



# 56<sup>th</sup> Meeting of the CGSIC



**U.S. Nationwide Differential GPS  
(NDGPS)**



# Discussion Topics



- System Overview
- Review of 2016 System Changes
- Coverage Graphics
- Future of U.S. DGPS
- Questions??



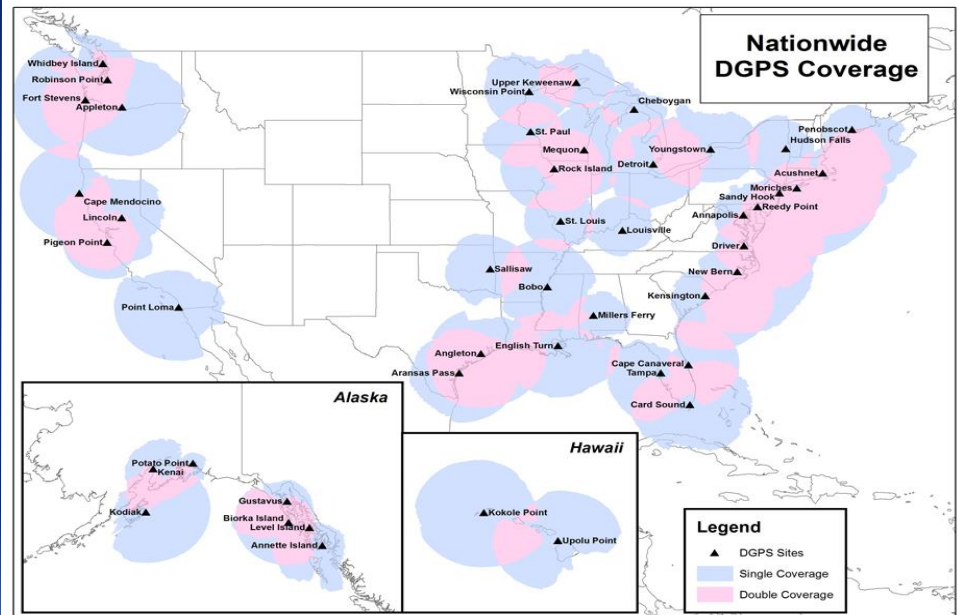


# System Overview



## System Description

- 46 Nationwide Remote Broadcast Sites throughout the United States and territories (39 USCG and 7 USACE)
  - System in operation since 1996
  - Better than 10 meter accuracy
  - Sites equipped with out-of-tolerance user alerting
  - 10 second integrity alarm to the user
  - Satisfies Harbor/Harbor Approach requirements
  - 99.7% availability requirement
  - 99.9% availability requirement for Vessel Traffic Service (VTS)



## Operations

- Redundant equipment at sites
- Redundant control stations at NAVCEN

## Stakeholders

- U.S. Army Corps of Engineers (USACE)
- Department of Transportation (DOT)
- National Oceanic & Atmospheric Administration (NOAA):
  - Continuously Operating Reference Stations (CORS) network



# 2016 NDGPS Changes

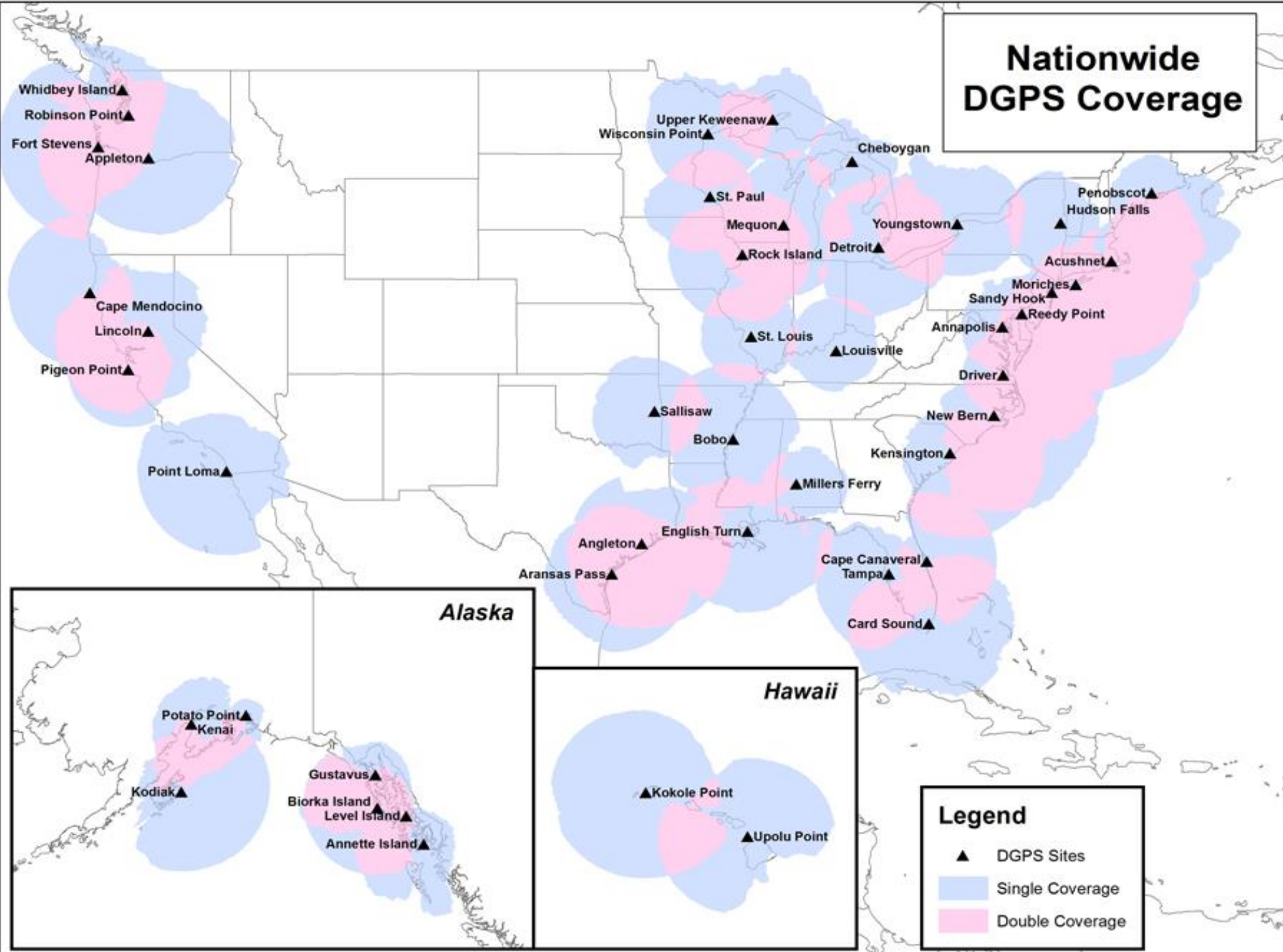
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- Adjudicated comments from 2 Federal Register Notices
- Transitioned from 83 to 46 sites on Aug 4, 2016
  - Eliminated inland coverage
  - Maintained majority of maritime coverage; most of the sites maintained by USCG & USACE
- Shifted to single maritime coverage in most areas
- Will continue evaluating future DGPS need as other GPS augmentation systems mature



# Nationwide DGPS Coverage





# Next Steps



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- Assess CPNT application of DGPS infrastructure
  - Decommission/divest 28 DOT sites
  - Decommission/divest 9 maritime sites
  - Evaluate future reductions and alternatives