

Points of attention

- ✓ High-resolution observations critical for mesoscale data assimilation:
 - availability, quality control, need for mix of observations, flow-dependency
 - radar, Mode-S, radiosondes
- ✓ Surface:
Orography/physiography: explore possibilities of higher accuracy local data / new high-resolution datasets
- ✓ OOPS developments
- ✓ Verification/validation: A-H cooperation starting up
- ✓ Joint rolling work plan

Radar data handling and quality control

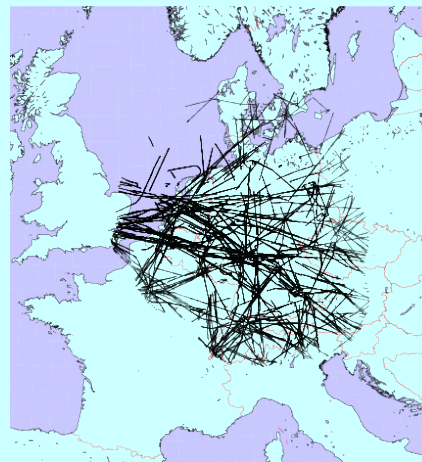
- Provision of data through Odyssey hub not going to be available anytime soon. Until then: bilateral agreements needed if something to be exchanged sooner => letter to Eumetnet Assembly (technical arrangements tbd later)
 - Reflectivity/wind data from European radars already provided to the OPERA data hub: level of QC too different to use them directly => need to apply “common” QC (as proposed in OPERA)
 - Experiments with Baltrad package in local implementations:
 - open source
 - presently not easy to implement locally
 - algorithm for de-aliasing of velocities still missing
 - cleaning not perfect, additional efforts still very much needed!
- => “transnational” radar data assimilation not easy, likely to require serious effort

Mode-S observations: a high-density data source nearly ready for real-time exchange

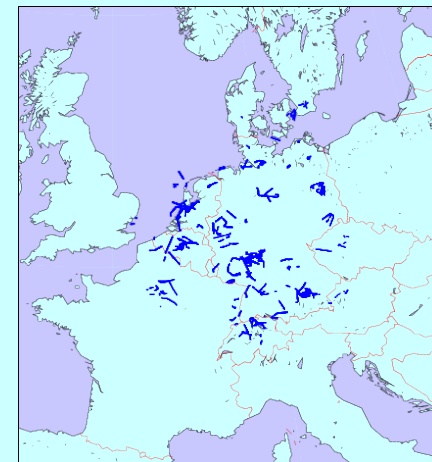
- ✓ Observations made by every aircraft for ATC: ff,ddd straightforward to deduce, T with some approximation
- ✓ Quality after QC/BC: comparable to radio soundings for ff,ddd, slightly worse for T, but very dense!
- ✓ Preliminary observation impact studies: very useful.
- ✓ Quality control/bias correction needed, algorithms for this under development
- ✓ Discussion ongoing with several ATC centers to arrange real-time data provision (expected latency: <10min) for a large European area. Intention: formal arrangements for free availability of these data to NMS's for official duty. Outcome expected ~summer 2013

Period 2012/08/09 10:00-10:15

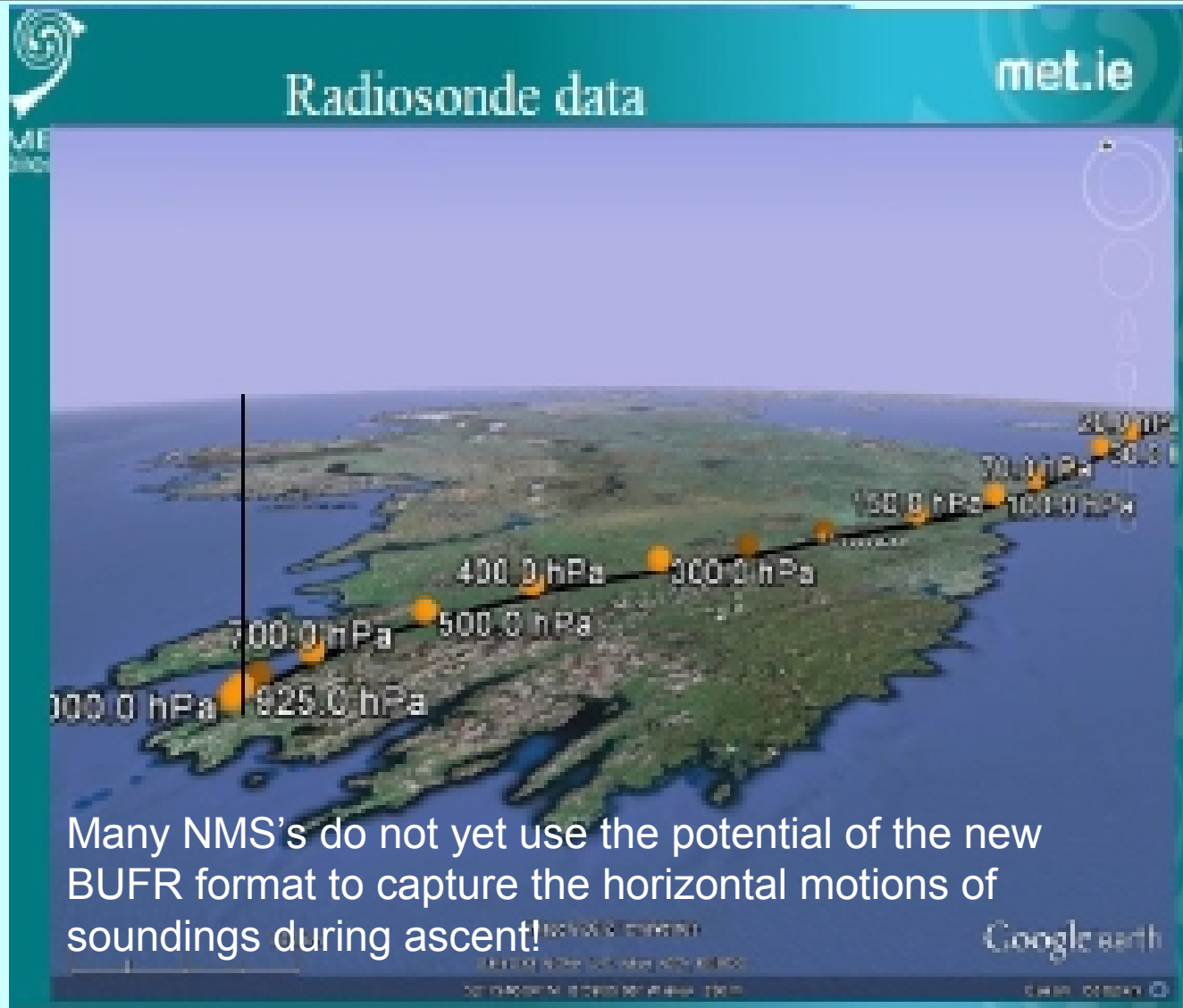
All observations (259135)



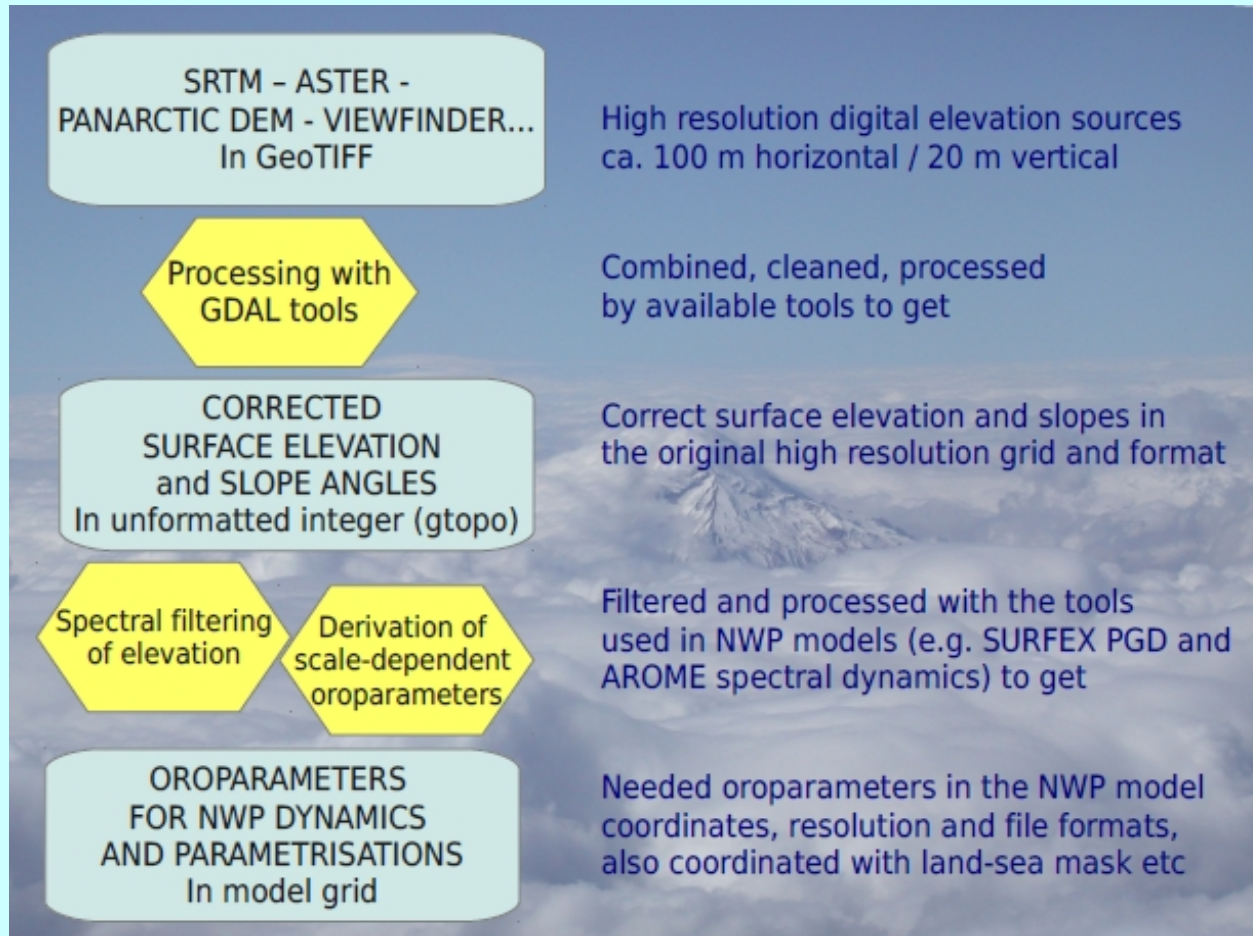
Below FL100 (30647)



Radio sondes: new BUFR format



Use of very fine resolution data or more accurate local data



Item for joint actions in Surfex Steering Committee?