Lead Project Scientist

Prefli	ght					
V	1.	Participate in general mission briefing.				
V	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.				
	5.	Meet with AOC flight director and navigator at least 3 hours before take-off for initial briefing.				
1	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.				
-/	6.	Report status of aircraft, systems, necessary on-board supplies and crews to appropriate HRD operations center (MGOC in Miami).				
V	7.	Before take-off, brief the on-board GPS dropsonde operator on times and positions of drop times.				
W	7.	Make sure each HRD flight crew members have life vests				
4	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).				
777	?	Confirm camera mode of operation.				
	3.	Confirm data recording rate.				
	4.	Complete Lead Project Scientist Form.				
1	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 f	light					
	1	Debrief scientific crew.				
<u>parvi</u>	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

Storm or Project	IFEX - early	phose I	Experiment name		
Date 7/3/05			Flight ID	050703I	

A. Participants:

HRI	D	AO	C
Function	Participant	Function	Participant
Lead Project Scientist	Rigers	Flight Director	Mayeaux
Radar	91 Shapping a great he agree	Pilots	Maria de La Caración
and to ever a desired soft soil	Volde	of the second of the division	Telsest, Nolson
Workstation	Rosers	Navigator	Brokos
Cloud Physics	willis	Systems Engineer	Lynch
Photographer/Observer	entre concentración entre	Data Technician	
/Guests	The second secon		
Dropwindsonde	Leave the second second second	Electronics Technician	
AXBT/AXCP		Other	

B.	Take-off	and	Landing	Times	and	Locations:
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Take-Off:	160730 L	JTC	Location:	MacDill A	B
	The state of the s				

Landing: 2030 UTC Location: San Joe Int 1 Airport, CR

Number of Eye Penetrations:

C. Past and Forecast Storm Locations:

Date/Time	Latitude	Longitude	MSLP	Maximum Wind
			STATE OF THE STATE	
	Land Market 1972	I dryw to date of tipospe bid	a of the of the second of	
- pound take of		TIESA m grant goda z fran	t till att to you in man or	
		cette flores per mo		
	ear of beauty	TOTAL NOT REAL BOOK	s draw to the company of the	

D. Mission Briefing:

Ferry from MacDill to Son Jose, CR to begin IFEX-Forly phase partnership with NASATCSP. System in Nov Caribbean might be developing gother will be flying thru that system on the ferry down. might be developing gother will be flying thru that system on the ferry down. We will drop & sordes; 2 on the www side and 2 on the SE side. Also we will we will drop & sordes; 2 on the www side and 2 on the SE side. Also we will run TA refur in FIAST, and the thru clouds to test microphysics probes

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

Equipment	Pre-Flight	In-Flight	Post-Flight	# DATs / Cds /Expendables/ Printouts
Radar/LF	₹	1		All I A No.
Doppler Radar/TA	1	1		
Cloud Physics	1	A.		
Data System	1	1		
GPS sondes	1	1		
AXBT/AXCP	0	0		
Ozone instrument	0	O		
Workstation	V	4		
Videography	1	1		

REMARKS:

Workstation still not working, will have to wint for

Poul L. to book at it once we're in CR. Cloud physics probes seem

to be working, but haven't flower through doubt yet. HRDSFMR

is running; one of the frequencies is not being read (right-most one

manerical display)

Lead Project Scientist Event Log

Date 7(3/05 Flight 05070 3I LPS Rigers

Time	Event	Position	Comments
1/277-	T(0	MarDiUAFB	Caff for MATIO
160730	10	1 MODICIALD	altitude of 20 loff
1725	10.11.01	7777' 85° W' NA	" Cally + come of land
	launps	100 00; 107	To Aluka lit some good langs; probes
			seem to be war loving, good
			Snow crystal images;
1772.	CP probes	West of Cuba	algratalz mis updratt
1733	A 11000	West of Caroa	CIP probes working well; PIP has stuck diodes
1749	rodar	205785°43; thry	areas of spratform raing rain
	10000	Yeaton channel	reflectivities of about 20-25067
1750	drup 1 /20°55 85°42')	NE of suspent system	she wind of 085,21 lets; 10th, 2 mb
1816	drop 2 18 58 84 43')	E of suspect system	sfc wind of 139,1565; 1011
1828	system comment		ivolication system might be
			getting latter organized; LF shows
- Care Care	The Control of Assessment		Curvature to line of convertion was
			suspected center; sortellite imagery
	100		also indicates curvature; winds
			are southersterlies, rother than
			illust one would expect to be sw,
		but may indicate bu	level convergence. No way to
		know, Motor h, wlow	two draps Nw of here
18 44	SFMR	1700'. 83°42'	through the still has high bias, even wal
1844	drop 3(17° 0'83 44')	s E of suspect system	ste wind 120, 176ts, mb working
1851	drop abs	16012 8323	windsalve 700 at 190 Novistou
The state of the s			Lelowits leitches to southersten ofe wild
1857	wirds	1600'83020'	to westerly winds at ste,
			at least where we flew,

only westerly wirds were above 700mb

Mission Summary Storm name YYMMDDA# Aircraft 4_RF

Scientific Crew (4 RF)

	Lead Project Scientist
	Radar Scientist
	Cloud Physics Scientist Will's
	Dropwindsonde Scientist
	Boundary-Layer Scientist
	Workstation Scientist
	Observers
Mission Briefing	: (include sketch of proposed flight track or page #)
	Ferry to Son Jose, included their formula
	incipient system in www.corib.
Mission Synopsis	s: (include plot of actual flight track)
	erry was fine, justruments worked well. No indication.
of a closed	see circulation, but we stayed on SE side of suspect conten
· Loro (cool more	like easterly nove still.
Evaluation: (did	the experiment meet the proposed objectives?)
	. Yes
Problems:(list al	
	vortestation still has problems, probably while cond.
	GPS soudes were from switted but not received at NHC. Cloud
Expendables used	
GPS sondes :	3
AXBTs:	