#### **Lead Project Scientist**

Participate in general mission briefing. Determine specific mission and flight requirements for assigned aircraft. NHC—Tasket 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. Contact HRD members of crew to: Assure availability for mission. Review field program safety checklist Arrange ground transportation schedule when deployed. Determine equipment status. Meet with AOC flight director and navigator at least 3 hours before take-off for initial briefing. 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. Report status of aircraft, systems, necessary on-board supplies and crews to appropriate HRD operations center (MGOC in Miami). Before take-off, brief the on-board GPS dropsonde operator on times and positions of drop times. Make sure each HRD flight crew members have life vests Perform a headset operation check with all HRD flight crew members. Make sure everyone can hear and speak using the headset. Collect "mess" fee (\$2.00) from all on-board HRD flight crew members. Confirm from AOC flight director that satellite data link is operative (information). Confirm camera mode of operation. Confirm data recording rate. Complete Lead Project Scientist Form. 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). flight Debrief scientific crew. Report landing time, aircraft, crew, and mission status along with supplies (tapes, etc.) remaining aboard the 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.] Obtain a copy of the 10-s flight listing from the AOC flight director. Turn in with completed forms. Obtain a copy of the radar DAT tapes. Turn in with completed forms. Cbtain a copy of the all VHS videos form aircraft cameras (3-4 approx.). Turn in with completed forms. FLT BATA Obtain a copy of CD with all flight data. Turn in with completed forms. Determine next mission status, if any, and brief crews as necessary. 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).

Storm or Project Date 5 July 2		Experime 72 (f) Fligh	nt name <u>7.5, C</u> ht ID <u>200507</u>	indy/ITEX D	
A. Participants:					
	HRD	in whomen	AOC		
Function	Particip	ant Function	n and the same of	Participant	
Lead Project Scientist  Radar  Workstation  Cloud Physics  Photographer/Observer  /Guests  Dropwindsonde  AXBT/AXCP  B. Take-off and Landing Times and Locations  Take-Off:UTC Location:		Pilots Navigato Systems Data Teo	Navigator  Systems Engineer  Data Technician  Electronics Technician  Other  Silank  (Gallashur  Mippel, Wade,  SMacMullan  Silank  (Mippel, Wade,  Si		
ake-Off:anding:	UTC Location:	Jose Costa		W-6)	
Fake-Off: Landing: Number of Eye Per C. Past and Forec	UTC Location: Letrations:ast Storm Location	Jose Costa Key West, F	-	1. agent tests	
Take-Off:  Landing:  Number of Eye Per	UTC Location:	Jose Costa Key West, F		Maximum Wind	
Cake-Off:	UTC Location:  UTC Location:  netrations:  ast Storm Location  Latitude	Jose Costa Key West, F	-	Maximum Wind	
Take-Off:	UTC Location: Latitude	Jose Costa Key West, F ns: Longitude	-		
Take-Off:anding:	UTC Location:  UTC Location:  netrations:  ast Storm Location  Latitude	Jose Costa Key West, F	-		
Cake-Off:	UTC Location: Latitude	Jose Costa Key West, F ns: Longitude	-		
Take-Off:	UTC Location: Latitude	Jose Costa Key West, F ns: Longitude	-		

and SE (eyen 11)

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

	Equipment	Pre-Flight	In-Flight	Post-Flight	# DATs / Cds /Expendables/ Printouts
	Radar/LF	9	1		
1	Doppler Radar/TA	1	9	54 Tele 68	15 75
1	Cloud Physics		YE, 45		23.24
1	Data System	1	1	1.35	E M
1	GPS sondes	1	1		
1	AXBT/AXCP	0.7.94.40		11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	SA ITA
	Ozone instrument	4			577 q/A
-	Workstation	1	7		1537 F
	Videography	1	9	Lister II	THYS

**REMARKS:** 

75. Cividy

999,29

#### Lead Project Scientist Event Log

Date 2005 0705 Flight OSO70SHI LPS Paul Leighb

0503A Cindy				
Time	Event	Position	Comments	
13:43:52	Take OFF	989,4 840131	Son Tose, Cofe Rica	
16:21:50		20,84 86,58	location up date New (02.	
16:34:30	Mx	21.54 87.56	clearing Dellerin Cost	
17:31	IP-97,54	24,76 91,72	Start descent to 5000	850 mb
17:46	SPy in toolh	26.0 91,66	5000 Herry 45°	
13 110			WS Joch up	
18:11		7	Sonde/avneh	
1847	Center?	27,67 90,34	Videography	
	Break to Take a	e & WS		
19:00		20,87 90,64	hest bound down wind	6,
1930			loite @ 10000	
1940			Tun monly 2	
1942			descent to 5000	
1946	9 4		5000' SE/e, 2	
2010	Cerhr#2	28.01, 9056	J	
2014/150	Climb out	26,66, 89,09	0 1 1 5-1	
			Cindy truck to Bato	- Rage
2 617	(ct)	77111 900	<b>4</b> . 1	6.0
2 1817	Cartin2	2501 0000	Des dun 10	00,000
2010	6.12	28.01 9035	dez, mm 99)	3mb
26		100	THEY CLIG	
2221	/a ded	Keyrest	24.88 81.69	

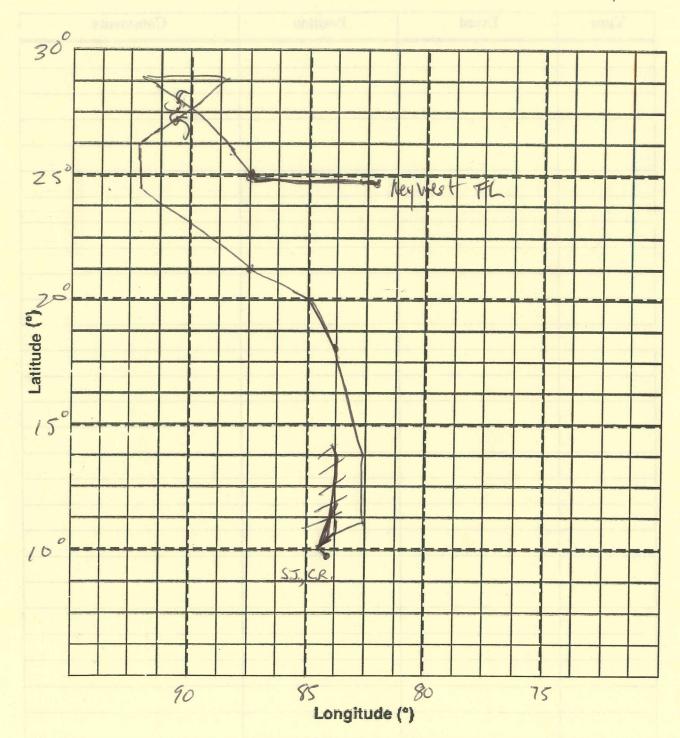
Kepold

040925066

042115 187

## Observer's Flight Track Worksheet

Date 570/05 Flight 2005 0705 HI Observer Paul A. Leign Im



# Mission Summary Storm name YYMMDDA# Aircraft 4\_RF

/	Calir Change Comment of the Comment
Zo Lue	Scientific Crew (4 RF)  Lead Project Scientist Paul Leighten  Radar Scientist Paul Leighten  Radar Scientist Paul Leighten  Cloud Physics Scientist Paul Leighten  Dropwindsonde Scientist Paul Leighten  Boundary-Layer Scientist Kric Wilhorn  Workstation Scientist Paul Leighten  Observers
lank-	Mission Briefing: (include sketch of proposed flight track or page #)  Fig Y w / Six drops 18:00 & 21:00 2 Fix responsibility  hoiter NE, for timing Second lag  Drop linbourd, least, lookoord, each beg
e CR	Mission Synopsis: (include plot of actual flight track) As planned loster to NW instead of NE.  Schops 1st inbound not dropped
osto-te	Evaluation: (did the experiment meet the proposed objectives?)  Ford at 75 aph and @ Suffer 68 lets  \$ Step 5 aph and \$ 38 lets and \$ or \$ 68 lets  \$ 50-celled 64 lets at 950 mb
	Problems: (list all problems) sos locked op @ 18:11 just before drop Twelver drift get into votil a re-send from HAPS.
Sonobuo	Expendables used in mission:  GPS sondes: $5$ AXBTs: $9$ The solution of the solution is $1 \text{ and } 1  a$
	35 x 1.15 = ~ 78mph (Hursican) (See Ship report ~ 1 hr certier.)

14+ ,5148 and (, 5, 6( 14 = 1.15 mgh : 865

# 2005 070541

Mission Sunry!

NOAA NYZRF flew an NHC-fasked (OSO3A-Cindy) SFMR Mission into Trapical Stevan Cindy. The P3 left San Jose, Costa Rica, @ at 13:43 UTC (69:48 MEDT) and recovered at Boca Chica NAS, FL (key west FC) at 2221 orc (6:21 pm 201). A Figure 4 pattern was flown with the fix at 18:17 btc (27.67N,90.37W). Thre were 2 soude drops along this leg okin the center and one in the NE eyewall, Toesonde drops were unde on the NW to SE leg for the 212 fix made at 20:10 UTC (28:49); 90,56 W). The first dop on this leg was near the NW Exe wall, the second in the eye, and The third in the SE oyenall. SFMR winds peaked at 35 m/s (168 kts-or A 78 mph 3[Horricane?]). Inshum A according to I Skets.

Sol Leighton