

FLT ID: N991115	FM: KMCF	TO: TISX
FLT NO: 00-10	BLK IN: 0200Z	ATA: 0156Z
ETD: 1730Z	BLK OUT: 1723Z	ATD: 1737Z
ETE: 11	BLK TIME: 8:37	FLT TIME: 18:19
SPONSOR ORG: NHC	PROGRAM: HURR. SURV.	PURPOSE: H. LENNY

DAO PERSONNEL

AC MAXSON,	SYS ENG LINO
CP McLANN, FINKE	DATA SYS PRADAS-BERGUES
NAV	RADAR
FE KELSON ROTTEVEEL	BT/ODW McMILLAN
RADIO	CLD PHYS
FD DAMIANO	DOPPLER

PARTICIPATING SCIENTIST/VISITORS/DAO

LAST, FIRST NAME	ACTIVITY ON A/C	AFFILIATION
GOLDENBERG	HAPS	NRD
KAPLAN	HAPS	NRD

17 PROPOSED/ACTUAL MISSION/REMARKS (RECCO, FIXES, STORM, PENET, NHOP #)

1656Z DPTa 5-6 difference after T/O until 1805Z

BAL DPT CAT 2050Z -

1830Z-1836Z

2230Z S of STORM

2248Z LGTN

2238-2254Z

Sean White called @ 2210Z to give

WX update for TISX

2300Z TT4 check

TT PLOT

U.S. DEPT. COMM./NOAA/OAO - DATA SECTION WORK FORM NO.2 DROWF2 FILE

FLT ID: *N991115* TIME OFF: *1737Z* TIME ON: *0156Z*

	A/C T/O	WX STN	A/C LAND	WX STN
PRESSURE	<i>1010.6</i>	<i>29.88</i>	0156 <i>1005.6</i>	<i>29.76</i>

NO DATA DISPOSITION/DATE/QUALITY

1/SEC FLT LVL TAPES

FAST FLT LVL TAPES

RADAR TAPES

DOPPLER TAPES

ODW CASSETTES

HARD COPIES

AXBT

AXCP

ODW *GPS*

23

1 bad; 21 good; 1 no wind; 22 OBS XMET

PHOTOGRAPHY

	FWD	LS	RS	VERT
ON				
OFF				
RATE				

REMARKS

0047Z

N991115

DPR

2056
1237
819

TIME	LAT	LOU	TRK	HD	WD	WS	TA	TD	PA	GA	PS			PQ
181500	2424	7946	142	149	252	29	-61.0	-66.1	12563	13016	175.6	C	LR	87.6
182415	2331	7856	108	109	267	26	-60.4	-67.0	12565	13028	175.8	(65)	DROP	90.5
184143	2330	7620	90	91	263	28	-59.8	-70.2	12559	13034	175.7	(23)	DROP	90.2
185917	2330	7340	90	91	262	32	-59.5	-70.0	12579	13014	175.3	(30)	DROP	89.3
191640	2324	7102	150	160	247	35	-58.5	-71.0	12554	13024	176.0	(77)	DROP	89.1
193813	2103	7105	235	234	221	43	-58.9	-67.4	12554	13064	175.9	(55)	DROP	88.0
200320	2045	7348	179	182	195	29	-59.0	-66.2	12555	13075	175.8	(55)	DROP	89.0
201643	1920	7354	239	234	196	28	-59.0	-66.9	12554	13092	176.0	(55)	DROP	89.3
203707	1918	7624	270	262	195	31	-64.4	-69.9	13132	13669	159.7	(23)	DROP	—
205833	1911	7859	203	202	201	17	-63.1	-70.8	13136	13671	159.6	(67)	DROP	80.1
211422	1722	7900	180	178	163	15	-62.1	-70.3	13132	13682	159.7	(58)	DROP	80.6
213127	1526	7900	180	176	131	20	-65.4	-70.2	13138	13695	159.5	(64)	DROP	81.7
213900	1434	7900	180	177	116	16	-65.9	-68.9	13138	13696	159.6	C	TOPS	86.8
214755	1332	7855	123	119	94	21	-64.8	-68.3	13135	13693	159.6	(23)	DROP	79.9
221736	1330	7520	90	90	248	2	-65.3	-72.3	13132	13699	159.7	(24)	DROP	79.8
222300	1330	7439	90	89	314	6	-64.7	-66.9	13128	13699	159.7	IN	CLO	78.8
223300	1330	7323	90	89	291	6	-65.2	-64.7	13133	13708	159.3	C	TOPS	77.4
224625	1327	7140	97	95	328	14	-65.7	-64.5	13130	13708	159.8	(1)	DROP	71.4
231619	1336	6802	30	24	319	12	-70.7	-70.3	13705	14276	144.9	(10)	DROP	74.1
233701	1600	6800	0	353	280	25	-71.7	-71.9	13704	14271	144.9	No W	DROP	73.1
233806	1607	6800	0	353	279	26	-71.8	-71.9	13704	14272	144.9	No W	DROP	73.1
234039	1626	6800	0	353	274	29	-72.0	-71.8	13703	14265	144.9	(56)	DROP	72.9
235749	1830	6800	0	350	264	37	-71.6	-72.2	13708	14247	144.8	(28)	DROP	72.9
001832	2100	6800	0	351	270	35	-69.3	-72.8	13703	14235	144.9	(49)	DROP	72.9
003928	2328	6753	62	59	265	34	-70.0	-72.4	13708	14209	144.9	(55)	DROP	72.3
005828	2324	6502	151	161	267	39	-70.0	-71.6	13691	14202	145.0	(35)	DROP	72.3
011843	2100	6500	178	185	273	30	-69.0	-72.7	13702	14251	145.0	(36)	DROP	73.5

G4 Hurricane Surveillance

N991115 H. Lenny (Central Caribbean)

<u>DATA TYPE</u>	<u>SENSOR or OPTION</u>
INE	VEW_PITR, VNS_PITR
Accelerometer	ACINS_PITR
Temperature Probe	AT2
Altitude (for vertical wind)	PALT
Static Pressure	PS1M
Dynamic Pressure	QC1M
Dewpoint Probe	DPLC

Notes:

There were no time gaps.

Both dewpoint sensors were balanced from 1830Z - 1836Z.

No dynamic corrections were applied to the measured static and dynamic pressures. Thus wind direction and wind speed may not be representative of actual flight level conditions.

	<u>Takeoff</u>	<u>Landing</u>
Aircraft static pressure	1010.6mb	1005.6mb
Corrected tower pressure	1011.3mb	1007.3mb

Flight Meteorologist: A. Barry Damiano, (813) 828-3310 ext. 3073

N49RF AVAPS DropSonde Log

N49RF Project: Hurricane

Flight ID 991115N

Mission: LENNY 1

Flight #: 26

System Status: Good

Drop #	Sonde Serial Number	Chn. #	Time (Zulu)	Press. offset	Winds time	Operator Initials	Comments / Drop Status / Failure Reason	GOOD ✓/B
1	992455327	1	1824	+4	65	STM	Good Drop / Late Wind	✓
2	991435025	2	184146	0	25	STM	Good Drop	✓
3	991435021	1	185921	+6	30	STM	HAPS Rebooted / Resend	✓
4	991435023	2	1918	+2	60	STM	Good Drop / Late Wind	✓
5	991435024	1	1938	+5	25	STM	Good Drop	✓
6	992515738	1	2003	+5	15	STM	Good Drop	✓
7	992455313	2	2016	+8	25	STM	Good Drop	✓
8	991435004	1	2037	+4	23	DTL		✓
9	990435420	1	2058	.6	57	DTL		✓
10	991435018	2	2114	-	44	DTL		✓
11	991435020	1	2131	.4	54	DTL		✓
12	992525858	2	2147	.5	22	DTL	Lost Telemetry - Ended Early	✓
13	991535110	2	2217	-	24	DTL		✓
14	990415005	2	2246	-	12	DTL	Good Drop	✓
15	990435510	2	2316	+5	11	STM	Good Drop	✓
16	990415203	2	2337	+5	183	STM	Late Winds	
17	991435046	4	2338	+5	∞	STM	No Winds / No Launch Det.	
18	990935166	1	2340	0	56	STM	Good Drop	✓
19	990845027	2	2357	+2	28	STM	Good Drop	✓
20	992525862	4	0018	+1.6	49	STM	Good Drop	✓
21	991845152	2	0039	+5	35	STM	Good Drop	✓
22	991845366	4	0058	+3	35	STM	Good Drop	✓
23	991515234	2	0118	+2	36	STM	Good Drop	✓
24								
25								
26								
27								
28								
29								
30								
31								
32								
33								

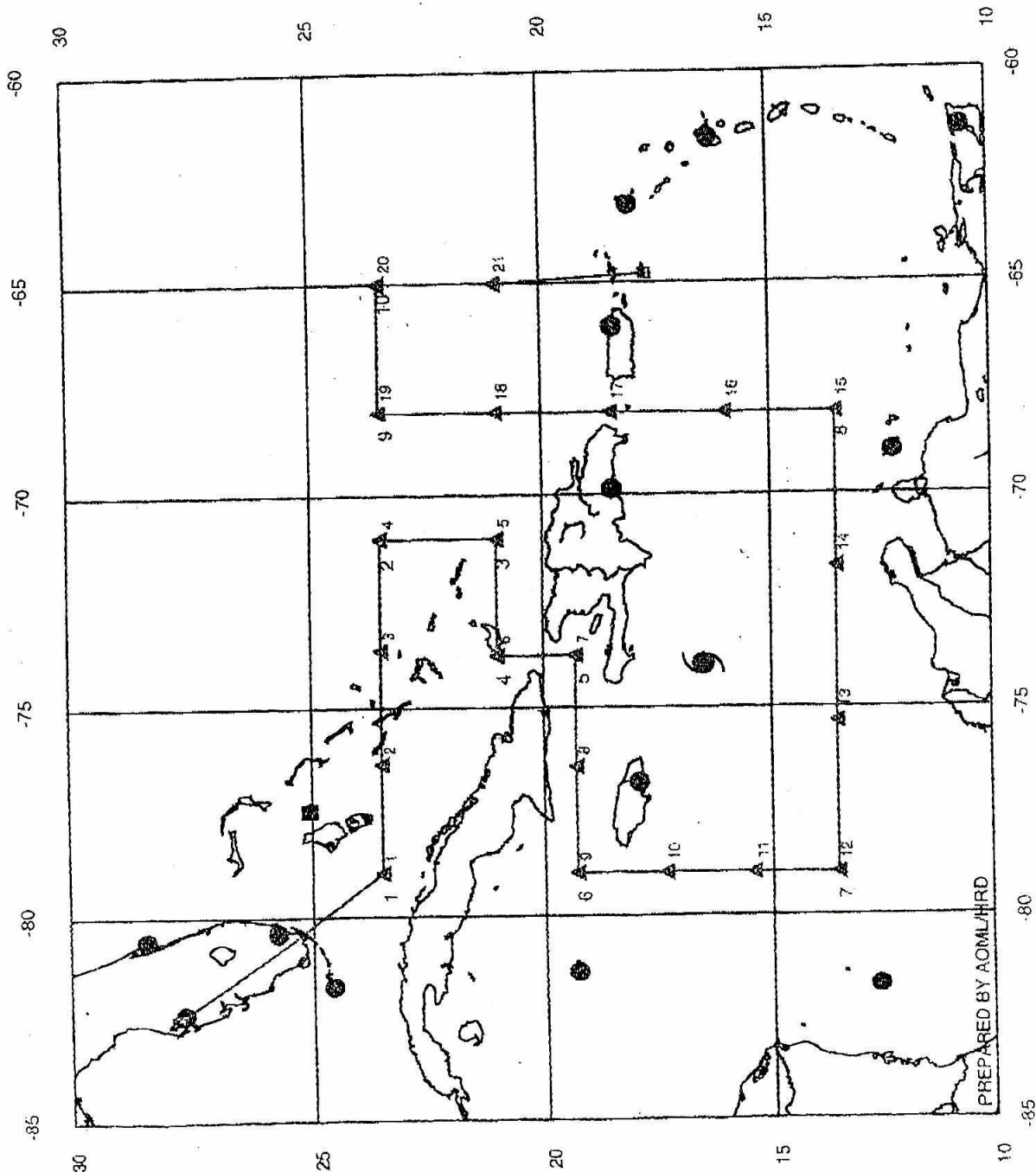
FLIGHT TRACKS LENNY/SYN

991115np1.ftk

RAWINSONDES 9809

- Regular
- 12Z only
- 00Z only
- Infrequent
- Infrequent - 00Z
- Infrequent - 12Z

▲ DROP LOCATIONS



PREPARED BY AOML/HRD

FROM :

FAX NO. : 3053614402

Nov. 14 1999 05:35PM P4

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HURRICANE SYNOPTIC SURVEILLANCE MISSION PLAN: LENNY/SYN

Prepared by the Hurricane Research Division at 04:08:29 PM on 11/14/99.
File: 991115np1.ftk

Aircraft: N49RF Altitude: FL410-450 Proposed takeoff: 15/1730Z

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DROP LOCATIONS

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#	LAT (d m)	LON (d m)	RAD/AZM (nm/dg)	TIME (h:mm)
1	23 30	79 00		0:54
2	23 30	76 20		1:14
3	23 30	73 40		1:34
4	23 30	71 00		1:54
5	21 00	71 00		2:14
6	21 00	73 48		2:36
7	19 18	73 48		2:49
8	19 18	76 24		3:09
9	19 18	79 00		3:29
10	17 22	79 00		3:45
11	15 26	79 00		4:01
12	13 30	79 00		4:17
13	13 30	75 20		4:46
14	13 30	71 40		5:15
15	13 30	68 00		5:44
16	16 00	68 00		6:04
17	18 30	68 00		6:25
18	21 00	68 00		6:45
19	23 30	68 00		7:06
20	23 30	65 00		7:28
21	21 00	65 00		7:48

FROM :

FAX NO. : 3053614402

Nov. 14 1999 05:34PM P3

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HURRICANE SYNOPTIC SURVEILLANCE MISSION PLAN: LENNY/SYN

Prepared by the Hurricane Research Division at 04:08:29 PM on 11/14/99.
File: 991115npl.ftk

Aircraft: N49RF Altitude: FL410-450 Proposed takeoff: 15/1730Z

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TRACK DISTANCE TABLE

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#	LAT (d m)	LON (d/m)	RAD/AZM (nm/dg)	LEG (nm)	TOTAL (nm)	TIME (h:mm)
0	MACDILL			0.	0.	0:00
1	23 30	79 00		324.	324.	0:54
2	23 30	71 00		441.	764.	1:54
3	21 00	71 00		150.	915.	2:14
4	21 00	73 48		157.	1072.	2:36
5	19 18	73 48		102.	1174.	2:49
6	19 18	79 00		295.	1469.	3:29
7	13 30	79 00		349.	1818.	4:17
8	13 30	68 00		643.	2461.	5:44
9	23 30	68 00		601.	3062.	7:06
10	23 30	65 00		165.	3227.	7:28
11	ST CROIX			349.	3576.	8:25

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NOAA/AOC/SED N49RF Flight Performance log

N49RF Project: Hurricane 99 Project No. 430 Flight No. 26 Flight ID: 991115NSED Crew: Lino, Pradas, McMillanMission: LENNY 1Pre-Flight: 1630 ZZ Take-Off: 1737Z Landing: 0155

Z

SYSTEM				Pre-Flight Check	In-Flight	Post-Flight Check	
N A V	IRS #1			STM			
	IRS #2			STM			
	IRS #3			STM			
	GPS Honeywell #1			STM			
	GPS Honeywell #2			STM			
	GPS Collins			STM			Off? ☒
Nose Radar -Collins				JCPB			Off? ☒
T E M P		Time	Temp °C			Time	Temp °C
	Temp #1	170605	25.553	STM		0158	29.28
	Temp #2	170605	25.034	↑			28.17
	Temp #3	170605	24.712				29.11
	Temp #4	170605	25.683	↓			30.89
	DP Left	170734	14.245		Cal. Time:		22.45
	DP Right	170734	14.256	STM	Cal. Time:	↓	25.52
P R E S S	Attack Angle (ADCAOA)			STM			
	Slip Angle (BPx/DxPx)			STM			
	Differential (PQ1/PQ2)			STM			
	Absolute (PS1/PS2)			JCPB			
	Check Radome Press. Lines ☐			Date:			
S Y S T E M S	DOWN PRT-5 ⇒ Open? ☐			Not USED		Closed? ☒	
	MADS (WINDS/DISCWIN)			✓ JCPB		# DATs: 1	
	MADS Printer ⇒ Paper? ☒			JCPB		Printer Power off? ☒	
	MADS Cal. Date:			QC time: 1719		QC time:	
	WINDS ⇒ NET BCAST ☒			JCPB			
	HAPS System / Time set? ☒			✓ JCPB		# Msg.: 22 # Fail: 11	
	AVAPS System			✓ JCPB			
	K2 Printer ⇒ Paper? ☒			JCPB		Printer Power off? ☒	
Exterior Walk Around ☒							
Inspect DropSonde Chute Bolts							
M I S C	Satcom (Flight Phone) ☒					Off CB? ☒	
	Call COMSAT? ☐ (*292#)						
	FCU/UPS/CB			CB's Checked? ☒		UPS off? ☒	
	AVAPS Sondes			# On Board: 125	# Dropped: 23	# Good: 21	
	AXBT			# On Board: 0	# Dropped:	# Good:	
	APN-232 Altimeter			✓ JCPB			
Modem Power On? ☒			✓ JCPB				

1	DAT Tape #1	On: 1718	Type: V60	Off: 0200
2	DAT Tape #2	On:	Type:	Off:
Comments:				

07/26/99 JCPB

NOAA/AOC/SED N49RF Flight Performance log

N49RF Project: Hurr. 99 Project No. 430 Flight No. 27 Flight ID: 991116N
 SED Crew: Prados, McMillan, Lino Mission: Henry 2
 Pre-Flight: 1630 Z Take-Off: _____ Z Landing: _____ Z

SYSTEM			Pre-Flight Check	In-Flight	Post-Flight Check	
NAV	IRS #1		✓ <u>P</u>			
	IRS #2		✓ <u>P</u>			
	IRS #3		✓ <u>P</u>			
	GPS Honeywell #1		✓ <u>P</u>			
	GPS Honeywell #2		✓ <u>P</u>			
	GPS Collins		✓ <u>P</u>		Off? ☒	
Nose Radar -Collins					Off? ☒	
TEMP	Time	Temp °C			Time	Temp °C
	Temp #1	<u>1200</u>	<u>31.5</u>	✓ <u>P</u>		
	Temp #2		<u>30.5</u>	✓ <u>P</u>		
	Temp #3		<u>30.3</u>	✓ <u>P</u>		
	Temp #4		<u>31.3</u>	✓ <u>P</u>		
	DP Left		<u>22.0</u>	✓ <u>P</u>	Cal. Time:	
	DP Right		<u>24.5</u>	✓ <u>P</u>	Cal. Time:	
PER	Attack Angle (ADCAOA)		✓ <u>P</u>			
	Slip Angle (BPx/DxPx)		✓ <u>P</u>			
	Differential (PQ1/PQ2)		✓ <u>P</u>			
	Absolute (PS1/PS2)		✓ <u>P</u>			
	Check Radome Press. Lines ☐		Date:			
SYSTEM	DOWN PRT-5 ⇒ Open? ☐		Not USED		Closed? ☐	
	MADS (WINDS/DISCWIN)		✓ <u>P</u>		# DATs: <u>2</u>	
	MADS Printer ⇒ Paper? ☐		JCPB <u>1</u>		Printer Power off? ☒	
	MADS Cal. Date:		QC time: <u>1723</u>		QC time: <u>0211</u>	
	WINDS ⇒ NET BCAST ☒		✓ <u>P</u>			
	HAPS System / Time set? ☒		✓ JCPB		# Msg.: <u>27</u> # Fail: <u>17</u>	
	AVAPS System		✓ SM			
	K2 Printer ⇒ Paper? ☒		✓ JCPB		Printer Power off? ☒	
	Exterior Walk Around ☒		✓ JCPB			
	Inspect DropSonde Chute Bolts		✓ JCPB			
MISC	Satcom (Flight Phone) ☒		✓ <u>P</u>		Off CB? ☒	
	Call COMSAT? ☒ (*292#)		✓ <u>P</u>			
	FCU/UPS/CB		CB's Checked? ☒ <u>P</u>		UPS off? ☐	
	AVAPS Sondes		# On Board: <u>102</u>	# Dropped: <u>27</u>	# Good: <u>24</u>	
	AXBT		# On Board: <u>—</u>	# Dropped:	# Good:	
	APN-232 Altimeter		✓ <u>P</u>			
	Modem Power On? ☒		JCPB			

1	DAT Tape #1	On: <u>1722</u> <u>Z</u>	Type:	Off: <u>0104</u>
2	DAT Tape #2	On: <u>0109</u> <u>Z</u>	Type:	Off: <u>0211</u>
Comments: <u>DAT Drive 0 missing button cover.</u>				

