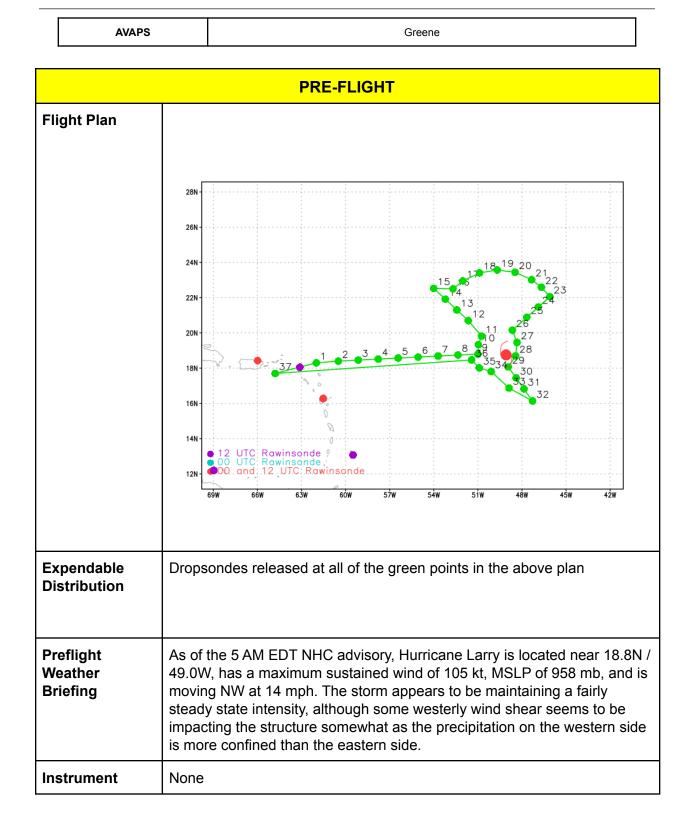
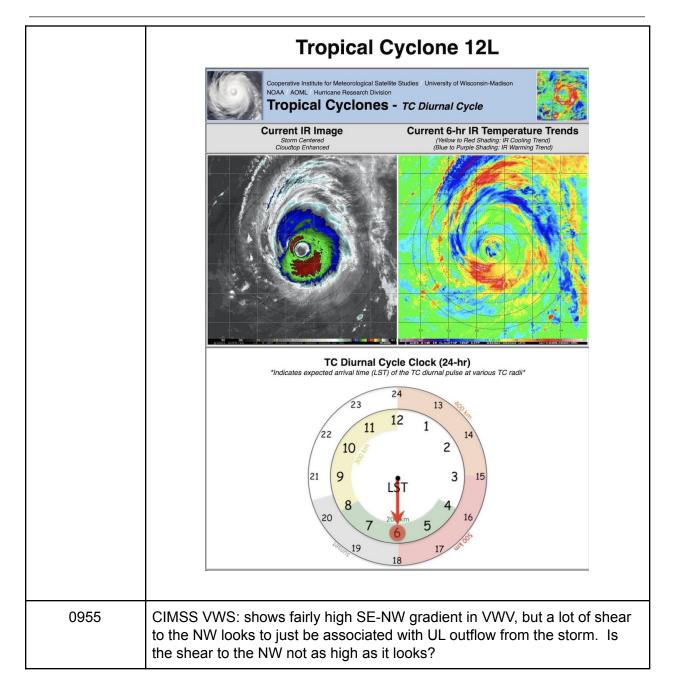
MISSION PLAN					
FLIGHT ID	20210905N1	STORM	AL12 / LARRY		
MISSION ID	WA12A	TAIL NUMBER	NOAA49		
TASKING	HRD	PLANNED PATTERN	Survey + Circumnav		
MISSION SUMMARY					
TAKEOFF [UTC]	0851	LANDING [UTC]	1604		
TAKEOFF LOCATION	St. Croix	LANDING LOCATION	St. Croix		
FLIGHT TIME	7.2	BLOCK TIME	7.4		
TOTAL REAL-TIME RADAR ANALYSES (Transmitted)	3 (3)	TOTAL DROPSONDES (Good/Transmitted)	38 (36/36)		
OCEAN EXPENDABLES (Type)	None	sUAS (Type)	None		
APHEX EXPERIMENTS / MODULES	Mature Stage Experiment: TC Diurnal Cycle				
HRD CREW MANIFEST					
LPS ONBOARD	None	LPS GROUND	Dunion, O'Neill, Wing		
TDR ONBOARD	None	TDR GROUND	Reasor, Gamache		
ASPEN ONBOARD	Parrish	ASPEN GROUND	None		
NESDIS SCIENTISTS	None				
GUESTS (Affiliation)	None				
AOC CREW MANIFEST					
PILOTS	Mansour, Varwig				
NAVIGATOR	None				
FLIGHT ENGINEERS	None				
FLIGHT DIRECTOR	Kalen, Parrish				
DATA TECHNICIAN	Defeo				

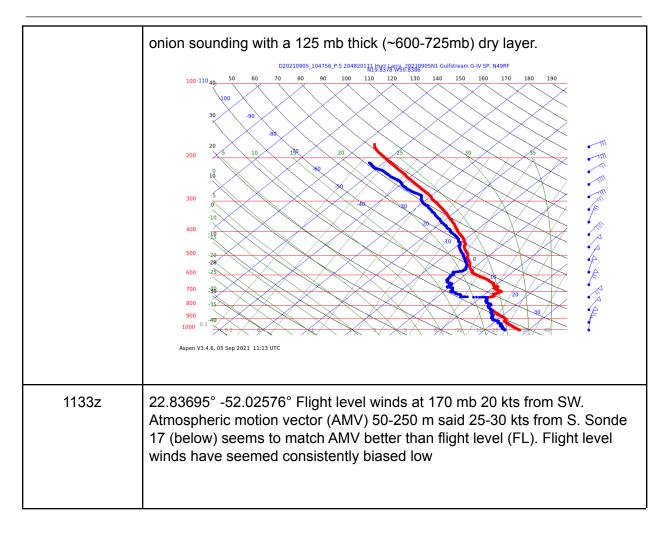


Notes	

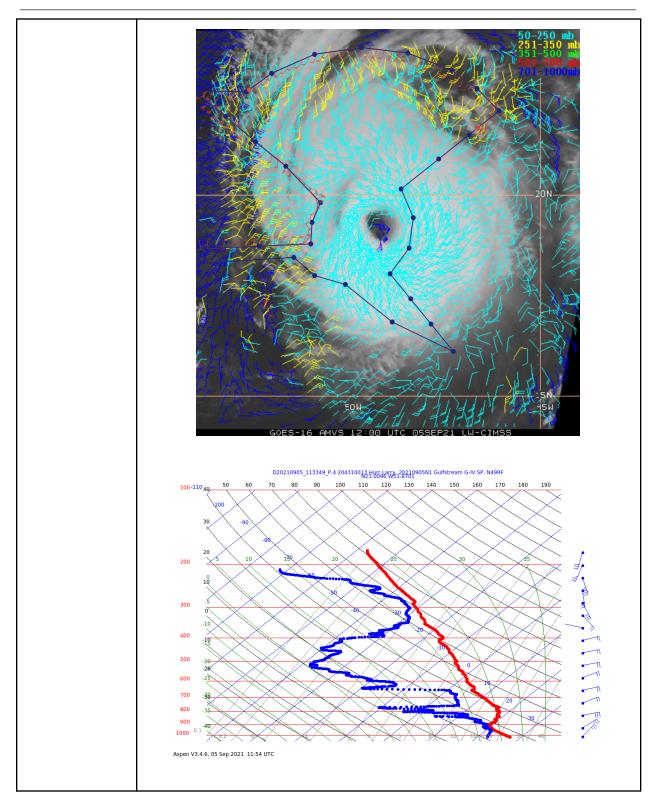
IN-FLIGHT		
Time [UTC]	Event	
0851	Takeoff from St. Croix	
0925	<figure></figure>	
0900	NHC Intensity: 105 kts	
0920	CIMSS TCDC imager shows early staged of the TC diurnal cycle	

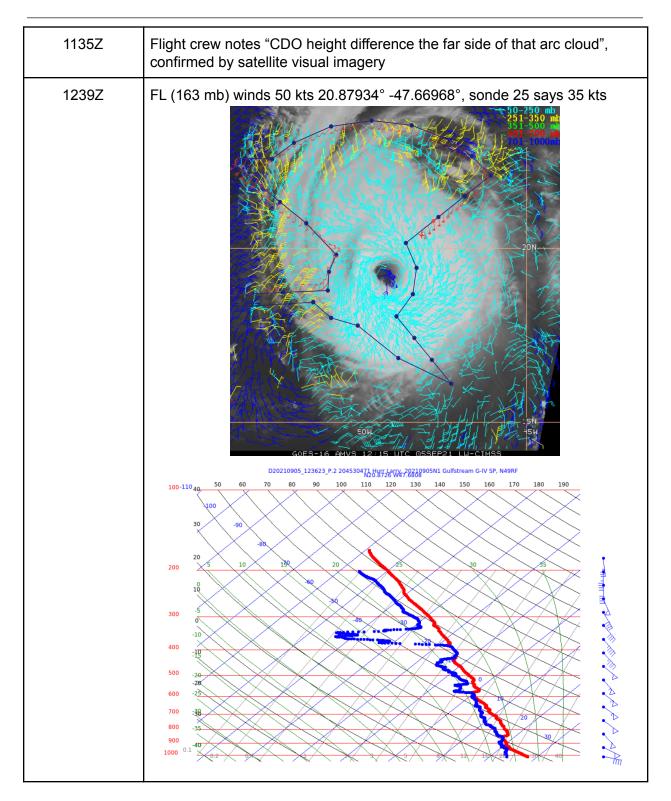


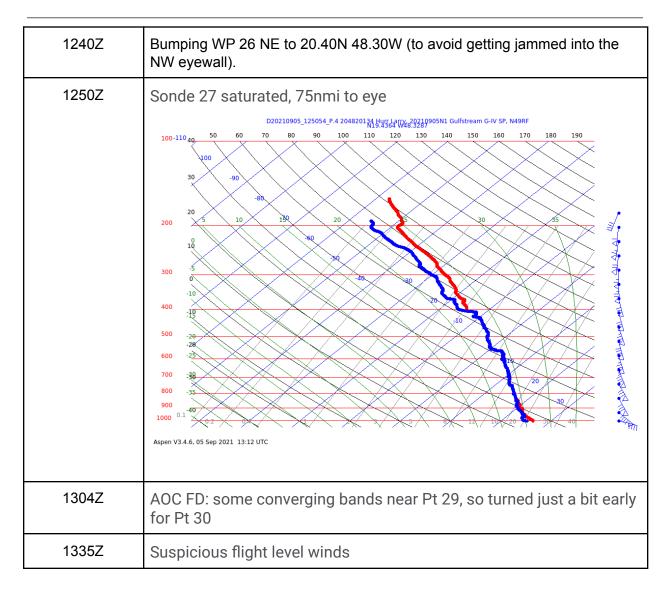
ROPICAL CYCLONE FORMATION/INTENSIFICATION IS GENERALLY 1038Z Flight crew says "Lgt chop here, touching the CDO. VFR up till now." 1045 Interesting cloud shelf ~62 n mi W of the center. These are the mysterious cloud shelves that occasionally get talked about on the tropical storms list. AOC Flight Director Jack Parrish took a photo of it during N49's closest approach near drops 10 and 11. 1047z Interesting Skew T at WP 11 (inner circumnav NW of the center). Almost an

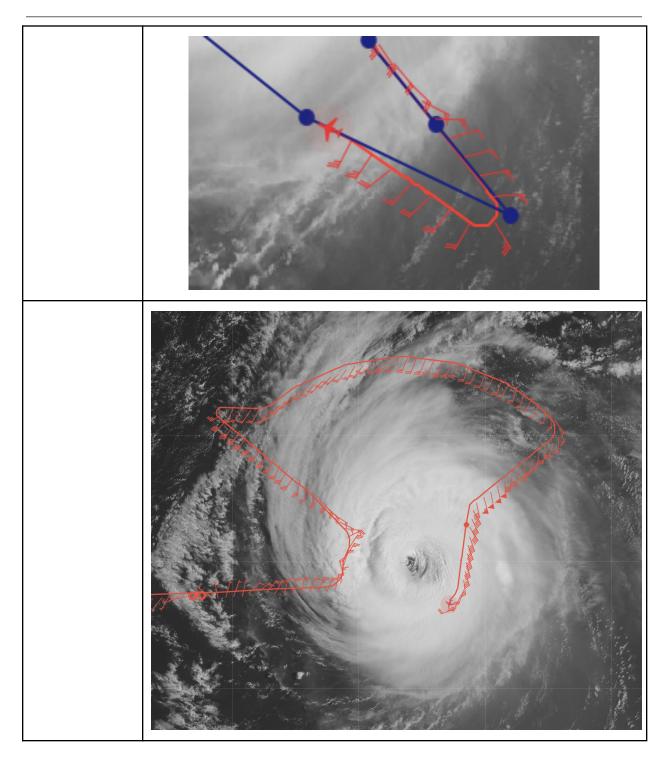


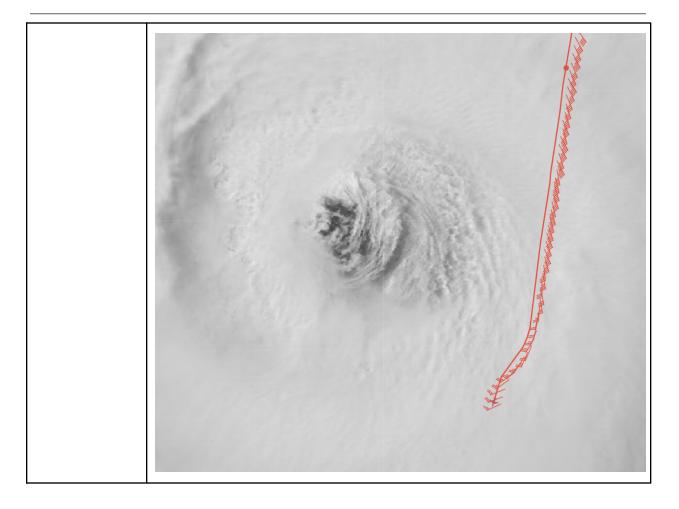
Advancing the Prediction of Hurricanes Experiment (APHEX) FLIGHT LOG - 20210905N1

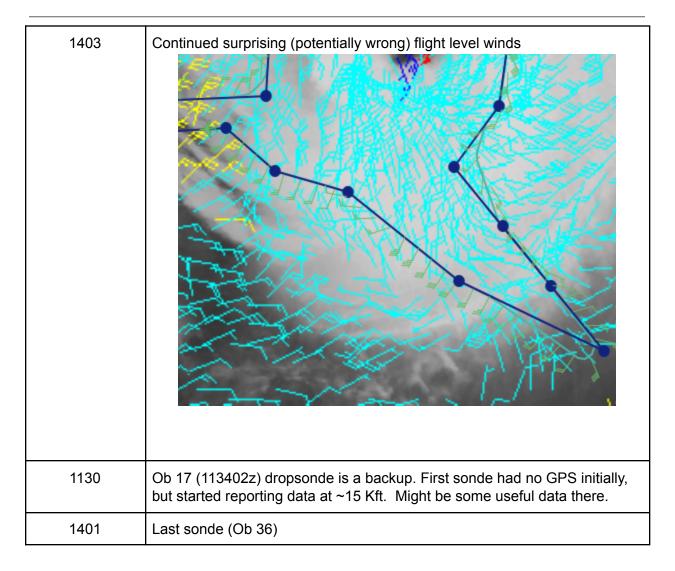












POST-FLIGHT		
Mission Summary	38 dropsondes deployed, 36 sent to the GTS (dropsonde account charges: 25 STAN, 13 HRD)	
Actual Standard Pattern Flown	Survey + Circumnav	
APHEX	Mature Stage Experiment: TC Diurnal Cycle	

Experiments / Modules Flown	
Plain Language Summary	
Instrument Notes	
Final Mission Track	Briteria by S22 & Briteria Bri

