

REVISED VALUES (1941–1961) OF THE COORDINATES OF THE POLE REFERRED TO THE CIO

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Abstract. Coordinates of the pole from the past ILS for the period 1900.0–1962.0 were reduced to the Conventional International Origin and published by us in 1969. Among them, data for 1941.0–1962.0 were revised owing to the revisions in their original values which were made and published recently by Nicolini and Cecchini.

The list of the coordinates of the pole obtained from the results at the International Latitude Service stations and published previously by us (1969) in order to give reliable monthly values reduced to the Conventional International Origin (CIO) should be revised, because some of the original data by the past directors of the Service were revised and published lately.

Revised values for 1941.0–1949.0 in the CIO System have been published by Nicolini (1970) and those for 1949.0–1962.0 have appeared in the report by Cecchini (1970), but the latter were slightly different from the CIO System. Both of them were made available during the XIV General Assembly of the International Astronomical Union (1970).

Revised values of pole coordinates for the former period were taken directly from the report by Nicolini (1970), and those for the latter period were calculated from the report by Cecchini (1970) applying to them small corrections owing to the small difference of $0^{\circ}007$ in mean latitude of Kitab between those adopted by Cecchini and by the CIO. The full paper with the table of revised values was published by us (1970).

Comparison of the revised values with the previously published ones reveals discrepancies and shows the complexities of the calculations necessary to obtain the final monthly values.

Definitive results for 1949.0–1962.0 referred to the CIO System were reported by Cecchini (1971) to the Morioka Symposium. Values of coordinates of the pole in the report agree with our revised values with quite a small difference of $0^{\circ}001$ at most for some of them. This might be a difference in rounding errors caused by the procedures adopted by Cecchini and by us.

References

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