



# MEOSAR Update and Plans for Initial Operational Capability (IOC)

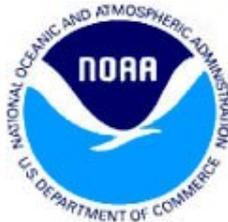
Beacon Manufacturers Workshop

2020

Beth Creamer

ERT, Inc.

USMCC Chief

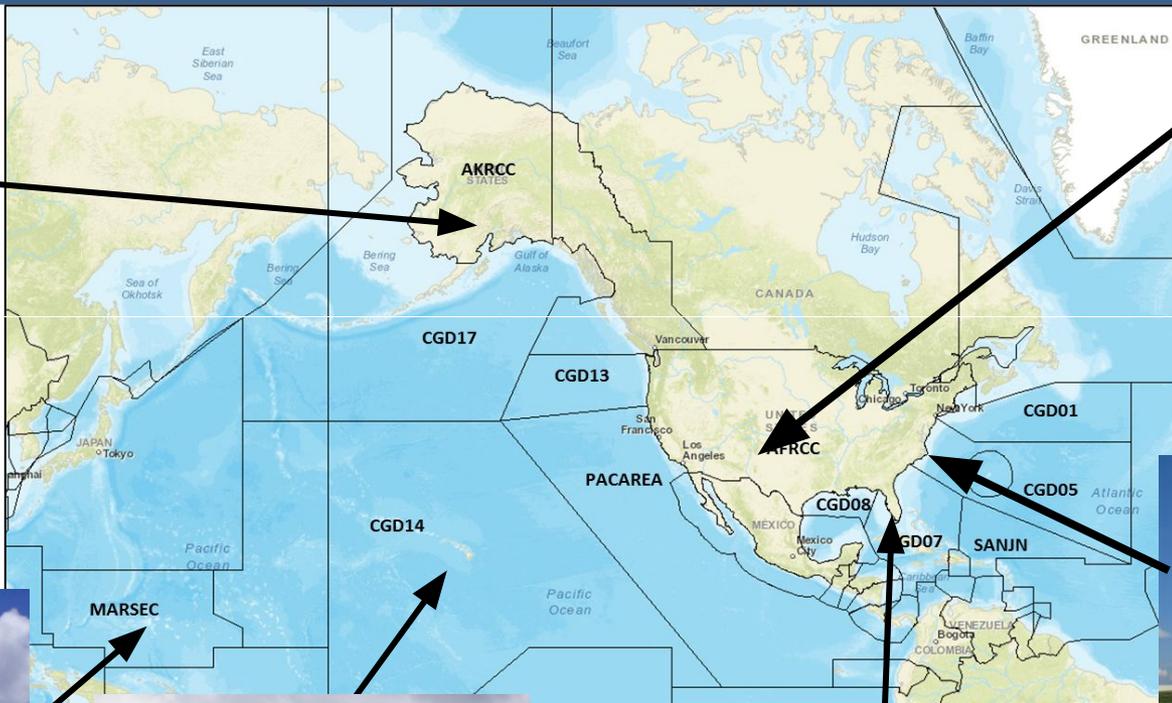




# US SARSAT Ground Segment



**Alaska**  
NOAA Fairbanks, Alaska  
Command and Data  
Acquisition Station (FCDA)  
2 LEOLUTs replaced by  
2 LEO/MEOLUTs late 2020



**New Mexico**  
SUSA MEOLUT  
2 phased array's  
under development



**Guam**  
Andersen AFB  
2 LEOLUTs replaced by  
2 LEO/MEOLUTs in 2021



**Hawaii**  
2 LEOLUTs replaced by  
2 LEO/MEOLUTs in 2019  
&  
6 antenna MEOLUT



**Miami**  
2 LEOLUTs replaced by  
2 LEO/MEOLUTs in 2019  
&  
6 antenna MEOLUT



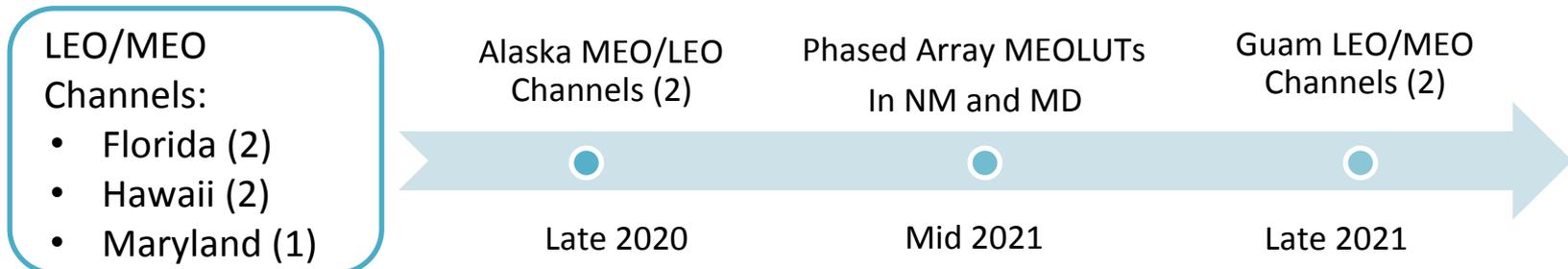
**Maryland**  
US Mission Control Center  
Maryland has 2 GEOLUTs & 1  
test GEOLUT  
&  
1 Test LEOLUT  
1 Test LEO/MEOLUT  
1 planned Test Phased Array



# USA LEO/MEOLUT Plans

- Hybrid LEO/MEO LUTs
  - 4 more LEO/MEO planned (Alaska and Guam)
    - The 4<sup>th</sup> Generation LEOLUTs track MEOSAR when no LEOSAR satellites are in view.
    - The MEO data provided will be used as additional channels to existing MEOLUTs.
    - Alaska, Guam will feed MEO data to HI MEOLUT
  - LEO/MEOLUTs will bridge the transition from LEOSAR to MEOSAR
- MEOLUT
  - New Mexico - Phased-Array MEOLUT planned (SUSA)
  - Maryland - Test Phased-Array MEOLUT planned (L-band only)(TPAM)

## Currently Operational:





# USA LGM MCC

## Commissioning schedule

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- Commissioned
  - 2018 AUMCC went operational July 2019
  - 2019 JAMCC went operational April 2020
- 2020 In progress
  - CHMCC (expect IOC Oct 2020)
  - CMCC
- 2021 Planned
  - ARMCC, BRMCC, PEMCC

# LGM Initial Operational Capability (IOC)

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Challenges from the US perspective:

Expected Horizontal Error (EHE)

Slow-moving beacon location accuracy

Suspect alerts

QMS requirements



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QUESTIONS?