

Format Conversion Tool

Operation Manual for Users

Appendix A

Ver. 6.0

28/10/2021

Changes and status paragraphs

Revision	Date	Modified or added paragraphs	Reason for change
1.0	10/03/2016	Creation	-
2.0	26/11/2016	-	Moved Section 8.1 to Appendix A.
3.0	20/6/2017	1.1	Wrote “DPR Daily L3” KuNS product which is outputted.
3.1	21/7/2017	-	We have released the data format conversion tool v3.1 to solve a bug of memory leak in trying GSMap binary data conversion.
4.0	12/3/2020	1.4	Aqua products added to target products.
5.0	29/3/2021	1.5	GCOM-C products added to target products.
6.0	28/10/2021	1.1	Added DPRMS, DPRMS and KuFS to the output file of DPR Daily L3. Added DPRFS, KaFS and KuFS to the output file of DPR Monthly L3.

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1. Details of conversion target products

1.1 GPM products

- GSMP Hourly L3(HDF5) – hourlyPrecipRate
- GSMP Monthly L3(HDF5)– MonthlyPrecipRate
- GSMP Daily Rainfall in 0.25-deg(Binary)
- GSMP Daily Rainfall in 0.1-deg(Binary)
- DPR Daily L3(HDF5) – Grid – PrecipRateESurfMean
 - ◇ DPRMS×Ascending
 - ◇ DPRMS×Descending
 - ◇ KuNS×Ascending
 - ◇ KuNS×Descending
- DPR Daily L3(HDF5) – Grid – PrecipRateESurfaceMean
 - ◇ DPRFS×Ascending
 - ◇ DPRFS×Descending
 - ◇ DPRMS×Ascending
 - ◇ DPRMS×Descending
 - ◇ KuFS×Ascending
 - ◇ KuFS×Descending
- DPR Monthly L3(HDF5) – Grids – G2 – precipRateESurface-mean
 - ◇ KuNS×stratiform
 - ◇ KuNS×convective
 - ◇ KuNS×all
 - ◇ KaMS×stratiform
 - ◇ KaMS×convective
 - ◇ KaMS×all
 - ◇ KaHS×stratiform
 - ◇ KaHS×convective
 - ◇ KaHS×all
 - ◇ DPRMS×stratiform
 - ◇ DPRMS×convective
 - ◇ DPRMS×all
 - ◇ KuMS×stratiform
 - ◇ KuMS×convective
 - ◇ KuMS×all

- DPR Monthly L3(HDF5) – FS – G2 – precipRateESurface-mean
 - ◇ DPRFS × stratiform
 - ◇ DPRFS × convective
 - ◇ DPRFS × all
 - ◇ KaFS × stratiform
 - ◇ KaFS × convective
 - ◇ KaFS × all
 - ◇ KuFS × stratiform
 - ◇ KuFS × convective
 - ◇ KuFS × all

1.2 GCOM-W products

- AMSR2 L1A/L1B(HDF5)
 - Observation Count(L1A)
 - ◇ 6.9GHz,H
 - ◇ 6.9GHz,V
 - ◇ 7.3GHz,H
 - ◇ 7.3GHz,V
 - ◇ 10.7GHz,H
 - ◇ 10.7GHz,V
 - ◇ 18.7GHz,H
 - ◇ 18.7GHz,V
 - ◇ 23.8GHz,H
 - ◇ 23.8GHz,V
 - ◇ 36.5GHz,H
 - ◇ 36.5GHz,V
 - ◇ 89GHz-A,H
 - ◇ 89GHz-A,V
 - ◇ 89GHz-B,H
 - ◇ 89GHz-B,V
 - Brightness Temperature (L1B)
 - ◇ 6.9GHz,H
 - ◇ 6.9GHz,V
 - ◇ 7.3GHz,H
 - ◇ 7.3GHz,V
 - ◇ 10.7GHz,H
 - ◇ 10.7GHz,V
 - ◇ 18.7GHz,H
 - ◇ 18.7GHz,V
 - ◇ 23.8GHz,H
 - ◇ 23.8GHz,V
 - ◇ 36.5GHz,H
 - ◇ 36.5GHz,V

- ◇ 89.0GHz-A,H
- ◇ 89.0GHz-A,V
- ◇ 89.0GHz-B,H
- ◇ 89.0GHz-B,V
- AMSR2 L1R(HDF5)
 - Brightness Temperature
 - ◇ reso06 6.9GHz,H
 - ◇ reso06 6.9GHz,V
 - ◇ reso06 7.3GHz,H
 - ◇ reso06 7.3GHz,V
 - ◇ reso06 10.7GHz,H
 - ◇ reso06 10.7GHz,V
 - ◇ reso06 18.7GHz,H
 - ◇ reso06 18.7GHz,V
 - ◇ reso06 23.8GHz,H
 - ◇ reso06 23.8GHz,V
 - ◇ reso06 36.5GHz,H
 - ◇ reso06 36.5GHz,V
 - ◇ reso06 89.0GHz,H
 - ◇ reso06 89.0GHz,V
 - ◇ reso10 10.7GHz,H
 - ◇ reso10 10.7GHz,V
 - ◇ reso10 18.7GHz,H
 - ◇ reso10 18.7GHz,V
 - ◇ reso10 23.8GHz,H
 - ◇ reso10 23.8GHz,V
 - ◇ reso10 36.5GHz,H
 - ◇ reso10 36.5GHz,V
 - ◇ reso10 89.0GHz,H
 - ◇ reso10 89.0GHz,V
 - ◇ reso23 18.7GHz,H
 - ◇ reso23 18.7GHz,V
 - ◇ reso23 23.8GHz,H
 - ◇ reso23 23.8GHz,V
 - ◇ reso23 36.5GHz,H
 - ◇ reso23 36.5GHz,V
 - ◇ reso23 89.0GHz,H
 - ◇ reso23 89.0GHz,V
 - ◇ reso36 36.5GHz,H
 - ◇ reso36 36.5GHz,V
 - ◇ reso36 89.0GHz,H
 - ◇ reso36 89.0GHz,V
 - ◇ original 89.0GHz-A,H
 - ◇ original 89.0GHz-A,V

- ◇ original 89.0GHz-B,H
 - ◇ original 89.0GHz-B,V
- AMSR2 L2 High(HDF5) – Geophysical Data
 - ◇ Precipitation for 89A
 - ◇ Precipitation for 89B
- AMSR2 L2 Low(HDF5) – Geophysical Data
 - ◇ Total Precipitable Water(
 - ◇ Cloud Liquid Water
 - ◇ Sea Surface Wind speed
 - ◇ Sea Surface Temperature
 - ◇ Sea Surface Temperature 10GHz
 - ◇ Snow Depth
 - ◇ Snow Water Equivalent
 - ◇ Soil Moisture Content
 - ◇ Sea Ice Concentration
- AMSR2 L3 (HDF5) – Brightness Temperature
 - ◇ Brightness Temperature H
 - ◇ Brightness Temperature V
- AMSR2 L3 (HDF5) – Geophysical Data
 - ◇ Total Precipitable Water
 - ◇ Cloud Liquid Water
 - ◇ Precipitation
 - ◇ Sea Surface Wind speed
 - ◇ Sea Surface Temperature
 - ◇ Sea Surface Temperature 10GHz
 - ◇ Snow Depth
 - ◇ Snow Water Equivalent
 - ◇ Soil Moisture Content
 - ◇ Sea Ice Concentration

1.3 JASMES products

- JASMES Global(Binary)
 - chla
 - dpar
 - lst
 - ndvi
 - olst
 - par
 - ptw
 - rgb
 - rpar
 - swr
 - taua

- tip
- uva
- uvb
- wf
- wst
- JASMES Global(HDF4) – snwefr_ghrm5c
- snwefr_mds10c
- JASMES Japan Area(Binary) –alph
- chla
- dpar
- ndvi
- olst
- par
- ptw
- rgb
- rpar
- swr
- taua
- tip
- uva
- uvb
- wf
- wst
- JASMES Japan Area(HDF4) – snwefr
- JASMES Thailand Area(Binary) – chla
- dpar
- ndvi
- olst
- par
- ptw
- rgb
- rpar
- swr
- taua
- tip
- uva
- uvb
- wf
- wst
- JASMES Gobi Desert(Binary) – aerosol

1.4 AQUA products

- AMSR-E L1B(HDF5)
 - Brightness Temperature(L1B)
 - ◇ 6.9GHz,H
 - ◇ 6.9GHz,V
 - ◇ 7.3GHz,H
 - ◇ 7.3GHz,V
 - ◇ 10.7GHz,H
 - ◇ 10.7GHz,V
 - ◇ 18.7GHz,H
 - ◇ 18.7GHz,V
 - ◇ 23.8GHz,H
 - ◇ 23.8GHz,V
 - ◇ 36.5GHz,H
 - ◇ 36.5GHz,V
 - ◇ 89.0GHz-A,H
 - ◇ 89.0GHz-A,V
 - ◇ 89.0GHz-B,H
 - ◇ 89.0GHz-B,V
- AMSR-E L1R(HDF5)
 - Brightness Temperature
 - ◇ reso06 6.9GHz,H
 - ◇ reso06 6.9GHz,V
 - ◇ reso06 7.3GHz,H
 - ◇ reso06 7.3GHz,V
 - ◇ reso06 10.7GHz,H
 - ◇ reso06 10.7GHz,V
 - ◇ reso06 18.7GHz,H
 - ◇ reso06 18.7GHz,V
 - ◇ reso06 23.8GHz,H
 - ◇ reso06 23.8GHz,V
 - ◇ reso06 36.5GHz,H
 - ◇ reso06 36.5GHz,V
 - ◇ reso06 89.0GHz,H
 - ◇ reso06 89.0GHz,V
 - ◇ reso10 10.7GHz,H
 - ◇ reso10 10.7GHz,V
 - ◇ reso10 18.7GHz,H
 - ◇ reso10 18.7GHz,V
 - ◇ reso10 23.8GHz,H
 - ◇ reso10 23.8GHz,V
 - ◇ reso10 36.5GHz,H
 - ◇ reso10 36.5GHz,V
 - ◇ reso10 89.0GHz,H
 - ◇ reso10 89.0GHz,V

- ◇ reso23 18.7GHz,H
 - ◇ reso23 18.7GHz,V
 - ◇ reso23 23.8GHz,H
 - ◇ reso23 23.8GHz,V
 - ◇ reso23 36.5GHz,H
 - ◇ reso23 36.5GHz,V
 - ◇ reso23 89.0GHz,H
 - ◇ reso23 89.0GHz,V
 - ◇ reso36 36.5GHz,H
 - ◇ reso36 36.5GHz,V
 - ◇ reso36 89.0GHz,H
 - ◇ reso36 89.0GHz,V
 - ◇ original 89.0GHz-A,H
 - ◇ original 89.0GHz-A,V
 - ◇ original 89.0GHz-B,H
 - ◇ original 89.0GHz-B,V
- AMSR-E L2 High(HDF5) – Geophysical Data
 - ◇ Precipitation for 89A
 - ◇ Precipitation for 89B
- AMSR-E L2 Low(HDF5) – Geophysical Data
 - ◇ Total Precipitable Water(
 - ◇ Cloud Liquid Water
 - ◇ Sea Surface Wind speed
 - ◇ Sea Surface Temperature
 - ◇ Sea Surface Temperature 10GHz
 - ◇ Snow Depth
 - ◇ Snow Water Equivalent
 - ◇ Soil Moisture Content
 - ◇ Sea Ice Concentration
- AMSR-E L3 (HDF5) – Brightness Temperature
 - ◇ Brightness Temperature H
 - ◇ Brightness Temperature V
- AMSR-E L3 (HDF5) – Geophysical Data
 - ◇ Total Precipitable Water
 - ◇ Cloud Liquid Water
 - ◇ Precipitation
 - ◇ Sea Surface Wind speed
 - ◇ Sea Surface Temperature
 - ◇ Sea Surface Temperature 10GHz
 - ◇ Snow Depth
 - ◇ Snow Water Equivalent
 - ◇ Soil Moisture Content
 - ◇ Sea Ice Concentration

1.5 GCOM-C products

- GCOM-C L1B VNR (HDF5) – Image Data
 - ◇ Lt_VN01
 - ◇ Lt_VN02
 - ◇ Lt_VN03
 - ◇ Lt_VN04
 - ◇ Lt_VN05
 - ◇ Lt_VN06
 - ◇ Lt_VN07
 - ◇ Lt_VN08
 - ◇ Lt_VN09
 - ◇ Lt_VN10
 - ◇ Lt_VN11
 - ◇ QA_flag
 - ◇ Land_water_flag
- GCOM-C L1B POL (HDF5) – Image Data
 - ◇ Lt_P1_0
 - ◇ Lt_P1_m60
 - ◇ Lt_P1_p60
 - ◇ Lt_P2_0
 - ◇ Lt_P2_m60
 - ◇ Lt_P2_p60
 - ◇ Lt_PI01
 - ◇ Lt_PI02
 - ◇ Lt_PQ01
 - ◇ Lt_PQ02
 - ◇ Lt_PU01
 - ◇ Lt_PU02
 - ◇ QA_flag
 - ◇ Land_water_flag
- GCOM-C L1B IRS (HDF5) – Image Data
 - ◇ Lt_SW01
 - ◇ Lt_SW02
 - ◇ Lt_SW03
 - ◇ Lt_SW04
 - ◇ Lt_TI01
 - ◇ Lt_TI02
 - ◇ QA_flag
 - ◇ Land_water_flag
- GCOM-C L2 NWLR (HDF5) – Image Data
 - ◇ NWLR_380

- ◇ NWLR_412
 - ◇ NWLR_443
 - ◇ NWLR_490
 - ◇ NWLR_530
 - ◇ NWLR_565
 - ◇ NWLR_670
 - ◇ PAR
 - ◇ TAUR_670
 - ◇ TAUR_865
 - ◇ QA_flag
- GCOM-C L2 IWPR (HDF5) – Image Data
 - ◇ CDOM
 - ◇ CHLA
 - ◇ TSM
 - ◇ QA_flag
- GCOM-C L2 SST (HDF5) – Image Data
 - ◇ SST
 - ◇ QA_flag
 - ◇ Cloud_probability
- GCOM-C L2 LTOA (HDF5) – Image Data
 - ◇ Lt_P1_0
 - ◇ Lt_P1_m60
 - ◇ Lt_P1_p60
 - ◇ Lt_P2_0
 - ◇ Lt_P2_m60
 - ◇ Lt_P2_p60
 - ◇ Lt_PI01
 - ◇ Lt_PI02
 - ◇ Lt_PQ01
 - ◇ Lt_PQ02
 - ◇ Lt_PU01
 - ◇ Lt_PU02
 - ◇ Lt_SW01
 - ◇ Lt_SW02
 - ◇ Lt_SW03
 - ◇ Lt_SW04
 - ◇ Lt_TI01
 - ◇ Lt_TI02
 - ◇ Lt_VN01
 - ◇ Lt_VN02
 - ◇ Lt_VN03
 - ◇ Lt_VN04
 - ◇ Lt_VN05

- ◇ Lt_VN06
 - ◇ Lt_VN07
 - ◇ Lt_VN08
 - ◇ Lt_VN08P
 - ◇ Lt_VN09
 - ◇ Lt_VN10
 - ◇ Lt_VN11
 - ◇ Lt_VN11P
 - ◇ QA_flag
 - ◇ Land_water_flag
- GCOM-C L2 RSRF (HDF5) – Image Data
 - ◇ Rs_PI01
 - ◇ Rs_PI02
 - ◇ Rs_SW01
 - ◇ Rs_SW02
 - ◇ Rs_SW03
 - ◇ Rs_SW04
 - ◇ Rs_VN01
 - ◇ Rs_VN02
 - ◇ Rs_VN03
 - ◇ Rs_VN04
 - ◇ Rs_VN05
 - ◇ Rs_VN06
 - ◇ Rs_VN07
 - ◇ Rs_VN08
 - ◇ Rs_VN08P
 - ◇ Rs_VN09
 - ◇ Rs_VN10
 - ◇ Rs_VN11
 - ◇ Rs_VN11P
 - ◇ Tb_TI01
 - ◇ Tb_TI02
 - ◇ QA_flag
 - ◇ Angstrom
 - ◇ Land_water_flag
 - ◇ PAR
 - ◇ Tau_500
 - ◇ SWR
- GCOM-C L2 LST (HDF5) – Image Data
 - ◇ LST
 - ◇ QA_flag
 - ◇ E01
 - ◇ E02

- GCOM-C L2 CLFG (HDF5) – Image Data
 - ✧ Cloud_flag