



# Task Team Highlights 2024 – 2025

## Task Team Name: High Latitude Task Team

### Task Team Objectives:

- Exchange ideas related to High Latitude SST/IST
- Validate and improve SST/IST satellite retrievals at high latitudes
- Integrate and assess the consistency of SST/IST/SIC products (advise SST-only users on how to handle ice masking and SIC)
- Facilitate the use of existing in situ observations (including FRMs) and encourage the community to deploy new drifting buoys and other in situ observations

### Major Achievements from 2024 – 2025:

Task Team has been established. Terms of reference and Work Plan have been created in Teams/Onedrive along with presentations and minutes from HL TT meetings in this period.

#### Proposed activities have been organized under three (sub)Task Teams:

Task 1: Validate and improve HL SST

Task 2: Validate and improve IST, and develop IST definitions/specifications

Task 3: Improve the consistency between SST, IST and sea ice concentration products

### Next Steps for 2025 – 2026:

Task 1.1: Validate SST products in the high latitudes, using FRM and reference observations.

Task 1.2: Assess Diurnal warming in polar regions

Task 1.3 Improve cloud masking/QC

Task 2.1: Improve the understanding of IST

Task 2.2: Assess the performance of IST products

Task 2.3: Improve cloud Masking over ice



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Task 3.1 Improve the understanding of the MIZ temperatures

Task 3.2: Assess the relationship and consistency of the surface temperatures (UISST+SST+IST) and sea ice concentration (SIC) using satellite, in situ, and model data