

Open Access to the GTS

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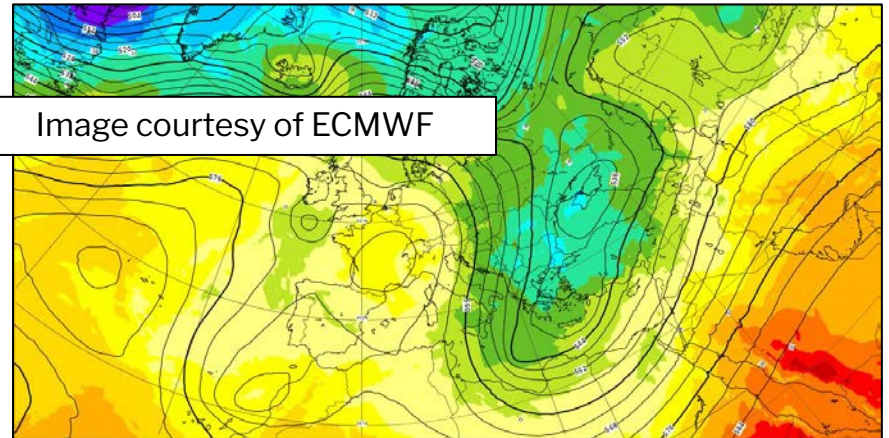
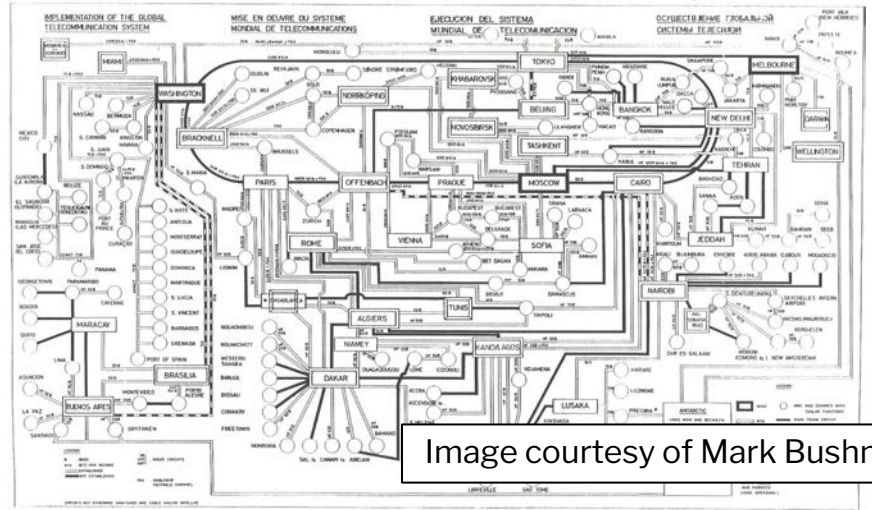
³NOAA/National Data Buoy Center

Project Overview

What is the GTS?

"The co-ordinated global system of telecommunication facilities and arrangements for the rapid collection, exchange and distribution of observations and processed information within the framework of the World Weather Watch."

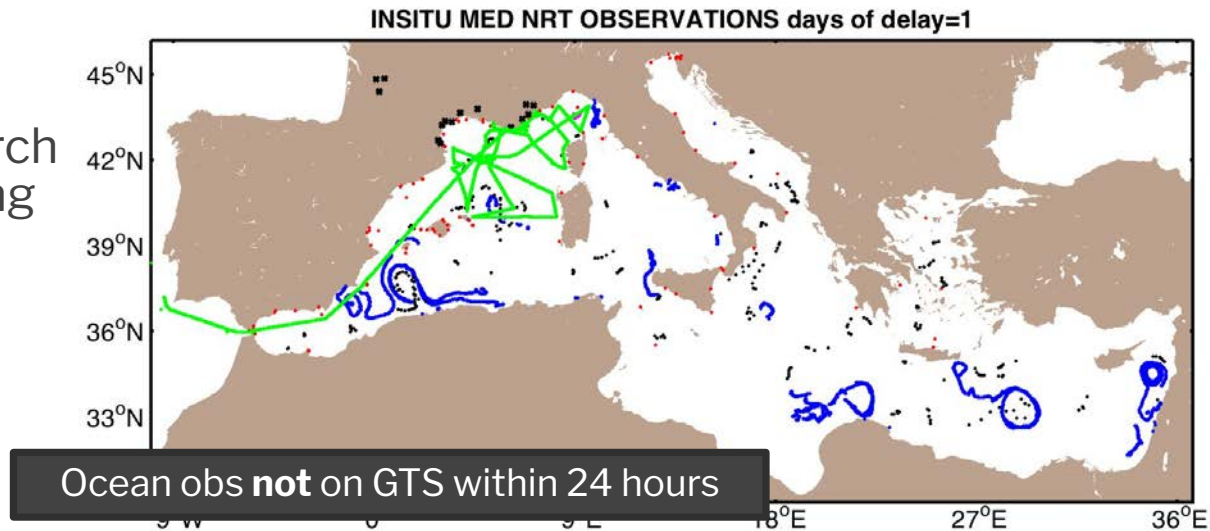
- WMO



Project Overview

PROBLEM

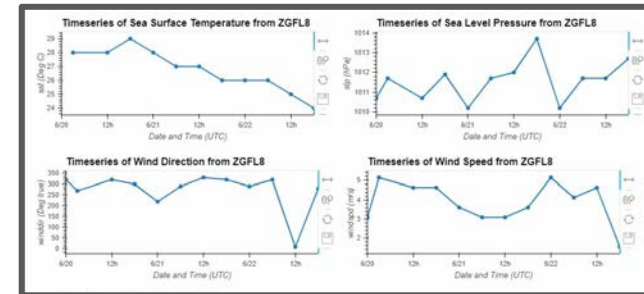
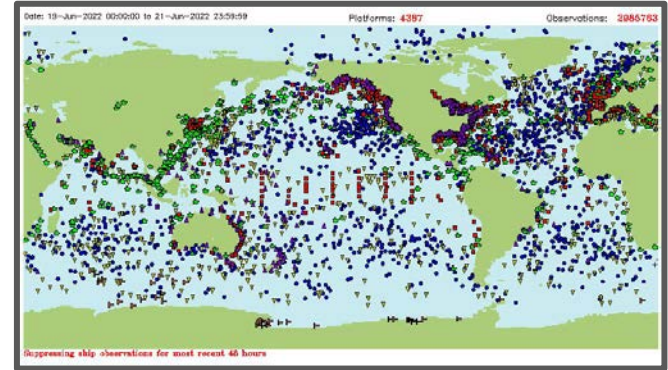
- Ocean data from research operators are not getting onto GTS, into forecast models
- Lack of widespread access to GTS data streams



Open Access to GTS (Open-GTS) was developed to improve data exchange in near real-time

GOMO Link

- GOMO has supported the development of the Open-GTS project through the Observing System Monitoring (OSMC)
- Initially supported what is now referred to as an Open-GTS access node
 - Ocean observations from GTS were made available through an OSMC console, and now through ERDDAP data services
- Open-GTS ingest activity developed through GOOS Observations Coordination Group (OCG) work

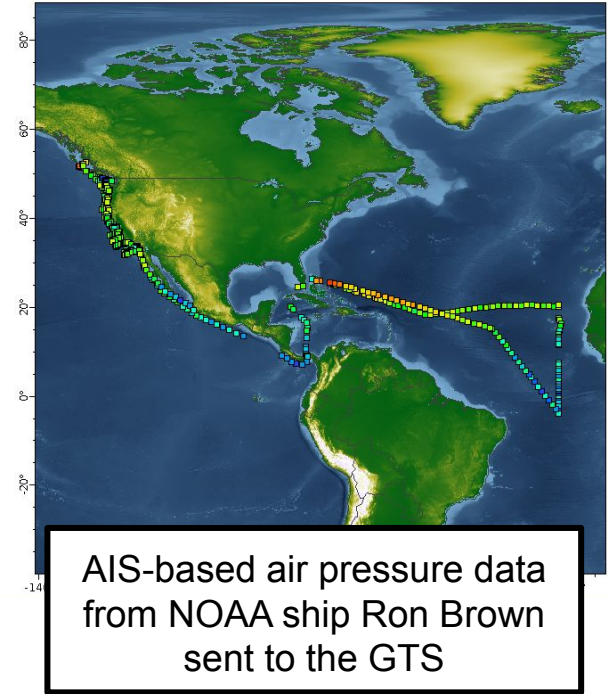


Achievements and Impacts

- Open-GTS ingestion pilot project **proved** it could **help data providers** exchange their data global on GTS
 - This also served to illustrate to the WMO community the difficulties of data exchange on the GTS
- Open-GTS was selected as a **demonstrator project** for the WMO **WIS 2.0** effort
 - WIS 2.0 is the evolution of the WIS designed to support more modern infrastructure and data formats
- Met data from **Saildrone** is currently **distributed through Open-GTS**
 - Helped **develop** and adopt a **new WMO BUFR template** for Uncrewed Surface Vehicles
- Open-GTS has been selected as an **endorsed NOAA UN Ocean Decade project**
- Open-GTS access node through OSMC is **widely used by research, commercial and public stakeholders**

Future plans and opportunities

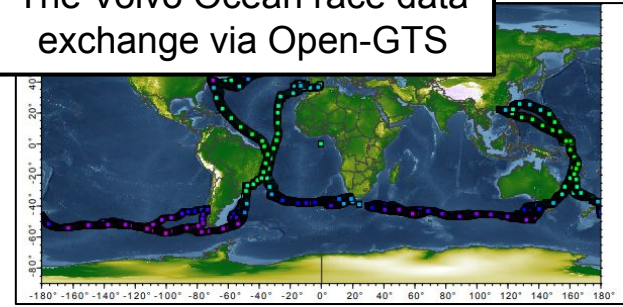
- Lots of opportunities for data collection and exchange from non-traditional sources
- Also piloting a project to exchange met data from ship-based AIS systems on the GTS
- Continue to advance WMO pilot to test exchange of data in near-real time with NetCDF files using Open-GTS services
- Identified as a partner with the World Ocean Database in the Cloud (WODc) project to provide most recent 3 months of near-real time in situ data for WODc users



Future plans and opportunities

- Funding of Open-GTS beyond pilot phase is not clear
- Provides an **excellent opportunity** for collaboration as cross-NOAA line office project between NWS and OAR
- As a (hopefully) UN Endorsed project/activity, hopefully funding opportunities will arise to scale up operations
- Open-GTS is capable of meeting both current and future needs as it supports both the current GTS (WIS), but also will be integrated with WIS 2.0
- Open-GTS can also play a role in developing capacity for data exchange in partnership with underserved communities.

The Volvo Ocean race data exchange via Open-GTS



Open Access to the GTS

Thank you!

