

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

FLT ID: 970227N	FM: SNN	TO: SNN
FLT NO: 97-05	BLK IN: 1617Z	ATA: 1613Z
ETD: 0930	DLK OUT: 0950Z	RTD: 0958Z
ETE:	BLK TIME: 6:27 - 6:5	FLT TIME: 6:15 - 6:3
SPONSOR ORG:	PROGRAM: FASTEX	PURPOSE: TRIPLE POINT

OAO PERSONNEL

AC PHILIPPSBORN, R	SYS ENG PRADAS-BERGUES, J
CP FINKE, M	DATA SYS COLOSTEIN, A
NAV	RADAR OFFUTT, D
FE MEREK, M	BT/ODW
RADIO	CLD PHYS
FD CZYZK, S.	DOPPLER

PARTICIPATING SCIENTIST/VISITORS/OAO

LAST, FIRST NAME	ACTIVITY ON A/C	AFFILIATION
LAMASS, J.P.	SCIENTIST	
SHAPIRO, M		
BARTELS, D		
MASLART, P		
BARKER, D	PHOTO.	BBC
GAMMIE, F	PHOTO	

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

U.S. DEPT. COMM./NOAA/OAD - DATA SECTION WORK FORM NO.2 OADWF2

FLT ID: 970227N

TIME OFF: 0958Z

TIME ON: 1613Z

	A/C T/O	WX STN	A/C LAND	WX STN
PRESSURE	1016.9	1016.0	1013.0	1012

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		
6PS	56	

PHOTOGRAPHY

	FWD	LS	RS	VERT
ON				
OFF				
RATE				

REMARKS

REMARKS

970227N

TIME	LAT	CON	TK	HD	TA	TD	WD	WS	PA	CA	PS	PR	REMARKS
101000	52 72	10 24	240	248	-31.8	-37.7	249	35	7331	7357	390.8	140.7	24K
102145	52 00	12 01	250	256	-30.9	-38.2	234	42	7333	7344	390.5	140.4	DRAP
103050	52 01	13 25	259	260	-31.2	-46.4	220	44	7333	7321	390.5	141.7	W DRAP
103253	52 01	13 44	259	259	-31.4	-44.5	220	44	7333	7315	390.6	141.8	DRAP
103924	52 00	14 45	258	258	-32.3	-40.3	219	46	7334	7274	390.5	141.8	DRAP
104915	52 01	16 08	250	258	-37.2	-39.7	211	51	7944	7837	357.7	141.3	26K DRAP
105702	52 01	17 31	259	256	-37.0	-42.4	214	57	7945	7890	357.7	141.0	DRAP
110637	52 00	19 00	259	256	-37.7	-40.8	211	61	7944	7743	357.7	140.1	DRAP
111309	52 00	20 00	259	254	-38.7	-42.3	212	66	7942	7692	357.7	139.9	DRAP
111955	52 14	20 47	31	31	-37.6	-43.8	213	65	7946	7647	357.6	140.7	DRAP
112732	53 13	19 47	30	30	-38.6	-42.2	212	63	7943	7644	357.8	141.2	DRAP
113046	53 32	19 22	30	30	-38.5	-43.7	213	63	7943	7648	357.7	140.5	P DRAP
113430	54 08	19 00	0	348	-38.6	-43.5	216	64	7941	7642	357.8	140.9	DRAP
114124	55 07	19 00	0	348	-39.0	-44.3	218	65	7942	7601	357.8	141.1	DRAP
114613	55 48	19 00	0	349	-39.2	-44.3	216	64	7943	7679	357.8	141.2	DRAP
115050	56 27	19 00	0	349	-40.5	-43.0	214	66	7943	7555	357.8	142.6	DRAP
115527	57 07	19 00	0	349	-40.2	-42.8	214	66	7942	7520	357.8	140.9	DRAP
120009	57 47	19 00	0	349	-39.8	-44.2	212	65	7943	7504	357.8	140.2	DRAP
120452	58 28	19 00	0	349	-40.0	-43.9	212	68	7942	7479	357.9	140.9	DRAP
120947	59 10	19 00	0	348	-40.2	-42.4	213	67	7941	7456	357.9	139.9	DRAP
121412	59 50	19 00	0	351	-40.7	-47.6	202	63	7945	7428	357.8	141.7	DRAP
121852	60 29	19 00	0	352	-41.6	-46.2	202	58	7942	7420	357.8	138.2	DRAP
122326	61 08	19 00	0	353	-44.0	-46.5	202	50	7952	7429	357.2	139.9	DRAP
122817	61 48	19 00	0	354	-45.6	-48.6	202	43	7951	7416	357.3	140.7	DRAP
123410	62 20	19 27	220	223	-46.4	-48.9	198	40	7953	7416	357.2	142.4	DRAP
123876	62 04	20 07	220	221	-46.7	-50.8	192	45	7954	7395	357.3	141.3	DRAP
124521	61 39	21 07	219	219	-46.8	-50.6	185	46	7953	7348	357.3	139.2	DRAP
125229	61 11	22 11	218	219	-48.8	-51.7	186	35	7953	7305	357.3	139.8	DRAP
125822	60 47	23 04	218	219	-50.1	-53.9	181	29	7952	7279	357.4	138.2	DRAP
130505	60 18	24 04	217	219	-49.1	-62.0	184	30	7952	7245	357.2	139.3	DRAP
131200	59 49	25 04	214	218	-49.8	-61.7	189	26	7939	7196	357.8	143.1	DRAP
132552	59 23	25 53	215	219	-47.4	-60.2	194	28	7940	7158	357.9	141.5	DRAP
133213	58 55	26 44	214	218	-47.4	-60.3	194	26	7939	7142	357.9	139.3	W DRAP
133529	58 42	27 11	214	220	-47.8	-60.6	206	24	7939	7135	357.9	140.2	DRAP
133835	58 27	27 36	214	219	-48.9	-60.8	200	24	7939	7133	357.9	139.5	DRAP
134577	57 56	28 28	213	218	-49.6	-62.2	195	19	7942	7119	357.9	141.1	DRAP
135129	57 27	29 17	213	218	-48.4	-61.9	189	18	7942	7097	357.9	141.4	DRAP
135749	56 54	29 43	124	130	-47.1	-60.6	209	15	7942	7099	357.9	141.2	DRAP
140230	56 31	28 55	129	128	-46.4	-59.8	210	18	7939	7105	358.0	139.9	DRAP
140815	56 14	27 57	120	132	-45.0	-58.5	211	29	7939	7130	357.9	141.0	DRAP
141422	55 50	26 58	121	133	-45.5	-58.1	212	31	7937	7157	358.0	138.8	DRAP
142127	55 22	25 51	122	135	-44.6	-58.1	210	36	7938	7202	358.2	141.2	DRAP
142631	55 02	25 05	122	137	-44.8	-57.8	210	41	7938	7239	358.0	142.2	DRAP
142841	54 54	24 45	123	139	-44.5	-57.9	209	43	7935	7258	357.9	139.2	DRAP
143351	54 33	24 20	123	140	-44.5	-58.0	207	48	7939	7291	358.0	143.3	DRAP
143920	54 12	23 15	124	143	-44.2	-57.8	201	59	7937	7327	358.1	140.7	DRAP
144601	53 47	22 23	124	146	-44.0	-57.5	197	72	7936	7429	358.1	140.3	DRAP
145322	53 21	21 32	125	149	-41.9	-56.6	193	83	7935	7482	358.0	139.1	DRAP
150105	52 55	20 01	126	148	-41.1	-44.9	192	80	7936	7485	358.2	140.0	DRAP
150043	52 28	19 51	126	149	-41.2	-44.2	198	75	7937	7547	358.3	141.1	DRAP
151644	52 00	18 50	86	103	-40.5	-43.0	202	66	7937	7637	358.2	139.6	DRAP
152132	52 01	17 51	86	103	-40.2	-41.6	208	64	7933	7668	358.2	140.9	DRAP

970227N

TIME	LAT	LONG	TK	HW	TA	TD	WD	WS	PA	GA	PS	PD	REMARKS
152707	52 01	16 41	87	107	-38.4	-41.5	208	61	7933	7716	358.2	139.1	DRIP
15353	52 00	15 20	88	104	-37.3	-42.2	209	58	7934	7764	358.3	140.5	DRIP
15388	52 06	14 19	84	87	-36.8	-40.3	209	54	7932	7806	358.3	139.2	DRIP
154348	52 16	13 13	74	86	-37.0	-39.7	213	52	7933	7859	358.3	140.7	DRIP
154930	56 26	11 59	79	86	-36.8	-38.7	215	50	7932	7875	358.3	140.3	W DRIP

FASTEX

Flight #19 N970227

DATA TYPE

SENSOR or OPTION

INE	VEW_PITR
Accelerometer	ACINS_PITR
Temperature Probe	AT1
Altitude (for vertical wind)	PALT
Static Pressure	PS1M
Dynamic Pressure	QC1M
Dewpoint Probe	DPRC

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.

Downward spikes in radar altimeter are a result of overflying land.

The radar altimeter had a spike at takeoff (0955:00-0958:03) and landing (1612:50-1616:00). Another spike was noted from 1117:10-1117:30. The radar altimeter was unstable from 0955:00-1131:00.

DPRC exceeded the ambient temperature (AT1) at ascent (0958:00-1001:00) and at descent (1603:00-1608:00).

	<u>Takeoff</u>	<u>Landing</u>
Aircraft static pressure	1016.9	1013.0
Corrected tower pressure	1016.0	1012.0

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

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~~ATI~~ PSIM VIEW-PATR ?
DPRC QCIM VNS-PATR
~~ATI~~ HGALT

- DBPI SPIKE (DOWN) 1555:00 - 1605:30
- DPLC SPIKE (UP) 1346:00 - 1359:00
- DATA/DPRC/PATR SPIKE @ TAKEOFF
- + ~~ATI~~ HGALT SPIKE @ TAKEOFF + LANDING 0955-0958:00 / 1612:50-1616:00
- + HGALT DOWN SPIKE 1117:10 - 1117:30
- + HGALT DOWNWARD OFFSET ~~ATI~~ UNSTABLE 0955:00 - 1131:00
- PSIM + PS2M AVG 0.61 MB DIFF FOR ENTIRE FLIGHT
- QCIM + QC2M AVG 0.31 " " " " " "
- SSRD1 SPIKE 1558:30-1559:00
- + DPRC EXCEEDS ATI AT ASCENT 0958:00-1601:00
- + DPRC EXCEEDS ATI AT DESCENT 1603:00-1608:00

6CT SHANNON TAF

1322 20/24636 10 km 15 SCT 30 BKN
TEMPO 1318 7 SCT 12 BKN
BOMB 1820 180/28642

200/21 10 km 20 SCT 40 BKN ~~1200~~

GS-IV Flight Plan
 Thursday 27 February
 Take-off: 0900Z
 Landing: 1432Z
 Dur/ 5H32mn
 Dist: 2375 nm
 56 dropsondes

WYPt	Longit.	Latitud	Distan.	Wind FF	Wind DD	Tsg.	Ttot	Tutc	T. Dist	NSd.	Dsd.
1	-8.92	52.70	.00	69.79	245.06	00.00	00.00	09.00	.00	0	0
2	-19.01	51.95	372.53	90.16	224.69	01.02	01.02	10.02	372.53	12	12
3	-19.07	62.97	660.83	119.09	210.22	01.15	02.17	11.17	1033.36	27	15
4	-30.04	57.02	484.24	73.85	194.93	01.19	03.36	12.36	1517.60	42	15
5	-18.91	52.02	489.21	115.77	207.96	01.12	04.49	13.49	2006.81	56	14
6	-8.92	52.70	368.10	90.16	224.69	00.44	05.33	14.33	2374.90	56	14

*24 K to 7PM
 get*

52N 19W
 63N 19W
 57N 30W
 52N 19W
 Shimmer

38-62nd higher

GS-IV Flight Plan
Northern alternate
Thursday 27 February
Low 46
take-off: 0900Z
landing: 1532Z
Flight Dur. 06H32mn
Tot. Dist. 2900 nm

WypT	Longit.	Latitud	Distan.	Wind FF	Wind DD	Gr.Spd.	Tsg.	Ttot
1	-8.92	52.70 45 ⁴⁵	.00	69.65	245.88	.00	00.00	00.00
2	-17.98	52.82 50 ⁵⁰	328.96	81.10	226.25	372.06	00.53	00.53
3	-23.15	54.98	224.01	126.76	208.77	430.54	00.31	01.24
4	-23.09	56.00	60.72	154.41	203.01	569.51	00.06	01.30
5	-20.91	61.06 10 ¹⁰	311.54	137.24	201.33	564.71	00.33	02.03
6	-26.06	60.94 54 ⁵⁴	149.78	94.67	185.23	409.99	00.21	02.25
7	-33.96	61.08 05 ⁰⁵	229.73	43.07	125.02	466.96	00.29	02.55
8	-42.03	63.07 05 ⁰⁵	255.90	39.34	105.52	467.74	00.32	03.28
9	-34.00	58.08	380.84	29.73	87.79	410.40	00.55	04.23
10	-17.87	52.76 45 ⁴⁵	633.01	93.52	208.81	428.69	01.28	05.52
11	-8.92	52.70 45 ⁴⁵	325.24	81.10	226.25	488.15	00.39	06.32

Trops

1) 52° 37' N	12° 00' W	29) 56° 38' N	78° 58' W
2) 52° 33' N	13° 24' W	30) 56° 15' N	27° 59' W
3) 52° 27' N	14° 45' W	31) 55° 50' N	27° 00' W
4) 52° 18' N	16° 07' W	32) 55° 27' N	26° 02' W
5) 52° 11' N	17° 30' W	33) 55° 05' N	25° 05' W
6) 52° 00' N	19° 00' W	34) 54° 38' N	24° 08' W
7) 53° 08' N	19° 00' W	35) 54° 15' N	23° 15' W
8) 54° 08' N	19° 00' W	36) 53° 48' N	22° 23' W
9) 55° 12' N	19° 00' W	37) 53° 22' N	21° 32' W
10) 56° 16' N	19° 00' W	38) 52° 55' N	20° 42' W
11) 57° 21' N	19° 00' W	39) 52° 28' N	19° 50' W
12) 58° 26' N	19° 00' W	40) 52° 00' N	29° 00' W
13) 59° 30' N	19° 00' W	41) 52° 00' N	17° 53' W
14) 60° 34' N	19° 00' W	42) 52° 00' N	16° 43' W
15) 61° 34' N	19° 00' W	43) 52° 00' N	15° 33' W
16) 62° 30' N	19° 00' W	44) 52° 00' N	14° 26' W
17) 62° 04' N	20° 07' W		
18) 61° 38' N	21° 05' W		
19) 61° 16' N	22° 03' W		
20) 60° 47' N	23° 01' W		
21) 60° 18' N	23° 59' W		
22) 59° 48' N	24° 56' W		
23) 59° 23' N	25° 51' W		
24) 58° 55' N	26° 45' W		
25) 58° 28' N	27° 37' W		
26) 57° 56' N	28° 25' W		
27) 57° 21' N	29° 16' W		
28) 57° 00' N	30° 00' W		

DATE : 2/9/97
TO : Chief, AOC Flight Operations
FROM : Pilot/Flight Director, Aircraft N42RF ON 2248Z BLOCKTIME
SUBJECT: Hazardous Duty OFF 1304Z 9.7

PURPOSE OF FLIGHT: RAДАР work in cyclone ~~at 5K feet~~ (FASTEX Project)

Hazardous Duty Pay is required for flight made on 2/9/97
(DATE)

Request based on RAДАР work in cyclone at 5K feet.

Personnel on board authorized Hazard Pay:

- CZYZYK, S
- BARR, J
- LYNCH, T
- OFFUTT, D
- MCMILLAN, S
- TORREY, R.
- WADE, S.

PILOT/FLIGHT DIRECTOR: *Mark Gray*
APPROVED: _____ DISAPPROVED: _____
CHIEF, AOC FLIGHT OPERATIONS: _____

GS-IV Flight Plan
Thursday 27 February
Take-off: 0900Z
Landing: 1432Z
Dur/ 5H32mn
Dist: 2375 nm
56 dropsondes

WyPt	Longit.	Latitud	Distan.	Wind FF	Wind DD	Tsg.	Ttot	Tutc	T. Dist	NSd.	DSd.
1	-8.92	52.70	.00	69.79	245.06	00.00	00.00	09.00	.00	0	0
2	-19.01	51.95	372.53	90.16	224.69	01.02	01.02	10.02	372.53	12	12
3	-19.07	62.97	660.83	119.09	210.22	01.15	02.17	11.17	1033.36	27	15
4	-30.04	57.02	484.24	73.85	194.93	01.19	03.36	12.36	1517.60	42	15
5	-18.91	52.02	489.21	115.77	207.96	01.12	04.49	13.49	2006.81	56	14
6	-8.92	52.70	368.10	90.16	224.69	00.44	05.33	14.33	2374.90	56	14

27-feb-1997, 16:30:00 Lambert conformal polar projection: g4 track with wind vectors.

