

Laser Ranging Ground System

- **Progress**
 - Design completed for modifications needed for MOBLAS-5 (Australia) and MOBLAS-6 (South Africa) to participate in LRO-LR. Timing board is being setup in lab for testing.
 - One-way system delay measurement technique at NGSLR has been designed and parts are on order. MLRS and Herstmonceux are also working fire delay issue at their stations.
 - Independent timing test at NGSLR with Instrument Scientist awaits completion of the one-way system delay.
 - Document detailing the LR tests at NGSLR and results will be completed by end of January.
 - SCLK subroutines and documentation (for ILRS participating stations that will fire synchronously) are in final review before being sent out for Beta testing to R. Ricklefs at Univ. of Texas.
- **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	Selected & will range
Herstmonceux	YES	7 or 14Hz	7 or 14	Selected & will range
Mt Stromlo	YES	28Hz	28	Mostly likely will participate
MOBLAS-5&6	NO	5Hz	1 to 2	Will range if design works
Wettzell	Probably	???	???	Proposal promised
Matera	NO	10Hz	2 to 4	Proposal promised
<p>Grab Instrument Scientist (Xiaoli Sun) and LR Manager (Ron Zell) are currently working with MLRS, Zimmerwald, and Herstmonceux to ensure stations range in configurations that will not damage LOLA.</p>				

- Formal Agreement between Zimmerwald and LRO has been sent to Zimmerwald for signing. Draft Agreement has been sent to Herstmonceux.