

[P11]

60-YEAR DATABASE OF COSMIC-RAY NEUTRON FLUXES HELD BY WDC FOR COSMIC RAYS

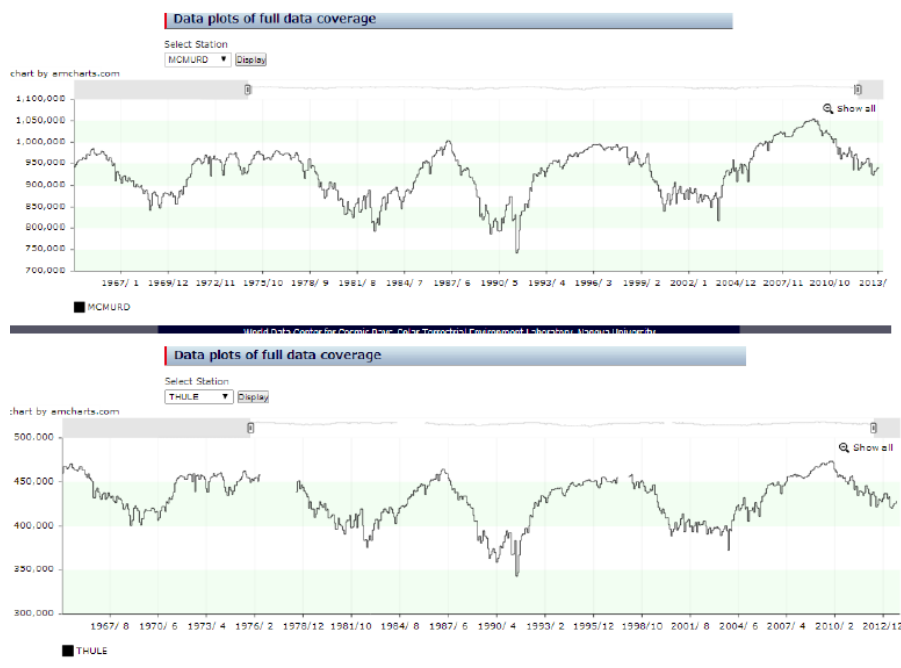
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The World Data center (WDC) for Cosmic Rays was established in 1957 in RIKEN, Tokyo, as a C2 center of the ICSU WDC. This WDC has been moved to the Solar-Terrestrial Environment Laboratory, Nagoya University in 1991. The principal data held by the WDC are pressure-corrected and scale-adjusted one-hour counts of cosmic-ray neutron data which are provided by ground-based stations (about 50 at present) distributed in a wide range of the longitude and the latitude. Quality controlled data are opened through the Web page given below. This database will be useful for studies of variations of cosmic-ray flux with time scales ranging from hours to years. A long-term trend of the time variations of cosmic-ray flux in current 60 years is discussed. Beside of well-known 11-year variations of the flux, in the opposite sense of the sunspot cycle, a general increasing trend can be seen since the Cycle 23.

<http://center.stelab.nagoya-u.ac.jp/WDCR/>.



Examples of on-line plots of monthly values at McMurdo (upper) and Thule (lower).