



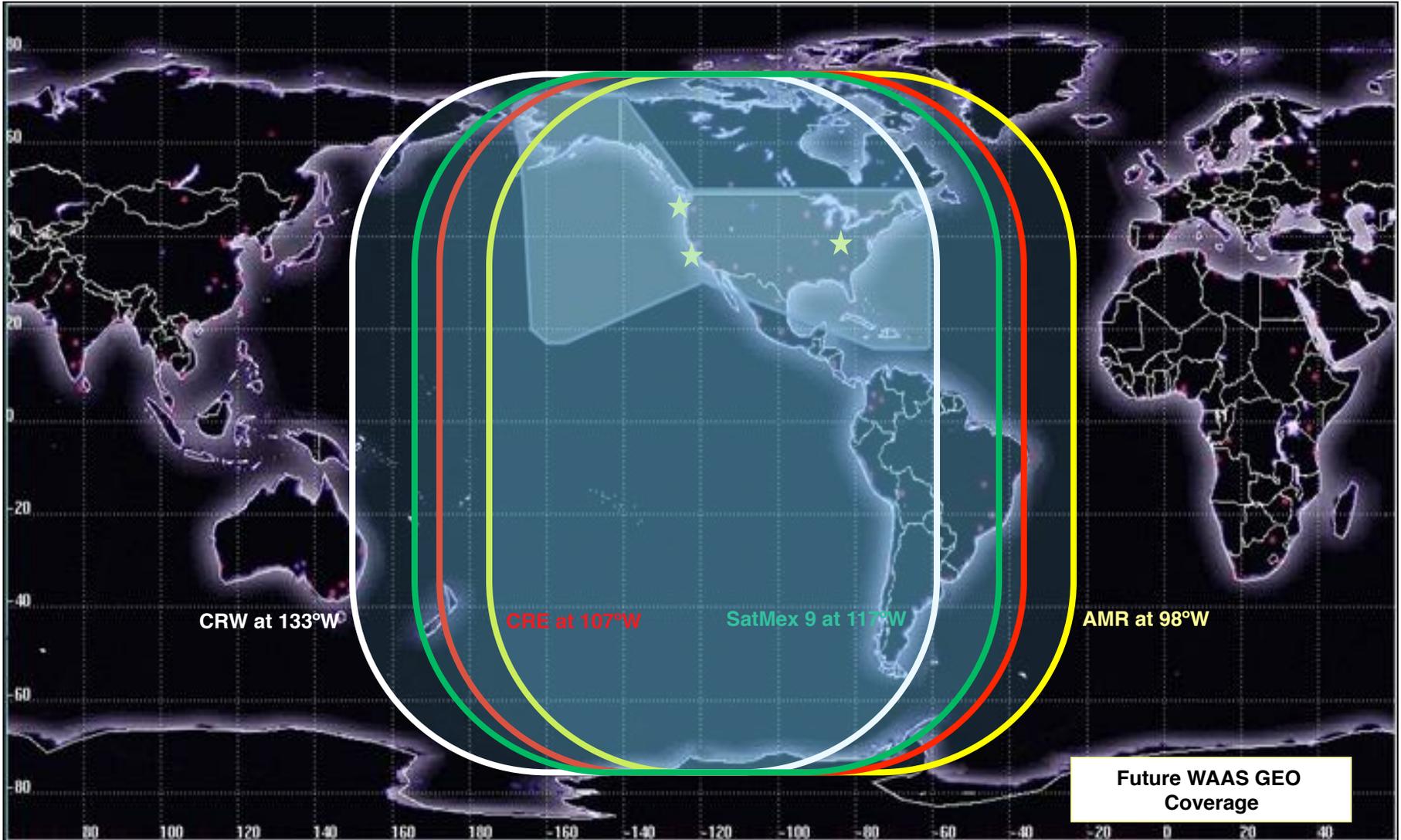
Wide Area Augmentation System (WAAS) and NDGPS Update

10th Meeting of the International
Committee on GNSS
Boulder, CO, U.S.

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WAAS GEO Footprints

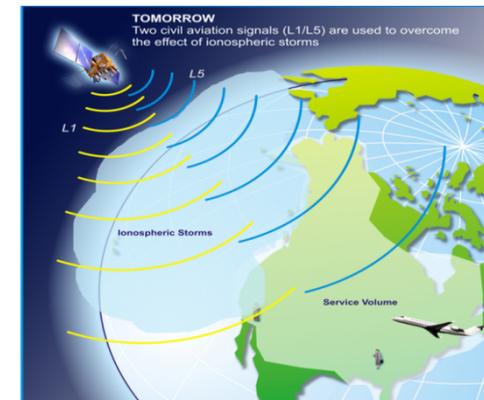
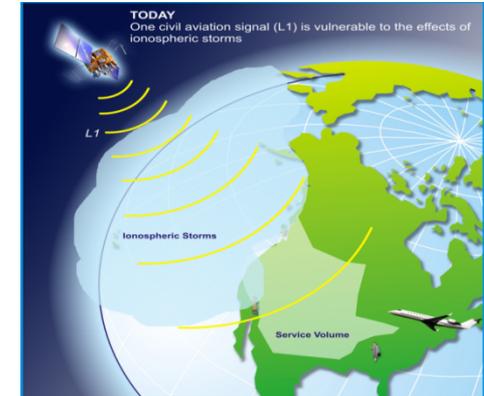




WAAS Phase IV Dual Frequency Operations Status

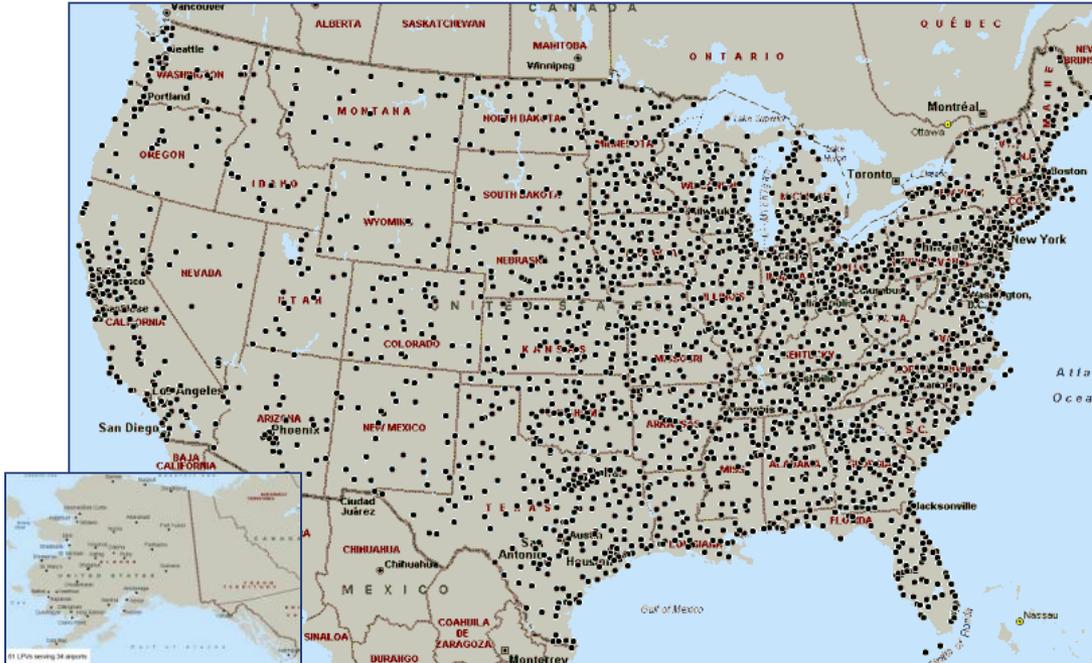


- Transition from use of L2 P(Y) to L5
 - Planned ‘Sunset’ of L2P(Y) is driver for transition
- Phase IV Segment 1 consists of 5 Releases
 - Release 1 (Processor Upgrades) currently on schedule to be complete by summer of 2017
 - Release 2 (GEO 5) on schedule for operational GEO by the end of CY2017
- Dual-Frequency Multi-constellation Capability (DFMC)
 - MOPS and SARPs development underway
- Advanced RAIM (ARAIM)
 - Concept definition underway to look at avionics centric approach for use of multi-constellation GNSS





Procedures & Users Depending on WAAS



- Procedures
 - As of October 15, 2015
4,186 WAAS Procedures published
 - 3,590 LPV procedures
 - 596 LP procedures



- Approximately 85,500 WAAS equipped aircraft
- All classes of aircraft are served in all phases of flight
- Enabling technology for NextGen programs
 - Automatic Dependent Surveillance Broadcast (ADS-B)
 - Performance Based Navigation (PBN)





Future of Nationwide Differential GPS (NDGPS)



- Current system utilizes 84 broadcast sites to provide positioning accuracy of 1-3 meters across 92% of CONUS
 - Few users of the NDGPS broadcast
 - USCG, DOT, and US Army Corps of Engineers Plans:
 - Retain NDGPS at 21 sites for single station near-shore coverage
 - Decommission 62 sites
 - One US Army Corps of Engineers (USACE) site to remain
 - Termination of NDGPS broadcast at 62 proposed sites planned for Jan. 15, 2016*
- * November 16, 2015: 90-day FRN comment period closes; Impact and alternative site use assessed



Proposed NDGPS Coverage with 62 Sites Decommissioned

