

TMI and PR Combined 3B-31 Planetary Grid [L3B_31_GRID]

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 180°W to 180°E (72).
- nlayer: the number of profiling layers (14).

Surface Rainfall (SDS, array size nlat x nlon, 4-byte float):

Name	Name in the TOOLKIT	Format	Description
Surface Rainfall	surfRainfall(16,72)	4-byte float	The Surface Rainfall is the surface rain accumulation in 5° x 5° boxes. It ranges from 0.0 to 3000.0 mm.

Surface Adjustment Ratio (SDS, array size nlat x nlon, 4-byte float):

Name	Name in the TOOLKIT	Format	Description
Surface Adjustment Ratio	surfAdjRatio(16,72)	4-byte float	The ratio of 2B31 to 2A12 surface rainfall, calculated from the swath overlap region for each 5° x 5°box.

Cloud Water (SDS, array size nlat x nlon x nlayer, 4-byte float):

Name	Name in the TOOLKIT	Format	Description
Cloud Water	cloudWater(16,72,14)	4-byte float	The cloud water is that at each vertical layer in each 5° x 5°box for one month. It ranges from 0.0 to 1000.0 g m ⁻³ .

Rain Water (SDS, array size nlat x nlon x nlayer, 4-byte float):

Name	Name in the TOOLKIT	Format	Description
Rain Water	rainWater(16,72,14)	4-byte float	The rain water is that at each vertical layer in each 5° x 5°box for one month. It ranges from 0.0 to 1000.0 g m ⁻³ .

Cloud Ice (SDS, array size nlat x nlon x nlayer, 4-byte float):

Name	Name in the TOOLKIT	Format	Description
Cloud Ice	cloudIce(16,72,14)	4-byte float	The cloud ice is that at each vertical layer in each 5° x 5°box for one month. It ranges from 0.0 to 1000.0 g m ⁻³ .

Graupel (SDS, array size nlat x nlon x nlayer, 4-byte float):

Name	Name in the TOOLKIT	Format	Description
Graupel	graupel(16,72,14)	4-byte float	The graupel is that at each vertical layer in each 5° x 5°box for one month. It ranges from 0.0 to 1000.0 g m ⁻³ .

Profile Adjustment Ratio (SDS, array size nlat x nlon x nlayer, 4-byte float):

Name	Name in the TOOLKIT	Format	Description
Profile Adjustment Ratio	profAdjRatio(16,72,14)	4-byte float	The ratio of 2B31 to 2A12 rainfall for each vertical layer. The ratio is calculated from the swath overlap region for each 5° x 5°box.