A Big Earth Data Platform for Three Poles

**AMSR-E/aqua daily gridded brightness temperatures of China**

1、Description

This dataset includes passive microwave remote sensing brightness temperatures data for longitude and latitude projections and 0.25 degree resolution from 2002 to 2008 in China.
1. Data processing process:
NSIDC produces AMSR-E gridded brightness temperature data by interpolating AMSR-E data (6.9 GHz, 10.7 GHz, 18.7 GHz, 23.8 GHz, 36.5 GHz, and 89.0 GHz) to the output grids from swath space using an Inverse Distance Squared (ID2) method.
2. Data format:
Brightness temperature files: two-byte unsigned integers, little-endian byte order
Time files: two-byte signed integers, little-endian byte order
3. Data naming:
ID2rx-AMSRE-aayyyydddp.vnn.ccc (China-ID2r1-AMSRE-D.252002170A.v03.06V)
ID2 Inverse Distance Squared
r1 Resolution 1 swath input data
AMSRE Identifies this an AMSR-E file
D.25 Identifies this as a quarter degree file
yyyy Four-digit year
ddd Three-digit day of year
p Pass direction (A = ascending, D = descending)
vnn Gridded data version number (for example, v01, v02, v03)
ccc AMSR-E channel indicator: numeric frequency (06, 10, 18, 23, 36, or 89) followed by polarization (H or V)
4. Cutting range:
Corner Coordinates:
Upper Left (60.0000000, 55.0000000) (60d 0'0.00 "E, 55d 0'0.00" N)
Lower Left (60.0000000, 15.0000000) (60d 0'0.00 "E, 15d 0'0.00" N)
Upper Right (140.0000000, 55.0000000) (140d 0'0.00 "E, 55d 0'0.00" N)
Lower Right (140.0000000, 15.0000000) (140d 0'0.00 "E, 15d 0'0.00" N)
Center (100.0000000, 35.0000000) (100d 0'0.00 "E, 35d 0'0.00" N)
Origin = (60.000000000000000, 55.000000000000000)
5. Data projection:
GEOGCS ["WGS 84",
DATUM ["WGS\_1984",
SPHEROID ["WGS 84", 6378137,298.257223563,
AUTHORITY ["EPSG", "7030"]],
TOWGS84 [0,0,0,0,0,0,0],
AUTHORITY ["EPSG", "6326"]],
PRIMEM ["Greenwich", 0,
AUTHORITY ["EPSG", "8901"]],
UNIT ["degree", 0.0174532925199433,
AUTHORITY ["EPSG", "9108"]],
AUTHORITY ["EPSG", "4326"]]

2、Keywords

Theme：Atmosphere Remote Sensing,land surface temperature
Discipline：Atmosphere,Others
Places：China
Time：2002-2008

3、Data details

1.Scale：None

2.Projection：None

3.Filesize：6550.0MB

4.Data format：栅格

4、Space scope

|  |  |  |
| --- | --- | --- |
| - | north：53.9 | - |
| west：73.2 | - | east：135.5 |
| - | south：17.8 | - |

5、Time frame:2002-01-11 09:24:00+00:00--2009-01-04 17:00:00+00:00

6、Reference method

References to data:

Richard Armstrong, Matthew Savoie, Ken Knowles, Mary Jo Brodzik. AMSR-E/aqua daily gridded brightness temperatures of China. A Big Earth Data Platform for Three Poles, 2012

References to articles:

Knowles, K. W., M. H. Savoie, R. L. Armstrong, and M. J. Brodzik. 2006, updated current year. AMSR-E/Aqua Daily EASE-Grid Brightness Temperatures, [list dates of data used]. Boulder, Colorado USA: National Snow and Ice Data Center. Digital media.

7、Supporting project information

8、Data resource provider

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