

Doppler Wind Lidar Scientist

Flight ID 20160803I1

Storm 0405 A Earl

DWL Scientist Kelly + Jun

Start Time	Stop Time	Pattern or Az/EI	Notes
—	—	—	to connect VNC: ① \$ sudo ifconfig eno1:1 192.168.3.50 ② \$ ping 192.168.3.50 ③ connect VNC
Sys: 23:46:20 P3: 7:04:41 UTC	00:27:19	dn-20-p3-nadir 01.scn	offset = 3000 P3 HDG = 198° P3 alt = 21600' GPS HDG = -157° } 360-157 = 203° ? pitch/roll verify
Sys: 00:27:50	01:16:01	" "	GPS INS found correct heading → restarted recording HDG = 173° ± 1°
—	—	—	NOTE about heading: P3 & GPS headings match ONLY @ 173°; otherwise within 4-5 deg
01:19:56	—	DN4-UP1-20-P3 01.scn	near time 02:50 → heading jumps back to P3 alt = 3km; offset = 398 } -83° (P3 HDG 277°) pitch/roll verify
—	04:15	" "	near time 03:10 → heading back to (+) units
04:17:40	04:22	dn-20-p3-nadir 01.scn	P3 alt = 6.5 km / stopped recording to try new offsets offset = 3000 bc not many returns; signal came back
04:31	—	" "	P3 alt = 7.2 km / restarted recording offset = 3000
—	—	" "	* at EI = -110 & -107, strange signal at (+) end of freq. AZ = 0 (on the right: bright red straight to ground)
—	05:01	" "	* very weak signal for this set of data (white/light red spectral estimate)
05:06:36	—	" "	increased offset to 4000 (account for azimuth/ei)
06:00 (131730 UTC) - (132230 UTC)	—	" "	~5 min level straight leg over Everglades
—	06:10	" "	
—	—	—	
—	—	—	* get P3 NAV data *

offset (reference) = 398.4

22:52 (GUI)

6:10 UTC (computer)