

U.S. Dept. of Commerce / NMAO / NOAA / Aircraft Operations Center

Flt ID: 030915N	From: CYT	To: CYT
Flt. No: 04-16	Blk In: 2136z ³⁶ ₁₇	Time On: 2132z
ETD: 1530z	Blk Out: 1543z ⁵³	Time Off: 1554z
ETE: 6+15	Blk Time: 5+53 [5.9] Hrs	Flt Time: 5+30 [5.6] Hrs
Sponsoring Org: OAR	Program: TREC	Purpose: FLT # 1

AOC Flight Crew

Aircraft Commander: McCann, B	Data System: Hornbrook, C
Co-Pilot: Maxson, B, Finn, M	AVAPS: Brogan, D
Navigator:	System Eng: Hill, J
Flight Eng: Rottevel, K,	A A: McFadden, J
Flight Director: Flaherty, P,	A A:
Avionics:	Crew Chief:

Participating Scientists / Visitors

Name (Last, First)	Activity on Aircraft	Affiliation
SHAPIRO	PI	OAR

Remarks (Storm Name, Mission ID, Recco Times, Fix Times)

Recco Times

Fix # Fix Time

Storm Name:

Mission ID:

LATE TAKEOFF DUE TO
ATC PROBLEMS

- DUBLINERS
 SERVATED AS
 MUCH AS BC
 ATREC FLTOI
 PROJECT FLT #
- DPL FLATWED
 AT-95.73C
- DPL EXCHANGE 1953/1958

(See reverse for additional remarks)

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Flight ID: 031115 Time Off: 1554 Time On: 1600

	A/C - Takeoff	Wx Station - Takeoff	A/C - Land	Wx Station - Land
Pressure	<u>971.5</u>	<u>29.15</u>	<u>973.9</u>	<u>29.25</u>

	Number	Data Disposition / Date / Quality
Flight Level Tapes		
Radar Tapes		
Cloud Physics Tapes / CDs		
Video Tapes		
Dropsondes		Good: Bad:
AXBT		
AXCP		
AXCTD		

Remarks:

21 SONDES / 18 OBS
 3 BAD SONDES
 PROBLEMS w 7 of 21 (includes 3 BAD SONDES)
~~20~~

N49RF AVAPS DropSonde Log

N49RF Project: TOAST Flight ID 031115N

Mission: TOAST Flight #: RFO1 Launcher S/N: 02 Status: Sys 1 ☒ Sys 2 ☐

Drop #	Sonde Serial Number	Chn. #	Time (Zulu)	Press. offset	Winds time	Operator Initials	Comments / Drop Status/ Failure Reason	GOOD ☒
1	023235099	1	1611	0	30	JH	IAS=318	✓
2	023235097	2	1624	0	18	JH	IAS=318	✓
3	022945106	1	1637	0	23	JH	IAS=304	✓
4	022925007	2	1650	0	23	JH	IAS=307	✓
5	022815018	1	1703	0	17	JH	IAS=302; No Temp, NO Hum, GeoAlt	—
6	022625077	2	1706	0	32	JH	IAS=300	✓
7	022625087	3	1715	0	—	JH	IAS=304; No Launch Det	—
8	022815127	4	1717	0	18	JH	Lossed winds after 400sec	?
9	022815022	1	1727	0	18	JH	IAS=302	✓
10	021925323	2	1739	0	14	JH	IAS=304	✓
11	022815021	1	1750	0	11	JH	IAS=304;	✓
12	022625083	2	1802	0	22	JH	IAS=309	✓
13	022945107	1	1820	0	19	JH	IAS=294	✓
14	021735327	1	1839	0	17	JH	IAS=294	✓
15	022625004	1	1900	0	—	JH	IAS=281; No launch detect	—
16	022625076	1	1901	0	21	JH	IAS=281	✓
17	022625060	1	1921	0	21	JH	IAS=304	✓
18	022945108	1	1942	0	25	JH	IAS=286	✓
19	022925014	1	2007	0	18	JH	IAS=303	✓
20	033845236	1	2030	0	17	JH	IAS=305; REV.D	✓
21	033845245	1	2047	0	28	JH	IAS=303; REV.D	✓
22								
23								
24								
25								
26								
27								
28								
29								
30								
31								
32								
33								

G-IV Error Summary

Flight # 031115n

(TReC Flight #1)

Block out: 1543z
Take-off: 1554z
Landing: 2132z
Block in: 2136z

Block Time: 5.9
Flight Time: 5.6

Total number of drops: 21
Total number of observations: 18

Flight Summary:

Take off was delayed 24 minutes due to Air Traffic Control. The mission was a cigar pattern up to 60N/30W and back.

DPL and DPR were separated as much as 8 degrees C. It was noticed and reported that DPL flat lined at approximately -47C. DPL was balanced from 1953-1958z. It was noted that DPR should be used as the primary Dewpoint sensor for the remainder of the TReC mission.

Aircraft encountered light-moderate turbulence at 2015z - 2030z.

	Corrected Aircraft Altimeter	Station Altimeter
Take-off	987.1	987.1
Landing	989.5	990.5

Paul T. Flaherty
Flight Director
(813) 828-3310 x3094

N49RF AOC Flight Director's GPS Dropwindsonde Log

FLIGHT ID 031115N FLIGHT DIRECTOR FLAHERTY Page 1 of 1

MISSION ID ATREC STORM/Track ID FLTO1 Total # of dropsondes 21

#	Sonde ID	Time (Z)	Lat N / S	Lon W / E	Weather Conditions	Winds	Surface Press.	Ob #	WMO KWBC #	Send Time	Sat Com Fails
1	023235099	161108	49.00	51.00	FEW SC	30	986.1	1	163300	1635	0
2	023235097	162458	50.28	4917	BKN SC	18	982.8	2	163300	1655	0
3	022945106	163759	5146	4710	FEW CI BKN SC	23	X	3	171532	1714	0
4	022938007	165818	5300	4500	OVC SC	23	982.9	4	171601	1714	0
5	022845018	170306	5425	4240	OVC AS	17	BAD		SEND		
6	022625077	170621	5417	4204	OVC AS	18	988.2	5	172813	1737	0
7		171007			OVC AS				NO LAUNCH DETECT		
8	022815127	171624	5545	4025	OVC AS	18	990.2	6	173712	1737	0
9	022815022	172710	5654	3753	OVC AS	18	993.4	7	175540	1759	0
10	021925323	173938	5758	3504	SCCI BKN AS	15	X	8	180027	1759	0
11	022815021	175055	5900	3238	OVC AS	15	X	9	181154	1830	0
12	022625083	180147	5952	3007	OVC CI	22	1010.4	10	182840	1830	0
13	022945107	182022	5819	3213	OVC CI	19	1006.8	11	184030	1840	0
14	021925327	183957	5639	3416	OVC CI	17	997.7	12	185859	1925	0
15	022625004	185112			NO LAUNCH DETECT						
16	022625076	190101	5505	3620	OVC CI	21	992.7	13	192545	1925	0
17	022625080	192135	5337	3814	OVC CI	21	991.8	14	194130	1957	0
18	022945108	194315	5053	4000	OVC AC	25	994.0	15	195842	1957	0
19	022928014	200747	5053	4254	OVC SC	18	994.4	16	205344	2052	0
20	03385236	203020	4953	4534		17	995.1	17	205323	2052	0
21	03385245	204641	4920	4801		28	993.8	18	210622	2105	0
22											
23											
24											
25											

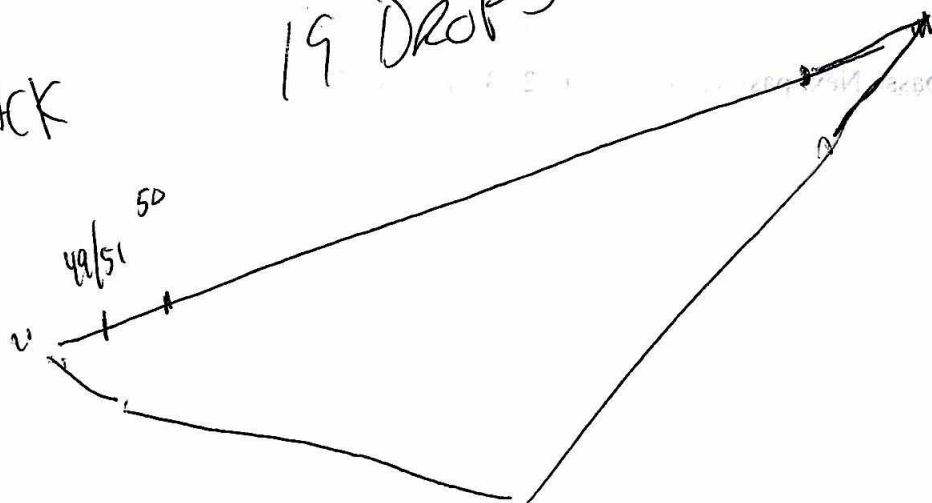
LOST WINDS

DIED EARLY DUE TO EARLY

LATE LAUNCH DETECT

TRACK

19 DROPS



DROP

LAT LON

1) 49 / 51

2) ~~50 50~~ 50° 29' / 49 20'

3) 50° 45' / 47 10'

4) 53° / 45°

5) 54° 25' / 42° 40'

6) 55° 40' / 40° 20'

7) 56° 50' / 37° 50'

8) 57° 55' / 35° 05'

9) 58° 55' / 32° 32'

10) 60° / 30°

11) 58° / 32° 35'

12) 56° 38' / 34° 10'

13) 55° 08' / 36° 15'

14) 53° 25' / 38° 27'

15) 52° / 40°

16) 50° 50' / 42° 50'

17) ~~50 50~~ 49° 45' / 45° 28'

18) 49° / 47° 40'

19) 48° / 50°

47 37

52 44

NAV CANADA

Significant Weather Prognostic Chart for FL250 to FL630 valid on 2003 11 16 :
Source NOAA / NWS.