

December 1, 2014
MSE 2101 topics

- Tidal friction: quick recap
 - remember 4cm/year, 1s/50,000 years?
- Tidal heating as the dominant source of energy
- Io
- Europa:
 - spectroscopy from Earth
 - Voyager
 - Galileo orbiter
- Water on Europa
 - lack of impact craters
 - zig-zaggy terrain
 - magnetic field
 - future prospects: altimetry and radio wave reflections
 - how much water?
- Life on Europa
 - building blocks? liquid? energy?
 - energy for the origin and energy for ongoing life support
- The future of Europa exploration
- Ganymede and Callisto