

FLT ID: H960018	FM: KMCF	TO: KMCF
FLT NO: 97-6	BLK IN: 1104Z	ATA: 1056Z
ETD: 0400Z	BLK OUT: 0349Z	ATD: 0356Z
ETE:	BLK TIME: 7:15	FLT TIME: 7:00
SPONSOR ORG: NHC	PROGRAM: RECCO	PURPOSE: H. L. L. L.

DAO PERSONNEL

AC KENNEDY ✓	SYS ENG ROLES
CP KENUL	DATA SYS McMILLAN
NAV KOZAK ✓	RADAR OFFUTT
FE BAST	BT/ODW McNAMARA
RADIO SANS SOURCE	CLD PHYS
FD DAMIANO ✓	DOPPLER

PARTICIPATING SCIENTIST/VISITORS/DAO

LAST, FIRST NAME	ACTIVITY ON A/C	AFFILIATION

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

0532Z	0700Z	0810Z	0824Z	0753 changed
980 MB	21° 49'	2206	2207'	gate spacing
21° 41' N	82° 06'	8280	8158'	on LFT 255
82° 24' W	978 MB	975 MB	975 MB	
9	9	9	9	

15 minutes after fix gave to Damiano

SOWE HAD 973.5 SPLASH PRS

Left area at 0920Z due to storm making landfall.

U.S. DEPT. COMM./NOAA/OAO - DATA SECTION WORK FORM NO.2 OAOWF2 FILE

FLT ID: H961018 TIME OFF: 0356Z TIME ON: 1056Z

	A/C T/O	WX STN	A/C LAND	WX STN
PRESSURE	<u>1010.8</u>		<u>1008.7</u>	

NO DATA DISPOSITION/DATE/QUALITY

1/SEC FLT LVL TAPES

FAST FLT LVL TAPES

RADAR TAPES

DOPPLER TAPES

ODW CASSETTES

HARD COPIES

AXBT

AXCP

~~AX~~ GPS

PHOTOGRAPHY

	FWD	LS	RS	VERT
ON				
OFF				
RATE				

REMARKS

H. LILI Recco

FLIGHT #03 H961018

TYPE OF DATA

SENSOR OR OPTION

INE	1
Accelerometer	1
Temperature probe	1
Altitude change option (for vertical winds)	RA159
Static pressure	Rosemount fuselage
Dynamic pressure	Rosemount fuselage
Time source	Micro 99
Constants file	CO2965.CON

Notes:

There were two time/data gaps:

103032Z - 103040Z
103051Z - 103100Z

Spikes in fuselage static pressure (PSF) were removed and patched during the following time frames:

055500Z - 055700Z
084600Z - 084900Z
085800Z - 090300Z

Downward spikes in radar altitude are a result of overflying land.

A GPS dropsonde was launched during the third pass through the eye of the hurricane. Splash pressure was 973.5 mb.

The aircraft INE positions were renavigated 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.

	Takeoff	Landing
	-----	-----
Aircraft static pressure	1010.8mb	1008.7mb
Corrected tower pressure	1010.0mb	1008.0mb

Flight Meteorologist: A. Barry Damiano, (813) 828-3310 ext. 3073

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TITLE (MAX 21 CHARACTERS) -- EX HURRICANE PAINE
H. LILI RECCO
YYMMDDL FLT I.D.
961018H
HHMMSS START TIME -99999 DEFAULT TO START OF DATA FOR PRINTOUT ONLY
035301
HHMMSS END TIME 999999 DEFAULT TO END OF DATA FOR PRINTOUT ONLY
110000
HHMMSS TAKE OFF TIME
035600
* NUMBER OF TAPES (I2) ...FOR STANDARD TAPE OUTPUT ONLY
03
* -----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)
0
* -----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)
20
* -----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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I961018

1358 KT
7.5 KT
979

TIME	LAT	LONG	TRK	HD	WD	WS	PA	GA	TA	TD	SP	PS		PO
041000	2102	8225	161	162	112	3	3756	3956	5.7	1.7	1007.6	632.0	—	57.5
042000	2622	8214	167	168	312	3	4925	5184	-1.4	-4.1	1006.7	545.5	—	75.5
044200	2443	8147	168	167	97	8	4931	5185	-0.7	-2.0	1004.0	545.2	—	73.0
050200	2300	8127	209	198	115	45	1539	1450	17.2	16.1	996.5	841.5	—	65.8
055600	2036	8328	225	233	297	30	1520	1527	19.6	14.7	1003.7	844.5	—	77.1
061100	2023	8252	88	87	278	39	1509	1511	19.7	15.4	1003.2	844.5	—	71.5
062000	2024	8208	89	92	254	45	1510	1509	19.0	18.5	1002.9	844.3	—	74.5
063600	2036	8116	318	305	215	53	1509	1511	19.1	16.6	1003.4	844.4	—	68.8
064800	2108	8145	309	295	226	61	1555	1510	18.3	18.6	997.4	839.4	—	73.3
072200	2156	8306	184	183	12	44	1556	1521	17.2	16.4	1000.0	840.2	—	76.5
073300	2106	8311	187	194	214	34	1528	1518	18.6	16.4	1002.3	842.6	—	73.9
074700	2054	8253	42	34	281	42	1517	1505	17.8	17.3	1002.5	843.8	—	76.0
080948	2206	8159	29	32	25	27	1733	1570	20.5	19.2	974.8	821.9	SONDE	69.2
084500	2114	8059	135	150	217	50	1535	1520	18.1	19.3	1006.6	843.6	—	78.8
085800	2119	8032	8	6	200	59	1519	1512	18.5	17.2	1002.4	843.4	—	80.3
092500	2123	8029	1	356	204	61	3049	3134	10.0	9.4	1001.4	696.9	—	75.4
102500	2556	8146	341	340	329	5	4919	5158	-4.2	-5.0	1004.5	546.2	—	69.2

DATE : 10/18/96

TO : Chief, AOC Flight Operations

FROM : Pilot/Flight Director, Aircraft N42RF ON 1104Z BLOCKTIME
OFF 0349Z 7:15

SUBJECT: Hazardous Duty

PURPOSE OF FLIGHT: RECCO INTO H- LILI

Hazardous Duty Pay is required for flight made on 10/18/96
(DATE)

Request based on FLYING INTO H- LILI

Personnel on board authorized Hazard Pay:

DAMIANO

ROLES

OFFUTT

MCMANARA

MCMILLAN

SANS SOUCI

BAST

PILOT/FLIGHT DIRECTOR: A. Barry Damiano

APPROVED: _____

DISAPPROVED: _____

CHIEF, AOC FLIGHT OPERATIONS: _____

974

DATE		SCHEDULED FIX TIME		AIRCRAFT NUMBER		ARWO	
MANOP HEADING (PRECEDENCE IMMEDIATE)							
MISSION IDENTIFIER AND OBSERVATION NUMBER NOAA2 0612A LILT 0B							
(ABBREVIATED) (DETAILED) VORTEX DATA MESSAGE							
A	18/0810		Z	DATE AND TIME OF FIX			
B	22 DEG 06 MIN N S			LATITUDE OF VORTEX FIX *			
	82 DEG 00 MIN E W			LONGITUDE OF VORTEX FIX *			
C	850 MB		M	MINIMUM HEIGHT AT STANDARD LEVEL			
D	NA		KT	ESTIMATE OF MAXIMUM SURFACE WIND OBSERVED			
E	NA DEG NA		NM	BEARING AND RANGE FROM CENTER OF MAXIMUM SURFACE WIND			
F	DEG		KT	MAXIMUM FLIGHT LEVEL WIND NEAR CENTER			
G	DEG		NM	BEARING AND RANGE FROM CENTER OF MAXIMUM FLIGHT LEVEL WIND			
H	EXTRAP 975		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						
/				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						

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		SCHEDULED FIX TIME		AIRCRAFT NUMBER		ARWO	
MANOP HEADING (PRECEDENCE IMMEDIATE)							
MISSION IDENTIFIER AND OBSERVATION NUMBER NORAA 2 0612A LILI OB							
(ABBREVIATED) (DETAILED) VORTEX DATA MESSAGE							
A	18/0701		Z	DATE AND TIME OF FIX			
B	21 DEG 49 MIN N S			LATITUDE OF VORTEX FIX *			
B	82 DEG 06 MIN E W			LONGITUDE OF VORTEX FIX *			
C	850 MB 1233		M	MINIMUM HEIGHT AT STANDARD LEVEL			
D	NA		KT	ESTIMATE OF MAXIMUM SURFACE WIND OBSERVED			
E	NA		NM	BEARING AND RANGE FROM CENTER OF MAXIMUM SURFACE WIND			
F	250 DEG 80		KT	MAXIMUM FLIGHT LEVEL WIND NEAR CENTER			
G	135 DEG 25		NM	BEARING AND RANGE FROM CENTER OF MAXIMUM FLIGHT LEVEL WIND			
H	EXTRAP 978		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 *				
N	DEG MIN E W						
N	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						

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.

2223
F210

DATE		SCHEDULED FIX TIME		AIRCRAFT NUMBER		ARWO	
MANOP HEADING (PRECEDENCE IMMEDIATE)							
MISSION IDENTIFIER AND OBSERVATION NUMBER NOAA 0612H LILI OB 09							
(ABBREVIATED) <u>DETAILED</u> VORTEX DATA MESSAGE							
A	18/0824 Z			DATE AND TIME OF FIX			
B	22 DEG 07 MIN N S			LATITUDE OF VORTEX FIX *			
	81 DEG 58 MIN E W			LONGITUDE OF VORTEX FIX *			
C	850 MB 1210 M			MINIMUM HEIGHT AT STANDARD LEVEL			
D	NA KT			ESTIMATE OF MAXIMUM SURFACE WIND OBSERVED			
E	NA NM			BEARING AND RANGE FROM CENTER OF MAXIMUM SURFACE WIND			
F	075 DEG 75 KT			MAXIMUM FLIGHT LEVEL WIND NEAR CENTER			
G	320 DEG 18 NM			BEARING AND RANGE FROM CENTER OF MAXIMUM FLIGHT LEVEL WIND			
H	EXTRAP 975 MB			MINIMUM SEA LEVEL PRESSURE COMPUTED FROM DROPSONDE OR EXTRAPOLATED FROM WITHIN 1500 FT OF SEA SURFACE			
I	18 C/ 1680 M			MAXIMUM FLIGHT LEVEL TEMP / PRESSURE ALTITUDE OUTSIDE EYE			
J	22 C/ 1750 M			MAXIMUM FLIGHT LEVEL TEMP / PRESSURE ALTITUDE INSIDE EYE			
K	20 C/ NA C			DEWPOINT TEMP / SEA SURFACE TEMP INSIDE EYE			
L	OPEN S			EYE CHARACTER: Closed wall, poorly defined, open SW, etc.			
M	C 18			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	22 DEG 07 MIN N S			CONFIRMATION OF FIX: Coordinates and Time *			
	81 DEG 58 MIN E W						
	18/0824 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	1 / 2 NM			NAVIGATION FIX ACCURACY/METEOROLOGICAL ACCURACY			
Q	REMARKS FAIR RADAR PRESENTATION SLP EXTRAP FROM 850 MB MAX FL WIND 80 KTS SE QUAD 0655Z CENTER TOO CLOSE TO LAND TO COMPLETE FULL LEG TO NNW						

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		SCHEDULED FIX TIME		AIRCRAFT NUMBER N42RF	ARWO DAMIANO
MANOP HEADING (PRECEDENCE IMMEDIATE)					
MISSION IDENTIFIER AND OBSERVATION NUMBER NOAA 0612A LILI OB 04					
(ABBREVIATED) (DETAILED) VORTEX DATA MESSAGE					
A	18/0532 Z		DATE AND TIME OF FIX		
B	21 DEG 41 MIN N S		LATITUDE OF VORTEX FIX *		
	82 DEG 24 MIN E W		LONGITUDE OF VORTEX FIX *		
C	850 MB 1251 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	120 DEG 73 KT		MAXIMUM FLIGHT LEVEL WIND NEAR CENTER		
G	035 DEG 48 NM		BEARING AND RANGE FROM CENTER OF MAXIMUM FLIGHT LEVEL WIND		
H	EXTRAP 980 MB		MINIMUM SEA LEVEL PRESSURE COMPUTED FROM DROPSONDE OR EXTRAPOLATED FROM WITHIN 1500 FT OF SEA SURFACE		
I	18 C/ 1550 M		MAXIMUM FLIGHT LEVEL TEMP / PRESSURE ALTITUDE OUTSIDE EYE		
J	21 C/ 1714 M		MAXIMUM FLIGHT LEVEL TEMP / PRESSURE ALTITUDE INSIDE EYE		
K	20 C/ NA C		DEWPOINT TEMP / SEA SURFACE TEMP INSIDE EYE		
L	C 15		EYE CHARACTER: Closed wall, poorly defined, open SW, etc.		
M	OPEN SW		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 41 MIN N S		CONFIRMATION OF FIX: Coordinates and Time *		
	82 DEG 24 MIN E W				
	18/0532 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	1 / 2 NM		NAVIGATION FIX ACCURACY/METEOROLOGICAL ACCURACY		
Q	REMARKS FAIR RADAR PRESENTATION MAX FL WIND 73 KTS NE QUAD 0525Z SLP EXTRAP FROM 850 MB MAX FL WIND OVER LAND				

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		SCHEDULED FIX TIME		AIRCRAFT NUMBER N42KF	ARWO DAMIANO
MANOP HEADING (PRECEDENCE IMMEDIATE)					
MISSION IDENTIFIER AND OBSERVATION NUMBER NOAA 0612A LILI OB 04					
(ABBREVIATED) (DETAILED) VORTEX DATA MESSAGE					
A	18/0532 Z		DATE AND TIME OF FIX		
B	21 DEG 41 MIN N S		LATITUDE OF VORTEX FIX *		
	82 DEG 24 MIN E W		LONGITUDE OF VORTEX FIX *		
C	850 MB 1251 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	120 DEG 73 KT		MAXIMUM FLIGHT LEVEL WIND NEAR CENTER		
G	035 DEG 48 NM		BEARING AND RANGE FROM CENTER OF MAXIMUM FLIGHT LEVEL WIND		
H	EXTRAP 980 MB		MINIMUM SEA LEVEL PRESSURE COMPUTED FROM DROPSONDE OR EXTRAPOLATED FROM WITHIN 1500 FT OF SEA SURFACE		
I	18 C/ 1550 M		MAXIMUM FLIGHT LEVEL TEMP/PRESSURE ALTITUDE OUTSIDE EYE		
J	21 C/ 1714 M		MAXIMUM FLIGHT LEVEL TEMP/PRESSURE ALTITUDE INSIDE EYE		
K	20 C/ NA C		DEWPOINT TEMP/SEA SURFACE TEMP INSIDE EYE		
L	C 15		EYE CHARACTER: Closed wall, poorly defined, open SW, etc.		
M	OPEN SW		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 41 MIN N S		CONFIRMATION OF FIX: Coordinates and Time *		
	82 DEG 24 MIN E W				
	18/0532 Z				
O	1234 / 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 FAIR RADAR PRESENTATION MAX FL WIND 73 KTS NE QUAD 0525Z SLP EXTRAP FROM 850 MB MAX FL WIND OVER LAND				

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.

2353
F210

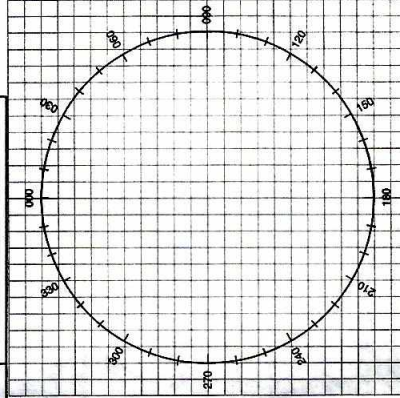
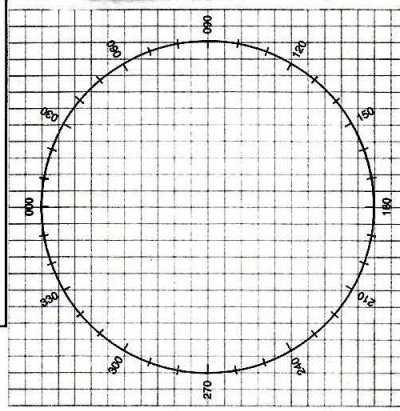
DATE		SCHEDULED FIX TIME	AIRCRAFT NUMBER	ARWO
MANOP HEADING (PRECEDENCE IMMEDIATE)				
MISSION IDENTIFIER AND OBSERVATION NUMBER NOAH 001-H LILI OBS 09				
(ABBREVIATED) (DETAILED) VORTEX DATA MESSAGE				
A	18/0824 Z	DATE AND TIME OF FIX		
B	22 DEG 07 MIN N S	LATITUDE OF VORTEX FIX *		
B	81 DEG 58 MIN E W	LONGITUDE OF VORTEX FIX *		
C	850 MB 1210 M	MINIMUM HEIGHT AT STANDARD LEVEL		
D	NA KT	ESTIMATE OF MAXIMUM SURFACE WIND OBSERVED		
E	NA NM	BEARING AND RANGE FROM CENTER OF MAXIMUM SURFACE WIND		
F	075 DEG 75 KT	MAXIMUM FLIGHT LEVEL WIND NEAR CENTER		
G	320 DEG 18 NM	BEARING AND RANGE FROM CENTER OF MAXIMUM FLIGHT LEVEL WIND		
H	EXTRAP 975 MB	MINIMUM SEA LEVEL PRESSURE COMPUTED FROM DROPSONDE OR EXTRAPOLATED FROM WITHIN 1500 FT OF SEA SURFACE		
I	18 C/ 1680 M	MAXIMUM FLIGHT LEVEL TEMP / PRESSURE ALTITUDE OUTSIDE EYE		
J	22 C/ 1750 M	MAXIMUM FLIGHT LEVEL TEMP / PRESSURE ALTITUDE INSIDE EYE		
K	20 C/ NA C	DEWPOINT TEMP / SEA SURFACE TEMP INSIDE EYE		
L	OPEN S	EYE CHARACTER: Closed wall, poorly defined, open SW, etc.		
M	C18	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	22 DEG 07 MIN N S 81 DEG 58 MIN E W 18/0824 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	1/2 NM	NAVIGATION FIX ACCURACY/METEOROLOGICAL ACCURACY		
Q	REMARKS FAIR RADAR PRESENTATION SLP EXTRAP FROM 850 MB MAX FL WIND 80 KTS SE QUAD 0655 Z CENTER TOO CLOSE TO LAND TO COMPLETE FULL LEG TO NNW NW			

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.

POSITION REPORT

FREQ	ALT	HDG	OTHER
			2320
			2320
			8210
			8240
			2250
			8210
			2250
			8240



6. NEXT POSITION

- FLEET INTENTIONS

- WE HAVE **ENDURANCE REMAINING**

[illegible]