

# Laser Ranging Ground System

- **Progress**
  - One-way system delay measurement at NGSLR has been made and analysis is ongoing.
  - Independent timing test at NGSLR with Instrument Scientist was completed 1/12/2009. NGSLR passed.
  - End to End test with LOLA performed 1/21/2009. Everything looked good except for some data transfer and some lingering clock issues.
  - Requirements Verification document completed and turned in.
  - SCLK subroutines and documentation (for ILRS participating stations that will fire synchronously) have been delivered and are in use.
  - Herstmonceux and Zimmerwald have signed Agreements and are flowing test LR data, as is MLRS.
  - Training of operators at NGSLR has been ongoing but is ramping up.
- **Issues & Risks:**
  - Disruption to LRO-LR due to NENS to SCNS contract change.

# Global LR Ground Stations

	Scheduling &			Events/second
	Synch?	FireRate	in Earth Window	Participation
NGSLR	YES	28Hz	28	Prime
MLRS	NO	10Hz	2 to 4	Secondary
Zimmerwald	YES	28Hz	28	Accepted
Herstmonceux	YES	7 or 14Hz	7 or 14	Accepted
Mt Stromlo	YES	28Hz	28	Proposal
in				
MOBLAS-5&6	NO	5Hz	1 to 2	Design looks promising
Wettzell	Maybe	7 or 10Hz	2 to 7	Proposal in
Matera	NO	10Hz	2 to 4	Proposal promised
Grasse	???	???	???	Later perhaps

- Instrument Scientist (Xiaoli Sun) and LR Manager (Ron Zellar) are currently working with MLRS and will work with Mt Stromlo and Wettzell on damage concerns.

- Formal Agreement between Zimmerwald and LRO and between Herstmonceux and LRO have been signed.