

HRST Drifters for Satellite SST Validation

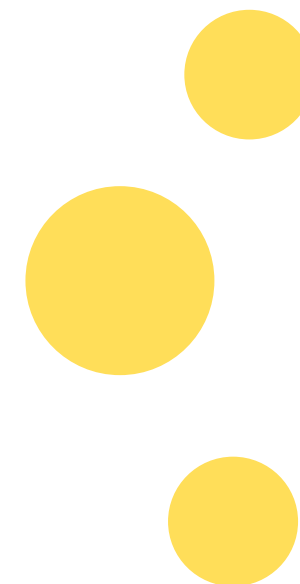
Chair: Gary Corlett

Co-chair:

Presenter: Gary Corlett

Current Members

- Anne O'Carroll, Igor Tomazic, Luca Centurioni, Verena Hormann, Gary Wick, Sandra Castro, Chris Merchant, Owen Embury, Jean-Francois Piolle, Stéphane Saux Picart, Shane Elipot, Peter Minnett, Haifeng Zhang



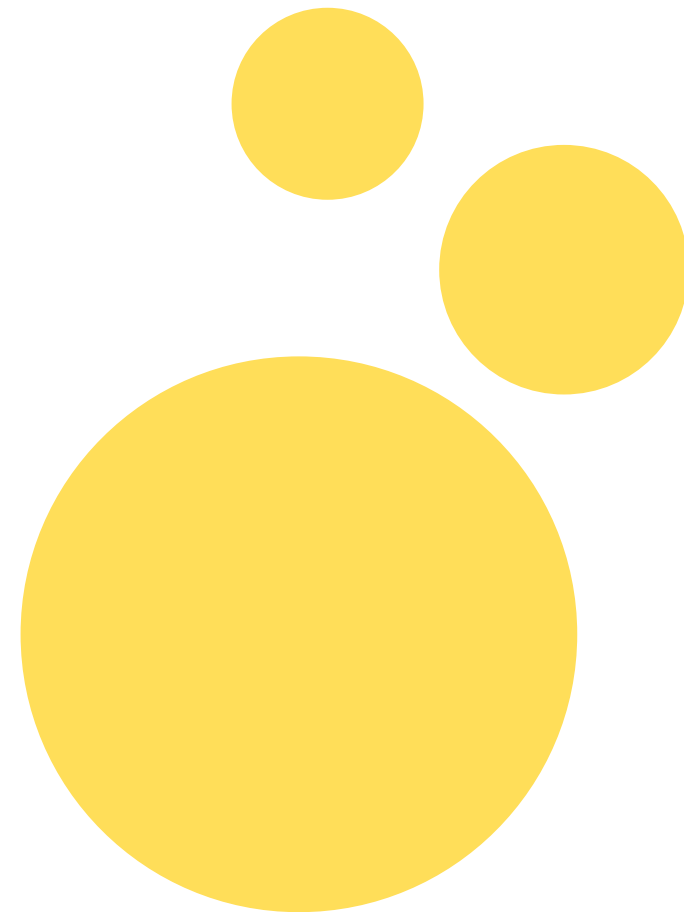
Purpose and Main Objective of the TT

- To coordinate HRSST drifter activities with the drifting buoy community
 - Current focus is on HRSST-2 drifters (not FRM)



Expected Closure of TT

- *GHRSSST 27*



Task Team Activities

What has been achieved and what is in the pipeline?

High Resolution SST Task Team: Activities

1. Perform initial assessment of current drifters and their compliance with HRSST
2. To propose an uncertainty model for the drifter network
3. To define a protocol for real-time quality control of drifting buoys for satellite SST validation
4. To revise the HRSST Specification
5. To propose an initial FRM specification for drifters

Task 1: Perform initial assessment of current drifters and their compliance with HRSST

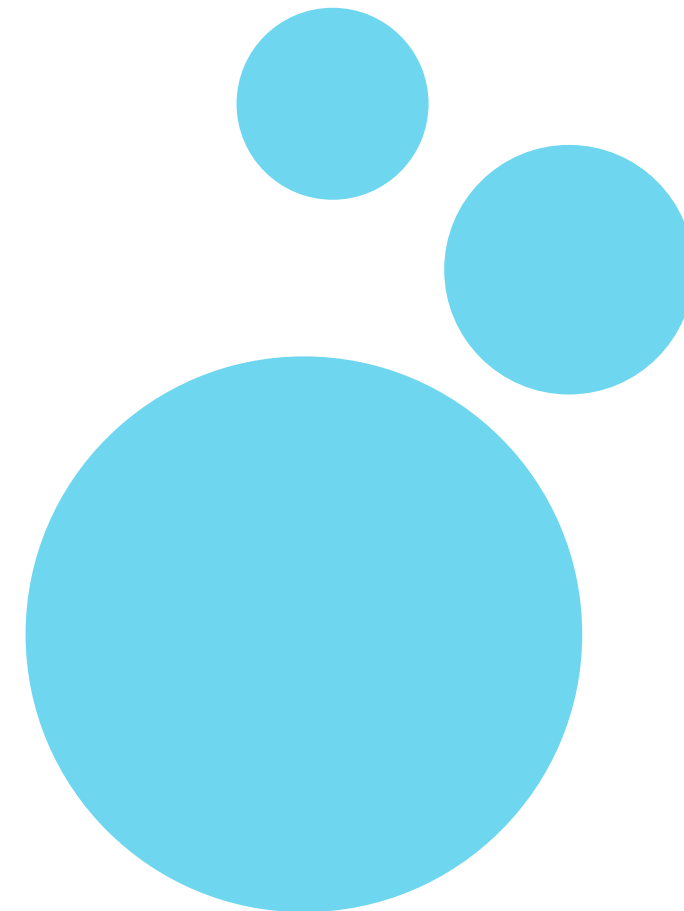
- Continued performance evaluation of HRSST2 drifters
 - Preliminary list of HRSST2 drifters defined in collaboration with GDP -> **Iridium and not DBi**
 - **This is simply because DBi calibration < 0.05 K has not yet been confirmed and does not imply any data quality issues with DBi drifters**
- Limited progress since GHRST 25 owing to other priorities

Task 1: Perform initial assessment of current drifters and their compliance with HRSST

- Activities planned for the next 12 months:
 - Completion of activity 1
- Expected Outputs and Results:
 - Finalise minimal drifter metadata specification for GHRST needs
 - Write journal article(s)

Challenges and Needs

- *The Task Team is run on a best efforts basis and is influenced by other priorities*



Additional points?

- *We expect a lower number of drifters to be deployed in future years owing to at least an estimated 10% funding cut at NOAA*
 - *Majority of drifters are provided by the NOAA Global Drifter Program (GDP) and coordinated by the WMO DBCP*
- *Reference data, such as drifting buoys, are essential for satellite SST validation and numerical weather prediction models*
 - *Please do what you can to encourage other national contributions to the array to maintain or even increase its current level*