

# ILRS Retroreflector Standards for GNSS Satellites

- Retroreflector payloads for GNSS satellites should have an “effective cross-section” of 100 million sq. meters (5 times that of GPS-35 and -36) – *Minimum Standard*;
- *Added Recommendation: Retroreflector payloads for satellites such as Galileo in higher orbits should scale the “effective cross-section” to compensate for the  $R^{**4}$  reduction in signal strength;*
- The parameters necessary for the precise definition of the vectors between the effective reflection plane, the radiometric antenna phase center and the center of mass of the spacecraft be specified and maintained with an accuracy sufficient to support GGOS objectives;