



NOAA P-3 N43RF

Tropical Storm Ophelia



Flight ID: 050908I

Sensor or system

INE

Accelerometer

Temperature Probe

Dew Point Probe

Altitude (for vertical wind)

Static Pressure

Dynamic Pressure

Time Source

Constants File

Number or Name

1

1

1

2 (Edgetech)

Radar Altimeter 159

Rosemount Fuselage

Rosemount Fuselage 1281

Micro 99

CO3051.CON

Notes:

There were no time data/gaps during this flight.

Data from radar altimeter 232 was substituted in place of radar altimeter 159 from 073101Z-073540Z, 131631Z-131900Z.

The difference in values between the dynamic attack pressure from the radome and the fuselage is greater than 20 mb. No corrections were made to the data.

There were numerous times during the flight where the dewpoint temperature exceeded ambient temperature resulting in RH>100%. This was likely due to rain, a wet-bulb effect on the total temperature sensor, and/or an artificial warming of the dewpoint sensor as it tried to burn off excess moisture. Edits to dewpoint sensor number two were made between 100001Z-100130Z to bring the relative humidity values below 120%.

The King Liquid Water sensor was not operating during this flight.

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	1010.8 mb	1007.3 mb
Corrected Tower Pressure	1012.4 mb	1011.0 mb

Flight Director: Martin Mayeaux (813) 828-3310 ext. 3086

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

Flt ID: 050908I	From: Kmcf	To: Kmcf
Flt. No: 05-053	Blk In: 1324 z	Time On: 1316 z
ETD: 7:30 z	Blk Out: 0724 z	Time Off: 0734 z
ETE: 6+00	Blk Time: 6+00 (6.0) Hrs	Flt Time: 5+42 (5.7) Hrs
Sponsoring Org: NHC	Program: Reconnaissance	Purpose: Ophelia (T.S.)

AOC Flight Crew

Aircraft Commander: Tebrast	Data System: Lynch
Co-Pilot: Silah, Choy	AVAPS: Torg
Navigator: Gallagher	System Eng:
Flight Eng: Floyd, Kippel	A A:
Flight Director: Mayeaux, Damiano	A A:
Avionics: Sansoni	Crew Chief:

Participating Scientists / Visitors

Name (Last, First)	Activity on Aircraft	Affiliation
Aberison, S	Sci	HRD
Royce, R	Sci	HRD
Dodge, P	Sci	HRD
Walsh, ED	Sci	HRD

Remarks (Storm Name, Mission ID, Recco Times, Fix Times) **3066**

Storm Name: Ophelia

Mission ID: W0003 0516A Ophelia

Penetration number and time

Recco Times	Fix #	Fix Time
2958	2729	2831
2653	781	07735
7934		

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

Flight ID: 050908I	Time Off: 0734 Z	Time On: 1316 Z
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A/C Takeoff	Wx Station Takeoff	A/C Land	Wx Station Land
Pressure: 1010.8 mb	2991 mb	1007.3 mb	2987 mb

ATIS	Time	Observation
Takeoff	0255Z	36007G-16KT P6sm 26/23 A2991
Land	1159Z	33007KT P6sm 25/23 A2987

	Number	Data Disposition / Date / Quality
Flight Level Tapes		
Radar Tapes		
Cloud Physics Tapes / CDs		
Video Tapes		
Dropsondes	17	Good: 15 Bad: 2
AXBT		
AXCP		
AXCTD		

Remarks:

Plan: 9Z-12Z-15Z Alpha Patterns
 850 mb flight Altitude. Drop in center and during max wind
 In from SW-NE Shortened SW sides. West quad all the way
 to Coast. Parallel Coast on Down wind legs.
 No planes out there.
 After our mission AR comes in Tol 38 Az 18, 2100Z
 Possibly knock off last fix



994 mb SIP
 NW quad 6 KT
 SE quad 54 KT
 20 km eye
 Coordinates 28°48'N
 79°30'W
 Stationary

Drop at Turns, max winds, CTR, 1 8.5

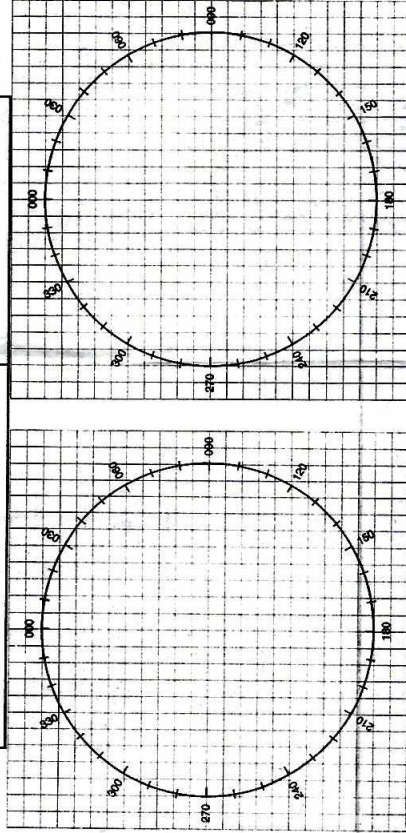


— 25th

TERMINAL ERRORS		
	INS 1	INS 2
DELTA LAT	+5.7	+0.8
DELTA LONG	-1.2	-4
RGS	2	0
RADIAL ERROR	6	1

[illegible]

MISSION LOG PAGE ____ OF ____

[illegible]

ENDURANCE REMAINING																					
WE HAVE																					
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
0700	✓	27-52.7 082-21.6	27-52.7 082-21.4	+2.2	27-52.7 082-21.3	+2.2	081	40	077 2R	079	220	333	13	1900	215	215	10	103	0743	125#2 121	
0700	✓	27-52.7 082-21.6	27-52.7 082-21.4	+2.2	27-52.7 082-21.3	+2.2	081	40	077 2R	079	220	333	13	1900	215	215	10	103	0743	125#2 121	
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0700	✓	27-52.7 082-21.6																			

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
- AT _____ RIS TRUE/INDICA

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

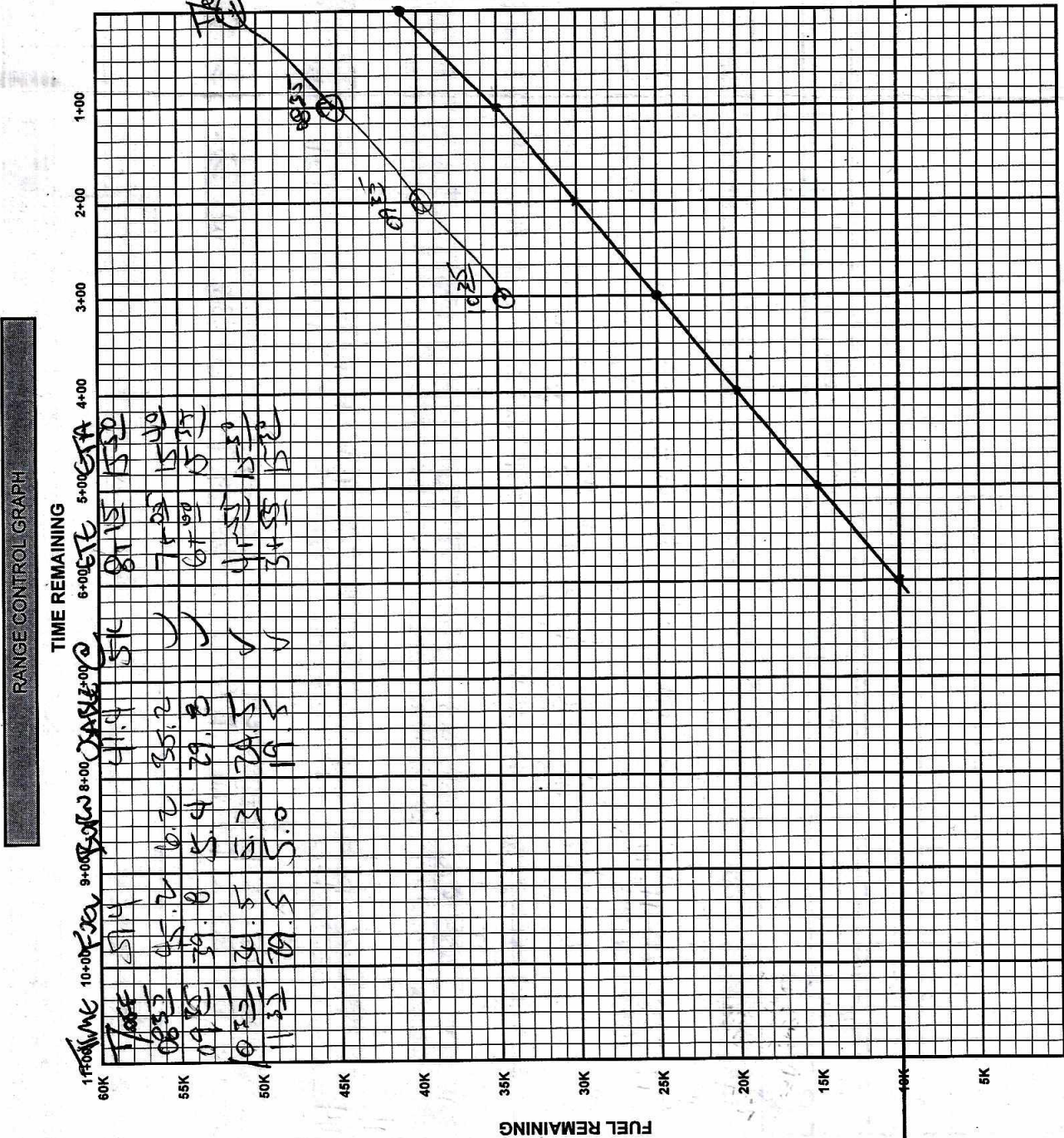
- NATURE OF EMERGENCY

- ASSISTANCE DESIN
- PILOT INTENTIONS

- WE HAVE _____ ENDURANCE REMAINING _____

POSITION REPORT

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

$$\frac{15}{100}$$


ENROUTE FUEL	
ENROUTE TIME	6+00
ENROUTE FUEL (6K-5K/45K RULE)	31.0
RESERVE AT DESTINATION	10.0
REQUIRED RAMP	41.0
ACTUAL RAMP FUEL	

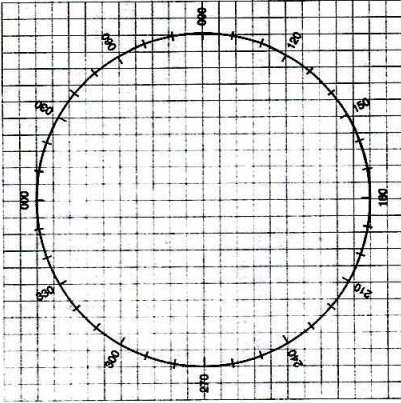
TACTICAL (OFFSTA TO DESTINATION)			
4 ENG		3 ENG	
DISTANCE (OFFSTA TO DEST)			
ENROUTE TIME (OFFSTA TO DEST)			
BURN RATE (LBS/HR)	4500	5500	
ENROUTE FUEL REQUIRED			
RESERVE AT DESTINATION			
FUEL AT OFFSTA			

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				CEX SIGHT			
COMPASS TYPE	INS1	INS2	WET	GMT			
MCH (READING)				GHA			
- MTH (SEXTANT)				CORR.			
CE				GHA			
- VAR				LONG + W E			
DEV				EXACT LHA			
				LAT			
				BODY			
				DEC			
				HC / D			
				CORR			
				HC			
				Z			
				ZN			

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

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



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

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

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

DISTANCE REMAINING

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

NOAA • AOC • SED
N43RF AVAPS DROP LOG

Project : Hurricane '05 / RAINEX

Mission : TLS 0P4301A

Flight ID : 0509081

Take Off : 0735

Landing : _____

Flt Dir : _____

Launcher S/N: _____

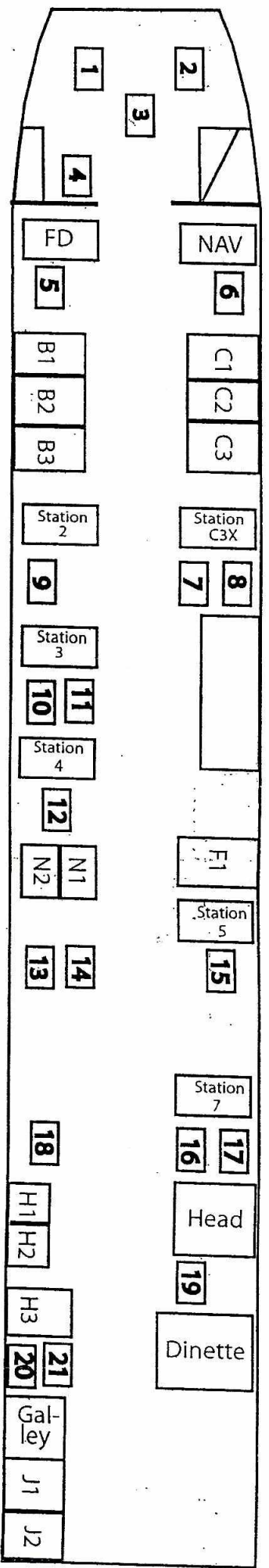
Drop #	Sonde Serial #	Rcvr #	Press Offset	Launch Time	Winds Time	Operator	Comments	Good ?
1	012 225 095	1	-0.3	802	—	DJS	NO WINDS	
2	002 615 579	3	0.0	804	1:04	DJS		✓
3	002 615 565	1	0	814	45			✓
4	002 615 341	2	0.1	818	48			✓
5	002 615 581	3	0.1	822	31			✓
6	002 615 300	1	-0.2	0847	20			✓
7	002 158 072	1	0.2	0921	19			✓
8	002 615 507	1	0.2	0945	15			✓
9	002 615 576	3	0	0948	26			✓
10	003 115 475	1	0.5	0952	32			✓
11	002 525 130	1	-0.1	1016	37			✓
12	002 615 509	1	2.9	1035	25			✓
13	002 525 298	1	0	055	—		NO LAUNCH AT	
14	001 915 170	3	0.5	1057	23			✓
15	002 615 301	2	0	1107	35			✓
16	002 525 270	1	0	1113	46			✓
17	002 615 578	3	0.4	1148	94	RT	Late winds	✓
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NHC-15
AOC - 2

050908I	TIME	LAT	LON	PS	SP	TA	TD	TK
RA	WD	WS	WZ	Comment				
065238	27.50.94	-82.29.58	1011.2	1018.5	25.1	19.4	206.0	
64.0	71.7	1.5	-.0	Test				
073555	27.51.84	-82.29.16	977.4	1009.5	23.5	21.5	84.8	
285.0	11.2	11.6	.1	takeoff				
074146	27.51.90	-82. 6.06	776.2	1004.3	15.2	11.4	107.9	
2247.0	322.6	5.5	.2					
080228	27.55.50	-80.22.20	840.0	1005.5	19.1	16.5	46.2	
1580.0	308.2	13.1	-.6	drop1 no wind				
080407	28. 0.12	-80.16.56	846.9	1005.2	18.7	17.1	46.0	
1503.0	303.8	14.4	-.1	drop2 backup				
081421	28.29.82	-79.43.80	841.3	995.1	20.7	18.2	36.1	
1483.0	300.0	25.2	.5	drop3				
082212	28.55.08	-79.27.12	841.8	991.9	19.8	19.2	43.8	
1446.0	118.1	25.6	-1.5	drop4				
084719	29.58.68	-78.11.04	844.7	1007.9	17.8	17.3	270.2	
1545.0	140.8	13.1	.0	drop5				
092157	29.50.22	-80.59.04	845.0	1007.7	18.8	15.3	133.8	
1544.0	43.2	16.8	-.2	drop6				
092728	29.35.40	-80.41.82	845.0	1006.9	18.2	16.8	137.0	
1535.0	40.3	18.3	-.2	Eye center drop 7 between 3 and 4				
094516	28.49.86	-79.43.38	844.7	990.3	22.0	19.8	119.1	
1411.0	31.7	23.7	.4	drop 8				
094911	28.39.66	-79.33.00	844.9	986.8	21.7	19.6	134.4	
1376.0	238.7	12.8	-.1	center drop 9				
095217	28.31.08	-79.23.04	839.1	995.7	18.8	19.6	134.4	
1503.0	229.6	25.4	-.9	drop10				
101624	27.32.16	-78.10.74	841.5	1007.2	18.4	16.7	25.6	
1576.0	213.8	15.9	.2	drop11				
103509	28.38.28	-77.35.16	841.8	1006.8	19.1	15.5	280.2	
1572.0	188.3	16.8	.5	drop12				
105551	28.41.22	-79. 3.90	842.7	1000.2	18.3	18.1	270.1	
1502.0	182.3	24.2	.1	drop13 bad				
105707	28.41.22	-79. 9.48	842.8	998.4	19.2	18.8	270.1	
1489.0	177.6	23.8	.3	drop14 backup				
110742	28.38.70	-79.34.14	834.9	987.4	22.0	18.1	282.7	
1488.0	108.8	1.8	.4	drop15				
111318	28.38.70	-79.59.10	835.0	996.9	20.2	18.3	268.8	
1564.0	356.3	26.0	.1	drop16				
114808	26.58.74	-79.29.82	846.4	1007.5	19.4	14.3	356.3	
1530.0	262.7	14.0	.0	drop17				

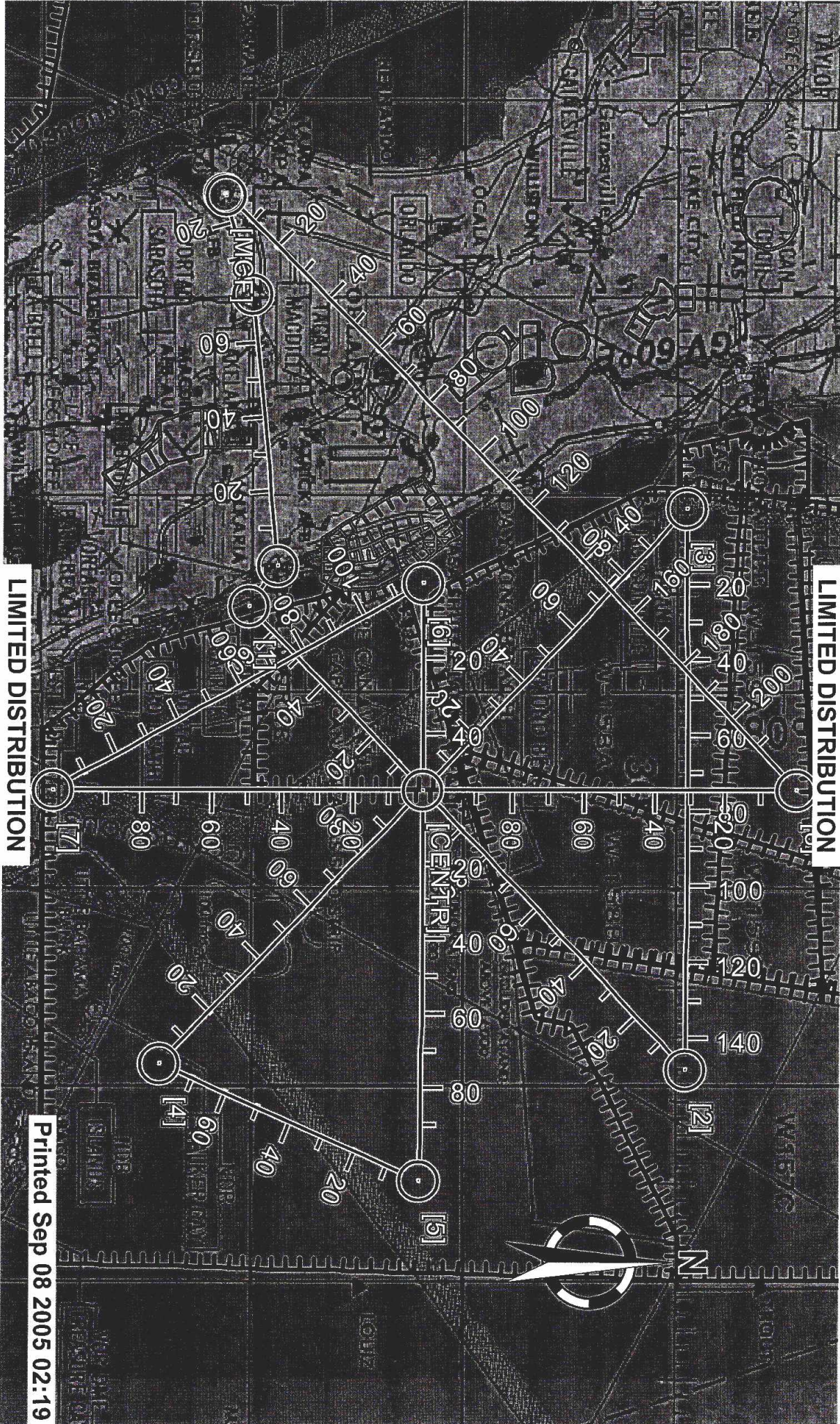
NOAA AIRCRAFT OPERATIONS CENTER

Flight ID 2050906



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3. KLIPPEL FLIGHT ENGINEER
4. ~~ROGERS~~ ROGERS STATION 1
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7. OFF DUTY FE STATION C3X
8. STATION C3X
9. ~~ROGERS~~ MAYHEW STATION 2
10. DODGE STATION 3
11. ABERSON STATION 3
12. LYNCH STATION 4
13. PROJECT SEAT
14. PROJECT SEAT
15. OLNEY STATION 5
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