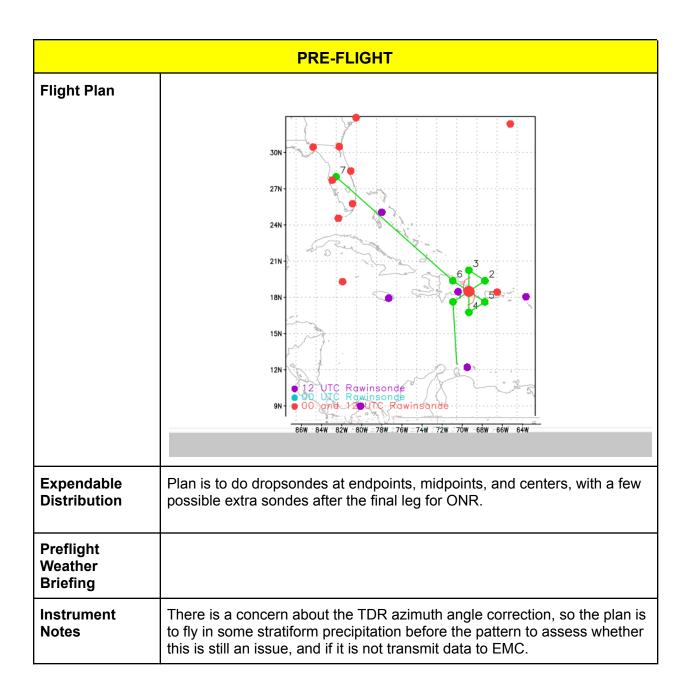
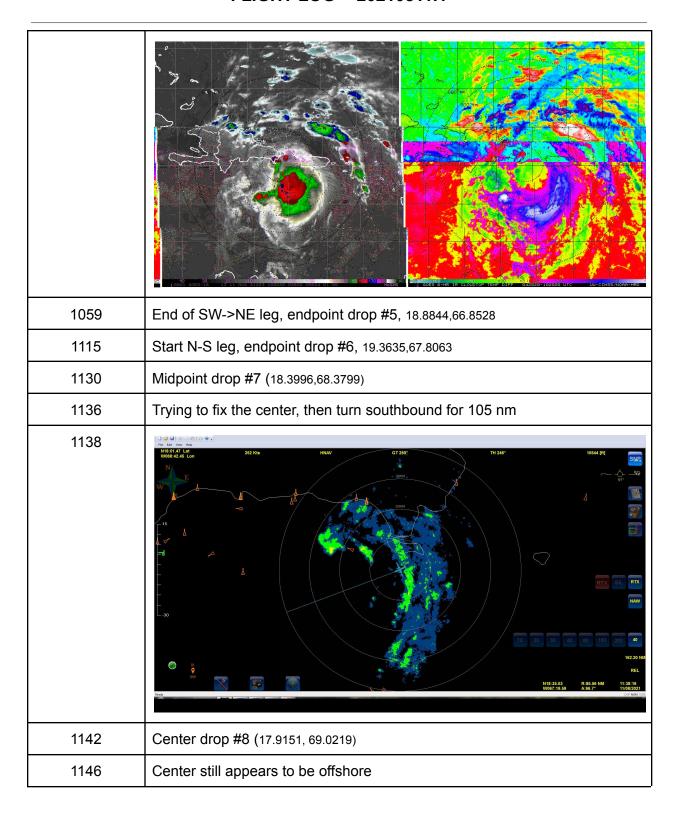
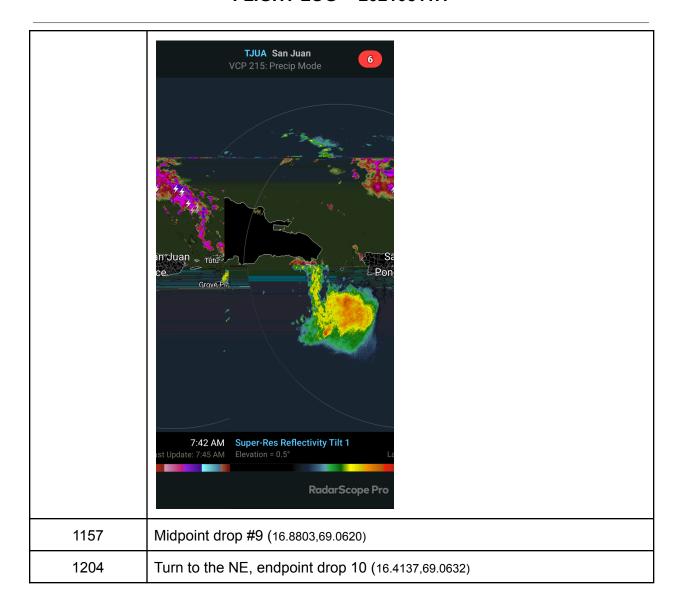
MISSION PLAN				
FLIGHT ID	2021081111	STORM	AL06 / FRED	
MISSION ID	0306A	TAIL NUMBER	NOAA43	
TASKING	EMC	PLANNED PATTERN	Butterfly	
MISSION SUMMARY				
TAKEOFF [UTC]	0837	LANDING [UTC]	1557	
TAKEOFF LOCATION	Aruba	LANDING LOCATION	Lakeland	
FLIGHT TIME	7.3	BLOCK TIME		
TOTAL REAL-TIME RADAR ANALYSES (Transmitted)	3 (0)	TOTAL DROPSONDES (Good/Transmitted)	17 (12)	
OCEAN EXPENDABLES (Type)	None	sUAS (Type)	None	
APHEX EXPERIMENTS / MODULES	Early Stage Experiment: AIPEX			
HRD CREW MANIFEST				
LPS ONBOARD	Marks	LPS GROUND	Hazelton	
TDR ONBOARD	Marks	TDR GROUND	Reasor	
ASPEN ONBOARD	Wadler	ASPEN GROUND	None	
NESDIS SCIENTISTS	Chang, Jelenak			
GUESTS (Affiliation)	Kregelka, Stokes			
AOC CREW MANIFEST				
PILOTS		Abitbol, Sateher		
NAVIGATOR	Shaw			
FLIGHT ENGINEERS	Sanchez			
FLIGHT DIRECTOR	Lundry/Hathaway			
DATA TECHNICIAN	Richards			
AVAPS	Warnecke			

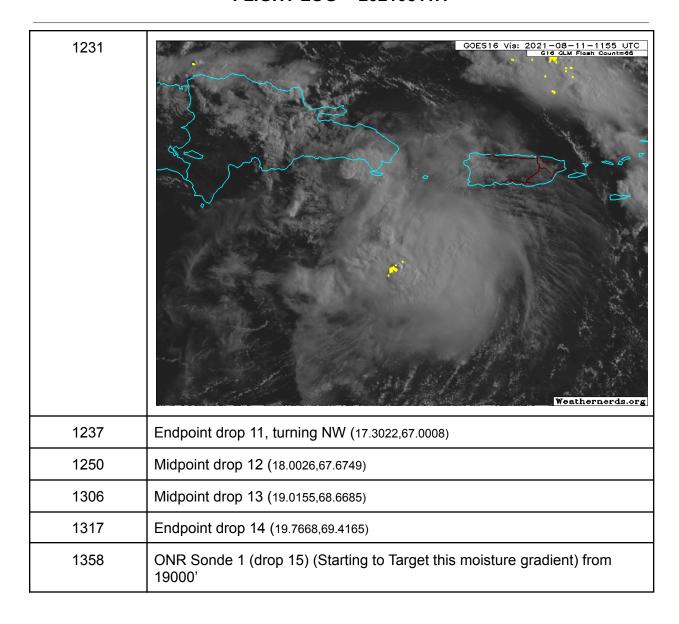


IN-FLIGHT		
Time [UTC]	Event	
0837	Takeoff from Aruba	
0843	Radar from TJUA: Seems like there is N-S tilt of the vortex (most convection south of the center). TJUA San Juan VCP 212: Precip Mode San Juan VCP 212: Pronce Super-Res Reflectivity Tilt 1 Last Update: 4.44 AM Radar Scope Pro	
0913	Frank Marks notes an apparent adjustment needed to the azimuth correction, based on the data being tilted in the radar display. 2.5 degrees will be tested.	
0930	Turning east into some convection to look for a spot for the TDR azimuth test	

0939	Starting leg for TDR testing
0948	Ending leg for TDR testing, heading for IP
1011	Drop #1: Endpoint SW,17.4359,69.9305
1025	Drop #2: Midpoint sonde SW, 17.8679, 69.0285
1030	Drop #3: Center sonde (NOT TRANSMITTED)
1042	Drop #4: Midpoint sonde NE (late launch detect)
1047	Center approaching the SE coast of DR
1055	Diurnal pulse from yesterday propagating outward, new diurnal pulse beginning.







1404	ONR Sonde 2 (Drop 16) from 19000'
1409	ONR Sonde 3 (Drop 17) from 19000'
1557	Landed in Lakeland

	POST-FLIGHT
Mission Summary	Data was collected in Tropical Storm Fred as it approached the Dominican Republic. Diagnostics of an error in the azimuth angle correction prevented transmission of any TDR data, but 12 sondes were transmitted. In addition, a moisture gradient NW of the tropical storm was sampled in collaboration with ONR. 17 sondes dropped, 12 transmitted. 14 NWS (12 transmitted), 3 ONR TCRI (not transmitted)
Actual Standard Pattern Flown	Butterfly with some corrections to avoid land and fix the center
APHEX Experiments / Modules Flown	Data collection will be useful for the Early Stage Experiment: AIPEX and was flown in collaboration with ONR TCRI

