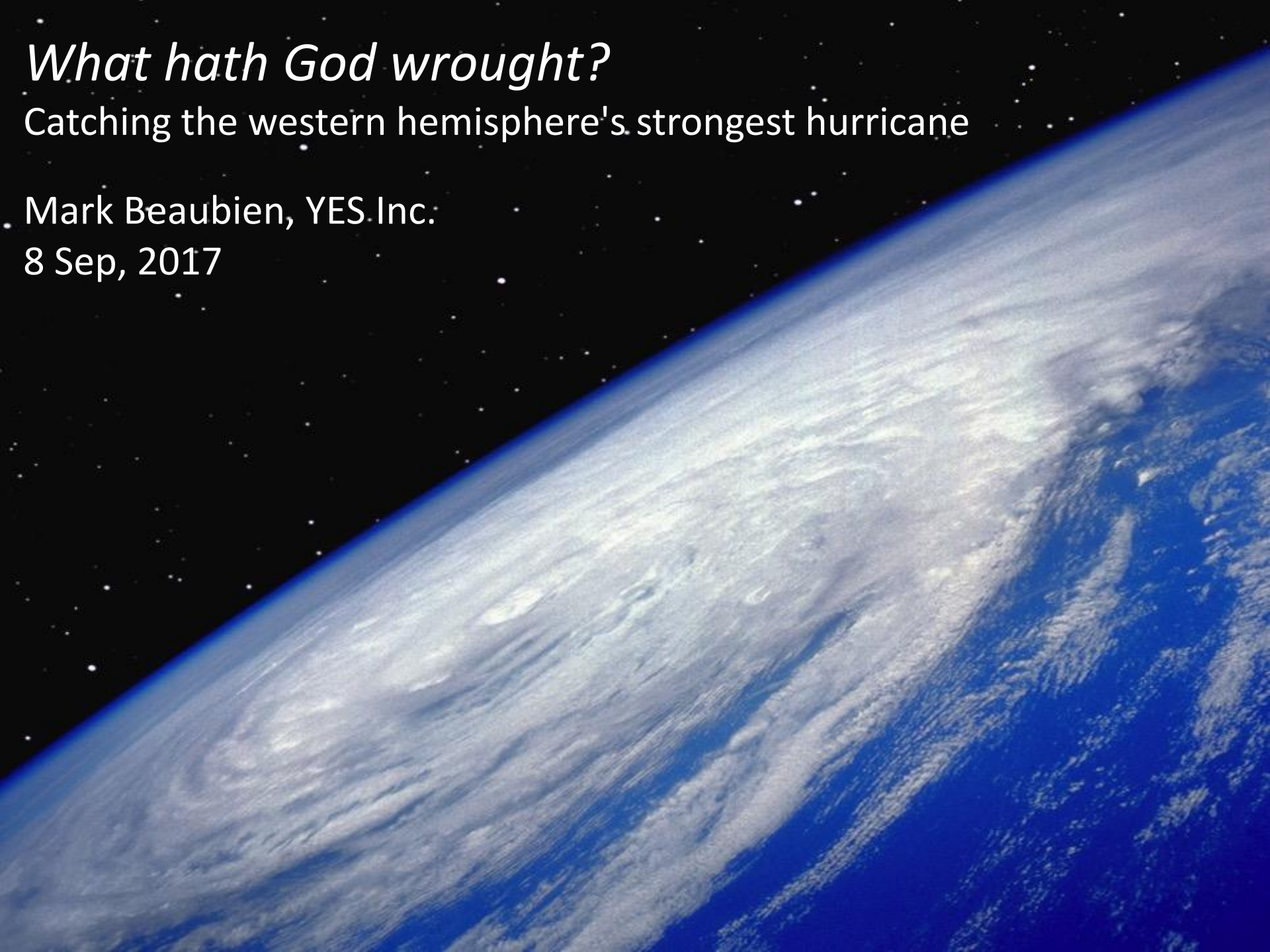


What hath God wrought?

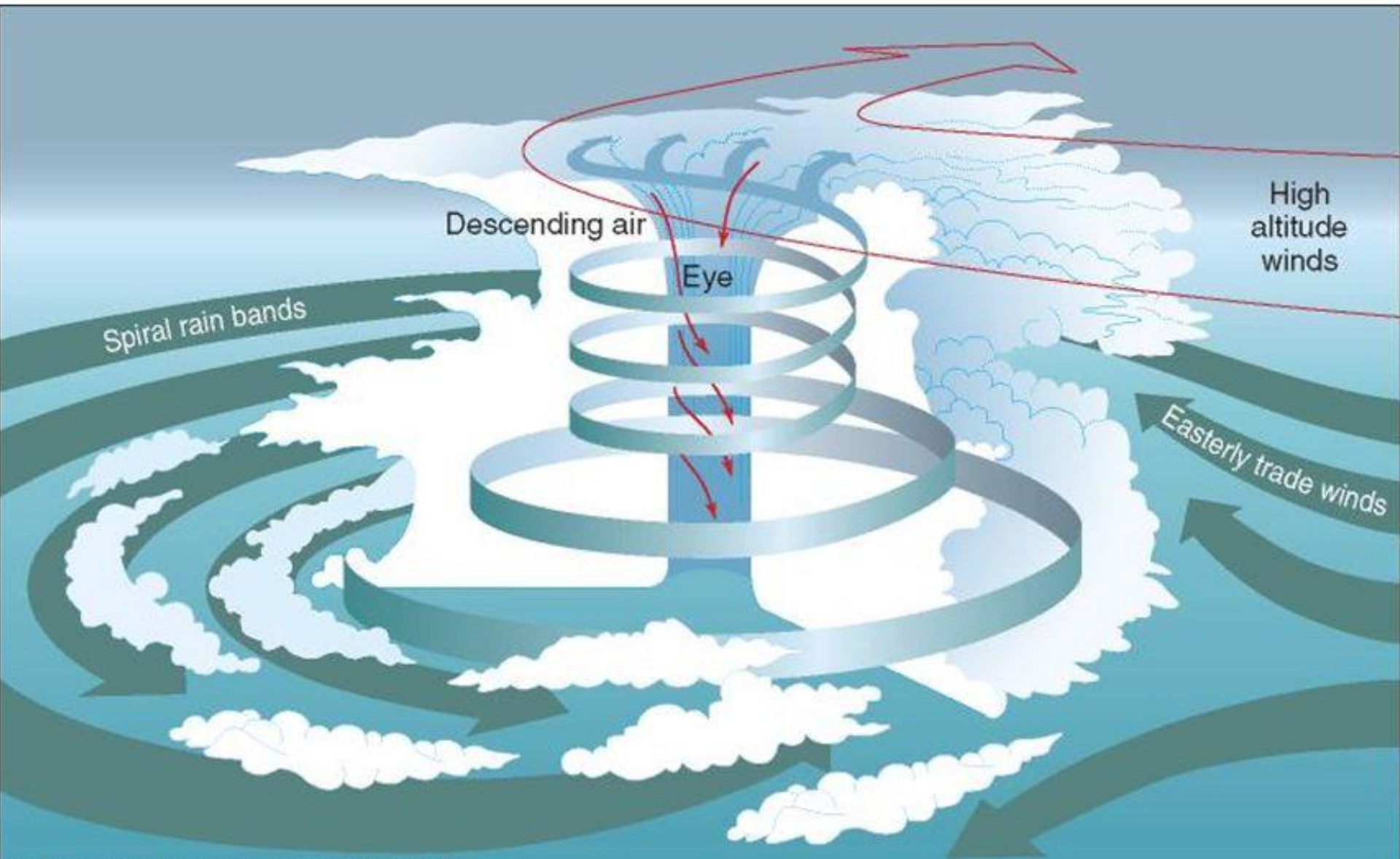
Catching the western hemisphere's strongest hurricane

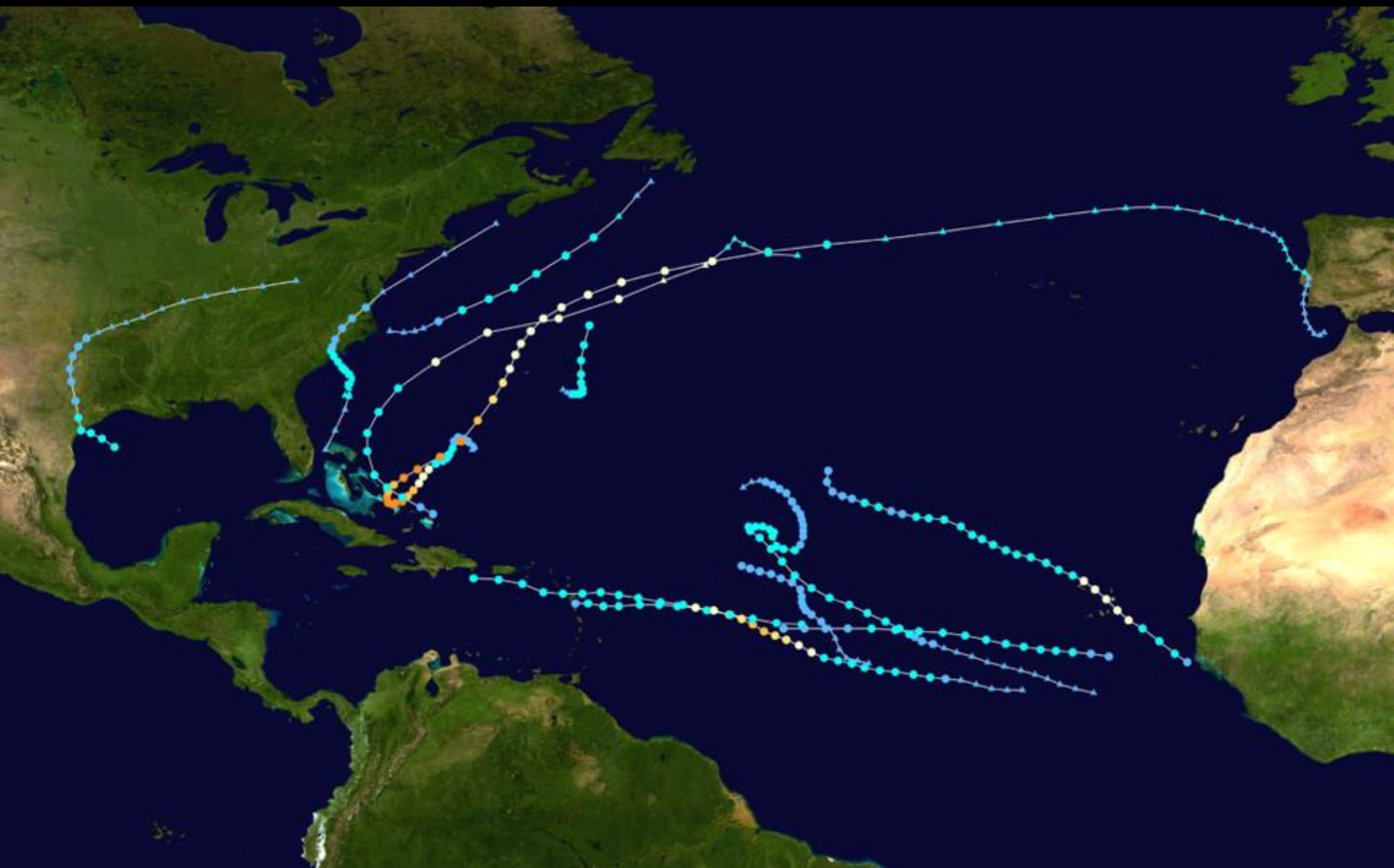
Mark Beaubien, YES Inc.

8 Sep, 2017



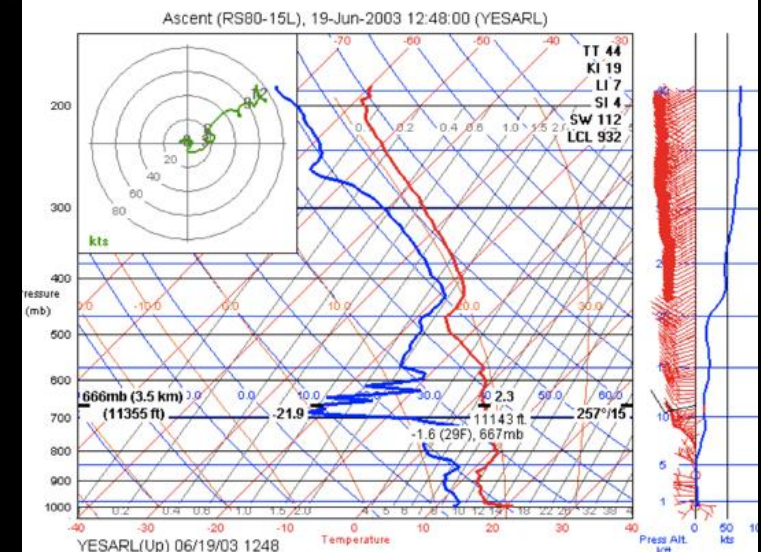
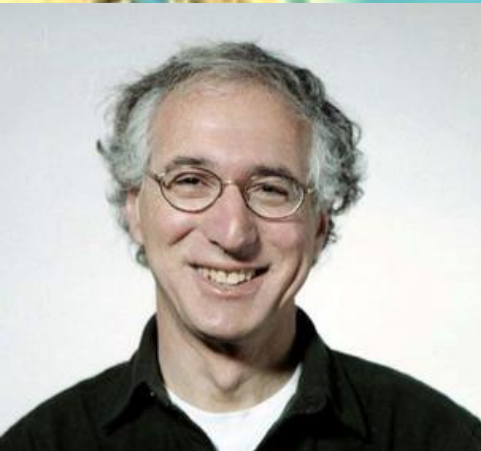
Simplified Hurricane Schematic





TOTO to Dorothy From the Air

(Twister. c.1996 Warner Brothers)



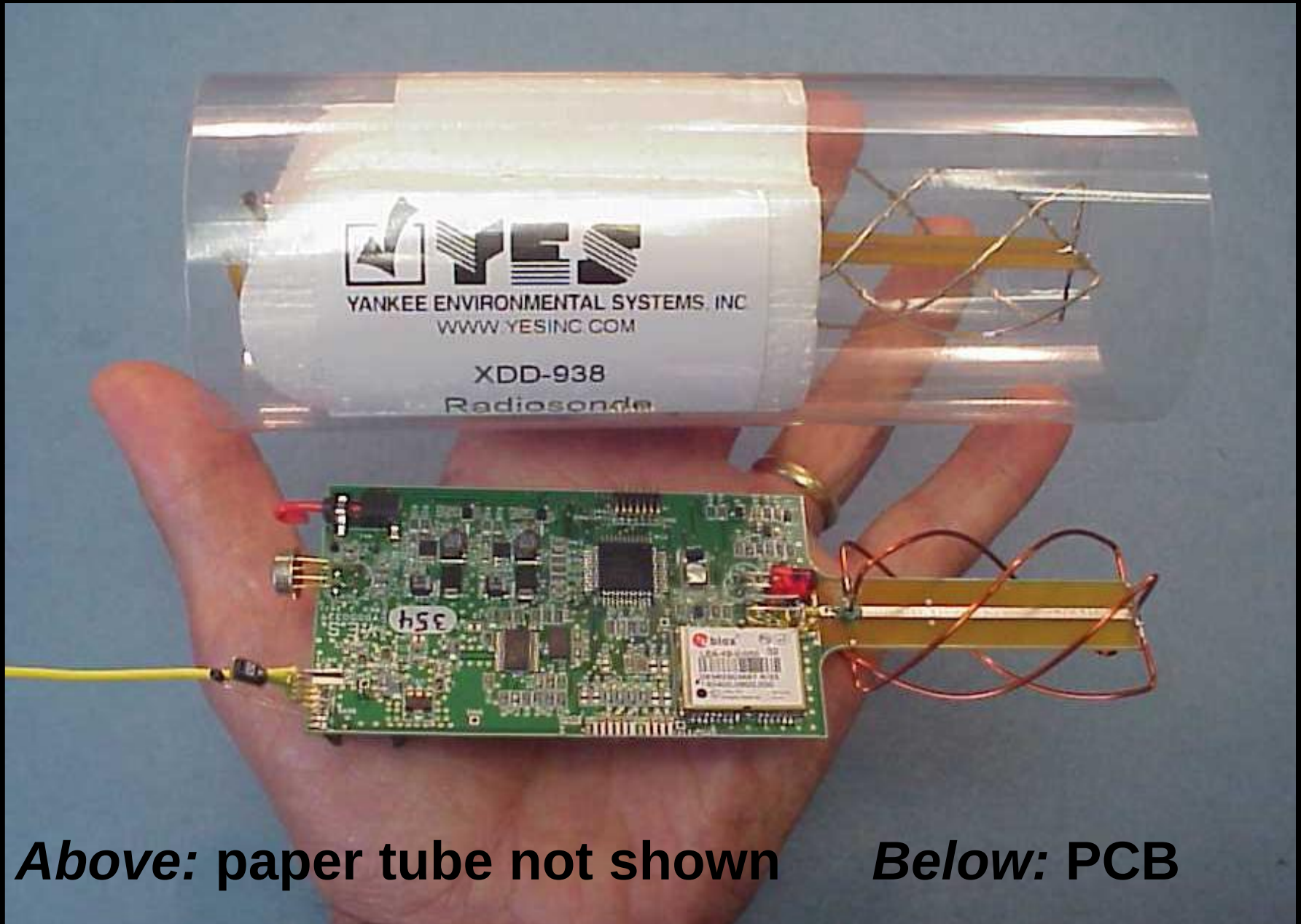
	Get text frame	Reset scale	10mb scale
YESARL(Up) 06/19/03 1248			

View ASCII Data

HD Profiling



56 gram XDD Dropsonde Sensor



Above: paper tube not shown

Below: PCB

Meteorological Probe Aircraft



NASA Global Hawk (UAV)



WP-3 Orion

NOAA Gulfstream



Navy Twin Otter



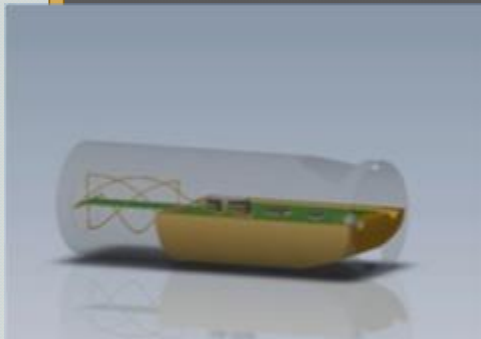
NASA DC-8

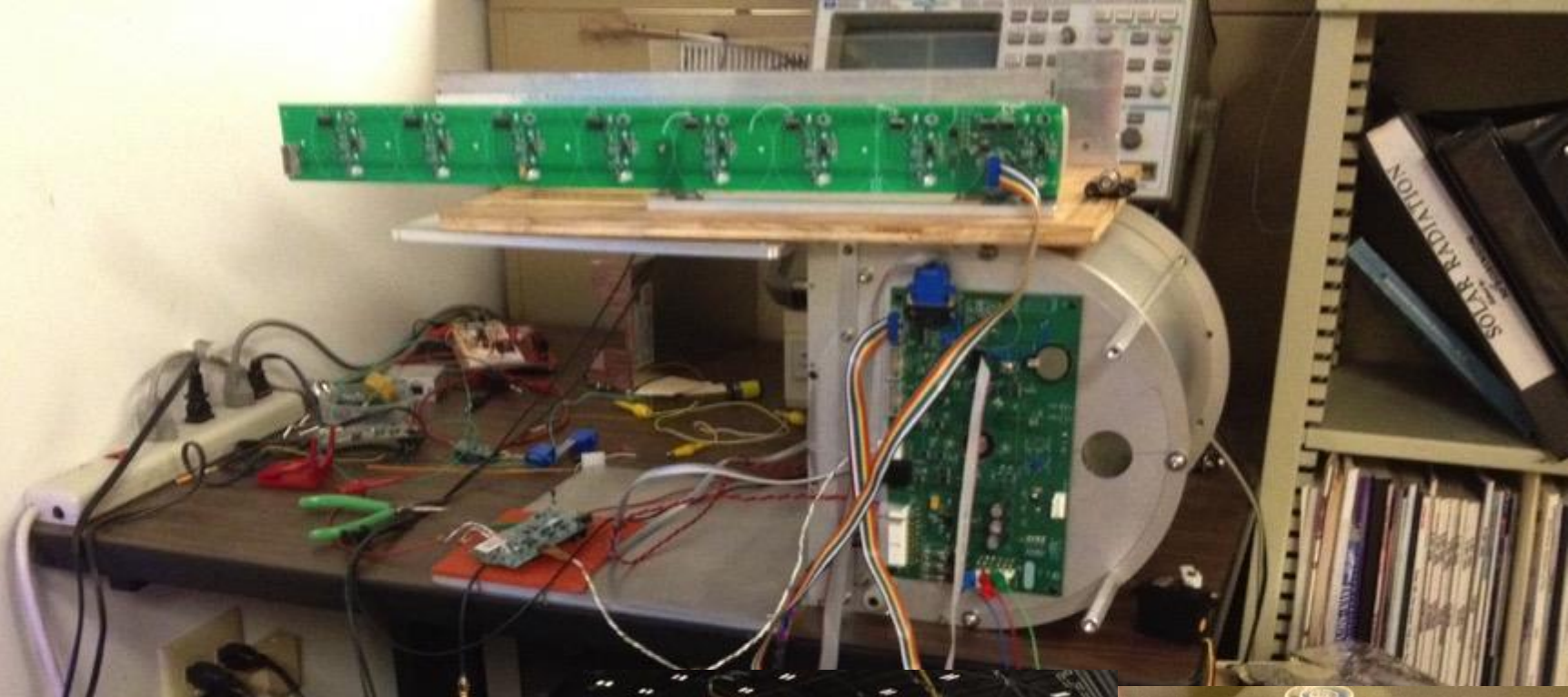


AF C-130

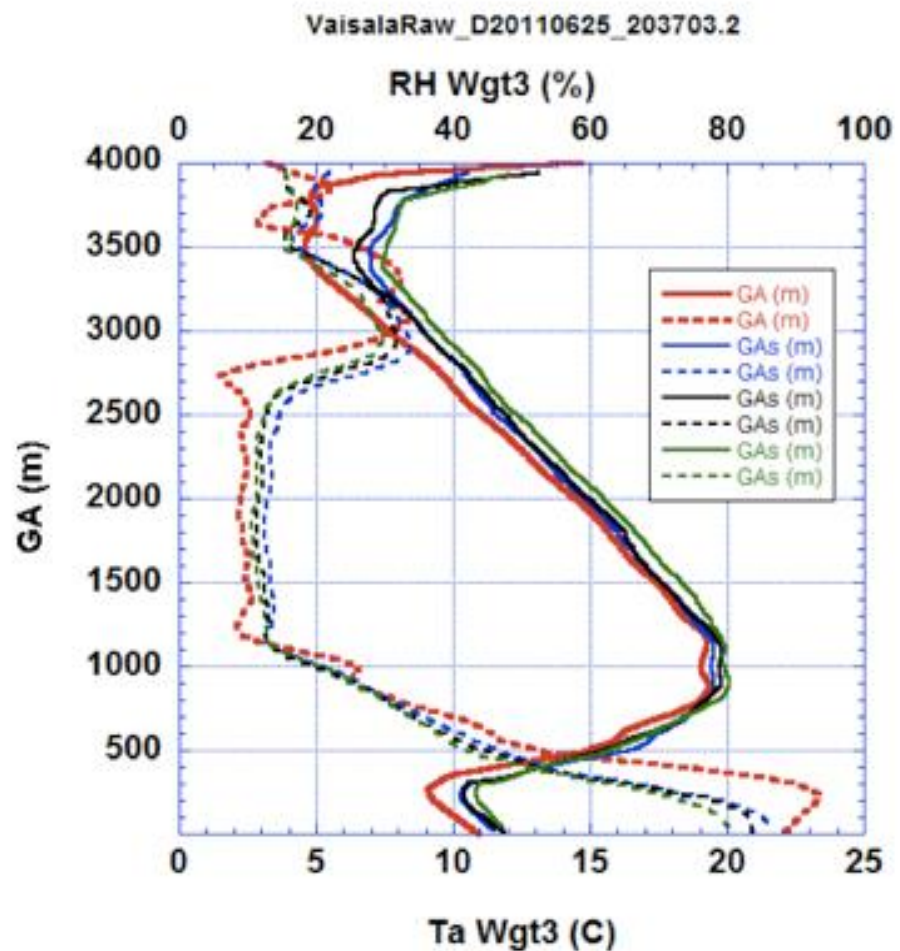
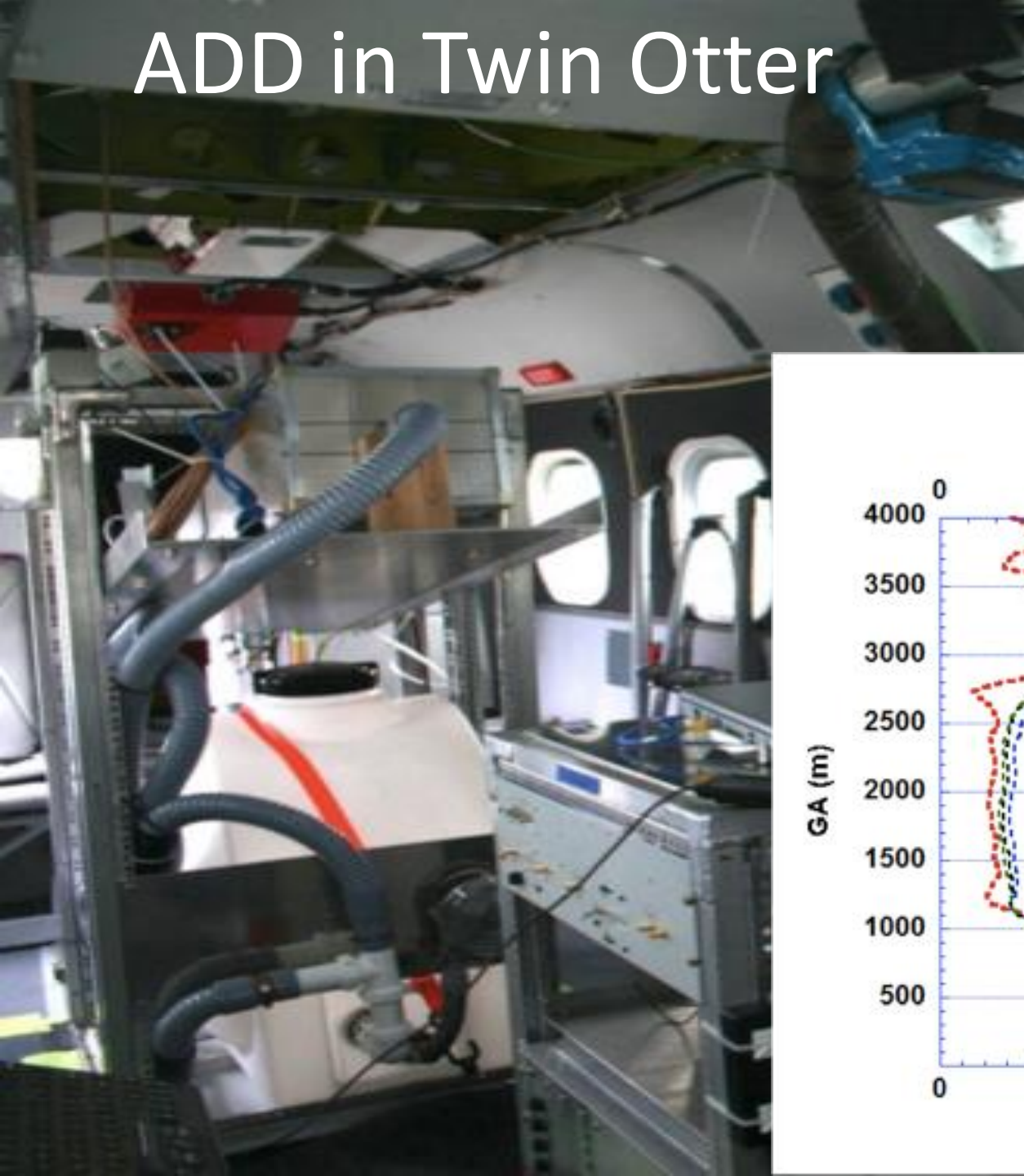
Automated Dropsonde Dispenser

- Rotating drum creates airlock
- 3 “lanes” in magazines hold 42 XDDs
- Exit tube





ADD in Twin Otter



NASA WB-57F

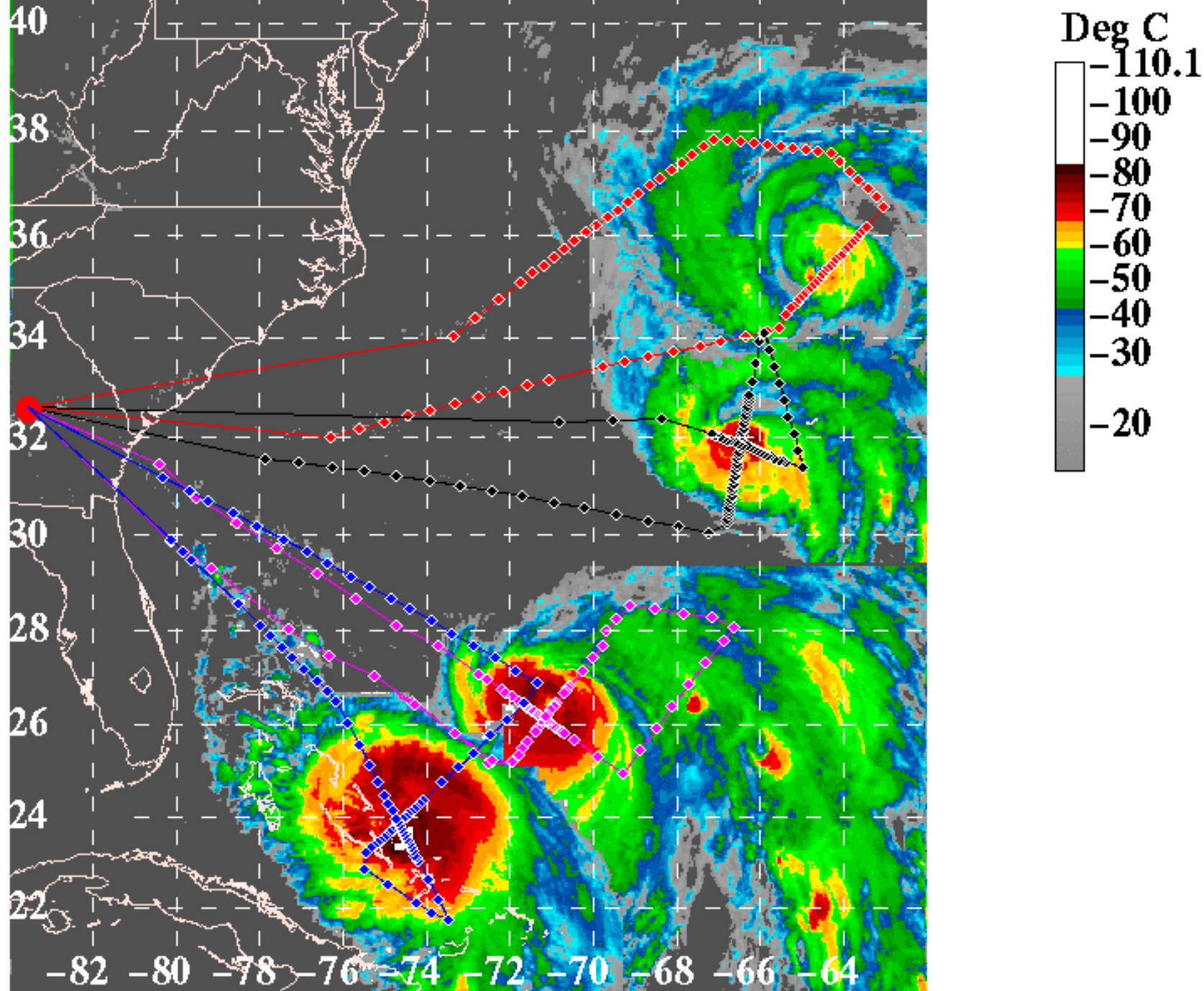




Aug/30/2015 *19:09:44
WB-57 AFT HDSS



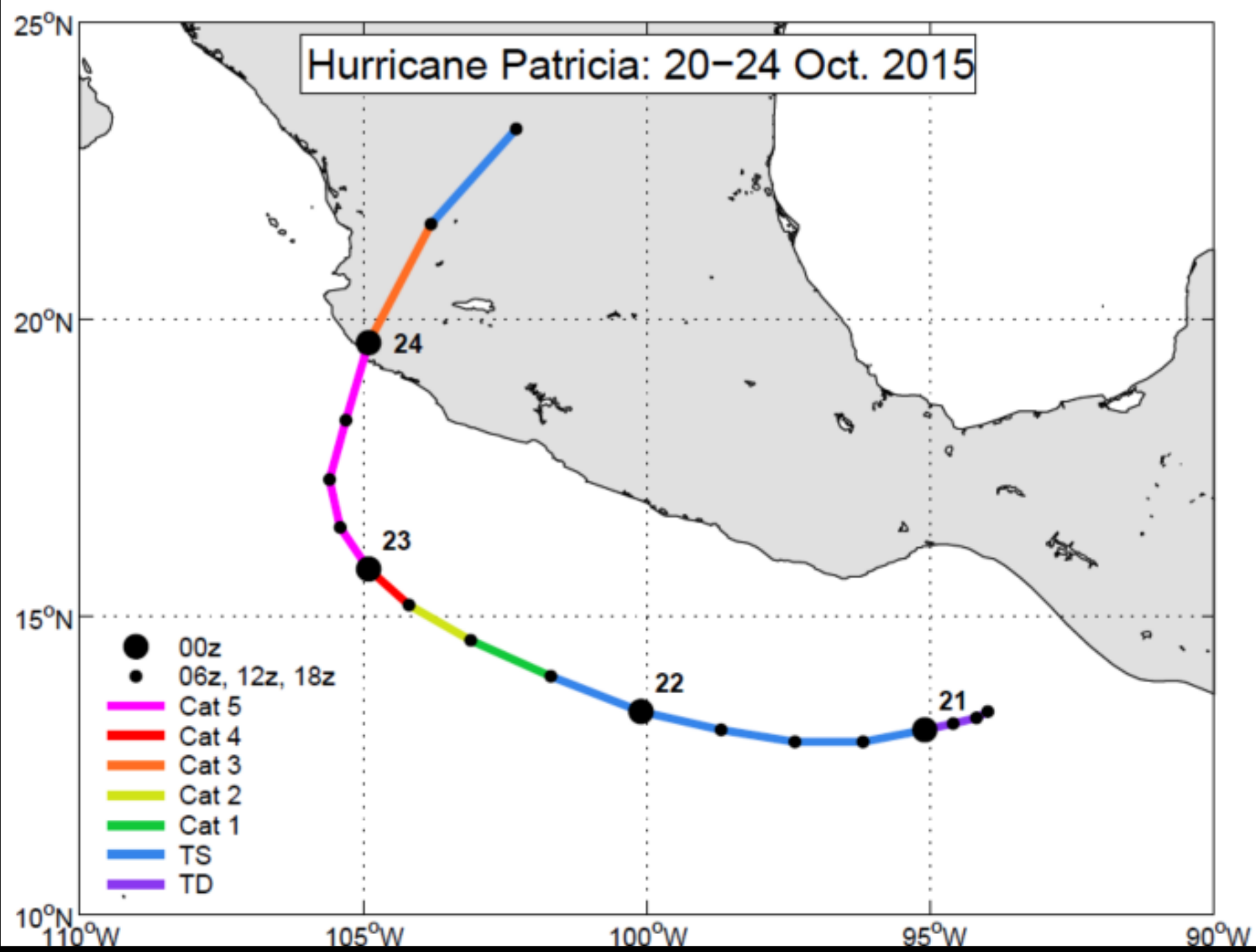


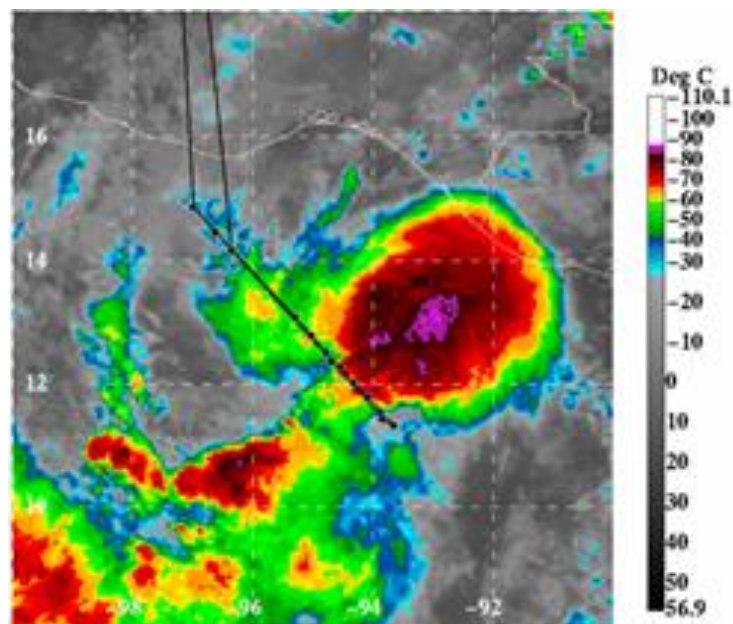


Oct/03/2015 *18:02:39
WB-57 AFT HDSS

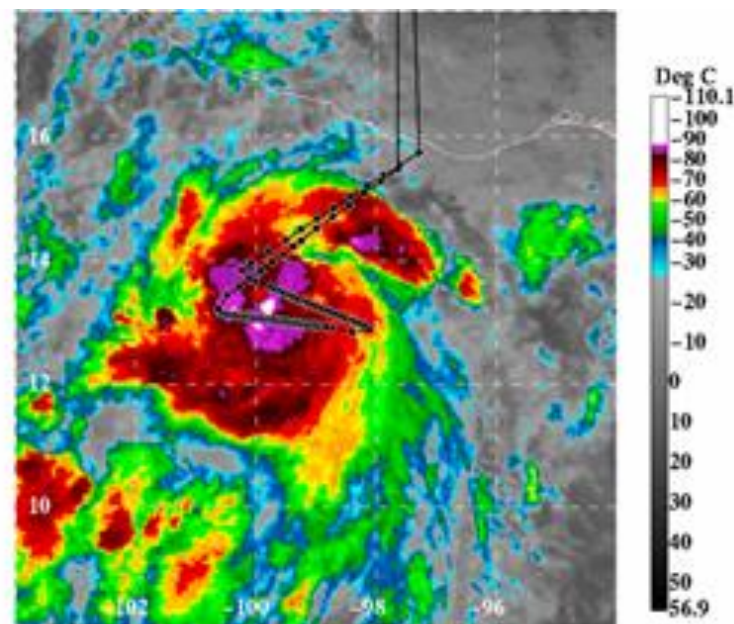


Hurricane Patricia: 20–24 Oct. 2015

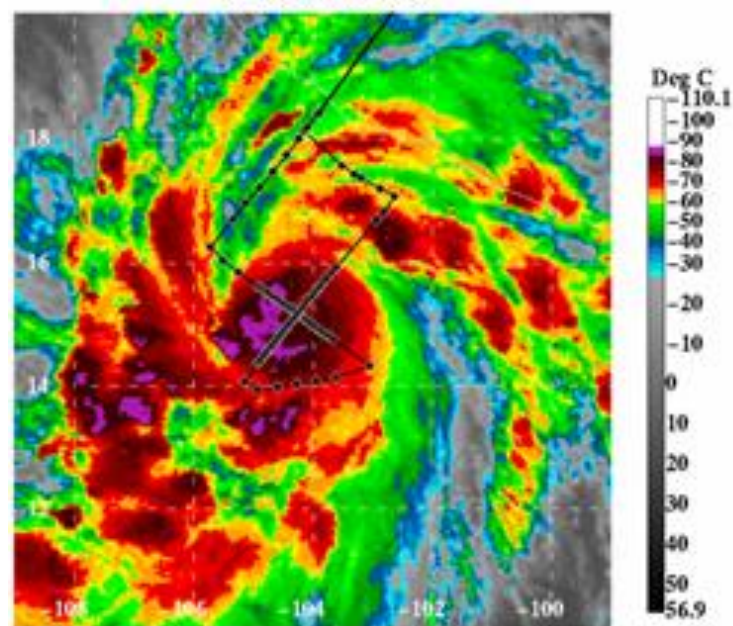




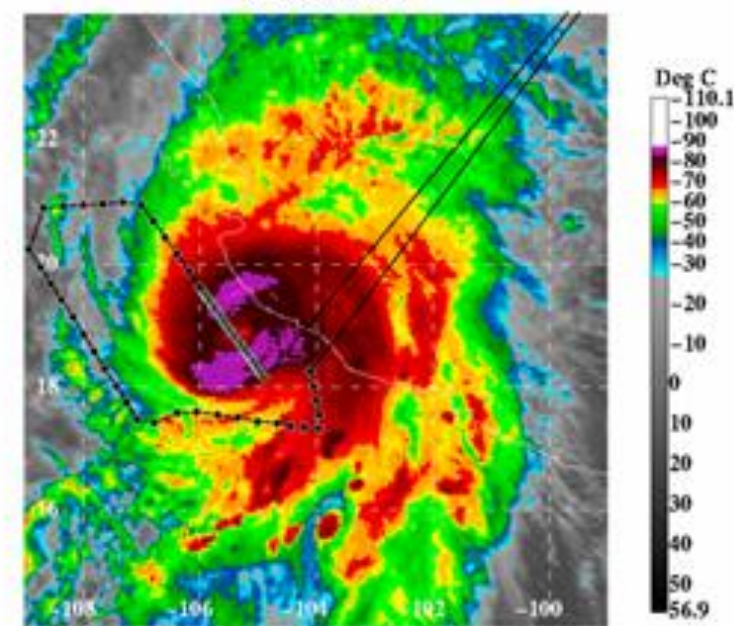
Oct 20



Oct 21

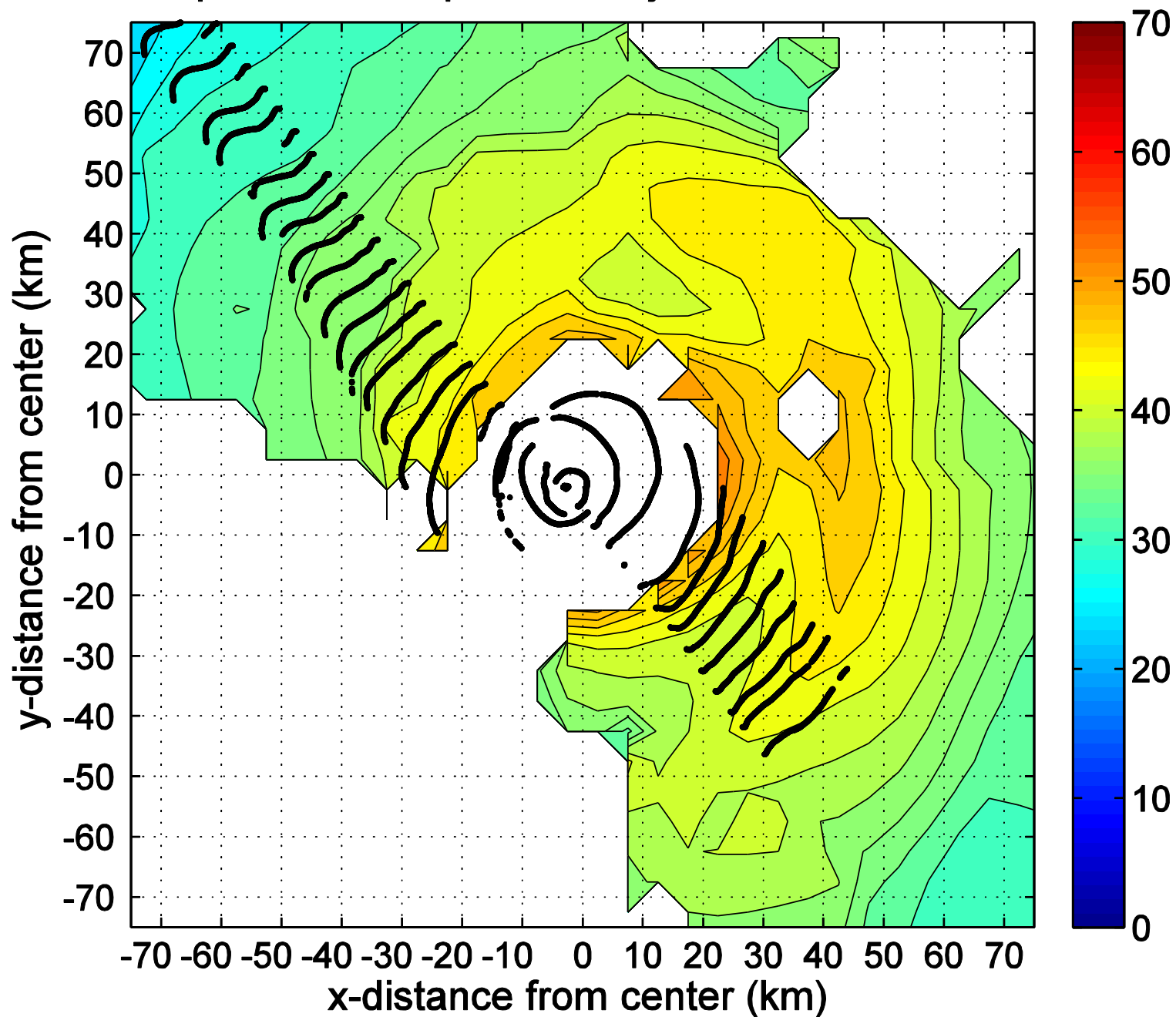


Oct 22



Oct 23

Wind Speed and Dropsonde Trajectories, Patricia 102315



Joaquin and Patricia's eye walls tilted
and precessed ... if synchronized with
the sun's daily motion *this amplifies TC*
storm intensity!

