

NSIDC-0772: Ancillary Data for EASE/EASE 2.0 Grids

1 EASE-GRIDS 2.0

EASE-Grids 2.0 provide arrays of the latitude and longitude at the center of each EASE-Grid 2.0 grid cell. Data are in degrees and are double-precision (8-byte) floating point values. A fill value of -999.0 is used for grid cells in the polar grids which do not map to the Earth's surface.

The standard EASE-Grid 2.0 grids include Northern Hemisphere (N), Southern Hemisphere (S), and two Global grids: Modified cylindrical equal-area grid (M) and Temperate and Tropical cylindrical equal-area grid (T). The N, S, and M grids are provided for grids which nest in the 25km and 36km grids, and T grids are provided for grids that nest in the 25km grids.

Northern hemisphere: 3.125, 6.25, 12.5, 25km; and 1, 3, 9, 36km

Southern hemisphere: 3.125, 6.25, 12.5, 25km; and 1, 3, 9, 36km

Global M: 3.125, 6.25, 12.5, 25km; and 1, 3, 9, 36km

Global T: 3.125, 6.25, 12.5, 25km

1.1 File Names

Naming structure:

```
NSIDC0772_LatLon_EASE2_[NSMT]<resolution>km_v1.0.nc
```

Northern Hemisphere files:

25km Grids

```
NSIDC0772_LatLon_EASE2_N3.125km_v1.0.nc
```

```
NSIDC0772_LatLon_EASE2_N6.25km_v1.0.nc
```

```
NSIDC0772_LatLon_EASE2_N12.5km_v1.0.nc
```

```
NSIDC0772_LatLon_EASE2_N25km_v1.0.nc
```

36km Grids

```
NSIDC0772_LatLon_EASE2_N01km_v1.0.nc
```

```
NSIDC0772_LatLon_EASE2_N03km_v1.0.nc
```

```
NSIDC0772_LatLon_EASE2_N09km_v1.0.nc
```

```
NSIDC0772_LatLon_EASE2_N36km_v1.0.nc
```

Southern Hemisphere files:

25km Grids



NSIDC0772_LatLon_EASE2_S3.125km_v1.0.nc
NSIDC0772_LatLon_EASE2_S6.25km_v1.0.nc
NSIDC0772_LatLon_EASE2_S12.5km_v1.0.nc
NSIDC0772_LatLon_EASE2_S25km_v1.0.nc

36km Grids

NSIDC0772_LatLon_EASE2_S01km_v1.0.nc
NSIDC0772_LatLon_EASE2_S03km_v1.0.nc
NSIDC0772_LatLon_EASE2_S09km_v1.0.nc
NSIDC0772_LatLon_EASE2_S36km_v1.0.nc

Global Modified Cylindrical files:

25km Grids

NSIDC0772_LatLon_EASE2_M3.125km_v1.0.nc
NSIDC0772_LatLon_EASE2_M6.25km_v1.0.nc
NSIDC0772_LatLon_EASE2_M12.5km_v1.0.nc
NSIDC0772_LatLon_EASE2_M25km_v1.0.nc

36km Grids

NSIDC0772_LatLon_EASE2_M01km_v1.0.nc
NSIDC0772_LatLon_EASE2_M03km_v1.0.nc
NSIDC0772_LatLon_EASE2_M09km_v1.0.nc
NSIDC0772_LatLon_EASE2_M36km_v1.0.nc

Temperate and Tropical files:

25km Grids

NSIDC0772_LatLon_EASE2_T3.125km_v1.0.nc
NSIDC0772_LatLon_EASE2_T6.25km_v1.0.nc
NSIDC0772_LatLon_EASE2_T12.5km_v1.0.nc
NSIDC0772_LatLon_EASE2_T25km_v1.0.nc

2 EASE-GRIDS

EASE-Grids provide arrays of the latitude or longitude at the center of each EASE-Grid cell. Data are in degrees and are double-precision (8-byte) floating point values.

New products use the EASE-Grid 2.0. However, many existing data sets still use the original EASE-Grids. Ancillary files are provided for the original EASE-Grids: Northern Hemisphere (N),

Southern Hemisphere (S), and Global Modified cylindrical equal-area grid (M), each at 12.5km and 25km.

For more information on EASE Grids, refer to <https://nsidc.org/data/ease>.

2.1 File Names

Naming structure:

```
NSIDC0772_LatLon_EASE_[NSM]<resolution>km_v1.0.nc
```

Northern Hemisphere files:

```
NSIDC0772_LatLon_EASE_N12.5km_v1.0.nc
```

```
NSIDC0772_LatLon_EASE_N25km_v1.0.nc
```

Southern Hemisphere files:

```
NSIDC0772_LatLon_EASE_S12.5km_v1.0.nc
```

```
NSIDC0772_LatLon_EASE_S25km_v1.0.nc
```

Global Mercator files:

```
NSIDC0772_LatLon_EASE_M12.5km_v1.0.nc
```

```
NSIDC0772_LatLon_EASE_M25km_v1.0.nc
```