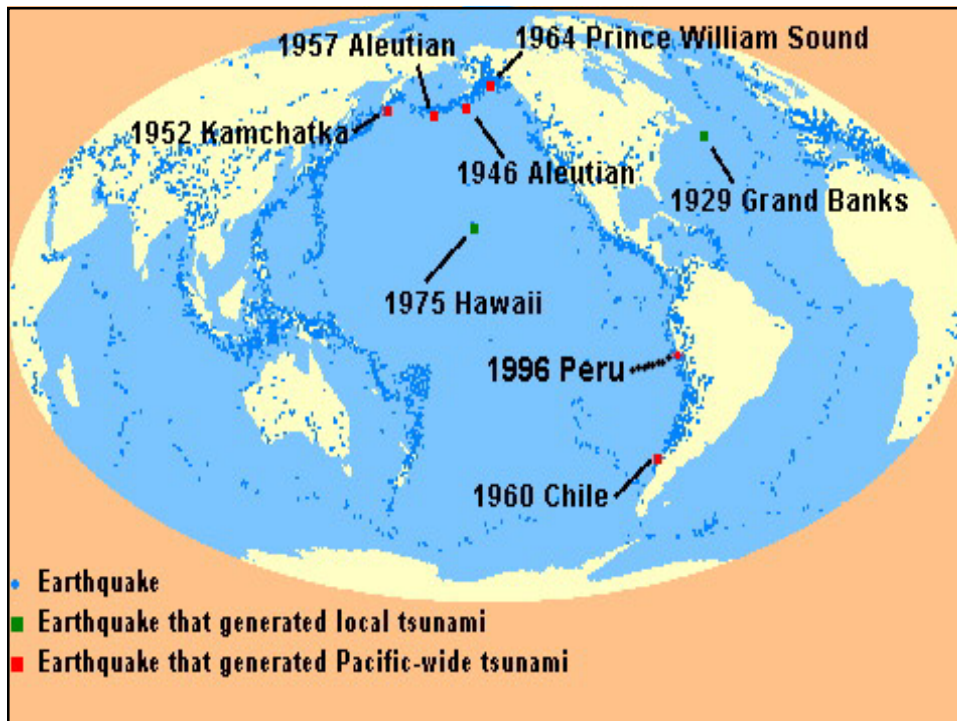


Washington State Emergency Alert System



1946 Aleutian Tsunami

Before



105 Ft at Unimak, Alaska

36 Ft at Hilo, Hawaii

After



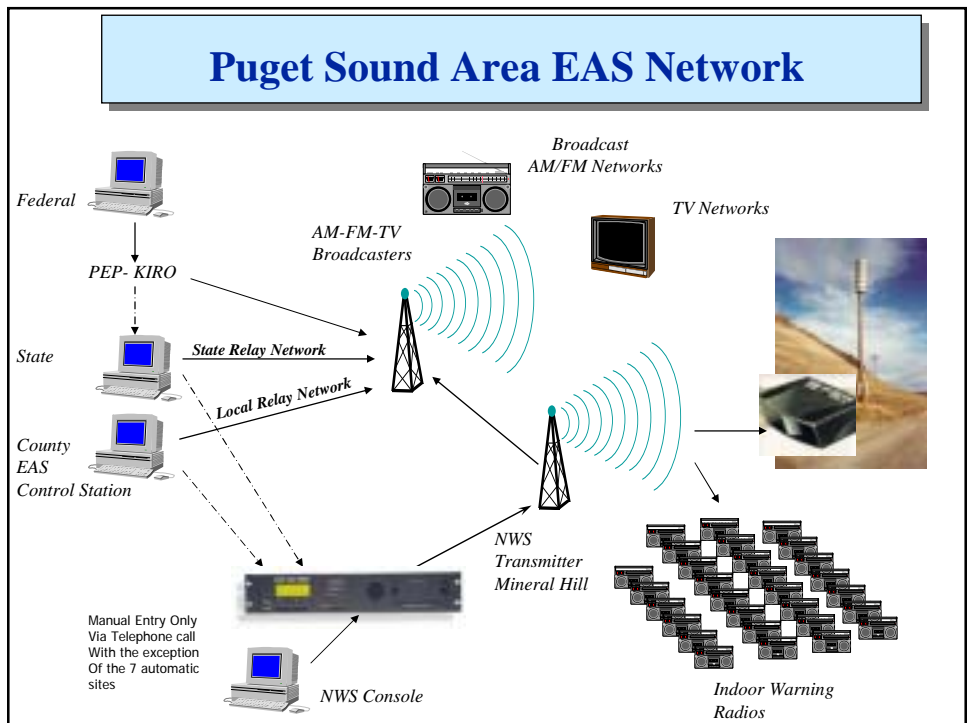
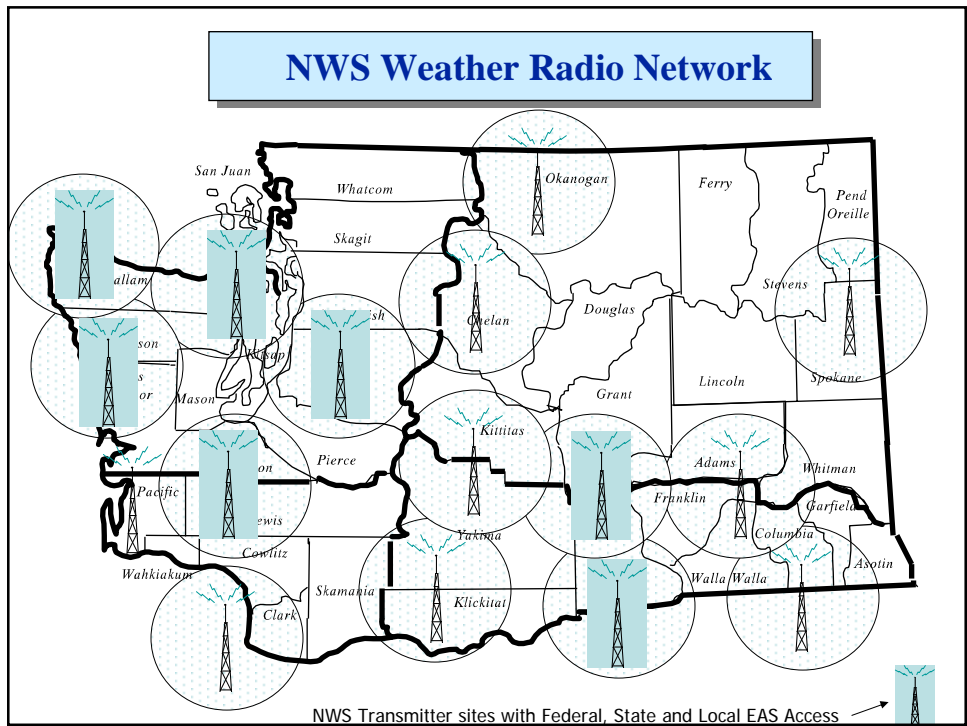
Scotch Cap Lighthouse on Unimak Island, Alaska as it looked before the earthquake and tsunami. The structure was built in 1940. It was 40 feet above the sea and was five stories high.

1964 Prince William Sound Tsunami

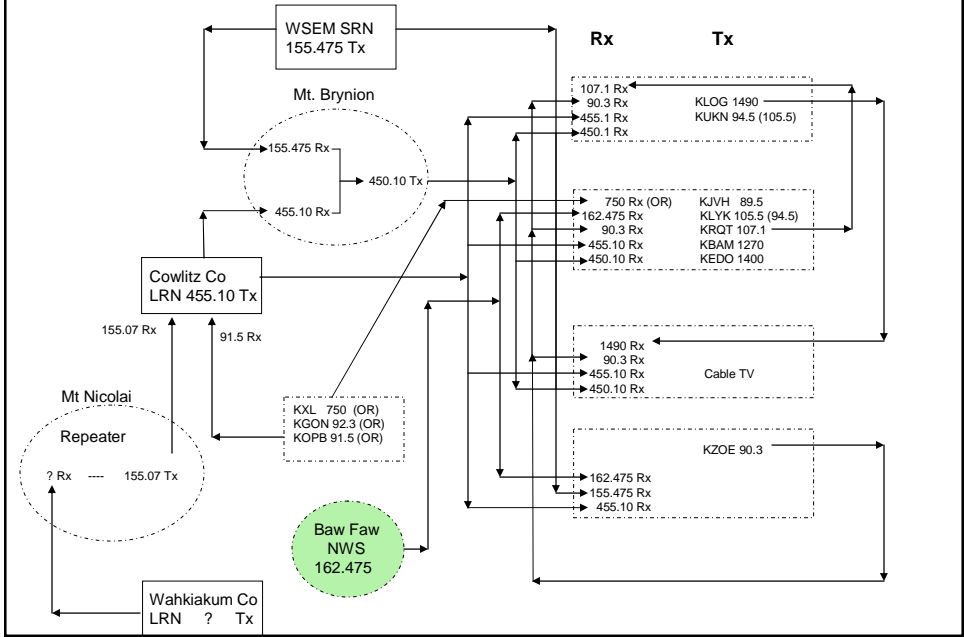


95 Ft in Alaska

9 Ft in Hawaii



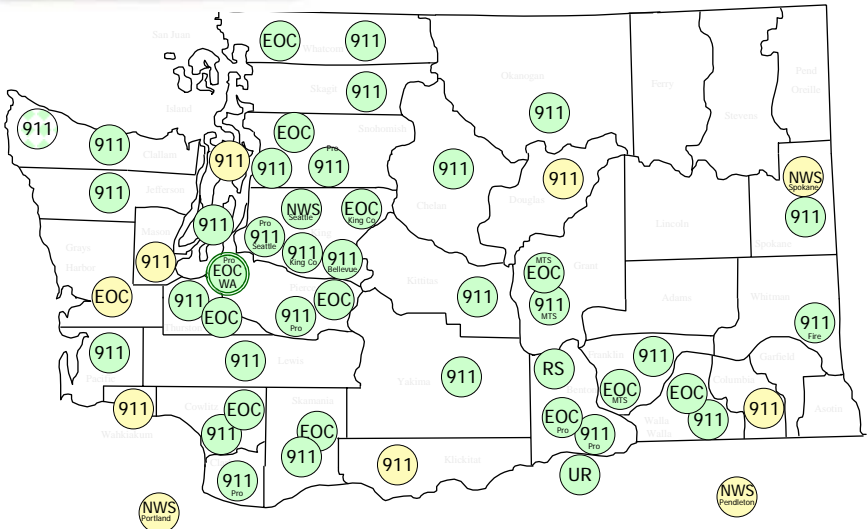
Cowlitz & Wahkiakum EAS



Civil Authority Action Points



	911 and EOC Co-located with 1 EAS encoder		Operational
	Operational with New Event codes and filters		In Progress



EAS Challenges

- ï No Funding
- ï Patent issues
- ï Maintaining State and 17 Local Plans
- ï 54 State and Local Activation Points
- ï 250+ Broadcaster Relay Points
- ï 20 Radio Networks
- ï Monitoring Assignments
- ï Audio Levels
- ï Programming assignments
- ï Training Issues
- ï Population at Risk may or may not be reached
- ï Weather radios coverage areas
- ï SRN and LRN coverage areas
- ï Broadcaster participation
- ï NOAA Receiver model differences
- ï EAS Security
- ï Dual Alerts for NOAA network
- ï Broadcast satellite radio and TV

National Warning Protocol

- ï Utilizing a **common** National Warning Protocol; ie: Routing information, activation interface module(s), with EAS tones and audio, followed by non-EAS audio and data, email, etc.
- ï Combines **TCP/IP and GPS** technology to allow transmissions over any available telecommunications media to include satellite, internet, radio, microwave, telephone, etc.
- ï **User friendly** activation interface with site specific parameters and authorization.
- ï Nationwide **GIS addressing scheme** based upon **longitudes and latitudes**.
- ï **Interfaces with EAS** directly.
- ï Highly **secure**.
- ï **Standards Based**.

National Warning Protocol

- ï **One activation** including EAS audio and routing of supporting graphics and text.
- ï Allows for **various levels and priorities of activation**, notices, public information and alerts.
- ï **Flexibility** of design to allow improvements.
- ï Ability to directly **interface with legacy** systems; sirens, signs, web-sites, pagers, email, telephone, radio, list servers, satellite systems, etc.