NOAA / AOML / Hurricane Research Division
Hurricane Field Program
Advancing the Prediction of Hurricanes Experiment (APHEX)

FLIGHT LOG - LARRY 20210906I1

MISSION PLAN			
FLIGHT ID	20210906I1	STORM	AL12/LARRY
MISSION ID	WB12A	TAIL NUMBER	NOAA43
TASKING	HRD	PLANNED PATTERN	Butterfly
MISSION SUMMARY			
TAKEOFF [UTC]	1448	LANDING [UTC]	
TAKEOFF LOCATION	STX	LANDING LOCATION	STX
FLIGHT TIME		BLOCK TIME	
TOTAL REAL-TIME RADAR ANALYSES (Transmitted)			
OCEAN EXPENDABLES (Type)			
APHEX EXPERIMENTS / MODULES	Mature Stage Experiment: NESDIS Ocean Winds; Surface Wind and Wave Validation; End Stage, Tropical Cyclones at Landfall (Coastal Survey Module)		
HRD CREW MANIFEST			
LPS ONBOARD	Holbach		
TDR ONBOARD	Holbach		
ASPEN ONBOARD	Hazelton		
NESDIS SCIENTISTS	Chang, Jelenak, Sapp		
GUESTS (Affiliation)	—		
AOC CREW MANIFEST			
PILOTS	Didier, Copare, Statler		
NAVIGATOR	Hough, Richards		
FLIGHT ENGINEERS	Darby, Bennet		
FLIGHT DIRECTOR	Holmes		
DATA TECHNICIAN	Mascaro		
AVAPS	Warnecke		

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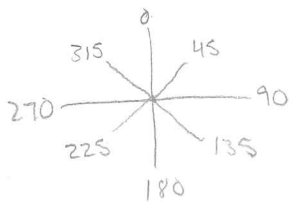

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PRE-FLIGHT	
Flight Plan	ALAMOs → 4 3 2C 5C 7C C C 8 C 6 C 1 C pt. 3: 25° 03', 55° 32' pt. 4: 24° 38', 56° 05'
Expendable Distribution	Comboeye 5→6 RMW NE + NW
Preflight Weather Briefing	Larry looks very annular for ATL.
Instrument Notes	

IN-FLIGHT		
Time [UTC]	**Event**	
1448	Takeoff	
1521-1528	Comms outage	
1612-1628	Comms outage (satcom is down)	
~1609	SFMR was having issue w/ clock syncronization,	
	but reboot of one system resolved the issue	
1656	depressurized for BT internal launches	
1703	Combo pt 1	EMC / ONR BT
1718	Sonde 2 midpoint	EMC
1726	Mark condor sonde 3	HRD
1744	Sonde 4 midpoint	EMC
1754	Combo pt 2	EMC / ONR BT
1852	Combo pt 5 28.61°C	EMC / ONR BT

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1905	midpoint sonde 7	EMC
1912	RMW sonde 8	NHC
1918	Combo center #9 27.47°C 956mb	HRD/ONR BT
1933	midpoint sonde 10	EMC
1945	combo pt 6 #11 26.92°C	EMC/ONR BT
1959	Combo pt 6-7 midpoint #12 27.11°C	ONR
2011	Combo pt 7 #13 27.96°C	EMC/ONR BT
2015	back-up sonde pt 7 #14	EMC
2023	Midpoint sonde #15	EMC
2028	RMW sonde #16	NHC
2036	mark center #17	HRD
2039	Beginning eye-eyewall mixing module!	
2106	E-EW sonde #18 near possible meso on SW side	HRD
	end of module. Repositioning for outbound	
2116	RMW sonde #19	HRD
2122	midpoint sonde #20	EMC
2136	EP combo drop #21	EMC/ONR BT
2330	landing STX	
sondes:	EMC: 13 (1 bad) NHC: 2 HRD: 5 ONR 1	
BTs:	ONR: 8	
121945		
123300	Drop 25 (RMW) inbound from E	

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POST-FLIGHT	
Mission Summary	
Actual Standard Pattern Flown	
APHEX Experiments / Modules Flown	
Plain Language Summary	•
Instrument Notes	
Final Mission Track	