

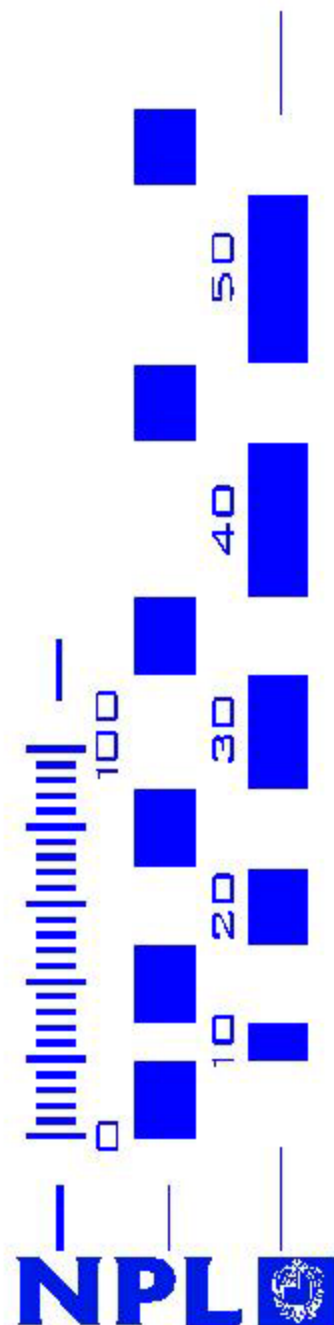
NPL Time & Frequency Section

*8th Meeting of the CCTF WG on
TWSTFT*

Report from NPL

Setnam Shemar & John Davis

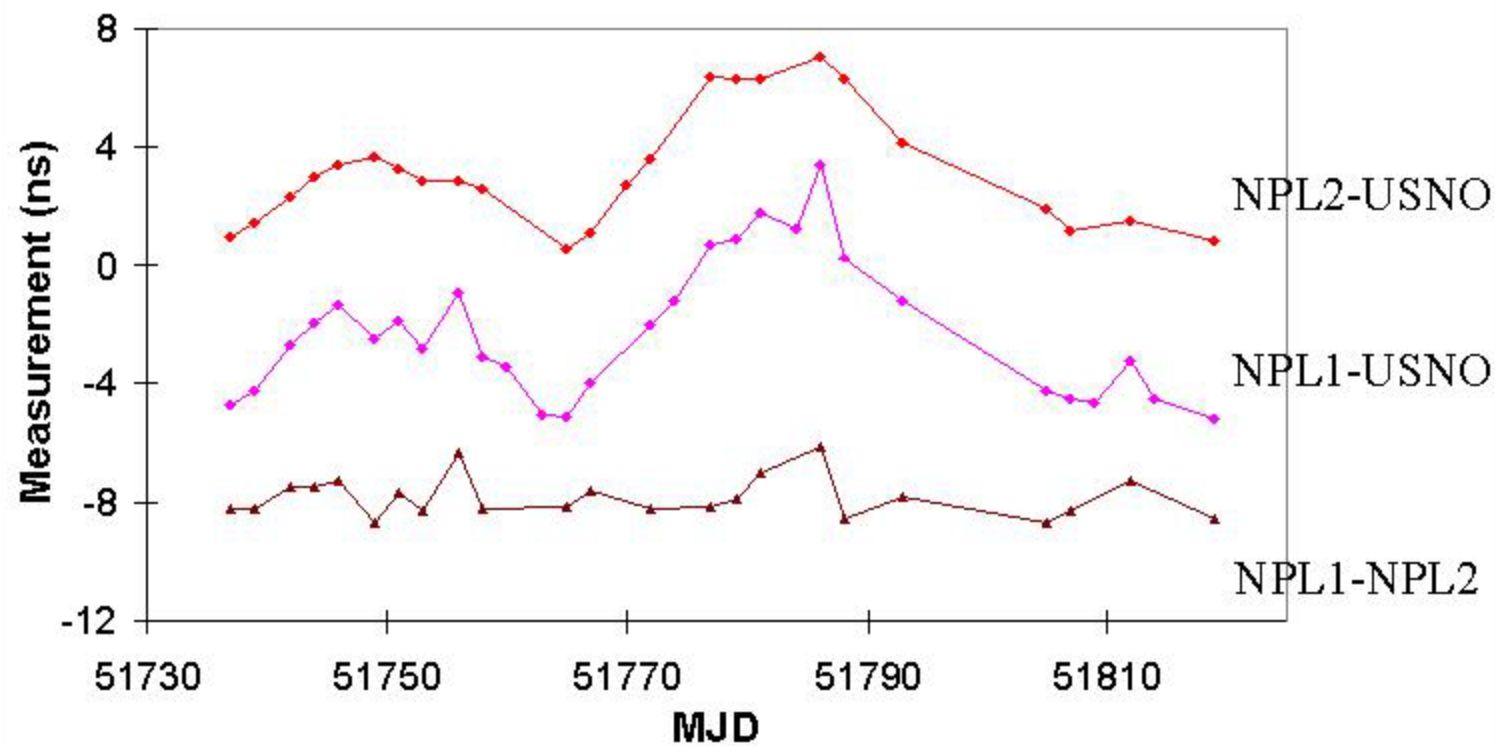
Date: 5 - 6th October 2000



Present Systems

- ◆ Primary earth station NPL01 (2.4 m)
Most hardware and data processing automated.
- ◆ Back-up earth station NPL02 (1.8m)
Routine measurements with USNO since July.
Data shows very high quality time transfers.
Plan to fully automate.
Need to agree satellite time costs.

Back-up System



New equipment orders

- ◆ Second Satre modem with carrier-phase facility in process of being ordered.
- ◆ Investigating possibility of an X-band earth station in year 2001/2002.

Ordering Satellite Time

- ◆ NPL has been trying to order satellite time directly from INTELSAT.
- ◆ Have also been in contact with COMSAT.
- ◆ Would be interesting to carry out a Transatlantic TW experiment.
- ◆ INTELSAT to be privatised in Apr 2001 !

NPL to relocate to new site

- ◆ Time Section due to start moving in ~March 2001.
- ◆ Plan to complete by ~Dec 2001.
- ◆ Plan to maintain smooth-running of TAI links during the move.

Intercomparisons

- ◆ S. Shemar prepared talk on intercomparison results at IGS/BIPM workshop.

	TW-CP (ns)	CV-CP (ns)	TW-CV (ns)
NPL-PTB	8	8	4
NPL-USNO	6	10	10
PTB-USNO	6	-	-

Composite Time Transfer

- ◆ J. Davis preparing paper on composite time transfer links for PTTI 2000.