5.7	0.844	0.049	0.028	0.094	0.310	0.363	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000				
10	5.9	0.592	0.053	0.000	0.156	0.206	0.177	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000				
10	6.1	0.589	0.037	0.047	0.169	0.211	0.126	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000				
10	6.3	0.424	0.025	0.078	0.130	0.158	0.033	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000				
10	6.5	0.355	0.018	0.068	0.115	0.133	0.022	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000				
10	6.7	0.285	0.014	0.061	0.099	0.110	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000				
10	6.9	0.217	0.014	0.052	0.095	0.057	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000				
10	7.1	0.161	0.012	0.046	0.083	0.021	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000				
10	7.3	0.116	0.008	0.038	0.066	0.004	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000				
10	7.5	0.047	0.003	0.017	0.027	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000				
10	7.7	0.004	0.001	0.002	0.001	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000				
10	7.9	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000				

Principal Sources (faults, subduction, random seismicity having > 3% contribution
WUSmap_2014_fixSm.ch.in (opt):

Percent Contributed: 3.82
Distance (km): 36.885492
Magnitude: 6.0206471
Epsilon (mean values): 0.079294552
noPuget_2014_fixSm.ch.in (opt):
Percent Contributed: 3.82
Distance (km): 36.879305
Magnitude: 6.0205893
Epsilon (mean values): 0.079194553
WUSmap_2014_fixSm.gr.in (opt):
Percent Contributed: 3.76
Distance (km): 36.414326
Magnitude: 6.0085993
Epsilon (mean values): 0.071167172
noPuget_2014_fixSm.gr.in (opt):
Percent Contributed: 3.76
Distance (km): 36.408069
Magnitude: 6.0085405
Epsilon (mean values): 0.071065979
noPuget_2014_adSm.ch.in (opt):
Percent Contributed: 2.52
Distance (km): 36.797531
Magnitude: 6.018852
Epsilon (mean values): 0.069313631
WUSmap_2014_adSm.ch.in (opt):
Percent Contributed: 2.51
Distance (km): 36.785245
Magnitude: 6.0186708
Epsilon (mean values): 0.068992465
noPuget_2014_adSm.gr.in (opt):
Percent Contributed: 2.49
Distance (km): 36.394068
Magnitude: 6.0083974
Epsilon (mean values): 0.062283746
WUSmap_2014_adSm.gr.in (opt):
Percent Contributed: 2.48
Distance (km): 36.382834
Magnitude: 6.0082371
Epsilon (mean values): 0.061982546

PSHA Deaggregation. %contributions.

site: Test

longitude: 119.584°W

latitude: 45.612°E

imt: Peak Ground Acceleration

vs30 = 259 m/s (Site class D)

return period: 475 yrs.

#This deaggregation corresponds to: GMM: Campbell & Bozorgnia (2014)

Summary statistics for PSHA PGA deaggregation, r=distance, ε=epsilon:

Deaggregation targets:

Return period: 475 yrs

0.055	0.168	0.092	0.038	0.000					
30	5.5	0.528	0.000	0.000	0.000	0.000	0.000	0.000	0.044
0.230	0.159	0.096	0.001	0.000					
30	5.7	0.577	0.000	0.000	0.000	0.000	0.000	0.000	0.160
0.229	0.161	0.026	0.000	0.000					
30	5.9	0.583	0.000	0.000	0.000	0.000	0.000	0.048	0.243
0.184	0.107	0.000	0.000	0.000					
30	6.1	0.634	0.000	0.000	0.000	0.000	0.000	0.222	0.223
0.184	0.004	0.000	0.000	0.000					
30	6.3	0.641	0.000	0.000	0.000	0.000	0.132	0.223	0.249
0.037	0.000	0.000	0.000	0.000					
30	6.5	0.520	0.000	0.000	0.000	0.011	0.133	0.233	0.143
0.000	0.000	0.000	0.000	0.000					
30	6.7	0.417	0.000	0.000	0.000	0.015	0.126	0.180	0.096
0.000	0.000	0.000	0.000	0.000					
30	6.9	0.353	0.000	0.000	0.000	0.034	0.135	0.159	0.025
0.000	0.000	0.000	0.000	0.000					
30	7.1	0.298	0.000	0.000	0.000	0.043	0.129	0.125	0.000
0.000	0.000	0.000	0.000	0.000					
30	7.3	0.260	0.000	0.000	0.003	0.072	0.118	0.067	0.000
0.000	0.000	0.000	0.000	0.000					
30	7.5	0.124	0.000	0.000	0.004	0.038	0.063	0.020	0.000
0.000	0.000	0.000	0.000	0.000					
30	7.7	0.011	0.000	0.000	0.000	0.004	0.007	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
30	7.9	0.002	0.000	0.000	0.000	0.001	0.001	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
10	5.1	0.830	0.000	0.000	0.000	0.000	0.109	0.133	0.227
0.263	0.098	0.000	0.000	0.000					
10	5.3	0.880	0.000	0.000	0.000	0.090	0.119	0.222	0.286
0.155	0.008	0.000	0.000	0.000					
10	5.5	0.854	0.000	0.000	0.087	0.094	0.185	0.267	0.216
0.005	0.000	0.000	0.000	0.000					
10	5.7	0.675	0.000	0.000	0.075	0.108	0.193	0.242	0.057
0.000	0.000	0.000	0.000	0.000					
10	5.9	0.512	0.000	0.052	0.032	0.089	0.202	0.136	0.000
0.000	0.000	0.000	0.000	0.000					
10	6.1	0.551	0.011	0.060	0.102	0.156	0.179	0.043	0.000
0.000	0.000	0.000	0.000	0.000					
10	6.3	0.417	0.033	0.064	0.113	0.125	0.082	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
10	6.5	0.355	0.043	0.077	0.083	0.117	0.034	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
10	6.7	0.284	0.041	0.064	0.070	0.100	0.009	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
10	6.9	0.217	0.031	0.052	0.069	0.065	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
10	7.1	0.161	0.024	0.039	0.067	0.032	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
10	7.3	0.116	0.018	0.031	0.056	0.012	0.000	0.000	0.000

0.000	0.000	0.000	0.000	0.000					
10	7.5	0.047	0.009	0.013	0.022	0.004	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
10	7.7	0.004	0.001	0.001	0.002	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
10	7.9	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					

Principal Sources (faults, subduction, random seismicity having > 3% contribution

WUSmap_2014_fixSm.ch.in (opt):

Percent Contributed: 2.08

Distance (km): 31.199856

Magnitude: 6.1757036

Epsilon (mean values): 0.073879243

noPuget_2014_fixSm.ch.in (opt):

Percent Contributed: 2.08

Distance (km): 31.198983

Magnitude: 6.175695

Epsilon (mean values): 0.073862157

WUSmap_2014_fixSm.gr.in (opt):

Percent Contributed: 2.04

Distance (km): 30.663291

Magnitude: 6.1651138

Epsilon (mean values): 0.060687618

noPuget_2014_fixSm.gr.in (opt):

Percent Contributed: 2.04

Distance (km): 30.662404

Magnitude: 6.165105

Epsilon (mean values): 0.060670252

noPuget_2014_adSm.ch.in (opt):

Percent Contributed: 1.37

Distance (km): 31.028119

Magnitude: 6.1701186

Epsilon (mean values): 0.06397751

WUSmap_2014_adSm.ch.in (opt):

Percent Contributed: 1.37

Distance (km): 31.017685

Magnitude: 6.169956

Epsilon (mean values): 0.063694356

noPuget_2014_adSm.gr.in (opt):

Percent Contributed: 1.36

Distance (km): 30.568564

Magnitude: 6.1609047

Epsilon (mean values): 0.052561878

WUSmap_2014_adSm.gr.in (opt):

Percent Contributed: 1.35

Distance (km): 30.559186

Magnitude: 6.1607588

Epsilon (mean values): 0.052305152

PSHA Deaggregation. %contributions.

site: Test

longitude: 119.584°W
latitude: 45.612°E
imt: Peak Ground Acceleration
vs30 = 259 m/s (Site class D)
return period: 475 yrs.
#This deaggregation corresponds to: GMM: Chiou & Youngs (2014)
Summary statistics for PSHA PGA deaggregation, r=distance, ε=epsilon:

Deaggregation targets:
Return period: 475 yrs
Exceedance rate: 0.0021052632 yr⁻¹
PGA ground motion: 0.10404746 g

Recovered targets:
Return period: 480.28208 yrs
Exceedance rate: 0.0020821098 yr⁻¹

Totals:
Binned: 21.17 %
Residual: 0 %
Trace: 0.26 %

Mean (over all sources):
m: 6.19
r: 37.31 km
ε₀: 0.07 σ

Mode (largest m-r bin):
m: 5.1
r: 12.03 km
ε₀: -0.05 σ
Contribution: 1.3 %

Mode (largest m-r-ε₀ bin):
m: 5.11
r: 14.37 km
ε₀: 0.27 σ
Contribution: 0.42 %

Discretization:
r: min = 0.0, max = 1000.0, Δ = 20.0 km
m: min = 4.4, max = 9.4, Δ = 0.2
ε: min = -3.0, max = 3.0, Δ = 0.5 σ

Epsilon keys:
ε0: [-∞ .. -2.5)
ε1: [-2.5 .. -2.0)
ε2: [-2.0 .. -1.5)
ε3: [-1.5 .. -1.0)
ε4: [-1.0 .. -0.5)
ε5: [-0.5 .. 0.0)
ε6: [0.0 .. 0.5)
ε7: [0.5 .. 1.0)
ε8: [1.0 .. 1.5)
ε9: [1.5 .. 2.0)
ε10: [2.0 .. 2.5)
ε11: [2.5 .. +∞)

Closest Distance, rRup (km) Magnitude (Mw) ALL_ε ε=(-∞, -2.5) ε=[-2.5, -2)

$\epsilon = [-2, -1.5)$ $\epsilon = [0.5, 1)$	$\epsilon = [-1.5, -1)$ $\epsilon = [1, 1.5)$	$\epsilon = [-1, -0.5)$ $\epsilon = [1.5, 2)$	$\epsilon = [-0.5, 0)$ $\epsilon = [2, 2.5)$	$\epsilon = [0, 0.5)$ $\epsilon = [2.5, \infty)$					
290	7.7	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
290	7.9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
270	7.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
270	7.7	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
270	7.9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
250	7.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
250	7.7	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
250	7.9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
230	7.3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
230	7.5	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.001					
230	7.7	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.001	0.000					
230	7.9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
210	7.1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
210	7.3	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.001	0.002					
210	7.5	0.004	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.004	0.001					
210	7.7	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.001	0.000	0.000					
210	7.9	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
190	6.9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
190	7.1	0.004	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.001	0.003					
190	7.3	0.012	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.010	0.002					
190	7.5	0.011	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.005	0.006	0.000					
190	7.7	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.001	0.002	0.000	0.000					
190	7.9	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.001	0.000	0.000	0.000					
170	6.7	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					

170	6.9	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.003					
170	7.1	0.013	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.010	0.003					
170	7.3	0.027	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.014	0.013	0.000					
170	7.5	0.023	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.001	0.020	0.001	0.000					
170	7.7	0.005	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.004	0.001	0.000	0.000					
170	7.9	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.001	0.001	0.000	0.000	0.000					
150	6.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
150	6.7	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.002					
150	6.9	0.012	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.009	0.003					
150	7.1	0.027	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.012	0.014	0.001					
150	7.3	0.047	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.008	0.036	0.002	0.000					
150	7.5	0.036	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.027	0.009	0.000	0.000					
150	7.7	0.007	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.003	0.003	0.000	0.000	0.000					
150	7.9	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.002	0.000	0.000	0.000	0.000					
130	6.3	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.002					
130	6.5	0.006	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.006					
130	6.7	0.017	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.013	0.004					
130	6.9	0.040	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.020	0.020	0.000					
130	7.1	0.063	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.014	0.048	0.001	0.000					
130	7.3	0.082	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.070	0.013	0.000	0.000					
130	7.5	0.051	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.020	0.032	0.000	0.000	0.000					
130	7.7	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.001
0.006	0.000	0.000	0.000	0.000					
130	7.9	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.002
0.001	0.000	0.000	0.000	0.000					
110	5.9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
110	6.1	0.005	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.005					

110	6.3	0.016	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.008	0.007					
110	6.5	0.023	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.020	0.002					
110	6.7	0.036	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.015	0.021	0.000					
110	6.9	0.062	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.010	0.050	0.002	0.000					
110	7.1	0.103	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.001	0.083	0.018	0.000	0.000					
110	7.3	0.142	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.073	0.069	0.000	0.000	0.000					
110	7.5	0.093	0.000	0.000	0.000	0.000	0.000	0.000	0.007
0.082	0.004	0.000	0.000	0.000					
110	7.7	0.013	0.000	0.000	0.000	0.000	0.000	0.000	0.010
0.004	0.000	0.000	0.000	0.000					
110	7.9	0.003	0.000	0.000	0.000	0.000	0.000	0.001	0.002
0.000	0.000	0.000	0.000	0.000					
90	5.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
90	5.7	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.003					
90	5.9	0.013	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.003	0.010					
90	6.1	0.033	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.027	0.006					
90	6.3	0.058	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.023	0.035	0.000					
90	6.5	0.069	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.055	0.014	0.000					
90	6.7	0.091	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.031	0.059	0.001	0.000					
90	6.9	0.136	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.013	0.114	0.009	0.000	0.000					
90	7.1	0.166	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.129	0.037	0.000	0.000	0.000					
90	7.3	0.171	0.000	0.000	0.000	0.000	0.000	0.000	0.059
0.110	0.002	0.000	0.000	0.000					
90	7.5	0.088	0.000	0.000	0.000	0.000	0.000	0.001	0.075
0.012	0.000	0.000	0.000	0.000					
90	7.7	0.012	0.000	0.000	0.000	0.000	0.000	0.006	0.005
0.000	0.000	0.000	0.000	0.000					
90	7.9	0.003	0.000	0.000	0.000	0.000	0.000	0.002	0.000
0.000	0.000	0.000	0.000	0.000					
70	5.1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
70	5.3	0.005	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.005					
70	5.5	0.021	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.005	0.015					

70	5.7	0.044	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.033	0.011					
70	5.9	0.072	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.020	0.050	0.002					
70	6.1	0.121	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.001	0.097	0.023	0.000					
70	6.3	0.166	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.083	0.083	0.000	0.000					
70	6.5	0.192	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.010	0.149	0.033	0.000	0.000					
70	6.7	0.211	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.102	0.106	0.003	0.000	0.000					
70	6.9	0.223	0.000	0.000	0.000	0.000	0.000	0.000	0.028
0.170	0.024	0.000	0.000	0.000					
70	7.1	0.267	0.000	0.000	0.000	0.000	0.000	0.000	0.186
0.081	0.000	0.000	0.000	0.000					
70	7.3	0.275	0.000	0.000	0.000	0.000	0.000	0.124	0.146
0.006	0.000	0.000	0.000	0.000					
70	7.5	0.139	0.000	0.000	0.000	0.000	0.006	0.101	0.031
0.000	0.000	0.000	0.000	0.000					
70	7.7	0.023	0.000	0.000	0.000	0.000	0.015	0.008	0.000
0.000	0.000	0.000	0.000	0.000					
70	7.9	0.004	0.000	0.000	0.000	0.000	0.003	0.001	0.000
0.000	0.000	0.000	0.000	0.000					
50	5.1	0.059	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.039	0.020					
50	5.3	0.113	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.022	0.077	0.014					
50	5.5	0.167	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.104	0.062	0.001					
50	5.7	0.214	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.046	0.138	0.030	0.000					
50	5.9	0.260	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.157	0.102	0.000	0.000					
50	6.1	0.358	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.147	0.190	0.021	0.000	0.000					
50	6.3	0.393	0.000	0.000	0.000	0.000	0.000	0.000	0.045
0.245	0.103	0.000	0.000	0.000					
50	6.5	0.386	0.000	0.000	0.000	0.000	0.000	0.000	0.143
0.216	0.027	0.000	0.000	0.000					
50	6.7	0.362	0.000	0.000	0.000	0.000	0.000	0.015	0.174
0.173	0.000	0.000	0.000	0.000					
50	6.9	0.362	0.000	0.000	0.000	0.000	0.000	0.106	0.235
0.022	0.000	0.000	0.000	0.000					
50	7.1	0.338	0.000	0.000	0.000	0.000	0.030	0.207	0.102
0.000	0.000	0.000	0.000	0.000					
50	7.3	0.263	0.000	0.000	0.000	0.000	0.102	0.153	0.008
0.000	0.000	0.000	0.000	0.000					
50	7.5	0.128	0.000	0.000	0.000	0.013	0.075	0.039	0.000
0.000	0.000	0.000	0.000	0.000					

10	6.7	0.290	0.060	0.078	0.086	0.067	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
10	6.9	0.222	0.059	0.074	0.075	0.014	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
10	7.1	0.165	0.060	0.069	0.036	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
10	7.3	0.119	0.054	0.052	0.013	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
10	7.5	0.048	0.027	0.019	0.002	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
10	7.7	0.004	0.003	0.001	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
10	7.9	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					

Principal Sources (faults, subduction, random seismicity having > 3% contribution

WUSmap_2014_fixSm.ch.in (opt):

Percent Contributed: 2.76

Distance (km): 35.728093

Magnitude: 6.149706

Epsilon (mean values): 0.060299659

noPuget_2014_fixSm.ch.in (opt):

Percent Contributed: 2.76

Distance (km): 35.706914

Magnitude: 6.1495361

Epsilon (mean values): 0.060001711

WUSmap_2014_fixSm.gr.in (opt):

Percent Contributed: 2.71

Distance (km): 35.156928

Magnitude: 6.1371155

Epsilon (mean values): 0.049611501

noPuget_2014_fixSm.gr.in (opt):

Percent Contributed: 2.71

Distance (km): 35.135765

Magnitude: 6.136944

Epsilon (mean values): 0.049313245

noPuget_2014_adSm.ch.in (opt):

Percent Contributed: 1.83

Distance (km): 35.770215

Magnitude: 6.1472946

Epsilon (mean values): 0.053360297

WUSmap_2014_adSm.ch.in (opt):

Percent Contributed: 1.82

Distance (km): 35.759497

Magnitude: 6.1470857

Epsilon (mean values): 0.053104547

noPuget_2014_adSm.gr.in (opt):

Percent Contributed: 1.8

Distance (km): 35.287343

Magnitude: 6.1364745

Epsilon (mean values): 0.044166975

WUSmap_2014_adSm.gr.in (opt):

Percent Contributed: 1.8

Distance (km): 35.277591

Magnitude: 6.1362848

Epsilon (mean values): 0.043932909

PSHA Deaggregation. %contributions.

site: Test

longitude: 119.584°W

latitude: 45.612°E

imt: Peak Ground Acceleration

vs30 = 259 m/s (Site class D)

return period: 475 yrs.

#This deaggregation corresponds to: GMM: Atkinson & Macias (2009) : Interface

Summary statistics for PSHA PGA deaggregation, r=distance, ε=epsilon:

Deaggregation targets:

Return period: 475 yrs

Exceedance rate: 0.0021052632 yr⁻¹

PGA ground motion: 0.10404746 g

Recovered targets:

Return period: 480.28208 yrs

Exceedance rate: 0.0020821098 yr⁻¹

Totals:

Binned: 0.32 %

Residual: 0 %

Trace: 0 %

Mean (over all sources):

m: 9.18

r: 315.4 km

ε₀: 1.87 σ

Mode (largest m-r bin):

m: 9.34

r: 308.17 km

ε₀: 1.56 σ

Contribution: 0.18 %

Mode (largest m-r-ε₀ bin):

m: 9.34

r: 308.17 km

ε₀: 1.56 σ

Contribution: 0.18 %

Discretization:

r: min = 0.0, max = 1000.0, Δ = 20.0 km

m: min = 4.4, max = 9.4, Δ = 0.2

ε: min = -3.0, max = 3.0, Δ = 0.5 σ

Epsilon keys:

ε₀: [-∞ .. -2.5)

ε₁: [-2.5 .. -2.0)

ε₂: [-2.0 .. -1.5)

ε₃: [-1.5 .. -1.0)

ε₄: [-1.0 .. -0.5)

ε₅: [-0.5 .. 0.0)

ε6: [0.0 .. 0.5)
 ε7: [0.5 .. 1.0)
 ε8: [1.0 .. 1.5)
 ε9: [1.5 .. 2.0)
 ε10: [2.0 .. 2.5)
 ε11: [2.5 .. +∞]

Closest Distance, rRup (km)				Magnitude (Mw)		ALL_ε	ε=(-∞, -2.5)	ε=[-2.5, -2)	
ε=[-2, -1.5)		ε=[-1.5, -1)		ε=[-1, -0.5)		ε=[-0.5, 0)	ε=[0, 0.5)		
ε=[0.5, 1)		ε=[1, 1.5)		ε=[1.5, 2)		ε=[2, 2.5)	ε=[2.5, ∞)		
390	9.1	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.003					
370	8.7	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
370	8.9	0.005	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.005					
370	9.1	0.033	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.033	0.000					
350	8.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
330	8.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
330	8.7	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.001					
330	8.9	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.002	0.000					
310	8.1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
310	8.3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
310	8.5	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.002					
310	8.7	0.004	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.002	0.002					
310	8.9	0.033	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.033	0.000					
310	9.1	0.060	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.004	0.056	0.000					
310	9.3	0.178	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.178	0.000	0.000					

Principal Sources (faults, subduction, random seismicity having > 3% contribution PSHA Deaggregation. %contributions.

site: Test

longitude: 119.584°W

latitude: 45.612°E

imt: Peak Ground Acceleration

vs30 = 259 m/s (Site class D)

return period: 475 yrs.

#This deaggregation corresponds to: GMM: BC Hydro (2012) : Interface

Summary statistics for PSHA PGA deaggregation, r=distance, ε=epsilon:

Deaggregation targets:

Return period: 475 yrs
 Exceedance rate: 0.0021052632 yr⁻¹
 PGA ground motion: 0.10404746 g

Recovered targets:

Return period: 480.28208 yrs
 Exceedance rate: 0.0020821098 yr⁻¹

Totals:

Binned: 7.25 %
 Residual: 0 %
 Trace: 0.05 %

Mean (over all sources):

m: 8.88
 r: 343.84 km
 ε₀: 0.92 σ

Mode (largest m-r bin):

m: 9.34
 r: 308.17 km
 ε₀: 0.39 σ
 Contribution: 1.05 %

Mode (largest m-r-ε₀ bin):

m: 9.34
 r: 308.17 km
 ε₀: 0.39 σ
 Contribution: 1.05 %

Discretization:

r: min = 0.0, max = 1000.0, Δ = 20.0 km
 m: min = 4.4, max = 9.4, Δ = 0.2
 ε: min = -3.0, max = 3.0, Δ = 0.5 σ

Epsilon keys:

- ε₀: [-∞ .. -2.5)
- ε₁: [-2.5 .. -2.0)
- ε₂: [-2.0 .. -1.5)
- ε₃: [-1.5 .. -1.0)
- ε₄: [-1.0 .. -0.5)
- ε₅: [-0.5 .. 0.0)
- ε₆: [0.0 .. 0.5)
- ε₇: [0.5 .. 1.0)
- ε₈: [1.0 .. 1.5)
- ε₉: [1.5 .. 2.0)
- ε₁₀: [2.0 .. 2.5)
- ε₁₁: [2.5 .. +∞]

Closest Distance, rRup (km)				Magnitude (Mw)		ALL_ε	ε=(-∞, -2.5)	ε=[-2.5, -2)	
ε=[-2, -1.5)		ε=[-1.5, -1)		ε=[-1, -0.5)		ε=[-0.5, 0)	ε=[0, 0.5)		
ε=[0.5, 1)		ε=[1, 1.5)		ε=[1.5, 2)		ε=[2, 2.5)	ε=[2.5, ∞)		
590	7.9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
570	7.9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
570	8.1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					

410	8.3	0.005	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.005	0.000	0.000						
410	8.5	0.017	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.003	0.013	0.000	0.000						
390	7.9	0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.010	0.000	0.000						
390	8.1	0.023	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.023	0.000	0.000						
390	8.3	0.123	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.123	0.000	0.000						
390	8.5	0.146	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.067	0.079	0.000	0.000						
390	8.7	0.527	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.527	0.000	0.000	0.000						
390	9.1	0.299	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.299	0.000	0.000	0.000						
370	7.9	0.014	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.014	0.000	0.000						
370	8.1	0.033	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.033	0.000	0.000						
370	8.3	0.020	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.013	0.007	0.000	0.000						
370	8.5	0.200	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.200	0.000	0.000	0.000						
370	8.7	0.739	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.739	0.000	0.000	0.000						
370	8.9	0.716	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.716	0.000	0.000	0.000						
370	9.1	1.003	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1.003	0.000	0.000	0.000	0.000						
350	7.9	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.003	0.000	0.000						
350	8.1	0.006	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.002	0.004	0.000	0.000						
350	8.3	0.004	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.004	0.000	0.000	0.000						
350	8.5	0.015	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.015	0.000	0.000	0.000						
330	7.9	0.004	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.002	0.002	0.000	0.000						
330	8.1	0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.010	0.000	0.000	0.000						
330	8.3	0.006	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.006	0.000	0.000	0.000						
330	8.5	0.074	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.001	0.073	0.000	0.000	0.000						
330	8.7	0.069	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.009	0.059	0.000	0.000	0.000						
330	8.9	0.077	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.077	0.000	0.000	0.000	0.000						

310	7.9	0.013	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.013	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
310	8.1	0.029	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.029	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
310	8.3	0.017	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.017	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
310	8.5	0.112	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.084	0.028	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
310	8.7	0.148	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.148	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
310	8.9	0.751	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.751	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
310	9.1	0.857	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.857	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
310	9.3	1.054	0.000	0.000	0.000	0.000	0.000	0.000	1.054
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Principal Sources (faults, subduction, random seismicity having > 3% contribution
sub0_ch_bot.in:

Percent Contributed: 2.57
Distance (km): 308.17316
Magnitude: 9.1017183
Epsilon (mean values): 0.55748266

Cascadia Megathrust - whole CSZ Characteristic:

Percent Contributed: 2.57
Distance (km): 308.17316
Magnitude: 9.1017183
Epsilon (mean values): 0.55748266
Azimuth: 285.86185
Latitude: 46.3
Longitude: -123.4132

sub0_ch_mid.in:

Percent Contributed: 2.33
Distance (km): 361.47413
Magnitude: 8.9149689
Epsilon (mean values): 0.99843032

Cascadia Megathrust - whole CSZ Characteristic:

Percent Contributed: 2.33
Distance (km): 361.47413
Magnitude: 8.9149689
Epsilon (mean values): 0.99843032
Azimuth: 283.89391
Latitude: 46.3
Longitude: -124.13677

PSHA Deaggregation. %contributions.

site: Test

longitude: 119.584°W

latitude: 45.612°E

imt: Peak Ground Acceleration

vs30 = 259 m/s (Site class D)

return period: 475 yrs.

#This deaggregation corresponds to: GMM: BC Hydro (2012) : Slab
 Summary statistics for PSHA PGA deaggregation, r=distance, ε=epsilon:

Deaggregation targets:

Return period: 475 yrs
 Exceedance rate: 0.0021052632 yr⁻¹
 PGA ground motion: 0.10404746 g

Recovered targets:

Return period: 480.28208 yrs
 Exceedance rate: 0.0020821098 yr⁻¹

Totals:

Binned: 1.36 %
 Residual: 0 %
 Trace: 0.1 %

Mean (over all sources):

m: 7.07
 r: 250.82 km
 ε₀: 1.65 σ

Mode (largest m-r bin):

m: 7.11
 r: 270.08 km
 ε₀: 1.8 σ
 Contribution: 0.19 %

Mode (largest m-r-ε₀ bin):

m: 7.12
 r: 269.37 km
 ε₀: 1.77 σ
 Contribution: 0.17 %

Discretization:

r: min = 0.0, max = 1000.0, Δ = 20.0 km
 m: min = 4.4, max = 9.4, Δ = 0.2
 ε: min = -3.0, max = 3.0, Δ = 0.5 σ

Epsilon keys:

ε₀: [-∞ .. -2.5)
 ε₁: [-2.5 .. -2.0)
 ε₂: [-2.0 .. -1.5)
 ε₃: [-1.5 .. -1.0)
 ε₄: [-1.0 .. -0.5)
 ε₅: [-0.5 .. 0.0)
 ε₆: [0.0 .. 0.5)
 ε₇: [0.5 .. 1.0)
 ε₈: [1.0 .. 1.5)
 ε₉: [1.5 .. 2.0)
 ε₁₀: [2.0 .. 2.5)
 ε₁₁: [2.5 .. +∞)

Closest Distance, rRup (km)		Magnitude (Mw)		ALL_ε	ε=(-∞, -2.5)	ε=[-2.5, -2)
ε=[-2, -1.5)	ε=[-1.5, -1)	ε=[-1, -0.5)	ε=[-0.5, 0)	ε=[-0.5, 0)	ε=[0, 0.5)	
ε=[0.5, 1)	ε=[1, 1.5)	ε=[1.5, 2)	ε=[2, 2.5)	ε=[2, 2.5)	ε=[2.5, ∞)	
290	6.5	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000
290	6.7	0.010	0.000	0.000	0.000	0.000

0.000	0.000	0.000	0.000	0.000					
110	7.7	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
110	7.9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
90	7.3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
90	7.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
90	7.7	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
90	7.9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					

Principal Sources (faults, subduction, random seismicity having > 3% contribution
PSHA Deaggregation. %contributions.

site: Test

longitude: 119.584°W

latitude: 45.612°E

imt: Peak Ground Acceleration

vs30 = 259 m/s (Site class D)

return period: 475 yrs.

#This deaggregation corresponds to: GMM: Zhao et al. (2006) : Interface

Summary statistics for PSHA PGA deaggregation, r=distance, ϵ =epsilon:

Deaggregation targets:

Return period: 475 yrs

Exceedance rate: 0.0021052632 yr⁻¹

PGA ground motion: 0.10404746 g

Recovered targets:

Return period: 480.28208 yrs

Exceedance rate: 0.0020821098 yr⁻¹

Totals:

Binned: 1.28 %

Residual: 0 %

Trace: 0.03 %

Mean (over all sources):

m: 9.08

r: 322.12 km

ϵ_0 : 1.48 σ

Mode (largest m-r bin):

m: 9.34

r: 308.17 km

ϵ_0 : 1.02 σ

Contribution: 0.46 %

Mode (largest m-r- ϵ_0 bin):

m: 9.34

r: 308.17 km

ϵ_0 : 1.02 σ

Contribution: 0.46 %

Discretization:

r: min = 0.0, max = 1000.0, Δ = 20.0 km

m: min = 4.4, max = 9.4, Δ = 0.2
 ϵ : min = -3.0, max = 3.0, Δ = 0.5 σ

Epsilon keys:

- ϵ_0 : $[-\infty \dots -2.5)$
- ϵ_1 : $[-2.5 \dots -2.0)$
- ϵ_2 : $[-2.0 \dots -1.5)$
- ϵ_3 : $[-1.5 \dots -1.0)$
- ϵ_4 : $[-1.0 \dots -0.5)$
- ϵ_5 : $[-0.5 \dots 0.0)$
- ϵ_6 : $[0.0 \dots 0.5)$
- ϵ_7 : $[0.5 \dots 1.0)$
- ϵ_8 : $[1.0 \dots 1.5)$
- ϵ_9 : $[1.5 \dots 2.0)$
- ϵ_{10} : $[2.0 \dots 2.5)$
- ϵ_{11} : $[2.5 \dots +\infty)$

Closest Distance, rRup (km)				Magnitude (Mw)		ALL_ ϵ	$\epsilon = (-\infty, -2.5)$	$\epsilon = [-2.5, -2)$	
$\epsilon = [-2, -1.5)$	$\epsilon = [-1.5, -1)$	$\epsilon = [-1, -0.5)$	$\epsilon = [-0.5, 0)$	$\epsilon = [0, 0.5)$	$\epsilon = [0.5, 1)$	$\epsilon = [1, 1.5)$	$\epsilon = [1.5, 2)$	$\epsilon = [2, 2.5)$	$\epsilon = [2.5, \infty)$
410	8.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
390	8.5	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000
390	8.7	0.014	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.014	0.000	0.000	0.000	0.000	0.000
390	9.1	0.024	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.024	0.000	0.000	0.000	0.000	0.000	0.000
370	8.3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
370	8.5	0.006	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.006	0.000	0.000	0.000	0.000	0.000
370	8.7	0.045	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.045	0.000	0.000	0.000	0.000	0.000	0.000
370	8.9	0.060	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.060	0.000	0.000	0.000	0.000	0.000	0.000
370	9.1	0.155	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.155	0.000	0.000	0.000	0.000	0.000	0.000	0.000
350	8.1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
350	8.3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
350	8.5	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000	0.000
330	7.9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
330	8.1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
330	8.3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
330	8.5	0.006	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.006	0.000	0.000	0.000	0.000	0.000	0.000

330	8.7	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.001	0.007	0.000					
330	8.9	0.014	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.014	0.000	0.000					
310	7.9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
310	8.1	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.001	0.001					
310	8.3	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.001	0.000					
310	8.5	0.014	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.009	0.005	0.000					
310	8.7	0.027	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.027	0.000	0.000					
310	8.9	0.180	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.180	0.000	0.000					
310	9.1	0.258	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.258	0.000	0.000	0.000					
310	9.3	0.460	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.460	0.000	0.000	0.000					

Principal Sources (faults, subduction, random seismicity having > 3% contribution
PSHA Deaggregation. %contributions.

site: Test

longitude: 119.584°W

latitude: 45.612°E

imt: Peak Ground Acceleration

vs30 = 259 m/s (Site class D)

return period: 475 yrs.

#This deaggregation corresponds to: GMM: Zhao et al. (2006) : Slab

Summary statistics for PSHA PGA deaggregation, r=distance, ε=epsilon:

Deaggregation targets:

Return period: 475 yrs

Exceedance rate: 0.0021052632 yr⁻¹

PGA ground motion: 0.10404746 g

Recovered targets:

Return period: 480.28208 yrs

Exceedance rate: 0.0020821098 yr⁻¹

Totals:

Binned: 0.04 %

Residual: 0 %

Trace: 0.12 %

Mean (over all sources):

m: 7.37

r: 219.13 km

ε₀: 1.86 σ

Mode (largest m-r bin):

m: 7.12

r: 211.24 km

ε₀: 2.23 σ

Contribution: 0 %

0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130	7.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130	7.7	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130	7.9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110	5.3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110	5.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110	5.7	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110	5.9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110	6.1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110	6.3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110	6.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110	6.7	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110	6.9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110	7.1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110	7.3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110	7.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110	7.7	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110	7.9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
90	7.3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
90	7.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
90	7.7	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
90	7.9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Principal Sources (faults, subduction, random seismicity having > 3% contribution
PSHA Deaggregation. %contributions.

site: Test

longitude: 119.584°W

latitude: 45.612°E

imt: Peak Ground Acceleration

vs30 = 259 m/s (Site class D)

return period: 475 yrs.

#This deaggregation corresponds to: Source Type: Grid

Summary statistics for PSHA PGA deaggregation, r=distance, ε=epsilon:

Deaggregation targets:

Return period: 475 yrs

Exceedance rate: 0.0021052632 yr⁻¹

PGA ground motion: 0.10404746 g

Recovered targets:

Return period: 480.28208 yrs

Exceedance rate: 0.0020821098 yr⁻¹

Totals:

Binned: 87.61 %

Residual: 0 %

Trace: 0.41 %

Mean (over all sources):

m: 6.09

r: 35.3 km

ε₀: 0.1 σ

Mode (largest m-r bin):

m: 5.1

r: 12.07 km

ε₀: -0.09 σ

Contribution: 5.15 %

Mode (largest m-r-ε₀ bin):

m: 5.1

r: 14.78 km

ε₀: 0.25 σ

Contribution: 1.74 %

Discretization:

r: min = 0.0, max = 1000.0, Δ = 20.0 km

m: min = 4.4, max = 9.4, Δ = 0.2

ε: min = -3.0, max = 3.0, Δ = 0.5 σ

Epsilon keys:

ε₀: [-∞ .. -2.5)

ε₁: [-2.5 .. -2.0)

ε₂: [-2.0 .. -1.5)

ε₃: [-1.5 .. -1.0)

ε₄: [-1.0 .. -0.5)

ε₅: [-0.5 .. 0.0)

ε₆: [0.0 .. 0.5)

ε₇: [0.5 .. 1.0)

ε₈: [1.0 .. 1.5)

ε₉: [1.5 .. 2.0)

ε₁₀: [2.0 .. 2.5)

ε₁₁: [2.5 .. +∞)

Closest Distance, rRup (km)

ε=[-2,-1.5) ε=[-1.5,-1)

ε=[0.5,1) ε=[1,1.5)

290 7.7 0.000 0.000

0.000 0.000 0.000 0.000

Magnitude (Mw)

ε=[-1,-0.5)

ε=[1.5,2)

0.000 0.000

0.000

ALL_ε ε=(-∞,-2.5)

ε=[-0.5,0)

ε=[2,2.5)

0.000 0.000

0.000

ε=[-2.5,-2)

ε=[0,0.5)

ε=[2.5,∞)

0.000 0.000

0.000

170	7.3	0.058	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.014	0.042	0.003					
170	7.5	0.047	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.001	0.030	0.015	0.001					
170	7.7	0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.004	0.005	0.001	0.000					
170	7.9	0.004	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.001	0.002	0.001	0.000	0.000					
150	6.3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
150	6.5	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.002					
150	6.7	0.011	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.001	0.010					
150	6.9	0.033	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.023	0.011					
150	7.1	0.067	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.015	0.049	0.003					
150	7.3	0.106	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.008	0.076	0.020	0.002					
150	7.5	0.081	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.028	0.048	0.005	0.000					
150	7.7	0.015	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.003	0.009	0.002	0.000	0.000					
150	7.9	0.005	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.002	0.002	0.000	0.000	0.000					
130	6.1	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.001					
130	6.3	0.012	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.012					
130	6.5	0.027	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.008	0.019					
130	6.7	0.048	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.036	0.012					
130	6.9	0.089	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.028	0.058	0.003					
130	7.1	0.132	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.007	0.104	0.020	0.000					
130	7.3	0.188	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.094	0.086	0.009	0.000					
130	7.5	0.123	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.019	0.086	0.016	0.001	0.000					
130	7.7	0.020	0.000	0.000	0.000	0.000	0.000	0.000	0.001
0.010	0.007	0.001	0.000	0.000					
130	7.9	0.007	0.000	0.000	0.000	0.000	0.000	0.000	0.002
0.004	0.001	0.000	0.000	0.000					
110	5.7	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.001					
110	5.9	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.008					

110	6.1	0.031	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.007	0.024					
110	6.3	0.076	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.055	0.022					
110	6.5	0.110	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.013	0.089	0.007					
110	6.7	0.142	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.075	0.066	0.001					
110	6.9	0.201	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.025	0.160	0.016	0.000					
110	7.1	0.266	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.001	0.173	0.089	0.003	0.000					
110	7.3	0.304	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.086	0.194	0.024	0.000	0.000					
110	7.5	0.187	0.000	0.000	0.000	0.000	0.000	0.000	0.007
0.113	0.061	0.006	0.000	0.000					
110	7.7	0.026	0.000	0.000	0.000	0.000	0.000	0.000	0.009
0.014	0.003	0.000	0.000	0.000					
110	7.9	0.008	0.000	0.000	0.000	0.000	0.000	0.001	0.004
0.002	0.000	0.000	0.000	0.000					
90	5.3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
90	5.5	0.020	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.003	0.017					
90	5.7	0.053	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.024	0.030					
90	5.9	0.098	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.002	0.068	0.029					
90	6.1	0.181	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.042	0.123	0.016					
90	6.3	0.292	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.185	0.105	0.002					
90	6.5	0.334	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.044	0.256	0.034	0.000					
90	6.7	0.358	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.164	0.190	0.004	0.000					
90	6.9	0.426	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.037	0.340	0.050	0.000	0.000					
90	7.1	0.465	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.240	0.216	0.009	0.000	0.000					
90	7.3	0.489	0.000	0.000	0.000	0.000	0.000	0.000	0.062
0.361	0.066	0.000	0.000	0.000					
90	7.5	0.260	0.000	0.000	0.000	0.000	0.000	0.001	0.122
0.124	0.014	0.000	0.000	0.000					
90	7.7	0.035	0.000	0.000	0.000	0.000	0.000	0.006	0.022
0.006	0.000	0.000	0.000	0.000					
90	7.9	0.009	0.000	0.000	0.000	0.000	0.000	0.004	0.004
0.001	0.000	0.000	0.000	0.000					
70	5.1	0.020	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.020					

70	5.3	0.082	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.031	0.051					
70	5.5	0.235	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.057	0.139	0.039					
70	5.7	0.350	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.169	0.156	0.024					
70	5.9	0.459	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.064	0.256	0.130	0.010					
70	6.1	0.655	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.224	0.368	0.063	0.000					
70	6.3	0.828	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.034	0.541	0.252	0.001	0.000					
70	6.5	0.835	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.186	0.575	0.074	0.000	0.000					
70	6.7	0.732	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.345	0.380	0.007	0.000	0.000					
70	6.9	0.760	0.000	0.000	0.000	0.000	0.000	0.000	0.084
0.561	0.114	0.000	0.000	0.000					
70	7.1	0.737	0.000	0.000	0.000	0.000	0.000	0.000	0.333
0.388	0.015	0.000	0.000	0.000					
70	7.3	0.729	0.000	0.000	0.000	0.000	0.000	0.086	0.501
0.142	0.000	0.000	0.000	0.000					
70	7.5	0.357	0.000	0.000	0.000	0.000	0.001	0.123	0.202
0.031	0.000	0.000	0.000	0.000					
70	7.7	0.042	0.000	0.000	0.000	0.000	0.005	0.025	0.012
0.000	0.000	0.000	0.000	0.000					
70	7.9	0.011	0.000	0.000	0.000	0.000	0.003	0.006	0.001
0.000	0.000	0.000	0.000	0.000					
50	5.1	0.419	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.117	0.245	0.057					
50	5.3	0.749	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.053	0.420	0.251	0.025					
50	5.5	1.237	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.083	0.494	0.500	0.148	0.011					
50	5.7	1.393	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.308	0.621	0.390	0.071	0.002					
50	5.9	1.462	0.000	0.000	0.000	0.000	0.000	0.000	0.009
0.466	0.701	0.268	0.017	0.000					
50	6.1	1.759	0.000	0.000	0.000	0.000	0.000	0.000	0.172
0.877	0.636	0.075	0.000	0.000					
50	6.3	1.788	0.000	0.000	0.000	0.000	0.000	0.000	0.450
1.065	0.273	0.000	0.000	0.000					
50	6.5	1.627	0.000	0.000	0.000	0.000	0.000	0.015	0.772
0.784	0.056	0.000	0.000	0.000					
50	6.7	1.334	0.000	0.000	0.000	0.000	0.000	0.110	0.767
0.457	0.000	0.000	0.000	0.000					
50	6.9	1.202	0.000	0.000	0.000	0.000	0.000	0.328	0.748
0.127	0.000	0.000	0.000	0.000					
50	7.1	1.075	0.000	0.000	0.000	0.000	0.033	0.571	0.444
0.028	0.000	0.000	0.000	0.000					

10	6.3	1.683	0.107	0.272	0.500	0.573	0.230	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
10	6.5	1.419	0.142	0.280	0.391	0.486	0.120	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
10	6.7	1.139	0.135	0.255	0.337	0.381	0.031	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
10	6.9	0.872	0.124	0.224	0.312	0.212	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
10	7.1	0.649	0.115	0.192	0.266	0.076	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
10	7.3	0.468	0.094	0.154	0.199	0.021	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
10	7.5	0.191	0.048	0.064	0.076	0.004	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
10	7.7	0.014	0.005	0.005	0.004	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
10	7.9	0.003	0.001	0.001	0.001	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					

Principal Sources (faults, subduction, random seismicity having > 3% contribution
WUSmap_2014_fixSm.ch.in (opt):

Percent Contributed: 11.79
Distance (km): 35.142232
Magnitude: 6.0792013
Epsilon (mean values): 0.10556882

noPuget_2014_fixSm.ch.in (opt):

Percent Contributed: 11.79
Distance (km): 35.133288
Magnitude: 6.0791235
Epsilon (mean values): 0.10543761

WUSmap_2014_fixSm.gr.in (opt):

Percent Contributed: 11.62
Distance (km): 34.636512
Magnitude: 6.0672791
Epsilon (mean values): 0.096027807

noPuget_2014_fixSm.gr.in (opt):

Percent Contributed: 11.62
Distance (km): 34.627531
Magnitude: 6.0672003
Epsilon (mean values): 0.095895824

noPuget_2014_adSm.ch.in (opt):

Percent Contributed: 7.8
Distance (km): 35.069381
Magnitude: 6.0765569
Epsilon (mean values): 0.096326043

WUSmap_2014_adSm.ch.in (opt):

Percent Contributed: 7.79
Distance (km): 35.057701
Magnitude: 6.0763696
Epsilon (mean values): 0.096034698

noPuget_2014_adSm.gr.in (opt):

Percent Contributed: 7.7
Distance (km): 34.63803
Magnitude: 6.0662412
Epsilon (mean values): 0.088080349
WUSmap_2014_adSm.gr.in (opt):
Percent Contributed: 7.69
Distance (km): 34.627379
Magnitude: 6.0660735
Epsilon (mean values): 0.087810247
WUSmap_2014_fixSm_M8.in (opt):
Percent Contributed: 2.88
Distance (km): 38.031651
Magnitude: 6.2011773
Epsilon (mean values): 0.080904506
noPuget_2014_fixSm_M8.in (opt):
Percent Contributed: 2.88
Distance (km): 37.985608
Magnitude: 6.2007456
Epsilon (mean values): 0.08035107
noPuget_2014_adSm_M8.in (opt):
Percent Contributed: 1.91
Distance (km): 38.053956
Magnitude: 6.1993793
Epsilon (mean values): 0.073869501
WUSmap_2014_adSm_M8.in (opt):
Percent Contributed: 1.9
Distance (km): 38.062301
Magnitude: 6.1992893
Epsilon (mean values): 0.073837079
PSHA Deaggregation. %contributions.
site: Test
longitude: 119.584°W
latitude: 45.612°E
imt: Peak Ground Acceleration
vs30 = 259 m/s (Site class D)
return period: 475 yrs.
#This deaggregation corresponds to: Source Type: Slab
Summary statistics for PSHA PGA deaggregation, r=distance, ε=epsilon:
Deaggregation targets:
Return period: 475 yrs
Exceedance rate: 0.0021052632 yr⁻¹
PGA ground motion: 0.10404746 g
Recovered targets:
Return period: 480.28208 yrs
Exceedance rate: 0.0020821098 yr⁻¹
Totals:
Binned: 1.4 %
Residual: 0 %
Trace: 0.25 %
Mean (over all sources):

m: 7.08
 r: 250.01 km
 ϵ_0 : 1.66 σ
 Mode (largest m-r bin):
 m: 7.11
 r: 270.08 km
 ϵ_0 : 1.8 σ
 Contribution: 0.19 %

Mode (largest m-r- ϵ_0 bin):
 m: 7.12
 r: 269.37 km
 ϵ_0 : 1.77 σ
 Contribution: 0.17 %

Discretization:
 r: min = 0.0, max = 1000.0, Δ = 20.0 km
 m: min = 4.4, max = 9.4, Δ = 0.2
 ϵ : min = -3.0, max = 3.0, Δ = 0.5 σ

Epsilon keys:
 ϵ_0 : [- ∞ .. -2.5)
 ϵ_1 : [-2.5 .. -2.0)
 ϵ_2 : [-2.0 .. -1.5)
 ϵ_3 : [-1.5 .. -1.0)
 ϵ_4 : [-1.0 .. -0.5)
 ϵ_5 : [-0.5 .. 0.0)
 ϵ_6 : [0.0 .. 0.5)
 ϵ_7 : [0.5 .. 1.0)
 ϵ_8 : [1.0 .. 1.5)
 ϵ_9 : [1.5 .. 2.0)
 ϵ_{10} : [2.0 .. 2.5)
 ϵ_{11} : [2.5 .. + ∞]

Closest Distance, rRup (km)		Magnitude (Mw)		ALL_ ϵ	$\epsilon = (-\infty, -2.5)$	$\epsilon = [-2.5, -2)$
$\epsilon = [-2, -1.5)$	$\epsilon = [-1.5, -1)$	$\epsilon = [-1, -0.5)$	$\epsilon = [-0.5, 0)$	$\epsilon = [-0.5, 0)$	$\epsilon = [0, 0.5)$	$\epsilon = [0, 0.5)$
$\epsilon = [0.5, 1)$	$\epsilon = [1, 1.5)$	$\epsilon = [1.5, 2)$	$\epsilon = [2, 2.5)$	$\epsilon = [2, 2.5)$	$\epsilon = [2.5, \infty)$	$\epsilon = [2.5, \infty)$
290	6.5	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000
290	6.7	0.010	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.010	0.000	0.000
290	6.9	0.046	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.035	0.012	0.000	0.000
290	7.1	0.105	0.000	0.000	0.000	0.000
0.000	0.000	0.065	0.040	0.000	0.000	0.000
290	7.3	0.014	0.000	0.000	0.000	0.000
0.000	0.002	0.012	0.000	0.000	0.000	0.000
290	7.5	0.007	0.000	0.000	0.000	0.000
0.000	0.007	0.000	0.000	0.000	0.000	0.000
270	6.5	0.002	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.002	0.000	0.000
270	6.7	0.024	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.009	0.015	0.000	0.000
270	6.9	0.080	0.000	0.000	0.000	0.000

0.000	0.000	0.000	0.000	0.000					
130	6.9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
130	7.1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
130	7.3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
130	7.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
130	7.7	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
130	7.9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
110	5.3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
110	5.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
110	5.7	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
110	5.9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
110	6.1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
110	6.3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
110	6.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
110	6.7	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
110	6.9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
110	7.1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
110	7.3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
110	7.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
110	7.7	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
110	7.9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
90	7.3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
90	7.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
90	7.7	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
90	7.9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					

Principal Sources (faults, subduction, random seismicity having > 3% contribution

PSHA Deaggregation. %contributions.

site: Test

longitude: 119.584°W

latitude: 45.612°E

imt: Peak Ground Acceleration

vs30 = 259 m/s (Site class D)

return period: 475 yrs.

#This deaggregation corresponds to: Source Type: Interface

Summary statistics for PSHA PGA deaggregation, r=distance, ϵ =epsilon:

Deaggregation targets:

Return period: 475 yrs

Exceedance rate: 0.0021052632 yr⁻¹

PGA ground motion: 0.10404746 g

Recovered targets:

Return period: 480.28208 yrs

Exceedance rate: 0.0020821098 yr⁻¹

Totals:

Binned: 8.85 %

Residual: 0 %

Trace: 0.13 %

Mean (over all sources):

m: 8.92

r: 339.67 km

ϵ_0 : 1.04 σ

Mode (largest m-r bin):

m: 9.34

r: 308.17 km

ϵ_0 : 0.69 σ

Contribution: 1.69 %

Mode (largest m-r- ϵ_0 bin):

m: 9.34

r: 308.17 km

ϵ_0 : 0.39 σ

Contribution: 1.05 %

Discretization:

r: min = 0.0, max = 1000.0, Δ = 20.0 km

m: min = 4.4, max = 9.4, Δ = 0.2

ϵ : min = -3.0, max = 3.0, Δ = 0.5 σ

Epsilon keys:

ϵ_0 : [- ∞ .. -2.5)

ϵ_1 : [-2.5 .. -2.0)

ϵ_2 : [-2.0 .. -1.5)

ϵ_3 : [-1.5 .. -1.0)

ϵ_4 : [-1.0 .. -0.5)

ϵ_5 : [-0.5 .. 0.0)

ϵ_6 : [0.0 .. 0.5)

ϵ_7 : [0.5 .. 1.0)

ϵ_8 : [1.0 .. 1.5)

ϵ_9 : [1.5 .. 2.0)

ϵ_{10} : [2.0 .. 2.5)

$\epsilon_{11}: [2.5 \dots +\infty]$				Magnitude (Mw)		ALL_ ϵ	$\epsilon = (-\infty, -2.5)$	$\epsilon = [-2.5, -2)$	
Closest Distance, rRup (km)									
$\epsilon = [-2, -1.5)$	$\epsilon = [-1.5, -1)$			$\epsilon = [-1, -0.5)$			$\epsilon = [-0.5, 0)$	$\epsilon = [0, 0.5)$	
$\epsilon = [0.5, 1)$	$\epsilon = [1, 1.5)$			$\epsilon = [1.5, 2)$			$\epsilon = [2, 2.5)$	$\epsilon = [2.5, \infty)$	
590	7.9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
570	7.9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
570	8.1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
550	7.9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
550	8.1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
530	7.9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
530	8.1	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
510	7.9	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
510	8.1	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.001	0.000					
510	8.3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
490	7.9	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.001	0.000					
490	8.1	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.002	0.000					
490	8.3	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.001	0.000					
490	8.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
470	7.9	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.001	0.000					
470	8.1	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.003	0.000					
470	8.3	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.001	0.000					
470	8.5	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.001	0.000	0.000					
450	7.9	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.002	0.000					
450	8.1	0.027	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.027	0.000					
450	8.3	0.024	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.024	0.000	0.000					
450	8.5	0.027	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.027	0.000	0.000					
430	7.9	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.002	0.000					

430	8.1	0.006	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.004	0.002	0.000					
430	8.3	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.003	0.000	0.000					
430	8.5	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.008	0.000	0.000					
410	7.9	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.002	0.001	0.000					
410	8.1	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.008	0.000	0.000					
410	8.3	0.005	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.005	0.000	0.000					
410	8.5	0.017	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.003	0.013	0.000	0.000					
390	7.9	0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.010	0.000	0.000					
390	8.1	0.023	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.023	0.000	0.000					
390	8.3	0.123	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.123	0.000	0.000					
390	8.5	0.146	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.067	0.079	0.000	0.001					
390	8.7	0.541	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.527	0.000	0.000	0.014					
390	9.1	0.327	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.299	0.000	0.024	0.003					
370	7.9	0.014	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.014	0.000	0.000					
370	8.1	0.033	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.033	0.000	0.000					
370	8.3	0.020	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.013	0.007	0.000	0.000					
370	8.5	0.206	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.200	0.000	0.000	0.006					
370	8.7	0.784	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.739	0.000	0.045	0.001					
370	8.9	0.781	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.716	0.000	0.060	0.005					
370	9.1	1.191	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1.003	0.000	0.155	0.033	0.000					
350	7.9	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.003	0.000	0.000					
350	8.1	0.006	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.002	0.004	0.000	0.000					
350	8.3	0.004	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.004	0.000	0.000	0.000					
350	8.5	0.015	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.015	0.000	0.001	0.000					
330	7.9	0.005	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.002	0.002	0.000	0.000					

330	8.1	0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.010	0.000	0.000	0.000					
330	8.3	0.006	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.006	0.000	0.000	0.000					
330	8.5	0.081	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.001	0.073	0.000	0.006	0.000					
330	8.7	0.077	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.009	0.059	0.001	0.007	0.001					
330	8.9	0.094	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.077	0.000	0.014	0.002	0.000					
310	7.9	0.013	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.013	0.000	0.000	0.000					
310	8.1	0.031	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.029	0.000	0.001	0.001					
310	8.3	0.019	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.017	0.000	0.001	0.000					
310	8.5	0.128	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.084	0.028	0.009	0.005	0.002					
310	8.7	0.179	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.148	0.000	0.027	0.002	0.002					
310	8.9	0.964	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.751	0.000	0.180	0.033	0.000					
310	9.1	1.176	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.857	0.258	0.004	0.056	0.000					
310	9.3	1.693	0.000	0.000	0.000	0.000	0.000	0.000	1.054
0.000	0.460	0.178	0.000	0.000					

Principal Sources (faults, subduction, random seismicity having > 3% contribution
sub0_ch_bot.in:

Percent Contributed: 3.7
Distance (km): 308.17316
Magnitude: 9.121988
Epsilon (mean values): 0.80217222

Cascadia Megathrust - whole CSZ Characteristic:

Percent Contributed: 3.7
Distance (km): 308.17316
Magnitude: 9.121988
Epsilon (mean values): 0.80217222
Azimuth: 285.86185
Latitude: 46.3
Longitude: -123.4132

sub0_ch_mid.in:

Percent Contributed: 2.62
Distance (km): 361.47413
Magnitude: 8.9242121
Epsilon (mean values): 1.1173804

Cascadia Megathrust - whole CSZ Characteristic:

Percent Contributed: 2.62
Distance (km): 361.47413
Magnitude: 8.9242121
Epsilon (mean values): 1.1173804

Azimuth: 283.89391
Latitude: 46.3
Longitude: -124.13677
PSHA Deaggregation. %contributions.
site: Test
longitude: 119.584°W
latitude: 45.612°E
imt: Peak Ground Acceleration
vs30 = 259 m/s (Site class D)
return period: 475 yrs.
#This deaggregation corresponds to: Source Type: Fault
Summary statistics for PSHA PGA deaggregation, r=distance, ε=epsilon:
Deaggregation targets:
 Return period: 475 yrs
 Exceedance rate: 0.0021052632 yr⁻¹
 PGA ground motion: 0.10404746 g
Recovered targets:
 Return period: 480.28208 yrs
 Exceedance rate: 0.0020821098 yr⁻¹
Totals:
 Binned: 2.14 %
 Residual: 0 %
 Trace: 0.09 %
Mean (over all sources):
 m: 7.02
 r: 73.78 km
 ε₀: 0.69 σ
Mode (largest m-r bin):
 m: 7.1
 r: 62.35 km
 ε₀: 0.36 σ
 Contribution: 0.2 %
Mode (largest m-r-ε₀ bin):
 m: 6.74
 r: 63.44 km
 ε₀: 0.74 σ
 Contribution: 0.17 %
Discretization:
 r: min = 0.0, max = 1000.0, Δ = 20.0 km
 m: min = 4.4, max = 9.4, Δ = 0.2
 ε: min = -3.0, max = 3.0, Δ = 0.5 σ
Epsilon keys:
 ε₀: [-∞ .. -2.5)
 ε₁: [-2.5 .. -2.0)
 ε₂: [-2.0 .. -1.5)
 ε₃: [-1.5 .. -1.0)
 ε₄: [-1.0 .. -0.5)
 ε₅: [-0.5 .. 0.0)
 ε₆: [0.0 .. 0.5)
 ε₇: [0.5 .. 1.0)

0.000	0.000	0.000	0.019	0.003					
130	6.9	0.035	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.020	0.015	0.000					
130	7.1	0.038	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.006	0.028	0.004	0.000					
130	7.3	0.018	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.013	0.006	0.000	0.000					
130	7.5	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.003	0.000	0.000	0.000					
110	6.5	0.005	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.002	0.003	0.000					
110	6.7	0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.006	0.004	0.000					
110	6.9	0.009	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.008	0.001	0.000					
110	7.1	0.038	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.013	0.023	0.001	0.000					
110	7.3	0.086	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.006	0.067	0.013	0.000	0.000					
110	7.5	0.061	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.029	0.027	0.005	0.000	0.000					
110	7.7	0.009	0.000	0.000	0.000	0.000	0.000	0.000	0.002
0.006	0.001	0.000	0.000	0.000					
90	6.5	0.016	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.003	0.011	0.001	0.000					
90	6.7	0.045	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.024	0.022	0.000	0.000					
90	6.9	0.077	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.006	0.066	0.005	0.000	0.000					
90	7.1	0.083	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.057	0.026	0.000	0.000	0.000					
90	7.3	0.040	0.000	0.000	0.000	0.000	0.000	0.000	0.004
0.031	0.005	0.000	0.000	0.000					
90	7.5	0.006	0.000	0.000	0.000	0.000	0.000	0.000	0.004
0.002	0.000	0.000	0.000	0.000					
70	6.5	0.100	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.046	0.053	0.001	0.000	0.000					
70	6.7	0.192	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.169	0.023	0.000	0.000	0.000					
70	6.9	0.094	0.000	0.000	0.000	0.000	0.000	0.000	0.036
0.058	0.000	0.000	0.000	0.000					
70	7.1	0.196	0.000	0.000	0.000	0.000	0.000	0.000	0.139
0.057	0.000	0.000	0.000	0.000					
70	7.3	0.189	0.000	0.000	0.000	0.000	0.000	0.084	0.102
0.002	0.000	0.000	0.000	0.000					
70	7.5	0.098	0.000	0.000	0.000	0.000	0.005	0.068	0.025
0.000	0.000	0.000	0.000	0.000					
70	7.7	0.032	0.000	0.000	0.000	0.000	0.010	0.016	0.006
0.000	0.000	0.000	0.000	0.000					
70	7.9	0.002	0.000	0.000	0.000	0.000	0.001	0.001	0.000

0.000	0.000	0.000	0.000	0.000					
50	6.5	0.079	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.064	0.015	0.000	0.000	0.000					
50	6.7	0.171	0.000	0.000	0.000	0.000	0.000	0.000	0.045
0.126	0.000	0.000	0.000	0.000					
50	6.9	0.171	0.000	0.000	0.000	0.000	0.000	0.000	0.121
0.050	0.000	0.000	0.000	0.000					
50	7.1	0.137	0.000	0.000	0.000	0.000	0.000	0.011	0.110
0.016	0.000	0.000	0.000	0.000					
50	7.3	0.055	0.000	0.000	0.000	0.000	0.000	0.032	0.023
0.000	0.000	0.000	0.000	0.000					
50	7.5	0.007	0.000	0.000	0.000	0.000	0.001	0.005	0.001
0.000	0.000	0.000	0.000	0.000					

Principal Sources (faults, subduction, random seismicity having > 3% contribution

*** Deaggregation of Seismic Hazard at One Period of Spectral Acceleration ***

*** Data from Dynamic: Conterminous U.S. 2014 (update) (4.2.0) ****

PSHA Deaggregation. %contributions.

site: Test

longitude: 119.584°W

latitude: 45.612°E

imt: Peak Ground Acceleration

vs30 = 537 m/s (Site class C)

return period: 475 yrs.

#This deaggregation corresponds to: Total

Summary statistics for PSHA PGA deaggregation, r=distance, ϵ =epsilon:

Deaggregation targets:

Return period: 475 yrs

Exceedance rate: 0.0021052632 yr⁻¹

PGA ground motion: 0.080453256 g

Recovered targets:

Return period: 482.32606 yrs

Exceedance rate: 0.0020732863 yr⁻¹

Totals:

Binned: 100 %

Residual: 0 %

Trace: 0.79 %

Mean (over all sources):

m: 6.41

r: 68.04 km

ϵ_0 : 0.17 σ

Mode (largest m-r bin):

m: 5.1

r: 12.02 km

ϵ_0 : -0.1 σ

Contribution: 5.23 %

Mode (largest m-r- ϵ_0 bin):

m: 5.1

r: 14.48 km

ϵ_0 : 0.25 σ

Contribution: 1.78 %

Discretization:

r: min = 0.0, max = 1000.0, Δ = 20.0 km

m: min = 4.4, max = 9.4, Δ = 0.2

ϵ : min = -3.0, max = 3.0, Δ = 0.5 σ

Epsilon keys:

ϵ_0 : [-∞ .. -2.5)

ϵ_1 : [-2.5 .. -2.0)

ϵ_2 : [-2.0 .. -1.5)

ϵ_3 : [-1.5 .. -1.0)

ϵ_4 : [-1.0 .. -0.5)

ϵ_5 : [-0.5 .. 0.0)

ϵ_6 : [0.0 .. 0.5)

ϵ_7 : [0.5 .. 1.0)

ϵ_8 : [1.0 .. 1.5)

ϵ_9 : [1.5 .. 2.0)
 ϵ_{10} : [2.0 .. 2.5)
 ϵ_{11} : [2.5 .. $+\infty$]

Closest Distance, rRup (km)				Magnitude (Mw)		ALL_ε	$\epsilon=(-\infty, -2.5)$	$\epsilon=[-2.5, -2)$	
$\epsilon=[-2, -1.5)$	$\epsilon=[-1.5, -1)$	$\epsilon=[-1, -0.5)$	$\epsilon=[-0.5, 0)$	$\epsilon=[0, 0.5)$	$\epsilon=[0.5, 1)$	$\epsilon=[1, 1.5)$	$\epsilon=[2, 2.5)$	$\epsilon=[2.5, \infty)$	
590	7.9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
570	7.9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
570	8.1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
550	7.9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
550	8.1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
530	7.9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
530	8.1	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
510	7.9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
510	8.1	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.001	0.000					
510	8.3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
490	7.9	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.001	0.000					
490	8.1	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.002	0.000					
490	8.3	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.001	0.000					
490	8.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
470	7.9	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.001	0.000					
470	8.1	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.003	0.000					
470	8.3	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.001	0.000					
470	8.5	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.001	0.001	0.000					
450	7.9	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.001	0.000					
450	8.1	0.024	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.024	0.000					
450	8.3	0.022	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.007	0.015	0.000					
450	8.5	0.025	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.025	0.000	0.000					

430	7.9	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.002	0.000					
430	8.1	0.005	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.002	0.003	0.000					
430	8.3	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.003	0.000	0.000					
430	8.5	0.007	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.007	0.000	0.000					
410	7.9	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.001	0.002	0.000					
410	8.1	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.007	0.000	0.000					
410	8.3	0.005	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.005	0.000	0.000					
410	8.5	0.016	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.002	0.014	0.000	0.000					
390	7.9	0.009	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.009	0.000	0.000					
390	8.1	0.022	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.022	0.000	0.000					
390	8.3	0.119	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.116	0.000	0.003					
390	8.5	0.146	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.038	0.101	0.002	0.005					
390	8.7	0.560	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.511	0.000	0.050	0.000					
390	9.1	0.356	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.296	0.059	0.000	0.000					
370	7.9	0.013	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.013	0.000	0.000					
370	8.1	0.032	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.031	0.000	0.001					
370	8.3	0.020	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.009	0.011	0.000	0.001					
370	8.5	0.213	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.191	0.002	0.019	0.000					
370	8.7	0.844	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.725	0.016	0.104	0.000					
370	8.9	0.853	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.707	0.146	0.000	0.000					
370	9.1	1.346	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1.006	0.000	0.325	0.000	0.014					
350	7.9	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.003	0.000	0.000					
350	8.1	0.006	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.002	0.004	0.000	0.000					
350	8.3	0.004	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.003	0.000	0.000	0.000					
350	8.5	0.016	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.014	0.000	0.002	0.000					

330	7.9	0.005	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.001	0.003	0.000	0.000					
330	8.1	0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.009	0.001	0.001	0.000					
330	8.3	0.006	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.005	0.000	0.001	0.000					
330	8.5	0.088	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.001	0.072	0.014	0.001	0.000					
330	8.7	0.086	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.008	0.060	0.018	0.000	0.000					
330	8.9	0.108	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.078	0.029	0.000	0.000	0.001					
310	7.9	0.014	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.012	0.000	0.001	0.000					
310	8.1	0.033	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.029	0.000	0.004	0.000					
310	8.3	0.020	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.017	0.003	0.001	0.000					
310	8.5	0.143	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.082	0.029	0.032	0.000	0.000					
310	8.7	0.205	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.149	0.040	0.015	0.000	0.002					
310	8.9	1.120	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.760	0.344	0.000	0.001	0.015					
310	9.1	1.373	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.901	0.440	0.000	0.032	0.000					
310	9.3	1.949	0.000	0.000	0.000	0.000	0.000	0.000	1.088
0.750	0.000	0.111	0.000	0.000					
290	6.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
290	6.7	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.008					
290	6.9	0.040	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.029	0.011					
290	7.1	0.096	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.043	0.053	0.000					
290	7.3	0.013	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.002	0.011	0.000	0.000					
290	7.5	0.007	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.007	0.000	0.000	0.000					
290	7.7	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
290	7.9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
270	6.5	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.001					
270	6.7	0.019	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.006	0.013					
270	6.9	0.071	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.004	0.065	0.002					

270	7.1	0.181	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.151	0.028	0.002					
270	7.3	0.036	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.021	0.013	0.001	0.001					
270	7.5	0.027	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.003	0.022	0.000	0.002	0.000					
270	7.7	0.005	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.003	0.001	0.001	0.000	0.000					
270	7.9	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.001	0.000	0.000	0.000	0.000					
250	6.3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
250	6.5	0.005	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.005					
250	6.7	0.027	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.022	0.005					
250	6.9	0.075	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.042	0.033	0.001					
250	7.1	0.182	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.046	0.127	0.004	0.006					
250	7.3	0.034	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.002	0.027	0.002	0.002	0.000					
250	7.5	0.027	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.018	0.006	0.003	0.001	0.000					
250	7.7	0.007	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.005	0.001	0.000	0.000	0.000					
250	7.9	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.001
0.005	0.001	0.000	0.000	0.000					
230	6.3	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.001					
230	6.5	0.007	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.003	0.003					
230	6.7	0.024	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.005	0.019	0.000					
230	6.9	0.065	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.058	0.004	0.003					
230	7.1	0.142	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.103	0.024	0.014	0.001					
230	7.3	0.025	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.012	0.009	0.003	0.001	0.000					
230	7.5	0.020	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.015	0.002	0.002	0.000	0.001					
230	7.7	0.006	0.000	0.000	0.000	0.000	0.000	0.000	0.002
0.002	0.001	0.000	0.000	0.000					
230	7.9	0.007	0.000	0.000	0.000	0.000	0.000	0.000	0.005
0.002	0.000	0.000	0.000	0.000					
210	6.1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
210	6.3	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.001					

210	6.5	0.004	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.004	0.000					
210	6.7	0.012	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.008	0.003	0.001					
210	6.9	0.032	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.016	0.012	0.004	0.000					
210	7.1	0.075	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.013	0.050	0.010	0.003	0.000					
210	7.3	0.017	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.011	0.002	0.001	0.000	0.002					
210	7.5	0.016	0.000	0.000	0.000	0.000	0.000	0.000	0.007
0.002	0.003	0.000	0.002	0.003					
210	7.7	0.005	0.000	0.000	0.000	0.000	0.000	0.000	0.002
0.001	0.000	0.001	0.001	0.000					
210	7.9	0.005	0.000	0.000	0.000	0.000	0.000	0.001	0.003
0.000	0.000	0.000	0.000	0.000					
190	5.9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
190	6.1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
190	6.3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
190	6.5	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.001	0.001	0.000					
190	6.7	0.004	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.001	0.003	0.001	0.000					
190	6.9	0.009	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.007	0.001	0.000	0.000					
190	7.1	0.021	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.011	0.004	0.002	0.000	0.003					
190	7.3	0.018	0.000	0.000	0.000	0.000	0.000	0.000	0.001
0.001	0.001	0.000	0.006	0.009					
190	7.5	0.019	0.000	0.000	0.000	0.000	0.000	0.000	0.002
0.001	0.000	0.002	0.012	0.003					
190	7.7	0.006	0.000	0.000	0.000	0.000	0.000	0.000	0.001
0.000	0.000	0.002	0.002	0.000					
190	7.9	0.004	0.000	0.000	0.000	0.000	0.000	0.002	0.000
0.000	0.001	0.001	0.000	0.000					
170	5.9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
170	6.1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
170	6.3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
170	6.5	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
170	6.7	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.001	0.000	0.000	0.000					
170	6.9	0.006	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.001	0.001	0.000	0.000	0.004					

170	7.1	0.024	0.000	0.000	0.000	0.000	0.000	0.000	0.001
0.003	0.001	0.000	0.007	0.012					
170	7.3	0.046	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.006	0.034	0.006					
170	7.5	0.040	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.018	0.019	0.001					
170	7.7	0.009	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.003	0.005	0.001	0.000					
170	7.9	0.004	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.001	0.002	0.001	0.000	0.000					
150	5.7	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
150	5.9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
150	6.1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
150	6.3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
150	6.5	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.001					
150	6.7	0.006	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.006					
150	6.9	0.025	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.009	0.015					
150	7.1	0.056	0.000	0.000	0.000	0.000	0.000	0.000	0.001
0.000	0.000	0.005	0.043	0.007					
150	7.3	0.092	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.002	0.052	0.036	0.001					
150	7.5	0.072	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.017	0.047	0.008	0.000					
150	7.7	0.014	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.002	0.007	0.004	0.000	0.000					
150	7.9	0.005	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.002	0.002	0.000	0.000	0.000					
130	5.3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
130	5.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
130	5.7	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
130	5.9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
130	6.1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
130	6.3	0.005	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.005					
130	6.5	0.023	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.003	0.020					
130	6.7	0.054	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.036	0.019					

130	6.9	0.103	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.016	0.085	0.003					
130	7.1	0.148	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.003	0.107	0.038	0.000					
130	7.3	0.186	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.064	0.118	0.004	0.000					
130	7.5	0.117	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.011	0.072	0.033	0.000	0.000					
130	7.7	0.019	0.000	0.000	0.000	0.000	0.000	0.000	0.001
0.008	0.009	0.001	0.000	0.000					
130	7.9	0.006	0.000	0.000	0.000	0.000	0.000	0.000	0.002
0.003	0.001	0.000	0.000	0.000					
110	5.1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
110	5.3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
110	5.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
110	5.7	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
110	5.9	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.003					
110	6.1	0.017	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.001	0.016					
110	6.3	0.059	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.033	0.027					
110	6.5	0.097	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.001	0.086	0.010					
110	6.7	0.133	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.050	0.083	0.001					
110	6.9	0.188	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.004	0.165	0.020	0.000					
110	7.1	0.280	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.132	0.147	0.000	0.000					
110	7.3	0.368	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.048	0.275	0.046	0.000	0.000					
110	7.5	0.238	0.000	0.000	0.000	0.000	0.000	0.000	0.002
0.114	0.122	0.000	0.000	0.000					
110	7.7	0.034	0.000	0.000	0.000	0.000	0.000	0.000	0.008
0.021	0.006	0.000	0.000	0.000					
110	7.9	0.008	0.000	0.000	0.000	0.000	0.000	0.001	0.004
0.003	0.000	0.000	0.000	0.000					
90	5.3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
90	5.5	0.009	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.009					
90	5.7	0.031	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.009	0.022					
90	5.9	0.069	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.037	0.032					

90	6.1	0.146	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.010	0.116	0.020					
90	6.3	0.259	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.141	0.117	0.001					
90	6.5	0.323	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.016	0.267	0.040	0.000					
90	6.7	0.377	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.147	0.227	0.004	0.000					
90	6.9	0.480	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.005	0.409	0.065	0.000	0.000					
90	7.1	0.533	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.237	0.296	0.000	0.000	0.000					
90	7.3	0.523	0.000	0.000	0.000	0.000	0.000	0.000	0.043
0.413	0.067	0.000	0.000	0.000					
90	7.5	0.266	0.000	0.000	0.000	0.000	0.000	0.001	0.096
0.167	0.002	0.000	0.000	0.000					
90	7.7	0.035	0.000	0.000	0.000	0.000	0.000	0.005	0.023
0.006	0.000	0.000	0.000	0.000					
90	7.9	0.009	0.000	0.000	0.000	0.000	0.000	0.004	0.005
0.000	0.000	0.000	0.000	0.000					
70	5.1	0.011	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.011					
70	5.3	0.051	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.011	0.040					
70	5.5	0.168	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.016	0.111	0.040					
70	5.7	0.272	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.095	0.146	0.031					
70	5.9	0.383	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.008	0.209	0.158	0.009					
70	6.1	0.587	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.132	0.392	0.063	0.000					
70	6.3	0.784	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.517	0.265	0.002	0.000					
70	6.5	0.910	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.213	0.629	0.068	0.000	0.000					
70	6.7	0.909	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.488	0.413	0.008	0.000	0.000					
70	6.9	0.849	0.000	0.000	0.000	0.000	0.000	0.000	0.056
0.690	0.103	0.000	0.000	0.000					
70	7.1	0.940	0.000	0.000	0.000	0.000	0.000	0.000	0.468
0.472	0.000	0.000	0.000	0.000					
70	7.3	0.934	0.000	0.000	0.000	0.000	0.000	0.103	0.708
0.124	0.000	0.000	0.000	0.000					
70	7.5	0.466	0.000	0.000	0.000	0.000	0.002	0.176	0.285
0.003	0.000	0.000	0.000	0.000					
70	7.7	0.076	0.000	0.000	0.000	0.000	0.014	0.051	0.011
0.000	0.000	0.000	0.000	0.000					
70	7.9	0.013	0.000	0.000	0.000	0.000	0.004	0.009	0.000
0.000	0.000	0.000	0.000	0.000					

50	5.1	0.326	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.059	0.201	0.066					
50	5.3	0.608	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.007	0.315	0.253	0.032					
50	5.5	1.053	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.012	0.361	0.493	0.174	0.013					
50	5.7	1.238	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.131	0.556	0.468	0.083	0.000					
50	5.9	1.355	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.306	0.754	0.283	0.012	0.000					
50	6.1	1.705	0.000	0.000	0.000	0.000	0.000	0.000	0.050
0.879	0.706	0.069	0.000	0.000					
50	6.3	1.784	0.000	0.000	0.000	0.000	0.000	0.000	0.427
1.080	0.277	0.000	0.000	0.000					
50	6.5	1.724	0.000	0.000	0.000	0.000	0.000	0.000	0.801
0.867	0.056	0.000	0.000	0.000					
50	6.7	1.527	0.000	0.000	0.000	0.000	0.000	0.076	0.833
0.615	0.003	0.000	0.000	0.000					
50	6.9	1.402	0.000	0.000	0.000	0.000	0.000	0.319	0.965
0.118	0.000	0.000	0.000	0.000					
50	7.1	1.246	0.000	0.000	0.000	0.000	0.029	0.619	0.597
0.000	0.000	0.000	0.000	0.000					
50	7.3	0.950	0.000	0.000	0.000	0.000	0.156	0.649	0.145
0.000	0.000	0.000	0.000	0.000					
50	7.5	0.459	0.000	0.000	0.000	0.014	0.168	0.265	0.013
0.000	0.000	0.000	0.000	0.000					
50	7.7	0.052	0.000	0.000	0.000	0.007	0.032	0.013	0.000
0.000	0.000	0.000	0.000	0.000					
50	7.9	0.014	0.000	0.000	0.000	0.004	0.008	0.001	0.000
0.000	0.000	0.000	0.000	0.000					
30	5.1	2.664	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.729	1.152	0.646	0.130	0.007					
30	5.3	3.366	0.000	0.000	0.000	0.000	0.000	0.000	0.386
1.447	1.122	0.376	0.035	0.000					
30	5.5	3.999	0.000	0.000	0.000	0.000	0.000	0.341	1.240
1.558	0.729	0.130	0.000	0.000					
30	5.7	3.770	0.000	0.000	0.000	0.000	0.017	0.666	1.510
1.089	0.487	0.002	0.000	0.000					
30	5.9	3.376	0.000	0.000	0.000	0.000	0.115	0.974	1.307
0.875	0.104	0.000	0.000	0.000					
30	6.1	3.231	0.000	0.000	0.000	0.000	0.381	1.239	1.303
0.308	0.000	0.000	0.000	0.000					
30	6.3	2.974	0.000	0.000	0.000	0.051	0.905	1.185	0.812
0.021	0.000	0.000	0.000	0.000					
30	6.5	2.295	0.000	0.000	0.000	0.162	0.732	1.058	0.343
0.000	0.000	0.000	0.000	0.000					
30	6.7	1.873	0.000	0.000	0.009	0.206	0.720	0.826	0.111
0.000	0.000	0.000	0.000	0.000					
30	6.9	1.605	0.000	0.000	0.044	0.335	0.680	0.545	0.000
0.000	0.000	0.000	0.000	0.000					

30	7.1	1.351	0.000	0.006	0.095	0.458	0.647	0.145	0.000
0.000	0.000	0.000	0.000	0.000					
30	7.3	1.174	0.000	0.016	0.145	0.517	0.480	0.015	0.000
0.000	0.000	0.000	0.000	0.000					
30	7.5	0.559	0.000	0.019	0.114	0.279	0.147	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
30	7.7	0.051	0.000	0.003	0.015	0.026	0.006	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
30	7.9	0.010	0.000	0.001	0.004	0.005	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
10	5.1	5.228	0.000	0.000	0.100	0.493	0.593	1.450	1.784
0.749	0.059	0.000	0.000	0.000					
10	5.3	4.733	0.000	0.073	0.178	0.549	0.976	1.642	1.174
0.142	0.000	0.000	0.000	0.000					
10	5.5	4.014	0.112	0.033	0.391	0.615	1.298	1.207	0.358
0.000	0.000	0.000	0.000	0.000					
10	5.7	3.036	0.077	0.099	0.345	0.619	1.188	0.689	0.018
0.000	0.000	0.000	0.000	0.000					
10	5.9	2.233	0.054	0.199	0.271	0.622	0.876	0.212	0.000
0.000	0.000	0.000	0.000	0.000					
10	6.1	2.317	0.119	0.316	0.490	0.741	0.651	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
10	6.3	1.710	0.158	0.329	0.511	0.563	0.150	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
10	6.5	1.440	0.200	0.301	0.410	0.465	0.065	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
10	6.7	1.155	0.182	0.283	0.328	0.341	0.020	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
10	6.9	0.882	0.181	0.237	0.324	0.140	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
10	7.1	0.657	0.155	0.203	0.267	0.031	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
10	7.3	0.473	0.130	0.160	0.178	0.004	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
10	7.5	0.193	0.063	0.070	0.060	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
10	7.7	0.015	0.006	0.006	0.003	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
10	7.9	0.003	0.001	0.001	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					

Principal Sources (faults, subduction, random seismicity having > 3% contribution

WUSmap_2014_fixSm.ch.in (opt):

Percent Contributed: 11.66

Distance (km): 34.204662

Magnitude: 6.0871774

Epsilon (mean values): 0.050919472

noPuget_2014_fixSm.ch.in (opt):

Percent Contributed: 11.66

Distance (km): 34.198546

Magnitude: 6.0871227

Epsilon (mean values): 0.05082392
WUSmap_2014_fixSm.gr.in (opt):
 Percent Contributed: 11.5
 Distance (km): 33.699664
 Magnitude: 6.0753781
 Epsilon (mean values): 0.04065423
noPuget_2014_fixSm.gr.in (opt):
 Percent Contributed: 11.5
 Distance (km): 33.693488
 Magnitude: 6.0753224
 Epsilon (mean values): 0.040557594
noPuget_2014_adSm.ch.in (opt):
 Percent Contributed: 7.71
 Distance (km): 34.10913
 Magnitude: 6.0838791
 Epsilon (mean values): 0.041153981
WUSmap_2014_adSm.ch.in (opt):
 Percent Contributed: 7.7
 Distance (km): 34.097315
 Magnitude: 6.0836898
 Epsilon (mean values): 0.040855432
noPuget_2014_adSm.gr.in (opt):
 Percent Contributed: 7.62
 Distance (km): 33.678048
 Magnitude: 6.0736573
 Epsilon (mean values): 0.032279536
WUSmap_2014_adSm.gr.in (opt):
 Percent Contributed: 7.61
 Distance (km): 33.667282
 Magnitude: 6.0734874
 Epsilon (mean values): 0.032003813
sub0_ch_bot.in:
 Percent Contributed: 4.29
 Distance (km): 308.17316
 Magnitude: 9.1209041
 Epsilon (mean values): 0.72249327
Cascadia Megathrust - whole CSZ Characteristic:
 Percent Contributed: 4.29
 Distance (km): 308.17316
 Magnitude: 9.1209041
 Epsilon (mean values): 0.72249327
 Azimuth: 285.86185
 Latitude: 46.3
 Longitude: -123.4132
sub0_ch_mid.in:
 Percent Contributed: 2.89
 Distance (km): 361.47413
 Magnitude: 8.9281769
 Epsilon (mean values): 1.1484289
Cascadia Megathrust - whole CSZ Characteristic:

Percent Contributed: 2.89
Distance (km): 361.47413
Magnitude: 8.9281769
Epsilon (mean values): 1.1484289
Azimuth: 283.89391
Latitude: 46.3
Longitude: -124.13677

WUSmap_2014_fixSm_M8.in (opt):
Percent Contributed: 2.85
Distance (km): 37.055363
Magnitude: 6.2098604
Epsilon (mean values): 0.02604556

noPuget_2014_fixSm_M8.in (opt):
Percent Contributed: 2.85
Distance (km): 37.019669
Magnitude: 6.2095186
Epsilon (mean values): 0.025591649

noPuget_2014_adSm_M8.in (opt):
Percent Contributed: 1.89
Distance (km): 37.057976
Magnitude: 6.2073833
Epsilon (mean values): 0.01868423

WUSmap_2014_adSm_M8.in (opt):
Percent Contributed: 1.88
Distance (km): 37.059703
Magnitude: 6.207237
Epsilon (mean values): 0.018577657

PSHA Deaggregation. %contributions.
site: Test
longitude: 119.584°W
latitude: 45.612°E
imt: Peak Ground Acceleration
vs30 = 537 m/s (Site class C)
return period: 475 yrs.
#This deaggregation corresponds to: GMM: Abrahamson, Silva & Kamai (2014)
Summary statistics for PSHA PGA deaggregation, r=distance, ε=epsilon:
Deaggregation targets:
Return period: 475 yrs
Exceedance rate: 0.0021052632 yr⁻¹
PGA ground motion: 0.080453256 g

Recovered targets:
Return period: 482.32606 yrs
Exceedance rate: 0.0020732863 yr⁻¹

Totals:
Binned: 23.3 %
Residual: 0 %
Trace: 0.22 %

Mean (over all sources):
m: 6.06
r: 35.14 km

0.257	0.189	0.001	0.000	0.000						
50	6.3	0.471	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.128
0.285	0.057	0.000	0.000	0.000						
50	6.5	0.426	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.192
0.221	0.012	0.000	0.000	0.000						
50	6.7	0.364	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.198
0.166	0.000	0.000	0.000	0.000						
50	6.9	0.338	0.000	0.000	0.000	0.000	0.000	0.000	0.058	0.240
0.040	0.000	0.000	0.000	0.000						
50	7.1	0.301	0.000	0.000	0.000	0.000	0.000	0.000	0.144	0.157
0.000	0.000	0.000	0.000	0.000						
50	7.3	0.232	0.000	0.000	0.000	0.000	0.020	0.175	0.038	
0.000	0.000	0.000	0.000	0.000						
50	7.5	0.113	0.000	0.000	0.000	0.000	0.038	0.076	0.000	
0.000	0.000	0.000	0.000	0.000						
50	7.7	0.013	0.000	0.000	0.000	0.000	0.010	0.002	0.000	
0.000	0.000	0.000	0.000	0.000						
50	7.9	0.003	0.000	0.000	0.000	0.001	0.003	0.000	0.000	
0.000	0.000	0.000	0.000	0.000						
30	5.1	1.138	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
0.507	0.431	0.200	0.000	0.000						
30	5.3	1.076	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.137
0.544	0.322	0.073	0.000	0.000						
30	5.5	1.004	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.325
0.402	0.277	0.000	0.000	0.000						
30	5.7	0.927	0.000	0.000	0.000	0.000	0.000	0.071	0.431	
0.326	0.099	0.000	0.000	0.000						
30	5.9	0.839	0.000	0.000	0.000	0.000	0.000	0.227	0.323	
0.288	0.000	0.000	0.000	0.000						
30	6.1	0.799	0.000	0.000	0.000	0.000	0.062	0.280	0.395	
0.061	0.000	0.000	0.000	0.000						
30	6.3	0.734	0.000	0.000	0.000	0.000	0.205	0.313	0.215	
0.000	0.000	0.000	0.000	0.000						
30	6.5	0.547	0.000	0.000	0.000	0.000	0.174	0.262	0.111	
0.000	0.000	0.000	0.000	0.000						
30	6.7	0.442	0.000	0.000	0.000	0.013	0.153	0.222	0.054	
0.000	0.000	0.000	0.000	0.000						
30	6.9	0.385	0.000	0.000	0.000	0.050	0.168	0.167	0.000	
0.000	0.000	0.000	0.000	0.000						
30	7.1	0.327	0.000	0.000	0.000	0.102	0.171	0.054	0.000	
0.000	0.000	0.000	0.000	0.000						
30	7.3	0.287	0.000	0.000	0.008	0.127	0.152	0.000	0.000	
0.000	0.000	0.000	0.000	0.000						
30	7.5	0.137	0.000	0.000	0.016	0.076	0.045	0.000	0.000	
0.000	0.000	0.000	0.000	0.000						
30	7.7	0.013	0.000	0.000	0.003	0.009	0.001	0.000	0.000	
0.000	0.000	0.000	0.000	0.000						
30	7.9	0.003	0.000	0.000	0.001	0.002	0.000	0.000	0.000	
0.000	0.000	0.000	0.000	0.000						
10	5.1	1.601	0.000	0.000	0.000	0.213	0.173	0.596	0.587	

0.032	0.000	0.000	0.000	0.000					
10	5.3	1.248	0.000	0.000	0.069	0.122	0.292	0.492	0.273
0.000	0.000	0.000	0.000	0.000					
10	5.5	0.962	0.000	0.000	0.107	0.076	0.291	0.396	0.091
0.000	0.000	0.000	0.000	0.000					
10	5.7	0.727	0.000	0.000	0.075	0.110	0.292	0.250	0.000
0.000	0.000	0.000	0.000	0.000					
10	5.9	0.540	0.000	0.053	0.032	0.113	0.265	0.078	0.000
0.000	0.000	0.000	0.000	0.000					
10	6.1	0.564	0.006	0.054	0.107	0.187	0.209	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
10	6.3	0.419	0.016	0.069	0.109	0.146	0.078	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
10	6.5	0.351	0.023	0.055	0.098	0.140	0.036	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
10	6.7	0.283	0.020	0.062	0.076	0.106	0.020	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
10	6.9	0.218	0.027	0.047	0.076	0.067	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
10	7.1	0.162	0.020	0.043	0.080	0.019	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
10	7.3	0.117	0.018	0.033	0.064	0.003	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
10	7.5	0.048	0.009	0.016	0.023	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
10	7.7	0.004	0.001	0.002	0.001	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
10	7.9	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					

Principal Sources (faults, subduction, random seismicity having > 3% contribution

WUSmap_2014_fixSm.ch.in (opt):

Percent Contributed: 3.07
 Distance (km): 34.190656
 Magnitude: 6.0290455
 Epsilon (mean values): 0.15927207

noPuget_2014_fixSm.ch.in (opt):

Percent Contributed: 3.07
 Distance (km): 34.185646
 Magnitude: 6.0289972
 Epsilon (mean values): 0.15919404

WUSmap_2014_fixSm.gr.in (opt):

Percent Contributed: 3.03
 Distance (km): 33.726465
 Magnitude: 6.0174025
 Epsilon (mean values): 0.15090893

noPuget_2014_fixSm.gr.in (opt):

Percent Contributed: 3.03
 Distance (km): 33.721384
 Magnitude: 6.0173533
 Epsilon (mean values): 0.15082977

noPuget_2014_adSm.ch.in (opt):
Percent Contributed: 2.03
Distance (km): 34.0876
Magnitude: 6.0261246
Epsilon (mean values): 0.14914068
WUSmap_2014_adSm.ch.in (opt):
Percent Contributed: 2.03
Distance (km): 34.075615
Magnitude: 6.0259316
Epsilon (mean values): 0.14885491
noPuget_2014_adSm.gr.in (opt):
Percent Contributed: 2.01
Distance (km): 33.691122
Magnitude: 6.0160385
Epsilon (mean values): 0.14190418
WUSmap_2014_adSm.gr.in (opt):
Percent Contributed: 2
Distance (km): 33.680145
Magnitude: 6.0158651
Epsilon (mean values): 0.14163816
PSHA Deaggregation. %contributions.
site: Test
longitude: 119.584°W
latitude: 45.612°E
imt: Peak Ground Acceleration
vs30 = 537 m/s (Site class C)
return period: 475 yrs.
#This deaggregation corresponds to: GMM: Boore, Stewart, Seyhan & Atkinson (2014)
Summary statistics for PSHA PGA deaggregation, r=distance, ϵ =epsilon:
Deaggregation targets:
Return period: 475 yrs
Exceedance rate: 0.0021052632 yr⁻¹
PGA ground motion: 0.080453256 g
Recovered targets:
Return period: 482.32606 yrs
Exceedance rate: 0.0020732863 yr⁻¹
Totals:
Binned: 26.2 %
Residual: 0 %
Trace: 0.23 %
Mean (over all sources):
m: 6.06
r: 35.8 km
 ϵ_0 : 0.04 σ
Mode (largest m-r bin):
m: 5.5
r: 28.62 km
 ϵ_0 : 0.35 σ
Contribution: 1.58 %
Mode (largest m-r- ϵ_0 bin):

m: 5.5
 r: 26.2 km
 ϵ_0 : 0.22 σ
 Contribution: 0.62 %

Discretization:

r: min = 0.0, max = 1000.0, Δ = 20.0 km
 m: min = 4.4, max = 9.4, Δ = 0.2
 ϵ : min = -3.0, max = 3.0, Δ = 0.5 σ

Epsilon keys:

ϵ_0 : $[-\infty \dots -2.5)$
 ϵ_1 : $[-2.5 \dots -2.0)$
 ϵ_2 : $[-2.0 \dots -1.5)$
 ϵ_3 : $[-1.5 \dots -1.0)$
 ϵ_4 : $[-1.0 \dots -0.5)$
 ϵ_5 : $[-0.5 \dots 0.0)$
 ϵ_6 : $[0.0 \dots 0.5)$
 ϵ_7 : $[0.5 \dots 1.0)$
 ϵ_8 : $[1.0 \dots 1.5)$
 ϵ_9 : $[1.5 \dots 2.0)$
 ϵ_{10} : $[2.0 \dots 2.5)$
 ϵ_{11} : $[2.5 \dots +\infty)$

Closest Distance, rRup (km)				Magnitude (Mw)		ALL_ ϵ	$\epsilon = (-\infty, -2.5)$	$\epsilon = [-2.5, -2)$	
$\epsilon = [-2, -1.5)$	$\epsilon = [-1.5, -1)$	$\epsilon = [-1, -0.5)$	$\epsilon = [-0.5, 0)$	$\epsilon = [0, 0.5)$	$\epsilon = [0.5, 1)$	$\epsilon = [1, 1.5)$	$\epsilon = [1.5, 2)$	$\epsilon = [2, 2.5)$	$\epsilon = [2.5, \infty)$
270	7.9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
250	7.7	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
250	7.9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
230	7.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
230	7.7	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
230	7.9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
210	7.3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
210	7.5	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000
210	7.7	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
210	7.9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
190	6.9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
190	7.1	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000
190	7.3	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.003	0.000	0.000	0.000	0.000	0.000

190	7.5	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.002	0.001					
190	7.7	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.001	0.000					
190	7.9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
170	6.7	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
170	6.9	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.002					
170	7.1	0.006	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.001	0.004					
170	7.3	0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.009	0.002					
170	7.5	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.007	0.000					
170	7.7	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.001	0.000	0.000					
170	7.9	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
150	6.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
150	6.7	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.003					
150	6.9	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.004	0.005					
150	7.1	0.015	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.013	0.001					
150	7.3	0.021	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.008	0.012	0.000					
150	7.5	0.015	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.013	0.002	0.000					
150	7.7	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.001	0.002	0.000	0.000					
150	7.9	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.001	0.000	0.000	0.000					
130	6.1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
130	6.3	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.002					
130	6.5	0.009	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.001	0.008					
130	6.7	0.019	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.015	0.004					
130	6.9	0.029	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.004	0.025	0.000					
130	7.1	0.037	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.028	0.009	0.000					
130	7.3	0.041	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.003	0.039	0.000	0.000					

130	7.5	0.024	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.013	0.011	0.000	0.000					
130	7.7	0.004	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.004	0.000	0.000	0.000					
130	7.9	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.001	0.001	0.000	0.000	0.000					
110	5.7	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
110	5.9	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.003					
110	6.1	0.009	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.001	0.008					
110	6.3	0.019	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.012	0.007					
110	6.5	0.029	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.028	0.001					
110	6.7	0.041	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.021	0.020	0.000					
110	6.9	0.051	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.048	0.002	0.000					
110	7.1	0.069	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.029	0.040	0.000	0.000					
110	7.3	0.084	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.071	0.012	0.000	0.000					
110	7.5	0.052	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.012	0.039	0.000	0.000	0.000					
110	7.7	0.007	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.005	0.002	0.000	0.000	0.000					
110	7.9	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.001	0.000	0.000	0.000	0.000					
90	5.3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
90	5.5	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.008					
90	5.7	0.023	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.009	0.014					
90	5.9	0.039	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.029	0.010					
90	6.1	0.058	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.010	0.047	0.002					
90	6.3	0.076	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.049	0.027	0.000					
90	6.5	0.092	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.008	0.078	0.006	0.000					
90	6.7	0.110	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.058	0.052	0.000	0.000					
90	6.9	0.128	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.001	0.115	0.012	0.000	0.000					
90	7.1	0.133	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.058	0.075	0.000	0.000	0.000					

90	7.3	0.123	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.104	0.019	0.000	0.000	0.000					
90	7.5	0.061	0.000	0.000	0.000	0.000	0.000	0.000	0.010
0.050	0.000	0.000	0.000	0.000					
90	7.7	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.006
0.002	0.000	0.000	0.000	0.000					
90	7.9	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.002
0.000	0.000	0.000	0.000	0.000					
70	5.1	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.001					
70	5.3	0.023	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.007	0.016					
70	5.5	0.106	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.016	0.080	0.010					
70	5.7	0.151	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.088	0.063	0.000					
70	5.9	0.177	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.008	0.138	0.031	0.000					
70	6.1	0.215	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.099	0.116	0.000	0.000					
70	6.3	0.230	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.173	0.057	0.000	0.000					
70	6.5	0.257	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.088	0.162	0.006	0.000	0.000					
70	6.7	0.261	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.175	0.086	0.000	0.000	0.000					
70	6.9	0.227	0.000	0.000	0.000	0.000	0.000	0.000	0.034
0.176	0.018	0.000	0.000	0.000					
70	7.1	0.241	0.000	0.000	0.000	0.000	0.000	0.000	0.134
0.107	0.000	0.000	0.000	0.000					
70	7.3	0.230	0.000	0.000	0.000	0.000	0.000	0.000	0.200
0.031	0.000	0.000	0.000	0.000					
70	7.5	0.113	0.000	0.000	0.000	0.000	0.000	0.041	0.072
0.000	0.000	0.000	0.000	0.000					
70	7.7	0.018	0.000	0.000	0.000	0.000	0.000	0.015	0.004
0.000	0.000	0.000	0.000	0.000					
70	7.9	0.003	0.000	0.000	0.000	0.000	0.000	0.003	0.000
0.000	0.000	0.000	0.000	0.000					
50	5.1	0.080	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.059	0.021					
50	5.3	0.250	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.007	0.151	0.087	0.005					
50	5.5	0.544	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.012	0.319	0.203	0.010	0.000					
50	5.7	0.583	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.131	0.345	0.106	0.000	0.000					
50	5.9	0.549	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.273	0.268	0.008	0.000	0.000					
50	6.1	0.572	0.000	0.000	0.000	0.000	0.000	0.000	0.050
0.373	0.149	0.000	0.000	0.000					

10	5.3	1.343	0.000	0.073	0.086	0.137	0.372	0.504	0.172
0.000	0.000	0.000	0.000	0.000					
10	5.5	1.172	0.112	0.000	0.103	0.321	0.493	0.143	0.000
0.000	0.000	0.000	0.000	0.000					
10	5.7	0.848	0.077	0.011	0.160	0.238	0.345	0.017	0.000
0.000	0.000	0.000	0.000	0.000					
10	5.9	0.596	0.054	0.050	0.108	0.208	0.176	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
10	6.1	0.594	0.059	0.090	0.138	0.179	0.126	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
10	6.3	0.428	0.050	0.070	0.141	0.134	0.033	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
10	6.5	0.359	0.035	0.075	0.106	0.121	0.022	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
10	6.7	0.288	0.024	0.079	0.086	0.098	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
10	6.9	0.219	0.028	0.063	0.082	0.046	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
10	7.1	0.163	0.024	0.045	0.085	0.009	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
10	7.3	0.118	0.019	0.038	0.059	0.001	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
10	7.5	0.048	0.009	0.019	0.020	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
10	7.7	0.004	0.001	0.002	0.001	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
10	7.9	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					

Principal Sources (faults, subduction, random seismicity having > 3% contribution

WUSmap_2014_fixSm.ch.in (opt):

Percent Contributed: 3.46

Distance (km): 34.977813

Magnitude: 6.0287636

Epsilon (mean values): 0.035840411

noPuget_2014_fixSm.ch.in (opt):

Percent Contributed: 3.46

Distance (km): 34.97366

Magnitude: 6.0287242

Epsilon (mean values): 0.03576951

WUSmap_2014_fixSm.gr.in (opt):

Percent Contributed: 3.41

Distance (km): 34.522741

Magnitude: 6.0173542

Epsilon (mean values): 0.026618773

noPuget_2014_fixSm.gr.in (opt):

Percent Contributed: 3.41

Distance (km): 34.518529

Magnitude: 6.017314

Epsilon (mean values): 0.026546837

noPuget_2014_adSm.ch.in (opt):

Percent Contributed: 2.28
Distance (km): 34.850813
Magnitude: 6.0260649
Epsilon (mean values): 0.024249505
WUSmap_2014_adSm.ch.in (opt):
Percent Contributed: 2.28
Distance (km): 34.83949
Magnitude: 6.0258939
Epsilon (mean values): 0.023933305
noPuget_2014_adSm.gr.in (opt):
Percent Contributed: 2.26
Distance (km): 34.460352
Magnitude: 6.0161434
Epsilon (mean values): 0.016246878
WUSmap_2014_adSm.gr.in (opt):
Percent Contributed: 2.25
Distance (km): 34.450022
Magnitude: 6.0159918
Epsilon (mean values): 0.015951933
PSHA Deaggregation. %contributions.
site: Test
longitude: 119.584°W
latitude: 45.612°E
imt: Peak Ground Acceleration
vs30 = 537 m/s (Site class C)
return period: 475 yrs.
#This deaggregation corresponds to: GMM: Campbell & Bozorgnia (2014)
Summary statistics for PSHA PGA deaggregation, r=distance, ε=epsilon:
Deaggregation targets:
Return period: 475 yrs
Exceedance rate: 0.0021052632 yr⁻¹
PGA ground motion: 0.080453256 g
Recovered targets:
Return period: 482.32606 yrs
Exceedance rate: 0.0020732863 yr⁻¹
Totals:
Binned: 19.21 %
Residual: 0 %
Trace: 0.17 %
Mean (over all sources):
m: 6.19
r: 34.01 km
ε₀: -0.01 σ
Mode (largest m-r bin):
m: 5.3
r: 12.23 km
ε₀: -0.23 σ
Contribution: 1.03 %
Mode (largest m-r-ε₀ bin):
m: 5.1

0.190	0.020	0.000	0.000	0.000					
70	7.1	0.219	0.000	0.000	0.000	0.000	0.000	0.000	0.085
0.134	0.000	0.000	0.000	0.000					
70	7.3	0.209	0.000	0.000	0.000	0.000	0.000	0.000	0.154
0.055	0.000	0.000	0.000	0.000					
70	7.5	0.102	0.000	0.000	0.000	0.000	0.000	0.005	0.095
0.003	0.000	0.000	0.000	0.000					
70	7.7	0.017	0.000	0.000	0.000	0.000	0.000	0.011	0.006
0.000	0.000	0.000	0.000	0.000					
70	7.9	0.003	0.000	0.000	0.000	0.000	0.000	0.002	0.000
0.000	0.000	0.000	0.000	0.000					
50	5.1	0.007	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.001	0.006					
50	5.3	0.033	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.020	0.012					
50	5.5	0.094	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.036	0.049	0.009					
50	5.7	0.157	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.015	0.103	0.038	0.000					
50	5.9	0.227	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.126	0.094	0.007	0.000					
50	6.1	0.366	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.156	0.184	0.026	0.000	0.000					
50	6.3	0.444	0.000	0.000	0.000	0.000	0.000	0.000	0.095
0.277	0.072	0.000	0.000	0.000					
50	6.5	0.461	0.000	0.000	0.000	0.000	0.000	0.000	0.230
0.231	0.000	0.000	0.000	0.000					
50	6.7	0.391	0.000	0.000	0.000	0.000	0.000	0.015	0.225
0.151	0.000	0.000	0.000	0.000					
50	6.9	0.340	0.000	0.000	0.000	0.000	0.000	0.058	0.248
0.034	0.000	0.000	0.000	0.000					
50	7.1	0.291	0.000	0.000	0.000	0.000	0.000	0.116	0.175
0.000	0.000	0.000	0.000	0.000					
50	7.3	0.217	0.000	0.000	0.000	0.000	0.001	0.142	0.073
0.000	0.000	0.000	0.000	0.000					
50	7.5	0.104	0.000	0.000	0.000	0.000	0.014	0.077	0.013
0.000	0.000	0.000	0.000	0.000					
50	7.7	0.012	0.000	0.000	0.000	0.000	0.005	0.007	0.000
0.000	0.000	0.000	0.000	0.000					
50	7.9	0.003	0.000	0.000	0.000	0.000	0.002	0.001	0.000
0.000	0.000	0.000	0.000	0.000					
30	5.1	0.292	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.119	0.118	0.048	0.007					
30	5.3	0.478	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.141	0.206	0.103	0.029	0.000					
30	5.5	0.708	0.000	0.000	0.000	0.000	0.000	0.000	0.165
0.297	0.179	0.067	0.000	0.000					
30	5.7	0.755	0.000	0.000	0.000	0.000	0.000	0.053	0.295
0.222	0.183	0.001	0.000	0.000					
30	5.9	0.742	0.000	0.000	0.000	0.000	0.000	0.167	0.285

0.000 0.000 0.000 0.000 0.000
Principal Sources (faults, subduction, random seismicity having > 3% contribution
WUSmap_2014_fixSm.ch.in (opt):
Percent Contributed: 2.52
Distance (km): 33.061402
Magnitude: 6.1670686
Epsilon (mean values): -0.023089119
noPuget_2014_fixSm.ch.in (opt):
Percent Contributed: 2.52
Distance (km): 33.060077
Magnitude: 6.1670558
Epsilon (mean values): -0.023115023
WUSmap_2014_fixSm.gr.in (opt):
Percent Contributed: 2.48
Distance (km): 32.488932
Magnitude: 6.155376
Epsilon (mean values): -0.036351725
noPuget_2014_fixSm.gr.in (opt):
Percent Contributed: 2.48
Distance (km): 32.487582
Magnitude: 6.1553629
Epsilon (mean values): -0.036378115
noPuget_2014_adSm.ch.in (opt):
Percent Contributed: 1.67
Distance (km): 32.917899
Magnitude: 6.1620547
Epsilon (mean values): -0.032329317
WUSmap_2014_adSm.ch.in (opt):
Percent Contributed: 1.67
Distance (km): 32.906176
Magnitude: 6.1618751
Epsilon (mean values): -0.032640386
noPuget_2014_adSm.gr.in (opt):
Percent Contributed: 1.64
Distance (km): 32.428496
Magnitude: 6.1518965
Epsilon (mean values): -0.043776931
WUSmap_2014_adSm.gr.in (opt):
Percent Contributed: 1.64
Distance (km): 32.417921
Magnitude: 6.1517355
Epsilon (mean values): -0.044060406
PSHA Deaggregation. %contributions.
site: Test
longitude: 119.584°W
latitude: 45.612°E
imt: Peak Ground Acceleration
vs30 = 537 m/s (Site class C)
return period: 475 yrs.
#This deaggregation corresponds to: GMM: Chiou & Youngs (2014)

Summary statistics for PSHA PGA deaggregation, r=distance, ε=epsilon:

Deaggregation targets:

Return period: 475 yrs
 Exceedance rate: 0.0021052632 yr⁻¹
 PGA ground motion: 0.080453256 g

Recovered targets:

Return period: 482.32606 yrs
 Exceedance rate: 0.0020732863 yr⁻¹

Totals:

Binned: 20.06 %
 Residual: 0 %
 Trace: 0.28 %

Mean (over all sources):

m: 6.19
 r: 35.82 km
 ε₀: 0.02 σ

Mode (largest m-r bin):

m: 5.1
 r: 11.95 km
 ε₀: -0.04 σ
 Contribution: 1.27 %

Mode (largest m-r-ε₀ bin):

m: 5.1
 r: 13.86 km
 ε₀: 0.26 σ
 Contribution: 0.43 %

Discretization:

r: min = 0.0, max = 1000.0, Δ = 20.0 km
 m: min = 4.4, max = 9.4, Δ = 0.2
 ε: min = -3.0, max = 3.0, Δ = 0.5 σ

Epsilon keys:

ε₀: [-∞ .. -2.5)
 ε₁: [-2.5 .. -2.0)
 ε₂: [-2.0 .. -1.5)
 ε₃: [-1.5 .. -1.0)
 ε₄: [-1.0 .. -0.5)
 ε₅: [-0.5 .. 0.0)
 ε₆: [0.0 .. 0.5)
 ε₇: [0.5 .. 1.0)
 ε₈: [1.0 .. 1.5)
 ε₉: [1.5 .. 2.0)
 ε₁₀: [2.0 .. 2.5)
 ε₁₁: [2.5 .. +∞)

Closest Distance, rRup (km)				Magnitude (Mw)		ALL_ε	ε=(-∞, -2.5)	ε=[-2.5, -2)	
ε=[-2, -1.5)		ε=[-1.5, -1)		ε=[-1, -0.5)		ε=[-0.5, 0)		ε=[0, 0.5)	
ε=[0.5, 1)		ε=[1, 1.5)		ε=[1.5, 2)		ε=[2, 2.5)		ε=[2.5, ∞)	
290	7.7	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
290	7.9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					

170	7.9	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.001	0.001	0.000	0.000	0.000					
150	6.7	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.001					
150	6.9	0.007	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.004	0.004					
150	7.1	0.020	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.005	0.015	0.001					
150	7.3	0.038	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.002	0.032	0.003	0.000					
150	7.5	0.031	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.017	0.014	0.000	0.000					
150	7.7	0.006	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.002	0.004	0.000	0.000	0.000					
150	7.9	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.002	0.000	0.000	0.000	0.000					
130	6.3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
130	6.5	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.003					
130	6.7	0.011	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.007	0.005					
130	6.9	0.031	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.010	0.020	0.000					
130	7.1	0.052	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.003	0.044	0.004	0.000					
130	7.3	0.071	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.052	0.019	0.000	0.000					
130	7.5	0.046	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.011	0.034	0.001	0.000	0.000					
130	7.7	0.007	0.000	0.000	0.000	0.000	0.000	0.000	0.001
0.006	0.001	0.000	0.000	0.000					
130	7.9	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.002
0.001	0.000	0.000	0.000	0.000					
110	5.9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
110	6.1	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.002					
110	6.3	0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.003	0.007					
110	6.5	0.016	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.011	0.004					
110	6.7	0.027	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.007	0.020	0.001					
110	6.9	0.050	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.004	0.042	0.004	0.000					
110	7.1	0.089	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.062	0.026	0.000	0.000					
110	7.3	0.128	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.044	0.084	0.000	0.000	0.000					

110	7.5	0.086	0.000	0.000	0.000	0.000	0.000	0.000	0.002
0.076	0.008	0.000	0.000	0.000					
110	7.7	0.013	0.000	0.000	0.000	0.000	0.000	0.000	0.007
0.005	0.000	0.000	0.000	0.000					
110	7.9	0.003	0.000	0.000	0.000	0.000	0.000	0.001	0.002
0.000	0.000	0.000	0.000	0.000					
90	5.7	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.001					
90	5.9	0.007	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.007					
90	6.1	0.022	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.014	0.008					
90	6.3	0.044	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.009	0.034	0.001					
90	6.5	0.054	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.034	0.020	0.000					
90	6.7	0.075	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.014	0.058	0.003	0.000					
90	6.9	0.119	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.004	0.098	0.017	0.000	0.000					
90	7.1	0.152	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.097	0.055	0.000	0.000	0.000					
90	7.3	0.161	0.000	0.000	0.000	0.000	0.000	0.000	0.043
0.113	0.005	0.000	0.000	0.000					
90	7.5	0.085	0.000	0.000	0.000	0.000	0.000	0.001	0.066
0.018	0.000	0.000	0.000	0.000					
90	7.7	0.011	0.000	0.000	0.000	0.000	0.000	0.005	0.006
0.000	0.000	0.000	0.000	0.000					
90	7.9	0.003	0.000	0.000	0.000	0.000	0.000	0.002	0.000
0.000	0.000	0.000	0.000	0.000					
70	5.1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
70	5.3	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.002					
70	5.5	0.011	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.001	0.010					
70	5.7	0.029	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.017	0.013					
70	5.9	0.053	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.006	0.043	0.004					
70	6.1	0.097	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.068	0.029	0.000					
70	6.3	0.140	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.053	0.085	0.002	0.000					
70	6.5	0.167	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.005	0.114	0.048	0.000	0.000					
70	6.7	0.190	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.068	0.114	0.008	0.000	0.000					
70	6.9	0.207	0.000	0.000	0.000	0.000	0.000	0.000	0.023
0.149	0.034	0.000	0.000	0.000					

70	7.1	0.255	0.000	0.000	0.000	0.000	0.000	0.000	0.163
0.092	0.000	0.000	0.000	0.000					
70	7.3	0.269	0.000	0.000	0.000	0.000	0.000	0.103	0.156
0.010	0.000	0.000	0.000	0.000					
70	7.5	0.137	0.000	0.000	0.000	0.000	0.002	0.094	0.041
0.000	0.000	0.000	0.000	0.000					
70	7.7	0.022	0.000	0.000	0.000	0.000	0.014	0.008	0.000
0.000	0.000	0.000	0.000	0.000					
70	7.9	0.004	0.000	0.000	0.000	0.000	0.003	0.001	0.000
0.000	0.000	0.000	0.000	0.000					
50	5.1	0.038	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.018	0.019					
50	5.3	0.083	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.007	0.060	0.015					
50	5.5	0.130	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.067	0.059	0.004					
50	5.7	0.176	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.024	0.113	0.038	0.000					
50	5.9	0.222	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.117	0.100	0.005	0.000					
50	6.1	0.320	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.094	0.184	0.042	0.000	0.000					
50	6.3	0.362	0.000	0.000	0.000	0.000	0.000	0.000	0.024
0.220	0.118	0.000	0.000	0.000					
50	6.5	0.362	0.000	0.000	0.000	0.000	0.000	0.000	0.125
0.193	0.044	0.000	0.000	0.000					
50	6.7	0.345	0.000	0.000	0.000	0.000	0.000	0.011	0.158
0.172	0.003	0.000	0.000	0.000					
50	6.9	0.351	0.000	0.000	0.000	0.000	0.000	0.089	0.223
0.040	0.000	0.000	0.000	0.000					
50	7.1	0.333	0.000	0.000	0.000	0.000	0.027	0.188	0.118
0.000	0.000	0.000	0.000	0.000					
50	7.3	0.262	0.000	0.000	0.000	0.000	0.099	0.153	0.009
0.000	0.000	0.000	0.000	0.000					
50	7.5	0.128	0.000	0.000	0.000	0.014	0.073	0.041	0.000
0.000	0.000	0.000	0.000	0.000					
50	7.7	0.014	0.000	0.000	0.000	0.006	0.008	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
50	7.9	0.004	0.000	0.000	0.000	0.003	0.001	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
30	5.1	0.539	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.078	0.271	0.134	0.055	0.000					
30	5.3	0.654	0.000	0.000	0.000	0.000	0.000	0.000	0.009
0.252	0.238	0.149	0.006	0.000					
30	5.5	0.708	0.000	0.000	0.000	0.000	0.000	0.000	0.131
0.315	0.199	0.063	0.000	0.000					
30	5.7	0.720	0.000	0.000	0.000	0.000	0.000	0.012	0.274
0.228	0.204	0.001	0.000	0.000					
30	5.9	0.701	0.000	0.000	0.000	0.000	0.000	0.136	0.279
0.230	0.057	0.000	0.000	0.000					

Principal Sources (faults, subduction, random seismicity having > 3% contribution

WUSmap_2014_fixSm.ch.in (opt):

Percent Contributed: 2.61
Distance (km): 34.300581
Magnitude: 6.1557574
Epsilon (mean values): 0.014950322

noPuget_2014_fixSm.ch.in (opt):

Percent Contributed: 2.61
Distance (km): 34.285972
Magnitude: 6.1556374
Epsilon (mean values): 0.014734005

WUSmap_2014_fixSm.gr.in (opt):

Percent Contributed: 2.57
Distance (km): 33.743221
Magnitude: 6.1435476
Epsilon (mean values): 0.0036414326

noPuget_2014_fixSm.gr.in (opt):

Percent Contributed: 2.57
Distance (km): 33.728519
Magnitude: 6.1434257
Epsilon (mean values): 0.0034233787

noPuget_2014_adSm.ch.in (opt):

Percent Contributed: 1.73
Distance (km): 34.303788
Magnitude: 6.1525117
Epsilon (mean values): 0.0076313894

WUSmap_2014_adSm.ch.in (opt):

Percent Contributed: 1.73
Distance (km): 34.291444
Magnitude: 6.1522937
Epsilon (mean values): 0.0073529117

noPuget_2014_adSm.gr.in (opt):

Percent Contributed: 1.71
Distance (km): 33.831955
Magnitude: 6.142003
Epsilon (mean values): -0.0021018852

WUSmap_2014_adSm.gr.in (opt):

Percent Contributed: 1.71
Distance (km): 33.820689
Magnitude: 6.1418041
Epsilon (mean values): -0.0023559677

PSHA Deaggregation. %contributions.

site: Test

longitude: 119.584°W

latitude: 45.612°E

imt: Peak Ground Acceleration

vs30 = 537 m/s (Site class C)

return period: 475 yrs.

#This deaggregation corresponds to: GMM: Atkinson & Macias (2009) : Interface

Summary statistics for PSHA PGA deaggregation, r=distance, ε=epsilon:

0.000	0.000	0.000	0.000	0.000					
330	8.7	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
330	8.9	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.001					
310	8.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
310	8.7	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.002					
310	8.9	0.016	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.001	0.015					
310	9.1	0.032	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.032	0.000					
310	9.3	0.111	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.111	0.000	0.000					

Principal Sources (faults, subduction, random seismicity having > 3% contribution
PSHA Deaggregation. %contributions.

site: Test

longitude: 119.584°W

latitude: 45.612°E

imt: Peak Ground Acceleration

vs30 = 537 m/s (Site class C)

return period: 475 yrs.

#This deaggregation corresponds to: GMM: BC Hydro (2012) : Interface

Summary statistics for PSHA PGA deaggregation, r=distance, ε=epsilon:

Deaggregation targets:

Return period: 475 yrs

Exceedance rate: 0.0021052632 yr⁻¹

PGA ground motion: 0.080453256 g

Recovered targets:

Return period: 482.32606 yrs

Exceedance rate: 0.0020732863 yr⁻¹

Totals:

Binned: 7.22 %

Residual: 0 %

Trace: 0.07 %

Mean (over all sources):

m: 8.89

r: 343.11 km

ε₀: 0.91 σ

Mode (largest m-r bin):

m: 9.34

r: 308.17 km

ε₀: 0.37 σ

Contribution: 1.09 %

Mode (largest m-r-ε₀ bin):

m: 9.34

r: 308.17 km

ε₀: 0.37 σ

Contribution: 1.09 %

Discretization:

r: min = 0.0, max = 1000.0, Δ = 20.0 km

m: min = 4.4, max = 9.4, Δ = 0.2

ε: min = -3.0, max = 3.0, Δ = 0.5 σ

Epsilon keys:

- ε0: [-∞ .. -2.5)
- ε1: [-2.5 .. -2.0)
- ε2: [-2.0 .. -1.5)
- ε3: [-1.5 .. -1.0)
- ε4: [-1.0 .. -0.5)
- ε5: [-0.5 .. 0.0)
- ε6: [0.0 .. 0.5)
- ε7: [0.5 .. 1.0)
- ε8: [1.0 .. 1.5)
- ε9: [1.5 .. 2.0)
- ε10: [2.0 .. 2.5)
- ε11: [2.5 .. +∞)

Closest Distance, rRup (km)		Magnitude (Mw)		ALL_ε	ε=(-∞, -2.5)	ε=[-2.5, -2)
ε=[-2, -1.5)	ε=[-1.5, -1)	ε=[-1, -0.5)	ε=[-0.5, 0)	ε=[-0.5, 0)	ε=[0, 0.5)	ε=[0, 0.5)
ε=[0.5, 1)	ε=[1, 1.5)	ε=[1.5, 2)	ε=[2, 2.5)	ε=[2, 2.5)	ε=[2.5, ∞)	ε=[2.5, ∞)
590	7.9	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000
570	7.9	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000
570	8.1	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000
550	7.9	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000
550	8.1	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000
530	7.9	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000
530	8.1	0.001	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000
510	7.9	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000
510	8.1	0.001	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.001	0.000	0.000	0.000
510	8.3	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000
490	7.9	0.001	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.001	0.000	0.000	0.000
490	8.1	0.002	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.002	0.000	0.000	0.000
490	8.3	0.001	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.001	0.000	0.000	0.000
490	8.5	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000
470	7.9	0.001	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.001	0.000	0.000	0.000

470	8.1	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.003	0.000					
470	8.3	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.001	0.000					
470	8.5	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.001	0.001	0.000					
450	7.9	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.001	0.000					
450	8.1	0.024	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.024	0.000					
450	8.3	0.022	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.007	0.015	0.000					
450	8.5	0.025	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.025	0.000	0.000					
430	7.9	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.002	0.000					
430	8.1	0.005	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.002	0.003	0.000					
430	8.3	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.003	0.000	0.000					
430	8.5	0.007	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.007	0.000	0.000					
410	7.9	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.001	0.002	0.000					
410	8.1	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.007	0.000	0.000					
410	8.3	0.005	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.005	0.000	0.000					
410	8.5	0.016	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.002	0.014	0.000	0.000					
390	7.9	0.009	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.009	0.000	0.000					
390	8.1	0.022	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.022	0.000	0.000					
390	8.3	0.116	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.116	0.000	0.000					
390	8.5	0.139	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.038	0.101	0.000	0.000					
390	8.7	0.511	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.511	0.000	0.000	0.000					
390	9.1	0.296	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.296	0.000	0.000	0.000					
370	7.9	0.013	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.013	0.000	0.000					
370	8.1	0.031	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.031	0.000	0.000					
370	8.3	0.019	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.009	0.011	0.000	0.000					
370	8.5	0.194	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.191	0.002	0.000	0.000					

370	8.7	0.725	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.725	0.000	0.000	0.000					
370	8.9	0.707	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.707	0.000	0.000	0.000					
370	9.1	1.006	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1.006	0.000	0.000	0.000	0.000					
350	7.9	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.003	0.000	0.000					
350	8.1	0.006	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.002	0.004	0.000	0.000					
350	8.3	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.003	0.000	0.000	0.000					
350	8.5	0.014	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.014	0.000	0.000	0.000					
330	7.9	0.004	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.001	0.003	0.000	0.000					
330	8.1	0.009	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.009	0.001	0.000	0.000					
330	8.3	0.005	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.005	0.000	0.000	0.000					
330	8.5	0.073	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.001	0.072	0.000	0.000	0.000					
330	8.7	0.068	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.008	0.060	0.000	0.000	0.000					
330	8.9	0.078	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.078	0.000	0.000	0.000	0.000					
310	7.9	0.012	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.012	0.000	0.000	0.000					
310	8.1	0.029	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.029	0.000	0.000	0.000					
310	8.3	0.017	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.017	0.000	0.000	0.000					
310	8.5	0.111	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.082	0.029	0.000	0.000	0.000					
310	8.7	0.149	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.149	0.000	0.000	0.000	0.000					
310	8.9	0.760	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.760	0.000	0.000	0.000	0.000					
310	9.1	0.873	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.873	0.000	0.000	0.000	0.000					
310	9.3	1.088	0.000	0.000	0.000	0.000	0.000	0.000	1.088
0.000	0.000	0.000	0.000	0.000					

Principal Sources (faults, subduction, random seismicity having > 3% contribution
sub0_ch_bot.in:

Percent Contributed: 2.62

Distance (km): 308.17316

Magnitude: 9.1035251

Epsilon (mean values): 0.54045412

Cascadia Megathrust - whole CSZ Characteristic:

Percent Contributed: 2.62

Distance (km): 308.17316
Magnitude: 9.1035251
Epsilon (mean values): 0.54045412
Azimuth: 285.86185
Latitude: 46.3
Longitude: -123.4132
sub0_ch_mid.in:
Percent Contributed: 2.31
Distance (km): 361.47413
Magnitude: 8.9168421
Epsilon (mean values): 1.0042428
Cascadia Megathrust - whole CSZ Characteristic:
Percent Contributed: 2.31
Distance (km): 361.47413
Magnitude: 8.9168421
Epsilon (mean values): 1.0042428
Azimuth: 283.89391
Latitude: 46.3
Longitude: -124.13677
PSHA Deaggregation. %contributions.
site: Test
longitude: 119.584°W
latitude: 45.612°E
imt: Peak Ground Acceleration
vs30 = 537 m/s (Site class C)
return period: 475 yrs.
#This deaggregation corresponds to: GMM: BC Hydro (2012) : Slab
Summary statistics for PSHA PGA deaggregation, r=distance, ε=epsilon:
Deaggregation targets:
Return period: 475 yrs
Exceedance rate: 0.0021052632 yr⁻¹
PGA ground motion: 0.080453256 g
Recovered targets:
Return period: 482.32606 yrs
Exceedance rate: 0.0020732863 yr⁻¹
Totals:
Binned: 1.28 %
Residual: 0 %
Trace: 0.11 %
Mean (over all sources):
m: 7.08
r: 250.1 km
ε₀: 1.65 σ
Mode (largest m-r bin):
m: 7.11
r: 270.04 km
ε₀: 1.83 σ
Contribution: 0.18 %
Mode (largest m-r-ε₀ bin):
m: 7.12

0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110	5.3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110	5.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110	5.7	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110	5.9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110	6.1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110	6.3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110	6.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110	6.7	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110	6.9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110	7.1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110	7.3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110	7.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110	7.7	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110	7.9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
90	7.3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
90	7.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
90	7.7	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
90	7.9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Principal Sources (faults, subduction, random seismicity having > 3% contribution
PSHA Deaggregation. %contributions.

site: Test

longitude: 119.584°W

latitude: 45.612°E

imt: Peak Ground Acceleration

vs30 = 537 m/s (Site class C)

return period: 475 yrs.

#This deaggregation corresponds to: GMM: Zhao et al. (2006) : Interface

Summary statistics for PSHA PGA deaggregation, r=distance, ε=epsilon:

Deaggregation targets:

Return period: 475 yrs

Exceedance rate: 0.0021052632 yr⁻¹

390	8.3	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.003					
390	8.5	0.006	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.002	0.005					
390	8.7	0.050	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.050	0.000					
390	9.1	0.059	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.059	0.000	0.000					
370	7.9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
370	8.1	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.001					
370	8.3	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.001					
370	8.5	0.020	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.019	0.000					
370	8.7	0.119	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.016	0.104	0.000					
370	8.9	0.146	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.146	0.000	0.000					
370	9.1	0.325	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.325	0.000	0.000					
350	7.9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
350	8.1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
350	8.3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
350	8.5	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.002	0.000					
330	7.9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
330	8.1	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.001	0.000					
330	8.3	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.001	0.000					
330	8.5	0.015	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.014	0.001	0.000					
330	8.7	0.018	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.018	0.000	0.000					
330	8.9	0.029	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.029	0.000	0.000	0.000					
310	7.9	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.001	0.000					
310	8.1	0.004	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.004	0.000					
310	8.3	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.003	0.001	0.000					
310	8.5	0.032	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.032	0.000	0.000					

310	8.7	0.055	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.040	0.015	0.000	0.000					
310	8.9	0.344	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.344	0.000	0.000	0.000					
310	9.1	0.467	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.027	0.440	0.000	0.000	0.000					
310	9.3	0.750	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.750	0.000	0.000	0.000	0.000					

Principal Sources (faults, subduction, random seismicity having > 3% contribution
sub0_ch_bot.in:

Percent Contributed: 1.51
Distance (km): 308.17316
Magnitude: 9.1398931
Epsilon (mean values): 0.91261055

Cascadia Megathrust - whole CSZ Characteristic:

Percent Contributed: 1.51
Distance (km): 308.17316
Magnitude: 9.1398931
Epsilon (mean values): 0.91261055
Azimuth: 285.86185
Latitude: 46.3
Longitude: -123.4132

PSHA Deaggregation. %contributions.

site: Test

longitude: 119.584°W

latitude: 45.612°E

imt: Peak Ground Acceleration

vs30 = 537 m/s (Site class C)

return period: 475 yrs.

#This deaggregation corresponds to: GMM: Zhao et al. (2006) : Slab

Summary statistics for PSHA PGA deaggregation, r=distance, ε=epsilon:

Deaggregation targets:

Return period: 475 yrs
Exceedance rate: 0.0021052632 yr⁻¹
PGA ground motion: 0.080453256 g

Recovered targets:

Return period: 482.32606 yrs
Exceedance rate: 0.0020732863 yr⁻¹

Totals:

Binned: 0.1 %
Residual: 0 %
Trace: 0.09 %

Mean (over all sources):

m: 7.26
r: 225.1 km
ε₀: 1.82 σ

Mode (largest m-r bin):

m: 7.11
r: 229.45 km
ε₀: 2.24 σ

Contribution: 0.02 %
 Mode (largest m-r- ϵ_0 bin):
 m: 7.11
 r: 229.67 km
 ϵ_0 : 2.23 σ
 Contribution: 0.01 %

Discretization:
 r: min = 0.0, max = 1000.0, Δ = 20.0 km
 m: min = 4.4, max = 9.4, Δ = 0.2
 ϵ : min = -3.0, max = 3.0, Δ = 0.5 σ

Epsilon keys:
 ϵ_0 : [- ∞ .. -2.5)
 ϵ_1 : [-2.5 .. -2.0)
 ϵ_2 : [-2.0 .. -1.5)
 ϵ_3 : [-1.5 .. -1.0)
 ϵ_4 : [-1.0 .. -0.5)
 ϵ_5 : [-0.5 .. 0.0)
 ϵ_6 : [0.0 .. 0.5)
 ϵ_7 : [0.5 .. 1.0)
 ϵ_8 : [1.0 .. 1.5)
 ϵ_9 : [1.5 .. 2.0)
 ϵ_{10} : [2.0 .. 2.5)
 ϵ_{11} : [2.5 .. + ∞)

Closest Distance, rRup (km)		Magnitude (Mw)		ALL_ ϵ	$\epsilon=(-\infty, -2.5)$	$\epsilon=[-2.5, -2)$
$\epsilon=[-2, -1.5)$	$\epsilon=[-1.5, -1)$	$\epsilon=[-1, -0.5)$	$\epsilon=[-0.5, 0)$	$\epsilon=[-0.5, 0)$	$\epsilon=[0, 0.5)$	$\epsilon=[0, 0.5)$
$\epsilon=[0.5, 1)$	$\epsilon=[1, 1.5)$	$\epsilon=[1.5, 2)$	$\epsilon=[2, 2.5)$	$\epsilon=[2, 2.5)$	$\epsilon=[2.5, \infty)$	$\epsilon=[2.5, \infty)$
290	7.1	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000
290	7.3	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000
290	7.5	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000
270	7.1	0.002	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.002	0.000	0.000
270	7.3	0.002	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.001	0.001	0.000	0.000
270	7.5	0.002	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.002	0.000	0.000	0.000
270	7.7	0.001	0.000	0.000	0.000	0.000
0.000	0.000	0.001	0.000	0.000	0.000	0.000
270	7.9	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000
250	6.9	0.001	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.001	0.000	0.000
250	7.1	0.009	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.004	0.006	0.000	0.000
250	7.3	0.003	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.002	0.000	0.000	0.000
250	7.5	0.004	0.000	0.000	0.000	0.000
0.000	0.000	0.003	0.001	0.000	0.000	0.000

110	7.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110	7.7	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110	7.9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
90	7.3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
90	7.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
90	7.7	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
90	7.9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Principal Sources (faults, subduction, random seismicity having > 3% contribution
PSHA Deaggregation. %contributions.

site: Test

longitude: 119.584°W

latitude: 45.612°E

imt: Peak Ground Acceleration

vs30 = 537 m/s (Site class C)

return period: 475 yrs.

#This deaggregation corresponds to: Source Type: Grid

Summary statistics for PSHA PGA deaggregation, r=distance, ε=epsilon:

Deaggregation targets:

Return period: 475 yrs

Exceedance rate: 0.0021052632 yr⁻¹

PGA ground motion: 0.080453256 g

Recovered targets:

Return period: 482.32606 yrs

Exceedance rate: 0.0020732863 yr⁻¹

Totals:

Binned: 86.66 %

Residual: 0 %

Trace: 0.4 %

Mean (over all sources):

m: 6.1

r: 34.33 km

ε₀: 0.04 σ

Mode (largest m-r bin):

m: 5.1

r: 12.02 km

ε₀: -0.1 σ

Contribution: 5.23 %

Mode (largest m-r-ε₀ bin):

m: 5.1

r: 14.48 km

ε₀: 0.25 σ

Contribution: 1.78 %

Discretization:

0.012	0.361	0.493	0.174	0.013					
50	5.7	1.238	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.131	0.556	0.468	0.083	0.000					
50	5.9	1.355	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.306	0.754	0.283	0.012	0.000					
50	6.1	1.705	0.000	0.000	0.000	0.000	0.000	0.000	0.050
0.879	0.706	0.069	0.000	0.000					
50	6.3	1.784	0.000	0.000	0.000	0.000	0.000	0.000	0.427
1.080	0.277	0.000	0.000	0.000					
50	6.5	1.645	0.000	0.000	0.000	0.000	0.000	0.000	0.801
0.798	0.046	0.000	0.000	0.000					
50	6.7	1.355	0.000	0.000	0.000	0.000	0.000	0.076	0.831
0.444	0.003	0.000	0.000	0.000					
50	6.9	1.229	0.000	0.000	0.000	0.000	0.000	0.319	0.828
0.082	0.000	0.000	0.000	0.000					
50	7.1	1.106	0.000	0.000	0.000	0.000	0.029	0.611	0.465
0.000	0.000	0.000	0.000	0.000					
50	7.3	0.893	0.000	0.000	0.000	0.000	0.156	0.623	0.115
0.000	0.000	0.000	0.000	0.000					
50	7.5	0.452	0.000	0.000	0.000	0.014	0.167	0.258	0.013
0.000	0.000	0.000	0.000	0.000					
50	7.7	0.052	0.000	0.000	0.000	0.007	0.032	0.013	0.000
0.000	0.000	0.000	0.000	0.000					
50	7.9	0.014	0.000	0.000	0.000	0.004	0.008	0.001	0.000
0.000	0.000	0.000	0.000	0.000					
30	5.1	2.664	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.729	1.152	0.646	0.130	0.007					
30	5.3	3.366	0.000	0.000	0.000	0.000	0.000	0.000	0.386
1.447	1.122	0.376	0.035	0.000					
30	5.5	3.999	0.000	0.000	0.000	0.000	0.000	0.341	1.240
1.558	0.729	0.130	0.000	0.000					
30	5.7	3.770	0.000	0.000	0.000	0.000	0.017	0.666	1.510
1.089	0.487	0.002	0.000	0.000					
30	5.9	3.376	0.000	0.000	0.000	0.000	0.115	0.974	1.307
0.875	0.104	0.000	0.000	0.000					
30	6.1	3.231	0.000	0.000	0.000	0.000	0.381	1.239	1.303
0.308	0.000	0.000	0.000	0.000					
30	6.3	2.974	0.000	0.000	0.000	0.051	0.905	1.185	0.812
0.021	0.000	0.000	0.000	0.000					
30	6.5	2.295	0.000	0.000	0.000	0.162	0.732	1.058	0.343
0.000	0.000	0.000	0.000	0.000					
30	6.7	1.873	0.000	0.000	0.009	0.206	0.720	0.826	0.111
0.000	0.000	0.000	0.000	0.000					
30	6.9	1.605	0.000	0.000	0.044	0.335	0.680	0.545	0.000
0.000	0.000	0.000	0.000	0.000					
30	7.1	1.351	0.000	0.006	0.095	0.458	0.647	0.145	0.000
0.000	0.000	0.000	0.000	0.000					
30	7.3	1.174	0.000	0.016	0.145	0.517	0.480	0.015	0.000
0.000	0.000	0.000	0.000	0.000					
30	7.5	0.559	0.000	0.019	0.114	0.279	0.147	0.000	0.000

0.000	0.000	0.000	0.000	0.000					
30	7.7	0.051	0.000	0.003	0.015	0.026	0.006	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
30	7.9	0.010	0.000	0.001	0.004	0.005	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
10	5.1	5.228	0.000	0.000	0.100	0.493	0.593	1.450	1.784
0.749	0.059	0.000	0.000	0.000					
10	5.3	4.733	0.000	0.073	0.178	0.549	0.976	1.642	1.174
0.142	0.000	0.000	0.000	0.000					
10	5.5	4.014	0.112	0.033	0.391	0.615	1.298	1.207	0.358
0.000	0.000	0.000	0.000	0.000					
10	5.7	3.036	0.077	0.099	0.345	0.619	1.188	0.689	0.018
0.000	0.000	0.000	0.000	0.000					
10	5.9	2.233	0.054	0.199	0.271	0.622	0.876	0.212	0.000
0.000	0.000	0.000	0.000	0.000					
10	6.1	2.317	0.119	0.316	0.490	0.741	0.651	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
10	6.3	1.710	0.158	0.329	0.511	0.563	0.150	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
10	6.5	1.440	0.200	0.301	0.410	0.465	0.065	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
10	6.7	1.155	0.182	0.283	0.328	0.341	0.020	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
10	6.9	0.882	0.181	0.237	0.324	0.140	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
10	7.1	0.657	0.155	0.203	0.267	0.031	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
10	7.3	0.473	0.130	0.160	0.178	0.004	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
10	7.5	0.193	0.063	0.070	0.060	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
10	7.7	0.015	0.006	0.006	0.003	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
10	7.9	0.003	0.001	0.001	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					

Principal Sources (faults, subduction, random seismicity having > 3% contribution

WUSmap_2014_fixSm.ch.in (opt):

Percent Contributed: 11.66

Distance (km): 34.204662

Magnitude: 6.0871774

Epsilon (mean values): 0.050919472

noPuget_2014_fixSm.ch.in (opt):

Percent Contributed: 11.66

Distance (km): 34.198546

Magnitude: 6.0871227

Epsilon (mean values): 0.05082392

WUSmap_2014_fixSm.gr.in (opt):

Percent Contributed: 11.5

Distance (km): 33.699664

Magnitude: 6.0753781

Epsilon (mean values): 0.04065423
noPuget_2014_fixSm.gr.in (opt):
Percent Contributed: 11.5
Distance (km): 33.693488
Magnitude: 6.0753224
Epsilon (mean values): 0.040557594
noPuget_2014_adSm.ch.in (opt):
Percent Contributed: 7.71
Distance (km): 34.10913
Magnitude: 6.0838791
Epsilon (mean values): 0.041153981
WUSmap_2014_adSm.ch.in (opt):
Percent Contributed: 7.7
Distance (km): 34.097315
Magnitude: 6.0836898
Epsilon (mean values): 0.040855432
noPuget_2014_adSm.gr.in (opt):
Percent Contributed: 7.62
Distance (km): 33.678048
Magnitude: 6.0736573
Epsilon (mean values): 0.032279536
WUSmap_2014_adSm.gr.in (opt):
Percent Contributed: 7.61
Distance (km): 33.667282
Magnitude: 6.0734874
Epsilon (mean values): 0.032003813
WUSmap_2014_fixSm_M8.in (opt):
Percent Contributed: 2.85
Distance (km): 37.055363
Magnitude: 6.2098604
Epsilon (mean values): 0.02604556
noPuget_2014_fixSm_M8.in (opt):
Percent Contributed: 2.85
Distance (km): 37.019669
Magnitude: 6.2095186
Epsilon (mean values): 0.025591649
noPuget_2014_adSm_M8.in (opt):
Percent Contributed: 1.89
Distance (km): 37.057976
Magnitude: 6.2073833
Epsilon (mean values): 0.01868423
WUSmap_2014_adSm_M8.in (opt):
Percent Contributed: 1.88
Distance (km): 37.059703
Magnitude: 6.207237
Epsilon (mean values): 0.018577657
PSHA Deaggregation. %contributions.
site: Test
longitude: 119.584°W
latitude: 45.612°E

imt: Peak Ground Acceleration

vs30 = 537 m/s (Site class C)

return period: 475 yrs.

#This deaggregation corresponds to: Source Type: Slab

Summary statistics for PSHA PGA deaggregation, r=distance, ε=epsilon:

Deaggregation targets:

Return period: 475 yrs

Exceedance rate: 0.0021052632 yr⁻¹

PGA ground motion: 0.080453256 g

Recovered targets:

Return period: 482.32606 yrs

Exceedance rate: 0.0020732863 yr⁻¹

Totals:

Binned: 1.38 %

Residual: 0 %

Trace: 0.19 %

Mean (over all sources):

m: 7.1

r: 248.27 km

ε₀: 1.66 σ

Mode (largest m-r bin):

m: 7.11

r: 250.33 km

ε₀: 1.64 σ

Contribution: 0.18 %

Mode (largest m-r-ε₀ bin):

m: 7.12

r: 269.46 km

ε₀: 1.79 σ

Contribution: 0.15 %

Discretization:

r: min = 0.0, max = 1000.0, Δ = 20.0 km

m: min = 4.4, max = 9.4, Δ = 0.2

ε: min = -3.0, max = 3.0, Δ = 0.5 σ

Epsilon keys:

ε0: [-∞ .. -2.5)

ε1: [-2.5 .. -2.0)

ε2: [-2.0 .. -1.5)

ε3: [-1.5 .. -1.0)

ε4: [-1.0 .. -0.5)

ε5: [-0.5 .. 0.0)

ε6: [0.0 .. 0.5)

ε7: [0.5 .. 1.0)

ε8: [1.0 .. 1.5)

ε9: [1.5 .. 2.0)

ε10: [2.0 .. 2.5)

ε11: [2.5 .. +∞)

Closest Distance, rRup (km)

ε=[-2,-1.5) ε=[-1.5,-1)

ε=[0.5,1) ε=[1,1.5)

Magnitude (Mw)

ε=[-1,-0.5)

ε=[1.5,2)

ALL_ε

ε=[-0.5,0)

ε=[2,2.5)

ε=(-∞, -2.5)

ε=[0,0.5)

ε=[2.5,∞)

ε=[-2.5, -2)

290	6.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
290	6.7	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.008					
290	6.9	0.040	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.029	0.011					
290	7.1	0.096	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.043	0.053	0.000					
290	7.3	0.013	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.002	0.011	0.000	0.000					
290	7.5	0.007	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.007	0.000	0.000	0.000					
270	6.5	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.001					
270	6.7	0.019	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.006	0.013					
270	6.9	0.071	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.004	0.065	0.002					
270	7.1	0.181	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.151	0.028	0.002					
270	7.3	0.036	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.021	0.013	0.001	0.001					
270	7.5	0.027	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.003	0.022	0.000	0.002	0.000					
270	7.7	0.005	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.003	0.001	0.001	0.000	0.000					
270	7.9	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.001	0.000	0.000	0.000	0.000					
250	6.3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
250	6.5	0.005	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.005					
250	6.7	0.027	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.022	0.005					
250	6.9	0.075	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.042	0.033	0.001					
250	7.1	0.182	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.046	0.127	0.004	0.006					
250	7.3	0.034	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.002	0.027	0.002	0.002	0.000					
250	7.5	0.027	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.018	0.006	0.003	0.001	0.000					
250	7.7	0.006	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.005	0.001	0.000	0.000	0.000					
250	7.9	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.001
0.005	0.001	0.000	0.000	0.000					
230	6.3	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.001					
230	6.5	0.007	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.003	0.003					

230	6.7	0.024	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.005	0.019	0.000					
230	6.9	0.065	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.058	0.004	0.003					
230	7.1	0.142	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.103	0.024	0.014	0.001					
230	7.3	0.025	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.012	0.009	0.003	0.001	0.000					
230	7.5	0.019	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.015	0.002	0.002	0.000	0.000					
230	7.7	0.005	0.000	0.000	0.000	0.000	0.000	0.000	0.002
0.002	0.001	0.000	0.000	0.000					
230	7.9	0.007	0.000	0.000	0.000	0.000	0.000	0.000	0.005
0.002	0.000	0.000	0.000	0.000					
210	6.1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
210	6.3	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.001					
210	6.5	0.004	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.004	0.000					
210	6.7	0.012	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.008	0.003	0.001					
210	6.9	0.032	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.016	0.012	0.004	0.000					
210	7.1	0.075	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.013	0.050	0.010	0.003	0.000					
210	7.3	0.015	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.011	0.002	0.001	0.000	0.000					
210	7.5	0.012	0.000	0.000	0.000	0.000	0.000	0.000	0.007
0.002	0.003	0.000	0.000	0.000					
210	7.7	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.002
0.001	0.000	0.000	0.000	0.000					
210	7.9	0.004	0.000	0.000	0.000	0.000	0.000	0.001	0.003
0.000	0.000	0.000	0.000	0.000					
190	5.9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
190	6.1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
190	6.3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
190	6.5	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.001	0.001	0.000					
190	6.7	0.004	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.001	0.003	0.001	0.000					
190	6.9	0.009	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.007	0.001	0.000	0.000					
190	7.1	0.017	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.011	0.004	0.002	0.000	0.000					
190	7.3	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.001
0.001	0.001	0.000	0.000	0.000					

110	7.1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110	7.3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110	7.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110	7.7	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110	7.9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
90	7.3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
90	7.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
90	7.7	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
90	7.9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Principal Sources (faults, subduction, random seismicity having > 3% contribution PSHA Deaggregation. %contributions.

site: Test

longitude: 119.584°W

latitude: 45.612°E

imt: Peak Ground Acceleration

vs30 = 537 m/s (Site class C)

return period: 475 yrs.

#This deaggregation corresponds to: Source Type: Interface

Summary statistics for PSHA PGA deaggregation, r=distance, ε=epsilon:

Deaggregation targets:

Return period: 475 yrs

Exceedance rate: 0.0021052632 yr⁻¹

PGA ground motion: 0.080453256 g

Recovered targets:

Return period: 482.32606 yrs

Exceedance rate: 0.0020732863 yr⁻¹

Totals:

Binned: 9.86 %

Residual: 0 %

Trace: 0.16 %

Mean (over all sources):

m: 8.93

r: 338.25 km

ε₀: 1.01 σ

Mode (largest m-r bin):

m: 9.34

r: 308.17 km

ε₀: 0.57 σ

Contribution: 1.95 %

Mode (largest m-r-ε₀ bin):

m: 9.34

0.000	0.009	0.011	0.000	0.001					
370	8.5	0.213	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.191	0.002	0.019	0.000					
370	8.7	0.844	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.725	0.016	0.104	0.000					
370	8.9	0.853	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.707	0.146	0.000	0.000					
370	9.1	1.346	0.000	0.000	0.000	0.000	0.000	0.000	0.000
1.006	0.000	0.325	0.000	0.014					
350	7.9	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.003	0.000	0.000					
350	8.1	0.006	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.002	0.004	0.000	0.000					
350	8.3	0.004	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.003	0.000	0.000	0.000					
350	8.5	0.016	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.014	0.000	0.002	0.000					
330	7.9	0.005	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.001	0.003	0.000	0.000					
330	8.1	0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.009	0.001	0.001	0.000					
330	8.3	0.006	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.005	0.000	0.001	0.000					
330	8.5	0.088	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.001	0.072	0.014	0.001	0.000					
330	8.7	0.086	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.008	0.060	0.018	0.000	0.000					
330	8.9	0.108	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.078	0.029	0.000	0.000	0.001					
310	7.9	0.014	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.012	0.000	0.001	0.000					
310	8.1	0.033	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.029	0.000	0.004	0.000					
310	8.3	0.020	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.017	0.003	0.001	0.000					
310	8.5	0.143	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.082	0.029	0.032	0.000	0.000					
310	8.7	0.205	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.149	0.040	0.015	0.000	0.002					
310	8.9	1.120	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.760	0.344	0.000	0.001	0.015					
310	9.1	1.373	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.901	0.440	0.000	0.032	0.000					
310	9.3	1.949	0.000	0.000	0.000	0.000	0.000	0.000	1.088
0.750	0.000	0.111	0.000	0.000					

Principal Sources (faults, subduction, random seismicity having > 3% contribution
sub0_ch_bot.in:

Percent Contributed: 4.29

Distance (km): 308.17316

Magnitude: 9.1209041

Epsilon (mean values): 0.72249327
Cascadia Megathrust - whole CSZ Characteristic:
Percent Contributed: 4.29
Distance (km): 308.17316
Magnitude: 9.1209041
Epsilon (mean values): 0.72249327
Azimuth: 285.86185
Latitude: 46.3
Longitude: -123.4132

sub0_ch_mid.in:
Percent Contributed: 2.89
Distance (km): 361.47413
Magnitude: 8.9281769
Epsilon (mean values): 1.1484289
Cascadia Megathrust - whole CSZ Characteristic:
Percent Contributed: 2.89
Distance (km): 361.47413
Magnitude: 8.9281769
Epsilon (mean values): 1.1484289
Azimuth: 283.89391
Latitude: 46.3
Longitude: -124.13677

PSHA Deaggregation. %contributions.

site: Test

longitude: 119.584°W

latitude: 45.612°E

imt: Peak Ground Acceleration

vs30 = 537 m/s (Site class C)

return period: 475 yrs.

#This deaggregation corresponds to: Source Type: Fault

Summary statistics for PSHA PGA deaggregation, r=distance, ϵ =epsilon:

Deaggregation targets:

Return period: 475 yrs

Exceedance rate: 0.0021052632 yr⁻¹

PGA ground motion: 0.080453256 g

Recovered targets:

Return period: 482.32606 yrs

Exceedance rate: 0.0020732863 yr⁻¹

Totals:

Binned: 2.11 %

Residual: 0 %

Trace: 0.06 %

Mean (over all sources):

m: 7.02

r: 72.74 km

ϵ_0 : 0.68 σ

Mode (largest m-r bin):

m: 7.1

r: 62.35 km

ϵ_0 : 0.37 σ

150	6.7	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
150	6.9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
150	7.1	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.002					
150	7.3	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.001	0.001					
150	7.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
130	6.5	0.005	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.001	0.004					
130	6.7	0.018	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.015	0.003					
130	6.9	0.030	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.008	0.021	0.000					
130	7.1	0.034	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.002	0.029	0.003	0.000					
130	7.3	0.017	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.007	0.010	0.000	0.000					
130	7.5	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.003	0.000	0.000	0.000					
110	6.5	0.004	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.004	0.000					
110	6.7	0.009	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.005	0.004	0.000					
110	6.9	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.006	0.002	0.000					
110	7.1	0.034	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.007	0.027	0.000	0.000					
110	7.3	0.080	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.056	0.025	0.000	0.000					
110	7.5	0.058	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.023	0.035	0.000	0.000	0.000					
110	7.7	0.009	0.000	0.000	0.000	0.000	0.000	0.000	0.001
0.005	0.003	0.000	0.000	0.000					
90	6.5	0.014	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.001	0.013	0.001	0.000					
90	6.7	0.043	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.020	0.023	0.000	0.000					
90	6.9	0.074	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.068	0.005	0.000	0.000					
90	7.1	0.081	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.045	0.036	0.000	0.000	0.000					
90	7.3	0.040	0.000	0.000	0.000	0.000	0.000	0.000	0.004
0.036	0.000	0.000	0.000	0.000					
90	7.5	0.006	0.000	0.000	0.000	0.000	0.000	0.000	0.002
0.003	0.000	0.000	0.000	0.000					
70	6.5	0.098	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.057	0.040	0.001	0.000	0.000					

70	6.7	0.191	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.169	0.023	0.000	0.000	0.000					
70	6.9	0.094	0.000	0.000	0.000	0.000	0.000	0.000	0.024
0.070	0.000	0.000	0.000	0.000					
70	7.1	0.199	0.000	0.000	0.000	0.000	0.000	0.000	0.172
0.027	0.000	0.000	0.000	0.000					
70	7.3	0.193	0.000	0.000	0.000	0.000	0.000	0.051	0.142
0.000	0.000	0.000	0.000	0.000					
70	7.5	0.101	0.000	0.000	0.000	0.000	0.001	0.074	0.026
0.000	0.000	0.000	0.000	0.000					
70	7.7	0.033	0.000	0.000	0.000	0.000	0.010	0.023	0.000
0.000	0.000	0.000	0.000	0.000					
70	7.9	0.002	0.000	0.000	0.000	0.000	0.001	0.002	0.000
0.000	0.000	0.000	0.000	0.000					
50	6.5	0.079	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.068	0.011	0.000	0.000	0.000					
50	6.7	0.172	0.000	0.000	0.000	0.000	0.000	0.000	0.001
0.171	0.000	0.000	0.000	0.000					
50	6.9	0.173	0.000	0.000	0.000	0.000	0.000	0.000	0.136
0.036	0.000	0.000	0.000	0.000					
50	7.1	0.140	0.000	0.000	0.000	0.000	0.000	0.008	0.132
0.000	0.000	0.000	0.000	0.000					
50	7.3	0.056	0.000	0.000	0.000	0.000	0.000	0.026	0.030
0.000	0.000	0.000	0.000	0.000					
50	7.5	0.007	0.000	0.000	0.000	0.000	0.001	0.007	0.000
0.000	0.000	0.000	0.000	0.000					

Principal Sources (faults, subduction, random seismicity having > 3% contribution

Attachment H-3. Probabilistic Seismic Hazard Deaggregation at 2,475-year Intervals

*** Deaggregation of Seismic Hazard at One Period of Spectral Acceleration ***

*** Data from Dynamic: Conterminous U.S. 2014 (update) (4.2.0) ****

PSHA Deaggregation. %contributions.

site: Test

longitude: 119.584°W

latitude: 45.612°E

imt: Peak Ground Acceleration

vs30 = 1150 m/s (Site class B)

return period: 2475 yrs.

#This deaggregation corresponds to: Total

Summary statistics for PSHA PGA deaggregation, r=distance, ϵ =epsilon:

Deaggregation targets:

Return period: 2475 yrs

Exceedance rate: 0.0004040404 yr⁻¹

PGA ground motion: 0.1440636 g

Recovered targets:

Return period: 2539.1415 yrs

Exceedance rate: 0.0003938339 yr⁻¹

Totals:

Binned: 100 %

Residual: 0 %

Trace: 0.43 %

Mean (over all sources):

m: 6.34

r: 36.27 km

ϵ_0 : 0.52 σ

Mode (largest m-r bin):

m: 5.5

r: 11.12 km

ϵ_0 : 0.37 σ

Contribution: 7.32 %

Mode (largest m-r- ϵ_0 bin):

m: 5.3

r: 11.14 km

ϵ_0 : 0.78 σ

Contribution: 2.04 %

Discretization:

r: min = 0.0, max = 1000.0, Δ = 20.0 km

m: min = 4.4, max = 9.4, Δ = 0.2

ϵ : min = -3.0, max = 3.0, Δ = 0.5 σ

Epsilon keys:

ϵ_0 : [-∞ .. -2.5)

ϵ_1 : [-2.5 .. -2.0)

ϵ_2 : [-2.0 .. -1.5)

ϵ_3 : [-1.5 .. -1.0)

ϵ_4 : [-1.0 .. -0.5)

ϵ_5 : [-0.5 .. 0.0)

ϵ_6 : [0.0 .. 0.5)

ϵ_7 : [0.5 .. 1.0)

ϵ_8 : [1.0 .. 1.5)

ϵ_9 : [1.5 .. 2.0)
 ϵ_{10} : [2.0 .. 2.5)
 ϵ_{11} : [2.5 .. $+\infty$)

Closest Distance, rRup (km)				Magnitude (Mw)		ALL_ε	$\epsilon = (-\infty, -2.5)$	$\epsilon = [-2.5, -2)$	
$\epsilon = [-2, -1.5)$	$\epsilon = [-1.5, -1)$	$\epsilon = [-1, -0.5)$	$\epsilon = [0.5, 1)$	$\epsilon = [1, 1.5)$	$\epsilon = [1.5, 2)$	$\epsilon = [-0.5, 0)$	$\epsilon = [0, 0.5)$	$\epsilon = [0.5, 1)$	$\epsilon = [1, 1.5)$
450	8.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
430	8.3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
430	8.5	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000
410	8.1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
410	8.3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
410	8.5	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.003	0.000	0.000	0.000	0.000	0.000
390	7.9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
390	8.1	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.002	0.000	0.000	0.000	0.000	0.000
390	8.3	0.017	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.017	0.000	0.000	0.000	0.000	0.000
390	8.5	0.028	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.028	0.000	0.000	0.000	0.000	0.000
390	8.7	0.170	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.154	0.016	0.000	0.000	0.000	0.000	0.000
390	9.1	0.146	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.146	0.000	0.000	0.000	0.000	0.000	0.000
370	7.9	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000
370	8.1	0.005	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.005	0.000	0.000	0.000	0.000	0.000
370	8.3	0.004	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.004	0.000	0.000	0.000	0.000	0.000
370	8.5	0.063	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.039	0.024	0.000	0.000	0.000	0.000	0.000
370	8.7	0.303	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.303	0.000	0.000	0.000	0.000	0.000	0.000
370	8.9	0.336	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.336	0.000	0.000	0.000	0.000	0.000	0.000
370	9.1	0.703	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.628	0.000	0.075	0.000	0.000	0.000	0.000	0.000
350	7.9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
350	8.1	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000
350	8.3	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000

350	8.5	0.005	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.005	0.000					
330	7.9	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.001					
330	8.1	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.001	0.002					
330	8.3	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.002	0.000					
330	8.5	0.033	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.033	0.000					
330	8.7	0.037	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.035	0.002					
330	8.9	0.058	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.050	0.000	0.008					
310	7.9	0.004	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.004					
310	8.1	0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.010	0.000					
310	8.3	0.007	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.007	0.000					
310	8.5	0.063	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.059	0.004					
310	8.7	0.107	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.067	0.030	0.010					
310	8.9	0.668	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.539	0.129	0.000					
310	9.1	0.927	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.701	0.226	0.000					
310	9.3	1.647	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	1.106	0.541	0.000	0.000					
290	7.1	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.001					
290	7.3	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.002					
290	7.5	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.002	0.000					
270	7.1	0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.010					
270	7.3	0.009	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.004	0.005					
270	7.5	0.011	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.011	0.000					
270	7.7	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.001	0.001	0.000					
270	7.9	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.001	0.000	0.000					
250	6.9	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.001					
250	7.1	0.032	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.004	0.028					

250	7.3	0.012	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.011	0.001					
250	7.5	0.014	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.006	0.008	0.000					
250	7.7	0.004	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.003	0.000	0.000					
250	7.9	0.006	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.004	0.001	0.000					
230	6.9	0.006	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.006					
230	7.1	0.040	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.026	0.014					
230	7.3	0.012	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.004	0.008	0.000					
230	7.5	0.012	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.011	0.001	0.001					
230	7.7	0.004	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.001	0.002	0.001	0.000					
230	7.9	0.006	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.003	0.003	0.000	0.000					
210	6.7	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
210	6.9	0.007	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.001	0.006					
210	7.1	0.029	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.001	0.028	0.000					
210	7.3	0.009	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.008	0.001	0.000					
210	7.5	0.009	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.003	0.005	0.001	0.000					
210	7.7	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.002	0.001	0.000	0.000					
210	7.9	0.005	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.004	0.001	0.000	0.000					
190	6.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
190	6.7	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.001					
190	6.9	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.002	0.000					
190	7.1	0.009	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.006	0.002	0.001					
190	7.3	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.001	0.001	0.000	0.000					
190	7.5	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.002	0.000	0.000	0.000					
190	7.7	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.001	0.000	0.000	0.000					
190	7.9	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.002	0.001	0.000	0.000	0.000					

130	7.5	0.004	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.004					
130	7.7	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.001	0.001					
130	7.9	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.001	0.000					
110	5.9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
110	6.1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
110	6.3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
110	6.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
110	6.7	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
110	6.9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
110	7.1	0.004	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.004					
110	7.3	0.023	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.003	0.020					
110	7.5	0.031	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.017	0.014					
110	7.7	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.002	0.006	0.001					
110	7.9	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.002	0.001	0.000					
90	6.3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
90	6.5	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.002					
90	6.7	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.008					
90	6.9	0.030	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.006	0.025					
90	7.1	0.070	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.038	0.032					
90	7.3	0.114	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.005	0.098	0.011					
90	7.5	0.081	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.033	0.047	0.001					
90	7.7	0.016	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.001	0.013	0.002	0.000					
90	7.9	0.006	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.003	0.003	0.000	0.000					
70	6.1	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.003					
70	6.3	0.042	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.006	0.036					

70	6.5	0.103	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.056	0.047					
70	6.7	0.149	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.112	0.037					
70	6.9	0.197	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.031	0.149	0.017					
70	7.1	0.313	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.165	0.145	0.002					
70	7.3	0.443	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.050	0.350	0.043	0.000					
70	7.5	0.279	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.117	0.156	0.007	0.000					
70	7.7	0.065	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.004	0.055	0.007	0.000	0.000					
70	7.9	0.014	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.004	0.009	0.000	0.000	0.000					
50	5.1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
50	5.3	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.002					
50	5.5	0.018	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.018					
50	5.7	0.053	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.005	0.048					
50	5.9	0.115	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.046	0.069					
50	6.1	0.298	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.012	0.215	0.072					
50	6.3	0.501	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.202	0.267	0.031					
50	6.5	0.626	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.039	0.364	0.209	0.014					
50	6.7	0.626	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.078	0.384	0.161	0.004					
50	6.9	0.736	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.228	0.442	0.066	0.000					
50	7.1	0.845	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.007	0.496	0.339	0.004	0.000					
50	7.3	0.843	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.165	0.579	0.099	0.000	0.000					
50	7.5	0.494	0.000	0.000	0.000	0.000	0.000	0.000	0.001
0.219	0.262	0.013	0.000	0.000					
50	7.7	0.073	0.000	0.000	0.000	0.000	0.000	0.000	0.007
0.051	0.015	0.000	0.000	0.000					
50	7.9	0.023	0.000	0.000	0.000	0.000	0.000	0.000	0.007
0.014	0.001	0.000	0.000	0.000					
30	5.1	0.643	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.194	0.315	0.134					
30	5.3	0.974	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.384	0.476	0.114					

30	5.5	1.518	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.172	0.873	0.389	0.084					
30	5.7	1.790	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.566	0.837	0.349	0.037					
30	5.9	1.976	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.044	0.969	0.671	0.282	0.009					
30	6.1	2.480	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.552	1.119	0.713	0.095	0.000					
30	6.3	2.979	0.000	0.000	0.000	0.000	0.000	0.000	0.227
1.232	1.029	0.474	0.017	0.000					
30	6.5	2.603	0.000	0.000	0.000	0.000	0.000	0.000	0.446
1.029	0.921	0.204	0.002	0.000					
30	6.7	2.312	0.000	0.000	0.000	0.000	0.000	0.022	0.444
0.985	0.743	0.119	0.000	0.000					
30	6.9	2.372	0.000	0.000	0.000	0.000	0.000	0.099	0.671
1.051	0.545	0.006	0.000	0.000					
30	7.1	2.410	0.000	0.000	0.000	0.000	0.000	0.232	0.982
0.996	0.200	0.000	0.000	0.000					
30	7.3	2.434	0.000	0.000	0.000	0.000	0.024	0.496	1.078
0.800	0.036	0.000	0.000	0.000					
30	7.5	1.281	0.000	0.000	0.000	0.000	0.035	0.323	0.644
0.278	0.000	0.000	0.000	0.000					
30	7.7	0.130	0.000	0.000	0.000	0.000	0.008	0.044	0.066
0.012	0.000	0.000	0.000	0.000					
30	7.9	0.029	0.000	0.000	0.000	0.000	0.003	0.013	0.012
0.000	0.000	0.000	0.000	0.000					
10	5.1	6.811	0.000	0.000	0.000	0.000	0.000	0.977	1.438
1.532	1.854	0.845	0.166	0.000					
10	5.3	7.168	0.000	0.000	0.000	0.000	0.284	1.481	1.177
2.042	1.651	0.528	0.005	0.000					
10	5.5	7.315	0.000	0.000	0.000	0.231	0.464	1.372	1.838
2.027	1.302	0.081	0.000	0.000					
10	5.7	6.215	0.000	0.000	0.000	0.355	0.605	0.884	1.844
1.946	0.580	0.000	0.000	0.000					
10	5.9	5.093	0.000	0.000	0.000	0.358	0.614	0.794	1.710
1.495	0.123	0.000	0.000	0.000					
10	6.1	6.288	0.000	0.000	0.000	0.536	1.071	1.937	1.746
0.998	0.000	0.000	0.000	0.000					
10	6.3	5.302	0.000	0.000	0.104	0.692	1.323	1.597	1.256
0.330	0.000	0.000	0.000	0.000					
10	6.5	4.673	0.000	0.028	0.215	0.688	1.175	1.402	0.935
0.230	0.000	0.000	0.000	0.000					
10	6.7	3.903	0.000	0.073	0.216	0.635	1.008	1.102	0.790
0.079	0.000	0.000	0.000	0.000					
10	6.9	3.185	0.000	0.059	0.171	0.560	0.938	1.046	0.411
0.000	0.000	0.000	0.000	0.000					
10	7.1	2.492	0.000	0.051	0.165	0.440	0.837	0.873	0.126
0.000	0.000	0.000	0.000	0.000					
10	7.3	1.865	0.000	0.043	0.127	0.401	0.693	0.566	0.035
0.000	0.000	0.000	0.000	0.000					

10	7.5	0.785	0.000	0.018	0.063	0.195	0.310	0.194	0.005
0.000	0.000	0.000	0.000	0.000					
10	7.7	0.062	0.000	0.002	0.007	0.017	0.027	0.009	0.000
0.000	0.000	0.000	0.000	0.000					
10	7.9	0.012	0.000	0.000	0.002	0.004	0.005	0.001	0.000
0.000	0.000	0.000	0.000	0.000					

Principal Sources (faults, subduction, random seismicity having > 3% contribution

WUSmap_2014_fixSm.ch.in (opt):

Percent Contributed: 12.49

Distance (km): 18.783373

Magnitude: 6.1697856

Epsilon (mean values): 0.43852899

PointSourceFinite: -119.584, 45.697:

Percent Contributed: 1.5

Distance (km): 10.261935

Magnitude: 5.833417

Epsilon (mean values): 0.057299907

Azimuth: 0

Latitude: 45.697435

Longitude: -119.584

PointSourceFinite: -119.584, 45.625:

Percent Contributed: 1.36

Distance (km): 5.2815137

Magnitude: 5.6352474

Epsilon (mean values): -0.59889577

Azimuth: 0

Latitude: 45.62549

Longitude: -119.584

noPuget_2014_fixSm.ch.in (opt):

Percent Contributed: 12.49

Distance (km): 18.783366

Magnitude: 6.1697855

Epsilon (mean values): 0.43852881

PointSourceFinite: -119.584, 45.697:

Percent Contributed: 1.5

Distance (km): 10.261935

Magnitude: 5.833417

Epsilon (mean values): 0.057299907

Azimuth: 0

Latitude: 45.697435

Longitude: -119.584

PointSourceFinite: -119.584, 45.625:

Percent Contributed: 1.36

Distance (km): 5.2815137

Magnitude: 5.6352474

Epsilon (mean values): -0.59889577

Azimuth: 0

Latitude: 45.62549

Longitude: -119.584

WUSmap_2014_fixSm.gr.in (opt):

Percent Contributed: 12.44
Distance (km): 18.629936
Magnitude: 6.1666734
Epsilon (mean values): 0.43297471
PointSourceFinite: -119.584, 45.697:
Percent Contributed: 1.5
Distance (km): 10.261935
Magnitude: 5.833417
Epsilon (mean values): 0.057299907
Azimuth: 0
Latitude: 45.697435
Longitude: -119.584
PointSourceFinite: -119.584, 45.625:
Percent Contributed: 1.36
Distance (km): 5.2815137
Magnitude: 5.6352474
Epsilon (mean values): -0.59889577
Azimuth: 0
Latitude: 45.62549
Longitude: -119.584
noPuget_2014_fixSm.gr.in (opt):
Percent Contributed: 12.44
Distance (km): 18.629929
Magnitude: 6.1666733
Epsilon (mean values): 0.43297453
PointSourceFinite: -119.584, 45.697:
Percent Contributed: 1.5
Distance (km): 10.261935
Magnitude: 5.833417
Epsilon (mean values): 0.057299907
Azimuth: 0
Latitude: 45.697435
Longitude: -119.584
PointSourceFinite: -119.584, 45.625:
Percent Contributed: 1.36
Distance (km): 5.2815137
Magnitude: 5.6352474
Epsilon (mean values): -0.59889577
Azimuth: 0
Latitude: 45.62549
Longitude: -119.584
noPuget_2014_adSm.ch.in (opt):
Percent Contributed: 8.36
Distance (km): 18.577773
Magnitude: 6.1619471
Epsilon (mean values): 0.42771352
WUSmap_2014_adSm.ch.in (opt):
Percent Contributed: 8.35
Distance (km): 18.575292
Magnitude: 6.1618805

Epsilon (mean values): 0.4276198
noPuget_2014_adSm.gr.in (opt):
Percent Contributed: 8.33
Distance (km): 18.444252
Magnitude: 6.1592088
Epsilon (mean values): 0.42282912
WUSmap_2014_adSm.gr.in (opt):
Percent Contributed: 8.32
Distance (km): 18.441998
Magnitude: 6.1591466
Epsilon (mean values): 0.42274378
sub0_ch_bot.in:
Percent Contributed: 3.14
Distance (km): 308.17316
Magnitude: 9.1513388
Epsilon (mean values): 1.7266525
Cascadia Megathrust - whole CSZ Characteristic:
Percent Contributed: 3.14
Distance (km): 308.17316
Magnitude: 9.1513388
Epsilon (mean values): 1.7266525
Azimuth: 285.86185
Latitude: 46.3
Longitude: -123.4132
WUSmap_2014_fixSm_M8.in (opt):
Percent Contributed: 3.09
Distance (km): 20.479972
Magnitude: 6.2986007
Epsilon (mean values): 0.42594915
noPuget_2014_fixSm_M8.in (opt):
Percent Contributed: 3.09
Distance (km): 20.479622
Magnitude: 6.2985962
Epsilon (mean values): 0.42594316
noPuget_2014_adSm_M8.in (opt):
Percent Contributed: 2.06
Distance (km): 20.26648
Magnitude: 6.2891393
Epsilon (mean values): 0.41580273
WUSmap_2014_adSm_M8.in (opt):
Percent Contributed: 2.06
Distance (km): 20.261766
Magnitude: 6.2890104
Epsilon (mean values): 0.41566764
sub0_ch_mid.in:
Percent Contributed: 1.29
Distance (km): 361.47413
Magnitude: 8.9587642
Epsilon (mean values): 2.1311959
Cascadia Megathrust - whole CSZ Characteristic:

Percent Contributed: 1.29
Distance (km): 361.47413
Magnitude: 8.9587642
Epsilon (mean values): 2.1311959
Azimuth: 283.89391
Latitude: 46.3
Longitude: -124.13677

PSHA Deaggregation. %contributions.
site: Test

longitude: 119.584°W
latitude: 45.612°E
imt: Peak Ground Acceleration
vs30 = 1150 m/s (Site class B)
return period: 2475 yrs.

#This deaggregation corresponds to: GMM: Abrahamson, Silva & Kamai (2014)
Summary statistics for PSHA PGA deaggregation, r=distance, ε=epsilon:

Deaggregation targets:

Return period: 2475 yrs
Exceedance rate: 0.0004040404 yr⁻¹
PGA ground motion: 0.1440636 g

Recovered targets:

Return period: 2539.1415 yrs
Exceedance rate: 0.0003938339 yr⁻¹

Totals:

Binned: 25.31 %
Residual: 0 %
Trace: 0.16 %

Mean (over all sources):

m: 6.1
r: 19.58 km
ε₀: 0.58 σ

Mode (largest m-r bin):

m: 5.1
r: 10.59 km
ε₀: 0.68 σ
Contribution: 2.6 %

Mode (largest m-r-ε₀ bin):

m: 5.1
r: 14.61 km
ε₀: 1.24 σ
Contribution: 0.75 %

Discretization:

r: min = 0.0, max = 1000.0, Δ = 20.0 km
m: min = 4.4, max = 9.4, Δ = 0.2
ε: min = -3.0, max = 3.0, Δ = 0.5 σ

Epsilon keys:

ε₀: [-∞ .. -2.5)
ε₁: [-2.5 .. -2.0)
ε₂: [-2.0 .. -1.5)
ε₃: [-1.5 .. -1.0)

ε4: [-1.0 .. -0.5)
 ε5: [-0.5 .. 0.0)
 ε6: [0.0 .. 0.5)
 ε7: [0.5 .. 1.0)
 ε8: [1.0 .. 1.5)
 ε9: [1.5 .. 2.0)
 ε10: [2.0 .. 2.5)
 ε11: [2.5 .. +∞)

Closest Distance, rRup (km)		Magnitude (Mw)		ALL_ε	ε=(-∞, -2.5)	ε=[-2.5, -2)
ε=[-2, -1.5)	ε=[-1.5, -1)	ε=[-1, -0.5)	ε=[-0.5, 0)	ε=[-0.5, 0)	ε=[0, 0.5)	ε=[0.5, 1)
ε=[0.5, 1)	ε=[1, 1.5)	ε=[1.5, 2)	ε=[2, 2.5)	ε=[2, 2.5)	ε=[2.5, ∞)	
190	7.9	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000
170	7.7	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000
170	7.9	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000
150	7.5	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000
150	7.7	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000
150	7.9	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000
130	7.3	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000
130	7.5	0.002	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.002	0.000	0.000
130	7.7	0.001	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000
130	7.9	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000
110	7.1	0.001	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.001	0.000	0.000
110	7.3	0.008	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.001	0.007	0.000	0.000
110	7.5	0.010	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.006	0.004	0.000	0.000
110	7.7	0.002	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.002	0.000	0.000	0.000
110	7.9	0.001	0.000	0.000	0.000	0.000
0.000	0.000	0.001	0.000	0.000	0.000	0.000
90	6.5	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000
90	6.7	0.002	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.002	0.000	0.000
90	6.9	0.009	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.009	0.000	0.000
90	7.1	0.020	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.011	0.009	0.000	0.000
90	7.3	0.033	0.000	0.000	0.000	0.000

0.041	0.164	0.017	0.000	0.000					
50	7.5	0.131	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.062	0.069	0.000	0.000	0.000					
50	7.7	0.019	0.000	0.000	0.000	0.000	0.000	0.000	0.001
0.016	0.002	0.000	0.000	0.000					
50	7.9	0.006	0.000	0.000	0.000	0.000	0.000	0.000	0.002
0.004	0.000	0.000	0.000	0.000					
30	5.1	0.442	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.194	0.198	0.050					
30	5.3	0.481	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.267	0.168	0.046					
30	5.5	0.513	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.069	0.313	0.112	0.020					
30	5.7	0.545	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.186	0.243	0.116	0.001					
30	5.9	0.572	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.304	0.196	0.071	0.000					
30	6.1	0.679	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.137	0.327	0.206	0.009	0.000					
30	6.3	0.791	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.368	0.309	0.114	0.000	0.000					
30	6.5	0.634	0.000	0.000	0.000	0.000	0.000	0.000	0.041
0.274	0.278	0.041	0.000	0.000					
30	6.7	0.536	0.000	0.000	0.000	0.000	0.000	0.000	0.050
0.241	0.223	0.022	0.000	0.000					
30	6.9	0.559	0.000	0.000	0.000	0.000	0.000	0.000	0.133
0.276	0.151	0.000	0.000	0.000					
30	7.1	0.569	0.000	0.000	0.000	0.000	0.000	0.002	0.240
0.278	0.048	0.000	0.000	0.000					
30	7.3	0.580	0.000	0.000	0.000	0.000	0.000	0.051	0.307
0.221	0.000	0.000	0.000	0.000					
30	7.5	0.308	0.000	0.000	0.000	0.000	0.000	0.058	0.177
0.073	0.000	0.000	0.000	0.000					
30	7.7	0.032	0.000	0.000	0.000	0.000	0.000	0.010	0.020
0.001	0.000	0.000	0.000	0.000					
30	7.9	0.007	0.000	0.000	0.000	0.000	0.000	0.003	0.004
0.000	0.000	0.000	0.000	0.000					
10	5.1	2.598	0.000	0.000	0.000	0.000	0.000	0.679	0.325
0.684	0.746	0.164	0.000	0.000					
10	5.3	2.165	0.000	0.000	0.000	0.000	0.000	0.513	0.311
0.740	0.562	0.039	0.000	0.000					
10	5.5	1.799	0.000	0.000	0.000	0.000	0.000	0.385	0.516
0.525	0.373	0.000	0.000	0.000					
10	5.7	1.485	0.000	0.000	0.000	0.000	0.240	0.189	0.412
0.504	0.140	0.000	0.000	0.000					
10	5.9	1.215	0.000	0.000	0.000	0.000	0.218	0.107	0.471
0.397	0.021	0.000	0.000	0.000					
10	6.1	1.482	0.000	0.000	0.000	0.056	0.223	0.459	0.454
0.291	0.000	0.000	0.000	0.000					
10	6.3	1.255	0.000	0.000	0.000	0.118	0.275	0.408	0.377

0.078	0.000	0.000	0.000	0.000					
10	6.5	1.089	0.000	0.000	0.027	0.110	0.241	0.355	0.307
0.050	0.000	0.000	0.000	0.000					
10	6.7	0.910	0.000	0.000	0.041	0.092	0.233	0.271	0.255
0.018	0.000	0.000	0.000	0.000					
10	6.9	0.752	0.000	0.000	0.029	0.100	0.206	0.264	0.153
0.000	0.000	0.000	0.000	0.000					
10	7.1	0.591	0.000	0.000	0.030	0.066	0.183	0.284	0.028
0.000	0.000	0.000	0.000	0.000					
10	7.3	0.445	0.000	0.000	0.021	0.065	0.158	0.198	0.003
0.000	0.000	0.000	0.000	0.000					
10	7.5	0.188	0.000	0.000	0.008	0.035	0.071	0.074	0.000
0.000	0.000	0.000	0.000	0.000					
10	7.7	0.015	0.000	0.000	0.001	0.004	0.008	0.003	0.000
0.000	0.000	0.000	0.000	0.000					
10	7.9	0.003	0.000	0.000	0.000	0.001	0.002	0.000	0.000
0.000	0.000	0.000	0.000	0.000					

Principal Sources (faults, subduction, random seismicity having > 3% contribution

WUSmap_2014_fixSm.ch.in (opt):

Percent Contributed: 3.35

Distance (km): 19.264628

Magnitude: 6.0857255

Epsilon (mean values): 0.58169943

noPuget_2014_fixSm.ch.in (opt):

Percent Contributed: 3.35

Distance (km): 19.264619

Magnitude: 6.0857254

Epsilon (mean values): 0.58169922

WUSmap_2014_fixSm.gr.in (opt):

Percent Contributed: 3.34

Distance (km): 19.110432

Magnitude: 6.0822196

Epsilon (mean values): 0.57666505

noPuget_2014_fixSm.gr.in (opt):

Percent Contributed: 3.34

Distance (km): 19.110423

Magnitude: 6.0822195

Epsilon (mean values): 0.57666485

noPuget_2014_adSm.ch.in (opt):

Percent Contributed: 2.24

Distance (km): 19.05644

Magnitude: 6.0781316

Epsilon (mean values): 0.5709056

WUSmap_2014_adSm.ch.in (opt):

Percent Contributed: 2.24

Distance (km): 19.053843

Magnitude: 6.0780609

Epsilon (mean values): 0.57081426

noPuget_2014_adSm.gr.in (opt):

Percent Contributed: 2.24

Distance (km): 18.922415
Magnitude: 6.0750514
Epsilon (mean values): 0.56648126
WUSmap_2014_adSm.gr.in (opt):
Percent Contributed: 2.23
Distance (km): 18.920047
Magnitude: 6.0749856
Epsilon (mean values): 0.56639756
PSHA Deaggregation. %contributions.
site: Test
longitude: 119.584°W
latitude: 45.612°E
imt: Peak Ground Acceleration
vs30 = 1150 m/s (Site class B)
return period: 2475 yrs.
#This deaggregation corresponds to: GMM: Boore, Stewart, Seyhan & Atkinson (2014)
Summary statistics for PSHA PGA deaggregation, r=distance, ϵ =epsilon:
Deaggregation targets:
Return period: 2475 yrs
Exceedance rate: 0.0004040404 yr⁻¹
PGA ground motion: 0.1440636 g
Recovered targets:
Return period: 2539.1415 yrs
Exceedance rate: 0.0003938339 yr⁻¹
Totals:
Binned: 22.35 %
Residual: 0 %
Trace: 0.13 %
Mean (over all sources):
m: 6.13
r: 18.01 km
 ϵ_0 : 0.45 σ
Mode (largest m-r bin):
m: 5.5
r: 11.15 km
 ϵ_0 : 0.17 σ
Contribution: 2.2 %
Mode (largest m-r- ϵ_0 bin):
m: 5.51
r: 11.34 km
 ϵ_0 : 0.32 σ
Contribution: 0.56 %
Discretization:
r: min = 0.0, max = 1000.0, Δ = 20.0 km
m: min = 4.4, max = 9.4, Δ = 0.2
 ϵ : min = -3.0, max = 3.0, Δ = 0.5 σ
Epsilon keys:
 ϵ_0 : [- ∞ .. -2.5)
 ϵ_1 : [-2.5 .. -2.0)
 ϵ_2 : [-2.0 .. -1.5)

ϵ_3 : [-1.5 .. -1.0)
 ϵ_4 : [-1.0 .. -0.5)
 ϵ_5 : [-0.5 .. 0.0)
 ϵ_6 : [0.0 .. 0.5)
 ϵ_7 : [0.5 .. 1.0)
 ϵ_8 : [1.0 .. 1.5)
 ϵ_9 : [1.5 .. 2.0)
 ϵ_{10} : [2.0 .. 2.5)
 ϵ_{11} : [2.5 .. $+\infty$)

Closest Distance, rRup (km)				Magnitude (Mw)		ALL_ε	ε=(-∞, -2.5)	ε=[-2.5, -2)	
ε=[-2, -1.5)		ε=[-1.5, -1)		ε=[-1, -0.5)		ε=[-0.5, 0)	ε=[0, 0.5)		
ε=[0.5, 1)		ε=[1, 1.5)		ε=[1.5, 2)		ε=[2, 2.5)	ε=[2.5, ∞)		
170	7.9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
150	7.7	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
150	7.9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
130	7.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
130	7.7	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
130	7.9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
110	7.1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
110	7.3	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.001					
110	7.5	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.002					
110	7.7	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
110	7.9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
90	6.7	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
90	6.9	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.002					
90	7.1	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.008					
90	7.3	0.014	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.009	0.006					
90	7.5	0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.009	0.001					
90	7.7	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.001	0.001	0.000					
90	7.9	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.001	0.000	0.000					
70	6.1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					

70	6.3	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.003					
70	6.5	0.012	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.012					
70	6.7	0.025	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.014	0.011					
70	6.9	0.034	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.027	0.007					
70	7.1	0.054	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.013	0.040	0.001					
70	7.3	0.075	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.052	0.022	0.000					
70	7.5	0.046	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.001	0.040	0.005	0.000					
70	7.7	0.011	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.007	0.003	0.000	0.000					
70	7.9	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.002	0.000	0.000	0.000					
50	5.5	0.007	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.007					
50	5.7	0.022	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.001	0.020					
50	5.9	0.038	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.017	0.021					
50	6.1	0.071	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.054	0.017					
50	6.3	0.091	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.009	0.070	0.012					
50	6.5	0.116	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.053	0.060	0.003					
50	6.7	0.132	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.084	0.047	0.000					
50	6.9	0.149	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.019	0.103	0.026	0.000					
50	7.1	0.166	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.072	0.093	0.001	0.000					
50	7.3	0.162	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.113	0.049	0.000	0.000					
50	7.5	0.094	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.017	0.065	0.011	0.000	0.000					
50	7.7	0.014	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.007	0.007	0.000	0.000	0.000					
50	7.9	0.004	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.003	0.001	0.000	0.000	0.000					
30	5.1	0.057	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.027	0.030					
30	5.3	0.207	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.063	0.116	0.028					
30	5.5	0.512	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.090	0.298	0.101	0.023					

30	5.7	0.567	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.222	0.232	0.109	0.004					
30	5.9	0.548	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.006	0.277	0.185	0.080	0.000					
30	6.1	0.579	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.088	0.269	0.192	0.029	0.000					
30	6.3	0.599	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.227	0.232	0.138	0.002	0.000					
30	6.5	0.525	0.000	0.000	0.000	0.000	0.000	0.000	0.028
0.189	0.226	0.082	0.000	0.000					
30	6.7	0.500	0.000	0.000	0.000	0.000	0.000	0.000	0.059
0.216	0.184	0.041	0.000	0.000					
30	6.9	0.500	0.000	0.000	0.000	0.000	0.000	0.000	0.085
0.248	0.167	0.000	0.000	0.000					
30	7.1	0.502	0.000	0.000	0.000	0.000	0.000	0.012	0.175
0.220	0.096	0.000	0.000	0.000					
30	7.3	0.505	0.000	0.000	0.000	0.000	0.000	0.033	0.220
0.225	0.027	0.000	0.000	0.000					
30	7.5	0.267	0.000	0.000	0.000	0.000	0.000	0.021	0.141
0.105	0.000	0.000	0.000	0.000					
30	7.7	0.027	0.000	0.000	0.000	0.000	0.000	0.005	0.015
0.007	0.000	0.000	0.000	0.000					
30	7.9	0.006	0.000	0.000	0.000	0.000	0.000	0.002	0.004
0.000	0.000	0.000	0.000	0.000					
10	5.1	1.389	0.000	0.000	0.000	0.000	0.000	0.298	0.293
0.233	0.294	0.200	0.070	0.000					
10	5.3	1.845	0.000	0.000	0.000	0.000	0.284	0.296	0.297
0.450	0.348	0.170	0.000	0.000					
10	5.5	2.196	0.000	0.000	0.000	0.231	0.266	0.318	0.564
0.529	0.288	0.000	0.000	0.000					
10	5.7	1.774	0.000	0.000	0.000	0.355	0.000	0.243	0.547
0.519	0.111	0.000	0.000	0.000					
10	5.9	1.342	0.000	0.000	0.000	0.248	0.000	0.222	0.458
0.400	0.013	0.000	0.000	0.000					
10	6.1	1.531	0.000	0.000	0.000	0.176	0.195	0.465	0.415
0.280	0.000	0.000	0.000	0.000					
10	6.3	1.212	0.000	0.000	0.000	0.139	0.301	0.329	0.304
0.138	0.000	0.000	0.000	0.000					
10	6.5	1.040	0.000	0.000	0.000	0.134	0.233	0.319	0.254
0.100	0.000	0.000	0.000	0.000					
10	6.7	0.872	0.000	0.000	0.000	0.113	0.209	0.258	0.249
0.043	0.000	0.000	0.000	0.000					
10	6.9	0.707	0.000	0.000	0.000	0.079	0.200	0.253	0.176
0.000	0.000	0.000	0.000	0.000					
10	7.1	0.554	0.000	0.000	0.010	0.054	0.179	0.221	0.091
0.000	0.000	0.000	0.000	0.000					
10	7.3	0.417	0.000	0.000	0.013	0.051	0.134	0.188	0.032
0.000	0.000	0.000	0.000	0.000					
10	7.5	0.177	0.000	0.000	0.008	0.024	0.056	0.083	0.005
0.000	0.000	0.000	0.000	0.000					

10	7.7	0.014	0.000	0.000	0.001	0.002	0.006	0.005	0.000
0.000	0.000	0.000	0.000	0.000					
10	7.9	0.003	0.000	0.000	0.000	0.001	0.001	0.001	0.000
0.000	0.000	0.000	0.000	0.000					

Principal Sources (faults, subduction, random seismicity having > 3% contribution

WUSmap_2014_fixSm.ch.in (opt):

Percent Contributed: 2.97

Distance (km): 17.767162

Magnitude: 6.1167105

Epsilon (mean values): 0.45148304

noPuget_2014_fixSm.ch.in (opt):

Percent Contributed: 2.97

Distance (km): 17.76716

Magnitude: 6.1167104

Epsilon (mean values): 0.451483

WUSmap_2014_fixSm.gr.in (opt):

Percent Contributed: 2.96

Distance (km): 17.648036

Magnitude: 6.1141513

Epsilon (mean values): 0.44683474

noPuget_2014_fixSm.gr.in (opt):

Percent Contributed: 2.96

Distance (km): 17.648035

Magnitude: 6.1141513

Epsilon (mean values): 0.44683471

noPuget_2014_adSm.ch.in (opt):

Percent Contributed: 1.99

Distance (km): 17.565077

Magnitude: 6.1091569

Epsilon (mean values): 0.43872266

WUSmap_2014_adSm.ch.in (opt):

Percent Contributed: 1.98

Distance (km): 17.563194

Magnitude: 6.1091013

Epsilon (mean values): 0.43863592

noPuget_2014_adSm.gr.in (opt):

Percent Contributed: 1.98

Distance (km): 17.460512

Magnitude: 6.1068919

Epsilon (mean values): 0.43460263

WUSmap_2014_adSm.gr.in (opt):

Percent Contributed: 1.98

Distance (km): 17.458804

Magnitude: 6.1068399

Epsilon (mean values): 0.43452283

PSHA Deaggregation. %contributions.

site: Test

longitude: 119.584°W

latitude: 45.612°E

imt: Peak Ground Acceleration

vs30 = 1150 m/s (Site class B)
 return period: 2475 yrs.
 #This deaggregation corresponds to: GMM: Campbell & Bozorgnia (2014)
 Summary statistics for PSHA PGA deaggregation, r=distance, ε=epsilon:

Deaggregation targets:
 Return period: 2475 yrs
 Exceedance rate: 0.0004040404 yr⁻¹
 PGA ground motion: 0.1440636 g

Recovered targets:
 Return period: 2539.1415 yrs
 Exceedance rate: 0.0003938339 yr⁻¹

Totals:
 Binned: 25.78 %
 Residual: 0 %
 Trace: 0.12 %

Mean (over all sources):
 m: 6.27
 r: 20.21 km
 ε₀: 0.32 σ

Mode (largest m-r bin):
 m: 5.5
 r: 11.03 km
 ε₀: 0.37 σ
 Contribution: 1.85 %

Mode (largest m-r-ε₀ bin):
 m: 5.7
 r: 11.48 km
 ε₀: 0.22 σ
 Contribution: 0.54 %

Discretization:
 r: min = 0.0, max = 1000.0, Δ = 20.0 km
 m: min = 4.4, max = 9.4, Δ = 0.2
 ε: min = -3.0, max = 3.0, Δ = 0.5 σ

Epsilon keys:
 ε0: [-∞ .. -2.5)
 ε1: [-2.5 .. -2.0)
 ε2: [-2.0 .. -1.5)
 ε3: [-1.5 .. -1.0)
 ε4: [-1.0 .. -0.5)
 ε5: [-0.5 .. 0.0)
 ε6: [0.0 .. 0.5)
 ε7: [0.5 .. 1.0)
 ε8: [1.0 .. 1.5)
 ε9: [1.5 .. 2.0)
 ε10: [2.0 .. 2.5)
 ε11: [2.5 .. +∞]

Closest Distance, rRup (km)		Magnitude (Mw)		ALL_ε	ε=(-∞, -2.5)	ε=[-2.5, -2)
ε=[-2, -1.5)	ε=[-1.5, -1)	ε=[-1, -0.5)	ε=[-0.5, 0)	ε=[-0.5, 0)	ε=[0, 0.5)	
ε=[0.5, 1)	ε=[1, 1.5)	ε=[1.5, 2)	ε=[2, 2.5)	ε=[2, 2.5)	ε=[2.5, ∞)	
150	7.7	0.000	0.000	0.000	0.000	0.000

0.380	0.234	0.000	0.000	0.000					
30	6.7	0.801	0.000	0.000	0.000	0.000	0.000	0.022	0.254
0.351	0.174	0.000	0.000	0.000					
30	6.9	0.751	0.000	0.000	0.000	0.000	0.000	0.066	0.306
0.287	0.091	0.000	0.000	0.000					
30	7.1	0.705	0.000	0.000	0.000	0.000	0.000	0.120	0.310
0.269	0.006	0.000	0.000	0.000					
30	7.3	0.669	0.000	0.000	0.000	0.000	0.000	0.211	0.271
0.188	0.000	0.000	0.000	0.000					
30	7.5	0.339	0.000	0.000	0.000	0.000	0.008	0.107	0.163
0.060	0.000	0.000	0.000	0.000					
30	7.7	0.033	0.000	0.000	0.000	0.000	0.002	0.012	0.017
0.002	0.000	0.000	0.000	0.000					
30	7.9	0.007	0.000	0.000	0.000	0.000	0.000	0.003	0.004
0.000	0.000	0.000	0.000	0.000					
10	5.1	1.246	0.000	0.000	0.000	0.000	0.000	0.000	0.300
0.289	0.384	0.211	0.062	0.000					
10	5.3	1.573	0.000	0.000	0.000	0.000	0.000	0.303	0.326
0.403	0.388	0.148	0.005	0.000					
10	5.5	1.849	0.000	0.000	0.000	0.000	0.198	0.313	0.539
0.459	0.319	0.021	0.000	0.000					
10	5.7	1.657	0.000	0.000	0.000	0.000	0.320	0.191	0.541
0.468	0.138	0.000	0.000	0.000					
10	5.9	1.417	0.000	0.000	0.000	0.109	0.187	0.340	0.434
0.332	0.015	0.000	0.000	0.000					
10	6.1	1.815	0.000	0.000	0.000	0.255	0.428	0.535	0.441
0.156	0.000	0.000	0.000	0.000					
10	6.3	1.564	0.000	0.000	0.104	0.322	0.418	0.449	0.271
0.000	0.000	0.000	0.000	0.000					
10	6.5	1.406	0.000	0.028	0.147	0.282	0.408	0.409	0.132
0.000	0.000	0.000	0.000	0.000					
10	6.7	1.148	0.000	0.052	0.114	0.286	0.281	0.332	0.082
0.000	0.000	0.000	0.000	0.000					
10	6.9	0.902	0.000	0.044	0.094	0.205	0.287	0.272	0.000
0.000	0.000	0.000	0.000	0.000					
10	7.1	0.686	0.000	0.031	0.071	0.171	0.245	0.168	0.000
0.000	0.000	0.000	0.000	0.000					
10	7.3	0.501	0.000	0.021	0.049	0.135	0.201	0.096	0.000
0.000	0.000	0.000	0.000	0.000					
10	7.5	0.208	0.000	0.009	0.020	0.063	0.095	0.021	0.000
0.000	0.000	0.000	0.000	0.000					
10	7.7	0.016	0.000	0.001	0.002	0.005	0.008	0.001	0.000
0.000	0.000	0.000	0.000	0.000					
10	7.9	0.003	0.000	0.000	0.000	0.001	0.001	0.000	0.000
0.000	0.000	0.000	0.000	0.000					

Principal Sources (faults, subduction, random seismicity having > 3% contribution
WUSmap_2014_fixSm.ch.in (opt):

Percent Contributed: 3.41

Distance (km): 19.841907

Magnitude: 6.25522

Epsilon (mean values): 0.31080081

noPuget_2014_fixSm.ch.in (opt):

Percent Contributed: 3.41

Distance (km): 19.841903

Magnitude: 6.2552199

Epsilon (mean values): 0.31080069

WUSmap_2014_fixSm.gr.in (opt):

Percent Contributed: 3.39

Distance (km): 19.638605

Magnitude: 6.2516927

Epsilon (mean values): 0.30299707

noPuget_2014_fixSm.gr.in (opt):

Percent Contributed: 3.39

Distance (km): 19.6386

Magnitude: 6.2516927

Epsilon (mean values): 0.30299695

noPuget_2014_adSm.ch.in (opt):

Percent Contributed: 2.28

Distance (km): 19.621222

Magnitude: 6.2474611

Epsilon (mean values): 0.29965262

WUSmap_2014_adSm.ch.in (opt):

Percent Contributed: 2.27

Distance (km): 19.618322

Magnitude: 6.2473931

Epsilon (mean values): 0.2995391

noPuget_2014_adSm.gr.in (opt):

Percent Contributed: 2.27

Distance (km): 19.444084

Magnitude: 6.2443508

Epsilon (mean values): 0.29278893

WUSmap_2014_adSm.gr.in (opt):

Percent Contributed: 2.26

Distance (km): 19.441494

Magnitude: 6.2442878

Epsilon (mean values): 0.29268746

PSHA Deaggregation. %contributions.

site: Test

longitude: 119.584°W

latitude: 45.612°E

imt: Peak Ground Acceleration

vs30 = 1150 m/s (Site class B)

return period: 2475 yrs.

#This deaggregation corresponds to: GMM: Chiou & Youngs (2014)

Summary statistics for PSHA PGA deaggregation, r=distance, ϵ =epsilon:

Deaggregation targets:

Return period: 2475 yrs

Exceedance rate: 0.0004040404 yr⁻¹

PGA ground motion: 0.1440636 g

Recovered targets:

150	7.9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
130	7.3	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.001					
130	7.5	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.002					
130	7.7	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.001	0.000					
130	7.9	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
110	7.1	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.001					
110	7.3	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.002	0.006					
110	7.5	0.012	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.008	0.004					
110	7.7	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.001	0.002	0.000					
110	7.9	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.001	0.000	0.000					
90	6.9	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.002					
90	7.1	0.014	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.005	0.009					
90	7.3	0.031	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.002	0.026	0.002					
90	7.5	0.025	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.013	0.012	0.000					
90	7.7	0.005	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.001	0.004	0.000	0.000					
90	7.9	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.002	0.000	0.000	0.000					
70	6.3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
70	6.5	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.003					
70	6.7	0.012	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.004	0.007					
70	6.9	0.029	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.022	0.007					
70	7.1	0.067	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.027	0.039	0.001					
70	7.3	0.116	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.024	0.082	0.011	0.000					
70	7.5	0.081	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.048	0.032	0.001	0.000					
70	7.7	0.021	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.004	0.016	0.001	0.000	0.000					
70	7.9	0.004	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.003	0.001	0.000	0.000	0.000					

50	5.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
50	5.7	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.001					
50	5.9	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.008					
50	6.1	0.030	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.015	0.015					
50	6.3	0.055	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.042	0.013					
50	6.5	0.068	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.017	0.041	0.010					
50	6.7	0.084	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.037	0.043	0.004					
50	6.9	0.136	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.020	0.086	0.030	0.000					
50	7.1	0.195	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.002	0.109	0.082	0.002	0.000					
50	7.3	0.223	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.061	0.139	0.023	0.000	0.000					
50	7.5	0.141	0.000	0.000	0.000	0.000	0.000	0.000	0.001
0.079	0.059	0.001	0.000	0.000					
50	7.7	0.022	0.000	0.000	0.000	0.000	0.000	0.000	0.006
0.014	0.002	0.000	0.000	0.000					
50	7.9	0.007	0.000	0.000	0.000	0.000	0.000	0.000	0.004
0.003	0.000	0.000	0.000	0.000					
30	5.1	0.096	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.066	0.030					
30	5.3	0.163	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.034	0.108	0.021					
30	5.5	0.228	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.115	0.092	0.021					
30	5.7	0.287	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.036	0.169	0.063	0.019					
30	5.9	0.341	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.133	0.141	0.059	0.008					
30	6.1	0.458	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.026	0.261	0.130	0.043	0.000					
30	6.3	0.571	0.000	0.000	0.000	0.000	0.000	0.000	0.014
0.236	0.165	0.141	0.015	0.000					
30	6.5	0.494	0.000	0.000	0.000	0.000	0.000	0.000	0.041
0.186	0.183	0.081	0.002	0.000					
30	6.7	0.475	0.000	0.000	0.000	0.000	0.000	0.000	0.081
0.176	0.162	0.055	0.000	0.000					
30	6.9	0.562	0.000	0.000	0.000	0.000	0.000	0.033	0.147
0.240	0.136	0.006	0.000	0.000					
30	7.1	0.634	0.000	0.000	0.000	0.000	0.000	0.099	0.256
0.229	0.050	0.000	0.000	0.000					
30	7.3	0.680	0.000	0.000	0.000	0.000	0.024	0.201	0.280
0.166	0.009	0.000	0.000	0.000					

30	7.5	0.368	0.000	0.000	0.000	0.000	0.027	0.138	0.163
0.040	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
30	7.7	0.038	0.000	0.000	0.000	0.000	0.007	0.016	0.014
0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
30	7.9	0.008	0.000	0.000	0.000	0.000	0.002	0.005	0.002
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10	5.1	1.578	0.000	0.000	0.000	0.000	0.000	0.000	0.519
0.327	0.430	0.270	0.034	0.000	0.000	0.000	0.000	0.000	0.000
10	5.3	1.585	0.000	0.000	0.000	0.000	0.000	0.369	0.243
0.449	0.353	0.171	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10	5.5	1.471	0.000	0.000	0.000	0.000	0.000	0.356	0.220
0.514	0.322	0.059	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10	5.7	1.299	0.000	0.000	0.000	0.000	0.045	0.262	0.345
0.456	0.191	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10	5.9	1.120	0.000	0.000	0.000	0.000	0.209	0.125	0.347
0.365	0.074	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10	6.1	1.460	0.000	0.000	0.000	0.050	0.225	0.478	0.435
0.271	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10	6.3	1.271	0.000	0.000	0.000	0.114	0.329	0.411	0.304
0.113	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10	6.5	1.139	0.000	0.000	0.041	0.162	0.293	0.320	0.242
0.081	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10	6.7	0.973	0.000	0.021	0.061	0.145	0.285	0.240	0.204
0.018	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10	6.9	0.824	0.000	0.015	0.049	0.175	0.246	0.257	0.082
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10	7.1	0.661	0.000	0.021	0.054	0.149	0.230	0.200	0.007
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10	7.3	0.502	0.000	0.021	0.044	0.151	0.201	0.084	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10	7.5	0.212	0.000	0.009	0.026	0.073	0.087	0.017	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10	7.7	0.017	0.000	0.001	0.003	0.007	0.005	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10	7.9	0.003	0.000	0.000	0.001	0.001	0.001	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Principal Sources (faults, subduction, random seismicity having > 3% contribution

WUSmap_2014_fixSm.ch.in (opt):

Percent Contributed: 2.76

Distance (km): 17.981886

Magnitude: 6.2233578

Epsilon (mean values): 0.40848927

noPuget_2014_fixSm.ch.in (opt):

Percent Contributed: 2.76

Distance (km): 17.981871

Magnitude: 6.2233576

Epsilon (mean values): 0.40848893

WUSmap_2014_fixSm.gr.in (opt):

Percent Contributed: 2.75

Distance (km): 17.857272

Magnitude: 6.2207807
Epsilon (mean values): 0.40392014
noPuget_2014_fixSm.gr.in (opt):
Percent Contributed: 2.75
Distance (km): 17.857256
Magnitude: 6.2207805
Epsilon (mean values): 0.4039198
noPuget_2014_adSm.ch.in (opt):
Percent Contributed: 1.85
Distance (km): 17.799565
Magnitude: 6.2150333
Epsilon (mean values): 0.39990159
WUSmap_2014_adSm.ch.in (opt):
Percent Contributed: 1.85
Distance (km): 17.797142
Magnitude: 6.2149636
Epsilon (mean values): 0.3998197
noPuget_2014_adSm.gr.in (opt):
Percent Contributed: 1.84
Distance (km): 17.691997
Magnitude: 6.2127799
Epsilon (mean values): 0.39590918
WUSmap_2014_adSm.gr.in (opt):
Percent Contributed: 1.84
Distance (km): 17.689746
Magnitude: 6.2127136
Epsilon (mean values): 0.39583385
PSHA Deaggregation. %contributions.
site: Test
longitude: 119.584°W
latitude: 45.612°E
imt: Peak Ground Acceleration
vs30 = 1150 m/s (Site class B)
return period: 2475 yrs.
#This deaggregation corresponds to: GMM: Atkinson & Macias (2009) : Interface
Summary statistics for PSHA PGA deaggregation, r=distance, ε=epsilon:
Deaggregation targets:
Return period: 2475 yrs
Exceedance rate: 0.0004040404 yr⁻¹
PGA ground motion: 0.1440636 g
Recovered targets:
Return period: 2539.1415 yrs
Exceedance rate: 0.0003938339 yr⁻¹
Totals:
Binned: 0 %
Residual: 0 %
Trace: 0 %
Mean (over all sources):
m: null
r: null km

ϵ_0 : null σ
 Mode (largest m-r bin):
 m: null
 r: null km
 ϵ_0 : null σ
 Contribution: 0 %

Mode (largest m-r- ϵ_0 bin):
 m: null
 r: null km
 ϵ_0 : null σ
 Contribution: 0 %

Discretization:
 r: min = 0.0, max = 1000.0, Δ = 20.0 km
 m: min = 4.4, max = 9.4, Δ = 0.2
 ϵ : min = -3.0, max = 3.0, Δ = 0.5 σ

Epsilon keys:
 ϵ_0 : [- ∞ .. -2.5)
 ϵ_1 : [-2.5 .. -2.0)
 ϵ_2 : [-2.0 .. -1.5)
 ϵ_3 : [-1.5 .. -1.0)
 ϵ_4 : [-1.0 .. -0.5)
 ϵ_5 : [-0.5 .. 0.0)
 ϵ_6 : [0.0 .. 0.5)
 ϵ_7 : [0.5 .. 1.0)
 ϵ_8 : [1.0 .. 1.5)
 ϵ_9 : [1.5 .. 2.0)
 ϵ_{10} : [2.0 .. 2.5)
 ϵ_{11} : [2.5 .. $+\infty$)

Closest Distance, rRup (km)	Magnitude (Mw)	ALL_ ϵ	$\epsilon = (-\infty, -2.5)$	$\epsilon = [-2.5, -2)$
$\epsilon = [-2, -1.5)$	$\epsilon = [-1.5, -1)$	$\epsilon = [-1, -0.5)$	$\epsilon = [-0.5, 0)$	$\epsilon = [0, 0.5)$
$\epsilon = [0.5, 1)$	$\epsilon = [1, 1.5)$	$\epsilon = [1.5, 2)$	$\epsilon = [2, 2.5)$	$\epsilon = [2.5, \infty)$

Principal Sources (faults, subduction, random seismicity having > 3% contribution PSHA Deaggregation. %contributions.

site: Test
 longitude: 119.584°W
 latitude: 45.612°E
 imt: Peak Ground Acceleration
 vs30 = 1150 m/s (Site class B)
 return period: 2475 yrs.

#This deaggregation corresponds to: GMM: BC Hydro (2012) : Interface Summary statistics for PSHA PGA deaggregation, r=distance, ϵ =epsilon:

Deaggregation targets:
 Return period: 2475 yrs
 Exceedance rate: 0.0004040404 yr⁻¹
 PGA ground motion: 0.1440636 g

Recovered targets:
 Return period: 2539.1415 yrs
 Exceedance rate: 0.0003938339 yr⁻¹

Totals:

0.000	0.000	0.000	0.007	0.000					
310	8.5	0.059	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.059	0.000					
310	8.7	0.092	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.067	0.026	0.000					
310	8.9	0.539	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.539	0.000	0.000					
310	9.1	0.701	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.701	0.000	0.000					
310	9.3	1.106	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	1.106	0.000	0.000	0.000					

Principal Sources (faults, subduction, random seismicity having > 3% contribution
sub0_ch_bot.in:

Percent Contributed: 2.27
Distance (km): 308.17316
Magnitude: 9.1353696
Epsilon (mean values): 1.6295194

Cascadia Megathrust - whole CSZ Characteristic:

Percent Contributed: 2.27
Distance (km): 308.17316
Magnitude: 9.1353696
Epsilon (mean values): 1.6295194
Azimuth: 285.86185
Latitude: 46.3
Longitude: -123.4132

sub0_ch_mid.in:

Percent Contributed: 1.21
Distance (km): 361.47413
Magnitude: 8.948788
Epsilon (mean values): 2.0997161

Cascadia Megathrust - whole CSZ Characteristic:

Percent Contributed: 1.21
Distance (km): 361.47413
Magnitude: 8.948788
Epsilon (mean values): 2.0997161
Azimuth: 283.89391
Latitude: 46.3
Longitude: -124.13677

PSHA Deaggregation. %contributions.

site: Test

longitude: 119.584°W

latitude: 45.612°E

imt: Peak Ground Acceleration

vs30 = 1150 m/s (Site class B)

return period: 2475 yrs.

#This deaggregation corresponds to: GMM: BC Hydro (2012) : Slab

Summary statistics for PSHA PGA deaggregation, r=distance, ε=epsilon:

Deaggregation targets:

Return period: 2475 yrs

Exceedance rate: 0.0004040404 yr⁻¹

PGA ground motion: 0.1440636 g
 Recovered targets:
 Return period: 2539.1415 yrs
 Exceedance rate: 0.0003938339 yr⁻¹

Totals:
 Binned: 0.26 %
 Residual: 0 %
 Trace: 0.07 %

Mean (over all sources):
 m: 7.27
 r: 232.35 km
 ε₀: 2.2 σ

Mode (largest m-r bin):
 m: 7.12
 r: 229.8 km
 ε₀: 2.45 σ
 Contribution: 0.04 %

Mode (largest m-r-ε₀ bin):
 m: 7.11
 r: 212.1 km
 ε₀: 2.22 σ
 Contribution: 0.03 %

Discretization:
 r: min = 0.0, max = 1000.0, Δ = 20.0 km
 m: min = 4.4, max = 9.4, Δ = 0.2
 ε: min = -3.0, max = 3.0, Δ = 0.5 σ

Epsilon keys:
 ε₀: [-∞ .. -2.5)
 ε₁: [-2.5 .. -2.0)
 ε₂: [-2.0 .. -1.5)
 ε₃: [-1.5 .. -1.0)
 ε₄: [-1.0 .. -0.5)
 ε₅: [-0.5 .. 0.0)
 ε₆: [0.0 .. 0.5)
 ε₇: [0.5 .. 1.0)
 ε₈: [1.0 .. 1.5)
 ε₉: [1.5 .. 2.0)
 ε₁₀: [2.0 .. 2.5)
 ε₁₁: [2.5 .. +∞]

Closest Distance, rRup (km)				Magnitude (Mw)		ALL_ε	ε=(-∞, -2.5)	ε=[-2.5, -2)	
ε=[-2, -1.5)	ε=[-1.5, -1)	ε=[-1, -0.5)	ε=[-0.5, 0)	ε=[0, 0.5)	ε=[0.5, 1)	ε=[1, 1.5)	ε=[1.5, 2)	ε=[2, 2.5)	ε=[2.5, ∞)
290	7.1	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.001					
290	7.3	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.002					
290	7.5	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.002	0.000					
270	7.1	0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.010					

270	7.3	0.009	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.004	0.005					
270	7.5	0.011	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.011	0.000					
270	7.7	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.001	0.001	0.000					
270	7.9	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.001	0.000	0.000					
250	6.9	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.001					
250	7.1	0.032	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.004	0.028					
250	7.3	0.012	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.011	0.001					
250	7.5	0.014	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.006	0.008	0.000					
250	7.7	0.004	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.003	0.000	0.000					
250	7.9	0.004	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.004	0.000	0.000					
230	6.9	0.006	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.006					
230	7.1	0.040	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.026	0.014					
230	7.3	0.012	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.004	0.008	0.000					
230	7.5	0.012	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.011	0.001	0.000					
230	7.7	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.001	0.002	0.000	0.000					
230	7.9	0.004	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.003	0.001	0.000	0.000					
210	6.7	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
210	6.9	0.007	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.001	0.006					
210	7.1	0.029	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.001	0.028	0.000					
210	7.3	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.008	0.001	0.000					
210	7.5	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.003	0.005	0.000	0.000					
210	7.7	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.002	0.000	0.000	0.000					
210	7.9	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.003	0.000	0.000	0.000					
190	6.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
190	6.7	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.001					

site: Test
longitude: 119.584°W
latitude: 45.612°E
imt: Peak Ground Acceleration
vs30 = 1150 m/s (Site class B)
return period: 2475 yrs.
#This deaggregation corresponds to: GMM: Zhao et al. (2006) : Interface
Summary statistics for PSHA PGA deaggregation, r=distance, ϵ =epsilon:
Deaggregation targets:
 Return period: 2475 yrs
 Exceedance rate: 0.0004040404 yr⁻¹
 PGA ground motion: 0.1440636 g
Recovered targets:
 Return period: 2539.1415 yrs
 Exceedance rate: 0.0003938339 yr⁻¹
Totals:
 Binned: 1 %
 Residual: 0 %
 Trace: 0 %
Mean (over all sources):
 m: 9.17
 r: 312.38 km
 ϵ_0 : 2.05 σ
Mode (largest m-r bin):
 m: 9.34
 r: 308.17 km
 ϵ_0 : 1.81 σ
 Contribution: 0.54 %
Mode (largest m-r- ϵ_0 bin):
 m: 9.34
 r: 308.17 km
 ϵ_0 : 1.81 σ
 Contribution: 0.54 %
Discretization:
 r: min = 0.0, max = 1000.0, Δ = 20.0 km
 m: min = 4.4, max = 9.4, Δ = 0.2
 ϵ : min = -3.0, max = 3.0, Δ = 0.5 σ
Epsilon keys:
 ϵ_0 : [- ∞ .. -2.5)
 ϵ_1 : [-2.5 .. -2.0)
 ϵ_2 : [-2.0 .. -1.5)
 ϵ_3 : [-1.5 .. -1.0)
 ϵ_4 : [-1.0 .. -0.5)
 ϵ_5 : [-0.5 .. 0.0)
 ϵ_6 : [0.0 .. 0.5)
 ϵ_7 : [0.5 .. 1.0)
 ϵ_8 : [1.0 .. 1.5)
 ϵ_9 : [1.5 .. 2.0)
 ϵ_{10} : [2.0 .. 2.5)
 ϵ_{11} : [2.5 .. + ∞]

Closest Distance, rRup (km)				Magnitude (Mw)		ALL_ε	ε=(-∞, -2.5)	ε=[-2.5, -2)	
ε=[-2, -1.5)		ε=[-1.5, -1)		ε=[-1, -0.5)		ε=[-0.5, 0)	ε=[0, 0.5)		
ε=[0.5, 1)		ε=[1, 1.5)		ε=[1.5, 2)		ε=[2, 2.5)	ε=[2.5, ∞)		
370	9.1	0.075	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.075					
330	8.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
330	8.7	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.002					
330	8.9	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.008					
310	8.5	0.004	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.004					
310	8.7	0.015	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.005	0.010					
310	8.9	0.129	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.129	0.000					
310	9.1	0.226	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.226	0.000					
310	9.3	0.541	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.541	0.000	0.000					

Principal Sources (faults, subduction, random seismicity having > 3% contribution
PSHA Deaggregation. %contributions.

site: Test

longitude: 119.584°W

latitude: 45.612°E

imt: Peak Ground Acceleration

vs30 = 1150 m/s (Site class B)

return period: 2475 yrs.

#This deaggregation corresponds to: GMM: Zhao et al. (2006) : Slab

Summary statistics for PSHA PGA deaggregation, r=distance, ε=epsilon:

Deaggregation targets:

Return period: 2475 yrs

Exceedance rate: 0.0004040404 yr⁻¹

PGA ground motion: 0.1440636 g

Recovered targets:

Return period: 2539.1415 yrs

Exceedance rate: 0.0003938339 yr⁻¹

Totals:

Binned: 0.02 %

Residual: 0 %

Trace: 0.06 %

Mean (over all sources):

m: 7.66

r: 208.92 km

ε₀: 1.87 σ

Mode (largest m-r bin):

m: 7.91

r: 229.23 km

ε₀: 1.72 σ

Contribution: 0 %
 Mode (largest m-r- ϵ_0 bin):
 m: 7.91
 r: 230.18 km
 ϵ_0 : 1.74 σ
 Contribution: 0 %

Discretization:
 r: min = 0.0, max = 1000.0, Δ = 20.0 km
 m: min = 4.4, max = 9.4, Δ = 0.2
 ϵ : min = -3.0, max = 3.0, Δ = 0.5 σ

Epsilon keys:
 ϵ_0 : [- ∞ .. -2.5)
 ϵ_1 : [-2.5 .. -2.0)
 ϵ_2 : [-2.0 .. -1.5)
 ϵ_3 : [-1.5 .. -1.0)
 ϵ_4 : [-1.0 .. -0.5)
 ϵ_5 : [-0.5 .. 0.0)
 ϵ_6 : [0.0 .. 0.5)
 ϵ_7 : [0.5 .. 1.0)
 ϵ_8 : [1.0 .. 1.5)
 ϵ_9 : [1.5 .. 2.0)
 ϵ_{10} : [2.0 .. 2.5)
 ϵ_{11} : [2.5 .. + ∞)

Closest Distance, rRup (km)		Magnitude (Mw)		ALL_ ϵ	$\epsilon=(-\infty, -2.5)$	$\epsilon=[-2.5, -2)$
$\epsilon=[-2, -1.5)$	$\epsilon=[-1.5, -1)$	$\epsilon=[-1, -0.5)$	$\epsilon=[-0.5, 0)$	$\epsilon=[-0.5, 0)$	$\epsilon=[0, 0.5)$	
$\epsilon=[0.5, 1)$	$\epsilon=[1, 1.5)$	$\epsilon=[1.5, 2)$	$\epsilon=[2, 2.5)$	$\epsilon=[2, 2.5)$	$\epsilon=[2.5, \infty)$	
270	7.7	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000
270	7.9	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000
250	7.5	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000
250	7.7	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000
250	7.9	0.001	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.001	0.000	0.000	0.000
230	7.3	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000
230	7.5	0.001	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.001	0.000	0.000
230	7.7	0.001	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.001	0.000	0.000	0.000
230	7.9	0.002	0.000	0.000	0.000	0.000
0.000	0.000	0.002	0.000	0.000	0.000	0.000
210	7.1	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000
210	7.3	0.001	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000
210	7.5	0.001	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.001	0.000	0.000	0.000

latitude: 45.612°E

imt: Peak Ground Acceleration

vs30 = 1150 m/s (Site class B)

return period: 2475 yrs.

#This deaggregation corresponds to: Source Type: Grid

Summary statistics for PSHA PGA deaggregation, r=distance, ϵ =epsilon:

Deaggregation targets:

Return period: 2475 yrs

Exceedance rate: 0.0004040404 yr⁻¹

PGA ground motion: 0.1440636 g

Recovered targets:

Return period: 2539.1415 yrs

Exceedance rate: 0.0003938339 yr⁻¹

Totals:

Binned: 93.7 %

Residual: 0 %

Trace: 0.21 %

Mean (over all sources):

m: 6.18

r: 18.82 km

ϵ_0 : 0.43 σ

Mode (largest m-r bin):

m: 5.5

r: 11.12 km

ϵ_0 : 0.37 σ

Contribution: 7.32 %

Mode (largest m-r- ϵ_0 bin):

m: 5.3

r: 11.14 km

ϵ_0 : 0.78 σ

Contribution: 2.04 %

Discretization:

r: min = 0.0, max = 1000.0, Δ = 20.0 km

m: min = 4.4, max = 9.4, Δ = 0.2

ϵ : min = -3.0, max = 3.0, Δ = 0.5 σ

Epsilon keys:

ϵ_0 : [- ∞ .. -2.5)

ϵ_1 : [-2.5 .. -2.0)

ϵ_2 : [-2.0 .. -1.5)

ϵ_3 : [-1.5 .. -1.0)

ϵ_4 : [-1.0 .. -0.5)

ϵ_5 : [-0.5 .. 0.0)

ϵ_6 : [0.0 .. 0.5)

ϵ_7 : [0.5 .. 1.0)

ϵ_8 : [1.0 .. 1.5)

ϵ_9 : [1.5 .. 2.0)

ϵ_{10} : [2.0 .. 2.5)

ϵ_{11} : [2.5 .. $+\infty$]

Closest Distance, rRup (km)

ϵ =[-2,-1.5) ϵ =[-1.5,-1)

Magnitude (Mw)

ϵ =[-1,-0.5)

ALL_ ϵ

ϵ =[-0.5,0)

ϵ =(- ∞ , -2.5)

ϵ =[-2.5, -2)

ϵ =[0,0.5)

0.014	0.001	0.000	0.000	0.000					
30	5.1	0.643	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.194	0.315	0.134					
30	5.3	0.974	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.384	0.476	0.114					
30	5.5	1.518	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.172	0.873	0.389	0.084					
30	5.7	1.790	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.566	0.837	0.349	0.037					
30	5.9	1.976	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.044	0.969	0.671	0.282	0.009					
30	6.1	2.480	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.552	1.119	0.713	0.095	0.000					
30	6.3	2.979	0.000	0.000	0.000	0.000	0.000	0.000	0.227
1.232	1.029	0.474	0.017	0.000					
30	6.5	2.603	0.000	0.000	0.000	0.000	0.000	0.000	0.446
1.029	0.921	0.204	0.002	0.000					
30	6.7	2.312	0.000	0.000	0.000	0.000	0.000	0.022	0.444
0.985	0.743	0.119	0.000	0.000					
30	6.9	2.372	0.000	0.000	0.000	0.000	0.000	0.099	0.671
1.051	0.545	0.006	0.000	0.000					
30	7.1	2.410	0.000	0.000	0.000	0.000	0.000	0.232	0.982
0.996	0.200	0.000	0.000	0.000					
30	7.3	2.434	0.000	0.000	0.000	0.000	0.024	0.496	1.078
0.800	0.036	0.000	0.000	0.000					
30	7.5	1.281	0.000	0.000	0.000	0.000	0.035	0.323	0.644
0.278	0.000	0.000	0.000	0.000					
30	7.7	0.130	0.000	0.000	0.000	0.000	0.008	0.044	0.066
0.012	0.000	0.000	0.000	0.000					
30	7.9	0.029	0.000	0.000	0.000	0.000	0.003	0.013	0.012
0.000	0.000	0.000	0.000	0.000					
10	5.1	6.811	0.000	0.000	0.000	0.000	0.000	0.977	1.438
1.532	1.854	0.845	0.166	0.000					
10	5.3	7.168	0.000	0.000	0.000	0.000	0.284	1.481	1.177
2.042	1.651	0.528	0.005	0.000					
10	5.5	7.315	0.000	0.000	0.000	0.231	0.464	1.372	1.838
2.027	1.302	0.081	0.000	0.000					
10	5.7	6.215	0.000	0.000	0.000	0.355	0.605	0.884	1.844
1.946	0.580	0.000	0.000	0.000					
10	5.9	5.093	0.000	0.000	0.000	0.358	0.614	0.794	1.710
1.495	0.123	0.000	0.000	0.000					
10	6.1	6.288	0.000	0.000	0.000	0.536	1.071	1.937	1.746
0.998	0.000	0.000	0.000	0.000					
10	6.3	5.302	0.000	0.000	0.104	0.692	1.323	1.597	1.256
0.330	0.000	0.000	0.000	0.000					
10	6.5	4.673	0.000	0.028	0.215	0.688	1.175	1.402	0.935
0.230	0.000	0.000	0.000	0.000					
10	6.7	3.903	0.000	0.073	0.216	0.635	1.008	1.102	0.790
0.079	0.000	0.000	0.000	0.000					
10	6.9	3.185	0.000	0.059	0.171	0.560	0.938	1.046	0.411

0.000	0.000	0.000	0.000	0.000					
10	7.1	2.492	0.000	0.051	0.165	0.440	0.837	0.873	0.126
0.000	0.000	0.000	0.000	0.000					
10	7.3	1.865	0.000	0.043	0.127	0.401	0.693	0.566	0.035
0.000	0.000	0.000	0.000	0.000					
10	7.5	0.785	0.000	0.018	0.063	0.195	0.310	0.194	0.005
0.000	0.000	0.000	0.000	0.000					
10	7.7	0.062	0.000	0.002	0.007	0.017	0.027	0.009	0.000
0.000	0.000	0.000	0.000	0.000					
10	7.9	0.012	0.000	0.000	0.002	0.004	0.005	0.001	0.000
0.000	0.000	0.000	0.000	0.000					

Principal Sources (faults, subduction, random seismicity having > 3% contribution

WUSmap_2014_fixSm.ch.in (opt):

Percent Contributed: 12.49

Distance (km): 18.783373

Magnitude: 6.1697856

Epsilon (mean values): 0.43852899

PointSourceFinite: -119.584, 45.697:

Percent Contributed: 1.5

Distance (km): 10.261935

Magnitude: 5.833417

Epsilon (mean values): 0.057299907

Azimuth: 0

Latitude: 45.697435

Longitude: -119.584

PointSourceFinite: -119.584, 45.625:

Percent Contributed: 1.36

Distance (km): 5.2815137

Magnitude: 5.6352474

Epsilon (mean values): -0.59889577

Azimuth: 0

Latitude: 45.62549

Longitude: -119.584

noPuget_2014_fixSm.ch.in (opt):

Percent Contributed: 12.49

Distance (km): 18.783366

Magnitude: 6.1697855

Epsilon (mean values): 0.43852881

PointSourceFinite: -119.584, 45.697:

Percent Contributed: 1.5

Distance (km): 10.261935

Magnitude: 5.833417

Epsilon (mean values): 0.057299907

Azimuth: 0

Latitude: 45.697435

Longitude: -119.584

PointSourceFinite: -119.584, 45.625:

Percent Contributed: 1.36

Distance (km): 5.2815137

Magnitude: 5.6352474

Epsilon (mean values): -0.59889577
Azimuth: 0
Latitude: 45.62549
Longitude: -119.584
WUSmap_2014_fixSm.gr.in (opt):
Percent Contributed: 12.44
Distance (km): 18.629936
Magnitude: 6.1666734
Epsilon (mean values): 0.43297471
PointSourceFinite: -119.584, 45.697:
Percent Contributed: 1.5
Distance (km): 10.261935
Magnitude: 5.833417
Epsilon (mean values): 0.057299907
Azimuth: 0
Latitude: 45.697435
Longitude: -119.584
PointSourceFinite: -119.584, 45.625:
Percent Contributed: 1.36
Distance (km): 5.2815137
Magnitude: 5.6352474
Epsilon (mean values): -0.59889577
Azimuth: 0
Latitude: 45.62549
Longitude: -119.584
noPuget_2014_fixSm.gr.in (opt):
Percent Contributed: 12.44
Distance (km): 18.629929
Magnitude: 6.1666733
Epsilon (mean values): 0.43297453
PointSourceFinite: -119.584, 45.697:
Percent Contributed: 1.5
Distance (km): 10.261935
Magnitude: 5.833417
Epsilon (mean values): 0.057299907
Azimuth: 0
Latitude: 45.697435
Longitude: -119.584
PointSourceFinite: -119.584, 45.625:
Percent Contributed: 1.36
Distance (km): 5.2815137
Magnitude: 5.6352474
Epsilon (mean values): -0.59889577
Azimuth: 0
Latitude: 45.62549
Longitude: -119.584
noPuget_2014_adSm.ch.in (opt):
Percent Contributed: 8.36
Distance (km): 18.577773
Magnitude: 6.1619471

Epsilon (mean values): 0.42771352
WUSmap_2014_adSm.ch.in (opt):
 Percent Contributed: 8.35
 Distance (km): 18.575292
 Magnitude: 6.1618805
 Epsilon (mean values): 0.4276198
noPuget_2014_adSm.gr.in (opt):
 Percent Contributed: 8.33
 Distance (km): 18.444252
 Magnitude: 6.1592088
 Epsilon (mean values): 0.42282912
WUSmap_2014_adSm.gr.in (opt):
 Percent Contributed: 8.32
 Distance (km): 18.441998
 Magnitude: 6.1591466
 Epsilon (mean values): 0.42274378
WUSmap_2014_fixSm_M8.in (opt):
 Percent Contributed: 3.09
 Distance (km): 20.479972
 Magnitude: 6.2986007
 Epsilon (mean values): 0.42594915
noPuget_2014_fixSm_M8.in (opt):
 Percent Contributed: 3.09
 Distance (km): 20.479622
 Magnitude: 6.2985962
 Epsilon (mean values): 0.42594316
noPuget_2014_adSm_M8.in (opt):
 Percent Contributed: 2.06
 Distance (km): 20.26648
 Magnitude: 6.2891393
 Epsilon (mean values): 0.41580273
WUSmap_2014_adSm_M8.in (opt):
 Percent Contributed: 2.06
 Distance (km): 20.261766
 Magnitude: 6.2890104
 Epsilon (mean values): 0.41566764
PSHA Deaggregation. %contributions.
site: Test
longitude: 119.584°W
latitude: 45.612°E
imt: Peak Ground Acceleration
vs30 = 1150 m/s (Site class B)
return period: 2475 yrs.
#This deaggregation corresponds to: Source Type: Slab
Summary statistics for PSHA PGA deaggregation, r=distance, ε=epsilon:
Deaggregation targets:
 Return period: 2475 yrs
 Exceedance rate: 0.0004040404 yr⁻¹
 PGA ground motion: 0.1440636 g
Recovered targets:

Return period: 2539.1415 yrs
 Exceedance rate: 0.0003938339 yr⁻¹

Totals:

Binned: 0.28 %
 Residual: 0 %
 Trace: 0.11 %

Mean (over all sources):

m: 7.3
 r: 231.04 km
 ε₀: 2.18 σ

Mode (largest m-r bin):

m: 7.12
 r: 229.8 km
 ε₀: 2.45 σ

Contribution: 0.04 %

Mode (largest m-r-ε₀ bin):

m: 7.11
 r: 212.1 km
 ε₀: 2.22 σ

Contribution: 0.03 %

Discretization:

r: min = 0.0, max = 1000.0, Δ = 20.0 km
 m: min = 4.4, max = 9.4, Δ = 0.2
 ε: min = -3.0, max = 3.0, Δ = 0.5 σ

Epsilon keys:

ε₀: [-∞ .. -2.5)
 ε₁: [-2.5 .. -2.0)
 ε₂: [-2.0 .. -1.5)
 ε₃: [-1.5 .. -1.0)
 ε₄: [-1.0 .. -0.5)
 ε₅: [-0.5 .. 0.0)
 ε₆: [0.0 .. 0.5)
 ε₇: [0.5 .. 1.0)
 ε₈: [1.0 .. 1.5)
 ε₉: [1.5 .. 2.0)
 ε₁₀: [2.0 .. 2.5)
 ε₁₁: [2.5 .. +∞]

Closest Distance, rRup (km)		Magnitude (Mw)		ALL_ε	ε=(-∞, -2.5)	ε=[-2.5, -2)
ε=[-2, -1.5)	ε=[-1.5, -1)	ε=[-1, -0.5)	ε=[-0.5, 0)	ε=[-0.5, 0)	ε=[0, 0.5)	ε=[0, 0.5)
ε=[0.5, 1)	ε=[1, 1.5)	ε=[1.5, 2)	ε=[2, 2.5)	ε=[2, 2.5)	ε=[2.5, ∞)	ε=[2.5, ∞)
290	7.1	0.001	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.001		
290	7.3	0.002	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.002		
290	7.5	0.002	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.002	0.000		
270	7.1	0.010	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.010		
270	7.3	0.009	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.004	0.005		

270	7.5	0.011	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.011	0.000					
270	7.7	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.001	0.001	0.000					
270	7.9	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.001	0.000	0.000					
250	6.9	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.001					
250	7.1	0.032	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.004	0.028					
250	7.3	0.012	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.011	0.001					
250	7.5	0.014	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.006	0.008	0.000					
250	7.7	0.004	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.003	0.000	0.000					
250	7.9	0.006	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.004	0.001	0.000					
230	6.9	0.006	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.006					
230	7.1	0.040	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.026	0.014					
230	7.3	0.012	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.004	0.008	0.000					
230	7.5	0.012	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.011	0.001	0.001					
230	7.7	0.004	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.001	0.002	0.001	0.000					
230	7.9	0.006	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.003	0.003	0.000	0.000					
210	6.7	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
210	6.9	0.007	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.001	0.006					
210	7.1	0.029	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.001	0.028	0.000					
210	7.3	0.009	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.008	0.001	0.000					
210	7.5	0.009	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.003	0.005	0.001	0.000					
210	7.7	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.002	0.001	0.000	0.000					
210	7.9	0.005	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.004	0.001	0.000	0.000					
190	6.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
190	6.7	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.001					
190	6.9	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.002	0.000					

latitude: 45.612°E

imt: Peak Ground Acceleration

vs30 = 1150 m/s (Site class B)

return period: 2475 yrs.

#This deaggregation corresponds to: Source Type: Interface

Summary statistics for PSHA PGA deaggregation, r=distance, ϵ =epsilon:

Deaggregation targets:

Return period: 2475 yrs

Exceedance rate: 0.0004040404 yr⁻¹

PGA ground motion: 0.1440636 g

Recovered targets:

Return period: 2539.1415 yrs

Exceedance rate: 0.0003938339 yr⁻¹

Totals:

Binned: 5.36 %

Residual: 0 %

Trace: 0.03 %

Mean (over all sources):

m: 9.03

r: 328.11 km

ϵ_0 : 1.91 σ

Mode (largest m-r bin):

m: 9.34

r: 308.17 km

ϵ_0 : 1.59 σ

Contribution: 1.65 %

Mode (largest m-r- ϵ_0 bin):

m: 9.34

r: 308.17 km

ϵ_0 : 1.48 σ

Contribution: 1.11 %

Discretization:

r: min = 0.0, max = 1000.0, Δ = 20.0 km

m: min = 4.4, max = 9.4, Δ = 0.2

ϵ : min = -3.0, max = 3.0, Δ = 0.5 σ

Epsilon keys:

ϵ_0 : [- ∞ .. -2.5)

ϵ_1 : [-2.5 .. -2.0)

ϵ_2 : [-2.0 .. -1.5)

ϵ_3 : [-1.5 .. -1.0)

ϵ_4 : [-1.0 .. -0.5)

ϵ_5 : [-0.5 .. 0.0)

ϵ_6 : [0.0 .. 0.5)

ϵ_7 : [0.5 .. 1.0)

ϵ_8 : [1.0 .. 1.5)

ϵ_9 : [1.5 .. 2.0)

ϵ_{10} : [2.0 .. 2.5)

ϵ_{11} : [2.5 .. $+\infty$]

Closest Distance, rRup (km)

ϵ =[-2,-1.5) ϵ =[-1.5,-1)

Magnitude (Mw)

ϵ =[-1,-0.5)

ALL_ ϵ ϵ =(- ∞ , -2.5)

ϵ =[-0.5,0)

ϵ =[-2.5, -2)

ϵ =[0,0.5)

0.000	0.000	0.000	0.001	0.002					
330	8.3	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.002	0.000					
330	8.5	0.033	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.033	0.000					
330	8.7	0.037	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.035	0.002					
330	8.9	0.058	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.050	0.000	0.008					
310	7.9	0.004	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.004					
310	8.1	0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.010	0.000					
310	8.3	0.007	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.007	0.000					
310	8.5	0.063	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.059	0.004					
310	8.7	0.107	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.067	0.030	0.010					
310	8.9	0.668	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.539	0.129	0.000					
310	9.1	0.927	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.701	0.226	0.000					
310	9.3	1.647	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	1.106	0.541	0.000	0.000					

Principal Sources (faults, subduction, random seismicity having > 3% contribution
sub0_ch_bot.in:

Percent Contributed: 3.14
Distance (km): 308.17316
Magnitude: 9.1513388
Epsilon (mean values): 1.7266525

Cascadia Megathrust - whole CSZ Characteristic:

Percent Contributed: 3.14
Distance (km): 308.17316
Magnitude: 9.1513388
Epsilon (mean values): 1.7266525
Azimuth: 285.86185
Latitude: 46.3
Longitude: -123.4132

sub0_ch_mid.in:

Percent Contributed: 1.29
Distance (km): 361.47413
Magnitude: 8.9587642
Epsilon (mean values): 2.1311959

Cascadia Megathrust - whole CSZ Characteristic:

Percent Contributed: 1.29
Distance (km): 361.47413
Magnitude: 8.9587642
Epsilon (mean values): 2.1311959
Azimuth: 283.89391

Latitude: 46.3
Longitude: -124.13677
PSHA Deaggregation. %contributions.
site: Test
longitude: 119.584°W
latitude: 45.612°E
imt: Peak Ground Acceleration
vs30 = 1150 m/s (Site class B)
return period: 2475 yrs.
#This deaggregation corresponds to: Source Type: Fault
Summary statistics for PSHA PGA deaggregation, r=distance, ϵ =epsilon:
Deaggregation targets:
Return period: 2475 yrs
Exceedance rate: 0.0004040404 yr⁻¹
PGA ground motion: 0.1440636 g
Recovered targets:
Return period: 2539.1415 yrs
Exceedance rate: 0.0003938339 yr⁻¹
Totals:
Binned: 0.67 %
Residual: 0 %
Trace: 0.01 %
Mean (over all sources):
m: 7.13
r: 62.55 km
 ϵ_0 : 1.82 σ
Mode (largest m-r bin):
m: 7.33
r: 62.01 km
 ϵ_0 : 1.62 σ
Contribution: 0.11 %
Mode (largest m-r- ϵ_0 bin):
m: 7.31
r: 62.02 km
 ϵ_0 : 1.66 σ
Contribution: 0.08 %
Discretization:
r: min = 0.0, max = 1000.0, Δ = 20.0 km
m: min = 4.4, max = 9.4, Δ = 0.2
 ϵ : min = -3.0, max = 3.0, Δ = 0.5 σ
Epsilon keys:
 ϵ_0 : [- ∞ .. -2.5)
 ϵ_1 : [-2.5 .. -2.0)
 ϵ_2 : [-2.0 .. -1.5)
 ϵ_3 : [-1.5 .. -1.0)
 ϵ_4 : [-1.0 .. -0.5)
 ϵ_5 : [-0.5 .. 0.0)
 ϵ_6 : [0.0 .. 0.5)
 ϵ_7 : [0.5 .. 1.0)
 ϵ_8 : [1.0 .. 1.5)

ϵ_9 : [1.5 .. 2.0)
 ϵ_{10} : [2.0 .. 2.5)
 ϵ_{11} : [2.5 .. $+\infty$)

Closest Distance, rRup (km)				Magnitude (Mw)		ALL_ε	ε=(-∞, -2.5)	ε=[-2.5, -2)	
ε=[-2, -1.5)		ε=[-1.5, -1)		ε=[-1, -0.5)		ε=[-0.5, 0)	ε=[0, 0.5)		
ε=[0.5, 1)		ε=[1, 1.5)		ε=[1.5, 2)		ε=[2, 2.5)	ε=[2.5, ∞)		
130	7.3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
130	7.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
110	7.1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
110	7.3	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.002					
110	7.5	0.006	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.001	0.004					
110	7.7	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.001	0.000					
90	6.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
90	6.7	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.001					
90	6.9	0.005	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.001	0.004					
90	7.1	0.012	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.007	0.005					
90	7.3	0.009	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.009	0.000					
90	7.5	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.001	0.001	0.000					
70	6.5	0.016	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.011	0.005					
70	6.7	0.043	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.040	0.003					
70	6.9	0.028	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.010	0.019	0.000					
70	7.1	0.079	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.059	0.020	0.000					
70	7.3	0.111	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.027	0.083	0.000	0.000					
70	7.5	0.075	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.058	0.018	0.000	0.000					
70	7.7	0.030	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.002	0.028	0.000	0.000	0.000					
70	7.9	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.001	0.001	0.000	0.000	0.000					
50	6.5	0.018	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.016	0.002					
50	6.7	0.050	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.017	0.032	0.001					

50	6.9	0.065	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.045	0.020	0.000					
50	7.1	0.068	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.068	0.000	0.000					
50	7.3	0.036	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.013	0.023	0.000	0.000					
50	7.5	0.006	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.005	0.000	0.000	0.000					

Principal Sources (faults, subduction, random seismicity having > 3% contribution

*** Deaggregation of Seismic Hazard at One Period of Spectral Acceleration ***

*** Data from Dynamic: Conterminous U.S. 2014 (update) (4.2.0) ****

PSHA Deaggregation. %contributions.

site: Test

longitude: 119.584°W

latitude: 45.612°E

imt: Peak Ground Acceleration

vs30 = 537 m/s (Site class C)

return period: 2475 yrs.

#This deaggregation corresponds to: Total

Summary statistics for PSHA PGA deaggregation, r=distance, ϵ =epsilon:

Deaggregation targets:

Return period: 2475 yrs

Exceedance rate: 0.0004040404 yr⁻¹

PGA ground motion: 0.19927496 g

Recovered targets:

Return period: 2555.8899 yrs

Exceedance rate: 0.00039125316 yr⁻¹

Totals:

Binned: 100 %

Residual: 0 %

Trace: 0.4 %

Mean (over all sources):

m: 6.29

r: 31.94 km

ϵ_0 : 0.53 σ

Mode (largest m-r bin):

m: 5.5

r: 11.21 km

ϵ_0 : 0.36 σ

Contribution: 7.38 %

Mode (largest m-r- ϵ_0 bin):

m: 5.5

r: 13.38 km

ϵ_0 : 0.73 σ

Contribution: 2.29 %

Discretization:

r: min = 0.0, max = 1000.0, Δ = 20.0 km

m: min = 4.4, max = 9.4, Δ = 0.2

ϵ : min = -3.0, max = 3.0, Δ = 0.5 σ

Epsilon keys:

ϵ_0 : [-∞ .. -2.5)

ϵ_1 : [-2.5 .. -2.0)

ϵ_2 : [-2.0 .. -1.5)

ϵ_3 : [-1.5 .. -1.0)

ϵ_4 : [-1.0 .. -0.5)

ϵ_5 : [-0.5 .. 0.0)

ϵ_6 : [0.0 .. 0.5)

ϵ_7 : [0.5 .. 1.0)

ϵ_8 : [1.0 .. 1.5)

ϵ_9 : [1.5 .. 2.0)
 ϵ_{10} : [2.0 .. 2.5)
 ϵ_{11} : [2.5 .. $+\infty$)

Closest Distance, rRup (km)				Magnitude (Mw)		ALL_ε	$\epsilon=(-\infty, -2.5)$	$\epsilon=[-2.5, -2)$	
$\epsilon=[-2, -1.5)$	$\epsilon=[-1.5, -1)$	$\epsilon=[-1, -0.5)$	$\epsilon=[-0.5, 0)$	$\epsilon=[0, 0.5)$	$\epsilon=[0.5, 1)$	$\epsilon=[1, 1.5)$	$\epsilon=[2, 2.5)$	$\epsilon=[2.5, \infty)$	
430	8.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
410	8.3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
410	8.5	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.001					
390	8.1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
390	8.3	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.001					
390	8.5	0.005	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.005					
390	8.7	0.090	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.090					
390	9.1	0.109	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.109	0.000					
370	7.9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
370	8.1	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.002					
370	8.3	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.003					
370	8.5	0.043	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.006	0.037					
370	8.7	0.221	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.221	0.000					
370	8.9	0.249	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.249	0.000					
370	9.1	0.521	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.481	0.040					
350	7.9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
350	8.1	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.001					
350	8.3	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.001					
350	8.5	0.004	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.003	0.001					
330	7.9	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.001					
330	8.1	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.002					
330	8.3	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.001	0.001					

330	8.5	0.025	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.025	0.000					
330	8.7	0.026	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.026	0.000					
330	8.9	0.043	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.039	0.005					
310	7.9	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.002					
310	8.1	0.007	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.004	0.004					
310	8.3	0.005	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.005	0.000					
310	8.5	0.046	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.044	0.002					
310	8.7	0.079	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.071	0.009					
310	8.9	0.503	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.418	0.007	0.078					
310	9.1	0.706	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.549	0.157	0.000					
310	9.3	1.285	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	1.285	0.000	0.000					
290	7.1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
290	7.3	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.001					
290	7.5	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.001	0.001					
270	7.1	0.004	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.004					
270	7.3	0.006	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.001	0.005					
270	7.5	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.007	0.001					
270	7.7	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.001	0.000					
270	7.9	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
250	6.9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
250	7.1	0.016	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.016					
250	7.3	0.009	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.006	0.002					
250	7.5	0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.002	0.009	0.000					
250	7.7	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.002	0.001	0.000					
250	7.9	0.004	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.003	0.001	0.000					

230	6.9	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.003					
230	7.1	0.024	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.011	0.013					
230	7.3	0.009	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.001	0.008	0.000					
230	7.5	0.009	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.008	0.001	0.000					
230	7.7	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.002	0.000	0.000					
230	7.9	0.005	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.001	0.003	0.000	0.000					
210	6.7	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
210	6.9	0.004	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.004					
210	7.1	0.021	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.019	0.002					
210	7.3	0.007	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.004	0.002	0.000					
210	7.5	0.007	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.006	0.000	0.000					
210	7.7	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.001	0.001	0.000	0.000					
210	7.9	0.004	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.003	0.001	0.000	0.000					
190	6.7	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
190	6.9	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.001	0.001					
190	7.1	0.007	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.002	0.004	0.000					
190	7.3	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.002	0.000	0.000					
190	7.5	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.002	0.000	0.000	0.000					
190	7.7	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.001	0.000	0.000	0.000					
190	7.9	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.001	0.002	0.000	0.000	0.000					
170	6.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
170	6.7	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
170	6.9	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.001	0.000					
170	7.1	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.002	0.000	0.000					
170	7.3	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					

110	6.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
110	6.7	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
110	6.9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
110	7.1	0.005	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.005					
110	7.3	0.028	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.006	0.022					
110	7.5	0.035	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.022	0.013					
110	7.7	0.009	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.002	0.006	0.001					
110	7.9	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.002	0.001	0.000					
90	6.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
90	6.7	0.006	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.006					
90	6.9	0.030	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.001	0.029					
90	7.1	0.074	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.039	0.035					
90	7.3	0.120	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.007	0.103	0.010					
90	7.5	0.085	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.036	0.048	0.001					
90	7.7	0.017	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.002	0.012	0.002	0.000					
90	7.9	0.006	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.003	0.003	0.000	0.000					
70	5.9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
70	6.1	0.007	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.007					
70	6.3	0.042	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.004	0.038					
70	6.5	0.098	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.043	0.054					
70	6.7	0.150	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.106	0.044					
70	6.9	0.202	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.022	0.163	0.016					
70	7.1	0.323	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.179	0.143	0.001					
70	7.3	0.458	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.043	0.370	0.046	0.000					
70	7.5	0.288	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.133	0.152	0.004	0.000					

70	7.7	0.067	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.008	0.050	0.008	0.000	0.000					
70	7.9	0.014	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.005	0.008	0.001	0.000	0.000					
50	5.1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
50	5.3	0.005	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.005					
50	5.5	0.044	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.002	0.041					
50	5.7	0.095	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.031	0.064					
50	5.9	0.161	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.094	0.067					
50	6.1	0.338	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.033	0.234	0.071					
50	6.3	0.514	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.200	0.281	0.033					
50	6.5	0.622	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.374	0.240	0.008					
50	6.7	0.633	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.052	0.399	0.179	0.003					
50	6.9	0.749	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.226	0.461	0.061	0.000					
50	7.1	0.863	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.011	0.501	0.350	0.002	0.000					
50	7.3	0.861	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.186	0.566	0.108	0.000	0.000					
50	7.5	0.503	0.000	0.000	0.000	0.000	0.000	0.000	0.006
0.230	0.252	0.016	0.000	0.000					
50	7.7	0.074	0.000	0.000	0.000	0.000	0.000	0.000	0.010
0.050	0.014	0.000	0.000	0.000					
50	7.9	0.023	0.000	0.000	0.000	0.000	0.000	0.000	0.008
0.013	0.002	0.000	0.000	0.000					
30	5.1	0.740	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.207	0.390	0.142					
30	5.3	1.140	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.552	0.470	0.119					
30	5.5	1.761	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.379	0.873	0.447	0.062					
30	5.7	1.988	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.021	0.743	0.844	0.348	0.031					
30	5.9	2.105	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.165	0.994	0.717	0.218	0.011					
30	6.1	2.536	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.535	1.229	0.687	0.085	0.000					
30	6.3	2.968	0.000	0.000	0.000	0.000	0.000	0.000	0.070
1.372	1.061	0.453	0.012	0.000					
30	6.5	2.572	0.000	0.000	0.000	0.000	0.000	0.000	0.246
1.099	1.014	0.212	0.000	0.000					

30	6.7	2.299	0.000	0.000	0.000	0.000	0.000	0.005	0.400
1.013	0.783	0.098	0.000	0.000					
30	6.9	2.366	0.000	0.000	0.000	0.000	0.000	0.069	0.650
1.067	0.577	0.004	0.000	0.000					
30	7.1	2.407	0.000	0.000	0.000	0.000	0.000	0.207	0.995
1.001	0.203	0.000	0.000	0.000					
30	7.3	2.431	0.000	0.000	0.000	0.000	0.037	0.400	1.157
0.795	0.041	0.000	0.000	0.000					
30	7.5	1.279	0.000	0.000	0.000	0.000	0.030	0.312	0.655
0.282	0.000	0.000	0.000	0.000					
30	7.7	0.130	0.000	0.000	0.000	0.000	0.008	0.043	0.065
0.013	0.000	0.000	0.000	0.000					
30	7.9	0.029	0.000	0.000	0.000	0.000	0.003	0.013	0.011
0.001	0.000	0.000	0.000	0.000					
10	5.1	7.007	0.000	0.000	0.000	0.000	0.000	1.131	1.155
1.710	1.934	0.929	0.144	0.003					
10	5.3	7.310	0.000	0.000	0.000	0.000	0.412	1.113	1.372
2.121	1.856	0.413	0.022	0.000					
10	5.5	7.378	0.000	0.000	0.000	0.517	0.001	1.467	1.787
2.285	1.211	0.109	0.000	0.000					
10	5.7	6.226	0.000	0.000	0.000	0.368	0.557	1.157	1.723
1.816	0.593	0.012	0.000	0.000					
10	5.9	5.081	0.000	0.000	0.000	0.257	0.841	0.700	1.717
1.394	0.173	0.000	0.000	0.000					
10	6.1	6.261	0.000	0.000	0.000	0.466	1.229	1.751	1.787
1.015	0.013	0.000	0.000	0.000					
10	6.3	5.286	0.000	0.000	0.000	0.686	1.213	1.749	1.402
0.235	0.000	0.000	0.000	0.000					
10	6.5	4.669	0.000	0.000	0.139	0.685	1.199	1.345	1.160
0.141	0.000	0.000	0.000	0.000					
10	6.7	3.902	0.000	0.021	0.205	0.494	1.163	1.071	0.921
0.027	0.000	0.000	0.000	0.000					
10	6.9	3.185	0.000	0.022	0.165	0.503	0.979	1.060	0.455
0.000	0.000	0.000	0.000	0.000					
10	7.1	2.491	0.000	0.025	0.164	0.415	0.811	0.985	0.090
0.000	0.000	0.000	0.000	0.000					
10	7.3	1.864	0.000	0.022	0.127	0.375	0.675	0.642	0.024
0.000	0.000	0.000	0.000	0.000					
10	7.5	0.784	0.000	0.014	0.061	0.182	0.300	0.224	0.003
0.000	0.000	0.000	0.000	0.000					
10	7.7	0.062	0.000	0.001	0.006	0.018	0.025	0.011	0.000
0.000	0.000	0.000	0.000	0.000					
10	7.9	0.012	0.000	0.000	0.002	0.004	0.005	0.001	0.000
0.000	0.000	0.000	0.000	0.000					

Principal Sources (faults, subduction, random seismicity having > 3% contribution
WUSmap_2014_fixSm.ch.in (opt):

Percent Contributed: 12.69
Distance (km): 18.958935
Magnitude: 6.1601847
Epsilon (mean values): 0.46393618

PointSourceFinite: -119.584, 45.697:
Percent Contributed: 1.51
Distance (km): 10.262971
Magnitude: 5.8294582
Epsilon (mean values): 0.062946135
Azimuth: 0
Latitude: 45.697435
Longitude: -119.584

PointSourceFinite: -119.584, 45.625:
Percent Contributed: 1.35
Distance (km): 5.2804029
Magnitude: 5.6362284
Epsilon (mean values): -0.59738412
Azimuth: 0
Latitude: 45.62549
Longitude: -119.584

noPuget_2014_fixSm.ch.in (opt):
Percent Contributed: 12.69
Distance (km): 18.958924
Magnitude: 6.1601846
Epsilon (mean values): 0.46393595

PointSourceFinite: -119.584, 45.697:
Percent Contributed: 1.51
Distance (km): 10.262971
Magnitude: 5.8294582
Epsilon (mean values): 0.062946135
Azimuth: 0
Latitude: 45.697435
Longitude: -119.584

PointSourceFinite: -119.584, 45.625:
Percent Contributed: 1.35
Distance (km): 5.2804029
Magnitude: 5.6362284
Epsilon (mean values): -0.59738412
Azimuth: 0
Latitude: 45.62549
Longitude: -119.584

WUSmap_2014_fixSm.gr.in (opt):
Percent Contributed: 12.64
Distance (km): 18.805096
Magnitude: 6.1570061
Epsilon (mean values): 0.45842946

PointSourceFinite: -119.584, 45.697:
Percent Contributed: 1.51
Distance (km): 10.262971
Magnitude: 5.8294582
Epsilon (mean values): 0.062946135
Azimuth: 0
Latitude: 45.697435
Longitude: -119.584

PointSourceFinite: -119.584, 45.625:
Percent Contributed: 1.35
Distance (km): 5.2804029
Magnitude: 5.6362284
Epsilon (mean values): -0.59738412
Azimuth: 0
Latitude: 45.62549
Longitude: -119.584
noPuget_2014_fixSm.gr.in (opt):
Percent Contributed: 12.64
Distance (km): 18.805085
Magnitude: 6.157006
Epsilon (mean values): 0.45842923
PointSourceFinite: -119.584, 45.697:
Percent Contributed: 1.51
Distance (km): 10.262971
Magnitude: 5.8294582
Epsilon (mean values): 0.062946135
Azimuth: 0
Latitude: 45.697435
Longitude: -119.584
PointSourceFinite: -119.584, 45.625:
Percent Contributed: 1.35
Distance (km): 5.2804029
Magnitude: 5.6362284
Epsilon (mean values): -0.59738412
Azimuth: 0
Latitude: 45.62549
Longitude: -119.584
noPuget_2014_adSm.ch.in (opt):
Percent Contributed: 8.49
Distance (km): 18.752767
Magnitude: 6.1525249
Epsilon (mean values): 0.45292885
WUSmap_2014_adSm.ch.in (opt):
Percent Contributed: 8.47
Distance (km): 18.750241
Magnitude: 6.1524579
Epsilon (mean values): 0.452834
noPuget_2014_adSm.gr.in (opt):
Percent Contributed: 8.46
Distance (km): 18.618925
Magnitude: 6.1497297
Epsilon (mean values): 0.4480857
WUSmap_2014_adSm.gr.in (opt):
Percent Contributed: 8.45
Distance (km): 18.616627
Magnitude: 6.1496671
Epsilon (mean values): 0.44799916
WUSmap_2014_fixSm_M8.in (opt):

Percent Contributed: 3.14
Distance (km): 20.675889
Magnitude: 6.2893622
Epsilon (mean values): 0.45071684
noPuget_2014_fixSm_M8.in (opt):
Percent Contributed: 3.14
Distance (km): 20.675422
Magnitude: 6.2893564
Epsilon (mean values): 0.45070914
sub0_ch_bot.in:
Percent Contributed: 2.42
Distance (km): 308.17316
Magnitude: 9.1544734
Epsilon (mean values): 1.8331186
Cascadia Megathrust - whole CSZ Characteristic:
Percent Contributed: 2.42
Distance (km): 308.17316
Magnitude: 9.1544734
Epsilon (mean values): 1.8331186
Azimuth: 285.86185
Latitude: 46.3
Longitude: -123.4132
noPuget_2014_adSm_M8.in (opt):
Percent Contributed: 2.09
Distance (km): 20.464126
Magnitude: 6.2801059
Epsilon (mean values): 0.44046703
WUSmap_2014_adSm_M8.in (opt):
Percent Contributed: 2.09
Distance (km): 20.459271
Magnitude: 6.2799746
Epsilon (mean values): 0.44033101
PSHA Deaggregation. %contributions.
site: Test
longitude: 119.584°W
latitude: 45.612°E
imt: Peak Ground Acceleration
vs30 = 537 m/s (Site class C)
return period: 2475 yrs.
#This deaggregation corresponds to: GMM: Abrahamson, Silva & Kamai (2014)
Summary statistics for PSHA PGA deaggregation, r=distance, ε=epsilon:
Deaggregation targets:
Return period: 2475 yrs
Exceedance rate: 0.0004040404 yr⁻¹
PGA ground motion: 0.19927496 g
Recovered targets:
Return period: 2555.8899 yrs
Exceedance rate: 0.00039125316 yr⁻¹
Totals:
Binned: 26.07 %

130	7.5	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.002					
130	7.7	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.001	0.000					
130	7.9	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
110	6.9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
110	7.1	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.002					
110	7.3	0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.002	0.008					
110	7.5	0.011	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.007	0.004					
110	7.7	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.002	0.000					
110	7.9	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.001	0.000	0.000					
90	6.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
90	6.7	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.002					
90	6.9	0.011	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.001	0.010					
90	7.1	0.023	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.014	0.009					
90	7.3	0.036	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.001	0.034	0.001					
90	7.5	0.025	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.012	0.013	0.000					
90	7.7	0.005	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.005	0.000	0.000					
90	7.9	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.001	0.001	0.000	0.000					
70	6.1	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.003					
70	6.3	0.021	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.004	0.017					
70	6.5	0.036	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.020	0.017					
70	6.7	0.046	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.035	0.011					
70	6.9	0.060	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.009	0.048	0.002					
70	7.1	0.090	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.056	0.034	0.000					
70	7.3	0.126	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.007	0.114	0.005	0.000					
70	7.5	0.079	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.041	0.038	0.000	0.000					

70	7.7	0.018	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.017	0.001	0.000	0.000					
70	7.9	0.004	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.001	0.002	0.000	0.000	0.000					
50	5.1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
50	5.3	0.004	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.004					
50	5.5	0.015	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.015					
50	5.7	0.033	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.005	0.028					
50	5.9	0.057	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.031	0.026					
50	6.1	0.119	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.013	0.086	0.020					
50	6.3	0.182	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.095	0.085	0.002					
50	6.5	0.194	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.131	0.063	0.000					
50	6.7	0.177	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.015	0.119	0.043	0.000					
50	6.9	0.207	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.076	0.123	0.009	0.000					
50	7.1	0.233	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.151	0.083	0.000	0.000					
50	7.3	0.232	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.049	0.167	0.017	0.000	0.000					
50	7.5	0.136	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.067	0.069	0.000	0.000	0.000					
50	7.7	0.020	0.000	0.000	0.000	0.000	0.000	0.000	0.001
0.017	0.002	0.000	0.000	0.000					
50	7.9	0.006	0.000	0.000	0.000	0.000	0.000	0.000	0.002
0.004	0.000	0.000	0.000	0.000					
30	5.1	0.481	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.207	0.218	0.056					
30	5.3	0.519	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.300	0.178	0.041					
30	5.5	0.549	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.085	0.329	0.119	0.017					
30	5.7	0.579	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.207	0.249	0.123	0.000					
30	5.9	0.603	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.016	0.324	0.207	0.056	0.000					
30	6.1	0.710	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.141	0.347	0.212	0.010	0.000					
30	6.3	0.821	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.388	0.339	0.094	0.000	0.000					
30	6.5	0.656	0.000	0.000	0.000	0.000	0.000	0.000	0.042
0.285	0.290	0.038	0.000	0.000					

30	6.7	0.555	0.000	0.000	0.000	0.000	0.000	0.000	0.051
0.266	0.216	0.021	0.000	0.000					
30	6.9	0.575	0.000	0.000	0.000	0.000	0.000	0.000	0.136
0.290	0.150	0.000	0.000	0.000					
30	7.1	0.582	0.000	0.000	0.000	0.000	0.000	0.002	0.255
0.279	0.047	0.000	0.000	0.000					
30	7.3	0.591	0.000	0.000	0.000	0.000	0.000	0.055	0.309
0.227	0.000	0.000	0.000	0.000					
30	7.5	0.314	0.000	0.000	0.000	0.000	0.000	0.060	0.180
0.074	0.000	0.000	0.000	0.000					
30	7.7	0.032	0.000	0.000	0.000	0.000	0.000	0.010	0.021
0.001	0.000	0.000	0.000	0.000					
30	7.9	0.007	0.000	0.000	0.000	0.000	0.000	0.004	0.003
0.000	0.000	0.000	0.000	0.000					
10	5.1	2.664	0.000	0.000	0.000	0.000	0.000	0.685	0.331
0.701	0.788	0.159	0.000	0.000					
10	5.3	2.215	0.000	0.000	0.000	0.000	0.000	0.518	0.315
0.758	0.594	0.031	0.000	0.000					
10	5.5	1.837	0.000	0.000	0.000	0.000	0.000	0.389	0.524
0.557	0.367	0.000	0.000	0.000					
10	5.7	1.513	0.000	0.000	0.000	0.000	0.242	0.190	0.419
0.517	0.145	0.000	0.000	0.000					
10	5.9	1.235	0.000	0.000	0.000	0.000	0.220	0.108	0.479
0.407	0.021	0.000	0.000	0.000					
10	6.1	1.502	0.000	0.000	0.000	0.056	0.224	0.463	0.482
0.276	0.000	0.000	0.000	0.000					
10	6.3	1.269	0.000	0.000	0.000	0.118	0.277	0.412	0.401
0.060	0.000	0.000	0.000	0.000					
10	6.5	1.100	0.000	0.000	0.027	0.110	0.243	0.358	0.312
0.051	0.000	0.000	0.000	0.000					
10	6.7	0.919	0.000	0.000	0.041	0.093	0.234	0.274	0.259
0.018	0.000	0.000	0.000	0.000					
10	6.9	0.758	0.000	0.000	0.029	0.101	0.207	0.266	0.155
0.000	0.000	0.000	0.000	0.000					
10	7.1	0.595	0.000	0.000	0.030	0.066	0.184	0.286	0.029
0.000	0.000	0.000	0.000	0.000					
10	7.3	0.448	0.000	0.000	0.021	0.065	0.159	0.199	0.004
0.000	0.000	0.000	0.000	0.000					
10	7.5	0.190	0.000	0.000	0.009	0.035	0.072	0.074	0.000
0.000	0.000	0.000	0.000	0.000					
10	7.7	0.015	0.000	0.000	0.001	0.004	0.008	0.003	0.000
0.000	0.000	0.000	0.000	0.000					
10	7.9	0.003	0.000	0.000	0.000	0.001	0.002	0.000	0.000
0.000	0.000	0.000	0.000	0.000					

Principal Sources (faults, subduction, random seismicity having > 3% contribution
WUSmap_2014_fixSm.ch.in (opt):

Percent Contributed: 3.46

Distance (km): 19.538868

Magnitude: 6.0834412

Epsilon (mean values): 0.58992472

noPuget_2014_fixSm.ch.in (opt):
Percent Contributed: 3.46
Distance (km): 19.538856
Magnitude: 6.083441
Epsilon (mean values): 0.58992447
WUSmap_2014_fixSm.gr.in (opt):
Percent Contributed: 3.44
Distance (km): 19.37709
Magnitude: 6.0797654
Epsilon (mean values): 0.58473977
noPuget_2014_fixSm.gr.in (opt):
Percent Contributed: 3.44
Distance (km): 19.377078
Magnitude: 6.0797653
Epsilon (mean values): 0.58473952
noPuget_2014_adSm.ch.in (opt):
Percent Contributed: 2.31
Distance (km): 19.328438
Magnitude: 6.0758987
Epsilon (mean values): 0.57909238
WUSmap_2014_adSm.ch.in (opt):
Percent Contributed: 2.31
Distance (km): 19.325717
Magnitude: 6.0758262
Epsilon (mean values): 0.57899843
noPuget_2014_adSm.gr.in (opt):
Percent Contributed: 2.3
Distance (km): 19.187939
Magnitude: 6.0726712
Epsilon (mean values): 0.57453893
WUSmap_2014_adSm.gr.in (opt):
Percent Contributed: 2.3
Distance (km): 19.18546
Magnitude: 6.0726039
Epsilon (mean values): 0.5744529

PSHA Deaggregation. %contributions.

site: Test

longitude: 119.584°W

latitude: 45.612°E

imt: Peak Ground Acceleration

vs30 = 537 m/s (Site class C)

return period: 2475 yrs.

#This deaggregation corresponds to: GMM: Boore, Stewart, Seyhan & Atkinson (2014)

Summary statistics for PSHA PGA deaggregation, r=distance, ϵ =epsilon:

Deaggregation targets:

Return period: 2475 yrs

Exceedance rate: 0.0004040404 yr⁻¹

PGA ground motion: 0.19927496 g

Recovered targets:

Return period: 2555.8899 yrs

0.305	0.212	0.000	0.000	0.000					
30	6.9	0.638	0.000	0.000	0.000	0.000	0.000	0.022	0.180
0.302	0.134	0.000	0.000	0.000					
30	7.1	0.624	0.000	0.000	0.000	0.000	0.000	0.056	0.262
0.277	0.029	0.000	0.000	0.000					
30	7.3	0.614	0.000	0.000	0.000	0.000	0.000	0.068	0.333
0.213	0.000	0.000	0.000	0.000					
30	7.5	0.319	0.000	0.000	0.000	0.000	0.000	0.075	0.179
0.065	0.000	0.000	0.000	0.000					
30	7.7	0.032	0.000	0.000	0.000	0.000	0.000	0.011	0.019
0.002	0.000	0.000	0.000	0.000					
30	7.9	0.007	0.000	0.000	0.000	0.000	0.000	0.003	0.003
0.000	0.000	0.000	0.000	0.000					
10	5.1	1.753	0.000	0.000	0.000	0.000	0.000	0.446	0.220
0.354	0.404	0.291	0.038	0.000					
10	5.3	2.253	0.000	0.000	0.000	0.000	0.412	0.213	0.436
0.594	0.517	0.080	0.000	0.000					
10	5.5	2.593	0.000	0.000	0.000	0.517	0.001	0.354	0.785
0.779	0.156	0.000	0.000	0.000					
10	5.7	2.069	0.000	0.000	0.000	0.368	0.042	0.512	0.563
0.563	0.020	0.000	0.000	0.000					
10	5.9	1.551	0.000	0.000	0.000	0.257	0.192	0.330	0.473
0.299	0.000	0.000	0.000	0.000					
10	6.1	1.734	0.000	0.000	0.000	0.282	0.362	0.439	0.429
0.222	0.000	0.000	0.000	0.000					
10	6.3	1.355	0.000	0.000	0.000	0.238	0.287	0.456	0.313
0.060	0.000	0.000	0.000	0.000					
10	6.5	1.158	0.000	0.000	0.029	0.137	0.310	0.352	0.288
0.042	0.000	0.000	0.000	0.000					
10	6.7	0.966	0.000	0.000	0.039	0.077	0.329	0.284	0.237
0.000	0.000	0.000	0.000	0.000					
10	6.9	0.778	0.000	0.000	0.043	0.091	0.258	0.266	0.119
0.000	0.000	0.000	0.000	0.000					
10	7.1	0.605	0.000	0.000	0.030	0.085	0.187	0.279	0.024
0.000	0.000	0.000	0.000	0.000					
10	7.3	0.452	0.000	0.000	0.021	0.072	0.156	0.200	0.004
0.000	0.000	0.000	0.000	0.000					
10	7.5	0.191	0.000	0.000	0.008	0.035	0.081	0.065	0.000
0.000	0.000	0.000	0.000	0.000					
10	7.7	0.015	0.000	0.000	0.001	0.004	0.007	0.003	0.000
0.000	0.000	0.000	0.000	0.000					
10	7.9	0.003	0.000	0.000	0.000	0.001	0.002	0.000	0.000
0.000	0.000	0.000	0.000	0.000					

Principal Sources (faults, subduction, random seismicity having > 3% contribution

WUSmap_2014_fixSm.ch.in (opt):

Percent Contributed: 3.7

Distance (km): 19.305751

Magnitude: 6.1063554

Epsilon (mean values): 0.42374326

noPuget_2014_fixSm.ch.in (opt):

Percent Contributed: 3.7
Distance (km): 19.305746
Magnitude: 6.1063553
Epsilon (mean values): 0.42374315

WUSmap_2014_fixSm.gr.in (opt):

Percent Contributed: 3.69
Distance (km): 19.147864
Magnitude: 6.1029518
Epsilon (mean values): 0.41798266

noPuget_2014_fixSm.gr.in (opt):

Percent Contributed: 3.69
Distance (km): 19.14786
Magnitude: 6.1029518
Epsilon (mean values): 0.41798255

noPuget_2014_adSm.ch.in (opt):

Percent Contributed: 2.48
Distance (km): 19.088134
Magnitude: 6.0988992
Epsilon (mean values): 0.41060348

WUSmap_2014_adSm.ch.in (opt):

Percent Contributed: 2.47
Distance (km): 19.085726
Magnitude: 6.098835
Epsilon (mean values): 0.41050187

noPuget_2014_adSm.gr.in (opt):

Percent Contributed: 2.47
Distance (km): 18.950123
Magnitude: 6.0958947
Epsilon (mean values): 0.4055161

WUSmap_2014_adSm.gr.in (opt):

Percent Contributed: 2.46
Distance (km): 18.947953
Magnitude: 6.0958355
Epsilon (mean values): 0.40542327

PSHA Deaggregation. %contributions.

site: Test

longitude: 119.584°W

latitude: 45.612°E

imt: Peak Ground Acceleration

vs30 = 537 m/s (Site class C)

return period: 2475 yrs.

#This deaggregation corresponds to: GMM: Campbell & Bozorgnia (2014)

Summary statistics for PSHA PGA deaggregation, r=distance, ε=epsilon:

Deaggregation targets:

Return period: 2475 yrs
Exceedance rate: 0.0004040404 yr⁻¹
PGA ground motion: 0.19927496 g

Recovered targets:

Return period: 2555.8899 yrs
Exceedance rate: 0.00039125316 yr⁻¹

Totals:

Binned: 19.37 %
 Residual: 0 %
 Trace: 0.1 %

Mean (over all sources):

m: 6.29
 r: 18.54 km
 ϵ_0 : 0.42 σ

Mode (largest m-r bin):

m: 6.1
 r: 11.74 km
 ϵ_0 : -0.08 σ
 Contribution: 1.5 %

Mode (largest m-r- ϵ_0 bin):

m: 5.5
 r: 11.4 km
 ϵ_0 : 0.72 σ
 Contribution: 0.46 %

Discretization:

r: min = 0.0, max = 1000.0, Δ = 20.0 km
 m: min = 4.4, max = 9.4, Δ = 0.2
 ϵ : min = -3.0, max = 3.0, Δ = 0.5 σ

Epsilon keys:

ϵ_0 : [- ∞ .. -2.5)
 ϵ_1 : [-2.5 .. -2.0)
 ϵ_2 : [-2.0 .. -1.5)
 ϵ_3 : [-1.5 .. -1.0)
 ϵ_4 : [-1.0 .. -0.5)
 ϵ_5 : [-0.5 .. 0.0)
 ϵ_6 : [0.0 .. 0.5)
 ϵ_7 : [0.5 .. 1.0)
 ϵ_8 : [1.0 .. 1.5)
 ϵ_9 : [1.5 .. 2.0)
 ϵ_{10} : [2.0 .. 2.5)
 ϵ_{11} : [2.5 .. + ∞)

Closest Distance, rRup (km)				Magnitude (Mw)		ALL_ ϵ	$\epsilon=(-\infty, -2.5)$	$\epsilon=[-2.5, -2)$	
$\epsilon=[-2, -1.5)$	$\epsilon=[-1.5, -1)$	$\epsilon=[-1, -0.5)$	$\epsilon=[-0.5, 0)$	$\epsilon=[0, 0.5)$	$\epsilon=[0.5, 1)$	$\epsilon=[1, 1.5)$	$\epsilon=[1.5, 2)$	$\epsilon=[2, 2.5)$	$\epsilon=[2.5, \infty)$
150	7.9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130	7.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130	7.7	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130	7.9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110	7.1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110	7.3	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000

110	7.5	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.002					
110	7.7	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
110	7.9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
90	6.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
90	6.7	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.001					
90	6.9	0.005	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.005					
90	7.1	0.012	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.003	0.009					
90	7.3	0.018	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.014	0.005					
90	7.5	0.012	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.011	0.001					
90	7.7	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.001	0.001	0.000					
90	7.9	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.001	0.000	0.000					
70	6.1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
70	6.3	0.006	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.006					
70	6.5	0.024	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.007	0.017					
70	6.7	0.035	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.022	0.013					
70	6.9	0.042	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.037	0.005					
70	7.1	0.061	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.015	0.046	0.000					
70	7.3	0.079	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.056	0.023	0.000					
70	7.5	0.047	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.043	0.004	0.000					
70	7.7	0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.005	0.005	0.000	0.000					
70	7.9	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.002	0.001	0.000	0.000					
50	5.7	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
50	5.9	0.005	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.005					
50	6.1	0.041	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.024	0.016					
50	6.3	0.102	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.024	0.066	0.012					

50	6.5	0.152	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.085	0.067	0.000					
50	6.7	0.145	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.096	0.049	0.000					
50	6.9	0.156	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.021	0.108	0.027	0.000					
50	7.1	0.165	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.068	0.097	0.000	0.000					
50	7.3	0.152	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.095	0.057	0.000	0.000					
50	7.5	0.085	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.006	0.064	0.016	0.000	0.000					
50	7.7	0.012	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.005	0.007	0.000	0.000	0.000					
50	7.9	0.004	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.002	0.002	0.000	0.000	0.000					
30	5.1	0.020	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.004	0.016					
30	5.3	0.062	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.042	0.020					
30	5.5	0.143	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.053	0.078	0.013					
30	5.7	0.223	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.014	0.133	0.060	0.016					
30	5.9	0.313	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.103	0.148	0.054	0.008					
30	6.1	0.493	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.053	0.254	0.146	0.040	0.000					
30	6.3	0.694	0.000	0.000	0.000	0.000	0.000	0.000	0.014
0.319	0.221	0.136	0.003	0.000					
30	6.5	0.666	0.000	0.000	0.000	0.000	0.000	0.000	0.087
0.287	0.236	0.055	0.000	0.000					
30	6.7	0.567	0.000	0.000	0.000	0.000	0.000	0.000	0.104
0.244	0.193	0.025	0.000	0.000					
30	6.9	0.544	0.000	0.000	0.000	0.000	0.000	0.000	0.143
0.244	0.157	0.000	0.000	0.000					
30	7.1	0.524	0.000	0.000	0.000	0.000	0.000	0.019	0.204
0.210	0.092	0.000	0.000	0.000					
30	7.3	0.507	0.000	0.000	0.000	0.000	0.000	0.039	0.227
0.205	0.036	0.000	0.000	0.000					
30	7.5	0.260	0.000	0.000	0.000	0.000	0.000	0.020	0.129
0.111	0.000	0.000	0.000	0.000					
30	7.7	0.026	0.000	0.000	0.000	0.000	0.000	0.005	0.012
0.009	0.000	0.000	0.000	0.000					
30	7.9	0.006	0.000	0.000	0.000	0.000	0.000	0.001	0.003
0.001	0.000	0.000	0.000	0.000					
10	5.1	0.886	0.000	0.000	0.000	0.000	0.000	0.000	0.064
0.306	0.257	0.173	0.082	0.003					
10	5.3	1.141	0.000	0.000	0.000	0.000	0.000	0.000	0.365
0.288	0.282	0.184	0.022	0.000					

10	5.5	1.380	0.000	0.000	0.000	0.000	0.000	0.358	0.186
0.460	0.304	0.073	0.000	0.000					
10	5.7	1.268	0.000	0.000	0.000	0.000	0.132	0.214	0.325
0.367	0.218	0.012	0.000	0.000					
10	5.9	1.114	0.000	0.000	0.000	0.000	0.216	0.107	0.382
0.324	0.086	0.000	0.000	0.000					
10	6.1	1.499	0.000	0.000	0.000	0.077	0.299	0.432	0.422
0.256	0.012	0.000	0.000	0.000					
10	6.3	1.342	0.000	0.000	0.000	0.176	0.350	0.410	0.356
0.050	0.000	0.000	0.000	0.000					
10	6.5	1.230	0.000	0.000	0.041	0.242	0.330	0.319	0.299
0.000	0.000	0.000	0.000	0.000					
10	6.7	1.012	0.000	0.000	0.063	0.177	0.292	0.263	0.217
0.000	0.000	0.000	0.000	0.000					
10	6.9	0.802	0.000	0.000	0.044	0.135	0.253	0.261	0.109
0.000	0.000	0.000	0.000	0.000					
10	7.1	0.613	0.000	0.000	0.049	0.094	0.191	0.247	0.033
0.000	0.000	0.000	0.000	0.000					
10	7.3	0.451	0.000	0.000	0.034	0.079	0.150	0.172	0.017
0.000	0.000	0.000	0.000	0.000					
10	7.5	0.188	0.000	0.003	0.011	0.038	0.064	0.070	0.002
0.000	0.000	0.000	0.000	0.000					
10	7.7	0.015	0.000	0.000	0.001	0.004	0.005	0.004	0.000
0.000	0.000	0.000	0.000	0.000					
10	7.9	0.003	0.000	0.000	0.000	0.001	0.001	0.001	0.000
0.000	0.000	0.000	0.000	0.000					

Principal Sources (faults, subduction, random seismicity having > 3% contribution

WUSmap_2014_fixSm.ch.in (opt):

Percent Contributed: 2.57
Distance (km): 18.245028
Magnitude: 6.2747441
Epsilon (mean values): 0.4215765

noPuget_2014_fixSm.ch.in (opt):

Percent Contributed: 2.57
Distance (km): 18.245026
Magnitude: 6.2747441
Epsilon (mean values): 0.42157645

WUSmap_2014_fixSm.gr.in (opt):

Percent Contributed: 2.56
Distance (km): 18.091607
Magnitude: 6.2721441
Epsilon (mean values): 0.41547166

noPuget_2014_fixSm.gr.in (opt):

Percent Contributed: 2.56
Distance (km): 18.091605
Magnitude: 6.2721441
Epsilon (mean values): 0.41547161

noPuget_2014_adSm.ch.in (opt):

Percent Contributed: 1.72
Distance (km): 18.037732

Magnitude: 6.2672409
Epsilon (mean values): 0.41086283
WUSmap_2014_adSm.ch.in (opt):
Percent Contributed: 1.71
Distance (km): 18.035474
Magnitude: 6.2671841
Epsilon (mean values): 0.41076948
noPuget_2014_adSm.gr.in (opt):
Percent Contributed: 1.71
Distance (km): 17.903564
Magnitude: 6.2649444
Epsilon (mean values): 0.40547513
WUSmap_2014_adSm.gr.in (opt):
Percent Contributed: 1.71
Distance (km): 17.901535
Magnitude: 6.2648913
Epsilon (mean values): 0.40539101
PSHA Deaggregation. %contributions.
site: Test
longitude: 119.584°W
latitude: 45.612°E
imt: Peak Ground Acceleration
vs30 = 537 m/s (Site class C)
return period: 2475 yrs.
#This deaggregation corresponds to: GMM: Chiou & Youngs (2014)
Summary statistics for PSHA PGA deaggregation, r=distance, ϵ =epsilon:
Deaggregation targets:
Return period: 2475 yrs
Exceedance rate: 0.0004040404 yr⁻¹
PGA ground motion: 0.19927496 g
Recovered targets:
Return period: 2555.8899 yrs
Exceedance rate: 0.00039125316 yr⁻¹
Totals:
Binned: 22.48 %
Residual: 0 %
Trace: 0.15 %
Mean (over all sources):
m: 6.24
r: 18.98 km
 ϵ_0 : 0.41 σ
Mode (largest m-r bin):
m: 5.1
r: 9.89 km
 ϵ_0 : 0.88 σ
Contribution: 1.7 %
Mode (largest m-r- ϵ_0 bin):
m: 5.1
r: 5.15 km
 ϵ_0 : 0.15 σ

0.000	0.036	0.099	0.024	0.000					
50	7.1	0.222	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.008	0.128	0.084	0.001	0.000					
50	7.3	0.249	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.091	0.140	0.018	0.000	0.000					
50	7.5	0.154	0.000	0.000	0.000	0.000	0.000	0.000	0.006
0.099	0.050	0.000	0.000	0.000					
50	7.7	0.024	0.000	0.000	0.000	0.000	0.000	0.000	0.008
0.014	0.001	0.000	0.000	0.000					
50	7.9	0.007	0.000	0.000	0.000	0.000	0.000	0.000	0.005
0.002	0.000	0.000	0.000	0.000					
30	5.1	0.121	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.087	0.034					
30	5.3	0.199	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.063	0.115	0.021					
30	5.5	0.272	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.149	0.098	0.025					
30	5.7	0.336	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.045	0.203	0.072	0.015					
30	5.9	0.392	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.163	0.155	0.071	0.003					
30	6.1	0.518	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.051	0.280	0.153	0.034	0.000					
30	6.3	0.635	0.000	0.000	0.000	0.000	0.000	0.000	0.015
0.293	0.193	0.125	0.009	0.000					
30	6.5	0.547	0.000	0.000	0.000	0.000	0.000	0.000	0.048
0.212	0.206	0.081	0.000	0.000					
30	6.7	0.522	0.000	0.000	0.000	0.000	0.000	0.000	0.111
0.198	0.161	0.051	0.000	0.000					
30	6.9	0.609	0.000	0.000	0.000	0.000	0.000	0.047	0.192
0.231	0.136	0.004	0.000	0.000					
30	7.1	0.677	0.000	0.000	0.000	0.000	0.000	0.130	0.275
0.236	0.036	0.000	0.000	0.000					
30	7.3	0.718	0.000	0.000	0.000	0.000	0.037	0.239	0.287
0.150	0.005	0.000	0.000	0.000					
30	7.5	0.386	0.000	0.000	0.000	0.000	0.030	0.158	0.167
0.031	0.000	0.000	0.000	0.000					
30	7.7	0.040	0.000	0.000	0.000	0.000	0.008	0.018	0.013
0.001	0.000	0.000	0.000	0.000					
30	7.9	0.009	0.000	0.000	0.000	0.000	0.002	0.005	0.001
0.000	0.000	0.000	0.000	0.000					
10	5.1	1.704	0.000	0.000	0.000	0.000	0.000	0.000	0.541
0.349	0.486	0.306	0.023	0.000					
10	5.3	1.700	0.000	0.000	0.000	0.000	0.000	0.382	0.255
0.481	0.463	0.118	0.000	0.000					
10	5.5	1.568	0.000	0.000	0.000	0.000	0.000	0.367	0.292
0.489	0.384	0.036	0.000	0.000					
10	5.7	1.377	0.000	0.000	0.000	0.000	0.141	0.240	0.416
0.369	0.210	0.000	0.000	0.000					
10	5.9	1.181	0.000	0.000	0.000	0.000	0.214	0.154	0.384

0.364	0.066	0.000	0.000	0.000					
10	6.1	1.526	0.000	0.000	0.000	0.051	0.343	0.417	0.454
0.261	0.000	0.000	0.000	0.000					
10	6.3	1.320	0.000	0.000	0.000	0.153	0.299	0.471	0.332
0.065	0.000	0.000	0.000	0.000					
10	6.5	1.180	0.000	0.000	0.041	0.195	0.317	0.316	0.261
0.048	0.000	0.000	0.000	0.000					
10	6.7	1.005	0.000	0.021	0.062	0.147	0.309	0.250	0.208
0.009	0.000	0.000	0.000	0.000					
10	6.9	0.847	0.000	0.022	0.050	0.176	0.261	0.267	0.071
0.000	0.000	0.000	0.000	0.000					
10	7.1	0.677	0.000	0.025	0.055	0.170	0.249	0.172	0.005
0.000	0.000	0.000	0.000	0.000					
10	7.3	0.512	0.000	0.022	0.051	0.158	0.210	0.071	0.000
0.000	0.000	0.000	0.000	0.000					
10	7.5	0.216	0.000	0.012	0.033	0.074	0.083	0.015	0.000
0.000	0.000	0.000	0.000	0.000					
10	7.7	0.017	0.000	0.001	0.004	0.007	0.005	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
10	7.9	0.003	0.000	0.000	0.001	0.002	0.001	0.000	0.000
0.000	0.000	0.000	0.000	0.000					

Principal Sources (faults, subduction, random seismicity having > 3% contribution

WUSmap_2014_fixSm.ch.in (opt):

Percent Contributed: 2.96

Distance (km): 18.467772

Magnitude: 6.2176988

Epsilon (mean values): 0.40391224

noPuget_2014_fixSm.ch.in (opt):

Percent Contributed: 2.96

Distance (km): 18.467747

Magnitude: 6.2176985

Epsilon (mean values): 0.40391172

WUSmap_2014_fixSm.gr.in (opt):

Percent Contributed: 2.95

Distance (km): 18.32831

Magnitude: 6.2148224

Epsilon (mean values): 0.39891647

noPuget_2014_fixSm.gr.in (opt):

Percent Contributed: 2.95

Distance (km): 18.328285

Magnitude: 6.2148221

Epsilon (mean values): 0.39891594

noPuget_2014_adSm.ch.in (opt):

Percent Contributed: 1.98

Distance (km): 18.282603

Magnitude: 6.2094113

Epsilon (mean values): 0.39520409

WUSmap_2014_adSm.ch.in (opt):

Percent Contributed: 1.98

Distance (km): 18.279932

Magnitude: 6.2093375
Epsilon (mean values): 0.39511634
noPuget_2014_adSm.gr.in (opt):
Percent Contributed: 1.98
Distance (km): 18.162368
Magnitude: 6.2068985
Epsilon (mean values): 0.39084271
WUSmap_2014_adSm.gr.in (opt):
Percent Contributed: 1.98
Distance (km): 18.159894
Magnitude: 6.2068285
Epsilon (mean values): 0.39076225
PSHA Deaggregation. %contributions.
site: Test
longitude: 119.584°W
latitude: 45.612°E
imt: Peak Ground Acceleration
vs30 = 537 m/s (Site class C)
return period: 2475 yrs.
#This deaggregation corresponds to: GMM: Atkinson & Macias (2009) : Interface
Summary statistics for PSHA PGA deaggregation, r=distance, ϵ =epsilon:
Deaggregation targets:
Return period: 2475 yrs
Exceedance rate: 0.0004040404 yr⁻¹
PGA ground motion: 0.19927496 g
Recovered targets:
Return period: 2555.8899 yrs
Exceedance rate: 0.00039125316 yr⁻¹
Totals:
Binned: 0 %
Residual: 0 %
Trace: 0 %
Mean (over all sources):
m: null
r: null km
 ϵ_0 : null σ
Mode (largest m-r bin):
m: null
r: null km
 ϵ_0 : null σ
Contribution: 0 %
Mode (largest m-r- ϵ_0 bin):
m: null
r: null km
 ϵ_0 : null σ
Contribution: 0 %
Discretization:
r: min = 0.0, max = 1000.0, Δ = 20.0 km
m: min = 4.4, max = 9.4, Δ = 0.2
 ϵ : min = -3.0, max = 3.0, Δ = 0.5 σ

Epsilon keys:

ϵ_0 : $[-\infty \dots -2.5)$
 ϵ_1 : $[-2.5 \dots -2.0)$
 ϵ_2 : $[-2.0 \dots -1.5)$
 ϵ_3 : $[-1.5 \dots -1.0)$
 ϵ_4 : $[-1.0 \dots -0.5)$
 ϵ_5 : $[-0.5 \dots 0.0)$
 ϵ_6 : $[0.0 \dots 0.5)$
 ϵ_7 : $[0.5 \dots 1.0)$
 ϵ_8 : $[1.0 \dots 1.5)$
 ϵ_9 : $[1.5 \dots 2.0)$
 ϵ_{10} : $[2.0 \dots 2.5)$
 ϵ_{11} : $[2.5 \dots +\infty]$

Closest Distance, rRup (km)	Magnitude (Mw)	ALL_ε	ε=(-∞, -2.5)	ε=[-2.5, -2)
ε=[-2, -1.5)	ε=[-1.5, -1)	ε=[-1, -0.5)	ε=[-0.5, 0)	ε=[0, 0.5)
ε=[0.5, 1)	ε=[1, 1.5)	ε=[1.5, 2)	ε=[2, 2.5)	ε=[2.5, ∞)

Principal Sources (faults, subduction, random seismicity having > 3% contribution PSHA Deaggregation. %contributions.

site: Test

longitude: 119.584°W

latitude: 45.612°E

imt: Peak Ground Acceleration

vs30 = 537 m/s (Site class C)

return period: 2475 yrs.

#This deaggregation corresponds to: GMM: BC Hydro (2012) : Interface

Summary statistics for PSHA PGA deaggregation, r=distance, ε=epsilon:

Deaggregation targets:

Return period: 2475 yrs

Exceedance rate: 0.0004040404 yr⁻¹

PGA ground motion: 0.19927496 g

Recovered targets:

Return period: 2555.8899 yrs

Exceedance rate: 0.00039125316 yr⁻¹

Totals:

Binned: 3.28 %

Residual: 0 %

Trace: 0.03 %

Mean (over all sources):

m: 9.02

r: 329.82 km

ε₀: 1.96 σ

Mode (largest m-r bin):

m: 9.34

r: 308.17 km

ε₀: 1.59 σ

Contribution: 0.88 %

Mode (largest m-r-ε₀ bin):

m: 9.34

r: 308.17 km

ϵ_0 : 1.59 σ

Contribution: 0.88 %

Discretization:

r: min = 0.0, max = 1000.0, Δ = 20.0 km

m: min = 4.4, max = 9.4, Δ = 0.2

ϵ : min = -3.0, max = 3.0, Δ = 0.5 σ

Epsilon keys:

ϵ_0 : $[-\infty \dots -2.5)$

ϵ_1 : $[-2.5 \dots -2.0)$

ϵ_2 : $[-2.0 \dots -1.5)$

ϵ_3 : $[-1.5 \dots -1.0)$

ϵ_4 : $[-1.0 \dots -0.5)$

ϵ_5 : $[-0.5 \dots 0.0)$

ϵ_6 : $[0.0 \dots 0.5)$

ϵ_7 : $[0.5 \dots 1.0)$

ϵ_8 : $[1.0 \dots 1.5)$

ϵ_9 : $[1.5 \dots 2.0)$

ϵ_{10} : $[2.0 \dots 2.5)$

ϵ_{11} : $[2.5 \dots +\infty)$

Closest Distance, rRup (km)		Magnitude (Mw)		ALL_ ϵ	$\epsilon=(-\infty, -2.5)$	$\epsilon=[-2.5, -2)$			
$\epsilon=[-2, -1.5)$	$\epsilon=[-1.5, -1)$	$\epsilon=[-1, -0.5)$	$\epsilon=[-0.5, 0)$	$\epsilon=[-0.5, 0)$	$\epsilon=[0, 0.5)$				
$\epsilon=[0.5, 1)$	$\epsilon=[1, 1.5)$	$\epsilon=[1.5, 2)$	$\epsilon=[2, 2.5)$	$\epsilon=[2, 2.5)$	$\epsilon=[2.5, \infty)$				
430	8.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
410	8.3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
410	8.5	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.001					
390	8.1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
390	8.3	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.001					
390	8.5	0.005	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.005					
390	8.7	0.090	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.090					
390	9.1	0.109	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.109	0.000					
370	7.9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
370	8.1	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.002					
370	8.3	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.003					
370	8.5	0.043	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.006	0.037					
370	8.7	0.221	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.221	0.000					
370	8.9	0.249	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.249	0.000					

370	9.1	0.481	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.481	0.000					
350	7.9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
350	8.1	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.001					
350	8.3	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.001					
350	8.5	0.004	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.003	0.001					
330	7.9	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.001					
330	8.1	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.002					
330	8.3	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.001	0.001					
330	8.5	0.025	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.025	0.000					
330	8.7	0.026	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.026	0.000					
330	8.9	0.039	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.039	0.000					
310	7.9	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.002					
310	8.1	0.007	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.004	0.004					
310	8.3	0.005	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.005	0.000					
310	8.5	0.044	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.044	0.000					
310	8.7	0.071	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.071	0.000					
310	8.9	0.418	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.418	0.000	0.000					
310	9.1	0.549	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.549	0.000	0.000					
310	9.3	0.881	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.881	0.000	0.000					

Principal Sources (faults, subduction, random seismicity having > 3% contribution
sub0_ch_bot.in:

Percent Contributed: 1.79
Distance (km): 308.17316
Magnitude: 9.1377985
Epsilon (mean values): 1.7407818

Cascadia Megathrust - whole CSZ Characteristic:

Percent Contributed: 1.79
Distance (km): 308.17316
Magnitude: 9.1377985
Epsilon (mean values): 1.7407818
Azimuth: 285.86185

Latitude: 46.3
Longitude: -123.4132
PSHA Deaggregation. %contributions.
site: Test
longitude: 119.584°W
latitude: 45.612°E
imt: Peak Ground Acceleration
vs30 = 537 m/s (Site class C)
return period: 2475 yrs.
#This deaggregation corresponds to: GMM: BC Hydro (2012) : Slab
Summary statistics for PSHA PGA deaggregation, r=distance, ϵ =epsilon:
Deaggregation targets:
Return period: 2475 yrs
Exceedance rate: 0.0004040404 yr⁻¹
PGA ground motion: 0.19927496 g
Recovered targets:
Return period: 2555.8899 yrs
Exceedance rate: 0.00039125316 yr⁻¹
Totals:
Binned: 0.18 %
Residual: 0 %
Trace: 0.07 %
Mean (over all sources):
m: 7.3
r: 230.04 km
 ϵ_0 : 2.22 σ
Mode (largest m-r bin):
m: 7.12
r: 229.59 km
 ϵ_0 : 2.52 σ
Contribution: 0.02 %
Mode (largest m-r- ϵ_0 bin):
m: 7.12
r: 211.03 km
 ϵ_0 : 2.29 σ
Contribution: 0.02 %
Discretization:
r: min = 0.0, max = 1000.0, Δ = 20.0 km
m: min = 4.4, max = 9.4, Δ = 0.2
 ϵ : min = -3.0, max = 3.0, Δ = 0.5 σ
Epsilon keys:
 ϵ_0 : [- ∞ .. -2.5)
 ϵ_1 : [-2.5 .. -2.0)
 ϵ_2 : [-2.0 .. -1.5)
 ϵ_3 : [-1.5 .. -1.0)
 ϵ_4 : [-1.0 .. -0.5)
 ϵ_5 : [-0.5 .. 0.0)
 ϵ_6 : [0.0 .. 0.5)
 ϵ_7 : [0.5 .. 1.0)
 ϵ_8 : [1.0 .. 1.5)

ϵ_9 : [1.5 .. 2.0)
 ϵ_{10} : [2.0 .. 2.5)
 ϵ_{11} : [2.5 .. $+\infty$)

Closest Distance, rRup (km)				Magnitude (Mw)		ALL_ε	ε=(-∞, -2.5)	ε=[-2.5, -2)	
ε=[-2, -1.5)		ε=[-1.5, -1)		ε=[-1, -0.5)		ε=[-0.5, 0)	ε=[0, 0.5)		
ε=[0.5, 1)		ε=[1, 1.5)		ε=[1.5, 2)		ε=[2, 2.5)	ε=[2.5, ∞)		
290	7.1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
290	7.3	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.001					
290	7.5	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.001	0.001					
270	7.1	0.004	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.004					
270	7.3	0.006	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.001	0.005					
270	7.5	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.007	0.001					
270	7.7	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.001	0.000					
270	7.9	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
250	6.9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
250	7.1	0.016	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.016					
250	7.3	0.009	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.006	0.002					
250	7.5	0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.002	0.009	0.000					
250	7.7	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.002	0.001	0.000					
250	7.9	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.003	0.000	0.000					
230	6.9	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.003					
230	7.1	0.024	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.011	0.013					
230	7.3	0.009	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.001	0.008	0.000					
230	7.5	0.009	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.008	0.001	0.000					
230	7.7	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.002	0.000	0.000					
230	7.9	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.001	0.002	0.000	0.000					
210	6.7	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
210	6.9	0.004	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.004					

90	7.3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
90	7.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
90	7.7	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
90	7.9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Principal Sources (faults, subduction, random seismicity having > 3% contribution PSHA Deaggregation. %contributions.

site: Test

longitude: 119.584°W

latitude: 45.612°E

imt: Peak Ground Acceleration

vs30 = 537 m/s (Site class C)

return period: 2475 yrs.

#This deaggregation corresponds to: GMM: Zhao et al. (2006) : Interface

Summary statistics for PSHA PGA deaggregation, r=distance, ϵ =epsilon:

Deaggregation targets:

Return period: 2475 yrs

Exceedance rate: 0.0004040404 yr⁻¹

PGA ground motion: 0.19927496 g

Recovered targets:

Return period: 2555.8899 yrs

Exceedance rate: 0.00039125316 yr⁻¹

Totals:

Binned: 0.7 %

Residual: 0 %

Trace: 0 %

Mean (over all sources):

m: 9.18

r: 311.37 km

ϵ_0 : 2.15 σ

Mode (largest m-r bin):

m: 9.34

r: 308.17 km

ϵ_0 : 1.94 σ

Contribution: 0.4 %

Mode (largest m-r- ϵ_0 bin):

m: 9.34

r: 308.17 km

ϵ_0 : 1.94 σ

Contribution: 0.4 %

Discretization:

r: min = 0.0, max = 1000.0, Δ = 20.0 km

m: min = 4.4, max = 9.4, Δ = 0.2

ϵ : min = -3.0, max = 3.0, Δ = 0.5 σ

Epsilon keys:

ϵ_0 : [- ∞ .. -2.5)

ϵ_1 : [-2.5 .. -2.0)

ε2: [-2.0 .. -1.5)
 ε3: [-1.5 .. -1.0)
 ε4: [-1.0 .. -0.5)
 ε5: [-0.5 .. 0.0)
 ε6: [0.0 .. 0.5)
 ε7: [0.5 .. 1.0)
 ε8: [1.0 .. 1.5)
 ε9: [1.5 .. 2.0)
 ε10: [2.0 .. 2.5)
 ε11: [2.5 .. +∞]

Closest Distance, rRup (km)		Magnitude (Mw)		ALL_ε	ε=(-∞, -2.5)	ε=[-2.5, -2)
ε=[-2, -1.5)	ε=[-1.5, -1)	ε=[-1, -0.5)	ε=[-0.5, 0)	ε=[-0.5, 0)	ε=[0, 0.5)	ε=[0.5, 1)
ε=[0.5, 1)	ε=[1, 1.5)	ε=[1.5, 2)	ε=[2, 2.5)	ε=[2, 2.5)	ε=[2.5, ∞)	
370	9.1	0.040	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.040		
330	8.5	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000		
330	8.7	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000		
330	8.9	0.005	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.005		
310	8.5	0.002	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.002		
310	8.7	0.009	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.009		
310	8.9	0.085	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.007	0.078		
310	9.1	0.157	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.157	0.000		
310	9.3	0.404	0.000	0.000	0.000	0.000
0.000	0.000	0.404	0.000	0.000		

Principal Sources (faults, subduction, random seismicity having > 3% contribution PSHA Deaggregation. %contributions.

site: Test

longitude: 119.584°W

latitude: 45.612°E

imt: Peak Ground Acceleration

vs30 = 537 m/s (Site class C)

return period: 2475 yrs.

#This deaggregation corresponds to: GMM: Zhao et al. (2006) : Slab

Summary statistics for PSHA PGA deaggregation, r=distance, ε=epsilon:

Deaggregation targets:

Return period: 2475 yrs

Exceedance rate: 0.0004040404 yr⁻¹

PGA ground motion: 0.19927496 g

Recovered targets:

Return period: 2555.8899 yrs

Exceedance rate: 0.00039125316 yr⁻¹

Totals:

Binned: 0.01 %

90	7.7	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
90	7.9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					

Principal Sources (faults, subduction, random seismicity having > 3% contribution
PSHA Deaggregation. %contributions.

site: Test

longitude: 119.584°W

latitude: 45.612°E

imt: Peak Ground Acceleration

vs30 = 537 m/s (Site class C)

return period: 2475 yrs.

#This deaggregation corresponds to: Source Type: Grid

Summary statistics for PSHA PGA deaggregation, r=distance, ε=epsilon:

Deaggregation targets:

Return period: 2475 yrs

Exceedance rate: 0.0004040404 yr⁻¹

PGA ground motion: 0.19927496 g

Recovered targets:

Return period: 2555.8899 yrs

Exceedance rate: 0.00039125316 yr⁻¹

Totals:

Binned: 95.15 %

Residual: 0 %

Trace: 0.2 %

Mean (over all sources):

m: 6.17

r: 19 km

ε₀: 0.46 σ

Mode (largest m-r bin):

m: 5.5

r: 11.21 km

ε₀: 0.36 σ

Contribution: 7.38 %

Mode (largest m-r-ε₀ bin):

m: 5.5

r: 13.38 km

ε₀: 0.73 σ

Contribution: 2.29 %

Discretization:

r: min = 0.0, max = 1000.0, Δ = 20.0 km

m: min = 4.4, max = 9.4, Δ = 0.2

ε: min = -3.0, max = 3.0, Δ = 0.5 σ

Epsilon keys:

ε₀: [-∞ .. -2.5)

ε₁: [-2.5 .. -2.0)

ε₂: [-2.0 .. -1.5)

ε₃: [-1.5 .. -1.0)

ε₄: [-1.0 .. -0.5)

ε₅: [-0.5 .. 0.0)

0.000	0.226	0.415	0.041	0.000					
50	7.1	0.793	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.011	0.501	0.280	0.002	0.000					
50	7.3	0.824	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.186	0.550	0.088	0.000	0.000					
50	7.5	0.497	0.000	0.000	0.000	0.000	0.000	0.000	0.006
0.230	0.246	0.015	0.000	0.000					
50	7.7	0.074	0.000	0.000	0.000	0.000	0.000	0.000	0.010
0.050	0.014	0.000	0.000	0.000					
50	7.9	0.023	0.000	0.000	0.000	0.000	0.000	0.000	0.008
0.013	0.002	0.000	0.000	0.000					
30	5.1	0.740	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.207	0.390	0.142					
30	5.3	1.140	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.552	0.470	0.119					
30	5.5	1.761	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.379	0.873	0.447	0.062					
30	5.7	1.988	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.021	0.743	0.844	0.348	0.031					
30	5.9	2.105	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.165	0.994	0.717	0.218	0.011					
30	6.1	2.536	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.535	1.229	0.687	0.085	0.000					
30	6.3	2.968	0.000	0.000	0.000	0.000	0.000	0.000	0.070
1.372	1.061	0.453	0.012	0.000					
30	6.5	2.572	0.000	0.000	0.000	0.000	0.000	0.000	0.246
1.099	1.014	0.212	0.000	0.000					
30	6.7	2.299	0.000	0.000	0.000	0.000	0.000	0.005	0.400
1.013	0.783	0.098	0.000	0.000					
30	6.9	2.366	0.000	0.000	0.000	0.000	0.000	0.069	0.650
1.067	0.577	0.004	0.000	0.000					
30	7.1	2.407	0.000	0.000	0.000	0.000	0.000	0.207	0.995
1.001	0.203	0.000	0.000	0.000					
30	7.3	2.431	0.000	0.000	0.000	0.000	0.037	0.400	1.157
0.795	0.041	0.000	0.000	0.000					
30	7.5	1.279	0.000	0.000	0.000	0.000	0.030	0.312	0.655
0.282	0.000	0.000	0.000	0.000					
30	7.7	0.130	0.000	0.000	0.000	0.000	0.008	0.043	0.065
0.013	0.000	0.000	0.000	0.000					
30	7.9	0.029	0.000	0.000	0.000	0.000	0.003	0.013	0.011
0.001	0.000	0.000	0.000	0.000					
10	5.1	7.007	0.000	0.000	0.000	0.000	0.000	1.131	1.155
1.710	1.934	0.929	0.144	0.003					
10	5.3	7.310	0.000	0.000	0.000	0.000	0.412	1.113	1.372
2.121	1.856	0.413	0.022	0.000					
10	5.5	7.378	0.000	0.000	0.000	0.517	0.001	1.467	1.787
2.285	1.211	0.109	0.000	0.000					
10	5.7	6.226	0.000	0.000	0.000	0.368	0.557	1.157	1.723
1.816	0.593	0.012	0.000	0.000					
10	5.9	5.081	0.000	0.000	0.000	0.257	0.841	0.700	1.717

1.394	0.173	0.000	0.000	0.000						
10	6.1	6.261	0.000	0.000	0.000	0.466	1.229	1.751	1.787	
1.015	0.013	0.000	0.000	0.000						
10	6.3	5.286	0.000	0.000	0.000	0.686	1.213	1.749	1.402	
0.235	0.000	0.000	0.000	0.000						
10	6.5	4.669	0.000	0.000	0.139	0.685	1.199	1.345	1.160	
0.141	0.000	0.000	0.000	0.000						
10	6.7	3.902	0.000	0.021	0.205	0.494	1.163	1.071	0.921	
0.027	0.000	0.000	0.000	0.000						
10	6.9	3.185	0.000	0.022	0.165	0.503	0.979	1.060	0.455	
0.000	0.000	0.000	0.000	0.000						
10	7.1	2.491	0.000	0.025	0.164	0.415	0.811	0.985	0.090	
0.000	0.000	0.000	0.000	0.000						
10	7.3	1.864	0.000	0.022	0.127	0.375	0.675	0.642	0.024	
0.000	0.000	0.000	0.000	0.000						
10	7.5	0.784	0.000	0.014	0.061	0.182	0.300	0.224	0.003	
0.000	0.000	0.000	0.000	0.000						
10	7.7	0.062	0.000	0.001	0.006	0.018	0.025	0.011	0.000	
0.000	0.000	0.000	0.000	0.000						
10	7.9	0.012	0.000	0.000	0.002	0.004	0.005	0.001	0.000	
0.000	0.000	0.000	0.000	0.000						

Principal Sources (faults, subduction, random seismicity having > 3% contribution

WUSmap_2014_fixSm.ch.in (opt):

Percent Contributed: 12.69

Distance (km): 18.958935

Magnitude: 6.1601847

Epsilon (mean values): 0.46393618

PointSourceFinite: -119.584, 45.697:

Percent Contributed: 1.51

Distance (km): 10.262971

Magnitude: 5.8294582

Epsilon (mean values): 0.062946135

Azimuth: 0

Latitude: 45.697435

Longitude: -119.584

PointSourceFinite: -119.584, 45.625:

Percent Contributed: 1.35

Distance (km): 5.2804029

Magnitude: 5.6362284

Epsilon (mean values): -0.59738412

Azimuth: 0

Latitude: 45.62549

Longitude: -119.584

noPuget_2014_fixSm.ch.in (opt):

Percent Contributed: 12.69

Distance (km): 18.958924

Magnitude: 6.1601846

Epsilon (mean values): 0.46393595

PointSourceFinite: -119.584, 45.697:

Percent Contributed: 1.51

Distance (km): 10.262971
Magnitude: 5.8294582
Epsilon (mean values): 0.062946135
Azimuth: 0
Latitude: 45.697435
Longitude: -119.584
PointSourceFinite: -119.584, 45.625:
Percent Contributed: 1.35
Distance (km): 5.2804029
Magnitude: 5.6362284
Epsilon (mean values): -0.59738412
Azimuth: 0
Latitude: 45.62549
Longitude: -119.584
WUSmap_2014_fixSm.gr.in (opt):
Percent Contributed: 12.64
Distance (km): 18.805096
Magnitude: 6.1570061
Epsilon (mean values): 0.45842946
PointSourceFinite: -119.584, 45.697:
Percent Contributed: 1.51
Distance (km): 10.262971
Magnitude: 5.8294582
Epsilon (mean values): 0.062946135
Azimuth: 0
Latitude: 45.697435
Longitude: -119.584
PointSourceFinite: -119.584, 45.625:
Percent Contributed: 1.35
Distance (km): 5.2804029
Magnitude: 5.6362284
Epsilon (mean values): -0.59738412
Azimuth: 0
Latitude: 45.62549
Longitude: -119.584
noPuget_2014_fixSm.gr.in (opt):
Percent Contributed: 12.64
Distance (km): 18.805085
Magnitude: 6.157006
Epsilon (mean values): 0.45842923
PointSourceFinite: -119.584, 45.697:
Percent Contributed: 1.51
Distance (km): 10.262971
Magnitude: 5.8294582
Epsilon (mean values): 0.062946135
Azimuth: 0
Latitude: 45.697435
Longitude: -119.584
PointSourceFinite: -119.584, 45.625:
Percent Contributed: 1.35

Distance (km): 5.2804029
Magnitude: 5.6362284
Epsilon (mean values): -0.59738412
Azimuth: 0
Latitude: 45.62549
Longitude: -119.584
noPuget_2014_adSm.ch.in (opt):
Percent Contributed: 8.49
Distance (km): 18.752767
Magnitude: 6.1525249
Epsilon (mean values): 0.45292885
WUSmap_2014_adSm.ch.in (opt):
Percent Contributed: 8.47
Distance (km): 18.750241
Magnitude: 6.1524579
Epsilon (mean values): 0.452834
noPuget_2014_adSm.gr.in (opt):
Percent Contributed: 8.46
Distance (km): 18.618925
Magnitude: 6.1497297
Epsilon (mean values): 0.4480857
WUSmap_2014_adSm.gr.in (opt):
Percent Contributed: 8.45
Distance (km): 18.616627
Magnitude: 6.1496671
Epsilon (mean values): 0.44799916
WUSmap_2014_fixSm_M8.in (opt):
Percent Contributed: 3.14
Distance (km): 20.675889
Magnitude: 6.2893622
Epsilon (mean values): 0.45071684
noPuget_2014_fixSm_M8.in (opt):
Percent Contributed: 3.14
Distance (km): 20.675422
Magnitude: 6.2893564
Epsilon (mean values): 0.45070914
noPuget_2014_adSm_M8.in (opt):
Percent Contributed: 2.09
Distance (km): 20.464126
Magnitude: 6.2801059
Epsilon (mean values): 0.44046703
WUSmap_2014_adSm_M8.in (opt):
Percent Contributed: 2.09
Distance (km): 20.459271
Magnitude: 6.2799746
Epsilon (mean values): 0.44033101
PSHA Deaggregation. %contributions.
site: Test
longitude: 119.584°W
latitude: 45.612°E

imt: Peak Ground Acceleration

vs30 = 537 m/s (Site class C)

return period: 2475 yrs.

#This deaggregation corresponds to: Source Type: Slab

Summary statistics for PSHA PGA deaggregation, r=distance, ε=epsilon:

Deaggregation targets:

Return period: 2475 yrs

Exceedance rate: 0.0004040404 yr⁻¹

PGA ground motion: 0.19927496 g

Recovered targets:

Return period: 2555.8899 yrs

Exceedance rate: 0.00039125316 yr⁻¹

Totals:

Binned: 0.19 %

Residual: 0 %

Trace: 0.1 %

Mean (over all sources):

m: 7.33

r: 228.75 km

ε₀: 2.2 σ

Mode (largest m-r bin):

m: 7.12

r: 229.59 km

ε₀: 2.52 σ

Contribution: 0.02 %

Mode (largest m-r-ε₀ bin):

m: 7.12

r: 211.03 km

ε₀: 2.29 σ

Contribution: 0.02 %

Discretization:

r: min = 0.0, max = 1000.0, Δ = 20.0 km

m: min = 4.4, max = 9.4, Δ = 0.2

ε: min = -3.0, max = 3.0, Δ = 0.5 σ

Epsilon keys:

ε0: [-∞ .. -2.5)

ε1: [-2.5 .. -2.0)

ε2: [-2.0 .. -1.5)

ε3: [-1.5 .. -1.0)

ε4: [-1.0 .. -0.5)

ε5: [-0.5 .. 0.0)

ε6: [0.0 .. 0.5)

ε7: [0.5 .. 1.0)

ε8: [1.0 .. 1.5)

ε9: [1.5 .. 2.0)

ε10: [2.0 .. 2.5)

ε11: [2.5 .. +∞)

Closest Distance, rRup (km)

ε=[-2,-1.5)

ε=[0.5,1)

ε=[-1.5,-1)

ε=[1,1.5)

Magnitude (Mw)

ε=[-1,-0.5)

ε=[1.5,2)

ALL_ε

ε=[-0.5,0)

ε=[2,2.5)

ε=(-∞, -2.5)

ε=[0,0.5)

ε=[2.5,∞)

ε=[-2.5, -2)

290	7.1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
290	7.3	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.001					
290	7.5	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.001	0.001					
270	7.1	0.004	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.004					
270	7.3	0.006	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.001	0.005					
270	7.5	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.007	0.001					
270	7.7	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.001	0.000					
270	7.9	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
250	6.9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
250	7.1	0.016	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.016					
250	7.3	0.009	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.006	0.002					
250	7.5	0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.002	0.009	0.000					
250	7.7	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.002	0.001	0.000					
250	7.9	0.004	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.003	0.001	0.000					
230	6.9	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.003					
230	7.1	0.024	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.011	0.013					
230	7.3	0.009	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.001	0.008	0.000					
230	7.5	0.009	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.008	0.001	0.000					
230	7.7	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.002	0.000	0.000					
230	7.9	0.005	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.001	0.003	0.000	0.000					
210	6.7	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
210	6.9	0.004	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.004					
210	7.1	0.021	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.019	0.002					
210	7.3	0.007	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.004	0.002	0.000					
210	7.5	0.007	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.006	0.000	0.000					

90 7.9 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000
0.000 0.000 0.000 0.000 0.000

Principal Sources (faults, subduction, random seismicity having > 3% contribution
PSHA Deaggregation. %contributions.

site: Test

longitude: 119.584°W

latitude: 45.612°E

imt: Peak Ground Acceleration

vs30 = 537 m/s (Site class C)

return period: 2475 yrs.

#This deaggregation corresponds to: Source Type: Interface

Summary statistics for PSHA PGA deaggregation, r=distance, ϵ =epsilon:

Deaggregation targets:

Return period: 2475 yrs

Exceedance rate: 0.0004040404 yr⁻¹

PGA ground motion: 0.19927496 g

Recovered targets:

Return period: 2555.8899 yrs

Exceedance rate: 0.00039125316 yr⁻¹

Totals:

Binned: 3.98 %

Residual: 0 %

Trace: 0.03 %

Mean (over all sources):

m: 9.05

r: 326.57 km

ϵ_0 : 2 σ

Mode (largest m-r bin):

m: 9.34

r: 308.17 km

ϵ_0 : 1.7 σ

Contribution: 1.28 %

Mode (largest m-r- ϵ_0 bin):

m: 9.34

r: 308.17 km

ϵ_0 : 1.7 σ

Contribution: 1.28 %

Discretization:

r: min = 0.0, max = 1000.0, Δ = 20.0 km

m: min = 4.4, max = 9.4, Δ = 0.2

ϵ : min = -3.0, max = 3.0, Δ = 0.5 σ

Epsilon keys:

ϵ_0 : [- ∞ .. -2.5)

ϵ_1 : [-2.5 .. -2.0)

ϵ_2 : [-2.0 .. -1.5)

ϵ_3 : [-1.5 .. -1.0)

ϵ_4 : [-1.0 .. -0.5)

ϵ_5 : [-0.5 .. 0.0)

ϵ_6 : [0.0 .. 0.5)

ϵ_7 : [0.5 .. 1.0)

0.000	0.000	0.000	0.001	0.001					
330	8.5	0.025	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.025	0.000					
330	8.7	0.026	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.026	0.000					
330	8.9	0.043	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.039	0.005					
310	7.9	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.002					
310	8.1	0.007	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.004	0.004					
310	8.3	0.005	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.005	0.000					
310	8.5	0.046	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.044	0.002					
310	8.7	0.079	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.071	0.009					
310	8.9	0.503	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.418	0.007	0.078					
310	9.1	0.706	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.549	0.157	0.000					
310	9.3	1.285	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	1.285	0.000	0.000					

Principal Sources (faults, subduction, random seismicity having > 3% contribution
sub0_ch_bot.in:

Percent Contributed: 2.42
Distance (km): 308.17316
Magnitude: 9.1544734
Epsilon (mean values): 1.8331186

Cascadia Megathrust - whole CSZ Characteristic:

Percent Contributed: 2.42
Distance (km): 308.17316
Magnitude: 9.1544734
Epsilon (mean values): 1.8331186
Azimuth: 285.86185
Latitude: 46.3
Longitude: -123.4132

PSHA Deaggregation. %contributions.

site: Test

longitude: 119.584°W

latitude: 45.612°E

imt: Peak Ground Acceleration

vs30 = 537 m/s (Site class C)

return period: 2475 yrs.

#This deaggregation corresponds to: Source Type: Fault

Summary statistics for PSHA PGA deaggregation, r=distance, ε=epsilon:

Deaggregation targets:

Return period: 2475 yrs
Exceedance rate: 0.0004040404 yr⁻¹
PGA ground motion: 0.19927496 g

0.000	0.000	0.000	0.003	0.004					
110	7.7	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.002	0.000					
90	6.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
90	6.7	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.001					
90	6.9	0.005	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.005					
90	7.1	0.012	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.006	0.006					
90	7.3	0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.010	0.000					
90	7.5	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.001	0.001	0.000					
70	6.5	0.015	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.011	0.004					
70	6.7	0.043	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.040	0.003					
70	6.9	0.029	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.009	0.020	0.000					
70	7.1	0.082	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.072	0.011	0.000					
70	7.3	0.114	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.021	0.094	0.000	0.000					
70	7.5	0.077	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.064	0.014	0.000	0.000					
70	7.7	0.031	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.005	0.025	0.001	0.000	0.000					
70	7.9	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.001	0.001	0.000	0.000	0.000					
50	6.5	0.018	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.016	0.001					
50	6.7	0.050	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.004	0.045	0.001					
50	6.9	0.067	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.047	0.021	0.000					
50	7.1	0.070	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.070	0.000	0.000					
50	7.3	0.037	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.016	0.020	0.000	0.000					
50	7.5	0.006	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.005	0.001	0.000	0.000					

Principal Sources (faults, subduction, random seismicity having > 3% contribution

*** Deaggregation of Seismic Hazard at One Period of Spectral Acceleration ***

*** Data from Dynamic: Conterminous U.S. 2014 (update) (4.2.0) ****

PSHA Deaggregation. %contributions.

site: Test

longitude: 119.584°W

latitude: 45.612°E

imt: Peak Ground Acceleration

vs30 = 259 m/s (Site class D)

return period: 2475 yrs.

#This deaggregation corresponds to: Total

Summary statistics for PSHA PGA deaggregation, r=distance, ϵ =epsilon:

Deaggregation targets:

Return period: 2475 yrs

Exceedance rate: 0.0004040404 yr⁻¹

PGA ground motion: 0.23918083 g

Recovered targets:

Return period: 2543.3866 yrs

Exceedance rate: 0.00039317656 yr⁻¹

Totals:

Binned: 100 %

Residual: 0 %

Trace: 0.41 %

Mean (over all sources):

m: 6.29

r: 35.32 km

ϵ_0 : 0.65 σ

Mode (largest m-r bin):

m: 5.3

r: 10.81 km

ϵ_0 : 0.63 σ

Contribution: 7.19 %

Mode (largest m-r- ϵ_0 bin):

m: 5.5

r: 13.56 km

ϵ_0 : 0.73 σ

Contribution: 2.4 %

Discretization:

r: min = 0.0, max = 1000.0, Δ = 20.0 km

m: min = 4.4, max = 9.4, Δ = 0.2

ϵ : min = -3.0, max = 3.0, Δ = 0.5 σ

Epsilon keys:

ϵ_0 : [-∞ .. -2.5)

ϵ_1 : [-2.5 .. -2.0)

ϵ_2 : [-2.0 .. -1.5)

ϵ_3 : [-1.5 .. -1.0)

ϵ_4 : [-1.0 .. -0.5)

ϵ_5 : [-0.5 .. 0.0)

ϵ_6 : [0.0 .. 0.5)

ϵ_7 : [0.5 .. 1.0)

ϵ_8 : [1.0 .. 1.5)

ϵ_9 : [1.5 .. 2.0)
 ϵ_{10} : [2.0 .. 2.5)
 ϵ_{11} : [2.5 .. $+\infty$)

Closest Distance, rRup (km)				Magnitude (Mw)		ALL_ε	ε=(-∞, -2.5)	ε=[-2.5, -2)	
ε=[-2, -1.5)		ε=[-1.5, -1)		ε=[-1, -0.5)		ε=[-0.5, 0)	ε=[0, 0.5)		
ε=[0.5, 1)		ε=[1, 1.5)		ε=[1.5, 2)		ε=[2, 2.5)	ε=[2.5, ∞)		
450	8.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
430	8.3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
430	8.5	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.001					
410	8.1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
410	8.3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
410	8.5	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.003					
390	7.9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
390	8.1	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.002					
390	8.3	0.023	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.023					
390	8.5	0.036	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.003	0.033					
390	8.7	0.182	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.182	0.000					
390	9.1	0.148	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.148	0.000					
370	7.9	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.001					
370	8.1	0.006	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.006					
370	8.3	0.005	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.005					
370	8.5	0.067	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.059	0.008					
370	8.7	0.315	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.315	0.000					
370	8.9	0.343	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.343	0.000					
370	9.1	0.620	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.620	0.000	0.000					
350	7.9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
350	8.1	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.001					
350	8.3	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.001					

350	8.5	0.006	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.006	0.000					
330	7.9	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.001					
330	8.1	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.001	0.002					
330	8.3	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.002	0.000					
330	8.5	0.034	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.034	0.000					
330	8.7	0.035	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.035	0.000					
330	8.9	0.050	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.049	0.000	0.001					
310	7.9	0.004	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.002	0.002					
310	8.1	0.011	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.011	0.000					
310	8.3	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.008	0.000					
310	8.5	0.059	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.059	0.000					
310	8.7	0.092	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.065	0.026	0.001					
310	8.9	0.554	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.523	0.000	0.031					
310	9.1	0.740	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.669	0.005	0.066					
310	9.3	1.238	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	1.021	0.217	0.000					
290	7.1	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.001					
290	7.3	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.002					
290	7.5	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.002	0.000					
270	7.1	0.014	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.014					
270	7.3	0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.004	0.006					
270	7.5	0.011	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.011	0.000					
270	7.7	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.001	0.001	0.000					
270	7.9	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.001	0.000	0.000					
250	6.9	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.001					
250	7.1	0.037	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.006	0.030					

250	7.3	0.013	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.012	0.001					
250	7.5	0.014	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.006	0.008	0.000					
250	7.7	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.003	0.000	0.000					
250	7.9	0.004	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.004	0.000	0.000					
230	6.9	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.008					
230	7.1	0.043	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.031	0.012					
230	7.3	0.012	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.003	0.008	0.000					
230	7.5	0.011	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.010	0.001	0.000					
230	7.7	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.001	0.002	0.000	0.000					
230	7.9	0.005	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.002	0.002	0.001	0.000					
210	6.7	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
210	6.9	0.007	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.002	0.006					
210	7.1	0.030	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.001	0.029	0.000					
210	7.3	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.007	0.001	0.000					
210	7.5	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.002	0.006	0.000	0.000					
210	7.7	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.002	0.000	0.000	0.000					
210	7.9	0.004	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.003	0.001	0.000	0.000					
190	6.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
190	6.7	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.001					
190	6.9	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.002	0.000					
190	7.1	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.006	0.002	0.000					
190	7.3	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.002	0.000	0.000					
190	7.5	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.002	0.000	0.000	0.000					
190	7.7	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.001	0.000	0.000	0.000					
190	7.9	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.001	0.001	0.000	0.000	0.000					

70	5.7	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
70	5.9	0.004	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.004					
70	6.1	0.027	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.027					
70	6.3	0.081	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.030	0.052					
70	6.5	0.146	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.090	0.057					
70	6.7	0.205	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.017	0.150	0.039					
70	6.9	0.258	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.082	0.162	0.013					
70	7.1	0.387	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.274	0.110	0.002					
70	7.3	0.518	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.146	0.333	0.039	0.000					
70	7.5	0.314	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.189	0.115	0.011	0.000					
70	7.7	0.069	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.010	0.052	0.008	0.000	0.000					
70	7.9	0.014	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.007	0.006	0.001	0.000	0.000					
50	5.1	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.003					
50	5.3	0.021	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.021					
50	5.5	0.108	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.027	0.081					
50	5.7	0.192	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.110	0.081					
50	5.9	0.277	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.013	0.189	0.074					
50	6.1	0.478	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.142	0.278	0.058					
50	6.3	0.637	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.321	0.290	0.026					
50	6.5	0.722	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.057	0.441	0.215	0.010					
50	6.7	0.724	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.130	0.454	0.140	0.000					
50	6.9	0.826	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.331	0.445	0.050	0.000					
50	7.1	0.919	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.044	0.557	0.299	0.019	0.000					
50	7.3	0.884	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.263	0.535	0.086	0.000	0.000					
50	7.5	0.505	0.000	0.000	0.000	0.000	0.000	0.000	0.006
0.261	0.211	0.027	0.000	0.000					

50	7.7	0.072	0.000	0.000	0.000	0.000	0.000	0.000	0.010
0.050	0.011	0.001	0.000	0.000					
50	7.9	0.022	0.000	0.000	0.000	0.000	0.000	0.000	0.008
0.011	0.002	0.000	0.000	0.000					
30	5.1	1.034	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.361	0.519	0.155					
30	5.3	1.522	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.072	0.843	0.486	0.121					
30	5.5	2.192	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.017	0.693	0.941	0.491	0.051					
30	5.7	2.336	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.159	0.951	0.874	0.328	0.025					
30	5.9	2.347	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.266	1.088	0.793	0.188	0.013					
30	6.1	2.662	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.696	1.208	0.676	0.080	0.001					
30	6.3	2.958	0.000	0.000	0.000	0.000	0.000	0.000	0.087
1.208	1.232	0.411	0.018	0.000					
30	6.5	2.507	0.000	0.000	0.000	0.000	0.000	0.000	0.169
1.112	1.028	0.198	0.000	0.000					
30	6.7	2.228	0.000	0.000	0.000	0.000	0.000	0.005	0.324
1.026	0.766	0.107	0.000	0.000					
30	6.9	2.258	0.000	0.000	0.000	0.000	0.000	0.059	0.565
1.088	0.515	0.032	0.000	0.000					
30	7.1	2.264	0.000	0.000	0.000	0.000	0.000	0.164	0.876
1.035	0.188	0.002	0.000	0.000					
30	7.3	2.264	0.000	0.000	0.000	0.000	0.018	0.304	1.077
0.769	0.096	0.000	0.000	0.000					
30	7.5	1.185	0.000	0.000	0.000	0.000	0.024	0.253	0.609
0.267	0.032	0.000	0.000	0.000					
30	7.7	0.120	0.000	0.000	0.000	0.000	0.006	0.035	0.064
0.013	0.002	0.000	0.000	0.000					
30	7.9	0.026	0.000	0.000	0.000	0.000	0.002	0.011	0.011
0.002	0.000	0.000	0.000	0.000					
10	5.1	7.097	0.000	0.000	0.000	0.000	0.000	1.081	1.125
1.863	2.083	0.835	0.105	0.007					
10	5.3	7.192	0.000	0.000	0.000	0.000	0.288	1.168	1.312
2.180	1.870	0.333	0.041	0.000					
10	5.5	7.043	0.000	0.000	0.000	0.228	0.264	1.154	1.791
2.402	1.055	0.146	0.002	0.000					
10	5.7	5.856	0.000	0.000	0.000	0.350	0.130	1.277	1.659
1.839	0.548	0.052	0.000	0.000					
10	5.9	4.727	0.000	0.000	0.000	0.245	0.442	0.881	1.592
1.337	0.231	0.000	0.000	0.000					
10	6.1	5.766	0.000	0.000	0.000	0.173	1.017	1.624	1.857
0.998	0.097	0.000	0.000	0.000					
10	6.3	4.852	0.000	0.000	0.000	0.216	1.121	1.693	1.447
0.375	0.000	0.000	0.000	0.000					
10	6.5	4.295	0.000	0.000	0.041	0.362	1.078	1.363	1.235
0.217	0.000	0.000	0.000	0.000					

10	6.7	3.593	0.000	0.000	0.062	0.423	0.882	1.161	0.952
0.112	0.000	0.000	0.000	0.000					
10	6.9	2.931	0.000	0.007	0.050	0.343	0.871	1.042	0.604
0.013	0.000	0.000	0.000	0.000					
10	7.1	2.293	0.000	0.010	0.034	0.301	0.738	0.943	0.266
0.000	0.000	0.000	0.000	0.000					
10	7.3	1.718	0.000	0.010	0.045	0.266	0.613	0.659	0.125
0.000	0.000	0.000	0.000	0.000					
10	7.5	0.724	0.000	0.006	0.026	0.136	0.265	0.252	0.038
0.000	0.000	0.000	0.000	0.000					
10	7.7	0.057	0.000	0.001	0.003	0.013	0.024	0.016	0.002
0.000	0.000	0.000	0.000	0.000					
10	7.9	0.012	0.000	0.000	0.001	0.003	0.005	0.002	0.000
0.000	0.000	0.000	0.000	0.000					

Principal Sources (faults, subduction, random seismicity having > 3% contribution

WUSmap_2014_fixSm.ch.in (opt):

Percent Contributed: 12.59

Distance (km): 20.027829

Magnitude: 6.1417279

Epsilon (mean values): 0.58219957

PointSourceFinite: -119.584, 45.697:

Percent Contributed: 1.42

Distance (km): 10.272861

Magnitude: 5.8157071

Epsilon (mean values): 0.14986318

Azimuth: 0

Latitude: 45.697435

Longitude: -119.584

PointSourceFinite: -119.584, 45.625:

Percent Contributed: 1.25

Distance (km): 5.2763564

Magnitude: 5.6407563

Epsilon (mean values): -0.46425568

Azimuth: 0

Latitude: 45.62549

Longitude: -119.584

noPuget_2014_fixSm.ch.in (opt):

Percent Contributed: 12.59

Distance (km): 20.0278

Magnitude: 6.1417276

Epsilon (mean values): 0.58219901

PointSourceFinite: -119.584, 45.697:

Percent Contributed: 1.42

Distance (km): 10.272861

Magnitude: 5.8157071

Epsilon (mean values): 0.14986318

Azimuth: 0

Latitude: 45.697435

Longitude: -119.584

PointSourceFinite: -119.584, 45.625:

Percent Contributed: 1.25
Distance (km): 5.2763564
Magnitude: 5.6407563
Epsilon (mean values): -0.46425568
Azimuth: 0
Latitude: 45.62549
Longitude: -119.584
WUSmap_2014_fixSm.gr.in (opt):
Percent Contributed: 12.53
Distance (km): 19.842853
Magnitude: 6.1378796
Epsilon (mean values): 0.57636951
PointSourceFinite: -119.584, 45.697:
Percent Contributed: 1.42
Distance (km): 10.272861
Magnitude: 5.8157071
Epsilon (mean values): 0.14986318
Azimuth: 0
Latitude: 45.697435
Longitude: -119.584
PointSourceFinite: -119.584, 45.625:
Percent Contributed: 1.25
Distance (km): 5.2763564
Magnitude: 5.6407563
Epsilon (mean values): -0.46425568
Azimuth: 0
Latitude: 45.62549
Longitude: -119.584
noPuget_2014_fixSm.gr.in (opt):
Percent Contributed: 12.53
Distance (km): 19.842824
Magnitude: 6.1378792
Epsilon (mean values): 0.57636895
PointSourceFinite: -119.584, 45.697:
Percent Contributed: 1.42
Distance (km): 10.272861
Magnitude: 5.8157071
Epsilon (mean values): 0.14986318
Azimuth: 0
Latitude: 45.697435
Longitude: -119.584
PointSourceFinite: -119.584, 45.625:
Percent Contributed: 1.25
Distance (km): 5.2763564
Magnitude: 5.6407563
Epsilon (mean values): -0.46425568
Azimuth: 0
Latitude: 45.62549
Longitude: -119.584
noPuget_2014_adSm.ch.in (opt):

Percent Contributed: 8.41
Distance (km): 19.812841
Magnitude: 6.134462
Epsilon (mean values): 0.57147232
WUSmap_2014_adSm.ch.in (opt):
Percent Contributed: 8.4
Distance (km): 19.80977
Magnitude: 6.134388
Epsilon (mean values): 0.57137047
noPuget_2014_adSm.gr.in (opt):
Percent Contributed: 8.38
Distance (km): 19.652474
Magnitude: 6.1310878
Epsilon (mean values): 0.56636004
WUSmap_2014_adSm.gr.in (opt):
Percent Contributed: 8.37
Distance (km): 19.649689
Magnitude: 6.1310193
Epsilon (mean values): 0.56626731
WUSmap_2014_fixSm_M8.in (opt):
Percent Contributed: 3.11
Distance (km): 21.81981
Magnitude: 6.2707025
Epsilon (mean values): 0.56813838
noPuget_2014_fixSm_M8.in (opt):
Percent Contributed: 3.11
Distance (km): 21.818866
Magnitude: 6.2706912
Epsilon (mean values): 0.56812438
sub0_ch_bot.in:
Percent Contributed: 2.45
Distance (km): 308.17316
Magnitude: 9.1430242
Epsilon (mean values): 1.7433173
Cascadia Megathrust - whole CSZ Characteristic:
Percent Contributed: 2.45
Distance (km): 308.17316
Magnitude: 9.1430242
Epsilon (mean values): 1.7433173
Azimuth: 285.86185
Latitude: 46.3
Longitude: -123.4132
noPuget_2014_adSm_M8.in (opt):
Percent Contributed: 2.07
Distance (km): 21.609283
Magnitude: 6.2620429
Epsilon (mean values): 0.55837717
WUSmap_2014_adSm_M8.in (opt):
Percent Contributed: 2.07
Distance (km): 21.603574

Magnitude: 6.2618988
Epsilon (mean values): 0.55823539
sub0_ch_mid.in:
Percent Contributed: 1.22
Distance (km): 361.47413
Magnitude: 8.9446817
Epsilon (mean values): 2.1010198
Cascadia Megathrust - whole CSZ Characteristic:
Percent Contributed: 1.22
Distance (km): 361.47413
Magnitude: 8.9446817
Epsilon (mean values): 2.1010198
Azimuth: 283.89391
Latitude: 46.3
Longitude: -124.13677
PSHA Deaggregation. %contributions.
site: Test
longitude: 119.584°W
latitude: 45.612°E
imt: Peak Ground Acceleration
vs30 = 259 m/s (Site class D)
return period: 2475 yrs.
#This deaggregation corresponds to: GMM: Abrahamson, Silva & Kamai (2014)
Summary statistics for PSHA PGA deaggregation, r=distance, ε=epsilon:
Deaggregation targets:
Return period: 2475 yrs
Exceedance rate: 0.0004040404 yr⁻¹
PGA ground motion: 0.23918083 g
Recovered targets:
Return period: 2543.3866 yrs
Exceedance rate: 0.00039317656 yr⁻¹
Totals:
Binned: 26.54 %
Residual: 0 %
Trace: 0.15 %
Mean (over all sources):
m: 6.09
r: 21.09 km
ε₀: 0.7 σ
Mode (largest m-r bin):
m: 5.1
r: 10.86 km
ε₀: 0.72 σ
Contribution: 2.66 %
Mode (largest m-r-ε₀ bin):
m: 5.09
r: 14.96 km
ε₀: 1.23 σ
Contribution: 0.85 %
Discretization:

r: min = 0.0, max = 1000.0, Δ = 20.0 km
 m: min = 4.4, max = 9.4, Δ = 0.2
 ε: min = -3.0, max = 3.0, Δ = 0.5 σ

Epsilon keys:

- ε0: [-∞ .. -2.5)
- ε1: [-2.5 .. -2.0)
- ε2: [-2.0 .. -1.5)
- ε3: [-1.5 .. -1.0)
- ε4: [-1.0 .. -0.5)
- ε5: [-0.5 .. 0.0)
- ε6: [0.0 .. 0.5)
- ε7: [0.5 .. 1.0)
- ε8: [1.0 .. 1.5)
- ε9: [1.5 .. 2.0)
- ε10: [2.0 .. 2.5)
- ε11: [2.5 .. +∞)

Closest Distance, rRup (km)		Magnitude (Mw)		ALL_ε	ε=(-∞, -2.5)	ε=[-2.5, -2)
ε=[-2, -1.5)	ε=[-1.5, -1)	ε=[-1, -0.5)	ε=[-0.5, 0)	ε=[-0.5, 0)	ε=[0, 0.5)	ε=[0, 0.5)
ε=[0.5, 1)	ε=[1, 1.5)	ε=[1.5, 2)	ε=[2, 2.5)	ε=[2, 2.5)	ε=[2.5, ∞)	ε=[2.5, ∞)
190	7.9	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000
170	7.7	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000
170	7.9	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000
150	7.5	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000
150	7.7	0.001	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000
150	7.9	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000
130	7.1	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000
130	7.3	0.002	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.002	0.000	0.000
130	7.5	0.004	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.004	0.000	0.000
130	7.7	0.001	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.001	0.000	0.000	0.000
130	7.9	0.001	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.001	0.000	0.000	0.000
110	6.7	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000
110	6.9	0.001	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.001	0.000	0.000
110	7.1	0.006	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.006	0.000	0.000
110	7.3	0.017	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.008	0.010	0.000	0.000
110	7.5	0.016	0.000	0.000	0.000	0.000

0.000	0.000	0.000	0.000	0.035					
50	5.7	0.059	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.023	0.036					
50	5.9	0.090	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.065	0.026					
50	6.1	0.162	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.037	0.110	0.015					
50	6.3	0.226	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.144	0.083	0.000					
50	6.5	0.233	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.019	0.162	0.052	0.000					
50	6.7	0.209	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.022	0.157	0.031	0.000					
50	6.9	0.235	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.097	0.138	0.000	0.000					
50	7.1	0.254	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.175	0.079	0.000	0.000					
50	7.3	0.243	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.058	0.175	0.009	0.000	0.000					
50	7.5	0.138	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.071	0.067	0.000	0.000	0.000					
50	7.7	0.020	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.018	0.001	0.000	0.000	0.000					
50	7.9	0.006	0.000	0.000	0.000	0.000	0.000	0.000	0.002
0.004	0.000	0.000	0.000	0.000					
30	5.1	0.621	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.314	0.239	0.067					
30	5.3	0.640	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.020	0.411	0.178	0.031					
30	5.5	0.652	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.146	0.346	0.152	0.008					
30	5.7	0.664	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.247	0.295	0.122	0.000					
30	5.9	0.668	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.016	0.389	0.215	0.048	0.000					
30	6.1	0.757	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.166	0.387	0.203	0.000	0.000					
30	6.3	0.845	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.392	0.373	0.080	0.000	0.000					
30	6.5	0.668	0.000	0.000	0.000	0.000	0.000	0.000	0.012
0.310	0.319	0.028	0.000	0.000					
30	6.7	0.561	0.000	0.000	0.000	0.000	0.000	0.000	0.041
0.285	0.233	0.002	0.000	0.000					
30	6.9	0.569	0.000	0.000	0.000	0.000	0.000	0.000	0.118
0.303	0.148	0.000	0.000	0.000					
30	7.1	0.565	0.000	0.000	0.000	0.000	0.000	0.000	0.227
0.308	0.030	0.000	0.000	0.000					
30	7.3	0.565	0.000	0.000	0.000	0.000	0.000	0.013	0.307
0.245	0.000	0.000	0.000	0.000					
30	7.5	0.297	0.000	0.000	0.000	0.000	0.000	0.035	0.184

0.078	0.000	0.000	0.000	0.000					
30	7.7	0.030	0.000	0.000	0.000	0.000	0.000	0.007	0.021
0.002	0.000	0.000	0.000	0.000					
30	7.9	0.007	0.000	0.000	0.000	0.000	0.000	0.003	0.004
0.000	0.000	0.000	0.000	0.000					
10	5.1	2.657	0.000	0.000	0.000	0.000	0.000	0.646	0.317
0.722	0.852	0.120	0.000	0.000					
10	5.3	2.186	0.000	0.000	0.000	0.000	0.000	0.487	0.300
0.792	0.598	0.008	0.000	0.000					
10	5.5	1.793	0.000	0.000	0.000	0.000	0.000	0.365	0.361
0.687	0.380	0.000	0.000	0.000					
10	5.7	1.462	0.000	0.000	0.000	0.000	0.086	0.251	0.420
0.557	0.149	0.000	0.000	0.000					
10	5.9	1.182	0.000	0.000	0.000	0.000	0.206	0.101	0.410
0.442	0.022	0.000	0.000	0.000					
10	6.1	1.423	0.000	0.000	0.000	0.000	0.246	0.349	0.528
0.300	0.000	0.000	0.000	0.000					
10	6.3	1.194	0.000	0.000	0.000	0.000	0.256	0.433	0.429
0.076	0.000	0.000	0.000	0.000					
10	6.5	1.035	0.000	0.000	0.000	0.082	0.216	0.339	0.340
0.059	0.000	0.000	0.000	0.000					
10	6.7	0.863	0.000	0.000	0.000	0.094	0.181	0.299	0.272
0.017	0.000	0.000	0.000	0.000					
10	6.9	0.711	0.000	0.000	0.000	0.066	0.200	0.248	0.197
0.000	0.000	0.000	0.000	0.000					
10	7.1	0.557	0.000	0.000	0.000	0.046	0.172	0.276	0.063
0.000	0.000	0.000	0.000	0.000					
10	7.3	0.420	0.000	0.000	0.000	0.050	0.137	0.220	0.013
0.000	0.000	0.000	0.000	0.000					
10	7.5	0.178	0.000	0.000	0.003	0.024	0.061	0.091	0.000
0.000	0.000	0.000	0.000	0.000					
10	7.7	0.014	0.000	0.000	0.000	0.002	0.006	0.005	0.000
0.000	0.000	0.000	0.000	0.000					
10	7.9	0.003	0.000	0.000	0.000	0.001	0.001	0.001	0.000
0.000	0.000	0.000	0.000	0.000					

Principal Sources (faults, subduction, random seismicity having > 3% contribution

WUSmap_2014_fixSm.ch.in (opt):

Percent Contributed: 3.52

Distance (km): 20.716464

Magnitude: 6.0712503

Epsilon (mean values): 0.69618356

noPuget_2014_fixSm.ch.in (opt):

Percent Contributed: 3.52

Distance (km): 20.716436

Magnitude: 6.0712499

Epsilon (mean values): 0.69618302

WUSmap_2014_fixSm.gr.in (opt):

Percent Contributed: 3.5

Distance (km): 20.521427

Magnitude: 6.066831

Epsilon (mean values): 0.69059786
noPuget_2014_fixSm.gr.in (opt):
Percent Contributed: 3.5
Distance (km): 20.521399
Magnitude: 6.0668306
Epsilon (mean values): 0.69059732
noPuget_2014_adSm.ch.in (opt):
Percent Contributed: 2.35
Distance (km): 20.496815
Magnitude: 6.0640678
Epsilon (mean values): 0.68546428
WUSmap_2014_adSm.ch.in (opt):
Percent Contributed: 2.34
Distance (km): 20.493496
Magnitude: 6.0639871
Epsilon (mean values): 0.68536123
noPuget_2014_adSm.gr.in (opt):
Percent Contributed: 2.34
Distance (km): 20.328011
Magnitude: 6.0601981
Epsilon (mean values): 0.68057345
WUSmap_2014_adSm.gr.in (opt):
Percent Contributed: 2.33
Distance (km): 20.324998
Magnitude: 6.0601238
Epsilon (mean values): 0.68047931
PSHA Deaggregation. %contributions.
site: Test
longitude: 119.584°W
latitude: 45.612°E
imt: Peak Ground Acceleration
vs30 = 259 m/s (Site class D)
return period: 2475 yrs.
#This deaggregation corresponds to: GMM: Boore, Stewart, Seyhan & Atkinson (2014)
Summary statistics for PSHA PGA deaggregation, r=distance, ε=epsilon:
Deaggregation targets:
Return period: 2475 yrs
Exceedance rate: 0.0004040404 yr⁻¹
PGA ground motion: 0.23918083 g
Recovered targets:
Return period: 2543.3866 yrs
Exceedance rate: 0.00039317656 yr⁻¹
Totals:
Binned: 31.03 %
Residual: 0 %
Trace: 0.13 %
Mean (over all sources):
m: 6.11
r: 21.4 km
ε₀: 0.53 σ

130	7.9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
110	6.9	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.001					
110	7.1	0.005	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.005					
110	7.3	0.014	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.004	0.010					
110	7.5	0.013	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.009	0.004					
110	7.7	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.002	0.000					
110	7.9	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.001	0.000	0.000					
90	6.3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
90	6.5	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.002					
90	6.7	0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.010					
90	6.9	0.023	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.011	0.013					
90	7.1	0.037	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.032	0.004					
90	7.3	0.046	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.008	0.038	0.000					
90	7.5	0.028	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.017	0.011	0.000					
90	7.7	0.005	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.005	0.000	0.000					
90	7.9	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.001	0.001	0.000	0.000					
70	5.7	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
70	5.9	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.003					
70	6.1	0.016	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.016					
70	6.3	0.035	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.014	0.021					
70	6.5	0.063	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.048	0.015					
70	6.7	0.089	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.014	0.070	0.005					
70	6.9	0.098	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.051	0.046	0.000					
70	7.1	0.134	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.114	0.020	0.000					
70	7.3	0.162	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.066	0.095	0.000	0.000					

70	7.5	0.092	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.059	0.033	0.000	0.000					
70	7.7	0.019	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.019	0.001	0.000	0.000					
70	7.9	0.004	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.002	0.002	0.000	0.000	0.000					
50	5.3	0.006	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.006					
50	5.5	0.071	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.027	0.044					
50	5.7	0.120	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.087	0.033					
50	5.9	0.156	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.013	0.117	0.025					
50	6.1	0.221	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.105	0.109	0.008					
50	6.3	0.242	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.157	0.085	0.000					
50	6.5	0.275	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.037	0.188	0.050	0.000					
50	6.7	0.288	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.105	0.179	0.004	0.000					
50	6.9	0.299	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.179	0.120	0.000	0.000					
50	7.1	0.307	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.028	0.226	0.054	0.000	0.000					
50	7.3	0.274	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.101	0.173	0.000	0.000	0.000					
50	7.5	0.149	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.086	0.063	0.000	0.000	0.000					
50	7.7	0.020	0.000	0.000	0.000	0.000	0.000	0.000	0.001
0.018	0.001	0.000	0.000	0.000					
50	7.9	0.006	0.000	0.000	0.000	0.000	0.000	0.000	0.002
0.004	0.000	0.000	0.000	0.000					
30	5.1	0.211	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.027	0.145	0.039					
30	5.3	0.555	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.052	0.310	0.152	0.041					
30	5.5	1.084	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.017	0.539	0.371	0.157	0.000					
30	5.7	1.106	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.159	0.600	0.290	0.057	0.000					
30	5.9	1.007	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.249	0.470	0.286	0.001	0.000					
30	6.1	0.994	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.437	0.399	0.158	0.000	0.000					
30	6.3	0.962	0.000	0.000	0.000	0.000	0.000	0.000	0.065
0.421	0.410	0.066	0.000	0.000					
30	6.5	0.809	0.000	0.000	0.000	0.000	0.000	0.000	0.111
0.411	0.284	0.002	0.000	0.000					

30	6.7	0.737	0.000	0.000	0.000	0.000	0.000	0.005	0.163
0.381	0.187	0.000	0.000	0.000					
30	6.9	0.699	0.000	0.000	0.000	0.000	0.000	0.022	0.226
0.367	0.083	0.000	0.000	0.000					
30	7.1	0.664	0.000	0.000	0.000	0.000	0.000	0.055	0.316
0.289	0.003	0.000	0.000	0.000					
30	7.3	0.639	0.000	0.000	0.000	0.000	0.000	0.067	0.382
0.190	0.000	0.000	0.000	0.000					
30	7.5	0.327	0.000	0.000	0.000	0.000	0.000	0.073	0.193
0.062	0.000	0.000	0.000	0.000					
30	7.7	0.032	0.000	0.000	0.000	0.000	0.000	0.011	0.021
0.001	0.000	0.000	0.000	0.000					
30	7.9	0.007	0.000	0.000	0.000	0.000	0.000	0.003	0.004
0.000	0.000	0.000	0.000	0.000					
10	5.1	1.988	0.000	0.000	0.000	0.000	0.000	0.436	0.276
0.475	0.536	0.254	0.011	0.000					
10	5.3	2.431	0.000	0.000	0.000	0.000	0.288	0.309	0.623
0.623	0.548	0.040	0.000	0.000					
10	5.5	2.674	0.000	0.000	0.000	0.228	0.264	0.343	0.902
0.868	0.068	0.000	0.000	0.000					
10	5.7	2.103	0.000	0.000	0.000	0.350	0.000	0.540	0.666
0.547	0.000	0.000	0.000	0.000					
10	5.9	1.562	0.000	0.000	0.000	0.245	0.029	0.478	0.588
0.222	0.000	0.000	0.000	0.000					
10	6.1	1.720	0.000	0.000	0.000	0.173	0.338	0.532	0.512
0.165	0.000	0.000	0.000	0.000					
10	6.3	1.330	0.000	0.000	0.000	0.120	0.335	0.490	0.349
0.036	0.000	0.000	0.000	0.000					
10	6.5	1.134	0.000	0.000	0.000	0.095	0.314	0.386	0.339
0.000	0.000	0.000	0.000	0.000					
10	6.7	0.942	0.000	0.000	0.000	0.092	0.268	0.340	0.241
0.000	0.000	0.000	0.000	0.000					
10	6.9	0.753	0.000	0.000	0.000	0.078	0.244	0.311	0.120
0.000	0.000	0.000	0.000	0.000					
10	7.1	0.583	0.000	0.000	0.000	0.055	0.212	0.286	0.031
0.000	0.000	0.000	0.000	0.000					
10	7.3	0.434	0.000	0.000	0.000	0.044	0.175	0.210	0.005
0.000	0.000	0.000	0.000	0.000					
10	7.5	0.182	0.000	0.000	0.000	0.032	0.072	0.078	0.000
0.000	0.000	0.000	0.000	0.000					
10	7.7	0.014	0.000	0.000	0.000	0.003	0.007	0.004	0.000
0.000	0.000	0.000	0.000	0.000					
10	7.9	0.003	0.000	0.000	0.000	0.001	0.002	0.000	0.000
0.000	0.000	0.000	0.000	0.000					

Principal Sources (faults, subduction, random seismicity having > 3% contribution
WUSmap_2014_fixSm.ch.in (opt):

Percent Contributed: 4.11

Distance (km): 21.038988

Magnitude: 6.0922581

Epsilon (mean values): 0.52888121

noPuget_2014_fixSm.ch.in (opt):
Percent Contributed: 4.11
Distance (km): 21.038974
Magnitude: 6.0922579
Epsilon (mean values): 0.5288809
WUSmap_2014_fixSm.gr.in (opt):
Percent Contributed: 4.09
Distance (km): 20.834364
Magnitude: 6.0877962
Epsilon (mean values): 0.52242119
noPuget_2014_fixSm.gr.in (opt):
Percent Contributed: 4.09
Distance (km): 20.83435
Magnitude: 6.087796
Epsilon (mean values): 0.52242088
noPuget_2014_adSm.ch.in (opt):
Percent Contributed: 2.75
Distance (km): 20.806768
Magnitude: 6.0850918
Epsilon (mean values): 0.51638687
WUSmap_2014_adSm.ch.in (opt):
Percent Contributed: 2.74
Distance (km): 20.803656
Magnitude: 6.0850172
Epsilon (mean values): 0.51627461
noPuget_2014_adSm.gr.in (opt):
Percent Contributed: 2.73
Distance (km): 20.628576
Magnitude: 6.0811638
Epsilon (mean values): 0.51070311
WUSmap_2014_adSm.gr.in (opt):
Percent Contributed: 2.73
Distance (km): 20.625783
Magnitude: 6.0810957
Epsilon (mean values): 0.51060107

PSHA Deaggregation. %contributions.

site: Test

longitude: 119.584°W

latitude: 45.612°E

imt: Peak Ground Acceleration

vs30 = 259 m/s (Site class D)

return period: 2475 yrs.

#This deaggregation corresponds to: GMM: Campbell & Bozorgnia (2014)

Summary statistics for PSHA PGA deaggregation, r=distance, ϵ =epsilon:

Deaggregation targets:

Return period: 2475 yrs

Exceedance rate: 0.0004040404 yr⁻¹

PGA ground motion: 0.23918083 g

Recovered targets:

Return period: 2543.3866 yrs

0.000	0.033	0.067	0.000	0.000					
50	7.5	0.057	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.029	0.027	0.000	0.000					
50	7.7	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.007	0.001	0.000	0.000					
50	7.9	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.002	0.000	0.000	0.000					
30	5.1	0.013	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.001	0.012					
30	5.3	0.041	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.021	0.019					
30	5.5	0.092	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.008	0.070	0.014					
30	5.7	0.144	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.067	0.064	0.013					
30	5.9	0.205	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.017	0.123	0.053	0.013					
30	6.1	0.326	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.146	0.127	0.052	0.001					
30	6.3	0.464	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.089	0.218	0.142	0.016	0.000					
30	6.5	0.449	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.166	0.185	0.098	0.000	0.000					
30	6.7	0.384	0.000	0.000	0.000	0.000	0.000	0.000	0.010
0.134	0.172	0.069	0.000	0.000					
30	6.9	0.371	0.000	0.000	0.000	0.000	0.000	0.000	0.023
0.172	0.144	0.032	0.000	0.000					
30	7.1	0.362	0.000	0.000	0.000	0.000	0.000	0.000	0.045
0.185	0.130	0.002	0.000	0.000					
30	7.3	0.355	0.000	0.000	0.000	0.000	0.000	0.000	0.081
0.179	0.094	0.000	0.000	0.000					
30	7.5	0.183	0.000	0.000	0.000	0.000	0.000	0.000	0.056
0.095	0.032	0.000	0.000	0.000					
30	7.7	0.018	0.000	0.000	0.000	0.000	0.000	0.000	0.007
0.010	0.002	0.000	0.000	0.000					
30	7.9	0.004	0.000	0.000	0.000	0.000	0.000	0.000	0.002
0.002	0.000	0.000	0.000	0.000					
10	5.1	0.638	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.244	0.126	0.174	0.087	0.007					
10	5.3	0.807	0.000	0.000	0.000	0.000	0.000	0.000	0.137
0.228	0.238	0.162	0.041	0.000					
10	5.5	0.973	0.000	0.000	0.000	0.000	0.000	0.091	0.240
0.282	0.223	0.136	0.002	0.000					
10	5.7	0.904	0.000	0.000	0.000	0.000	0.000	0.225	0.098
0.303	0.226	0.052	0.000	0.000					
10	5.9	0.808	0.000	0.000	0.000	0.000	0.000	0.176	0.176
0.286	0.169	0.000	0.000	0.000					
10	6.1	1.127	0.000	0.000	0.000	0.000	0.162	0.264	0.336
0.268	0.097	0.000	0.000	0.000					
10	6.3	1.043	0.000	0.000	0.000	0.000	0.202	0.322	0.322

0.197	0.000	0.000	0.000	0.000					
10	6.5	0.979	0.000	0.000	0.000	0.050	0.232	0.313	0.275
0.110	0.000	0.000	0.000	0.000					
10	6.7	0.812	0.000	0.000	0.000	0.093	0.150	0.265	0.218
0.086	0.000	0.000	0.000	0.000					
10	6.9	0.647	0.000	0.000	0.000	0.065	0.152	0.202	0.215
0.013	0.000	0.000	0.000	0.000					
10	7.1	0.497	0.000	0.000	0.000	0.045	0.108	0.178	0.166
0.000	0.000	0.000	0.000	0.000					
10	7.3	0.368	0.000	0.000	0.000	0.032	0.099	0.131	0.106
0.000	0.000	0.000	0.000	0.000					
10	7.5	0.154	0.000	0.000	0.003	0.010	0.043	0.059	0.038
0.000	0.000	0.000	0.000	0.000					
10	7.7	0.012	0.000	0.000	0.000	0.001	0.004	0.006	0.002
0.000	0.000	0.000	0.000	0.000					
10	7.9	0.002	0.000	0.000	0.000	0.000	0.001	0.001	0.000
0.000	0.000	0.000	0.000	0.000					

Principal Sources (faults, subduction, random seismicity having > 3% contribution

WUSmap_2014_fixSm.ch.in (opt):

Percent Contributed: 1.86
 Distance (km): 17.461435
 Magnitude: 6.2864195
 Epsilon (mean values): 0.63498648

noPuget_2014_fixSm.ch.in (opt):

Percent Contributed: 1.86
 Distance (km): 17.461433
 Magnitude: 6.2864194
 Epsilon (mean values): 0.63498645

WUSmap_2014_fixSm.gr.in (opt):

Percent Contributed: 1.86
 Distance (km): 17.323547
 Magnitude: 6.2841396
 Epsilon (mean values): 0.62979036

noPuget_2014_fixSm.gr.in (opt):

Percent Contributed: 1.86
 Distance (km): 17.323545
 Magnitude: 6.2841396
 Epsilon (mean values): 0.62979033

noPuget_2014_adSm.ch.in (opt):

Percent Contributed: 1.25
 Distance (km): 17.260421
 Magnitude: 6.2792895
 Epsilon (mean values): 0.62499796

WUSmap_2014_adSm.ch.in (opt):

Percent Contributed: 1.25
 Distance (km): 17.258366
 Magnitude: 6.2792379
 Epsilon (mean values): 0.62491612

noPuget_2014_adSm.gr.in (opt):

Percent Contributed: 1.24

Distance (km): 17.139757
Magnitude: 6.277277
Epsilon (mean values): 0.62040917
WUSmap_2014_adSm.gr.in (opt):
Percent Contributed: 1.24
Distance (km): 17.137907
Magnitude: 6.2772286
Epsilon (mean values): 0.62033514
PSHA Deaggregation. %contributions.
site: Test
longitude: 119.584°W
latitude: 45.612°E
imt: Peak Ground Acceleration
vs30 = 259 m/s (Site class D)
return period: 2475 yrs.
#This deaggregation corresponds to: GMM: Chiou & Youngs (2014)
Summary statistics for PSHA PGA deaggregation, r=distance, ϵ =epsilon:
Deaggregation targets:
Return period: 2475 yrs
Exceedance rate: 0.0004040404 yr⁻¹
PGA ground motion: 0.23918083 g
Recovered targets:
Return period: 2543.3866 yrs
Exceedance rate: 0.00039317656 yr⁻¹
Totals:
Binned: 23.48 %
Residual: 0 %
Trace: 0.14 %
Mean (over all sources):
m: 6.22
r: 20.02 km
 ϵ_0 : 0.49 σ
Mode (largest m-r bin):
m: 5.1
r: 10.2 km
 ϵ_0 : 0.89 σ
Contribution: 1.82 %
Mode (largest m-r- ϵ_0 bin):
m: 5.09
r: 12.35 km
 ϵ_0 : 1.23 σ
Contribution: 0.57 %
Discretization:
r: min = 0.0, max = 1000.0, Δ = 20.0 km
m: min = 4.4, max = 9.4, Δ = 0.2
 ϵ : min = -3.0, max = 3.0, Δ = 0.5 σ
Epsilon keys:
 ϵ_0 : [- ∞ .. -2.5)
 ϵ_1 : [-2.5 .. -2.0)
 ϵ_2 : [-2.0 .. -1.5)

ϵ_3 : [-1.5 .. -1.0)
 ϵ_4 : [-1.0 .. -0.5)
 ϵ_5 : [-0.5 .. 0.0)
 ϵ_6 : [0.0 .. 0.5)
 ϵ_7 : [0.5 .. 1.0)
 ϵ_8 : [1.0 .. 1.5)
 ϵ_9 : [1.5 .. 2.0)
 ϵ_{10} : [2.0 .. 2.5)
 ϵ_{11} : [2.5 .. $+\infty$)

Closest Distance, rRup (km)				Magnitude (Mw)		ALL_ε	ε=(-∞, -2.5)	ε=[-2.5, -2)	
ε=[-2, -1.5)		ε=[-1.5, -1)		ε=[-1, -0.5)		ε=[-0.5, 0)	ε=[0, 0.5)		
ε=[0.5, 1)		ε=[1, 1.5)		ε=[1.5, 2)		ε=[2, 2.5)	ε=[2.5, ∞)		
210	7.9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
190	7.7	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
190	7.9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
170	7.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
170	7.7	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
170	7.9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
150	7.3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
150	7.5	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.001					
150	7.7	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.001	0.000					
150	7.9	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
130	7.1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
130	7.3	0.005	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.005					
130	7.5	0.007	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.003	0.004					
130	7.7	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.002	0.000					
130	7.9	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.001	0.000	0.000					
110	6.9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
110	7.1	0.006	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.006					
110	7.3	0.021	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.012	0.009					
110	7.5	0.022	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.001	0.021	0.001					

110	7.7	0.005	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.003	0.002	0.000					
110	7.9	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.001	0.000	0.000					
90	6.7	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.001					
90	6.9	0.011	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.002	0.009					
90	7.1	0.031	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.025	0.006					
90	7.3	0.052	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.018	0.033	0.000					
90	7.5	0.037	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.031	0.006	0.000					
90	7.7	0.007	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.003	0.004	0.000	0.000					
90	7.9	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.002	0.000	0.000	0.000					
70	6.1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
70	6.3	0.006	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.006					
70	6.5	0.013	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.001	0.012					
70	6.7	0.030	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.018	0.012					
70	6.9	0.054	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.009	0.041	0.004					
70	7.1	0.103	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.074	0.028	0.000					
70	7.3	0.159	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.058	0.098	0.003	0.000					
70	7.5	0.104	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.076	0.028	0.000	0.000					
70	7.7	0.024	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.009	0.015	0.000	0.000	0.000					
70	7.9	0.005	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.004	0.001	0.000	0.000	0.000					
50	5.3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
50	5.5	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.002					
50	5.7	0.012	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.012					
50	5.9	0.029	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.007	0.021					
50	6.1	0.070	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.051	0.019					
50	6.3	0.103	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.021	0.070	0.012					

50	6.5	0.115	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.056	0.055	0.004					
50	6.7	0.132	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.003	0.078	0.050	0.000					
50	6.9	0.190	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.055	0.121	0.014	0.000					
50	7.1	0.249	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.016	0.148	0.085	0.000	0.000					
50	7.3	0.266	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.103	0.154	0.009	0.000	0.000					
50	7.5	0.161	0.000	0.000	0.000	0.000	0.000	0.000	0.006
0.103	0.051	0.000	0.000	0.000					
50	7.7	0.024	0.000	0.000	0.000	0.000	0.000	0.000	0.008
0.014	0.001	0.000	0.000	0.000					
50	7.9	0.007	0.000	0.000	0.000	0.000	0.000	0.000	0.005
0.002	0.000	0.000	0.000	0.000					
30	5.1	0.190	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.020	0.133	0.036					
30	5.3	0.287	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.122	0.135	0.030					
30	5.5	0.364	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.007	0.216	0.111	0.029					
30	5.7	0.422	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.104	0.222	0.084	0.012					
30	5.9	0.467	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.212	0.169	0.086	0.000					
30	6.1	0.585	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.093	0.276	0.187	0.028	0.000					
30	6.3	0.687	0.000	0.000	0.000	0.000	0.000	0.000	0.022
0.306	0.232	0.125	0.002	0.000					
30	6.5	0.581	0.000	0.000	0.000	0.000	0.000	0.000	0.047
0.225	0.240	0.070	0.000	0.000					
30	6.7	0.546	0.000	0.000	0.000	0.000	0.000	0.000	0.110
0.226	0.174	0.036	0.000	0.000					
30	6.9	0.620	0.000	0.000	0.000	0.000	0.000	0.037	0.197
0.246	0.140	0.000	0.000	0.000					
30	7.1	0.674	0.000	0.000	0.000	0.000	0.000	0.108	0.287
0.253	0.025	0.000	0.000	0.000					
30	7.3	0.706	0.000	0.000	0.000	0.000	0.018	0.225	0.306
0.155	0.002	0.000	0.000	0.000					
30	7.5	0.377	0.000	0.000	0.000	0.000	0.024	0.145	0.176
0.032	0.000	0.000	0.000	0.000					
30	7.7	0.039	0.000	0.000	0.000	0.000	0.006	0.017	0.014
0.001	0.000	0.000	0.000	0.000					
30	7.9	0.008	0.000	0.000	0.000	0.000	0.002	0.005	0.001
0.000	0.000	0.000	0.000	0.000					
10	5.1	1.815	0.000	0.000	0.000	0.000	0.000	0.000	0.532
0.421	0.568	0.287	0.007	0.000					
10	5.3	1.769	0.000	0.000	0.000	0.000	0.000	0.372	0.253
0.537	0.485	0.123	0.000	0.000					

10	5.5	1.603	0.000	0.000	0.000	0.000	0.000	0.355	0.288
0.564	0.385	0.011	0.000	0.000					
10	5.7	1.387	0.000	0.000	0.000	0.000	0.044	0.261	0.476
0.433	0.173	0.000	0.000	0.000					
10	5.9	1.175	0.000	0.000	0.000	0.000	0.207	0.125	0.417
0.386	0.040	0.000	0.000	0.000					
10	6.1	1.496	0.000	0.000	0.000	0.000	0.272	0.478	0.480
0.265	0.000	0.000	0.000	0.000					
10	6.3	1.284	0.000	0.000	0.000	0.096	0.328	0.447	0.348
0.065	0.000	0.000	0.000	0.000					
10	6.5	1.147	0.000	0.000	0.041	0.135	0.315	0.326	0.281
0.049	0.000	0.000	0.000	0.000					
10	6.7	0.976	0.000	0.000	0.062	0.144	0.283	0.257	0.221
0.009	0.000	0.000	0.000	0.000					
10	6.9	0.821	0.000	0.007	0.050	0.134	0.275	0.282	0.073
0.000	0.000	0.000	0.000	0.000					
10	7.1	0.656	0.000	0.010	0.034	0.154	0.246	0.204	0.007
0.000	0.000	0.000	0.000	0.000					
10	7.3	0.497	0.000	0.010	0.045	0.140	0.202	0.099	0.000
0.000	0.000	0.000	0.000	0.000					
10	7.5	0.210	0.000	0.006	0.020	0.071	0.089	0.024	0.000
0.000	0.000	0.000	0.000	0.000					
10	7.7	0.017	0.000	0.001	0.003	0.007	0.006	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
10	7.9	0.003	0.000	0.000	0.001	0.002	0.001	0.000	0.000
0.000	0.000	0.000	0.000	0.000					

Principal Sources (faults, subduction, random seismicity having > 3% contribution

WUSmap_2014_fixSm.ch.in (opt):

Percent Contributed: 3.09
 Distance (km): 19.44711
 Magnitude: 6.2004203
 Epsilon (mean values): 0.49173611

noPuget_2014_fixSm.ch.in (opt):

Percent Contributed: 3.09
 Distance (km): 19.447046
 Magnitude: 6.2004195
 Epsilon (mean values): 0.49173485

WUSmap_2014_fixSm.gr.in (opt):

Percent Contributed: 3.08
 Distance (km): 19.274474
 Magnitude: 6.1968942
 Epsilon (mean values): 0.48607165

noPuget_2014_fixSm.gr.in (opt):

Percent Contributed: 3.08
 Distance (km): 19.274409
 Magnitude: 6.1968935
 Epsilon (mean values): 0.48607038

noPuget_2014_adSm.ch.in (opt):

Percent Contributed: 2.07
 Distance (km): 19.25795

Magnitude: 6.1924708
Epsilon (mean values): 0.48289157
WUSmap_2014_adSm.ch.in (opt):
Percent Contributed: 2.07
Distance (km): 19.254658
Magnitude: 6.1923885
Epsilon (mean values): 0.48279236
noPuget_2014_adSm.gr.in (opt):
Percent Contributed: 2.06
Distance (km): 19.109593
Magnitude: 6.189399
Epsilon (mean values): 0.47795816
WUSmap_2014_adSm.gr.in (opt):
Percent Contributed: 2.06
Distance (km): 19.106561
Magnitude: 6.1893216
Epsilon (mean values): 0.47786764
PSHA Deaggregation. %contributions.
site: Test
longitude: 119.584°W
latitude: 45.612°E
imt: Peak Ground Acceleration
vs30 = 259 m/s (Site class D)
return period: 2475 yrs.
#This deaggregation corresponds to: GMM: Atkinson & Macias (2009) : Interface
Summary statistics for PSHA PGA deaggregation, r=distance, ϵ =epsilon:
Deaggregation targets:
Return period: 2475 yrs
Exceedance rate: 0.0004040404 yr⁻¹
PGA ground motion: 0.23918083 g
Recovered targets:
Return period: 2543.3866 yrs
Exceedance rate: 0.00039317656 yr⁻¹
Totals:
Binned: 0 %
Residual: 0 %
Trace: 0 %
Mean (over all sources):
m: null
r: null km
 ϵ_0 : null σ
Mode (largest m-r bin):
m: null
r: null km
 ϵ_0 : null σ
Contribution: 0 %
Mode (largest m-r- ϵ_0 bin):
m: null
r: null km
 ϵ_0 : null σ

Contribution: 0 %

Discretization:

r: min = 0.0, max = 1000.0, Δ = 20.0 km

m: min = 4.4, max = 9.4, Δ = 0.2

ϵ : min = -3.0, max = 3.0, Δ = 0.5 σ

Epsilon keys:

ϵ_0 : $[-\infty \dots -2.5)$

ϵ_1 : $[-2.5 \dots -2.0)$

ϵ_2 : $[-2.0 \dots -1.5)$

ϵ_3 : $[-1.5 \dots -1.0)$

ϵ_4 : $[-1.0 \dots -0.5)$

ϵ_5 : $[-0.5 \dots 0.0)$

ϵ_6 : $[0.0 \dots 0.5)$

ϵ_7 : $[0.5 \dots 1.0)$

ϵ_8 : $[1.0 \dots 1.5)$

ϵ_9 : $[1.5 \dots 2.0)$

ϵ_{10} : $[2.0 \dots 2.5)$

ϵ_{11} : $[2.5 \dots +\infty)$

Closest Distance, rRup (km)	Magnitude (Mw)	ALL_ ϵ	$\epsilon = (-\infty, -2.5)$	$\epsilon = [-2.5, -2)$
$\epsilon = [-2, -1.5)$	$\epsilon = [-1.5, -1)$	$\epsilon = [-1, -0.5)$	$\epsilon = [-0.5, 0)$	$\epsilon = [0, 0.5)$
$\epsilon = [0.5, 1)$	$\epsilon = [1, 1.5)$	$\epsilon = [1.5, 2)$	$\epsilon = [2, 2.5)$	$\epsilon = [2.5, \infty)$

Principal Sources (faults, subduction, random seismicity having > 3% contribution PSHA Deaggregation. %contributions.

site: Test

longitude: 119.584°W

latitude: 45.612°E

imt: Peak Ground Acceleration

vs30 = 259 m/s (Site class D)

return period: 2475 yrs.

#This deaggregation corresponds to: GMM: BC Hydro (2012) : Interface

Summary statistics for PSHA PGA deaggregation, r=distance, ϵ =epsilon:

Deaggregation targets:

Return period: 2475 yrs

Exceedance rate: 0.0004040404 yr⁻¹

PGA ground motion: 0.23918083 g

Recovered targets:

Return period: 2543.3866 yrs

Exceedance rate: 0.00039317656 yr⁻¹

Totals:

Binned: 4.27 %

Residual: 0 %

Trace: 0.02 %

Mean (over all sources):

m: 8.99

r: 332.99 km

ϵ_0 : 1.91 σ

Mode (largest m-r bin):

m: 9.34

r: 308.17 km

ϵ_0 : 1.52 σ
 Contribution: 1.02 %
 Mode (largest m-r- ϵ_0 bin):
 m: 9.34
 r: 308.17 km
 ϵ_0 : 1.52 σ
 Contribution: 1.02 %

Discretization:
 r: min = 0.0, max = 1000.0, Δ = 20.0 km
 m: min = 4.4, max = 9.4, Δ = 0.2
 ϵ : min = -3.0, max = 3.0, Δ = 0.5 σ

Epsilon keys:

- ϵ_0 : [- ∞ .. -2.5)
- ϵ_1 : [-2.5 .. -2.0)
- ϵ_2 : [-2.0 .. -1.5)
- ϵ_3 : [-1.5 .. -1.0)
- ϵ_4 : [-1.0 .. -0.5)
- ϵ_5 : [-0.5 .. 0.0)
- ϵ_6 : [0.0 .. 0.5)
- ϵ_7 : [0.5 .. 1.0)
- ϵ_8 : [1.0 .. 1.5)
- ϵ_9 : [1.5 .. 2.0)
- ϵ_{10} : [2.0 .. 2.5)
- ϵ_{11} : [2.5 .. + ∞]

Closest Distance, rRup (km)		Magnitude (Mw)		ALL_ ϵ	$\epsilon = (-\infty, -2.5)$	$\epsilon = [-2.5, -2)$
$\epsilon = [-2, -1.5)$	$\epsilon = [-1.5, -1)$	$\epsilon = [-1, -0.5)$	$\epsilon = [-0.5, 0)$	$\epsilon = [-0.5, 0)$	$\epsilon = [0, 0.5)$	$\epsilon = [0, 0.5)$
$\epsilon = [0.5, 1)$	$\epsilon = [1, 1.5)$	$\epsilon = [1.5, 2)$	$\epsilon = [2, 2.5)$	$\epsilon = [2, 2.5)$	$\epsilon = [2.5, \infty)$	$\epsilon = [2.5, \infty)$
450	8.5	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000
430	8.3	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000
430	8.5	0.001	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.001	0.000	0.000
410	8.1	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000
410	8.3	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000
410	8.5	0.003	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.003	0.000	0.000
390	7.9	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000
390	8.1	0.002	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.002	0.000	0.000
390	8.3	0.023	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.023	0.000	0.000
390	8.5	0.036	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.003	0.033	0.000	0.000
390	8.7	0.182	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.182	0.000	0.000	0.000
390	9.1	0.148	0.000	0.000	0.000	0.000

0.000 0.000 1.021 0.000 0.000

Principal Sources (faults, subduction, random seismicity having > 3% contribution
sub0_ch_bot.in:

Percent Contributed: 2.14
Distance (km): 308.17316
Magnitude: 9.1309914
Epsilon (mean values): 1.6619011

Cascadia Megathrust - whole CSZ Characteristic:

Percent Contributed: 2.14
Distance (km): 308.17316
Magnitude: 9.1309914
Epsilon (mean values): 1.6619011
Azimuth: 285.86185
Latitude: 46.3
Longitude: -123.4132

sub0_ch_mid.in:

Percent Contributed: 1.22
Distance (km): 361.47413
Magnitude: 8.9446817
Epsilon (mean values): 2.1010198

Cascadia Megathrust - whole CSZ Characteristic:

Percent Contributed: 1.22
Distance (km): 361.47413
Magnitude: 8.9446817
Epsilon (mean values): 2.1010198
Azimuth: 283.89391
Latitude: 46.3
Longitude: -124.13677

PSHA Deaggregation. %contributions.

site: Test

longitude: 119.584°W

latitude: 45.612°E

imt: Peak Ground Acceleration

vs30 = 259 m/s (Site class D)

return period: 2475 yrs.

#This deaggregation corresponds to: GMM: BC Hydro (2012) : Slab

Summary statistics for PSHA PGA deaggregation, r=distance, ε=epsilon:

Deaggregation targets:

Return period: 2475 yrs
Exceedance rate: 0.0004040404 yr⁻¹
PGA ground motion: 0.23918083 g

Recovered targets:

Return period: 2543.3866 yrs
Exceedance rate: 0.00039317656 yr⁻¹

Totals:

Binned: 0.28 %
Residual: 0 %
Trace: 0.07 %

Mean (over all sources):

m: 7.26

r: 233.78 km
 ϵ_0 : 2.24 σ
Mode (largest m-r bin):
m: 7.11
r: 229.9 km
 ϵ_0 : 2.43 σ
Contribution: 0.04 %

Mode (largest m-r- ϵ_0 bin):
m: 7.13
r: 228.4 km
 ϵ_0 : 2.37 σ
Contribution: 0.03 %

Discretization:
r: min = 0.0, max = 1000.0, Δ = 20.0 km
m: min = 4.4, max = 9.4, Δ = 0.2
 ϵ : min = -3.0, max = 3.0, Δ = 0.5 σ

Epsilon keys:
 ϵ_0 : [- ∞ .. -2.5)
 ϵ_1 : [-2.5 .. -2.0)
 ϵ_2 : [-2.0 .. -1.5)
 ϵ_3 : [-1.5 .. -1.0)
 ϵ_4 : [-1.0 .. -0.5)
 ϵ_5 : [-0.5 .. 0.0)
 ϵ_6 : [0.0 .. 0.5)
 ϵ_7 : [0.5 .. 1.0)
 ϵ_8 : [1.0 .. 1.5)
 ϵ_9 : [1.5 .. 2.0)
 ϵ_{10} : [2.0 .. 2.5)
 ϵ_{11} : [2.5 .. + ∞]

Closest Distance, rRup (km)				Magnitude (Mw)		ALL_ ϵ	$\epsilon=(-\infty, -2.5)$	$\epsilon=[-2.5, -2)$	
$\epsilon=[-2, -1.5)$	$\epsilon=[-1.5, -1)$	$\epsilon=[-1, -0.5)$	$\epsilon=[-0.5, 0)$	$\epsilon=[-1, -0.5)$	$\epsilon=[-0.5, 0)$	$\epsilon=[-0.5, 0)$	$\epsilon=[0, 0.5)$	$\epsilon=[0, 0.5)$	
$\epsilon=[0.5, 1)$	$\epsilon=[1, 1.5)$	$\epsilon=[1.5, 2)$	$\epsilon=[2, 2.5)$	$\epsilon=[1.5, 2)$	$\epsilon=[2, 2.5)$	$\epsilon=[2, 2.5)$	$\epsilon=[2.5, \infty)$	$\epsilon=[2.5, \infty)$	
290	7.1	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.001					
290	7.3	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.002					
290	7.5	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.002	0.000					
270	7.1	0.014	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.014					
270	7.3	0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.004	0.006					
270	7.5	0.011	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.011	0.000					
270	7.7	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.001	0.001	0.000					
270	7.9	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.001	0.000	0.000					
250	6.9	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.001					

250	7.1	0.037	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.006	0.030					
250	7.3	0.013	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.012	0.001					
250	7.5	0.014	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.006	0.008	0.000					
250	7.7	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.003	0.000	0.000					
250	7.9	0.004	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.004	0.000	0.000					
230	6.9	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.008					
230	7.1	0.043	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.031	0.012					
230	7.3	0.012	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.003	0.008	0.000					
230	7.5	0.011	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.010	0.001	0.000					
230	7.7	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.001	0.002	0.000	0.000					
230	7.9	0.004	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.002	0.001	0.000	0.000					
210	6.7	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
210	6.9	0.007	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.002	0.006					
210	7.1	0.030	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.001	0.029	0.000					
210	7.3	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.007	0.001	0.000					
210	7.5	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.002	0.006	0.000	0.000					
210	7.7	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.002	0.000	0.000	0.000					
210	7.9	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.003	0.000	0.000	0.000					
190	6.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
190	6.7	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.001					
190	6.9	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.002	0.000					
190	7.1	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.006	0.002	0.000					
190	7.3	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.002	0.000	0.000					
190	7.5	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.002	0.000	0.000	0.000					
190	7.7	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.001	0.000	0.000	0.000					

130	6.9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130	7.1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130	7.3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130	7.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130	7.7	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130	7.9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110	5.9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110	6.1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110	6.3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110	6.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110	6.7	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110	6.9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110	7.1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110	7.3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110	7.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110	7.7	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110	7.9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
90	7.3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
90	7.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
90	7.7	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
90	7.9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Principal Sources (faults, subduction, random seismicity having > 3% contribution
PSHA Deaggregation. %contributions.

site: Test

longitude: 119.584°W

latitude: 45.612°E

imt: Peak Ground Acceleration

vs30 = 259 m/s (Site class D)

return period: 2475 yrs.

#This deaggregation corresponds to: GMM: Zhao et al. (2006) : Interface
 Summary statistics for PSHA PGA deaggregation, r=distance, ε=epsilon:

Deaggregation targets:

Return period: 2475 yrs
 Exceedance rate: 0.0004040404 yr⁻¹
 PGA ground motion: 0.23918083 g

Recovered targets:

Return period: 2543.3866 yrs
 Exceedance rate: 0.00039317656 yr⁻¹

Totals:

Binned: 0.32 %
 Residual: 0 %
 Trace: 0 %

Mean (over all sources):

m: 9.22
 r: 308.23 km
 ε₀: 2.31 σ

Mode (largest m-r bin):

m: 9.34
 r: 308.17 km
 ε₀: 2.18 σ
 Contribution: 0.22 %

Mode (largest m-r-ε₀ bin):

m: 9.34
 r: 308.17 km
 ε₀: 2.18 σ
 Contribution: 0.22 %

Discretization:

r: min = 0.0, max = 1000.0, Δ = 20.0 km
 m: min = 4.4, max = 9.4, Δ = 0.2
 ε: min = -3.0, max = 3.0, Δ = 0.5 σ

Epsilon keys:

ε₀: [-∞ .. -2.5)
 ε₁: [-2.5 .. -2.0)
 ε₂: [-2.0 .. -1.5)
 ε₃: [-1.5 .. -1.0)
 ε₄: [-1.0 .. -0.5)
 ε₅: [-0.5 .. 0.0)
 ε₆: [0.0 .. 0.5)
 ε₇: [0.5 .. 1.0)
 ε₈: [1.0 .. 1.5)
 ε₉: [1.5 .. 2.0)
 ε₁₀: [2.0 .. 2.5)
 ε₁₁: [2.5 .. +∞)

Closest Distance, rRup (km)		Magnitude (Mw)		ALL_ε	ε=(-∞, -2.5)	ε=[-2.5, -2)
ε=[-2, -1.5)	ε=[-1.5, -1)	ε=[-1, -0.5)	ε=[-0.5, 0)	ε=[-0.5, 0)	ε=[0, 0.5)	
ε=[0.5, 1)	ε=[1, 1.5)	ε=[1.5, 2)	ε=[2, 2.5)	ε=[2, 2.5)	ε=[2.5, ∞)	
330	8.9	0.001	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.001		
310	8.7	0.001	0.000	0.000	0.000	0.000

0.000	0.000	0.000	0.000	0.001					
310	8.9	0.031	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.031					
310	9.1	0.070	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.005	0.066					
310	9.3	0.217	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.217	0.000					

Principal Sources (faults, subduction, random seismicity having > 3% contribution
PSHA Deaggregation. %contributions.

site: Test

longitude: 119.584°W

latitude: 45.612°E

imt: Peak Ground Acceleration

vs30 = 259 m/s (Site class D)

return period: 2475 yrs.

#This deaggregation corresponds to: GMM: Zhao et al. (2006) : Slab

Summary statistics for PSHA PGA deaggregation, r=distance, ϵ =epsilon:

Deaggregation targets:

Return period: 2475 yrs

Exceedance rate: 0.0004040404 yr⁻¹

PGA ground motion: 0.23918083 g

Recovered targets:

Return period: 2543.3866 yrs

Exceedance rate: 0.00039317656 yr⁻¹

Totals:

Binned: 0.01 %

Residual: 0 %

Trace: 0.05 %

Mean (over all sources):

m: 7.77

r: 204.93 km

ϵ_0 : 1.95 σ

Mode (largest m-r bin):

m: 7.91

r: 209.56 km

ϵ_0 : 1.75 σ

Contribution: 0 %

Mode (largest m-r- ϵ_0 bin):

m: 7.91

r: 209.49 km

ϵ_0 : 1.74 σ

Contribution: 0 %

Discretization:

r: min = 0.0, max = 1000.0, Δ = 20.0 km

m: min = 4.4, max = 9.4, Δ = 0.2

ϵ : min = -3.0, max = 3.0, Δ = 0.5 σ

Epsilon keys:

ϵ_0 : [- ∞ .. -2.5)

ϵ_1 : [-2.5 .. -2.0)

ϵ_2 : [-2.0 .. -1.5)

ϵ_3 : [-1.5 .. -1.0)
 ϵ_4 : [-1.0 .. -0.5)
 ϵ_5 : [-0.5 .. 0.0)
 ϵ_6 : [0.0 .. 0.5)
 ϵ_7 : [0.5 .. 1.0)
 ϵ_8 : [1.0 .. 1.5)
 ϵ_9 : [1.5 .. 2.0)
 ϵ_{10} : [2.0 .. 2.5)
 ϵ_{11} : [2.5 .. $+\infty$)

Closest Distance, rRup (km)				Magnitude (Mw)		ALL_ε	ε=(-∞, -2.5)	ε=[-2.5, -2)	
ε=[-2, -1.5)		ε=[-1.5, -1)		ε=[-1, -0.5)		ε=[-0.5, 0)	ε=[0, 0.5)		
ε=[0.5, 1)		ε=[1, 1.5)		ε=[1.5, 2)		ε=[2, 2.5)	ε=[2.5, ∞)		
270	7.7	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
270	7.9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
250	7.7	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
250	7.9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
230	7.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
230	7.7	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
230	7.9	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.001	0.000					
210	7.3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
210	7.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
210	7.7	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
210	7.9	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.001	0.000	0.000					
190	7.1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
190	7.3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
190	7.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
190	7.7	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
190	7.9	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.001	0.000	0.000	0.000					
170	6.9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
170	7.1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
170	7.3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					

110	7.3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110	7.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110	7.7	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110	7.9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
90	7.3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
90	7.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
90	7.7	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
90	7.9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Principal Sources (faults, subduction, random seismicity having > 3% contribution
PSHA Deaggregation. %contributions.

site: Test

longitude: 119.584°W

latitude: 45.612°E

imt: Peak Ground Acceleration

vs30 = 259 m/s (Site class D)

return period: 2475 yrs.

#This deaggregation corresponds to: Source Type: Grid

Summary statistics for PSHA PGA deaggregation, r=distance, ε=epsilon:

Deaggregation targets:

Return period: 2475 yrs

Exceedance rate: 0.0004040404 yr⁻¹

PGA ground motion: 0.23918083 g

Recovered targets:

Return period: 2543.3866 yrs

Exceedance rate: 0.00039317656 yr⁻¹

Totals:

Binned: 94.32 %

Residual: 0 %

Trace: 0.2 %

Mean (over all sources):

m: 6.15

r: 20.06 km

ε₀: 0.57 σ

Mode (largest m-r bin):

m: 5.3

r: 10.81 km

ε₀: 0.63 σ

Contribution: 7.19 %

Mode (largest m-r-ε₀ bin):

m: 5.5

r: 13.56 km

ε₀: 0.73 σ

1.112	1.028	0.198	0.000	0.000					
30	6.7	2.228	0.000	0.000	0.000	0.000	0.000	0.005	0.324
1.026	0.766	0.107	0.000	0.000					
30	6.9	2.258	0.000	0.000	0.000	0.000	0.000	0.059	0.565
1.088	0.515	0.032	0.000	0.000					
30	7.1	2.264	0.000	0.000	0.000	0.000	0.000	0.164	0.876
1.035	0.188	0.002	0.000	0.000					
30	7.3	2.264	0.000	0.000	0.000	0.000	0.018	0.304	1.077
0.769	0.096	0.000	0.000	0.000					
30	7.5	1.185	0.000	0.000	0.000	0.000	0.024	0.253	0.609
0.267	0.032	0.000	0.000	0.000					
30	7.7	0.120	0.000	0.000	0.000	0.000	0.006	0.035	0.064
0.013	0.002	0.000	0.000	0.000					
30	7.9	0.026	0.000	0.000	0.000	0.000	0.002	0.011	0.011
0.002	0.000	0.000	0.000	0.000					
10	5.1	7.097	0.000	0.000	0.000	0.000	0.000	1.081	1.125
1.863	2.083	0.835	0.105	0.007					
10	5.3	7.192	0.000	0.000	0.000	0.000	0.288	1.168	1.312
2.180	1.870	0.333	0.041	0.000					
10	5.5	7.043	0.000	0.000	0.000	0.228	0.264	1.154	1.791
2.402	1.055	0.146	0.002	0.000					
10	5.7	5.856	0.000	0.000	0.000	0.350	0.130	1.277	1.659
1.839	0.548	0.052	0.000	0.000					
10	5.9	4.727	0.000	0.000	0.000	0.245	0.442	0.881	1.592
1.337	0.231	0.000	0.000	0.000					
10	6.1	5.766	0.000	0.000	0.000	0.173	1.017	1.624	1.857
0.998	0.097	0.000	0.000	0.000					
10	6.3	4.852	0.000	0.000	0.000	0.216	1.121	1.693	1.447
0.375	0.000	0.000	0.000	0.000					
10	6.5	4.295	0.000	0.000	0.041	0.362	1.078	1.363	1.235
0.217	0.000	0.000	0.000	0.000					
10	6.7	3.593	0.000	0.000	0.062	0.423	0.882	1.161	0.952
0.112	0.000	0.000	0.000	0.000					
10	6.9	2.931	0.000	0.007	0.050	0.343	0.871	1.042	0.604
0.013	0.000	0.000	0.000	0.000					
10	7.1	2.293	0.000	0.010	0.034	0.301	0.738	0.943	0.266
0.000	0.000	0.000	0.000	0.000					
10	7.3	1.718	0.000	0.010	0.045	0.266	0.613	0.659	0.125
0.000	0.000	0.000	0.000	0.000					
10	7.5	0.724	0.000	0.006	0.026	0.136	0.265	0.252	0.038
0.000	0.000	0.000	0.000	0.000					
10	7.7	0.057	0.000	0.001	0.003	0.013	0.024	0.016	0.002
0.000	0.000	0.000	0.000	0.000					
10	7.9	0.012	0.000	0.000	0.001	0.003	0.005	0.002	0.000
0.000	0.000	0.000	0.000	0.000					

Principal Sources (faults, subduction, random seismicity having > 3% contribution
WUSmap_2014_fixSm.ch.in (opt):

Percent Contributed: 12.59

Distance (km): 20.027829

Magnitude: 6.1417279

Epsilon (mean values): 0.58219957
PointSourceFinite: -119.584, 45.697:
Percent Contributed: 1.42
Distance (km): 10.272861
Magnitude: 5.8157071
Epsilon (mean values): 0.14986318
Azimuth: 0
Latitude: 45.697435
Longitude: -119.584
PointSourceFinite: -119.584, 45.625:
Percent Contributed: 1.25
Distance (km): 5.2763564
Magnitude: 5.6407563
Epsilon (mean values): -0.46425568
Azimuth: 0
Latitude: 45.62549
Longitude: -119.584
noPuget_2014_fixSm.ch.in (opt):
Percent Contributed: 12.59
Distance (km): 20.0278
Magnitude: 6.1417276
Epsilon (mean values): 0.58219901
PointSourceFinite: -119.584, 45.697:
Percent Contributed: 1.42
Distance (km): 10.272861
Magnitude: 5.8157071
Epsilon (mean values): 0.14986318
Azimuth: 0
Latitude: 45.697435
Longitude: -119.584
PointSourceFinite: -119.584, 45.625:
Percent Contributed: 1.25
Distance (km): 5.2763564
Magnitude: 5.6407563
Epsilon (mean values): -0.46425568
Azimuth: 0
Latitude: 45.62549
Longitude: -119.584
WUSmap_2014_fixSm.gr.in (opt):
Percent Contributed: 12.53
Distance (km): 19.842853
Magnitude: 6.1378796
Epsilon (mean values): 0.57636951
PointSourceFinite: -119.584, 45.697:
Percent Contributed: 1.42
Distance (km): 10.272861
Magnitude: 5.8157071
Epsilon (mean values): 0.14986318
Azimuth: 0
Latitude: 45.697435

Longitude: -119.584
PointSourceFinite: -119.584, 45.625:
Percent Contributed: 1.25
Distance (km): 5.2763564
Magnitude: 5.6407563
Epsilon (mean values): -0.46425568
Azimuth: 0
Latitude: 45.62549
Longitude: -119.584
noPuget_2014_fixSm.gr.in (opt):
Percent Contributed: 12.53
Distance (km): 19.842824
Magnitude: 6.1378792
Epsilon (mean values): 0.57636895
PointSourceFinite: -119.584, 45.697:
Percent Contributed: 1.42
Distance (km): 10.272861
Magnitude: 5.8157071
Epsilon (mean values): 0.14986318
Azimuth: 0
Latitude: 45.697435
Longitude: -119.584
PointSourceFinite: -119.584, 45.625:
Percent Contributed: 1.25
Distance (km): 5.2763564
Magnitude: 5.6407563
Epsilon (mean values): -0.46425568
Azimuth: 0
Latitude: 45.62549
Longitude: -119.584
noPuget_2014_adSm.ch.in (opt):
Percent Contributed: 8.41
Distance (km): 19.812841
Magnitude: 6.134462
Epsilon (mean values): 0.57147232
WUSmap_2014_adSm.ch.in (opt):
Percent Contributed: 8.4
Distance (km): 19.80977
Magnitude: 6.134388
Epsilon (mean values): 0.57137047
noPuget_2014_adSm.gr.in (opt):
Percent Contributed: 8.38
Distance (km): 19.652474
Magnitude: 6.1310878
Epsilon (mean values): 0.56636004
WUSmap_2014_adSm.gr.in (opt):
Percent Contributed: 8.37
Distance (km): 19.649689
Magnitude: 6.1310193
Epsilon (mean values): 0.56626731

WUSmap_2014_fixSm_M8.in (opt):
Percent Contributed: 3.11
Distance (km): 21.81981
Magnitude: 6.2707025
Epsilon (mean values): 0.56813838
noPuget_2014_fixSm_M8.in (opt):
Percent Contributed: 3.11
Distance (km): 21.818866
Magnitude: 6.2706912
Epsilon (mean values): 0.56812438
noPuget_2014_adSm_M8.in (opt):
Percent Contributed: 2.07
Distance (km): 21.609283
Magnitude: 6.2620429
Epsilon (mean values): 0.55837717
WUSmap_2014_adSm_M8.in (opt):
Percent Contributed: 2.07
Distance (km): 21.603574
Magnitude: 6.2618988
Epsilon (mean values): 0.55823539
PSHA Deaggregation. %contributions.
site: Test
longitude: 119.584°W
latitude: 45.612°E
imt: Peak Ground Acceleration
vs30 = 259 m/s (Site class D)
return period: 2475 yrs.
#This deaggregation corresponds to: Source Type: Slab
Summary statistics for PSHA PGA deaggregation, r=distance, ϵ =epsilon:
Deaggregation targets:
Return period: 2475 yrs
Exceedance rate: 0.0004040404 yr⁻¹
PGA ground motion: 0.23918083 g
Recovered targets:
Return period: 2543.3866 yrs
Exceedance rate: 0.00039317656 yr⁻¹
Totals:
Binned: 0.28 %
Residual: 0 %
Trace: 0.16 %
Mean (over all sources):
m: 7.27
r: 233.27 km
 ϵ_0 : 2.23 σ
Mode (largest m-r bin):
m: 7.11
r: 229.9 km
 ϵ_0 : 2.43 σ
Contribution: 0.04 %
Mode (largest m-r- ϵ_0 bin):

m: 7.13
 r: 228.4 km
 ϵ_0 : 2.37 σ
 Contribution: 0.03 %

Discretization:

r: min = 0.0, max = 1000.0, Δ = 20.0 km
 m: min = 4.4, max = 9.4, Δ = 0.2
 ϵ : min = -3.0, max = 3.0, Δ = 0.5 σ

Epsilon keys:

- ϵ_0 : $[-\infty \dots -2.5)$
- ϵ_1 : $[-2.5 \dots -2.0)$
- ϵ_2 : $[-2.0 \dots -1.5)$
- ϵ_3 : $[-1.5 \dots -1.0)$
- ϵ_4 : $[-1.0 \dots -0.5)$
- ϵ_5 : $[-0.5 \dots 0.0)$
- ϵ_6 : $[0.0 \dots 0.5)$
- ϵ_7 : $[0.5 \dots 1.0)$
- ϵ_8 : $[1.0 \dots 1.5)$
- ϵ_9 : $[1.5 \dots 2.0)$
- ϵ_{10} : $[2.0 \dots 2.5)$
- ϵ_{11} : $[2.5 \dots +\infty)$

Closest Distance, rRup (km)				Magnitude (Mw)		ALL_ ϵ	$\epsilon=(-\infty, -2.5)$	$\epsilon=[-2.5, -2)$	
$\epsilon=[-2, -1.5)$	$\epsilon=[-1.5, -1)$	$\epsilon=[-1, -0.5)$	$\epsilon=[-0.5, 0)$	$\epsilon=[0, 0.5)$	$\epsilon=[0.5, 1)$	$\epsilon=[1, 1.5)$	$\epsilon=[1.5, 2)$	$\epsilon=[2, 2.5)$	$\epsilon=[2.5, \infty)$
290	7.1	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.001					
290	7.3	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.002					
290	7.5	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.002	0.000					
270	7.1	0.014	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.014					
270	7.3	0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.004	0.006					
270	7.5	0.011	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.011	0.000					
270	7.7	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.001	0.001	0.000					
270	7.9	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.001	0.000	0.000					
250	6.9	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.001					
250	7.1	0.037	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.006	0.030					
250	7.3	0.013	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.012	0.001					
250	7.5	0.014	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.006	0.008	0.000					
250	7.7	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.003	0.000	0.000					

250	7.9	0.004	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.004	0.000	0.000					
230	6.9	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.008					
230	7.1	0.043	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.031	0.012					
230	7.3	0.012	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.003	0.008	0.000					
230	7.5	0.011	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.010	0.001	0.000					
230	7.7	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.001	0.002	0.000	0.000					
230	7.9	0.005	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.002	0.002	0.001	0.000					
210	6.7	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
210	6.9	0.007	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.002	0.006					
210	7.1	0.030	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.001	0.029	0.000					
210	7.3	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.007	0.001	0.000					
210	7.5	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.002	0.006	0.000	0.000					
210	7.7	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.002	0.000	0.000	0.000					
210	7.9	0.004	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.003	0.001	0.000	0.000					
190	6.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
190	6.7	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.001					
190	6.9	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.002	0.000					
190	7.1	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.006	0.002	0.000					
190	7.3	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.002	0.000	0.000					
190	7.5	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.002	0.000	0.000	0.000					
190	7.7	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.001	0.000	0.000	0.000					
190	7.9	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.001	0.001	0.000	0.000	0.000					
170	6.3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
170	6.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
170	6.7	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					

130	7.7	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130	7.9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110	5.9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110	6.1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110	6.3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110	6.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110	6.7	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110	6.9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110	7.1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110	7.3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110	7.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110	7.7	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110	7.9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
90	7.3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
90	7.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
90	7.7	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
90	7.9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Principal Sources (faults, subduction, random seismicity having > 3% contribution
PSHA Deaggregation. %contributions.

site: Test

longitude: 119.584°W

latitude: 45.612°E

imt: Peak Ground Acceleration

vs30 = 259 m/s (Site class D)

return period: 2475 yrs.

#This deaggregation corresponds to: Source Type: Interface

Summary statistics for PSHA PGA deaggregation, r=distance, ε=epsilon:

Deaggregation targets:

Return period: 2475 yrs

Exceedance rate: 0.0004040404 yr⁻¹

PGA ground motion: 0.23918083 g

Recovered targets:

Return period: 2543.3866 yrs

0.000	0.000	0.000	0.011	0.000					
310	8.3	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.008	0.000					
310	8.5	0.059	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.059	0.000					
310	8.7	0.092	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.065	0.026	0.001					
310	8.9	0.554	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.523	0.000	0.031					
310	9.1	0.740	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.669	0.005	0.066					
310	9.3	1.238	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	1.021	0.217	0.000					

Principal Sources (faults, subduction, random seismicity having > 3% contribution
sub0_ch_bot.in:

Percent Contributed: 2.45
Distance (km): 308.17316
Magnitude: 9.1430242
Epsilon (mean values): 1.7433173

Cascadia Megathrust - whole CSZ Characteristic:

Percent Contributed: 2.45
Distance (km): 308.17316
Magnitude: 9.1430242
Epsilon (mean values): 1.7433173
Azimuth: 285.86185
Latitude: 46.3
Longitude: -123.4132

sub0_ch_mid.in:

Percent Contributed: 1.22
Distance (km): 361.47413
Magnitude: 8.9446817
Epsilon (mean values): 2.1010198

Cascadia Megathrust - whole CSZ Characteristic:

Percent Contributed: 1.22
Distance (km): 361.47413
Magnitude: 8.9446817
Epsilon (mean values): 2.1010198
Azimuth: 283.89391
Latitude: 46.3
Longitude: -124.13677

PSHA Deaggregation. %contributions.

site: Test

longitude: 119.584°W

latitude: 45.612°E

imt: Peak Ground Acceleration

vs30 = 259 m/s (Site class D)

return period: 2475 yrs.

#This deaggregation corresponds to: Source Type: Fault

Summary statistics for PSHA PGA deaggregation, r=distance, ε=epsilon:

Deaggregation targets:

Return period: 2475 yrs
 Exceedance rate: 0.0004040404 yr⁻¹
 PGA ground motion: 0.23918083 g

Recovered targets:

Return period: 2543.3866 yrs
 Exceedance rate: 0.00039317656 yr⁻¹

Totals:

Binned: 0.81 %
 Residual: 0 %
 Trace: 0.02 %

Mean (over all sources):

m: 7.12
 r: 63.7 km
 ε₀: 1.77 σ

Mode (largest m-r bin):

m: 7.33
 r: 62.01 km
 ε₀: 1.52 σ
 Contribution: 0.13 %

Mode (largest m-r-ε₀ bin):

m: 7.1
 r: 62.25 km
 ε₀: 1.74 σ
 Contribution: 0.08 %

Discretization:

r: min = 0.0, max = 1000.0, Δ = 20.0 km
 m: min = 4.4, max = 9.4, Δ = 0.2
 ε: min = -3.0, max = 3.0, Δ = 0.5 σ

Epsilon keys:

- ε₀: [-∞ .. -2.5)
- ε₁: [-2.5 .. -2.0)
- ε₂: [-2.0 .. -1.5)
- ε₃: [-1.5 .. -1.0)
- ε₄: [-1.0 .. -0.5)
- ε₅: [-0.5 .. 0.0)
- ε₆: [0.0 .. 0.5)
- ε₇: [0.5 .. 1.0)
- ε₈: [1.0 .. 1.5)
- ε₉: [1.5 .. 2.0)
- ε₁₀: [2.0 .. 2.5)
- ε₁₁: [2.5 .. +∞]

Closest Distance, rRup (km)				Magnitude (Mw)		ALL_ε	ε=(-∞, -2.5)	ε=[-2.5, -2)	
ε=[-2, -1.5)		ε=[-1.5, -1)		ε=[-1, -0.5)		ε=[-0.5, 0)	ε=[0, 0.5)		
ε=[0.5, 1)		ε=[1, 1.5)		ε=[1.5, 2)		ε=[2, 2.5)	ε=[2.5, ∞)		
130	7.1	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
130	7.3	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.001					
130	7.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					

110	6.7	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
110	6.9	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
110	7.1	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.001					
110	7.3	0.008	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.001	0.008					
110	7.5	0.011	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.008	0.003					
110	7.7	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.002	0.000					
90	6.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000					
90	6.7	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.002					
90	6.9	0.009	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.002	0.007					
90	7.1	0.018	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.016	0.002					
90	7.3	0.012	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.002	0.010	0.001					
90	7.5	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.002	0.000	0.000					
70	6.5	0.021	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.016	0.005					
70	6.7	0.056	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.012	0.041	0.003					
70	6.9	0.035	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.021	0.014	0.000					
70	7.1	0.096	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.084	0.011	0.000					
70	7.3	0.126	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.068	0.053	0.004	0.000					
70	7.5	0.082	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.074	0.008	0.000	0.000					
70	7.7	0.032	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.005	0.023	0.003	0.000	0.000					
70	7.9	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.002	0.001	0.000	0.000	0.000					
50	6.5	0.022	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.021	0.002					
50	6.7	0.061	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.034	0.028	0.000					
50	6.9	0.079	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.066	0.013	0.000					
50	7.1	0.079	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.011	0.061	0.007	0.000					
50	7.3	0.040	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.030	0.010	0.000	0.000					

50 7.5 0.006 0.000 0.000 0.000 0.000 0.000 0.000 0.000
0.000 0.005 0.001 0.000 0.000

Principal Sources (faults, subduction, random seismicity having > 3% contribution

Attachment H-4. Ground Response Spectra Assessment (Site Class D)



ASCE 7 Hazards Report

Address:
No Address at This Location

Standard: ASCE/SEI 7-22
Risk Category: I
Soil Class: D - Stiff Soil

Latitude: 45.6033
Longitude: -119.555
Elevation: 0 ft (NAVD 88)

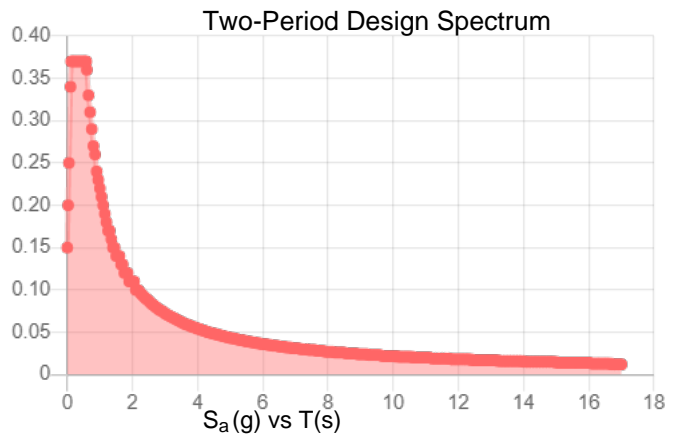
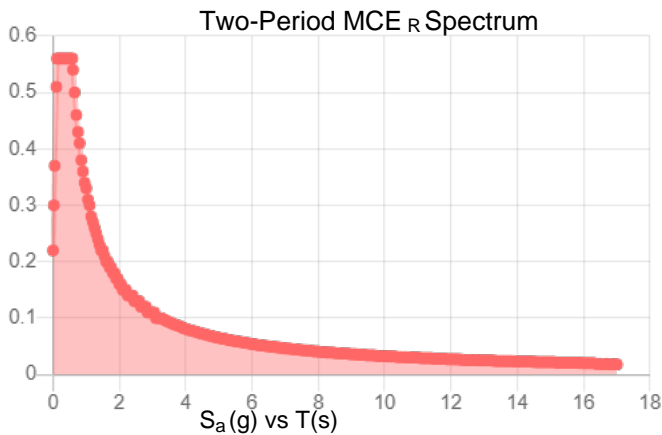
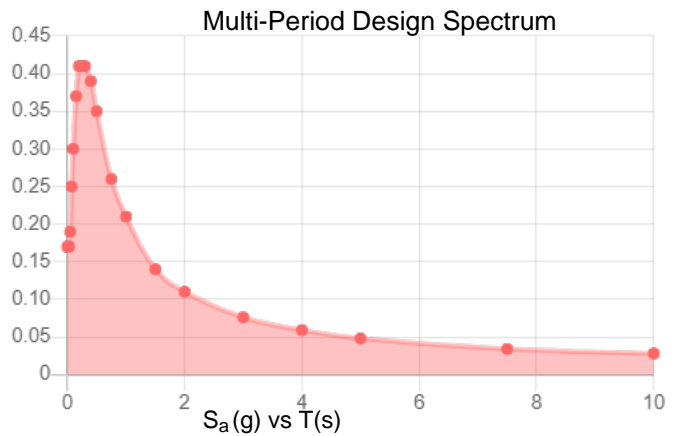
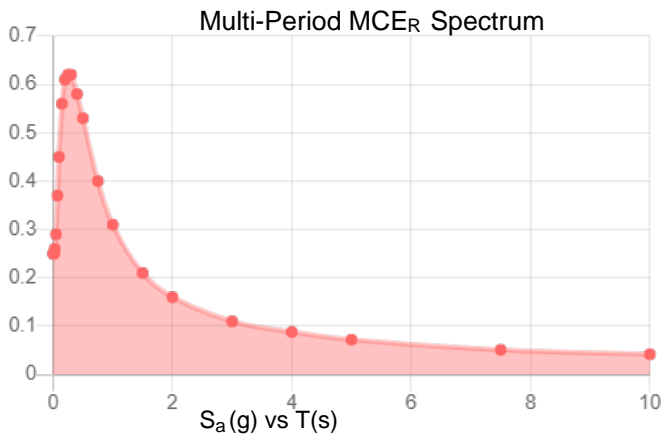


Site Soil Class:

Results:

PGA _M :	0.23	T _L :	16
S _{MS} :	0.56	S _s :	0.4
S _{M1} :	0.33	S ₁ :	0.12
S _{DS} :	0.37	V _{S30} :	260
S _{D1} :	0.22		

Seismic Design Category: D



MCE_R Vertical Response Spectrum
Vertical ground motion data has not yet been made available by USGS.

Design Vertical Response Spectrum
Vertical ground motion data has not yet been made available by USGS.



Data Accessed: Tue Mar 07 2023

Date Source:

USGS Seismic Design Maps based on ASCE/SEI 7-22 and ASCE/SEI 7-22 Table 1.5-2. Additional data for site-specific ground motion procedures in accordance with ASCE/SEI 7-22 Ch. 21 are available from USGS.

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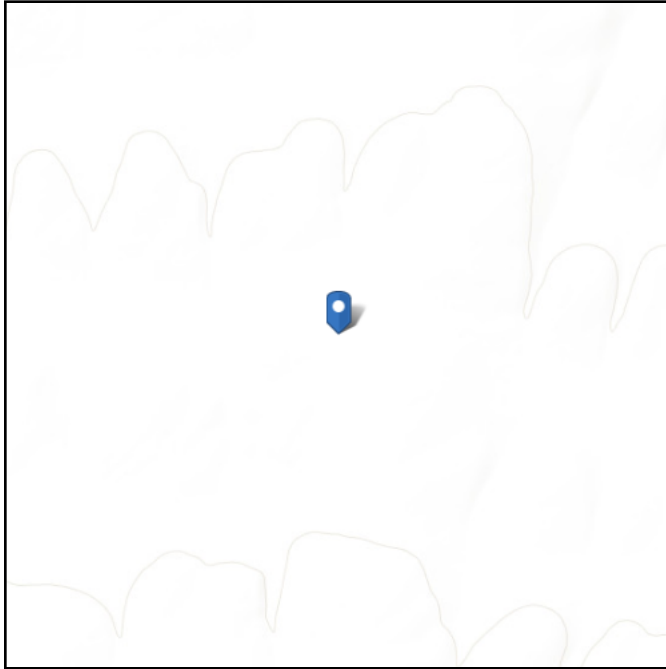


ASCE 7 Hazards Report

Address:
No Address at This Location

Standard: ASCE/SEI 7-16
Risk Category: I
Soil Class: D - Stiff Soil

Latitude: 45.6033
Longitude: -119.555
Elevation: 0 ft (NAVD 88)

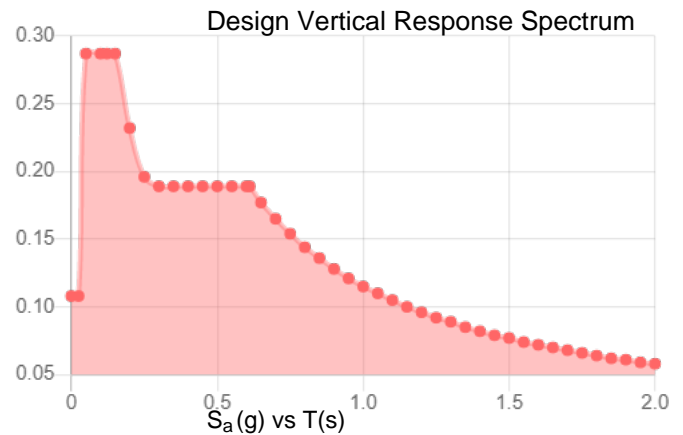
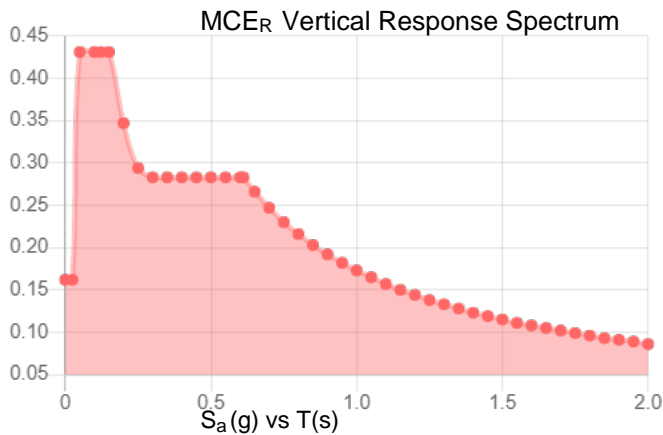
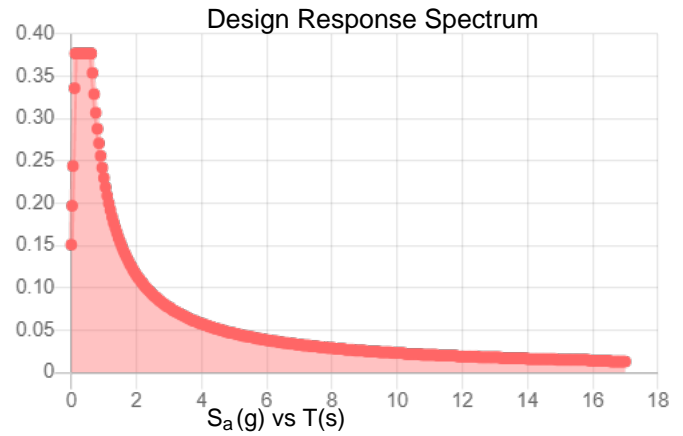
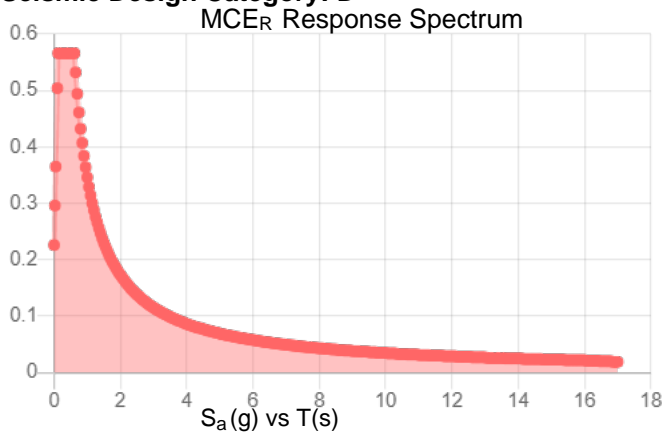


Site Soil Class:

Results:

S_s :	0.378	S_{D1} :	0.23
S_1 :	0.15	T_L :	16
F_a :	1.498	PGA :	0.169
F_v :	2.299	PGA _M :	0.247
S_{MS} :	0.566	F_{PGA} :	1.462
S_{M1} :	0.346	I_e :	1
S_{DS} :	0.377	C_v :	0.952

Seismic Design Category: D



Data Accessed:

Tue Mar 07 2023

Date Source:

USGS Seismic Design Maps based on ASCE/SEI 7-16 and ASCE/SEI 7-16 Table 1.5-2. Additional data for site-specific ground motion procedures in accordance with ASCE/SEI 7-16 Ch. 21 are available from USGS.

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ASCE 7 Hazards Report

Address:
No Address at This Location

Standard: ASCE/SEI 7-10
Risk Category: I
Soil Class: D - Stiff Soil

Latitude: 45.6033
Longitude: -119.555
Elevation: 0 ft (NAVD 88)

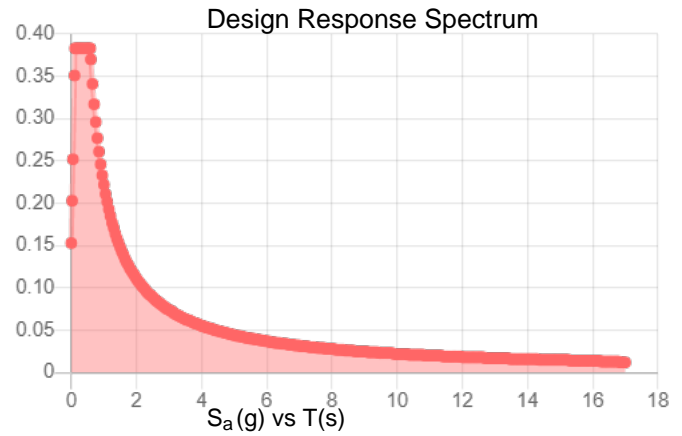
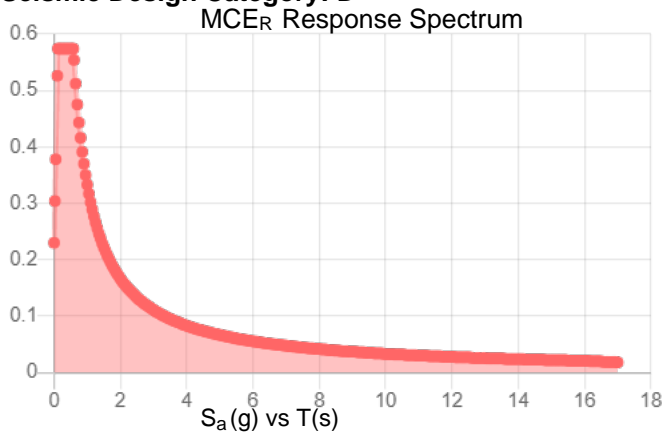


Site Soil Class:

Results:

S_S :	0.384	S_{D1} :	0.222
S_1 :	0.152	T_L :	16
F_a :	1.492	PGA :	0.162
F_v :	2.193	PGA _M :	0.239
S_{MS} :	0.574	F_{PGA} :	1.477
S_{M1} :	0.333	I_e :	1
S_{DS} :	0.383		

Seismic Design Category: D



Data Accessed: Tue Mar 07 2023

Date Source:

USGS Seismic Design Maps based on ASCE/SEI 7-10, incorporating Supplement 1 and errata of March 31, 2013, and ASCE/SEI 7-10 Table 1.5-2. Additional data for site-specific ground motion procedures in accordance with ASCE/SEI 7-10 Ch. 21 are available from USGS.

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