On-board Lead Project Scientist Checklist

DATE 10/13/83 AIRCRAFT 43RF FLT 831013I1

A. Participants

Function	Participant	Function	Participant
Lead Proj. Sci.	JORGENSEN	~~Gust Probe~~	
Cloud Physics	Church, II	~~Omegasonde~~	
~~AXBT~~ Radar	Bogert	Sys Eng	Schricker
~~Hot Film~~ Doppler	Lord	Data Tech	Dugran rut
Radar	LeMone	El Tech	Stone
Flt Dir/Met	Darby	Other	

Take Off Acu Location 1513 Landing 2210 Location ACY

B. Past and Forecast Storm Position

Date	Time	Latitude	Longitude	MSLP
10/13		13.4 N	103.1 W	45 knots

C. Mission Briefing

Raobs and

D. Equipment Status

Equipment	Pre Flt	In Flt	Post Flt	Reports Collected
Aircraft	ok	Chip light #2	aborting mission at 1202Z	
Radar	ok			
Cloud Physics	ok			
Data Sys	ok			
Omegasondes	✓			
AXBT	—			
Gust Probe	—			
Hot Film	—			
Photography	ok			

REMARKS

Doppler ok

Form I-2 Cloud Physics Project Scientist Operational Checklist

DATE 13 Oct 83 AIRCRAFT 43RF FLIGHT 831013I

A. INSTRUMENT STATUS AND PERFORMANCE

	PreFlight	InFlight	PostFlight	Remarks	Data Units Collected
Johnson Williams					
Nimbiometer					
Lyman Alpha					
U. V.					
dewpoint					
Foil Impactor					
Permvar					
Knollenberg	↑	↑			
Raindrop	↑	↑			
Cloud Droplet	↑	↑			
FSSP	↑	↑			
Data System	↑	↑			
& Displays	↑	↑			
Ice Particle Counter					
Mee					
ERT					
CO_2 Radiometer					
Microwave Radiometer					
Aerosol					
Filters					
Bulk Water					
INC					
CCN					

B. REMARKS

I had difficulty getting the tape drives to record data. Troubles began when the second tape drive was off line, and the first tape drive went off the end of tape. After pressing the Record button, the drives moved without recording data, and did not stop until the end of tape was again reached. But Finally we got the drive to record data again.

E. Proposed and Actual Flight Patterns

Hurricane Rainband Experiment

1742

Form E-1
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(1)

DATE 10/13/83 FLIGHT 831013 I1 LPS JORGENSEN

Lead Project Scientist Event Log

EVENT	TIME*	POSITION	COMMENTS**
T.O.	1513	Acu, Mex	16.75N 99.76W
5Kft	1536	15.77 100.94	TRK 215
TRK 200	1557	14.92 101.97	
Eye	162455	13.27 102.83	986 mb ~70 knots
Pt (3)	164020	12.48 103.47	
pt (4)	170230	12.65 102.05	TRK 318°
Eye	171950	13.45 102.83	988 mb ~80 knots
pt (5)	173310	14.02 103.51	
pt (1)'	174130	13.45 103.90	
Recon work 42	175400	13.47 103.60	INBound TRK 90°
Eye	180530	13.51 102.90	984
trk 100	180700		
End	181145	13.48 102.56	
Start	181280		TRK 190
END Start	181600 181710	13.26 102.58	trk 315°
END Start	182330 1823		trk 100°
END	183255	13.5 102.43	
Start	183344		trk 205
END	183540	13.23 102.5	
Start	183917		trk 292°

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

Form E-1
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(2)

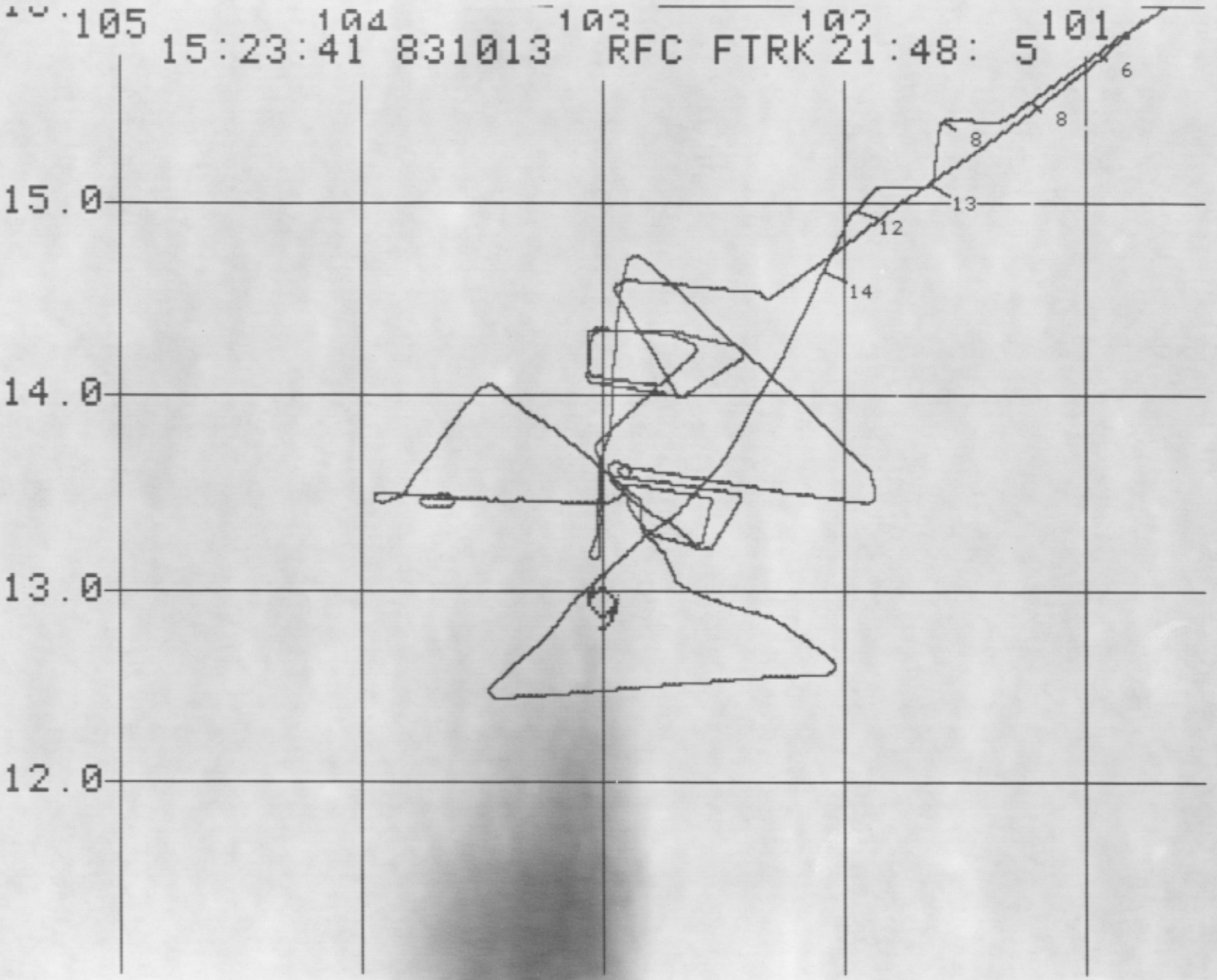
DATE 10/13/83 FLIGHT 831013I1 LPS Jorgensen

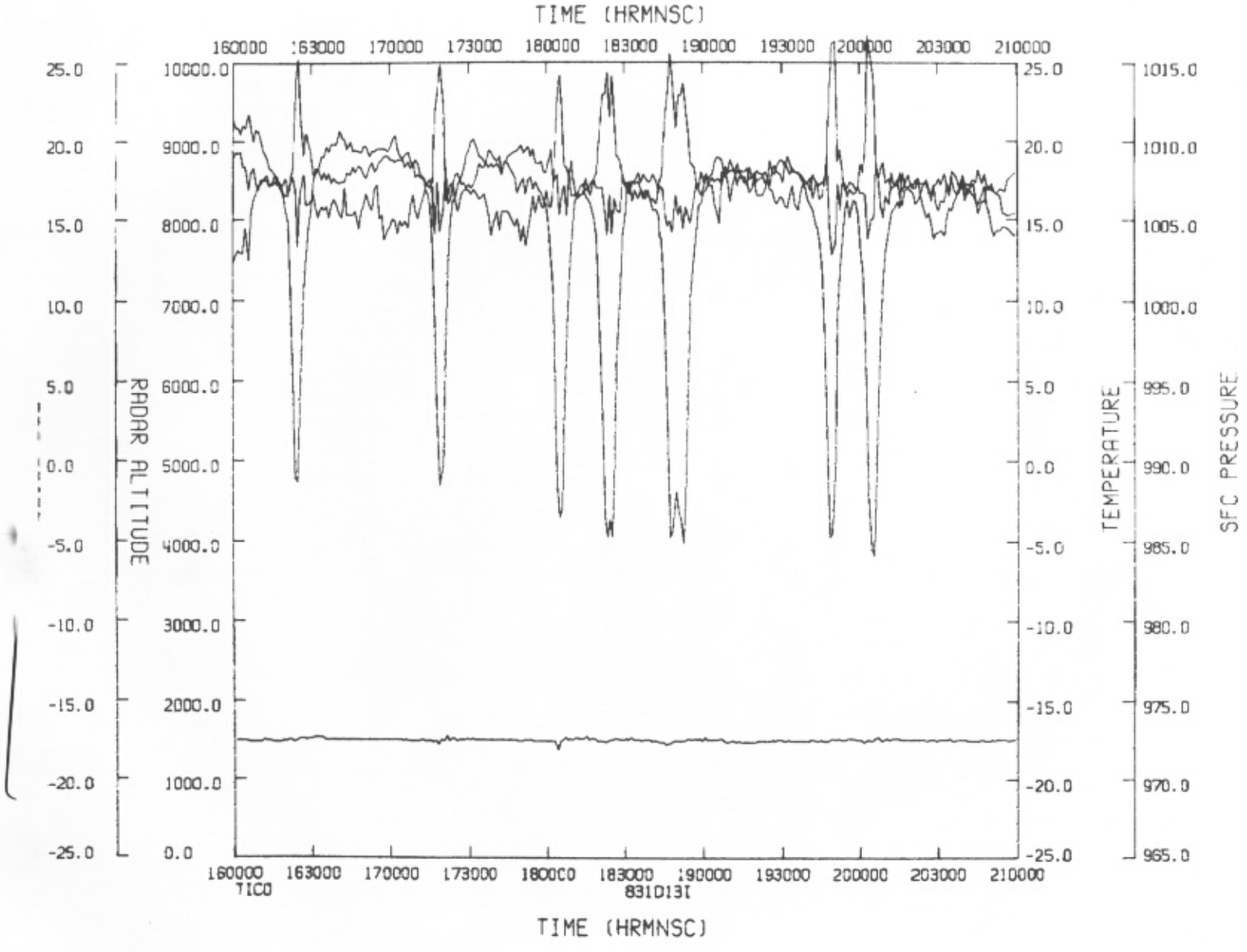
Lead Project Scientist Event Log

EVENT	TIME*	POSITION	COMMENTS**
~~Fix~~ END	184240	13.30 102.80	
Start	1844		trk 320
END	184558		
Start	184558		
End leg ③	190930	13.45 101.89	
Start	191200	13.6 101.92	trk 320
End Pt ④	193145	14.72 102.84	
Start	193245	14.70 102.9	TRK 180°
Eye	194840	13.68 103.00	984 mb
End ⑤	195650	13.17 103.04	TRK 000
Start	195730	13.20 103.50	
Eye ⑥	200517	13.71 103.02	983 mb
Start	200600		
End	201554	14.21 102.61	trk 40°
Start	201711	14.28 102.64	trk 275°
End	202204	14.34 103.01	
Start	202300	14.32 103.05	trk 180°
End	202625	14.1 103.06	
Start	202700		trk 101°
End	203400	13.99 102.67	
Start	203430	14.01 102.65	TRK 050
End	203835	14.17 102.93	
Start	204020	14.27 102.98	TRK 280
END	204700	14.34 103.00	

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

EVENT	Time	Position	Comments
start	204810	14.29 103.05	TRK 180°
End	205040	14.12 103.06	
start	205120	14.10 103.03	TRK 100°
End	205930	14.00 102.65	
Start	210020	14.01 102.70	TRK 395°
climb to 10000 ft	210620	14.43 102.90	
Turn	211000	14.60 102.89	TRK 095
Chip light #2	0120	Head to ACU.	
land	2210	16.72 99.79	at ACU


105
104
103
102
101
15:23:41 831013 RFC FTRK 21:48: 5
15.0
14.0
13.0
12.0
6
8
8
13
12
14


TIME (HRMNSC)
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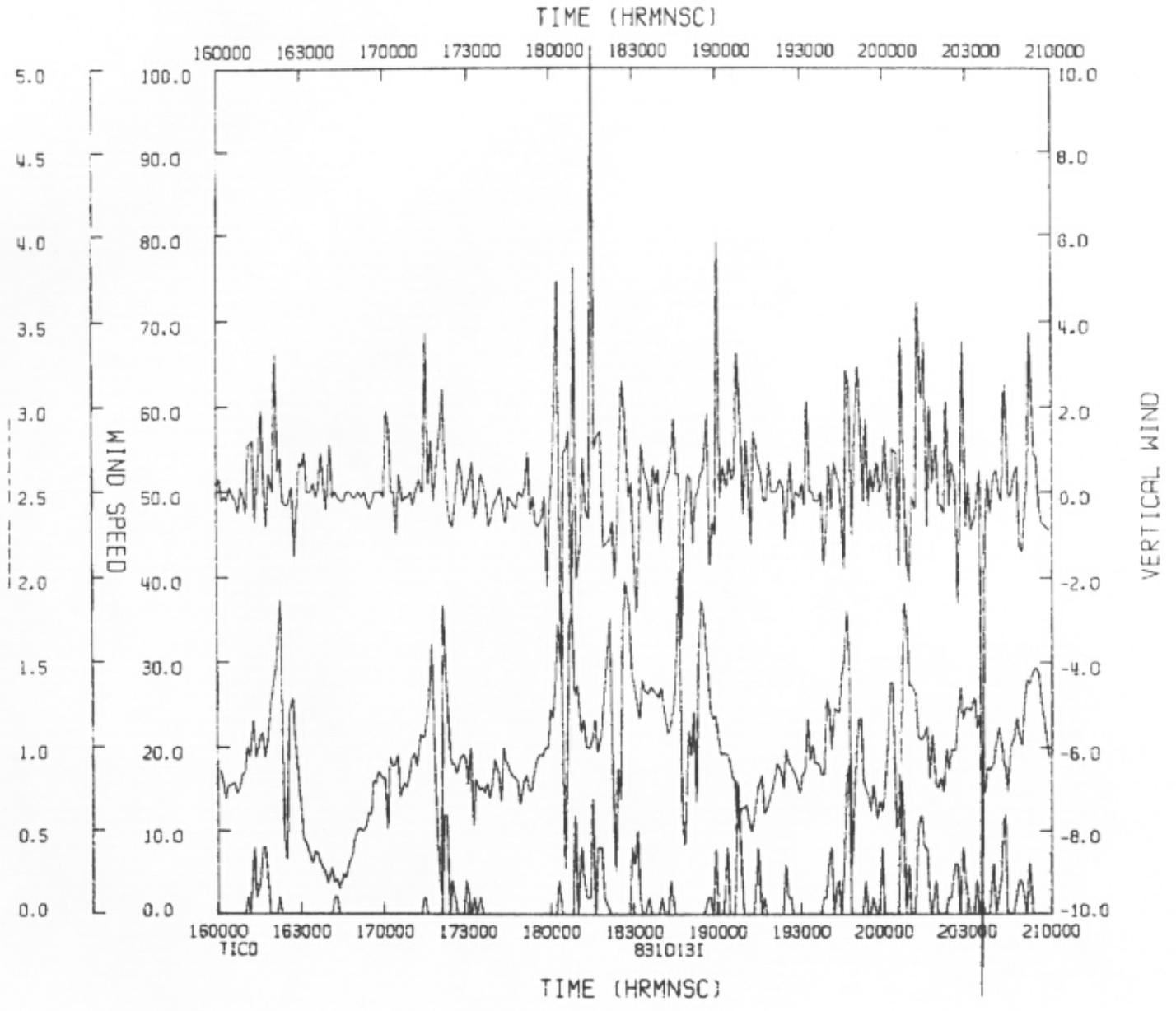
163000
170000
173000
180000
183000
190000
193000
200000
203000
210000
25.0
20.0
15.0
10.0
5.0
0.0
-5.0
-10.0
-15.0
-20.0
-25.0
10000.0
9000.0
8000.0
7000.0
6000.0
5000.0
4000.0
3000.0
2000.0
1000.0
0.0
RADAR ALTITUDE
TEMPERATURE
1015.0
1010.0
1005.0
1000.0
995.0
990.0
985.0
980.0
975.0
970.0
965.0
SFC PRESSURE
TIC0
831D13I
TIME (HRMNSC)


TIME (HRMNSC)
160000
163000
170000
173000
180000
183000
190000
193000
200000
203000
210000
5.0
4.5
4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
100.0
90.0
80.0
70.0
60.0
50.0
40.0
30.0
20.0
10.0
0.0
WIND SPEED
10.0
8.0
6.0
4.0
2.0
0.0
-2.0
-4.0
-6.0
-8.0
-10.0
VERTICAL WIND
TIC0
831013I
TIME (HRMNSC)