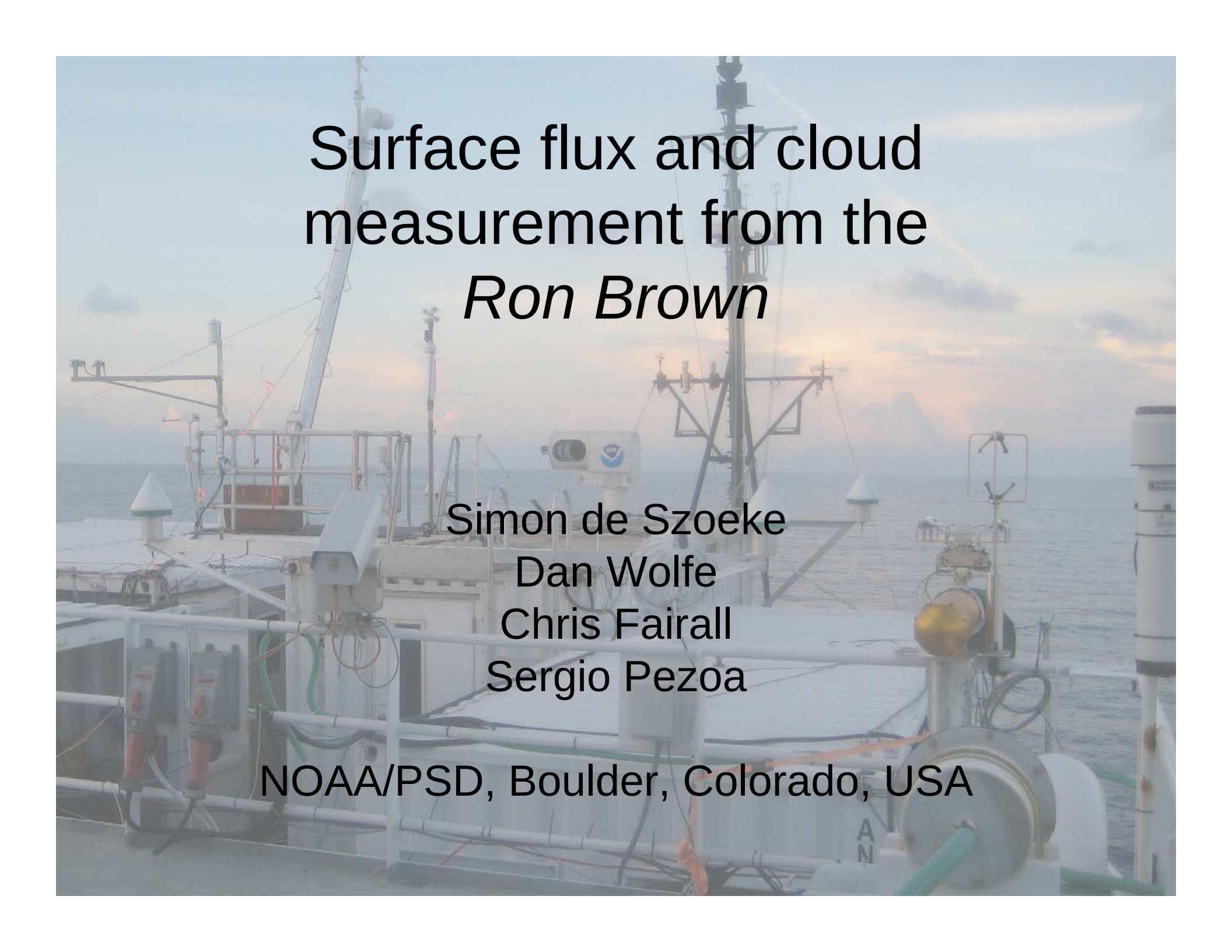




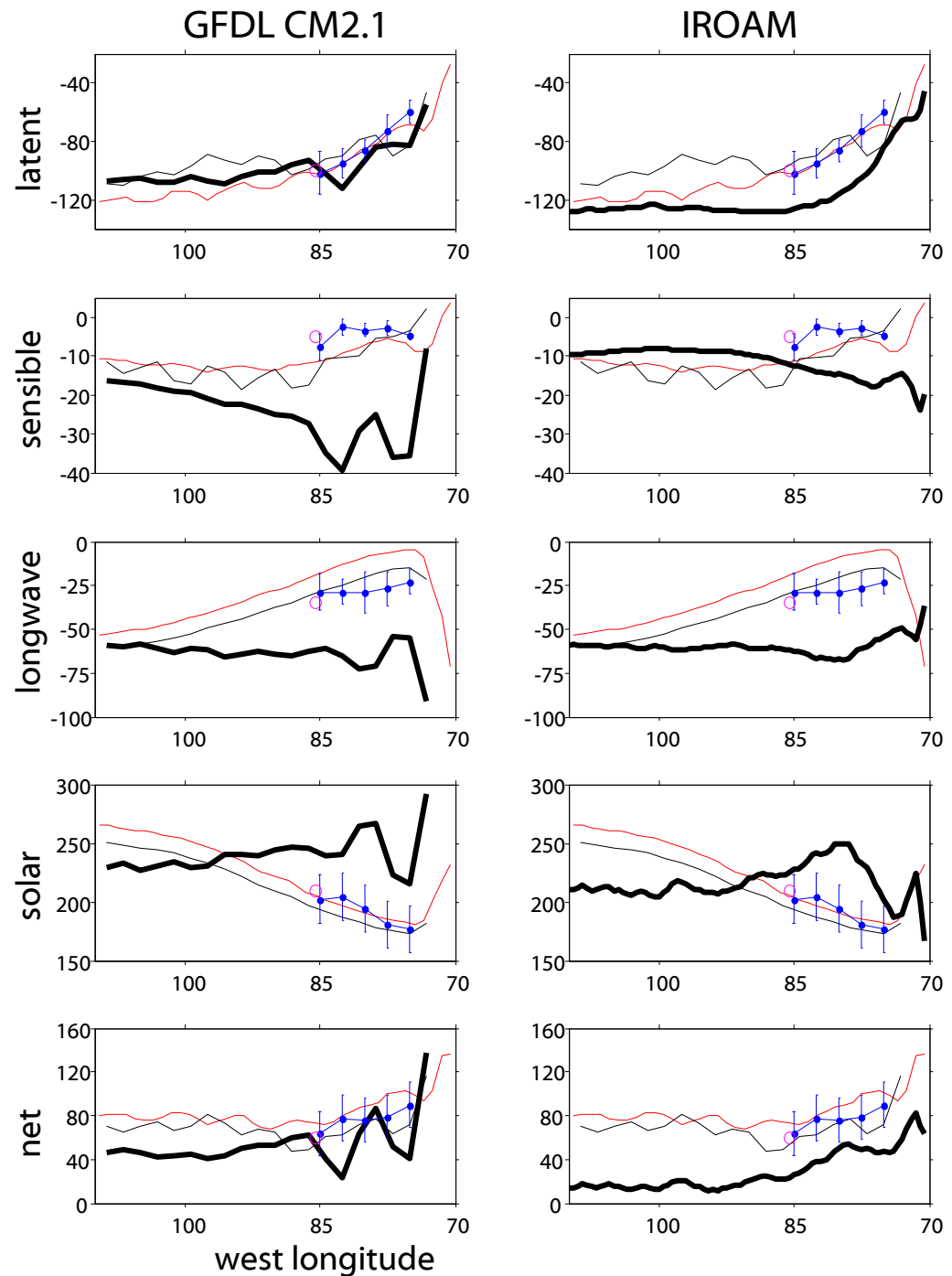
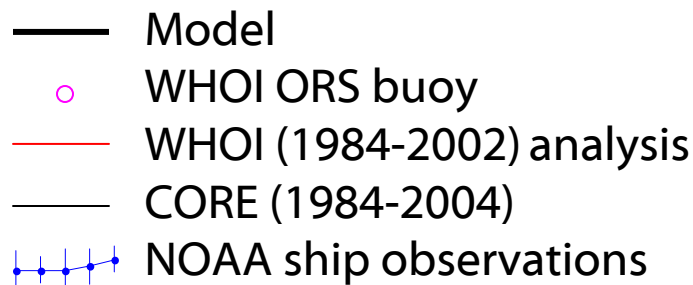
Surface flux and cloud measurement from the *Ron Brown*

Simon de Szoeke
Dan Wolfe
Chris Fairall
Sergio Pezoa

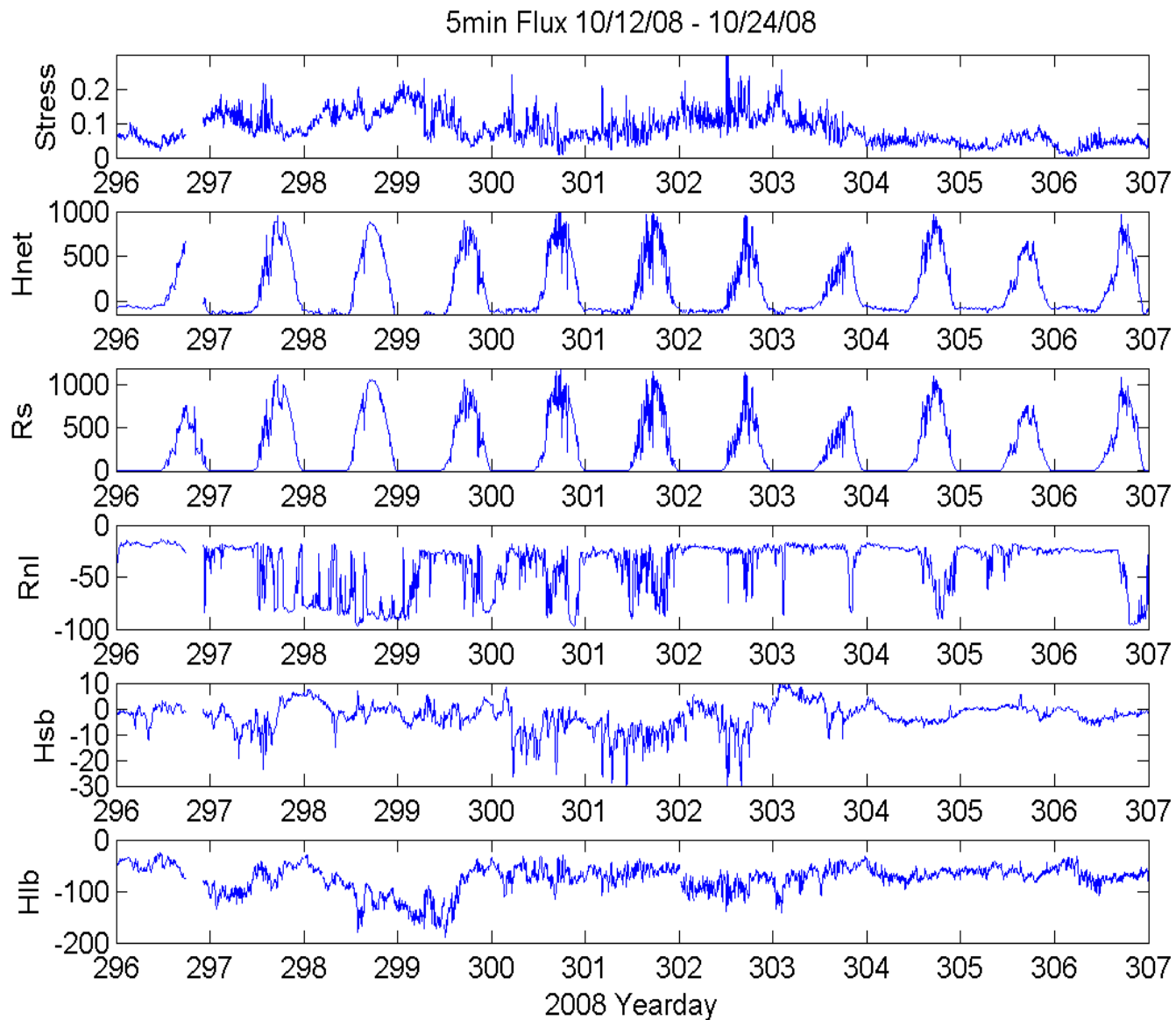
NOAA/PSD, Boulder, Colorado, USA

October heat fluxes at 20°S

- now 7 years of cruises
- assess analyses and models

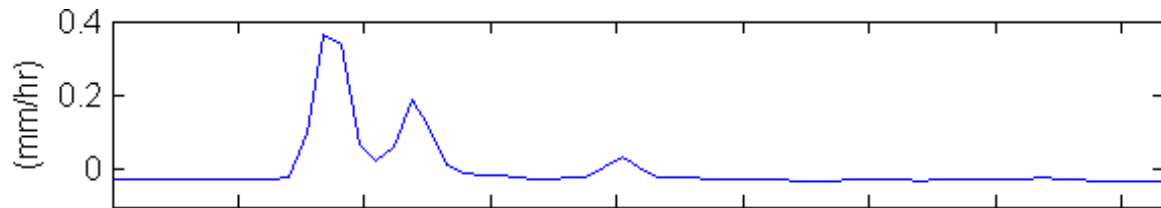


VOCALS surface flux time series

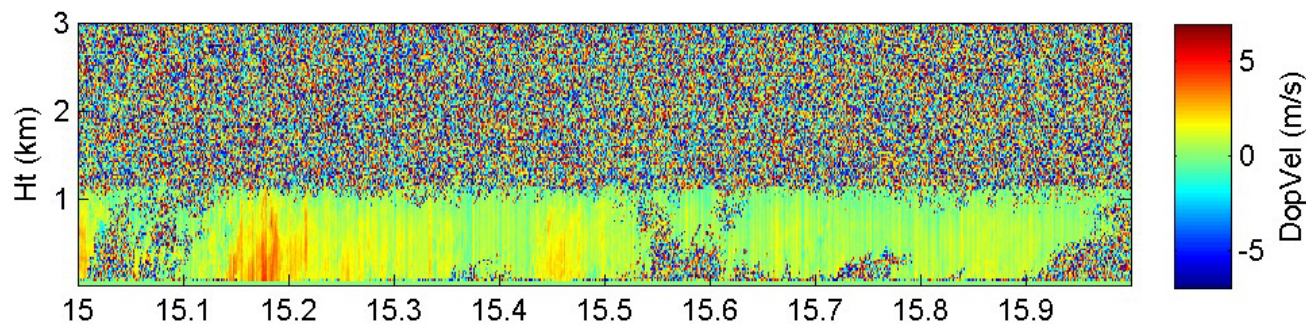
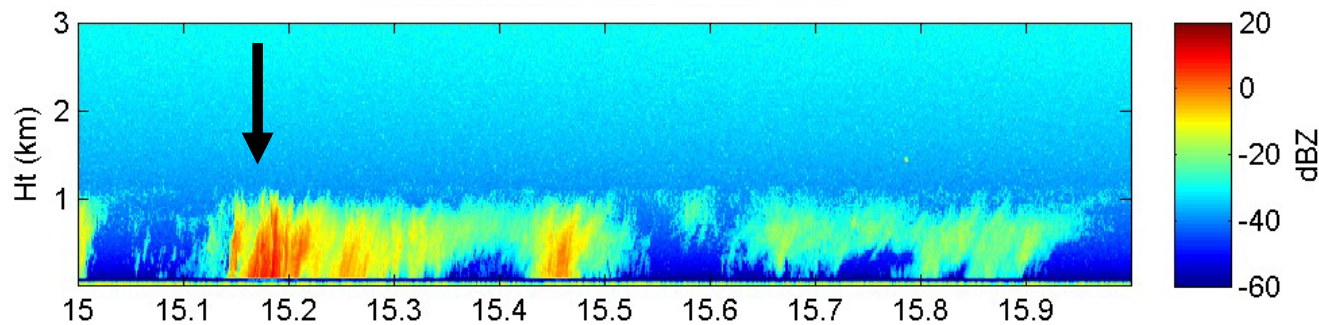


Rain shower with new W-band radar 2008 October 20 11 local (1N, 82W)

PSD optical rain gauge



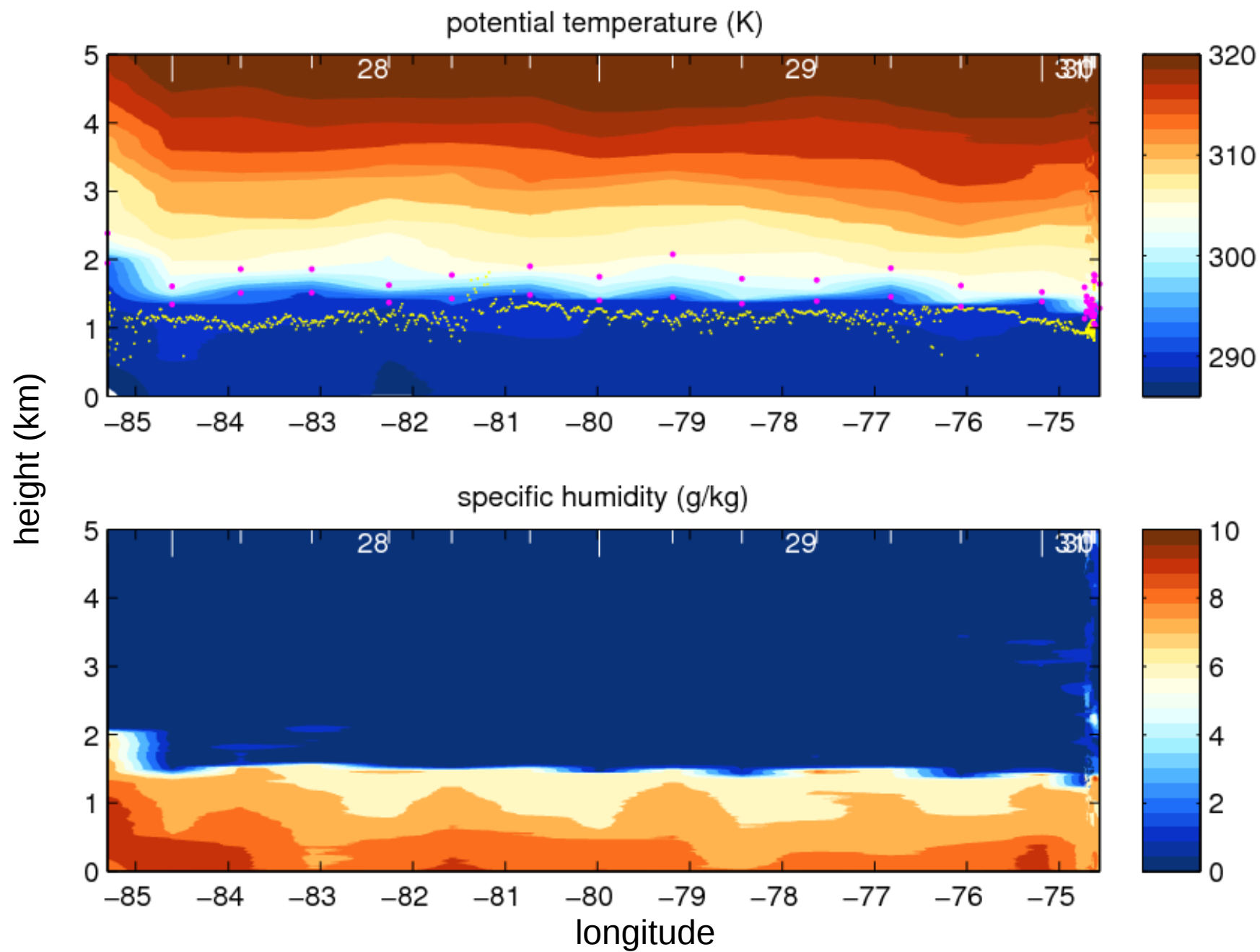
W-band radar reflectivity



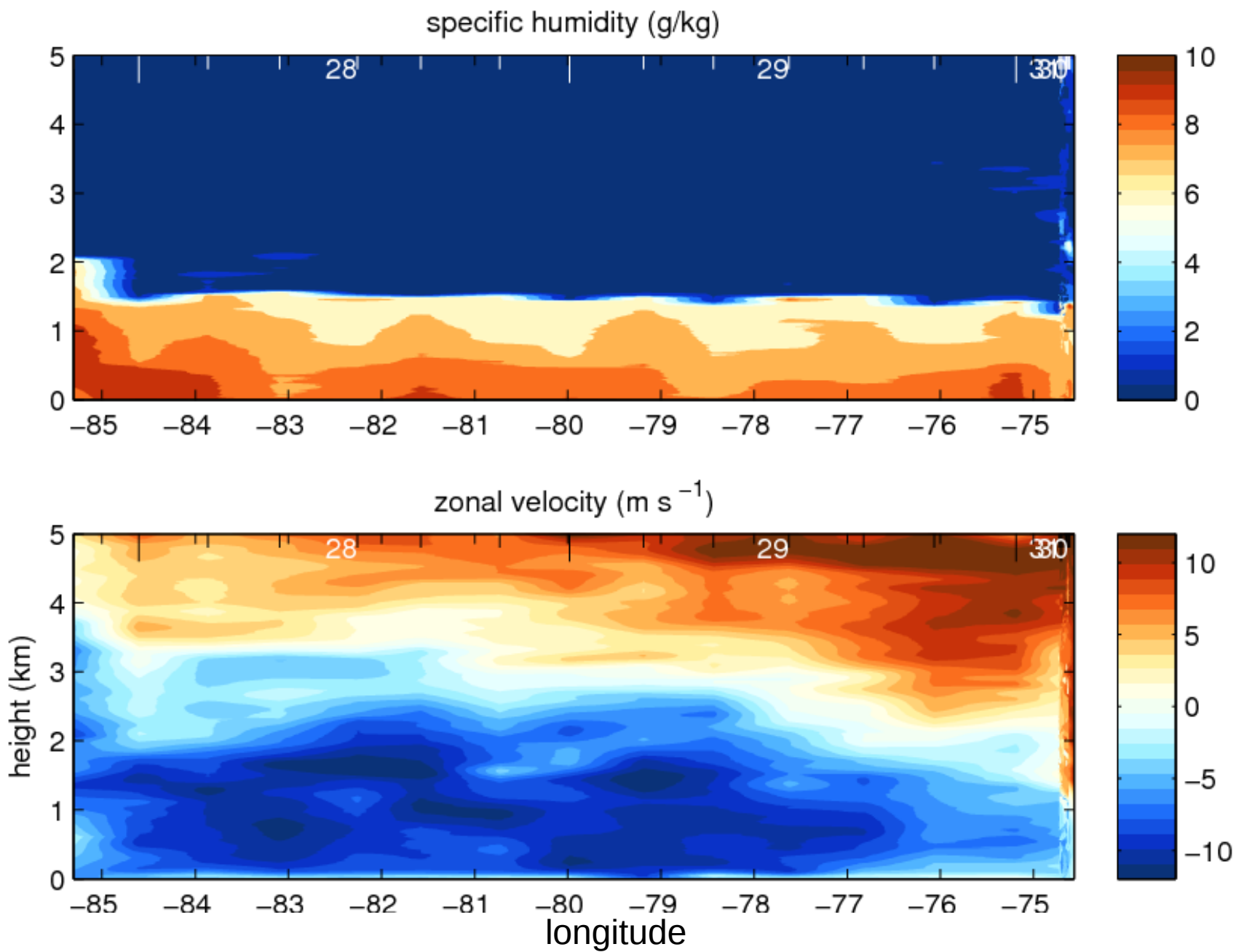
Cloud Imaging Probe
15:11:14 UT



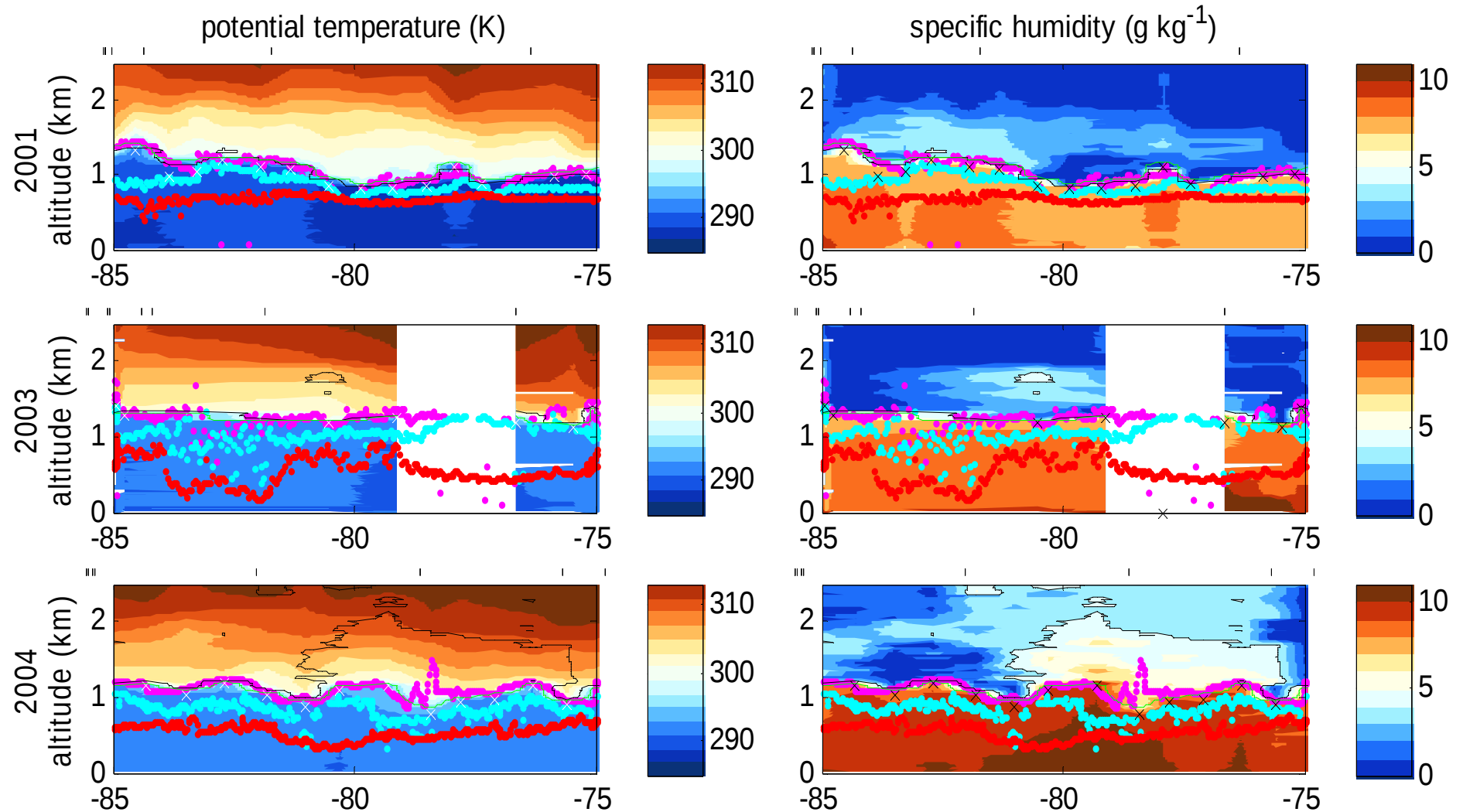
VOCALS 2008 20S section

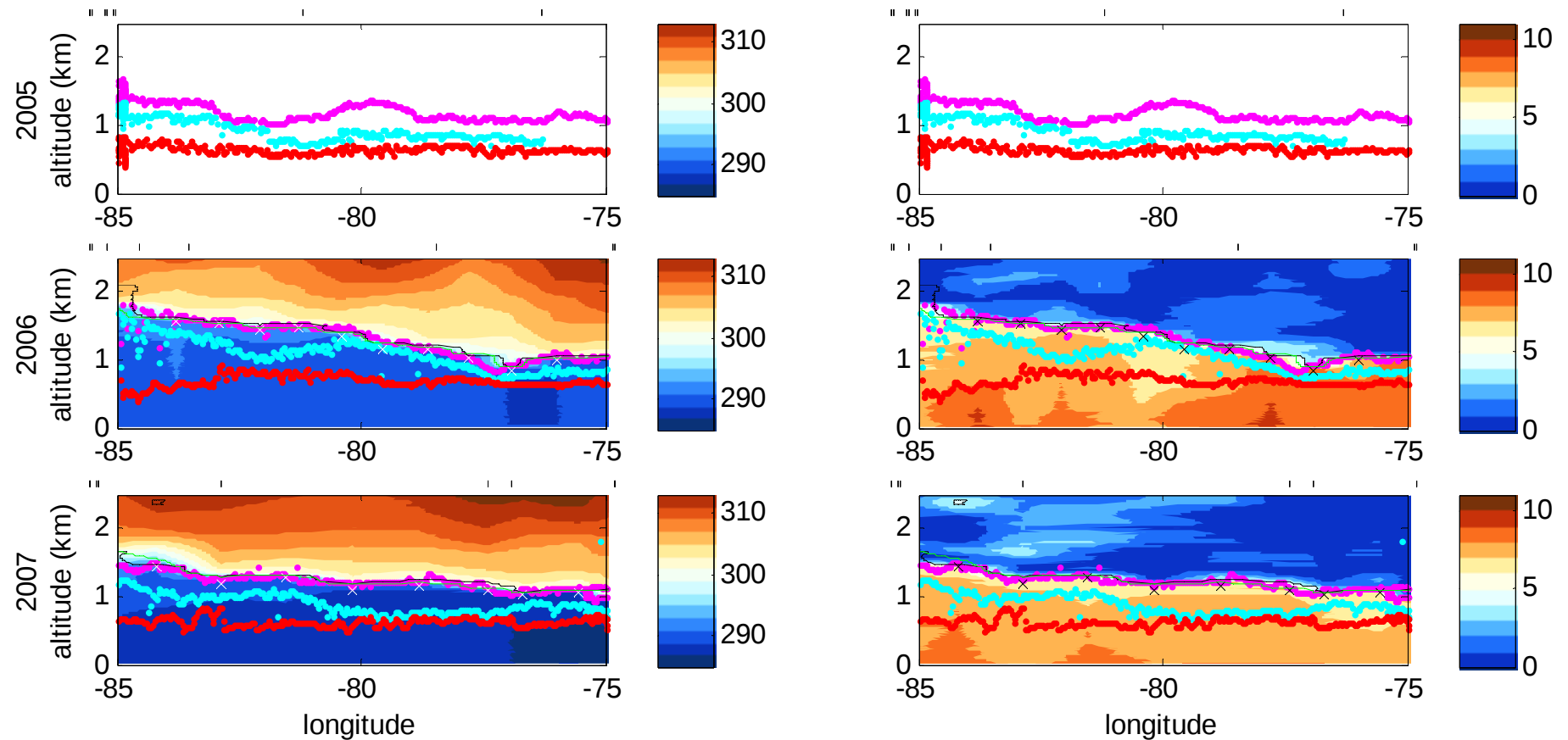


VOCALS 2008 20S section



Potential temperature, humidity, and cloud profiles





PBL height tilted west in 2001, 2005, 2006, 2007;
no tilt in 2003, 2004, 2008.

C-130 85W sections can identify if this is synoptic variability.

Decoupling observed from the ship

