

DC-8 Flight Plan for Sunday 8/5/07

This will be a coordinated flight with the ER-2 and WB57

Objectives:

- 1) Series of race tracks in cirrus blowoff coordinated with the ER-2 with its a-Train payload and the WB-57 with its in situ capability – multiple race tracks planned
- 2) Boundary layer sampling of convective inflow
- 3) Boundary layer sampling of biogenic gasses over Western Colombia

Plan: Flight plan is shown below.

The DC-8 will take off first followed by the other two aircraft. We first begin series of race tracks just south east of the Panama Bight starting below cloud and ascending through the cirrus blow off. After the 57 departs the DC-8 will descend to the ocean boundary layer to sample inflow into the convective system on the way to Colombia. We then fly up the valley in Colombia at low level. Exiting Colombia we ascend to altitude and over fly the Bight region on the way to SJ.

Notes:

Dropsondes during racetrack.

Boundary layer run will probably muck up CAS so that is last

Racetrack will probably move on launch.

NATIVE will launch sonde at 1500 Z

Launch at 5:45 local – 7.5 hours

PT	Lat	Lon	Dist(nm)	Pres	Time
A	10 00' 00" N	84 11' 59" W	0	1000.00	0:00 1145Z
B	7 50' 24" N	79 25' 48" W	311	300.000	0:53 1238Z
C	6 26' 59" N	80 53' 23" W	432	300.000	1:14 1259Z
B	7 50' 24" N	79 25' 48" W	552	274.000	1:35 1319Z
C	6 26' 59" N	80 53' 23" W	673	274.000	1:55 1340Z
B	7 50' 24" N	79 25' 48" W	794	274.000	2:16 1401Z
C	6 26' 59" N	80 53' 23" W	914	249.000	2:37 1421Z
B	7 50' 24" N	79 25' 48" W	1035	249.000	2:57 1442Z
C	6 26' 59" N	80 53' 23" W	1156	249.000	3:18 1503Z
B	7 50' 24" N	79 25' 48" W	1276	227.000	3:39 1523Z
C	6 26' 59" N	80 53' 23" W	1397	227.000	3:59 1544Z
B	6 14' 07" N	80 03' 35" W	1448	900.000	4:08 1553Z
B	5 37' 58" N	77 50' 23" W	1586	900.000	4:32 1616Z
B	5 18' 00" N	76 45' 00" W	1654	700.000	4:43 1628Z
B	7 00' 00" N	76 45' 00" W	1756	900.000	5:01 1645Z
B	8 00' 00" N	77 30' 00" W	1831	900.000	5:14 1658Z
B	8 21' 49" N	78 35' 59" W	1900	249.000	5:26 1710Z
B	9 32' 47" N	82 20' 59" W	2134	249.000	6:06 1750Z
C	10 00' 00" N	84 11' 59" W	2247	1000.00	6:25 1809Z

300 mb = FL 300

274 mb = FL 320

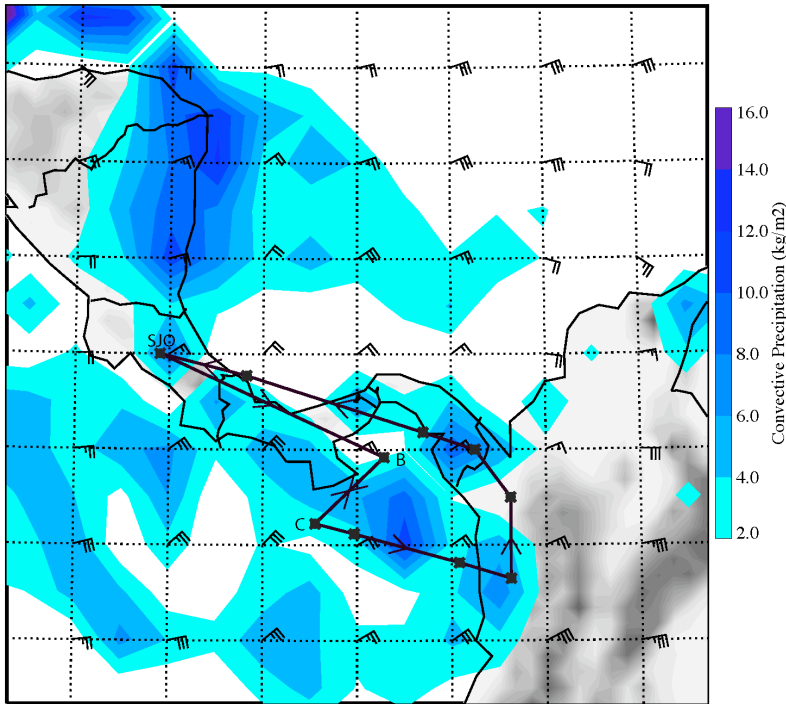
249 mb = FL 340

227 mb = FL 360

900 mb = below FL 50

1000 mb = landing

NCEP GFS Wind Flags (knots) on Press = 250. hPa
 Init:2007080406 Valid:2007080518



Racetrack between B & C, flight path is counterclockwise

