

FLT ID: 990218I	FM: CYT	TO: BIKF
FLT NO: 99-016	BLK IN: 2247Z	ATA: 2221Z
ETD: 14Z	BLK OUT: 1515Z	ATD: 1520Z
ETE: 21Z	BLK TIME: 7'32 7.5	FLT TIME: 7:05 71
SPONSOR ORG: NESDIS	PROGRAM: SHOWS	PURPOSE: GREENLAND TILT

DAO PERSONNEL

AC TENNESEN, D	SYS ENG BARR, J ✓
CP KENUL, P	DATA SYS
NAV KOZAK, S ✓ / NEWMAN, C	RADAR
FE WADE, S ✓ / MOIRE, H ✓	BT/ODW MCNAMARA, R ✓
RADIO SANS SOUCE, D ✓	CLD PHYS CLOSSER, G
FD CZYZAK, S ✓	DOPPLER WINTER, D ✓

PARTICIPATING SCIENTIST/VISITORS/DAO

LAST, FIRST NAME	ACTIVITY ON A/C	AFFILIATION
CHANG, P	P.I	NESDIS
CARSWELL, J ✓	C-SCOT / KV-SCOT	UMASS
SHAPIRO, M ✓	RADAR	ETL
BOND, N ✓	"	PMEL
RYERSON, T ✓	CO POO	NAA/AL

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

BALANCE OWT 1548Z
 OWT 1552Z
 OWT 1604Z
 RO-158 OUT 1632Z SWITCH TO 232
 ALAPS PROBS 1835Z

163302

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

FLT ID: 990218I TIME OFF: 1520Z TIME ON: 2221Z

	A/C T/O	WX STN	A/C LAND	WX STN
PRESSURE	1008.0	30.29	967.2 968.9	28.79

NO DATA DISPOSITION/DATE/QUALITY

1/SEC FLT LVL TAPES

2

FAST FLT LVL TAPES

RADAR TAPES

DOPPLER TAPES

ODW CASSETTES

HARD COPIES

AXBT

AXCP

ODW

GPS

6

MEL

2

PAUL

PHOTOGRAPHY

	FWD	LS	RS	VERT
ON				
OFF				
RATE				

REMARKS

990218I

TIME	LAT	LONG	TIL	HD	TA	TD	LD	WS	PA	GA	PS	SP	REMARKS
152900											IN CLOUD + RAIN		945 MB
153000													CLOUD TOP 3600 FT
154630	4950	5212	12	08	-21.2	-20.2	249	30.3	5221	5200	524.5	1015.9	CECEL 17K RADAR
1628	5208	5120	11	04	-24.4	-26.2	240	55.4	5237	5132	IN CLOUDS		OVER PATCHY ICE
1655	5421	5036	12	02	-26.8	-28.4	250	57.7	5235	4988	SC BELOW		STILL IN TAN CLOUDS
173508	5730	4924	12	357	-31.8	-48.7	267	79.6	5236	4857	523.4	998.4	DRIP #1 OUT OF CLOUDS
													NO WINDS
180011	5924	4836	12	355	-35.1	-52.9	271	88.7	5236	4948	523.5	992.8	DRIP #2
180642	5953	4824	14	359	-37.1	-53.8	272	75.2	5230	4725	523.8	996.6	DRIP #3
181359	6025	4809	13	0	-39.6	-53.9	269	66.8	5221	4622	523.9	998.4	DRIP #4
181950	6051	4752	48	41	-39.9	-53.6	271	54.8	5231	4632	523.7	992.8	DRIP #5 ON LAND
182704	6116	4655	49	42	-39.1	-55.1	276	43.6	5234	3484	523.4	949.7	DRIP #6
1833													DRIP #7
1910													DESCEND TO 8K
1940													IN & OUT OF CLOUDS
195801	5949	4041	15	3	-26.2	-45.2	273	60.0	2965	2620			DRIP #8
202504	6015	4021	12	5	-27.0	-42.3	288	28.8	2955	2593	705.2	917.8	DO PATTERSON P. SPANISH
202830													DRIP #9
202836	6029	4013											DIRECT + CLIMB
203810	6050	3846	62	56	-40.5	-55.2	267	72.0	6479	5816	441.6	974.0	LEVEL 19K RADAR

DATE : 2/18/99

TO : Chief, AOC Flight Operations

FROM : Pilot/Flight Director, Aircraft N43RF ON 2247 BLOCKTIME
OFF 1545 7.5 ~~000~~

SUBJECT: Hazardous Duty

PURPOSE OF FLIGHT: ~~FERRY~~ FERRY TO ICELAND/GREENLAND TIPJET

Hazardous Duty Pay is required for flight made on (2/18/99)
(DATE)

Request based on EXPECTED TURB/POSS. SEVERE

Personnel on board authorized Hazard Pay:

CZYZYK, S

BARR, J

MCNAMARA, R

WADE, S

MOORE, H

SAN'S SOULI, D

CLOSSER, G

PILOT/FLIGHT DIRECTOR: [Signature]

APPROVED: _____

DISAPPROVED: _____

CHIEF, AOC FLIGHT OPERATIONS: _____

Flight #5: Feb. 17, 1999

9 AM Takeoff (1230Z)

Fuel for max mission flown at FL100-max altitude. Radar altitude.

Depart at max altitude/most fuel efficient

Direct to 60 50N 47 55W (PT 1)

PT 2 62N 45W

PT 3 61 30N 44 15W

PT 4 60 30N 44W

PT 5 59 15N 43 15W Descend to FL100 (190 nm)

PT 6 59N 41 30W Between Pt 6 and Pt 8 2 or 3 maneuvers will
be performed each ~ 12 minutes in duration

PT 7 61N 40W Climb to FL170

PT 8 66 20N 27W

Direct to Kevlavek

70 DROPSONDES for the deployment (~30 for the first mission)

Briefing at 7 AM at ESSO.

The tail radar should be operated in normal mode with a sector scan, scanning from the horizontal plane and below.

Temp Drop header: WXWXA SHOWS

Fast Data

6-7

5/min

Drops:

✓ Drop 1	57 30N	49 25W	
✓ Drop 2	59 24N	48 36W	> 27 5 min
✓ Drop 3	59 52N	48 16W	> 34 5 min
✓ Drop 4	60 24N	48W	> 34 7 min
✓ Drop 5	60 50N	47 50W	> 26 5 min
✓ Drop 6	61 15N	46 54W	> 34 7 min
Drop 7	61 35N	46W	> 34 7 min
Drop 8	62N	45W	> 34 7 min
Drop 9	61 30N	44 15W	> 38 5 min
Drop 10	61N	44 10W	> 29 5 min
Drop 11	60 30N	44W	> 29 4 min
Drop 12	60 12N	43 45W	> 20 5 min
Drop 13	59 42N	43 25W	> 30 5 min
Drop 14	59 15N	43 15W	> 26
Drop 15	59 15N	41 20W	> 22 5 min
Drop 16	59 35N	41 05W	> 24 6 min
Drop 17	60N	40 45W	> 22 5 min
Drop 18	60 24N	40 30W	> 26 6 min
Drop 19	60 48N	40 08W	> 26
Drop 20	60 48N	39 45W	
Drop 21	60 18N	39W	
Drop 22	59 40N	38 12W	

PT 5

ADD PT6 60 30N 42W
 NEW PT 59 35N 41.5W

63 59N
 22 37W

0700
 3
 10
 8
 85
 29
 14
 43

1100 - 100
 1670

8.7
 6
 4
 3
 22
 14
 36
 2
 47
 51

2100 280/25635 9km
 0600 SW -
 2500 BRN
 TEMP 8km SW
 800 BRN
 0104 340/30645

270/22
 BS 100
 BRN 015

unknown loss due to liquid,
not uniform, makes it even worse

2100
10 km
20/20
18 km
013
-3/-5

2200
6 km SW - 05
500 015
290/30645
05/8/50
003

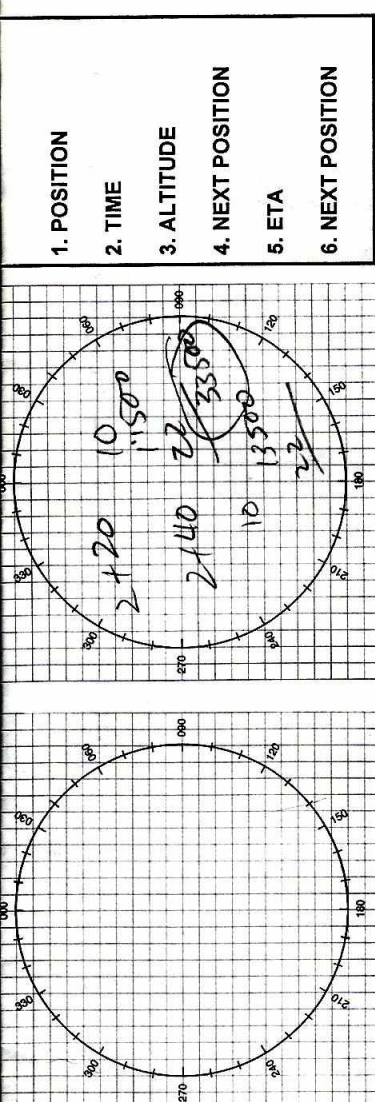
LT 59.84
LN 40.60

ANY OF THE FOLLOWING EMERGENCY FREQUENCIES:
UHF/VOICE 243.0
VHF/VOICE 121.5
HF/VOICE 2182 KHZ
500 KHZ
MAYDAY, MAYDAY, MAYDAY
THIS IS NOAA
NOAA
NOAA
N/S
E/W AT
Z
311.1

1. POSITION
2. TIME
3. ALTITUDE
4. NEXT POSITION
5. ETA
6. NEXT POSITION

1. POSITION
2. TIME
3. ALTITUDE
4. NEXT POSITION
5. ETA
6. NEXT POSITION

1. POSITION
2. TIME
3. ALTITUDE
4. NEXT POSITION
5. ETA
6. NEXT POSITION



TIME	FIX TYPE	POSITION	INS 1 POSITION	K ERR	INS 2 POSITION	K ERR	VAR +E==>	TH	DR +R==>	TRK	GS	WD	WS	ALT	TAS	NEXT PT	DIST	TIME	ETA	REMARKS
1504		49 37.3 N 52 44.2 W																		ENG START
1515		49 37.4 N 52 46.3 W																		Taxi Runway
1526																				Taxi Runway
1634		52 18.5 N 51 16.8 W	52 17.8 N 51 16.8 W	+7	50 18.6 N 51 16.8 W	-1.7	28W	004	7R	011	363	244	53	17K	274	1	516	1442	1817	Fuel
1734		57 06.8 N 49 33.5 W	57 05.3 N 49 33.8 W	+1.5 -3	57 06.9 N 49 33.5 W	-1.1 -1.5	32W	.357	15R	012	288	267	80	17K	277	1	203	1442	1817	Fuel
1952		54 46.1 N 40 43.5 W	54 43.8 N 40 40.5 W	+2.3 -3.6																
2044	6	61 06.3 N 37 43 W	61 04.1 N 37 47.5 W	+2.2 -4.5	61 07.5 N 37 44.5 W	-1.2 -1.5	30W	57	061	061	328	265	61	21.2	274	8	124	422	2107	Fuel
2137		63 03.4 N 28 26.6 W																		
2221																				LAND
2227																				CHOCK

2.7
4.8
6.0
2.0
2.7

TIME	FIX TYPE	POSITION	INS 1 POSITION	K ERR	INS 2 POSITION	K ERR	VAR +E==>	TH	DR +R==>	TRK	GS	WD	WS	ALT	TAS	NEXT PT	DIST	TIME	ETA	REMARKS
1504		49 37.3 N 52 44.2 W																		ENG START
1515		49 37.4 N 52 46.3 W																		Taxi Runway
1526																				Taxi Runway
1634		52 18.5 N 51 16.8 W	52 17.8 N 51 16.8 W	+7	50 18.6 N 51 16.8 W	-1.7	28W	004	7R	011	363	244	53	17K	274	1	516	1442	1817	Fuel
1734		57 06.8 N 49 33.5 W	57 05.3 N 49 33.8 W	+1.5 -3	57 06.9 N 49 33.5 W	-1.1 -1.5	32W	.357	15R	012	288	267	80	17K	277	1	203	1442	1817	Fuel
1952		54 46.1 N 40 43.5 W	54 43.8 N 40 40.5 W	+2.3 -3.6																
2044	6	61 06.3 N 37 43 W	61 04.1 N 37 47.5 W	+2.2 -4.5	61 07.5 N 37 44.5 W	-1.2 -1.5	30W	57	061	061	328	265	61	21.2	274	8	124	422	2107	Fuel
2137		63 03.4 N 28 26.6 W																		
2221																				LAND
2227																				CHOCK

1345
145
845

ENROUTE FUEL

38.5

[illegible]

INS PERFORMANCE		INS 1	INS 2
BEGIN ALIGN TIME		1132Z	1132Z
ALIGN STATUS (0-5)		0	0
END NAV TIME			
START NAV TIME		150Z	150Z
DELTA T			

TERMINAL ERRORS		INS 1	INS 2
DELTA LAT			
DELTA LON			
RGS			
RADIAL			

EMERGENCY MESSAGE

TRANSMIT THE FOLLOWING MESSAGE TO ANY AGENCY ON THE AIR-GROUND

MISSION LOG

PAGE OF

DATE	DESCRIPTION	AMOUNT	CHECK NO.	BANK
10/1/20	DEPOSIT	100.00		CHASE
10/5/20	PAYROLL	50.00	101	CHASE
10/10/20	RENT	200.00	102	CHASE
10/15/20	SALES	75.00	103	CHASE
10/20/20	UTILITIES	30.00	104	CHASE
10/25/20	DEPOSIT	150.00		CHASE
10/30/20	PAYROLL	50.00	105	CHASE
11/5/20	RENT	200.00	106	CHASE
11/10/20	SALES	80.00	107	CHASE
11/15/20	UTILITIES	35.00	108	CHASE
11/20/20	DEPOSIT	160.00		CHASE
11/25/20	PAYROLL	55.00	109	CHASE
11/30/20	RENT	210.00	110	CHASE
12/5/20	SALES	85.00	111	CHASE
12/10/20	UTILITIES	40.00	112	CHASE
12/15/20	DEPOSIT	170.00		CHASE
12/20/20	PAYROLL	60.00	113	CHASE
12/25/20	RENT	220.00	114	CHASE
12/30/20	SALES	90.00	115	CHASE
1/5/21	UTILITIES	45.00	116	CHASE
1/10/21	DEPOSIT	180.00		CHASE
1/15/21	PAYROLL	65.00	117	CHASE
1/20/21	RENT	230.00	118	CHASE
1/25/21	SALES	95.00	119	CHASE
1/30/21	UTILITIES	50.00	120	CHASE
2/5/21	DEPOSIT	190.00		CHASE
2/10/21	PAYROLL	70.00	121	CHASE
2/15/21	RENT	240.00	122	CHASE
2/20/21	SALES	100.00	123	CHASE
2/25/21	UTILITIES	55.00	124	CHASE
2/28/21	DEPOSIT	200.00		CHASE
3/5/21	PAYROLL	75.00	125	CHASE
3/10/21	RENT	250.00	126	CHASE
3/15/21	SALES	105.00	127	CHASE
3/20/21	UTILITIES	60.00	128	CHASE
3/25/21	DEPOSIT	210.00		CHASE
3/30/21	PAYROLL	80.00	129	CHASE
3/31/21	RENT	260.00	130	CHASE

CON

ATT

1

ELITE

Figure 1

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466
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