

Network for the Detection of Atmospheric Composition Change

Exploring the Interface between Changing Atmospheric Composition and Climate change

Co-chairs: Martine De Mazière (BIRA-IASB) and Anne Thompson (NASA - GSFC)

- ### Network objectives
- Long-term monitoring of atmospheric variables for detection and quantification of variabilities and trends
 - Establishment of scientific links and feedbacks between climate change and atmospheric composition
 - Support to scientific field campaigns
 - Support to satellite calibration and validation
 - Support to model validation

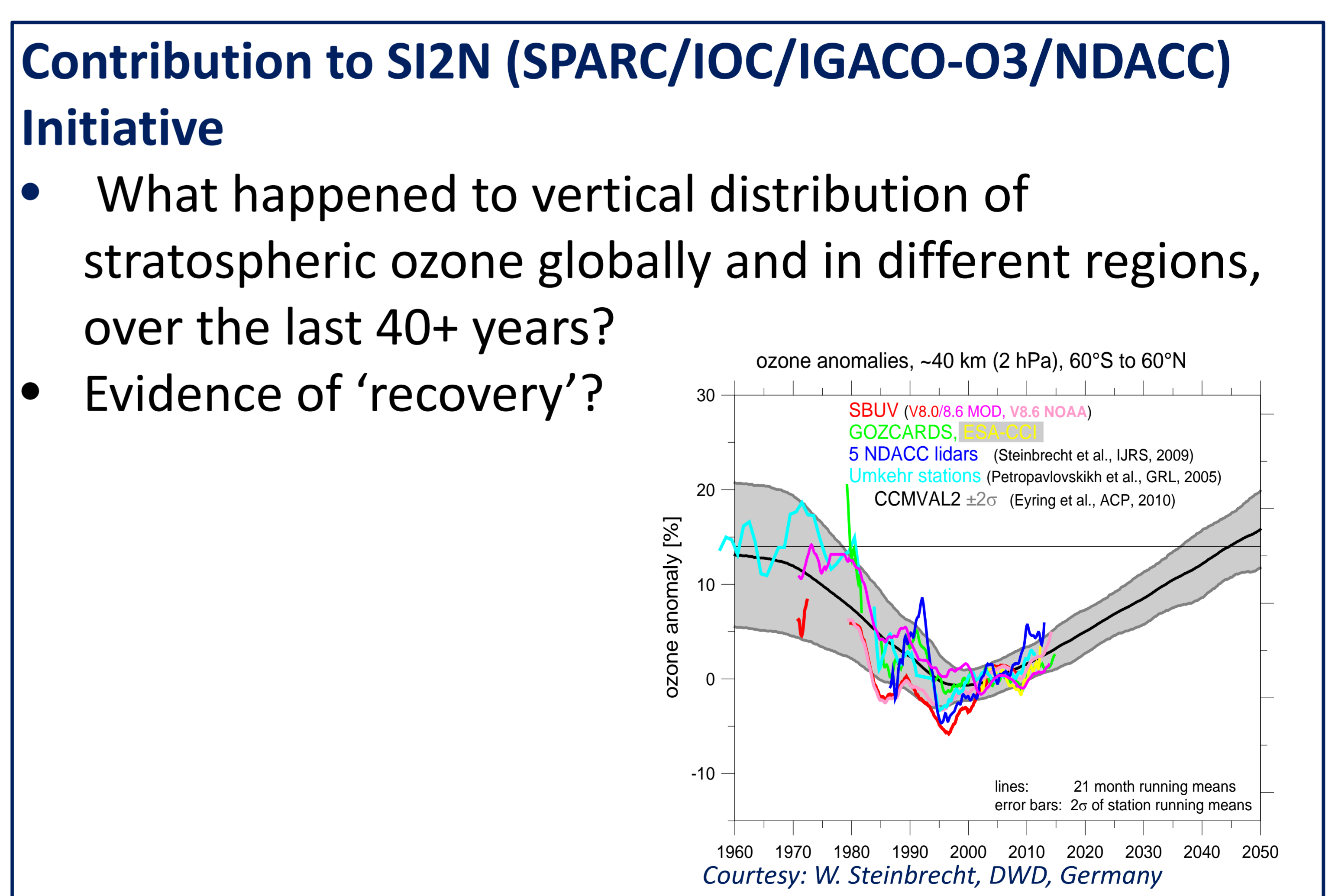
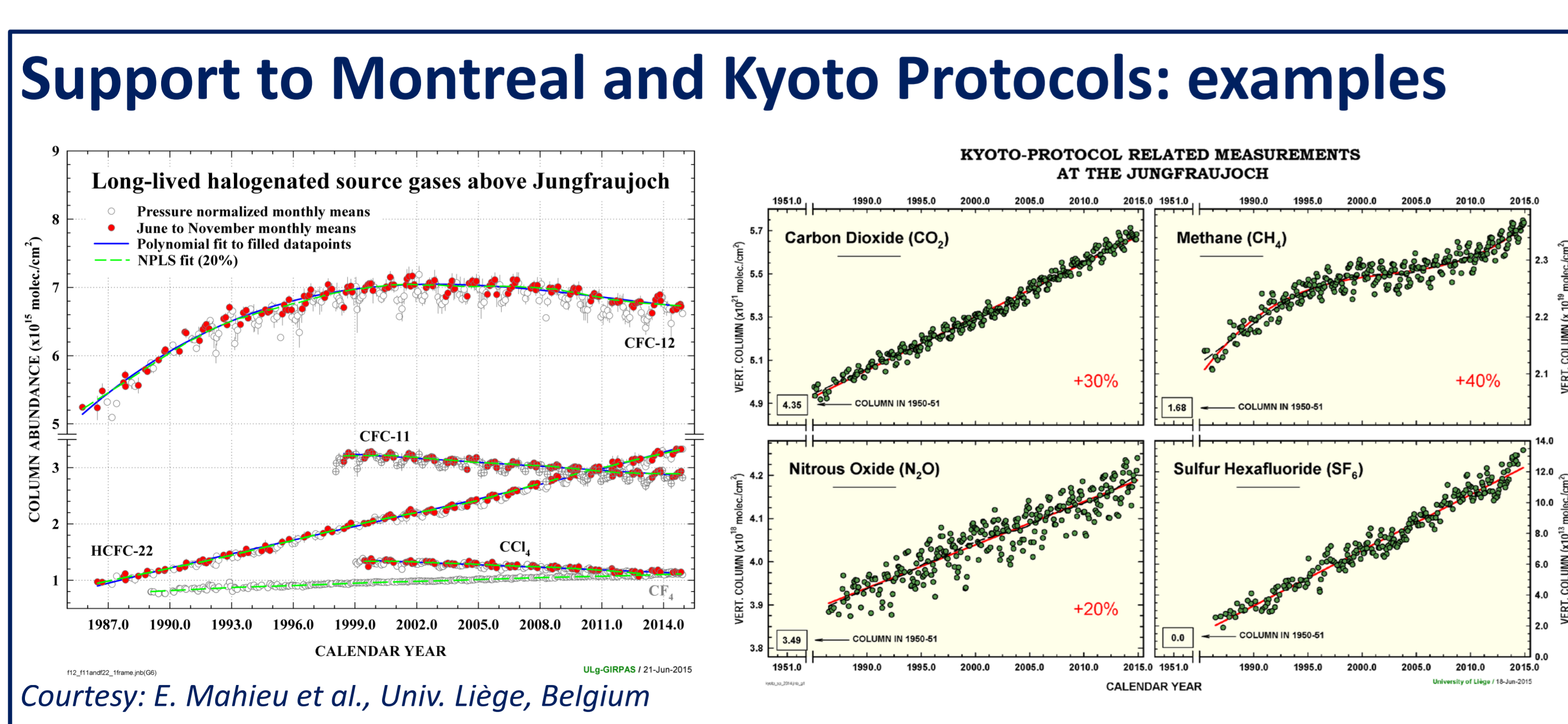
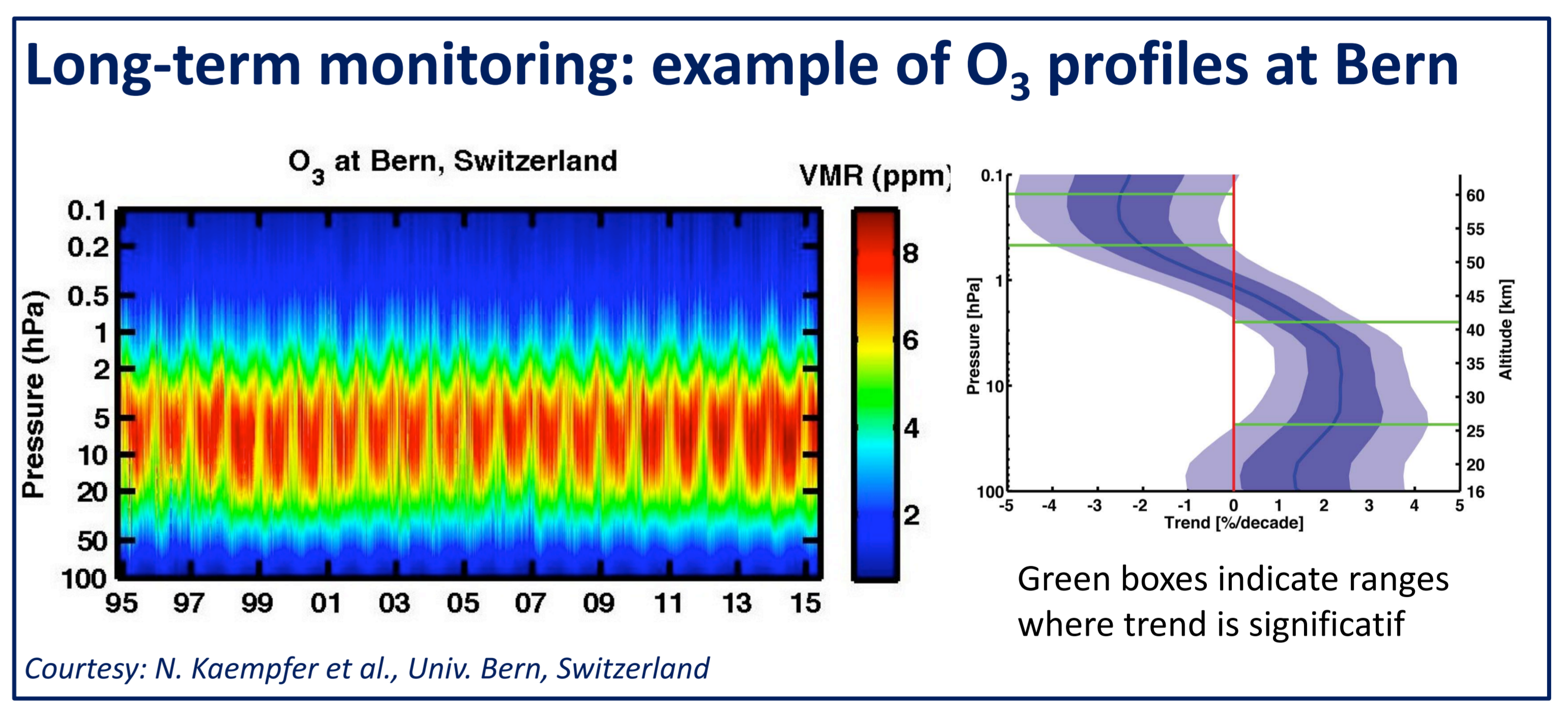
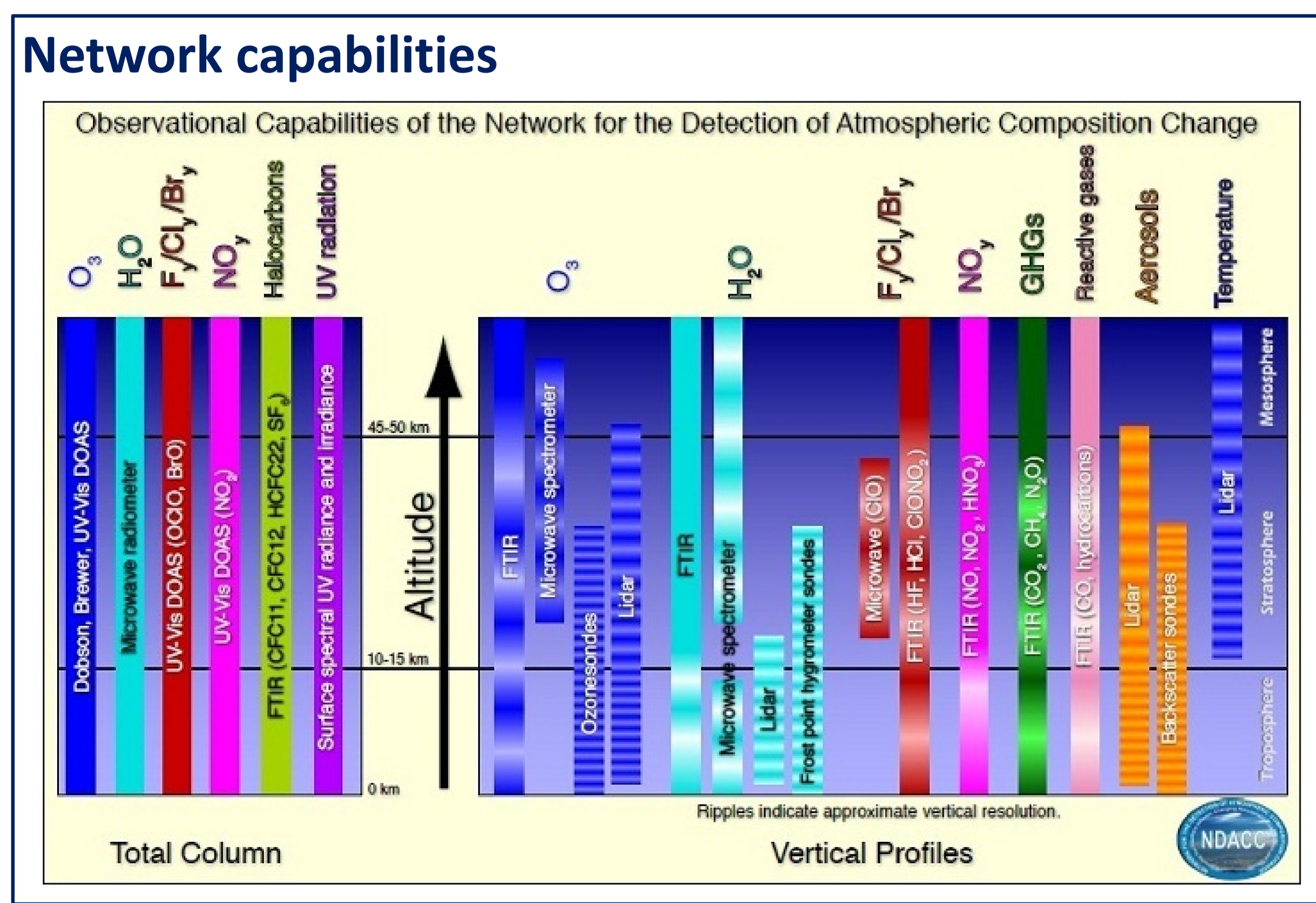
- ### Network organisation
- Steering Committee, consisting of
 - 2 co-chairs + executive secretary
 - Working Groups co-chairs and Ex-Officio and Peer Members
 - Working Groups and Science Teams
- | | | | | | | |
|-----------------|-------------------|--------------|-----------|-----------------------------------|-------------|------------|
| Dobson & Brewer | FTIR | LIDAR | Microwave | Sondes | Spectral UV | UV-Visible |
| Satellite | Theory & Analysis | Water Vapour | Ozone | Measurement Strategies & Emphases | | |

Network status

- Operational since 1991 ⇒ 25 years in 2016
- More than 80 stations worldwide

NDACC Sites

- Central data archiving at <ftp.cpc.ncep.noaa.gov/ndacc>
- Instrument operations and data quality must comply with data protocols established by Working Group



NDACC collaborates with TCCON or Total Carbon Column Observing Network

TCCON is a network of FTIR spectrometers for the measurement of greenhouse gases with high precision & accuracy (better than 1 ppm for CO₂ and 5 ppb and 7 ppb for CH₄)

www.ndacc.org
www.tcon.caltech.edu