

At the Central Bureau of the International Polar Motion Service, Mizusawa, apparent declinations of the star pairs have been computed for latitude observations at five International Latitude Observatories.

Bibliography

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3. Hurukawa, K. On the precise calculation of the apparent places of fixed stars using the rectangular co-ordinates. *Proc. Intern. Lat. Obs. Mizusawa*, no. 3, 1963.

A. M. SINZI

*Nautical Almanac Unit, Regional Meteorological Centre,
India Meteorological Department, Calcutta, India*

Since the presentation of the last report in 1961 three more volumes of the *Indian Ephemeris and Nautical Almanac*, viz. for 1962, 1963 and 1964, have each been published almost a year in advance. The edition for 1965 has been published in January 1964.

No substantial change has been made in the contents of the above publication except that the *Fourth Fundamental Catalogue* (FK4) has been adopted for mean places and annual proper motions of stars with effect from the 1964 issue. A new table has been added from the 1963 issue on incorporating precessional elements for reduction of mean places of stars to some back epochs.

The usual computations of the additional items for inclusion in the above publication have been continued. Among the new items of work undertaken in the intervening period mention may be made of an analysis carried out for re-fixation of the arcs of visibility for the calculation of heliacal rising and setting of the five principal planets on the basis of observations recorded at the Nizamiah Observatory, Hyderabad and the Kodaikanal Astrophysical Observatory. From the 1964 issue dates for the above phenomena have been computed on the basis of the revised values.

The work relating to the publication of a booklet *Tables of Sunrise, Sunset and Moonrise, Moonset*, being a reprint from the *Indian Ephemeris and Nautical Almanac*, is done annually.

In addition to the main publication, *Rashtriya Panchangs* giving all details of the Indian Calendar are published in English, Sanskrit, Hindi and nine regional languages, viz., Urdu, Bengali, Oriya, Telugu, Tamil, Malayalam, Kannada, Marathi and Gujarati. The issues for 1885 Saka era (1963-64) have been published in 1963.

N. C. LAHIRI