

WGS-84 and SC-42 : current realisations of geodetic network of Uzbekistan and transformation parameters.

D.Fazilova, E. Mirmakhmudov

Department of Geodynamics of Ulugh Beg Astronomical Institute
of the Uzbek Academy of Sciences

Latitude Station, 731740, Kitab, Uzbekistan

Tel: +998-7554-21350, Fax: +998-7554-24678,

e-mail: kitab@uzsci.net

Abstract. Works on building Astronomical and Geodetic Network (AGN) of Central Asian region carried out from 1936 to 1985. At present Uzbek geodetic service and other organization use SC-42 system (Soviet Coordinate System, 1942, Krasowskij ellipsoid). The foundation of AGN is combination of the classical and modern methods. The building of the high-precision AGN of Uzbekistan in the World Geodetic System 1984 (WGS 84) is one of the main practical task of our department. For this purpose we have to define elements of network orientation with respect to WGS-84. We have used coordinates obtained from Kitab IGS and DORIS station as reference.