

HIRDLS Meteorological Product Needs



HIRDLS currently uses GMAO GEOS-4 temperatures for first guess and LOS correction in production processing of HIRDLS data.

- Must receive several days of scientifically valid GEOS-5 data for the period of January 21 through present day with **at least 6 weeks overlap** before GEOS-4 is turned off.
- What scientific validation of GMAO GEOS-5 will be done prior to our use of the the data? Will holes in the GEOS-4 H₂O distributions go away in GEOS-5?
- How different are (T, O₃, H₂O) for the operational GEOS-5 (present day forward) and the reprocessed GEOS-5 (starting at launch) at the point of overlap.

In addition to using GMAO GEOS-5 data for temperature LOS corrections, the HIRDLS team is also considering using GEOS-5 data for LOS correction for Ozone and Water Vapor.

- GEOS-5 will also be used for driving a CTM for science studies with HIRDLS data.