

Disclosed is a method for frequency and time synchronization of spatially separated time and frequency standards according to which values of skewing in reception time of the same fragment of GEO satellite signal against standard time scale are simultaneously measured at receiving points. Reception of coherent GPS-like signal of GEO satellite of SBAS system is carried out by means of beamed antennas which beam width is chosen upon condition that GEO satellite doesn't go out the nutation boundaries, then at each point where standards are arranged the quadrature processing of received signal-noise mixture in combination with intercorrelation processing in each channel with videosignal tagged to standard scale, which code coincides with satellite signal code, and signal delay time is determined by envelope and phase. This allows to estimate deviation of standard scales by results of measurement with account of difference of satellite signal delays caused by geometrical location of standards and satellite, nutation thereof, difference of signal delays in the equipment of points, as well as by parameters of ionosphere and troposphere at radio propagation paths.