0709 MI

Rogers

Lead Project Scientist

Prefli	_	
1	1.	Participate in general mission briefing.
	2.	Determine specific mission and flight requirements for assigned aircraft.
1	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.
1	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.
V	7.	Make sure each HRD flight crew members have life vests
<u>/</u>	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-Flig	ght	
V	1.	Confirm from AOC flight director that satellite data link is operative (information).
/	2.	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	ight	
_	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.
114500	8.	Determine next mission status, if any, and brief crews as necessary.
1	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

Date a (1407 Aircraft N43 ff Flight ID 070914T	State
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A. Participants:

HRI		AC	OC
Function	Participant	Function	Participant
Lead Project Scientist	Rogers	Flight Director	Almeida
Radar		Pilots	h
	Black, Rogers		Chay Nelson
Workstation	Black	Navigator	siegel
Cloud Physics	The more execution in	Systems Engineer	Lynch
Photographer/Observer	***************************************	Data Technician	Table . U
/Guests	esciptive and compared to some of		5 mi Th
Dropwindsonde	Black	Electronics Technician	Sanstruci
AXBT/AXCP	Comment at Il Tall In	Other	ino it is a second

B. Take-off and Landing Locations:

T 1 OCC 1	ari 0	7	T	Borbados
Take-Off:	999	£	Location:	1201 bados

			1
Number of	f Eve	Penetrations:	()

15.7 50.8 002

C. Past and Forecast Storm Locations:

Date/Time	Latitude	Longitude	MSLP	Maximum Wind
14/15 2	15.2	50.0	Behmi Franchie i - en -	40 64
15/002	15.5	50.8	krafti imit yribiai mych Alfru Teath	35 H
15/122	16.5	52.2	riedlosees alid	35-kt
and the second s		10.00 MOA with more to a second as a		
	-amod hard	tameno profesiona i i ingles La	the feet of the special regions)-

D. Mission Briefing:

Fly rotating Fig. 4 pottern in support of 3.D Doppler

Winds experiment. Leg levestus loo am, sit up IP Swof storm, endup north

of storm. Prop Fordes on diagonal legs, at and points and 13 + 213 of distance

on each radial. On 24 Fig. -4, along coordinal directions, descend to 10,000ft. and get

a fix for N 4C on each pass.

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

Equipment	Pre-Flight	In-Flight	Post-Flight	# DATs / Cds /Expendables/ Printouts
Radar/LF	V	-		
Doppler Radar/TA	V			to receive the sun.
Cloud Physics			4	
Data System				
GPS sondes				
AXBT/AXCP				
Workstation				
Videography	1			

D	T	TA /	Γ Δ	TO	K	a	_
K	H,	IVI	A	K	N.	9	

15 uo 50 37

begin radar

Lead Project Scientist Event Log

Date 4/14/07 Flight 0709/41 LPS Rogers

Time	Event	Position	Comments
1949	talceoff	Berbudge	Jakeeft
2112	rlag	Gorm Swof ip	bands visible on (Fifteen
		And the second s	got, nost desponnedim
		and which the second of the Samuel Sa	will be on st site of
The second secon	The state of the second section of the section of the second section of the section of the second section of the secti		putern, some scateres
The annual desiration of the latter of the l		THE RESIDENCE OF THE ASSESSMENT A	on Wside too though
2129	obs	rear (P	approach it, good southerers
			on left (NW) sike
			of Plana
213114	dool	wormfrometr.	SF 15, FL 10
2137	005	7/ nm Swaff	2 bands on Sw side,
2138	garby -		decent scotterers here
		66 nmswatr	FL10, SF20
2196	drap 3	33 nm swets.	FL 10,5F 20
2153	olos	2 nw swot	SE winds have consistently
-			been about 10th
		and distinctions after the second state of the	higher than FL onthis
- I commence and the second se	en productive de la company de		legs
27-00	ohs	28 MM NECT.	FL winds have now become
n			much astrivals have
			now switched, W/FC winds
		abr	ut 10-15 let higher than 5 fiv
220142	drap4		FC 40,5F 25
2206	809	53 nm NEdr.	real wirds; SW: FL 3064,
Constitution	interference (see year mining develop against place to a construction of the construct		GF YOLF; NE: FL YSE
			5F28kt
2269	0605	66 NUNEUR	FL 32, 5F20 L+

50 26 Skt

50 Date 9/14/0-

Lead Project Scientist Event Log

Flight 0 709 14 I

LPS Rugers

		200		
186+	Time	Event	Position	Comments
	221154	dos	80 nm NEdr.	conter not easy to
	National Conference on the Con			find
t endrodlog1	221652	Jap 6	100 nm NEcts.	FL 25,5F10
E.	224852	fun		
Sort rolled	224858	drap 7	100 nm NW cfr.	FL 30,5 F 20 Et
	225733	drop 8	63 nu NWoth.	PL 30, SF 22 H
16%	230140	obs	46 nm NVAr.	little to no rainoin
T	0 = 0 = 0			Nov side; FL75F
V	0.8/2			Winds for first 60
				non fleg, row both are
R	- Committee of the Comm	nonegla sea e astra reum autorospones atravar um um hard pilon filotosus autoritat reusta	manuscriptus (International Control Co	some value
	230515	drep a	33 nu west.	FL 35, SF 25 Fd
	2313 28	0/05	rear supposed off.	passel thruder.
	The second secon			yed New 30 kg St dropped
	and the second s		fo Zo, w/dh	inddir, ESE weams were
	and a service of the second section of the section of the second section of the section		- missed other	it was of to air ig wit
			hitting some	bumps, some convert
			aff to right o	talc
	2322	Arap 10	33 NMSE of.	FL 28 15 F 28 64
	2331	drop 11	80 amsE	PL 20, 5 F 24 Ex
	2339	drap 12	105NMSE	FCZO, SF 5 Et

15.	8	9)	
15.	-	2	n	
31	~	1		1

Lead Project Scientist Event Log

1007,9

Date 9(141(07

9402 [and

Flight 0.709142

LPS Rogers

	Time	Event	Position	Comments	
and radleg 2	2339	pattern	105 nous Edr.	tern to drack o	
fortradleg 3	2356	pattern	100 nm Ectr.	turn to frack 270	
	0014		manuscripture of the Control C		
	002013	pattern	12 nu Ectr	turn to track 235	
	002430	partern	15 7 794	tern to 240	
- 44	7002828	drap 13	near supposed of.	FL8,5F0 bt	
	6037	865	~50 naw of con	very deflatt to And	
4	N. A.		a con	er; soms possible that	
			SF center	is to N of Flotr, la	+
L . s			never reall	y found zero who at	
			- Flience	ountering	
	0047	06	100 nm W of dr	ocenteral drap showed	
	at well have by	1 hall to proceed	nirdy Llw FLat	150 mb as easterly, blu	
	I S AT ACTION		800 a Sfe. shift	ed to westerly; that's consi	stent
	John John	2.11	sulve astron a Atin	efc, center's displaced Si	ifflo
Mot 43	0053	Pattern	115 rms of of.	turn to truck 135	
protof RLY	al 25	pattern	100 nonsofat	turn to track 0	
y 55, (- t	0128	proten	85 nm Softer	deviate to face 25 to	
		4		puch through live	
) - ;			ofus athen parallelit	
				get back to track o	

Barbadus Cend in Barba

Date alcylor

Lead Project Scientist Event Log

Flight	0.	709	ILI	

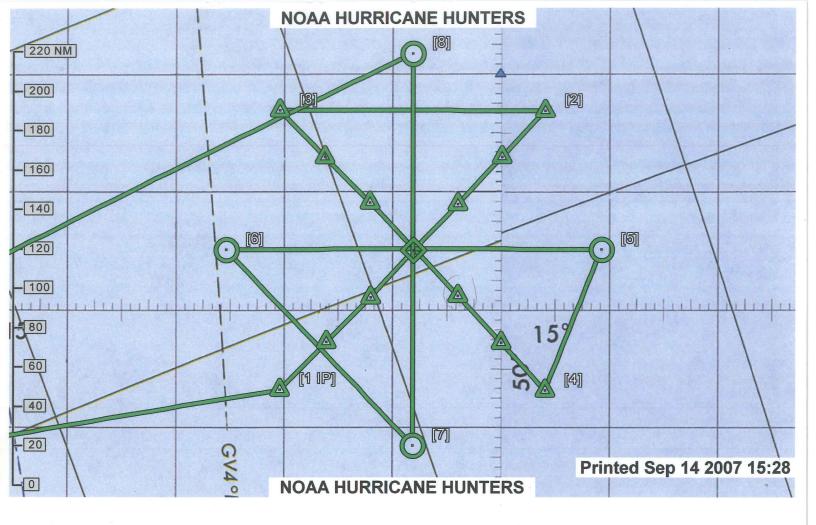
LPS Rugers

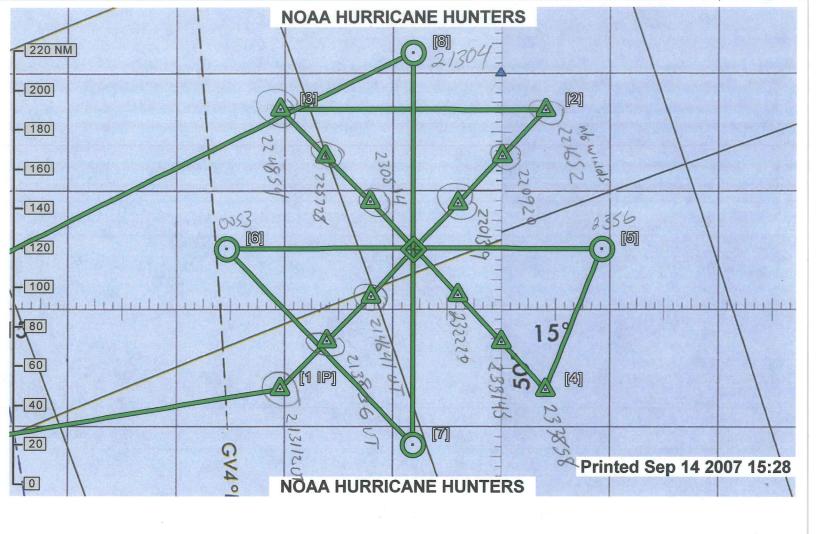
Time	Event	Position	Comments
013554	olos	58 am SFEctr.	heavy stratitions on
			de of alc, purching the
		live	
0138	pudery	34 nm SE	turn to trade 330
0142	pattern	31 nm s sE	track 320, about
			20 nm East of line of
			convection
0156	005	23 nm Nofetr	SFuinds went to o.
and the second second second second			PC wird stayed at 30/44
		- with SE	wirds, suggesting vert
Control control and the second control of th			l found the Nw with
And the state of t		- height	
021304	pattern	100 mg Nofet	of FP, handery borne
			re convertinos
		ALC: 1	this sitle
a sh shept it	e si e e e e e e e e e e e e e e e e e e	au e' i i	46.
		Series - Free	
			M. S. T.

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Mission Summary Storm name YYMMDDA# Aircraft 43_RF

	Scientific Crew (47RF) 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) fler votating figure of as
	plenned, were several instruces where we had to deriate from
	for red track to avoid convection. Center was very herd to find, never
	really able to find it. System was evidently tilted, withe surface but displaced to the north or vertheast of clight level center. Connection was
	Evaluation: (did the experiment meet the proposed objectives?) Mesty South & Southerst
	Did accomplish collection of Apples, though of senter, some estrationmorous southeast with.
Llu-0	vere occosioned obvictions due to convection and center-finding. Challenging
caco t	In automated Doppler processing, and for couter finding ac well due to the
shear,	reat, disorganized system. May make an interesting as for study of response of Problems: (list all problems) a worker weak under strongs hear and pass. We
wind	no major problems, over on NE wel trable w/w.vds. Couldn't keep is in editrovele, but can probably retrieve it on post-processing.
	Expendables used in mission:
	GPS sondes: AXBTs:
	Sonobuoys:





urn Pt Type	Fix/Point	Latitude	Elev	Aspd	Altitude	Temp	МН	TH	Leg Time
DTD	Description	Longitude	MV	Bank	Wind	FF	MC	TC	Clock Time
1 ST		N 13 04.48	169FT		169M	-25C	091	076	00+00+00
*M	GRANTLEY AD	W059 29.55	15.2W		0000084	0	091	076	00:00:00
2		N 13 10.00	unk	270T	20000M	-25C	094	079	00+06+31
*M		W059 00.00	15.4W	070T	4000014	0	094	079	00:06:31
3 TG		N 14 29.75	unk	270T	12000M	-9C	094	078	01+34+44
*M 1 IP		W051 49.51	17.3W		4000001	0	094	078	01:41:15
4 TG		N 14 52.87	unk	270T	12000M	-9C	063	046	00+07+21
*M		W051 25.03	17.3W			0	063	046	01:48:36
5 TG		N 15 15.99	unk	270T	12000M	-9C	063	045	00+07+16
*M		W051 00.99	17.3W			0	063	045	01:55:52
6 VP	Bullseye11	N 15 40.00	unk	260T	12000M	-9C	061	044	00+07+41
*M		W050 37.00	17.3W			0	061	044	02:03:33
7 TG		N 16 03.05	unk	260T	12000M	-9C	063	045	00+07+32
*M		W050 12.90	17.3W			0	063	045	02:11:05
8 TG		N 16 27.39	unk	260T	12000M	-9C	062	045	00+07+56
*M		W049 47.54	17.3W			0	062	045	02:19:01
9 TG		N 16 50.51	unk	260T	12000M	-9C	063	046	00+07+40
*M 2		W049 22.62	17.3W			0	063	046	02:26:41
10 TG		N 16 50.51	unk	260T	12000M	-9C	288	270	00+33+00
*M 3		W051 51.70	17.1W			0	288	270	02:59:41
11 TG		N 16 26.98	unk	260T	12000M	-9C	151	134	00+07+48
*M		W051 26.34	17.2W			0	151	134	03:07:29
12 TG		N 16 03.05	unk	260T	12000M	-9C	152	135	00+07+48
*M		W051 01.43	17.2W			0	152	135	03:15:17
13 TG		N 15 16.40	unk	260T	12000M	-9C	152	134	00+15+17
*M		W050 12.46	17.4W			0	152	134	03:30:34
14 TG		N 14 52.06	unk	260T	12000M	-9C	153	136	00+07+49
*M		W049 47.98	17.5W			0	153	136	03:38:23
15 TG		N 14 28.53	unk	260T	12000M	-9C	152	135	00+07+42
*M 4		W049 23.50	17.6W			0	152	135	03:46:05
16		N 15 39.12	unk	260T	12000M	-9C	040	022	00+17+34
*M 5		W048 53.33	17.4W		12000111	0	040	022	04:03:39
17		N 15 40.33	unk	260T	12000M	-9C	288	271	00+46+08
*M 6		W052 20.55	17.1W	2001	12000141	0	288	271	04:49:47
18		N 13 59.73	unk	260T	12000M	-9C	152	135	00+32+39
*M 7		W050 37.38	17.5W	2001	ZUUUN	0	152	135	05:22:26
19		N 17 20.12	unk	260T	12000M	-9C	018	360	00+46+03
A STATE OF THE PARTY OF THE PAR			17.1W		12000101	0	018	360	06:08:29
*M 8		W050 36.94	unk	290T	12000M	-9C	262	245	01+52+04
20		N 13 20.00		2901	12000101	-90	262	245	08:00:33
*M	TDDD/A	W059 00.00	15.4W	200T	1200084	-9C	257	245	00+06+46
21	TBPB/A	N 13 04.48	169FT	2901	12000M	and the factor of the same			
*M	GRANTLEY ADA	VV059 29.55	15.2W		and the state of t	0	257	242	08:07:19

09/14/07 16:36:42

urn Pt	Туре	Fix/Point	Latitude	Elev	Aspd	Altitude	Temp	MH	TH	Leg Time
	DTD	Description	Longitude	MV	Bank	Wind	FF	MC	TC	Clock Time
1	ST	TBPB/A	N 13 04.48	169FT		169M	-25C	091	076	00+00+00
*M		GRANTLEY ADA		15.2W			0	091	076	19:52:40
2			N 13 10.00	unk	270T	20000M	-25C	094	079	00+06+31
*M			W059 00.00	15.4W			0	094	079	19:59:11
3	TG		N 14 29.75	unk	270T	12000M	-9C	094	078	01+34+44
*M	1 IP		W051 49.51	17.3W			0	094	078	21:33:55
4	TG		N 14 52.87	unk	270T	12000M	-9C	063	046	00+07+21
*M			W051 25.03	17.3W			0	063	046	21:41:16
5	TG		N 15 15.99	unk	270T	12000M	-9C	063	045	00+07+16
*M			W051 00.99	17.3W			0	063	045	21:48:32
6	TG		N 16 03.05	unk	260T	12000M	-9C	062	045	00+15+13
*M			W050 12.90	17.3W			0	062	045	22:03:45
7	TG		N 16 27.39	unk	260T	12000M	-9C	062	045	00+07+56
*M			W049 47.54	17.3W			0	062	045	22:11:41
8	TG		N 16 50.51	unk	260T	12000M	-9C	063	046	00+07+40
*M	2		W049 22.62	17.3W			0	063	046	22:19:21
9	TG		N 16 50.51	unk	260T	12000M	-9C	288	270	00+33+00
*M	3		W051 51.70	17.1W			0	288	270	22:52:21
10	TG		N 16 26.98	unk	260T	12000M	-9C	151	134	00+07+48
*M			W051 26.34	17.2W			0	151	134	23:00:09
11	TG		N 16 03.05	unk	260T	12000M	-9C	152	135	00+07+48
*M			W051 01.43	17.2W			0	152	135	23:07:57
12	TG		N 15 16.40	unk	260T	12000M	-9C	152	134	00+15+17
*M			W050 12.46	17.4W			0	152	134	23:23:14
13	TG		N 14 52.06	unk	260T	12000M	-9C	153	136	00+07+49
*M			W049 47.98	17.5W			0	153	136	23:31:03
14	TG		N 14 28.53	unk	260T	12000M	-9C	152	135	00+07+42
*M			W049 23.50	17.6W			0	152	135	23:38:45
15			N 15 46.46	unk	260T	12000M	-9C	029	011	00+18+16
*M	5		W049 07.30	17.4W		12000	0	029	011	23:57:01
16	VP		N 15 48.00	unk	260T	12000M	-9C	288	271	00+27+45
*M			W051 12.00	17.2W			0	288	271	00:24:46
	VP	Bullseye11	N 15 24.00	unk	260T	12000M	-9C	230	213	00+06+34
	0027		W051 28.00	17.3W	_00,	.2000141	0	230	213	00:31:20
18	3021		N 15 23.77	unk	260T	12000M	-9C	287	270	00.31.20
*M	6		W053 10.89	17.0W	2001	12000101	0	287	270	00:54:16
19			N 13 43.38	unk	260T	12000M	-9C	152	135	00.34.10
*M	7		W051 27.98	17.4W	2001	12000101	0	152	135	01:26:52
20			N 17 04.15	unk	260T	12000M	-9C	017	360	01.20.52
*M	8		W051 27.98	17.1W	2001	12000IVI	0	017	360	02:13:00
21	9		N 13 20.00	unk	290T	12000M	-9C	261	244	01+41+31
*M			W059 00.00	15.4W	2301	12000101	0	261	244	03:54:31
22			N 13 04.48	169FT	200T	1200084	-9C	257	244	00+06+46
22			W059 29.55	15.2W	2901	12000M	0	257	242	04:01:17

09/14/07 22:59:25