

CCTF Working Group on TWSTFT  
BIPM, October 5-6, 2000

Station Report  
National Institute of Standards and Technology

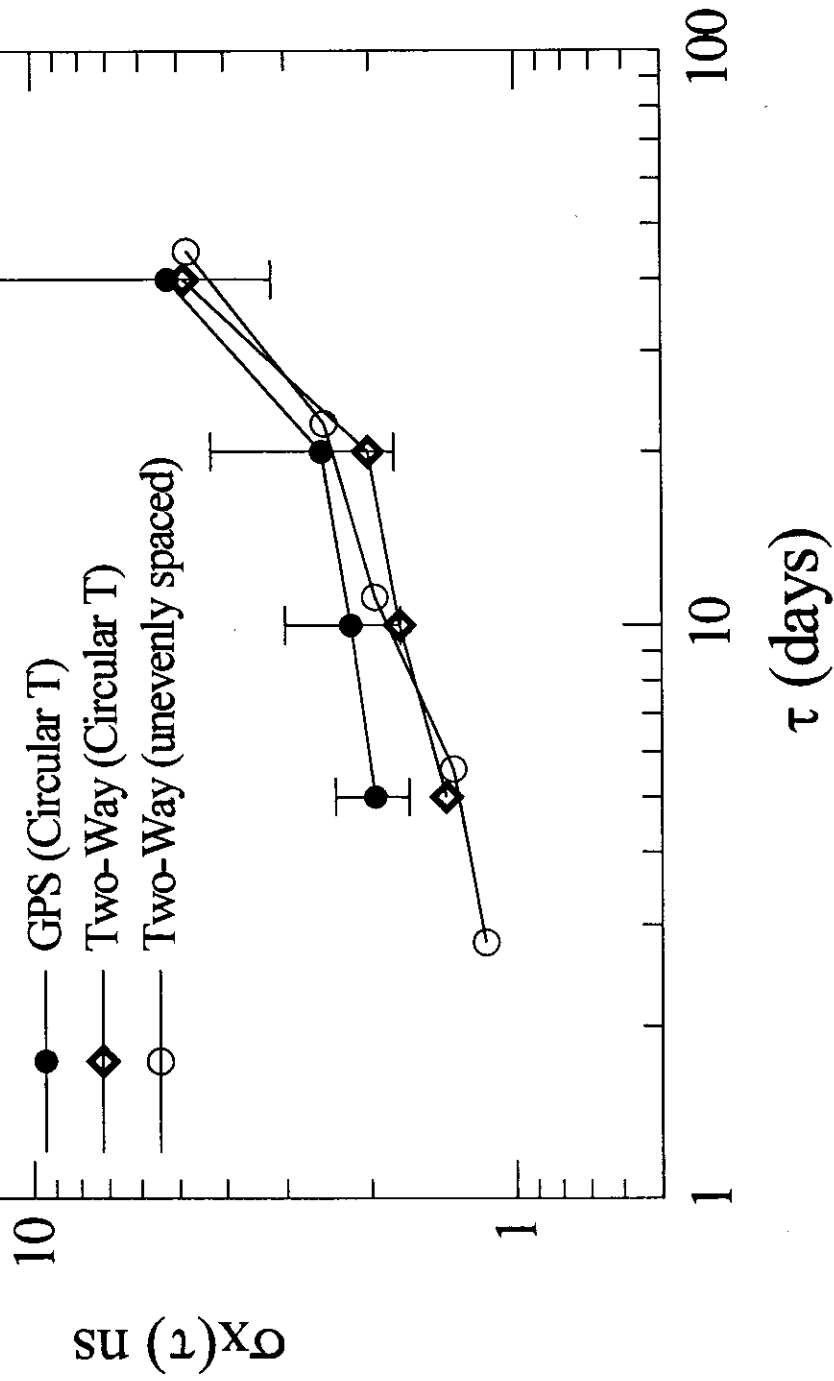
No major changes have been made in the NIST two-way hardware, although a number of small improvements have been made over the last few years.

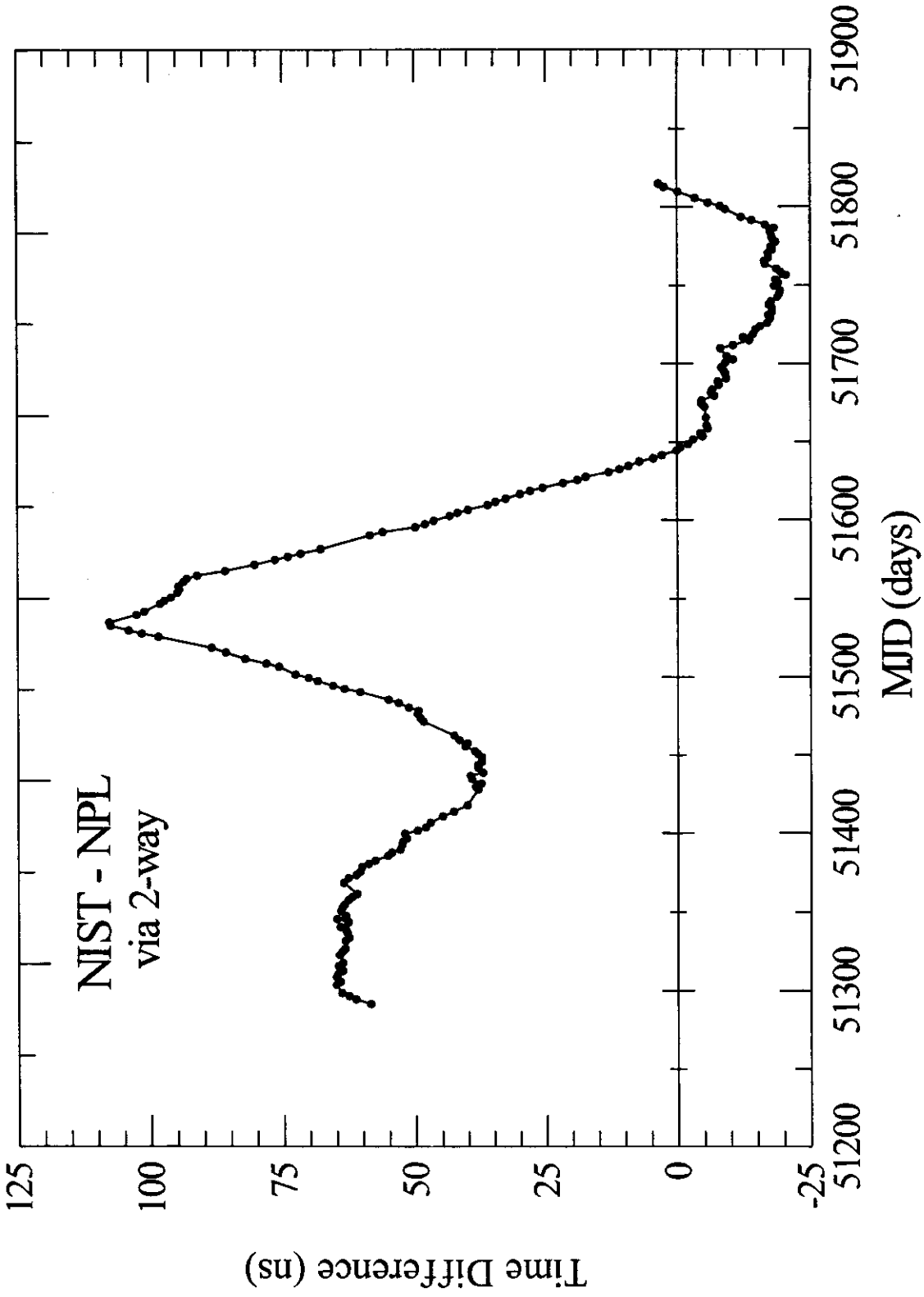
- The 70 MHz IF cables were replaced with low loss, temperature stable cables and the impedance matching was improved to reduce timing errors cause by reflected signals.
- The temperature stability in the two-way control room has been improved.
- The short-term stability of the reference clock, UTC(NIST), used for two-way has been improved with the use of an AOG and new distribution amplifiers.
- The data files are now posted to the FTP site within a few minutes of the end of the session.
- Will begin phasing in temperature control of the electronics in the hub in the next year.
- Will begin using two-way as our main link to TAI as soon as some reliability issues are resolved.
- Continue to carry out two-way exchanges with USNO, JPL and NRC once a week.
- Continue to carry out C-band two-way exchanges between Fort Collins and NML in Australia.

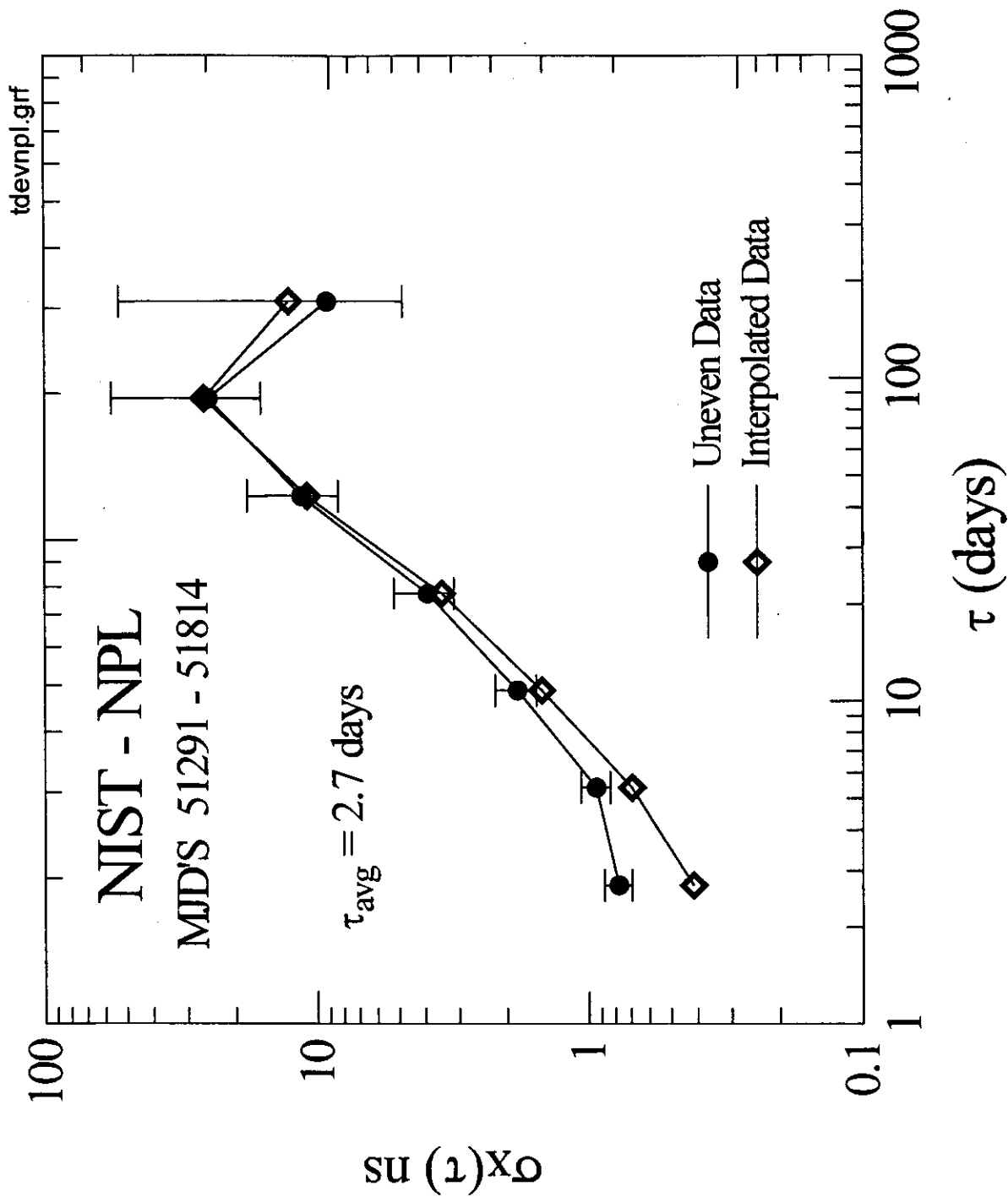
T. Parker

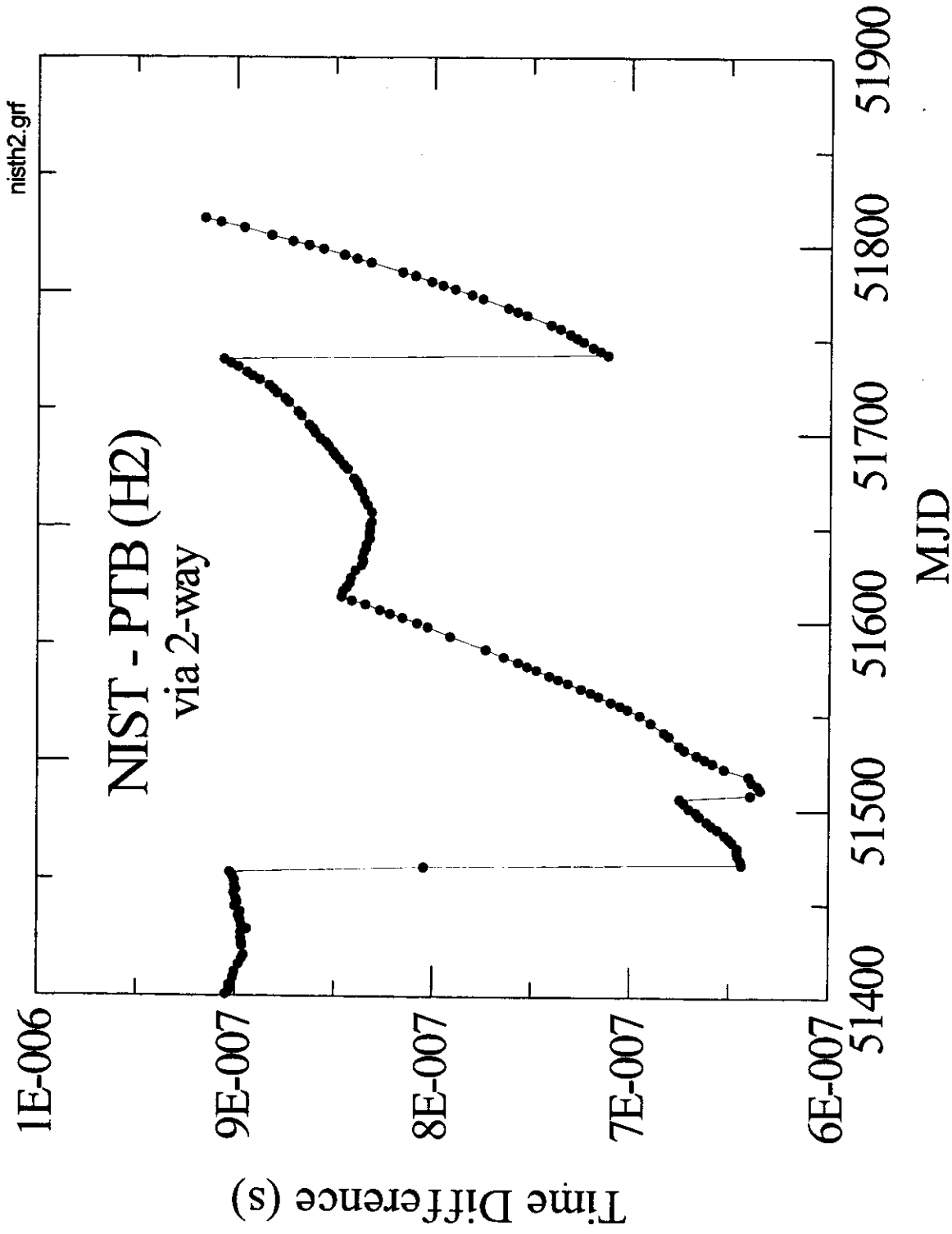
# NIST - PTB

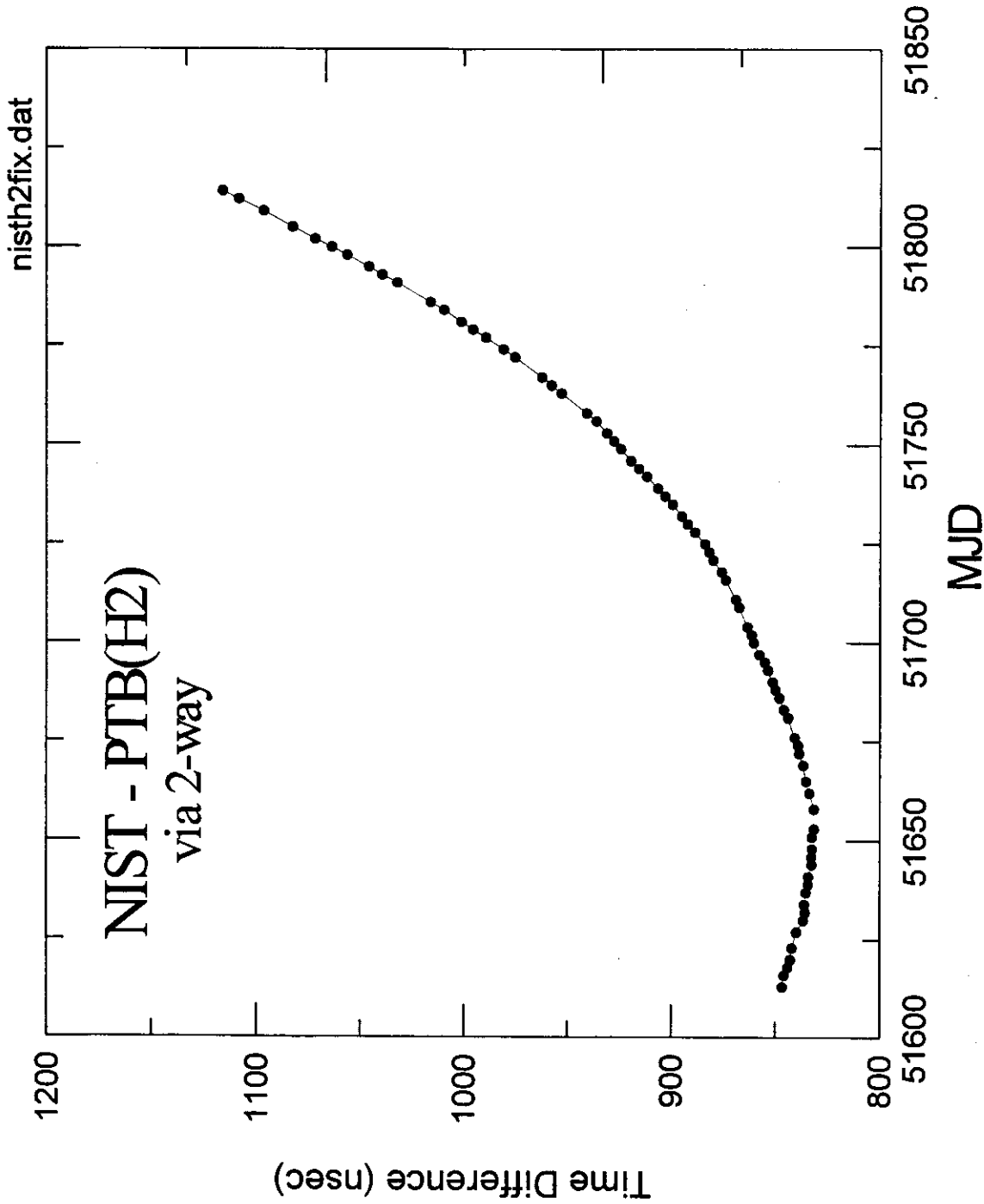
MID'S 51514 - 51724









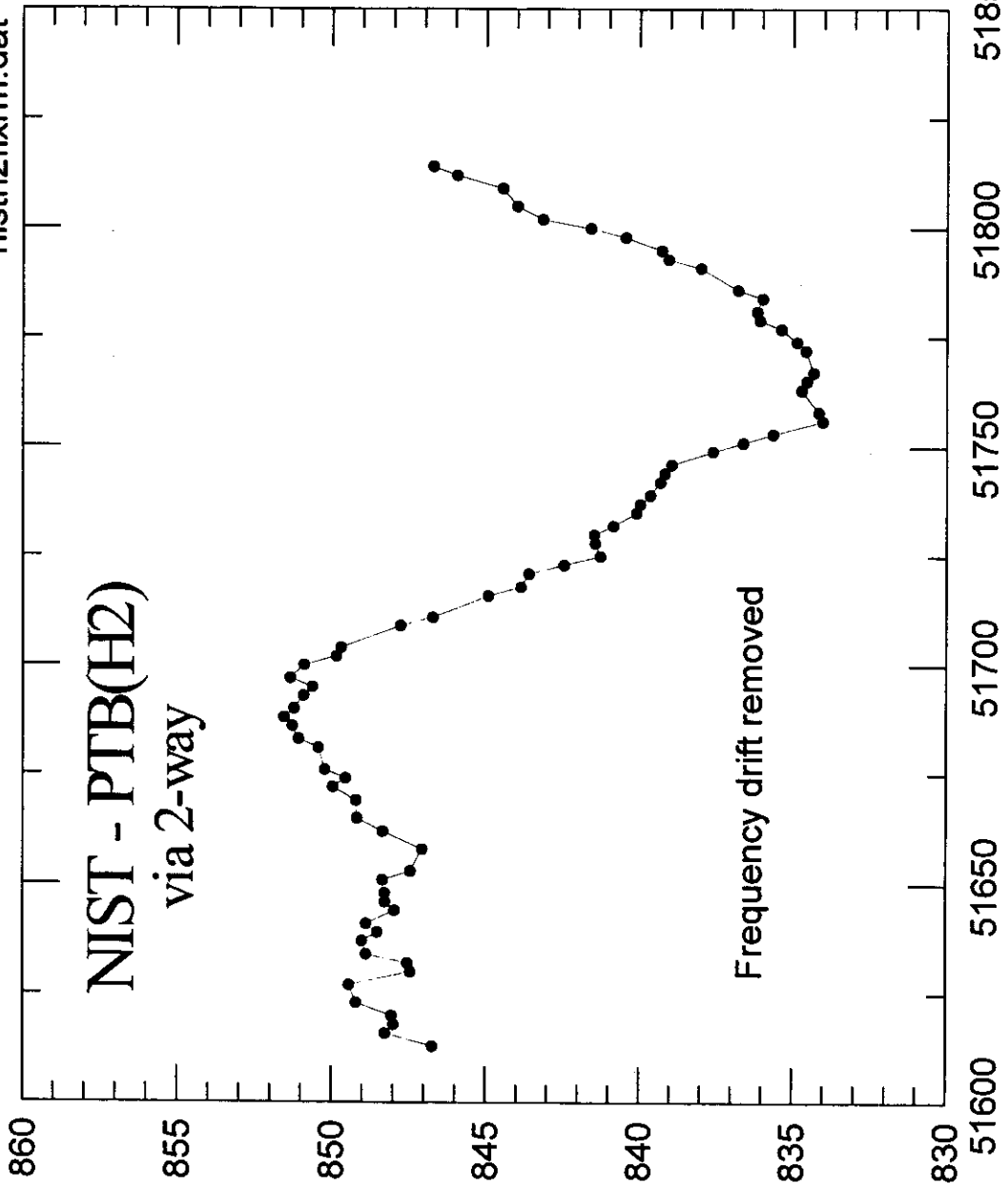


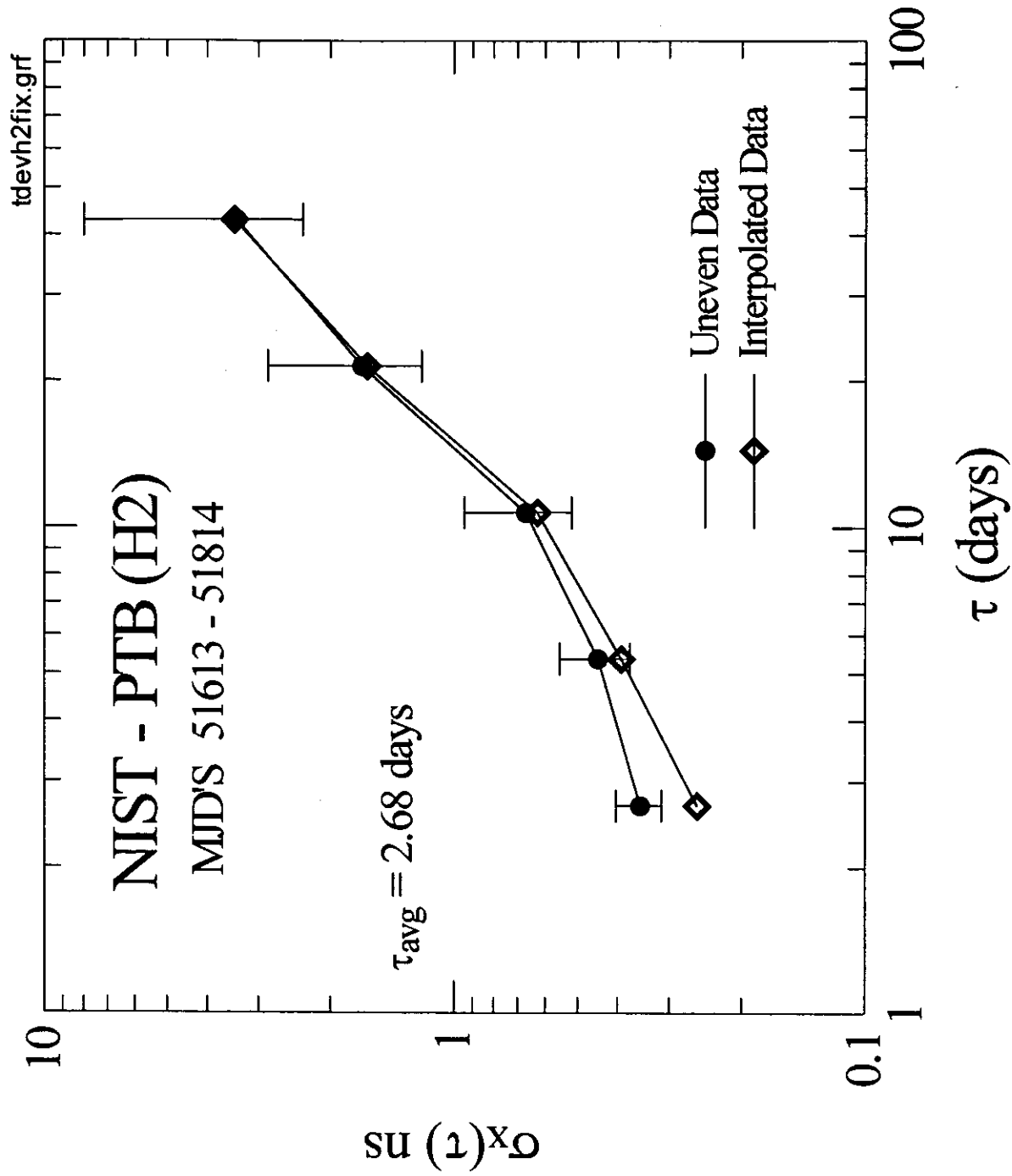
NIST - PTB(H2)  
via 2-way

Frequency drift removed

Time Difference (nsec)

MJD







NIST - PTB (#2)

### TWSTT - Carrier Phase GPS

51579-51609

