

U.S. DEPT. COMM./NOAA/OAO - DATA SECTION WORK FORM NO.1 OAOWF1 FILE

FLT ID: 961017H2	FM: KMCF	TO: KMCF
FLT NO: 97-005	BLK IN: 0141	ATA: 0131
ETD: 1000	BLK OUT: 1655	RTD: 1709
ETE: 0230	BLK TIME: 8.4 8.8	FLT TIME: 8.22 8.4
SPONSOR ORG: NHC	PROGRAM: RECCO	PURPOSE: RECCO HURR LIL

OAO PERSONNEL

AC MCKIM, G ✓	SYS ENG LYNCH, T
CP TAGGART, B ✓	DATA SYS DELGADO, J
NAV STRONG, T	RADAR CARPENTER, D ✓
FE WADE, S	BT/ODW BARR, J
RADIO ROGERS, M ✓	CLD PHYS SMITH, J
FD CZYZYK, S	DOPPLER

PARTICIPATING SCIENTIST/VISITORS/OAO

LAST, FIRST NAME	ACTIVITY ON A/C	AFFILIATION
LANDSEA, C ✓	SCIENTIST	HRD
BLACK, M ✓	↓	↓
BLACK, B ✓	↓	Ch. 13
TOWE, L ✓	↓	Ch. 13

PROPOSED/ACTUAL MISSION/REMARKS (RECCO, FIXES, STORM, PENET, NHOP #)

1911Z	2045Z	2201Z	2306Z	2354N
2054N	2104	2103N	2103N	2106N
8309W	8309W	8307W	8257W	8246W
983	982	983	982	982
65 KT.	60 KT.	55 KT	75 KTS	78 KTS

1 HOUR DELAY IN TAKEOFF DUE TO STARTER REPLACEMENT ON ENGINE 3

U.S. DEPT. COMM./NOAA/OAD - DATA SECTION WORK FORM NO.2 OADWF2

FLT ID: TIME OFF: TIME ON:

	A/C T/O	WX STN	A/C LAND	WX STN
PRESSURE	1012.0	29.94	1010.9	29.85

NO DATA DISPOSITION/DATE/QUALITY

1/SEC FLT LVL TAPES	/	
FAST FLT LVL TAPES		
RADAR TAPES		
DOPPLER TAPES		
ODW CASSETTES		
HARD COPIES	/	
AXBT		
AXCP		
ODW		

PHOTOGRAPHY

	FWD	LS	RS	VERT
ON				
OFF				
RATE				

REMARKS

[illegible]

HURRICANE LILI RECCO #2

FLIGHT #1 961017H2

TYPE OF DATA

SENSOR OR OPTION

INE	1
Accelerometer	1
Temperature probe	1
Altitude change option (for vertical winds)	RA-159
Static pressure	Rosemount fuselage
Dynamic pressure	Rosemount fuselage
Time source	Micro 99
Constants file	CO2965.CON

Notes:

Radar altimeter, RA-159, was replaced by RA-232, due to spike at takeoff (1709:17-1709:24).

Radar altimeter, RA-159, was set to zero after landing due to spike (0130:56-0143:00).

Dips in the radar altimeter and static pressure are due to overflying Cuba (1821:30-1827:00 and 0021:00-0025:00).

Static pressure, PSF, has nine electronic spikes/glitches removed and all were patched. 1856:40-1857:15, 1922:00-1924:00 (3), 1926:30-1927:20 (2), 1933:20-1933:50 (2), and 1951:40-1952:00.

Dewpointer #1 (DW1) exceeded the ambient temperature on several occasions times due to heavy precipitation.

There were seven time/data gaps: 2254:11-2254:50, 2255:11-2255:20, 2255:41-2255:50, 2256:11-2256:20, 2256:41-2256:50, 2257:11-2257:20, 0138:31-0138:50.

	Takeoff -----	Landing -----
Aircraft static pressure:	1012.0 mb	1010.9 mb
Corrected airport pressure:	1013.0 mb	1010.8 mb

The aircraft INE positions were re-navigated with respect to GPS.

SPECIAL NOTE!!! Locations 80, 81 and 82 of record five on the standard tape contain vertical ground, vertical air and vertical speeds, respectively, computed using Dave Jorgensen's vertical wind algorithm. It is recommended that these values be used for vertical wind analysis.

Flight Meteorologist: Stan Czyzyk: (813) 828-3310 ext. 3086

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TITLE (MAX 21 CHARACTERS) -- EX HURRICANE PAINE
H. LILI RECCO #2
YYMMDDL FLT I.D.
961017H2
HHMMSS START TIME -99999 DEFAULT TO START OF DATA FOR PRINTOUT ONLY
165401
HHMMSS END TIME 999999 DEFAULT TO END OF DATA FOR PRINTOUT ONLY
014300
HHMMSS TAKE OFF TIME
170911
* NUMBER OF TAPES (I2) ...FOR STANDARD TAPE OUTPUT ONLY
01
* -----LOGICAL UNIT OF INPUT DATA (I1) 5, 8 OR 9 FOR TAPE DRIVE
9
* -----LOGICAL UNIT OF OUTPUT TAPE DRIVE (I1) [FOR STANDARD TAPE ONLY]
9
* -----LOGICAL UNIT OF PRINTER (I1)
6
* -----DATE OF PROGRAM (MMDDY)
06094
* -----STATIC PRESSURE PROBE (I1)
* 1 = PSW (WINGTIP)
* 2 = PSF (CO-PILOT/FUSELAGE)
* 3 = FUTURE USE
2
* -----DYNAMIC PRESSURE PROBE (I1)
* 0 = PQW(WINGTIP)
* 1 = PQF1 (FUSELAGE 1281)
* 2 = PQF2 (FUSELAGE 1221)
* 3 =FUTURE US
1
* -----INE SELECTION (I1)
* 1 = INE 1
* 2 = INE 2
1
* -----ACCELEROMETER (I1) - USUALLY THE SAME AS YOUR INE SELECTION
1
* ----- TOTAL TEMPERATURE PROBE (I1) [1 OR 2]
1
* ----- DEWPOINT TEMPERATURE PROBE (I1) [1 OR 2]
1
* -----ALTIMETER OPTION (I1) - FOR VERTICAL WIND COMPUTATION
* 0 = PRESSURE ALTITUDE (OVER LAND)
* 1 = RADAR ALTITUDE APN-159 (OVER WATER)
* 2 = RADAR ALTITUDE APN-232 (OVER WATER)
1
* -----PRINTOUT RATE SECONDS (I2)
10
* -----WINDSPEED/DIRECTION RUNNING AVERAGE TIME, SECONDS (I2)
10 ! FOR STANDARD TAPE OUTPUT ONLY
* -----TIME OPTION (I1)
* 1 = MICRO 29
* 2 = TIME BASED GENERATOR #1
* 3 = TIME BASED GENEATOR #2
1
* -----NAME OF CONSTANTS FILE EX CO3863.CON
CO2965.CON
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1654:01
START ~~158:01~~
STOP 0142:00

RENAV

172900, 0.1, 0.0	26 51.8 -82 8.2
191100, 0.4, 0.3	20 53.5 -83 9.0
204500, 0.0, -0.4	21 2.9 -83 9.5
205400, 0.0, -0.4	21 28.6 -83 34.7
220100, -1.3, -0.1	21 1.9 -83 8.4
230600, -1.8, -0.4	21 5.3 -82 59.3
235400, -3.0, -0.5	21 6.0 -82 44.9
002100, -3.0, -1.2	22 49.1 -81 41.3
014300, -4.4, -1.8	27 50.9 -82 29.6

BAD BLOCK

220 FOUND

1980 FOUND

22:56:41

22:56:50

22:56:53

BAD BLOCK

220 FOUND

1980 FOUND

22:57:11

22:57:20

BAD BLOCK

10 FOUND

~~21~~ BAD BLOCK 880 FOUND

0138:31

0138:50

0136:21 BAD POSITION

LAT 16.501 27.854

CON - 48.771 -82.507

ALSO



2254:41 - 2254:50 BAD BLOCK
 2255:11 - 2255:20 BAD BLOCK
 2255:41 - 2255:50 BAD BLOCK
 2256:11 - 2256:20 BAD BLOCK
 2256:41 - 2256:40 BAD BLOCK
 2257:11 - 2257:20 BAD BLOCK
 0138:31 - 0138:50 BAD BLOCK

RA-159	REPLACE W/ RA-232	FROM	1709:17 - 1709:24	X
? RA-159	DIPS	OVERFLY CUBA	1824:30 - 1827:00	X
PSF	DIP + PSW + PQF2		1856:40 1856:40 1857:15	X
PSF	DIPS (3) + PSW + PQF2		1922:00 - 1924:00	X
PSF	DIPS (2) + PSW + PQF2		1926:30 - 1927:20	X
PSF	DIPS (2) + PSW + PQF2		1933:20 - 1933:50	X
PSF	DIP + PSW + PQF2 (2)		1951:40 - 1952:00	X
RA-159	DIPS (2)	OVERFLY CUBA	0021:00 - 0025:00	X
RA-159	SET TO ZERO @ LANDING		0130:56 - 0143:00	X

DATE : 10/18/96

TO : Chief, AOC Flight Operations

FROM : Pilot/Flight Director, Aircraft N42RF ON 0141 BLOCKTIME

OFF 1655 8.8

SUBJECT: Hazardous Duty

PURPOSE OF FLIGHT: HURRICN. LILI RECCO

Hazardous Duty Pay is required for flight made on 10/17/96
(DATE)

Request based on SEVERAL HURRICANE PENETRATIONS

Personnel on board authorized Hazard Pay:

S. CZYZYK

T. LYNCH

J. DELGADO

D. CARPENTER

J. BARR

S. WADE

J. SMITH

M. ROGERS

PILOT/FLIGHT DIRECTOR: Stanley Gough

APPROVED: ✓

DISAPPROVED:

CHIEF, AOC FLIGHT OPERATIONS: Longa Volante

DATE 10/17/96		SCHEDULED FIX TIME 0000Z		AIRCRAFT NUMBER N42RF		ARWO	
MANOP HEADING (PRECEDENCE IMMEDIATE)							
MISSION IDENTIFIER AND OBSERVATION NUMBER NOAA2 0512A LILI							
(ABBREVIATED) (DETAILED) VORTEX DATA MESSAGE							
A	17/2354		Z	DATE AND TIME OF FIX			
B	21 DEG 06 MIN N S			LATITUDE OF VORTEX FIX *			
	82 DEG 46 MIN E W			LONGITUDE OF VORTEX FIX *			
C	850 MB 1280		M	MINIMUM HEIGHT AT STANDARD LEVEL			
D	NA		KT	ESTIMATE OF MAXIMUM SURFACE WIND OBSERVED			
E	NA DEG		NM	BEARING AND RANGE FROM CENTER OF MAXIMUM SURFACE WIND			
F	320 DEG 59		KT	MAXIMUM FLIGHT LEVEL WIND NEAR CENTER			
G	260 DEG 5		NM	BEARING AND RANGE FROM CENTER OF MAXIMUM FLIGHT LEVEL WIND			
H	EXTRAP 982		MB	MINIMUM SEA LEVEL PRESSURE COMPUTED FROM DROPSONDE OR EXTRAPOLATED FROM WITHIN 1500 FT OF SEA SURFACE			
I	21 C/ 1545		M	MAXIMUM FLIGHT LEVEL TEMP / PRESSURE ALTITUDE OUTSIDE EYE			
J	24 C/ 1650		M	MAXIMUM FLIGHT LEVEL TEMP / PRESSURE ALTITUDE INSIDE EYE			
K	17 C/ NA		C	DEWPOINT TEMP / SEA SURFACE TEMP INSIDE EYE			
L	NA			EYE CHARACTER: Closed wall, poorly defined, open SW, etc.			
M	NA			EYE SHAPE/ORIENTATION/DIAMETER. Code eye shape as: C - Circular; CO - Concentric; E - Elliptical. Transmit orientation of 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	21 DEG 06 MIN N S			CONFIRMATION OF FIX: Coordinates and Time *			
	82 DEG 46 MIN E W						
	17/2354		Z				
O	1345 / 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; 8 - 850 mb; 7 - 700 mb; 5 - 500 mb; 4 - 400 mb; 3 - 300 mb; 2 - 200 mb; 9 - Other.			
P	1 / 2		NM	NAVIGATION FIX ACCURACY/METEOROLOGICAL ACCURACY			
Q				REMARKS			
MAX FL WIND 78 KTS 8 MI E OF FL CNTR SLP EXTRAP FROM 850 MB NO EYEWALL WEST HALF LO LVL CNTR APPEARS 5 MILES EAST OF FL CNTR BASED ON RADAR							
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 for scheduled fixes and at the ARWO's discretion for unscheduled (intermediate) fixes. * CHECK SUM REQUIRED IN WESTPAC.							

DATE 10/19/96		SCHEDULED FIX TIME 2000Z		AIRCRAFT NUMBER 1142RF		ARWO	
MANOP HEADING (PRECEDENCE IMMEDIATE)							
MISSION IDENTIFIER AND OBSERVATION NUMBER A0002 512A LILI							
(ABBREVIATED) (DETAILED) VORTEX DATA MESSAGE							
A	17/2306 Z			DATE AND TIME OF FIX			
B	31 DEG 03 MIN N S			LATITUDE OF VORTEX FIX *			
	82 DEG 57 MIN E W			LONGITUDE OF VORTEX FIX *			
C	850 MB 1280 M			MINIMUM HEIGHT AT STANDARD LEVEL			
D	NA KT			ESTIMATE OF MAXIMUM SURFACE WIND OBSERVED			
E	NA DEG NM			BEARING AND RANGE FROM CENTER OF MAXIMUM SURFACE WIND			
F	020 DEG 44 KT			MAXIMUM FLIGHT LEVEL WIND NEAR CENTER			
G	290 DEG 5 NM			BEARING AND RANGE FROM CENTER OF MAXIMUM FLIGHT LEVEL WIND			
H	EXTRAP 982 MB			MINIMUM SEA LEVEL PRESSURE COMPUTED FROM DROPSONDE OR EXTRAPOLATED FROM WITHIN 1500 FT OF SEA SURFACE			
I	20 C/ 1576 M			MAXIMUM FLIGHT LEVEL TEMP/PRESSURE ALTITUDE OUTSIDE EYE			
J	24 C/ 1739 M			MAXIMUM FLIGHT LEVEL TEMP/PRESSURE ALTITUDE INSIDE EYE			
K	17 C/ NA C			DEWPOINT TEMP/SEA SURFACE TEMP INSIDE EYE			
L	NA			EYE CHARACTER: Closed wall, poorly defined, open SW, etc.			
M	NA			EYE SHAPE/ORIENTATION/DIAMETER. Code eye shape as: C - Circular; CO - Concentric; E - Elliptical. Transmit orientation of 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	31 DEG 03 MIN N S			CONFIRMATION OF FIX: Coordinates and Time *			
	82 DEG 57 MIN E W						
	17/2306 Z						
O	1345 / 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; 8 - 850 mb; 7 - 700 mb; 5 - 500 mb; 4 - 400 mb; 3 - 300 mb; 2 - 200 mb; 9 - Other.			
P	1 12 NM			NAVIGATION FIX ACCURACY/METEOROLOGICAL ACCURACY			
Q	REMARKS SLP EXTRAP FROM 850 MB MAX FL WIND 75 KTS 12 SE OF FL CNTR LO LVL CNTR APPEARS 6 MILES EAST OF FL LEVEL BASED ON RADAR NO EYEWALL SOUTH HALF						

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 for scheduled fixes and at the ARWO's discretion for unscheduled (intermediate) fixes.

* CHECK SUM REQUIRED IN WESTPAC.

DATE 10/17/96	SCHEDULED FIX TIME	AIRCRAFT NUMBER 1142 RF	ARWO
MANOP HEADING (PRECEDENCE IMMEDIATE)			
MISSION IDENTIFIER AND OBSERVATION NUMBER NOAAZ 0512A LILE			
(ABBREVIATED) (DETAILED) VORTEX DATA MESSAGE			

A	17/2201	Z	DATE AND TIME OF FIX
B	21 DEG 03 MIN N S		LATITUDE OF VORTEX FIX *
B	83 DEG 07 MIN E W		LONGITUDE OF VORTEX FIX *
C	850 MB 1288	M	MINIMUM HEIGHT AT STANDARD LEVEL
D	NA	KT	ESTIMATE OF MAXIMUM SURFACE WIND OBSERVED
E	NA DEG	NM	BEARING AND RANGE FROM CENTER OF MAXIMUM SURFACE WIND
F	320 DEG 55	KT	MAXIMUM FLIGHT LEVEL WIND NEAR CENTER
G	250 DEG 9	NM	BEARING AND RANGE FROM CENTER OF MAXIMUM FLIGHT LEVEL WIND
H	EXTRAP 983	MB	MINIMUM SEA LEVEL PRESSURE COMPUTED FROM DROPSONDE OR EXTRAPOLATED FROM WITHIN 1500 FT OF SEA SURFACE
I	20 C/ 1555	M	MAXIMUM FLIGHT LEVEL TEMP/PRESSURE ALTITUDE OUTSIDE EYE
J	40 C/ 1605	M	MAXIMUM FLIGHT LEVEL TEMP/PRESSURE ALTITUDE INSIDE EYE
K	16 C/ NA	C	DEWPOINT TEMP/SEA SURFACE TEMP INSIDE EYE
L	NA		EYE CHARACTER: Closed wall, poorly defined, open SW, etc.
M	NA		EYE SHAPE/ORIENTATION/DIAMETER. Code eye shape as: C - Circular; CO - Concentric; E - Elliptical. Transmit orientation of 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	21 DEG 03 MIN N S 83 DEG 07 MIN E W 17/2201	Z	CONFIRMATION OF FIX: Coordinates and Time *
O	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; 8 - 850 mb; 7 - 700 mb; 5 - 500 mb; 4 - 400 mb; 3 - 300 mb; 2 - 200 mb; 9 - Other.
P	2 / 2	NM	NAVIGATION FIX ACCURACY/METEOROLOGICAL ACCURACY
Q	REMARKS SLP EXTRAP FROM 850 MB NO EYE WALL WEST HALF MAX FL WIND 65 KT NE QUAD		

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 for scheduled fixes and at the ARWO's discretion for unscheduled (intermediate) fixes.

* CHECK SUM REQUIRED IN WESTPAC.

DATE 10/17/96		SCHEDULED FIX TIME 2100Z		AIRCRAFT NUMBER N42RF		ARWO	
MANOP HEADING (PRECEDENCE IMMEDIATE)							
MISSION IDENTIFIER AND OBSERVATION NUMBER NOAAZ 0512A LILI							
(ABBREVIATED) (DETAILED) VORTEX DATA MESSAGE							
A	17/2045		Z	DATE AND TIME OF FIX			
B	21 DEG 04 MIN (N) S			LATITUDE OF VORTEX FIX *			
	83 DEG 09 MIN E (W)			LONGITUDE OF VORTEX FIX *			
C	850 MB 1280		M	MINIMUM HEIGHT AT STANDARD LEVEL			
D	NA		KT	ESTIMATE OF MAXIMUM SURFACE WIND OBSERVED			
E	NA DEG		NM	BEARING AND RANGE FROM CENTER OF MAXIMUM SURFACE WIND			
F	235 DEG 60		KT	MAXIMUM FLIGHT LEVEL WIND NEAR CENTER			
G	150 DEG 6		NM	BEARING AND RANGE FROM CENTER OF MAXIMUM FLIGHT LEVEL WIND			
H	EXTRAP 982		MB	MINIMUM SEA LEVEL PRESSURE COMPUTED FROM DROPSONDE OR EXTRAPOLATED FROM WITHIN 1500 FT OF SEA SURFACE			
I	19 c/ 1580		M	MAXIMUM FLIGHT LEVEL TEMP / PRESSURE ALTITUDE OUTSIDE EYE			
J	22 c/ 1670		M	MAXIMUM FLIGHT LEVEL TEMP / PRESSURE ALTITUDE INSIDE EYE			
K	NA c/		C	DEWPOINT TEMP / SEA SURFACE TEMP INSIDE EYE			
L	POORLY DEFINED NA			EYE CHARACTER: Closed wall, poorly defined, open SW, etc.			
M	NA			EYE SHAPE/ORIENTATION/DIAMETER. Code eye shape as: C - Circular; CO - Concentric; E - Elliptical. Transmit orientation of 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	21 DEG 04 MIN (N) S			CONFIRMATION OF FIX: Coordinates and Time *			
	83 DEG 09 MIN E (W)						
	17/2045		Z				
O	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; 8 - 850 mb; 7 - 700 mb; 5 - 500 mb; 4 - 400 mb; 3 - 300 mb; 2 - 200 mb; 9 - Other.			
P	2 12		NM	NAVIGATION FIX ACCURACY/METEOROLOGICAL ACCURACY			
Q	REMARKS SLP EXTRAP FROM 850 MB MAX FL WIND 65 KT NE QUAD NO EYEWALL SOUTH HALF						

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 for scheduled fixes and at the ARWO's discretion for unscheduled (intermediate) fixes.

* CHECK SUM REQUIRED IN WESTPAC.

DATE 10/17/96		SCHEDULED FIX TIME		AIRCRAFT NUMBER N42RF		ARWO	
MANOP HEADING (PRECEDENCE IMMEDIATE)							
MISSION IDENTIFIER AND OBSERVATION NUMBER NOAA2 0512A LILT							
(ABBREVIATED) (DETAILED) VORTEX DATA MESSAGE							
A	17/1911		Z	DATE AND TIME OF FIX			
B	20 DEG 54 MIN N S			LATITUDE OF VORTEX FIX *			
	83 DEG 09 MIN E W			LONGITUDE OF VORTEX FIX *			
C	950 MB 1290		M	MINIMUM HEIGHT AT STANDARD LEVEL			
D	NA		KT	ESTIMATE OF MAXIMUM SURFACE WIND OBSERVED			
E	NA DEG		NM	BEARING AND RANGE FROM CENTER OF MAXIMUM SURFACE WIND			
F	155 DEG 65		KT	MAXIMUM FLIGHT LEVEL WIND NEAR CENTER			
G	030 DEG 7		NM	BEARING AND RANGE FROM CENTER OF MAXIMUM FLIGHT LEVEL WIND			
H	EXTRAP 983		MB	MINIMUM SEA LEVEL PRESSURE COMPUTED FROM DROPSONDE OR EXTRAPOLATED FROM WITHIN 1500 FT OF SEA SURFACE			
I	19 C/ 1396		M	MAXIMUM FLIGHT LEVEL TEMP/PRESSURE ALTITUDE OUTSIDE EYE			
J	23 C/ 1648		M	MAXIMUM FLIGHT LEVEL TEMP/PRESSURE ALTITUDE INSIDE EYE			
K	17.0 C/ NA		C	DEWPOINT TEMP/SEA SURFACE TEMP INSIDE EYE			
L	OPEN SW			EYE CHARACTER: Closed wall, poorly defined, open SW, etc.			
M	C10			EYE SHAPE/ORIENTATION/DIAMETER. Code eye shape as: C - Circular; CO - Concentric; E - Elliptical. Transmit orientation of 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	20 DEG 54 MIN N S			CONFIRMATION OF FIX: Coordinates and Time *			
	83 DEG 09 MIN E W						
	17/1911		Z				
O	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; 8 - 850 mb; 7 - 700 mb; 5 - 500 mb; 4 - 400 mb; 3 - 300 mb; 2 - 200 mb; 9 - Other.			
P	2 / 2		NM	NAVIGATION FIX ACCURACY/METEOROLOGICAL ACCURACY			
Q				REMARKS SLP EXTRAP FROM 950 MB EYEWALL OPEN SW QUAD MAX FL WIND 65 KT NE QUAD			

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 for scheduled fixes and at the ARWO's discretion for unscheduled (intermediate) fixes.

* CHECK SUM REQUIRED IN WESTPAC.

DATE 10/17/96	SCHEDULED FIX TIME 1800Z	AIRCRAFT NUMBER N92RF	ARWO
MANOP HEADING (PRECEDENCE IMMEDIATE)			
MISSION IDENTIFIER AND OBSERVATION NUMBER NOAAZ 0512A LILI			

(ABBREVIATED) (DETAILED) VORTEX DATA MESSAGE

A	17/1911	Z	DATE AND TIME OF FIX
B	20 DEG 54 MIN N S		LATITUDE OF VORTEX FIX *
	83 DEG 09 MIN E W		LONGITUDE OF VORTEX FIX *
C	950 MB 1290	M	MINIMUM HEIGHT AT STANDARD LEVEL
D	NA	KT	ESTIMATE OF MAXIMUM SURFACE WIND OBSERVED
E	NA DEG	NM	BEARING AND RANGE FROM CENTER OF MAXIMUM SURFACE WIND
F	55 DEG 65	KT	MAXIMUM FLIGHT LEVEL WIND NEAR CENTER
G	030 DEG 07	NM	BEARING AND RANGE FROM CENTER OF MAXIMUM FLIGHT LEVEL WIND
H	EXTRAP 983	MB	MINIMUM SEA LEVEL PRESSURE COMPUTED FROM DROPSONDE OR EXTRAPOLATED FROM WITHIN 1500 FT OF SEA SURFACE
I	C/	M	MAXIMUM FLIGHT LEVEL TEMP/PRESSURE ALTITUDE OUTSIDE EYE
J	C/	M	MAXIMUM FLIGHT LEVEL TEMP/PRESSURE ALTITUDE INSIDE EYE
K	C/	C	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 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	DEG MIN N S	CONFIRMATION OF FIX: Coordinates and Time *	
	DEG MIN E W		
	Z		
O	/	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; 8 - 850 mb; 7 - 700 mb; 5 - 500 mb; 4 - 400 mb; 3 - 300 mb; 2 - 200 mb; 9 - Other.	
P	/	NM	NAVIGATION FIX ACCURACY/METEOROLOGICAL ACCURACY
Q	REMARKS		

SLP EXTRAP FROM 850 MB
EYEWALL OPEN SW QUAD
MAX FL WIND 65 KT NE QUAD

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 for scheduled fixes and at the ARWO's discretion for unscheduled (intermediate) fixes.
* CHECK SUM REQUIRED IN WESTPAC.

DATE 10/17/96		SCHEDULED FIX TIME 1800Z		AIRCRAFT NUMBER N42RF		ARWO	
MANOP HEADING (PRECEDENCE IMMEDIATE)							
MISSION IDENTIFIER AND OBSERVATION NUMBER NOAAZ 0512A LILI							
(ABBREVIATED) (DETAILED) VORTEX DATA MESSAGE							
A	17/1911		Z	DATE AND TIME OF FIX			
B	20 DEG 54 MIN (N) S		LATITUDE OF VORTEX FIX *				
	83 DEG 09 MIN E (W)		LONGITUDE OF VORTEX FIX *				
C	950 MB 1290		M	MINIMUM HEIGHT AT STANDARD LEVEL			
D	NA		KT	ESTIMATE OF MAXIMUM SURFACE WIND OBSERVED			
E	NA DEG		NM	BEARING AND RANGE FROM CENTER OF MAXIMUM SURFACE WIND			
F	155 DEG 65		KT	MAXIMUM FLIGHT LEVEL WIND NEAR CENTER			
G	030 DEG 07		NM	BEARING AND RANGE FROM CENTER OF MAXIMUM FLIGHT LEVEL WIND			
H	EXTRAP 983		MB	MINIMUM SEA LEVEL PRESSURE COMPUTED FROM DROPSONDE OR EXTRAPOLATED FROM WITHIN 1500 FT OF SEA SURFACE			
I	C/		M	MAXIMUM FLIGHT LEVEL TEMP / PRESSURE ALTITUDE OUTSIDE EYE			
J	C/		M	MAXIMUM FLIGHT LEVEL TEMP / PRESSURE ALTITUDE INSIDE EYE			
K	C/		C	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 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	DEG MIN N S		CONFIRMATION OF FIX: Coordinates and Time *				
	DEG MIN E W						
	Z						
O	/		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; 8 - 850 mb; 7 - 700 mb; 5 - 500 mb; 4 - 400 mb; 3 - 300 mb; 2 - 200 mb; 9 - Other.				
P	/		NM	NAVIGATION FIX ACCURACY/METEOROLOGICAL ACCURACY			
Q	REMARKS SLP EXTRAP FROM 850 MB EYEWALL OPEN SW QUAD MAX FL WIND 65 KT NE QUAD						

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 for scheduled fixes and at the ARWO's discretion for unscheduled (intermediate) fixes.

* CHECK SUM REQUIRED IN WESTPAC.

DATE 10/17/96	SCHEDULED FIX TIME 0000Z	AIRCRAFT NUMBER N42RF	ARWO
MANOP HEADING (PRECEDENCE IMMEDIATE)			
MISSION IDENTIFIER AND OBSERVATION NUMBER NOAA2 0512A LILI			
(ABBREVIATED) (DETAILED) VORTEX DATA MESSAGE			
A	17/2354	Z	DATE AND TIME OF FIX
B	21 DEG 06 MIN N S		LATITUDE OF VORTEX FIX *
B	82 DEG 46 MIN E W		LONGITUDE OF VORTEX FIX *
C	850 MB 1280	M	MINIMUM HEIGHT AT STANDARD LEVEL
D	NA	KT	ESTIMATE OF MAXIMUM SURFACE WIND OBSERVED
E	NA DEG	NM	BEARING AND RANGE FROM CENTER OF MAXIMUM SURFACE WIND
F	320 DEG 59	KT	MAXIMUM FLIGHT LEVEL WIND NEAR CENTER
G	260 DEG 5	NM	BEARING AND RANGE FROM CENTER OF MAXIMUM FLIGHT LEVEL WIND
H	EXTRAP 982	MB	MINIMUM SEA LEVEL PRESSURE COMPUTED FROM DROPSONDE OR EXTRAPOLATED FROM WITHIN 1500 FT OF SEA SURFACE
I	21 C/ 1545	M	MAXIMUM FLIGHT LEVEL TEMP / PRESSURE ALTITUDE OUTSIDE EYE
J	24 C/ 1650	M	MAXIMUM FLIGHT LEVEL TEMP / PRESSURE ALTITUDE INSIDE EYE
K	17 C/ NA	C	DEWPOINT TEMP / SEA SURFACE TEMP INSIDE EYE
L	NA		EYE CHARACTER: Closed wall, poorly defined, open SW, etc.
M	NA		EYE SHAPE/ORIENTATION/DIAMETER. Code eye shape as: C - Circular; CO - Concentric; E - Elliptical. Transmit orientation of 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	21 DEG 06 MIN N S 82 DEG 46 MIN E W 17/2354	Z	CONFIRMATION OF FIX: Coordinates and Time *
O	1345 / 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; 8 - 850 mb; 7 - 700 mb; 5 - 500 mb; 4 - 400 mb; 3 - 300 mb; 2 - 200 mb; 9 - Other.
P	1 / 2	NM	NAVIGATION FIX ACCURACY/METEOROLOGICAL ACCURACY
Q	REMARKS MAX FL WIND 78 KTS 8 MI E OF FL CNTR SLP EXTRAP FROM 850 MB NO EYEWALL WEST HALF LO LVL CNTR APPEARS 5 MILES EAST OF FL CNTR BASED ON RADAR		

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 for scheduled fixes and at the ARWO's discretion for unscheduled (intermediate) fixes.

* CHECK SUM REQUIRED IN WESTPAC.

DATE 10/18/96		SCHEDULED FIX TIME 0000Z		AIRCRAFT NUMBER N42RF		ARWO	
MANOP HEADING (PRECEDENCE IMMEDIATE)							
MISSION IDENTIFIER AND OBSERVATION NUMBER NOAA2 0512A LILT							
(ABBREVIATED) (DETAILED) VORTEX DATA MESSAGE							
A	17/2306 Z			DATE AND TIME OF FIX			
B	21 DEG 03 MIN N S			LATITUDE OF VORTEX FIX *			
	82 DEG 57 MIN E W			LONGITUDE OF VORTEX FIX *			
C	850 MB 1280 M			MINIMUM HEIGHT AT STANDARD LEVEL			
D	NA KT			ESTIMATE OF MAXIMUM SURFACE WIND OBSERVED			
E	NA DEG NM			BEARING AND RANGE FROM CENTER OF MAXIMUM SURFACE WIND			
F	020 DEG 44 KT			MAXIMUM FLIGHT LEVEL WIND NEAR CENTER			
G	290 DEG 5 NM			BEARING AND RANGE FROM CENTER OF MAXIMUM FLIGHT LEVEL WIND			
H	EXTRAP 982 MB			MINIMUM SEA LEVEL PRESSURE COMPUTED FROM DROPSONDE OR EXTRAPOLATED FROM WITHIN 1500 FT OF SEA SURFACE			
I	20 C/ 1576 M			MAXIMUM FLIGHT LEVEL TEMP / PRESSURE ALTITUDE OUTSIDE EYE			
J	24 C/ 1739 M			MAXIMUM FLIGHT LEVEL TEMP / PRESSURE ALTITUDE INSIDE EYE			
K	17 C/ NA C			DEWPOINT TEMP / SEA SURFACE TEMP INSIDE EYE			
L	NA			EYE CHARACTER: Closed wall, poorly defined, open SW, etc.			
M	NA			EYE SHAPE/ORIENTATION/DIAMETER. Code eye shape as: C - Circular; CO - Concentric; E - Elliptical. Transmit orientation of 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 5NM. CO8-14 - Concentric eye, diameter inner eye 8 NM, outer eye 14 NM.			
N	21 DEG 03 MIN N S			CONFIRMATION OF FIX: Coordinates and Time *			
	82 DEG 57 MIN E W						
	17/2306 Z						
O	1345 / 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; 8 - 850 mb; 7 - 700 mb; 5 - 500 mb; 4 - 400 mb; 3 - 300 mb; 2 - 200 mb; 9 - Other.			
P	1 1 2 NM			NAVIGATION FIX ACCURACY/METEOROLOGICAL ACCURACY			
Q	REMARKS SUP EXTRAP FROM 850 MB MAX FL WIND 75 KTS 12 SE OF FL CNTR LO LVL CNTR APPEARS 6 MILES EAST OF FL LEVEL BASED ON RADAR NO EYEWALL SOUTH HALF						

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 for scheduled fixes and at the ARWO's discretion for unscheduled (intermediate) fixes.

* CHECK SUM REQUIRED IN WESTPAC.

DATE 10/17/96		SCHEDULED FIX TIME		AIRCRAFT NUMBER N42RF		ARWO	
MANOP HEADING (PRECEDENCE IMMEDIATE)							
MISSION IDENTIFIER AND OBSERVATION NUMBER NOAAZ 0512A LILI							
(ABBREVIATED) (DETAILED) VORTEX DATA MESSAGE							
A	17/2201	Z	DATE AND TIME OF FIX				
B	21 DEG 03 MIN N S		LATITUDE OF VORTEX FIX *				
	83 DEG 07 MIN E W		LONGITUDE OF VORTEX FIX *				
C	850 MB 1288	M	MINIMUM HEIGHT AT STANDARD LEVEL				
D	NA	KT	ESTIMATE OF MAXIMUM SURFACE WIND OBSERVED				
E	NA DEG	NM	BEARING AND RANGE FROM CENTER OF MAXIMUM SURFACE WIND				
F	320 DEG 55	KT	MAXIMUM FLIGHT LEVEL WIND NEAR CENTER				
G	250 DEG 9	NM	BEARING AND RANGE FROM CENTER OF MAXIMUM FLIGHT LEVEL WIND				
H	EXTRAP 983	MB	MINIMUM SEA LEVEL PRESSURE COMPUTED FROM DROPSONDE OR EXTRAPOLATED FROM WITHIN 1500 FT OF SEA SURFACE				
I	20 c/ 1555	M	MAXIMUM FLIGHT LEVEL TEMP / PRESSURE ALTITUDE OUTSIDE EYE				
J	240000 c/ 1605	M	MAXIMUM FLIGHT LEVEL TEMP / PRESSURE ALTITUDE INSIDE EYE				
K	16 c/ NA	C	DEWPOINT TEMP / SEA SURFACE TEMP INSIDE EYE				
L	NA		EYE CHARACTER: Closed wall, poorly defined, open SW, etc.				
M	NA		EYE SHAPE/ORIENTATION/DIAMETER. Code eye shape as: C - Circular; CO - Concentric; E - Elliptical. Transmit orientation of 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	21 DEG 03 MIN N S		CONFIRMATION OF FIX: Coordinates and Time *				
	83 DEG 07 MIN E W						
	17/2201	Z					
O	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; 8 - 850 mb; 7 - 700 mb; 5 - 500 mb; 4 - 400 mb; 3 - 300 mb; 2 - 200 mb; 9 - Other.				
P	2 / 2	NM	NAVIGATION FIX ACCURACY/METEOROLOGICAL ACCURACY				
Q	REMARKS SLP EXTRAP FROM 850 MB NO EYEWALL WEST HALF MAX FL WIND 65 KT NE QUAD						
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 for scheduled fixes and at the ARWO's discretion for unscheduled (intermediate) fixes. * CHECK SUM REQUIRED IN WESTPAC.							

DATE 10/17/96		SCHEDULED FIX TIME		AIRCRAFT NUMBER N42RF		ARWO	
MANOP HEADING (PRECEDENCE IMMEDIATE)							
MISSION IDENTIFIER AND OBSERVATION NUMBER NOAA2 0512A LILI							
(ABBREVIATED) (DETAILED) VORTEX DATA MESSAGE							
A	17/1911		Z	DATE AND TIME OF FIX			
B	20 DEG 54 MIN N S			LATITUDE OF VORTEX FIX *			
	83 DEG 09 MIN E W			LONGITUDE OF VORTEX FIX *			
C	850 MB 1290		M	MINIMUM HEIGHT AT STANDARD LEVEL			
D	NA		KT	ESTIMATE OF MAXIMUM SURFACE WIND OBSERVED			
E	NA DEG		NM	BEARING AND RANGE FROM CENTER OF MAXIMUM SURFACE WIND			
F	155 DEG 65		KT	MAXIMUM FLIGHT LEVEL WIND NEAR CENTER			
G	030 DEG 7		NM	BEARING AND RANGE FROM CENTER OF MAXIMUM FLIGHT LEVEL WIND			
H	EXTRAP 983		MB	MINIMUM SEA LEVEL PRESSURE COMPUTED FROM DROPSONDE OR EXTRAPOLATED FROM WITHIN 1500 FT OF SEA SURFACE			
I	19 c/ 1396		M	MAXIMUM FLIGHT LEVEL TEMP / PRESSURE ALTITUDE OUTSIDE EYE			
J	23 c/ 1648		M	MAXIMUM FLIGHT LEVEL TEMP / PRESSURE ALTITUDE INSIDE EYE			
K	17.0 c/ NA		C	DEWPOINT TEMP / SEA SURFACE TEMP INSIDE EYE			
L	OPEN SW			EYE CHARACTER: Closed wall, poorly defined, open SW, etc.			
M	C10			EYE SHAPE/ORIENTATION/DIAMETER. Code eye shape as: C - Circular; CO - Concentric; E - Elliptical. Transmit orientation of 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	20 DEG 54 MIN N S			CONFIRMATION OF FIX: Coordinates and Time *			
	83 DEG 09 MIN E W						
	17/1911		Z				
O	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; 8 - 850 mb; 7 - 700 mb; 5 - 500 mb; 4 - 400 mb; 3 - 300 mb; 2 - 200 mb; 9 - Other.			
P	2 / 2		NM	NAVIGATION FIX ACCURACY/METEOROLOGICAL ACCURACY			
Q				REMARKS SLP EXTRAP FROM 850 MB EYEWALL OPEN SW QUAD MAX FL WIND 65 KT NE QUAD			

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 for scheduled fixes and at the ARWO's discretion for unscheduled (intermediate) fixes.

* CHECK SUM REQUIRED IN WESTPAC.

DATE 10/17/96		SCHEDULED FIX TIME 2100Z		AIRCRAFT NUMBER N42RT		ARWO	
MANOP HEADING (PRECEDENCE IMMEDIATE)							
MISSION IDENTIFIER AND OBSERVATION NUMBER NOAAZ 0512A LILI							
(ABBREVIATED) (DETAILED) VORTEX DATA MESSAGE							
A	17/2045	Z	DATE AND TIME OF FIX				
B	21 DEG 04 MIN (N) S		LATITUDE OF VORTEX FIX *				
	83 DEG 09 MIN E (W)		LONGITUDE OF VORTEX FIX *				
C	850 MB 1280	M	MINIMUM HEIGHT AT STANDARD LEVEL				
D	NA	KT	ESTIMATE OF MAXIMUM SURFACE WIND OBSERVED				
E	NA DEG	NM	BEARING AND RANGE FROM CENTER OF MAXIMUM SURFACE WIND				
F	235 DEG 60	KT	MAXIMUM FLIGHT LEVEL WIND NEAR CENTER				
G	150 DEG 6	NM	BEARING AND RANGE FROM CENTER OF MAXIMUM FLIGHT LEVEL WIND				
H	EXTRAP 982	MB	MINIMUM SEA LEVEL PRESSURE COMPUTED FROM DROPSONDE OR EXTRAPOLATED FROM WITHIN 1500 FT OF SEA SURFACE				
I	19 c/ 1580	M	MAXIMUM FLIGHT LEVEL TEMP / PRESSURE ALTITUDE OUTSIDE EYE				
J	22 c/ 1670	M	MAXIMUM FLIGHT LEVEL TEMP / PRESSURE ALTITUDE INSIDE EYE				
K	22.5 c/ NA	C	DEWPOINT TEMP / SEA SURFACE TEMP INSIDE EYE				
L	POORLY DEFINED NA		EYE CHARACTER: Closed wall, poorly defined, open SW, etc.				
M	NA		EYE SHAPE/ORIENTATION/DIAMETER. Code eye shape as: C - Circular; CO - Concentric; E - Elliptical. Transmit orientation of 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	21 DEG 04 MIN (N) S		CONFIRMATION OF FIX: Coordinates and Time *				
	83 DEG 09 MIN E (W)						
	17/2045	Z					
O	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; 8 - 850 mb; 7 - 700 mb; 5 - 500 mb; 4 - 400 mb; 3 - 300 mb; 2 - 200 mb; 9 - Other.				
P	2 / 2	NM	NAVIGATION FIX ACCURACY/METEOROLOGICAL ACCURACY				
Q	REMARKS SLP EXTRAP FROM 850 MB MAX FL WIND 65 KT NE QUAD NO EYEWALL SOUTH HALF						

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 for scheduled fixes and at the ARWO's discretion for unscheduled (intermediate) fixes.

* CHECK SUM REQUIRED IN WESTPAC.

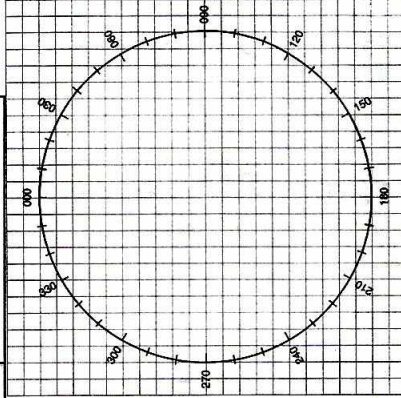
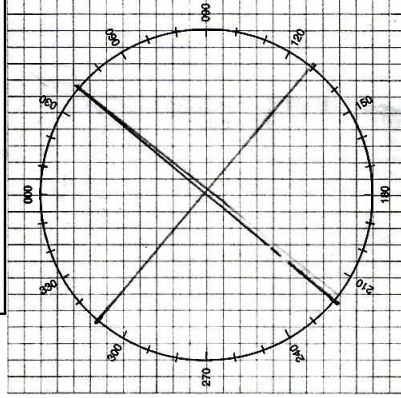
ABBREVIATED/DETAILED VORTEX DATA MESSAGE

Stan -

- HF comms very tough @ 1500' on E side of storm - lots of rainbands.
- LF radar inop for much of flight. Worked at end.
- Only one working VHF radio.
- TT1 vs TT2 looked very good down low.
- Replaced ABD 159 early in flight - replacement worked well.
- I set up time series screens 1 & 2 for needed vortex info. If they're too busy for you, move parameters to other screens.

[illegible]

POSITION REPORT



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 _____, NOAA _____, NOAA _____

- POSITION _____ **N / S**

- HEADING	TRUE/MAG
1.0	1.0
2.0	2.0
3.0	3.0
4.0	4.0
5.0	5.0
6.0	6.0
7.0	7.0
8.0	8.0
9.0	9.0
10.0	10.0
11.0	11.0
12.0	12.0
13.0	13.0
14.0	14.0
15.0	15.0
16.0	16.0
17.0	17.0
18.0	18.0
19.0	19.0
20.0	20.0
21.0	21.0
22.0	22.0
23.0	23.0
24.0	24.0
25.0	25.0
26.0	26.0
27.0	27.0
28.0	28.0
29.0	29.0
30.0	30.0
31.0	31.0
32.0	32.0
33.0	33.0
34.0	34.0
35.0	35.0
36.0	36.0
37.0	37.0
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39.0	39.0
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41.0	41.0
42.0	42.0
43.0	43.0
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45.0	45.0
46.0	46.0
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88.0	88.0
89.0	89.0
90.0	90.0
91.0	91.0
92.0	92.0
93.0	93.0
94.0	94.0
95.0	95.0
96.0	96.0
97.0	97.0
98.0	98.0
99.0	99.0
100.0	100.0

-AT KTS TRUE/INDICATED

- FLIGHT LEVEL OR ALTITUDE

- WE ARE A P-3 AIRCRAFT WITH _____ SOULS ON BOARD _____

- NATURE OF EMERGENCY

- ASSISTANCE DESIN

- PILOT INTENTIONS

[illegible]