

Free diurnal nutation derived from BLZ and PIP latitude data

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The values of the period, the amplitude and the phase of the free diurnal nutation were computed by using 37 years of Belgrade (BLZ in the FK5 reference frame) and 13 years of Punta Indio (PIP in the HIPPARCOS reference frame) homogeneized latitude data. Direct Fourier transforms method of spectral analysis was applied to the data, and the results presented here (compared with each other and with the other ones) can be useful for the remarks of IAU 1980 nutation model and FK5 reference frame.