

U.S. Dept. of Commerce / NMAO / NOAA / Aircraft Operations Center

050709N1	From: KMLF	To: ?
Flt. No: 05 - 103	Blk In: 1426 Z	Time On: 1422 Z
ETD: 0600 Z	Blk Out: 0559 Z	Time Off: 0615 Z
ETE: 7 + 30	Blk Time: 8 + 27 (8.4) Hrs	Flt Time: 08 + 07 (8.1) Hrs
Sponsoring Org: ONC	Program: Surveillance	Purpose: H. Dennis 12Z mission

AOC Flight Crew

Aircraft Commander: Finke	Data System: Carpenter
Co-Pilot: Finn, Hagan	AVAPS: Tong
Navigator: 1	System Eng: Delgado
Flight Eng: Kitson 1	A A:
Flight Director: Parrish 1	A A:
Avionics:	Crew Chief: 1

Participating Scientists / Visitors

Name (Last, First)	Activity on Aircraft	Affiliation
Goldenberg, Stan	NAPS	HRD

Remarks (Storm Name, Mission ID, Recco Times, Fix Times)

Storm Name: Dennis - Sim changed the track. Now 8 hr mission.
Mission ID: 1304A Dropped 26, 24 gear, 2 no launch detect.

Penetration number and time

T.O. 29/2
1012 26/24
23/24 1016
145/6
150/10 Land

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Flight ID: _____

Time Off: Z

Time On:	Z
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	A/C - Takeoff
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Wx Station - Takeoff

A/C - Land

Wx Station - Land

Pressure

mb

mb

mb

mb

ATIS

Time

Observation

Takeoff

	Z
--	-----

Land

	z
--	-----

	Number
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Data Disposition / Date / Quality	
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Flight Level Tapes

Radar Tapes

Cloud Physics Tapes / CDs

Video Tapes

Dropsondes

Good:

Bad:

AXBT

AXCP

AXCTD

26 2500

N49RF AVAPS DropSonde Log

N49RF Project: HURR. 2005Flight ID 050709NMission: DENNIS Flight #: 4Launcher S/N: 02Status: Sys 1 ☒ Sys 2 ☒

Drop #	Sonde Serial Number	Chn. #	Time (Zulu)	Press. offset	Winds time	Operator Initials	Comments / Drop Status/ Failure Reason	GOOD ☒
1	043 845 211	1	0653	0	17	RT		☒
2	043 625 043	2	0705	0	22			☒
3	043 845 259	4	0723	.3	—		NO LAUNCH DET.	PTH
4	043 845 202	1	0723	.3	32			☒
5	043 835 064	2	0738	.7	22			☒
6	042 815 141	3	0754	.8	20			☒
7	043 835 123	1	0812	.5	12			☒
8	044 245 032	2	0833	.2	22			☒
9	043 845 104	1	0855	.5	22			☒
10	043 835 125	2	0911	.2	28			☒
11	043 845 284	1	0928	0	20			☒
12	043 835 099	3	0943	0	41			☒
13	043 835 124	2	0958	.4	54			☒
14	043 835 108	1	1014	.4	12			☒
15	042 815 270	4	1029	.5	27			☒
16	043 835 061	3	1043	.8	31			☒
17	043 845 031	1	1058	.4	36			☒
18	043 845 039	2	1123	0	—		NO LAUNCH DET	PTH
19	043 835 055	3	1123	.5	26			☒
20	043 835 121	4	1136	.4	36			☒
21	043 845 296	1	1151	.4	20			☒
22	043 835 128	2	1207	.5	18		GPS Problem LCK	☒
23	042 715 074	4	1224	.9	40			☒
24	043 845 274	1	1234	.3	21			☒
25	044 245 065	2	1245	.4	18			☒
26	043 845 102	4	1303	.3	32			☒
27								
28								
29								
30								
31								
32								
33								

22/23. on 25

chan 3 problem GPS Lock

Flight ID:

050709N1

14. Dennis' Night Mission

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Form 413-50

Time	Lat	Long	Trk	Hdg	Wind Dir	Wind Spd	T _a	T _d	Press. Alt	Geo. Alt	Sfc Press.	Press. Sfc	Dyn. Press	Remarks
0811	27.8	82.5					23	19	-30	13		1013	0.4	After BLK
065226	30 57.9	79 00	66		257	13.9	-58	-64	13217	13182		177		Drop 1 ✓
070541	30 57	77 01	~	~	267	10.4	-58	-64	13230	13194		177.3		Drop 2 ✓
072131														Drop 3 no lunch det
072302	28 59	76 05	~	~	202	5.8	-58	-65.5	13228	13190		177.4		Drop 3' ✓
073802	28 04	77 50	~	~	236	8.8	-57.8	-63.9	13234	13195		177.2		Drop 4' ✓
075243	27 06	76 12	~	~	27	2.5	-58.6	-63.1	13235	13196		117.9		Drop 4' 6" ✓
081124	25 00	76 03	~	~	341	14	-58.5	-66.9	13221	13179		177.3		Drop 4' 7" ✓
083229	23 06.7	77 00.8			314	12	-61	-65	13523	13478		169.4		Drop 8' ✓
085446	23 17	79 48	274.8	270	208	12	-62	-65	13674	13628				Drop 10 ✓
091030	23 37	81 52	261	258	195	7.6	-61	-64	13787	13741		161.8		Drop 11' ✓
091618	23 34	82 37			225	14.9	-60.9	-63.5	13787	13741		161.9		LA Dennis
092739	22 53	83 55	225	226	297	2.4	-61.5	-66.1	13796	13749		161.9		Drop 12' ✓
094257	22 39.8	85 52.5	~	~	2.2	2.9	-62	-69	13802	13755		162		Drop 13 ✓
095741	23 44	87 25	~	~	140	4.8	-64	-69	13948	13702		158.2		Drop 14 ✓
101233	25 26	88 04	~	~	226	9.7	-63.8	-70.6	13940	13895		158.1		Drop 15 ✓
102810	25 00	89 59	261	257	215	12.8	-62.8	-72.9	13931	13886		158.1		Drop 16 ✓
104338	25 00	92 00	269.5	267.5	191	2.6	-61.5	-73.2	13922	13876		157.9		Drop 17 ✓
105829	25 04	93 57	~	~	296	2.6	-62.4	-74.1	14054	14008		154		Drop 18 ✓
112148	27 55	93 56	~	~										no lunch det
112233	27 57	93 51	82	83	223	9	-63.9	-74.8						Drop 19 ✓
113611	27 30	92 02	225	225	198	10.3	-65.2	-74	14359	14314		146.8		Drop 20 ✓
115104	27 05	90 04	~	~	224	7.1	-64.2	-76.2	14368	14322		146.8		Drop 21 ✓
120608	28 55	89 59	~	~	214	8.3	-65.8	-75.4	14375	14331		146.8		Drop 22 ✓
122146	29 53	88 04	~	~	228	11.8	-65.5	-76.5	14370	14328		146.8		Drop 23 ✓
123252	28 37	88 00	180	180	224	10.4	-65	-77	14380	14336		146.6		Drop 24 ✓
124424	27 22	87 26	~	~	220	7.4	-67	-78	14385	14340		146.7		Drop 25 ✓
130328	28 18	85 10	227	221	207	12.4	-68	-77	14399	14355		146.7		Drop 26 ✓ Last
1321	27.8	82.9	151	146	126	25	5.5	7.0	3531	3370		6008		↓ on ground

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HURRICANE SYNOPTIC SURVEILLANCE MISSION PLAN: DENNIS

Prepared by the Hurricane Research Division File: current1.ftk

Aircraft: N49RF Altitude: FL410-450 Proposed takeoff: 09/0600Z

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DROP LOCATIONS

#	LAT (d m)	LON (d m)	RAD/AZM (nm/dg)	TIME (h:mm)
TD 1	31 00	79 00		0:46
TD 2	31 00	77 00		1:00
TD 3	29 00	76 00	28 00W	1:18
TD 4	29 00	78 00	78 00W	1:32
TD 5	27 00	78 00		1:48
TD 6	27 00	76 00		2:03
TD 7	25 00	75 00		2:21
TD 8	23 00	76 00		2:39
TD 9	23 00	77 56	23 04 77 00	2:53
TD 10	23 17	79 52		3:08
TD 11	23 44	82 34		3:28
TD 12	22 44	84 09		3:43
TD 13	22 39	85 56		3:56
TD 14	23 44	87 26		4:10
TD 15	25 30	88 00		4:25
TD 16	25 00	90 00		4:41
DP 17	25 00	92 00		4:56
TD 18	25 00	94 00		5:10
TD 19	28 00	94 00		5:35
DP 20	27 30	92 00		5:50
TD 21	27 00	90 00		6:05
TD 22	29 00	90 00		6:21
TD 23	30 00	88 00		6:38
TD 24	28 30	88 00		6:50
TD 25	27 16	87 26		7:01
TD 26	28 21	85 56		7:15
TD 27	30 00	86 00		7:28
TD 28	28 21	84 04		7:47

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HURRICANE SYNOPTIC SURVEILLANCE MISSION PLAN: DENNIS

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Aircraft: N49RF Altitude: FL410-450 Proposed takeoff: 09/0600Z

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TRACK DISTANCE TABLE

#	LAT (d m)	LON (d/m)	RAD/AZM (nm/dg)	LEG (nm)	TOTAL (nm)	TIME (h:mm)
0	MACDILL			0.	0.	0:00
1	31 00	79 00		264.	264.	0:46
2	31 00	77 00		103.	367.	1:00
3	29 00	76 00		131.	498.	1:18
4	29 00	78 00		105.	603.	1:32
5	27 00	78 00		120.	724.	1:48
6	27 00	76 00		107.	831.	2:03
7	25 00	75 00		132.	962.	2:21
8	23 00	76 00		132.	1095.	2:39
9	23 08	77 56		107.	1202.	2:53
10	23 17	79 52		107.	1309.	3:08
11	23 44	82 34		151.	1460.	3:28
12	22 44	84 09		106.	1566.	3:43
13	22 39	85 56		99.	1665.	3:56
14	23 44	87 26		105.	1771.	4:10
15	25 30	88 00		111.	1881.	4:25
16	25 00	90 00		113.	1994.	4:41
17	25 00	94 00		218.	2212.	5:10
18	28 00	94 00		180.	2392.	5:35
19	27 00	90 00		222.	2614.	6:05
20	29 00	90 00		120.	2734.	6:21
21	30 00	88 00		121.	2855.	6:38
22	28 30	88 00		90.	2945.	6:50
23	27 16	87 26		80.	3025.	7:01
24	28 21	85 56		103.	3128.	7:15
25	30 00	86 00		99.	3227.	7:28
26	28 21	84 04		142.	3369.	7:47
27	MACDILL			87.	3456.	8:09



**Global Hydrology and Climate
Center
GOES-E CONUS Infrared
Satellite Data**

Intellicasts' Dr. Dewpoint.

[[N.Amer. visible](#)] | [[N.Amer. infrared](#)] | [[N.Amer. water vapor](#)] | [[global infrared mosaic](#)] [[global water vapor mosaic](#)]

9 Jul 2005 04:15 UTC [2 km resolution]

Image centered at Latitude= 23.84° N Longitude= 80.76° W (X=318 Y=316)

weather.msfc.nasa.gov

**9 Jul 2005
04:15 UTC**

