

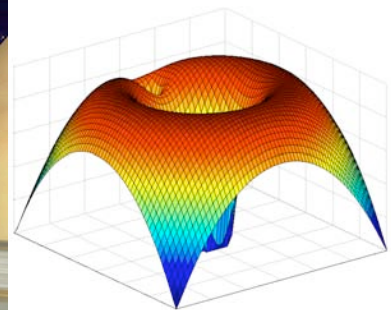
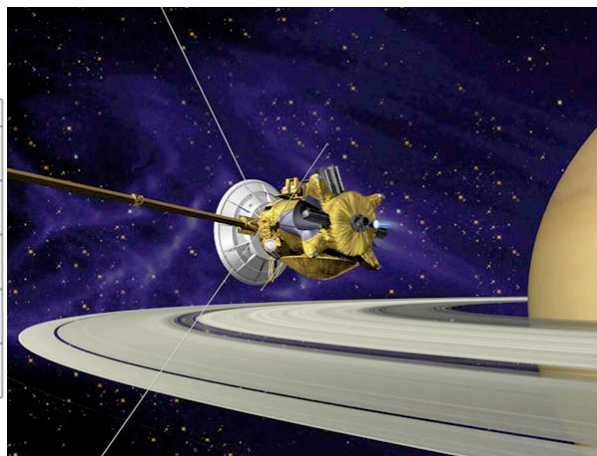
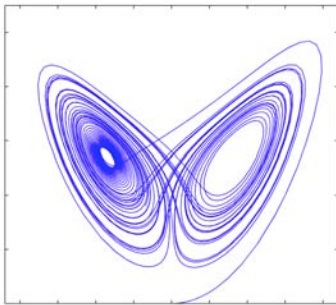
Fall 2009: Earth and Planetary Science

EPS 109  
Computer Simulations in  
Earth and Planetary Sciences

Professor Burkhard Militzer

*Lecture:* TuTh 9-10 am  
325 McCone Hall  
CCN: 19045

*Computer lab:* We 9-11 am  
212 Wheeler Hall  
4 units



General introduction to computer modeling and simulations for all science majors. The simulation techniques are general but the applications are chosen from earth and planetary science including fractals, diffusion processes, heat flow problems, landscape erosion simulations, spacecraft trajectories, chaotic dynamical systems and Monte Carlo simulations.

*Prerequisite Math 1A.* Hands-on computer exercises. Learn to program in MATLAB, no programming experience is required. Students generate sophisticated 3D graphics and movies.

*Check out the movies that the 2008 class made on the website:*

<http://militzer.berkeley.edu/EPS109>