**SNS • SORCE News Source**

**Monthly Newsletter**

**April 2003**

**Missions Update**

It has been more than three months since SORCE was launched. SORCE continues to take high-quality solar and space weather data that are used to understand the Earth's radiation environment. This information is important for improving space weather models and for understanding the interaction between the Sun, Earth, and space. The SORCE mission is an important component of the larger Solar Terrestrial Physics Program (STP), which aims to improve our understanding of the Sun-Earth system.

**Instrument Status**

The trajectory correction on orbit of the SORCE spacecraft has been completed. The SORCE observatory, which consists of several instruments that are sensitive to different wavelengths of light, is now in the correct orbit and is ready to begin taking data. These instruments are designed to study the Sun's atmosphere, the Earth's radiation environment, and the interaction between the two. The data from these instruments will be used to improve our understanding of the Sun and its effects on Earth.

**A Closer Look at the XPS Instrument**

The XPS (X-ray and Proton Spectrometer) instrument is one of the key components of the SORCE observatory. It is designed to measure the energy and intensity of X-rays and protons that are produced by solar flares. These measurements are important for understanding the Sun's influence on Earth's radiation environment. The XPS instrument is sensitive to X-rays in the energy range from 1 keV to 10 MeV, and this information is crucial for improving space weather models.

**SOSRCE**

SOSRCE is an acronym for the Solar Orbiter, which is a spacecraft designed to study the Sun's atmosphere. SOSRCE is scheduled to launch in 2020 and will provide detailed images of the Sun's atmosphere, including the solar corona and solar flares. The SOSRCE mission is expected to take place over several years, and the data from this mission will be used to improve our understanding of the Sun and its effects on Earth.

**Time series of SORCE observations during the solar cycle 23.** The figures show the time series of SORCE observations during the solar cycle 23. The data are presented in a graphical format that is easy to interpret. The figures show that the SORCE observations are consistent with predictions made by solar models, and this information is crucial for improving space weather models.

**Upcoming Meetings**

**SORCE Science Plan in progress: papers or stand in the following SORCE meetings:**

- **SORCE Instrument and Data Validation Workshop:** April 30-May 1, Colorado, USA
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- **AAPL, Las Vegas, USA:**
- **ASTRO-2021, Denver, Colorado, USA:**
- **EGME 2021, Tokyo, Japan:**
- **APL, Alexandria, VA:**
- **AAPL, Las Vegas, USA:**
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For more information, please visit the SORCE website at [http://sorce.gsfc.nasa.gov](http://sorce.gsfc.nasa.gov).