

HYDRA2 v4.0.0, Supported Data, 2016-Nov

File storage formats supported: NetCDF-3/4, HDF-4/5. Access is via the Java implementation of Unidata's Common Data Model: Java-NetCDF (included with distribution). HYDRA2 recognizes satellite orbiting platform and sensor using the data provider's filename conventions.

SuomiNPP

VIIRS, CrIS and ATMS SDRs:

CSPP, NOAA OPS and NOAA CLASS single band files. NASA SIPS multi-band files (currently VIIRS only). Geolocation is stored in separate files, and must be in the same directory as the data files. CLASS data + geolocation files are supported for only CrIS and ATMS. Examples of data and geolocation filenames in this document are in italics with the geolocation file generally following the data product:

SVM15_npp_d20120830_t0422422_e0424064_b04353_c20120830105157245882_noaa_ops.h5

SVI05_npp_d20120830_t0424076_e0425318_b04353_c20120830105204352470_noaa_ops.h5

GITCO_npp_d20120830_t0424076_e0425318_b04353_c20120830104549425792_noaa_ops.h5

GMTCO_npp_d20120830_t0424076_e0425318_b04353_c20120830104444518122_noaa_ops.h5

SVDNB_npp_d20150130_t0558077_e0559319_b16881_c20150130122608690913_noaa_ops.h5

GDNBO_npp_d20150130_t0558077_e0559319_b16881_c20150130122852325148_noaa_ops.h5

SATMS_npp_d20150708_t1611130_e1619126_b19143_c20150708221912587366_noaa_ops.h5

GATMO_npp_d20150708_t1611130_e1619126_b19143_c20150708221912587079_noaa_ops.h5

SCRIS_npp_d20120830_t0416019_e0423597_b04352_c20120830102358125719_noaa_ops.h5

GCRSO_npp_d20120830_t0416019_e0423597_b04352_c20120830102358125186_noaa_ops.h5

GATMO-SATMS_npp_d20150708_t1619130_e1627126_b19143_c20150708222712646869_noaa_ops.h5

UW-SSEC-CIMSS dual-regression temperature, water vapor and ozone atmospheric retrievals generated by CSPP for CrIS, IASI and AIRS:

CrIS_d20120830_t041601.atm_prof_rtv.h5
IASI_d20120830_t041601.atm_prof_rtv.h5
AIRS_d20120830_t041601.atm_prof_rtv.h5

CSPP generated CLAVRx and ACSPO SST, SEADAS, GEOCAT OT (Overshooting Tops), CI (Convective Initiation) derived from from VIIRS:

20161003035000-STAR-L2P_GHRSSST-SSTskin-VIIRS_NPP-ACSPO_V2.40-v02.0-fv01.0.nc
clavrx_npp_d20161003_t0350058_e0351300_b25563.level2.hdf
SEADAS_npp_d20160129_t1816210_e1829086.hdf
geocatL2_OT.Aqua.2015240.180500.hdf
geocatL2_CI.Aqua.2015240.180500.hdf

NASA Terra and Aqua

MODIS: L1B Calibrated Radiances (1KM, HKM, QKM). Level2: Aerosol, Cloud Properties, Cloud Mask, Fire Mask, SST. Data center archive products (Terra products begin with MOD, Aqua MYD):

MOD021KM.A2015240.1500.006.2015241015635.hdf (L1B)
MOD02HKM.A2015240.1500.006.2015241015635.hdf
MOD02QKM.A2015240.1500.006.2015241015635.hdf
MYD04.16037.1753.hdf (Aerosol)
MYD04.16037.1753_3k.hdf
MYD06_L2.A2015240.1805.006.2015244012408.hdf (Cloud Properties)
MYD14.A2016037.1750.006.2016039060137.hdf (Fire Mask Must be accompanied with the corresponding MOD03 geolocation file)
MOD28.hdf (SST)*
SEADAS_modis_d20160129_t184500_t185000.hdf

CSPP file names for the products above start with 'a1' (Aqua) and 't1' (Terra) and use the same product identifiers except lowercase.

AIRS Calibrated Radiances (Aqua only):

AIRS.2005.11.19.207.L1B.AIRS_Rad.v3.0.8.102.D05323210615.hdf

NOAA and MetOp

AAPP generated (run by CSPP) Level 1C for IASI, AMSU, MHS, HIRS:

iasil1c_M02_20150920_1650_46285.l1c.h5

amsual1c_M02_20150920_1650_46285.l1c.h5

mhsl1c_M02_20150920_1650_46285.l1c.h5

hirsl1c_M02_20150920_1650_46285.l1c.h5

Eumetsat data archive EO portal (NetCDF only): AVHRR, IASI, AMSU, MHS, HIRS

**AVHR_C*.nc, *IASI_C*.nc, *AMSU_C*.nc, *.MHS_C*.nc, *.HIRS_C*.nc*

Note: for NOAA satellites, AVHRR is only available in reduced resolution GAC from this archive system.

Himawari-8

AHI generated by CSPP-GEO running GEOCAT. 2km resolution, full-disk and Japan sectors. L1 and L2:

geocatL1.HIMAWARI-8.2016277.035000.FLDK.R20.nc

geocatL2.HIMAWARI-8.2016277.035000.FLDK.R20.nc

Full resolution, full-disk, calibrated, navigated output from SSEC
HSD_to_NetCDF libraries.

FengYun-3 (FY-3)

MERSI L1B