LITES Passing Over Millstone Hill ISR

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LITES

The Limb-Imaging Thermospheric Extreme-ultraviolet Spectrograph (LITES) launched on February 19, 2017 and was mounted on the International Space Station (ISS). "First light" was collected on March 6 and early orbit checkout was completed on April 4. LITES will operate continuously in day and night conditions for the duration of the STP-H5 mission lifetime, which is a minimum of two years. LITES is sensitive to UV emissions from approximately 600-1400 Å and images the limb from 100-400 km continuously during the night and day. Calibration of data is underway and with new data coming in every day, collaboration is very welcome!

Flight Data

The data presented in this poster have not been calibrated or background-subtracted, but simply scaled to fit model predictions. This gives an idea of LITES' sensitivity and spectral range, although many more features than the three presented here are available.

Limb-Viewing Geometry

LITES looks at the limb of the thermosphere. It has a 6° field of view in the vertical direction and a 10° horizontal field of view.

Acknowledgements

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