Appendix A: Marker Files

The MKR file contains an ASCII listing of specific times and locations during the flight when the pilot toggles the "on/off" switch or presses the "event" buttons on the control switch box. This file is used to mark the start and end of flux legs, profiles, or other specific maneuvers. When the marker switch is turned "on", a three-character string of XXX, a value of "-1", the scan number (i.e., number of elapsed seconds since the start of data acquisition), and current latitude and longitude are written to the MKR file. Similarly, a value of "0" is written with the time and location information when the marker switch is turned off. The event switch is used to mark a specific event during flight (e.g., flying over a buoy, crossing the coastline). An event is recorded in the MKR file with a three-character string of EVT along with the scan number, latitude and longitude. The MKR file is manually edited at the end of the flight. The default character string of XXX is usually replaced with three-character identifiers that are used to describe the marker pair. For example, FLX is used to denote a flux leg while PRO is used to indicate a profile. Other manually edited notes include a summary of the weather conditions, flight plan, problems encountered, and other remarks that may be helpful during data analysis. Listed below are three-character identifiers which describe these marker pairs for CBLAST-Low.

ACC	Acceleration Calibration Maneuver	PRO	Profile Sounding
ERR	Error	PTC	Pitch Calibration Maneuver
EVT	Event	STC	Static
FLX	Flux Leg	WAG	Wag (Roll) Calibration Maneuver
FRY	Ferry	WCL	Wind Circle Left (counterclockwise)
IRC	Infrared Camera Run	WCR	Wind Circle Right (clockwise)
MSG	Message	YAW	Yaw Calibration Maneuver

```
CBLAST-Low Pilot Study - Summer 2001

  Flight: 01
    Date: 21 JUL 01 (Saturday)
Duration: 3.4 hr
   Pilot: Timothy L. Crawford

Summary: First flight, roll and pitch calibrations, profile, 12 north-south flux
         legs, and profile.  Flux legs centered over 41/ 11' N,  70/ 35' W,
         headings of 20/ and 200/.

Weather: Region dominated by high pressure, clear skies, relatively dry
         conditions, winds initially calm, increasing to 8 kts from the SW.

MVY ATIS: 1053 UTC   calm 10V clear 12//11/ 30.08
MVY ATIS: 1153 UTC   calm 10V clear 18//13/ 30.09
MVY ATIS: 1353 UTC 200/05 10V clear 22//13/ 30.07
MVY ATIS: 1453 UTC 220/08 10V clear 21//14/ 30.08
MVY ATIS: 1553 UTC 220/08 10V clear 22//13/ 30.08

Instrumentation Notes & Comments:

IRGA #2 installed
Five Riegl laser altimeters installed
NASA Ka-band radar scatterometer installed
```

```
Roll accelerometer in right wing not functioning properly
L4 "glint" laser not functioning because of partial lens blockage

Marker for D:07211228.ORG OPENED at 565109

STC -1 00017 12:58:45  41 23.3   -70 36.8 all systems on
     0 00183 13:01:31  41 23.3   -70 36.8
WAG -1 00688 13:09:56  41 18.1   -70 37.8 roll wag cal for radar
     0 00768 13:11:16  41 15.8   -70 37.3
PTC -1 00789 13:11:37  41 15.2   -70 37.2 pitch up/dn cal for radar
     0 00844 13:12:32  41 13.7   -70 37.0
PRO -1 00905 13:13:33  41 11.9   -70 36.5 profile up to 3700' (1130 m)
     0 01340 13:20:48  41 11.3   -70 37.0
PRO -1 01340 13:20:48  41 11.3   -70 37.0 profile down from 3700' (1130 m)
     0 01721 13:27:09  41 09.6   -70 36.1
FLX -1 02146 13:34:14  41 19.8   -70 33.9 flux leg south (185/)
     0 02763 13:44:31  41 02.7   -70 35.9
FLX -1 02955 13:47:43  41 01.2   -70 36.4 flux leg north (005/)
     0 03547 13:57:35  41 19.1   -70 34.0
FLX -1 03714 14:00:22  41 20.1   -70 33.8 flux leg south (185/)
     0 04359 14:11:07  41 02.8   -70 35.9
FLX -1 04505 14:13:33  41 01.6   -70 36.2 flux leg north (005/)
     0 05106 14:23:34  41 19.9   -70 33.8
FLX -1 05292 14:26:40  41 20.2   -70 33.7 flux leg south (185/)
     0 05923 14:37:11  41 03.0   -70 35.8
FLX -1 06235 14:42:23  41 04.9   -70 36.0 flux leg north (005/)
     0 06689 14:49:57  41 19.2   -70 33.9
FLX -1 06911 14:53:39  41 19.6   -70 34.3 flux leg south (185/)
     0 07520 15:03:48  41 02.9   -70 35.9
FLX -1 07709 15:06:57  41 01.8   -70 36.2 flux leg north (005/)
     0 08270 15:16:18  41 19.0   -70 34.0
FLX -1 08430 15:18:58  41 20.3   -70 33.7 flux leg south (185/)
     0 09075 15:29:43  41 02.8   -70 35.9
FLX -1 09298 15:33:26  41 00.9   -70 36.1 flux leg north (005/)
     0 09908 15:43:36  41 19.0   -70 34.0
FLX -1 10041 15:45:49  41 20.2   -70 33.8 flux leg south (185/)
     0 10692 15:56:40  41 02.5   -70 35.9
FLX -1 10870 15:59:38  41 00.5   -70 36.7 flux leg north (005/)
     0 11469 16:09:37  41 19.3   -70 33.9
MSG    11472 16:09:40                     BAT 0 frequency slow: Freq=49
MSG    11472 16:09:40                     BAT 1 frequency slow: Freq=49
PRO -1 11678 16:13:06  41 15.1   -70 35.6 profile up to 1300' (400 m)
     0 12097 16:20:05  41 16.0   -70 34.6

Marker for D:07211228.ORG CLOSED at 577742

Total scans:   12633
Missed Ints:   00000
      BAT A: 0631649 of 0631650 000.000% Dropouts
      BAT B: 0631649 of 0631650 000.000% Dropouts
        ASH: 0063165 of 0063165 000.000% Dropouts
        TAN: 0123702 of 0126330 002.080% Dropouts


CBLAST-Low Pilot Study - Summer 2001

  Flight: 02
    Date: 22 JUL 01 (Sunday)
Duration: 1.4 hr
   Pilot: Timothy L. Crawford

Summary: Early morning SAR flight, overpass at 1049 UTC.  Profile, simple box
         pattern, profile.

Weather: Region dominated by high pressure, clear skies, slight increase in
```

humidity. Winds initially calm, increasing to 5 kts from the SW.

MVY ATIS: 0943 UTC calm 10V clear 16//16/ 30.04
MVY ATIS: 0953 UTC calm 10V clear 16//16/ 30.04
MVY ATIS: 1053 UTC 240/05 09V clear 18//17/ 30.04

Instrumentation Notes & Comments:

Roll accelerometer in right wing not functioning properly
L4 "glint" laser not functioning because of partial lens blockage
Chilled mirror dew point sensor was over-aspirated resulting in bad data

Marker for D:07220953.ORG OPENED at 036285

```
STC -1 00012 10:04:56  41 23.3   -70 36.8 all systems on
     0 00072 10:05:56  41 23.3   -70 36.8
PR0 -1 00483 10:12:47  41 18.8   -70 35.0 profile down from 2600' (800 m)
     0 00632 10:15:16  41 14.3   -70 34.0
FLX -1 00633 10:15:17  41 14.3   -70 34.0 SAR flux leg south (185/)
     0 01334 10:26:58  40 54.5   -70 36.2
FLX -1 01371 10:27:35  40 53.8   -70 35.3 SAR flux leg east (100/)
     0 02227 10:41:51  40 50.2   -70 00.6
FLX -1 02281 10:42:45  40 51.2   -69 59.4 SAR flux leg north (000/)
EVT    02491 10:46:15  40 58.0   -70 00.1 visible surface discontinuity
EVT    02622 10:48:26  41 02.3   -70 00.3 visible surface discontinuity
     0 02845 10:52:09  41 09.6   -70 00.0
FLX -1 02888 10:52:52  41 10.4   -70 01.2 SAR flux leg west (275/)
     0 03787 11:07:51  41 15.3   -70 36.0
PRO -1 03793 11:07:57  41 15.3   -70 36.2 profile up to 3000' (900 m)
     0 04388 11:17:52  41 14.4   -70 32.8
STC -1 04915 11:26:39  41 23.3   -70 36.8 preparing to shut down all systems
     0 04976 11:27:40  41 23.3   -70 36.8
```

Marker for D:07220953.ORG CLOSED at 041263

```
Total scans:   04978
Missed Ints:   00000
      BAT A: 0248900 of 0248900 000.000% Dropouts
      BAT B: 0248900 of 0248900 000.000% Dropouts
        ASH: 0024890 of 0024890 000.000% Dropouts
        TAN: 0048768 of 0049780 002.033% Dropouts
```

CBLAST-Low Pilot Study - Summer 2001

```
  Flight: 03
    Date: 23 JUL 01 (Monday)
Duration: 2.4 hr
   Pilot: Timothy L. Crawford
```

Summary: Early afternoon flight, six north-south flux legs, multiple short altitude profiles, roll and pitch calibrations.

Weather: Thick early morning fog, clearing by late morning, SW winds.

MVY ATIS: 1552 UTC 220/02 10V scat 24//20/ 30.04
MVY ATIS: 1752 UTC 240/09/G18 10V clear 25//21/ 30.02
MYV ATIS: 1852 UTC 240/10/G18 10V clear 25//21/ 29.99

Instrumentation Notes & Comments:

Roll accelerometer in right wing not functioning properly
L4 "glint" laser now functioning properly, however with a few drop outs
Aspiration on chilled mirror dew point sensor fixed

```
Marker for D:07231646.ORG OPENED at 147015

STC -1 00004 16:50:18  41 23.3   -70 36.8 all systems on
     0 00060 16:51:14  41 23.3   -70 36.8
PRO -1 00643 17:00:57  41 16.5   -70 35.9 profile up/dn to 3500' (1050 m)
     0 01105 17:08:39  41 17.0   -70 32.9
PRO -1 01105 17:08:39  41 17.0   -70 32.9 profile down from 3500' (1050 m)
     0 01375 17:13:09  41 17.2   -70 31.6
FLX -1 01410 17:13:44  41 16.5   -70 32.6 flux leg south (180/)
     0 02250 17:27:44  40 54.4   -70 35.9
PRO -1 02250 17:27:44  40 54.4   -70 35.9 profile up/dn to 500' (150 m)
     0 02438 17:30:52  40 52.7   -70 36.3
FLX -1 02438 17:30:52  40 52.7   -70 36.3 flux leg north (000/)
     0 03212 17:43:46  41 17.9   -70 35.2
PRO -1 03212 17:43:46  41 17.9   -70 35.2 profile up/dn to 500' (150 m)
     0 03369 17:46:23  41 20.0   -70 35.7
FLX -1 03369 17:46:23  41 20.0   -70 35.7 flux leg south (180/)
     0 04310 18:02:04  40 54.5   -70 35.9
PRO -1 04310 18:02:04  40 54.5   -70 35.9 profile up/dn to 500' (150 m)
     0 04466 18:04:40  40 51.8   -70 35.3
FLX -1 04466 18:04:40  40 51.8   -70 35.3 flux leg north (000/)
     0 05302 18:18:36  41 19.3   -70 34.0
PRO -1 05302 18:18:36  41 19.3   -70 34.3 profile up/dn to 500' (150 m)
     0 05451 18:21:05  41 19.8   -70 33.3
FLX -1 05453 18:21:07  41 19.8   -70 33.3 flux leg south (180/)
     0 06373 18:36:27  40 54.3   -70 35.9
PRO -1 06373 18:36:27  40 54.3   -70 35.9 profile up/dn to 500' (150 m)
     0 06603 18:40:17  40 52.9   -70 35.4
FLX -1 06603 18:40:17  40 52.9   -70 35.4 flux leg north (000/)
     0 07389 18:53:23  41 19.3   -70 36.2
PRO -1 07389 18:53:23  41 19.3   -70 36.2 profile up/dn to 500' (150 m)
     0 07539 18:55:53  41 19.2   -70 36.6
PTC -1 07539 18:55:53  41 19.2   -70 36.6 pitch up/dn cal for radar
     0 07664 18:57:58  41 16.6   -70 39.4
PRO -1 07697 18:58:31  41 16.0   -70 40.2 profile up to 3000' (930 m)
     0 08064 19:04:38  41 17.1   -70 40.6
PRO -1 08069 19:04:43  41 17.2   -70 40.8 descent into MVY
     0 08514 19:12:08  41 23.3   -70 36.8
STC -1 08518 19:12:12  41 23.3   -70 36.8 preparing to shut down all systems
     0 08575 19:13:09  41 23.3   -70 36.8

Marker for D:07231646.ORG CLOSED at 155595

Total scans:   08580
Missed Ints:   00000
      BAT A: 0429000 of 0429000 000.000% Dropouts
      BAT B: 0429000 of 0429000 000.000% Dropouts
        ASH: 0042900 of 0042900 000.000% Dropouts
        TAN: 0085572 of 0085800 000.266% Dropouts


CBLAST-Low Pilot Study - Summer 2001

  Flight: 04
    Date: 25 JUL 01 (Wednesday)
Duration: 2.0 hr
   Pilot: Timothy L. Crawford

Summary: Four north-south flux legs from near the coast over the 3D SST array
         to the ASIMET buoy plus another 5 nm.  Several transects at 1250'
         for the infrared/visible cameras.

Weather: Moderate SW winds with shallow "puffs" of fog moving over the region
         in the early afternoon at several hundred feet.  Visibility at 1250'
         was poor due to elevated fog.  Because of the poor visibility, visual
```

navigation and reference to surface ships and buoys was difficult.

MVY ATIS: 1552 UTC 270/10 10V clear 30//23/ 29.86
MVY ATIS: 1753 UTC 240/12 9V clear 26//23/ 29.85

Instrumentation Notes & Comments:

Roll accelerometer in right wing fixed
Chilled mirror dew point sensor questionable near end of flight (oversaturation)
University of Washington/WHOI infrared/visible camera system installed

Marker for D:07251641.ORG OPENED at 320051

```
STC -1 00052 16:55:02  41 23.3   -70 36.8 all systems on
     0 00126 16:56:16  41 23.3   -70 36.8
IRC -1 00497 17:02:27  41 20.7   -70 37.2 focus run for IR camera @ 1500' (460 m)
     0 00501 17:02:31  41 20.6   -70 37.2
EVT    00628 17:04:38  41 16.9   -70 34.6 over R/V Nobska @ 300' (90 m)
PRO -1 00683 17:05:33  41 15.7   -70 34.5 profile up to 3300' (1000 m)
     0 01097 17:12:27  41 17.1   -70 35.5
FLX -1 01245 17:14:55  41 20.3   -70 35.4 flux leg south (180/)
EVT    01455 17:18:25  41 15.2   -70 35.4 east of 3D SST array
     0 02228 17:31:18  40 54.4   -70 36.1
PRO -1 02228 17:31:18  40 54.4   -70 36.1 profile up/dn to 500' (150 m)
     0 02416 17:34:26  40 52.6   -70 35.6
FLX -1 02416 17:34:26  40 52.6   -70 35.6 flux profile north (000/)
EVT    02626 17:37:56  40 59.5   -70 35.8 over ASIMET buoy
EVT    03103 17:45:53  41 15.3   -70 35.5 over 3D SST array
     0 03244 17:48:14  41 19.9   -70 35.4
PRO -1 03244 17:48:14  41 19.9   -70 35.4 profile up/dn to 500' (150 m)
     0 03376 17:50:26  41 19.8   -70 34.0
FLX -1 03376 17:50:26  41 19.8   -70 34.0 flux profile south (180/)
     0 04357 18:06:47  40 55.3   -70 36.0
PRO -1 04357 18:06:47  40 55.3   -70 36.0 profile up/dn to 500' (150 m)
     0 04553 18:10:03  40 54.5   -70 35.0
FLX -1 04553 18:10:03  40 54.5   -70 35.0 flux profile north (000/)
EVT    04705 18:12:35  40 59.5   -70 35.8 over ASIMET buoy
EVT    05188 18:20:38  41 15.3   -70 35.5 over 3D SST array
     0 05317 18:22:47  41 19.5   -70 35.4
PRO -1 05317 18:22:47  41 19.5   -70 35.4 profile up to 3300' (1000 m)
EVT    05424 18:24:34  41 18.1   -70 34.1 over R/V Nobska
EVT    05574 18:27:04  41 14.5   -70 35.8 over 3D SST array
     0 05611 18:27:41  41 13.7   -70 36.5
IRC -1 05857 18:31:47  41 11.1   -70 38.5 IR camera run @ 1280' (390 m)
EVT    05992 18:34:02  41 15.4   -70 35.6 over 3D SST array
     0 06036 18:34:46  41 16.8   -70 34.6
IRC -1 06156 18:36:46  41 16.0   -70 32.6 IR camera run @ 1280' (390 m)
EVT    06256 18:38:26  41 15.3   -70 35.8 over 3D SST array
     0 06327 18:39:37  41 15.6   -70 38.3
EVT    06507 18:42:37  41 15.7   -70 35.2 over 3D SST array
EVT    06621 18:44:31  41 19.4   -70 33.9 over R/V Nobska
```

Marker for D:07251641.ORG CLOSED at 327168

```
Total scans:   07117
Missed Ints:   00000
      BAT A: 0355850 of 0355850 000.000% Dropouts
      BAT B: 0355850 of 0355850 000.000% Dropouts
        ASH: 0035585 of 0035585 000.000% Dropouts
        TAN: 0069897 of 0071170 001.789% Dropouts
```

CBLAST-Low Pilot Study - Summer 2001

Flight: 05

```
    Date: 27 JUL 01 (Friday)
Duration: 4.0 hr
   Pilot: Timothy L. Crawford

Summary: Profile, four north-south flux legs from Katama to ASIMET buoy,
         profile, four upwind/downwind flux legs, profile, and infrared
         camera runs.

Weather: Cold front moved through previous evening, northeasterly
         flow creating a well mixed, unstable marine atmospheric boundary
         layer, strong winds off shore in the morning.

MVY ATIS: 0924 UTC 020/08 10V clear 13//11/ 30.17
MVY ATIS: 0952 UTC 020/08 10V clear 13//11/ 30.19
MVY ATIS: 1052 UTC 020/11 10V clear 16//10/ 30.20
MVY ATIS: 1152 UTC 030/11 10V clear 16//10/ 30.22
MVY ATIS: 1452 UTC 040/12 10V clear 19//09/ 30.22
MVY ATIS: 1555 UTC 040/08 10V clear 19//08/ 30.23

Instrumentation Notes & Comments: None

Marker for D:07271211.ORG OPENED at 477092

STC -1 00023 12:31:54  41 23.3   -70 36.8 all systems on
     0 00084 12:32:55  41 23.3   -70 36.8
PRO -1 00606 12:41:37  41 24.9   -70 29.7 profile up to 4600' (1400 m)
     0 01160 12:50:51  41 21.8   -70 24.3
PRO -1 01162 12:50:53  41 21.8   -70 24.3 profile dn from 4600' (1400 m)
     0 01345 12:53:56  41 20.6   -70 32.1
FLX -1 01351 12:54:02  41 20.5   -70 32.3 flux leg south (190/)
     0 02141 13:07:12  40 53.7   -70 37.1
PRO -1 02141 13:07:12  40 53.7   -70 37.1 profile up/dn to 500' (150 m)
     0 02347 13:10:38  40 50.7   -70 38.5
FLX -1 02347 13:10:38  40 50.7   -70 38.5 flux leg north (010/)
     0 03573 13:31:04  41 20.7   -70 31.7
FLX -1 03610 13:31:41  41 20.3   -70 32.3 flux leg south (185/)
     0 04382 13:44:33  40 53.5   -70 37.4
PRO -1 04382 13:44:33  40 53.5   -70 37.4 profile up/dn to 500' (150 m)
     0 04597 13:48:08  40 50.3   -70 38.7
FLX -1 04597 13:48:08  40 50.3   -70 38.7 flux leg north (010/)
     0 05793 14:08:04  41 20.6   -70 31.9
FLX -1 05853 14:09:04  41 19.7   -70 32.8 flux leg south (185/)
     0 06613 14:21:44  40 53.8   -70 37.1
PRO -1 06619 14:21:50  40 53.6   -70 37.1 profile up/dn to 4600' (1400 m)
EVT    07055 14:29:06  41 01.6   -70 35.0 top of profile
     0 07337 14:33:48  41 07.1   -70 28.0
FLX -1 07394 14:34:45  41 07.2   -70 28.9 flux leg southwest (215/)
     0 07954 14:44:05  40 50.9   -70 43.9
FLX -1 08005 14:44:56  40 50.4   -70 43.2 flux leg northeast (030/)
     0 08807 14:58:18  41 08.2   -70 29.6
FLX -1 08852 14:59:03  41 08.2   -70 30.5 flux leg southwest (210/)
     0 09426 15:08:37  40 50.5   -70 42.0
FLX -1 09481 15:09:32  40 50.9   -70 42.9 flux leg northeast (030/)
     0 10242 15:22:13  41 08.2   -70 29.2
PRO -1 10283 15:22:54  41 08.2   -70 30.3 profile up/dn to 4900' (1500 m)
EVT    10695 15:29:46  40 56.1   -70 41.5 top of profile
     0 10942 15:33:53  40 55.1   -70 50.9
IRC -1 11042 15:35:33  40 57.2   -70 50.6 IR camera run @ 1280' (390 m)
     0 11783 15:47:54  41 02.6   -70 23.9
IRC -1 11849 15:49:00  41 01.4   -70 24.2 IR camera run @ 1280' (390 m)
     0 12413 15:58:24  40 56.9   -70 48.7
IRC -1 12510 16:00:01  40 54.4   -70 48.9 IR camera run @ 1280' (390 m)
     0 12907 16:06:38  40 48.4   -70 34.4
IRC -1 12988 16:07:59  40 49.6   -70 32.7 IR camera run @ 1250' (390 m)
     0 13839 16:22:10  41 12.8   -70 40.0
```

```
IRC -1 13865 16:22:36  41 13.5   -70 40.1 IR camera run @ 1250' (390 m)
     0 14156 16:27:27  41 21.2   -70 39.0
FRY -1 14157 16:27:28  41 21.2   -70 39.0 ferry and descent to MVY
     0 14264 16:29:15  41 23.2   -70 37.1
STC -1 14410 16:31:41  41 23.3   -70 36.8 preparing to shut down all systems
MSG    14452 16:32:23                     BAT 0 frequency slow: Freq=36
     0 14456 16:32:27  41 23.3   -70 36.8

Marker for D:07271211.ORG CLOSED at 491551

Total scans: 14459
Missed Ints: 00000
      BAT A: 0722936 of 0722950 000.002% Dropouts
      BAT B: 0722950 of 0722950 000.000% Dropouts
        ASH: 0072295 of 0072295 000.000% Dropouts
        TAN: 0143421 of 0144590 000.808% Dropouts


CBLAST-Low Pilot Study - Summer 2001

  Flight: 06
    Date: 27 JUL 01 (Friday)
Duration: 0.7 hr
   Pilot: Timothy L. Crawford

Summary: Infrared camera runs using the "mowing the lawn" flight plan.

Weather: Cold front moved through previous evening, northeasterly
         flow creating a well mixed, unstable marine atmospheric boundary
         layer, winds decreasing in magnitude by late afternoon.

MVY ATIS: 2152 UTC 090/07 10V clear 19//09/ 30.20
MVY ATIS: 2252 UTC   calm 10V clear 18//11/ 30.23

Instrumentation Notes & Comments:

Data acquisition system manually shut down prior to landing for landing lights

Marker for D:07272229.ORG OPENED at 513454

STC -1 00003 22:37:36  41 23.3   -70 36.8 all systems on
     0 00093 22:39:06  41 23.3   -70 36.8
IRC -1 00585 22:47:18  41 19.9   -70 35.5 W IR camera run @ 1280' (390 m)
     0 00730 22:49:43  41 18.5   -70 41.6
IRC -1 00785 22:50:38  41 17.5   -70 41.4 E IR camera run @ 1280' (390 m)
     0 00959 22:53:32  41 19.0   -70 34.5
IRC -1 01026 22:54:39  41 17.9   -70 34.2 W IR camera run @ 1280' (390 m)
     0 01118 22:56:11  41 17.1   -70 38.1
IRC -1 01195 22:57:28  41 16.6   -70 36.8 E IR camera run @ 1280' (390 m)
     0 01289 22:59:02  41 16.9   -70 32.9
IRC -1 01359 23:00:12  41 15.6   -70 33.3 W IR camera run @ 1280' (390 m)
     0 01491 23:02:24  41 14.2   -70 38.7
IRC -1 01543 23:03:16  41 13.2   -70 38.3 E IR camera run @ 1280' (390 m)
     0 01630 23:04:43  41 13.9   -70 35.1
EVT    01852 23:08:25  41 10.5   -70 41.4 fishing ship

Marker for D:07272229.ORG CLOSED at 515645

Total scans: 02191
Missed Ints: 00000
      BAT A: 0109550 of 0109550 000.000% Dropouts
      BAT B: 0109550 of 0109550 000.000% Dropouts
        ASH: 0010955 of 0010955 000.000% Dropouts
        TAN: 0021906 of 0021910 000.018% Dropouts
```

CBLAST-Low Pilot Study - Summer 2001

```
  Flight: 07
    Date: 28 JUL 01 (Saturday)
Duration: 3.0 hr
   Pilot: Timothy L. Crawford

Summary: Infrared camera run, profile, northeast-southwest flux legs,
         profile, northwest-southeast flux legs, several more flux leg
         of various headings, multiple short profiles.

Weather: Region dominated by high pressure system, light northwesterly
         winds in early morning, becoming northeasterly by late
         morning.

MVY ATIS: 0939 UTC 330/05 08V clear 09//08/ 30.27
MVY ATIS: 0951 UTC 320/06 10V clear 11//10/ 30.27
MVY ATIS: 1053 UTC 330/06 10V clear 15//13/ 30.28
MVY ATIS: 1253 UTC 020/06 10V clear 19//11/ 30.29

Instrumentation Notes & Comments: None

Marker for D:07281042.ORG OPENED at 558141

STC -1 00004 11:02:24  41 23.3   -70 36.8 all systems on
     0 00051 11:03:11  41 23.3   -70 36.8
IRC -1 00568 11:11:48  41 18.2   -70 35.5 S IR camera run @ 1280' (390 m)
     0 01367 11:25:07  40 51.9   -70 35.0
IRC -1 01474 11:26:54  40 52.3   -70 36.9 N IR camera run @ 1280' (390 m)
     0 01904 11:34:04  41 04.6   -70 35.3
IRC -1 02015 11:35:55  41 03.2   -70 33.5 SW IR camera run @ 1250' (390 m)
     0 02300 11:40:40  40 55.1   -70 39.6
PRO -1 02510 11:44:10  40 57.5   -70 40.2 profile down from 3600' (1100 m)
     0 02884 11:50:24  41 06.7   -70 31.9
FLX -1 02967 11:51:47  41 05.8   -70 30.6 flux leg southwest (215/)
     0 03445 11:59:45  40 52.6   -70 40.6
PRO -1 03445 11:59:45  40 52.6   -70 40.6 profile up/dn to 500' (150 m)
     0 03614 12:02:34  40 51.6   -70 41.6
FLX -1 03614 12:02:34  40 51.6   -70 41.6 flux leg northeast (025/)
     0 04183 12:12:03  41 06.1   -70 30.7
PRO -1 04183 12:12:03  41 06.1   -70 30.7 profile up/dn to 500' (150 m)
     0 04370 12:15:10  41 07.3   -70 29.5
FLX -1 04370 12:15:10  41 07.3   -70 29.5 flux leg southwest (215/)
EVT    04654 12:19:54  40 59.4   -70 35.9 over ASIMET buoy
     0 04894 12:23:54  40 53.1   -70 41.4
PRO -1 04900 12:24:00  40 52.9   -70 41.5 profile up to 3600' (1100 m)
     0 05275 12:30:15  41 00.6   -70 50.1
PRO -1 05275 12:30:15  41 00.6   -70 50.1 profile down from 3600' (1100 m)
     0 05574 12:35:14  41 02.8   -70 43.3
FLX -1 05577 12:35:17  41 02.8   -70 43.2 flux leg southeast (120/)
     0 05997 12:42:17  40 55.6   -70 27.2
PRO -1 05997 12:42:17  40 55.6   -70 27.2 profile up/dn to 500' (150 m)
     0 06181 12:45:21  40 54.3   -70 25.2
FLX -1 06181 12:45:21  40 54.3   -70 25.2 flux leg northwest (300/)
     0 06774 12:55:14  41 03.3   -70 44.7
PRO -1 06774 12:55:14  41 03.3   -70 44.7 profile up/dn to 500' (150 m)
     0 06959 12:58:19  41 03.7   -70 46.3
FLX -1 06959 12:58:19  41 03.7   -70 46.3 flux leg southeast (115/)
     0 07485 13:07:05  40 55.6   -70 27.1
PRO -1 07485 13:07:05  40 55.6   -70 27.1 profile up/dn to 500' (150 m)
     0 07654 13:09:54  40 55.6   -70 30.7
FLX -1 07654 13:09:54  40 55.6   -70 30.7 flux leg northwest (315/)
     0 08005 13:15:45  41 02.7   -70 39.9
PRO -1 08005 13:15:45  41 02.7   -70 39.9 profile up/dn to 500' (150 m)
     0 08120 13:17:40  41 02.7   -70 37.8
```

```
FLX -1 08120 13:17:40  41 02.7   -70 37.8 flux leg southeast (155/)
EVT    08227 13:19:27  40 59.5   -70 35.9 over ASIMET buoy
     0 08383 13:22:03  40 54.8   -70 33.2
PRO -1 08383 13:22:03  40 54.8   -70 33.2 profile up/dn to 500' (150 m)
     0 08507 13:24:07  40 55.0   -70 35.1
FLX -1 08507 13:24:07  40 55.0   -70 35.1 flux leg north (350/)
EVT    08658 13:26:38  40 59.4   -70 35.9 over ASIMET buoy
     0 08841 13:29:41  41 04.5   -70 37.2
PRO -1 08841 13:29:41  41 04.5   -70 37.2 profile up/dn to 500' (150 m)
     0 08948 13:31:28  41 03.8   -70 35.1
FLX -1 08948 13:31:28  41 03.8   -70 35.1 flux leg south (190/)
EVT    09080 13:33:40  40 59.5   -70 35.9 over ASIMET buoy
     0 09236 13:36:16  40 54.4   -70 37.1
PRO -1 09236 13:36:16  40 54.4   -70 37.1 profile up/dn to 500' (150 m)
     0 09358 13:38:18  40 55.9   -70 38.4
FLX -1 09358 13:38:18  40 55.9   -70 38.4 flux leg northeast (025/)
EVT    09495 13:40:35  40 59.5   -70 35.8 over ASIMET buoy
     0 09680 13:43:40  41 04.2   -70 32.6
PRO -1 09690 13:43:50  41 04.5   -70 32.5 profile up to 3600' (1100 m)
     0 10044 13:49:44  41 14.7   -70 35.3
PRO -1 10044 13:49:44  41 14.7   -70 35.3 profile down from 3600' (1100 m)
     0 10370 13:55:10  41 23.7   -70 36.6
STC -1 10567 13:58:27  41 23.3   -70 36.8 preparing to shut down all systems
     0 10621 13:59:21  41 23.3   -70 36.8

Marker for D:07281042.ORG CLOSED at 568766

Total scans:   10625
Missed Ints:   00000
      BAT A: 0531250 of 0531250 000.000% Dropouts
      BAT B: 0531250 of 0531250 000.000% Dropouts
        ASH: 0053125 of 0053125 000.000% Dropouts
        TAN: 0105729 of 0106250 000.490% Dropouts


CBLAST-Low Pilot Study - Summer 2001

  Flight: 08
    Date: 29 JUL 01 (Sunday)
Duration: 1.5 hr
   Pilot: Timothy L. Crawford

Summary: Infrared camera run prior to sunrise, simple north-south,
         east-west box pattern at 1280' (390 m) for SAR overpass.

Weather: Region dominated by high pressure system, mid and high level
         clouds moving into region, calm to very light and variable
         winds.

MVY ATIS: 0818 UTC calm 10V clear 12//11/ 30.22
MVY ATIS: 0916 UTC calm 10v clear 12//11/ 30.23
MVY ATIS: 0953 UTC calm 10v clear 12//11/ 30.23
MVY ATIS: 1053 UTC calm 10v clear 17//15/ 30.23
MVY ATIS: 1253 UTC calm 10v clear 20//16/ 30.23

Instrumentation Notes & Comments:

Data file was started after takeoff because of difficulty with the TANS not
   functioning properly and was terminated early before the overpass.

Marker for D:07290928.ORG OPENED at 034282

IRC -1 00005 09:31:26  41 19.2   -70 36.2 S IR camera run @ 1280' (390 m)
     0 00266 09:35:47  41 10.8   -70 35.6
IRC -1 00507 09:39:48  41 10.4   -70 32.7 S IR camera run @ 1280' (390 m)
```

```
     0 00985 09:47:46  40 55.7   -70 35.5
IRC -1 01032 09:48:39  40 54.5   -70 34.2 E IR camera run @ 1280' (390 m)
     0 01584 09:57:51  40 55.1   -70 10.1
IRC -1 01637 09:58:44  40 56.2   -70 08.9 N IR camera run @ 1280' (390 m)
     0 02075 10:06:02  41 09.2   -70 09.3
IRC -1 02132 10:06:59  41 10.1   -70 10.7 W IR camera run @ 1280' (390 m)
     0 02800 10:18:07  41 09.9   -70 35.8

Marker for D:07290928.ORG CLOSED at 037094

Total scans:   02806
Missed Ints:   00006
      BAT A: 0140232 of 0140300 000.048% Dropouts
      BAT B: 0140232 of 0140300 000.048% Dropouts
        ASH: 0013994 of 0014030 000.257% Dropouts
        TAN: 0000000 of 0028060 100.000% Dropouts


CBLAST-Low Pilot Study - Summer 2001

  Flight: 09
    Date: 29 JUL 01 (Sunday)
Duration: 2.0 hr
   Pilot: Timothy L. Crawford

Summary: "Spirograph" flux legs over the ASIMET buoy with multiple short
         altitude profiles and a deep boundary layer profile.

Weather: Region dominated by high pressure system, mid and high level
         clouds moving into region, calm to very light and variable
         winds.

MVY ATIS: 0818 UTC calm 10V clear 12//11/ 30.22
MVY ATIS: 0916 UTC calm 10v clear 12//11/ 30.23
MVY ATIS: 0953 UTC calm 10v clear 12//11/ 30.23
MVY ATIS: 1053 UTC calm 10v clear 17//15/ 30.23
MVY ATIS: 1253 UTC calm 10v clear 20//16/ 30.23

Instrumentation Notes & Comments:

TANS functioning after manually- and velocity-aided search reset
Data not differentially corrected prior to scan 01400, ground station off

Marker for D:07291112.ORG OPENED at 042234

FLX -1 01400 12:07:14  40 55.1   -70 37.3 flux leg north (010/)
     0 01730 12:12:43  41 04.8   -70 36.1
PRO -1 01730 12:12:43  41 04.8   -70 36.1 profile up/dn to 500' (150 m)
     0 01843 12:14:36  41 04.2   -70 38.2
FLX -1 01843 12:14:36  41 04.2   -70 38.2 flux leg southeast (155/)
     0 02190 12:20:23  40 55.2   -70 32.9
PRO -1 02190 12:20:23  40 55.2   -70 32.9 profile up/dn to 500' (150 m)
     0 02281 12:21:54  40 56.2   -70 30.9
FLX -1 02281 12:21:54  40 56.2   -70 30.9 flux leg northwest (305/)
     0 02616 12:27:29  41 02.8   -70 41.0
PRO -1 02616 12:27:29  41 02.8   -70 41.0 profile up/dn to 500' (150 m)
     0 02742 12:29:35  41 01.0   -70 41.0
FLX -1 02742 12:29:35  41 01.0   -70 41.0 flux leg east (110/)
     0 03034 12:34:27  40 58.7   -70 29.5
PRO -1 03034 12:34:27  40 58.7   -70 29.5 profile up/dn to 500' (150 m)
     0 03154 12:36:27  41 00.5   -70 29.7
FLX -1 03154 12:36:27  41 00.5   -70 29.7 flux profile west (255/)
     0 03473 12:41:46  40 58.2   -70 42.4
PRO -1 03473 12:41:46  40 58.2   -70 42.4 profile up/dn to 500' (150 m)
     0 03578 12:43:31  40 56.6   -70 41.2
```

```
FLX -1 03578 12:43:31  40 56.6   -70 41.2 flux leg northeast (060/)
     0 03896 12:48:49  41 02.3   -70 30.2
PRO -1 03896 12:48:49  41 02.3   -70 30.2 profile up/dn to 500' (150 m)
     0 04005 12:50:38  41 03.5   -70 31.9
FLX -1 04005 12:50:38  41 03.5   -70 31.9 flux leg southwest (215/)
     0 04358 12:56:31  40 55.6   -70 40.1
PRO -1 04358 12:56:31  40 55.6   -70 40.1 profile up/dn to 500' (150 m)
     0 04475 12:58:28  40 55.2   -70 37.6
FLX -1 04475 12:58:28  40 55.2   -70 37.6 flux leg north (020/)
     0 04772 13:03:25  40 04.2   -70 34.2
PRO -1 04772 13:03:25  40 04.2   -70 34.2 profile up/dn to 500' (150 m)
     0 04888 13:05:21  41 04.2   -70 36.7
FLX -1 04888 13:05:21  41 04.2   -70 36.7 flux leg south (170/)
     0 05222 13:10:55  40 54.3   -70 34.8
PRO -1 05222 13:10:55  40 54.3   -70 34.8 profile up/dn to 500' (150 m)
     0 05336 13:12:49  40 55.3   -70 32.8
FLX -1 05336 13:12:49  40 55.3   -70 32.8 flux leg northwest (330/)
     0 05652 13:18:05  41 03.9   -70 39.3
PRO -1 05652 13:18:05  41 03.9   -70 39.3 profile up/dn to 500' (150 m)
     0 05754 13:19:47  41 02.9   -70 41.2
FLX -1 05754 13:19:47  41 02.9   -70 41.2 flux leg southeast (130/)
     0 06105 13:25:38  40 56.3   -70 30.5
PRO -1 06116 13:25:49  40 56.1   -70 30.1 profile up to 4900' (1500 m)
     0 06657 13:34:50  41 11.8   -70 35.2
PRO -1 06661 13:34:54  41 11.9   -70 35.2 profile down to MVY
     0 07197 13:43:50  41 23.6   -70 36.7
STC -1 07314 13:45:47  41 23.3   -70 36.8 preparing to shut down all systems
     0 07357 13:46:30  41 23.3   -70 36.8

Marker for D:07291112.ORG CLOSED at 049597

Total scans: 07363
Missed Ints: 00000
      BAT A: 0368150 of 0368150 000.000% Dropouts
      BAT B: 0368150 of 0368150 000.000% Dropouts
        ASH: 0036815 of 0036815 000.000% Dropouts
        TAN: 0071765 of 0073630 002.533% Dropouts


CBLAST-Low Pilot Study - Summer 2001

  Flight: 10
    Date: 30 JUL 01 (Monday)
Duration: 3.5 hr
   Pilot: Timothy L. Crawford

Summary: Wind calibrations, infrared camera run (box pattern), east-west
         "bow tie" flux legs and short profiles over ASIMET buoy, profile,
         multiple flux legs and short profiles over the R/V Asterias.

Weather: Fair weather with high clouds to the south from a low pressure
         system in the mid-Atlantic region.  Light winds from the
         northeast and east.

MVY ATIS: 0953 UTC 060/04 10V clear         30.16
MVY ATIS: 1053 UTC 060/03 10V clear 14//12/ 30.17
MVY ATIS: 1153 UTC 110/07 10V clear 19//13/ 30.18
MVY ATIS: 1402 UTC 090/12 10V clear 21//14/ 30.18
MVY ATIS: 1453 UTC 090/11 10V clear 22//14/ 30.17

Instrumentation Notes & Comments: None

Marker for D:07301120.ORG OPENED at 128628

STC -1 00005 11:43:52  41 23.3   -70 36.8 all systems on
```

```
     0 00057 11:44:44  41 23.3   -70 36.8
PTC -1 00687 11:55:14  41 18.6   -70 35.0 pitch up/dn calibration
     0 00810 11:57:17  41 14.9   -70 34.7
YAW -1 00815 11:57:22  41 14.7   -70 34.7 yaw calibration
     0 01003 12:00:30  41 08.9   -70 34.6
ACC -1 01009 12:00:36  41 08.8   -70 34.6 acceleration run calibration
     0 01253 12:04:40  41 01.7   -70 35.7
WCR -1 01481 12:08:28  41 01.0   -70 36.3 wind circle right
     0 01709 12:12:16  41 01.2   -70 36.6
WCL -1 01791 12:13:38  40 59.7   -70 34.3 wind circle left
     0 01994 12:17:01  40 60.0   -70 34.2
PRO -1 02053 12:18:00  41 01.5   -70 32.7 profile down from 3800' (1150 m)
     0 02393 12:23:40  41 02.8   -70 27.1
IRC -1 02456 12:24:43  41 02.9   -70 30.0 W IR camera run @ 1280' (390 m)
     0 02690 12:28:37  41 02.6   -70 41.0
IRC -1 02690 12:28:37  41 02.6   -70 41.0 S IR camera run @ 1280' (390 m)
     0 02957 12:33:04  40 54.6   -70 42.0
IRC -1 02957 12:33:04  40 54.6   -70 42.0 E IR camera run @ 1280' (390 m)
     0 03358 12:39:45  40 54.6   -70 28.
IRC -1 03358 12:39:45  40 54.6   -70 28.8 N IR camera run @ 1280' (390 m)
     0 03722 12:45:49  41 05.1   -70 28.6
FLX -1 04001 12:50:28  41 01.5   -70 28.0 flux leg west (250/)
     0 04348 12:56:15  40 57.8   -70 42.4
PRO -1 04348 12:56:15  40 57.8   -70 42.4 profile up/dn to 500' (150 m)
     0 04438 12:57:45  40 59.0   -70 42.8
FLX -1 04438 12:57:45  40 59.0   -70 42.8 flux leg east (085/)
     0 04835 13:04:22  40 59.7   -70 29.2
PRO -1 04835 13:04:22  40 59.7   -70 29.2 profile up/dn to 500' (150 m)
     0 04959 13:06:26  41 01.5   -70 31.1
FLX -1 04959 13:06:26  41 01.5   -70 31.1 flux leg southwest (240/)
     0 05256 13:11:23  40 56.9   -70 43.4
PRO -1 05256 13:11:23  40 56.9   -70 43.4 profile up/dn to 500' (150 m)
     0 05360 13:13:07  40 58.4   -70 43.8
FLX -1 05360 13:13:07  40 58.4   -70 43.8 flux leg east (080/)
     0 05784 13:20:11  41 00.2   -70 29.2
PRO -1 05784 13:20:11  41 00.2   -70 29.2 profile up/dn to 500' (150 m)
     0 05906 13:22:13  41 01.7   -70 31.3
FLX -1 05906 13:22:13  41 01.7   -70 31.3 flux leg southwest (240/)
     0 06168 13:26:35  40 57.8   -70 42.4
PRO -1 06168 13:26:35  40 57.8   -70 42.4 profile up/dn to 500' (150 m)
     0 06264 13:28:11  40 59.3   -70 42.9
FLX -1 06264 13:28:11  40 59.3   -70 42.9 flux leg east (085/)
     0 06632 13:34:19  40 59.8   -70 28.9
PRO -1 06632 13:34:19  40 59.8   -70 28.9 profile up/dn to 500' (150 m)
     0 06756 13:36:23  41 01.5   -70 31.1
FLX -1 06756 13:36:23  41 01.5   -70 31.1 flux leg southwest (245/)
     0 07028 13:40:55  40 57.5   -70 42.6
PRO -1 07097 13:42:04  40 58.6   -70 44.5 profile up to 4100' (1250 m)
     0 07393 13:47:00  41 07.2   -70 42.9
PRO -1 07399 13:47:06  41 07.4   -70 42.8 profile down from 4100' (1250 m)
     0 07711 13:52:18  41 16.7   -70 39.2
FLX -1 07824 13:54:11  41 16.1   -70 35.7 flux leg southeast (145/)
     0 07953 13:56:20  41 12.4   -70 33.1
PRO -1 07953 13:56:20  41 12.4   -70 33.1 profile up/dn to 500' (150 m)
     0 08050 13:57:57  41 11.1   -70 35.2
FLX -1 08050 13:57:57  41 11.1   -70 35.2 flux leg north (340/)
     0 08266 14:01:33  41 17.4   -70 40.0
PRO -1 08266 14:01:33  41 17.4   -70 40.0 profile up/dn to 500' (150 m)
     0 08379 14:03:26  41 18.0   -70 37.7
FLX -1 08379 14:03:26  41 18.0   -70 37.7 flux leg southeast (135/)
     0 08618 14:07:25  41 12.2   -70 31.4
PRO -1 08618 14:07:25  41 12.2   -70 31.4 profile up/dn to 500' (150 m)
     0 08730 14:09:17  41 11.1   -70 34.0
FLX -1 08730 14:09:17  41 11.1   -70 34.0 flux leg northwest (350/)
     0 08990 14:11:37  41 18.9   -70 36.9
```

```
PRO -1 08990 14:11:37  41 18.9   -70 36.9 profile up/dn to 500' (150 m)
     0 09093 14:15:20  41 18.8   -70 34.4
FLX -1 09093 14:15:20  41 18.8   -70 34.4 flux leg south (180/)
     0 09329 14:19:16  41 11.1   -70 35.6
PRO -1 09329 14:19:16  41 11.1   -70 35.6 profile up/dn to 500' (150 m)
     0 09460 14:21:27  41 12.0   -70 38.3
FLX -1 09460 14:21:27  41 12.0   -70 38.3 flux leg northeast (040/)
     0 09724 14:25:51  41 17.9   -70 32.9
PRO -1 09724 14:25:51  41 17.9   -70 32.9 profile up/dn to 500' (150 m)
     0 09841 14:27:48  41 16.2   -70 32.0
FLX -1 09841 14:27:48  41 16.2   -70 32.0 flux leg west (250/)
     0 10034 14:31:01  41 14.2   -70 40.3
PRO -1 10034 14:31:01  41 14.2   -70 40.3 profile up/dn to 500' (150 m)
     0 10145 14:32:52  41 15.9   -70 41.0
FLX -1 10145 14:32:52  41 15.9   -70 41.0 flux leg east (090/)
     0 10426 14:37:33  41 15.3   -70 30.8
PRO -1 10426 14:37:33  41 15.3   -70 30.8 profile up/dn to 500' (150 m)
     0 10562 14:39:49  41 13.8   -70 33.0
FLX -1 10562 14:39:49  41 13.8   -70 33.0 flux leg northwest (320/)
     0 10742 14:42:49  41 17.7   -70 38.7
PRO -1 10742 14:42:49  41 17.7   -70 38.7 profile up/dn to 500' (150 m)
     0 10862 14:44:49  41 18.6   -70 37.2
FLX -1 10862 14:44:49  41 18.6   -70 37.2 flux leg southeast (145/)
     0 11128 14:49:15  41 12.0   -70 32.3
PRO -1 11140 14:49:27  41 11.7   -70 32.0 profile up to 4600' (1400 m)
     0 11708 14:58:55  41 12.6   -70 32.4
PRO -1 11712 14:58:59  41 12.7   -70 32.5 profile down to MVY
     0 12295 15:08:42  41 23.6   -70 36.6
STC -1 12400 15:10:27  41 23.3   -70 36.8 preparing to shut down all systems
     0 12420 15:10:47  41 23.3   -70 36.8

Marker for D:07301120.ORG CLOSED at 141057

Total scans:   12429
Missed Ints:   00000
      BAT A: 0621450 of 0621450 000.000% Dropouts
      BAT B: 0621450 of 0621450 000.000% Dropouts
        ASH: 0062145 of 0062145 000.000% Dropouts
        TAN: 0123243 of 0124290 000.842% Dropouts


CBLAST-Low Pilot Study - Summer 2001

  Flight: 11
    Date: 31 JUL 01 (Tuesday)
Duration: 2.4 hr
   Pilot: Timothy L. Crawford

Summary: Infrared camera runs using the "mowing the lawn" flight plan just
         prior to and shortly after sunrise, profile, several north/south
         (040//220/) flux legs over ASIMET buoy with short altitude profiles.

Weather: Fair weather with a few high clouds from a low pressure system to
         the south quickly moving to the north and east.  Light winds from
         the north with a confused wave state.

MVY ATIS: 0745 UTC 020/07 10V clear               15//13/ 30.15
MVY ATIS: 0911 UTC 020/05 10V  scat 440 scat 5000 17//15/ 30.19
MVY ATIS: 0953 UTC 010/05 10V clear               13//12/ 30.18
MVY ATIS: 1052 UTC 020/04 10V clear               17//15/ 30.19

Instrumentation Notes & Comments: None

Marker for D:07310909.ORG OPENED at 206940
```

```
STC -1 00004 09:29:03  41 23.3   -70 36.8 all systems on
     0 00067 09:30:06  41 23.3   -70 36.8
IRC -1 00582 09:38:41  41 17.4   -70 32.2 W IR camera run @ 1280' (390 m)
     0 00756 09:41:35  41 16.7   -70 40.1
IRC -1 00846 09:43:05  41 15.0   -70 40.6 E IR camera run @ 1280' (390 m)
     0 01148 09:48:07  41 15.0   -70 29.9
IRC -1 01262 09:50:01  41 12.7   -70 30.2 W IR camera run @ 1280' (390 m)
     0 01484 09:53:43  41 12.7   -70 40.2
IRC -1 01582 09:55:21  41 11.0   -70 40.2 E IR camera run @ 1280' (390 m)
     0 01876 10:00:15  41 11.3   -70 29.9
IRC -1 01995 10:02:14  41 08.9   -70 30.0 W IR camera run @ 1280' (390 m)
     0 02233 10:06:12  41 08.7   -70 40.7
IRC -1 02333 10:07:52  41 07.0   -70 41.0 E IR camera run @ 1280' (390 m)
     0 02643 10:13:02  41 07.1   -70 29.9
IRC -1 02769 10:15:08  41 04.7   -70 30.4 W IR camera run @ 1280' (390 m)
     0 02987 10:18:46  41 04.7   -70 40.2
IRC -1 03080 10:20:19  41 02.9   -70 40.5 E IR camera run @ 1250' (390 m)
     0 03383 10:25:22  41 02.8   -70 29.8
PRO -1 03603 10:29:02  40 58.5   -70 33.8 profile down from 3900' (1200 m)
     0 04071 10:36:50  40 58.0   -70 39.0
FLX -1 04393 10:42:12  41 02.5   -70 34.4 flux leg south (200/)
     0 04632 10:46:11  40 54.7   -70 38.2
PRO -1 04632 10:46:11  40 54.7   -70 38.2 profile up/dn to 500' (150 m)
     0 04748 10:48:07  40 55.4   -70 40.5
FLX -1 04748 10:48:07  40 55.4   -70 40.5 flux leg northeast (040/)
     0 05112 10:54:11  41 03.6   -70 31.6
PRO -1 05112 10:54:11  41 03.6   -70 31.6 profile up/dn to 500' (150 m)
     0 05233 10:56:12  41 03.7   -70 34.4
FLX -1 05233 10:56:12  41 03.7   -70 34.4 flux leg south (200/)
     0 05517 11:00:56  40 54.7   -70 38.3
PRO -1 05517 11:00:56  40 54.7   -70 38.3 profile up/dn to 500' (150 m)
     0 05608 11:02:27  40 55.3   -70 40.2
FLX -1 05608 11:02:27  40 55.3   -70 40.2 flux leg northeast (040/)
     0 05983 11:08:42  41 03.4   -70 31.5
PRO -1 05983 11:08:42  41 03.4   -70 31.5 profile up/dn to 500' (150 m)
     0 06100 11:10:39  41 03.5   -70 34.1
FLX -1 06100 11:10:39  41 03.5   -70 34.1 flux leg south (200/)
     0 06389 11:15:28  40 54.5   -70 38.4
PRO -1 06389 11:15:28  40 54.5   -70 38.4 profile up/dn to 500' (150 m)
     0 06509 11:17:28  40 55.4   -70 38.9
FLX -1 06509 11:17:28  40 55.4   -70 38.9 flux leg northeast (030/)
     0 06866 11:23:25  41 03.8   -70 32.1
PRO -1 06866 11:23:25  41 03.8   -70 32.1 profile up/dn to 500' (150 m)
     0 06963 11:25:02  41 04.0   -70 34.0
FLX -1 06963 11:25:02  41 04.0   -70 34.0 flux leg south (200/)
     0 07271 11:30:10  40 54.3   -70 38.4
PRO -1 07345 11:31:24  40 54.3   -70 40.7 profile up to 4900'(1500 m)
     0 07766 11:38:25  41 06.2   -70 39.9
PRO -1 07766 11:38:25  41 06.2   -70 39.9 profile down to MVY
     0 08235 11:46:14  41 19.7   -70 39.1
STC -1 08574 11:51:53  41 23.3   -70 36.8 preparing to shut down all systems
     0 08635 11:52:54  41 23.3   -70 36.8

Marker for D:07310909.ORG CLOSED at 215580

Total scans:   08640
Missed Ints:   00000
      BAT A: 0432000 of 0432000 000.000% Dropouts
      BAT B: 0432000 of 0432000 000.000% Dropouts
        ASH: 0043200 of 0043200 000.000% Dropouts
        TAN: 0085324 of 0086400 001.245% Dropouts


CBLAST-Low Pilot Study - Summer 2001
```

```
  Flight: 12
    Date: 01 AUG 01 (Wednesday)
Duration: 3.3 hr
   Pilot: Timothy L. Crawford

Summary: Infrared camera run prior to sunrise, simple north-south,
         east-west box pattern at 1280' (390 m) prior to SAR overpass.
         Same box pattern flow at 10 m for SAR intercomparison at
         1057 UTC.  "Spirograph" flux legs over the ASIMET buoy with
         multiple short  altitude profiles and a deep boundary layer
         profile.

Weather: Region dominated by high pressure with very light winds from
         the northwest to northeast.  Wave state somewhat confused.

MVY ATIS: 0803 UTC   calm 10V clear 14//14/ 30.23
MVY ATIS: 0835 UTC 320/03 10V clear 14//13/ 30.24
MVY ATIS: 0854 UTC 310/04 10V clear 14//13/ 30.24
MVY ATIS: 0937 UTC 330/03 08V clear 16//15/ 30.26
MVY ATIS: 0953 UTC   calm 07V clear 16//15/ 30.37
MVY ATIS: 1153 UTC 020/06 10V clear 22//17/ 30.29

Instrumentation Notes & Comments: None

Marker for D:08010911.ORG OPENED at 294009

STC -1 00004 09:40:12  41 23.3   -70 36.8 all systems on
     0 00065 09:41:13  41 23.3   -70 36.8
IRC -1 00354 09:46:02  41 21.1   -70 34.5 S IR camera run @ 1280' (390 m)
     0 00699 09:51:47  41 10.0   -70 35.5
IRC -1 00703 09:51:51  41 09.9   -70 35.5 S IR camera run @ 1280' (390 m)
     0 01121 09:58:49  40 55.8   -70 35.6
IRC -1 01173 09:59:41  40 55.0   -70 34.0 E IR camera run @ 1280' (390 m)
     0 01701 10:08:29  40 55.0   -70 10.5
MSG    01741 10:09:09                     BAT 0 frequency slow: Freq=49
MSG    01741 10:09:09                     BAT 1 frequency slow: Freq=49
IRC -1 01748 10:09:16  40 55.9   -70 09.4 N IR camera run @ 1280' (390 m)
     0 02188 10:16:36  41 08.9   -70 09.2
FLX -1 02249 10:17:37  41 09.5   -70 10.9 W IR camera run @ 1280' (390 m)
EVT    02666 10:24:34  41 09.9   -70 26.9 ship wake
     0 02883 10:28:11  41 09.9   -70 35.2
PRO -1 03025 10:30:33  41 13.2   -70 36.8 profile down from 3600' (1100 m)
     0 03452 10:37:40  41 13.0   -70 33.0
FLX -1 03585 10:39:53  41 10.1   -70 35.2 SAR flux leg south (180/)
     0 04058 10:47:46  40 55.9   -70 35.5
FLX -1 04110 10:48:38  40 55.0   -70 34.0 SAR flux leg east (090/)
     0 04688 10:58:16  40 55.0   -70 10.5
FLX -1 04739 10:59:07  40 55.9   -70 09.3 SAR flux leg north (000/)
     0 05208 11:06:56  41 09.0   -70 09.1
FLX -1 05259 11:07:47  41 09.7   -70 10.3 SAR flux leg west (270/)
     0 05961 11:19:29  41 09.9   -70 35.5
PRO -1 05965 11:19:33  41 09.9   -70 35.6 profile up to 3100' (950 m)
     0 06270 11:24:38  40 59.6   -70 36.0
PRO -1 06270 11:24:38  40 59.6   -70 36.0 profile down from 3100' (950 m)
     0 06531 11:28:59  40 54.6   -70 34.0
FLX -1 06534 11:29:02  40 54.7   -70 34.0 flux leg north (340/)
     0 06909 11:35:17  41 04.3   -70 38.2
PRO -1 06909 11:35:17  41 04.3   -70 38.2 profile up/dn to 500' (150 m)
     0 07008 11:36:56  41 02.9   -70 39.5
FLX -1 07008 11:36:56  41 02.9   -70 39.5 flux leg southeast (140/)
     0 07291 11:41:39  40 55.6   -70 31.5
PRO -1 07291 11:41:39  40 55.6   -70 31.5 profile up/dn to 500' (150 m)
     0 07401 11:43:29  40 56.8   -70 29.9
FLX -1 07401 11:43:29  40 56.8   -70 29.9 flux leg northwest (300/)
     0 07766 11:49:34  41 02.1   -70 41.8
```

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PRO -1 07766 11:49:34  41 02.1   -70 41.8 profile up/dn to 500' (150 m)
     0 07874 11:51:22  41 00.2   -70 42.0
FLX -1 07874 11:51:22  41 00.2   -70 42.0 flux leg east (100/)
     0 08196 11:56:44  40 58.5   -70 28.4
PRO -1 08196 11:56:44  40 58.5   -70 28.4 profile up/dn to 500' (150 m)
     0 08311 11:58:39  41 00.0   -70 28.7
FLX -1 08311 11:58:39  41 00.0   -70 28.7 flux leg west (265/)
     0 08684 12:04:52  40 58.6   -70 42.5
PRO -1 08684 12:04:52  40 58.6   -70 42.5 profile up/dn to 500' (150 m)
     0 08801 12:06:49  40 56.7   -70 41.2
FLX -1 08801 12:06:49  40 56.7   -70 41.2 flux leg northeast (055/)
     0 09133 12:12:21  41 02.0   -70 30.1
PRO -1 09133 12:12:21  41 02.0   -70 30.1 profile up/dn to 500' (150 m)
     0 09245 12:14:13  41 02.9   -70 31.7
FLX -1 09245 12:14:13  41 02.9   -70 31.7 flux leg southwest (225/)
     0 09580 12:19:48  40 55.5   -70 40.4
PRO -1 09580 12:19:48  40 55.5   -70 40.4 profile up/dn to 500' (150 m)
     0 09697 12:21:45  40 54.6   -70 38.3
FLX -1 09697 12:21:45  40 54.6   -70 38.3 flux leg north (015/)
     0 10058 12:27:46  41 04.3   -70 33.6
PRO -1 10058 12:27:46  41 04.3   -70 33.6 profile up/dn to 500' (150 m)
     0 10160 12:29:28  41 23.2   -70 33.5
FLX -1 10160 12:29:28  41 23.2   -70 33.5 flux leg south (180/)
     0 10467 12:34:35  40 54.9   -70 35.7
PRO -1 10550 12:35:58  40 54.9   -70 35.0 profile up to 4600' (1400 m)
     0 11002 12:43:30  41 08.5   -70 37.2
FRY -1 11010 12:43:38  41 08.8   -70 37.3 return to MVY
     0 11531 12:52:19  41 23.7   -70 36.6

Marker for D:08010911.ORG CLOSED at 305700

Total scans: 11691
Missed Ints: 00000
      BAT A: 0584549 of 0584550 000.000% Dropouts
      BAT B: 0584549 of 0584550 000.000% Dropouts
        ASH: 0058455 of 0058455 000.000% Dropouts
        TAN: 0115974 of 0116910 000.801% Dropouts


CBLAST-Low Pilot Study - Summer 2001

  Flight: 13
    Date: 01 AUG 01 (Wednesday)
Duration: 2.8 hr
   Pilot: Timothy L. Crawford

Summary: East-west "bow tie" flux runs near and over the R/V Asterias
         and "spirograph" flux runs over the ASIMET buoy, profiles.

Weather: Region dominated by high pressure with light and variable
         winds.   Wave state somewhat confused.

MVY ATIS: 1553 UTC 080/06 10V clear 26//18/ 30.29
MVY ATIS: 1852 UTC 210/06 10V clear 26//    30.30

Instrumentation Notes & Comments: None

Marker for D:08011644.ORG OPENED at 320069

PRO -1 00361 17:00:29  41 20.1   -70 32.2 profile down from 1000' (300 m)
     0 00547 17:03:35  41 18.8   -70 29.4
FLX -1 00622 17:04:50  41 18.5   -70 32.7 flux leg west (255/)
     0 00842 17:08:30  41 16.9   -70 41.3
PRO -1 00842 17:08:30  41 16.9   -70 41.3 profile up/dn to 500' (150 m)
     0 00947 17:10:15  41 18.5   -70 41.0
```

```
FLX -1 00947 17:10:15  41 18.5   -70 41.0 flux leg east (100/)
     0 01292 17:16:00  41 16.6   -70 27.7
PRO -1 01292 17:16:00  41 16.6   -70 27.7 profile up/dn to 500' (150 m)
     0 01419 17:18:07  41 18.2   -70 28.3
FLX -1 01419 17:18:07  41 18.2   -70 28.3 flux leg west (260/)
     0 01740 17:23:28  41 16.6   -70 41.4
PRO -1 01740 17:23:28  41 16.6   -70 41.4 profile up/dn to 500' (150 m)
     0 01845 17:25:13  41 18.1   -70 41.1
FLX -1 01845 17:25:13  41 18.1   -70 41.1 flux leg east (100/)
     0 02188 17:30:56  41 16.7   -70 27.9
PRO -1 02188 17:30:56  41 16.7   -70 27.9 profile up/dn to 500' (150 m)
     0 02292 17:32:40  41 18.3   -70 27.9
FLX -1 02292 17:32:40  41 18.3   -70 27.9 flux leg west (260/)
     0 02615 17:38:03  41 16.8   -70 41.1
PRO -1 02615 17:38:03  41 16.8   -70 41.1 profile up/dn to 500' (150 m)
     0 02716 17:39:44  41 16.2   -70 39.8
FLX -1 02716 17:39:44  41 16.2   -70 39.8 flux leg east (090/)
     0 03028 17:44:56  41 16.8   -70 27.5
PRO -1 03028 17:44:56  41 16.8   -70 27.5 profile up/dn to 500' (150 m)
     0 03142 17:46:50  41 15.4   -70 28.5
FLX -1 03142 17:46:50  41 15.4   -70 28.5 flux leg west (270/)
     0 03456 17:52:04  41 16.2   -70 41.5
PRO -1 03456 17:52:04  41 16.2   -70 41.5 profile up/dn to 500' (150 m)
     0 03540 17:53:28  41 15.6   -70 41.6
FLX -1 03540 17:53:28  41 15.6   -70 41.6 flux leg east (090/)
     0 03883 17:59:11  41 16.0   -70 27.7
PRO -1 03883 17:59:11  41 16.0   -70 27.7 profile up/dn to 500' (150 m)
     0 03962 18:00:30  41 14.6   -70 27.8
FLX -1 03962 18:00:30  41 14.6   -70 27.8 flux leg west (275/)
     0 04299 18:06:07  41 16.2   -70 40.9
PRO -1 04299 18:06:07  41 16.2   -70 40.9 profile up/dn to 500' (150 m)
     0 04379 18:07:37  41 15.4   -70 39.6
FLX -1 04379 18:07:37  41 15.4   -70 39.6 flux leg east (095/)
     0 04662 18:12:10  41 15.3   -70 28.0
PRO -1 04662 18:12:10  41 15.3   -70 28.0 profile up to 1600' (500 m)
     0 04823 18:14:51  41 10.7   -70 29.0
PRO -1 04823 18:14:51  41 10.7   -70 29.0 profile down from 1600' (500 m)
     0 04960 18:17:08  41 07.2   -70 32.2
FLX -1 04963 18:17:11  41 07.1   -70 32.3 flux leg south (200/)
     0 05426 18:24:54  40 54.7   -70 38.3
PRO -1 05426 18:24:54  40 54.7   -70 38.3 profile up/dn to 500' (150 m)
     0 05544 18:26:52  40 54.6   -70 35.8
FLX -1 05544 18:26:52  40 54.6   -70 35.8 flux leg north (355/)
     0 05872 18:32:20  41 04.7   -70 36.0
PRO -1 05872 18:32:20  41 04.7   -70 36.0 profile up/dn to 500' (150 m)
     0 05979 18:34:07  41 04.3   -70 38.0
FLX -1 05979 18:34:07  41 04.3   -70 38.0 flux leg south (165/)
     0 06315 18:39:43  40 54.7   -70 33.7
PRO -1 06315 18:39:43  40 54.7   -70 33.7 profile up/dn to 500' (150 m)
     0 06431 18:41:39  40 55.6   -70 31.6
FLX -1 06431 18:41:39  40 55.6   -70 31.6 flux leg northwest (315/)
     0 06775 18:47:23  41 03.4   -70 40.2
PRO -1 06775 18:47:23  41 03.4   -70 40.2 profile up/dn to 500' (150 m)
     0 06891 18:49:19  41 02.0   -70 41.3
FLX -1 06891 18:49:19  41 02.0   -70 41.3 flux leg southeast (125/)
     0 07206 18:54:34  40 57.0   -70 30.0
PRO -1 07206 18:54:34  40 57.0   -70 30.0 profile up/dn to 500' (150 m)
     0 07324 18:56:32  40 58.7   -70 29.3
FLX -1 07324 18:56:32  40 58.7   -70 29.3 flux leg west (280/)
     0 07683 19:02:31  41 00.3   -70 42.8
PRO -1 07683 19:02:31  41 00.3   -70 42.8 profile up/dn to 500' (150 m)
     0 07788 19:04:16  40 58.6   -70 42.7
FLX -1 07788 19:04:16  40 58.6   -70 42.7 flux leg east (080/)
     0 08105 19:09:33  41 00.3   -70 29.2
PRO -1 08105 19:09:33  41 00.3   -70 29.2 profile up/dn to 500' (150 m)
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```
     0 08225 19:11:33  41 02.1   -70 29.8
FLX -1 08225 19:11:33  41 02.1   -70 29.8 flux leg southwest (245/)
     0 08588 19:17:36  40 57.1   -70 41.8
PRO -1 08588 19:17:36  40 57.1   -70 41.8 profile up/dn to 500' (150 m)
     0 08704 19:19:32  40 55.7   -70 40.1
FLX -1 08704 19:19:32  40 55.7   -70 40.1 flux leg northeast (040/)
     0 09034 19:25:02  41 03.4   -70 31.5
PRO -1 09038 19:25:06  41 03.5   -70 31.4 profile up to 3600' (1100 m)
MSG    09319 19:29:47                     BAT 0 frequency slow: Freq=49
MSG    09319 19:29:47                     BAT 1 frequency slow: Freq=49
     0 09405 19:31:13  41 14.2   -70 34.6
PRO -1 09407 19:31:15  41 14.3   -70 34.6 profile down to MVY
     0 09833 19:38:21  41 23.3   -70 37.0
STC -1 09908 19:39:36  41 23.3   -70 36.8 preparing to shut down all systems
     0 09960 19:40:28  41 23.3   -70 36.8

Marker for D:08011644.ORG CLOSED at 330034

Total scans:   09965
Missed Ints:   00000
      BAT A: 0498249 of 0498250 000.000% Dropouts
      BAT B: 0498249 of 0498250 000.000% Dropouts
        ASH: 0049825 of 0049825 000.000% Dropouts
        TAN: 0099041 of 0099650 000.611% Dropouts


CBLAST-Low Pilot Study - Summer 2001

  Flight: 14
    Date: 02 AUG 01 (Thursday)
Duration: 2.4 hr
   Pilot: Timothy L. Crawford

Summary: Late morning flight, IR camera run with simple box pattern around
         ASIMET buoy, "spirograph" flux legs with short profiles over ASIMET
         buoy, profiles.

Weather: Very hazy, hot, and humid, light southwesterly winds as a high
         pressure system slowly moves eastward.

MVY ATIS: 1352 UTC 230/08 10V clear 25//20/ 30.25
MVY ATIS: 1652 UTC 220/09 10V clear 26//20/ 30.21

Instrumentation Notes & Comments: None

Marker for D:08021423.ORG OPENED at 398843

STC -1 00006 14:47:28  41 23.3   -70 36.8 all systems on
     0 00062 14:48:24  41 23.3   -70 36.8
PRO -1 00521 14:56:03  41 17.1   -70 35.6 profile up to 4000' (1200 m)
     0 00877 15:01:59  41 06.6   -70 35.5
PRO -1 00882 15:02:04  41 06.4   -70 35.5 profile down from 4000' (1200 m)
     0 01362 15:10:04  40 54.1   -70 43.4
IRC -1 01606 15:14:08  40 49.3   -70 46.9 E IR camera run @ 1280' (390 m)
     0 02098 15:22:20  40 49.3   -70 25.1
IRC -1 02145 15:23:07  40 50.3   -70 23.8 N IR camera run @ 1280' (390 m)
     0 02727 15:32:49  41 09.0   -70 23.9
IRC -1 02773 15:33:35  41 09.7   -70 25.0 W IR camera run @ 1280' (390 m)
     0 03329 15:42:51  41 09.7   -70 44.7
IRC -1 03376 15:43:38  41 08.8   -70 45.5 S IR camera run @ 1280' (390 m)
     0 03702 15:49:04  40 59.7   -70 45.1
FLX -1 03802 15:50:44  40 59.0   -70 41.4 flux leg east (085/)
EVT    04036 15:54:38  41 00.2   -70 31.7 wake
     0 04097 15:55:39  41 00.4   -70 29.2
FLX -1 04226 15:57:48  41 02.2   -70 29.8 flux leg southwest (240/)
```

```
     0 04604 16:04:06  40 57.0   -70 41.8
PRO -1 04604 16:04:06  40 57.0   -70 41.8 profile up/dn to 500' (150 m)
     0 04704 16:05:46  40 55.6   -70 40.0
FLX -1 04704 16:05:46  40 55.6   -70 40.0 flux leg northeast (040/)
     0 05012 16:10:54  41 03.6   -70 31.6
PRO -1 05012 16:10:54  41 03.6   -70 31.6 profile up/dn to 500' (150 m)
     0 05140 16:13:02  41 04.2   -70 33.6
FLX -1 05140 16:13:02  41 04.2   -70 33.6 flux leg southwest (205/)
     0 05511 16:19:13  40 54.6   -70 38.5
PRO -1 05511 16:19:13  40 54.6   -70 38.5 profile up/dn to 500' (150 m)
     0 05623 16:21:05  40 54.1   -70 35.8
FLX -1 05623 16:21:05  40 54.1   -70 35.8 flux leg north (355/)
     0 05944 16:26:26  41 04.7   -70 35.9
PRO -1 05944 16:26:26  41 04.7   -70 35.9 profile up/dn to 500' (150 m)
     0 06057 16:28:19  41 04.6   -70 37.9
FLX -1 06057 16:28:19  41 04.6   -70 37.9 flux leg south (165/)
EVT    06126 16:29:28  41 02.7   -70 37.0 visible surface change
     0 06428 16:34:30  40 54.4   -70 33.3
PRO -1 06428 16:34:30  40 54.4   -70 33.3 profile up/dn to 500' (150 m)
     0 06533 16:36:15  40 55.4   -70 30.8
FLX -1 06533 16:36:15  40 55.4   -70 30.8 flux leg northwest (315/)
     0 06886 16:42:08  41 03.5   -70 40.2
PRO -1 06886 16:42:08  41 03.5   -70 40.2 profile up/dn to 500' (150 m)
     0 06995 16:43:57  41 02.2   -70 41.2
FLX -1 06995 16:43:57  41 02.2   -70 41.2 flux leg southeast (130/)
     0 07322 16:49:24  40 57.0   -70 29.9
PRO -1 07322 16:49:24  40 57.0   -70 29.9 profile up/dn to 500' (150 m)
     0 07426 16:51:08  40 58.7   -70 28.4
FLX -1 07426 16:51:08  40 58.7   -70 28.4 flux leg west (275/)
     0 07804 16:57:26  41 00.4   -70 42.5
PRO -1 07854 16:58:16  41 01.6   -70 42.7 profile up to 4300' (1300 m)
     0 08233 17:04:35  41 14.6   -70 38.0
PRO -1 08236 17:04:38  41 14.7   -70 37.9 profile down to MVY
     0 08595 17:10:37  41 23.4   -70 36.8
STC -1 08669 17:11:51  41 23.3   -70 36.8 preparing to shut down all systems
     0 08709 17:12:31  41 23.3   -70 36.8

Marker for D:08021423.ORG CLOSED at 407556

Total scans:   08713
Missed Ints:   00000
      BAT A: 0435650 of 0435650 000.000% Dropouts
      BAT B: 0435650 of 0435650 000.000% Dropouts
        ASH: 0043565 of 0043565 000.000% Dropouts
        TAN: 0086800 of 0087130 000.379% Dropouts


CBLAST-Low Pilot Study - Summer 2001

  Flight: 15
    Date: 03 AUG 01 (Friday)
Duration: 1.9 hr
   Pilot: Timothy L. Crawford

Summary: Nighttime flight for infrared camera runs using the "mowing
         the lawn" flight plan after sunset.

Weather: Hazy and humid, steady southwesterly winds as a high
         pressure system slowly moves eastward.

MVY ATIS: 2252 UTC 240/10     10V clear 23//18/ 30.11
MVY ATIS: 2357 UTC 250/11     10V clear 22//17/ 30.11
MVY ATIS: 0213 UTC 260/10/G18 10V clear 22//17/ 30.11

Instrumentation Notes & Comments:
```

Data acquisition system booted up after takeoff and shut down prior to
landing for this nighttime flight (power needed for landing lights).

Marker for D:08030052.ORG OPENED at 435501

```
IRC -1 00001 00:58:21  41 17.0   -70 33.0 W IR camera run @ 1280' (390 m)
     0 00241 01:02:21  41 17.0   -70 39.6
IRC -1 00333 01:03:53  41 15.8   -70 39.0 E IR camera run @ 1280' (390 m)
     0 00551 01:07:31  41 15.9   -70 27.1
IRC -1 00668 01:09:28  41 14.2   -70 26.0 W IR camera run @ 1280' (390 m)
     0 01166 01:17:46  41 14.3   -70 40.1
IRC -1 01240 01:19:00  41 13.1   -70 39.1 E IR camera run @ 1280' (390 m)
     0 01415 01:21:55  41 13.3   -70 29.8
IRC -1 01521 01:23:41  41 11.6   -70 28.6 W IR camera run @ 1280' (390 m)
     0 01925 01:30:25  41 11.5   -70 40.4
IRC -1 01995 01:31:35  41 10.2   -70 39.0 E IR camera run @ 1280' (390 m)
     0 02165 01:34:25  41 10.4   -70 29.8
IRC -1 02255 01:35:55  41 08.7   -70 28.2 W IR camera run @ 1280' (390 m)
     0 02630 01:42:10  41 08.5   -70 40.2
IRC -1 02714 01:43:34  41 07.2   -70 38.7 E IR camera run @ 1280' (390 m)
     0 02875 01:46:15  41 07.5   -70 29.6
IRC -1 02959 01:47:39  41 09.5   -70 28.7 W IR camera run @ 1280' (390 m)
     0 03321 01:53:41  41 09.5   -70 40.1
IRC -1 03438 01:55:38  41 12.1   -70 38.5 E IR camera run @ 1280' (390 m)
     0 03593 01:58:13  41 12.5   -70 29.6
IRC -1 03682 01:59:42  41 14.5   -70 28.6 W IR camera run @ 1280' (390 m)
     0 04059 02:05:59  41 14.3   -70 40.2
IRC -1 04178 02:07:58  41 17.0   -70 38.7 E IR camera run @ 1280' (390 m)
     0 04334 02:10:34  41 17.2   -70 29.7
IRC -1 04422 02:12:02  41 19.2   -70 28.7 W IR camera run @ 1280' (390 m)
     0 04782 02:18:02  41 19.1   -70 39.9
IRC -1 04876 02:19:36  41 20.8   -70 39.1 E IR camera run @ 1280' (390 m)
     0 05022 02:22:02  41 21.2   -70 30.6
```

Marker for D:08030052.ORG CLOSED at 440550

```
Total scans: 05049
Missed Ints: 00000
      BAT A: 0252450 of 0252450 000.000% Dropouts
      BAT B: 0252450 of 0252450 000.000% Dropouts
        ASH: 0025245 of 0025245 000.000% Dropouts
        TAN: 0039478 of 0050490 021.810% Dropouts
```

CBLAST-Low Pilot Study - Summer 2001

```
  Flight: 16
    Date: 05 AUG 01 (Sunday)
Duration: 0.7 hr
   Pilot: Timothy L. Crawford
```

Summary: Flight terminated because of heavy offshore fog and poor visibility.

Weather: Hazy, hot, and humid, light southwesterly winds ahead of a stalled cold front.

MVY ATIS: 1453 UTC calm 05V haze 1,200' broken 25//22/ 30.14
MVY ATIS: 1553 UTC calm 03V haze 1,900' broken 26//22/ 30.14

Instrumentation Notes & Comments:

University of Washington/WHOI infrared/visible camera system removed

Marker for D:08051541.ORG OPENED at 057063

```
STC -1 00005 15:51:07  41 23.3   -70 36.8 all systems on
     0 00063 15:52:05  41 23.3   -70 36.8
PRO -1 00635 16:01:37  41 19.6   -70 34.6 profile up to 3300' (1000 m)
     0 00944 16:06:46  41 10.3   -70 30.7
PRO -1 00946 16:06:48  41 10.2   -70 30.7 profile down from 3300' (1000 m)
     0 01581 16:17:23  41 00.8   -70 36.5

Marker for D:08051541.ORG CLOSED at 059436

Total scans:   02373
Missed Ints:   00000
      BAT A: 0118650 of 0118650 000.000% Dropouts
      BAT B: 0118650 of 0118650 000.000% Dropouts
        ASH: 0011865 of 0011865 000.000% Dropouts
        TAN: 0023636 of 0023730 000.396% Dropouts


CBLAST-Low Pilot Study - Summer 2001

  Flight: 17
    Date: 05 AUG 01 (Sunday)
Duration: 0.8 hr
   Pilot: Timothy L. Crawford

Summary: Flight terminated because of heavy offshore fog and poor
         visibility.

Weather: Hazy, hot, and humid, light southwesterly winds ahead of a
         stalled cold front.

MVY ATIS: 1952 UTC 220/10 05V haze 1800' broken 24//21/ 30.15

Instrumentation Notes & Comments: None

Marker for D:08052006.ORG OPENED at 072672

STC -1 00002 20:11:13  41 23.3   -70 36.8 all systems on
     0 00202 20:14:33  41 23.5   -70 36.8
PRO -1 00624 20:21:35  41 19.2   -70 37.7 profile down from 1400' (440 m)
     0 00836 20:25:07  41 20.4   -70 37.6

Marker for D:08052006.ORG CLOSED at 075326

Total scans:   02654
Missed Ints:   00000
      BAT A: 0132700 of 0132700 000.000% Dropouts
      BAT B: 0132700 of 0132700 000.000% Dropouts
        ASH: 0013270 of 0013270 000.000% Dropouts
        TAN: 0026529 of 0026540 000.041% Dropouts


CBLAST-Low Pilot Study - Summer 2001

  Flight: 18
    Date: 07 AUG 01 (Tuesday)
Duration: 4.1 hr
   Pilot: Timothy L. Crawford

Summary: "Spirograph"  and "bow tie" flux legs with short profiles over
         ASIMET and near-shore buoy, profiles.  Flight visibility about
         half a of mile.

Weather: Hazy, hot, and humid, moderate southwesterly winds ahead of a
         stalled cold front.
```

```
MVY ATIS: 1252 UTC 270/07 03V mist clear 26//23/ 29.96
MVY ATIS: 1455 UTC 210/12 04V haze clear 27//23/ 29.95
MVY ATIS: 1652 UTC 230/09 04V haze clear 28//23/ 29.91

Instrumentation Notes & Comments:

DGPS corrections unavailable after scan 13635 (flykin solution fails)

Marker for D:08071320.ORG OPENED at 221359

STC -1 00003 13:29:21  41 23.3   -70 36.8 all systems on
     0 00076 13:30:34  41 23.3   -70 36.9
FLX -1 00535 13:38:13  41 19.7   -70 35.7 flux leg south (180/)
     0 00871 13:43:49  41 10.2   -70 34.7
PRO -1 00871 13:43:49  41 10.2   -70 34.7 profile up/dn to 500' (150 m)
     0 01101 13:47:39  41 13.7   -70 35.4
FLX -1 01101 13:47:39  41 13.7   -70 35.4 flux leg northwest (335/)
     0 01329 13:51:27  41 20.0   -70 38.2
PRO -1 01329 13:51:27  41 20.0   -70 38.2 profile up/dn to 500' (150 m)
     0 01464 13:53:42  41 18.3   -70 38.1
FLX -1 01464 13:53:42  41 18.3   -70 38.1 flux leg southeast (150/)
     0 01766 13:58:44  41 11.2   -70 31.0
PRO -1 01766 13:58:44  41 11.2   -70 31.0 profile up/dn to 500' (150 m)
     0 01866 14:00:24  41 12.5   -70 29.6
FLX -1 01866 14:00:24  41 12.5   -70 29.6 flux leg northwest (295/)
     0 02228 14:06:26  41 17.8   -70 41.5
PRO -1 02228 14:06:26  41 17.8   -70 41.5 profile up/dn to 500' (150 m)
     0 02324 14:08:02  41 16.8   -70 41.1
FLX -1 02324 14:08:02  41 16.8   -70 41.1 flux leg east (110/)
     0 02627 14:13:05  41 14.7   -70 28.8
PRO -1 02627 14:13:05  41 14.7   -70 28.8 profile up/dn to 500' (150 m)
     0 02732 14:14:50  41 16.4   -70 27.8
FLX -1 02732 14:14:50  41 16.4   -70 27.8 flux leg west (255/)
     0 03149 14:21:47  41 14.4   -70 42.2
PRO -1 03149 14:21:47  41 14.4   -70 42.2 profile up/dn to 500' (150 m)
     0 03253 14:23:31  41 13.0   -70 41.0
FLX -1 03253 14:23:31  41 13.0   -70 41.0 flux leg northeast (060/)
     0 03545 14:28:23  41 18.1   -70 29.7
PRO -1 03545 14:28:23  41 18.1   -70 29.7 profile up/dn to 500' (150 m)
     0 03645 14:30:03  41 19.7   -70 30.2
FLX -1 03645 14:30:03  41 19.7   -70 30.2 flux leg southwest (220/)
     0 04060 14:36:58  41 11.4   -70 40.0
PRO -1 04060 14:36:58  41 11.4   -70 40.0 profile up/dn to 500' (150 m)
     0 04177 14:38:55  41 11.2   -70 37.3
FLX -1 04177 14:38:55  41 11.2   -70 37.3 flux leg north (015/)
     0 04477 14:43:55  41 20.5   -70 33.1
PRO -1 04477 14:43:55  41 20.5   -70 33.1 profile up/dn to 500' (150 m)
     0 04570 14:45:28  41 19.6   -70 32.0
FLX -1 04570 14:45:28  41 19.6   -70 32.0 flux leg southwest (220/)
     0 04944 14:51:42  41 11.1   -70 39.5
PRO -1 04944 14:51:42  41 11.1   -70 39.5 profile up/dn to 500' (150 m)
     0 05032 14:53:10  41 12.3   -70 40.4
FLX -1 05032 14:53:10  41 12.3   -70 40.4 flux leg northeast (050/)
     0 05318 14:57:56  41 18.5   -70 30.1
PRO -1 05318 14:57:56  41 18.5   -70 30.1 profile up/dn to 500' (150 m)
     0 05412 14:59:30  41 19.7   -70 31.3
FLX -1 05412 14:59:30  41 19.7   -70 31.3 flux leg southwest (215/)
     0 05801 15:05:59  41 11.1   -70 39.6
PRO -1 05801 15:05:59  41 11.1   -70 39.6 profile up/dn to 500' (150 m)
     0 05896 15:07:34  41 12.8   -70 39.9
FLX -1 05896 15:07:34  41 12.8   -70 39.9 flux leg northeast (060/)
     0 06164 15:12:02  41 18.0   -70 29.5
PRO -1 06164 15:12:02  41 18.0   -70 29.5 profile up/dn to 500' (150 m)
     0 06272 15:13:50  41 19.3   -70 30.4
FLX -1 06272 15:13:50  41 19.3   -70 30.4 flux leg southwest (220/)
```

```
     0 06674 15:20:32  41 11.1   -70 39.4
PRO -1 06701 15:20:59  41 10.5   -70 40.0 profile up to 3300' (1000 m)
     0 06987 15:25:45  41 02.0   -70 34.7
PRO -1 06989 15:25:47  41 02.0   -70 34.7 profile down from 3300' (1000 m)
     0 07318 15:31:16  40 54.4   -70 36.0
FLX -1 07322 15:31:20  40 54.6   -70 36.0 flux leg north (355/)
     0 07625 15:36:23  41 04.7   -70 36.1
PRO -1 07625 15:36:23  41 04.7   -70 36.1 profile up/dn to 500' (150 m)
     0 07728 15:38:06  41 04.4   -70 37.9
FLX -1 07728 15:38:06  41 04.4   -70 37.9 flux leg south (170/)
     0 08092 15:44:10  40 54.4   -70 33.8
PRO -1 08092 15:44:10  40 54.4   -70 33.8 profile up/dn to 500' (150 m)
     0 08194 15:45:52  40 55.8   -70 31.9
FLX -1 08194 15:45:52  40 55.8   -70 31.9 flux leg northwest (310/)
     0 08518 15:51:16  41 03.3   -70 40.3
PRO -1 08518 15:51:16  41 03.3   -70 40.3 profile up/dn to 500' (150 m)
     0 08625 15:53:03  41 02.0   -70 40.9
FLX -1 08625 15:53:03  41 02.0   -70 40.9 flux leg southeast (130/)
     0 08940 15:58:18  40 56.7   -70 29.7
PRO -1 08940 15:58:18  40 56.7   -70 29.7 profile up/dn to 500' (150 m)
     0 09065 16:00:23  40 58.9   -70 28.3
FLX -1 09065 16:00:23  40 58.9   -70 28.3 flux leg west (270/)
     0 09454 16:06:52  41 00.3   -70 42.7
PRO -1 09454 16:06:52  41 00.3   -70 42.7 profile up/dn to 500' (150 m)
     0 09556 16:08:34  40 58.7   -70 41.9
FLX -1 09556 16:08:34  40 58.7   -70 41.9 flux leg east (085/)
     0 09895 16:14:13  41 01.1   -70 27.1
PRO -1 09895 16:14:13  41 01.1   -70 27.1 profile up/dn to 500' (150 m)
     0 10013 16:16:11  41 02.6   -70 28.0
FLX -1 10013 16:16:11  41 02.6   -70 28.0 flux leg southwest (240/)
     0 10475 16:23:53  40 56.9   -70 41.9
PRO -1 10475 16:23:53  40 56.9   -70 41.9 profile up/dn to 500' (150 m)
     0 10584 16:25:42  40 55.8   -70 39.7
FLX -1 10584 16:25:42  40 55.8   -70 39.7 flux leg northeast (040/)
     0 10866 16:30:24  41 03.6   -70 31.7
PRO -1 10866 16:30:24  41 03.6   -70 31.7 profile up/dn to 500' (150 m)
     0 10986 16:32:24  41 04.7   -70 33.5
FLX -1 10986 16:32:24  41 04.7   -70 33.5 flux leg south (200/)
     0 11400 16:39:18  40 54.3   -70 38.4
PRO -1 11400 16:39:18  40 54.3   -70 38.4 profile up/dn to 500' (150 m)
     0 11526 16:41:24  40 54.9   -70 39.8
FLX -1 11526 16:41:24  40 54.9   -70 39.8 flux leg northeast (040/)
     0 11824 16:46:22  41 02.9   -70 30.8
PRO -1 11824 16:46:22  41 02.9   -70 30.8 profile up/dn to 500' (150 m)
     0 11921 16:47:59  41 01.9   -70 29.4
FLX -1 11921 16:47:59  41 01.9   -70 29.4 flux leg southwest (240/)
     0 12318 16:54:36  40 57.1   -70 42.0
PRO -1 12318 16:54:36  40 57.1   -70 42.0 profile up/dn to 500' (150 m)
     0 12422 16:56:20  40 55.8   -70 40.0
FLX -1 12422 16:56:20  40 55.8   -70 40.0 flux leg northeast (040/)
     0 12713 17:01:11  41 03.7   -70 31.6
PRO -1 12713 17:01:11  41 03.7   -70 31.6 profile up/dn to 500' (150 m)
     0 12818 17:02:56  41 02.6   -70 30.4
FLX -1 12818 17:02:56  41 02.6   -70 30.4 flux leg southwest (235/)
     0 13229 17:09:38  40 56.7   -70 42.3
PRO -1 13229 17:09:38  40 56.7   -70 42.3 profile up/dn to 500' (150 m)
     0 13332 17:11:30  40 56.4   -70 38.9
FLX -1 13332 17:11:30  40 56.4   -70 38.9 flux leg northeast (040/)
     0 13589 17:15:47  41 03.4   -70 31.3

Marker for D:08071320.ORG CLOSED at 235921

Total scans: 14558
Missed Ints: 00004
      BAT A: 0727898 of 0727900 000.000% Dropouts
```

```
      BAT B: 0727898 of 0727900 000.000% Dropouts
        ASH: 0072750 of 0072790 000.055% Dropouts
        TAN: 0145105 of 0145580 000.326% Dropouts


CBLAST-Low Pilot Study - Summer 2001

  Flight: 19
    Date: 08 AUG 01 (Wednesday)
Duration: 4.0 hr
   Pilot: Timothy L. Crawford

Summary: SAR overpass, "spirograph"  and "bow tie" flux legs with short
         profiles over ASIMET and near-shore buoy, profiles.

Weather: Hazy, very hot, and humid, very light northwesterly winds ahead
         of a stalled cold front.

MVY ATIS: 0921 UTC   calm 04V mist clear 20//19/ 29.86
MVY ATIS: 0953 UTC 190/06 03V      clear 20//19/ 29.87
MVY ATIS: 1301 UTC 010/03 07V      clear 28//22/ 29.88

Instrumentation Notes & Comments:

Data not differentially corrected prior to 01275, ground station off

Marker for D:08080955.ORG OPENED at 295384

FLX -1 01640 10:30:23  41 12.8   -70 36.0 SAR flux leg south (180/)
     0 02192 10:39:35  40 56.1   -70 35.6
FLX -1 02249 10:40:32  40 55.1   -70 34.1 SAR flux leg east (090/)
     0 02800 10:49:43  40 55.1   -70 10.6
FLX -1 02855 10:50:38  40 56.2   -70 09.1 SAR flux leg north (000/)
     0 03263 10:57:26  41 08.9   -70 09.2
FLX -1 03313 10:58:16  41 09.7   -70 10.5 SAR flux leg west (270/)
     0 03994 11:09:37  41 10.1   -70 36.2
PRO -1 04005 11:09:48  41 10.1   -70 36.6 profile up to 4000' (1200 m)
     0 04350 11:15:33  40 59.3   -70 36.2
PRO -1 04353 11:15:36  40 59.2   -70 36.2 profile down from 4000' (1200 m)
     0 04544 11:18:47  40 52.9   -70 36.6
FLX -1 04610 11:19:53  40 53.1   -70 35.1 flux leg north (355/)
     0 04986 11:26:09  41 04.6   -70 35.9
PRO -1 04986 11:26:09  41 04.6   -70 35.9 profile up/dn to 500' (150 m)
     0 05100 11:28:03  41 03.9   -70 37.9
FLX -1 05100 11:28:03  41 03.9   -70 37.9 flux leg south (165/)
     0 05418 11:33:21  40 54.7   -70 33.9
PRO -1 05418 11:33:21  40 54.7   -70 33.9 profile up/dn to 500' (150 m)
     0 05524 11:35:07  40 55.3   -70 31.3
FLX -1 05524 11:35:07  40 55.3   -70 31.3 flux leg northwest (315/)
     0 05877 11:41:00  41 03.4   -70 40.3
PRO -1 05877 11:41:00  41 03.4   -70 40.3 profile up/dn to 500' (150 m)
     0 05986 11:42:49  41 01.8   -70 41.2
FLX -1 05986 11:42:49  41 01.8   -70 41.2 flux leg southeast (125/)
     0 06282 11:47:45  40 57.0   -70 29.9
PRO -1 06282 11:47:45  40 57.0   -70 29.9 profile up/dn to 500' (150 m)
     0 06391 11:49:34  40 58.8   -70 28.7
FLX -1 06391 11:49:34  40 58.8   -70 28.7 flux leg west (275/)
     0 06743 11:55:26  41 00.3   -70 42.5
PRO -1 06743 11:55:26  41 00.3   -70 42.5 profile up/dn to 500' (150 m)
     0 06846 11:57:09  40 58.5   -70 41.9
FLX -1 06846 11:57:09  40 58.5   -70 41.9 flux leg east (080/)
     0 07143 12:02:06  41 00.4   -70 29.2
PRO -1 07143 12:02:06  41 00.4   -70 29.2 profile up/dn to 500' (150 m)
     0 07246 12:03:49  41 01.8   -70 30.1
FLX -1 07246 12:03:49  41 01.8   -70 30.1 flux leg southwest (240/)
```

```
     0 07584 12:09:27  40 56.9   -70 41.7
PRO -1 07584 12:09:27  40 56.9   -70 41.7 profile up/dn to 500' (150 m)
     0 07682 12:11:05  40 55.7   -70 40.2
FLX -1 07682 12:11:05  40 55.7   -70 40.2 flux leg northeast (040/)
     0 07988 12:16:11  41 03.5   -70 31.5
PRO -1 07988 12:16:11  41 03.5   -70 31.5 profile up/dn to 500' (150 m)
     0 08107 12:18:10  41 04.1   -70 33.4
FLX -1 08107 12:18:10  41 04.1   -70 33.4 flux leg southwest (205/)
     0 08433 12:23:36  40 54.7   -70 38.2
PRO -1 08437 12:23:40  40 54.6   -70 38.2 profile up to 4000' (1200 m)
     0 08783 12:29:26  41 02.1   -70 38.7
PRO -1 08785 12:29:28  41 02.2   -70 38.7 profile down from 4000' (1200 m)
     0 09030 12:33:33  41 10.0   -70 36.8
FLX -1 09044 12:33:47  41 10.4   -70 36.7 flux leg north (000/)
     0 09347 12:38:50  41 20.1   -70 35.6
PRO -1 09347 12:38:50  41 20.1   -70 35.6 profile up/dn to 500' (150 m)
     0 09435 12:40:18  41 19.4   -70 37.1
FLX -1 09435 12:40:18  41 19.4   -70 37.1 flux leg south (170/)
     0 09723 12:45:06  41 10.5   -70 33.4
PRO -1 09723 12:45:06  41 10.5   -70 33.4 profile up/dn to 500' (150 m)
     0 09840 12:47:03  41 11.3   -70 31.2
FLX -1 09840 12:47:03  41 11.3   -70 31.2 flux leg northwest (320/)
     0 10171 12:52:34  41 19.2   -70 39.8
PRO -1 10171 12:52:34  41 19.2   -70 39.8 profile up/dn to 500' (150 m)
     0 10284 12:54:27  41 17.5   -70 41.0
FLX -1 10284 12:54:27  41 17.5   -70 41.0 flux leg southeast (120/)
     0 10572 12:59:15  41 12.8   -70 29.6
PRO -1 10572 12:59:15  41 12.8   -70 29.6 profile up/dn to 500' (150 m)
     0 10687 13:01:10  41 14.5   -70 28.7
FLX -1 10687 13:01:10  41 14.5   -70 28.7 flux leg west (280/)
     0 11032 13:06:55  41 16.2   -70 42.3
PRO -1 11032 13:06:55  41 16.2   -70 42.3 profile up/dn to 500' (150 m)
     0 11146 13:08:49  41 14.2   -70 41.8
FLX -1 11146 13:08:49  41 14.2   -70 41.8 flux leg east (080/)
     0 11439 13:13:42  41 16.1   -70 28.9
PRO -1 11439 13:13:42  41 16.1   -70 28.9 profile up/dn to 500' (150 m)
     0 11549 13:15:32  41 17.7   -70 29.7
FLX -1 11549 13:15:32  41 17.7   -70 29.7 flux leg southwest (240/)
     0 11898 13:21:21  41 12.6   -70 41.7
PRO -1 11898 13:21:21  41 12.6   -70 41.7 profile up/dn to 500' (150 m)
     0 12008 13:23:11  41 11.0   -70 39.9
FLX -1 12008 13:23:11  41 11.0   -70 39.9 flux leg northeast (035/)
     0 12329 13:28:32  41 19.3   -70 31.3
PRO -1 12329 13:28:32  41 19.3   -70 31.3 profile up/dn to 500' (150 m)
     0 12437 13:30:20  41 19.9   -70 33.7
FLX -1 12437 13:30:20  41 19.9   -70 33.7 flux leg south (205/)
     0 12768 13:35:51  41 10.6   -70 38.1
WAG -1 12778 13:36:01  41 10.3   -70 38.3 roll wag cal for radar
     0 12848 13:37:11  41 08.3   -70 38.9
PTC -1 12864 13:37:27  41 07.9   -70 39.0 pitch up/dn cal for radar
     0 12949 13:38:52  41 05.6   -70 40.1
PRO -1 12968 13:39:11  41 05.0   -70 40.4 profile up to 3300' (1000 m)
     0 13173 13:42:36  41 05.9   -70 43.9
WCR -1 13238 13:43:41  41 06.9   -70 43.1 wind circle right
     0 13418 13:46:41  41 06.9   -70 41.8
WCL -1 13425 13:46:48  41 07.1   -70 41.0 wind circle left
     0 13560 13:49:03  41 07.2   -70 40.2
STC -1 14286 14:01:09  41 23.3   -70 36.8 preparing to shut down all systems
     0 14323 14:01:46  41 23.3   -70 36.8

Marker for D:08080955.ORG CLOSED at 309711

Total scans: 14327
Missed Ints: 00000
      BAT A: 0716350 of 0716350 000.000% Dropouts
```

```
      BAT B: 0716350 of 0716350 000.000% Dropouts
        ASH: 0071635 of 0071635 000.000% Dropouts
        TAN: 0141766 of 0143270 001.050% Dropouts


CBLAST-Low Pilot Study - Summer 2001

  Flight: 20
    Date: 08 AUG 01 (Wednesday)
Duration: 1.5 hr
   Pilot: Timothy L. Crawford

Summary: Flux leg intercomparisons with R/V Asterias.

Weather: Hazy, very hot, and humid, very light northwesterly winds ahead
         of a stalled cold front.

MVY ATIS: 1452 UTC 340/05 07V clear 30//23/ 29.88
MVY ATIS: 1652 UTC 290/06 09V clear 31//23/ 29.87

Instrumentation Notes & Comments: None

Marker for D:08081526.ORG OPENED at 315441

STC -1 00002 15:37:22  41 23.3   -70 36.8 all systems on
     0 00034 15:37:54  41 23.3   -70 36.8
FLX -1 00468 15:45:08  41 19.2   -70 33.7 flux leg south (200/)
     0 00615 15:47:35  41 15.0   -70 35.2
PRO -1 00615 15:47:35  41 15.0   -70 35.2 profile up/dn to 500' (150 m)
     0 00795 15:50:35  41 12.9   -70 36.2
FLX -1 00795 15:50:35  41 12.9   -70 36.2 flux leg north (010/)
     0 00993 15:53:53  41 18.9   -70 34.1
FLX -1 01094 15:55:34  41 19.9   -70 33.6 flux leg south (200/)
     0 01265 15:58:25  41 14.9   -70 35.7
PRO -1 01265 15:58:25  41 14.9   -70 35.7 profile up/dn to 500' (150 m)
     0 01430 16:01:10  41 13.1   -70 36.4
FLX -1 01430 16:01:10  41 13.1   -70 36.4 flux leg north (010/)
     0 01627 16:04:27  41 18.8   -70 34.1
FLX -1 01734 16:06:14  41 20.1   -70 33.2 flux leg south (200/)
     0 01926 16:09:26  41 14.6   -70 35.3
PRO -1 01926 16:09:26  41 14.6   -70 35.3 profile up/dn to 500' (150 m)
     0 02075 16:11:55  41 12.7   -70 36.5
FLX -1 02075 16:11:55  41 12.7   -70 36.5 flux leg north (010/)
     0 02286 16:15:26  41 18.9   -70 34.1
FLX -1 02389 16:17:09  41 19.8   -70 33.3 flux leg south (200/)
     0 02579 16:20:19  41 14.7   -70 35.8
PRO -1 02579 16:20:19  41 14.7   -70 35.8 profile up/dn to 500' (150 m)
     0 02749 16:23:09  41 12.6   -70 36.5
FLX -1 02749 16:23:09  41 12.6   -70 36.5 flux leg north (010/)
     0 02965 16:26:45  41 18.9   -70 34.1
FLX -1 03077 16:28:37  41 19.9   -70 33.2 flux leg southwest (220/)
     0 03282 16:32:02  41 14.8   -70 36.5
PRO -1 03282 16:32:02  41 14.8   -70 36.5 profile up/dn to 500' (150 m)
     0 03431 16:34:31  41 13.7   -70 36.8
FLX -1 03431 16:34:31  41 13.7   -70 36.8 flux leg north (020/)
     0 03630 16:37:50  41 19.1   -70 33.0
FLX -1 03746 16:39:46  41 19.9   -70 32.2 flux leg southwest (210/)
     0 03971 16:43:31  41 14.4   -70 36.1
PRO -1 03971 16:43:31  41 14.4   -70 36.1 profile up/dn to 500' (150 m)
     0 04124 16:46:04  41 12.5   -70 36.1
FLX -1 04124 16:46:04  41 12.5   -70 36.1 flux leg north (010/)
     0 04346 16:49:46  41 19.1   -70 33.5
FLX -1 04426 16:51:06  41 19.7   -70 33.4 flux leg southwest (210/)
     0 04636 16:54:36  41 14.3   -70 36.2
PRO -1 04639 16:54:39  41 14.2   -70 36.2 profile up to 3000' (1000 m)
```

```
     0 04970 17:00:10  41 14.7   -70 40.5

Marker for D:08081526.ORG CLOSED at 320799

Total scans:   05358
Missed Ints:   00000
      BAT A: 0267900 of 0267900 000.000% Dropouts
      BAT B: 0267900 of 0267900 000.000% Dropouts
        ASH: 0026790 of 0026790 000.000% Dropouts
        TAN: 0053153 of 0053580 000.797% Dropouts
```