



# NOAA

## RVTEC 2016

# NOAA Agency Report

Donald E Jones, OMAO



*U.S. Department of Commerce  
National Oceanic and Atmospheric Administration  
Office of Marine and Aviation Operations*





# NOAA

## NOAA Agency Report

- Ship and Aircraft Fleet
- Unmanned Systems
- Cybersecurity
- Data Management



*U.S. Department of Commerce  
National Oceanic and Atmospheric Administration  
Office of Marine and Aviation Operations*





# NOAA

## Ships and Aircraft

- Aircraft Operations Center Relocation
- P3 Aircraft Re-winging
- Aging Ship Fleet / New Construction ??
- Fleet Recapitalization Plan
  - RONALD H BROWN Mid-Life (Initial Plan, UW)
  - End-of-Service-Life Assessments (ABS)
  - THOMAS JEFFERSON Service Life Extension work

*U.S. Department of Commerce  
National Oceanic and Atmospheric Administration  
Office of Marine and Aviation Operations*





# NOAA

## Unmanned Systems

### •UxS Vision

- “... utilize proven unmanned technologies to enhance mission effectiveness, improve operational efficiency, and affordably close observation gaps.”
- “... employ a “harvest and tailor” strategy ... adapt UxS platform types for NOAA-unique missions.”
- “... manage a limited stable of platform types ... focus on sensor development and integration of those platforms into fleet.”



*U.S. Department of Commerce  
National Oceanic and Atmospheric Administration  
Office of Marine and Aviation Operations*





# NOAA

## Unmanned Systems

- UxS Activities
  - UxS Steering Committee formed
  - OMAO transition to operations approach for UxS with targeted initiatives:
    - ASV for hydro survey operations
      - Z-Boat proof-of-concept from TJ
    - Small UAS for living marine resource surveys
    - Forecasts & Warnings augmented by UxS
  - NOAA UxS Program office established
    - AOC Tenant

*U.S. Department of Commerce  
National Oceanic and Atmospheric Administration  
Office of Marine and Aviation Operations*





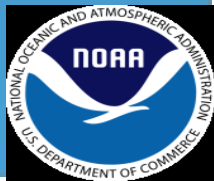
# NOAA

## Cybersecurity

- Sensor / Controller Upgrades (Win7 or Linux)
  - Working with manufacturers to ID upgrades
  - Upgrade plan developed / Working on funding
- SCADA
  - Working with DHS / USCG to ID vulnerabilities and develop mitigation strategies
- Shipboard Networks and IT Infrastructure



*U.S. Department of Commerce  
National Oceanic and Atmospheric Administration  
Office of Marine and Aviation Operations*





# NOAA

## Data Management

- Implemented NIST-Traceable calibration on all sensors (Met/Atmospheric as well as Oceo)
- Data Management initiatives:
  - FSU SAMOS
  - University of Hawaii ADCP (UHDAS)
- SCS Version 5 – (John Katebini)
  - Development Progress
  - Potential Release Date



*U.S. Department of Commerce  
National Oceanic and Atmospheric Administration  
Office of Marine and Aviation Operations*





# NOAA

## QUESTIONS ???



*U.S. Department of Commerce  
National Oceanic and Atmospheric Administration  
Office of Marine and Aviation Operations*

