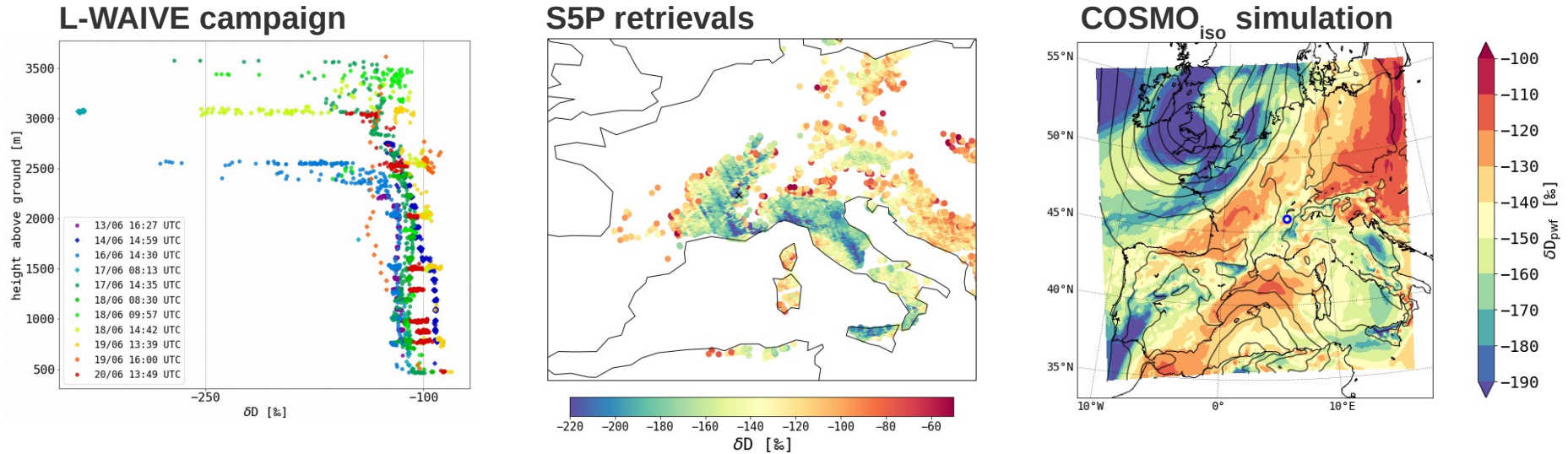


Spatial representativeness of in situ δD measurements in comparison to a satellite retrieved product and model simulations



Three datasets of different temporal and spatial resolution:

- ➔ How to combine these datasets?
- ➔ How to select pixels from satellite overpasses to compare with in-situ measurements?

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ATMOS2021, 23.11.2021



Temporal variability of spatial scales

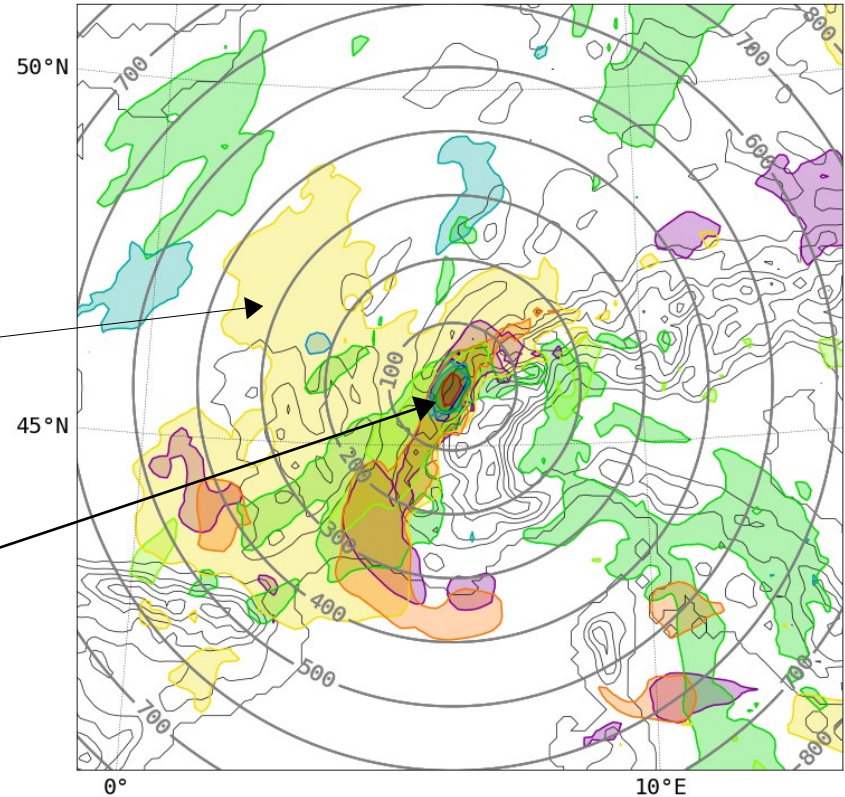
Synoptic forcing:

Large-scale forcing
by North Sea cyclone

Local convection in
high pressure system

Spatial scales:

- Shaped by topography
- High variability due to large-scale dynamics



0.8 Pearson correlation coefficient contours
of 48 h-time series for the LWAIVE location