NOAA/ESRL Operations at Summit, Greenland
(Updated: August, 2008)

- ## Program Highlights

Current commitment:

- NOAA staff (1), Aug – May (9 months)
- Surface meteorology, official Summit met station for the Air National Guard (ANG) summer flight operations (continuous)
- Surface ozone analyzer (continuous)
- Flasks - Carbon cycle and greenhouse gases (CO, CO_2, CH_4… ~20 different gas species) (weekly)
- Aethalometer - surface black carbon (continuous)
- Flasks - Halocarbons and other trace species (CFCs and HFCs) (bi-weekly)
- In situ gas chromatography for trace gases (CFCs, SF_6, N_2O, halon-1211... 8 species) (continuous)
- Stratospheric water vapor vertical balloon profiles (monthly)
- Ozonesonde vertical balloon profiles (weekly)
- Vaisala radiosonde flights in conjunction with ozonesonde package (weekly)
- All data available online and through various world data centers

Near Future Plans:

- Year around staff (1) soon
- Aerosol measurements: absorption, scattering, total particles, and count (within the next two years as part of the NOAA climate system)

Cooperative Programs:

- Solar radiation instrumentation to complement K. Steffen's suite as part of the Baseline Surface Radiation Network (BSRN) Program and the World Climate Research Programme (WCRP) (in progress)
- Micro-pulse lidar (MPL) with NASA Goddard (preliminary discussion only)
- Available to provide assistance (installation and/or year-round technical) for other projects and partners regarding maintenance and operation of instrumentation