



NOAA P-3 N42RF
Ocean Winds 2004 TS Jeanne Flight #1
KMCF - KMCF



Flight ID: H040919

Sensor or system

Number or Name

Inertial

1

Accelerometer Data

1

Temperature Probe

1

Dew Point Probe

1

Altitude (for vertical wind)

Radar Altitude

Radar Altitude

RA-159

Static and Dynamic Pressure

Rosemount Fuselage

Time Source

Micro 99

Constants File

CO2042.CON

Local meteorological data:

Observation taken at 1553Z, by KMCF. Wind from ENE (070 deg) at 08 knots. Visibility 7 miles. Temperature 29 degrees C, Dewpoint 22 deg C. Surface Pressure 29.95 in (1014.5 mb).

Notes:

Time gap .

RA-159 was inoperative before take off, after landing.

There were several instances when the dew point temperature exceeded the ambient temperature resulting in a RH% above 100%. These times were during heavy precipitation events and were likely due to a wet-bulb effect on the total temperature sensor, and/or an artificial warming of the dew point sensor as it tried to burn off excess moisture. These periods are typically reflected in the J/W liquid water data. TD2 with appropriate offset was substituted for TD#1 1825Z-1853Z. No corrections were made during these events unless noted above.

All other instruments worked optimally during the flight.

The aircraft INE positions were renavigated with respect to GPS.

Due to AOC equipment/printer failure, the last step of our Quality Control process (visual QC) was not able to be performed. While other measures were taken to ensure there were no problems with the data, questions concerning questionable data should be brought to the attention of the Flight Director ASAP.

Flight Director:
Phone #:

Contact Jack Parrish
(813) 828-3310 ext. 3077

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

Flt ID: <u>040919H</u>	From: <u>KMCF</u>	To: <u>KMCF</u>
Flt. No: <u>04 - 046</u>	Blk In: <u>0200</u> z	Time On: <u>0150</u> z
ETD: <u>1600</u> z	Blk Out: <u>1601</u> z	Time Off: <u>1613</u> z
ETE: <u>9</u> +	Blk Time: <u>10 + 01 (10.0)</u> Hrs	Flt Time: <u>9 + 37 (9.6)</u> Hrs
Sponsoring Org: <u>NHC</u>	Program: <u>Recco</u>	Purpose: <u>T.S. Jeanne</u>

AOC Flight Crew

Aircraft Commander: <u>Kennedy</u>	Data System: <u>Reek</u>
Co-Pilot: <u>Nelson</u>	AVAPS: <u>Royers</u>
Navigator: <u>Siegel</u> , <u>Brakob</u>	System Eng: <u>McMullan</u>
Flight Eng: <u>East</u> , <u>Wahl</u>	AA <u>Wahl</u>
Flight Director: <u>Parish</u>	AA:
Avionics: <u>[Signature]</u>	Crew Chief:

Participating Scientists / Visitors

Name (Last, First)	Activity on Aircraft	Affiliation
<u>Chang</u>		
<u>Kerr</u>		
<u>Conteras, Robb</u>		
<u>Simon, D. David</u>		

Remarks (Storm Name, Mission ID, Recco Times, Fix Times) Storm Name: <u>Jeanne</u> Mission ID: <u>1011A</u> Penetration number and time <u>Land</u> <u>47/27</u> <u>25-6/26-5</u> <u>1015</u>	Recco Times <u>29.5 21.7</u> <u>1014.5 -</u> <u>70/9.9</u> <u>30 1013.7H</u> <u>800'</u> <u>3/1 1013.5</u> <u>fm 1000'</u>	Fix # Fix Time <u>182, 00Z</u> <u>1</u> <u>1835Z</u> <u>2</u> <u>2015Z</u> <u>3</u> <u>2153Z</u> <u>4</u> <u>2324Z</u>
	<u>Tropical Storm</u> <u>Jeanne</u>	
	(See reverse for additional remarks)	

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Flight ID: **040919H** Time Off: **1613** Z Time On: **0150** Z

	A/C - Takeoff	Wx Station - Takeoff	A/C - Land	Wx Station - Land
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Pressure	1014.5 mb	1014 mb	1015 mb	29.94 (1014.5) mb
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ATIS	Time	Observation
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Takeoff	1653 Z	070/8 7mi 29/28 29.95 (1014)
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Land	Z	1014.5
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Number	Data Disposition / Date / Quality
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Flight Level Tapes

Radar Tapes

Cloud Physics Tapes / CDs

Video Tapes

Dropsondes Good: Bad:

AXBT

AXCP

AXCTD

Remarks:

Noce camera down
 TA Radar died after T.O.
 Switched to TD2 just before Fix #1. Stayed with it
 rest of fixes.
 TT2 dead on arrival.

05 20
73 58

24 06
72 36
Page 1 of

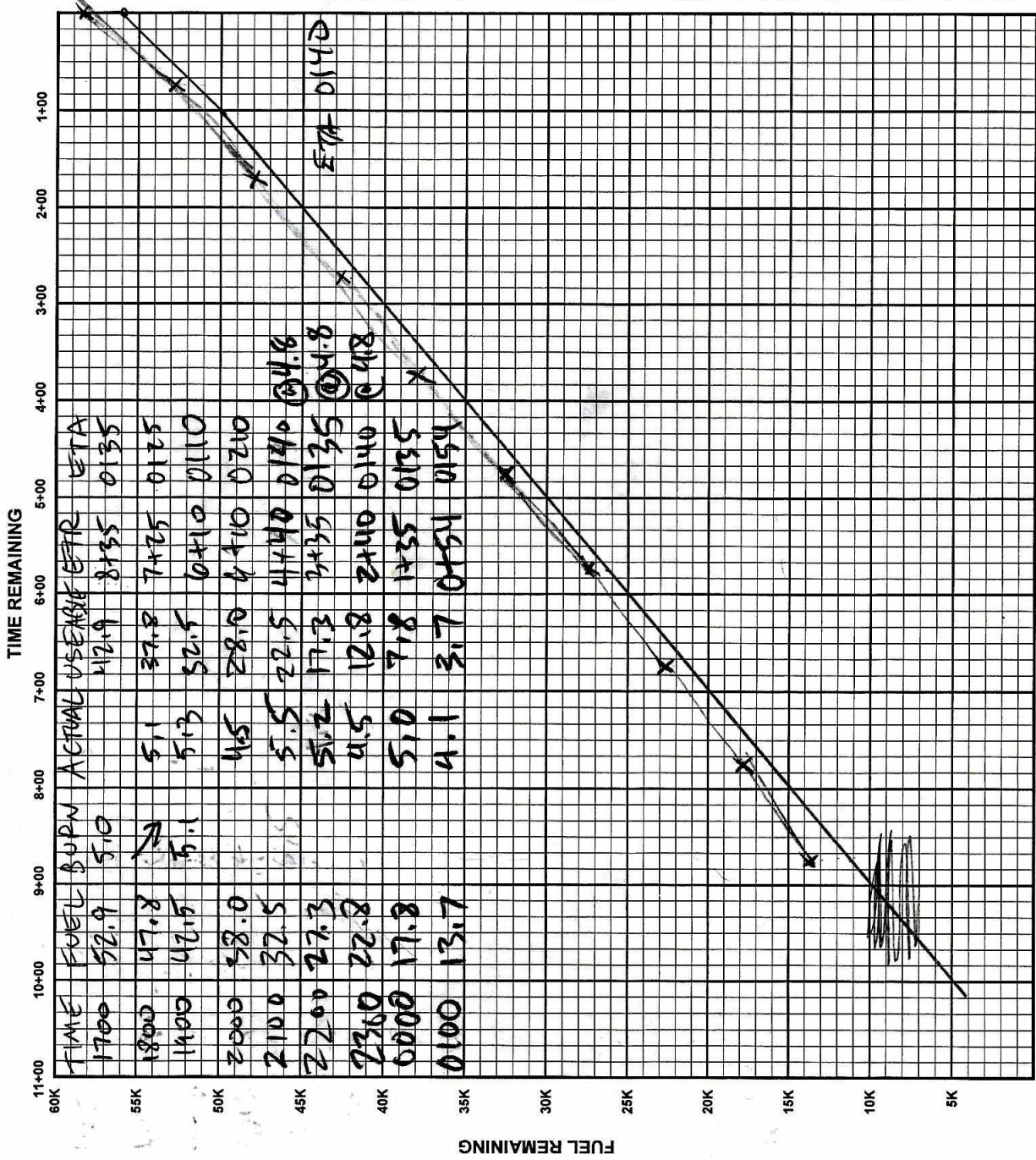
Flight ID: 040919H T.S. Jeanne Pecco

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Form 413-50

Time	Lat	Long	Trk	Hdg	Wind Dir	Wind Spd	T _a	T _d	Press. Alt	Geo. Alt	Sfc Press.	Press. Sfc	Dyn. Press	Remarks
160745	27 50.7	82 30.4	270	270			30.4	22.5	-4	-2	1013.5	1013.7	0.2	AFL A.O.
1627	27 32	81 42.5	110	108	7	10.4	10.7	-20.6	387	3354	1008.3	678.3	59.7	↑
1644	27 08.8	80 27.3	107	107	21	5.9	0.8	-25.4	4580	4816	1008.4	571.2	75.4	-
1701	26 43	79 06	109	109	306	8.3	-0.8	-77.1	4602	4847	1012.3	570	75.9	-
1745	25 37	75 26	102	101	3	13.2	-0.5	-13.5	4731	4972	1008.3	560	84.6	-
181245	24 56	73 29	132	127	30	30.5	22.3	22.1	476	445	1006.6	956	64.6	Dist IP
1835	24 14	72 21					24	23	548		996			⊙
1900	23 18	71 16	135	145	204	38	23.8	21.4	488	450	1006	956	72.4	
190745	22 59	70 56	103	113	195	39	23.8	22.1	486	454	1006.6	956.2	69.0	SE pt.
1932	24 36	70 44	344	346	157	40	23.5	21.5	496	460	1005.8	955.5	69.8	
194545	25 31	71 00	328	330	134	41	22.5	20.7	490	454	1006.5	955.6	67.1	NE pt
195630	25 07	71 29	221	210	130	38	23.1	21.6	495	435	1003.6	955	74.5	
2015	24 22	72 20					24	21	576		996			⊙
203230	23 36	73 08	225	231	310	26.5	22.7	21.9	505	456	1004.7	954.1	70.1	SW of center
210830	23 03	71 57	89	93	255	35	23.5	22.1	490	455	1006.3	955.7	68.8	
212915	23 25	71 13	318	315	315	216	34	24.1	21.3	480	441	1006.1	957	
2153	24 30	72 12					24	22	585		995			⊙
220930	25 09.6	72 52.3	315	324	22	33	22.5	22.4	515	451	1003.2	952.8		
223030	25 37	72 42	87	84	62	34	22.5	20.1	502	448	1004.1	954.3		
2245	25 39.5	71 52	91	92	94	32	23.1	21.6	501	442	1003.3	954.4	71.6	N of center
230545	25 26	71 10	231	221	143	40.8	23.4	22.0	491	432	1003.4	955.6	70.9	
2309														
2324	24 43	72 04					24	23	586		994			⊙
0022	26 02	76 04	285	287	327	7.4	-9.4	-22.6	6100	6425	1007.2	465.3	72.1	-20K PA
0047	26 35.5	78 10.1	287	287	251	6.8	-10.6	-25.5	6101	6423	1010.5	465.4	73.1	
013630	27 36	72 25	307	307	273	3.4	14.7	5.8	1680	1733	1012.0	831	51	↓
0200	27 31	72 26					25.5	24.1	-5			1013.8	0	Block 19

RANGE CONTROL GRAPH



ENROUTE FUEL	
ENROUTE TIME	9:40
ENROUTE FUEL (6% 5K/45K RULE)	4640
RESERVE AT DESTINATION	10.0
REQUIRED RAMP	56.0
ACTUAL RAMP FUEL	58.7

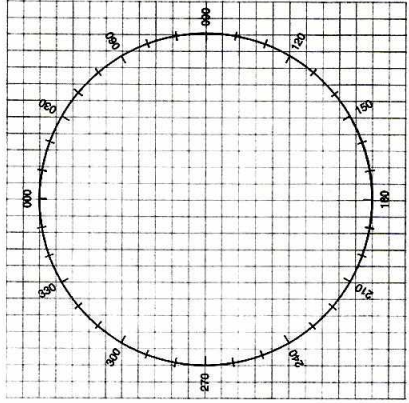
TACTICAL (OFFSTA TO DESTINATION)	
DISTANCE (OFFSTA TO DEST)	
ENROUTE TIME (OFFSTA TO DEST)	
BURN RATE (LBS/HR)	4500
ENROUTE FUEL REQUIRED	
RESERVE AT DESTINATION	
FUEL AT OFFSTA	5500

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

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

GHT	
GHA	
CORR	
GHA	
LONG AW	
EXACT LHA	
LAT	
BODY	
DEC	
HC/D	
CORR	
HC	
Z	
ZN	

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



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

WINDSPEED	WIND FACTOR	
	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

TRUE AIRSPEED CROSS-CHECK					
TIME	IAS	PRESS ALT	"F" FACTOR	OAT	ITAS
1612	220	150		710	281
					253

DISTANCE REMAINING

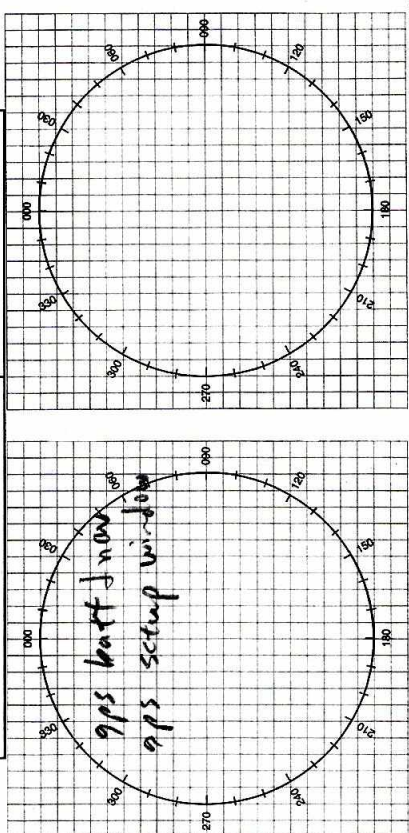
ETP = .5(TOTAL DISTANCE x OUTBOUND WIND FACTOR)

1220160

1550B

CLEARANCES		
FREQ	ALT	HDG
		OTHER
		0022 SQ
		R080 1600 15FT10
		b/v 11330

MISSION LOG PAGE ___ OF ___

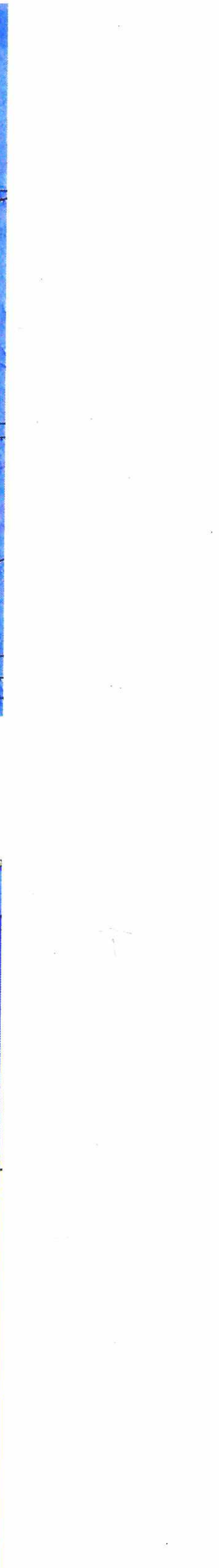
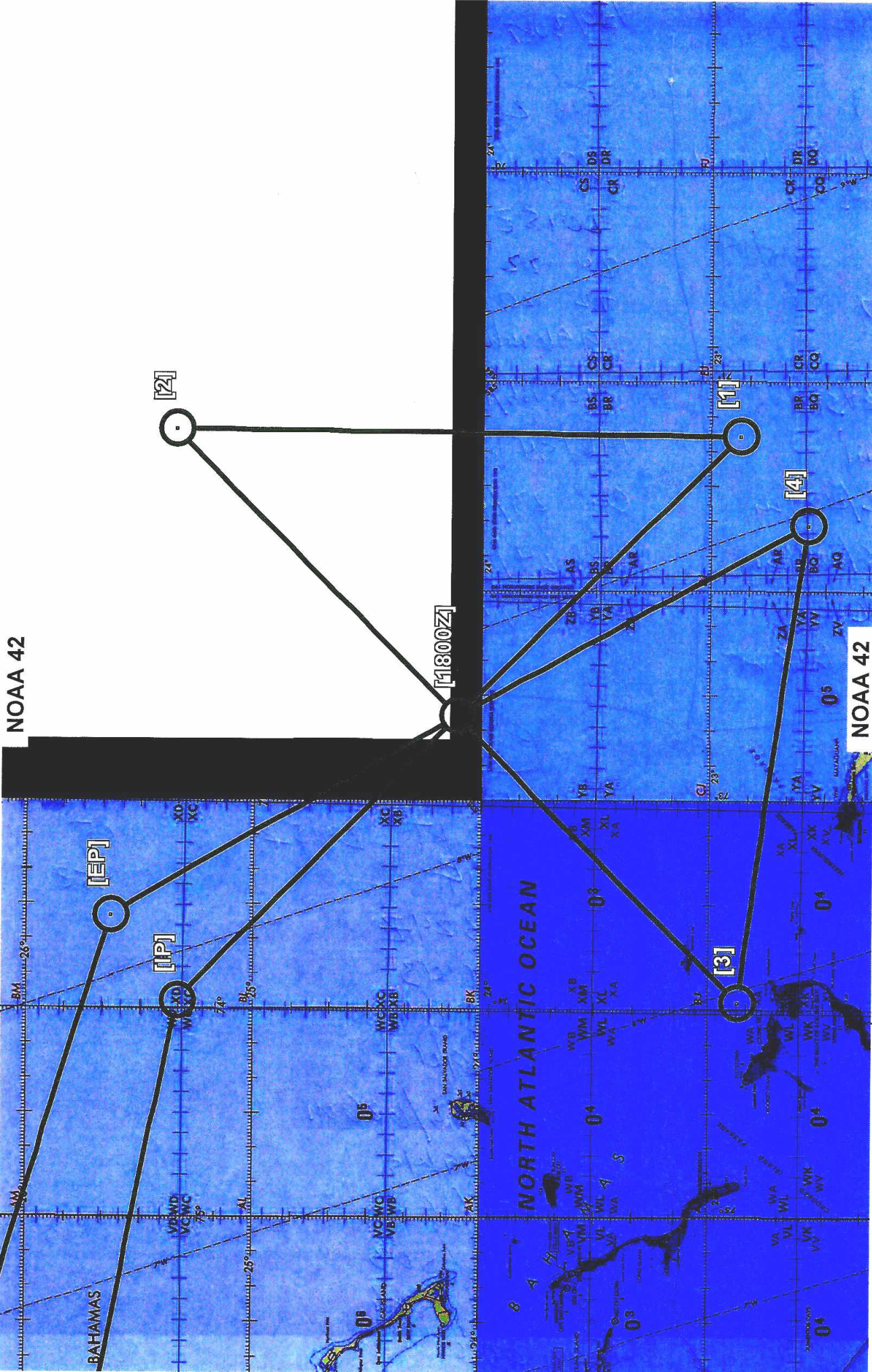


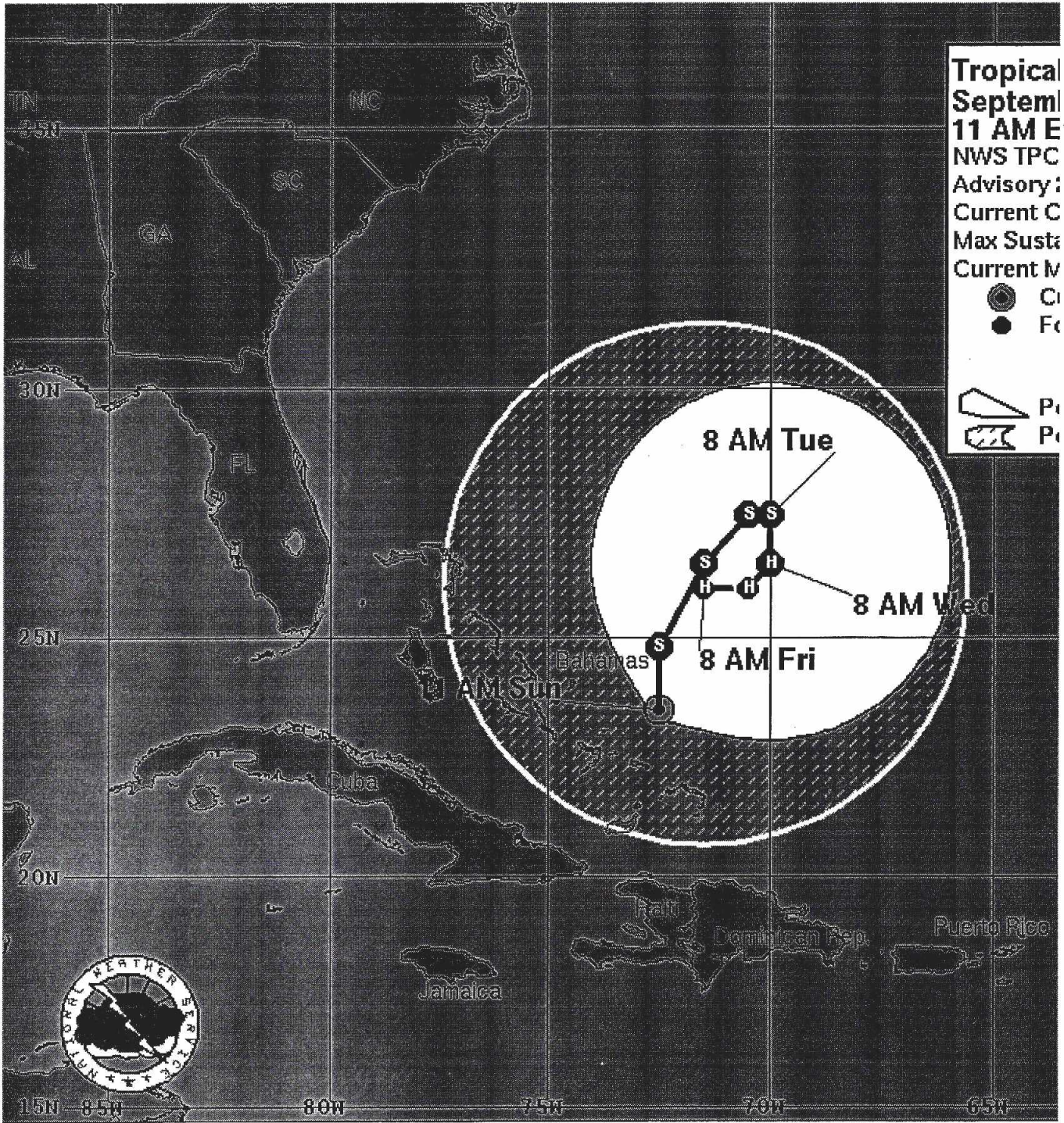
POSITION REPORT	
1. POSITION	
2. TIME	
3. ALTITUDE	
4. NEXT POSITION	
5. ETA	
6. NEXT POSITION	

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:
 UHFVOICE VHFVOICE MFVOICE 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	VAR +E=>	TH	DR +R=>	TRK	GS	WD	WS	ALT	TAS	NEXT PT	DIST	TIME	ETA	REMARKS
1550	START																			
1601	TAXI																			
1601	BLDG																			
1613	T/O																			
1610	XV	N27 52.0 W82 21.5	27 51.8 82 21.5	+1.2 +1.2	27 51.8 82 21.5	+1.2 +1.2	2W 3W	150 111	1L 0	130 111	202 277	097 296	18 27	340 150	219 351	ZFP EXTA				
1650	△	26 59.9 74 58.8	26 59.8 74 58.8	+1.1 +1.1	26 59.8 74 58.8	+1.1 +1.1														
1750	△	25 31.8 75 00.3	25 31.4 74 59.9	+1.4 +1.4	25 32.3 74 59.9	+1.5 +1.4														
1850	△	23 41.2 71 41.2	23 40.7 71 41.2	+1.8 +1.4	23 43.6 71 41.2	+2.1 +1.6														
1950	△	25 24.3 71 11.8	25 23.1 71 11.0	+1.2 +1.8	25 28.1 71 10.9	+3.8 +1.9														
2050	△	23 01.8 72 57.4	23 00.8 72 56.8	+1.0 +1.6	23 07.3 72 55.5	+5.5 +1.9														
2156	△	24 43.6 72 22.7	24 41.5 72 21.0	+2.1 +1.7	24 50.4 72 20.4	+6.8 +2.3														
2250	△	25 29.3 71 35.1	25 35.9 71 34.4	+3.4 +1.7	25 47.1 71 31.8	+8.1 +3.3														
2350	△	25 21.6 73 35.1	25 17.6 73 33.0	+4.0 +1.7	25 31.7 73 30.5	+10.1 +4.6														
0050	△	26 29.6 78 25.6	26 24.2 78 23.2	+5.4 +2.4	26 49.6 78 20.3	+10.0 +5.3														
0150	LAND	KMCF																		
			27 45.4 82 29.7	+6.1 +1.2	28 01.3 82 21.8	+10.8 +5.9														

1994 ✓
 15207 ✓
 8816 ✓
 11370 ✓
 8846 ✓
 2816 ✓
 11350 ✓





1011A JEANNE