

# G-IV Flight Summary For Flight #03-016

**Mission ID: 030103n(test)**

## TIMES

<u>BLOCK</u>		<u>FLIGHT</u>
1448Z	←--- Block Out	
	Departure ---→	1456Z
	Arrival -----→	1658Z
1708Z	←----- Block In	

Block Time: 2.3 HRS

Flight Time: 2.0 HRS

Sponsor Org: Calibration  
Program: Winter Storms '03

From/To: KMCF/KMCF  
Purpose: Instrument Test Flight

Flight Directors: Paul Flaherty - (813) 828-3310 x 3094 - paul.flaherty@noaa.gov  
Jack Parrish  
AOC Crew: Finke, Finn, Poston, Brogan, Hill, Smith, Hornbrook  
Visitors: None

## PRESSURE

	<u>Take off</u>	<u>Landing</u>
Aircraft (mb)	1018.1	1017.6
Wx Station	A3005	A3008

Total Number of GPS Dropwindsondes: 4 (1 had no pressures)  
Number of Flight Level Tapes Received: 1  
Back up Data (i.e. CD/Lacie Hard Drive): CD

### Mission Remarks:

This flight was a pre-Winter Storms test flight. The goal was to ensure all sensors were working properly, and to test out communications. ASPEN was also run from R1 and R2 to ensure no problems. Also, drop locations over buoy's were selected to compare RH readings of the buoy's to the dropsondes. Drops 3 + 4 were dropped 2 minutes apart as well to compare RH readings.

### Changes to/from depend table:

None

### Comments about aircraft sensors:

All sensors appear to have functioned properly with only minor spikes and deviations. These spikes and deviations were typically reflected in either the pitch, roll, or sideslip of the aircraft. There was one issue between WS and IWS/IWS\_PITR between 1553 + 1558. It matched perfectly with a 100 degree change in aircraft heading during the same time period.

U.S. Dept. of Commerce / NOAA / Aircraft Operations Center			AOCWF1
Flt ID: 030103n	From: KMCF	To: KMCF	
Flt No: 03-16	Blk In: 1708	ATA: 1658	
ETD: 15Z	Blk Out: 1448	ATD: 1456	
ETE: 2 HRS	Blk Time: 2.3	Flt Time: 2.0	
Sponsor Org: CAL	Program: WINTER STORMS	Purpose: TEST FLT	
AOC Personnel			
AC: FINKE	Sys Eng: HILL		
CP: FINN / POSTON	Data Sys: BROGAN		
Nav:	Radar: SMITH		
FE:	GPS/BT:		
FD: FLAHERTY / PARRISH	Cld Phys:		
Avionics: HORN BROOK			
Participating Scientists / Visitors / AOC			
Name (Last, First)	Activity on Aircraft	Affiliation	
Proposed/Actual Mission Remarks (Recco, Fixes, Storm, PENET, NHOP #)			



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Form 413-50

Time	Lat	Long	Trk	Hdg	Wind Dir	Wind Spd	T <sub>a</sub>	T <sub>d</sub>	Press. Alt	Geo. Alt	Sfc Press.	Press. Sfc	Dyn. Press	Remarks
1451	/	/			293	3.5	14	9			1018.1			ROLLING
1456	2708	0114	80	075	330	5.7	08	7.6	625	724	926		68	Takeoff
1526	2857	0172												Drop 1
1526	2857	0172					No	pressures						Drop 2
1612	2919	0022	78	75	271	31	-53	64	13050	13329	/	160	79	Drop 3+4
1658	/	/	/	/	300	09	12	07	-34	2.6	1076	1076	.4	LAND

Flt ID: 030103n Time Off: 1956 Time On: 1658

A/C (Take Off)

Wx Station (Take Off)

A/C (Land)

Wx Station (Land)

Pressure

1018.1

A 3005

1017.6

A 3008

Number

Data Disposition / Date / Quality

Flt Lvl Tapes

1

Radar Tapes

Cloud Physics Tapes

Video Tapes

AXBT

AXCP

AXCTD

Dropsondes

4

Video

Forward

Left Side

Right Side

Down

Remarks

Time On

Time Off

Rate

Remarks

1 SONDE HAD NO PRESSURES



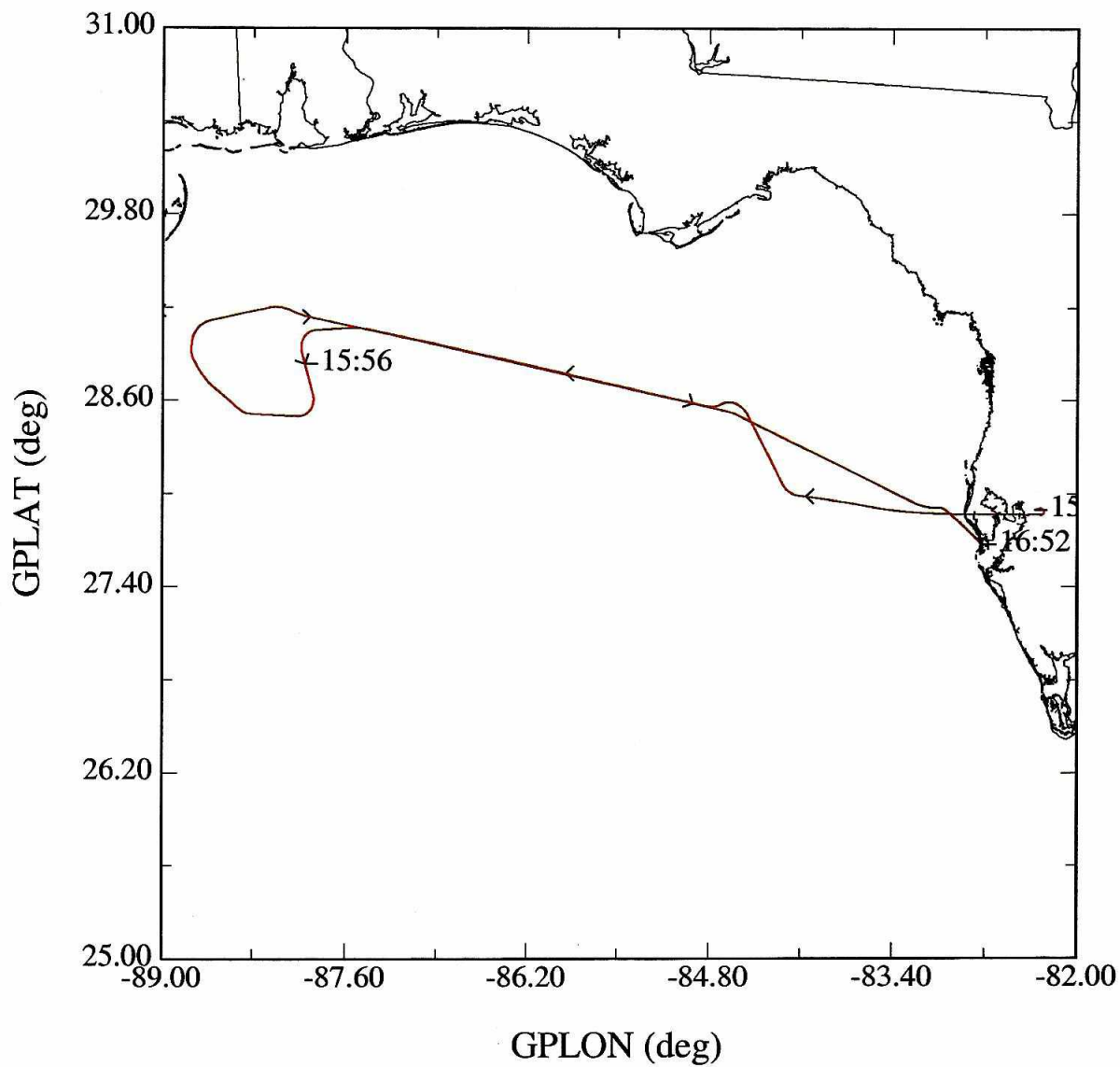
# N49RF AOC GPS Dropwindsonde Log

Flight ID 030103 n Flight Director FLAHerty Page      of     

Mission ID CUXWA Storm TRAIN[illegible]

## WinterStorms\_2002, Flight #tf01

01/03/2003 UTC, 15:00:00-16:52:30

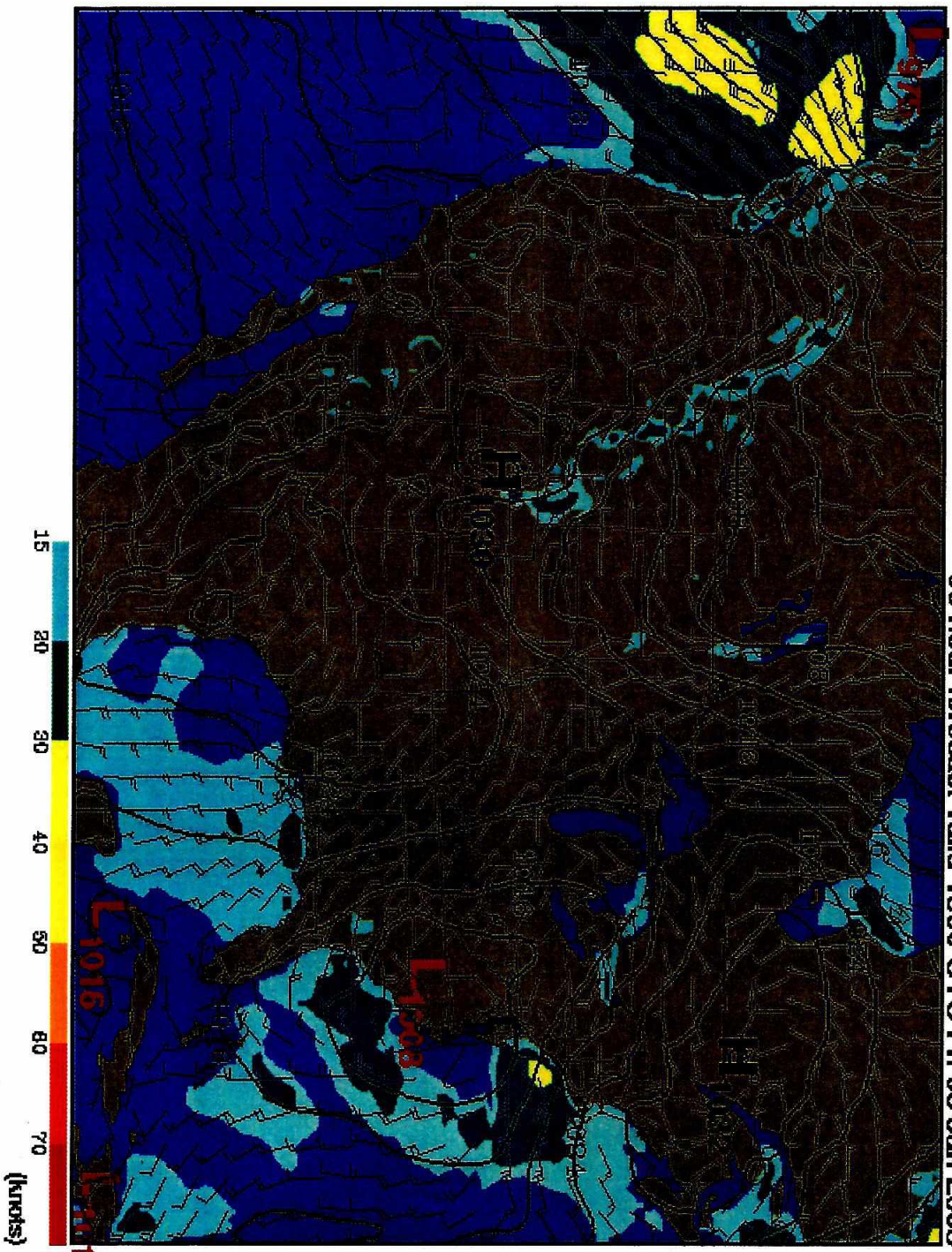


	mean	sigma	min	max
— GPLAT (deg), 1 s/sec	28.52	0.44	27.67	29.21
— GPLON (deg), 1 s/sec	-85.55	1.96	-88.78	-82.25



# MSLP (mb) / Surface Wind speed (kts)

06 hour forecast valid 1500 UTC Fri 03 Jan 2003





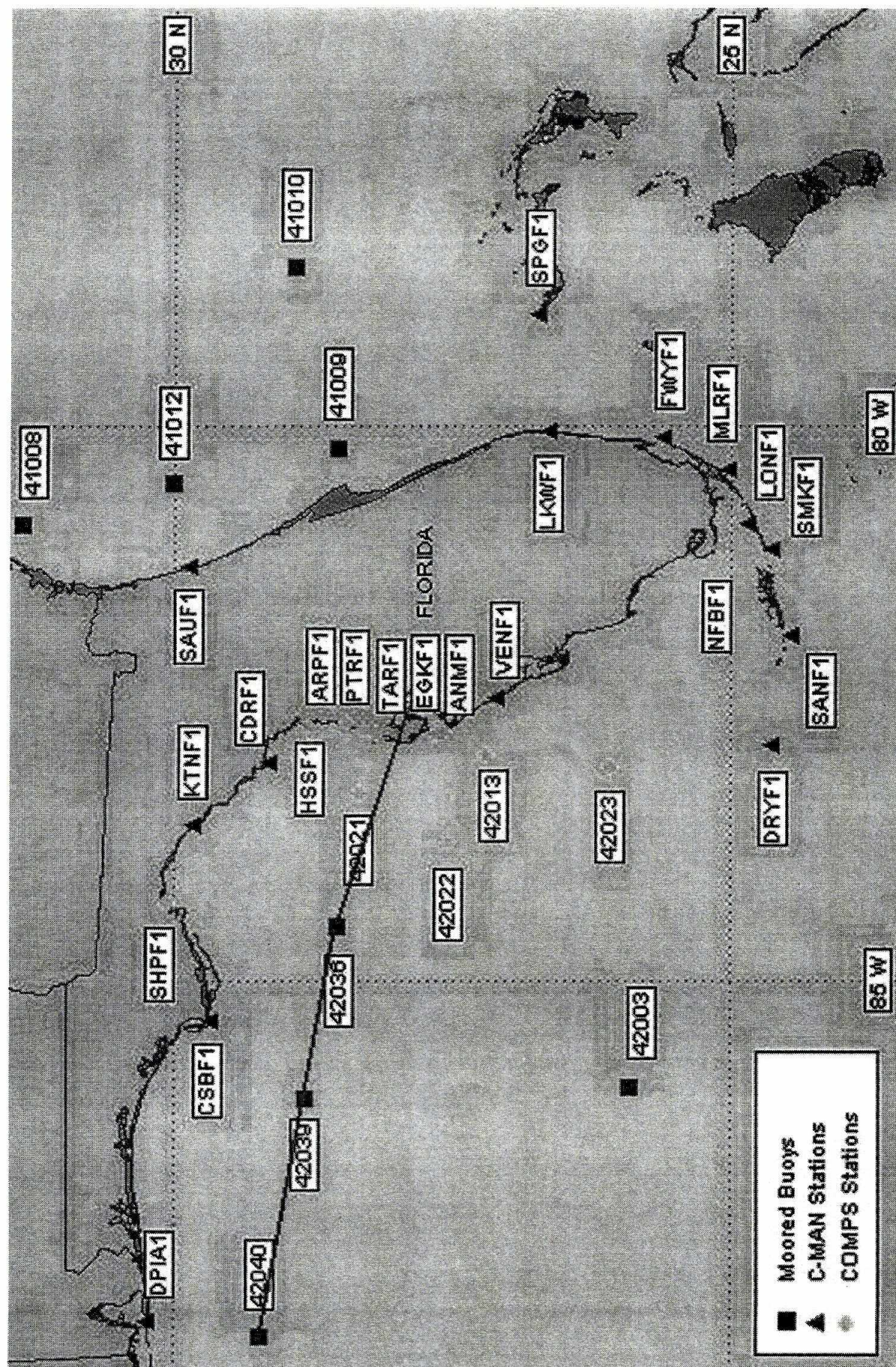
# Wind speed (kts) at 42,000 ft MSL (175 mb)

06 hour forecast valid 1500 UTC Fri 03 Jan 2003

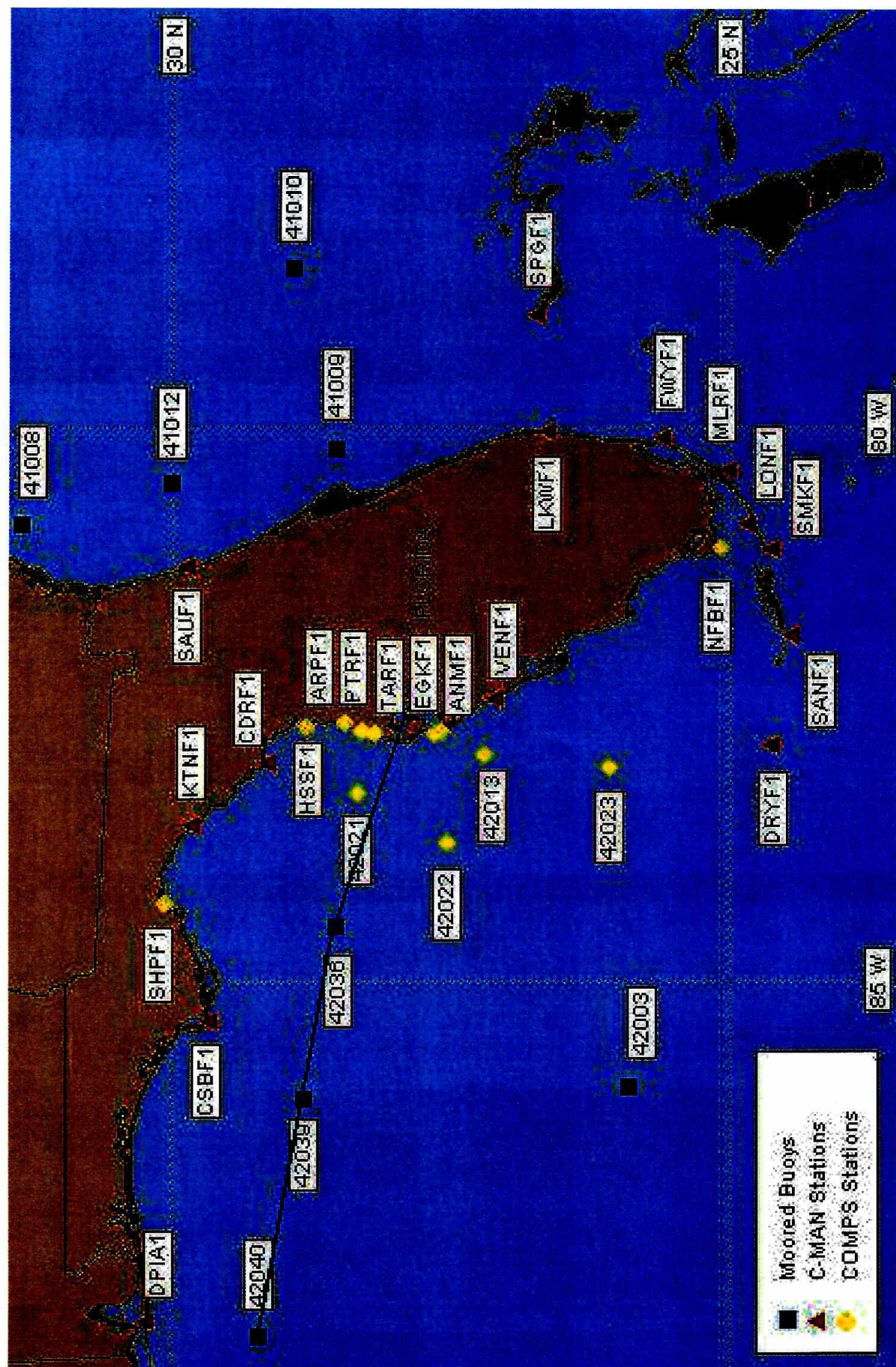


ADDIS temp/wind charts supplement, but do not substitute for, the official winds and temperatures aloft forecast contained in the FD product





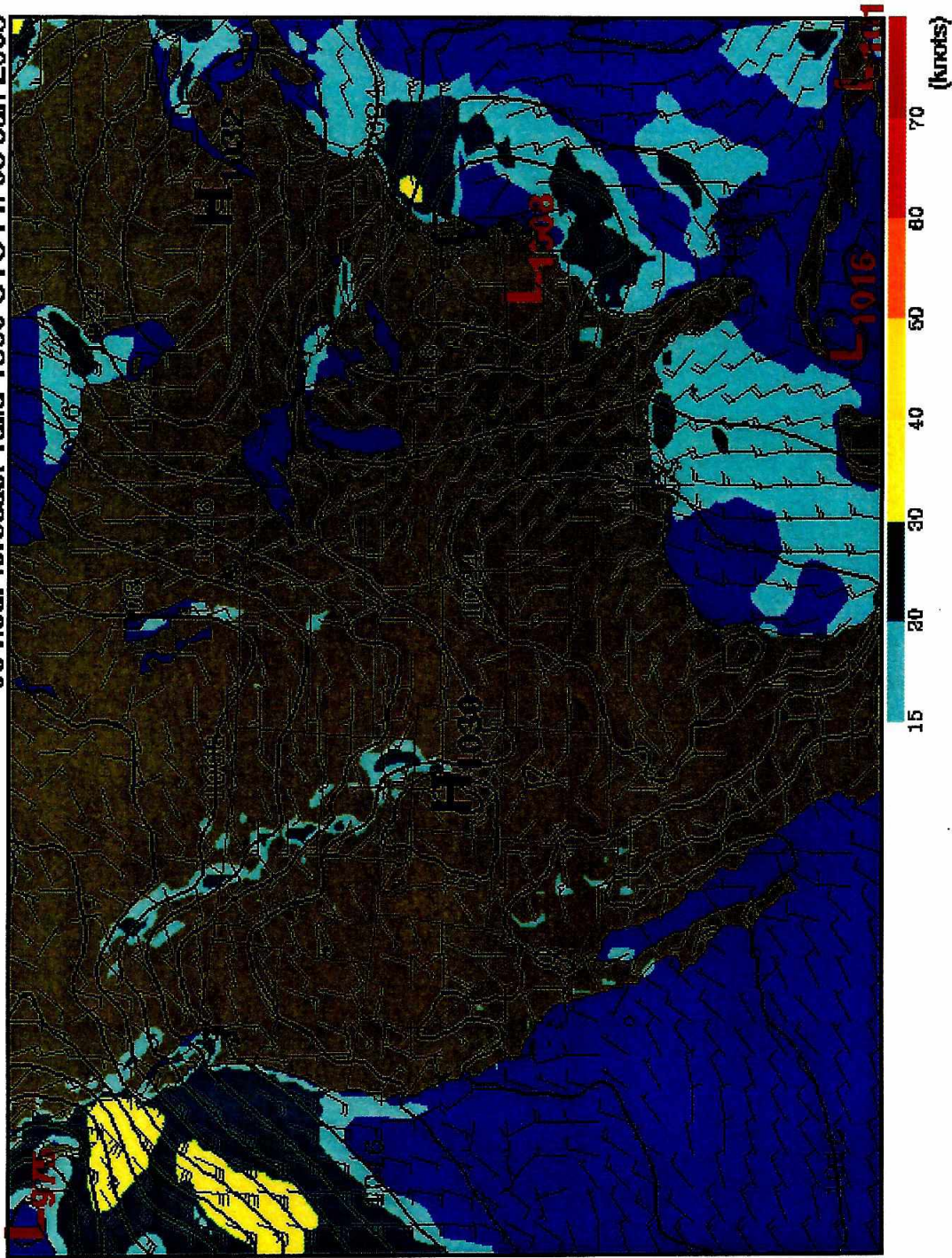






# MSLP (mb) / Surface Wind speed (kts)

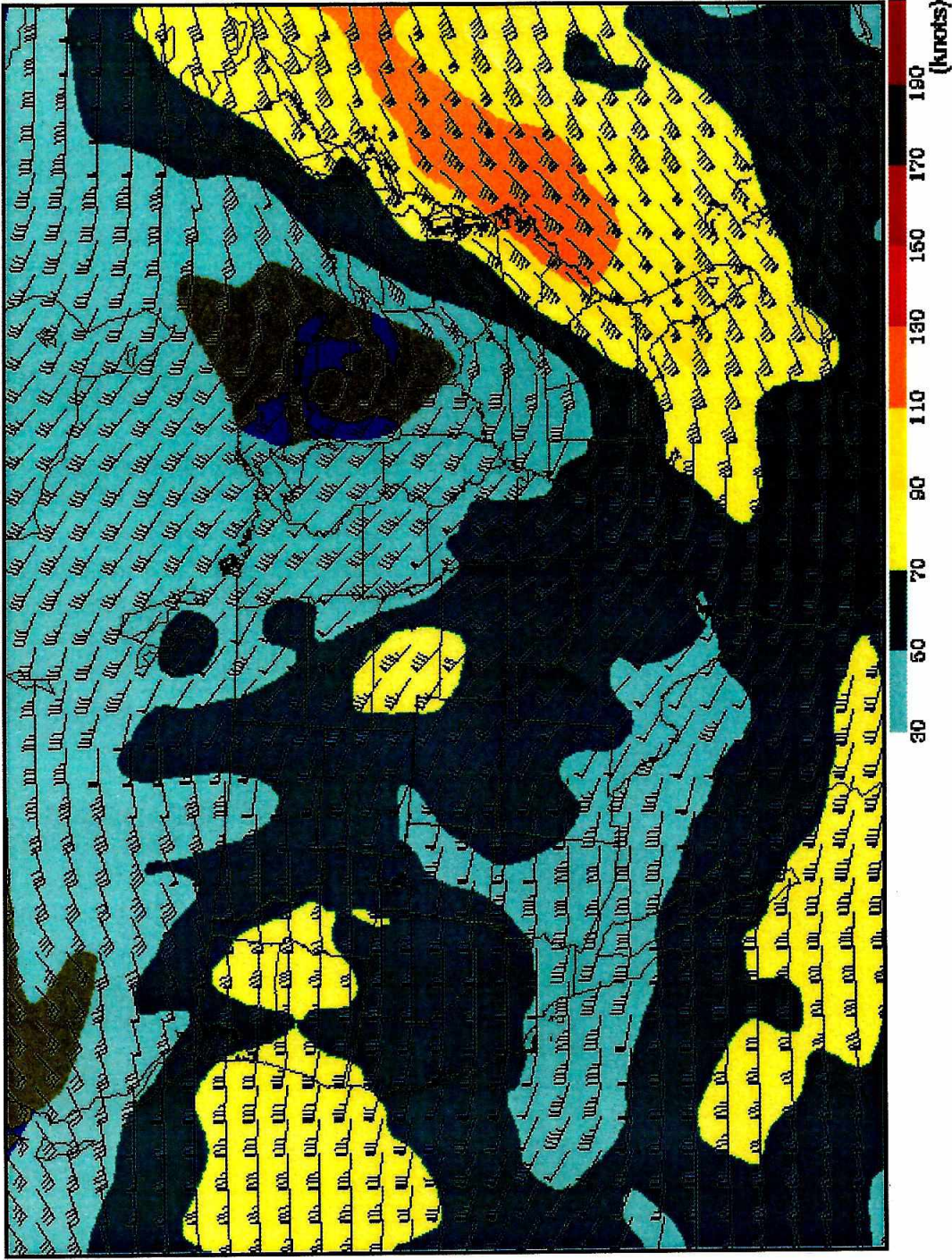
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