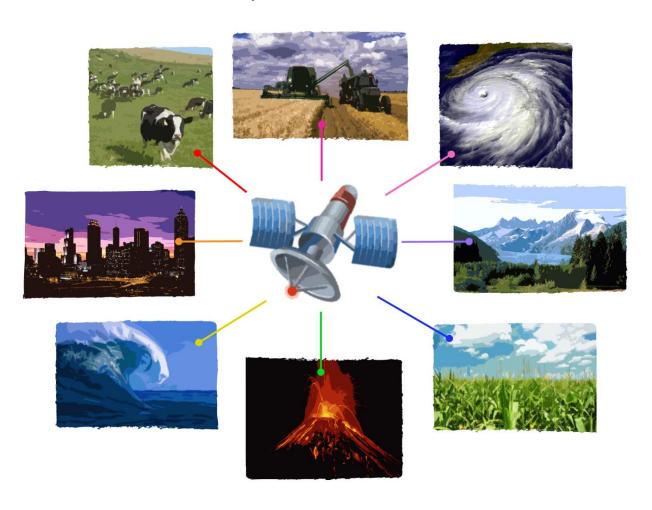
## Spring 2012 - EAS 2550

# **The Next Generation of NASA Missions**

Offered by Prof. Rowena Lohman



# NRC Decadal Survey on Earth Sciences

- How is the global Earth System changing?
  How will it change in the future?
- Atmospheric Composition
- Weather
- Climate Variability & Change
- Water & Energy Cycle
- Carbon Cycle & Ecosystems
- Earth Surface & Interior

### **Need students with:**

New backgrounds

New skill sets

New motivations

#### 17 Recommended New Missions: "Minimal Yet Robust"

3D-Winds



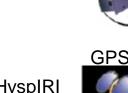








- NOAA & NASA missions launched from 2010-2020:
  - -Seven "small" (\$65M to \$300 million)
  - -Eight "medium" (\$350M to \$600M)
  - -Two "large" (\$700M & \$800M)

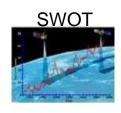






Geo-CAPE

XOVRM











**GRACE-II** 

