



Atmospheric & Earth System Research

NCAR Research Topics



**Climate** Earth's past climate, greenhouse effect and global warming, Earth's future, El Niño & La Niña, drought and wildfires.



**Meteorology/Weather** Short-term forecasts, weather forecasting and predictability, weather's effect on climate, training meteorologists, severe storms, physical processes.



**Societal Impacts** Effects of weather & climate on society, capacity building, national security.



**Pollution & Air Chemistry** Air pollution, chemistry of our atmosphere, tracking plumes, ozone.



**The Whole Earth System** Oceans effects on climate and weather, the effects of land use on climate and weather, cryosphere/ice, the water cycle.



**Sun & Space Weather** Solar furnace, suns effect on weather and climate, the solar observatory, space weather.