

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

FLT ID: 970218N	FM: YUT	TO: SNN
FLT NO: 97-046	BLK IN: 2208Z	ATA: 2203Z
ETD: 1530Z	BLK OUT: 1521Z	RTD: 1526Z
ETE: 2130Z	BLK TIME: 6.47 6.8	FLT TIME: 6.37 6.7
SPONSOR ORG:	PROGRAM: FASTEX	PURPOSE:

OAO PERSONNEL

AC PHILIPPSBARN, R	SYS ENG PRADAS-BERGNER, C
CP FINKE	DATA SYS GOLDSTEIN, A
NAV	RADAR
FE KITSON, G. / MEREK, M.	DT/ODW
RADIO	CLD PHYS
FD CZYZYK, S.	DOPPLER

PARTICIPATING SCIENTIST/VISITORS/OAO

LAST, FIRST NAME	ACTIVITY ON A/C	AFFILIATION
CAMASS, J. P. ✓		
SHAPIRO, M. ✓		
HELLO, G. ✓		
BARTELS, D. ✓		
ROSEMOND, T. ✓		

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

FD SYSTEM CRASHED @ 1648Z, REBOOTED ITSELF 1651Z
 FLIGHT LEVEL DATA NOT GETTING TO AHEAD. SEVERAL TIMES

DPRS 3 DEGREES OFF @ 41K

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

FLT ID: 970218N

TIME OFF: 1526Z

TIME ON: 2203Z

	A/C T/O	WX STN	A/C LAND	WX STN
PRESSURE	1001.4	30.00	1018.3	

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

54

PHOTOGRAPHY

	FWD	LS	RS	VERT
ON				
OFF				
RATE				

REMARKS

TIME	COT	CON	TK	HD	TX	TD	WD	WS	PA	GA	SP	OC	REMARKS
154106	4613	5148	149	160	-51.7	-53.5	302	51	8803	8475	315.5	146.1	DROP 29K
155026	4508	5057	124	128	-50.8	-57.7	307	49	8806	8547	315.4	152.0	DROP
155615	4435	4953	114	115	-49.7	-58.3	307	49	8797	8550	315.5	133.7	DROP
160121	4413	4900	114	116	-47.6	-58.3	309	44	8808	8570	315.3	154.9	DROP
160748	4345	4750	115	121	-54.1	-58.4	287	42	8795	10569	271.5	108.2	DROP 29K
161239	4326	4705	116	126	-55.5	-58.9	252	37	12108	11971	187.1	87.9	DROP
161832	4301	4609	115	126	-51.7	-58.2	259	39	12361	12271	179.5	85.1	W DROP 41K
162431	4236	4513	117	127	-51.4	-56.9	256	37	12314	12296	179.5	87.9	DROP
163025	4211	4419	117	128	-53.1	-57.5	251	37	12363	12314	179.4	87.4	RH DROP
163624	4145	4325	118	130	-53.7	-58.2	248	44	12364	12372	179.5	89.4	DROP
164227	4119	4231	119	132	-54.6	-58.9	249	47	12366	12414	179.5	87.4	DROP
164808	4053	4140											DROP
165410	4026	4049	120	138	-56.7	-60.2	234	60	12364	12510	179.5	86.9	DROP
165705	4020	3958	339	324	-60.5	-61.6	236	65	12222	12483	158.5	88.2	DROP
170732	4115	4000	0	347	-36.9	-57.3	220	68	8195	8152	344.7	128.4	127K DROP
171105	4144	4000	0	347	-37.9	-53.5	219	67	8192	8114	344.7	123.9	DROP
171750	4241	4000	0	349	-38.8	-53.0	213	66	8192	8040	344.7	125.3	DROP
172327	4328	4000	0	349	-40.7	-53.7	215	60	8192	8003	344.8	126.4	DROP
172950	4420	4000	0	351	-41.7	-54.5	216	52	8194	7959	344.7	128.1	DROP
173607	4510	4000	0	350	-43.6	-55.4	222	49	8193	7920	344.6	128.0	DROP
174235	4600	4000	0	348	-44.4	-56.7	227	49	8191	7887	344.6	123.4	DROP
1749													CIRCLE
175630	4604	3832	0	345	-43.1	-56.5	273	67	8189	7902	344.9	123.9	DROP
175936	4604	3758	84	105	-42.7	-45.4	207	73	8190	7930	344.8	124.8	DROP
180521	4606	3656	85	104	-41.1	-44.5	211	71	8189	7952	344.9	124.3	DROP
181520													1 CIRCLES
182113	4608	3446	162	122	-39.8	-40.5	216	63	8192	8024	344.7	122.5	DROP
182455	4606	3407	87	103	-39.7	-40.7	219	62	8190	8046	344.7	119.2	DROP
183159	4605	3247	88	104	-38.7	-38.2	229	71	8190	8082	344.8	119.0	DROP
183928	4603	3117	89	106	-37.3	-37.8	232	75	8188	8147	344.8	118.1	DROP
184621	4600	3000	86	99	-37.3	-41.6	233	68	8187	8187	344.7	116.3	T DROP
184851	4600	2930	86	98	-37.1	-41.5	235	66	8183	8199	345.0	117.8	DROP
185320	4600	2838	86	98	-37.3	-39.1	238	63	81				

970218N

TIME	LOT	LON	TK	HD	TA	TO	WD	WS	PA	GA	SP	QC	REMARKS
210932	49 49	16 11	47	40	-38.8	-39.9	265	47					DROP
211808	50 33	14 50	48	41	-39.9	-41.6	265	48	8186	8156	345.2	130.8	DROP
212648	51 18	13 25	49	40	-40.4	-42.8	274	53	8187	8132	345.2	131.4	DROP
213432	51 57	12 06	52	44	-40.8	-44.3	276	56	8184	8097	345.2	129.9	DROP

FASTEX

Flight #16 N970218

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.

Radar altimeter (HGM232) had spike prior to takeoff (1523:00-1526:21) and at landing(2202:58-2205:00). HGM232 was erroneous at 1533:10-1533:40, 1606:45-1616:00, 1705:20-1705:40, and 2143:20-2143:30.

DPRC exceeded ambient temperature (AT1) during ascent (1526:30-1534:00), from 1921:30-1921:40, 2016:40-2017:20, and during descent (2141:00-2145:00).

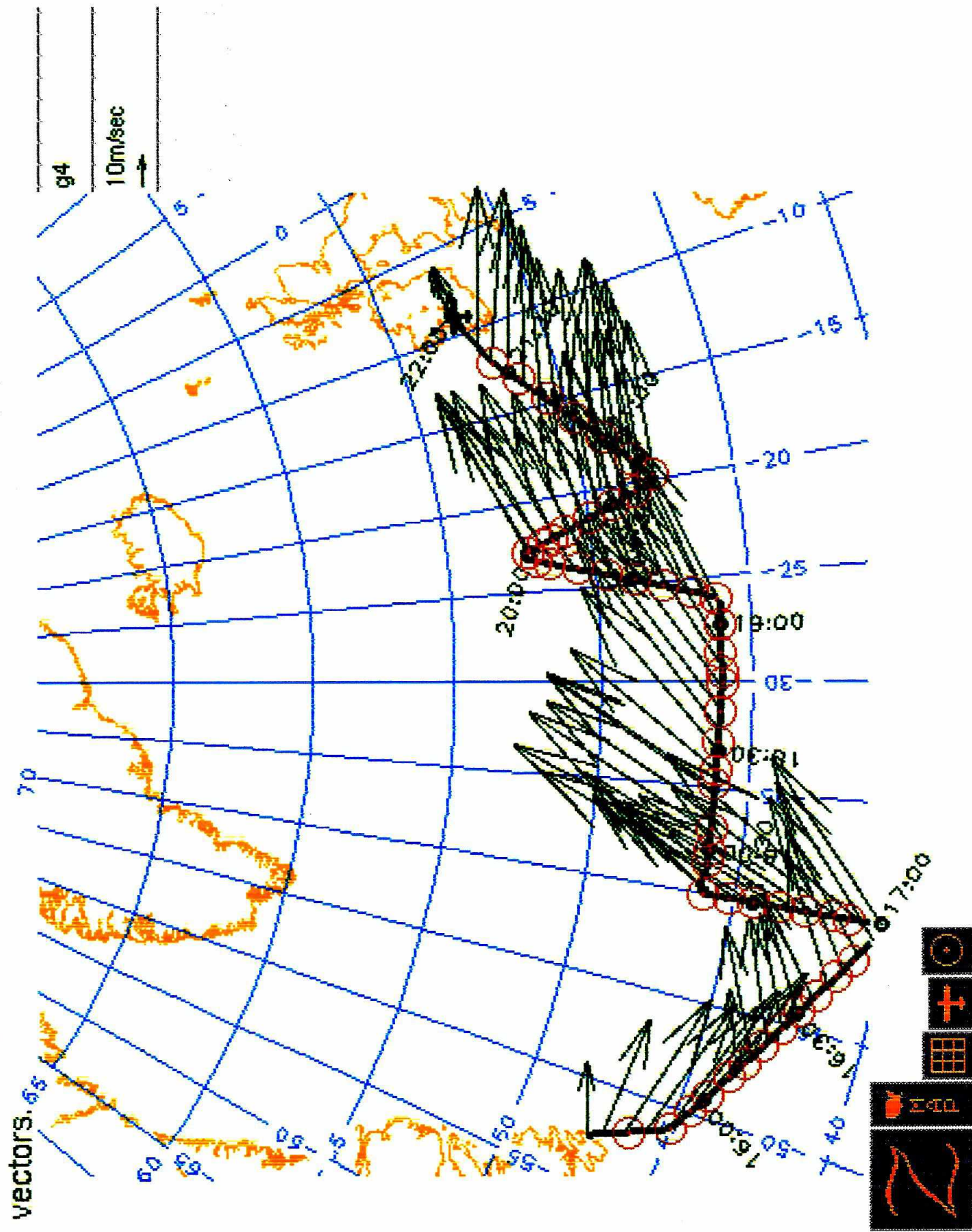
QC1M had spike 1747:00-1753:00 due to aircraft circling.

Aircraft circled at 1749Z and 1815Z.

	<u>Takeoff</u>	<u>Landing</u>
Aircraft static pressure	1001.4	1018.3
Corrected tower pressure	1015.9	NA

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

vectors. ⁵



970218N

ATI

DPRC

VIEW - PITA

VNS - PITA

H6ALT ~~GPALT~~

~~GPALT~~

PSIM

QCIM

H6ALT

- GPALT SPIKE DOWN 1951:40 - 1952:10
- GPALT SPIKE UP THEN DOWN 2013:40 - 2014:20
- GPALT UPWARD OFFSET 1952:00 - 1954:00
- GPALT UPWARD OFFSET 2100:10 - 2104:00
- GPALT DOWNWARD SPIKE 2103:40 - 2104:00
- GPALT DOWNWARD DROP 2117:40 - 2118:00
- GPALT UPWARD OFFSET 1633:40 -
- GPALT UPWARD JUMP 1633:40 - 1633:50
- GPALT UPWARD JUMP 1655:50 - 1656:00
- GPALT DOWNWARD DIP 1754:00 - 1754:30

DBPI OUT TO LUNCH ALL FLIGHT

~~GPALT 1957:00 - 2120:00 UNSTABLE~~

PSIM + PSAM within 1MB entire flight Avg 0.72 MB diff

SSRDI SPIKE 2142:20 - 2143:00

WS + WD EXCESSIVE ~~ERROR~~ ^{ERROR} WITH PITCH + IAS CHANGES

DPRC + DPLC SPIKE @ 2205:40 AFTER LANDING
ALL ON MOST PARAMETERS SPIKED

RUN NIMBUS ONLY TO 2205:00 AVOID ALL SPIKES

PSURF TOO LOW 1604:00 - 1705:00

QCIM + QCAM SPIKE @ 1747:00 - 1753:00

- HGA CT SPIKE PRIOR TO TAKEOFF 1523:00 - 1526:21 ✓
- AT LANDING 2202:58 - 2205:00 ✓
- HGA CT 1533:10 - 1533:40 ~~SPR~~ JUMP ✓
- HGA CT 1606:45 - 1607:00 ~~SPR~~ JUMP ✓
- HGA CT 1606:45 - 1616:00 ERRONEOUS ✓
- HGA CT 1705:20 - 1705:40 ~~SPR~~ JUMP ✓
- HGA CT 2143:20 - 2143:30 JUMP ✓
- DRC exceeds AT1 at takeoff 1526:30 - 1534:00 ✓
 1921:30 - 1921:40 ✓
 2016:40 - 2017:20 ✓
 2141:00 - 2145:00 ✓
- CIRCLE PERFORMED @ 1749Z, 1815Z

Delta St. John's Hotel & Conference Centre

120 New Gower Street, St. John's, Newfoundland A1C 6K4 □ Tel: (709) 739-6404 Fax: (709) 570-1622

St Johns	AS30Z	Duration	Distance	Sondes	Total Sondes	FL270 THS:430
45N 51W	1548Z	0H48mn	454nm	1	2	
45N 51W	1548Z	0H48mn	454nm	1	13	
40N 40W	1658Z	1H28mn	722nm	1	14	
40N 40W	1658Z	1H28mn	722nm	6	20	
46N 40W	1741Z	2H11mn	1085nm	1	21	
46N 30W	1826Z	2H56mn	1494nm	6	27	
46N 26W	1845Z	3H15mn	1665nm	1	28	
52.5N 23W	1953Z	4H05mn	2074nm	2	30	
47.5N 20W	2020Z	4H50mn	2397nm	1	31	
52.0N 12W	2108Z	5H38mn	2805nm	5	37	
Shannon	2121Z	5H51mn	2926nm	1	38	
				0	43	
				1	44	
				1	49	
				1	50	
				0	50	

GL Box: 12-30W 46N-56N
1600Z - 2000Z



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St Johns	AS30Z	Duration	Distance	Sondes	Total Sondes	FL 270 THS: 430
45N 51W	1548Z	0H48mn	454nm	1	2	
45N 51W	1548Z	0H48mn	454nm	11	13	
40N 40W	1658Z	1H28mn	722nm	1	14	
40N 40W	1658Z	1H28mn	722nm	6	20	
46N 40W	1741Z	2H11mn	1085nm	1	21	
46N 30W	1826Z	2H56mn	1494nm	1	22	
46N 26W	1845Z	3H15mn	1665nm	1	31	
52.5N 23W	1953Z	4H05mn	2074nm	1	38	
47.5N 20W	2020Z	4H50mn	2397nm	1	43	
52.0N 12W	2108Z	5H38mn	2805nm	1	44	
Shannon	2121Z	5H54mn	2926nm	1	50	

GL Box: 12-30W 46N-56N
1600Z - 2000Z

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Not
Above 26K

^{Fr.} Jim MacFadden. for Stanley Physic
353 - 0 - 874 - 2371

2000 L

DIANE	320
CARLOS	417
CARLOS	304
MEL	308 319
Tom	302
ALAN	231
me	307
G	311
JP.	315
GORDON	317
MARK	318
RON	321
MIKE	225

0730 L

Meeting
Lobby

30.01

DRIPS

- 1) ~~46° 13' N 51° 54' W~~
- 2) ~~45° 00' N 51° 00' W 29K~~
- 3) ~~44° 38' N 50° 00' W~~
- 4) ~~44° 13' N 49° 03' W~~
- 5) ~~43° 41' N 48° 04' W~~
- 6) ~~43° 28' N 47° 05' W~~
- 7) ~~43° 03' N 46° 10' W~~
- 8) ~~42° 37' N 45° 13' W~~
- 9) ~~42° 12' N 44° 19' W~~
- 10) ~~41° 46' N 43° 25' W~~
- 11) ~~41° 19' N 42° 31' W~~
- 12) ~~40° 53' N 41° 40' W~~
- 13) ~~40° 26' N 40° 49' W~~
- 14) ~~40° 00' N 40° 00' W~~
- 15) ~~40° 52' N 40° 00' W~~
- 16) ~~41° 44' N 40° 00' W~~
- 17) ~~42° 36' N 40° 00' W~~
- 18) ~~43° 28' N 40° 00' W~~
- 19) ~~44° 20' N 40° 00' W~~
- 20) ~~45° 10' N 40° 00' W~~
- 21) ~~46° 00' N 40° 00' W~~
- 22) ~~46° 00' N 38° 33' W~~
- 23) ~~46° 00' N 37° 05' W~~ ← INSERT SPECIAL POINT
- 24) ~~46° 00' N 35° 40' W~~
- 25) ~~46° 00' N 34° 13' W~~
- 26) ~~46° 00' N 32° 52' W~~
- 27) ~~46° 00' N 31° 22' W~~
- 28) ~~46° 00' N 30° 00' W~~
- 29) ~~46° 00' N 28° 39' W~~
- 30) ~~46° 00' N 27° 20' W~~
- 31) ~~46° 00' N 26° 00' W~~
- 32) ~~46° 55' N 25° 37' W~~
- 33) ~~41° 50' N 25° 14' W~~
- 34) ~~48° 45' N 24° 51' W~~
- 35) ~~49° 40' N 24° 25' W~~
- 36) ~~50° 35' N 24° 00' W~~
- 37) ~~51° 30' N 23° 32' W~~
- 38) ~~52° 30' N 23° 00' W~~

DESCEND

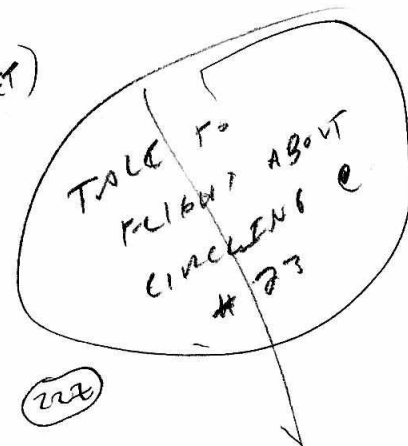
← INSERT SPECIAL POINT
(SHIP) (REPLACE)

- 39) ~~51° 40' N 22° 28' W~~
- 40) ~~50° 50' N 21° 56' W~~
- 41) ~~50° 00' N 21° 24' W~~
- 42) ~~49° 10' N 20° 54' W~~
- 43) ~~48° 20' N 20° 26' W~~
- 44) ~~47° 30' N 20° 00' W~~
- 45) ~~48° 17' N 18° 50' W~~
- 46) ~~49° 05' N 17° 30' W~~
- 47) ~~49° 49' N 16° 12' W~~
- 48) ~~50° 33' N 14° 50' W~~
- 49) ~~51° 17' N 13° 25' W~~
- 50) ~~52° 00' N 12° 00' W~~

51)

(NEW SHEET)

5NN 1/520
2130Z



550
500

EVEREST

1/4
7/11
3/4

22Z

44N → 41K

10°

42.7
0530

4130N

230/09

4639N
4432W

1820Z

19-04Z

22015 10KM SCT 2KCS

Temp 19-21Z

28024635 SK SHOWERS SCT 8 BKN 01800

2201Z

20018618 BKN 6 140W 15027643

BKN 14 OVC 1.5K

52.40'
8.52'

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52.0N 12W	2108Z	5H38mn	2805nm	1	37	
Shannon	2124Z	5H54mn	2926nm	5	38	
				1	43	
				5	44	
				1	49	
				1	50	
				0	50	

GL Box: 12-30W 46N-56N
2000Z - 2009Z

GL Box: 12-30W 46N-56N
1600Z - 2000Z