### Lead Project Scientist

Prefli	ght	
- And 10	1.	Participate in general mission briefing.
	2.	Determine specific mission and flight requirements for assigned aircraft.
	3.	Determine from field program director whether aircraft has operational fix responsibility and discuss with AOC flight director/meteorologist unless briefed otherwise by field program director.
-	4.	Contact HRD members of crew to:  a. Assure availability for mission.  b. Review field program safety checklist  c. Arrange ground transportation schedule when deployed.  d. Determine equipment status.
· Hor	5.	Meet with AOC flight director and navigator at least 3 hours before take-off for initial briefing.
<u> </u>	5.	Meet with AOC flight crew at least 2 hours before take-off for crew briefing. Provide copies of flight requirements and provide a formal briefing for the flight director, navigator, and pilots.
14-	6.	Report status of aircraft, systems, necessary on-board supplies and crews to appropriate HRD operations center (MGOC in Miami).
VIIIV	7.	Before take-off, brief the on-board GPS dropsonde operator on times and positions of drop times.
3-3-1	7.	Make sure each HRD flight crew members have life vests
-100	7.	Perform a headset operation check with all HRD flight crew members. Make sure everyone can hear and speak using the headset.
	8.	Collect "mess" fee (\$2.00) from all on-board HRD flight crew members.
In-Fli	ght	
	1.	Confirm from AOC flight director that satellite data link is operative (information).
-	?	Confirm camera mode of operation.
	3.	Confirm data recording rate.
	4.	Complete Lead Project Scientist Form.
	5.	Check in with the flight director to make sure the mission is going as planned (i.e. turns are made when they are supposed to be made).
Post fl	light	
	1.	Debrief scientific crew.
-	2.	Report landing time, aircraft, crew, and mission status along with supplies (tapes, etc.) remaining aboard the aircraft to MGOC.
	3.	Gather completed forms for mission and turn in at the appropriate operations center. [Note: all data removed from the aircraft by HRD personnel should be cleared with the AOC flight director.]
	4.	Obtain a copy of the 10-s flight listing from the AOC flight director. Turn in with completed forms.
-	5.	Obtain a copy of the radar DAT tapes. Turn in with completed forms.
	6.	Obtain a copy of the all VHS videos form aircraft cameras (3-4 approx.). Turn in with completed forms.
	7.	Obtain a copy of CD with all flight data. Turn in with completed forms.
	8.	Determine next mission status, if any, and brief crews as necessary.
-	9.	Notify MGOC as to where you can be contacted and arrange for any further coordination required.
	10.	Prepare written mission summary using Mission Summary form (due to Field Program Director a week after the flight).

Lead Project Scientist Check List Experiment name Post LANDFALL Flight ID A. Participants: HRD AOC **Function Participant Participant** Function PAULFLEHERTY Flight Director Lead Project Scientist 7 -Pilots P. Kemery Radar P. LEIGHTON Workstation Navigator STEVE Cloud Physics Systems Engineer Data Technician SEAN MSMILLAN Photographer/Ol MARK ROGERS /Guests Electronics Technician John Hill Dropwindsonde MURILLO Joe KLIPFEL, ROC(91 AXBT/AXCP Other B. Take-off and Landing Times and Locations: Take-Off: 1853 UTC Location: TAX Landing: 62/6 UTC Location: Number of Eye Penetrations: C. Past and Forecast Storm Locations:

Date/Time	Latitude	Longitude	MSLP	Wind
	29° 50	86 551		
		E - E	-	
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		<u>, , , , , , , , , , , , , , , , , , , </u>		

D. Mission Briefing:

SFMR

ssion Briefing: FLY Coastal Run, targeting tower teams

E. —Equipment Status (Up ↑, Down ↓, Not Available —, Not Used O)

Equipment	Pre-Flight	In-Flight	Post-Flight	# DATs / Cds /Expendables/ Printouts
Radar/LF				
Doppler Radar/TA	1	1	1	
Cloud Physics	0	0	D	
Data System	1	1 (-84E	n) 1	
GPS sondes	1	1	1	C
AXBT/AXCP	0	0	0	1.0
Ozone instrument	7	15) ?	?	
Workstation	1	1	11	14
Videography		401		14

#### **REMARKS**:

STATIONLY ONE SCREEN AT LPS STN. diaucokey FIXED. LATE IN FLIGHT main data window display out- so hunder to get wepd

radars froze numerous times, but was rebooted anickly each time.

soveral of the "sobre therra" sondos had No Launch Detects. Others this mob have winds all the way to ste.

### Lead Project Scientist Event Log

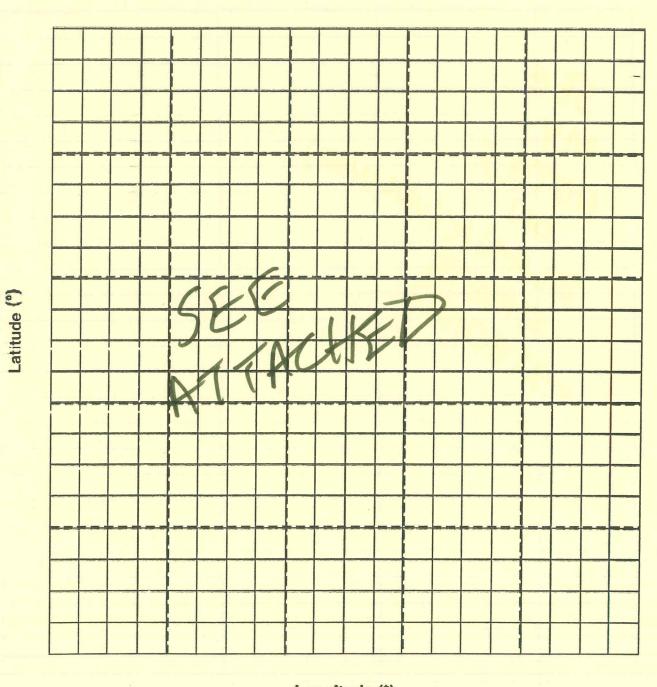
Date		Flight		LPS	5
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Time	Event Position		Comments	
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30

### **Observer's Flight Track Worksheet**

Date \_\_\_\_\_ Observer\_\_\_\_



Longitude (°)

## D \$3050710

T/0:

1923 could not contact TEAL so we are going to 14,000' now - instead of later

have sonde ready

1936

1937 5 SONDR #1 29.65 84.32 SPMR 20 MS

GOOD 35 KG SFC

45 KG SEC

@ 1948 14 52 KTS SFMR FOOD (then wirels back)
1950 24 twon 29052' 850100 down to 20 m/s!
twon to follow coast

2002 30° 08' 86°07' FLT level only 66 KTS STEM TSS not much wind for a cat 4 storm

2005 SND #3, first of sequence - et T3 Tower

2011 ( SHAPE to the eyewall

2012 21 SND#4 30°13' 86°54' NO WINDS NLD decided to wait until next point sede eye completely empty south sede

201637 SND # 5 30°10' 87°12' NLD

# (3) 050710H

202119 SND#6 GOOD launch detects We are at GALG FORCE WINDS STORM & CTTHER VERY COMPACT OR rapidly decaying FLT Level 28 KTS, SPMR 48 KTS 202752 SND#7 - K so we dropped to see if it is gradient or funky SPMR 203642 SND#8 30°09' 80°76' mear through 3007 then we are turning to head ENE 2045 trucking 65° 7 6 , still only 35 KT FLT UK 2053 Flt level 60 KTS 2055 - WSW eyewall 78 KTS - Flt level ENE u 82.9 u broed cerea

2104 we are in MOB EUX dual Doppler Loke

2[0827 SNP# 9 31°06' 86° 07' FLT Level 165 (OUGR LAND to NE) (SND HAD VERY) KTS

2119 turn to head WNW to got to N Pf for pars & N-5 Wet I drop 3 soudes inbound, incl CTR 2127 bouncing a bit

2149 - in Geomer ram/snev

2(50 at 32 °39,5' 88°09' Hunning showly to head &

215240 SND 410 32032 88019 FLT Level 52 KTS 7 159 adjust to wack 180°, 2201 Flt level winds down to>30 KTS 70 nm Nof G

220年·SND#11 310451 880261 Just outside rainband

2210 30 mi to eyewall and fit level on this NW side 41 KTS

221601 47 SND #12 NW EYEWALL DROP and Paul Hunting CIR for Vortex Message

2219 marked center and drop 24KTS 3100 2220 : 31° 36' 87° 33' this stide of storm

2235 at Gale Force Wind radius

2300 We are heading 270 to do the Hosta of window down

2302 rodars I briefly

2309 in clear after parsing three E Eyewalf which agrees well with Pauls criedador extrata

2316 pussing just S of intense echo in EAST J eyemax

0507104(4) 35 NE 25 SE 2319 %

134041 turn at 31°25 89°85 to head SE to point S of 9 for final pass

9069 we are headed N towards Mobile But & s ~ 80 nmi of us

2024 - radars down again

1032 radars down

N eyewall SONDG #15 03636 31.96, 87.67 42007 30.0g

radors buck up then also.

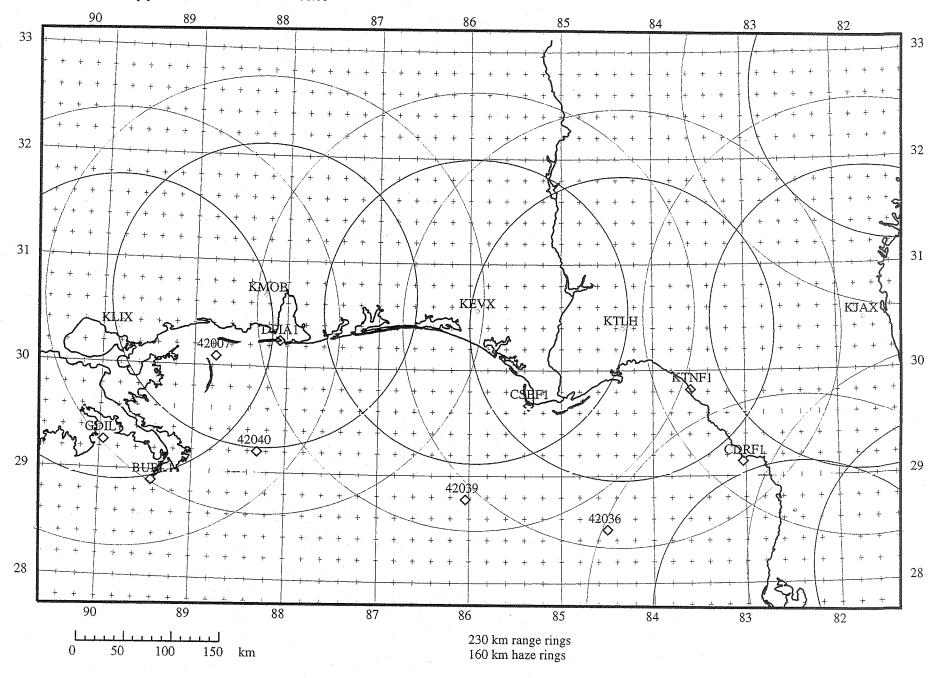
004

004732 32.58 87-04 last sonde

32.54

86074

LAST SONE



km