Paris, 2003-10-28

11th meeting of the CCTF WG on TWSTFT
9-10 october 2003 at NPL, Teddington, UK

Report from BNM-SYRTE

The progress work on the two-way station of BNM-SYRTE is presented: the station is equipped with a SATRE-077 modem, an SR620 time interval counter, a MITEQ outdoor system for up and down converters, SSPA and LNA, and a VERTEX 2.4 m Gregorian asymmetric antenna. It is automated at 95 % level. The station received successfully both, the A.R.T licence (French telecommunications authority) and the Intelsat registration (technical approval).

Since the 1st of July 2003, BNM-SYRTE transmitted carriers (clean and coded) during two-way regular sessions within Europe-Europe links and Europe-USA links, using initially Intelsat 706 and recently Intelsat 903. European and American time signals are received as well, and a time interval is measured. Then, time data is computed according to the UIT-R TF.1153 recommendation, and saved at ftp.opdaf1.obspm.fr, in order to make time data available for the users interested: participating stations, BIPM, …

During the period from 2003-07-01 till 2003-08-31, an active hydrogen maser (H205) was connected to the two-way station while since the 1st of September 2003, UTC(OP) is connected: UTC(OP) is made using a high performance Caesium clock (HP5071A) associated to a microphase stepper (TST6490) and a digital clock (TST6460).

BNM-SYRTE mentioned that its station is operating 7 days per week, and ready to run 24 hours a day if required.