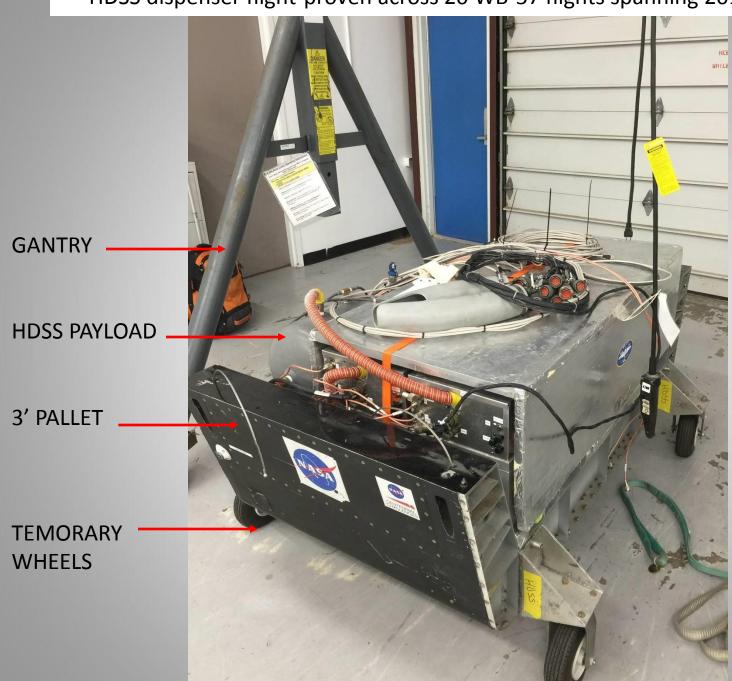
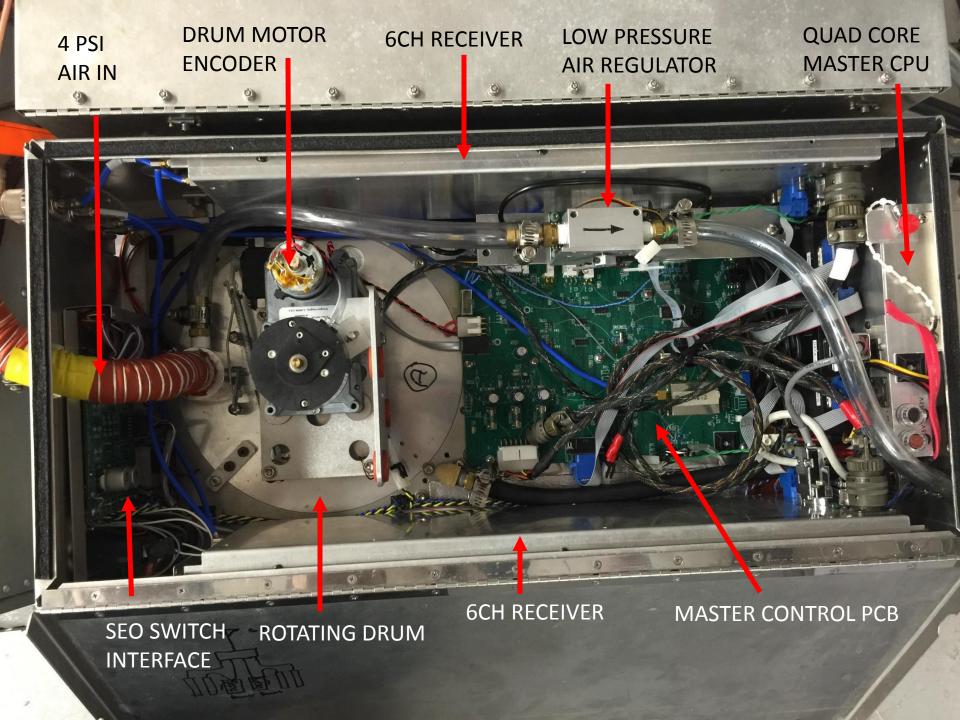


HDSS dispenser flight-proven across 20 WB-57 flights spanning 2013-2015



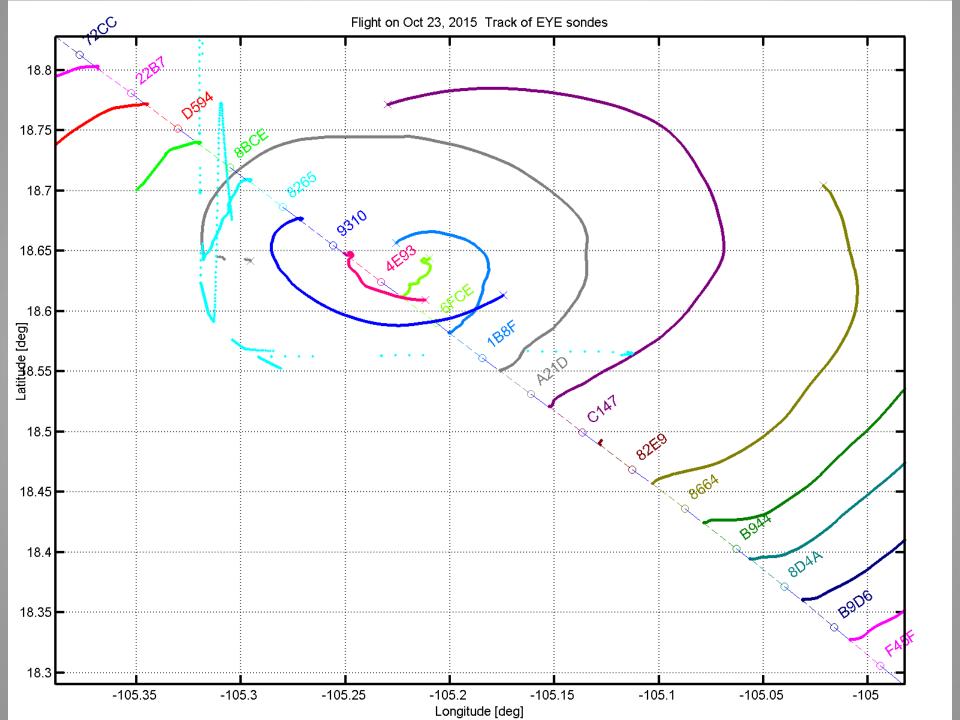


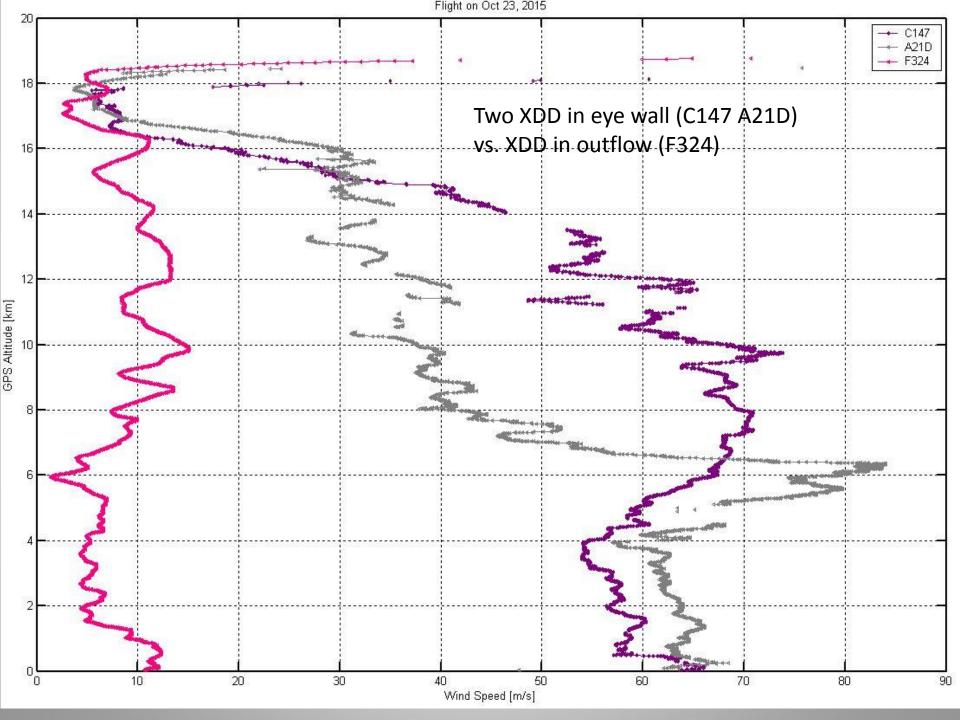


Challenge of IR measurements ... the list of unknowns is ugly:

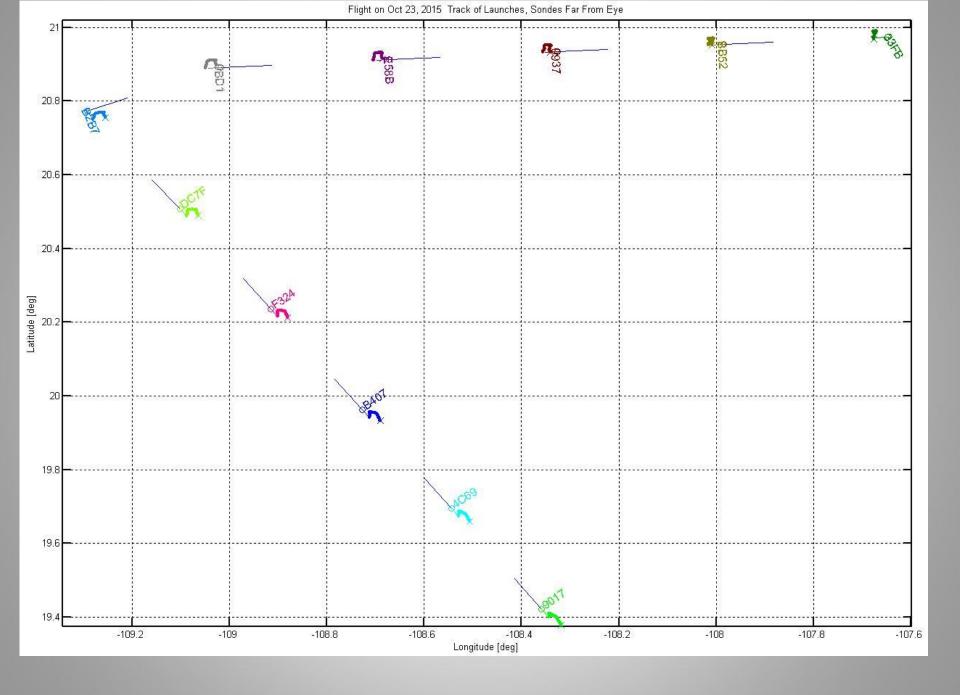
- Limit height for last data packet received (LS curve to surface)
- Altitude determination (hypsometric equation assumes constant Ta)
- Variability in thermal IR window filter (convolve signal)
- Contamination (window wetting, cold rain, water vapor)
- Look / tip angle (field-of-view to surface)
- Emissivity of surface in turbulent seas (what is the "surface"?)
- Variability in base "reference" temperature (dynamics)

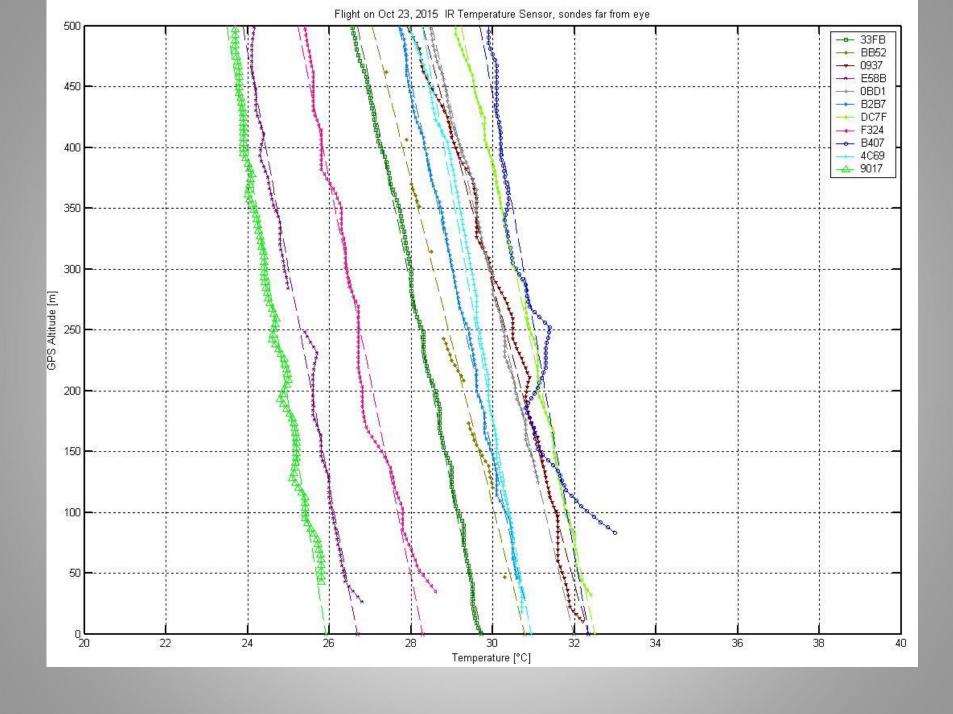


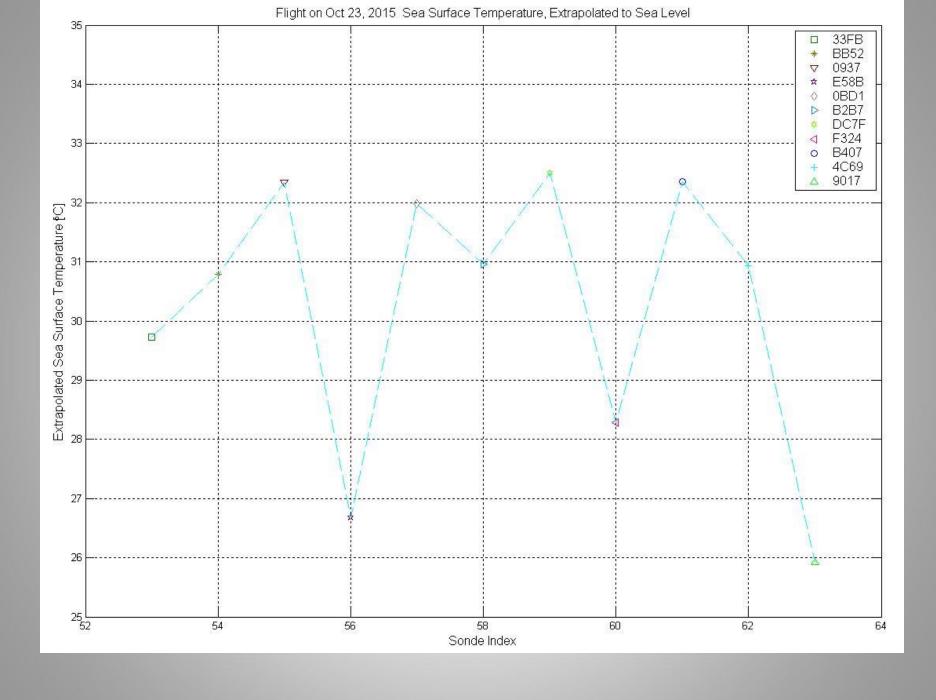


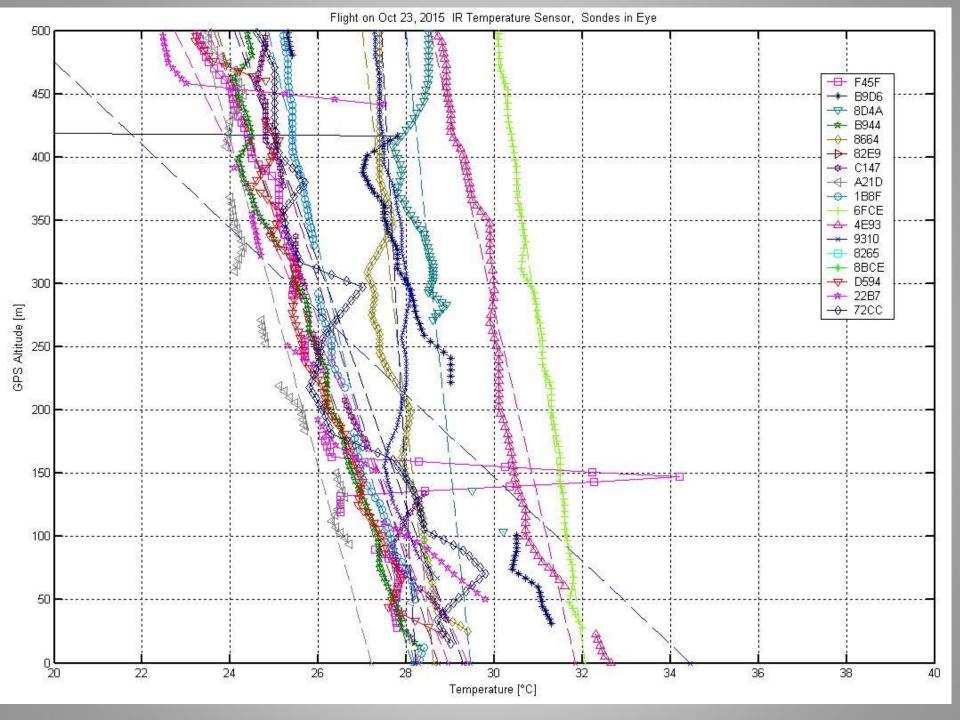


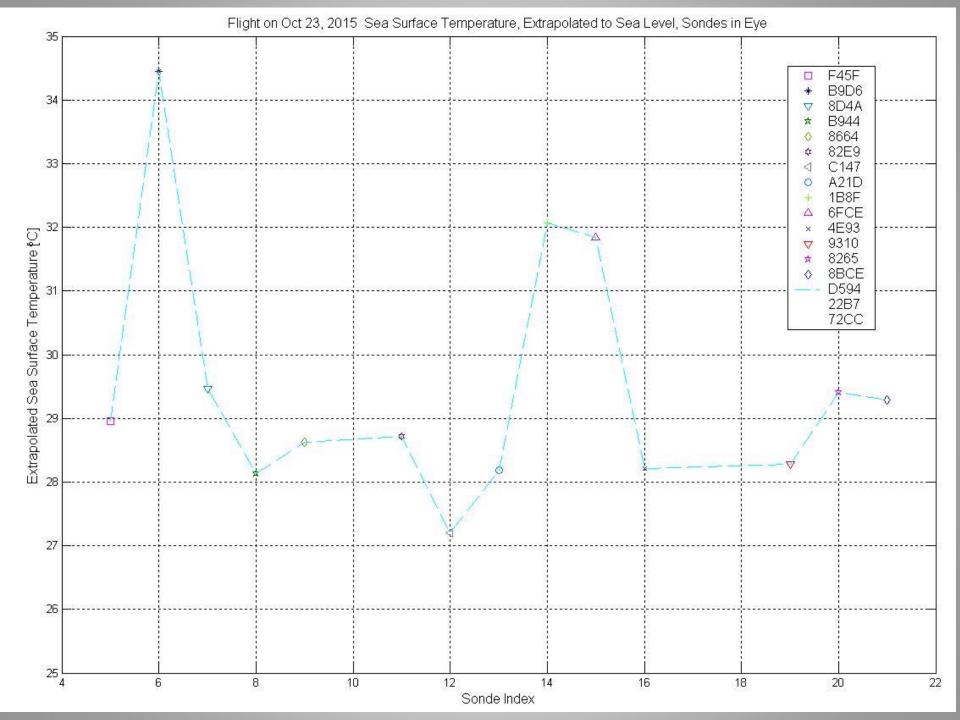
Flight on Oct 23, 2015, Fall Speed vs GPS altitude, Sondes C147, A23D, F324 → C147 → A21D GPS Altitude [km] 10 25 35 50 Fall Speed Speed [m/s]

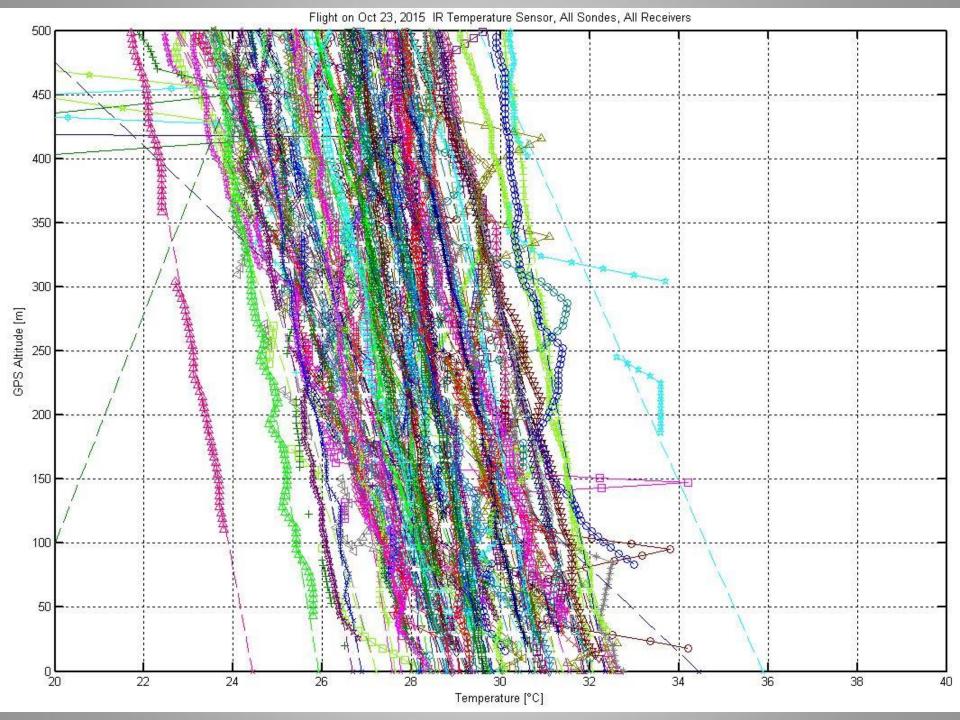


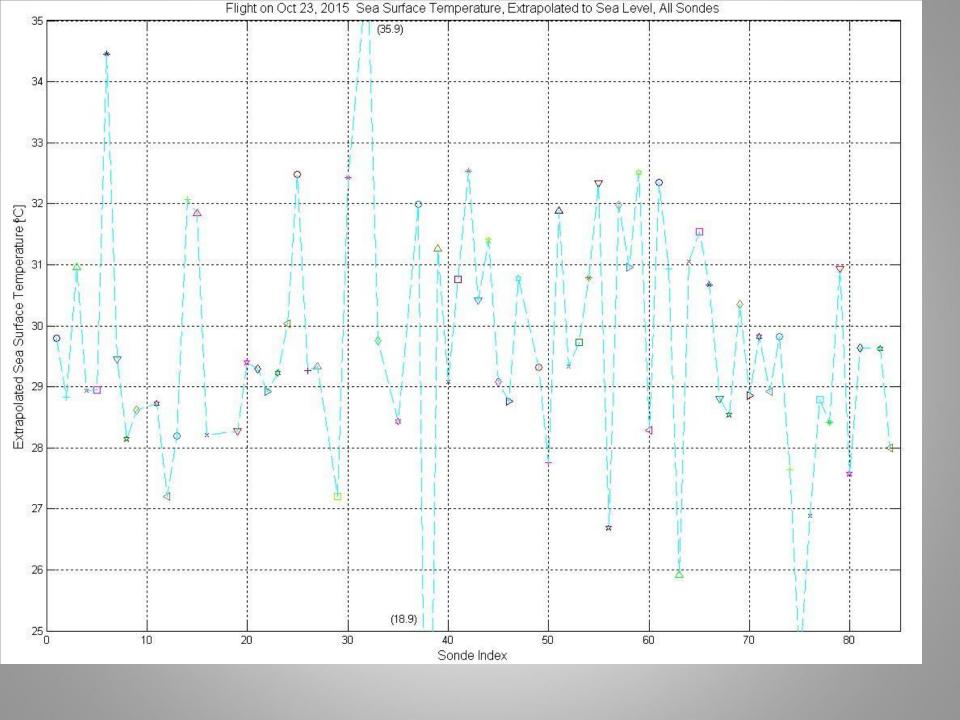




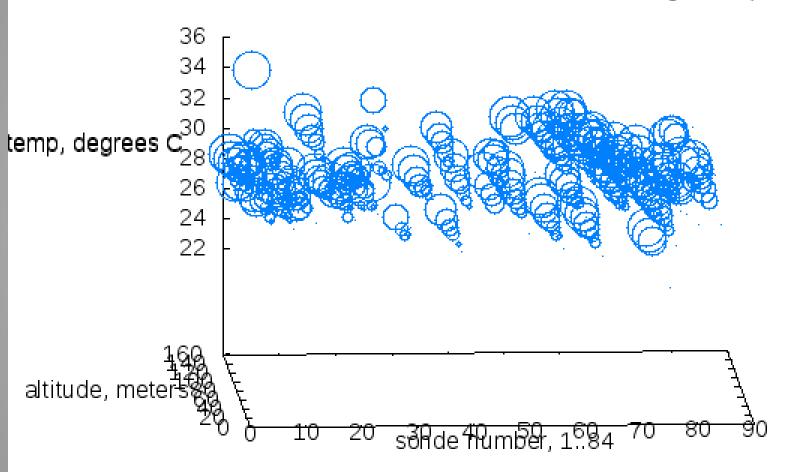




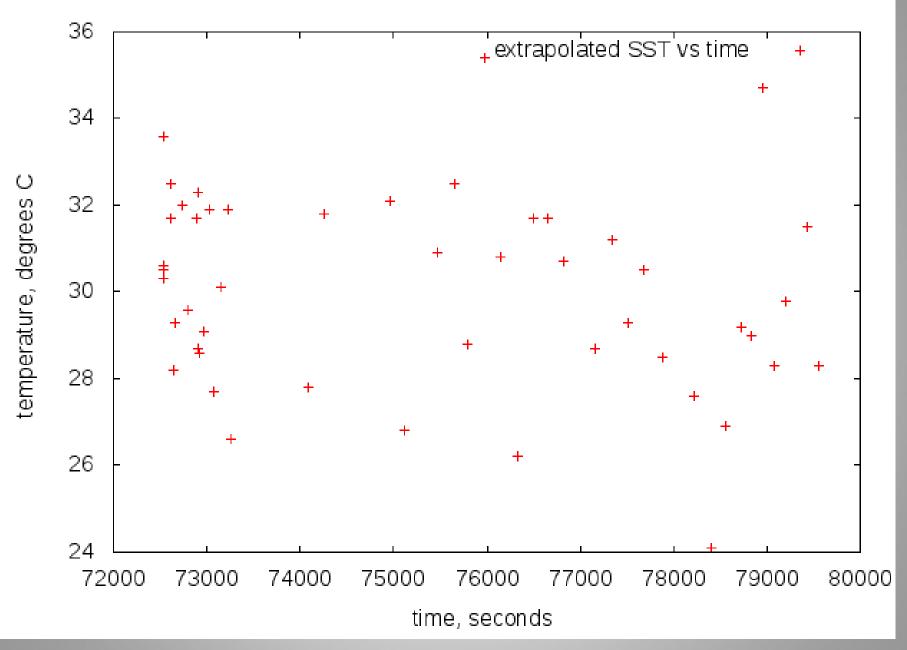




'sst.dat' using 1:3:4:(\$3*.03)



Hurricane Patricia SST data, 10/23/15



Hurricane Patricia SST data, 10/23/15

