



IUGG99 Conference
Abstract Submission Report

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Symposium JSA10
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Inlined Text FUTURE EXPLORATION OF THE JOVIAN SYSTEM

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Exploration of Jupiter's system began in 1610 with Galileo's first telescopic observations. The telescope remained the principle tool for Jupiter studies for more than 350 years before the first spacecraft missions to the giant planet were planned. Pioneers 10 and 11 opened the spacecraft era with flybys in 1973 and 1974 followed by Voyager 1 and 2 in 1979. Since December 1995 the Galileo spacecraft has orbited Jupiter sending back information about the planet, its moons and rings, and the magnetosphere. As we enter the next century, plans are being laid to continue Jupiter system exploration with a further extension of the Galileo mission, possibly allowing joint observations with the Cassini mission as it flies by in December 2000. Beyond that, a Europa orbiter mission is planned for launch in 2003, to study this fascinating moon and search for proof of a liquid ocean under its icy

shell. Objectives, status and plans for these future explorations will be discussed in the context of what we have already learned about the system.

This work was done at Caltech's Jet Propulsion Laboratory under a contract from NASA.

Presentation Style	oral
Special Requirements	Two 35 mm slide projectors and a video (VHS) projector if possible.
Student Paper	Not specified
Grant Application	No

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