TAKEOFF: 1957Z
LANDING: 0230Z
FLIGHT TIME: 7.5
BLOCK TIME:

AL07/GRACE

0000Z NHC:
50 KT / 995mb
20.7N / 91.0W

1800Z POS: NHC
997mb 50 KT
20.5N / 99.5W
W AT 16KT

2100Z POS NHC:
20.6N/90.2W 999mb / 45 KT

Lead Project Scientist Event

Date 8/19/21 **Flight ID** 20210819H1 **LPS** ZAWISLAK / HAZELTON
MISSION ID: 1607A

G-IV 8.1 BLOCK FOR HENRI 37 SONDES OBSNS

10 KFT INITIALLY THEN DOWN TO 8 FOR DURATION
12 KT WIND NOT GREAT BTS

	Time	Event	Position	Comments	
	1957	TAKEOFF LAKELAND	STORM LOOKS LIKE IT MAY COME OFFSHORE WHEN WE GET THERE. TIME, SOME PRIOR TO		
			NORTH IMPACTING THE INNER CORE STRUCTURE. SO LESS REFLECT NORTH.	ASYMMETRIC BUT CONVECTION	
		POSSIBLE STRATEGY SPIRAL			
		IF THE PROBES WORK BUT THEY WEREN'T YESTERDAY	IS REORGANIZING SOME AND THE INNER DOESN'T LOOK TOO BAD		
		CAS AND PIP MAY BE FUNCTIONAL			
IP NE BT Sonde #1	2145Z	IP SONDE / BT COMBO	NE INBOUND	FEW TO SCATTERED CLOUDS BELOW BT = 29.4C	NWS #1 BT #1
MP NE Sonde #2	2157Z	MP SONDE / INBOUND	NE. LAST POINT WE COULD DROP BEFORE BEING TOO CLOSE TO LAND		NWS #2
QTR NE Sonde #3	2201Z	QTR PT SONDE INBOUND	NE. VERY CLOSE TO SHORELINE		ONR #1
CIRCPA 1 Sonde #4	2206Z	CTR CPA 1	PRETTY BIG EYE SOME CLEAR	SKY ALOFT. BANDING CURVING IN FR	NWS #3
QTR SW Sonde #5	2210Z	QTR PT SONDE OUTBOUND	SW		ONR #2
MP SW Sonde #6	2219Z	MP SONDE SW	WITHIN CONVECTIVE BAND	CONDITIONS ON OUTBOUND DON'T	NWS #4
EP SW Sonde #7	2226Z	EP SONDE IN CLEAR → ALSO KIND OF IP SONDE		LOOK GOOD ENOUGH TO DO SPIRAL	NWS #5
		MADE TO ST INBOUND SE.			
MP QTR SE Sonde #8	2249Z	MP/QTR SONDE IN	FROM SE EYE BACK	OVER WATER	NWS #6
CTR 2 Sonde #9	2255Z	CTR 2 GOOD FIX	20°45' / 90°42'	2nd PASS EXTRAP OF 992mb	NWS #7
QTR PT NW Sonde #10	2304Z	QTR PT NW	21°18' / 91°31'		ONR #3
MP NW Sonde #11	2308Z	MP SONDE NW	21°32' / 91°12'	DROP HAD 995 11 KT AT 175°	NWS #8
EP NW BT Sonde #12	2319Z	EP NW 22°13' / 91°37' COMBO		30°C AT SST IN BT	NWS 9 / BT2
		TDR HAD SOME LOFTY WINDS AT THE START OF THE 1st PASS, BUT			
		DID GET HURRICANE FORCE + AT 0.5 KM FROM JEEVY GF, EVEN W/ THE PROXIMITY TO LAND.			
IP W BT Sonde #13	2342Z	IP W INBOUND COMBO	20°50' / 92°51'	TURNING INBOUND. BT DOESN'T LOOK GOOD	NWS 10 / BT3
MP W Sonde #14	2356Z	MP W INBOUND APPROACHING "EYEWALL" OR KIND OF AN INNER BAND			NWS 11
QTR PT W Sonde #15	0003Z	QTR PT W INBOUND	INSIDE EYEWALL BUT SFC 40 KT WIND AT SFC.		ONR #4
CTR 3 Sonde #16	0009Z	CTR 3 CPA		SONDE: 994mb 09/110	NWS 12
QTR E Sonde #17	0015Z	QTR PT JUST ON EDGE OF EYEWALL ENE		CTR 3 EXTRAP 992mb	ONR #5
MP ENE Sonde #18	0023Z	MP ENE → PUSHING A TRACK NORTH TO STAY OFFSHORE			NWS 13
			NOT MUCH RETURN OVER LAND SO BETTER TO STAY OFFSHORE AND GET THE DROPS		
EP ENE Sonde #19	0037Z	EP ENE FINAL DROP			NWS 14

SCIENCE COMPLETE

180

OVERLAND WINDS ON THE 2nd PASS LOOKED REAL GOOD.

19 TOTAL SONDES, ALL GOOD. 14 NWS, 5 ONR
3 BTS OVR, 2 GOOD TO NE AND NW, BUT NOT W

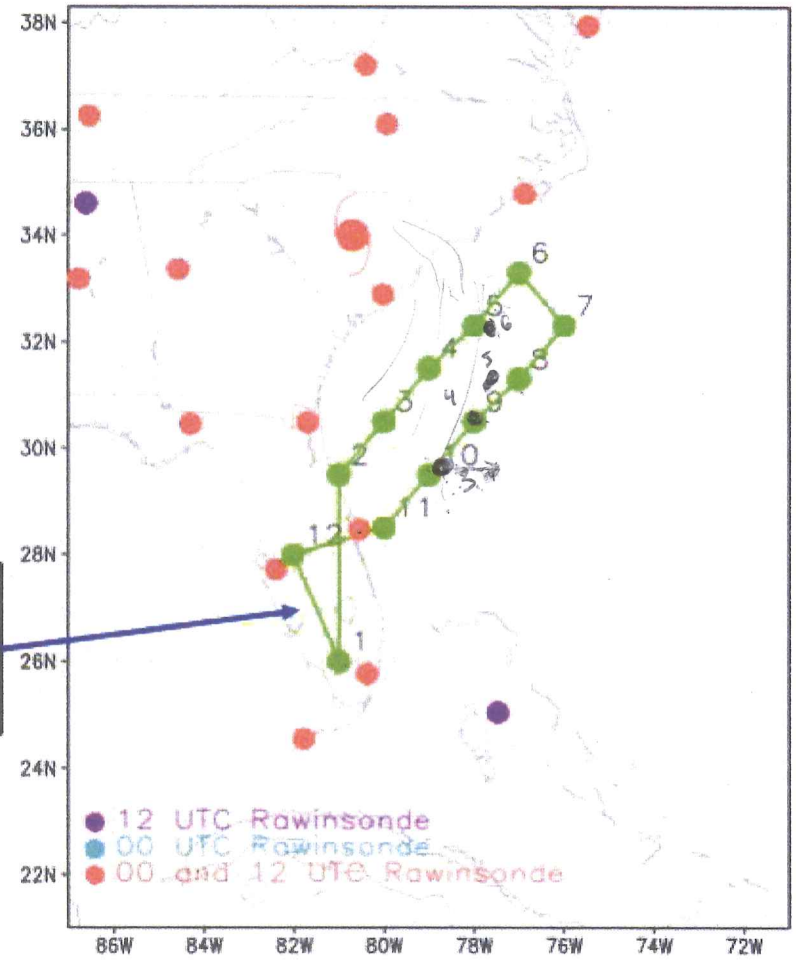
Lead Project Scientist Event

Date Flight ID LPS

Time	Event	Position	Comments

25 nms

5 min for Dbsp Notification



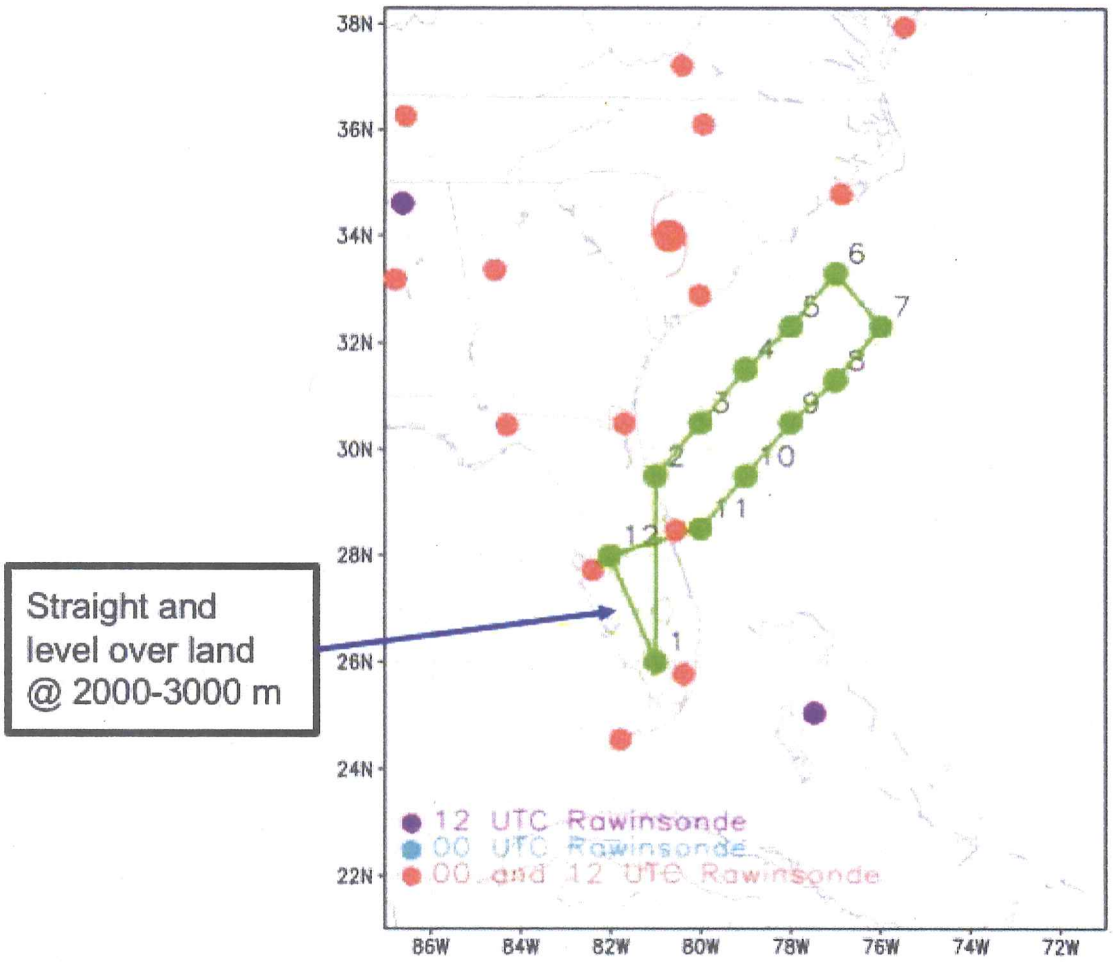
Straight and level over land @ 2000-3000 m

Over water objectives (points 2-11):

1. Straight and level in clear air (to surface). Race track between two points
   a. 500 m
   b. 1500 m
   c. 3000 m
   d. 6000 m
2. Straight and level in partially cloudy conditions @ 3000 m
3. Straight and level beneath light precipitation @ 3000 m
4. Fly through light precipitation to "wash" window and test sensitivity
5. ***Potential module:*** fly a box with dropsondes in the middle of each side

1220 Z
2020 Z
1820 Z

29.4 / 78.5
30.4 / 78.0
31.2 / 77.8
32.2 / 77.6



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