

Detailed AMSR-E Direct Broadcast Soil Moisture Level 2B Data

Description

<https://www.tutorialspoint.com/cplusplus/index.htm>

rather than
the follow

Latitude	Float32 (-90.0 to 90.0)
Longitude	Float32 (-180.0 to 180.0)
Row_Index	16-bit integer. EASE-Grid row index (0-585)
Column_Index	16-bit integer. EASE-Grid column index (0-1382)
TB_QC_Flag	<p>16-bit integer. Brightness temperature (T_B) quality control flag. A non-zero value indicates a given channel is out of limits for a given pixel, as the following values indicate. These values indicate the first bad channel detected, though more than one channel may be bad.</p> <p>0: Good T_B in all channels -89: Bad T_B in 89H GHz +89: Bad T_B in 89V GHz -36: Bad T_B in 36.5H GHz +36: Bad T_B in 36.5V GHz -23: Bad T_B in 23.8H GHz +23: Bad T_B in 23.8V GHz -18: Bad T_B in 18.7H GHz +18: Bad T_B in 18.7V GHz -10: Bad T_B in 10.7H GHz +10: Bad T_B in 10.7V GHz -06: Bad T_B in 6.9H GHz +06: Bad T_B in 6.9V GHz</p>
Heterogeneity_Index	16-bit integer. As part of the Level-2B processing, a heterogeneity index is computed as the standard deviation of the 36.5H GHz, 11 km resolution data points within each 25 km EASE-Grid cell. The index is used as an output data quality flag. Divide data values by 100 to obtain units in Kelvins (K). A value of -9999 implies bad T_B data in any channel (TB_QC_Flag).
Surface_Type	16-bit integer. Indicates surface type classification .
Soil_Moisture	16-bit integer. Soil moisture at 6.9 GHz resolution. Divide data values by 1000 to obtain soil moisture in g cm^{-3} . Range: 0 to 500. A value of -9999 indicates no retrieval, due to bad T_B data in the retrieval channels (TB_QC_Flag) or screening by land surface classification (Inversion_QC_Flag_1).
Veg_Water_Content	16-bit integer. Vegetation and surface roughness parameter at 6.9 GHz resolution. This term incorporates effects of vegetation and surface roughness together (see Derivation Techniques and Algorithms). Divide data values by 100 to obtain vegetation water content in kg m^{-2} . Range: 0-1000. A value of -9999 indicates no retrieval.
Land_Surface_Temp	16-bit integer. Land surface temperature is not calculated because of radio frequency interference (RFI) contamination in the 6.9 GHz channels. The field contains only fill values (-9999).
Inversion_QC_Flag_1	<p>16-bit integer. Inversion quality control flag. Values are as follows:</p> <p>10: Good retrieval using empirical algorithm 12: Bad retrieval using empirical algorithm 14: No retrieval 20: Good retrieval using iterative algorithm 22: Questionable retrieval using iterative algorithm 24: Bad retrieval using iterative algorithm 26: No retrieval</p>
Inversion_QC_Flag_2	16-bit integer. Not currently used.
Inversion_QC_Flag_3	16-bit integer. Not currently used.