

Current and Future EUMETSAT Hyperspectral Infrared Missions: IASI, IASI-NG and IRS

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ABSTRACT

This paper will summarize EUMETSAT's current status and plans of the future programmes, including the current and future mandatory programmes: EUMETSAT Polar System (EPS), EPS-Second Generation (EPS-SG) and Meteosat Third Generation (MTG).

The advanced technologies and challenges associated with the new hyperspectral infrared sounders are explained and what these new missions will bring to the scientific community. The first generation of hyperspectral sounders for 17 years of operation shows very good stability and accuracy on the three IASIs (Infrared Atmospheric Sounder Interferometer). You will be explained how this is achieved and why it is an asset for many applications. The huge amount of data to come is also a challenge as explained in the document and how the user community should be prepared for these missions. It also mentions third-party hyperspectral sounders, as EUMETSAT relays satellite data from a large list of partner organizations.