WITOUT WARNING!

JEREMY BARLOW
DAVID HAHN
Story by ALTHEA RIZZO
Script by JEREMY BARLOW
Art and Cover by DAVID HAHN
Letters by NATE PIEKOS OF BLAMBOT®

Designer KAT LARSON
Editor SHANTEL LAROCQUE
Publisher MIKE RICHARDSON

Special thanks to Heidi Kandathil, John Schelling, Teron Moore, Meghan Sexton, FEMA, and the National Earthquake Hazard Reduction Program.

Support for this publication was provided by FEMA, Department of Homeland Security, under the National Earthquake Hazard Reduction Program (NEHRP) Cooperative Agreements. Points of view or opinions expressed in this document are those of the authors and do not necessarily represent the official position or policies of FEMA or the US Department of Homeland Security.

Without Warning!, August 2014. Published by Dark Horse Comics, Inc., 10956 SE Main Street, Milwaukie, Oregon 97222. Text and illustrations of Without Warning!™ © 2014 Cascadia Region Earthquake Workgroup and Oregon State Office of Emergency Management. Dark Horse Comics® and the Dark Horse logo are trademarks of Dark Horse Comics, Inc., registered in various categories and countries. All rights reserved. No portion of this publication may be reproduced or transmitted for commercial purposes, in any form or by any means, without the express written permission of Dark Horse Comics, Inc. Names, characters, places, and incidents featured in this publication either are the product of the author’s imagination or are used fictitiously. Any resemblance to actual persons (living or dead), events, institutions, or locales, without satiric intent, is coincidental. Printed in the United States of America.
THE PACIFIC NORTHWEST: HOME TO SOME OF THE MOST SPECTACULAR TERRAIN NORTH AMERICA HAS TO OFFER.

SANDY BEACHES PUSH UP AGAINST CONIFEROUS FORESTS—ANYWHERE ELSE THIS WOULD BE AN UNLIKELY PAIRING.

BUT THAT’S NOT THE ONLY STARTLING CONTRAST HERE...

JUST OFF THE COAST LIES THE CASCADIA SUBDUCTION ZONE—A SIX-HUNDRED-MILE-LONG EARTHQUAKE FAULT STRETCHING FROM OFFSHORE NORTHERN CALIFORNIA TO SOUTHERN BRITISH COLUMBIA.

FOR HUNDREDS OF YEARS TWO MASSIVE TECTONIC FORCES—THE JUAN DE FUCA AND THE NORTH AMERICAN PLATES—HAVE PUSHED AGAINST EACH OTHER, BUILDING IMMENSE FORCE...

...UNTIL SOMETHING FINALLY GIVES WAY.
THE COASTAL TOWN OF CASCADIA WON'T FEEL THE EFFECT FOR ANOTHER TEN MINUTES...
KRRUMM

RRMBIL

LIE DOWN--
COVER YOUR
HEADS!

RRR MMMMBLL

KRASH
OH OH MAN.

HOLD STILL... SEAN--I HAVE A FIRST-AID KIT.

WHAT JUST HAPPENED? WHY ARE YOU SO CALM?

WE JUST HAD A MAJOR EARTHQUAKE--AND THERE ARE PROBABLY MORE AFTERSHOCKS COMING.

THIS IS WHAT MY COMMUNITY EMERGENCY RESPONSE TEAM TRAINING HAS BEEN ABOUT. KEEPING A COOL HEAD IS THE FIRST AND MOST IMPORTANT STEP TO SURVIVING THIS.

THE ROADS AREN'T SAFE. WE DON'T KNOW HOW BAD THE TSUNAMI WILL BE.

I'M HEADING TO MY SISTER'S SCHOOL. ON FOOT. LET'S GO TOGETHER.

HEATHER, WHAT ARE YOU DOING?

HE NEEDS TO SEE A DOCTOR. WE'RE GOING TO THE HOSPITAL. YOU'D BETTER COME WITH US!

I'M SORRY--I HAVE TO GO HOME!

CALL ME IF YOU NEED ME TO COME GET YOU.

HEATHER!

DAD
Thank you. Mom and I are fine. House standing. Checking on grands.

Following preplanned route to Tami's school. Will bring her home.

DAD
Stay safe.

You too. Love you.

Uncle Wayne: Big earthquake on coast. Family okay. Not sure about town.

UNCLE WAYNE
Thanks 4 letting me know. I've been worried sick. I know I'm all the way over here in Ohio but let me know if there's anything I can do.

Thanks. Don't worry. Will call when phone lines are working.

WHOA.

Tami's school site on higher ground... she'll be okay, but will it?
Soon...

Even this far inland, the tsunami is flooding the waterways.

Hey! Girl! Go get some help!

Help just got here!

Stay wrapped up in that blanket until you have your strength back.

I'll leave you a couple of protein bars. You should be able to hike back out of here.
STILL STANDING—THANK GOD. HERE'S TO MODERN CONSTRUCTION.

IF THEY FOLLOWED THE SCHOOL'S DISASTER PLAN, TAMI AND THE OTHERS SHOULD BE EASY TO FIND.

I'M HERE TO COLLECT THIS ONE. HAVE YOU HEARD FROM ANY EMERGENCY SERVICES?

I'VE NOTIFIED THE PARENTS AND LET THEM KNOW WE'RE OKAY. WE HAVE ENOUGH FRESH WATER AND SUPPLIES TO GET THROUGH THE NIGHT, IF WE HAVE TO. YOU'RE WELCOME TO STAY.

THAT'S NOT PART OF OUR FAMILY'S DISASTER PLAN.

ANGIE!

THEY'RE GETTING TO US BUT HAVING A LITTLE TROUBLE WITH THE ROADS, APPARENTLY.

SOME BIRTHDAY, EH, KID?
LATER...
ALMOST THERE. YOU DID GOOD.

JUST LIKE WE PRACTICED!

HEY, THE GUEST OF HONOR! WE WERE ABOUT TO CANCEL THIS BIRTHDAY PARTY!

THAT TREE FELL RIGHT ON MY BEDROOM, DIDN'T IT?

YOU'RE ALWAYS SLEEPING ON THE COUCH ANYWAY.

DON'T WORRY ABOUT IT, ANGIE--THE IMPORTANT THINGS IS YOU AND YOUR SISTER ARE SAFE. WE'LL START PICKING UP THE PIECES TOMORROW.

THE END
Earthquakes occur when the movement of Earth's tectonic plates causes rock deep underground to suddenly break along a fault. This sudden release of tremendous energy creates seismic waves that shake the ground.

Large earthquakes occur with rock movement of about a meter or two. Small earthquakes happen with movements of just millimeters.

The Pacific Northwest lies at a convergent continental boundary where two tectonic plates—the Juan de Fuca plate and the North American plate—are colliding.

The last "megaquake"—an earthquake of greater than 9.0 magnitude—is believed to have happened around 1700. Some seismologists predict the Cascadia Subduction Zone is due for another big earthquake sometime this century!
A **tsunami** is a series of ocean waves caused by a sudden, large displacement of water. Most often caused by earthquakes, tsunamis can also be triggered by landslides, volcanic eruptions, and comet or meteorite impacts in the ocean.

Tsunamis can move like a fast-rising flood tide, a storm surge, or an advancing wall of water. They strike with devastating force, and travel faster than you can run!

The first wave will not be the largest or the most dangerous. Additional surges may arrive ten hours or more after the initial wave.

You can find this and more geological information at the following websites:

- OregonGeology.org/sub/default.htm
- OregonTsunami.org
- Crew.org
- Tsunami.gov
PREPAREDNESS INFORMATION

BEFORE THE EARTHQUAKE
- Visit Ready.gov/make-a-plan.
- Make a plan, and make sure everyone in your family knows it.
- Practice it together.
- Buy or assemble an emergency kit.
- Register and participate in the Great ShakeOut earthquake drill at Shakeout.org.

DURING THE EARTHQUAKE
- Drop, cover your head, and hold on.

AFTER THE EARTHQUAKE
- If you are near water, move uphill and inland on foot as fast as possible—a tsunami may be on the way.
- Always follow your plan.
- Communicate with others around you.
- Have an out-of-state emergency contact saved and practice calling them.
- You may not be able to call across town, but out-of-state calls should go through.
- Texts often go through when calls don’t, so text first, talk second.

EMERGENCY GO-KIT PASSPORT
An Emergency GO-KIT PASSPORT is a printed and detailed emergency plan that each family member should carry. It can be found here:
Oregon.gov/OMD/OEM/plans_train/earthquake/go-kit_passport.pdf

You can do so many things to help keep your family and neighbors safe during and after an earthquake.
- Start a Teen CERT group at your school.
- Take a first-aid class.
- Organize your neighborhood.
- Ask your parents and teachers what their plans are and then practice with them.
RECOMMENDED SUPPLIES TO INCLUDE IN A BASIC EMERGENCY KIT:

- Water (one gallon of water per person, per day, for drinking and sanitation)
- Food (at least a three-day supply of nonperishable food)
- Can opener (if kit contains canned food)
- Prescribed medications
- Battery-powered radio and NOAA Weather Radio with tone alert, and extra batteries for both
- Flashlight and extra batteries
- First-aid kit
- Whistle to signal for help
- Infant formula and diapers (if you have an infant)
- Moist towelettes, garbage bags, and plastic ties for personal sanitation
- Dust mask or cotton T-shirt, to help filter the air
- Plastic sheeting and duct tape to create shelter
- Wrench or pliers to turn off utilities
- Important family documents, such as insurance policies, identification, and bank account records, in a waterproof portable container