



Wednesday discussion

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Science with Giant Telescopes

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Next steps – I

- Generate meeting report
 - Key audiences: Decadal Survey, NSF, general community
 - Moderators to coordinate with speakers to write summaries of discussions
 - Use cases: 18 July (will contact you with format details by end of week)
 - NOAO to collect and produce report



Next steps – II

- National GSMT Design Reference Mission (DRM)
 - As requested by NSF
 - NOAO project with GMT/TMT collaboration as necessary
 - Work-in-progress
 - Summaries of technical capabilities
 - Exposure Time Calculators (not instrument simulators)
 - Description of key science cases
 - With System perspective as appropriate
 - Operations Concept Definition Document
 - Define community needs, desires, costs
 - With community participation (TBD)
 - Mock call for proposals?
 - Input for Design Reference Science Plan (DRSP)



Possible discussion topics

What issues have we not discussed yet?

- At what level does US community outside of GMT and TMT partnerships support US federal involvement in one or more ELT projects?
- Assuming finite GSMT operations funding, what is right mix of science operations and development to maximize science impact over life-time of observatory?
- What is acceptable level of GSMT science operations services?
 - KPNO 4m circa 1990? Keck 2008? Gemini 2008? HST 2008?
 - What is acceptable level of data products and archive services?
- What GSMT operations mode(s) are most important?
 - Classical, remote, delegated, queue/service, other?
- What percentage of GSMT public access time be devoted to Large Programs?
 - 0, 10, 30, 100 ?
- What is optimal System balance between small (2 - 4m), mid (6 - 10m) and large aperture (GSMT) telescopes?
 - Public access? Integrated?