

- **IOV Orbital configuration**

- Galileo 101 – Plane B slot 9
- Galileo 102 – Plane B slot 1
- Galileo 103 – Plane A slot 1
- Galileo 104 – Plane A slot 2

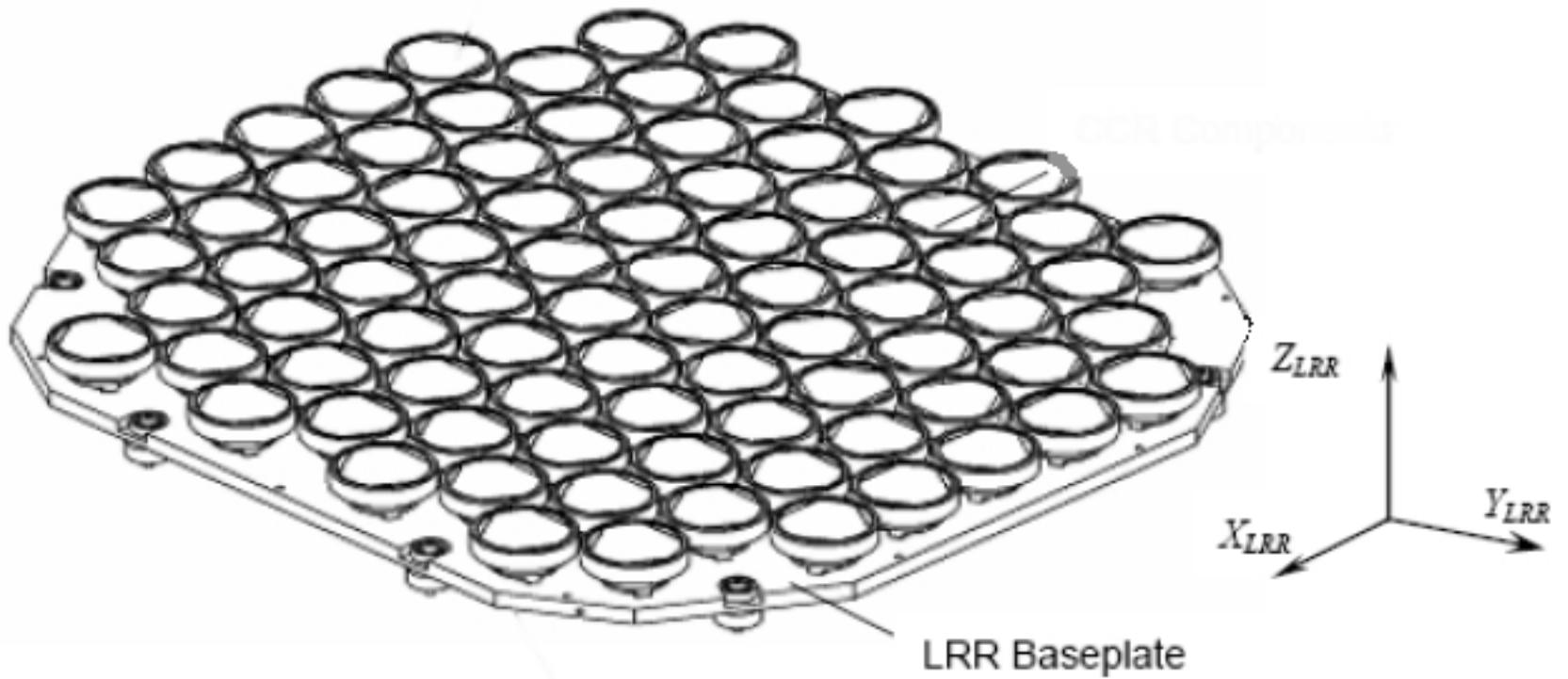
- Semi-major axis 29600 km
- Inclination 56 +/- 2 deg (to account for Sun/Moon)

- **First IOV launch**

- Current official launch date is 15 November
 - ✓ RAAN = 138 deg (Plane A), 258 deg (Plane B), 18 deg (Plane C)
 - *RAAN precession about -10 deg/year*
 - ✓ Current analysis target Plane B

- **Second IOV launch**

- First half of 2011
 - ✓ Current analysis target Plane A



- **84 Corner Cube Reflectors (CCR)**
 - doped fused silica (Suprasil 311) glass tetrahedron
 - **no metallic coating on reflective surfaces**
 - **front surface coated with ITO**
 - aperture face is included in a circle of 43 mm diameter
 - **Minimum aperture 33 mm diameter**
 - height of the tetrahedron is 23.3 mm
 - Iso-static mounting to plate
 - $N = 1.46$, critical angle 16.9°
 - ✓ which covers the entire LRR operating range (Earth radius of 12.44°)
 - ✓ no coating, total reflection is obtained without any loss
 - **Velocity aberration compensation 0.8 arcsec**
 - CCR are randomly oriented
 - LRA Centre of Phase TBD after Qualificator

- **This information will be published in an update to “Specification of Galileo and GIOVE Space Segment Properties Relevant for Satellite Laser Ranging” (ESA-EUING-TN-10206) and in the “Mission Support Request Form”**

