

DBPS PRODUCT DICTIONARY

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This document describes the product files, types, and formats produced by the Direct Broadcast Processing System (DBPS).

1. EOS AQUA AND TERRA

1.1 EOS IMAGE FILES

Directory eos/images contains reprojected MODIS Level 1B and Level 2 product images in PNG, JPEG, and GeoTIFF format. Example file names for Terra are as follows:

Images created from MODIS Level 2 products by IMAPP:

Terra_20150630_0345_AerosolOpticalDepth10km.png
Terra_20150630_0345_AerosolOpticalDepth3km.png
Terra_20150630_0345_Band1.png
Terra_20150630_0345_Band26.png
Terra_20150630_0345_Band27.png
Terra_20150630_0345_Band31.png
Terra_20150630_0345_Band7.png
Terra_20150630_0345_CloudMask.png
Terra_20150630_0345_CloudPhase.png
Terra_20150630_0345_CloudTopPressure.png
Terra_20150630_0345_SeaSurfaceTemperature.png
Terra_20150630_0345_TotalPrecipitableWater.png

Images created from MODIS Level 1B and Level 2 products by HDFLook:

t1.15181.0345.band02.jpg
t1.15181.0345.band02.tif
t1.15181.0345.band27.jpg
t1.15181.0345.band27.tif
t1.15181.0345.band31.jpg
t1.15181.0345.band31.tif
t1.15181.0345.chla.jpg
t1.15181.0345.chla.tif
t1.15181.0345.modlst.jpg
t1.15181.0345.modlst.tif
t1.15181.0345.ndvi.jpg
t1.15181.0345.ndvi.tif
t1.15181.0345.sst.jpg
t1.15181.0345.sst.tif
t1.15181.0345.truecolor.jpg
t1.15181.0345.truecolor.tif

Images created from MODIS Level 1B products by POLAR2GRID:

terra_modis_bt20_20150630_034505_wgs84_fit.thumb.jpg
terra_modis_bt20_20150630_034505_wgs84_fit.tif

terra_modis_bt21_20150630_034505_wgs84_fit.thumb.jpg
terra_modis_bt21_20150630_034505_wgs84_fit.tif
terra_modis_bt22_20150630_034505_wgs84_fit.thumb.jpg
terra_modis_bt22_20150630_034505_wgs84_fit.tif
terra_modis_bt23_20150630_034505_wgs84_fit.thumb.jpg
terra_modis_bt23_20150630_034505_wgs84_fit.tif
terra_modis_bt24_20150630_034505_wgs84_fit.thumb.jpg
terra_modis_bt24_20150630_034505_wgs84_fit.tif
terra_modis_bt25_20150630_034505_wgs84_fit.thumb.jpg
terra_modis_bt25_20150630_034505_wgs84_fit.tif
terra_modis_bt27_20150630_034505_wgs84_fit.thumb.jpg
terra_modis_bt27_20150630_034505_wgs84_fit.tif
terra_modis_bt28_20150630_034505_wgs84_fit.thumb.jpg
terra_modis_bt28_20150630_034505_wgs84_fit.tif
terra_modis_bt29_20150630_034505_wgs84_fit.thumb.jpg
terra_modis_bt29_20150630_034505_wgs84_fit.tif
terra_modis_bt30_20150630_034505_wgs84_fit.thumb.jpg
terra_modis_bt30_20150630_034505_wgs84_fit.tif
terra_modis_bt31_20150630_034505_wgs84_fit.thumb.jpg
terra_modis_bt31_20150630_034505_wgs84_fit.tif
terra_modis_bt32_20150630_034505_wgs84_fit.thumb.jpg
terra_modis_bt32_20150630_034505_wgs84_fit.tif
terra_modis_bt33_20150630_034505_wgs84_fit.thumb.jpg
terra_modis_bt33_20150630_034505_wgs84_fit.tif
terra_modis_bt34_20150630_034505_wgs84_fit.thumb.jpg
terra_modis_bt34_20150630_034505_wgs84_fit.tif
terra_modis_bt35_20150630_034505_wgs84_fit.thumb.jpg
terra_modis_bt35_20150630_034505_wgs84_fit.tif
terra_modis_bt36_20150630_034505_wgs84_fit.thumb.jpg
terra_modis_bt36_20150630_034505_wgs84_fit.tif
terra_modis_vis01_20150630_034505_wgs84_fit.thumb.jpg
terra_modis_vis01_20150630_034505_wgs84_fit.tif
terra_modis_vis03_20150630_034505_wgs84_fit.thumb.jpg
terra_modis_vis03_20150630_034505_wgs84_fit.tif
terra_modis_vis04_20150630_034505_wgs84_fit.thumb.jpg
terra_modis_vis04_20150630_034505_wgs84_fit.tif
terra_modis_vis05_20150630_034505_wgs84_fit.thumb.jpg
terra_modis_vis05_20150630_034505_wgs84_fit.tif
terra_modis_vis06_20150630_034505_wgs84_fit.thumb.jpg
terra_modis_vis06_20150630_034505_wgs84_fit.tif
terra_modis_vis07_20150630_034505_wgs84_fit.thumb.jpg
terra_modis_vis07_20150630_034505_wgs84_fit.tif
terra_modis_vis26_20150630_034505_wgs84_fit.thumb.jpg
terra_modis_vis26_20150630_034505_wgs84_fit.tif

1.2 EOS LEVEL 1 DATA FILES

Directory eos/level1 contains Terra MODIS Level 1B (calibrated and geolocated radiances and reflectances) data in HDF4 format. Example file names for Terra are as follows:

t1.15181.0345.1000m.hdf	(MODIS L1B 1KM)
t1.15181.0345.500m.hdf	(MODIS L1B HKM)
t1.15181.0345.250m.hdf	(MODIS L1B QKM)
t1.15181.0345.geo.hdf	(MODIS L1B GEO)

1.4 EOS LEVEL 2 DATA FILES

Directory eos/level2 contains Terra MODIS Level 2 data (geophysical products) in HDF4 format. Example file names for Terra are as follows:

t1.15181.0345.acspo.hdf	(ACSP0 sea surface temperature)
t1.15181.0345.clavrx.hdf	(CLAVRX clouds)
t1.15181.0345.mask_byte1.hdf	(MOD35 cloud mask; first byte)
t1.15181.0345.mod04.hdf	(MOD04 aerosol)
t1.15181.0345.mod04_3k.hdf	(MOD04 high resolution aerosol)
t1.15181.0345.mod06ct.hdf	(MOD06CT cloud top properties)
t1.15181.0345.mod07.hdf	(MOD07 temperature/moisture profiles)
t1.15181.0345.mod14.hdf	(MOD14 wild fires)
t1.15181.0345.mod28.hdf	(MOD28 sea surface temperature)
t1.15181.0345.mod35.hdf	(MOD35 cloud mask)
t1.15181.0345.modlst.hdf	(DRL land surface temperature)
t1.15181.0345.ndvi.1000m.hdf	(DRL vegetation index 1000 meter)
t1.15181.0345.ndvi.250m.hdf	(DRL vegetation index 250 meter)
t1.15181.0345.ndvi.500m.hdf	(DRL vegetation index 500 meter)
t1.15181.0345.seadas.hdf	(SeaDAS ocean color)
t1.15181.0345.wvnir.hdf	(IMAPP water vapor)

2. SUOMI NPP

2.1 SUOMI NPP IMAGE FILES

Directory `jps/images` contains reprojected VIIRS SDR (Level 1B) and EDR (Level 2) product images in GeoTIFF, JPEG, and PNG format. Example file names are as follows:

Images created from VIIRS cloud products by CLAVR-x:

CLAVRx_cld_emiss_acha_20150630_061417-062538.png
CLAVRx_cld_height_acha_20150630_061417-062538.png
CLAVRx_cld_opd_dcomp_20150630_061417-062538.png
CLAVRx_cld_press_acha_20150630_061417-062538.png
CLAVRx_cld_reff_dcomp_20150630_061417-062538.png
CLAVRx_cld_temp_acha_20150630_061417-062538.png
CLAVRx_cloud_mask_20150630_061417-062538.png
CLAVRx_cloud_phase_20150630_061417-062538.png
CLAVRx_cloud_probability_20150630_061417-062538.png
CLAVRx_cloud_type_20150630_061417-062538.png

Images created from VIIRS ocean color products by SeaDAS:

SEADAS_npp_d20150630_t0614173_e0625393.ch1a.tif

Images created from VIIRS cloud, land, and ocean products by CSPP EDR:

VIIRS_Aerosol_Optical_Thickness_npp_d20150630_t0614173_e0625393.png
VIIRS_Cloud_Mask_npp_d20150630_t0614173_e0625393.png
VIIRS_Enhanced_Vegetation_Index_npp_d20150630_t0614173_e0625393.png
VIIRS_Land_Surface_Temperature_npp_d20150630_t0614173_e0625393.png
VIIRS_Normalized_Difference_Vegetation_Index_npp_d20150630_t0614173_e0625393.png
VIIRS_Sea_Surface_Temperature_npp_d20150630_t0614173_e0625393.png

Images created from VIIRS SDR data by POLAR2GRID:

npp_viirs_adaptive_dnb_20150630_061417_wgs84_fit.thumb.jpg
npp_viirs_adaptive_dnb_20150630_061417_wgs84_fit.tif
npp_viirs_dynamic_dnb_20150630_061417_wgs84_fit.thumb.jpg
npp_viirs_dynamic_dnb_20150630_061417_wgs84_fit.tif
npp_viirs_histogram_dnb_20150630_061417_wgs84_fit.thumb.jpg
npp_viirs_histogram_dnb_20150630_061417_wgs84_fit.tif
npp_viirs_i01_20150630_061417_wgs84_fit.thumb.jpg
npp_viirs_i01_20150630_061417_wgs84_fit.tif
npp_viirs_i02_20150630_061417_wgs84_fit.thumb.jpg
npp_viirs_i02_20150630_061417_wgs84_fit.tif
npp_viirs_i03_20150630_061417_wgs84_fit.thumb.jpg
npp_viirs_i03_20150630_061417_wgs84_fit.tif
npp_viirs_i04_20150630_061417_wgs84_fit.thumb.jpg
npp_viirs_i04_20150630_061417_wgs84_fit.tif
npp_viirs_i05_20150630_061417_wgs84_fit.thumb.jpg
npp_viirs_i05_20150630_061417_wgs84_fit.tif
npp_viirs_m01_20150630_061417_wgs84_fit.thumb.jpg
npp_viirs_m01_20150630_061417_wgs84_fit.tif
npp_viirs_m02_20150630_061417_wgs84_fit.thumb.jpg
npp_viirs_m02_20150630_061417_wgs84_fit.tif
npp_viirs_m03_20150630_061417_wgs84_fit.thumb.jpg
npp_viirs_m03_20150630_061417_wgs84_fit.tif
npp_viirs_m04_20150630_061417_wgs84_fit.thumb.jpg

npp_viirs_m04_20150630_061417_wgs84_fit.tif
npp_viirs_m05_20150630_061417_wgs84_fit.thumb.jpg
npp_viirs_m05_20150630_061417_wgs84_fit.tif
npp_viirs_m06_20150630_061417_wgs84_fit.thumb.jpg
npp_viirs_m06_20150630_061417_wgs84_fit.tif
npp_viirs_m07_20150630_061417_wgs84_fit.thumb.jpg
npp_viirs_m07_20150630_061417_wgs84_fit.tif
npp_viirs_m08_20150630_061417_wgs84_fit.thumb.jpg
npp_viirs_m08_20150630_061417_wgs84_fit.tif
npp_viirs_m09_20150630_061417_wgs84_fit.thumb.jpg
npp_viirs_m09_20150630_061417_wgs84_fit.tif
npp_viirs_m10_20150630_061417_wgs84_fit.thumb.jpg
npp_viirs_m10_20150630_061417_wgs84_fit.tif
npp_viirs_m11_20150630_061417_wgs84_fit.thumb.jpg
npp_viirs_m11_20150630_061417_wgs84_fit.tif
npp_viirs_m12_20150630_061417_wgs84_fit.thumb.jpg
npp_viirs_m12_20150630_061417_wgs84_fit.tif
npp_viirs_m13_20150630_061417_wgs84_fit.thumb.jpg
npp_viirs_m13_20150630_061417_wgs84_fit.tif
npp_viirs_m14_20150630_061417_wgs84_fit.thumb.jpg
npp_viirs_m14_20150630_061417_wgs84_fit.tif
npp_viirs_m15_20150630_061417_wgs84_fit.thumb.jpg
npp_viirs_m15_20150630_061417_wgs84_fit.tif
npp_viirs_m16_20150630_061417_wgs84_fit.thumb.jpg
npp_viirs_m16_20150630_061417_wgs84_fit.tif

2.2 SUOMI NPP SDR (LEVEL 1) DATA FILES

Directory `jpss/level1` contains ATMS, CrIS, and VIIRS SDR (Level 1B) files in HDF5 format. Example file names are as follows:

ATMS geolocation, sensor data record, and temperature data record files (all bands):

GATMO_npp_d20150630_t0612553_e0627509_b19023_c20150724180115219786_cspp_dev.h5
SATMS_npp_d20150630_t0612553_e0627509_b19023_c20150724180050054698_cspp_dev.h5
TATMS_npp_d20150630_t0612553_e0627509_b19023_c20150724180100897390_cspp_dev.h5

CrIS geolocation and sensor data record files (all bands):

GCRS0_npp_d20150630_t0614339_e0626157_b19023_c20150724180807633475_cspp_dev.h5
SCRIS_npp_d20150630_t0614339_e0626157_b19023_c20150724180744731060_cspp_dev.h5

VIIRS day/night band geolocation and sensor data record files (1 band):

GDNB0_npp_d20150630_t0614173_e0625393_b19023_c20150724185312736929_cspp_dev.h5
SVDNB_npp_d20150630_t0614173_e0625393_b19023_c20150724184535546990_cspp_dev.h5

VIIRS I-band geolocation and sensor data record files (bands 1-5):

GITCO_npp_d20150630_t0614173_e0625393_b19023_c20150724184914111645_cspp_dev.h5
SVI01_npp_d20150630_t0614173_e0625393_b19023_c20150724184240865368_cspp_dev.h5
SVI02_npp_d20150630_t0614173_e0625393_b19023_c20150724184304633621_cspp_dev.h5
SVI03_npp_d20150630_t0614173_e0625393_b19023_c20150724184328434679_cspp_dev.h5
SVI04_npp_d20150630_t0614173_e0625393_b19023_c20150724184352510106_cspp_dev.h5
SVI05_npp_d20150630_t0614173_e0625393_b19023_c20150724184416905042_cspp_dev.h5

VIIRS M-band geolocation and sensor data record files (bands 1-16):

GMTCO_npp_d20150630_t0614173_e0625393_b19023_c20150724184800707411_cspp_dev.h5
SVM01_npp_d20150630_t0614173_e0625393_b19023_c20150724183841823185_cspp_dev.h5

SVM02_npp_d20150630_t0614173_e0625393_b19023_c20150724183847908653_cspp_dev.h5
SVM03_npp_d20150630_t0614173_e0625393_b19023_c20150724183854020628_cspp_dev.h5
SVM04_npp_d20150630_t0614173_e0625393_b19023_c20150724183903568902_cspp_dev.h5
SVM05_npp_d20150630_t0614173_e0625393_b19023_c20150724183913140872_cspp_dev.h5
SVM06_npp_d20150630_t0614173_e0625393_b19023_c20150724183922690401_cspp_dev.h5
SVM07_npp_d20150630_t0614173_e0625393_b19023_c20150724183928540815_cspp_dev.h5
SVM08_npp_d20150630_t0614173_e0625393_b19023_c20150724183938053388_cspp_dev.h5
SVM09_npp_d20150630_t0614173_e0625393_b19023_c20150724183943904026_cspp_dev.h5
SVM10_npp_d20150630_t0614173_e0625393_b19023_c20150724183948063445_cspp_dev.h5
SVM11_npp_d20150630_t0614173_e0625393_b19023_c20150724183954077595_cspp_dev.h5
SVM12_npp_d20150630_t0614173_e0625393_b19023_c20150724183959941452_cspp_dev.h5
SVM13_npp_d20150630_t0614173_e0625393_b19023_c20150724184006450003_cspp_dev.h5
SVM14_npp_d20150630_t0614173_e0625393_b19023_c20150724184017807433_cspp_dev.h5
SVM15_npp_d20150630_t0614173_e0625393_b19023_c20150724184023898284_cspp_dev.h5
SVM16_npp_d20150630_t0614173_e0625393_b19023_c20150724184029932230_cspp_dev.h5

2.3 SUOMI NPP EDR (LEVEL 2) DATA FILES

Directory `jps/level2` contains ATMS, CrIS, and VIIRS Level 2 files in netCDF, HDF5, and HDF4 format. Example file names are as follows:

VIIRS sea surface temperature product from ACSPO (netCDF format):

`ACSPO_V2.31_NPP_VIIRS_2015-06-30_0614-0625_20150726.201158.nc`

VIIRS cloud product from CLAVR-x (HDF4 format):

`CLAVRx_npp_d20150630_t0614173_e0625393_b19023.level2.hdf`

CrIS temperature and moisture profile product from HSRTV (HDF5 format):

`CrIS_d20150630_t061433.atm_prof_rtv.h5`

VIIRS active wild fire products from CSPP EDR (HDF5 format):

`AVAFO_npp_d20150630_t0614173_e0615415_b19023_c20150726194215983979_cspp_dev.h5`
`AVAFO_npp_d20150630_t0615427_e0617069_b19023_c20150726194222750717_cspp_dev.h5`
`AVAFO_npp_d20150630_t0617081_e0618323_b19024_c20150726194229472990_cspp_dev.h5`
`AVAFO_npp_d20150630_t0618335_e0619577_b19024_c20150726194220169692_cspp_dev.h5`
`AVAFO_npp_d20150630_t0619589_e0621231_b19024_c20150726194248286847_cspp_dev.h5`
`AVAFO_npp_d20150630_t0621243_e0622485_b19024_c20150726194302979143_cspp_dev.h5`
`AVAFO_npp_d20150630_t0622497_e0624139_b19024_c20150726194312886411_cspp_dev.h5`
`AVAFO_npp_d20150630_t0624151_e0625393_b19024_c20150726194308219633_cspp_dev.h5`

VIIRS aerosol and suspended matter products from CSPP EDR (HDF5 format):

`IVAOT_npp_d20150630_t0614173_e0625393_b19023_c20150726194841343298_cspp_dev.h5`
`IVAMI_npp_d20150630_t0614173_e0625393_b19023_c20150726194849609246_cspp_dev.h5`
`VA000_npp_d20150630_t0614173_e0625393_b19023_c20150726194849354071_cspp_dev.h5`
`VSUMO_npp_d20150630_t0614173_e0625393_b19023_c20150726194850301132_cspp_dev.h5`
`GAERO_npp_d20150630_t0614173_e0625393_b19023_c20150726194848947359_cspp_dev.h5`

VIIRS cloud mask product from CSPP EDR (HDF5 format):

`IICMO_npp_d20150630_t0614173_e0625393_b19023_c20150726194839988783_cspp_dev.h5`

VIIRS surface reflectance product from CSPP EDR (HDF5 format):

`IVISR_npp_d20150630_t0614173_e0625393_b19023_c20150726194853282764_cspp_dev.h5`

VIIRS vegetation index product from CSPP EDR (HDF5 format):

VIVIO_npp_d20150630_t0614173_e0625393_b19023_c20150726194925542957_cspp_dev.h5

VIIRS land surface temperature product from CSPP EDR (HDF5 format):

VLST0_npp_d20150630_t0614173_e0625393_b19023_c20150726194933452343_cspp_dev.h5

VIIRS sea surface temperature product from CSPP EDR (HDF5 format):

VSST0_npp_d20150630_t0614173_e0625393_b19023_c20150726194851705766_cspp_dev.h5

VIIRS land surface type product from CSPP EDR (HDF5 format):

VSTY0_npp_d20150630_t0614173_e0625393_b19023_c20150726194932497018_cspp_dev.h5

ATMS temperature, moisture, and rainfall product from MIRS (netCDF format):

NPR-MIRS-IMG_v9-2_NPP_s201506300612553_e201506300627509_c201507261927400.nc

NPR-MIRS-SND_v9-2_NPP_s201506300612553_e201506300627509_c201507261927400.nc

VIIRS ocean color product from SeaDAS (HDF4 format):

SEADAS_npp_d20150630_t0614173_e0625393.hdf

3. NOAA 18 and 19

3.1 NOAA IMAGE FILES

Directory noaa/images contains reprojected NOAA AVHRR product images in PNG, JPEG, and GeoTIFF format. Example file names for NOAA-19 are as follows:

Images created from AVHRR cloud products by CLAVR-x in PNG format:

```
CLAVRx_cld_emiss_acha_20150801_192116-193403.png
CLAVRx_cld_height_acha_20150801_192116-193403.png
CLAVRx_cld_opd_dcomp_20150801_192116-193403.png
CLAVRx_cld_press_acha_20150801_192116-193403.png
CLAVRx_cld_reff_dcomp_20150801_192116-193403.png
CLAVRx_cld_temp_acha_20150801_192116-193403.png
CLAVRx_cloud_mask_20150801_192116-193403.png
CLAVRx_cloud_phase_20150801_192116-193403.png
CLAVRx_cloud_probability_20150801_192116-193403.png
CLAVRx_cloud_type_20150801_192116-193403.png
```

Images created from AVHRR Level 1B data by POLAR2GRID in GeoTIFF and JPEG format:

```
noaa19_avhrr_band1_vis_20150801_192116_lcc_fit.jpg
noaa19_avhrr_band1_vis_20150801_192116_lcc_fit.thumb.jpg
noaa19_avhrr_band1_vis_20150801_192116_lcc_fit.tif
noaa19_avhrr_band2_vis_20150801_192116_lcc_fit.jpg
noaa19_avhrr_band2_vis_20150801_192116_lcc_fit.thumb.jpg
noaa19_avhrr_band2_vis_20150801_192116_lcc_fit.tif
noaa19_avhrr_band3b_bt_20150801_192116_lcc_fit.jpg
noaa19_avhrr_band3b_bt_20150801_192116_lcc_fit.thumb.jpg
noaa19_avhrr_band3b_bt_20150801_192116_lcc_fit.tif
noaa19_avhrr_band4_bt_20150801_192116_lcc_fit.jpg
noaa19_avhrr_band4_bt_20150801_192116_lcc_fit.thumb.jpg
noaa19_avhrr_band4_bt_20150801_192116_lcc_fit.tif
noaa19_avhrr_band5_bt_20150801_192116_lcc_fit.jpg
noaa19_avhrr_band5_bt_20150801_192116_lcc_fit.thumb.jpg
noaa19_avhrr_band5_bt_20150801_192116_lcc_fit.tif
```

3.2 NOAA LEVEL 1 DATA FILES

Directory noaa/level1 contains AVHRR, AMSU, HIRS, and MHS Level 1 files in AAPP binary and HDF5 format. Example file names for NOAA 19 are as follows:

AMSU-A Level 1B and 1C files in AAPP binary and HDF5 format:

```
amsua11b_noaa19_20150801_1921_33393.l1b
amsua11c_noaa19_20150801_1921_33393.l1c
amsua11c_noaa19_20150801_1921_33393.l1c.h5
```

HIRS Level 1B, 1C, and 1D files in AAPP binary and HDF5 format:

```
hirs11b_noaa19_20150801_1921_33393.l1b
hirs11c_noaa19_20150801_1921_33393.l1c
hirs11c_noaa19_20150801_1921_33393.l1c.h5
hirs11d_noaa19_20150801_1921_33393.l1d
```

AVHRR Level 1B files in AAPP binary and HDF5 format:

hrpt_noaa19_20150801_1921_33393.l1b
hrpt_noaa19_20150801_1921_33393.l1b.h5

MHS Level 1B and 1C files in AAPP binary and HDF5 format:

mhs11b_noaa19_20150801_1921_33393.l1b
mhs11c_noaa19_20150801_1921_33393.l1c
mhs11c_noaa19_20150801_1921_33393.l1c.h5

3.3 NOAA LEVEL 2 DATA FILES

Directory noaa/level2 contains AVHRR, AMSU, HIRS, and MHS Level 2 products in netCDF and HDF4 format. Example file names for NOAA 19 are as follows:

AVHRR sea surface temperature product from ACSPO (netCDF format):

ACSPO_V2.31_NOAA19_FRAC_2015-08-01_1921-1934_20150801.195124.nc

AVHRR cloud product from CLAVR-x (HDF4 format):

CLAVRx.hrpt_noaa19_20150801_1921_33393.l1b.level2.hdf

AMSU and MHS temperature, moisture, and rainfall product from MIRS (netCDF format):

IMG_SX.NP.D15213.S1921.E1933.B3339393.WE.LR.ORB.nc
SND_SX.NP.D15213.S1921.E1933.B3339393.WE.LR.ORB.nc

HIRS and AMSU temperature and moisture profiles from IAPP (netCDF format):

noaa19_L2_d20150801_t1921202_e1933554_c20150801195030559793_iapp.nc

4. METOP A and B

4.1 METOP IMAGE FILES

Directory metop/images contains reprojected METOP AVHRR product images in PNG, JPEG, and GeoTIFF format. Example file names for Metop B are as follows:

Images created from AVHRR cloud products by CLAVR-x in PNG format:

```
CLAVRx_cld_emiss_acha_20150802_161058-162344.png
CLAVRx_cld_height_acha_20150802_161058-162344.png
CLAVRx_cld_opd_dcomp_20150802_161058-162344.png
CLAVRx_cld_press_acha_20150802_161058-162344.png
CLAVRx_cld_reff_dcomp_20150802_161058-162344.png
CLAVRx_cld_temp_acha_20150802_161058-162344.png
CLAVRx_cloud_mask_20150802_161058-162344.png
CLAVRx_cloud_phase_20150802_161058-162344.png
CLAVRx_cloud_probability_20150802_161058-162344.png
CLAVRx_cloud_type_20150802_161058-162344.png
```

Images created from AVHRR Level 1B data by POLAR2GRID in GeoTIFF and JPEG format:

```
metopb_avhrr_band1_vis_20150802_161058_lcc_fit.jpg
metopb_avhrr_band1_vis_20150802_161058_lcc_fit.thumb.jpg
metopb_avhrr_band1_vis_20150802_161058_lcc_fit.tif
metopb_avhrr_band2_vis_20150802_161058_lcc_fit.jpg
metopb_avhrr_band2_vis_20150802_161058_lcc_fit.thumb.jpg
metopb_avhrr_band2_vis_20150802_161058_lcc_fit.tif
metopb_avhrr_band3a_vis_20150802_161058_lcc_fit.jpg
metopb_avhrr_band3a_vis_20150802_161058_lcc_fit.thumb.jpg
metopb_avhrr_band3a_vis_20150802_161058_lcc_fit.tif
metopb_avhrr_band4_bt_20150802_161058_lcc_fit.jpg
metopb_avhrr_band4_bt_20150802_161058_lcc_fit.thumb.jpg
metopb_avhrr_band4_bt_20150802_161058_lcc_fit.tif
metopb_avhrr_band5_bt_20150802_161058_lcc_fit.jpg
metopb_avhrr_band5_bt_20150802_161058_lcc_fit.thumb.jpg
metopb_avhrr_band5_bt_20150802_161058_lcc_fit.tif
```

4.2 METOP LEVEL 1 DATA FILES

Directory metop/level1 contains AVHRR, AMSU, HIRS, IASI, and MHS Level 1 files in AAPP binary and HDF5 format. Example file names for Metop B are as follows:

AMSU-A Level 1B and 1C files in AAPP binary and HDF5 format:

```
amsual1b_M01_20150802_1610_14902.l1b
amsual1c_M01_20150802_1610_14902.l1c
amsual1c_M01_20150802_1610_14902.l1c.h5
```

HIRS Level 1B, 1C, and 1D files in AAPP binary and HDF5 format:

```
hirs11b_M01_20150802_1610_14902.l1b
hirs11c_M01_20150802_1610_14902.l1c
hirs11c_M01_20150802_1610_14902.l1c.h5
hirs11d_M01_20150802_1610_14902.l1d
```

AVHRR Level 1B files in AAPP binary and HDF5 format:

hrpt_M01_20150802_1610_14902.l1b
hrpt_M01_20150802_1610_14902.l1b.h5

IASI Level 1B, 1C, and 1D files in AAPP binary and HDF5 format:

iasil1c_M01_20150802_1610_14902.l1c
iasil1c_M01_20150802_1610_14902.l1c.h5
iasil1d_M01_20150802_1610_14902.l1d

IASI Level 1C file in EUMETSAT EPS binary format:

IASI_xxx_1C_M01_20150802161106Z_20150802162337Z_V_T_20150802162550Z

MHS Level 1B and 1C files in AAPP binary and HDF5 format:

mhs11b_M01_20150802_1610_14902.l1b
mhs11c_M01_20150802_1610_14902.l1c
mhs11c_M01_20150802_1610_14902.l1c.h5

4.3 NOAA LEVEL 2 DATA FILES

Directory metop/level2 contains AVHRR, AMSU, HIRS, IASI, and MHS Level 2 products in netCDF, HDF5, and HDF4 format. Example file names for Metop B are as follows:

AVHRR sea surface temperature product from ACSPO (netCDF format):

ACSPO_V2.31_METOPB_FRAC_2015-08-02_1610-1623_20150802.170956.nc

AVHRR cloud product from CLAVR-x (HDF4 format):

CLAVRx.hrpt_M01_20150802_1610_14902.l1b.level2.hdf

IASI temperature and moisture profile product from HSRTV (HDF5 format):

IASI_d20150802_t161106_M01.atm_prof_rtv.h5

AMSU and MHS temperature, moisture, and rainfall product from MIRS (netCDF format):

IMG_SX.M1.D15214.S1610.E1623.B0000001.WE.LR.ORB.nc
SND_SX.M1.D15214.S1610.E1623.B0000001.WE.LR.ORB.nc

HIRS and AMSU temperature and moisture profiles from IAPP (netCDF format):

metopb_L2_d20150802_t1610505_e1623257_c20150802165901626738_iapp.nc