

## TIME AND LATITUDE RESULTS OF OBSERVATIONS MADE AT MERATE OBSERVATORY WITH THE ASTROLABE FOR THE YEAR 1977

L. BUFFONI, F. CHLISTOVSKY, A. MANARA and F. MAZZOLENI  
Osservatorio Astronomico di Milano-Merate, Italy

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Results of the observations made with the Astrolabe Danjon OPL no. 32 are given. These 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 1977 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 1976 published in the last year.

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

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

Results are given in the FK4 system.

The results are reported in table 1, where the headings have the following meanings:

- Column 1: date in year, month, day.
- Column 2: number of group observed.
- Column 3: code of the observer (see below).
- Column 4: mean universal time of the groups' observation.
- Column 5: difference UTO-UTC reported at the UTM time.
- Column 6: weight of 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.

### REFERENCES

- Buffoni, L., Carta, F., Chlistovsky, F., Manara, A. and Mazzoleni, F.: 1975, *Boll. Geodesia e Scienze Affini*, anno XXXIV, no. 3.  
Mazzoleni, F.: 1972, *Mem. Soc. Astron. Ital.* vol. XLIII, no. 3.

L. Buffoni  
F. Chlistovsky  
A. Manara  
F. Mazzoleni

Osservatorio Astronomico di Brera  
Via Brera 28  
I-20121 Milano (Italy)

Table 1

Table with 12 columns: DATE, Gr., Obs., UTM, UTO-UTC, W DT, UTO-TAI, ΔL, WΔ, R, N, Wz. Contains data rows for dates from 77 01 07 to 77 07 19.

Table with 12 columns: DATE, Gr., Obs., UTM, UTO-UTC, W DT, UTO-TAI, ΔL, WΔ, R, N, Wz. Contains data rows for dates from 77 08 02 to 77 12 20.