```
------------------------------------------------------------------------
DC-8 Mission Director Log

                                  Mission  Name: AFWEX
                                  Flight Number: 010105
                                           Day : 334
                                           Date: Nov 29, 2000
------------------------------------------------------------------------
23:09:27 | GPS-2 has been selected for EU conversions.
--------------
23:09:48 | GPS-1 has been selected for EU conversions.
--------------
23:10:00 | GPS-2 has been selected for EU conversions.
--------------
23:10:07 | Pilot - Ed Lewis, Co - Dick Ewers, FE - Marty Trout,
         | Nav - Russ Padula
--------------
23:10:12 | MD - Chris Miller
--------------
23:10:20 | AMD - Mike Kapitzke
--------------
23:11:10 | Pretaxi cargo temps 78/74/84/78/85/92
--------------
23:11:20 | Brake Release - 23:01:12
--------------
23:11:35 | Take Off - 23:01:42
--------------
         |
------------------------------------------------------------------------
23:11:56 | >>>> Start of run: 200kias fl200, 23:11:30
         |
         | Next waypoint:        ?              NMS:               1
         | Pressure alt:     20007              Latitude:   +36 01.8
         | Radar alt:        19110              Longitude: -097 48.9
--------------
23:13:20 | Power Checks Okay
--------------
23:13:50 | Cargo temps 70/69/78/78/81/95
--------------
23:21:30 | >>>> End of run: 200kias fl200, 23:11:30
         |
         | Next waypoint:        ?              NMS:               1
         | Pressure alt:     19996              Latitude:   +36 23.7
         | Radar alt:        18988              Longitude: -098 23.6
------------------------------------------------------------------------
         |
--------------
         |
------------------------------------------------------------------------
23:23:00 | >>>> Start of run: 250kias fl200
         |
         | Next waypoint:        ?              NMS:               1
         | Pressure alt:     20010              Latitude:   +36 27.8
         | Radar alt:        19018              Longitude: -098 29.9
--------------
23:33:00 | >>>> End of run: 250kias fl200
         |
         | Next waypoint:        ?              NMS:               1
         | Pressure alt:     20002              Latitude:   +36 59.1
         | Radar alt:        18328              Longitude: -099 16.5
------------------------------------------------------------------------
         |
--------------
         |
------------------------------------------------------------------------
23:34:10 | >>>> Start of run: 290kias fl200
         |
         | Next waypoint:        ?              NMS:               1
```

```
         | Pressure alt:     20018              Latitude:   +37 03.1
         | Radar alt:        18487              Longitude: -099 22.6
--------------
23:35:21 | run will be for 12 min. for 2 min. calibration
--------------
23:46:10 | >>>> End of run: 290kias fl200
         |
         | Next waypoint:        ?              NMS:               1
         | Pressure alt:     20002              Latitude:   +37 47.1
         | Radar alt:        17482              Longitude: -100 30.6
-------------------------------------------------------------------------
         |
--------------
23:46:52 | all instruments good to go
--------------
23:47:02 | climbing to fl250
--------------
         |
-------------------------------------------------------------------------
23:58:00 | >>>> Start of run: 290kias fl250
         |
         | Next waypoint:        ?              NMS:               1
         | Pressure alt:     24988              Latitude:   +38 24.8
         | Radar alt:        22662              Longitude: -100 18.5
--------------
00:08:00 | >>>> End of run: 290kias fl250
         |
         | Next waypoint:        ?              NMS:               1
         | Pressure alt:     25004              Latitude:   +37 34.9
         | Radar alt:        23384              Longitude: -098 58.9
-------------------------------------------------------------------------
         |
--------------
         |
-------------------------------------------------------------------------
00:09:30 | >>>> Start of run: 250kias fl250
         |
         | Next waypoint:        ?              NMS:               1
         | Pressure alt:     24999              Latitude:   +37 27.9
         | Radar alt:        23499              Longitude: -098 47.9
--------------
00:21:30 | >>>> End of run: 250kias fl250
         |
         | Next waypoint:        ?              NMS:               1
         | Pressure alt:     25020              Latitude:   +36 33.0
         | Radar alt:        24497              Longitude: -097 24.5
-------------------------------------------------------------------------
         |
--------------
00:22:02 | previous run 12 min. for 2 min. calibration
--------------
00:22:18 | skip 200kias run
--------------
00:22:42 | descending to 3000ft.
--------------
00:30:55 | Power looks good
--------------
00:31:32 | Cargo Temps 58/58/73/70/73/87
--------------
00:40:29 | Level off at 3000ft
--------------
00:40:58 | begin climb up FL400
--------------
00:41:03 | cleared to fl190
--------------
00:43:18 | cleared to 14000ft
--------------
00:50:45 | cleared to fl230
```

```
--------------
00:57:35 | cleared to fl250
--------------
01:04:09 | Level at fl250
--------------
01:04:42 | DLH ready for climb
--------------
01:05:02 | cleared to fl330
--------------
01:05:31 | cleared to fl400
--------------
01:09:52 | increase to 7mile climbing orbit
--------------
01:16:22 | increase to 10mile climbing orbit
--------------
01:26:36 | level out at fl400 and setting up for bow tie
--------------
         |
-------------------------------------------------------------------------
01:30:57 | >>>> Start of run: first bowtie at fl400
         |
         | Next waypoint:        ?              NMS:               1
         | Pressure alt:     40031              Latitude:   +36 03.8
         | Radar alt:        39758              Longitude: -097 26.7
--------------
01:35:56 | CPA
         |
         | Next waypoint:        ?              NMS:               1
         | Pressure alt:     40041              Latitude:   +36 37.0
         | Radar alt:        39805              Longitude: -097 30.0
--------------

--------------
01:40:58 | >>>> End of run: first bowtie at fl400
         |
         | Next waypoint:        ?              NMS:               1
         | Pressure alt:     40028              Latitude:   +37 10.0
         | Radar alt:        39443              Longitude: -097 33.4
-------------------------------------------------------------------------
         |
--------------
01:41:11 | descending to fl350
--------------
01:46:28 | level at fl350
--------------
         |
-------------------------------------------------------------------------
01:46:53 | >>>> Start of run: first bowtie at fl350
         |
         | Next waypoint:        ?              NMS:               1
         | Pressure alt:     35030              Latitude:   +37 10.7
         | Radar alt:        34500              Longitude: -097 22.6
--------------
01:52:09 | CPA
         |
         | Next waypoint:        ?              NMS:               1
         | Pressure alt:     35026              Latitude:   +36 37.1
         | Radar alt:        34673              Longitude: -097 30.0
--------------

--------------
01:56:53 | >>>> End of run: first bowtie at fl350
         |
         | Next waypoint:        ?              NMS:               1
         | Pressure alt:     35044              Latitude:   +36 05.3
         | Radar alt:        34835              Longitude: -097 36.3
-------------------------------------------------------------------------
         |
```

```
--------------
01:57:03 | descend to fl310
--------------
02:00:55 | Level at fl310
--------------
         |
-------------------------------------------------------------------------
02:01:30 | >>>> Start of run: first bowtie at fl310
         |
         | Next waypoint:       ?              NMS:               1
         | Pressure alt:    31024              Latitude:   +36 01.8
         | Radar alt:       30758              Longitude: -097 24.2
--------------
02:07:16 | CPA
         |
         | Next waypoint:       ?              NMS:               1
         | Pressure alt:    31121              Latitude:   +36 36.9
         | Radar alt:       30804              Longitude: -097 29.9
--------------

--------------
02:11:30 | >>>> End of run: first bowtie at fl310
         |
         | Next waypoint:       ?              NMS:               1
         | Pressure alt:    31044              Latitude:   +37 07.0
         | Radar alt:       30591              Longitude: -097 34.8
-------------------------------------------------------------------------
         |
--------------
02:11:40 | descend to fl280
--------------
02:14:44 | level at fl280
--------------
         |
-------------------------------------------------------------------------
02:15:00 | >>>> Start of run: first bowtie at fl280
         |
         | Next waypoint:       ?              NMS:               1
         | Pressure alt:    28005              Latitude:   +37 07.2
         | Radar alt:       27366              Longitude: -097 20.6
--------------
02:19:43 | CPA
         |
         | Next waypoint:       ?              NMS:               1
         | Pressure alt:    28036              Latitude:   +36 37.0
         | Radar alt:       27664              Longitude: -097 30.0
--------------

--------------
02:25:00 | >>>> End of run: first bowtie at fl280
         |
         | Next waypoint:       ?              NMS:               1
         | Pressure alt:    28032              Latitude:   +36 03.6
         | Radar alt:       27646              Longitude: -097 40.5
-------------------------------------------------------------------------
         |
--------------
02:25:05 | descend to fl250
--------------
02:28:00 | level at fl250
--------------
         |
-------------------------------------------------------------------------
02:28:18 | >>>> Start of run: run at fl250 @ 02:28:00
         |
         | Next waypoint:       ?              NMS:               1
         | Pressure alt:    25022              Latitude:   +36 11.4
         | Radar alt:       24556              Longitude: -097 45.7
```

```
--------------
02:32:42 | CPA
         |
         | Next waypoint:       ?              NMS:              1
         | Pressure alt:    25030              Latitude:   +36 37.0
         | Radar alt:       24527              Longitude: -097 29.9
--------------

--------------
02:38:00 | >>>> End of run: run at fl250 @ 02:28:00
         |
         | Next waypoint:       ?              NMS:              1
         | Pressure alt:    25034              Latitude:   +37 07.6
         | Radar alt:       24362              Longitude: -097 10.6
-------------------------------------------------------------------------
         |
--------------
02:38:08 | climb to fl280
--------------
02:38:17 | Power checks are good
--------------
02:38:43 | cargo temps 57/48/58/55/60/72
--------------
         |
-------------------------------------------------------------------------
02:41:00 | >>>> Start of run: second bowtie at fl280
         |
         | Next waypoint:       ?              NMS:              1
         | Pressure alt:    28060              Latitude:   +37 09.9
         | Radar alt:       27394              Longitude: -097 20.9
--------------
02:46:08 | CPA
         |
         | Next waypoint:       ?              NMS:              1
         | Pressure alt:    27994              Latitude:   +36 37.1
         | Radar alt:       27639              Longitude: -097 30.1
--------------

--------------
02:51:00 | >>>> End of run: second bowtie at fl280
         |
         | Next waypoint:       ?              NMS:              1
         | Pressure alt:    27988              Latitude:   +36 05.9
         | Radar alt:       27672              Longitude: -097 38.7
-------------------------------------------------------------------------
         |
--------------
02:51:07 | climb to fl310
--------------
         |
-------------------------------------------------------------------------
02:54:30 | >>>> Start of run: second bowtie at fl310
         |
         | Next waypoint:       ?              NMS:              1
         | Pressure alt:    30982              Latitude:   +36 05.2
         | Radar alt:       30669              Longitude: -097 22.9
--------------
02:59:29 | CPA
         |
         | Next waypoint:       ?              NMS:              1
         | Pressure alt:    31006              Latitude:   +36 37.0
         | Radar alt:       30716              Longitude: -097 29.9
--------------

--------------
03:04:30 | >>>> End of run: second bowtie at fl310
         |
         | Next waypoint:       ?              NMS:              1
```

```
         | Pressure alt:     31006              Latitude:   +37 09.0
         | Radar alt:        30478              Longitude: -097 37.3
-------------------------------------------------------------------
         |
--------------
03:04:41 | climb to fl350
--------------
         |
-------------------------------------------------------------------
03:08:30 | >>>> Start of run: second bowtie at fl350
         |
         | Next waypoint:        ?              NMS:               1
         | Pressure alt:     35036              Latitude:   +37 10.5
         | Radar alt:        34480              Longitude: -097 20.9
--------------
03:13:27 | CPA
         |
         | Next waypoint:        ?              NMS:               1
         | Pressure alt:     34984              Latitude:   +36 37.1
         | Radar alt:        34688              Longitude: -097 30.0
--------------

--------------
03:18:30 | >>>> End of run: second bowtie at fl350
         |
         | Next waypoint:        ?              NMS:               1
         | Pressure alt:     34993              Latitude:   +36 03.2
         | Radar alt:        34706              Longitude: -097 39.2
-------------------------------------------------------------------
         |
--------------
03:18:39 | climb to fl410
--------------
         |
-------------------------------------------------------------------
03:24:30 | >>>> Start of run: bowtie at fl410
         |
         | Next waypoint:        ?              NMS:               1
         | Pressure alt:     41036              Latitude:   +36 01.5
         | Radar alt:        40768              Longitude: -097 18.9
--------------
03:30:29 | CPA
         |
         | Next waypoint:        ?              NMS:               1
         | Pressure alt:     40982              Latitude:   +36 36.9
         | Radar alt:        40588              Longitude: -097 30.0
--------------

--------------
03:34:30 | >>>> End of run: bowtie at fl410
         |
         | Next waypoint:        ?              NMS:               1
         | Pressure alt:     41004              Latitude:   +36 59.8
         | Radar alt:        40335              Longitude: -097 37.2
-------------------------------------------------------------------
         |
--------------
03:35:35 | setting up for spiral descent to 3000ft
--------------
03:40:16 | begin spiral descent
         |
         | Next waypoint:        ?              NMS:               1
         | Pressure alt:     40987              Latitude:   +36 32.5
         | Radar alt:        40600              Longitude: -097 39.5
--------------

--------------
03:40:25 | cleared to fl240
```

```
--------------
03:50:06 | cleared to 3000ft
--------------
03:56:41 | pausing at fl250
--------------
03:58:22 | continuing the descent to 3000ft
--------------
04:06:15 | Instrument Status/Debrief
--------------
04:07:25 | AS - Good flight, 1 hour post flight, pre flight no
         | opinion
--------------
04:07:46 | COAST - Good flight, min post flight, preflight plane
--------------
04:08:16 | LASE - Excellent flight, 1 hour post flight, preflight
         | plane
--------------
04:08:56 | SHIS - Good flight, 1 hour post flight, preflight
         | plane no issue
--------------
04:09:25 | DACOM/DLH - Good flight, min post flight, preflight
         | plane
--------------
04:09:42 | DADS - Great flight, preflight plane
--------------
04:10:13 | Scientist - Good flight, flight plan worked well
--------------
04:14:32 | end spiral at 9500ft
--------------
04:14:36 | rtb
--------------
```