

Lead Project Scientist Check List

Storm or Project 20190914H1

Experiment name HUMBERTO

Flight ID _____

Mission ID _____

A. Participants:

Function	Participant	Function	Participant
Lead Project Scientist	Bucci	Flight Director	Lundry, Parrish
Radar Workstation	Avey	Pilot	Kahn
Cloud Physics		Pilot	Rossi, Legidakes
Dropsonde	Aberson	Navigator	Richards
Dropsonde		Systems Engineer	Meystek/sanchez
AXBT/AXCP		Data Technician	McAllister
Observer/Guest	Darby, Franklin	Electronics Technicians	Naehner, Richards
Observer/Guest	Van Buskirk, Chang	Flight Engineer	

B. Take-off and Landing Times and Locations:

Take-Off: 2051 UTC Location: Lakeland

Landing: 0200 UTC Location: Lakeland

Number of Eye Penetrations: 3

C. Past and Forecast Storm Locations:

Date/Time	Latitude	Longitude	MSLP	Maximum Wind
/				
/				
/				
/				
/				

D. Mission Briefing:

Ts Humberto NE of Bahamas @ 45 kts / 1005 mb. EMC-TDR mission calls for butterfly pattern w/ drops at ends, mids, and center. Potential add on module is the ADM-Aeolus underflight, though with the shift to the east, it may be in between our pattern

Storm or Project _____ Experiment name _____

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E. — Equipment Status (Up U, Down D, Not Available N/A, Not Used O)

Equipment	Pre-Flight	In-Flight	Post-Flight	# DATs / CDs /Expendables/ Printouts
Radar/LF	↑			
Doppler Radar/TA				
Cloud Physics				
Data System				
GPS sondes	↑			
AXBT/AXCP				
Ozone instrument				
Workstation	↑			
Cameras	↑			

REMARKS:

Lead Project Scientist Event

Date

Flight ID 20190914 H1 LPS Bucci

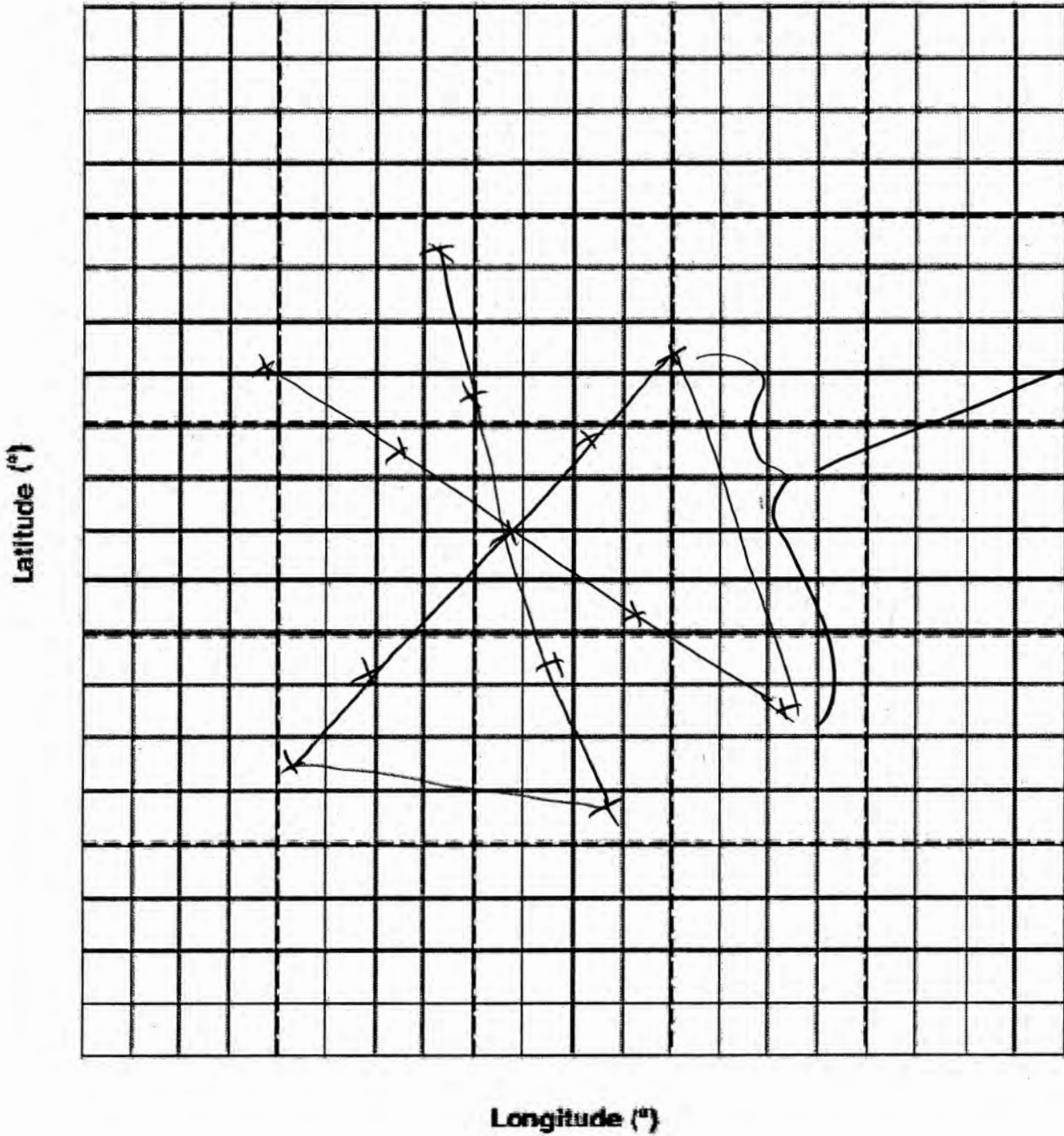
	Time	Event	Position	Comments
	2052	Take off	Lakeland	8 min early
	2105	structure	27.4 77.3	low level center
				tucked under convection
1	2127	1P - end sonde	28° 5' 79° 16'	scatter low cu
		comment on		Anvil above
	2137	end sonde	W side storm	RH 60-70%
	2140	convective line	27° 45' 79° 16'	left side plane
				6-8 km tops
2	2142	mid pt sonde	27° 43' 78° 10'	
	2150	strat rain	27° 31' 77° 34'	30-40 DBZ
3		center drop		
		↳ low level	swirl off right	wing ~9 mi
			16.25N 77.13W	
		1003.9 115 @	33 kt	
4	2216	mid pt sonde		
5		end pt sonde		
6	2258	end pt sonde		
7	2310	Aeolus sonde		Anvil above, broken/scat
8	2312	mid pt sonde		below
9	2317	Aeolus sonde		
10	2335	mid pt sonde		
11	2349	end sonde		
	2353		SW downwind	completely clear
				no precip
12		end sonde		
13		mid sonde		
		end sonde		

0015 radar shows stacked vortex
especially 2 to 8 km

Observer's Flight Track Worksheet

Date _____ Flight 20190914H1 Observer _____

Use highlighter to draw freehand on chart



ADM
Aeolus
pass
leg
@ 2300 Z

Mission Summary

Scientific Crew (4 RF)

Lead Project Scientist Buccì

Radar Scientist Aivey

Cloud Physics Scientist

Dropwindsonde Scientist Aberson

Boundary-Layer Scientist

Workstation Scientist

Observers (affiliation)

Mission Briefing: (include sketch of proposed flight track or page #)

Butterfly pattern @ 10K into 45 kt TS Humberto.

Convection to the north and east of center. Satellite indicated dry air and some shear pushing dry air into center

Mission Synopsis: (include plot of actual flight track)

TS Humberto appears to be better aligned with more wide spread convection. SW quadrant still shows dry air intrusion and no precip. First downwind leg did not line up with satellite track, but dropped a couple extra sondes: on inbound of

Evaluation: (did the experiment meet the proposed objectives?)

Mission successfully transmitted all radar analyses and dropsondes.

Problems: (list all problems)

None

Expendables used in mission:

Deployed 15 Good 15 Bad

GPS sondes : 15

AXBTs :

Sonobuoys:

UAVs