

The Keck Institute for Space Studies
presents a short course on:

Planetary Geodesy: Past Discoveries and Future Possibilities

Wednesday, June 2, 2021

8:00 A.M. - 12:00 P.M. PDT

Zoom link available upon request at
www.kiss.caltech.edu

Dr. Anton Ermakov - UC Berkeley

What Geodesy Gave Us in the Earth-Moon System

Prof. Ali Bramson - Purdue University

Geophysical Observations of Ice and Climate on Mars

Prof. Peter James - Baylor University

Active Geological Activity on Venus from
Gravity and Topography

Prof. Francis Nimmo - UC Santa Cruz

Detection and Characterization of Water Oceans on
Icy Moons from Geodetic Measurements

Geodesy – the study of a planet’s shape, orientation, and gravity field – is one of the most powerful methods for investigating planetary objects. At the Earth and the Moon, high-precision geodetic measurements have transformed geodesy from a purely geophysical tool into one that has unlocked new insights into climate change, geology, geochemistry, hydrology, and more. In this short course, we will discuss the prospects for similar giant leaps that could be enabled by modern geodetic observations beyond the Earth-Moon system, including at Mars, Venus, and Ocean Worlds.



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