Global monthly AMSR-E-derived Soil Moisture

The dataset contains global monthly-mean soil moisture statistics (average values and standard deviation) for 1 by 1 degree grid cells.
The source for the data is AMSR-E daily estimates of soil moisture (Product name: AMSR_E_L3_DailyLand). The dataset covers the time period strating July 2002.

Data files contain 180 lines with 360 pixels per line. The projection is latitude-longitude with the upper left corner of the first pixel of the first line positioned at 90N 180W.

The file naming convention:

amsre_soil_moisture_avr_mm_yyyy : monthly average soil moisture where "mm" is a two digit month number, and "yyyy" is a four-digit year
amsre_soil_moisture_std_mm_yyyy : standard deviation of soil moisture

Soil moisture values are in g/cm^3 multiplied by 1000 and saved as 2-byte integer (Linux system was used)

Valid range of values in files is 0 to 500 corresponding to 0 to 0.5 g/cm^3 soil moisture or standard deviation of soil moisture.

Values outside this range mean "no data"