

ASTROMETRIC LATITUDE AND TIME OBSERVATIONAL DATABASE AT SHANGHAI OBSERVATORY

Zheng-Xin LI, You-Fen CHEN, Chang-Xia QIAN
Shanghai Observatory
Shanghai 200030, China

After the closing of Bureau International de L'Heure (BIH) and the establishment of International Earth Rotation Service (IERS) at the end of 1987. Shanghai Observatory has been the institute where the astrometric latitude and time observational data are collected and treated. During the past four years, about 75,293 measurements in latitude or time determination have been obtained by the 64 optical astrometric instruments over the world from which the five-day Earth Rotation Parameters of the 1988-1990 period have still been reduced. Twelve Quarterly Report on the optical ERP have been distributed. Since the beginning of 1991 the regular reduction of the ERP has been stopped but the collecting of the observational data is still going on in Shanghai Observatory in order to meet the requirements of the scientists who are still interested on the studies concerned with these observations. There are still 42 optical astrometric instruments taking part into the regular observations at the moment.

Base on the past collection made by the BIH, and also the IPMS, in the long history, a new database of the astrometric observations for the 30 years, 1962.0-1992.0, has been installed at Shanghai Observatory now. The purpose of the paper is to give a brief presentation on it.

A four-digit code system for the hundreds optical astrometric instruments, which have taken part in to the efforts of ERP determination in the 30 years, has been defined as:

1***	Photography Zenith Tube(PZT)	*1**	European continent
2***	Astrolabe(AST)	*2**	Asian continent
3***	Zenith Telescope(ZT)	*3**	Australia
4***	Transit Instrument(TI)	*4**	North America
5***	Circumzenithal(CIRC)	*5**	South America
		*6**	Africa

The 155 optical astrometric instruments, of which the observational data are stored in the Database, are shown in the Table which will be included in the paper with the same title in the Annals of Shanghai Observatory, No. 14.