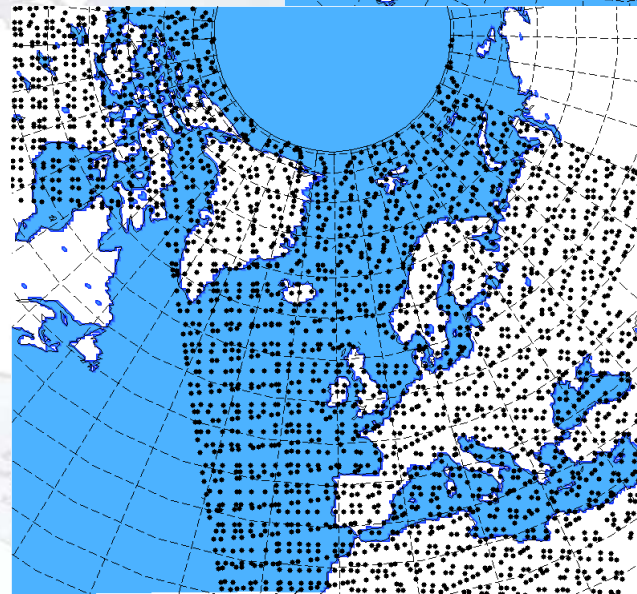
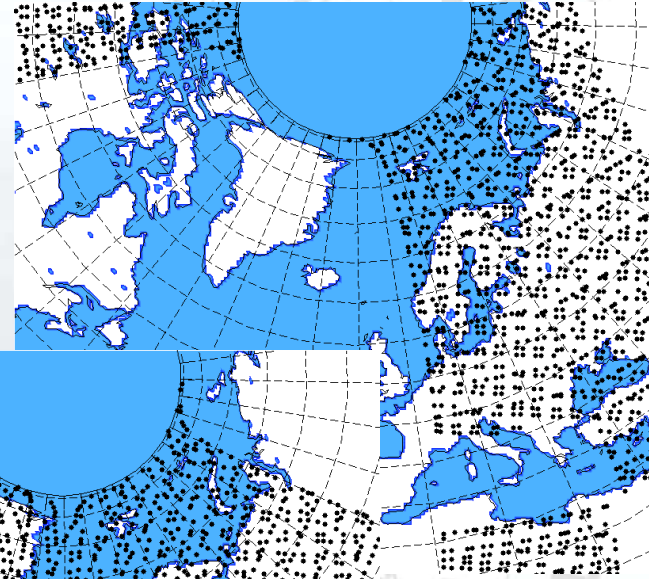


WP 2.2 - Humidity assimilation

- Visit the Met Office.
- Stand alone 1D-Var
- T-skin and emissivity in 1D-Var and 3D--Var.
- Bias correction scheme.
- New humidity variable.
- Emissivity, first guess.
- AMSU-B cloud mask.
- AMSU-B into HIRVDA.

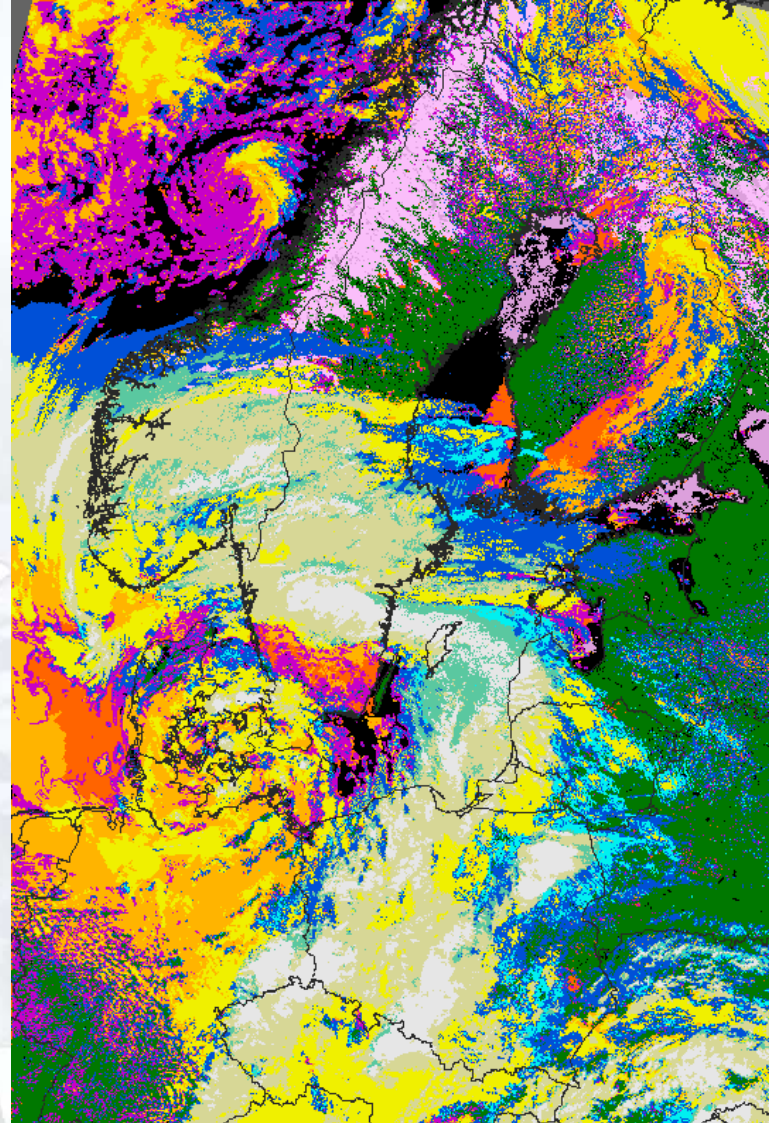
NOAA-16
00 UTC



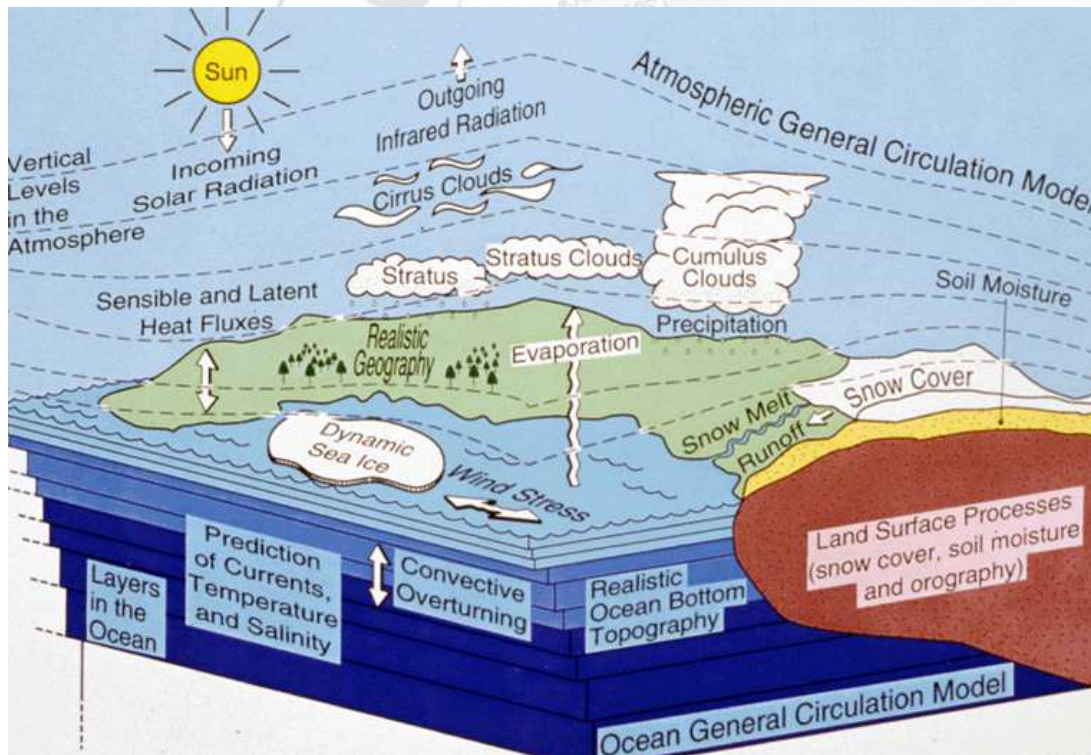
NOAA-16
12 UTC

WP 2.2 – Quality Control

- We have a clear picture of how to get AMSU-B over sea
- Neither MetOffice nor ECMWF use AMSU-B over ice though
- Our approach: put T_s and ϵ in the control vector and let VarQC decide what to accept
- This can be tested in the 1DVAR
- Before this can be done AMSU-B needs bias correction
- We need a cloud cleared sample to calculate the coefficients
- Get a cloud cleared sample by using NWC-SAF cloud mask



WP 2.2 - Surface heat flux



- HIRLAM snow scheme.
- HIRLAM ice scheme.
- Flux formulation for stable conditions.
- Flux implementaton.
- Validation of new flux and snow.
- Validation of new ice.