

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

FLT ID: 970222N	FM: SNN	TO: SNN
FLT NO: 97-048	BLK IN: 1424Z/2126Z	ATA: 1420Z/2122Z
ETD: 0800	BLK OUT: 0749Z/1557Z	RTD: 0758Z/1625Z
ETE: 2200	BLK TIME: 12.04 12.1	FLT TIME: 11.19 11.3
SPONSOR ORG:	PROGRAM: FAITEX	PURPOSE:

OAO PERSONNEL

AC PHILIPPSBORN, R	SYS ENG PRADAS-BERGNES, J ✓
CP FINKE, M ✓	DATA SYS LYNCH, T ✓
NAV	RADAR GOLDSTEIN, A
FE KITSON, G	BT/ODW
RADIO	CLD PHYS
FD CZY24K, S ✓	DOPPLER

PARTICIPATING SCIENTIST/VISITORS/OAO

LAST, FIRST NAME	ACTIVITY ON A/C	AFFILIATION
LAMASS, J.P. ✓		
BARTELS, D. ✓		
GALL, B. ✓		
LANGLAND, R. ✓		
BESSEMOULIN, P. ✓		

PROPOSED/ACTUAL MISSION/REMARKS (RECCO, FIXES, STORM, PENET, NHOP #)
 LIGHT SUSTAINED FUND 20-25 W FIRST LEG

U.S. DEPT. COMM./NOAA/OAO - DATA SECTION WORK FORM NO.2 OROWF2

FLT ID: 970222N

TIME OFF:

TIME ON:

	A/C T/O	WX STN	A/C LAND	WX STN
PRESSURE	1016.7/1013.0	1014/30.04	1013.6/1004.5	30.03/1003

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

65

PHOTOGRAPHY

	FWD	LS	RS	VERT
ON				
OFF				
RATE				

REMARKS

970 222N

TIME	LOT	ION	TK	HO	TA	TD	WD	NS	PA	GA	SP	OC	REMARKS
081200	5252	1051	264	269	-42.9	-48.2	237	30	8504	8431	730.1	160.2	28K
081600													BALANCE VTR
081830	5306	1543	272	273	-43.2	-4	233	44	8504	8350	730.0	160.8	
090200	5336	1950	268	268	-46.6	-54.1	234	56	8504	8226	729.9	157.9	
094100	5401	2646	260	262	-50.6	-56.4	219	40	8202	7697	745.1	169.8	27K
095900	5359	3008	251	254	-52.4	-55.3	216	32	8197	7636	745.0	150.4	1 DROP
100816	5349	3144	236	240	-52.8	-56.6	217	31	8197	7613	745.0	147.6	DROP
102004	5316	3337	233	248	-50.8	-60.5	245	23	8198	7609	745.0	149.9	W DROP EAST
102259	5308	3405	233	241	-50.9	-61.1	245	22	8196	7609	745.0	150.6	DROP
103222	5241	3526	231	241	-49.9	-61.7	251	25	8198	7612	744.9	150.7	DROP
104413	5207	3713	230	247	-42.2	-56.7	282	54	8196	7659	745.0	149.8	DROP
105829	5123	3902	229	249	-40.0	-43.6	282	69	8195	7721	745.0	150.8	P DROP
110424	5105	3946	228	248	-39.3	-47.2	280	70	8196	7746	745.0	150.2	DROP
111206	5042	4041											DROP
111505	5033	4102	226	248	-38.7	-48.8	281	77	8195	7807	745.0	150.8	DROP
112615	4958	4220	225	246	-38.5	-42.6	281	71	8196	7855	745.0	150.5	DROP
114343	4956	4351	359	340	-39.1	-42.0	282	68	8195	7859	745.1	151.5	DROP
114951	5035	4352	359	338	-38.5	-46.9	283	77	8193	7803	745.1	150.3	DROP
115559	5114	4353	357	338	-39.7	-52.7	280	77	8193	7730	745.1	149.6	DROP
120127	5149	4354	359	340	-39.7	-49.7	278	67	8194	7674	745.1	149.7	DROP
120728	5229	4355	359	339	-39.8	-50.2	276	73	8194	7616	745.2	151.2	DROP
121243	5304	4356	359	340	-40.9	-53.6	271	67	8193	7540	745.3	147.6	DROP
121815	5342	4357	359	344	-42.6	-54.1	269	50	8191	7493	745.2	150.0	DROP
122334	5420	4359	359	348	-44.0	-55.6	261	38	8194	7443	745.2	152.2	DROP
123722	5448	4359	350	335	-45.6	-56.1	257	30	8191	7411	745.2	150.2	DROP
123415	5455	4506	253	262	-47.0	-55.8	266	33	8192	7391	745.2	151.6	DROP
124022	5452	4611	252	263	-42.5	-55.1	271	36	8193	7389	745.2	149.8	DROP
124641	5446	4717	251	262	-42.4	-54.8	271	37	8191	7395	745.2	149.8	DROP
125327	5440	4827	250	262	-42.2	-54.8	277	40	8193	7399	745.2	151.4	DROP
130008	5433	4934	247	263	-42.5	-54.9	283	44	8191	7411	745.3	149.5	DROP
130551	5427	5030	247	263	-41.9	-54.9	285	48	8190	7425	745.3	150.2	DROP
131245	5420	5138	247	264	-42.2	-54.8	286	57					DROP
132111	5420	5253	247	263	-42.9	-55.0	283	65	8191	7484	745.3	150.0	DROP
132718	5402	5346	246	263	-42.1	-55.0	285	65	8190	7513	745.3	151.4	DROP
133538	5352	5456	248	265	-42.7	-54.9	281	75	8191	7561	745.3	151.1	DROP
134330													DESCEND
134800													14K

970222N

11512

TIME	LAT	ION	TK	HO	TA	TO	WD	WS	PA	GA	PS	PR	REMARKS
165130	52 40	55 07	107	99	-42.0	-48.7	282	63	8202	7708	345.1	158.7	27K
171145	51 55	49 47	111	105	-41.9	-48.2	282	65	8198	7706	345.0	155.9	Drop
172142	51 30	47 28	113	108	-41.5	-49.3	280	67	8199	7704	345.0	157.0	Drop
173312	51 15	44 59	355	340	-40.7	-50.3	281	71	8199	7719	345.0	157.7	Drop
174050	52 04	45 00	11	339	-41.4	-53.8	282	80	8201	7621	345.0	159.1	Drop
174544	52 35	45 00	20911	340	-41.4	-54.2	283	76	8200	7563	345.0	157.1	Drop
175126	53 13	45 00	11	343	-41.0	-53.3	283	64	8198	7496	345.0	155.5	Drop
175502	53 37	45 00	11	345	-41.3	-53.7	286	53	8199	7470	344.9	155.9	Drop
180040	54 15	45 00	11	349	-42.6	-54.6	290	41	8199	7425	345.0	154.9	Drop
180513	54 46	45 00	11	351	-44.1	-55.0	294	36	8197	7409	345.1	153.4	Drop
181011	55 20	45 00	11	353	-46.7	-56.0	291	27	8200	7386	344.9	151.1	Drop
181446	55 52	45 00	10	354	-48.5	-57.1	292	18	8199	7383	345.0	155.8	Drop
181843	56 20	45 00	356	357	-48.3	-58.7	298	9	8200	7369	345.0	156.9	Drop
182517	56 57	44 34	108	99	-51.0	-60.3	54	5	8201	7355	344.9	156.9	Drop
183744	56 48	43 14	108	101	-51.0	-60.6	92	6	8200	7367	344.9	156.4	W Drop
183354	56 44	42 47	109	101	-50.2	-60.7	97	5	8200	7366	344.9	155.0	Drop
184020	56 34	41 26	110	103	-50.7	-60.3	132	5	8200	7365	345.0	156.2	Drop
184828	56 20	39 45	111	106	-51.6	-61.2	146	10	8198	7302	345.0	156.0	Drop
185718	56 03	37 59	113	108	-52.4	-61.9	195	11	8199	7407	345.0	156.2	Drop
190532	55 45	36 18	114	110	-52.1	-61.6	214	14	8197	7425	345.0	154.1	Drop
191327	55 27	34 41	115	112	-51.1	-61.7	229	17	8198	7453	345.1	156.2	Drop
192119	55 08	33 05	117	114	-50.7	-61.5	229	21	8196	7473	345.0	153.3	Drop
192912	54 45	31 29	118	116	-48.8	-60.3	239	25	8197	7503	345.1	155.1	Drop
193634	54 23	29 59	119	118	-48.0	-59.6	242	32	8197	7540	345.0	154.9	Drop
195900													CLIMB
200420	53 02	29 07	93	89	-51.9	-60.0	252	33	8213	10711	217.0	108.9	37K Drop
200849	53 04	23 03	94	89	-52.3	-59.8	251	32	11209	10724	217.2	108.9	Drop
201614	53 06	21 20	96	92	-52.1	-59.5	252	35	11205	10744	217.3	106.2	W Drop
201947	53 06	20 29	96	93	-52.2	-59.7	228	34	11204	10755	217.2	107.5	Drop
202321	53 06	19 40	97	94	-51.9	-59.8	233	34	11206	10779	217.3	108.0	Drop
202903	53 06	18 22	98	97	-52.4	-59.7	225	37	11205	10799	217.3	108.3	Drop
203510	53 04	16 59	99	99	-53.7	-61.4	225	41	11205	10831	217.3	107.2	Drop
204058	53 01	15 40	101	101	-53.8	-60.7	221	41	11205	10861	217.3	107.7	Drop
204642	53 00	14 28	97	97	-52.2	-62.5	220	46	11202	10902	217.3	106.6	W Drop
204931	53 00	13 45	97	98	-52.6	-63.3	227	48	11202	10909	217.3	106.0	Drop
205217	53 00	13 08	97	100	-59.9	-64.0	220	51	11203	10935	217.3	107.1	Drop
205717	53 00	12 01	100	103	-67.3	-65.8	220	52	11202	10958	217.4	106.9	Drop

FASTEX

Flight #18 N970222

DATA TYPE

SENSOR or OPTION

INE	VEW
Accelerometer	ACINS
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.

Flight 1 - 0755:00-1423:00

DPRC balanced 0835:00-0840:20. DPRC exceeded ambient temperature during ascent (0759:00-0801:00).

GPGALT was erroneous 1015:00-1043:00.

Flight 2 - 1622:00-2123:00

Radar altimeter (HGALT) was inactive 1625:00-1740:00.

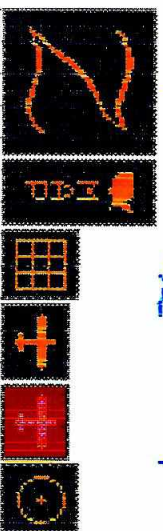
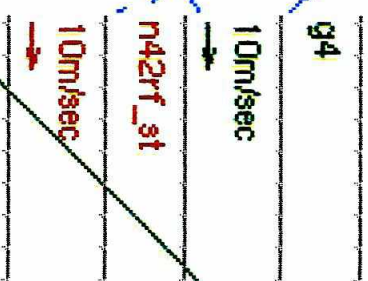
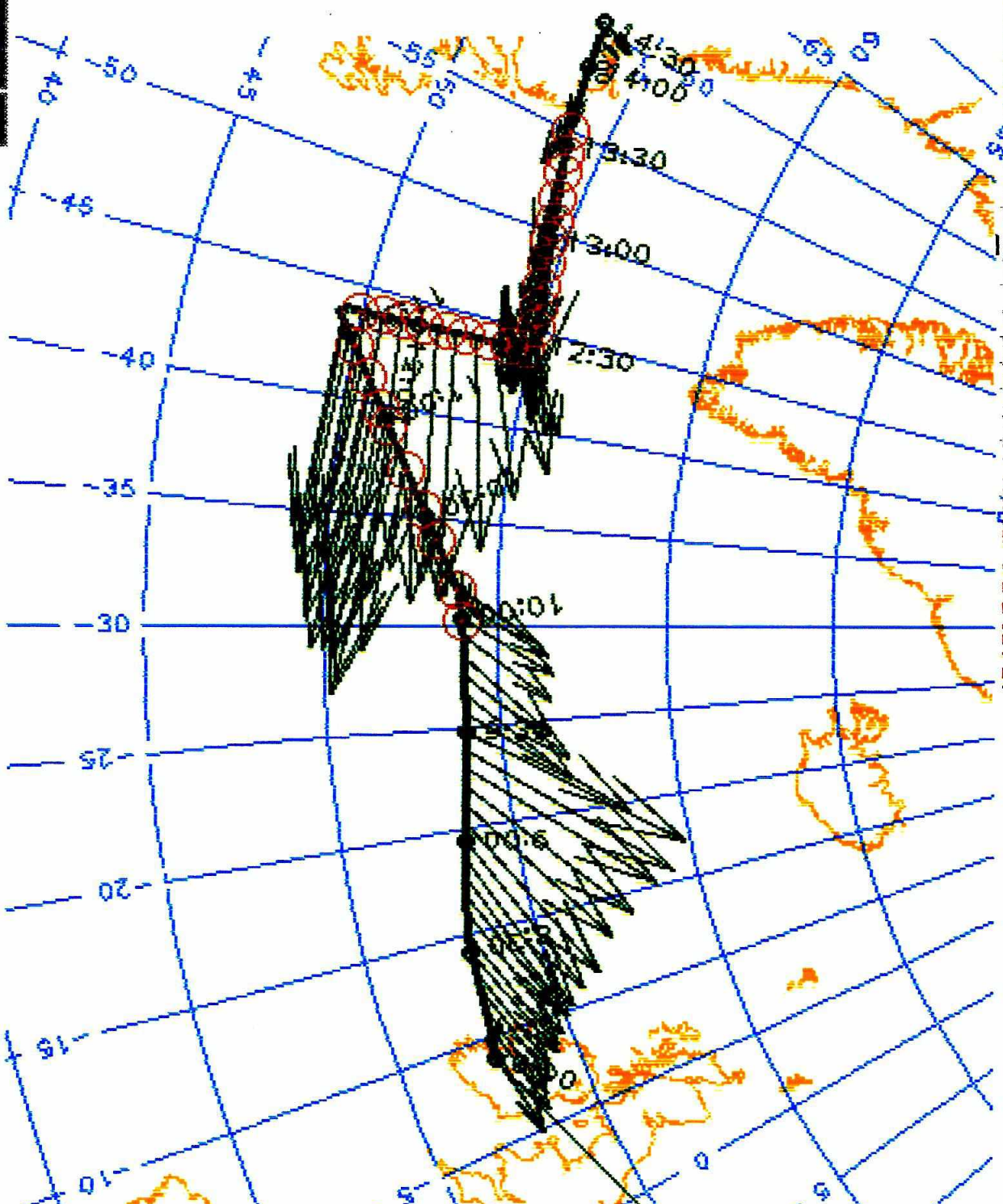
GPGALT was unstable 1639:00-1734:00 and 1807:00-1840:00.

DPRC exceeded ambient temperature (AT1) 2110:00-2116:00.

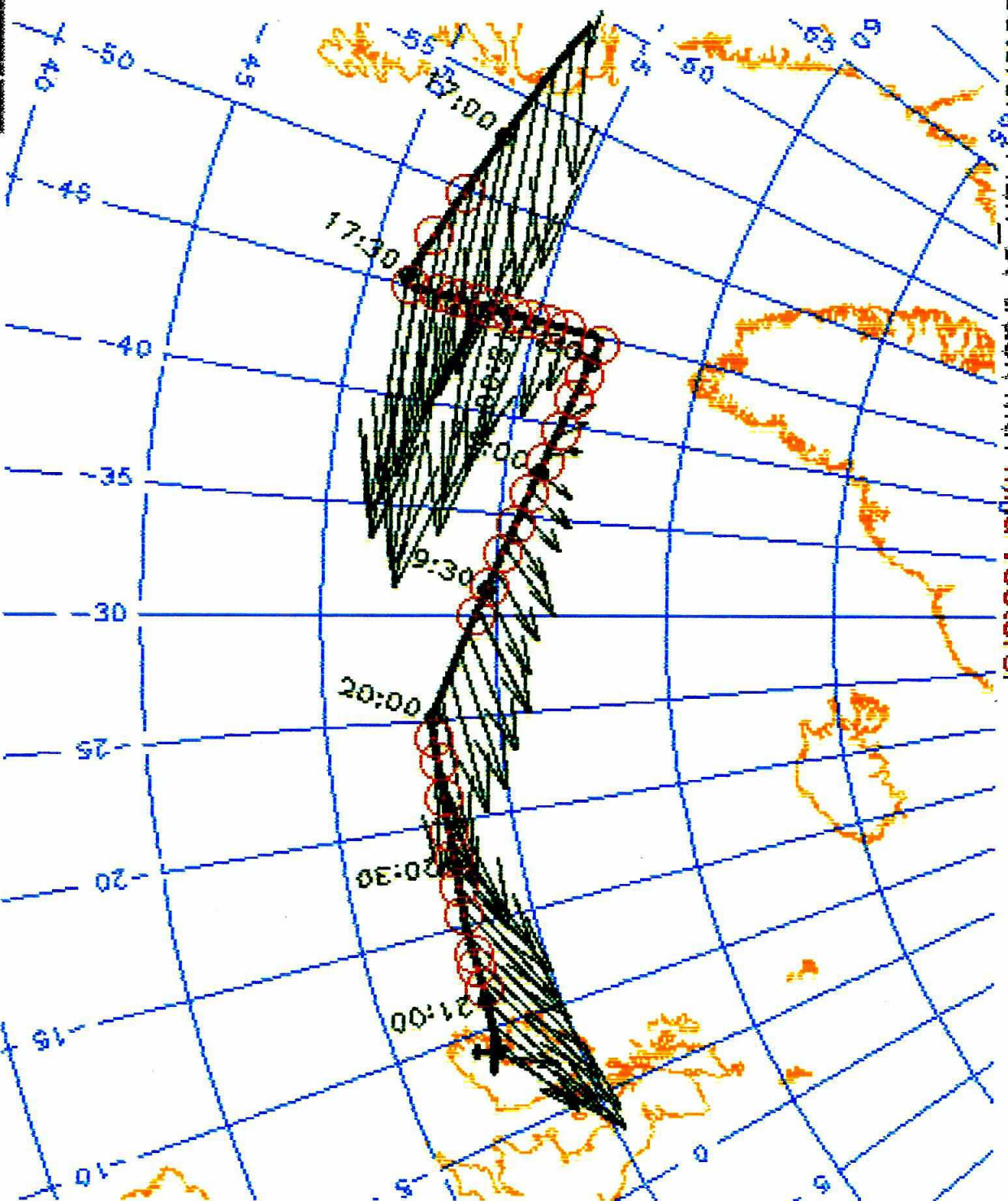
	<u>Takeoff</u>	<u>Landing</u>
Aircraft static pressure	1016.7/1013.0	1013.6/1004.5
Corrected tower pressure	1014.0/1017.3	1016.9/1003.0

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

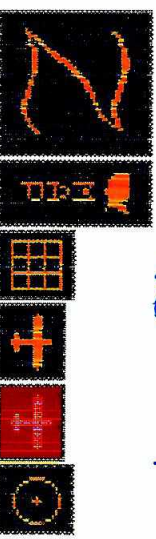
22-feb-1997,15:00:00 Lambert conformal polar projection: g4 track with wind vectors, n42rf_st track with wind vectors.



22-feb-1997,23:30:00 Lambert conformal polar projection: g4 track with wind vectors. n42rf_st track with wind vectors.



g4
10m/sec
n42rf_st
10m/sec



970222N

ATI
DPRC
GPALT VIEW
PSIM VNS
QCIM

2 PARTS

0755-1421

FRONTAL PASSAGE 0929:00 - 0931:00

DBPI + 2 DIFFER 12.5 THROUGHOUT 1ST PART OF FLIGHT

- DPRC + DPLC BALANCED 0835:00 - 0840:20

PSIM + PS2m AVG 0.6 MD DIFF FOR ENTIRE FLIGHT

QCIM + QC2m AVG 0.3 MB DIFF FOR ENTIRE FLIGHT

- GPALT ERRONEOUS 1015:00 - 1047 UNSTABLE

- DPLC EXCEEDED ATI DURING ASCENT 0759:00 - 0801:00

2nd half

1623:00 - 2123:55

ATI QCIM VIEW
DPRC PSIM VNS
GPALT

→ HGALT OUT 1625-1740

DBPI + 2 DIFFER 11.5 THROUGHOUT 2ND PART OF FLIGHT

- GPALT UNSTEADY 1809:00 - 1840

PSIM + PS2m AVG 0.7 MD DIFF FOR ENTIRE FLIGHT

QCIM + QC2m AVG 0.2 MD " " " "

WSPD SPIKE WITH CHANGE IN HEADING 1723:00 - 1740:00

6. 1959:00 - 2003:00

PSURF AT TO LUNCH 1625:00 - 1740:00

- DBPI SPIKE DOWN 2112:00 - 2115:00

- ~~40003~~ GPALT ERRONEOUS 1639:00 - 1739:00

- DPLC exceeded ATI 2110:00 - 2115:00

DRAPS

- 1) $52^{\circ} 25' N$ $55^{\circ} 20' W$
- 2) $51^{\circ} 53' N$ $50^{\circ} 28' W$
- 3) $51^{\circ} 20' N$ $49^{\circ} 54' W$
- 4) $50^{\circ} 43' N$ $47^{\circ} 32' W$
- 5) $50^{\circ} 00' N$ $45^{\circ} 00' W$
- 6) $50^{\circ} 37' N$ $45^{\circ} 03' W$
- 7) $51^{\circ} 07' N$ $45^{\circ} 07' W$
- 8) $51^{\circ} 44' N$ $45^{\circ} 11' W$
- 9) $52^{\circ} 15' N$ $45^{\circ} 15' W$
- 10) $52^{\circ} 49' N$ $19' W$

2100Z

180/18630
1603

- 1) $52^{\circ} 43' N$ $55^{\circ} 00' W$
- 2) $52^{\circ} 22' N$ $50^{\circ} 30' W$
- 3) $51^{\circ} 58' N$ $49^{\circ} 56' W$
- 4) $51^{\circ} 32' N$ $47^{\circ} 30' W$
- 5)

1901Z - 2120Z
1908Z - 2119Z 230
1915Z - 2118Z 234
1924Z - 2117Z 240
1933Z - 2115Z 248
1942Z - 2112Z 252
1955 - 2111Z 264
2008 - 2009 264

- 1) $52^{\circ} 00' N$ $50^{\circ} 00' W$
- 2) $51^{\circ} 30' N$ $47^{\circ} 30' W$
- 3) $51^{\circ} 00' N$ $45^{\circ} 00' W$
- 4) $51^{\circ} 33' N$ $45^{\circ} 00' W$
- 5) $52^{\circ} 04' N$ $45^{\circ} 00' W$
- 6) $52^{\circ} 35' N$ $45^{\circ} 00' W$
- 7) $53^{\circ} 08' N$ $45^{\circ} 00' W$
- 8) $53^{\circ} 37' N$ $45^{\circ} 00' W$
- 9) $54^{\circ} 15' N$ $45^{\circ} 00' W$
- 10) $54^{\circ} 46' N$ $45^{\circ} 00' W$
- 11) $55^{\circ} 20' N$ $45^{\circ} 00' W$
- 12) $55^{\circ} 52' N$ $45^{\circ} 00' W$
- 13) $56^{\circ} 20' N$ $45^{\circ} 00' W$
- 14) $57^{\circ} 00' N$ $45^{\circ} 00' W$

- 15) $56^{\circ} 46' N$ $43^{\circ} 16' W$
- 16) $56^{\circ} 32' N$ $41^{\circ} 30' W$
- 17) $56^{\circ} 19' N$ $39^{\circ} 48' W$
- 18) $56^{\circ} 03' N$ $38^{\circ} 00' W$
- 19) $55^{\circ} 44' N$ $36^{\circ} 20' W$
- 20) $55^{\circ} 27' N$ $34^{\circ} 41' W$
- 21) $55^{\circ} 07' N$ $33^{\circ} 05' W$
- 22) $54^{\circ} 45' N$ $31^{\circ} 30' W$
- 23) $54^{\circ} 23' N$ $30^{\circ} 00' W$
- 24) $53^{\circ} 00' N$ $25^{\circ} 00' W$
- 25) $53^{\circ} 00' N$ $23^{\circ} 40' W$
- 26) $53^{\circ} 00' N$ $22^{\circ} 21' W$
- 27) $53^{\circ} 00' N$ $21^{\circ} 02' W$
- 28) $53^{\circ} 00' N$ $19^{\circ} 41' W$
- 29) $53^{\circ} 00' N$ $18^{\circ} 23' W$
- 30) $53^{\circ} 00' N$ $17^{\circ} 00' W$
- 31) $53^{\circ} 00' N$ $15^{\circ} 45' W$

- 32) $53^{\circ} 00' N$ $14^{\circ} 24' W$
- 33) $53^{\circ} 00' N$ $13^{\circ} 08' W$
- 34) $53^{\circ} 00' N$ $12^{\circ} 00' W$

ASK FOR HIGHER

180/16 16 R 20 SGT 35 BKN
1006

1904Z 180/18630 10 km 10 SGT 18 BKN
Bene 1921Z 180/22636 7 SGT 12 BKN 18 BKN

Tempo 1924 3 km R 3 SGT 5 BKN
Bene 2224 180/27644

4.5° E

40.5° W

180/17

2115Z

10 SAMPLES
25-12 W

--- LONG TAFS(FT) ---

220400 CYYT(St.John's, Nfld) 220420Z 220505 24015G25KT 3SM -SN
BLSN

BKN008 OVC015 TEMPO 0512 P6SM NSW SCT008 BKN015 BECM

G

0910 33010KT FM1200Z VRB05KT P6SM BKN020 TEMPO 1217

5SM

-SN FM1700Z 07010KT P6SM SCT008 OVC015 TEMPO 1722 3S

M

-SN OVC008 FM2200Z 08010KT 4SM -SN OVC007 FM0100Z

09015KT 1SM -PE OVC004 RMK NXT FCST BY 11Z=

220449 CYHZ(Halifax/Intl,N.S.) 220449Z 220404 19010KT 1/2SM -DZ
FG

VV002 TEMPO 0418 1/8SM -SHRA FG VV001 FM1800Z 21015K

T

2SM BR BKN005 OVC012 TEMPO 1804 1/2SM -SHRA BR OVC00

5

RMK NXT FCST BY 07Z=

220300 CYQX(Gander /Intl,Nfld.) 220320Z 220404 25010KT 4SM -SN
OVC015 TEMPO 0410 P6SM NSW SCT015 OVC025 BECMG 0607
32010KT FM1000Z VRB05KT P6SM BKN020 TEMPO 1018 SCT02

0

FM1800Z 09010KT P6SM BKN020 FM0300Z 09015KT 2SM -SN
OVC008 RMK NXT FCST BY 10Z=

220300 CYYR(Goose, Nfld.) 220331Z 220404 28012KT P6SM SKC FM140
0Z

VRB03KT P6SM BKN240 FM0200Z 03008KT P6SM BKN100 OVC2

40

RMK NXT FCST BY 10Z=

--- END OF REQUEST ---

?

?RQ

GS-IV Flight Plan
Shannon to Goose Bay
Saturday 22 February
Take-off 0800Z
Landing 1424Z
Duration 6H24mn
Distance 2263 nm

6 H/c

~~35 dropsondes~~

35 dropsondes between 30W and 55W

EQUAL SPACED

WyPt	Longit.	Latitud	Distan.	Wind FF	Wind DD	Tsg.	Ttot	Tutc	T. Dist	NSd.	DSd.
1	-8.92	52.70	.00	66.60	233.68	00.00	00.00	08.00	.00	0	0
2	-31.73	53.89	817.63	86.62	227.98	02.10	02.10	10.10	817.63	0	0
3	-43.88	49.28	529.79	109.41	282.59	01.33	03.44	11.44	1347.42	0	0
4	-44.02	54.96	340.77	118.15	278.46	00.51	04.35	12.35	1688.20	0	0
5	-60.10	53.18	574.94	113.73	275.28	01.48	06.24	14.24	2263.14	0	0

(1) EINN

BURAK

53°30'N 15°W

54°N 25°W

54°N 30°W

(2) 53°50'N 31°45'W

51°N 40°W

(3) 49°15'N 43°50'W

(4) 55°N 44°W

OYSTR

(5) YYR