

S57 icy satellite science activities

- S57 includes a rare great Mimas flyby

- Planned as a SOST “mini-segment” since choosing the XM tour (Athens)
- Reminder: it is difficult dynamically to get close to Mimas - so this is a great opportunity! (plus it’s infrequent that we acquire good views when Mimas is away from the rings & planet)

- Provides unique Mimas views & geometry

- best views (by far!) in the tour of this hemisphere of Mimas
 - the giant Herschel crater
 - ~15,000 km altitude
 - $\alpha < 50^\circ$
- Temperature mapping, surface composition, surface structure
- RADAR scatterometry
 - <50,000 km

- Excellent Calypso opportunity as well

- Closest flyby ever!

