U.S. Dep't. of Commerce / OMAO / NOAA / Aircraft Operations Center

FLT ID: 20130914 ~~H~~ 1	From: KMCK	To: KMCK
FLT #:	Blk In: 1415 Z	Lnd Time: 1467 Z
ETD: 0600 Z	Blk Out: 0557 Z	T/O Time: 0611 Z
ETE: 8+00	Total Blk: ~~8.4~~ 8.3	Total Flt: 7.9
Sponsoring Org: HRD	Program: HFIP/PAX	Purpose: INGRID (TS)

AOC Flight Crew

Aircraft Commander: HALVERSON	SSA: BOSKO
Co-Pilot: KIBBEY / DIDIER	AVAPS: SMITH / RICHARDS
Navigator: BISHOP / GALLAGHER	Scientists: ROGERS, ROB
Flight Eng: HEYSTEK / PULS, A	Scientists CHEN
Flt Director: SEARS /	Scientists ZHANG
SEB: LYNCH, T / /	Scientists:

Crew Chief: Visitors: / /

	A/C - Takeoff	Wx Station - Takeoff	A/C - Land	Wx Station - Land
Pressure				

AS REQUIRED BY ORM	YES / NO	REMARKS
VOLCANIC ASH	X	
SCIENCE MISSION WITHIN BOUNDARY LAYER	X	
LACK OF PRECIPITATION	X	
RELATIVE HUMIDITY AT OR ABOVE 80%	X	
LARGE AIR-SEA TEMPERATURE GRADIENT	X	
HIGH SURFACE WINDS	X	
LONG FETCH AND/OR DURATION OF SFC WIND	X	
SEA SALT ACCRETION FORECAST	NO	
SEA SALT ACCRETION OBSERVED	NO	

Dropsondes	11	Good: 11	Bad: 0	Sent: 11
AXBT		Good:	Bad:	Sent:

List other data sources in Remarks section

Remarks (Storm VDM Identifier, Mission ID, Fix Times)

Storm Number Identifier (VDM): 0610A INGRID
(ie: AL072012)

TCPOD/WSPOD Mission ID: AL102013
(ie: NOAA2 2418A SANDY)

Fix #	VDM Ob Num	Fix Time / SLP
1	09	0932
2	12	1029
3	19	1056

Remarks: UNTIL

TROPICAL STORM

RECO 0625
0724
0911
1008
~~1052~~
1046
1145
1235 LR

4
10
12
1020
1007

NOAA • AOC • SED N42RF AVAPS DROP LOG Lead Tech: Joe Bosco

Project: Hurricane 2013 Mission: INGRID Flight ID: 20130914H1

Take Off : _____ Landing: _____ Flt Dir : SEARS

Drop #	Sonde Serial #	Rcvr #	Press Offset	Launch Time	Operator	Charge $$ To	Comments	Good ?
1	112545174	1	—	0910	JAS	HFIP		✓
2	112445135	2	-1.1	0922		HFIP		✓
4 ~~3~~	112545165	3	—	0943		HFIP		✓
3 ~~4~~	112615066	4	—	0932		NHC	Center	✓
✓5	112545188	1	-.4	1008		HFIP		✓
6	132235294	2	Ø	1020		HFIP		✓
7	112815011	3	-.7	1030		NHC	center	✓
8	132235378	4	Ø	1045		HFIP		✓
9	132235234	1	Ø	1056		NHC	center	✓
10	112545184	2	Ø	1109		HFIP		✓
11	112815141	3	Ø	1119		HFIP		
12								
13								
14								
15								
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33								
34								

DATE 9/14	SCHEDULED FIX TIME	AIRCRAFT NUMBER 42	ARWO SETRS
WX MISSION IDENTIFICATION	STORM NUMBER IDENTIFIER		OB

VORTEX DATA MESSAGE

A	14/09 3244	DATE AND TIME OF FIX
B	20 DEG 01 MIN N S	LATITUDE OF VORTEX FIX
	094 DEG 43 MIN E W	LONGITUDE OF VORTEX FIX
C	700 3012	MINIMUM HEIGHT AT STANDARD LEVEL
D	34	ESTIMATE OF MAXIMUM SURFACE WIND OBSERVED
E	353 42	BEARING AND RANGE FROM CENTER OF MAXIMUM SURFACE WIND
F	45 33	MAXIMUM FLIGHT LEVEL WIND NEAR CENTER
G	305 20	BEARING AND RANGE FROM CENTER OF MAXIMUM FLIGHT LEVEL WIND
H		MINIMUM SEA LEVEL PRESSURE COMPUTED FROM DROPSONDE OR EXTRAPOLATED FROM FLIGHT LEVEL. IF EXTRAPOLATED, CLARIFY IN REMARKS.
I	12 3070	MAXIMUM FLIGHT LEVEL TEMP/PRESSURE ALTITUDE OUTSIDE EYE
J	13 3067	MAXIMUM FLIGHT LEVEL TEMP/PRESSURE ALTITUDE INSIDE EYE
K	4	DEWPOINT TEMP/SEA SURFACE TEMP INSIDE EYE
L		EYE CHARACTER: Closed wall, poorly defined, open SW, etc.
M		EYE SHAPE/ORIENTATION/DIAMETER. **CODE EYE SHAPE AS:** C -Circular; CO - Concentric; E- Elliptical. **TRANSMIT ORIENTATION OF MAJOR AXIS IN TENS OF DEGREE** (i.e., 01-010 to 190; 17-170 to 350). **TRANSMIT DIAMETER IN NAUTICAL MILES.** Examples: C8 - Circular eye 8 miles in diameter. EO9/15/5 - Elliptical eye, major axis 090-270, length of major axis 15 NM, length of minor axis 5NM. CO8-14 - Concentric eye, diameter inner eye 8 NM, outer eye 14 NM.
N		FIX DETERMINED BY/FIX LEVEL. **FIX DETERMINED BY:** 1 - Penetration; 2 - Radar; 3 - Wind; 4 - Pressure; 5 - Temperature. **FIX LEVEL:** Indicate surface center if visible; indicate both surface and flight level centers only when same: 0 - Surface; 1 - 1500ft; 9-925mb; 8 - 850 mb; 7 - 700 mb; 5 - 500 mb; 4 - 400 mb; 3 - 300 mb; 2 - 200 mb; NA - Other.
O		NAVIGATION FIX ACCURACY/METEOROLOGICAL ACCURACY

P REMARKS

MAX FL WIND_____KT_____~~QUAD~~BEARING/RANGE_____Z

MAX OUTBOUND FL WIND_____KT_____~~QUAD~~BEARING/RANGE_____Z

SLP EXTRAP FROM (Below 1500 FT/ 925 MB/ 850 MB/ DROPSONDE)

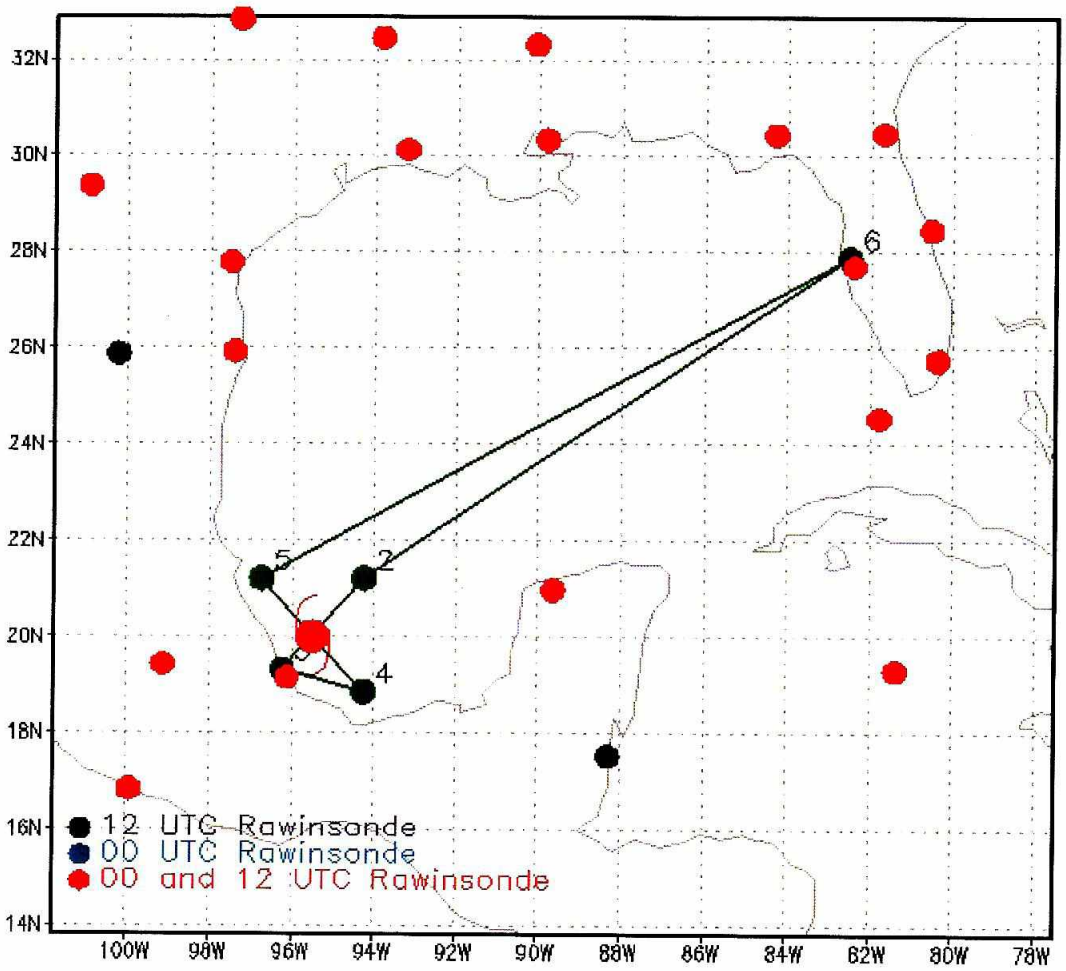
SFC CNTR_____/_____NM FROM FL CNTR

MAX FL TEMP _____C_____/_____NM FROM FL CNTR

SURFACE WIND OBSERVED VISUALLY

INSTRUCTIONS: Items A through G (and H when extrapolated) are transmitted from the aircraft immediately following the fix. The remainder of the message is transmitted as soon as available.

Figure 5-3. Vortex Data Message Worksheet



GrADS: COLA/IGES

UNITE 1036

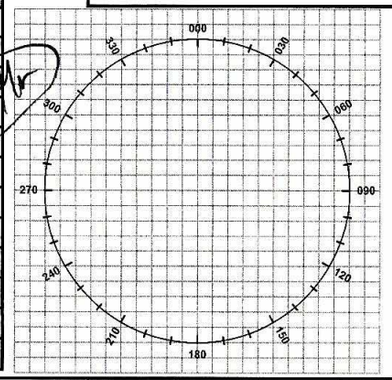
2013-09-13-16:07

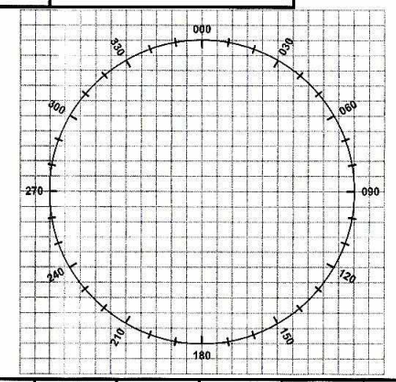
1RQOV 1RQOV M580 FL150 3601 S 135.775 133.9 17825

CLEARANCES			
FREQ	ALT	HDG	OTHER
118.8	12.0	270	12,000
Miami	16.0		16K +10
			118.8 Byt
			9.4 nm/hr
			045°/13.3 nm
			1725
			85 nm

MISSION LOG

PAGE ___ OF ___





POSITION REPORT

1. POSITION Check
2. TIME
3. ALTITUDE Estimate
4. NEXT POSITION
5. ETA
6. NEXT ~~POSITION~~

EMERGENCY MESSAGE

TRANSMIT THE FOLLOWING MESSAGE TO ANY AGENCY ON THE AIR-GROUND FREQUENCY IN USE. IF UNABLE TO ESTABLISH COMMS, ATTEMPT CONTACT ON ANY OF THE FOLLOWING EMERGENCY FREQUENCIES:

UHF/VOICE	VHF/VOICE	MF/VOICE	HF/CW	MF/CW
243.0	121.5	2182 KHZ	8364 KHZ	500 KHZ

MAYDAY, MAYDAY, MAYDAY
THIS IS NOAA 42, NOAA 42, NOAA 42

- POSITION _____ N / S _____ E / W AT _____ Z
- HEADING _____ TRUE/MAG
- AT _____ KTS TRUE/INDICATED
- FLIGHT LEVEL OR ALTITUDE
- WE ARE A P-3 AIRCRAFT WITH 15 SOULS ON BOARD
- NATURE OF EMERGENCY
- ASSISTANCE DESIRED
- PILOT INTENTIONS
- WE HAVE _____ ENDURANCE REMAINING

TIME	FIX TYPE	POSITION	INS 1 POSITION	K ERR	INS 2 POSITION	K ERR	MH	VAR +E==>	TH	DR +R==>	TRK	GS	WD	WS	ALT	TAS	NEXT PT	DIST	TIME	ETA	REMARKS
0549	ENG																				
0557	Taxi																				
0611	T/O																				Engine Efficiencies 0607-0610
0619	X✓	N 27-47.8 W 82-45.9	27-47.8 82-45.9	Ø Ø	27-47.8 82-45.9	Ø Ø	270	-5W	265	+2	267	233	132	02	16.6	238					MCF 257/14
0730	△	N 24-41.3 W 87-56.3	24-41.2 87-56.7	-.1 +.4	24-41.4 87-55.9	+.1 -.4	231	-1W	230	+2	232	301	089	10	16.0	293					
0817	△	N 22-51.1 W 91-40.7	22-51.3 91-41.5	+.2 +.8	22-51.8 91-41.4	+.7 -.7	237	+1E	238	+3	241	300	103	17	16.0	289					
0937		N 20-01.2 W 094-44.7	EYE																		
1003	POSITION	REPORT											225	36	10.0	248					
1014	△	N 19-16.1 W 93-56.9	19-16.3 93-57.2	+.2 +.3	19-18.8 93-55.1	+2.7 -1.8	301	+3E	303	+9	312	245	225	36	10.0	248					
1030		N 20-06.4 W 94-36.5	EYE 2																		
1057		N 20-10 W 94-34	EYE 3																		
1124	△	N 21-34.6 W 93-20.0	N 21-33.9 W 93-20.5	+1.3 +.5	N 21-39.0 W 93-18.5	+4.4 -1.5	321	+2E	323	+12	335	272	152	24	10.0	250					
1230	△	26-29.1 088-32.7	26-30.3 088-32.1	-1.2 +.6	26-33.9 088-29.4	-6.8 +2.7	059	1W	053	1E	054	267	110	15	10K	286	1TQW	100	+20	1250	
1330	△	26-54.9 085-05.5	26-56.4 085-07.8	-1.5 +.7	27-04.9 085-02.8	-10.0 +2.7	071	3W	068	1L	067	318	175	5	15K	315	1TQW	164	+35	1405	
1400	Land																				
1416	BOC																				