

198207MI1-LPS

1982 sea-breeze experiment

Date: 14 July 1982

Takeoff Miami ~ 1315
Landing Miami ~ 2210

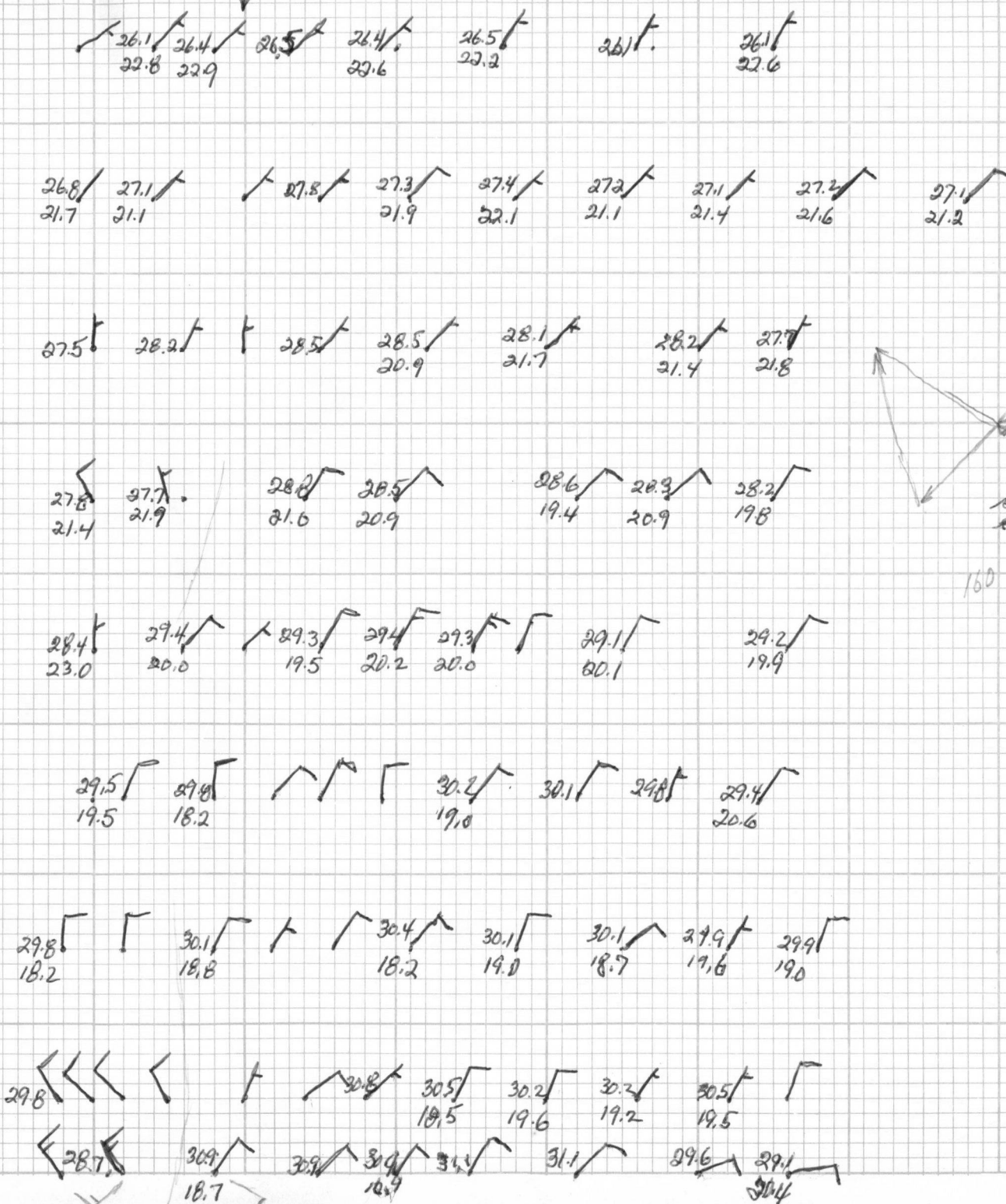
Aircraft: N43RF

Wind L

start	End
1. 134715	135610
2. 204700	210000

eg No.	East-to-West Legs			West-to-East Legs			Doppler South-to-North Legs	
	Altitude	Start	End	Altitude	Start	End	Start	End
1	500	133635	134335	1000	135730	140535	163700	164210
2	2500	140930	141750	7000	142445	143200	171020	171520
3	500	144030	144810	1000	145205	150010	213140	213900
4	2500	150425	151210	7000	151830	152555		
5	500	153035	153740	1000	154200	155015		
6	2500	155800	160525	7000	161015	161750		
7	500	162200	162935	1000	164310	165020		
8	2500	165405	170150	7000	171635	172330		
9	500	172740	173510	1000	173840	174640		
10	2500	175010	175830	7000	180200	181000		
11	500	181410	182150	1000	182450	183320		
12	2500	183730	184510	7000	184930	185730		
13	500	190140	190930	1000	191320	192140		
14	2500	192510	193245	7000	193715	194510		
15	500	194945	195730	1000	200130	200950		
16	2500	201400	202130	7000	202555	203330		
17	500	203820	204605	1000	210000	210840		
18	2500	211300	212040	7000	214030	214600		

No.	descent Temperature		Soundings Cloud Base (feet)
	Start	End	
1	climb	1407	1700
2	143400	143730	2200
3	climb	1501	2600
4	152600	153030	2800
5	161755	162200	3300
6	172330	172740	3700
7	181000	181410	3800
8	185730	190140	4300
9	194510	194945	4500
10	203330	203820	4600
11			



~~8320~~ 82° W 90 80 70 60 50 81°40' W 2500

13008 03006

22.5/15.7 22.3/15.7 22.3/16.1 21.7/16.8 22.0/15.8 21.8/16.5 22.1/16.4 21.7/16.6 21.5/17.5

IFR in clouds

E → W

22.2/17.3 22.1/17.3 22.4/18.6 22.4/18.6 22.1/20.0 22.2/20.0 21.9/17.7 22.5/17.5

at cloud base

22.7/18.0 22.8/18.8 22.8/19.8 23.0/18.1 22.9/19.3 22.8/16.6 22.7/18.9

3000

22.9/18.5 23.4/17.6 23.4/17.8 23.2/19.5 22.9/18.5 23.1/17.7 23.2/17.0 23.7/18.9

clouds extend
about 1 1/2 miles
offshore

PBI 13505

TPA 19506

EYW 13012

23.6/18.3 23.8/17.0 23.6/18.8 23.6/17.9 23.2/18.1 23.2/18.7

2000

PBI 12505

TPA 18508

EYW 12011

23.6/17.3 23.8/17.0 24.0/18.8 24.0/15.0 23.7/17.5 23.5/18.0 23.3/19.0

23.9/17.5 24.1/17.7 24.2/17.6 24.1/17.6 24.0/17.7 23.8/17.4 23.7/17.3

24.3/17.2 24.7/16.1 24.6/16.3 24.5/17.0 24.8/15.7 24.1/17.8 24.0/17.6

24.7/17.5 24.7/18.0 24.9/17.7 24.9/18.7 24.5/17.3 24.4/17.1 24.3/17.4

82°

82°

90

80

70

60

50

81°40

1000

25.3
21.025.2
22.125.4
22.425.3
22.125.2
25.125.2
21.325.9
21.726.1
21.926.2
20.926.1
21.426.0
19.825.9
19.826.1
20.925.9
20.9tops of clouds
evaporating

W → E

25.9
20.126.7
19.926.8
20.226.8
20.426.6
21.126.4
20.926.5
21.3inertial out
locations off27.6
19.227.6
20.427.5
19.227.4
21.227.1
19.926.9
20.2

PBI 070 02

TPA 160 09

EYW 110 10

27.3
21.127.9
19.228.1
17.928.2
18.528.0
19.127.8
19.027.9
18.927.7
18.727.7
19.327.8
19.128.1
18.528.4
19.328.4
18.328.4
18.028.4
18.528.3
19.028.4
19.528.0
19.528.9
17.528.7
18.329.1
17.928.9
17.628.7
19.828.8
18.728.4
18.7

○ ○

29.3
17.229.5
17.529.4
18.629.0
18.429.0
19.2

27.7

28.3
19.629.1
18.529.6
18.829.2
19.229.3
19.428.8
19.128.4
20.027.4
19.126.2
19.5C_b

82W

52

90

85

70

60

50

81°40'W

7000

13.9
5.614.0
5.613.9
6.213.9
5.813.8
6.213.9
6.714.1
6.014.3
5.3

all offset 10

13.5
6.813.5
5.913.7
5.813.4
7.213.7
7.313.5
5.613.7
5.813.8
6.1

N → E

13.2
6.313.2
7.813.8
7.413.3
7.213.0
6.212.5
8.713.0
6.313.4
6.913.5
5.813.6
5.713.5
6.013.9
7.914.0
6.5suppressed area
over land, Cb's all
around14.1
5.413.1
8.613.7
6.614.0
6.113.7
7.113.8
6.413.6
7.813.7
7.113.6
6.114.0
5.114.5
4.413.9
6.313.6
6.914.0
5.514.4
5.114.1
4.713.8
5.7

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13.8
6.213.7
6.313.9
6.514.4
5.214.0
6.113.6
9.013.6
10.713.2
10.914.8
6.614.3
6.313.6
7.014.0
7.513.8
10.714.2
5.714.5
9.013.8
11.513.6
9.413.7
8.913.6
9.813.4
9.713.8
10.013.4
10.913.7
10.9