

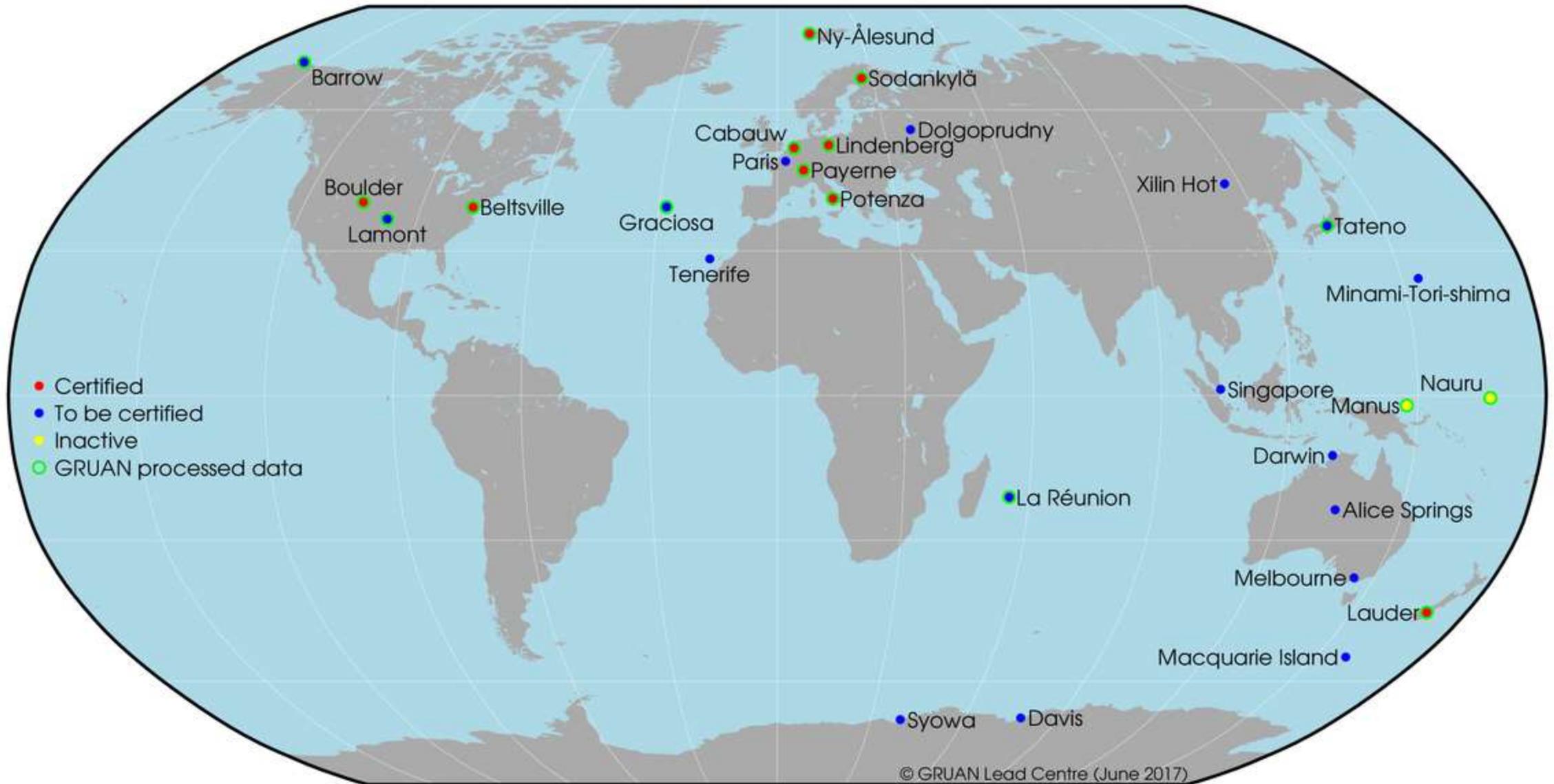
Update from Lauder

Richard Querel

ICM9 – Helsinki – 2017-06-14



GCOS Reference Upper-Air Network





Data SIO, NOAA, U.S. Navy, NGA, GEBCO
Image Landsat
Image U.S. Geological Survey
Image PGC/NASA

Google earth

Logistics

- Site funding is stable (and shrinking in real terms)
- Long-term measurements being evaluated (trying to ring-fence them)
- Lauder has 8 full-time staff (4 Sci, 4 Tech)
- Scientific staff has been turned-over, technicians have most knowledge
(3 Sci & 1 Tech < 4 years @ Lauder)

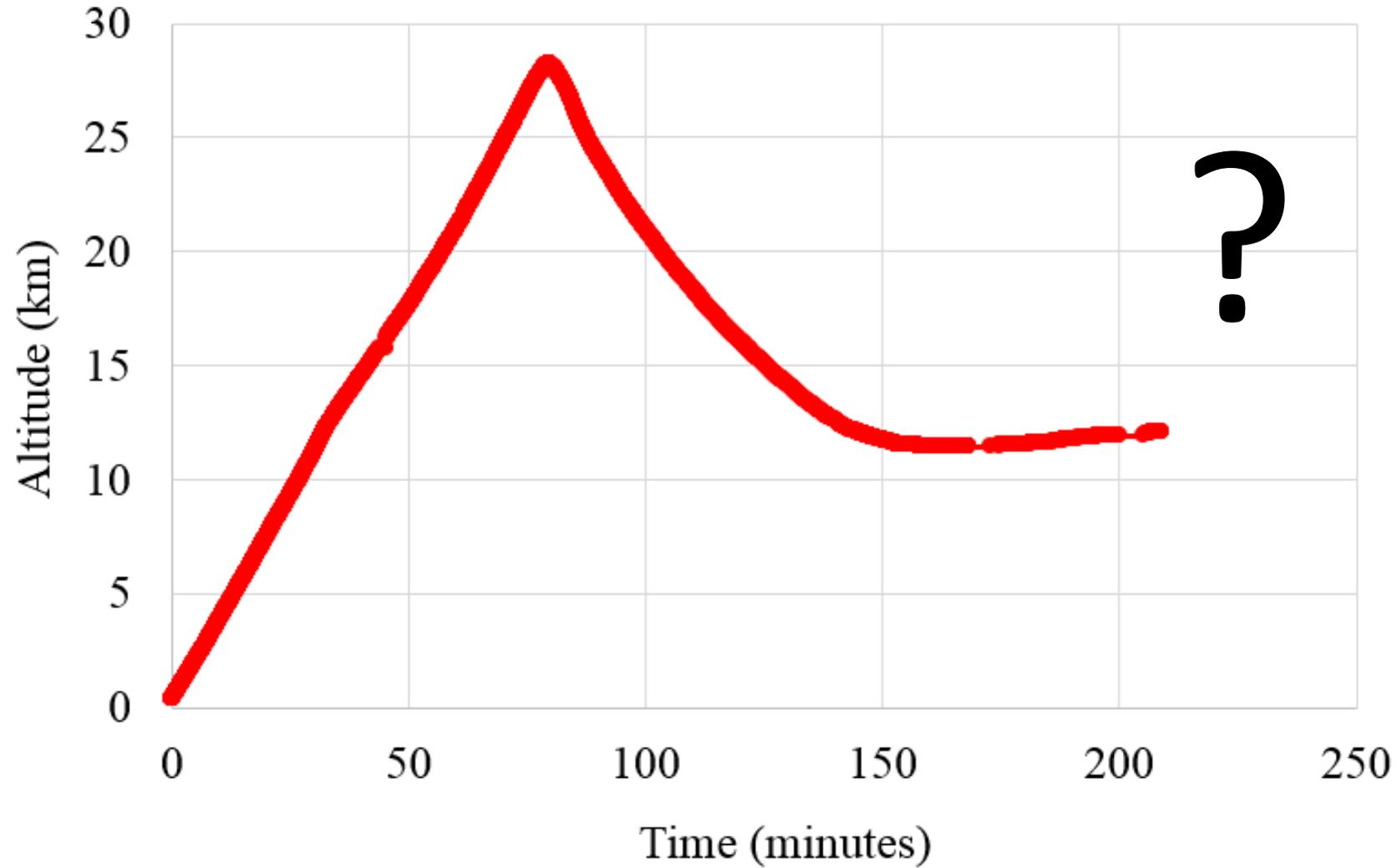
Instruments

- Ozone LIDAR transition in process
 - RIVM giving ownership to Lauder from July 1, 2017.
 - ESA supporting hardware/software upgrade (Oct.2017 / Apr.2018?)
 - NASA JPL offering technical support and processing software
- U.S. NRL Ozone microwave radiometer being upgraded. Slated for re-installation in 2-3 years...
- New Bruker HR125 for Lauder this year (Arrival Heights replaced too)
- 3 new MAXDOAS to be installed at Lauder, Macquarie Is., Arrival Heights
- All-sky camera systems being developed for cloud studies
- Upgrade of legacy instruments underway (UV radiation, UV/vis systems)

Measurements and Campaigns

- RS41-RS92 dual-intercomparison now an alternating intercomparison
- 2 Lauder systems at CINDI-2 (MAXDOAS intercomparison at Cabauw)
- Dobson NDACC intercomparisons (Lauder and Arrival Heights)
- Staged a parallel Australia-NZ EnviMeS MAXDOAS intercomparison
- NASA SAGE III-ISS validation balloon launches to start soon (TBD)
- OCO-2 regularly targeting Lauder
- NOAA AirCore launches (2/4 successful)
- ATom overpass of Lauder (1/2 successful, 2 more scheduled)
- UAV tests (to 1km) with aerosol sensors ahead of Antarctic voyage
- NZ Aviation authorities slow to approve return glidersonde launches

NOAA FPH - LA156 - 2017-05-30



Thanks!