

Very Fast Delivery products of OMI

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The Ozone Monitoring Instrument (OMI) operates onboard NASA's EOS-AURA satellite, which was launched in July 2004. Aura's capabilities include Direct Broadcast (DB), i.e. the ability to broadcast data at the same time as they are being measured and stored in the spacecraft's memory for later transmission to Earth. FMI's Satellite Data Centre at Sodankylä in Finnish Lapland is exploiting this capability to receive OMI data while Aura is in sight of the receiver, which enables nearly immediate production of OMI data products for a region that includes a large part of Europe, stretching from the North Pole to the Italian Alps.

The current OMI VFD (Very Fast Delivery) products include maps of surface UV-index, erythemal daily dose, ozone column and cloud coverage. These products are available through WWW-pages in fifteen minutes after the overpass of the satellite. From two to four overpasses are processed daily. The processing system will be described and the results from validation studies will be shown. Furthermore, the usability of the DB will be discussed.