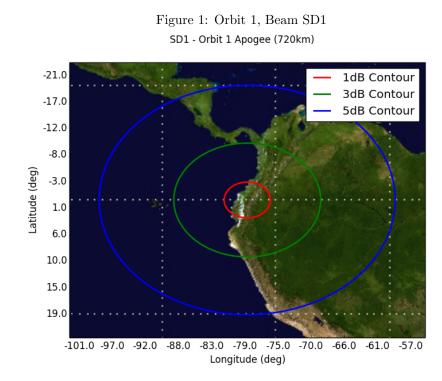
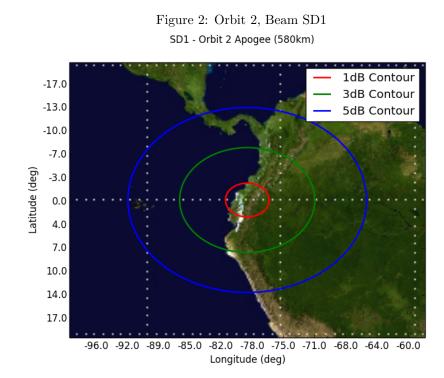
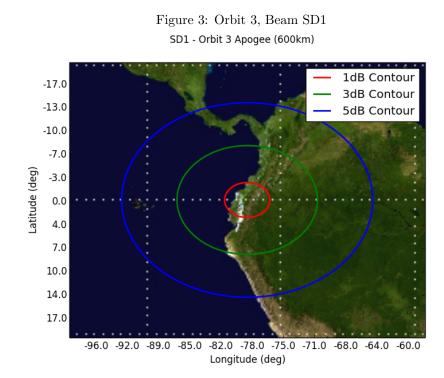
Antenna Pattern Contours: SD1

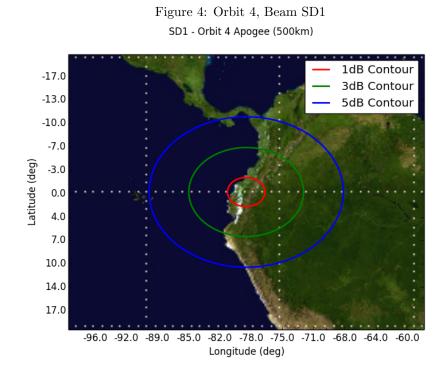
 ${\rm Harrison} \ {\rm Caudill} < {\rm harrison} @ {\rm spire.com} >$

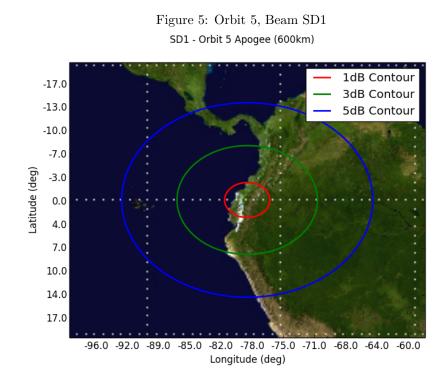
November 11, 2016

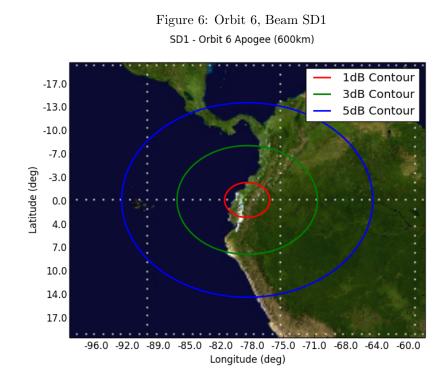




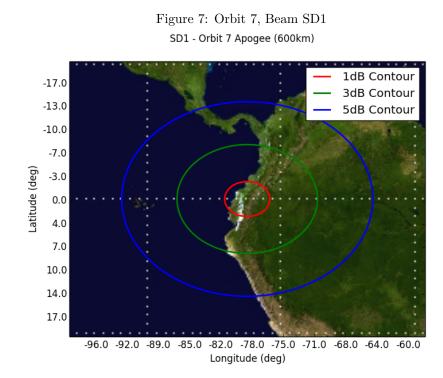


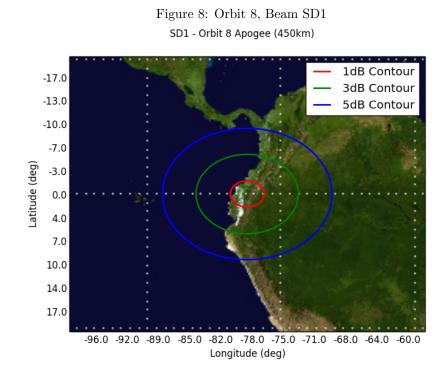






 $\overline{7}$





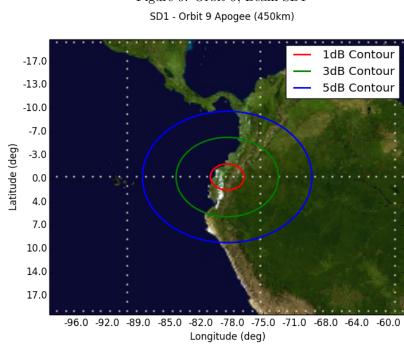
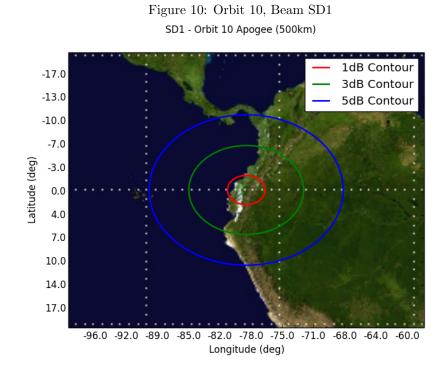
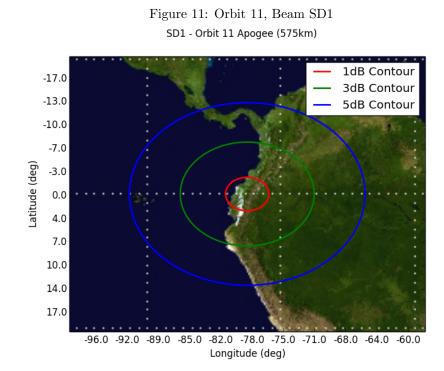
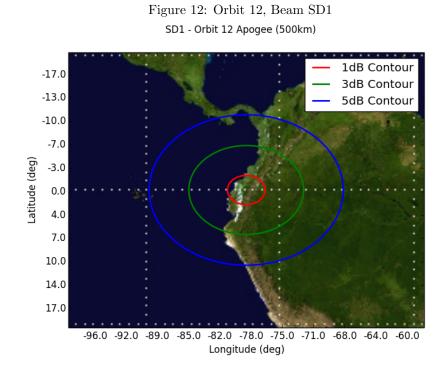
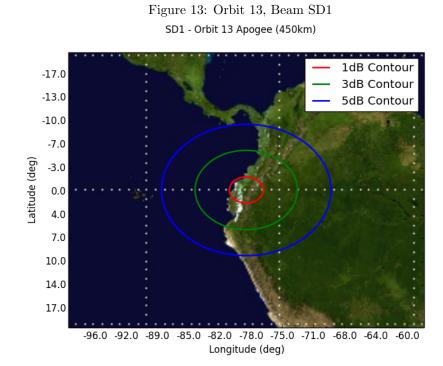


Figure 9: Orbit 9, Beam SD1









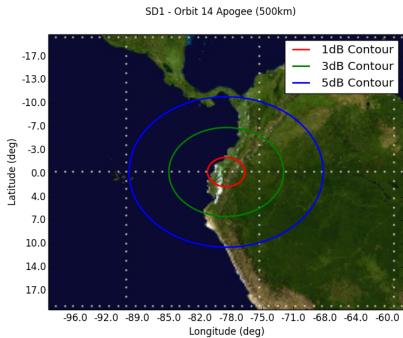


Figure 14: Orbit 14, Beam SD1

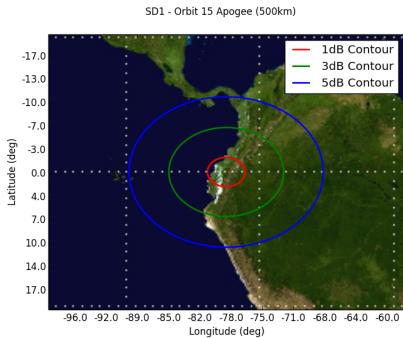


Figure 15: Orbit 15, Beam SD1

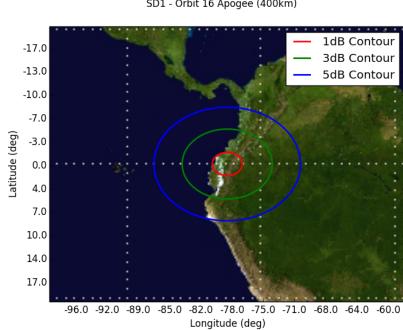


Figure 16: Orbit 16, Beam SD1 SD1 - Orbit 16 Apogee (400km)