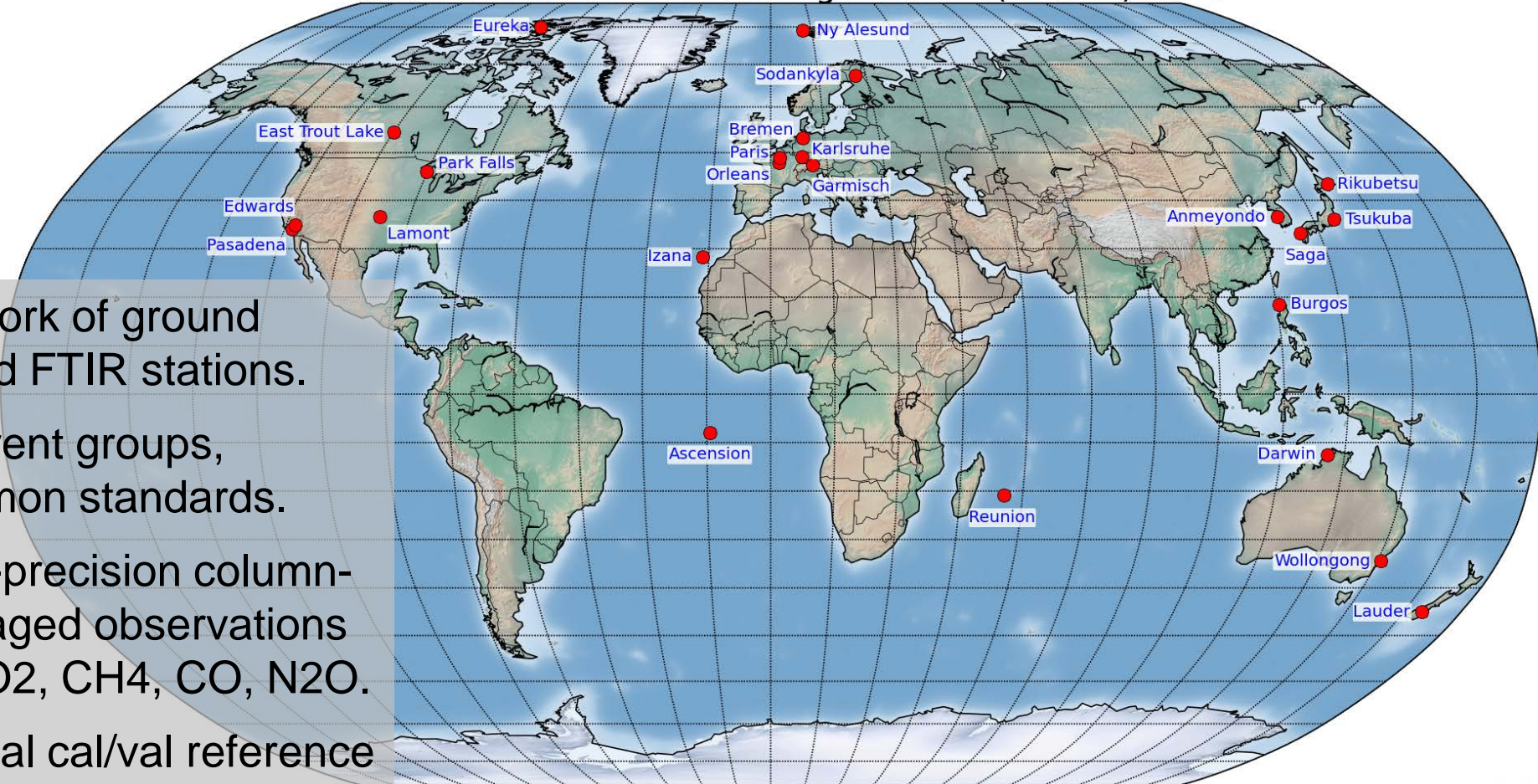


# Total Carbon Column Observing Network (TCCON)

Total Carbon Column Observing Network (TCCON) 2019



- Network of ground based FTIR stations.
- Different groups, common standards.
- High-precision column-averaged observations of CO<sub>2</sub>, CH<sub>4</sub>, CO, N<sub>2</sub>O.
- Crucial cal/val reference for all satellite GHG observations.

# TCCON metadata in OSCAR

- TCCON was first contacted about OSCAR database by Drasko Vasiljevic in May 2020.
- TCCON chairs are interested to have TCCON included in OSCAR database.
- Contact: Dietrich Feist (DLR & LMU Munich):
  - TCCON Deputy Chair for Africa & Europe
  - PI of Ascension Island TCCON station
  - Responsible for setup and maintenance of the XML meta data for TCCON dataset DOIs.

# Current status and further steps

- Outdated meta data for several stations already exists in OSCAR from TCCON's initial association with GAW several years ago.
- Probably best to recreate meta data from scratch as many new stations are missing and some have been closed or moved since.
- Some of the metadata required by the WIGOS standard can be derived from the existing TCCON dataset DOI metadata. Some has to be collected from the TCCON PIs.
- Major update of the TCCON data and metadata planned before the end of 2020. Additional metadata required for WIGOS standard will be collected in the process.
- Creation of WIGOS XML data realistic by spring 2021 (limited resources).