



Flask volume ~ 1.5 liters



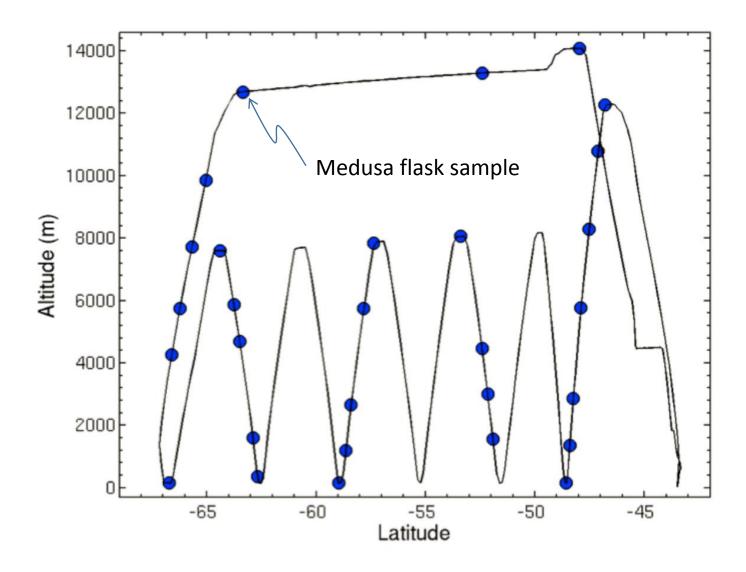


Figure 3.3. A typical Southern Ocean "return" flight track, HIPPO5 RF09, with locations of MEDUSA flask samples noted in blue. The GV aircraft started from Christchurch, NZ, flying saw-tooth maneuvers south, and returned to Christchurch at altitude.

Medusa Specifications:

Flask count: 32

Inlet: Rear-facing tube within HIMIL

Flushing time: 70-120 sec

Flow rate: ~ 1500 to 3500 sccm

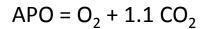
Elevation range: 0 to 45000ft

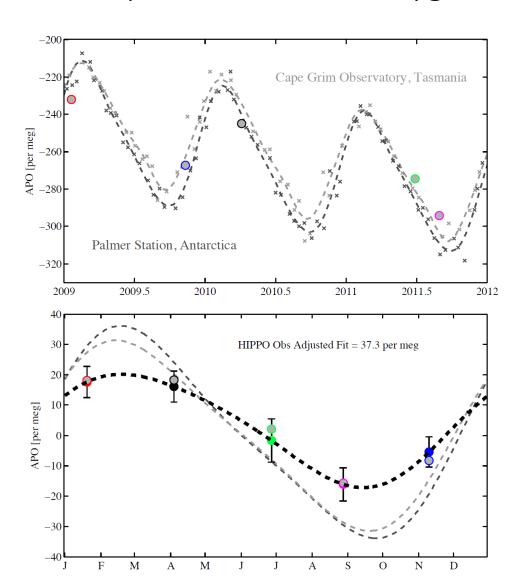
Vertical resolution: ~1000m

Analyzed variables:

 CO_2 , O_2/N_2 , Ar/N_2 , $\delta^{13}C-CO_2$, $\delta^{18}O-CO_2$, (14C-CO₂)

Seasonal cycles in Atmospheric Potential Oxygen





Palmer Station flask record

