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Time and latitude results of observations made at Merate observatory with the astrolabe for the year 1980

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Summary. — Results of the observations made with the Astrolabe Danjon OPL no. 32 are given. The results are in the FK4 system.

Key words : astrolabe — astronomical time — latitude.

The results of observations made with the Astrolabe Danjon at Merate Observatory in the year 1980 are given. In the reductions provisional CLIs (corrections de lissage interne) are introduced, determined on the basis of data obtained until 1974.

These results follow those of 1979, 1978, 1977, 1976 published in this review, while those of the years 1970-1975 are given in Buffoni *et al.*, 1975.

The physical time scale has been provided by a standard atomic caesium clock since the 1st March 1974.

The observational methods (Mazzoleni, 1972) and computation techniques (Buffoni *et al.*, 1975) are explained in former papers.

Results are given in the FK 4 system.

The results are reported in table I, where the headings have the following meanings :

Column 1	: date in year, month, day
Column 2	: number of the group observed
Column 3	: code of the observer (see below)
Column 4	: mean universal time of the group's observation
Column 5	: difference UTO-UTC reported at the UTM time
Column 6	: weight of the time determination
Column 7	: difference UTO-TAI reported at 24 hours
Column 8	: instantaneous latitude residual in reference to the conventional latitude of 45°41'57".5
Column 9	: weight of latitude determination
Column 10	: radius of the altitude straight lines circle
Column 11	: number of stars observed in the group
Column 12	: weight of the residuals

Codes of the observers : 2 Francesco Mazzoleni, 4 Franca Chlistovsky, 5 Alessandro Manara, 6 Letizia Buffoni, 7 Fiamma Carta.

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