



39th Global Monitoring Annual Conference

Boulder, Colorado

May 17, 2011

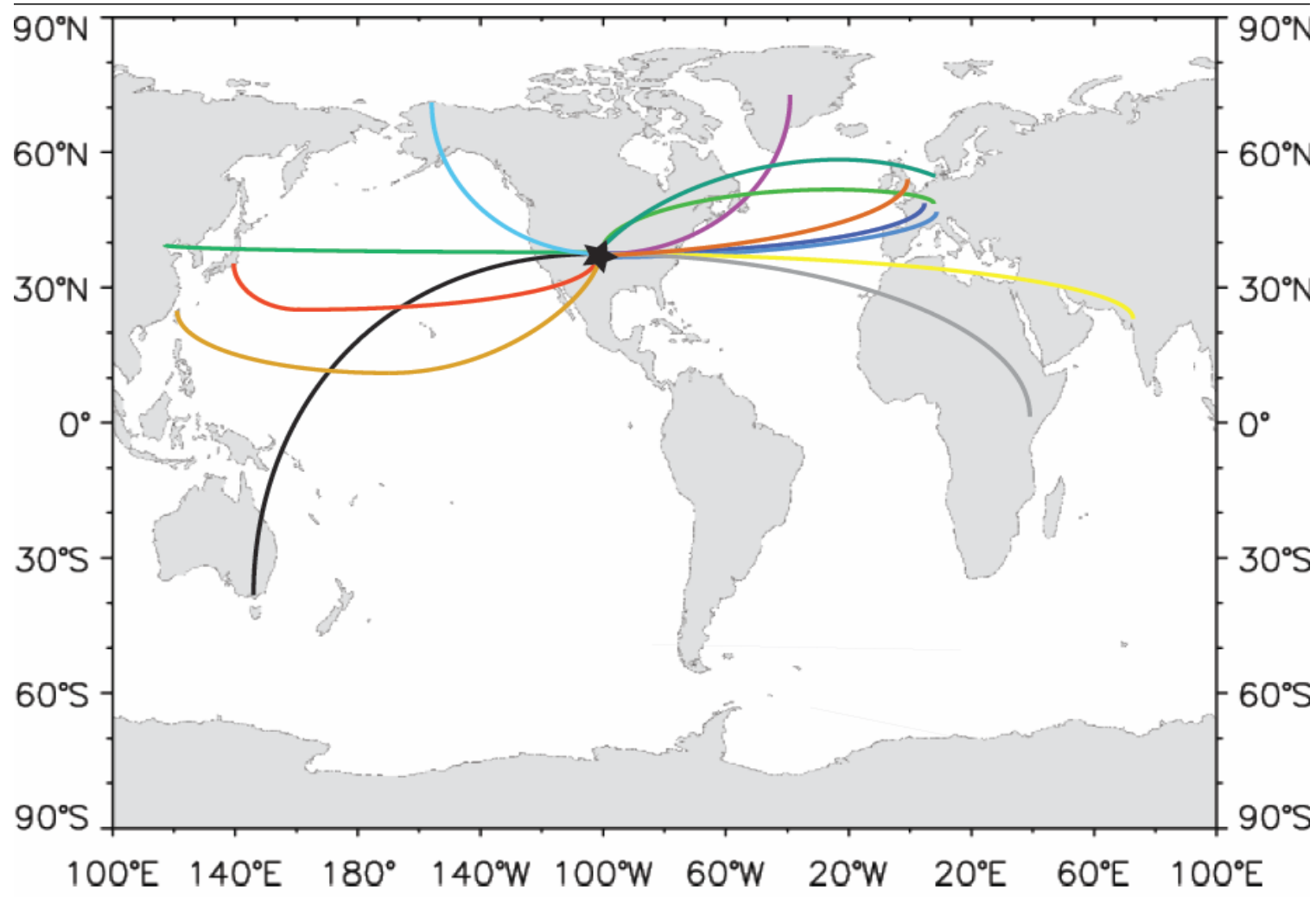


Housekeeping

- Poster session, 5-8 pm today!
 - Staff will hang your poster up for you IF you provide the poster this morning
- Agendas are available at the desk
- A few printed abstract books are kept at the desk for quick reference
 - Wireless access throughout the building
 - DSRC connection
 - Username: gmac
 - Password: gmac
- Lunches Delivered here
 - Sign up and pay money
- Toilets, fire alarm, etc.
- Questions – please see our wonderful staff



Guests from a Distance





Make-up of the 2011 GMAC

Attendance

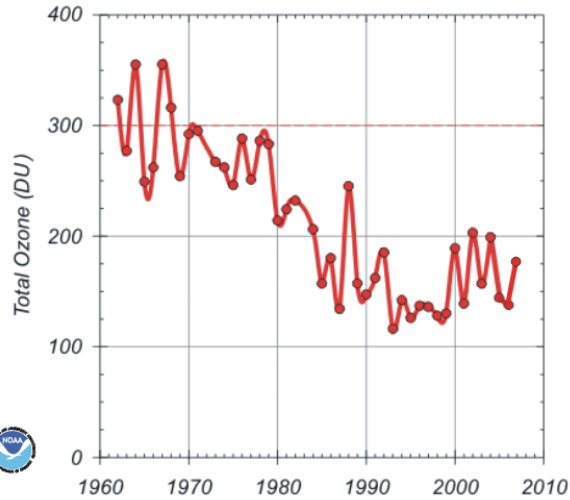
- 230 Attendees
 - 28 Foreign national
 - 86 GMD
 - 116 Other US
- Institutions
 - 11 Nations
 - 10 International agencies & organizations
 - 5 International universities
 - 12 Federal agencies
 - 12 US universities

Contributions

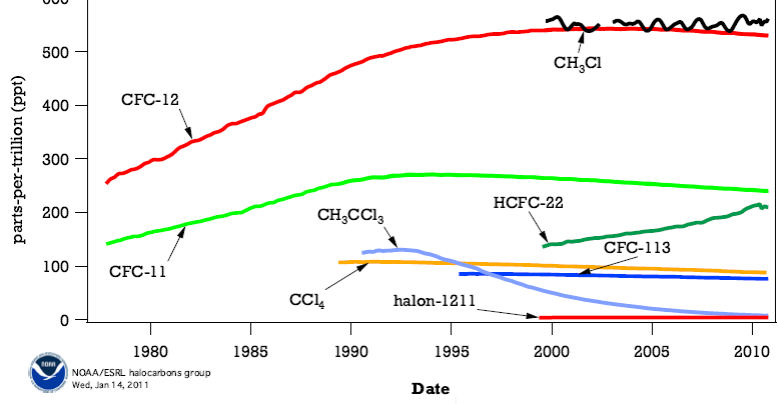
- 108 Presentations
 - 108 Lead authors
 - 320 “unique” co-authors
- Institutions Represented
 - 10 NOAA laboratories
 - 15 “other” federal agencies/labs
 - 20 Countries
- Academics
 - 28 US universities
 - 36 Int’l universities



South Pole Dobson Ozone Spectrophotometer
October 15-31 Average



Global Mean Mixing Ratios

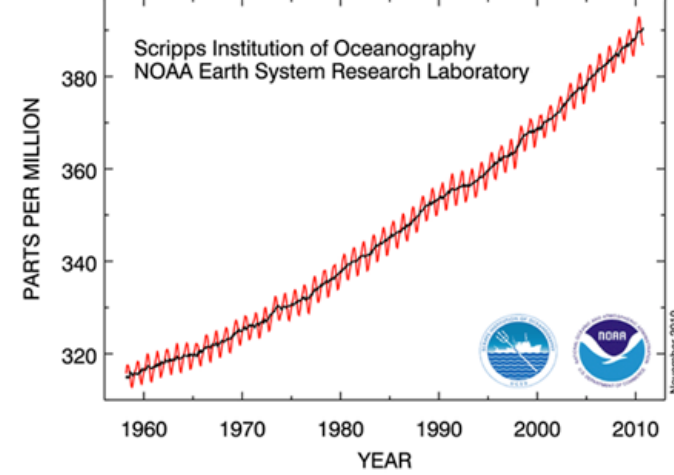


NOAA/ESRL halocarbons group
Wed, Jan 14, 2011

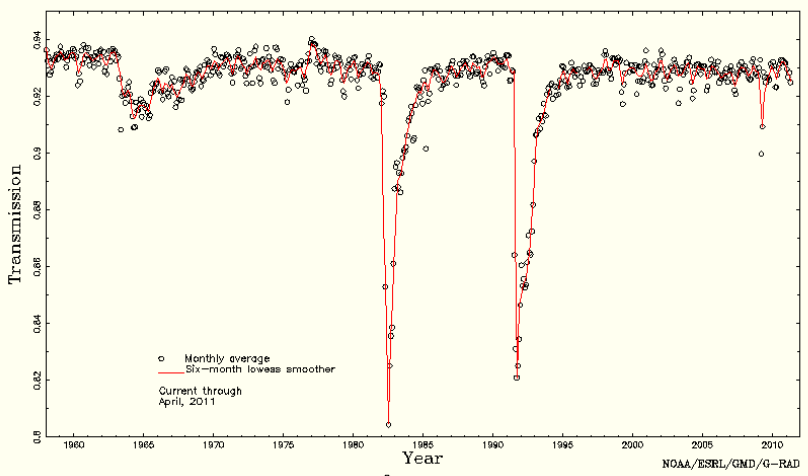


Accurate long-term records

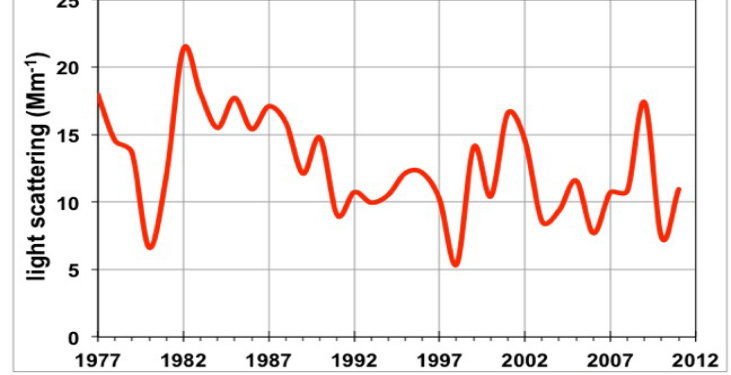
Atmospheric CO₂ at Mauna Loa Observatory



Mauna Loa Apparent Transmission (Preliminary)

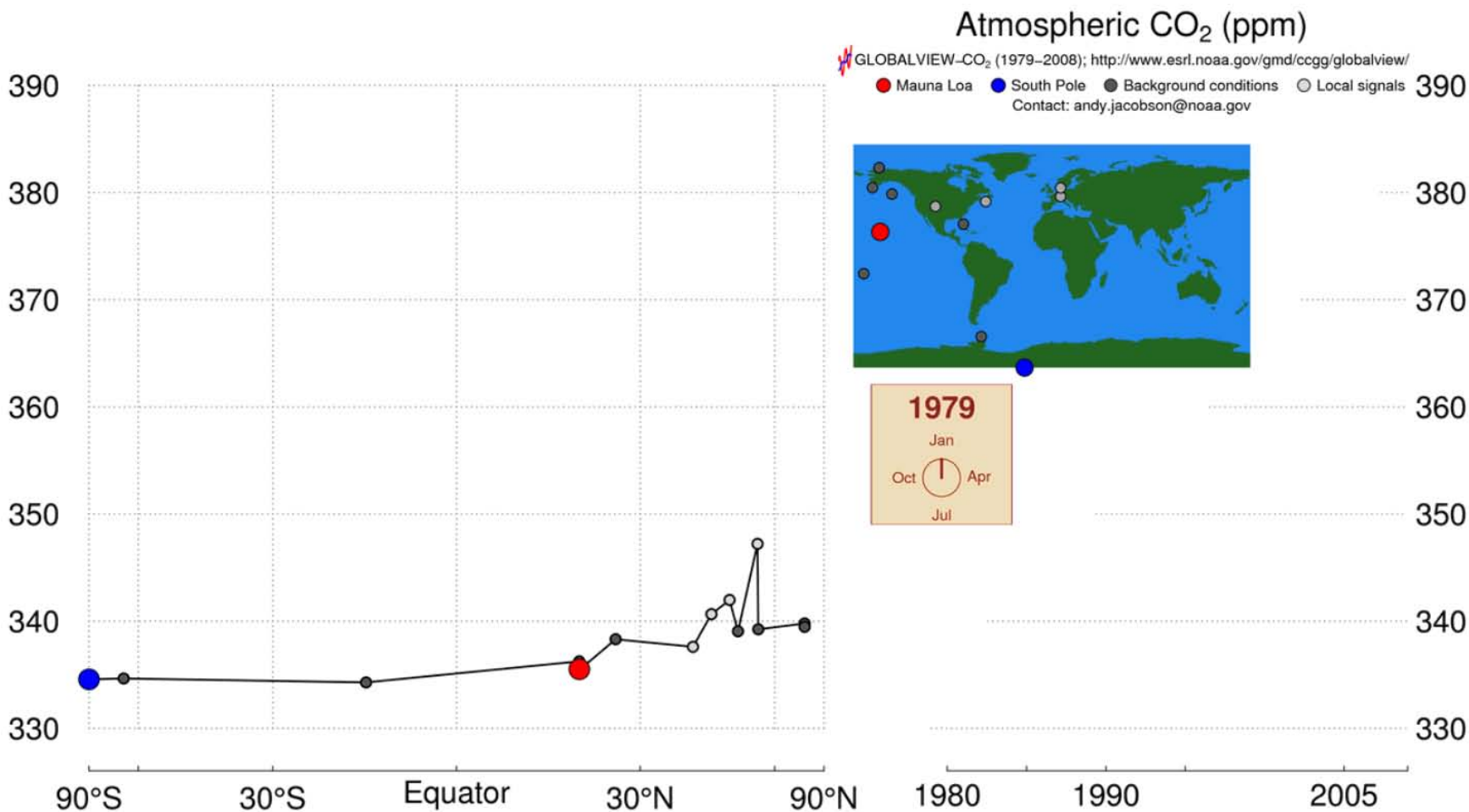


Arctic Haze at Barrow (April average)



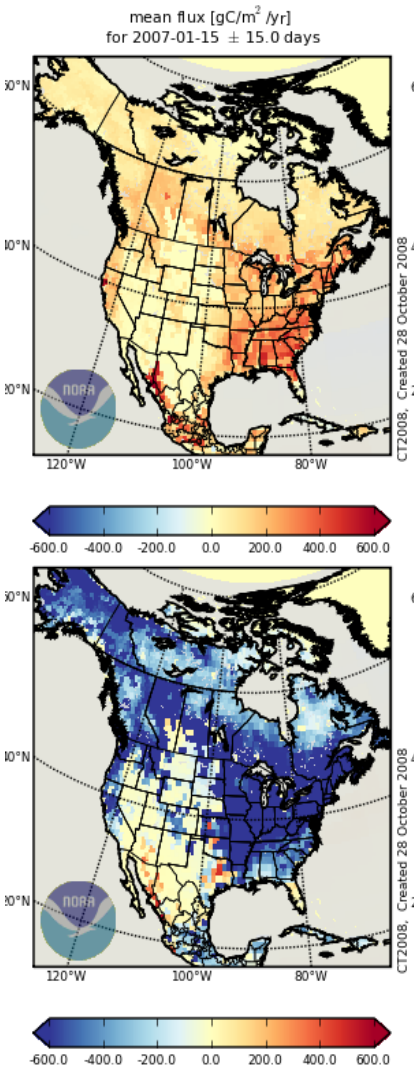


Ensuring systematic observations



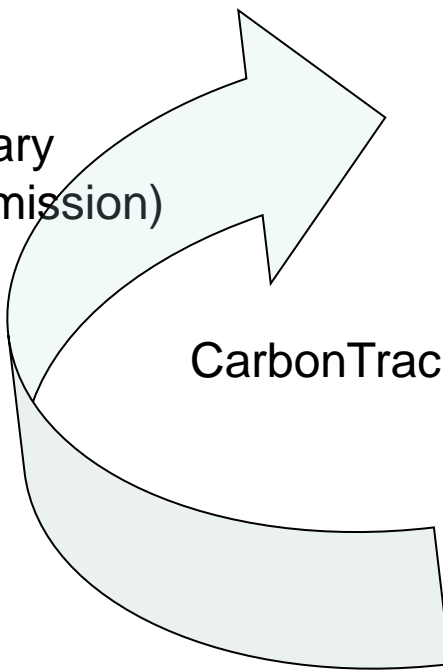
<http://www.youtube.com/watch?v=H2mZyCbIxs4>

One "Systems Approach"



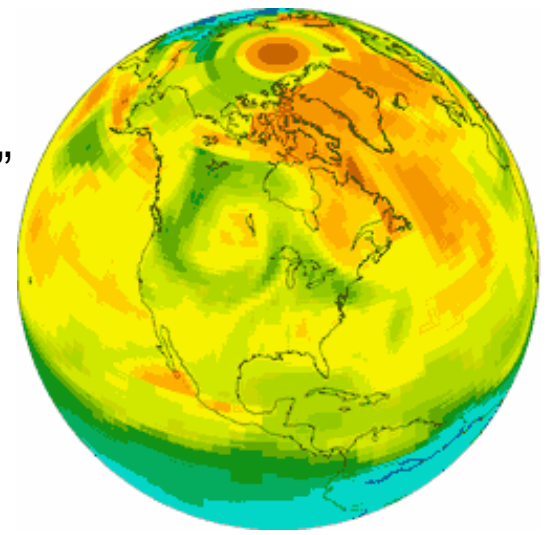
January
(net CO₂ emission)

July
(net CO₂ uptake)

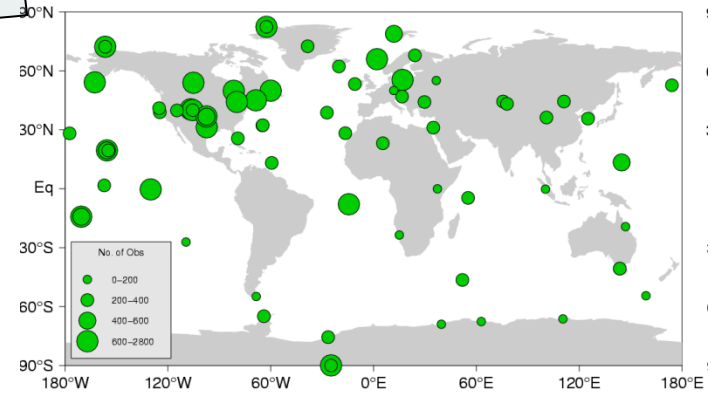


CarbonTracker™

"Carbon
Weather"

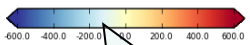
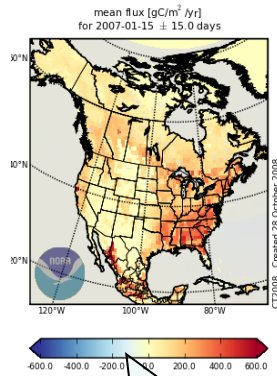
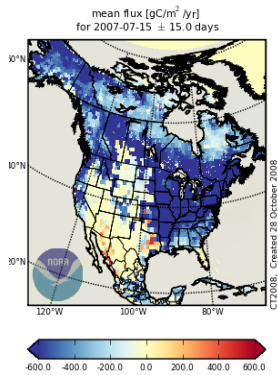
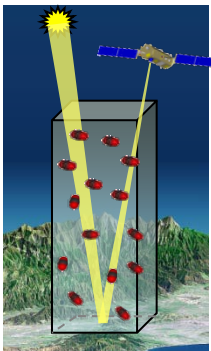


Long-term
Observations

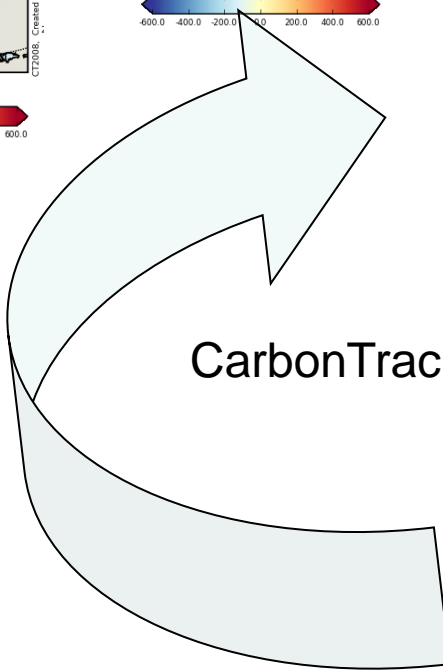
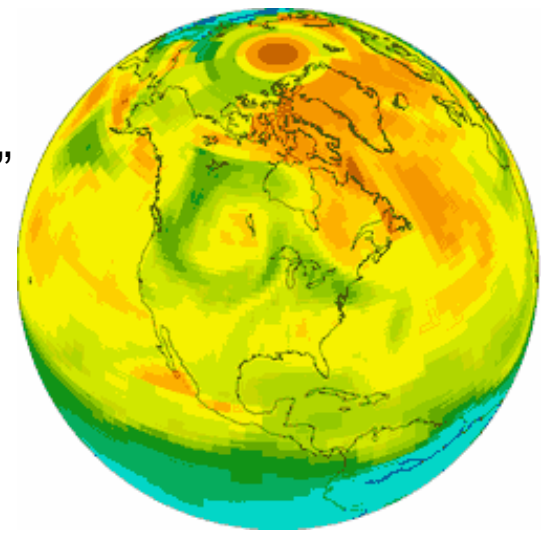




Satellites



“Carbon Weather”

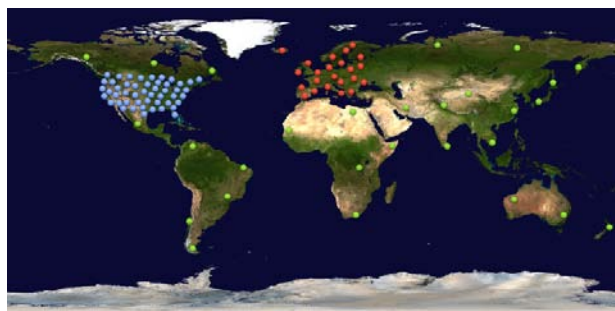


CarbonTracker™

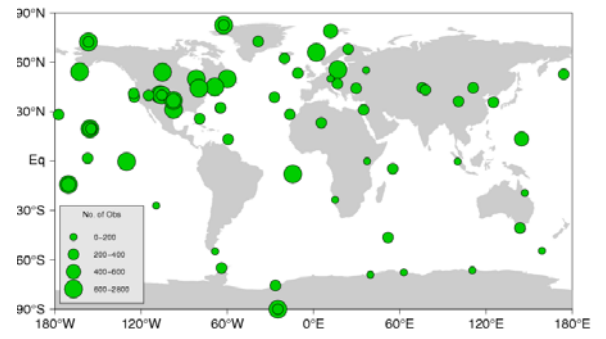
TCCON



Earth Networks



Current Network





Thank you all for coming!

We look forward to a productive, energetic
conference