

## ISS-IMAP/EUVIで観測されたHeイオン共鳴散乱光の経度構造

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## Longitudinal structures of He II radiation at 30.4 nm in the topside ionosphere observed by ISS-IMAP/EUVI

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Horizontal distribution structure of He<sup>+</sup> in the Earth's topside ionosphere was studied with He II image at 30.4 nm obtained by the Extreme Ultra Violet Imager (EUVI) of the ISS-IMAP (Ionosphere, Mesosphere, upper Atmosphere and Plasmasphere mapping) mission. EUVI has observed resonant scattering from He<sup>+</sup> (30.4 nm) and O<sup>+</sup> (83.4 nm) with backward limb FOV from the the International Space Station (ISS) since October 2012. A longitudinal enhancement of He II radiation was observed in the western pacific region and it seems to be due to the He<sup>+</sup> distribution in the upper ionosphere. The available cause of this longitudinal structure will be also discussed in this presentation.