



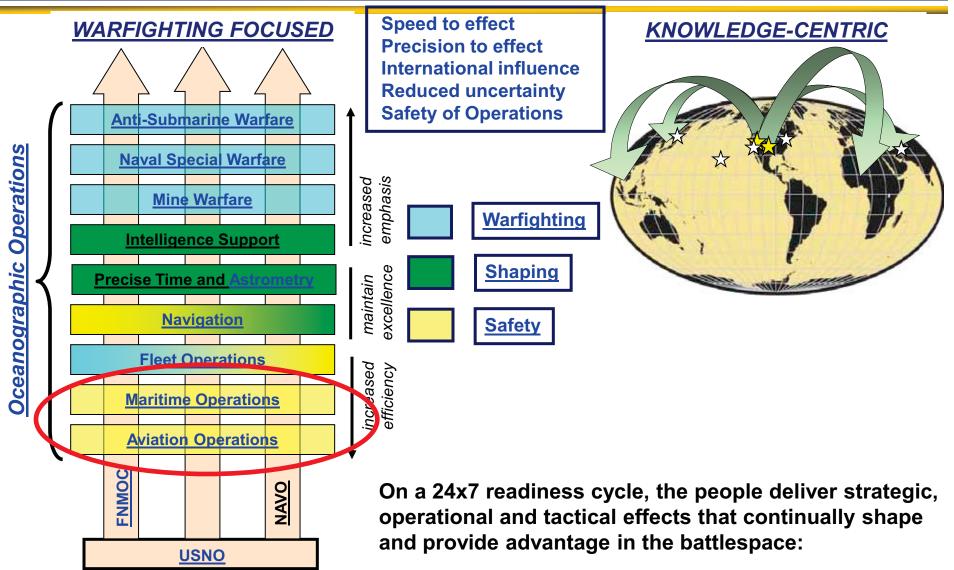
Naval Oceanography enterprise (NOe)

Protecting the Fleet from destructive weather and enhancing the warfighter through decision superiority

Multi-Function Phased Array Radar Symposium II Norman, OK CAPT Michael Angove, USN







Naval Oceanography



Leveraging MPAR Capability



Protecting the Fleet from Destructive Weather is the Naval Oceanography enterprise's (NOe) <u>Top Priority.</u> MPAR Could Enhance CONUS Resource Protection By:

- Faster Volumetric Scans
- Adaptive Sampling to focus on the severe weather
- Better Tornado and Hail Prediction
- Increasing Hazardous Weather Warnings Lead Times



\$150B of Ships, A/C and Shore Assets

Naval Oceanography





MPAR and the Way Ahead with NOe



- Use of the Commander Naval Installation Command (CNIC) Wide Area Alert Network (WAAN) for auto-push of location relevant National Weather Service (NWS) warnings.
- Dependent on the WSR-88D network for Installation/Airfield resource protection
- Communications with Storm Prediction Center/National Hurricane Center when conditions warrant
- Cover domestic "gaps" with organic capability (e.g., Fallon).
- Significant investment OCONUS (Yokosuka, Iwakuni, Diego Garcia, GITMO, Souda Bay, Rota, Sigonellla)
- Share Information and Technology Related To Weather Detection Using Phased Array Radars
 - HWDDC/TEP (Tim Maese): Leverage SPS-48E/SPY-1 air search radar to display weather information. Scheduled to be deployed all carriers, large deck amphibious ships (SPS-48) and projected for Aegis (SPY-1) capable platforms. NRL Monterey linkage: NWP.
 - Leverage Open Arcitechture (Robert Sexton—DDR&E) and frequency deconfliction (Richard Soares—NSWC) work (outside NOe)
- Continue Participation in MPAR WG.
 - Maintain an active role/SA in the MPAR WG
 - Naval Oceanography



MPAR Risk Reduction



- Minimize Mission Creep
 - Requirements Vetted and Finalized
 - "Perfect" enemy of "good enough"
- Agencies tailor R&D towards requirements
- Leverage Navy Lessons Learned from HWDDC
- Utilize COTS/GOTS Solutions
- Determine Cost/Benefits and Agency "stakes"
 - "If you're not talking about money you're not having a conversation" (CAPT Jim Etro, 1995)



Naval Oceanography









Back-up

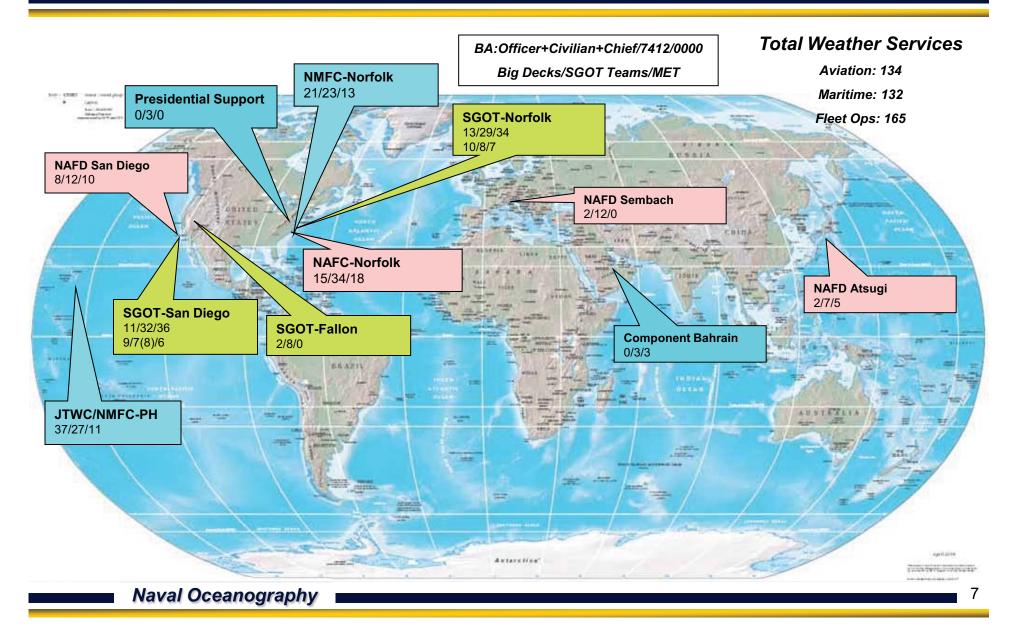






Weather Services Laydown

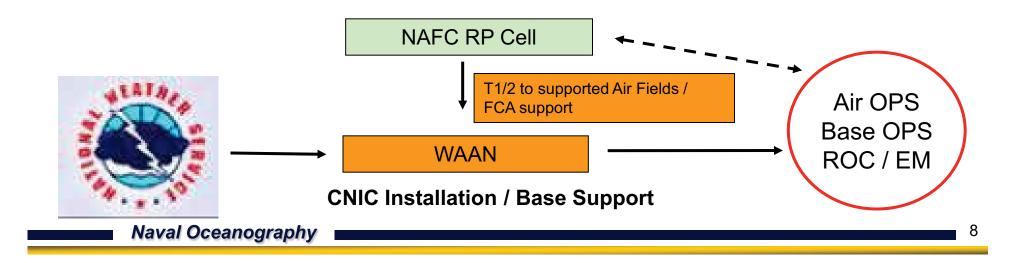








- Enterprise Endorsement (CNIC)
 - CNIC N3 and EM
 - CNIC Semi-Annual Emergency Managers Meeting
- OPNAVINST 3140.24 TS COR vice warnings, support use of NWS
- New CNIC 3140.24
 - Institutionalize a Standard Service Delivery (WAAN and Comms)
 - Explicitly lays out CONUS use of NWS and WAAN
 - Annex to address JB
 - NAFC RP cell provides T1/T2 for Naval Air Stations



MPAR Symposium / Implementation Strategy

