



ANTX Purpose & Success Stories

Betty C. Jester Naval Meteorology and Oceanography Command Chief Technology Officer

Naval Oceanography

Data to Decisions → Predict and Win _ 1



Background



2016 – Naval Oceanography attends ANTX 2016

2017 – Naval Oceanography executes Operational Demonstration

2018 – Naval Oceanography partners with the warfare centers and executes ANTX18 with the theme of "Human Machine Interaction"

2019 – Naval Oceanography and warfare centers execute ANTX18 with the theme of "Prepare for Battle: Undersea Security"

2020/2022 – ANTX20 executed with the theme of "Smart Ocean" in partnership with NAVSEA, NOAA, Industry Partners and Academia.

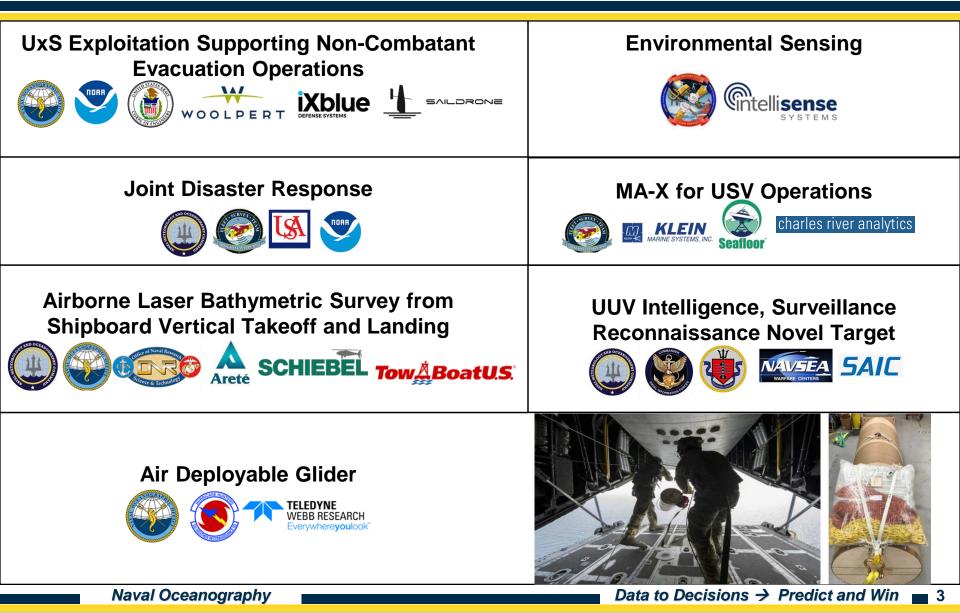




ANTX - Smart Ocean Theme

Naval Oceanography Vignettes







ANTX 2018-20 Success Story Hydrography / Bathymetry



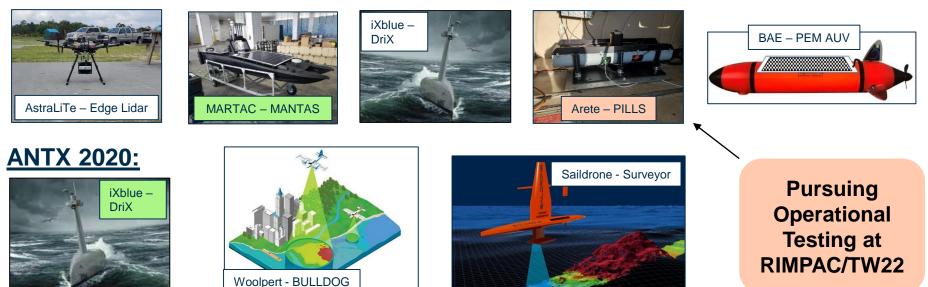
ANTX 2018:



ANTX 2019:







Naval Oceanography



Objective:

- Evaluate tech at the research and development or commercial level before the technologies become militarized and integrated at the operational level
- ANTX 2018
 - Goal: "Incorporate UxS and "autonomy" where and when it makes sense."
 - \circ L3 ASV C-Worker 5
 - QPS Qinsy, Qimera
 - Leidos Optionally Manned Survey Launch
- ANTX 2019
 - Goal: "Assess the battlespace using a multi-domain UxS complement, remotely offload sensed data for rapid exploitation, and extend the UxS mission profile using renewable energy sources."
 - AstraLiTe Edge Lidar
 - Arete Associates Pushbroom Imaging Lidar for Littoral Surveillance (PILLS)
 - iXblue Defense Systems DriX
 - MARTAC MANTAS T-12 ENV
 - BAE Systems Persistent Environmental Monitoring AUV
- ANTX 2020 Underway
 - Goal: "Project technology to a real-world military survey operations scenario."
 - Woolpert Bathymetric Unmanned Littoral LiDAR for Operational GEOINT (BULLDOG)
 - iXblue Defense Systems DriX
 - Saildrone Saildrone Surveyor (SDS)

Naval Oceanography











The Future...



Gulf Coast NavalX TechBridge (GCTB)

- Launched by Sec. Geurts in Dec 2020
- Collaboration between CNMOC, NSWC PCD and NRL-South
- Spans from Tallahassee, FL to New Orleans, LA
- Director: Holly Gardner (NSWC PCD);
- Deputy Director: Joseph Calantoni (NRL-South)
- Thrust Areas:
 - Coastal Sciences and Technology
 - Assured Maritime Access
 - Operational Meteorology and Oceanography
- Future ANTX-type initiatives will align with GCTB goals & thrust areas

CENOTE

- Commercial Engagement Through Ocean Technology; NOAA-Navy collaboration wrt UxS
- MOA exists between NOAA & Navy
- NOAA establishing Unmanned Operations Center in Gulfport, MS
- NOAA enduring partner on ANTX-type demonstrations and tests





Naval Oceanography



Questions?





Naval Oceanography

Data to Decisions → Predict and Win _ 7