

## Construction of Solar Cycle Averages

Katja Matthes – katja.matthes AT met.fu-berlin.de

February 2008

The start and end date of the individual solar cycles (SCs) are taken from

[ftp://ftp.ngdc.noaa.gov/STP/SOLAR\\_DATA/SUNSPOT\\_NUMBERS/maxmin.new](ftp://ftp.ngdc.noaa.gov/STP/SOLAR_DATA/SUNSPOT_NUMBERS/maxmin.new)

sc19: 1st April 1954 to 31st Oct 1964 : representative for mean 1960 conditions

sc20: 1st Nov 1964 to 30 Jun 1976 : representative for mean 1970 conditions

sc21: 1st Jul 1976 to 30 Sep 1986 : representative for mean 1980 conditions

sc22: 1st Oct 1986 to 30 Apr 1996 : representative for mean 1990 conditions

sc23: 1st May 1996 to 31 Dec 2006\* : representative for mean 2000 conditions

scmean: (sc19+sc20+sc21+sc22+sc23)/5.

Four tar files with the data are available (to extract use “tar xvf filename”):

1. mean\_sc\_1960.tar: files for 1960 conditions for the two wavelength ranges: meansc\_YEAR.txt, euv\_meansc\_YEAR.txt
2. mean\_sc\_2000.tar: files for 2000 conditions
3. mean\_sc\_1950-2006.tar: files for average of all 5 solar cycles
4. mean\_sc\_all.tar: all average data

\* Note: the official solar cycle minimum for sc23 is Dec 2007 but we only have data until Dec 2006!

The averages were constructed from the time series of daily values.