



# Civil GPS Service Interface Committee

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## Surveying, Mapping, and Geosciences Subcommittee

*Chair: Dr. Kevin Choi, NOAA-National Geodetic Survey*

**25 September 2017**



# Surveying, Mapping, and Geosciences Subcommittee



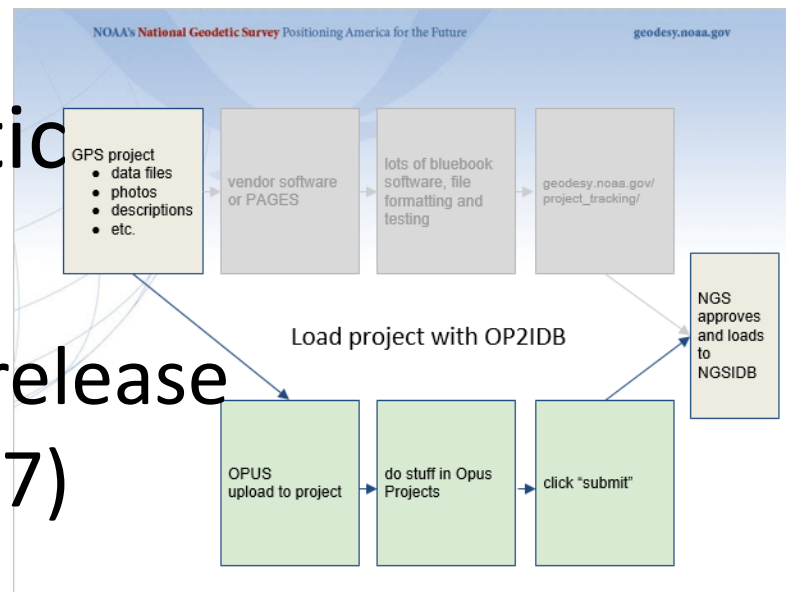
- 5 U.S. Federal Government
  - NOAA National Geodetic Survey (2)
  - NOAA Space Weather Prediction Center
  - U.S. Geological Survey
  - Dept. of Transportation
- 1 State Government
  - Oregon DOT
- 1 Academia
  - Seoul National University



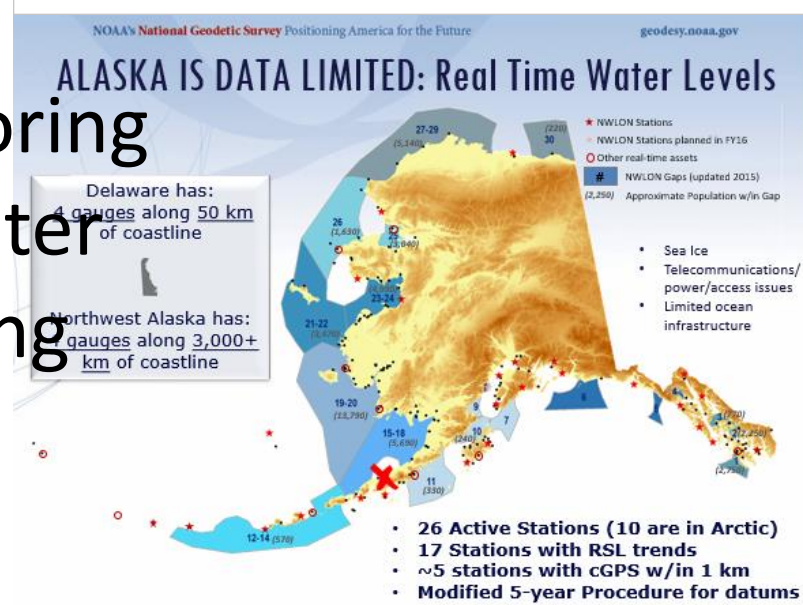
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- NOAA National Geodetic Survey
- Rick Foote – NGS beta release of OP2IDB (Oct 25, 2017)



- Dr. Nic Kinsman – Exploring alternate option for water level measurement using GNSS in Alaska

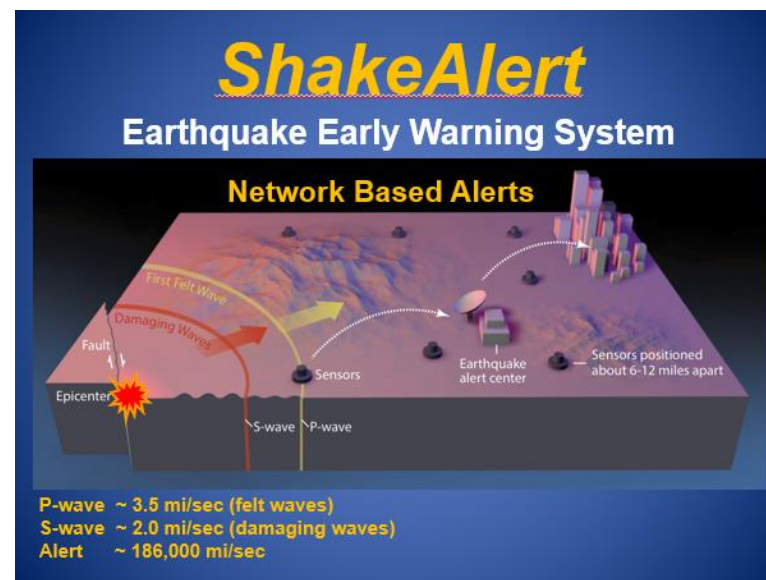
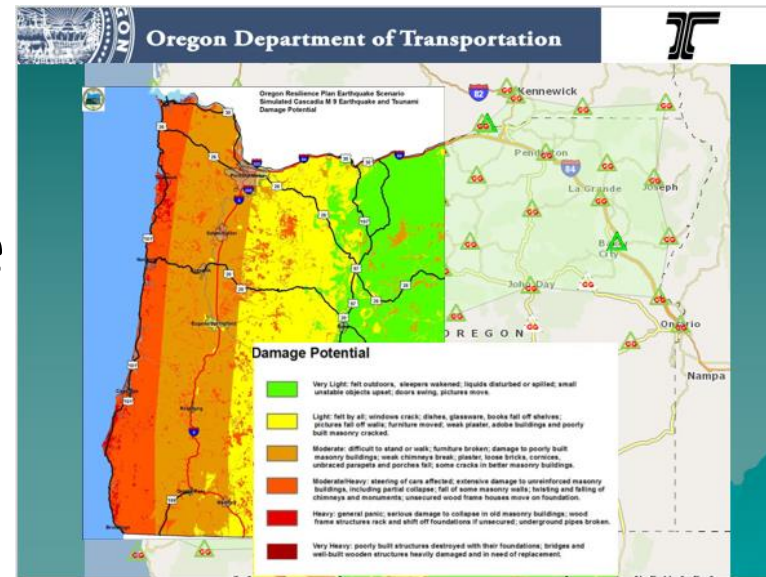




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- Oregon DOT
  - Randy Oberg – Realtime infrastructure for Emergency Response
- U.S. Geological Survey
  - Larry Hothem -Realtime Earthquake monitoring Program using GNSS



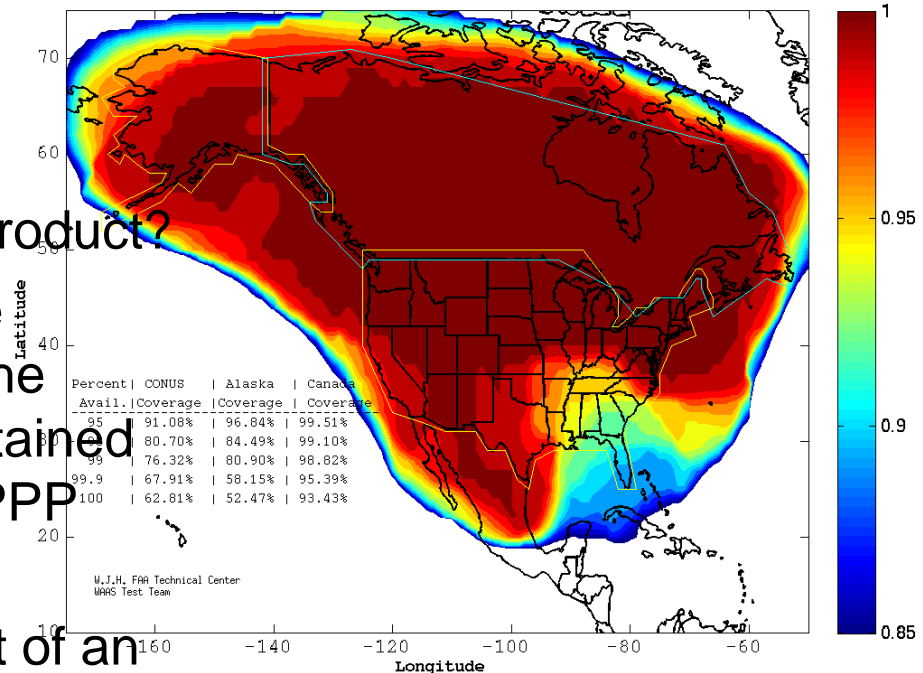


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- NOAA Space Weather Prediction Center
  - Rob Steenburgh – Questions for the GNSS community

WAAS LPV200 Coverage Contours  
09/08/17  
Week 1965 Day 5



- Do you use NATEC/USTEC?
- Have you used the new CTIPe product?
- Is there interest in an ionosphere disturbance index derived from the comparison of position errors obtained from dual and single frequency PPP algorithms at reference stations?
- How useful is a 3-6 hour forecast of an ionosphere disturbance?

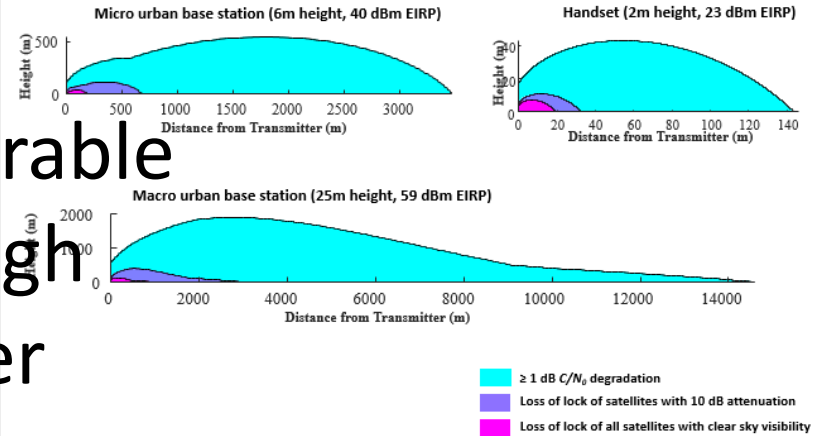


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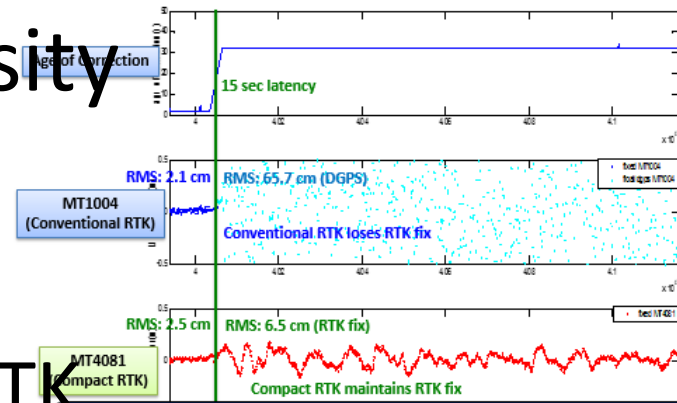
- U.S. DOT
- Dr. Hadi Wassaf – Tolerable transmitter EIRP for High Precision GNSS receiver

## Results: Region of Impact for ITU Recommended Power Levels Discussed in Previous Slides



- Seoul National University
- Dr. Junseol Song – Development of Low bandwidth compact RTK

## Time Series of Vertical Error for Max. 30sec Latency



Compact RTK provides stable RTK-fix position even under 30sec latency unlike conventional RTK