

APRIZESAT FLIGHT PROFILES

AprizeSat-5, AprizeSat-6 and EduSat do not have any propulsion or station-keeping capability. Because the satellites are inserted into an elliptical orbit, their RAAN (local time of the ascending node) will precess over time. This will move them away from other satellites in the 10:30 local time sun-synchronous orbit. The resulting orbit for the satellites will be in a region with very few satellites.

The JSOC provides regular updates on potential near collisions of low-Earth orbit satellites. To the extent that other operating satellites have the ability to maneuver, they can adjust their orbit to avoid a collision.

The orbits for AprizeSat-5 and 6 and EduSat are considerably higher than any inhabitable orbiting space stations and will stay there for at least 20 years. As shown in the chart below, the satellites will not remain in any manned orbit for any substantial time during its orbital decay and atmospheric reentry.

