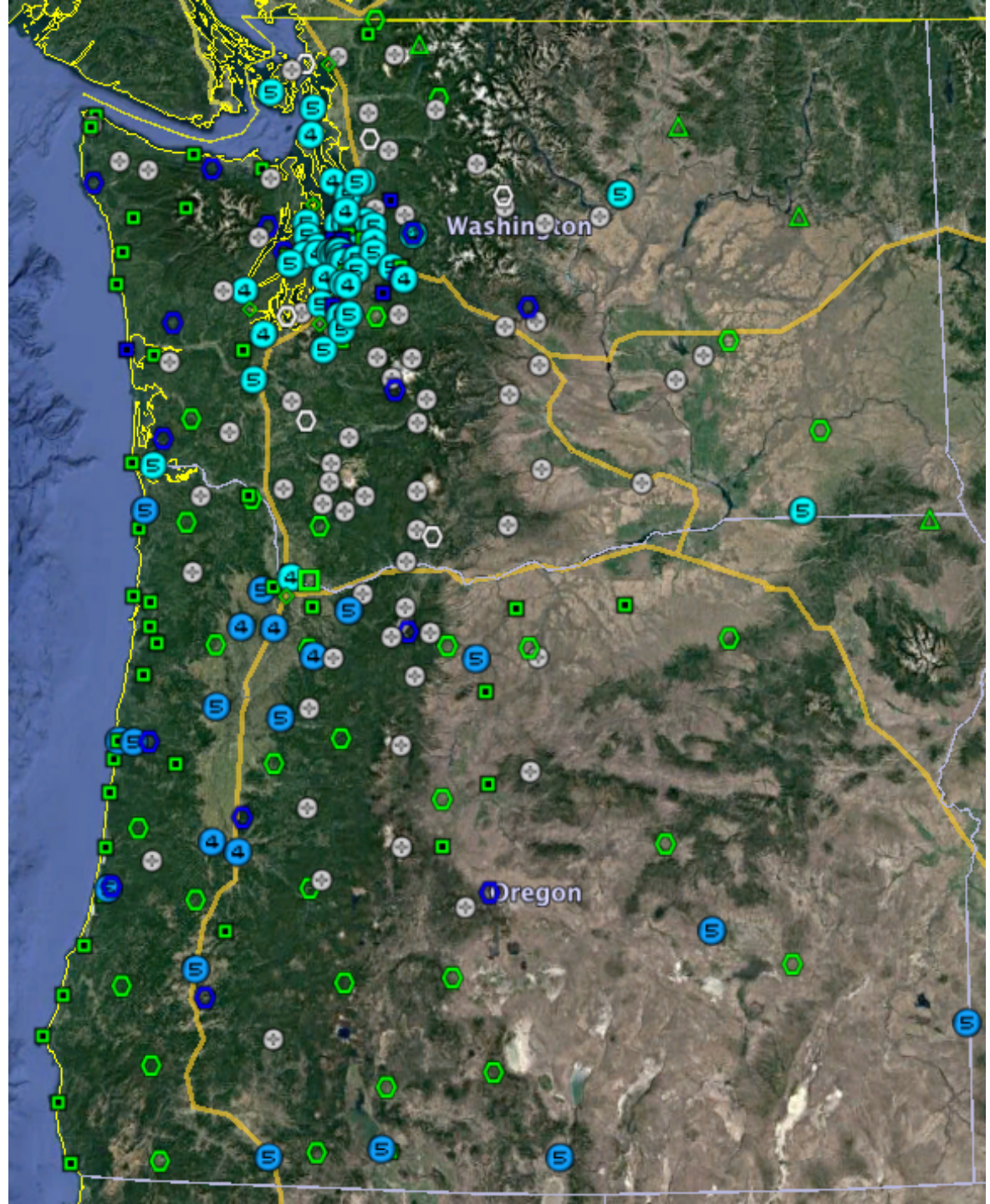


PNSN network map, EEW related:

- Currently contributing (green, dk. blue)
- Upgrades to contributing (blue/lt. blue 4/5)
- Analog stations selected for upgrade (grey +)





Techniques and impacts of reducing latency/Other EEW issues...

- Packet size and data format considerations:
 - 2016-7 dedicated to upgrading insufficient hardware. Upgrading K2 and MSS100/CMG-3T suites, transitioning to Obsidian and TitanSMA. Working with reducing packet sizes to improve latency, Mini-seed Kinematics Rock (Basalt and Obsidian).
 - Q330 send short packets, all delivering low-latency data. Some RT-130 require GPS firmware upgrades, new features being tested.
- Telemetry considerations (radio parameters, modems, packet priority/QoS, etc.):
 - Datalogger/network settings: No low rate packets..... Everything is as fast as we can...
 - Collaborating with ODOT wireless/maintenance infrastructure. Looking to expand use of microwave infrastructure, opportunity to eliminate cell modem sites in place of radio links to ODOT facilities.
- Data quality with respect to signal noise types and statistics:
 - Currently not doing anything systematic - lack manpower. More of a spot checking approach. SiesNetWatch is our default tool, Swarm provides power spectra. Wish we had more time for quality of data....