

TMI Emission 3A-11 Planetary Grid [L3A_11_PLANETGRID]

The following parameters are used in describing the formats:

- nlat: the number of 5° grid intervals of latitude from 40° N to 40° S (16).
- nlon: the number of 5° grid intervals of longitude from 180°W to 180°E (72).

Monthly Rainfall (SDS, array size nlat x nlon, 2-byte integer):

Name	Name in the TOOLKIT	Format	Description
Monthly Rainfall	monthRain(16,72)	2-byte integer	The Monthly Rainfall is the surface rainfall over oceans in 5° x 5° boxes from 40°N to 40°S. It ranges from 0.0 to 3000.0 mm and is multiplied by 10 and stored as a 2-byte integer. Data on land areas are assigned the value -9999.

Number of Samples (SDS, array size nlat x nlon, 2-byte integer):

Name	Name in the TOOLKIT	Format	Description
Number of Samples	noOfSamples(16,72)	2-byte integer	The Number of Samples is that over oceans in 5° x 5° boxes for one month. Ranges are TBD . Data on land areas are assigned the value -9999.

Chi Square Fit (SDS, array size nlat x nlon, 2-byte integer):

Name	Name in the TOOLKIT	Format	Description
Chi Square Fit	chiSqFit(16,72)	2-byte integer	The Chi Square Fit indicates how well the histogram of brightness temperatures fits the lognormal distribution function in 5° x 5° boxes for one month. It ranges from 1 to 5000. Data on land areas are assigned the value -9999.

Freezing Level (SDS, array size nlat x nlon, 2-byte integer):

Name	Name in the TOOLKIT	Format	Description
Freezing Level	freezLevel (16,72)	2-byte integer	The Freezing Level is the estimated height of 0°C isotherm over oceans in 5° x 5° boxes for one month. It ranges from 0.00 to 6.00 km and is multiplied by 100 and stored as a 2-byte integer. Data on land areas are assigned the value -9999.

T_0 (SDS, array size nlat x nlon, 2-byte integer):

Name	Name in the TOOLKIT	Format	Description
T_0	T0(16,72)	2-byte integer	The T_0 is the mean of non-raining brightness temperatures over oceans in 5° x 5° boxes for one month. It ranges from 160.0 to 180.0 K and is multiplied by 10 and stored as a 2-byte integer. Data on land areas are assigned the value -9999.

r_0 (SDS, array size nlat x nlon, 2-byte integer):

Name	Name in the TOOLKIT	Format	Description
r_0	r0(16,72)	2-byte integer	The r_0 is the logarithmic mean rain rate over oceans in 5° x 5° boxes for one month. It ranges from 0.00 to 15.00 mm/h and is multiplied by 100 and stored as a 2-byte integer. Data on land areas are assigned the value -9999.

Sigma_r (SDS, array size nlat x nlon, 2-byte integer):

Name	Name in the TOOLKIT	Format	Description
Sigma_r	sigmaR(16,72)	2-byte integer	The Sigma_r(r) is the standard deviation of logarithmic rain rates over oceans in 5° x 5° boxes for one month. It ranges from 0.00 to 1.00 mm/h and is multiplied by 100 and stored as a 2-byte integer. Data on land areas are assigned the value -9999.

Probability of Rain (SDS, array size nlat x nlon, 2-byte integer):

Name	Name in the TOOLKIT	Format	Description
Probability of Rain	probRain(16,72)	2-byte integer	The Probability of Rain is that over oceans in 5° x 5° boxes for one month. It ranges from 0.000 to 1.000 and is multiplied by 1000 and stored as a 2-byte integer. Data on land areas are assigned the value -9999.

Quality Indicator 1 (SDS, array size nlat x nlon, 2-byte integer):

Name	Name in the TOOLKIT	Format	Description
Quality Indicator 1	qInd1(16,72)	2-byte integer	TBD.

Quality Indicator 2 (SDS, array size nlat x nlon, 2-byte integer):

Name	Name in the TOOLKIT	Format	Description
Quality Indicator 2	qInd2(16,72)	2-byte integer	TBD.

Quality Indicator 3 (SDS, array size nlat x nlon, 2-byte integer):

Name	Name in the TOOLKIT	Format	Description
Quality Indicator 3	qInd3(16,72)	2-byte integer	TBD.

Spare (SDS, array size nlat x nlon, 2-byte integer):

Name	Name in the TOOLKIT	Format	Description
Spare	spare(16,72)	2-byte integer	TBD.