

1981090711-LPS

Form E-1
Page 1 of 5

On-board Lead Project Scientist Checklist

DATE 07

AIRCRAFT 43

FLT 8109071

A. Participants

Function	Participant	Function	Participant
Lead Proj. Sci.	<u>WILLOUGHBY</u>	Gust Probe	
Cloud Physics	<u>WILLIS</u>	Omegasonde	
AXBT		Sys Eng	
Hot Film		Data Tech	<u>PARADIS</u>
Radar	<u>STAFFEN / WIGBERT</u>	El Tech	<u>COLDATEIN</u>
Flt Dir/Met	<u>HAYDU</u>	Other	<u>FENNELL</u>
		PILOTS	<u>TICKNOR / BENZLINGER</u>
Take Off <u>0955Z</u>	Location <u>M117</u>	Landing	Location

B. Past and Forecast Storm Position

Date	Time	Latitude	Longitude	MSLP	
<u>06</u>	<u>2219Z</u>	<u>26° 15'</u>	<u>69° 11'</u>	<u>979</u>	<u>9=C20</u>
<u>07</u>	<u>0500</u>	<u>27° 23'</u>	<u>69° 04'</u>	<u>979</u>	<u>9=C20</u>
<u>07</u>	<u>1200Z</u>	<u>28.2</u>	<u>68.9</u>		<u>85KT MAX WND</u>

9 IS OPEN
E-S

C. Mission Briefing

VORTEX BY VOICE

FLY RAINBAND EXPERIMENT GET 12 3 18Z FIVE

D. Equipment Status

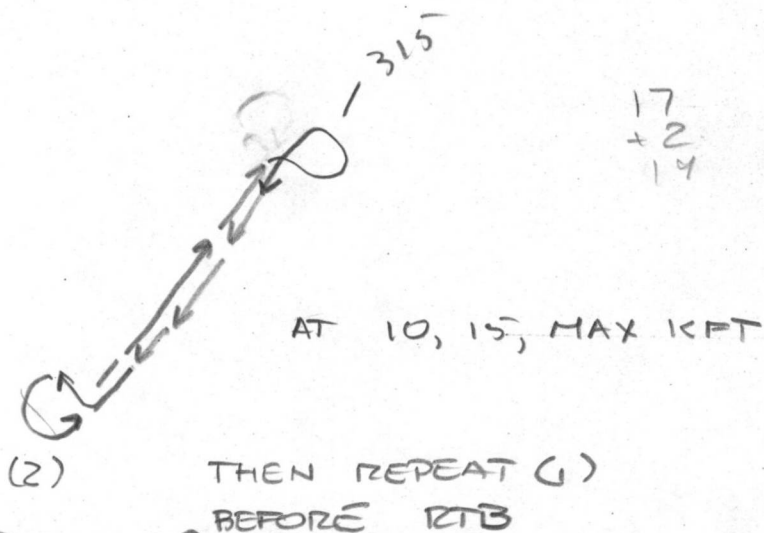
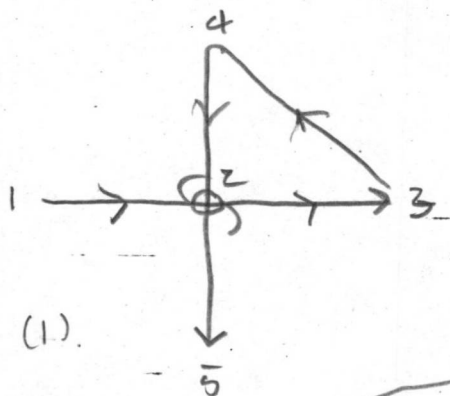
<u>Equipment</u>	<u>Pre Flt</u>	<u>In Flt</u>	<u>Post Flt</u>	<u>Reports Collected</u>
Aircraft	↑	↑	↑	
Radar	↑	↑	↑	✓
Cloud Physics	↑	↑	↑ *	✓
Data Sys	↑	↑	↑	✓
Omegasondes	NOB			
AXBT	NOB			
Gust Probe	NOB			
Hot Film	NOB			
Photography	↑	↑	↑	

REMARKS PROBLEMS WITH WINDS ON APPROACH TO STORM. CONSTANT 4 IN DATA SYSTEM FOR US WAS .03 VICE .04 CORRECTED ABOUT 071250 GMT. THIS SHOULD BE OK IN RFC STD TAPE SINCE ONLY RAW DATA GOES ON TAPE.

* J/W APPARENTLY BAD

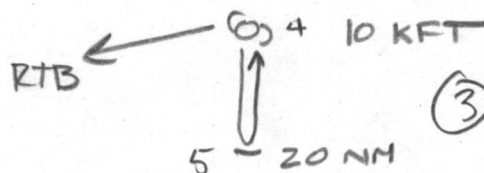
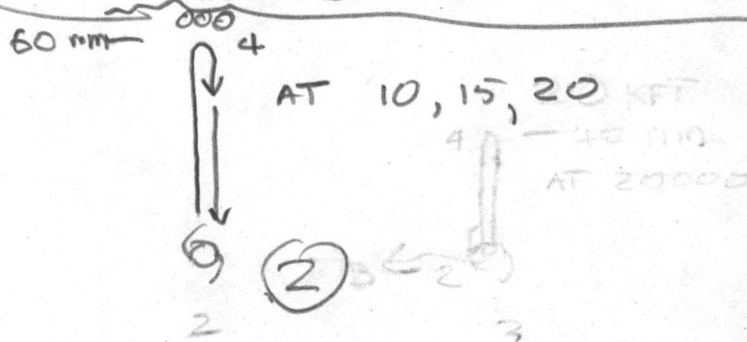
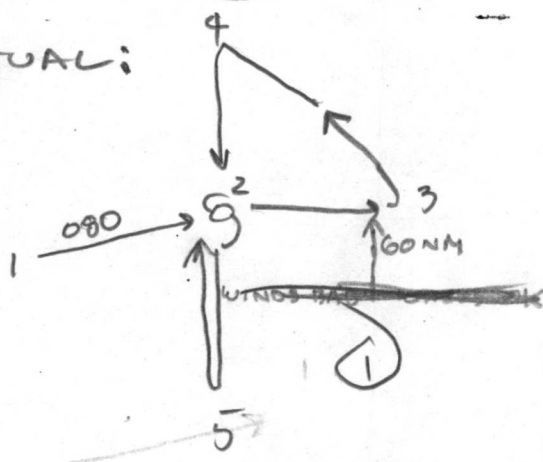
E. Proposed and Actual Flight Patterns

PROPOSED:



17
+ 2
14

ACTUAL:



HURRICANE RECCO PLOTTING CHART

TRUE AT 25° LATITUDE, IN DEGREES AND MINUTES OF ϕ AND λ

30 20 10		50 40 30 20 10		50 40 30 20 10		50 40 30 20 10		50 40 30 20 10		50 40 30	
30											30
20											20
10											10
50											50
40											40
30											30
20											20
10											10
50											50
40											40
30											30
20											20
10											10
50											50
40											40
30											30
20											20
10											10
50											50
40											40
30											30
20											20
10											10
50											50
40											40
30											30
30											30
20											20
10											10
50											50
40											40
30											30

DATE _____ LONGITUDE _____ OBSERVER _____

NOTE: Label full degrees according to location of flight area

DATE 07 SEP 1981

FLIGHT 810907I

LPS WILLOUGHBY

110 KT
467
2870 18 5.5

Lead Project Scientist Event Log

1 of 20 NM

EVENT	TIME*	POSITION	COMMENTS**
AIRBORNE	070955Z	MIA	ALL SYSTEMS A OK HUNKEY-DORY
	1140Z	—	RADIO CHECK WITH DPJ ON 42
AT 700 MB	1202Z	28.18 69.33	EYE 60 NM ON RADAR WIND 294/25 M 5' 1→2
IN EYE	1226	28.5 68.5	IN 9 HAVE WIND PROBLEM 20 M/S TAILWIND
HDE 090	1234		TRACIC 090 OUT FROM 9 2→3
TRACK 315	~1250		DARBY APPEARS TO 3→4 HAVE FIXED WINDS BY CHNG CONST
TRACK 180	1302	29.39 68.39	WIND 4→2
9	1314	28.67 68.45	CLP 075 9 HDNE S FROM 9 2→5
BACK TOWARD 9	~1345	27.87 68.47	TURN N 5→2 (DATA SYS DOWN INTERMITTANTLY)
9	1356		SET UP RACETRACIC 000-180 2→4
4	132Z		HDE DOR 9
2-9	1446	28.85 68.29	
AT 15000' IN EYE	1501		HDNE N 2→4 AT 15000'
	~1530		HDNE 4→2 AT 15000'
4-9	1550	29.0 68.10	IN EYE
2→4	1612		OUT OF 9 TO N
4-2	1624	29.91 68.13	BACK TO 9
2→5	1646		OUT TO S OF EYE AT 10000 FT
5→2	1651		BACK TO 9
9	1656	29.14 68.12	DATA FOR FIX

*Log times of all significant altitude changes, turns, and eye fixes.

**New altitude, heading, center position, etc.

DATE _____

FLIGHT _____

LPS_____

Lead Project Scientist Event Log

[illegible]

*Log times of all significant altitude changes, turns, and eye fixes

**New altitude, heading, center position, etc.

FLIGHT LOG

Date: 9/07/81

Flight Identification: 810907I

Aircraft: RFC 43

Departed: 0945Z

Arrived: 1943Z

Purpose: RACE TRACKS 10k , 15k , 20k

Pattern: 3 RACE TRACKS AND ONE RUN 30 NMI TO THE SOUTH AND BACK
(10,15,20K)

TAPE LOG

<u>TAPE TYPE</u>	<u>NUMBER</u>	<u>FROM [DAY/TIME (Z)]</u>	<u>TO [DAY/TIME (Z)]</u>
RFC Standard	1	0947	1943
Original	1	0946	1943
Knollenberg	25	1145	1728
OTHER			
VTR	2	1110	N/A
RADAR	10	1002	1449

EQUIPMENT STATUS:

<u>SYSTEM</u>		<u>STATUS / UP</u>	<u>DOWN</u>	<u>NOT USED</u>	<u>REMARKS</u>
NAV	INE 1	X			
	INE 2	X			
	ONE				
	DOPL				
RADAR	NOSE	X			
	LF		X		
	TAIL	X			
	DATA SYSTEM	X			
RAMS	DATA SYSTEM	X			JIW APPARENTLY BAD
	TOTAL TEMP. 1	X			
	TOTAL TEMP. 2	X			
	DEWPOINT	X			
	ATTACK ANGLE	X			
	SLIP ANGLE	X			
	ABS. PRESS.	X			
	DIFF. PRESS.	X			
	RADAR ALT.	X			
	J & W	X			
PMS	OAP 2DP	X			
	OAP 2DC	X			
	FSSP 100	X			
	DATA SYSTEM	X			
IPC					
FOIL				X	
CO ₂ RADIOMETER		X			
MICROWAVE RADIOMETER		X			
SFC. RADIOMETER		X			
FORMWAR				X	
PHOTOGRAPHY	FWD	X			
	LS	X			
	RS	X			
	DWN	X			
	RADAR	X			
AXB	TUBES			X	
	RECEIVERS			X	
ODW				X	
SEEDER				X	

CENTER FIXES
FLOYD 810907H1 —

123259	28.59N	68.57W
132530	28.67N	68.51W
140043	28.72N	68.44W
171000	29.23N	68.11W

FLOYD 810907I1 —

121447	28.58N	68.53W
135600	28.71N	68.52W
144700	28.81N	68.32W
155000	29.06N	68.16W
164004	29.10N	68.06W

FORM CD-14 (2-76) Prescr. by DAO 214-2	U.S. DEPT. OF COMM.	DATE 9/22/81														
TRANSMITTAL SLIP																
TO: HARLAN DAVIS		REF. NO. OR ROOM, BLDG.														
FROM: BILL ADAMS (NHRL)		REF. NO. OR ROOM, BLDG.														
ACTION																
<table border="0"> <tr> <td>☐ NOTE AND FILE</td> <td>☐ PER OUR CONVERSATION</td> </tr> <tr> <td>☐ NOTE AND RETURN TO ME</td> <td>☐ PER YOUR REQUEST</td> </tr> <tr> <td>☐ RETURN WITH MORE DETAILS</td> <td>☐ FOR YOUR APPROVAL</td> </tr> <tr> <td>☐ NOTE AND SEE ME ABOUT THIS</td> <td>☐ FOR YOUR INFORMATION</td> </tr> <tr> <td>☐ PLEASE ANSWER</td> <td>☐ FOR YOUR COMMENTS</td> </tr> <tr> <td>☐ PREPARE REPLY FOR MY SIGNATURE</td> <td>☐ SIGNATURE</td> </tr> <tr> <td>☐ TAKE APPROPRIATE ACTION</td> <td>☐ INVESTIGATE AND REPORT</td> </tr> </table>			☐ NOTE AND FILE	☐ PER OUR CONVERSATION	☐ NOTE AND RETURN TO ME	☐ PER YOUR REQUEST	☐ RETURN WITH MORE DETAILS	☐ FOR YOUR APPROVAL	☐ NOTE AND SEE ME ABOUT THIS	☐ FOR YOUR INFORMATION	☐ PLEASE ANSWER	☐ FOR YOUR COMMENTS	☐ PREPARE REPLY FOR MY SIGNATURE	☐ SIGNATURE	☐ TAKE APPROPRIATE ACTION	☐ INVESTIGATE AND REPORT
☐ NOTE AND FILE	☐ PER OUR CONVERSATION															
☐ NOTE AND RETURN TO ME	☐ PER YOUR REQUEST															
☐ RETURN WITH MORE DETAILS	☐ FOR YOUR APPROVAL															
☐ NOTE AND SEE ME ABOUT THIS	☐ FOR YOUR INFORMATION															
☐ PLEASE ANSWER	☐ FOR YOUR COMMENTS															
☐ PREPARE REPLY FOR MY SIGNATURE	☐ SIGNATURE															
☐ TAKE APPROPRIATE ACTION	☐ INVESTIGATE AND REPORT															

COMMENTS:

☆ U.S.GPO:1977-0-765-092/1118

HARLAN,

LORRAINE KELLY ASKED

ME TO GIVE THIS TO YOU WHEN
I GO TO RFC. DON'T KNOW WHEN
I'LL BE OVER THERE - SO
DECIDED TO MAIL IT

SEPT. 1981

[illegible]

FLOYD

810907H1

09:50:00	28.21N	68.84W
12:32:59	28.59	68.57
13:25:30	28.67	68.51
14:00:43	28.72	68.44
17:10:00	29.23	68.11
19:55:00	29.61	67.84

810907I1

09:45:00	28.22	68.85
12:14:47	28.58	68.53
13:56:00	28.71	68.52
14:47:00	28.81	68.32
15:50:00	29.06	68.16
16:40:04	29.10	68.06
19:45:00	29.67	67.80

FLOYD

30.

.9

.8

.7

.6

.5

.4

.3

.2

.1

29.

.9

.8

.7

.6

.5

.4

.3

.2

.1

28.

69. .9 .8 .7 .6 .5 .4 .3 .2 .1 68.

W LON

810907H1

810907I1

171000

164004

155000

144700

135600

140043

132530

123259

121447

47 1512

10 X 10 TO THE CENTIMETER 25 X 38 CM.
K&E
KODAK & EBER CO. MADE IN U.S.A.