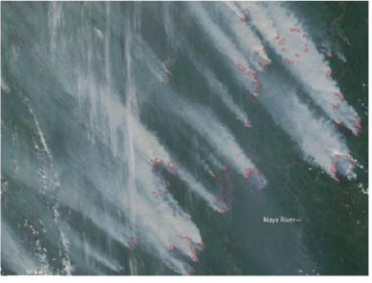


Clouds, Aerosols & Climate – Spring 2013

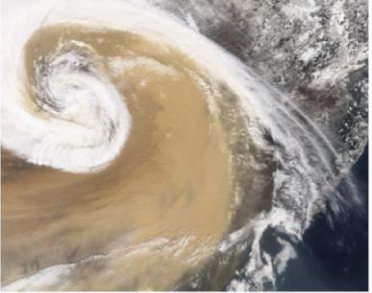
Special Topics - 21798 - EAS 8802

Instructor: Prof. Irina N. Sokolik
Office 3104, phone 404-894-6180
isokolik@eas.gatech.edu




Meeting Time: Mondays 9:05 am - 10:55 am
Meeting Place: L1116

Office hours: by appointment



Course Summary

This course will review the state of the clouds, aerosols and climate sciences, focusing on the major long-standing and emerging problems in the field. Discussion topics will cover fundamentals of interactions among aerosol, clouds and climate; current state and challenges in quantifying the impacts of clouds and aerosols on the Earth's energy balance, hydrological cycle, and major biogeochemical cycles; and linkages within the Earth systems (coupling and feedbacks). The course examines the regional and global impacts of wildfires, dust storms, volcanic eruptions, biogenic aerosol, Arctic haze, and urban&industrial pollutants.



The course evaluation will be based on (1) participation in class discussion, and (2) class paper.