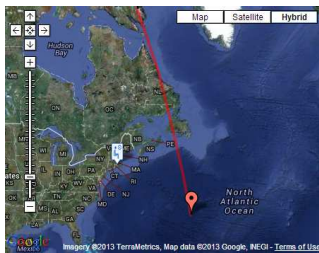


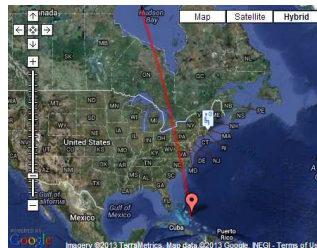
VO52 (Launched 2005) Passes During FD 2013

Start	22/6 - 17h59	2147	120	9	YES	628	31.9	-52.9	23	Radio
Apex	22/6 - 18h02	1444	82	21	YES	631	42.8	-56.0	23	Radio
End	22/6 - 18h08	2679	6	3	YES	634	64.4	-66.2	22	Radio
Start	22/6 - 19h34	2216	194	8	YES	627	24.2	-75.4	7	Radio
Apex	22/6 - 19h39	1025	276	36	YES	631	42.5	-80.1	7	Radio
End	22/6 - 19h44	2532	337	5	YES	633	60.5	-87.8	6	Radio
Start	23/6 - 07h20	2291	25	7	YES	630	58.6	-56.2	21	Radio
Apex	23/6 - 07h25	938	104	40	YES	626	40.6	-63.4	22	Radio
End	23/6 - 07h31	2801	175	1	YES	620	18.6	-68.8	23	Radio
Start	23/6 - 08h57	2172	344	9	YES	630	59.0	-80.3	36	Radio
Apex	23/6 - 09h00	1511	306	20	YES	628	48.2	-85.1	37	Radio
End	23/6 - 09h06	2748	234	2	YES	622	26.3	-91.3	37	Radio

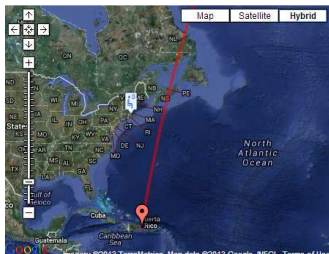
Saturday 1759-1808



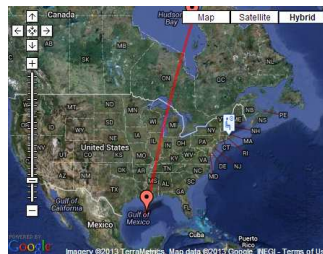
Saturday 1934-1944



Sunday 0720-0731



Sunday 0857-0906



Mode V Beacon (Indian Beacon) Downlink 145.9360

Mode V Beacon (Dutch Beacon) Downlink 145.8600:

Mode U/V (B) Linear Transponder (Inverting) (Indian Transponder):

Uplink: 435.2200 - 435.2800 MHz SSB/CW

Downlink 145.9300 - 145.8700 MHz SSB/CW

Mode U/V (B) Linear Transponder (Inverting) (Dutch Transponder):

Uplink: 435.2250 - 435.2750 MHz SSB/CW