LEOP support of O3B satellite Launch Vehicle injection from USN's Hawaii ground station

O3B is the first satellite in a series of spacecraft to provide Internet services to less populated areas of the planet. The spacecraft will be launched from French Guiana on a Soyuz vehicle on June 24th, 2013 at 18:53:51 UTC. USN has been contracted to support the pre-injection burn of spacecraft during a single pass for a duration of 114 minutes. Mission profile for USN is shown in figure 1. USN will only receive telemetry and tracking information from the vehicle and will not uplink to the vehicle or spacecraft.

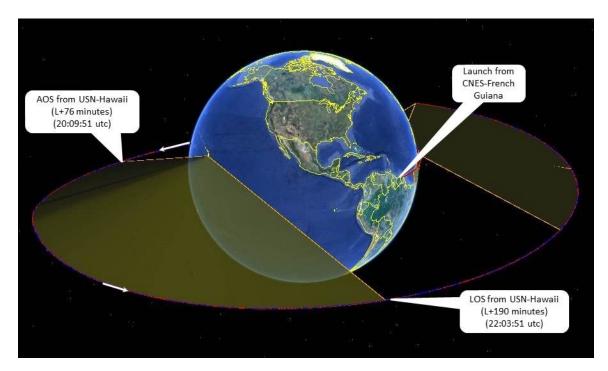


Figure 1 - O3B Launch vehicle coverage from Hawaii

O3B vehicle pass coverage

USN will track the launch vehicle from between the positions shown in table 1 below for a total duration of 114 minutes (also shown in figure 1 above). The tracking frequency is shown in table 2. Data will be collected and forwarded to CNES in real-time.

	Time	Spacecraft sub-earth Latitude	Spacecraft sub-earth Longitude	Spacecraft Altitude
Acquisition of Signal (AOS)	20:09:51utc	2.55° South	149.53° East	5330 Km
Loss of Signal (LOS)	22:03:51utc	0.01° South	92.94° West	7839 Km

Table 1 – Support times and positions

	Downlink	Uplink
Soyuz	2218.0 MHz	N/A

Table 2 – Radio Frequency