

Oregon Ocean Policy Advisory Council

Draft Meeting Summary – Dec 3rd, 2015

Issues Decided/Positions Taken

- The Draft Meeting Summary of the May 7, 2015 Ocean Policy Advisory Council (OPAC) was approved by consensus without edits.
- The Council approved by consensus a motion to have the executive committee draft a letter to LCDC recommending that at least one LCDC Commission Member have knowledge of Oregon ocean issues.
- The Council approved by consensus the establishment of ad hoc work groups to begin initial conversations on the issues of Marine Debris, Ocean Acidification and Hypoxia, and Resilience. The ad hoc workgroups are tasked with drafting an approach that OPAC can use to address the issues above. The groups and their members are listed below:
 - Marine Debris: Charlie Plybon (Lead), David Allen., & Chris Castelli, Jennifer Purcell
 - Ocean Acidification and Hypoxia: Gabriela Goldfarb (Lead), Caren Braby, Jena Carter, Shelby Walker
 - Resilience: Shelby Walker (Lead), Jena Carter, Jennifer Purcell, Kris Wall, Walter Chuck
- The Council also approved in the same consensus motion as listed above, the re-establishment of the Territorial Sea Plan Working Group to address the Rocky Shores Inventory portion of the Plan (Part 3). The TSP Working Group members are listed below:
 - Territorial Sea Plan Working Group on Rocky Shores: Robin Hartmann (chair), Paul Klarin (staff), Charlie Plybon, Jena Carter, Chris Castelli, Laurel Hillmann, David Allen, Caren Braby (Designee: Dave Fox), Andy Lanier (staff)

Presentations

- *Louise Solliday, Ocean Science Trust Executive Director* provided OPAC an introduction to the Ocean Science Trust.
- *Cristen Don, ODFW Marine Reserves Program Leader* provided a presentation the implementation of the Marine Reserves Program, including: a report on the monitoring work at Cascade Head; the use of social science methods in understanding community impacts; and the new communication strategy and efforts.
- *Lisa Debruyckere, OMRP Project Coordinator* provided a presentation on the Oregon Marine Reserves Partnership formation and activities.

OPAC Members Attendance

Members Present (voting): **Scott McMullen** (North Coast Commercial Fisheries, OPAC Chair); **David Allen** (Coastal City Official), OPAC vice-chair); **Jena Carter** (Statewide Conservation or Environmental Organization); **Robin Hartmann** (Coastal Conservation or Environmental Organization); **Walter Chuck** (Ports, Marine Transportation, Navigation); **Terry Thompson** (North Coastal County Commissioner); **John Holloway** (North Coast Charter, Sport or Recreational Fisheries); **Susan Morgan** (South Coastal County Commissioner); **Charlie Plybon** (Coastal Non-Fishing Recreation). **Brad Pettinger** (South Coast Commercial Fisheries) [10/14]

Members Absent: **Robert Kentta** (Oregon Coastal Indian Tribes); **Jim Pex** (South Coast Charter, Sport or Recreational Fisheries)

Members Present (*ex officio*): **Gabriela Goldfarb** (Office of the Governor); **Loren Goddard** (Oregon Coastal Zone Management Association); **Patty Snow** (Department of Land Conservation & Development); **Shelby Walker** (Oregon Sea Grant); **Chris Castelli** (Department of State Lands); **Caren Braby** (Oregon Department of Fish & Wildlife); **Jennifer Purcell** (Oregon Dept. of Environmental Quality); **Laurel Hillmann** (OPRD). [8/11]

Staff: **Paul Klarin** (DLCD); **Andy Lanier** (DLCD, OPAC Staff); **Dave Fox** (ODFW); **Kessina Lee** (GNRO); **Kelsey Adkisson** (ODFW).

Public Comment and Attendance

Public Comment speakers (with affiliation if provided): **David Yamamoto** (citizen, Tillamook County); **David Brock Smith** (Curry County); **Onno Hussing** (Lincoln County)

Others in Attendance (with affiliation if provided): **Louise Soliday** (Ocean Science Trust); **Gus Meyer** (FACT); **Jim Carlson** (Coast Range Association); Linda Buell (FACT); **Rob Bovett** (Association of Oregon Counties); Lisa Debruyckere

Acronyms and Initials:

DLCD-Department of Land Conservation and Development; DOGAMI- Oregon Department of Geology and Mineral Industries; DSL- Department of State Lands; OMD – Oregon Military Department; ODFW- Oregon Department of Fish and Wildlife; OPRD-Oregon Department of Parks and Recreation; DOJ – Department of Justice; FACT-Fishermen’s Advisory Committee of Tillamook, WCGA – West Coast Governors Alliance; TNC – The Nature Conservancy

Distributed Materials

1. OPAC May 7, 2015 - Draft Meeting Summary
2. OPAC Visioning Exercise Worksheet
3. Oregon Shores Strategic Planning for Rocky Shores Memo

Additional Resources

1. [Department of Land Conservation and Development Website](http://www.oregon.gov/lcd/) (<http://www.oregon.gov/lcd/>)
2. [OPAC Website](http://www.oregon.gov/LCD/OPAC): (<http://www.oregon.gov/LCD/OPAC>)

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For a copy of the video record of this meeting, please contact Andy Lanier at the contact information listed below, and complete a public records request available online at:

http://www.oregon.gov/LCD/docs/publications/DO_110.02_PublicAccessstoDLCDRecords_RequestForm.pdf

Andy.Lanier@state.or.us (503) 934-0072

2015 MARINE RESERVES HIGHLIGHTS



OregonMarineReserves.com

7 Ecological Monitoring
studies in progress



\$81,476

to vessels from Garibaldi, Depoe Bay, Port Orford and Gold Beach



\$10,000
in scholarships for graduate research

Presented at:

- MPA Federal Advisory Committee
- Cape Perpetua Land-Sea Symposium
- State of the Coast Conference
- Ocean Policy Advisory Council
- Western Society of Naturalists
- HMSC Seminar Series
- OIMB Seminar Series



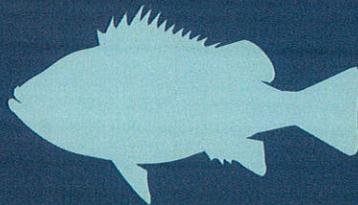
Outreach Events

- Redfish Rocks on the Docks
- Cape Perpetua Land-Sea Symposium
- Western Society of Naturalists

and
\$12,078

to community-based programs

11 Human Dimensions
research studies currently in progress



Completed
2 Pilot Studies

One, compared hook-and-line with long-line catch and another tested a new video lander tool for sampling rocky reefs



1,000

human dimensions surveys conducted



Human Dimensions Community Research:

- Manzanita
- Nehalem
- Garibaldi
- Depoe Bay
- Newport
- Florence
- Port Orford
- Gold Beach



Territorial Sea Plan Part Three: Rocky Shores Management Strategy

Territorial Sea Plan Part III

“To protect the ecological values and coastal biodiversity within and among Oregon’s rocky shores while allowing appropriate use”

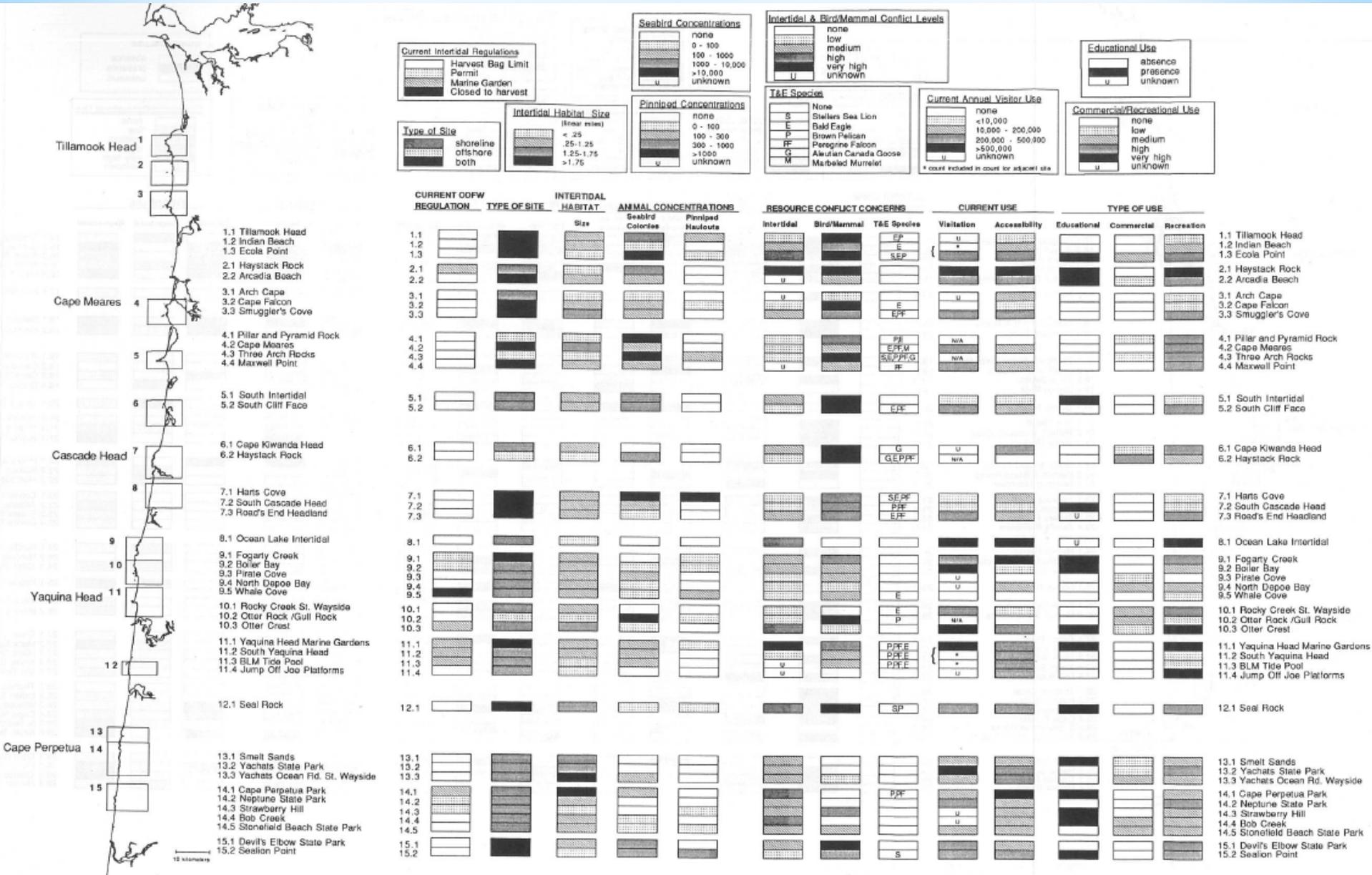
The Rocky Shore Management Strategy

- ❑ Policies and objectives +**
 - ❑ Scientific data on resources and uses,**
 - ❑ Applied to specific sites and situations,**
 - ❑ Relying on state and federal authorities & programs**
- * OPAC does not implement the strategy.**



Part III Section F Site Analysis & Categories

Evaluate, list and map sites based on type, habitat and use.



Part III Section (G)

□ **Designates 39 sites (parts) as either:**

- **Marine Garden (8)**
- **Habitat Refuge (10)**
- **Research Reserve (7)**

Or identified as;

- **Not Yet Designated (9)**
- **Priority Offshore Rocks/Reefs (7)**
- **Marine Shores – listed but not shown on maps (28)**

Map 1
 #1 Tillamook Head
 #2 Ecola State Park

G. Site Designations

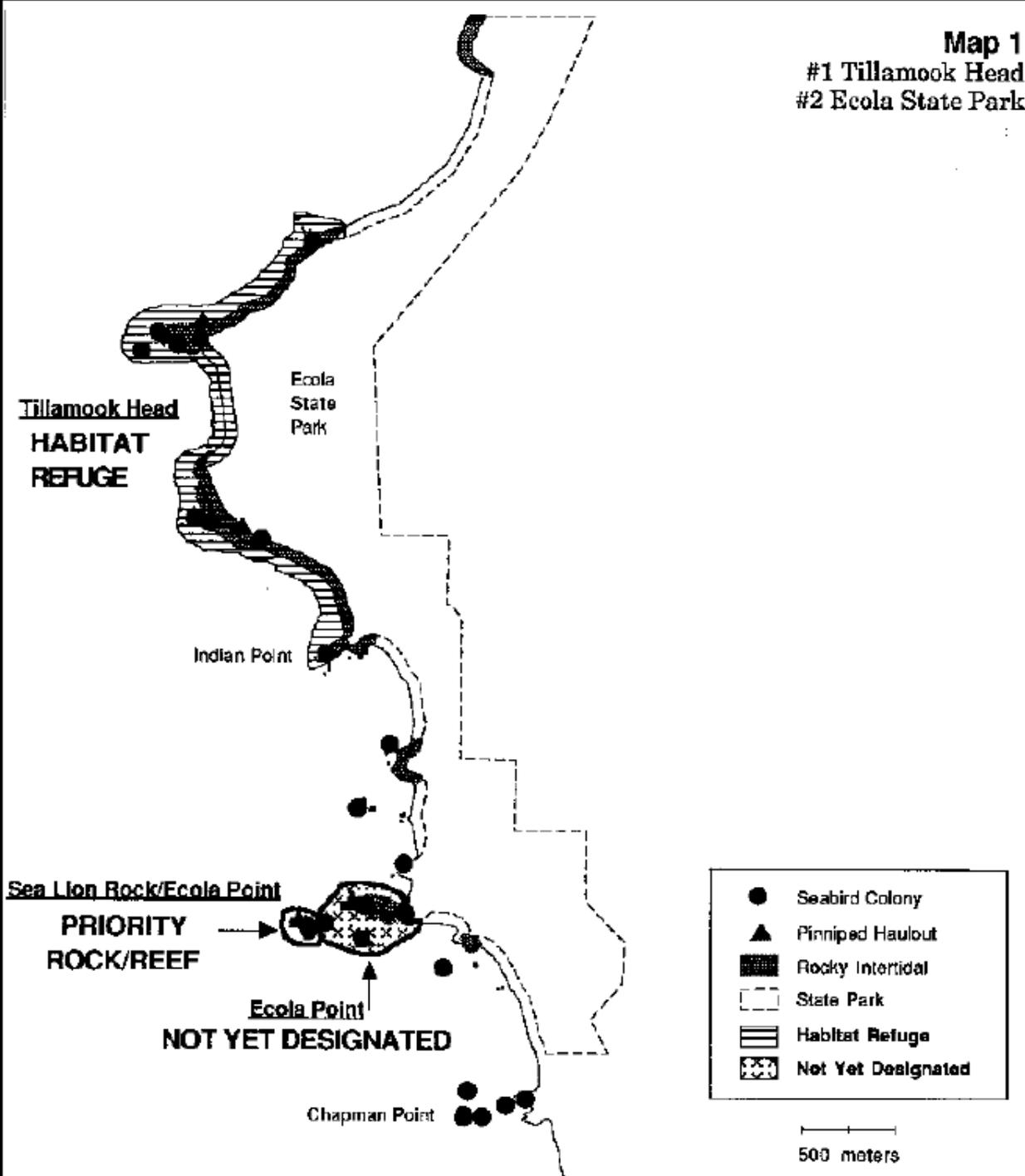
Designation
 Area Included

Description:

- Access
- Ownership
- Key Resources

Use and Management

- Current Use
- Current Management
- Impact Concerns
- Mgt. Objectives
- Mgt. Prescriptions



TSP Part Three: OPAC Amendment Criteria

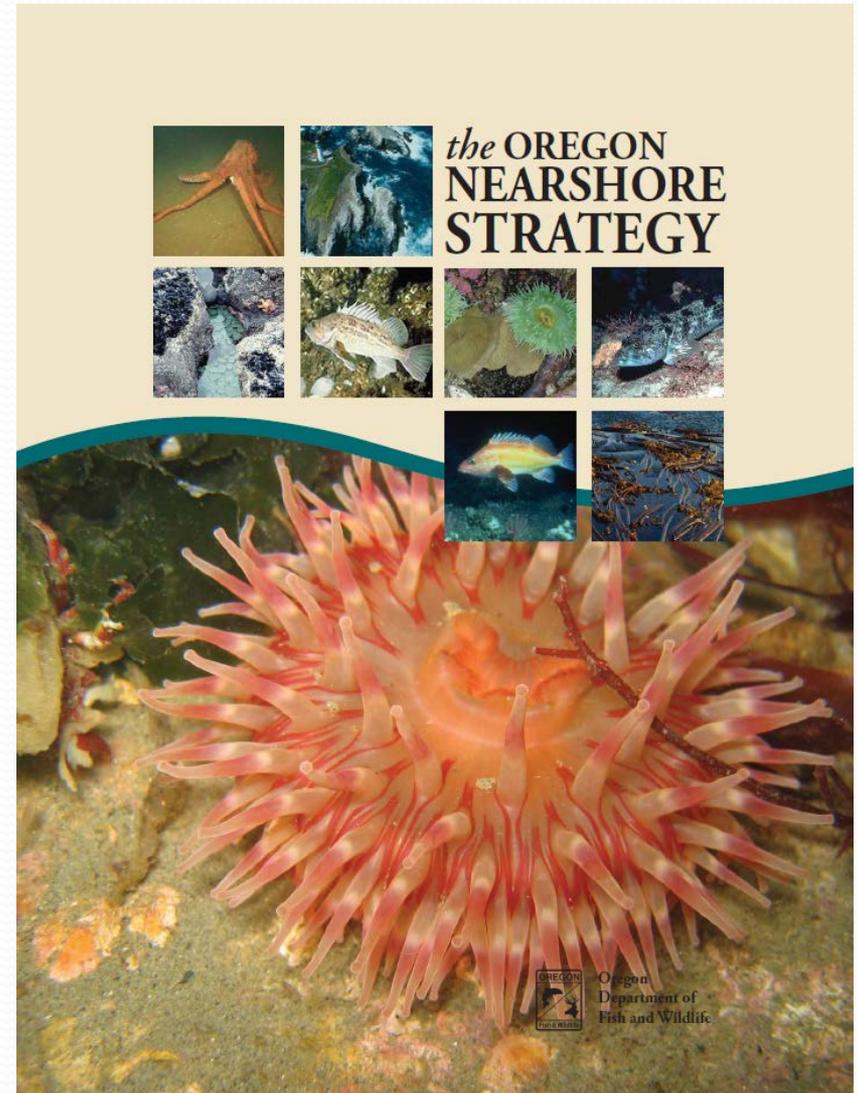
- **In Response to more detailed site study and analysis**
- **Change in circumstances affecting management**
- **When sites are proposed for designation**

Detailed Site Study and Analysis

Ocean Shore Management Plan



Oregon Parks and Recreation Department
January 2005





Arizona Beach

Sisters Rock

Oregon's Marine Reserves

Cape Perpetua



Cascade Head



Cape Falcon



Redfish Rocks



Otter Rock



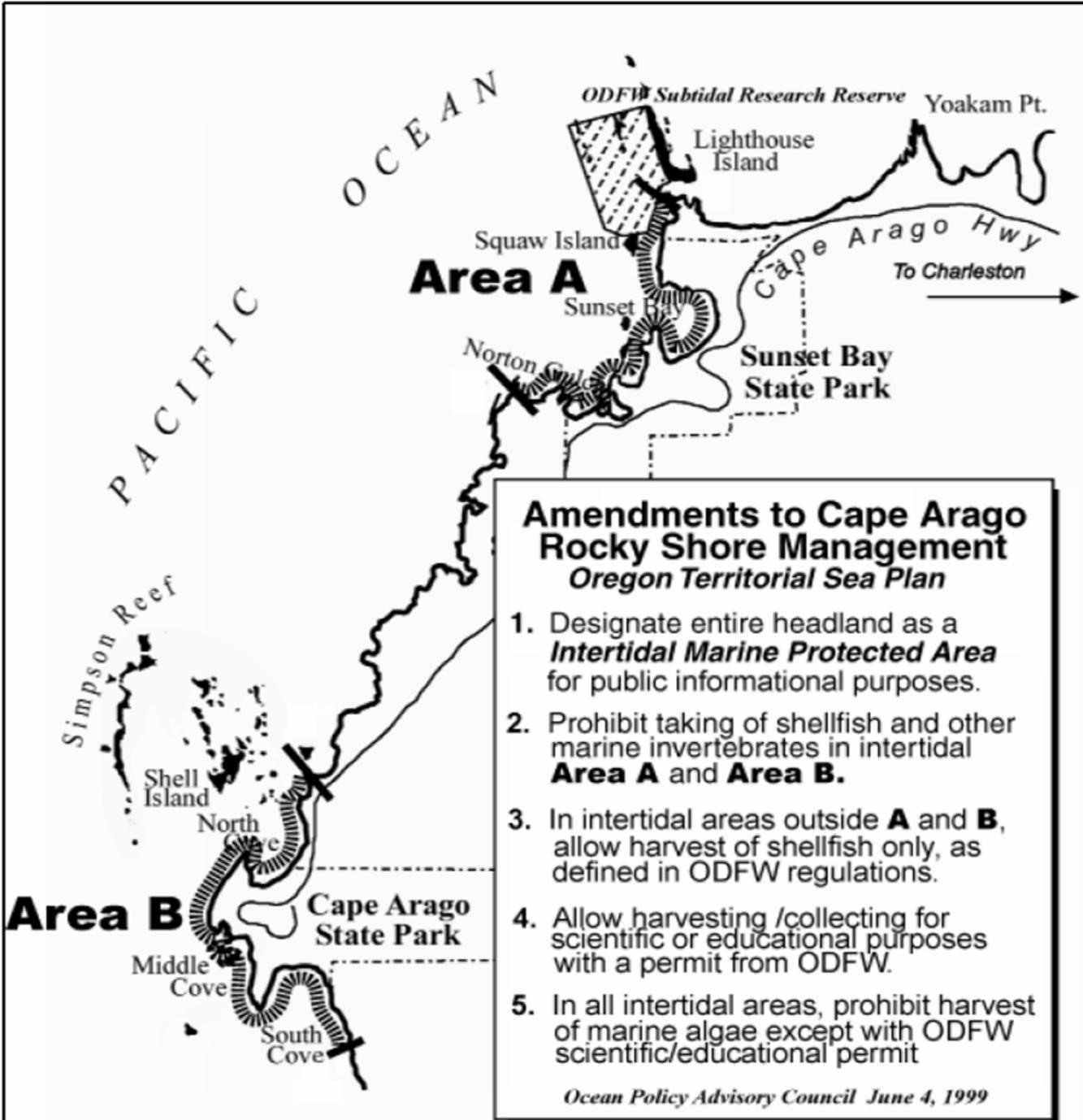
Cape Arago

2001 Amendment:
OPAC recommended
Part Three be
reorganized and
re-formatted into

Rocky Shore Cells

Multiple Sites

Model method

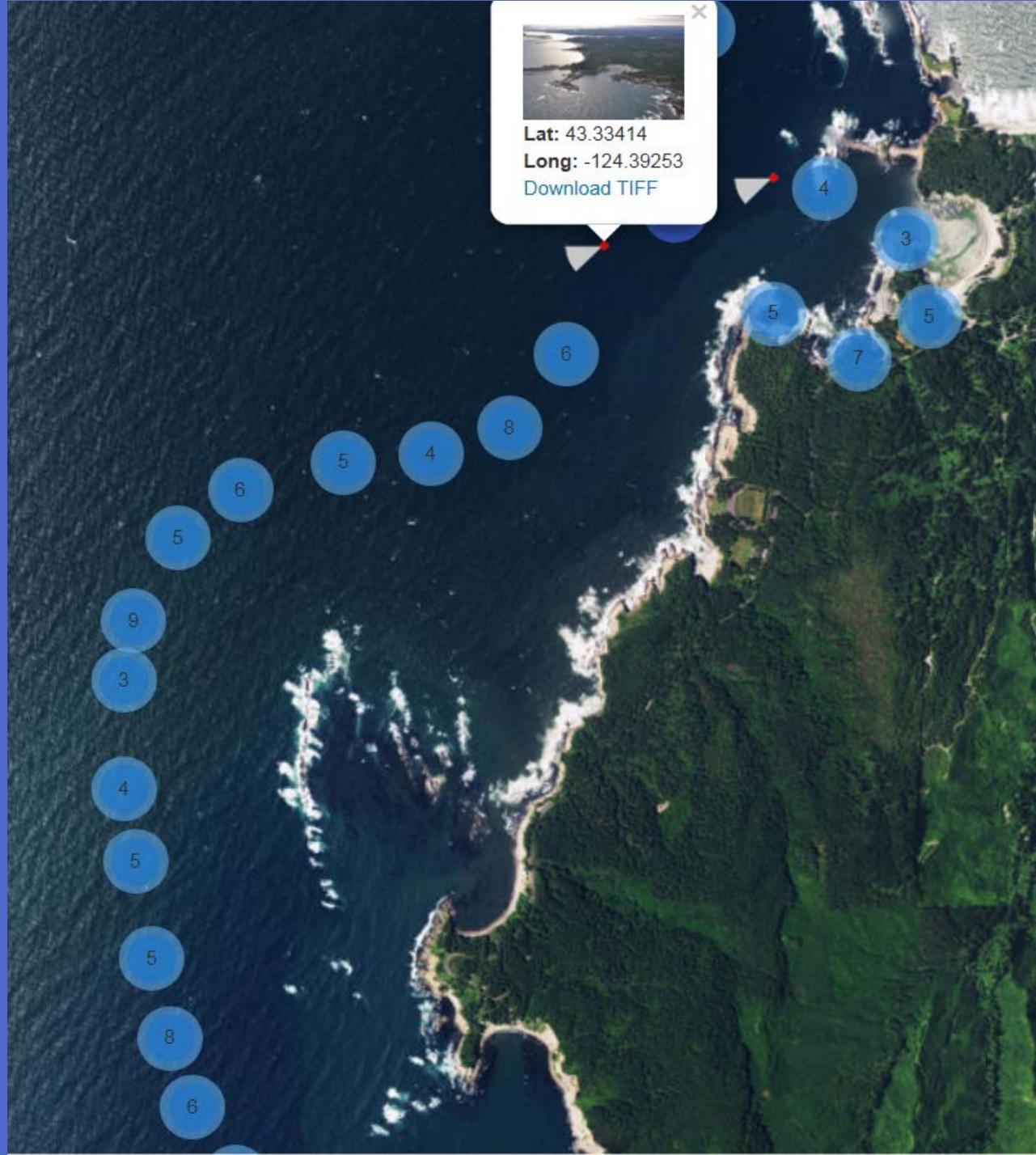


ShoreZone

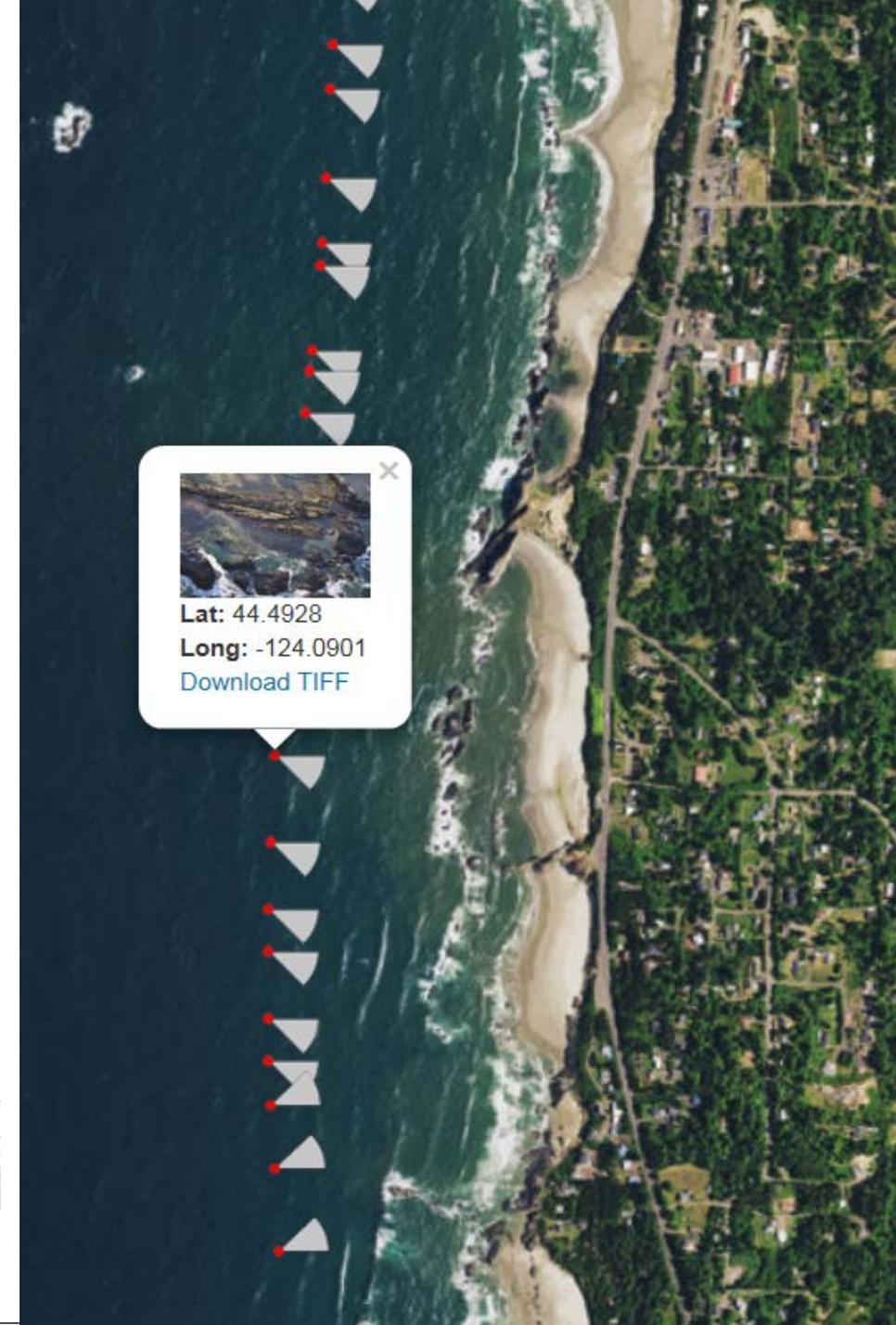
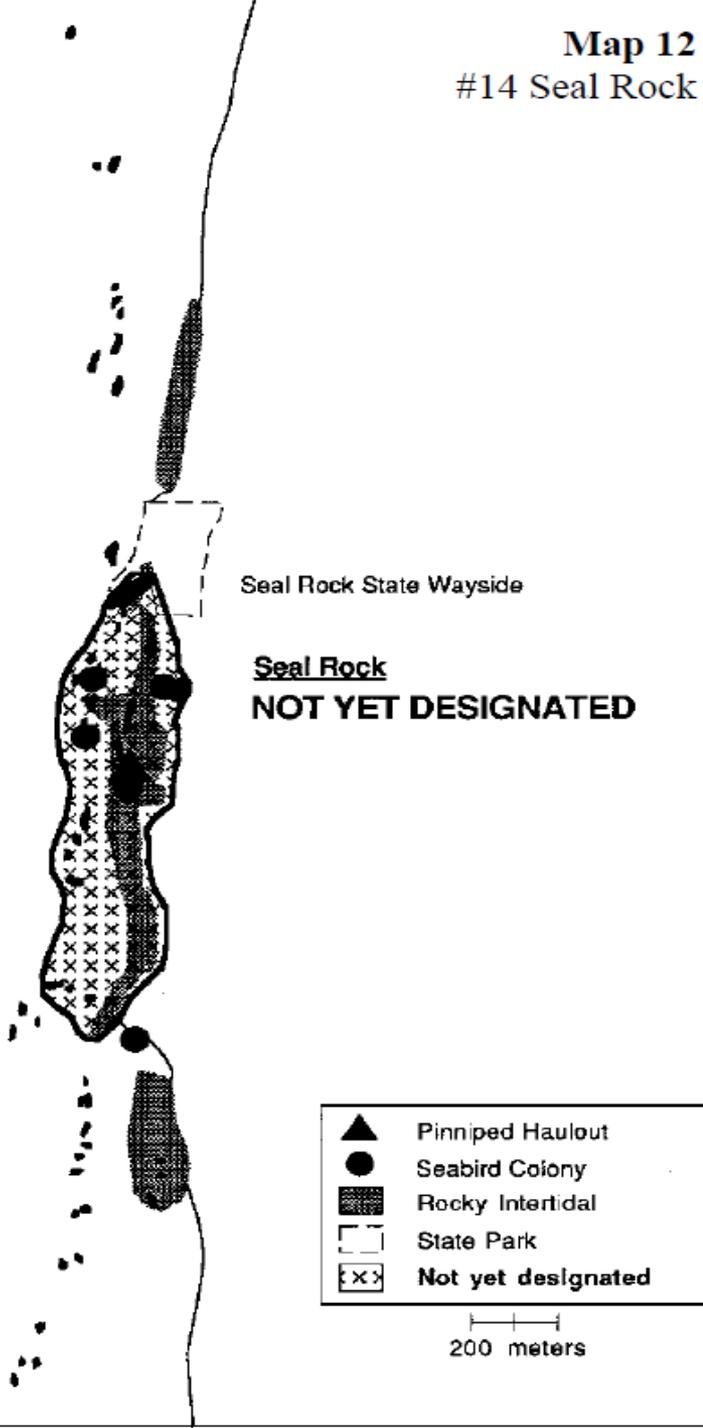
Georeferenced
Video &
Aerial Photos

Interpretive
Analysis

- ❖ Geological
- ❖ Biological



Map 12
#14 Seal Rock

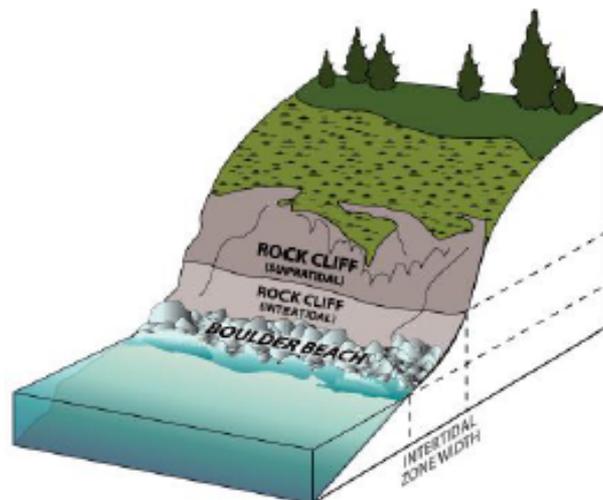


Lat: 44.4928
Long: -124.0901
[Download TIFF](#)

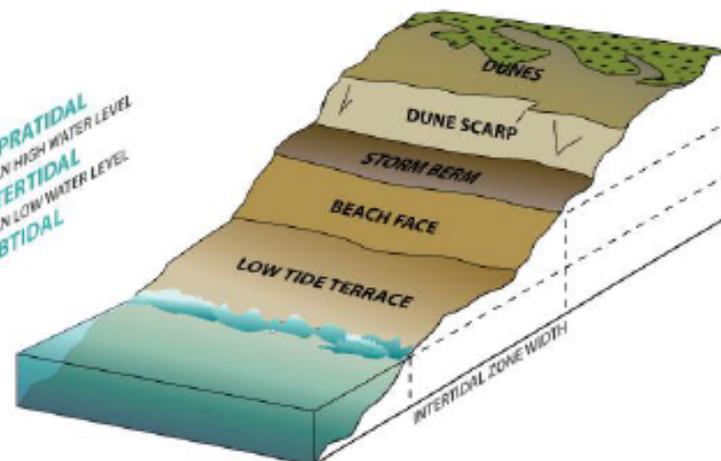


B-7. Wide platform with sand beach; *Shore Type 17*;
Otter Rock (Unit 50/01/2064/0)

COMPONENTS



SUPRATIDAL
MEAN HIGH WATER LEVEL
INTERTIDAL
MEAN LOW WATER LEVEL
SUBTIDAL



SUPRATIDAL
MEAN HIGH WATER LEVEL
INTERTIDAL
MEAN LOW WATER LEVEL
SUBTIDAL

BIOBANDS

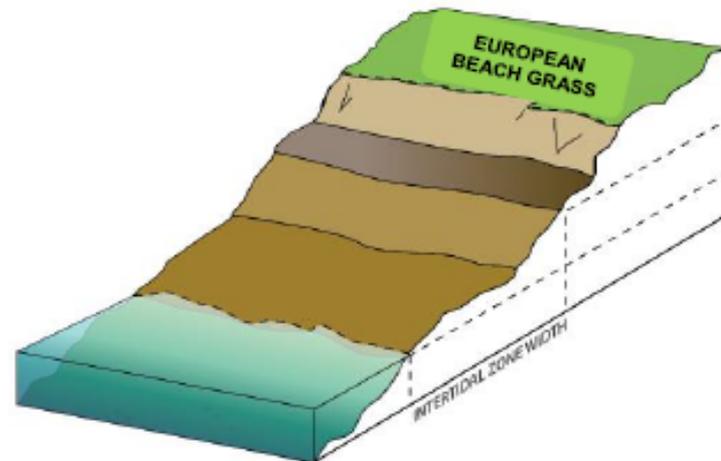
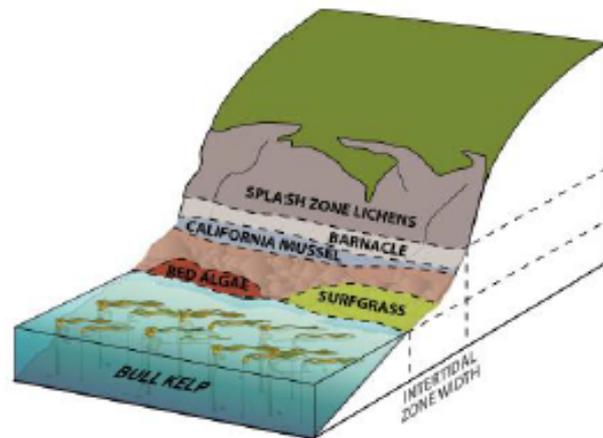


Figure 7. Schematic representation of across-shore *Components* and *Biobands* for two common shore types of the Oregon coast. *Components* are carefully referenced to the three tidal zones and *Biobands* are nested within *Components*. The stable substrate of the rock cliffs support a number of different biobands whereas the dynamic nature of the sand beaches are stable only in the vegetated dunes where the *European Beach Grass Bioband* is noted. The supratidal zone lies between the MHWL and the storm log line.

OPAC Part III Amendment Process

Part I Section F.2

- ❖ **Work Program:** agency staff, work schedule, target date, TSP work group and STAC.
- ❖ **Public Participation:** public workshops
- ❖ **Submittal to LCDC**

OREGON SHORES CONSERVATION COALITION

Comments to Oregon Ocean Policy Advisory Council

April, 2016

The Oregon Shores Conservation Coalition would like to take this opportunity to offer four suggestions for the Rocky Shores Working Group in light of what we recognize are very real budget constraints that limit the scope and pace of its review of Oregon's Rocky Shores Strategy.

We recommend that the Working Group survey and invite participation from:

- existing community programs that focus on rocky shores such as Haystack Rock Awareness Program (HRAP) in Cannon beach and Shoreline Education for Awareness (SEA) in Bandon. These groups can provide valuable practical insight into what is needed to protect and manage rocky shores.
- federal agencies with activities and responsibilities for rocky shores including Yaquina Head Outstanding Natural Area administered by the U.S. Bureau of Land Management, the Cape Perpetua Visitor Center administered by the U.S. Forest Service, and the U.S. Fish and Wildlife Service Oregon Islands National Wildlife Refuge which has significant jurisdiction and management responsibilities for rocky shore resources and areas. These agencies are important partners in managing rocky shore areas and resources and providing public education about them.
- marine scientists at the University of Oregon Institute of Marine Biology in Charleston who conduct research on rocky shores of the Cape Arago headland, at the Hatfield Marine Science Center, and in relevant departments at Oregon State University and the Partnership for Interdisciplinary Studies of Coastal Oceans (PISCO) headquartered there, who conduct research on intertidal areas such as Boiler Bay and Strawberry Hill. These and other scientists can provide extensive information about the ecological status of Oregon's rocky shores and observations about changes over time.
- Coast Watchers who have rocky shores within their adopted mile or who participate in our sea star population survey. These citizens can provide information on the rocky shore sites that they observe on a frequent basis.

We suggest that the Working Group post a web page with information about Oregon's rocky shores, the state's Rocky Shores Strategy, and the Working Group, where the public can post comments or information for the Working Group to consider in its evaluation.

We recommend inviting participation by the community teams associated with the Marine Reserves. These reserves border or contain important rocky shore areas. Resource protection, education, public interpretation, and monitoring programs associated with rocky shores should be consistent with those for the marine reserves. In addition, it would be very helpful to have a map of the marine reserves with the various rocky shore sites indicated on them so the public can see the correlation between them.

We urge the Working Group to consider the topic of nearshore water quality as it affects rocky shores. Coastal rivers and numerous small streams deliver water-borne pollutants into the nearshore

environment and, in many cases, directly into intertidal rocky shore sites. While there are some beach water quality monitoring efforts by the state and volunteer organizations, Oregon has no systematic program for monitoring nearshore water quality as it affects rocky shores and their highly sensitive ecosystems. It makes sense that this review of the Rocky Shores Strategy consider water quality monitoring needs as part of a revised strategy.

6

OPAC Ocean Acidification Working Group

April 2016 Update

Background:

In December 2015 the Ocean Policy Advisory Council (OPAC) established an ocean acidification (OPAC-OA) work group. Current members of the working group include Caren Braby, Jena Carter, Gabriela Goldfarb, Terry Thompson, and Shelby Walker. (Note: Terry Thompson agreed to join the group in early 2016.)

Work Group Activities since the Previous OPAC Meeting:

The OPAC-OA work group convened by telephone on February 8 and March 18, 2016. The group agreed upon the draft work plan (described below in this document), and worked with the OPAC Executive Committee to include an OA updates agenda item for the April 5, 2016.

During the two Work Group meetings, members discussed the various OA-related activities occurring this year and how OPAC may want to stay informed or participate in these activities (see list of OA-related events below).

I. OPAC OA Working Group – Draft Workplan:

Work group members developed a common understanding of the role this work group can play to meet the intent of OPAC's December 2015 strategic planning and work group formation process. These roles should be reviewed by OPAC and confirmed, for future work. Work group roles are to:

- Through updates at OPAC meetings, provide a **public forum** opportunity to share information on OA issues in Oregon
- Through updates at OPAC meetings, provide **documentation** of the many groups, meetings, and sources of information on OA in Oregon (e.g. this one-pager)
- Highlight opportunities for OPAC to **comment on OA topics or events** (e.g. Fishermen's Round Table on 4/18/16)
- Develop for OPAC consideration formal **comments on policy/legislation/research** program development in Oregon (e.g. provide input to the Oregon Ocean Science Trust as it develops its funding priorities)

II. Timeline of upcoming OA-related events:

- April 4: West Coast Ocean Acidification and Hypoxia Science Panel - official release of panel recommendations
- April 5: OPAC OA public forum – presentation by West Coast Ocean Acidification and Hypoxia Science Panel co-chair Francis Chan, outlining panel findings and recommendations
- April 18: *Tentatively planned*: Fishermen-Scientist Roundtable, Newport (collaboration of Terry Thompson, Oregon Sea Grant, OSU and ODFW)
- May 11-12: Oregon Ocean Science Trust Scientist Workshop, Newport

III. Next steps:

- Work Group members will participate in the Fishermen-Scientist Round Table (pending scheduling) and the Or-OST Science Workshop
- June 13, 2016 OPAC meeting:
 - o OA Updates on these events and other developments
 - o Draft OPAC statement for legislature/Governor on OPAC's reasons for convening the OA Work Group and the policy, management, and science needed to address the threats posed by ocean acidification and hypoxia to Oregon's ocean and coastal interests

Addressing Ocean Acidification and Hypoxia on the West Coast

PROVIDING DECISION-MAKERS WITH SCIENTIFIC GUIDANCE ON CHANGING OCEAN CHEMISTRY



A Shared Challenge on the West Coast

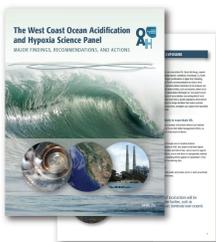
Although ocean acidification and hypoxia are global phenomenon, the U.S.-Canadian West Coast will face some of the earliest, most severe changes in ocean chemistry. Impacts extend through food webs and threaten marine-dependent industries and coastal communities. Managing for changing ocean conditions requires cooperation across academic, political, and jurisdictional boundaries.

A Bi-national Effort: The West Coast Ocean Acidification and Hypoxia Science Panel

A compelling catalyst for meeting this challenge is the West Coast Ocean Acidification and Hypoxia Science Panel (the Panel), a collaboration of 20 scientific experts (see map). The Panel links the governments of California, Oregon, Washington and British Columbia to address these issues at a coast-wide scale. Convened by the Ocean Science Trust in 2013 at the request of the California Ocean Protection Council, the Panel was charged with summarizing the state of knowledge and available management options for the West Coast.

Products to Inform Decision-making

The Panel produced several products that provide a comprehensive analysis needed to catalyze concerted management action. In addition to an Executive Summary summarizing the breadth of their work, supporting documents offer technical guidance for program managers and foundational science for experts.



EXECUTIVE SUMMARY

- 6 Major Findings
- 8 Recommendations
- 14 Actions
- Supporting Appendices

TECHNICAL GUIDANCE

- Monitoring Network
- Research Priorities
- Modeling Tools
- Multiple Stressor Considerations

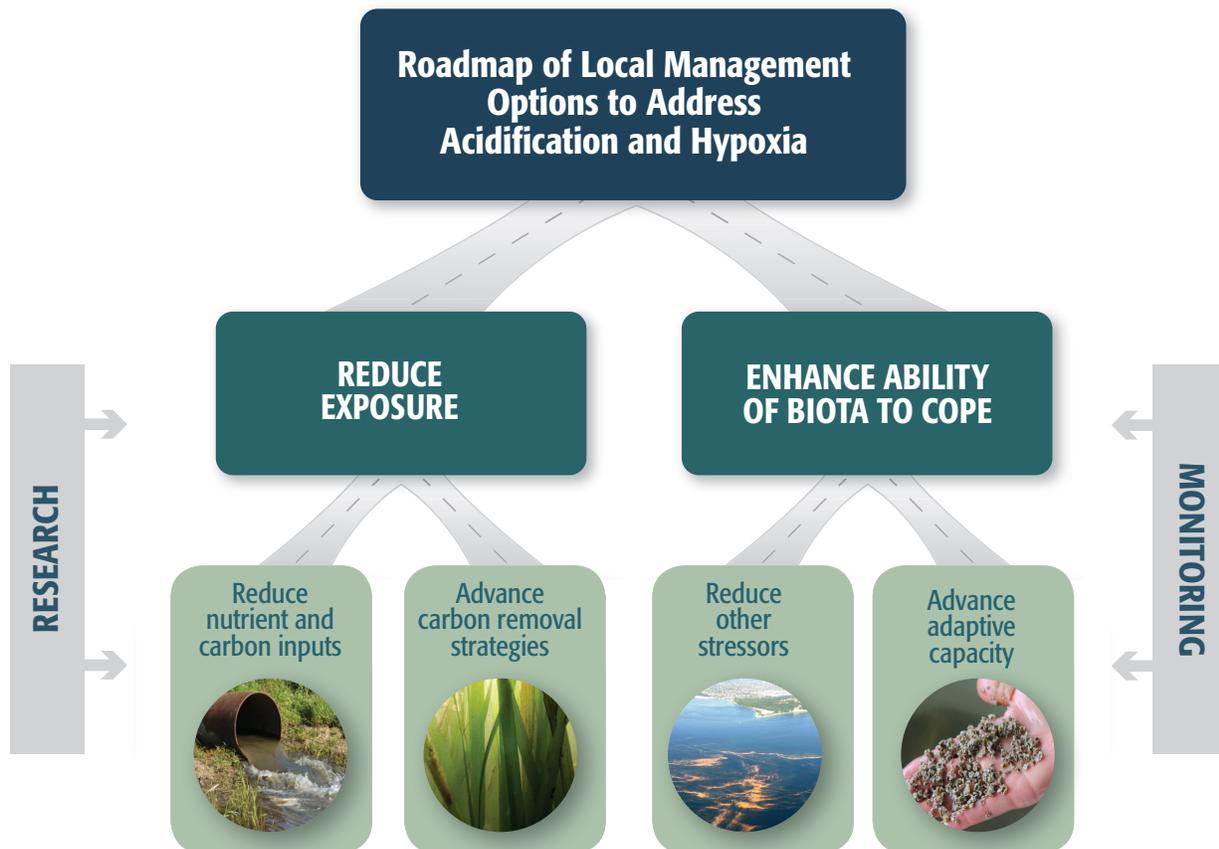
FOUNDATIONAL SCIENCE

- Effects on Individual Species
- Effects on Populations and Ecosystems
- Science Needs of Managers
- Water Quality Criteria: Challenges and Opportunities



MAJOR FINDINGS

1. Acidification and hypoxia will have **severe environmental, ecological** and **economic consequences** for the West Coast, and require a concerted regional focus.
2. Global **carbon emissions** are the dominant cause of acidification.
3. There are **actions we can take** to lessen exposure to acidification.
4. We can **enhance** the ability of **ecosystems** and organisms to cope with acidification.
5. Accelerating acidification **science will expand the management options** available.
6. Inaction now will reduce options and impose **higher costs later**.



More information on the Panel and available products, visit
www.westcoastoah.org