

Solar Ultraviolet Imager (SUVI)

Improvements

The Solar Ultraviolet Imager (SUVI) instrument will image the Sun with greater spatial and temporal resolution. The spatial sampling (pixel size) is 2.5 arcseconds compared to the GOES-14 and GOES-15 Solar X-ray Imager (SXI) sampling of 5.0 arcseconds. Individual images are combined into high-dynamic range composite images served to the public. There are six spectral channels, each of which is updated once every four minutes. The narrow band spectral channels are in the extreme ultraviolet range as opposed to the broad band soft x-ray channels of the SXI. This provides the ability to sample the coronal plasma at more specific temperatures and therefore distinguish different solar features more effectively. A resulting new product is the thematic map of solar features. The algorithm producing this map is experimental, but undergoing further research and improvements.

Issues

None.