

Products update: recent co-developments and future plans

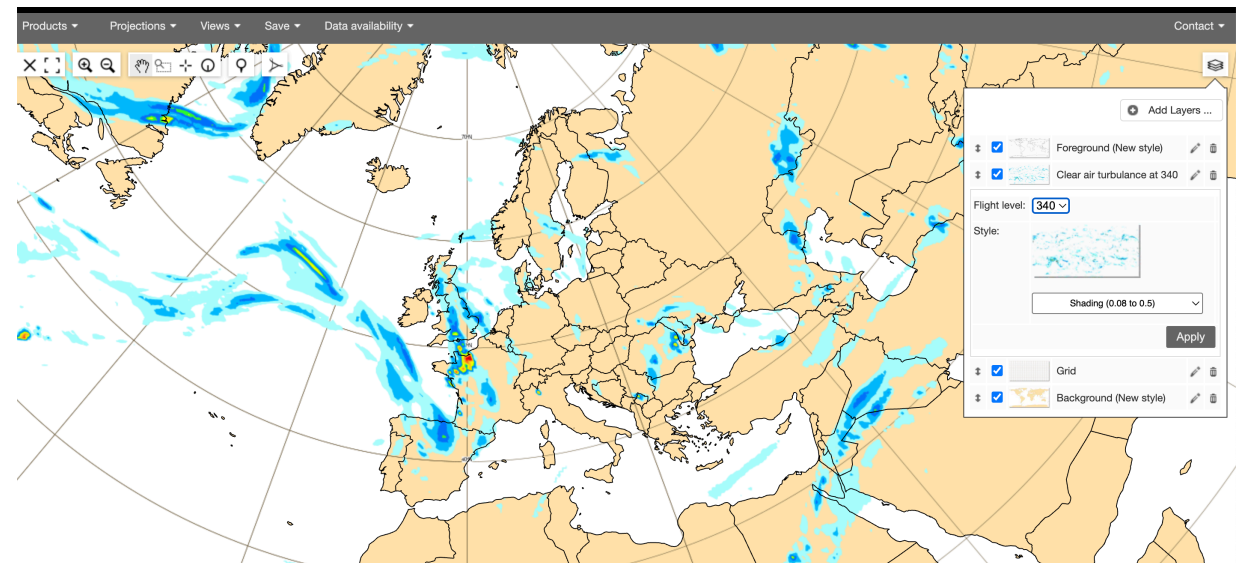
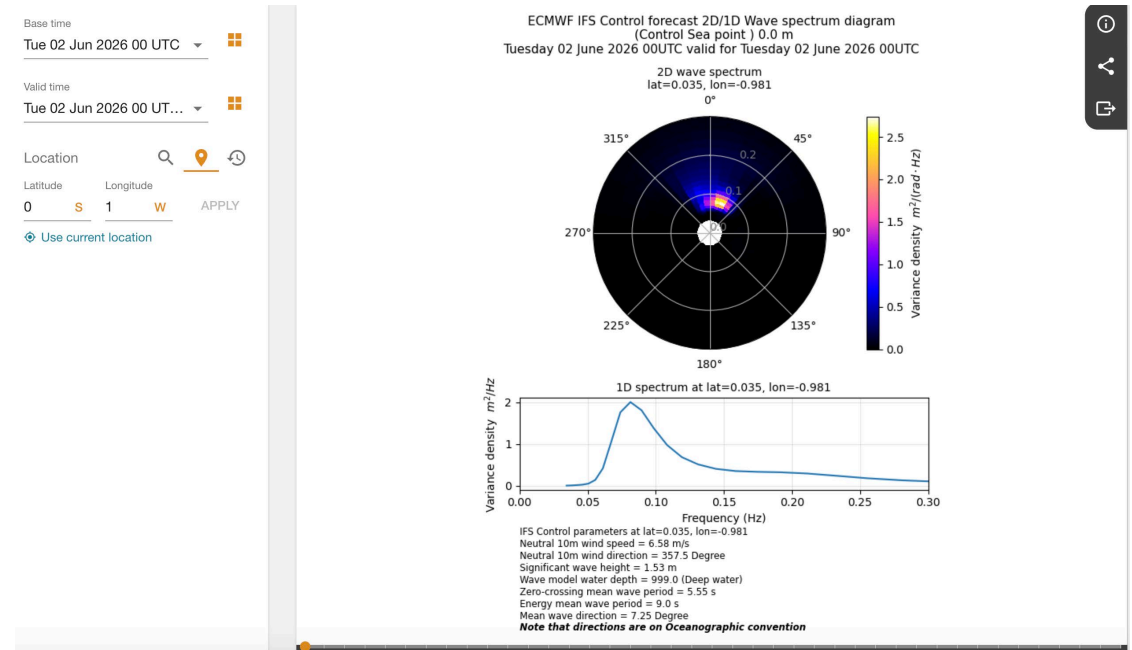
Cihan Sahin

Cihan.sahin@ecmwf.int

ECMWF recent updates

IFS;

- Post-processed products at 06/18 UTC runs (including Charts)
- Clear air turbulence at flight levels (with Austrian EuroControl)
 - 50 to 450K FT
 - Soon to be available in Dissemination
- Wave spectra diagrams (with MetNorway and IPMA)
 - Similar to Meteograms, available for each grid point 3 hrly up to day 5
- ecPoint (point rainfall) Additional accumulation intervals (6hr, 12hr, 24hr)
- SST anomalies with updated Climatology (1991-2010)



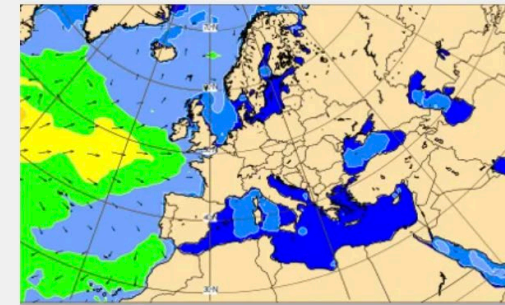
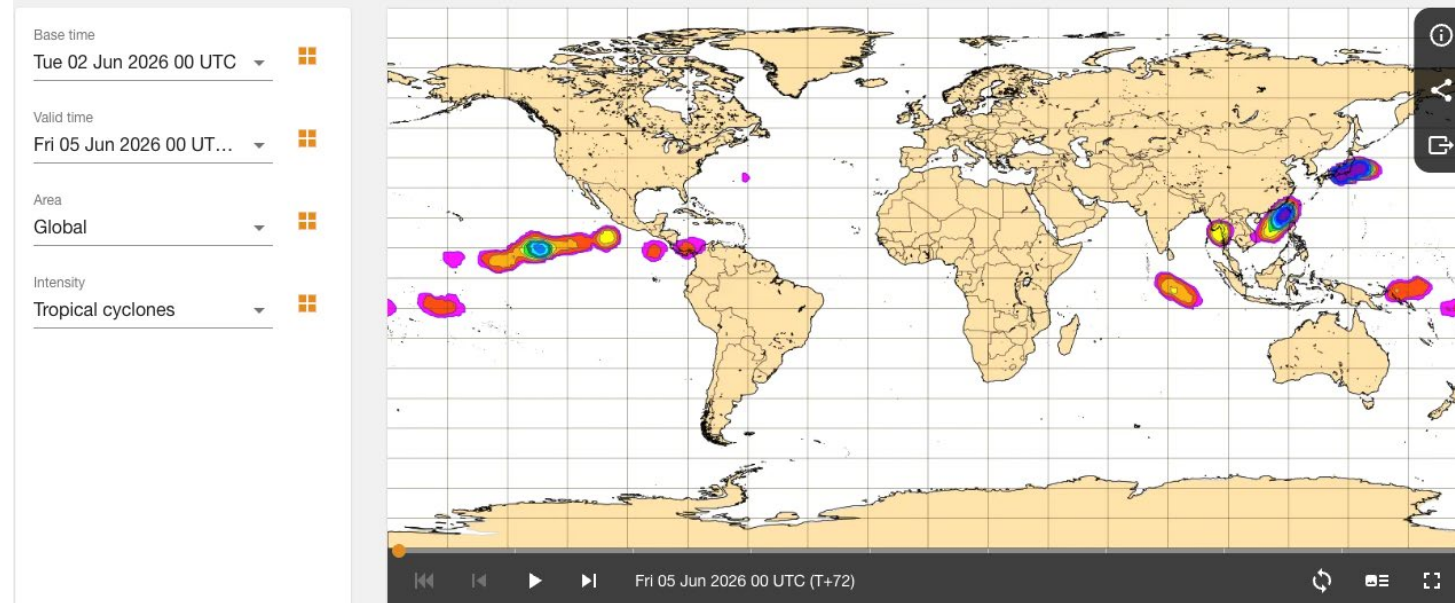
ECMWF recent updates

AIFS single & Control & ENS v2;

- New wave parameters
- Snow cover
- Tropical cyclone genesis

AIFS ENS: Tropical cyclone activity (Including genesis)

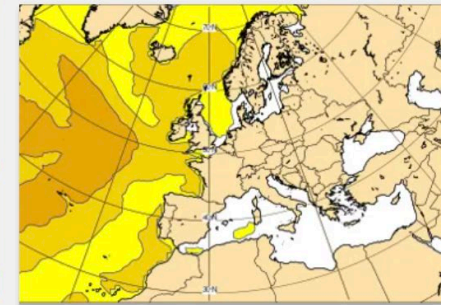
Tropical cyclone activity (including genesis)AIFS ENS



Latest forecast

AIFS ENS Control: Significant wave height and mean direction

At any location over the oceans, there is a spectrum of waves which describes how much wave energy is present for given frequencies and direction of propagation...



Latest forecast

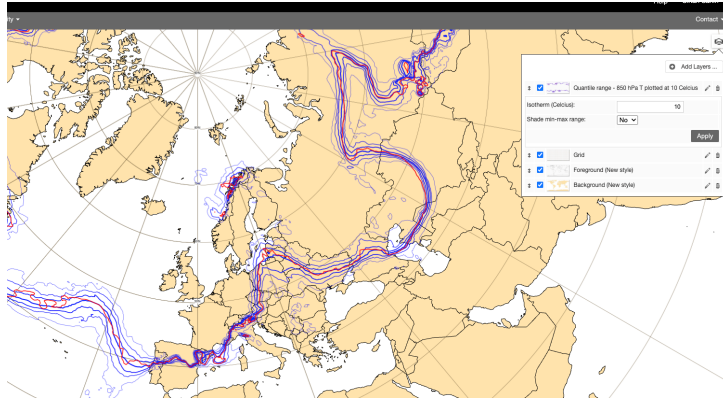
AIFS ENS Control: Significant wave height of all waves with various periods

Significant wave height can be shown to correspond to the average wave height of the top one-third highest waves. The wave period of windsea is generally <10s,...

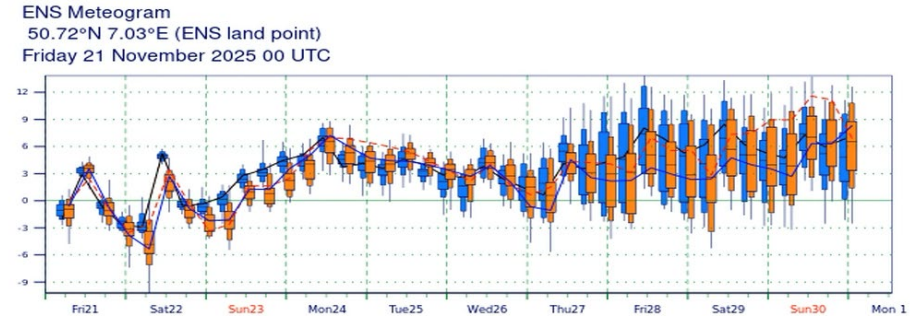
[github](#) [launch](#) [binder](#) [Open in Colab](#) [jupyter](#) [github](#) [launch](#) [binder](#)

ECMWF plans : Co-design and co-development

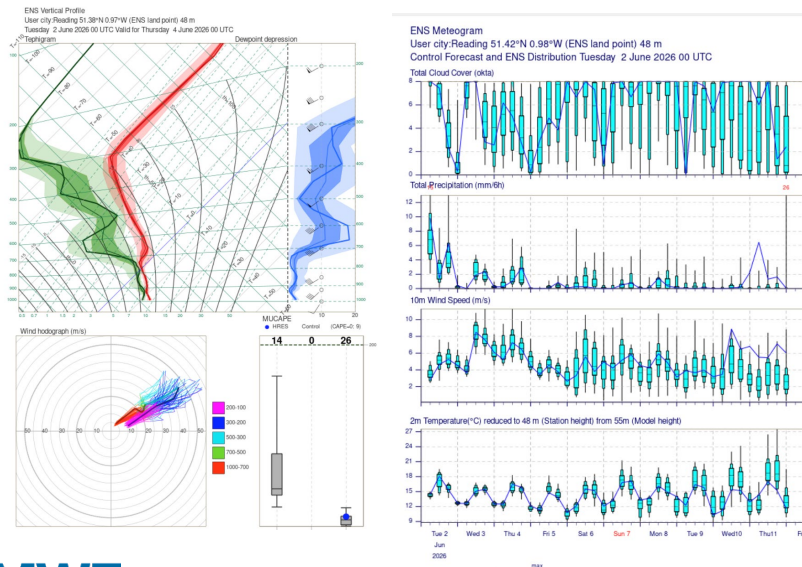
Ensemble percentiles for selected parameters ?



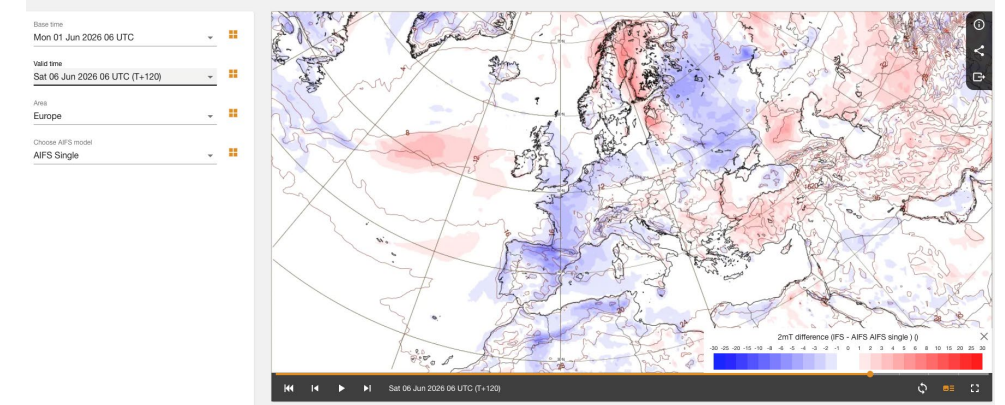
Better utilization of AIFS forecast ?



Interactive Meteograms ?



EXPERIMENTAL - IFS AIFS difference for 2m temperature



ECMWF plans : Co-design and co-development

Review of sub-seasonal products

