

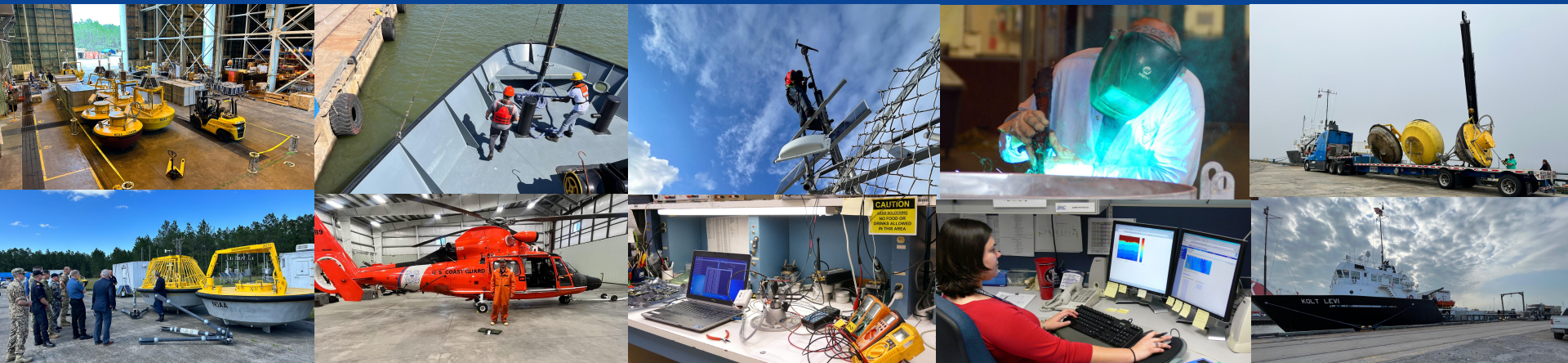


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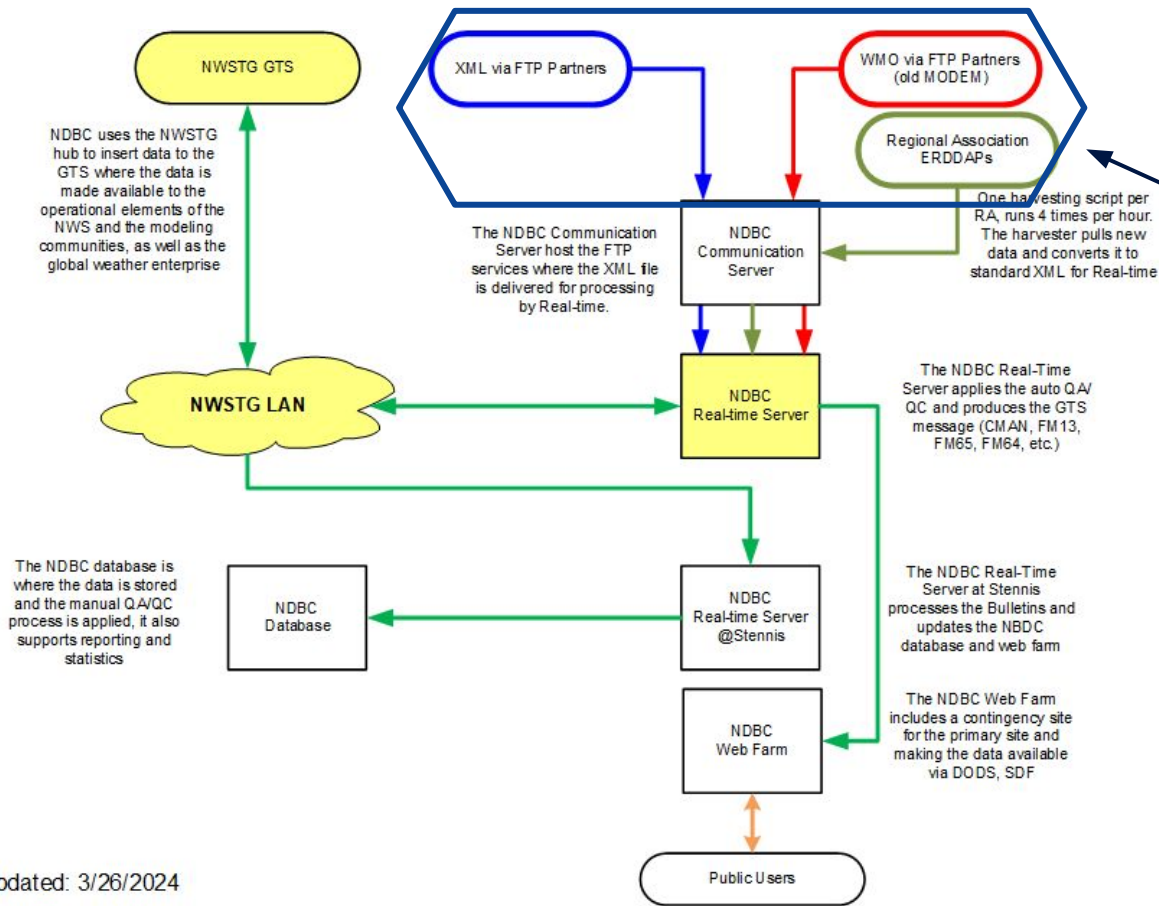
# NDBC Update: IOOS DMAC Meeting

April 30, 2025

Presenters: Dawn Petraitis, Physical Scientist and  
Stephanie Ray, Chief Scientist



# How does data flow from IOOS to NDBC?



Transitioning IOOS buoy/coastal station data from FTP to ERDDAP

Updated: 3/26/2024



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# IOOS RA Data Path Transition Status

## RAs Complete

- SECOORA
- GCOOS
- CeNCOOS
- NANOOS
- PacIOOS

## RAs In Progress

- GLOS
- NERACOOS

## RAs To Do

- CARICOOS
- SCCOOS

Note: AOOS and MARACOOS do not have any stations sent to NDBC.

NDBC goal of migrating off FTP by 7/31/2025.



# NDBC Auto QC Handbook Updates

## Motivation

- Last updated in 2009
  - Primarily focused on Coastal Weather Buoys and C-MAN
    - Lacked critical information for TAO and DART
    - Did not mention more recent payloads such as AMPS or SCOOP
  - Contained outdated information
- Verification of our processes
- Useability by external stakeholders



# NDBC Auto QC Handbook Updates

## Updates

- Major updates in new version
  - Reorganized and reworded document for clarity
    - Removed internal nomenclature
  - Added DART and TAO
  - Fully documented existing QC algorithms
    - Removed QC algorithms no longer in use
  - Added updated data flow diagrams and derived observation diagrams
  - Added tables for sampling schemes and accuracy specs



# NDBC Auto QC Handbook Updates

## [NDBC Handbook of Automated Data Quality Control 2023 \(PDF\)](#)

NDBC Technical Document T80-10



## **Handbook of Automated Data Quality Control Checks and Procedures**

National Data Buoy Center  
Stennis Space Center, Mississippi 39529-6000  
December 2023



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# Current and Future Work

- HF Radar transition
  - NDBC will expand data availability to 90 days on THREDDS
  - Expect work to be complete by July
- Developing plan to update NDBC's automated QC system
  - Updates include but not limited to:
    - New QC ranges
    - New QC algorithms informed by QARTOD



# Thank you!



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