

## **NASA LANGLEY RESEARCH CENTER**

<http://www.nasa.gov/centers/langley/home/index.html>

### **Applications: ASAP, IDEA, POWER, and more**

Building a bridge between NASA Earth science research and issues of national concern is the goal of the Science Directorate's Applications Program.

### **Atmospheric Chemistry**

Using advanced techniques to study the chemistry of the atmosphere, and developing cutting-edge models to simulate atmospheric composition.

### **Clouds and Aerosols**

Two of the most complicated components of the atmosphere, clouds and aerosols are effected by and can even affect our weather and our climate.

### **Planetary Exploration: ARES, a proposed Mars Scout Mission**

Science missions dedicated to exploring our solar system and beyond.

### **Advanced Instrument Design**

A number of significant instruments for studying the atmosphere have been developed by Langley engineers and scientists.

### **Radiation and Weather**

Studying radiation, or the heat that flows to the Earth from the sun and from Earth into space, and weather for a better understanding of climate change.

### **Studying the Upper Atmosphere**

Experiments and research campaigns focused on the upper atmosphere include, HALOE, SABER, SAGE II and SAGE III.

The **Langley Wind Tunnel Enterprise** has more than 20 facilities with very diverse capabilities to help you solve your aerodynamic or fluid problems.

Facility types include (See <http://windtunnels.larc.nasa.gov/facilities.htm> for details):

- Acoustics
- Aerodynamics
- Aeroelasticity
- Aerothermodynamics
- Flight Dynamics
- Hypersonic Airbreathing Propulsion
- Nozzle Performance