

Participants:

Colorado Middle Schools

Colorado High Schools

Colorado Space Grant Colleges

Lockheed-Martin Explorers

International Association of Astronomical
Studies (IAAS)

National Oceanic and Atmospheric
Administration (NOAA) Forecast Systems
Laboratory

U.S. Air Force Academy



**“Promoting Science and
Education through
Amateur Radio and High
Altitude Balloons”**

**Visit our web site at
www.eoss.org**

EOSS is a non-profit organization



EOSS members prepare for a balloon launch

What does EOSS do?

EOSS members combine amateur radio and helium-filled balloons to advance scientific study of the atmosphere. Working with educators, members assist in offering valuable hands-on opportunities to students.

The EOSS conducts several balloon projects each year. Members send radio-equipped loads known as "payloads" high into the edge of space or stratosphere.

Payloads transmit radio signals enabling EOSS members to track and recover the balloon.



Student prepares experiment

What is EOSS?

Edge of Space Sciences (EOSS) is a Denver, Colorado based non-profit organization that promotes science and education by exploring frontiers in amateur radio and high-altitude balloons.

Since its first flight in 1990, EOSS has increased its volunteer membership numbers and improved its tracking and recovery skills by participating in more than 50 flights.

Tracking and recovery team vehicles



Balloons can fly as far up as 100,000 feet above the ground (20 miles) where the sky is black and the highest clouds are far below.

Some tests conducted by scientists and students include:

- prototype spacecraft like the JPL Mars Micro-balloon Project
- NOAA's Experimental Weather Observing System
- Temperature and pressure telemetry
- Gas sampling
- Solar telescopes