

U.S. Dept. of Commerce / NOAA / Aircraft Operations Center

AOCWF1

070914H	From: TBPR	To: TBPR
Flt No: 07-051	Blk In: 1636Z	ATA: 1630Z
ETD: 0730Z	Blk Out: 0712Z	ATD: 0721Z
ETE: 9+00	Blk Time: 9+24 (9.4)	Flt Time: 9+09 (9.2)
Sponsor Org: NOAA-NHC	Program: HUR 07	Purpose: TDR MAPAN

AOC Personnel

AC: STRONG	Sys Eng: HILL
CP: NEWMAN / GIRIMONTE	Data Sys: PEEK
Nav: GALLAGHER / BISHOP	Radar:
FE: BAST / WADE	GPS/BT:
FD: FLAHERTY	Cld Phys:
Avionics: OLNEY	

Participating Scientists / Visitors / AOC

Name (Last, First)	Activity on Aircraft	Affiliation
ULHORN, E	PI	HRD
LEIGHTON, P	RADAR	"
ESTEBAN, D	IWRAP	JPL
CHU, TAU	"	UMASS
JELENAK, Z	"	NESDIS

Proposed/Actual Mission Remarks (Recco, Fixes, Storm, PENET, NHOP #)

T.S. INGRID

NOAA2 0208A INGRID

12Z 15.1N 49.4W (40KTS)

~~RAW~~ RECYCLED TT SENSORS

~ 0810Z

TT2 INOP

1600Z

VERY HIGH RH% 's

U.S. Dept. of Commerce / NOAA / Aircraft Operations Center

AOCWF2

Flt ID:

070914H

Time Off:

0721z

Time On:

1630

A/C (Take Off)

Wx Station (Take Off)

A/C (Land)

Wx Station (Land)

Pressure

1004.7

Q1011

1005.8

Q1013

Number

Data Disposition / Date / Quality

Flt Lvl Tapes

Radar Tapes

Cloud Physics Tapes

Video Tapes

AXBT

AXCP

AXCTD

Dropsondes

9

ALL GOOD

15

11 NHC/HARD

4

IWRAP

ALL GOOD

Video

Forward

Left Side

Right Side

Down

Remarks

Time On

Time Off

Rate

Remarks

14/0700z 09014KT 10SM 27/23 Q1011

14 1607z 10014KT 10SM 29/23 Q1013

Flight ID: 07091414

Start: 0719
End: 1632

PSW/PSF				X
PQW/PQF1/PQF2				X
INE	1	(2)		
ACCI	1	(2)		X
TT	(1)	2	3	(X)
TDM	1	(2)	3	(X)
RA	(159)	232		(X)

Time/Data Gaps

SEQUENCE DATA GAPS
095538 → 095947
@ 113751

Substitutions

TT2 → TT1 (+1)
080948 → 081002

TDM3 → TDM2
093529 → 093833

232 → 159
SMUT → 070927
072135

NOTES

0905-0936
1045-1127
1224-1243
1312-1332
1443-1447

Project: Hvcc 2007 Mission: Ingrid Flight ID: 07091414
Take Off: _____ Landing: _____ Fit Dir: Flaherty Launcher S/N: _____

Project: F101-500		Landing:		Flt Dir: F101-500		Launcher S/N:		
Take Off:								
Drop #	Sonde Serial #	Rcvr #	Press Offset	Launch Time	Wind s Time	DropT ech	Comments	Good ✓
C 1	054556543	1	0	0952	04	HRD	JWH	✓
S 2	054556229	2	0	1002	05	HRD		✓
S 3	054556558	3	0	1006	06	OW		✓
C 4	054626212	1	0	1017	03	HRD		✓
S 5	054556379	2	0	1022	04	OW		✓
S 6	054556318	4	0	1028	04	HRD		✓
C 7	054556548	1	0	1038	05	HRD		✓
C 8	054626125	1	0	1110	08	HRD		✓
S 9	054556226	2	0	1118	07	HRD		✓
S 10	054556228	3	0	1121	04	HRD		✓
S 11	054626249	1	0	1126	05	OW		✓
S 12	054626244	2	0	1135	08	HRD		✓
S 13	054626204	1	0	1142	37	OW		✓
S 14	054626202	2	0	1146	07	HRD	JWH	✓
C 15	054626197	1	0	1156	09	HRD	JWH	✓

N42RF AXBT DropSonde Log

N42RF Project: Arr 2007

Flight ID: 070914H

ession: Integral

Flight #: 1

System Status:

[illegible]

(STM

DATE 9/14	SCHEDULED RX TIME 0127	AIRCRAFT NUMBER N42	FLIGHT DIRECTOR FLATHEAD
WX MISSION IDENTIFIER NMA2 6208A INGRID			OB NUMBER
VORTEX DATA MESSAGE			
A	14 / 1136 Z	DATE and TIME of FIX	
B	15 DEG 04 MIN N S	LATITUDE of FIX	
	49 DEG 42 MIN W E	LONGITUDE of FIX	
C	850 MB 1475 M	MINIMUM HEIGHT of STANDARD LEVEL	
D	50 KT	ESTIMATE of MAXIMUM SURFACE WIND OBSERVED	
E	215 DEG 45 NM	BEARING and RANGE FROM CENTER of MAXIMUM SURFACE WIND	
F	208 DEG 32 KT	MAXIMUM FLIGHT LEVEL WIND NEAR CENTER	
G	222 DEG 55 NM	BEARING and RANGE FROM CENTER OF MAXIMUM FLIGHT LEVEL WIND	
H	1004 E MB	MINIMUM SEA LEVEL PRESSURE COMPUTED FROM DROPSONDE OR EXTRAPOLATED FROM FLIGHT LEVEL. IF EXTRAPOLATED, CLARIFY IN REMARKS.	
I	21 C / 1539 M	MAXIMUM FLIGHT LEVEL TEMP / PRESSURE ALTITUDE OUTSIDE EYE	
J	22 C / 1540 M	MAXIMUM FLIGHT LEVEL TEMP / PRESSURE ALTITUDE INSIDE EYE	
K	18 C / NA C	DEWPOINT TEMP / SEA SURFACE TEMP INSIDE EYE	
L	Poory DEF	EYE CHARACTER: Closed wall, poorly defined, open SW, etc.	
M	N/A	EYE SHAPE/ORIENTATION/DIAMETER: Code eye shape as: C - Circular; CO - Concentric; E - Elliptical. Transmit orientation of the major axis in tens of degrees, i.e., 01-010 to 190; 17 - 170 to 350. Transmit diameter in nautical miles. Examples: C8= Circular eye 8 miles in diameter. E09/15/5=Elliptical eye, major axis 090-270, length of major axis 15 NM, length of minor axis 5 NM. CO8-14=Concentric eye, diameter inner eye 8 NM, outer eye 14 NM.	
N	12345 / 8	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; 1-1500 ft; 9-925mb; 8-850mb; 7-700mb; 5-500mb; 4-400mb; 3-300mb; 2-200mb; NA-Other	
O	1 / 1 NM	NAVIGATION FIX ACCURACY / METEOROLOGICAL ACCURACY	
P	REMARKS MAX FL WIND 40 KT NW QUAD 1028 Z MAX 56m wind 51 KTS SW QUAD 1118 Z SLP Extrapol from 850		

INSTRUCTIONS: items A thru 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 for scheduled fixes and at the Flight Director's discretion for unscheduled (intermediate) fixes.

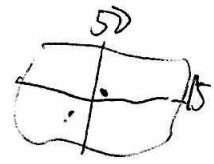
VORTEX DATA MESSAGE

Date 09/14	Scheduled Fix Time N/A	Aircraft Number N42	Flight Director ELAHERTY
Mission Identifier: NO442 0208A INGRID			OB Number:
A	14 / 1018 Z	Date and Time of Fix	
B	15 DEG 05 MIN N	Latitude of Fix (If in Southern Hemisphere, use "S")	
	49 DEG 35 MIN W	Longitude of Fix (If in Eastern Hemisphere, use "E")	
C	850 MB 1466 M	Minimum Height of Standard Level	
D	40 KT	Estimate of Maximum Surface Wind Observed (visually)	
E	180 DEG 60 NM	Bearing and Range <u>From</u> Center of Maximum Surface Wind	
F	205 DEG 35 KT	Maximum Flight Level Wind Near Center	
G	135 DEG 30 NM	Bearing and Range <u>From</u> Center of Maximum Flight Level Wind	
H	1004 MB	Minimum Sea Level Pressure computed from Dropsonde or Extrapolated from flight level. <u>If</u> extrapolated, clarify in remarks.	
I	18 C / 1532 M	Maximum Flight Level Temp / Pressure Altitude <u>Outside</u> Eye	
J	22 C / 1528 M	Maximum Flight Level Temp / Pressure Altitude <u>Inside</u> Eye	
K	17 C / N/A C	Dewpoint Temp / Sea Surface Temp <u>Inside</u> Eye	
L	100% DEFND	Eye Character (Closed wall, poorly defined, open SW, etc.)	
M	N/A	<u>Eye Shape / Orientation / Diameter</u> Code eye shape as: C – circular; CO – concentric; E – elliptical. Transmit orientation of the major axis in tens of degrees from 01 to 18, i.e., 01 => 010 to 190; 17 => 170 to 350. Transmit diameter in nautical miles. <u>Examples:</u> C8 = Circular eye 8 nm in diameter; E07/15/5 = Elliptical eye oriented 070 to 250, length of major axis is 15 nm, length of minor axis is 5 nm; CO18-30 = Concentric eye walls with diameter of inner eye 18 nm and diameter of outer eye 30 nm.	
N	12345 / 8	<u>Fix Determined By / Fix Level</u> Fix determined by: 1 – Penetration; 2 – Radar; 3 – Wind; 4 – Pressure; 5 – Temperature. <u>Fix Level</u> (Indicate surface center if visible; indicate both surface and flight level centers ONLY when same): 0 – Surface; 1 – 1500 ft; 9 – 925 mb; 8 – 850 mb; 7 – 700 mb; 5 – 500 mb; 4 – 400 mb; 3 – 300 mb; 2 – 200 mb; NA - Other	
O	1 / 1 NM	Navigation Fix Accuracy / Meteorological Accuracy	
P	REMARKS: MAX FL WIND 35 KT SE QUAD 1010 Z MAX SFC WIND 42 KT SE QUAD 0937z		

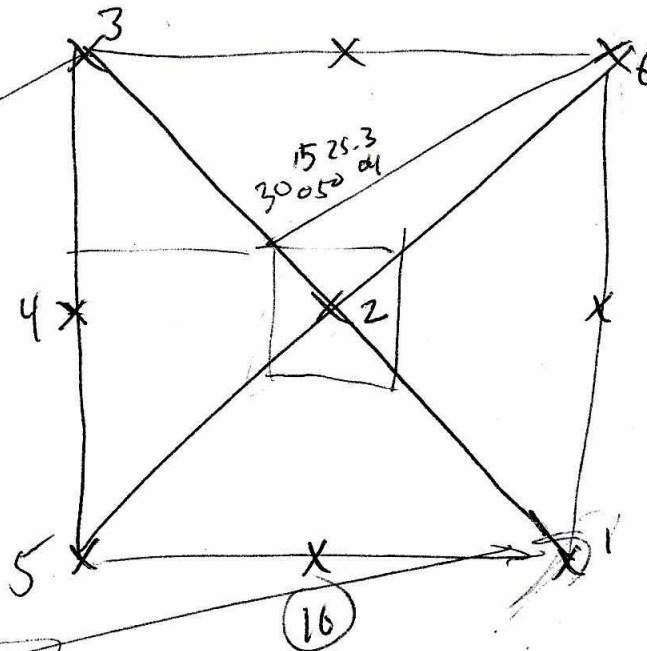
Instructions: Items A thru G (and H when extrapolated) are transmitted from the aircraft immediately following the fix. The remainder of the message is transmitted as soon as available for scheduled fixes and at the Flight Director's discretion for unscheduled fixes.

FL 381CTS 1020
40
NW QUAD
40 NW
315

14 SONDES
9 AXBT'S



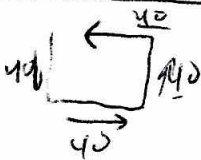
5 fmr
1118 31KTS
45 miles SW



X = 9 AXBT'S

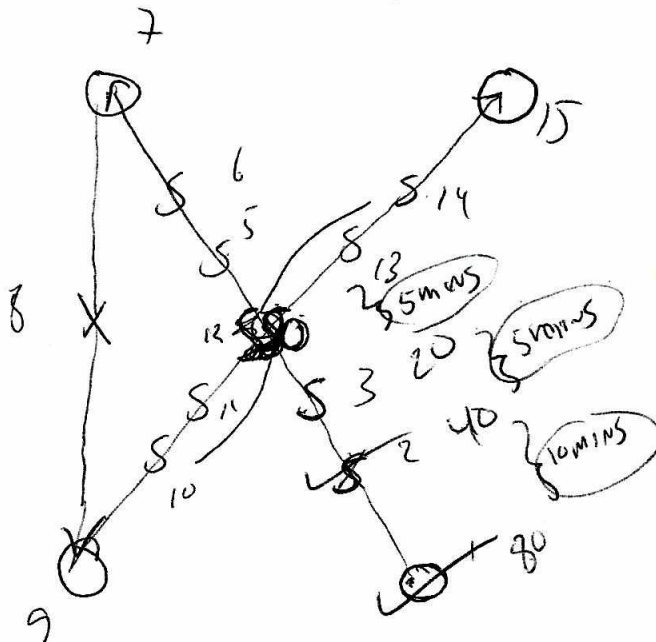
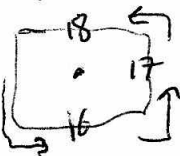
FIG 4

30 MILES AWAY
40 MILE LEGS



KEEP HDG WEST
UNTIL CROSS
LONG LINE
OF 80 MILE
PTS.

16 AXBT
17 AXBT
18 AXBT



O = COMBO
X = AXBT
S = SONDE

NEW 14 20.6
48 03.7

- 1 COMBO
- 2 SONDE
- 3 SONDE
- 4 COMBO
- 5 SONDE
- 6 SONDE
- 7 COMBO
- 8 AXBT
- 9 COMBO
- 10 SONDE
- 11 SONDE
- 12 SONDE
- 13 SONDE
- 14 SONDE
- 15 COMBO

[illegible][illegible]