

GALILEO ICY SATEL LITE TOUR

T. V. Johnson

Galileo's orbital tour at Jupiter will involve multiple close passes by the Galilean satellites, typically 10-100 times closer than Voyager encounters. Icy satellites will form a major focus of these scientific observations, which will include high resolution (<500m) imaging of selected regions, near infrared spectral mapping, studies of the satellites' thermophysics, possible tenuous atmospheres and interactions with the magnetosphere. Precise tracking of the spacecraft will also allow measurements of the satellites' high order gravity fields, leading to new insights into their interior structures. The current status of plans for the Galileo orbital tour and expected data return will be discussed.