

International Radio Occultation Working Group (IROWG)

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Abstract

The Radio Occultation Processing Package

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This poster describes the Radio Occultation Processing Package, ROPP, a product of the EUMETSAT Radio Occultation Meteorology Satellite Application Facility (ROM SAF). ROPP consists of source code, build and test scripts, data files and documentation, which are primarily designed to help users process, quality-control and assimilate RO data into their NWP models. Facilities are provided for the full chain of RO data processing, from phase delays to bending angles, to refractivities and dry temperatures, and finally to 1D-Var retrieved temperature and humidity profiles. Diagnostics of tropopause heights and boundary layer heights are now available, as is a wave optics propagation tool.

In this poster the structure of ROPP and its key functionalities are briefly described. Some planned future developments are outlined.