

19820612IL-LPS

Form E-1
Page 1 of 5

On-board Lead Project Scientist Checklist

DATE 8/12/82

AIRCRAFT 43

FLT 1

A. Participants

Function	Participant	Function	Participant
Lead Proj. Sci.	<u>JORGENSEN</u>	Gust Probe	<u> </u>
Cloud Physics	<u> </u>	Omegasonde	<u>Stme</u>
AXBT	<u> </u>	Sys Eng	<u>Schricker</u>
Doppler Hot Film	<u>Parrish / Feinberg</u>	Data Tech	<u>Gildstein</u>
Radar	<u>Marks / Cheng</u>	EI Tech	<u> </u>
Flt Dir/Met	<u>Haydu</u>	Other	<u> </u>

Take Off 1650Z Location MIA Landing 2222 Location MIA

B. Past and Forecast Storm Position

Date	Time	Latitude	Longitude	MSLP
<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
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C. Mission Briefing

Sea breeze

820812 I SEA BREEZE & ODW Test

Ramada INN Naples

7-1-813-597-3151 123

-6.7 4.6

TMP 500 mb height 5910
12:00

250/6 NP 10:45

270/8 12:00

Call Peter H get listing of MAPS system
first two flights 15 rate

Short delay at T.O. due to computer

T.O. 165050

Scattered C_u on way to IP 1705Z

At IP 1713Z

① Wind L over water 171930 → 173140

✓ Climb to 500 mb 173200 for ODW drop

Descend to 1000 ft

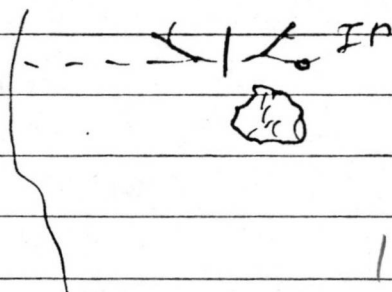
① 182650 Start S-N leg

S→N 183140 End of S-N leg turning to IP

② 183300 Start W→E leg

W→E 183910

Wind shift at 81.5 W 183700



Alt ~320m

End of leg 1831910

S leg N-S (3) 183953

End 184052

W leg E-W (4) 184138

End 184124

N leg S-N (5) 184508

End 184709

East leg W-E (6) 184740

End 185036

S leg N-S (7) 185120

End 185321

W leg E-W (8) 185400

End 185704

N leg S-N (9) 185751

End 190020

E leg W-E (10) 190042

End leg (3) 190308

S leg N-S (11) 190350

End 190546

West leg 26.18 81.4 190634

End 26.14 81.61 190915

N leg S-N (12) 191000

End 26.40 81.59 191303

East leg W-E (13) 191400

End 26.40 81.38 191639

South leg N-S (14) 191724

End 26.17 81.36 192033

-----IP

level 3

D.B.

isolated cell

D.B.

(2)

A.C. winds 1K

D.B.

(2)

line growing N-S

--- New cell

E-W

(12)

leading edge on west

D.B.

(3)

still two cells

D.B.

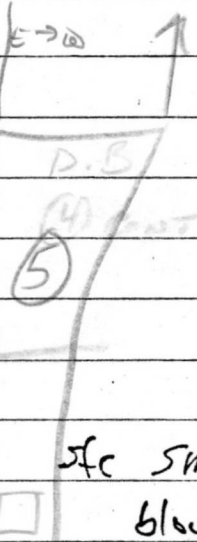
(4)

leading edge at S.B

convergence good winds!

(4)

West leg 192116
 End 26.11 81.60 192419
 North leg S-N 192500
 End 26.36 81.62 192828
 East leg W-E 192912
 End 26.39 81.35 193234
 South leg N-S 193305
 End 26.06 81.32 193820



leg in S.B.

outflow + SB

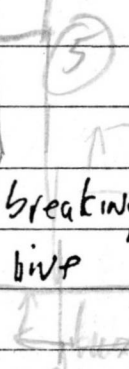


3 cells now

etc smoke

blowing W outflow!

West leg E-W 193906
 End 26.03 81.55 194203
 North leg S-N 194240
 End 26.28 81.57 194628
 East leg W-E 194710
 End 26.31 82.28 195108
 South leg N-S 195205
 End 25.98 81.24 195651



breaking through W

E

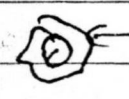
biv cells appear weaker line breaking up

going back to IP to set up L pattern

At IP 200425
 End 201210
 North S-N 201250
 End 26.47 81.98 201604
 South leg W-E 201805
 End 26.25 81.69 202221

going west

stray cell



we dissipating

heading toward cell

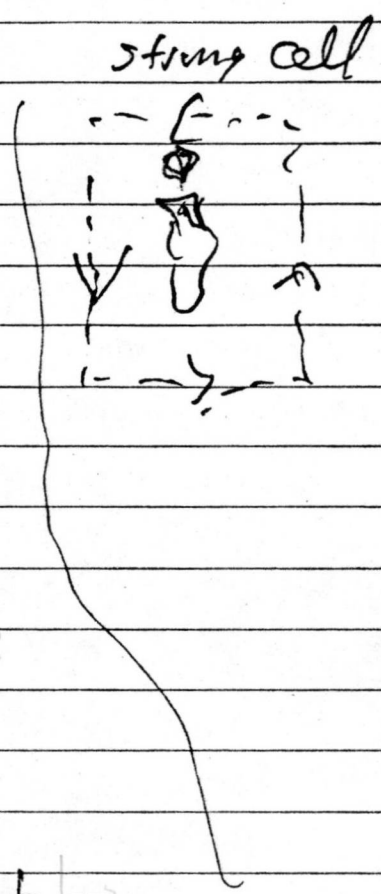
East leg W-E 202432
 End 26.32 81.5 202542

stranger cells



3

North leg	202622	⑤	②
End 26.43 81.48	202645	S→N	④
West leg	202829	E→W	②
End 26.46 81.65	203030	⑩	③ some
South leg	203118	N→S	turb
End 26.32 81.67	203248	⑦	
East leg	203328	W→E	③
End 26.30 81.49	203533	⑧	



outside turn to change tape

North leg S→N	203743	④
End 26.44 81.50	204019	
West leg E→W	204058	⑩
End leg 26.45 81.65	204245	⑤

South leg N→S	204335	⑪	turb
End 26.32 81.65	204505		
East leg W→E	204548	⑫	
End 26.3 81.47	204753		

North leg S-N ⑬ 204844

turn 335 to keep ~~past~~ distance 205030

End 205235	26.56 81.52
outside turn to change tape	
West leg E→W	205450
End leg 26.57 81.66	205718

cell still
strange
growing north

South leg

N→S (15)

205800

Wind shift
and T drop

↑ End

26.34

81.68

210114

↓ East leg

W→E (16)

210204

End

26.33

81.44

210508

North leg

S→N (17)

210612

↑ turn to 330° to squeeze through loop

End 26.54 81.51

210937

↓ West leg

E→W (18)

211000

End leg

26.54

81.71

211300

outside turn to change tape

South

N→S

(19)

211500

↑ End

26.57

81.70

211807

East leg

W→E (20)

211904

End

26.34

81.52

212118

tracking 050 to parallel line

050 leg

SW→NE

(21)

212158

End

26.58

81.19

212726

307 trk

SE→NW

(22)

212823

End

26.74

81.38

213135

230° trk

NE→SW

(23)

213330

End

26.47

81.72

214025

144° trk

NW→SE

(24)

214110

End

26.33

81.62

214326

054 trk

SW→NE

(25)

214400

End

26.49

81.33

214836

Doppler
Box

(7)

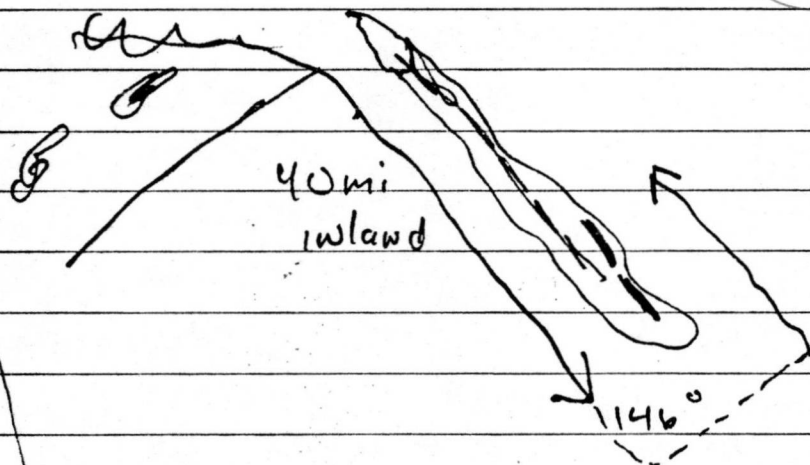
L.P. 10

long line
150° track

215015

20

NW → SE



LIP
(10)

End 26.19 81.04

End 215605

078° trk

WSW → ENE (2)

215709

End 26.25 80.76

220050

336° trk

SE-NW (28)

220133

End 26.5 80.83

220447

160° trk

NW-SE (29)

220620

End 26.30 80.71

220930

LIP
(11)