19850901IZ-LPS 850901IZ

E.2 Lead-Project Scientist (On-board)

E.2.1 Preflight

X 1. Participate in general mission briefing.

X 2. Determine specific mission and flight requirements for assigned aircraft.

X 3. Determine from CARCAH or Field Program Director whether aircraft has operational fix responsibility and discuss with OAO Flight Director/Meteorologist and CARCAH unless briefed otherwise by Field Program Director.

X 4. Contact HRD members of crew to:

a. Assure availability for mission.
b. Arrange ground transportation schedule when deployed.
c. Determine equipment status.

X 5. Meet with OAO flight crew at least 90 minutes before takeoff, provide copies of flight requirements and provide a formal briefing for the flight Director, navigator, and pilots.

X 6. Report status of aircraft, systems, necessary on-board supplies and crews to appropriate HRD operations center (MGOC in Miami or FGOC at remote recovery location).

E.2.2 In-Flight

X 1. Confirm from OAO Flight Director/Meteorologist that satellite data link is operative (information).

NA 2. Confirm camera mode of operation.

X 3. Confirm data recording rate.

X 4. Complete Form E-2.

E.2.3 Postflight

X 1. Debrief scientific crew.

X 2. Report landing time, aircraft, crew, and mission status along with supplies (tapes, etc.) remaining aboard the aircraft to the appropriate HRD operations center (MGOC or FGOC).

____ 3. Gather completed forms for mission and turn in at the appropriate operations center. [Note: all data removed from the aircraft by HRD personnel should be cleared with the OAO Flight Director.]

_____ 4. Determine next mission status, if any, and brief crews as necessary.

_____ 5. Notify the appropriate operations center (FGOC or MGOC) as to where you can be contacted and arrange for any further coordination required.

no radar tape labels

Videocassettes		
2400' tapes	2 ~~used~~ 12 used	~~3~~ 8 on board
1200'. tapes	12 used	6 on board

Form E-2
Page 1 of 5

On-board Lead Project Scientist Checklist

DATE 02 ~~Sept~~. 1985 AIRCRAFT 43RF FLT ~~8~~ 8509 ~~01~~ 12

A. Participants Turner, Myers, Gerrish, Moore

Function	Participant	Function	Participant
Lead Proj. Sci.	Marks	Gust Probe	
Cloud Physics		Omegasonde	
AXBT/ AXCP		Sys Eng	Goldstein
Hot Film		Data Tech	Bogert
Radar	Kohler	El Tech	Stone
Flt Dir/Met	Darby	Other	

Take Off 235920 Location MIA Landing 101950 Location MIA

ramp 25.8 (80.29) ramp 25.86 (80.89)

B. Past and Forecast Storm Position

Date	Time (~~23~~ 22 30Z)	Latitude (~~29~~)	Longitude (~~85~~)	MSLP
01 Sept.	1713	28° 49'	84° 35'	956
	1549	28° 45'	84° 26'	957
	1448	28° 41'	84° 15'	958
	1313	28° 40'	84° 10'	960
	1120	28° 37'	84° 05'	962

C. Mission Briefing

~~rotating~~ Fig 4' N-S, E-W 5000'

D. Equipment Status

Equipment	Pre Flt	In Flt	Post Flt	Reports Collected
Aircraft	✓	✓	✓	✓
Radar	✓ (4)	✓	✓	✓
Cloud Physics	— (1)			
Data Sys	✓	✓	✓	✓
Omegasondes				
AXBT/AXCP				
Gust Probe				
Hot Film				
Photography	✓ (*)	~~high speed (1st 2 passes in eye. if possible~~		

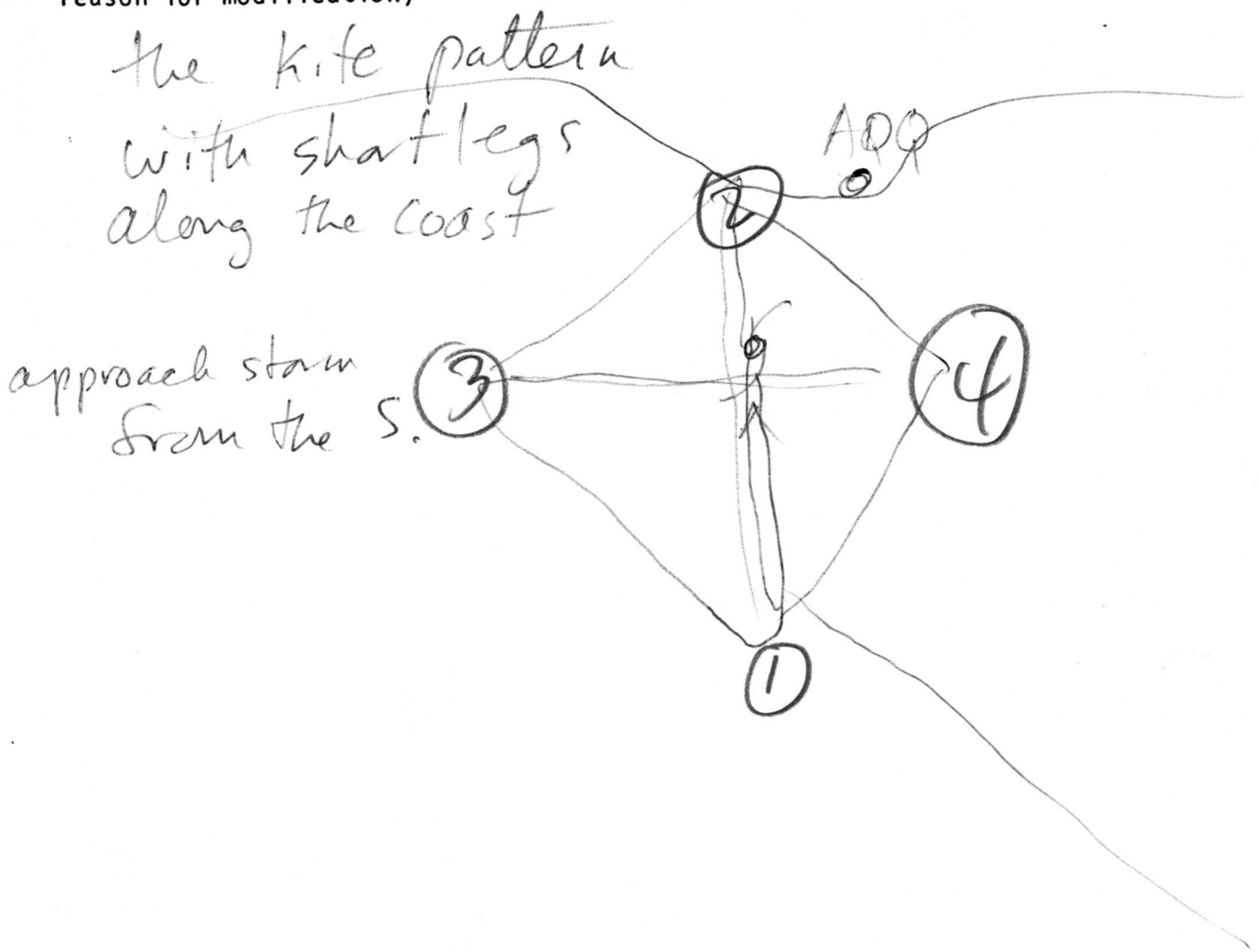
REMARKS

(1) No Cld. phys. data being taken

(*) ~~try and circle in the eye the first time through to get photo and 3-D mapping of eye.~~

(4) ~~Doppler radar on~~ Ok

E. Proposed and Actual Flight Patterns (Identify by number and type - give reason for modification)



(2)

DATE 7 Sept. 1985 FLIGHT 850901A/B LPS Merlin

Lead Project Scientist Event Log

EVENT	TIME*	POSITION	COMMENTS**
(4)	052512	29.45, 84.44	outside turn W → 6
			nice turn for Doppler work
		~~29.44'~~ 21'	
6	060115	29.64 87.12	957
			west to 3
(3)	~0625	~29.~~42~~ 88.14	heading SE to (1)
(1)	0659	27.32 87.39	turn N → 6
			long correction ~15'
6	07422	29°~~35~~' 87°36'	(can't go N) 957mb
			(heading SW)
	0755		climb to 10000
			try last fix at 10 kft. track o
		milling around west of center	
31	081212	29.47 88.49	track 080° to 6 at 10 kft.
6	0826	29°53' 88°00'	track 090° to leave. 953mb
	083216	29.96 87.26	climb out to go home
		long. need +26' correction	
		lat 0-3" correction.	

*Log times of all significant altitude changes, turns, and eye fixes
**New altitude, heading, center position, etc.

(1)

54 10' 2.75 30nmi
18
36'

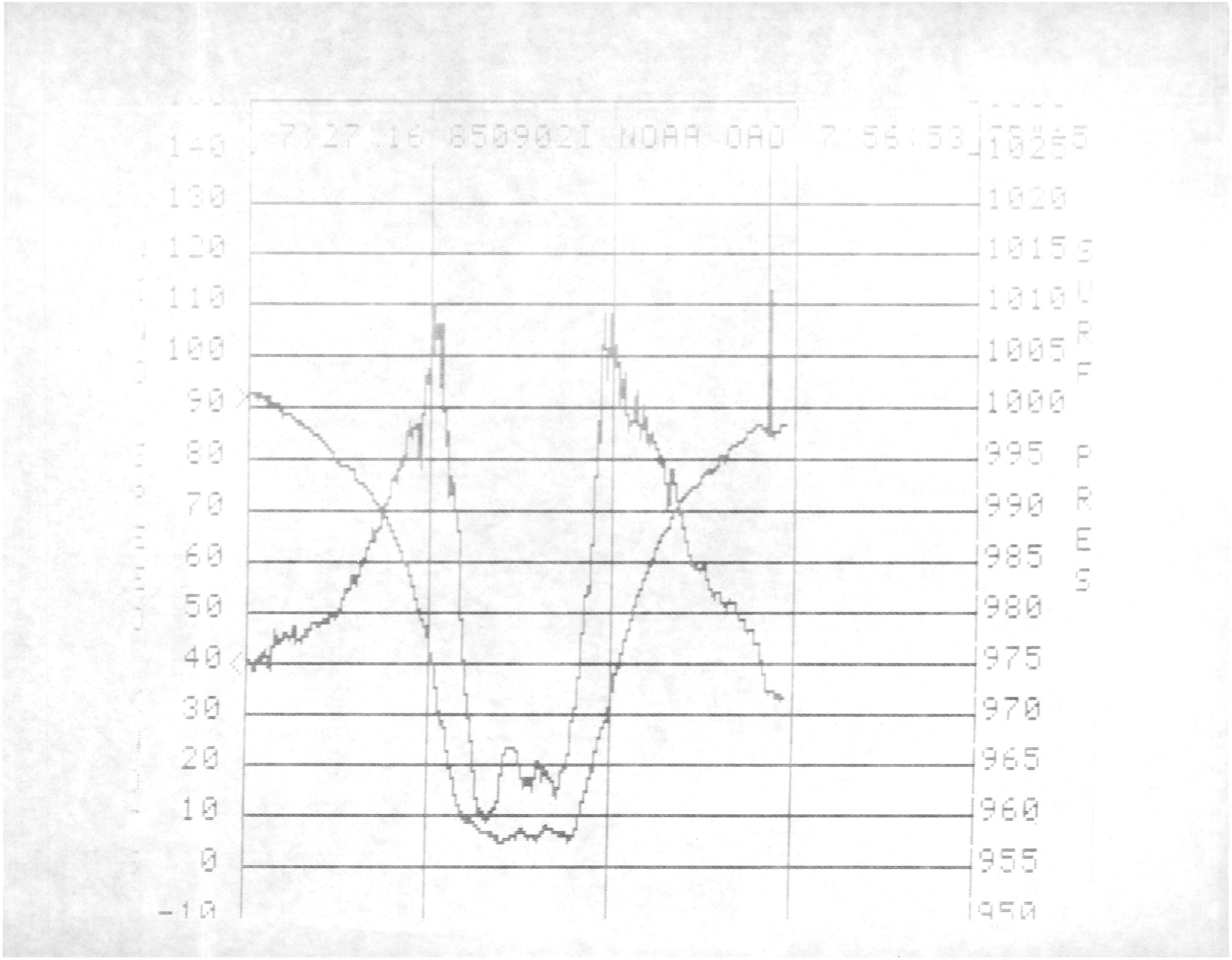
DATE 1 Sept. 1985 FLIGHT 85090I.IT LPS Marks

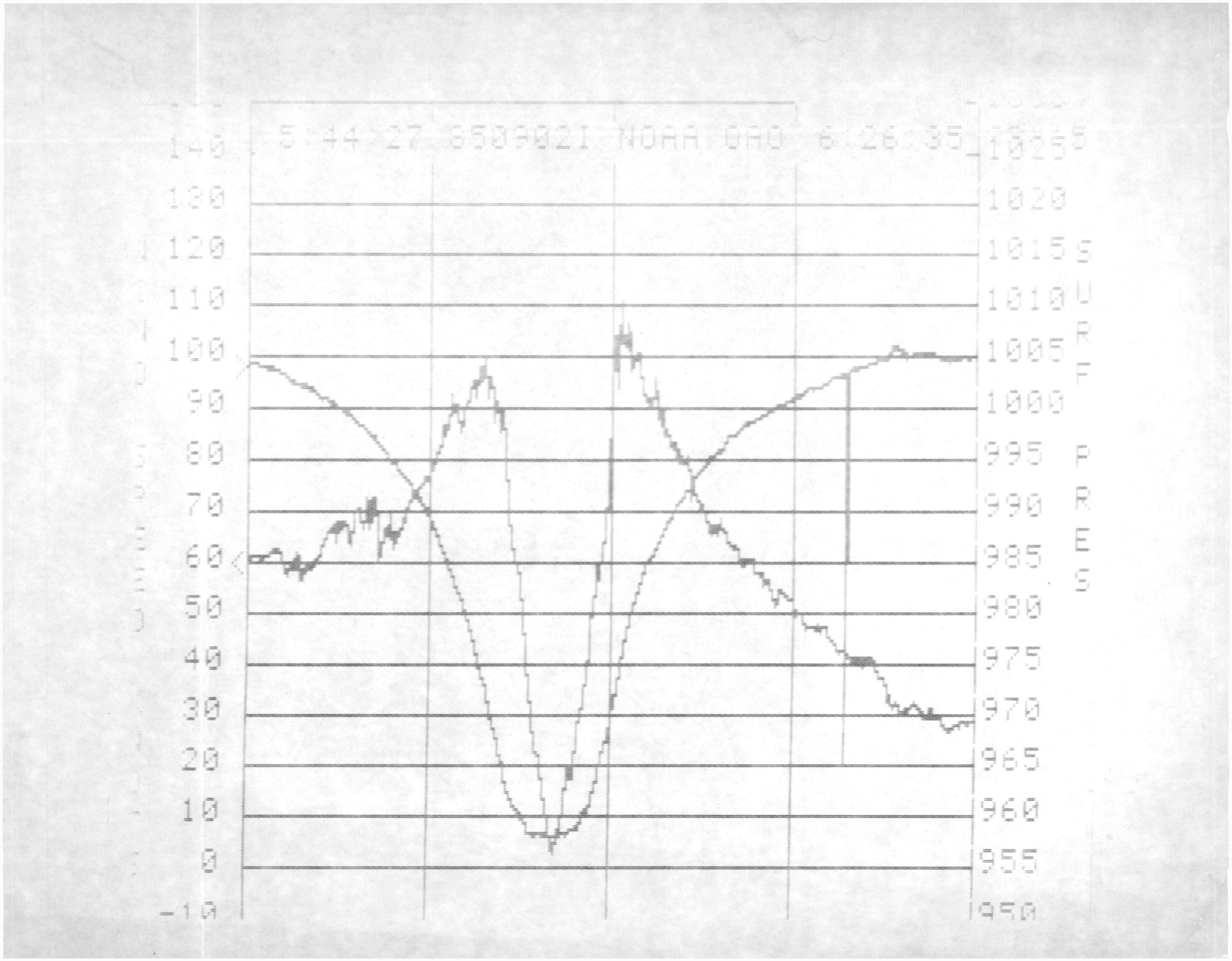
4.50
1.75
2.25

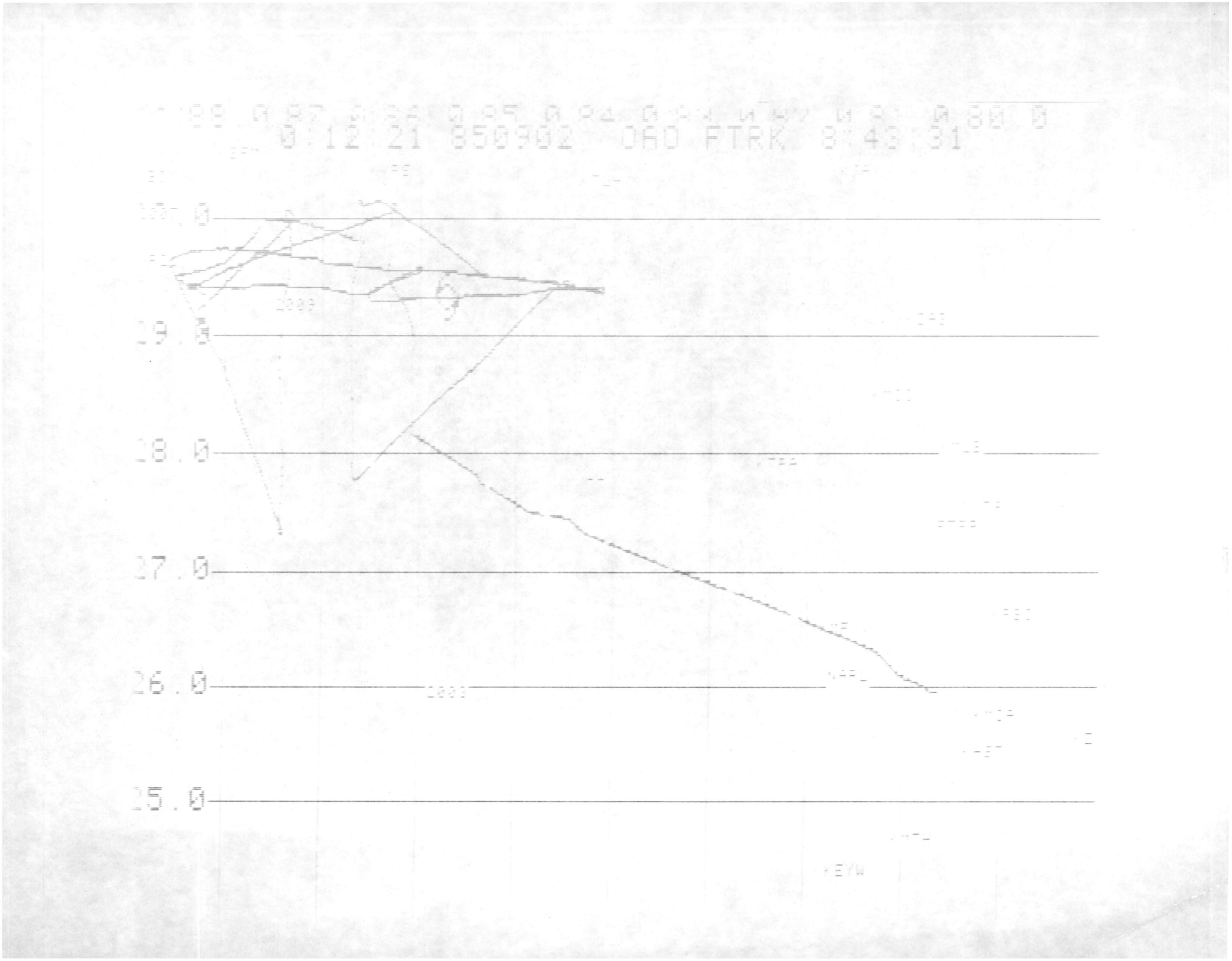
Lead Project Scientist Event Log and Doppler Log.

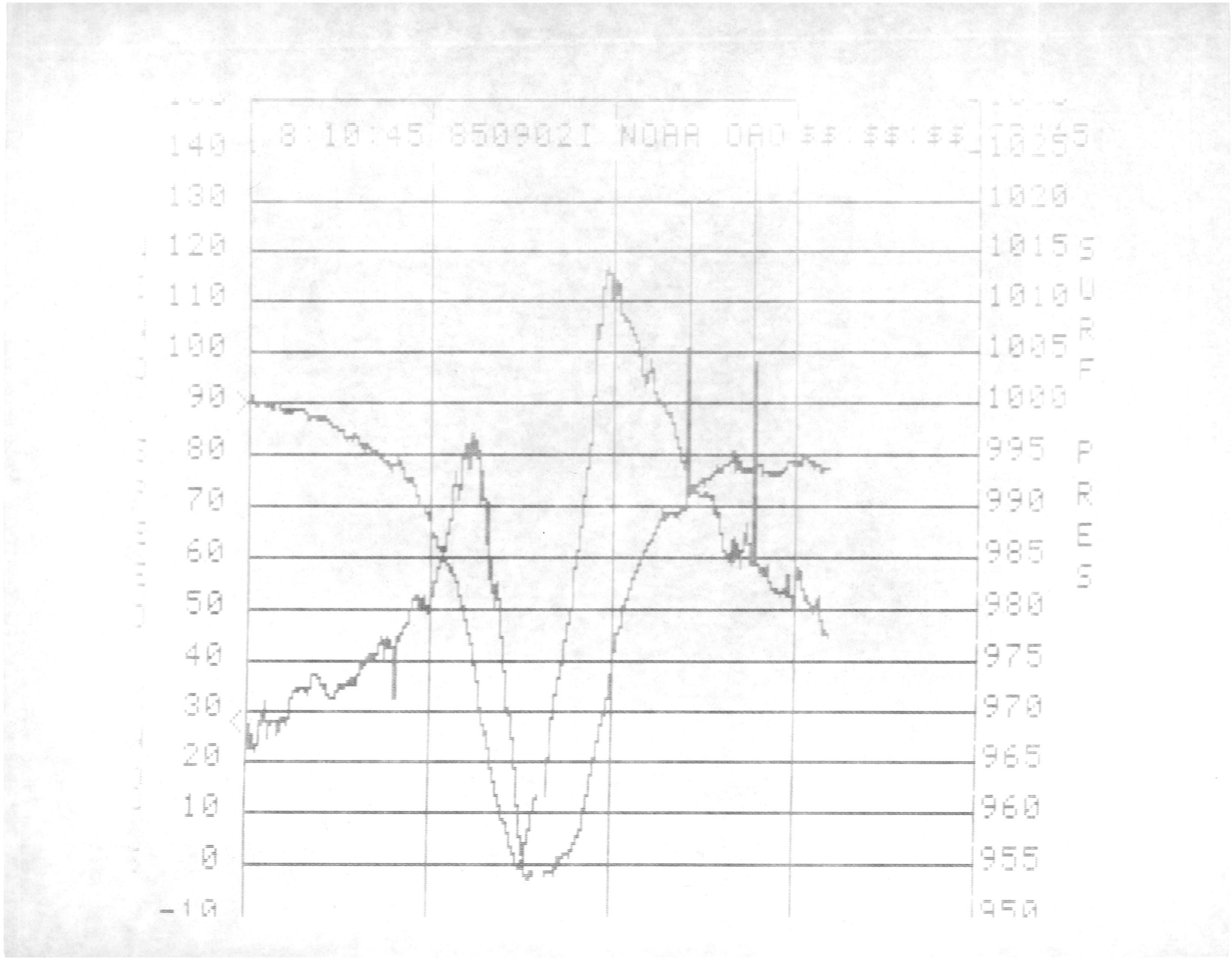
EVENT	TIME*	POSITION	COMMENTS**
T.O.	235920	25.8 80.29	
(1)	01302	28.43, 86.07	head N to eye. data system down ~0142 - 0144
6	014525	28.41, 86.24	954
(2)	015944	30.09, 86.25	turn 250° to (3) outside turn
(3)	022400	29.38, 88.38	turn E → 6
6	0307 → 0252	29.37 86.48 → 29.38 86.40	go out of eye and 955 back in again. nice striations along E side of eye.
(4)			head east to (4)
4'	035546	29.45 85.45	south of Port Joe turn NW to (2)
			big INE errors both 1 & 2
(2)	041032	30.1 86.59	turn 5 → 6
6	042432	29.45 86.68	956 mb 69.3 m s⁻¹
(1)	0453	27.86 86.68	turn NE to (4) or 4'

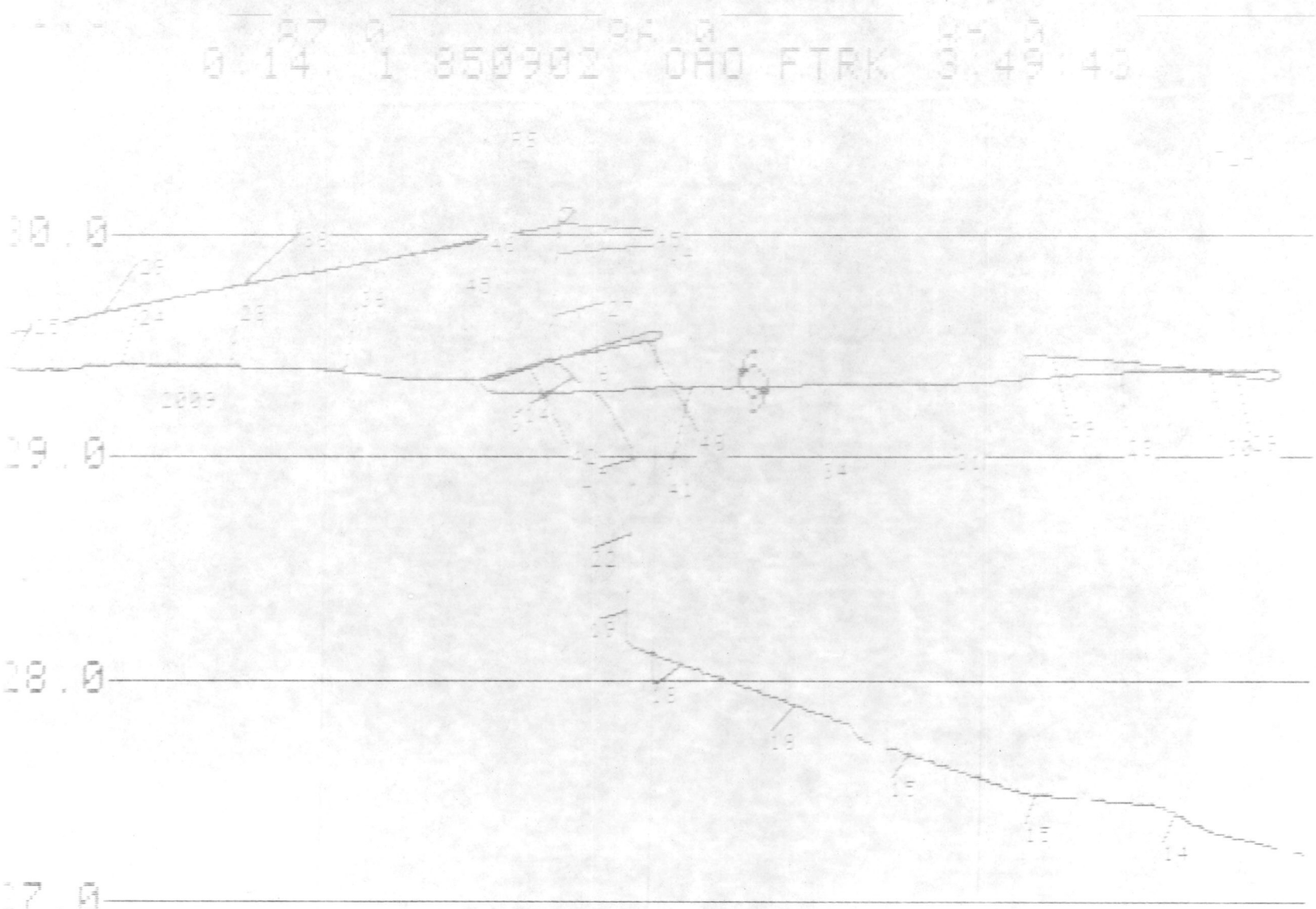
*Log times of all significant altitude changes, turns, and eye fixes
**New altitude, heading, center position, etc.

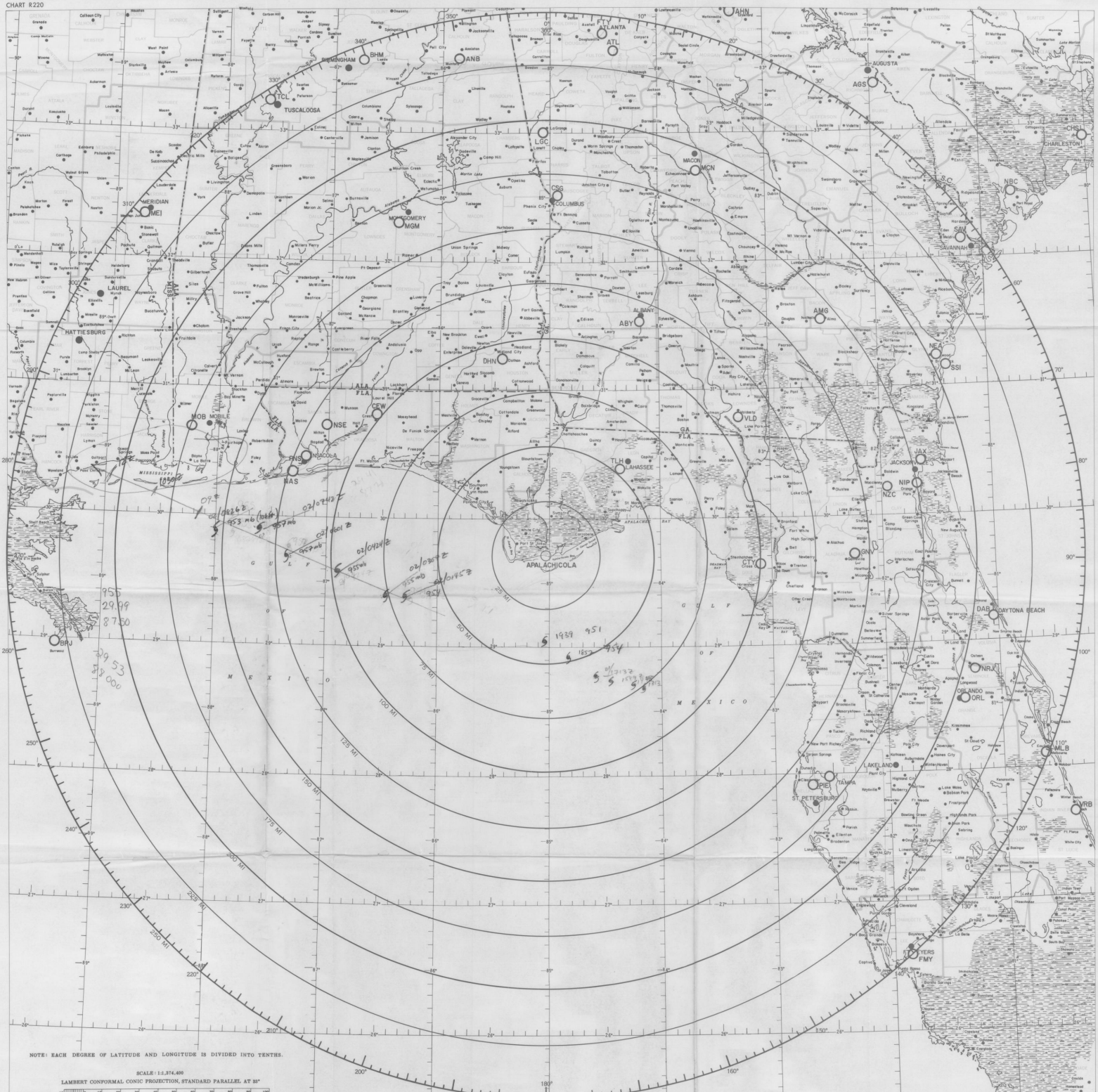

7 27 16 8509021 NOAA OAD 7:56:53
140
130
120
110
100
90
80
70
60
50
40
30
20
10
0
-10
1025
1020
1015
1010
1005
1000
995
990
985
980
975
970
965
960
955
950
SURF PRES


5:44:27 650902I NOAA ORD 6:26:35
150
140
130
120
110
100
90
80
70
60
50
40
30
20
10
0
-10
1025
1020
1015
1010
1005
1000
995
990
985
980
975
970
965
960
955
950
SURF PRESS


19.0
18.0
17.0
26.0
25.0


8 10:45 850902I NOAA OAD $$:$$:$$
140
130
120
110
100
90
80
70
60
50
40
30
20
10
0
-10
1025
1020
1015
1010
1005
1000
995
990
985
980
975
970
965
960
955
950
SURF PRES


20.0
19.0
18.0
17.0



NOTE: EACH DEGREE OF LATITUDE AND LONGITUDE IS DIVIDED INTO TENTHS.

SCALE: 1:1,374,400

LAMBERT CONFORMAL CONIC PROJECTION, STANDARD PARALLEL AT 33°

STATUTE MILES 0 10 20 30 40 50 60 70 80 90 100

NAUTICAL MILES 0 10 20 30 40 50 60 70 80 90 100


JNC
47
EDITION 2
Highest TERRAIN elevation is 10128 feet located at 19°02'N 71°00'W
TERRAIN CHARACTERISTIC TINTS
ELEVATIONS ARE IN FEET
WATER TINTS
DEPTHS ARE IN FATHOMS
ALTITUDE CONVERSION SCALE
CONVERGENCE TABLE
GULF OF MEXICO COASTAL ADIZ
MIAMI OCEANIC CTA/FIR
HOUSTON OCEANIC CTA/FIR
HAVANA CTA/FIR
W-453
W-155
W-151
W-470
W-168A
W-168B
W-168C
W-174A
W-174B
W-174C
W-174D
W-174E
W-158C
NEW ORLEANS
MOBILE
PENSACOLA
TALLAHASSEE
JACKSONVILLE
TAMPA
ST PETERSBURG
SARASOTA
ORLANDO
ATLANTA
MONTGOMERY
BIRMINGHAM
KEY WEST
HAVANA
27° 50'
87° 22'