

Data exchange

Linus Magnusson

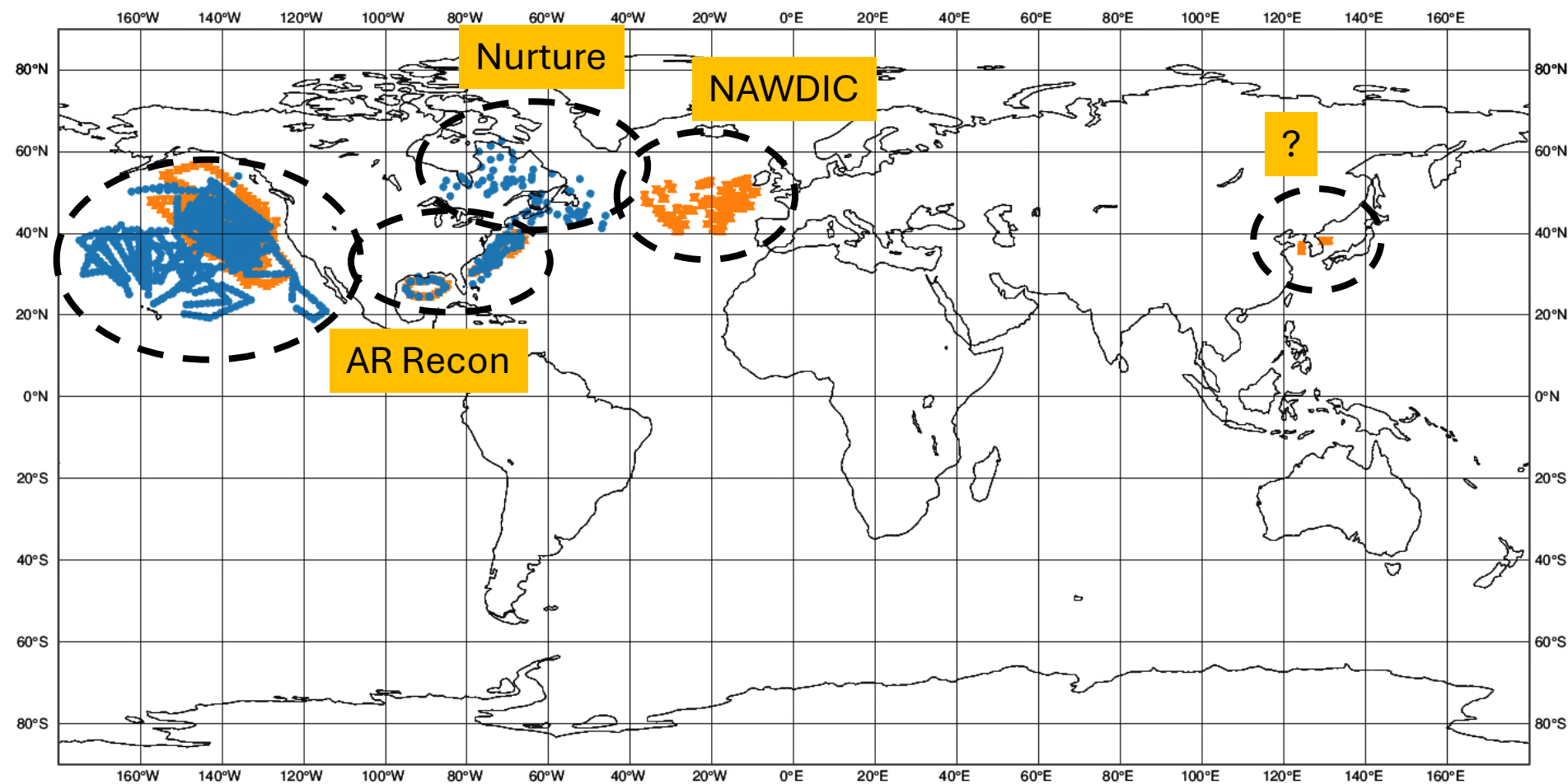
Evaluation Section

linus.magnusson@ecmwf.int



Campaigns in January-February 2026

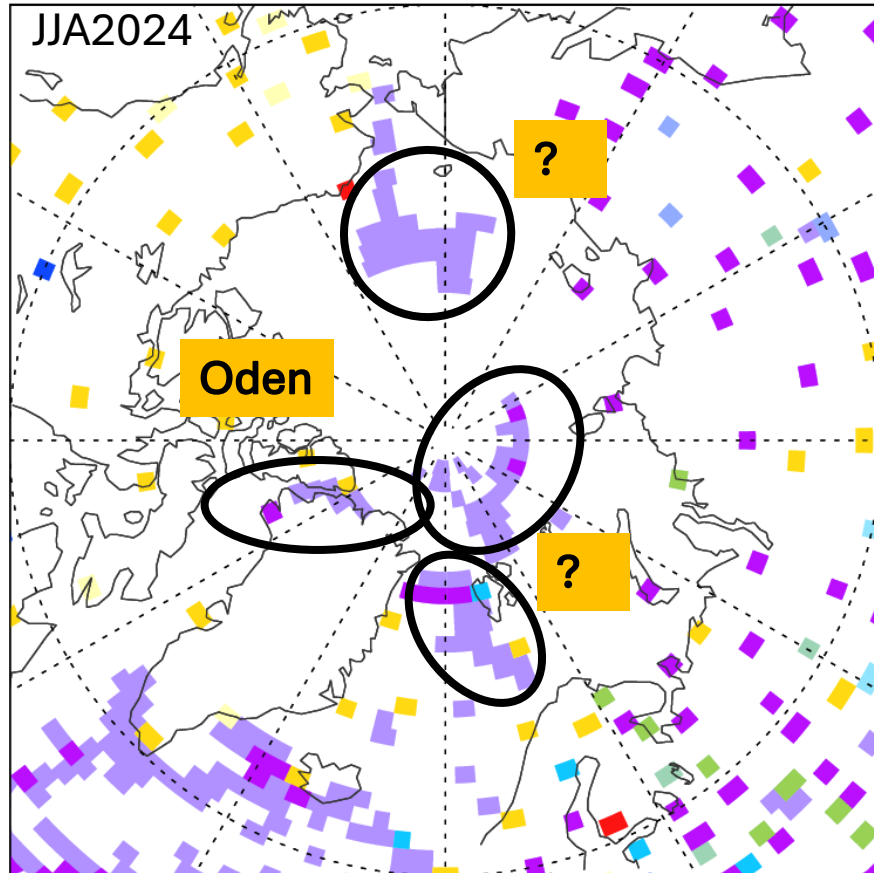
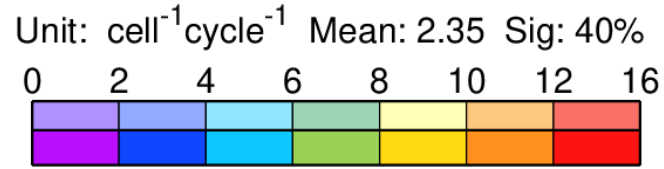
Dropsondes in ECMWF data assimilation January-February 2026



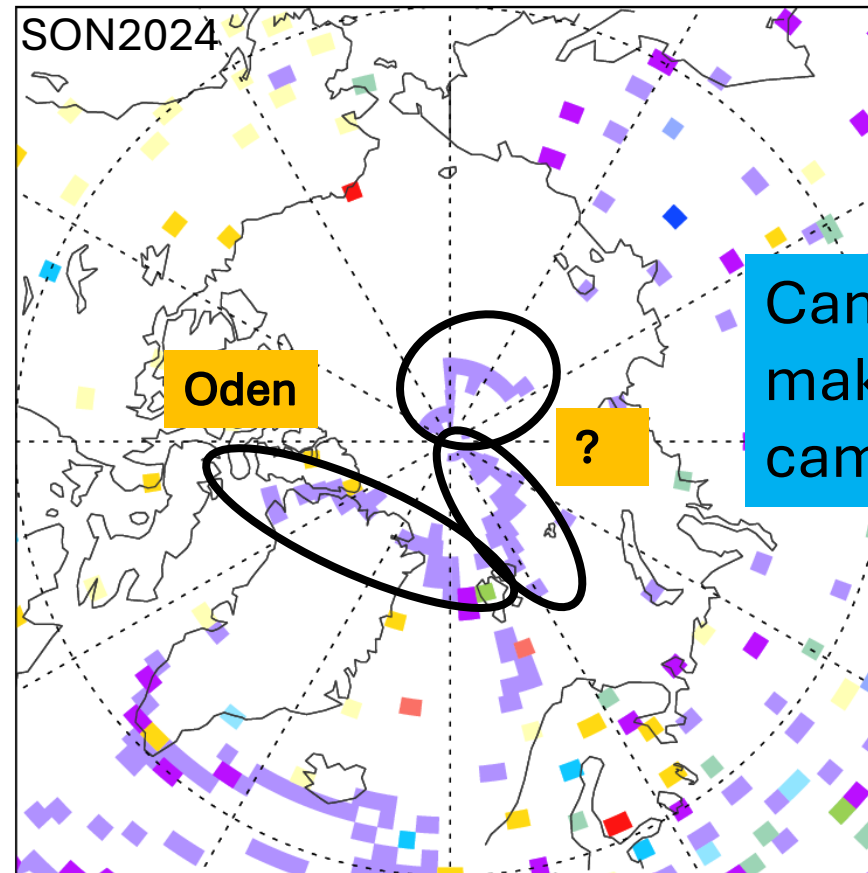
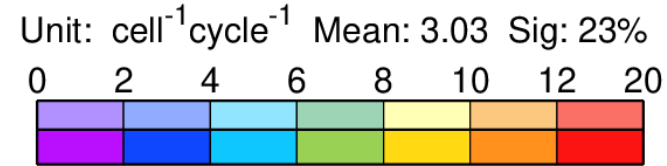
Thanks to Mohamed Dahoui

From the observation archive - Summer season 2024

Observation density (O80 nso, 12h)



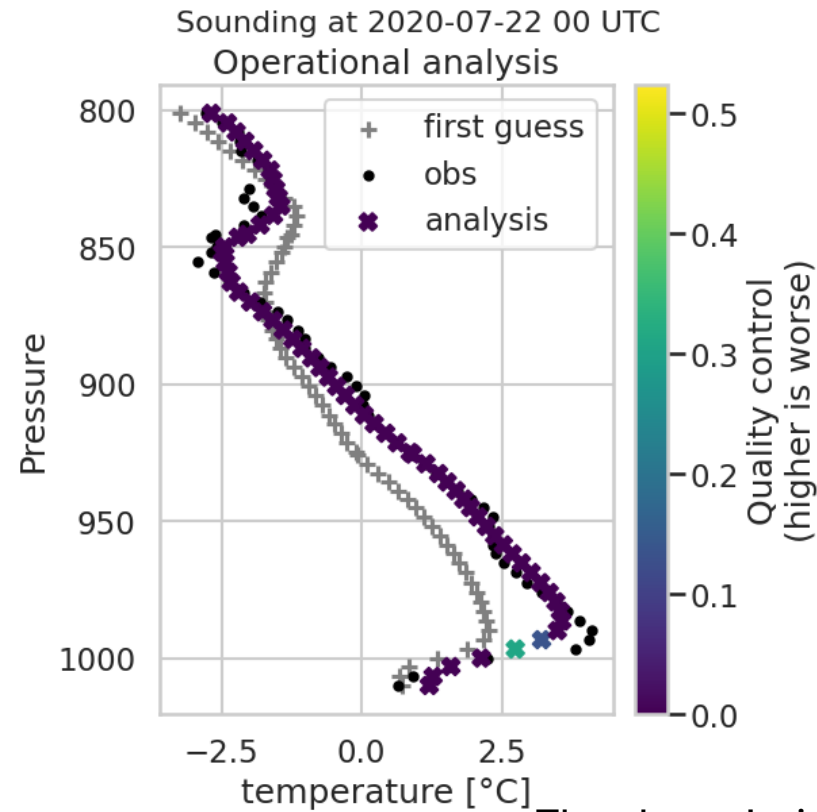
Observation density (O80 nso, 12h)



Can we (as community)
make a record of
campaign each season?

Data assimilation output from ECMWF

```
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Can this output help the evaluation after campaigns?

Thanks to Luise

Data exchange between campaigns and modelling centres

- How is data submitted from campaigns to data assimilation?
- How to exchange "non-GTS/WISS" observations from campaigns to model developers?
- How can modelling centres help before/during/after campaigns?
- How do we keep a record of past campaigns?



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Key questions during this workshop

- Have we managed to improve the forecast system based on past campaigns?
- How to get the best synergies between campaigns and forecast system development?
- What role will campaign data play in data-driven forecast models?
- What are the remaining gaps needed to be filled by campaigns?

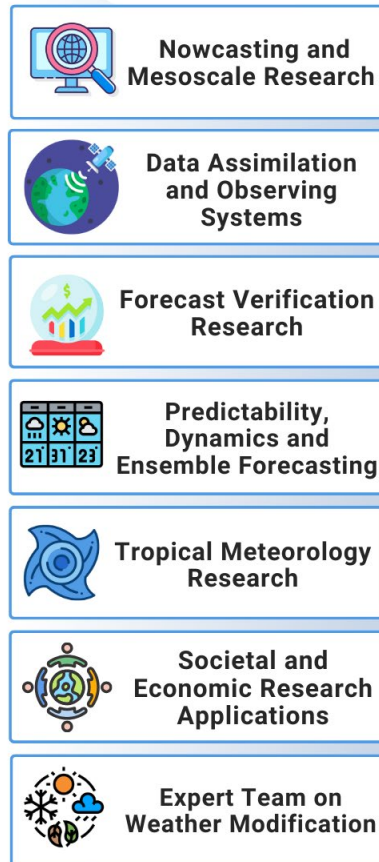
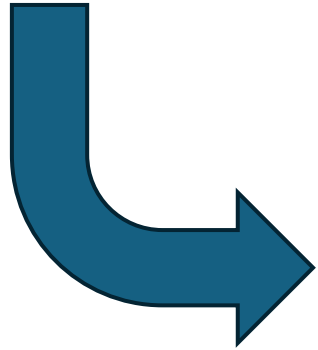
We will discuss:

- Past campaigns and programmes and future campaign opportunities
- Data exchange
- Observation impact in the data assimilation
- Interaction with model development
- Diagnostic studies and improved process understanding
- Role of campaign output in data-driven forecast models

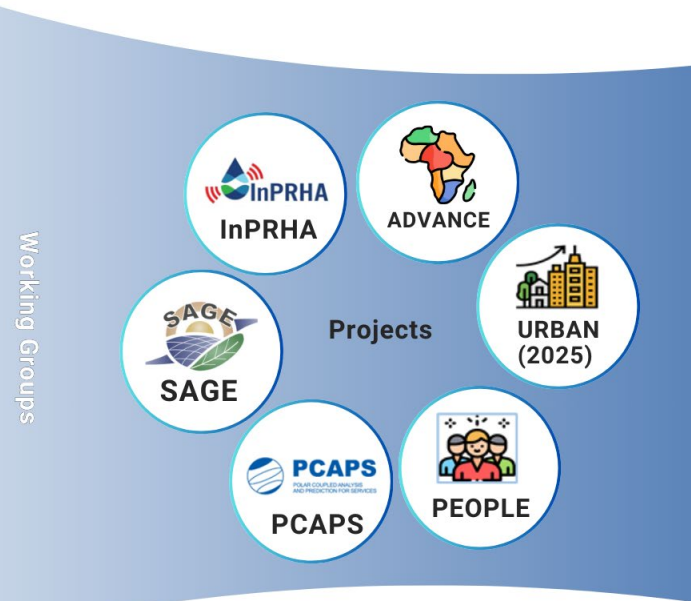
Activities in WMO World Weather Research Programme



2005-2014



Current WWRP activities



Endorsed projects in WWRP with campaign element:

[North Atlantic Waveguide, Dry Intrusion, and Downstream Impact Campaign \(NAWDIC\)](#)

[M3E - Mediterranean Extreme Events Experiment](#)

[Sea-Air Fluxes and Atmospheric River Initiation \(SAFARI\)](#)

[Canada-Sweden Arctic Ocean Expedition 2025](#)

[TEAMx \(Multi-scale transport and exchange processes in the atmosphere over mountains – programme and experiment\)](#)

[The North American Upstream Feature-Resolving and Tropopause Uncertainty Reconnaissance Experiment \(NURTURE\)](#)

[The Global Drifter Program](#)

[Atmospheric River Reconnaissance \(AR-Recon\)](#)

[Polar Night Experiment \(PONEX\) Aircraft Campaign](#)



Informal working group to discuss synergies between campaigns during winter 2026