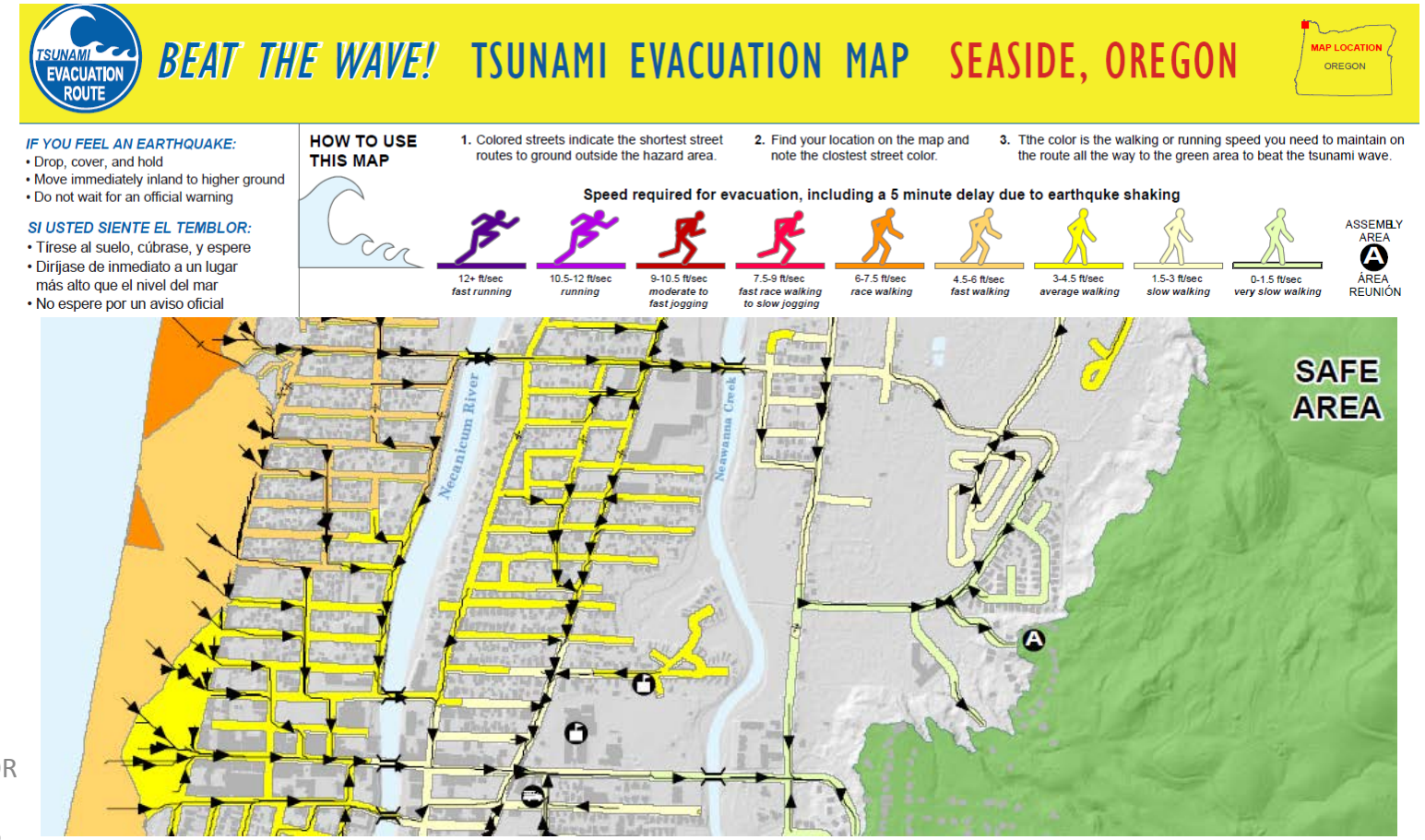
OREGON FY 2014 NTHMP ACCOMPLISHMENTS

George Priest, Oregon Dept. of Geology and Mineral Industries
Althea Rizzo, Oregon Emergency Management

Evacuation modeling and improvement

- Community way finding charrette done for Cannon Beach; new one being organized focusing on Seaside-Gearhart-Warrenton.
- New "**BEAT THE WAVE**" (**BTW**) approach passed USGS review; maps done for Seaside and Gearhart + nearly done for Warrenton. Journal article planned.



DRAFT

XX-Large Tsunami Wave Arrival

Tsunami Evacuation Project Coordination Meeting
January 21, 2015

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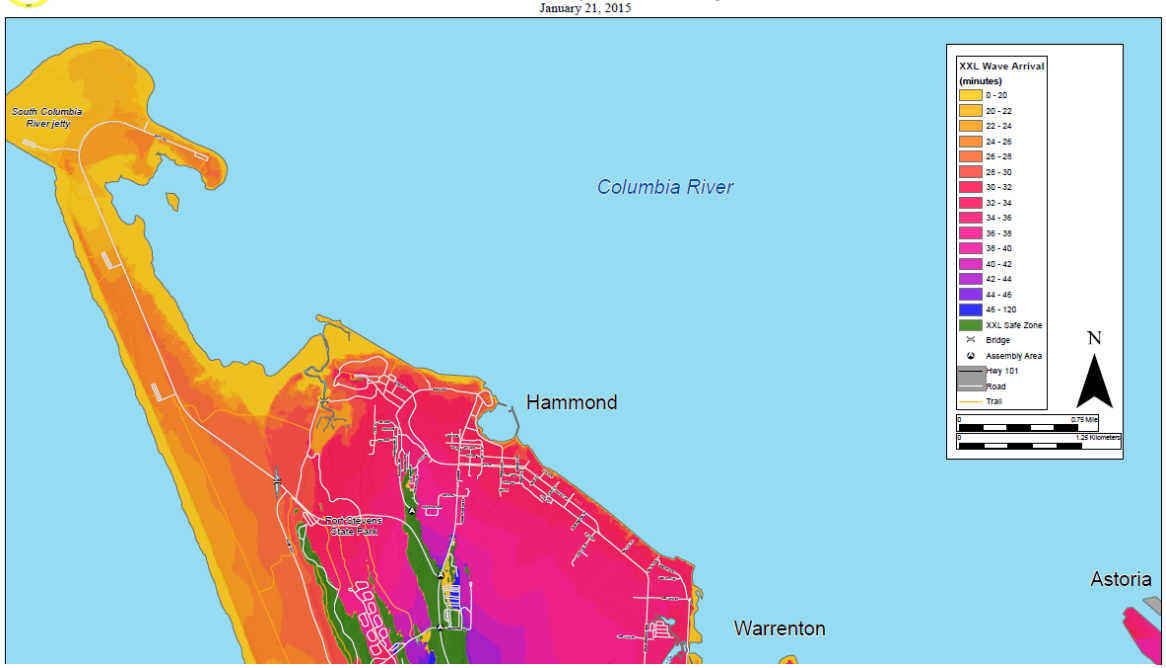

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XX-Large Maximum Tsunami Flow Depth

Tsunami Evacuation Project Coordination Meeting
January 21, 2015

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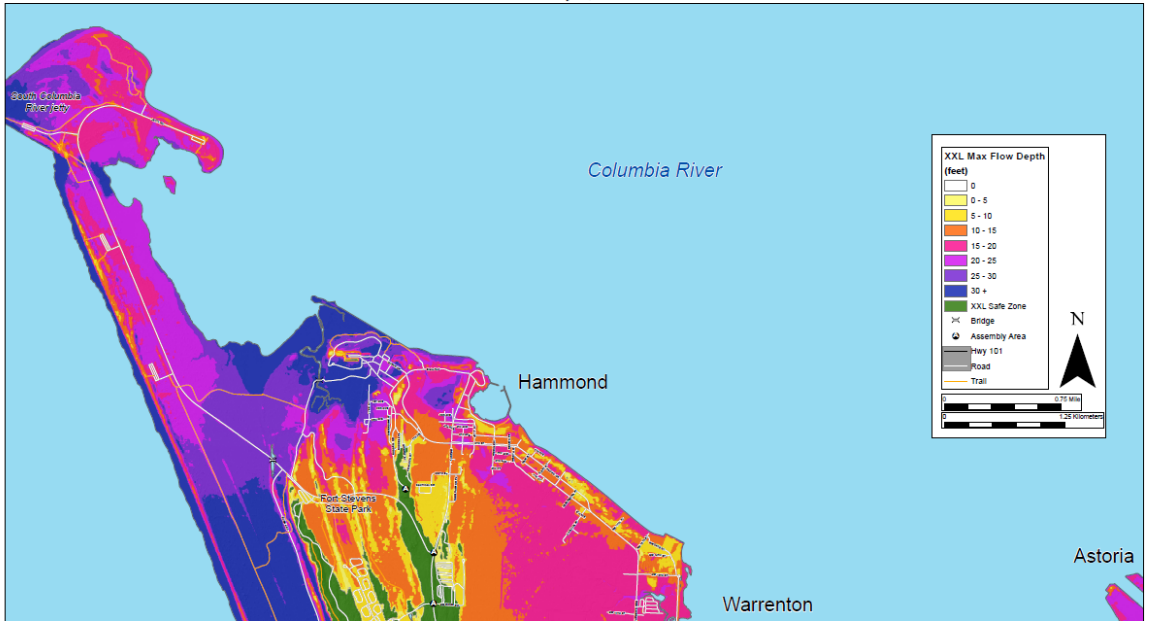
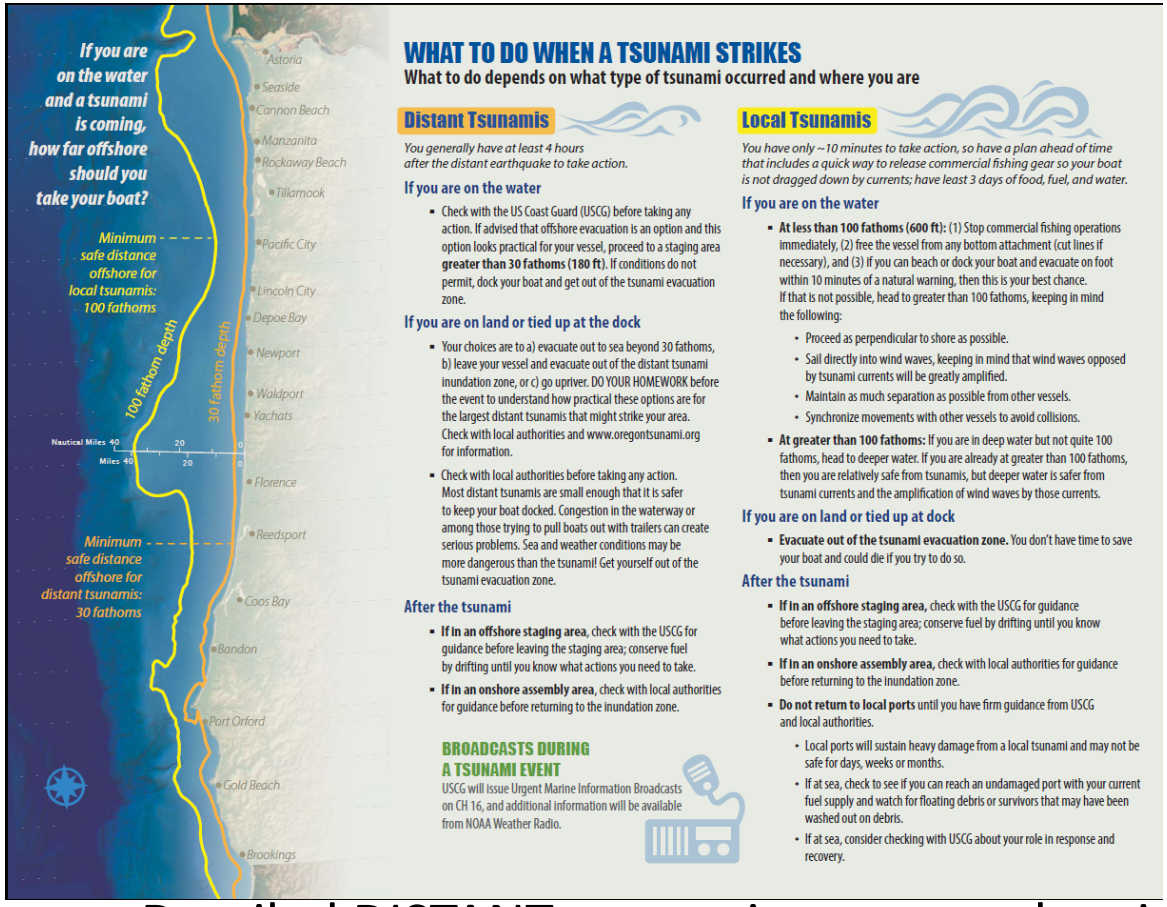


Maritime Guidance

– Statewide brochure distributed to ALL ports: **"30-100 Rule"** → separate guidance for **DISTANT** and **LOCAL** tsunamis.



http://www.oregongeology.org/pubs/tsubrochures/TsunamiBrochureMaritime.pdf

– Detailed DISTANT tsunami response planning initiated for Newport-Toledo; hazard maps and draft guidance sent to local stakeholders advisory committee.

SUMMARY OF DRAFT DISTANT TSUNAMI MARITIME RESPONSE GUIDANCE:

Ports Of Newport and Toledo, Oregon

- **Only for small craft** (vessels under 300 gross tons)
- **General Advice:**
  - Check with USCG and local authorities during and after the tsunami ADVISORIES or WARNINGS
  - Decide on action based on weather, experience, preparedness, & vessel type.
- **Toledo**:
  - ADVISORIES: NO action needed
  - WARNINGS:
    - Remain in port, securely moored.
    - Evacuate from DISTANT tsunami evacuation zone (**ORANGE** zone on evacuation maps).
- **Newport**:
  - ADVISORIES:
    - Evacuate from structures & vessels in the water; local authorities will wear flotation devices.
    - Port authorities will shut off fuel to fuel docks, and all electrical and water services to all docks.
    - Secure and strengthen all mooring lines, especially near the entrance or narrow constrictions.
  - WARNINGS:
    - On water: Go to >30 fathoms but use judgment before attempting versus mooring and evacuating.
    - Moored: Separate guidance for trailerable/non-trailerable for securing or removing vessels.
      - Trailerable: load the boat, and go outside the DISTANT Tsunami Evacuation Zone
      - Non-trailerable: strengthen mooring, add extra fenders, remove important items

“Up and Out” Tsunami Evacuation Way Finding

OEM and University of Portland Urban Architecture Laboratory

1. Brought together stakeholders to identify the best way to mark the routes to high ground (new visual language for signs, colors, types of signs, lighting).
2. Produced a report on effective evacuation strategies gleaned in part from the community meeting. http://www.oregon.gov/OMD/OEM/plans_train/Earthquake/Final%20Up%20and%20Out_for%20print.pdf

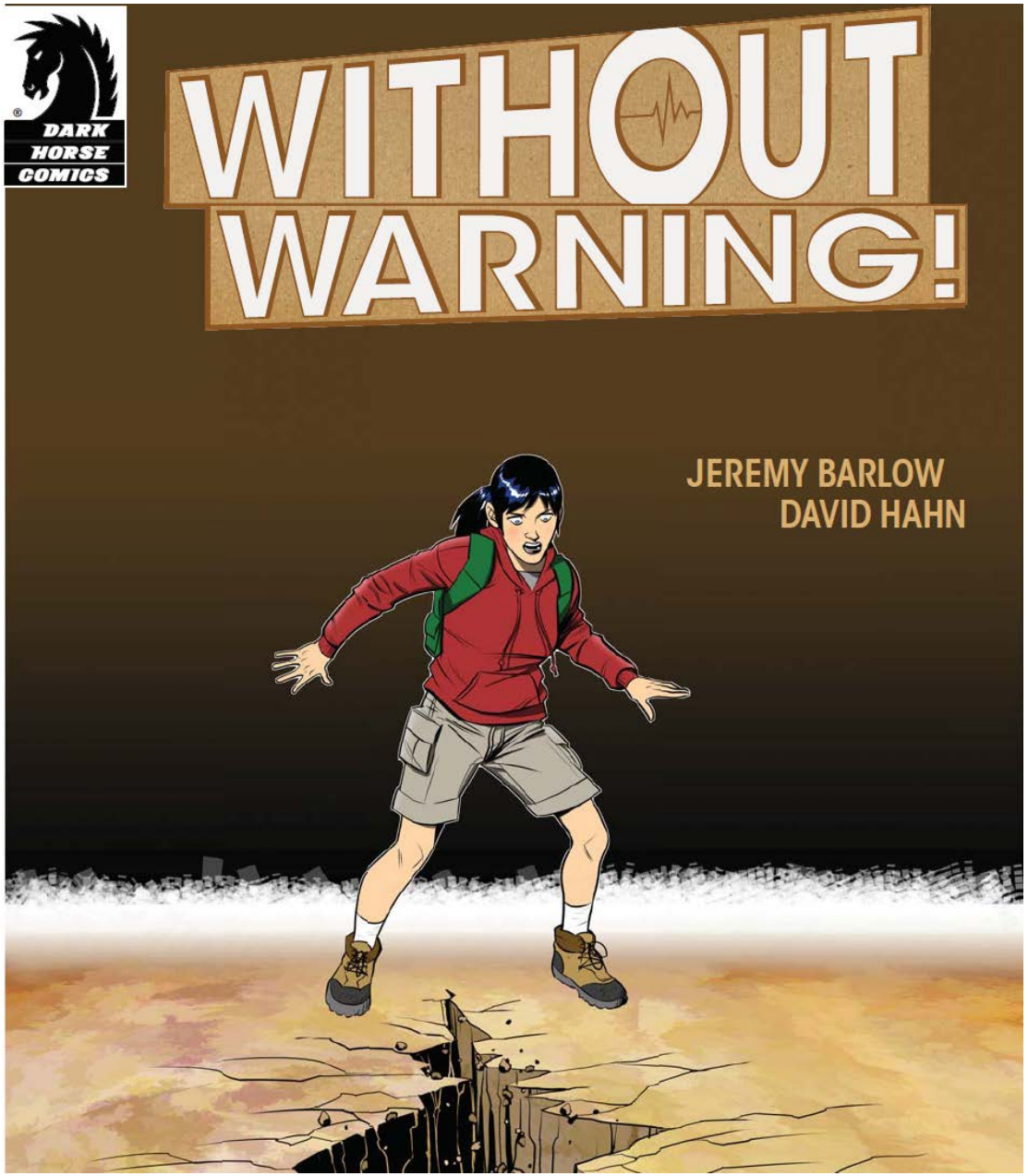
Oregon Coast Visitor Tsunami Visitor Awareness Project

The plan is to improved visitor’s awareness of the tsunami hazards and by giving the hospitality industry on the Oregon coast educational materials, especially a **video** for in-hotel channels: https://www.youtube.com/watch?v=adSVWaDmbHE&feature=youtu.be

CSZ Island Mapping

In the event of a Cascadia Subduction Zone earthquake and tsunami, damaged infrastructure due to damaged bridges, landslides and liquefaction will isolate coastal populations into “islands”. The OEM “**Island Mapping Pilot Project**” is mapping coastal populations in relation to infrastructure damage after an earthquake and tsunami.

Darkhorse Comic, “Without Warning” was produced to teach earthquake preparedness to children.



http://www.oregon.gov/OMD/OEM/plans_train/Earthquake/Without_Warning%20resized.pdf