

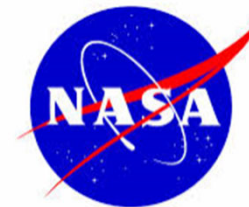


SARSAT MEOSAR/MCC and Ground System Updates

SARSAT Beacon Manufacturers Workshop 2023

Mr. Allan Knox

NOAA

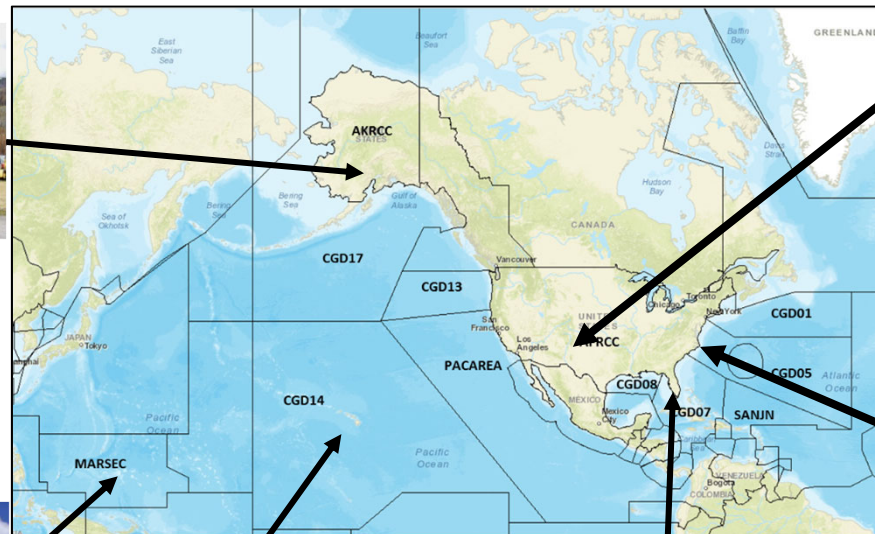




US SARSAT Ground Segment



Alaska
NOAA Fairbanks, Alaska
Command and Data
Acquisition Station
(FCDA)
2 LEO/MEOLUTs



New Mexico
SUSA MEOLUT
Phased array
Undergoing testing



Maryland (NSOF)
US Mission Control Center
2 GEOLUTs & 1 test GEOLUT
1 Test LEO/MEOLUT
1 Test Phased Array under
development (Rabbit Ear re-
inforcement delay)



Guam
Joint Region Marianas Navy Facility
2 LEO/MEOLUTs
Phased Array anticipated
commissioning in Spring/Summer
2024



USCG COMSTA
2 LEO/MEOLUT
&
6 antenna MEOLUT
Refresh and Phased array



Miami
USCG COMSTA
2 LEO/MEOLUTs
&
6 antenna MEOLUT
Refresh and Phased array
Contracting Effort underway



USA LEO/MEOLUT Status

- MEOLUTs
 - Florida commissioned to IOC (2022)
 - Tracking refresh complete summer 2023 and phased array install underway - ETIC later 2024
 - Hawaii Tracking final moving beacon testing completed April 2023
 - Tracking refresh and phased array install underway - ETIC summer 2023
 - New Mexico - Phased-Array commissioning planned in summer 2023
 - Maryland - Test Phased-Array MEOLUT planned (L-band only) (TPAM)
 - Installation will be scheduled after reinforcement of the rabbit ear is completed
 - Guam Phased Array scheduled for Installation and commissioning by Spring/Summer 2024
- LEO/MEO
 - Guam Installed and commissioned as of 2022



USA LGM MCC

Commissioning Schedule

- **Commissioned**
 - ELT(DT) / SGB capability - USMCC / FMCC cross commissioning completed in 2022
 - QMS - Currently assessing availability of France for QMS cross commissioning start date
- **Planned Commissionings**
 - LGM CMCC commissioning to be scheduled
 - ARMCC still selecting an LGM vendor
 - BRMCC expected to be ready for commissioning in mid 2023
 - PEMCC expected to be ready for commissioning in late 2023
 - AUMCC commissioning in progress ELT(DT) / SGB capability
 - JAMCC commissioning to be scheduled



★ LGM Commissioned as of Sept 2021



MEOLUT Moving Beacons

- The Florida MEOLUT is capable of handling slow moving beacons as of 25 March 2022
- The Hawaii MEOLUT moving beacon testing completed April 2023 - report development underway for presentation to EWG in 2023.
- SUSA MEOLUT moving beacons and IOC commissioning scheduled for late summer 2023.



Moving Beacons follow testing

- NOAA is developing internal moving beacon testing capability
- Two individuals currently FAA Part 107 Certified
 - OMAO MC and sUAS PIC certified in April 2023
 - Received GE M-600 quadcopter
 - Currently procuring more capable platform





SGB Status

- The Florida and Hawaii MEOLUTs are capable of detecting Second Generation Beacons (SGBs), making SGB solutions, and sending those SGB solutions to the USMCC
- The USMCC is not yet using or distributing SGB alert data operationally



QUESTIONS?

Mr. Allan Knox
Allan.Knox@noaa.gov