

A Search for Periodicities in the Solar Flux at 127 MHz

O.N.A. Fadipe^{C, S}

Department Of Geology & Applied Geophysics, University Of Ado-Ekiti, Ekiti-State, Nigeria
dr.nicholasfadipe@yahoo.co.uk

The mean flux density of the Sun is being monitored quite systematically at Torun since 1958. In this study we have Fourier analysed the daily mean values to see whether periodicities known to exist in other indices of solar activity manifest also in these data. Besides the clearly seen 11-year cycle, we find a suggestive arguments in favour of longer period cyclicities, especially the one at 48 years. At the other end of the spectrum we have paid special attention to check the existence of the recently discovered 154-day periodicity and other subharmonics of the fundamental period of 25.8 days. We failed to detect this longest component but fairly strong peaks do occur at certain subharmonics (at 52, 81 and 103 days). These periodicities, however, appear only intermittently.