



# NIST STATION REPORT

TWSTFT Working Group Meeting

November 16, 2005

Delft, The Netherlands

# Not Much Has Changed

- New LNA and filter installed at satellite change (10.95-12.2 GHz, was 11.7-12.2)
- Equipment List
  - 3.7 meter Andrew dish, motorized
  - Miteq up-converter, U-9456-1-1K
  - Miteq down-converter, D-9408-1-1K
  - 1 watt HPA
  - SATRE 78, two channel, V4.9.67
  - SATRE 263, two channel, V4.11.15 (backup)

# Not Much Has Changed

- Equipment List (Continued)
  - System fully automated
  - Monitor 8 environmental parameters plus microwave power
  - Low temperature coefficient cables (70 MHz)
  - Heater in hub (keeps temperature above 0 C)
  - Clock source for TWSTFT is UTC(NIST)  
(steered maser ensemble)
  - Calibration via GPS

# Data Reduction

- 0.5 second time tag error corrected in 1 second data (average two adjacent points)
- Standard quadratic fit used on 120 one second data points
- 12 sessions per day
- Post ITU format file on ftp site  
clock.bldrdoc.gov pub/twstt/intlfmt  
(do not post 1 second data)