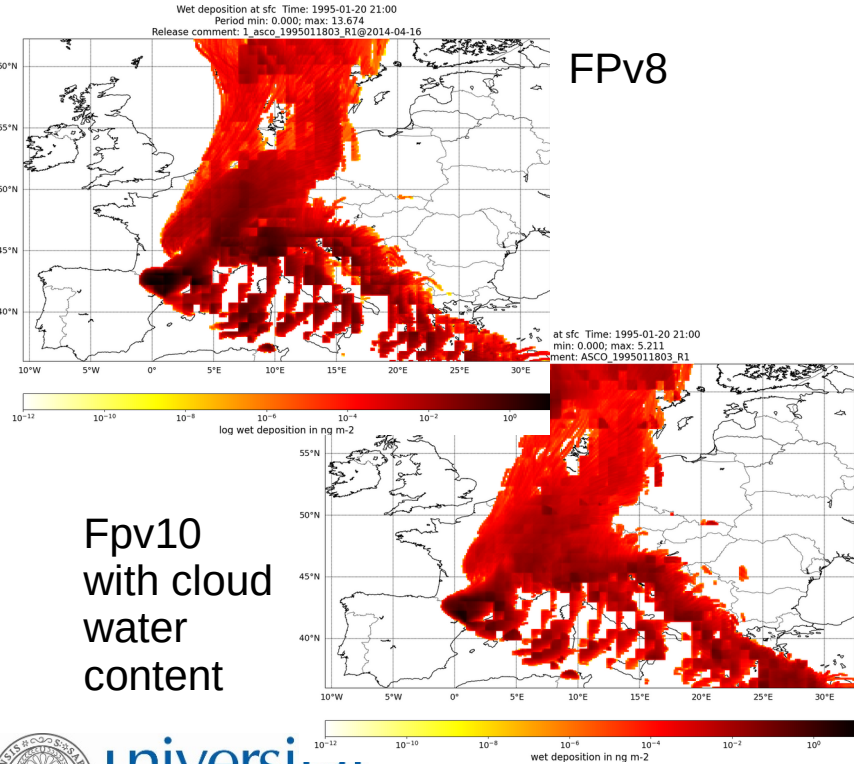


Wet deposition fields in a test case with three different versions of scheme and input data

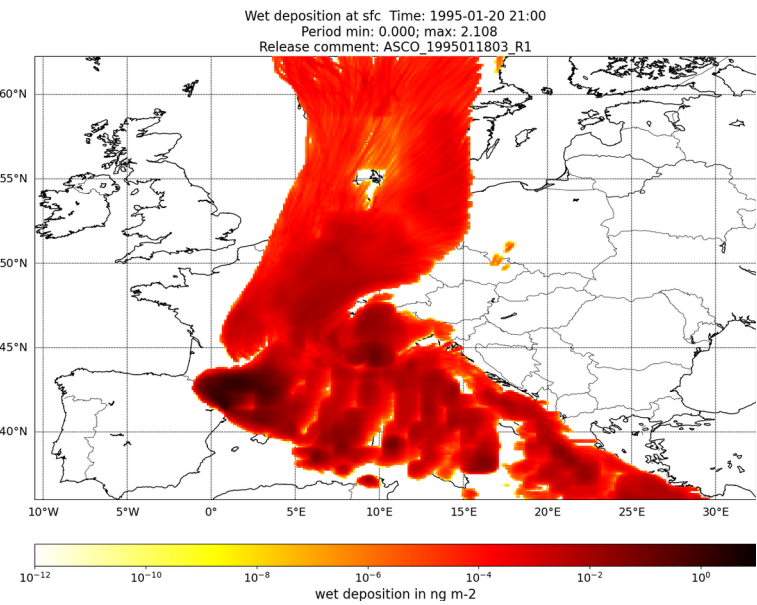
Starting point (Flexpart v8 - 10):

- Unrealistic patterns for output grid << input grid size
- Input data: ECMWF 1 h; 0.75°x0.75° hor. res.
- Output: 0.127°x0.09° hor. res.



With interpolation of all fields needed in wet scavenging:

- large-scale and convective precipitation (switched of in v10)
- total cloud cover **NEW**
- temperature of particle position **NEW**
- cloud water content **NEW**
- cloud bottom and thickness **NEW**



New precipitation disaggregation

- two additional fields per time interval
 - conservative within original time interval instead of over the whole time series
- Hittmeir, S., Philipp, A., and Seibert, P.: A conservative reconstruction scheme for the interpolation of extensive quantities in the Lagrangian particle dispersion model FLEXPART, Geosci. Model Dev., 11, 2503–2523, 2018
<https://doi.org/10.5194/gmd-11-2503-2018>

