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

Flt ID: 040925I	From: KMCF	To: KNEW
Flt. No: 04-070	Blk In: 0435z	Time On: 0428z
ETD: 1930	Blk Out: 1912z	Time Off: 1925z
ETE: 9+30	Blk Time: 9+23 9.4 Hrs	Flt Time: 9+03 9.1 Hrs
Sponsoring Org: NOAA/NHC	Program: Hurr 2004	Purpose: H. JEANNE

AOC Flight Crew

Aircraft Commander: SILAH, M (-5)	Data System: LYNCH, T ✓
Co-Pilot: STRONG, T ✓ CHOY, B ✓	AVAPS: SMITH, J ✓
Navigator: GALLAGHER, T ✓	System Eng:
Flight Eng: FLOYD, D ✓ KLIPPEL, J ✓	A A:
Flight Director: ~~SHEPHERD~~, T ✓	A A:
Avionics: SANS SOUCI, D	Crew Chief:

Participating Scientists / Visitors

Name (Last, First)	Activity on Aircraft	Affiliation
BLACK, M ✓	PI	HRD
LITCHENDORF, T	PDA	
SEGUIN, W ✓	OBS	OAR

Remarks (Storm Name, Mission ID, Recco Times, Fix Times)

Storm Name: JEANNE

Mission ID: NOAA3 2211A JEANNE

(See reverse for additional remarks)

Recco Times
1-1926
2-2006
-2058
2131
2222
2343
0126

Fix #	Fix Time
1	2032 (21)
2	2156
3	2314 (00)
4	0028
5	-0216 (03)

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

Flight ID: 040925I	Time Off: 1925	Time On: 0428

	A/C - Takeoff	Wx Station - Takeoff	A/C - Land	Wx Station - Land
Pressure	1005.6	29.72	1013.7	29.97

	Number	Data Disposition / Date / Quality
Flight Level Tapes	2	
Radar Tapes	1	
Cloud Physics Tapes / CDs	—	
Video Tapes	4	
Dropsondes	38	Good: Bad: 23 HRD 15 NHC
AXBT	9	1 NO FIRE
AXCP		
AXCTD		

Remarks:

TT3 REMOVED for flight

- 1933 Radars ↑ & recording

1912

NOAA P-3 N43RF
CBLAST 2004
FLIGHT #15

Flight ID: I040925

Sensor or system	Number or Name
INE	1
Accelerometer	1
Temperature Probe	1
Dew Point Probe	2
Altimeter (for vertical wind)	RA-232
Static Pressure	Rosemount (fuselage)
Dynamic Pressure	Rosemount (fuselage)
Time Source	Micro 99
Constants File	CO3043.con

Local Met. Data: Not copied at takeoff

Take off: 1925Z
Land: 0428Z

The RA-232 was used for the entire flight (RA-159 was inoperative); however during the high altitude ferry portion of the flight from the storm the RA-232 had numerous spikes. The Collins GPS altitude was substituted for the RA-232 in this region (025056-041454).

The Johnson-Williams liquid water sensor was inoperative for the entire flight.

There were data gaps noted: 204521-204529; 204951-204959; 205000-205002; 205021-205027; 210921-210935; 211001-211013; 211041-211054; 220041-220043; 220541-220541; 000141-000143; 000211-000215; 000221-000226; 041150-041151; 041920-041923.

There were times during heavy precipitation events (e.g. eye wall penetrations) when the dew point exceeded ambient temperature yielding a RH of greater than 100%. This is probably due to a wet bulb effect on the total temperature probe and/or the dew pointer over heating while trying to remove excess moisture. In these instances, no corrections were attempted.

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

SPECIAL NOTE: Locations 80, 81, and 82 of record 5 in the standard data contain vertical ground speed, vertical air speed, and vertical wind speed computed using Dr. Dave Jorgensen's vertical wind algorithm. It is recommended that these values be used for vertical wind analysis.

	Take off	Land
Aircraft Static Pressure	1005.6 mb	1013.7 mb
Corrected Tower Pressure	1006.4 mb	1014.9 mb

Flight Director: Tom Shepherd
813-828-3310 x3053

Jeanne 040925i

Drop #	Drop Time	Channel	Tube	Lot	Comments	Good
1	2024	1	B			
2	2047	1	C		27.3°	✓
3	2124	1	D		NO TELEM	B
4	2139	1	F			✓
5	2212	1	G			
6	2256	3	C			✓
7	2323	3	E			
8	2346	3	F			✓
9	0034	3	G			

Drop Station Operator Notes

N43RF Hurricane / CBLAST '04 Flight Performance Log

Mission Jeanne Flt ID 040925i

SED Crew Lynch, Sans Souci, Smith

Pre-Flight 1700 Take-Off 19:24 Landing 04:28

	System			Pre-Flight	In-Flight			Post-Flight			
NAV	GPS	FM: 1		TL				LAT	LON	GS	RE
NAV	INE #1 Time On: 17:15	Aligned to: 0		DS				+33	-3.5	2	4
NAV	INE #2 Time On: 17:15	Aligned to: 0		DM				+55	-2.5	1	6
NAV	Diff GPS			TL							
RADAR	MARS Data	Start	Stop	Ready?	HRD?			# DATs ? 1 Given To: MB			
RADAR	MARS	19:33	04:20	TL	Y / N						
RADAR	MARS Data / Tape Status				LFRec	TARec	EOP's				
RADAR	MARS (LU8)	(Clean)		TL							
RADAR	MARS LU9	(Clean)		TL							
RADAR	RADAR R/T SN Tail 202/102 LF 102			TL	Mod Switches ON			Mod Switches (OFF)			
RADAR	Nose			DS				Power (OFF)			
PMS	FSSP Ref VDC:	Covers OFF		NI				Covers ~~ON~~			
PMS	Cloud Mono	Covers OFF		↓				Covers ~~ON~~			
PMS	CIP	Covers OFF		↓				Covers ~~ON~~			
PMS	SEA Data DAT	Start	Stop	Ready?	#DATS	Errors	Disk Write	Given To: —			
PMS	DAT Clean?			↓			Y / N				
TEMP		Cal High	Cal Low					Cal High		Cal Low	
TEMP	Temp #1	30.5	-30.4	TL				30.7		-30.2	
TEMP	Temp #2			TL				Power (OFF)			
TEMP	Temp #3			NI				Power (OFF)			
TEMP	Dewpoint (#1) (#2) (#3 (TDL))			TL (1)				Power (OFF)			
PRES	Attack / Slip Angle (AP) (DAP) (BP) (DBP)			TL				Power (OFF)			
PRES	Differential (PQ1) (PQ2) (PQ3) (PQ4)			TL				Power (OFF)			
PRES	Absolute (PS1) (PS2) (CBPS)			TL				Power (OFF)			
FLT LVL	Apn-159 SN: 66-024							Power (OFF)			
FLT LVL	Apn-232 SN: 1761			TL				Power (OFF)			
FLT LVL	Liquid Water J&W ~~King~~			JAS	28V WOW: ON ?			Power (OFF)			
FLT LVL	Radiometer (CO2) (SST)			TL	28V WOW: ON ?			Power (OFF)			
RAMS	RAMS Data	Start	Stop	Ready?	Errors 8:		Errors 9:	# DATs ? 2 Given To: JS			
RAMS	CPU: A (B)	19:11	04:36	TL	2		1	Power OFF			
RAMS	RAMS Data / Tape Status				Slow Rec		Fast Rec	Disk Records: 3388			
RAMS	RAMS (LU8)	(Clean)		TL	3388		33834				
RAMS	RAMS (LU9)	(Clean)		TL	3388		33834				
RAMS	Flight Director Laptop			TL				Power (OFF)			
RAMS	Network			HI							
RAMS	ASDL Mission #: 2211A Name: Jeanne				Freq: 32D		Block: 10	Power (OFF)			
RAMS	C.I. Printer	Start	Stop	Ready?	Paper Bin Stores			Given To: MB / JS			
RAMS	PRATE: 10	19:11	04:36	TL	0% 25% 50% (75%) 100%			Power (OFF)			
MISC	Exterior Walk Around (Plugs) (Covers)			JAS				Plugs Covers			
MISC	SATCOM (W/S) Inmarsat (GlobalStar)			JS/DS				Power (OFF)			
MISC	AXBT Internal # Loaded :			NA				# Launched : —			
MISC	AXBT External # Loaded : 10			DS	28V WOW			# Launched : 9			
MISC	AVAPS 47 # On Board :			JAS				# Dropped : 37			
MISC	Video Cameras	Start	Stop	Ready?	Cameras		Mode	# Tapes ? Given To:			
MISC	VHS (SVHS)	19:12	04:38	TL	(N)(L)(R)(D)		2 / (2)	Lens Cap ? : ✓			
MISC	FCU	—B—C—D—		TL				UPS OFF			
USER	SFMR (HRD) (AOC)										
USER	HRD Work Station							Accelerometers			
USER	NASA SRA			NU				#1 (2 G): 8205			
USER	ARL BAT Probe, SST & IRGA			↖				#2 (2.5 G): 6687			
USER	UW PDA							#3 (3 G): 5967			
USER	Scripps MASS, Laser Alt, IR Cam & Sono			NU				#4 (3.5 G): 2892			
USER	RSMAS Licor			TL							

Please Note any Discrepencies

Item #	Zulu Time	Problem Description	Initials	Status
(1)	Pre	Dev #1 off by ≈ 15°	TL	
(2)	"	QSFMC: At turn on - Rcvr Ref steps from 35 to 39 & then stabilizes. Rcvr Noise jumps right	TL	
—	—	up to 44 & stabilizes @ 47°		

#1

DATE	SCHEDULED RX TIME	AIRCRAFT NUMBER	FLIGHT DIRECTOR
9/25/04	21Z	N43RF	SHEPHERD

WX MISSION IDENTIFIER	OB NUMBER
NOAA3 2211A JEANNE	4

VORTEX DATA MESSAGE

A	25/2032 Z	DATE and TIME of FIX
B	26 DEG 55 MIN N S	LATITUDE of FIX
	78 DEG 43 MIN W E	LONGITUDE of FIX
C	700 MB 2659 M	MINIMUM HEIGHT of 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	042 DEG 108 KT	MAXIMUM FLIGHT LEVEL WIND NEAR CENTER
G	324 DEG 46 NM	BEARING and RANGE FROM CENTER OF MAXIMUM FLIGHT LEVEL WIND
H	950 MB	MINIMUM SEA LEVEL PRESSURE COMPUTED FROM DROPSONDE OR EXTRAPOLATED FROM FLIGHT LEVEL. IF EXTRAPOLATED, CLARIFY IN REMARKS.
I	17 C / 3048 M	MAXIMUM FLIGHT LEVEL TEMP / PRESSURE ALTITUDE OUTSIDE EYE
J	18 C / 3048 M	MAXIMUM FLIGHT LEVEL TEMP / PRESSURE ALTITUDE INSIDE EYE
K	11 C / NA C	DEWPOINT TEMP / SEA SURFACE TEMP INSIDE EYE
L	OPEN NE	EYE CHARACTER: Closed wall, poorly defined, open SW, etc.
M	E 28/45/30	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	12345/7	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 / NM	NAVIGATION FIX ACCURACY / METEOROLOGICAL ACCURACY
P	REMARKS	

MAX FL WIND 108 KT NW QUAD 2021Z
SLP FROM DROPSONDE

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

#2

DATE	SCHEDULED RX TIME	AIRCRAFT NUMBER	FLIGHT DIRECTOR
9/25/04	INT.	N43RF	SHEPHERD

WX MISSION IDENTIFIER: NOAA3 2211A JEANNE

OB NUMBER: 8

VORTEX DATA MESSAGE

A	25121562	DATE and TIME of FIX
B	27 DEG 02 MIN (N) S	LATITUDE of FIX
	78 DEG 56 MIN (W) E	LONGITUDE of FIX
C	700 MB 2665 M	MINIMUM HEIGHT of 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	126 DEG 100 KT	MAXIMUM FLIGHT LEVEL WIND NEAR CENTER
G	033 DEG 24 NM	BEARING and RANGE FROM CENTER OF MAXIMUM FLIGHT LEVEL WIND
H	951 951 MB	MINIMUM SEA LEVEL PRESSURE COMPUTED FROM DROPSONDE OR EXTRAPOLATED FROM FLIGHT LEVEL. IF EXTRAPOLATED, CLARIFY IN REMARKS.
I	16 C 13056 M	MAXIMUM FLIGHT LEVEL TEMP / PRESSURE ALTITUDE OUTSIDE EYE
J	17 C 13059 M	MAXIMUM FLIGHT LEVEL TEMP / PRESSURE ALTITUDE INSIDE EYE
K	12 C / NA C	DEWPOINT TEMP / SEA SURFACE TEMP INSIDE EYE
L	CLOSED	EYE CHARACTER: Closed wall, poorly defined, open SW, etc.
M	C 40	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	12345/7	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 108 KT NW QUAD 2021 Z
SLP FROM DROPSONDE
STRONGEST CONV W EYEWALL

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

#3

DATE	SCHEDULED RX TIME	AIRCRAFT NUMBER	FLIGHT DIRECTOR
9/14/04	00Z	N43RF	Shepherd

WX MISSION IDENTIFIER: NOAA3 2211A JEANNE — OB NUMBER: 14

VORTEX DATA MESSAGE

A	25 / 2314 Z	DATE and TIME of FIX
B	27 DEG 02 MIN (N) S	LATITUDE of FIX
	79 DEG 15 MIN (W) E	LONGITUDE of FIX
C	700 MB 2657 M	MINIMUM HEIGHT of 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	264 DEG 93 KT	MAXIMUM FLIGHT LEVEL WIND NEAR CENTER
G	157 DEG 35 NM	BEARING and RANGE FROM CENTER OF MAXIMUM FLIGHT LEVEL WIND
H	951 951 MB	MINIMUM SEA LEVEL PRESSURE COMPUTED FROM DROPSONDE OR EXTRAPOLATED FROM FLIGHT LEVEL. IF EXTRAPOLATED, CLARIFY IN REMARKS.
I	11 C / 3061 M	MAXIMUM FLIGHT LEVEL TEMP / PRESSURE ALTITUDE OUTSIDE EYE
J	17 C / 3060 M	MAXIMUM FLIGHT LEVEL TEMP / PRESSURE ALTITUDE INSIDE EYE
K	11 C / NA C	DEWPOINT TEMP / SEA SURFACE TEMP INSIDE EYE
L	OPEN SE	EYE CHARACTER: Closed wall, poorly defined, open SW, etc.
M	E 29 45 35	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 / 7	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 108 KT NW QUAD 2021 Z

SLP FROM DROPSONDE

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

#4

DATE	SCHEDULED RX TIME	AIRCRAFT NUMBER	FLIGHT DIRECTOR
9/25/04	—	N43RF	Shepherd

WX MISSION IDENTIFIER: NOAA3 2211A JEANNE

OB NUMBER: 20

VORTEX DATA MESSAGE

A	26 / 0028 Z	DATE and TIME of FIX
B	27 DEG 07 MIN (N) S	LATITUDE of FIX
	79 DEG 30 MIN (W) E	LONGITUDE of FIX
C	700 MB 2665 M	MINIMUM HEIGHT of 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	35 DEG 108 KT	MAXIMUM FLIGHT LEVEL WIND NEAR CENTER
G	308 DEG 33 NM	BEARING and RANGE FROM CENTER OF MAXIMUM FLIGHT LEVEL WIND
H	951 951 MB	MINIMUM SEA LEVEL PRESSURE COMPUTED FROM DROPSONDE OR EXTRAPOLATED FROM FLIGHT LEVEL. IF EXTRAPOLATED, CLARIFY IN REMARKS.
I	11 C / 3055 M	MAXIMUM FLIGHT LEVEL TEMP / PRESSURE ALTITUDE OUTSIDE EYE
J	17 C / 3051 M	MAXIMUM FLIGHT LEVEL TEMP / PRESSURE ALTITUDE INSIDE EYE
K	11 C / NA C	DEWPOINT TEMP / SEA SURFACE TEMP INSIDE EYE
L	CLOSED WALL	EYE CHARACTER: Closed wall, poorly defined, open SW, etc.
M	C 50	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 / 7	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	/ / NM	NAVIGATION FIX ACCURACY / METEOROLOGICAL ACCURACY
P	REMARKS	

MAX FL WIND 108 KT NW QUAD 0020 Z

SLP. FROM DROPSONDE

3rd Sebastion 27.81 N 80.50 W

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

#5

DATE	SCHEDULED RX TIME	AIRCRAFT NUMBER	FLIGHT DIRECTOR
9/25/04	03Z	N43RF	Shepherd

WX MISSION IDENTIFIER: NOAA3 2211A JEANNE

OB NUMBER: 37

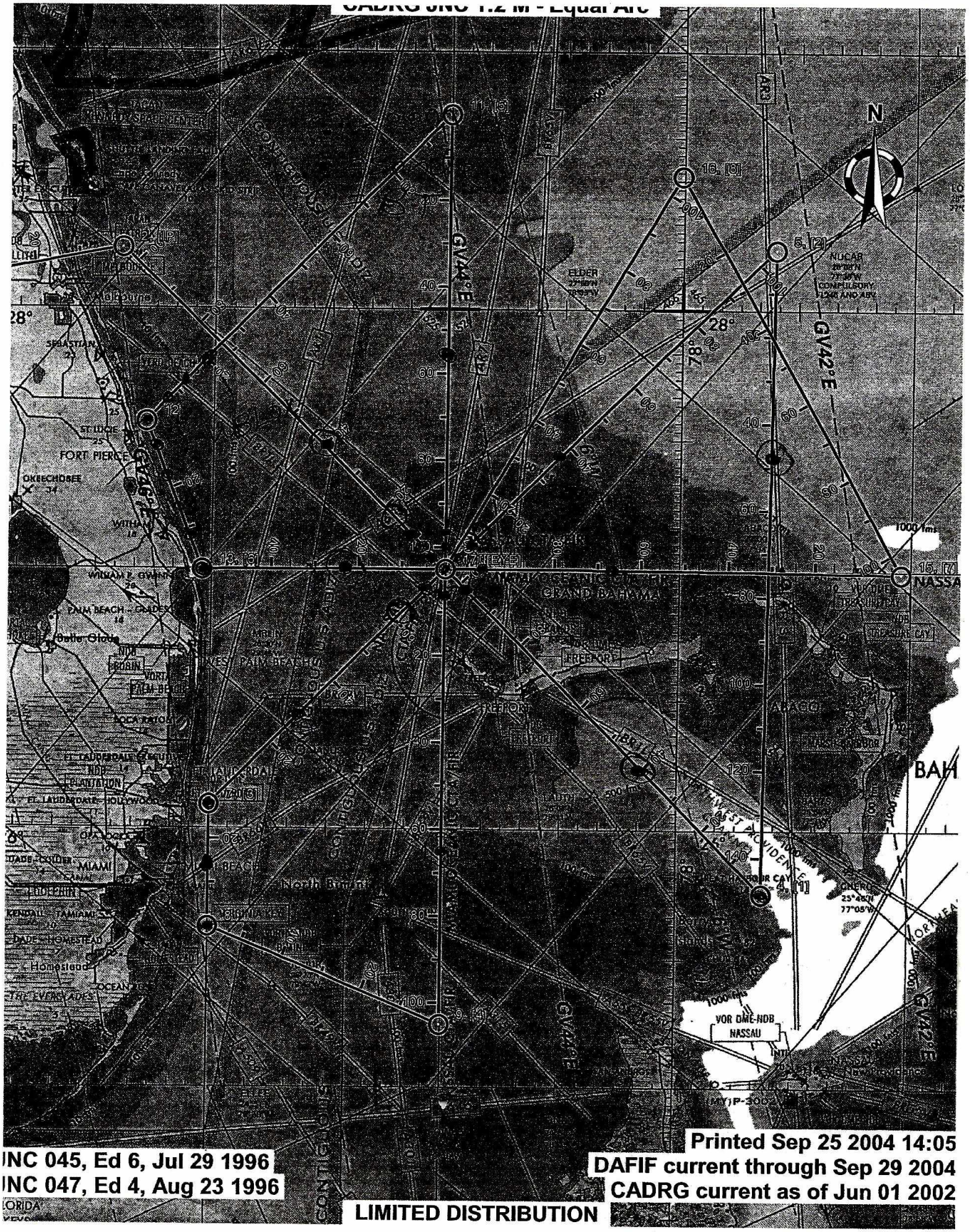
VORTEX DATA MESSAGE

A	26 10216 Z	DATE and TIME of FIX
B	27 DEG 09 MIN N S	LATITUDE of FIX
	79 DEG 50 MIN W E	LONGITUDE of FIX
C	700 MB 2680 M	MINIMUM HEIGHT of 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	114 DEG 102 KT	MAXIMUM FLIGHT LEVEL WIND NEAR CENTER
G	030 DEG 45 NM	BEARING and RANGE FROM CENTER OF MAXIMUM FLIGHT LEVEL WIND
H	~~955~~ 953 MB	MINIMUM SEA LEVEL PRESSURE COMPUTED FROM DROPSONDE OR EXTRAPOLATED FROM FLIGHT LEVEL. IF EXTRAPOLATED, CLARIFY IN REMARKS.
I	15 C 13057 M	MAXIMUM FLIGHT LEVEL TEMP / PRESSURE ALTITUDE OUTSIDE EYE
J	16 C 13057 M	MAXIMUM FLIGHT LEVEL TEMP / PRESSURE ALTITUDE INSIDE EYE
K	11 C / NA C	DEWPOINT TEMP / SEA SURFACE TEMP INSIDE EYE
L	CLOSED WALL	EYE CHARACTER: Closed wall, poorly defined, open SW, etc.
M	C60	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	12345/7	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 108 KT NW QUAD 0020 Z

SLP. FROM DROPSONDE

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



Printed Sep 25 2004 14:05
DAFIF current through Sep 29 2004
CADRG current as of Jun 01 2002

INC 045, Ed 6, Jul 29 1996
INC 047, Ed 4, Aug 23 1996

LIMITED DISTRIBUTION

MISSION LOG			PAGE ___ OF ___																			
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
1956	JEANNE 92	26-51 078-36																			
2032	JEANNE 1	26-55.175 078-43.061																			
2056	JEANNE 2	26-59.985 078-56.907																			
2314	JEANNE 3	27-01.570 079-15.143																			
0028	JEANNE 4	27-06.583 079-29.989																			
0216	JEANNE 5	27-08.978 079-50.124																			
							20.9														
							16.4 14.2														
							18.1 69.6														

37.3

FIX TYPES
(G) - GPS (I) - INS (R) - RADIO (V) - VISUAL (C) - CELESTIAL (D) - DR

1 27 39
80 24

28 38
80 43

26 16 6+20

NOAA FORM 56-49
(2-95)

MISSION PREFLIGHT LOG

DESTINATION	MISSION	NAVIGATOR	AIRCRAFT COMMANDER	FLIGHT DIRECTOR	SCHEDULED / ACTUAL TAKEOFF Z	DATE OF TAKEOFF
KMCF - KNEW	JEANNE #3 - NHC	ENS GALLAGHER	LT SILAH	SHEPPARD	1930 z / 1925 z	25 SEP 04

19 26
19 12
270/

WP	LAT / LON	RTE	MH	VAR +E==>	TH	DR +R==>	TRK	GS	WD	WS	ALT	TAS	LEG / TOT DIST	LEG / TOT TIME	PROP ETA	ETA	ATA	REMARKS
KMCF	27-51.0 082-31.3												-----	-----	1900	1925		
LAL	27-59.2 082-00.8	D	077	4W	073	—	073	250	L	U	10000	250	28 28	+07 +7	1937	1932		
MLB	28-06.3 080-38.1	V441	089	5W	084	—	084						74 102	+18 +25	1955	1950		
IP	28-14 080-24	D	069	6W	058	—	058						15 117	+01 +29	1959	1954	2003	
EYE	27-00 079-00		141	6W	135	—	135	240		FAST		240	105 222	+26 +55	2025	2020	2032	
DELAY													1240 1462	6+00 6+55	0225	0220		
JAWS	30-26.8 080-47.3		342	6W	336	—	336						227 1689	+54 7+49	0319	0314		
CCG	30-20.3 081-30.6		266	6W	260	—	260	280	L	U	FL280	280	38 1727	+08 7+57	0327	0322		
TAY	30-30.3 082-33.2		286	5W	281	—	281						55 1782	+12 8+09	0339	0334		
SEW	30-33.4 080-22.4	D	277	5W	272	—	272						94 1876	+20 8+29	0359	0354		
OHAR	30-47.6 085-08.2		293	3W	290	—	290						142 1918	+09 8+38	0408	0403		
DEFU	30-48.9 086-07.9		275	3W	272	—	272						51 1969	+11 8+49	0419	0414		
CEW	30-49.6 086-40.8		274	2W	272	—	272						28 1997	+05 8+53	0424	0419		
SJI	30-43.6 088-21.6		288	2W	286	—	286						87 2084	+18 9+11	0442	0437		
HRW	29-51.0 090-00.2	D37	239	—	239	—	239						199 2164	+21 9+32	0503	0458		
KNEW	30-02.6 090-01.7	D	353	—	353	—	353						129 2293	+02 9+34	0505	0500		
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INS PERFORMANCE

	INS 1	INS 2
BEGIN ALIGN TIME	1713	1713
ALIGN STATUS (0-5)	0	0
END NAV TIME	26 0445	26 0445
START NAV TIME	1905	1905
DELTA T	9+40	9+40

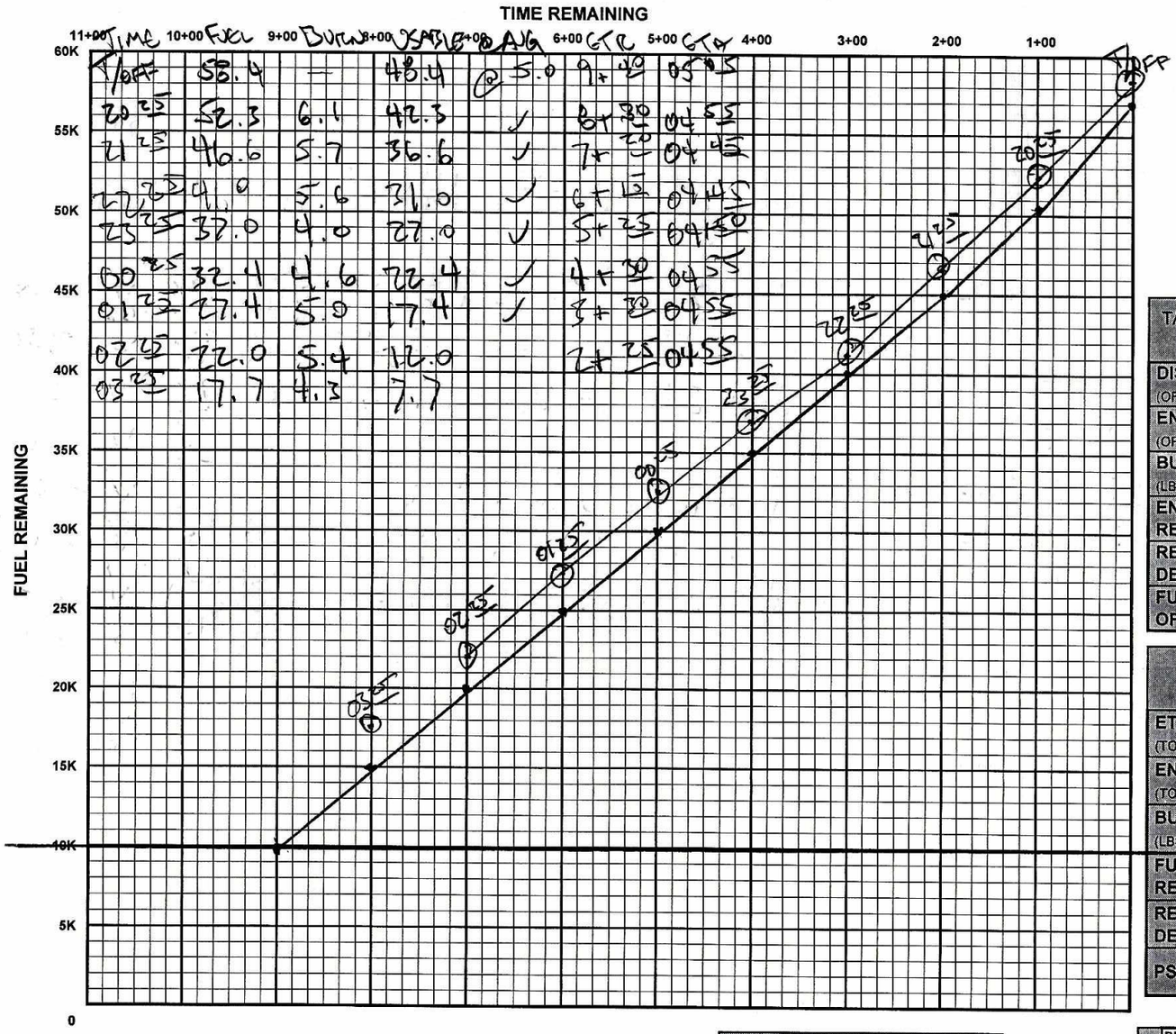
TERMINAL ERRORS

	INS 1	INS 2
DELTA LAT	+3.3	+5.5
DELTA LON	-3.5	-2.5
RGS	2	1
RADIAL ERROR	4	6

REMARKS

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
AIRCRAFT OPERATIONS CENTER

RANGE CONTROL GRAPH



ETP = .5(TOTAL DISTANCE x OUTBOUND WIND FACTOR)

ENROUTE FUEL	
ENROUTE TIME	9+00
ENROUTE FUEL (6K, 5K 4.5K RULE)	47.0
RESERVE AT DESTINATION	10.0
REQUIRED RAMP	57.0
ACTUAL RAMP FUEL	58.4

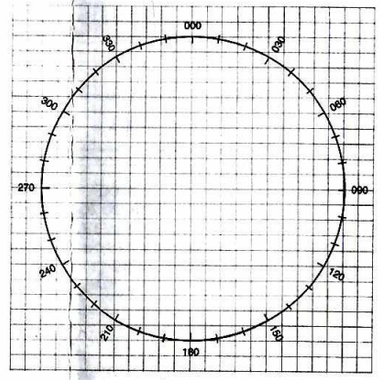
TACTICAL (OFFSTA TO DESTINATION)	4 ENG	3 ENG
DISTANCE (OFFSTA TO DEST)		
ENROUTE TIME (OFFSTA TO DEST)		
BURN RATE (LBS/HR)	4500	5500
ENROUTE FUEL REQUIRED		
RESERVE AT DESTINATION		
FUEL AT OFFSTA		

POINT OF SAFE RETURN	4 ENG	3 ENG
ETP DISTANCE (TO DEPARTURE)		
ENROUTE TIME (TO DEPARTURE)		
BURN RATE (LBS/HR)	4500	5500
FUEL REQUIRED		
RESERVE AT DEPARTURE		
PSR FUEL		

CEX - TRUE BEARING METHOD	INS1	INS2	WET
COMPASS TYPE			
MCH (READING)			
- MTH (SEXTANT)			
CE			
- VAR			
DEV			

CEX - ERB METHOD	INS1	INS2	WET
COMPASS TYPE			
MERB (DIAL 000)			
+ ZN			
= MTH			
MCH (READING)			
CE			
- VAR			
= DEV			

CEX SIGHT	
GMT	
GHA	
CORR	
GHA	
LONG +W -E	
EXACT LHA	
LAT	
BODY	
DEC	
HC / D	
CORR	
HC	
Z	
ZN	



WIND FACTOR		
WINDSPEED	HEADWIND	TAILWIND
10	1.03	.97
20	1.06	.94
30	1.10	.92
40	1.14	.89
50	1.18	.87
60	1.22	.85

"F" FACTOR				
PRESS ALT	200	250	300	350
10,000	1.0	1.0	.99	.99
20,000	.99	.98	.97	.97
30,000	.97	.96	.95	.94
40,000	.96	.94	.92	.90

TRUE AIRSPEED CROSS-CHECK							
TIME	IAS	PRESS ALT	"F" FACTOR	EAS	OAT	TAS	ITAS

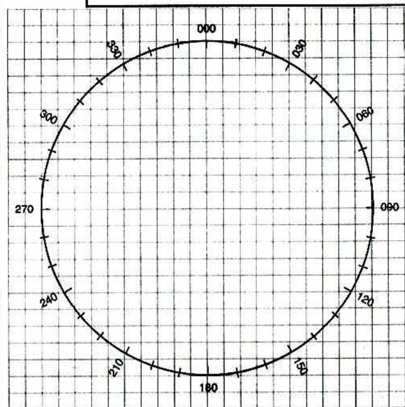
115/140

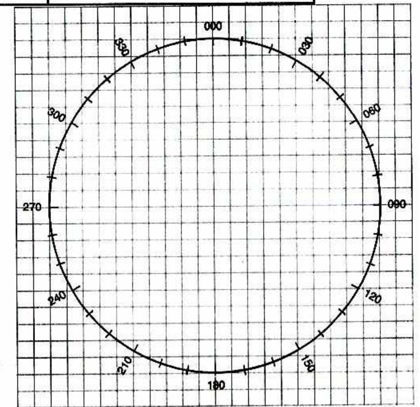
MISSION LOG

PAGE ___ OF ___

CLEARANCES

FREQ	ALT	HDG	OTHER
	1600	090	ex 1600 @ TO SQK 3771
			260253
			040/9
			10 SM
			CLR
			27/19
			A 2998
			AO2 SLP151
			T02670194 51006





POSITION REPORT

1. POSITION
2. TIME
3. ALTITUDE
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 ______, NOAA ______, NOAA ______

- 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 ______ 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
19PE / 1912	ENG TAXI																				
1912 / 1925	BLK T/OFF																				
1930	XJ	27-52.6 081-09.5	27-52.5 081-09.4	+.1 +.1	27-52.5 081-09.6	+.1 -.1	043	6W	037	3L	034	214	053	47	10000	254	IP	30	+08	1938	
2030	△	25-52.9 077-15.1	25-56.4 077-15.5	+1.5 -.4	25-57.5 077-15.5	+.4 -.9	357	6W	351	3R	354	315	188	60	10000	251	|	130	+25	2055	
2130	△	27-30.8 078-29.4	27-29.3 078-29.8	+1.5 -.4	27-30.4 078-29.5	+.4 -.1	218	6W	212	13R	225	255	123	75	10000	247	GYE	21	+05	2135	
2230	△	25-03.8 078-48.9	25-01.0 078-50.2	+2.8 -1.3	25-02.4 078-50.0	+1.4 -1.1	352	6W	346	9R	355	253	257	35	10000	240	GYE	129	+32	2315	
2330	△	27-37.5 080-13.3	27-34.1 080-14.5	+3.4 -1.2	27-35.2 080-14.1	+2.3 +.8	114	6W	108	21R	129	244	035	99	10000	249	GYE	56	+14	2343	
0030	△	27-05.0 078-28.6	27-01.9 078-30.3	+3.1 -1.7	27-02.7 078-29.5	+2.3 -.9	116	6W	110	20L	090	242	180	80	10000	252	|	68	+16	0046	
0130	△	28-49.2 078-26.1	28-45.4 078-28.0	+3.8 -1.9	28-45.7 078-27.4	+3.5 -1.3	213	6W	207	13R	220	256	112	57	10000	237	GYE	120	+29	0159	
0230	△	28-24.2 080-25.3	28-20.9 080-28.3	+3.3 -3.0	28-20.2 080-27.2	+4.0 -1.9	003	6W	357	17L	340	240	070	75	10000	246	JAWS	122	+30	0300	
0330	△	29-58.3 088-20.1	29-54.9 088-24.0	+3.4 -3.9	29-53.7 088-22.5	+4.6 -2.4	277	—	277	1L	276	333	093	20	FL200	3000	KNEW	251	+45	0415	
0428	LAND KNEW	30-02.2 090-01.6	29-58.9 090-05.1	+3.3 -3.5	29-56.7 090-04.1	+5.5 -2.5															FLT 9+03 ⇒ 9.1
0435	BLK																				BLK ⇒ 9.4

26
153.4

19 25/30
3
1