

E12 Report

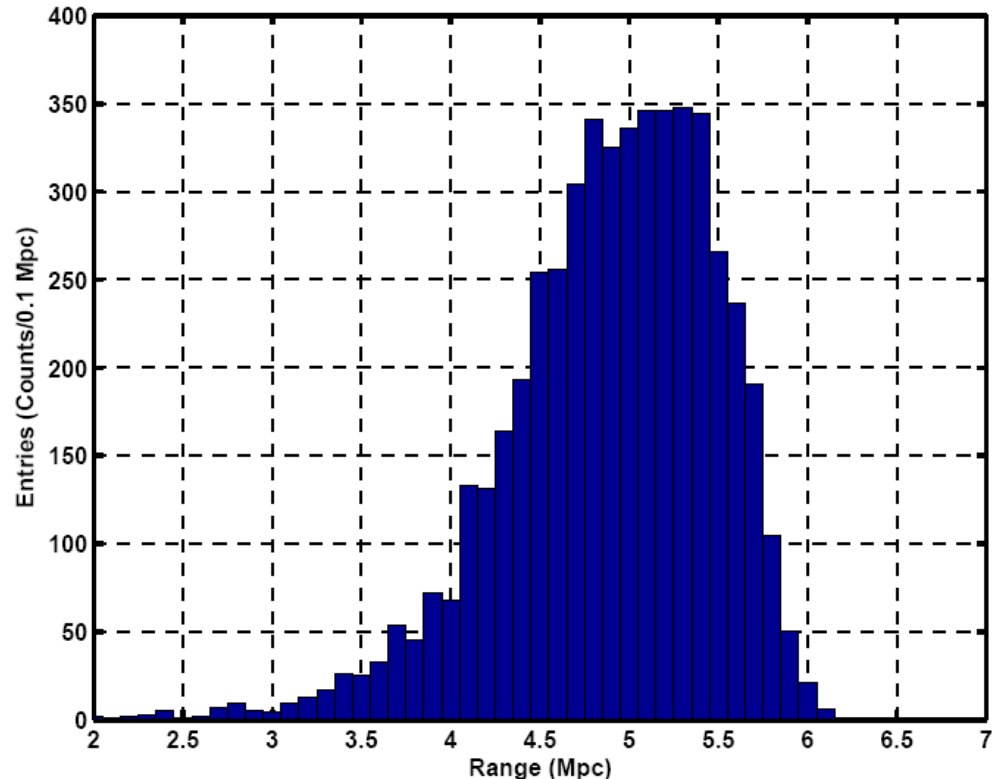
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Duty Factor

- L1 Duty Factor **62.6%**. Longest Lock **8.09** hours. (**UP** ~75%, longest ~11 hrs.)
- Coincidence times:
 - L1H1 40.7%
 - L1H2 47.3%
 - L1H1H2 37.1%
 - Details at:
<http://www.phys.lsu.edu/faculty/gonzalez/E12LockStats/>

Inspiral Range

- Mean = 4.9 Mpc
- STD = 0.6 Mpc
- Many DMT data dropouts.
- New monitors for other searches show sensitivity in different ways.



Lock Losses

- Equipment Failures:
 - NPRO temperature -> reamed.
- Enviromental:
 - Earthquakes, On-site traffic. X-end 12Hz, Wind & Rain, Trains(?).
- Operations:
 - Injections ~ 12 hrs., Wrong settings.
- Interferometer:
 - WFS instabilities, AS_I servo saturations, backscattering from QPDs, PDs etc.

Issues to Address

- PEM channels:
 - Missing some accelerometers and Magnetometers.
 - Will we get some facilities channels into frames?
 - Weather Data?
- RM low-frequency motion
- AS photo-diodes rework (Rana, Matt ELOG 6-Feb)
- X-end noise
- Backscatter reduction.
- WFS stability
- HEPI improvements:
 - Resonant Gains?
 - LSC feedback?
- DMT data dropouts.
- CDS machine configuration.