

U.S. DEPT. COMM./NOAA/OAO - DATA SECTION WORK FORM NO. 1 OAOWF1 FILE

FLT ID: 980121N	FM: KANL	TO: KANL
FLT NO: 98-012	BLK IN: 0419Z	ATA: 0410Z
ETD: 2000Z	BLK OUT: 1954Z	ATD: 2007Z
ETE: 0345Z	BLK TIME: 8.25 8.4	FLT TIME: 8:03 8.1
SPONSOR ORG: NOAA/NGEP	PROGRAM: NORPEX	PURPOSE: #3

OAO PERSONNEL

RC MAVER MCCANN, B ✓	SYS ENG GOLDSTEIN, A ✓
CP FINKE, M ✓ / PLAYER, G ✓	DATA SYS SMITH, J ✓
NAV	RADAR
FE KITSON, G	BT/ODW HORN BROOK, C ✓
RADIO	CLD PHYS
FD C2424K, S ✓	DOPPLER

PARTICIPATING SCIENTIST/VISITORS/OAO

LAST, FIRST NAME	ACTIVITY ON A/C	AFFILIATION
SHAPIRO, M ✓	P.I.	ETL
FRANKLIN, J ✓	HAPS	HRD
GALL, B ✓		NGAR
BLACK, M ✓	HAPS	HRD
GOLDENBERG, S ✓	HAPS	HRD

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

27 GPS SENT
COR FOR 24

U.S. DEPT. COMM./NOAA/OAO - DATA SECTION WORK FORM NO.2 OAOWF2

FLT ID: 980121N

TIME OFF: 2007Z

TIME ON: 0410Z

	A/C T/O	WX STN	A/C LAND	WX STN
PRESSURE	1011.6	29.92	1009.5	29.84

NO DATA DISPOSITION/DATE/QUALITY

1/SEC FLT LVL TAPES		
FAST FLT LVL TAPES		
RADAR TAPES		
DOPPLER TAPES		
DDW CASSETTES		
HARD COPIES		
AXBT		
AXCP		
DDW		
GPS	29	

PHOTOGRAPHY

	FWD	LS	RS	VERT
ON				
OFF				
RATE				

REMARKS

980121N

TIME	LAT	LONG	TK	HD	TA	TD	WD	WS	PA	CA	PS	REMARKS
2011												CLOUD TOP 7K
204445	24 39	156 00	16	03	-56.4	-65.5	306	44.1	12561	13078	175.8	LEVEL 41K
211000	27 26	154 48	27	11	-56.2	-68.1	294	57.2	12557	12987	175.8	DROP 1
215458	32 10	151 50	27	12	-50.9	-65.9	278	57.6	12559	12783	175.8	DROP 3
220518	33 46	150 51	28	12	-50.5	-63.9	279	60.9	12560	12702	175.8	DROP 4 EARLY
221253	34 39	150 15	32	17	-50.5	-64.5	278	57.4	12559	12449	175.8	DROP 4 ADD
223317	36 20	151 30	311	296	-50.8	-65.8	262	62.6	12553	12541	175.9	DROP 5
225848	38 00	154 04	313	301	-48.8	-64.6	256	54.1	12553	12402	176.0	DROP 6
230754	38 41	155 06	312	301	-48.2	-63.8	257	47.1	12552	12346	176.0	DROP 6 ADD
231846	39 31	156 11	312	302	-47.7	-62.3	247	36.3	12558	12278	175.9	DROP 7
233000	40 21	157 25	311	300	-48.1	-64.5	246	42.3	13138	12851	159.1	DROP 7 ADD 43K
23405												SLOW FALL SLOW
234052	41 10	158 40	310	301	-47.8	-64.0	245	36.7	13139	12806	159.5	DROP 8
235339	41 54	160 14	240	238	-48.5	-64.4	240	33.8	13136	12746	159.6	DROP 9
000354	41 20	161 30	231	231	-48.6	-64.2	239	30.4	13136	12757	159.6	DROP 10
001559	40 29	162 53	241	240	-46.1	-63.0	243	36.5	13134	12759	159.7	DROP 11
002835	39 40	164 10	208	214	-46.2	-63.1	241	47.2	13136	12772	159.7	DROP 12
004104	39 30	165 00	208	215	-46.9	-63.6	258	45.8	13134	12815	159.7	DROP 13
005134	37 30	165 40	205	216	-46.8	-63.4	261	58.3	13136	12868	159.6	DROP 14
010358	36 20	166 20	208	222	-47.6	-63.6	266	71.7	13137	12931	159.6	DROP 15
011954	34 57	167 15	207	223	-50.4	-64.7	262	85.2	13133	13016	159.7	DROP 16
013128	34 00	167 50	201	218	-53.4	-66.4	259	92.2	13130	13086	159.7	DROP 17
014435	32 49	168 20	210	227	-56.6	-68.3	265	89.9	13134	13197	159.7	DROP 18 NO WIND
014655	32 38	168 28	210	228	-57.0	-68.5	267	90.3	13132	13203	159.7	DROP 18 REA.
015643	31 50	169 00	206	224	-56.5	-68.8	271	84.2	13134	13284	159.7	DROP 19
020951	30 40	169 40	204	221	-60.0	-68.7	261	84.9	13138	13371	159.5	DROP 20
021846	29 51	169 49	133	145	-61.0	-70.7	267	71.1	13138	13431	159.6	DROP 21
022528	29 10	169 00	136	146	-60.6	-70.4	268	64.1	13135	13482	159.6	DROP 22
023200												LEVEL 45K
024332	27 20	167 00	137	145	-64.9	-72.8	271	49.0	13703	14165	145.0	DROP 23 LAST WIND
024844	26 48	166 27	138	144	-64.8	-72.7	274	44.5	13704	14179	144.9	DROP 23 REA.
030131	25 30	165 10	137	143	-64.4	-72.1	265	36.9	13703	14232	145.8	DROP 24
031842	23 50	163 30	140	146	-63.8	-71.6	250	29.3	13707	14278	144.9	DROP 25
0341												DESCENT

NORPEX

Flight #4: 980121N

DATA TYPE

SENSOR or OPTION

INE

Accelerometer

Temperature Probe

Altitude (for vertical wind)

Static Pressure

Dynamic Pressure

Dewpoint Probe

VEW_PITR

ACINS_PITR

AT2

GPGALT

PS1M

QC1M

DPLC

Notes:

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.

Dropsonde data and event switch information ARE NOT on the tape.

BP1 has upward offset (~0.4 mb) 2102:30-2103:50, 2136:30-2138:10, 2141:20-2144:00, and 2147:10-2159:00.

GPGALT had two spikes 0028:50-0029:15 and 0257:00-0257:15.

	<u>Takeoff</u>	<u>Landing</u>
Aircraft static pressure	1011.6	1013.2
Corrected tower pressure	1009.5	1010.5

Flight Meteorologist: Stan Czyzyk, (813) 828-3310 ext. 3086

U.S. Department of Commerce
National Oceanic and Atmospheric Administration
(NOAA)

Aircraft Operations Center
MacDill Air Force Base,
Florida 33608

Mission ID issued from CARCAH

NOAA9 NORPEX 10

Takeoff (Date/Time): 21/2000Z

Aircraft Type Gulfstream IV-SP
Call Sign NOAA 49
Tail Number N49RF
Altitude Block F410-F450
Airspeed ~Mach 0.72-0.76 450 KTAS (Average)

Proposed Drop Points

Locations for dropsonde releases are indicated by a drop number

Drop Number	Location: LAT(N)/LONG(W) (degrees and minutes)	Dist. (nm)	ETE	ETA Date/Time(Zulu)
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	Honolulu (PHNL)	---	----	21/2000 Takeoff
	26 02/155 35 (ZURIC)	300	0+45	21/2045

✓1	27 40/154 40	110	0+15	21/2100 2110Z
✓2	29 50/153 20	150	0+20	21/2120
✓3	32 10/151 50	150	0+20	21/2140 2152Z
✓4	34 20/150 30	150	0+20	21/2200 2205Z, 2213Z
✓5	36 20/151 30	150	0+20	21/2220 2233Z
✓6	38 03/150 50	150	0+20	21/2240
✓7	39 30/156 10	150	0+20	21/2300
✓8	41 10/158 40	150	0+20	21/2320
✓9	42 00/160 00	75	0+10	21/2330
✓10	41 20/161 30	75	0+10	21/2340
✓11	40 30/162 50	75	0+10	21/2350
✓12	39 40/164 10	75	0+10	22/0000

0205Z

3 min to 90K
below 30K
22 m/s

2233Z
2256Z

0104Z

38W

0119Z

40 W HEATER ON

2330Z

40 20N
157 25W

0015Z

✓13	38 30/165 00	75	0+10	22/0010
✓14	37 30/165 40	75	0+10	22/0020
✓15	36 20/165 20 166 20	75	0+10	22/0030
✓16	35 20/167 00	75	0+10	22/0040
✓17	34 00/167 50	75	0+10	22/0050
✓18	32 50/168 20	75	0+10	22/0100
✓19	31 50/169 00	75	0+10	22/0110
✓20	30 40/169 40	75	0+10	22/0120
✓21	30 00/170 00	75	0+10	22/0130
✓22	29 10/169 00	75	0+10	22/0140
✓23	27 20/167 00	150	0+20	22/0200
24	25 30/165 10	150	0+20	22/0220
✓25	23 50/163 30	150	0+20	22/0240
	22 48/162 37 (CANON)	75	0+10	22/0250
	Honolulu (PHNL)	300	0+50	22/0340 Land

POC: LCDR Sean White, NOAA

Cellular Phone:	813/833-3275	<u>Primary</u>
Hotel:	808/923-3111 Room#1049	<u>Secondary</u>
Airport #	800/821-3122 ext134	

59 m

1 SONDE PIN WAS LEFT IN DROINED BATTERY

'Std-Flight-Track' (winds@eiger) Proj. 415 Flt 4 Jan-22-98 04:
19:56:24 to 04:11:58

