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GRAS Radio Occultation Measurements onboard Metop

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The GRAS radio occultation instrument onboard of Metop-A has been profiling the atmosphere since switch-on in October 2006. More than 600 occultations are detected per day and processed to bending angles at EUMETSAT's central site. The data is provided within Near-Real-Time (less than 2 hours 15 minutes) to Numerical Weather Prediction centers worldwide. Further processing of bending angles to refractivity is performed at the GRAS-SAF with a data latency less than 3 hours from observation.

Within this presentation, recent validation results from GRAS bending angle observations against co-located COSMIC bending angles as well as co-located ECMWF forecast fields are shown. Additionally, several uncertainty sources are discussed, namely the impact of processing on the obtained observation and the impact of the GPS and Metop orbits on data accuracy.