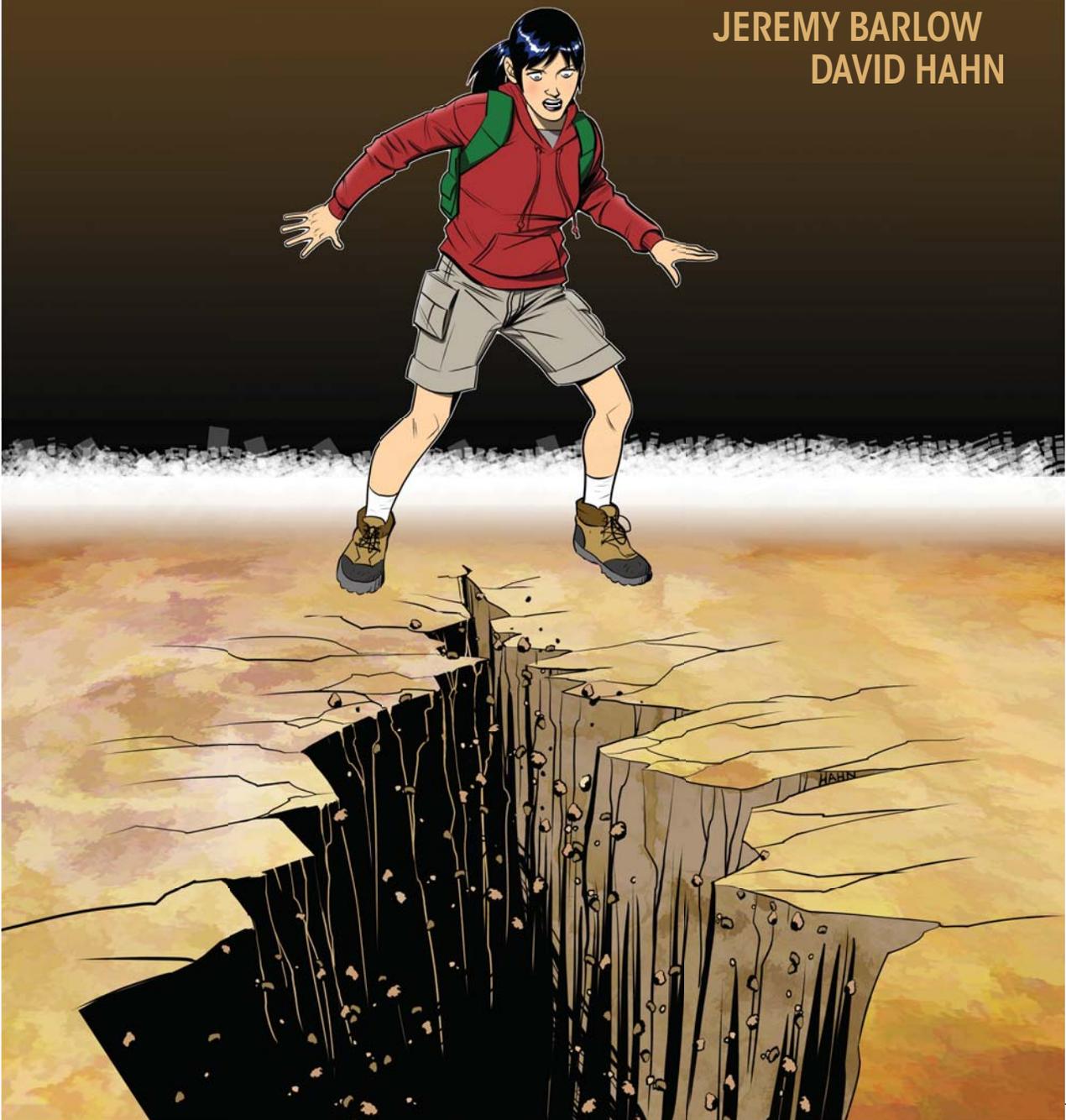




WITHOUT WARNING!

JEREMY BARLOW
DAVID HAHN





WITHOUT WARNING!

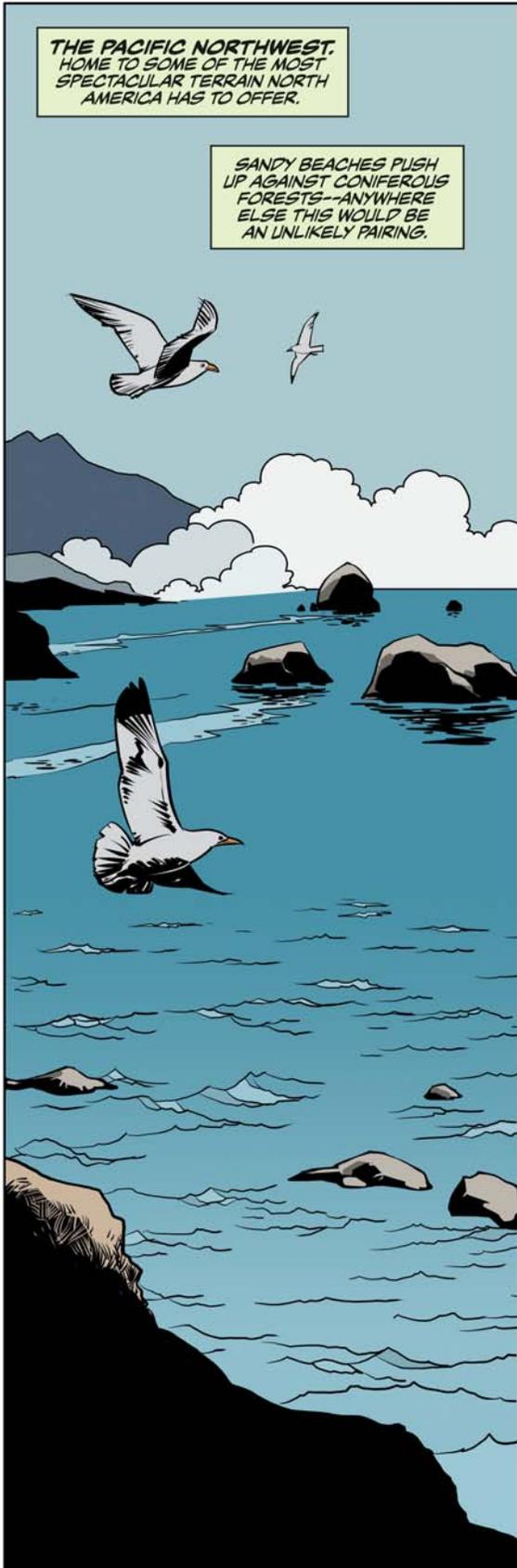
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Publisher **MIKE RICHARDSON**

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.

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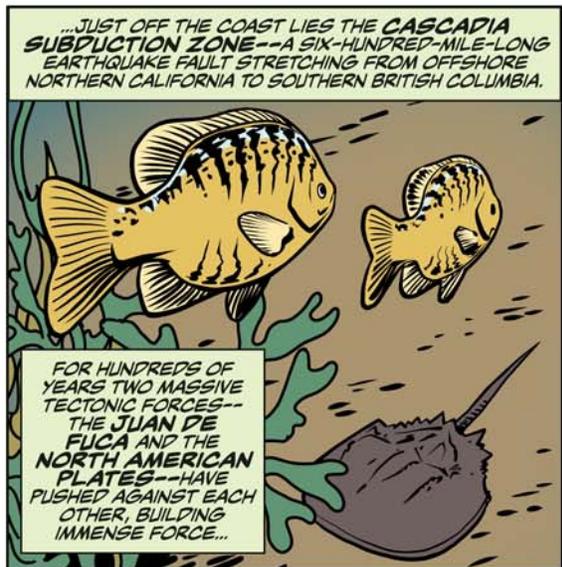


**THE PACIFIC NORTHWEST,
HOME TO SOME OF THE MOST
SPECTACULAR TERRAIN NORTH
AMERICA HAS TO OFFER.**

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

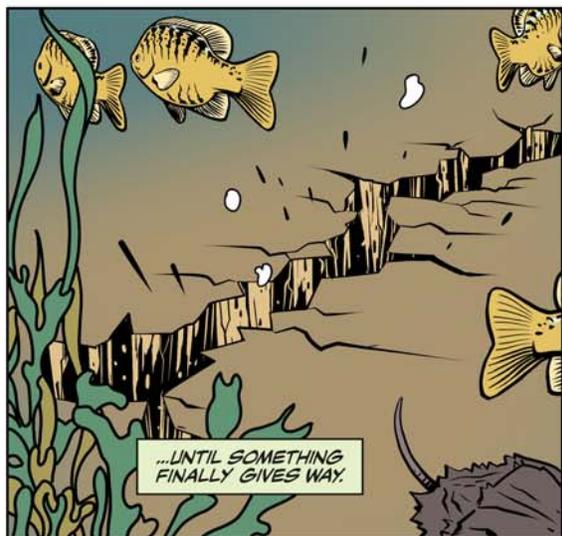


**BUT THAT'S NOT THE
ONLY STARTLING
CONTRAST HERE...**



**...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...**

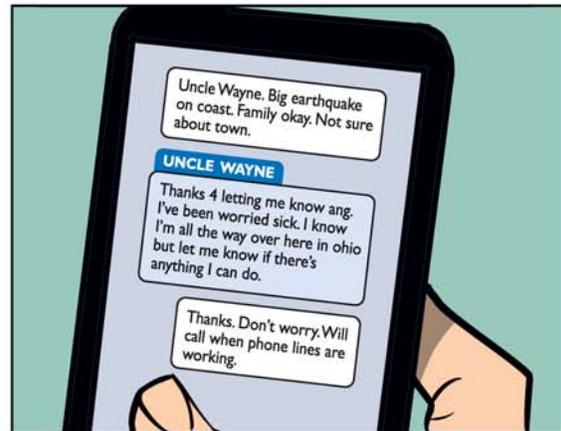
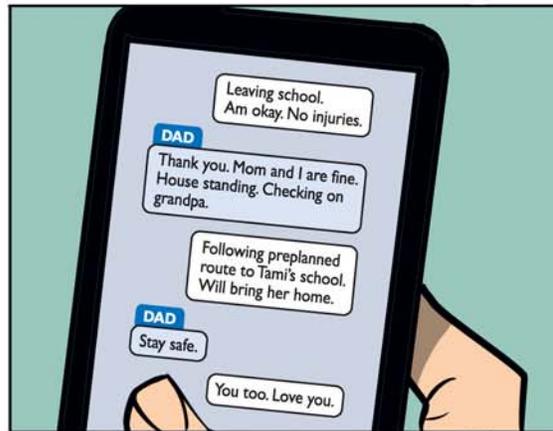


**...UNTIL SOMETHING
FINALLY GIVES WAY.**

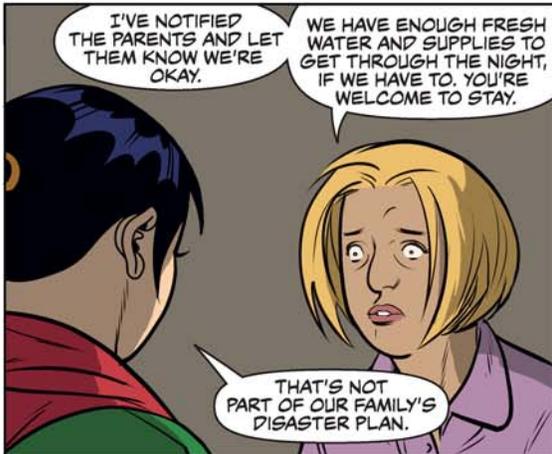


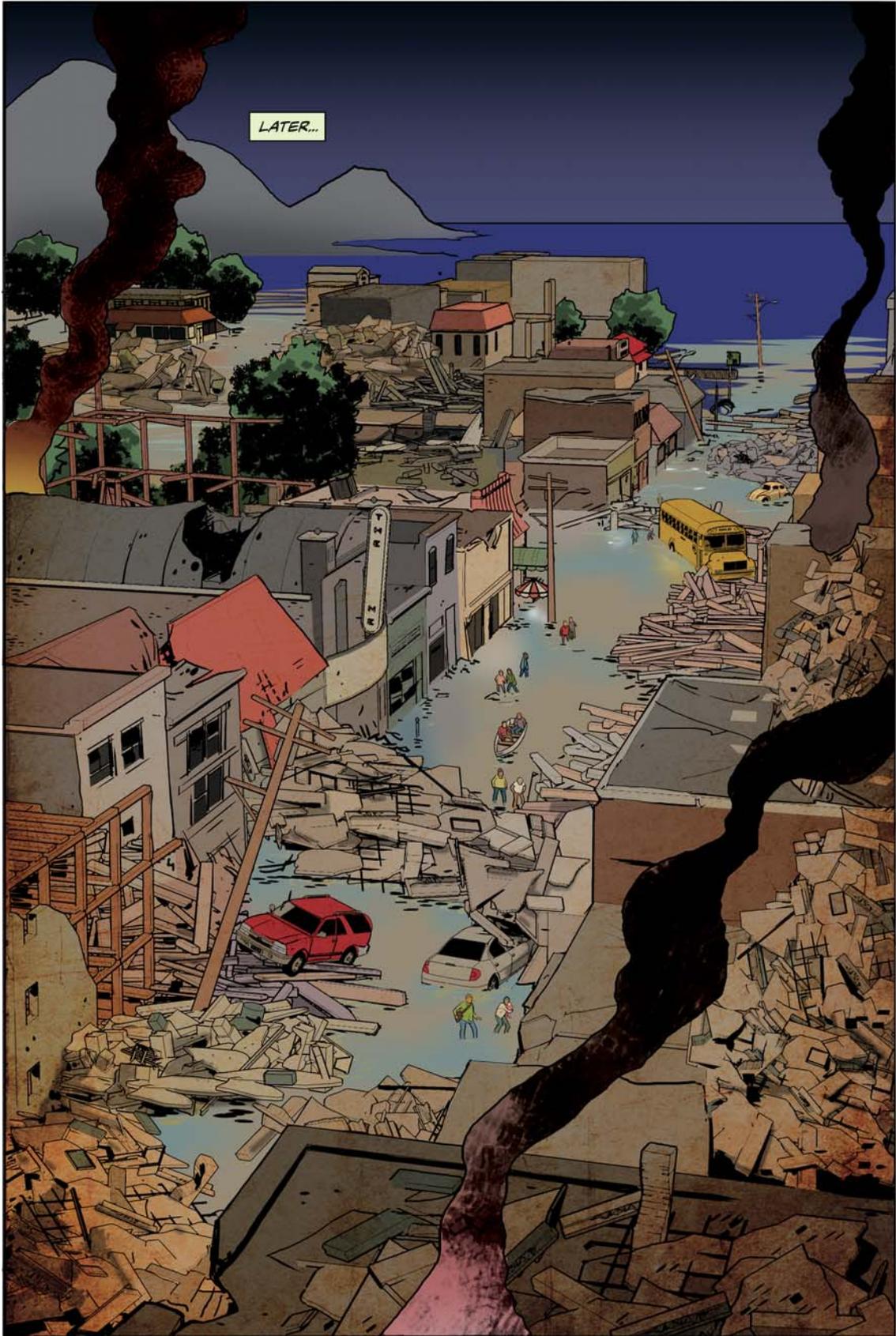




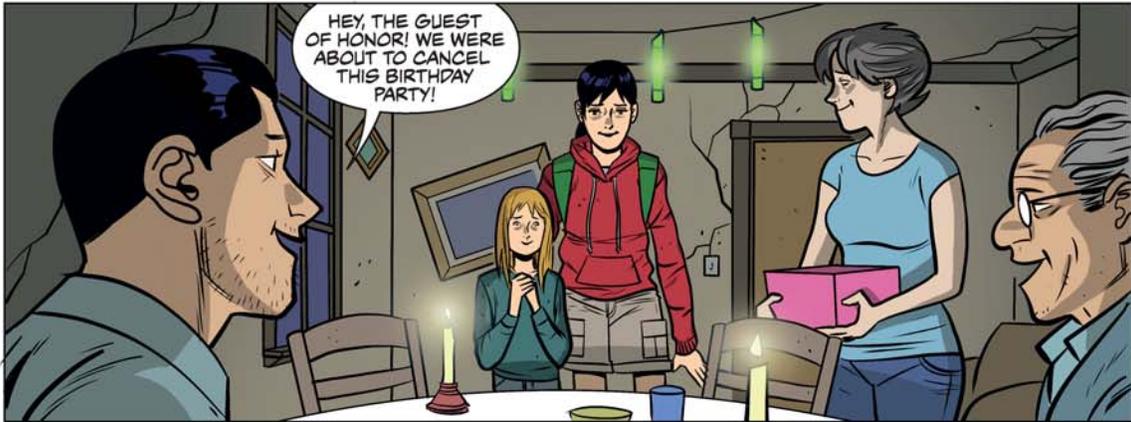




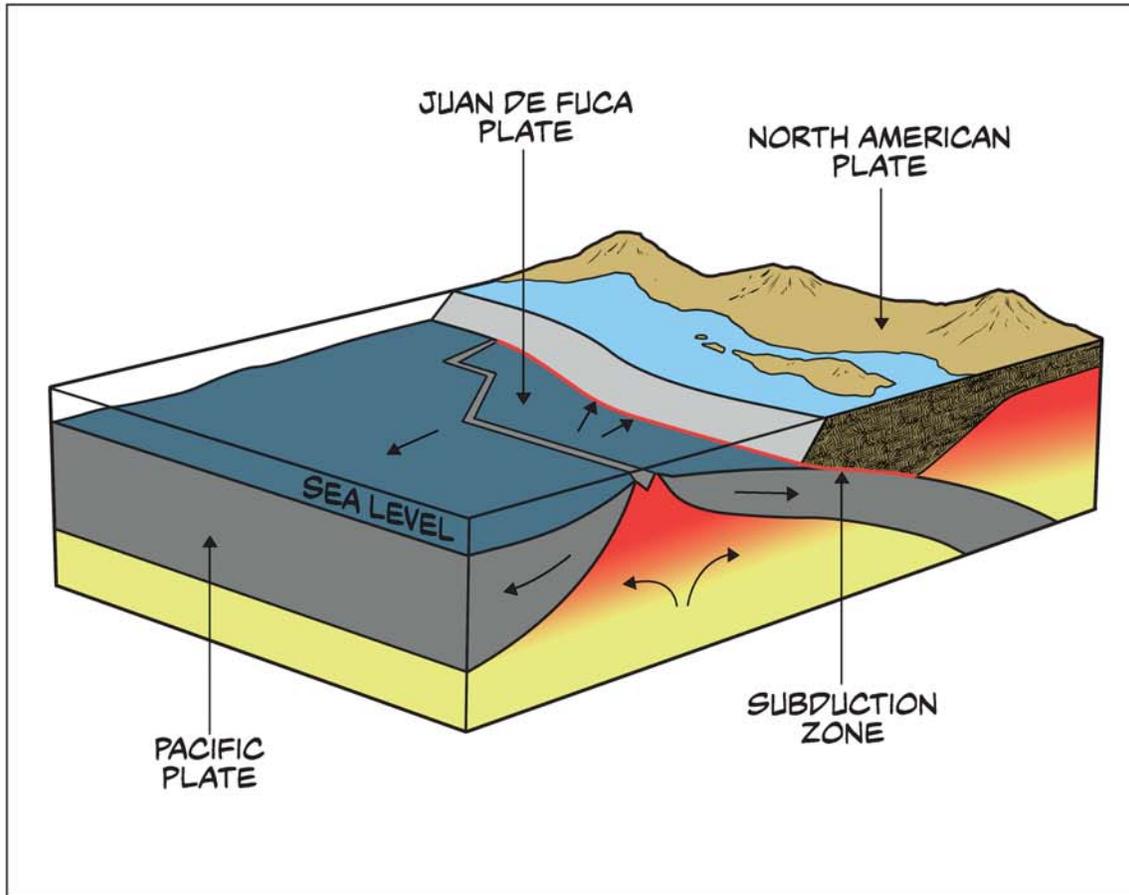








THE END



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

FEMA.gov/media-library-data/20130726-1446-20490-6333/fema-530.pdf

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