Lead Project Scientist

Prefli	ght	
/	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.
1	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.
V	5.	Meet with AOC flight director and navigator at least 3 hours before take-off for initial briefing.
	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).
	7.	Before take-off, brief the on-board GPS dropsonde operator on times and positions of drop times.
/	7.	Make sure each HRD flight crew members have life vests
	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		
1	1.	Confirm from AOC flight director that satellite data link is operative (information).
1	2.	Confirm camera mode of operation.
	3.	Confirm data recording rate.
	4.	Complete Lead Project Scientist Form.
V	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	
V	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.]
V	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.
0	6.	Obtain a copy of the all VHS videos form aircraft cameras (3-4 approx.). Turn in with completed forms.
1	7.	Obtain a copy of CD with all flight data. Turn in with completed forms.
1	8.	Determine next mission status, if any, and brief crews as necessary.
V	9.	Notify MGOC as to where you can be contacted and arrange for any further coordination required.
7777	10.	Prepare written mission summary using Mission Summary form (due to Field Program Director a week after the flight).

Lead Project Scientist Check List

	,	/					
Date	9/26/	07	Aircraft	NYBRF	Flight ID	070976I	
Dute.	100	0 1	I AM CA CAL	17 11	I HELL IN	U IV I W	

A. Participants:

HRD	Amades Amades from Secon	AC	C
Function	Participant	Function	Participant
Lead Project Scientist	Curess	Flight Director	Alweida
Radar		Pilots	
	beighton	are interestable to the design of the database	clay, Nelson
Workstation	Leighten	Navigator	Bishon -
Cloud Physics	The state of the s	Systems Engineer	Lyach
Photographer/Observer		Data Technician	
/Guests	negative and maken the control	a 2 The surf-except Beind The story or	Peck
Dropwindsonde	1 sighton	Electronics Technician	5 midre
AXBT/AXCP		Other	heaff to the line of the line

B. Take-off and Landing Locations:

Take-Off:	1915	Location:	-	Sadondes
			-	1

Landing: 0427 Location: Berbachs

Number of Eye Penetrations:

C. Past and Forecast Storm Locations:

Date/Time	Latitude	Longitude	MSLP	Maximum Wind
26/152	11.9	42.9	wes Man sasti	60 64
27 (00 2	12.6	44.5	Report landing time arrive or a rather VIGCH	65 H
27/122	14.0	46.8	a terrel biograps of 3	75 let
28/002	15.5	48.5		75 kt
	7,500	Opinia to inspect and the	Today or 12 raps or middle	

D. Mission Briefing:

Fly butterfly pattern in T.S. Kaven in Support of 3-0

Doppler wind & wis sim. Keven to said has developed were annection wor its author

Ooppler wind & wis sim. Keven to said has developed were annection wor its author

Core this writing and is a border line humicome, thrugh it is experiencing westerly

shear as evident from I R imagery. Fly pattern at 10,000 fd, get fix for NHC at

shear as evident from I R imagery. Fly pattern at 10,000 fd, get fix for NHC at

shear as evident from I R imagery each of 3 passes.

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

Equipment	Pre-Flight	In-Flight	Post-Flight	# DATs / Cds /Expendables/ Printouts
Radar/LF				a sales
Doppler Radar/TA				
Cloud Physics				
Data System				
GPS sondes				
AXBT/AXCP	Magazantifiliani			
Workstation				
Videography				

REMARKS:		

Date 9/2667 Flight 070976 T LPS Rogers

Time	Event	Position	Comments
1915	takeoff	Barbadas	to least
1934	coder	\$ 00 am fromoti	change PRF 102900
2203	pattern	near IP, W of ston	m) no a weathin here, but
* A CORNEL TO SERVICE AND A CO		2014 Miles Anne Barrer (1902 State of State Original State of Control of Cont	showers about 50 -100 mm
Vine Capalities and C		ALCOHOLOGISTICS AND STREET	to the worth, descending
			to 16,000 ft. at 1A
220610	patern	105 nm Wf owler	of 18, FL 30 td, SF186
		Manager of the second section of the second section of the second section of the second section section second section section second section secti	Start folder 1291
2214	095.	70 a w w of center	# 23,5F28 HSFaFL
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2720	055,	45 MM Worder.	FL/SF 20.65-0.8 on this
- January	Exhibition 1994 (China) (China	The transfer of the second	16) 50 for
2226	partera	21 MM WEST.	turning left 20day,
() () () () () () () () () ()		TO AND THE PROPERTY OF THE PRO	strulents like it's glower
Kontagues	The state of the s	CO YOU COMPANY CO. COMPANY COM	a forther north, track 70
2228	0/05.	15 MM Wof ofr.	FL 25, 5F 40 Ft.
233	065.	12.8,44,29	SF confor reached, PC
			conster coming up, hispland
223504	trap	12048/44013/	Couter drop, No
			Mars Fuiras 35Et, max.
and the second second second second second		And in the contraction for the A.Counted and applications of professional recommendations and applications and the contraction of the contraction	PLuids 75 Et on Wside ,
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Special of the state of the sta		CONTRACTOR OF THE PROPERTY OF	strinds; peatorings
Marine Ma		The state of the s	at PZ GOK+, SF 45K+;
			PL peak nyo non-froncate
2249	803	12041 43081	vide need convection of
			, good tail coverage

stat PLI

LPS fragers Date 9/26/07 Flight 070926 I

Time Position Event Comments erd RL 1 pattern 2300 10 122 mm E of tern tetrack 330 evol of RLI FYSFN1,4, has been Nos on downing la 230214 on which of Eside of midwaythry videspread strat. 2506 Low pel briunted precip, embedded sometim on this WESID side of storm on downirolly rodors lected up, 231602 rodor pattern turn to frack 200; 25 number. 232800 extended legal it to pass rear convertive cell at turn point begin rater lag 2 obs 35 mm NE ctr 235126 widespread convectory on NEside, FLNGOLA, SF 50-60 Kt 1 pak FL 70 Ft, ceak 5F65 Kt torn 5 MM NECT turn to track 270, lakely 235555 for center

Date 9/26/07 Flight 070926 I LPS Rigers

Time	Event	Position	Comments
00 0039	center, from Z	1255 44 34	FL winds no, sf wind
The second secon		WAX X	All about 30 H and i
William I I		maintainin ann ann ann ann ann ann ann ann an	11. St conter desplace
	Comments and the second of the	to	5W of Ficenter
0008	obs		Max FC 6864, 5 F
		Augitimenter Parisson (File of the Complete of the State Paris)	63 Hon NEside
0014	ohs	45 MM SW Off.	FL Max inward of
			SF wax, Fe wax
			35 kt, sf 25 on sw
	auth Mille (all ann an e-duntour am h-duntour agus ann again ann an t-duntour agus ann agus ann an t-duntour a		side; convection.
The second secon			uneaffic; nothing
The same of the sa	and continued the state of the	on Sw side	J
2500	turn	young of	subrador by 2, turn
* Oracle or a processor of the state of the		gegreen (E. S. State College of green and an artist of the College	to track 90
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otexo	200	A	no precipibere,
			unced banding featur
A STATE OF THE PARTY OF THE PAR		to east as	out 100-150km east
A CONTRACTOR CONTRACTO		PL 5064	
0110	turn	Wamsedr.	searchingfor FL ctr

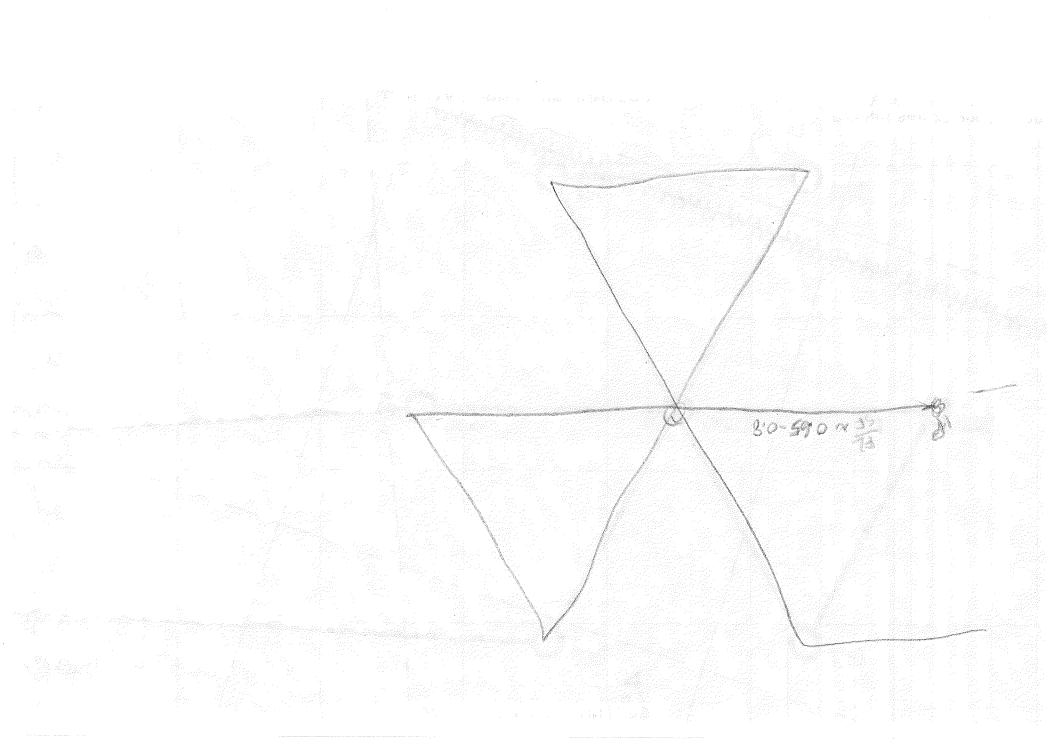
sudfla

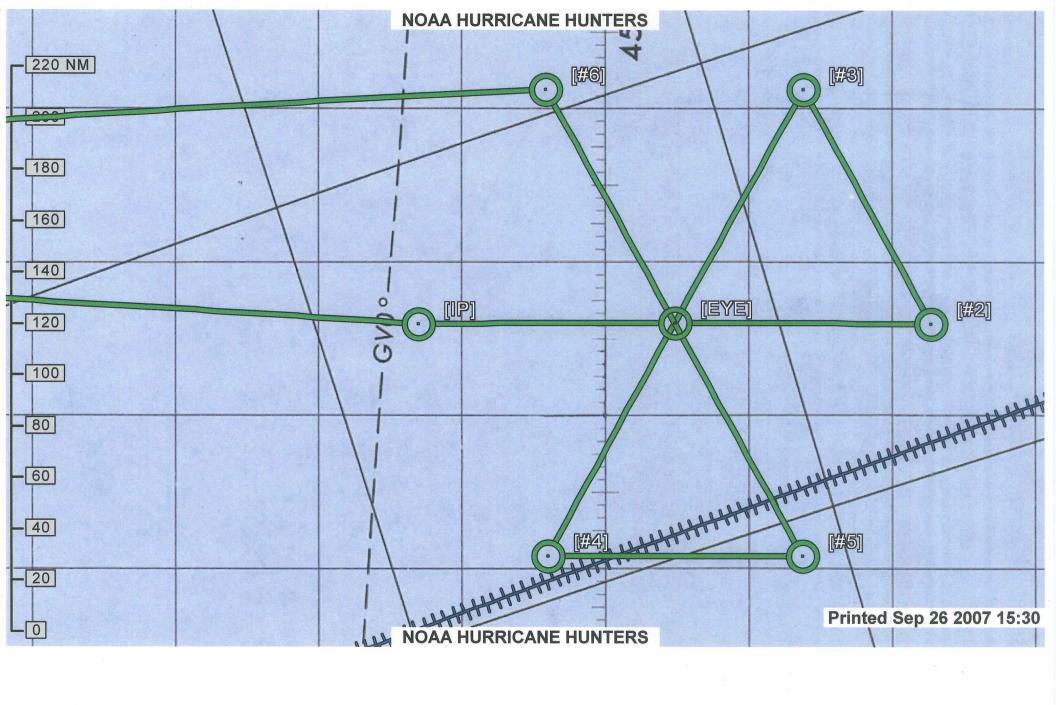
Date 9/26/07	Flight 07.09.26 I	LPS Figes
	0	

Time	Event	Position	Comments	
011537	center fix Arro3	13° 2' 44° 47'	5 Fwind 25 ft too; 990	70
0(23	065	50 MM November	MOXFL WINGS 50 KM,	
			of 62 kt on ww side at FP, turning home	
0 (38 26	4WN		at FP, turning home	-
0427	land	Borbados	land in Barbades	
laka per je				
	d- ref			
		11 - 2 - 1 - 2 - 1 - 2 - 2 - 2 - 2 - 2 -		
		G-1 - 11	144	

Mission Summary Storm name YYMMDDA# Aircraft 43RF

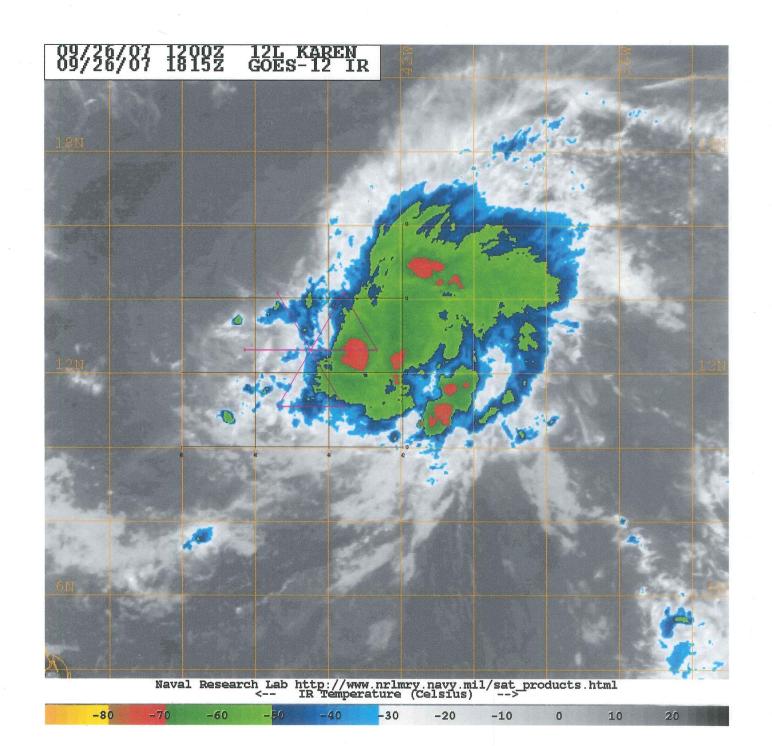
Scientific Crew (43RF) Lead Project Scientist
Workstation Scientist
Mission Briefing: (include sketch of proposed flight track or page #)
See previous
Mission Synopsis: (include plot of actual flight track) for Pater was flown generally as downed. How showed is gniticent asymmetries with converting rearly completely die placed from stepter author FLUSF winds showing variation. Hed in their ratio across the storm, of droppondes at center showing step whole below fright-land. Hed for deviate a few times to word con vection. Storm was aroning stightly relower a wore for deviate a few times to word con vection. Storm was aroning stightly relower a wore for deviate a few times to word con vection. Storm was aroning stightly relower a wore Evaluation: (did the experiment meet the proposed objectives?) 3 center drops was 997.8 " Eystreon was strongly sheared. There were a bumdownt System was strongly sheared. There were a bumdownt so peak FL winds were 62 kt. Scatters on the worth a cost sides, and Popp for another so peak FL winds were 62 kt. See able to be conducted. compled with Ingrid frights, these pale of were 62 kt. Systems out a matrix of shored vertices of verying instance, if (albert weaker than
rere able to be conducted. Compete or transfer of vorying intensity (albert weater than should map out a matrix of showed vortices of vorying intensity (albert weater than should map out a matrix of showed vortices through). This could be of some value to FMC, Problems: (list all problems) and possibly to research community.
no problems
Expendables used in mission: GPS sondes: AXBTs: Sonobuovs:
Sonobuoys: O

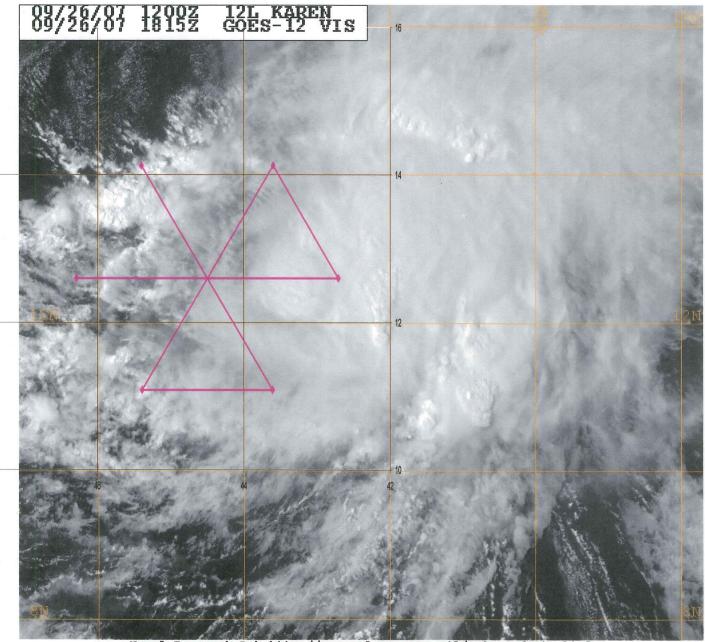




Turn Pt	Type	Fix/Point	Latitude	Elev	Aspd	Calc Bank	Altitude	Temp	MH	TH
	DTD	Description	Longitude	MV	Bank	Time Adjust	Wind	FF	MC	TC
1	ST	TBPB/A	N 13 04.48	169FT		0	169M	-15C	091	076
*M		GRANTLEY ADA	W059 29.55	15.2W		0.0		0	091	076
2		TR002270105	N 12 35.64	unk	290T	0	15000M	-15C	106	091
*M	IP		W046 17.38	18.0W		0.0		0	106	091
3		none	N 12 36.00	unk	290T	0	5000M	+5C	108	090
*M	EYE	none	W044 30.00	17.9W		0.0		0	108	090
4		TR003090105	N 12 35.64	unk	290T	0	5000M	+5C	108	090
*M	#2		W042 42.62	17.8W		0.0		0	108	090
5		TR003030105	N 14 07.24	unk	290T	0	5000M	+5C	348	330
*M	#3		W043 35.98	17.5W		0.0		0	348	330
6		TR003210105	N 11 04.57	unk	290T	0	5000M	+5C	228	210
*M	#4		W045 23.39	18.2W		0.0		0	228	210
7		TR003150105	N 11 04.57	unk	290T	0	5000M	+5C	108	090
*M	#5		W043 36.61	18.2W		0.0		0	108	090
8		TR003330105	N 14 07.24	unk	290T	0	5000M	+5C	348	330
*M	#6		W045 24.02	17.7W		0.0		0	348	330
9		TBPB/A	N 13 04.48	169FT	290T	0	5000M	+5C	285	267
*M		GRANTLEY ADA	W059 29.55	15.2W		0.0		0	285	267

09/26/07 15:25:00





Naval Research Lab http://www.nrlmry.navy.mil/sat_products.html <-- Visible (Sun elevation at center is 32 degrees) -->