

S55: Icy Satellite Science Overview

- ORS flyby (last good one!)
- C/A is 2009-325T02:09:50 (21 November)
- Altitude is 1606 km
- On thrusters at C/A
- Dark approach
- Low inclination flyby

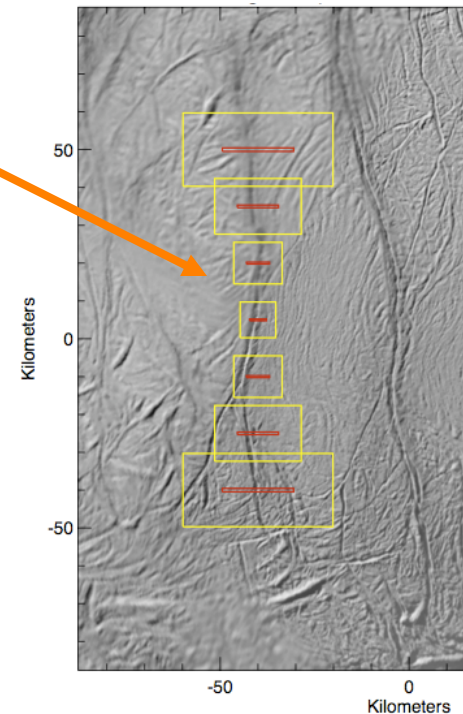
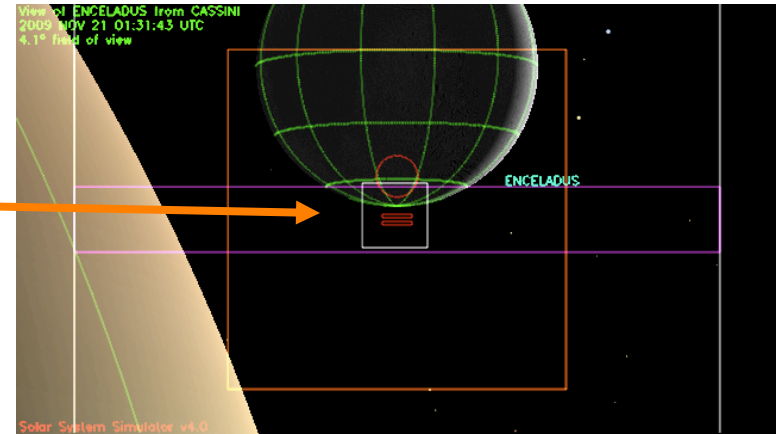
121EN science activities

High phase inbound:

- UVIS Dione longitude coverage
- Plume observation
- RSS Saturn occultation

ORS prime at C/A and outbound

- best ORS opportunity (long observation time on thrusters for “sneak shoot”)
- Outbound ORS of lit anti-Saturn hemisphere at 34° phase: OK for topography and composition
- Good Rhea untargetted ~ 6.5 hrs after C/A: UVIS icy exo plus other ORS mapping
- Observations near C/A: The 2nd axes during these activities have been carefully chosen to optimize science and minimize turn times (i.e., intolerant of RBOT changes)



Rev 121-122 non-targeted opportunities

- 121: Several UVIS Enceladus Icy Atm
- 121: Six ISS Iapetus observations (UVIS R/A)
- ISS_121RH_PHOTOOP001_PRIME
- ISS_122EN_PLMHRMP001_PRIM
- ISS_122IA_HILLSPHE350_PRIME
- Usual number of satellite mutual events and astrometric observations