

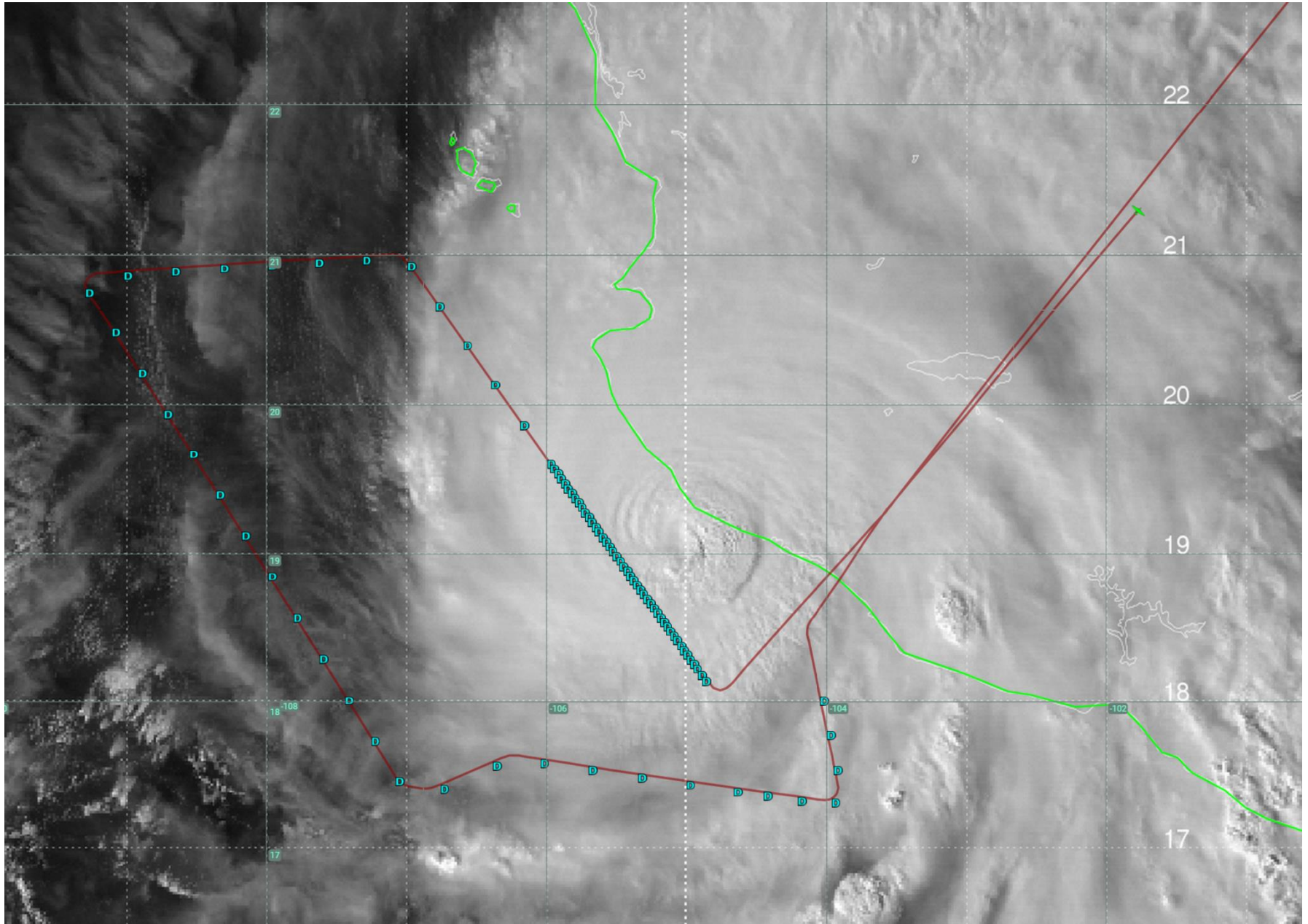
Some Unprecedented Results from TCI



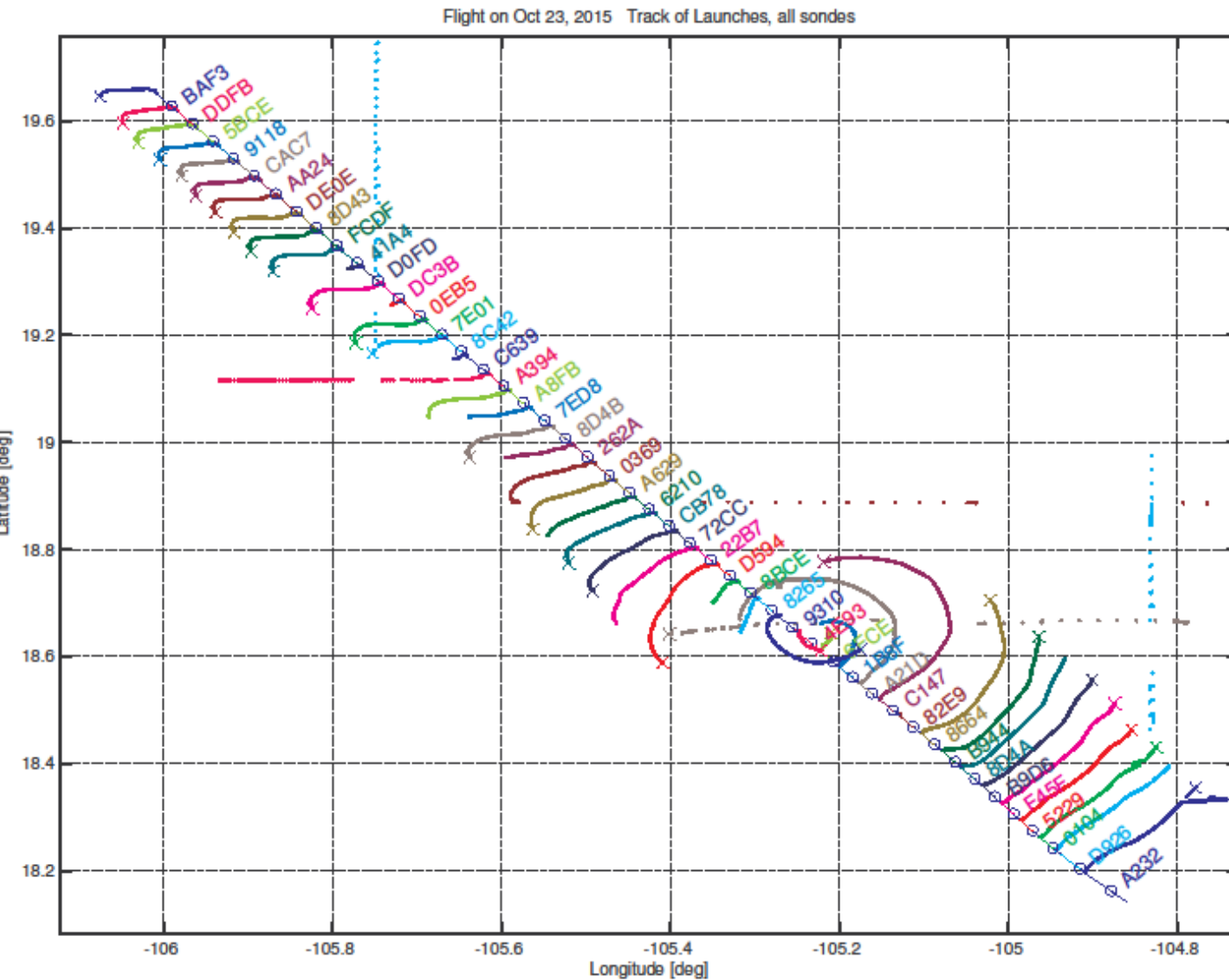
View of Hurricane Patricia from the WB-57 cockpit at 63,000', 10/23/15

Flight track projected over the visible satellite image

Green dots indicate dropsonde release points

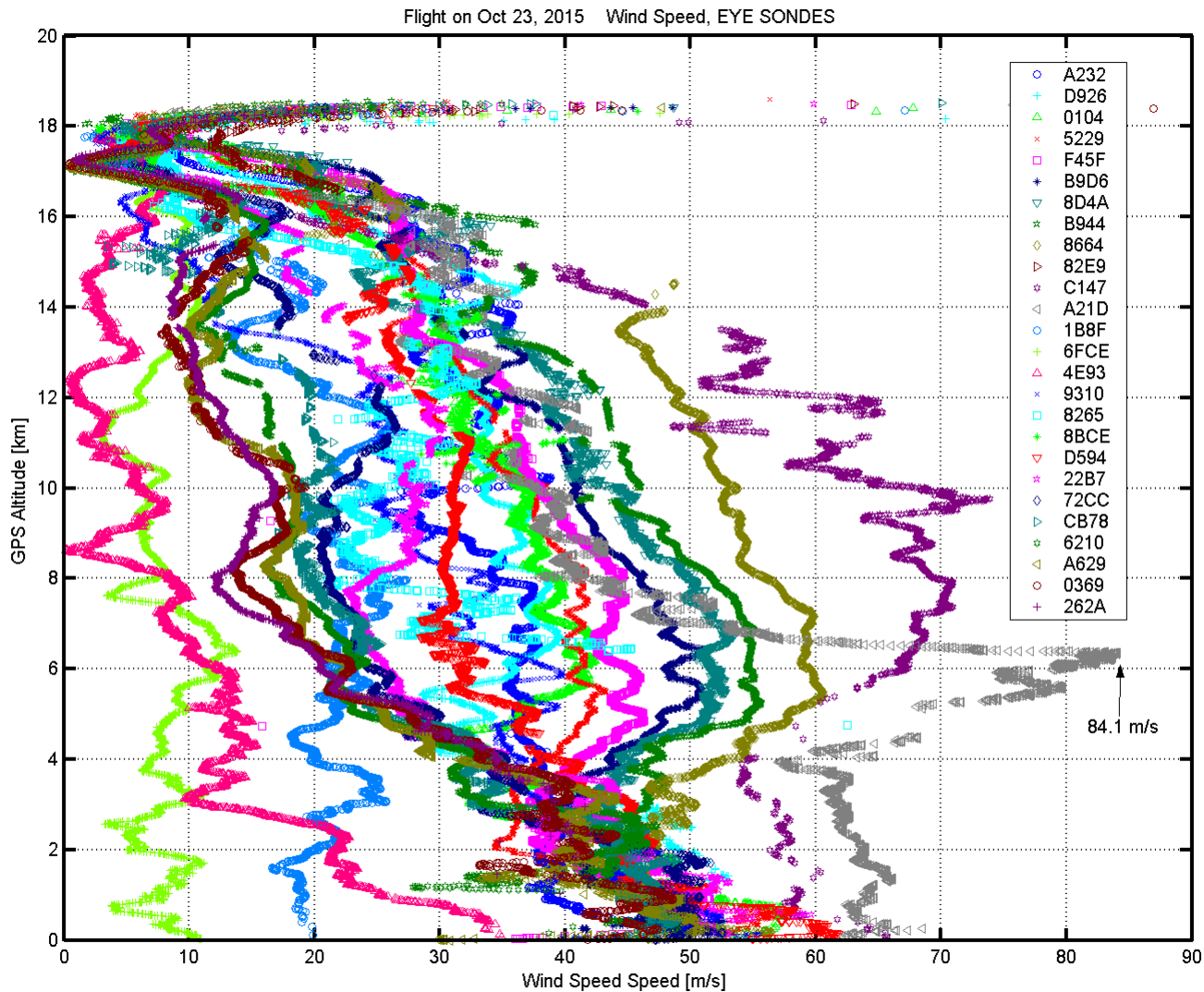


Sonde trajectories during eye crossing



- Some sondes in the NW eyewall did not return complete profiles
- Two sondes in the SE eyewall made almost 180 degree transits around the storm during their ~15 min fall time (note the grey and purple tracks and their corresponding wind profiles on the following slide)

Corresponding wind profiles for sondes during eyewall crossing



- max. windspeed of 84 m/sec (168 kts) observed in the SE eyewall (grey dots)
- the local variations from sonde to sonde are surprising and show small scale variations that have never been observed before