



Status of the Solar-Terrestrial Research Program & SHINE

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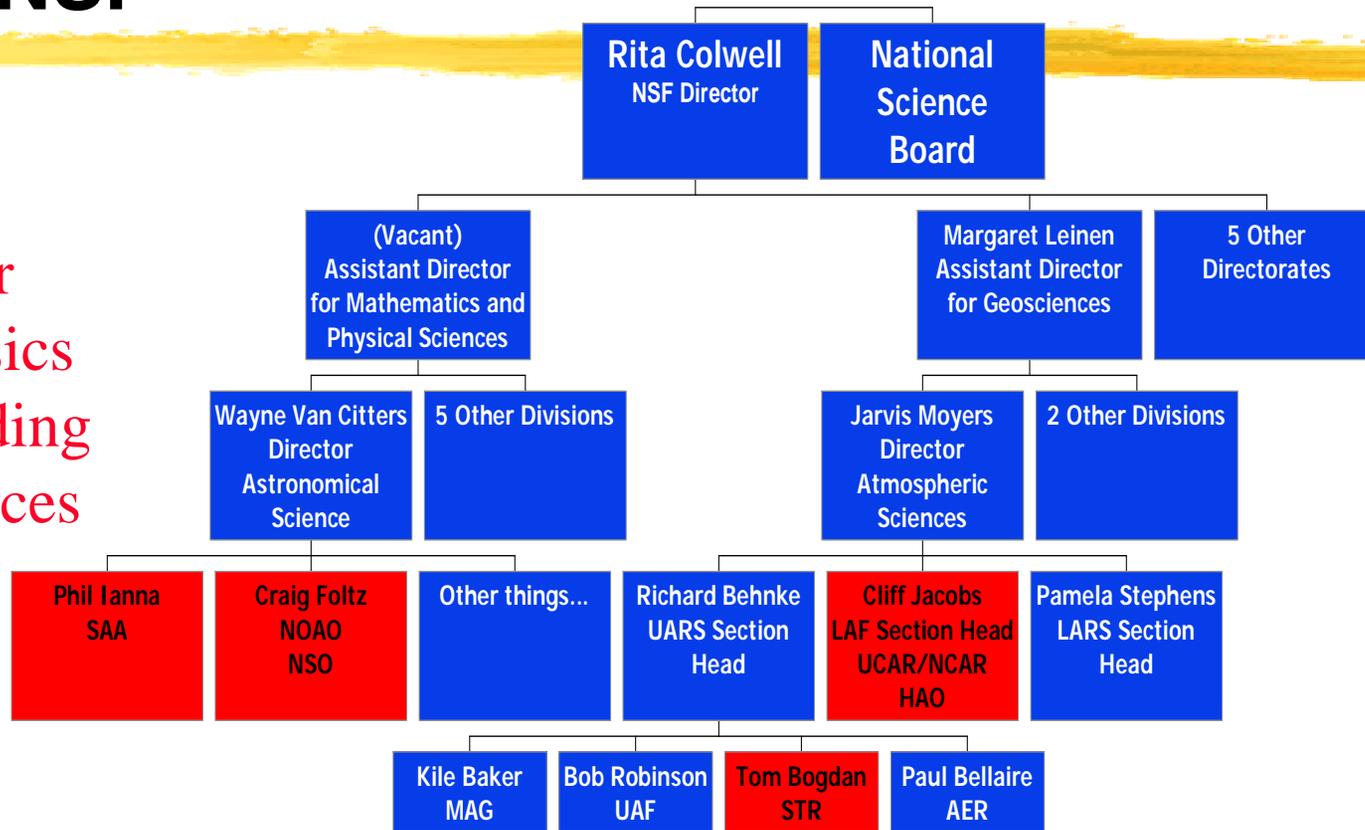
(Presented by Paul Bellaire)



Funding and the NSF

National Science Foundation

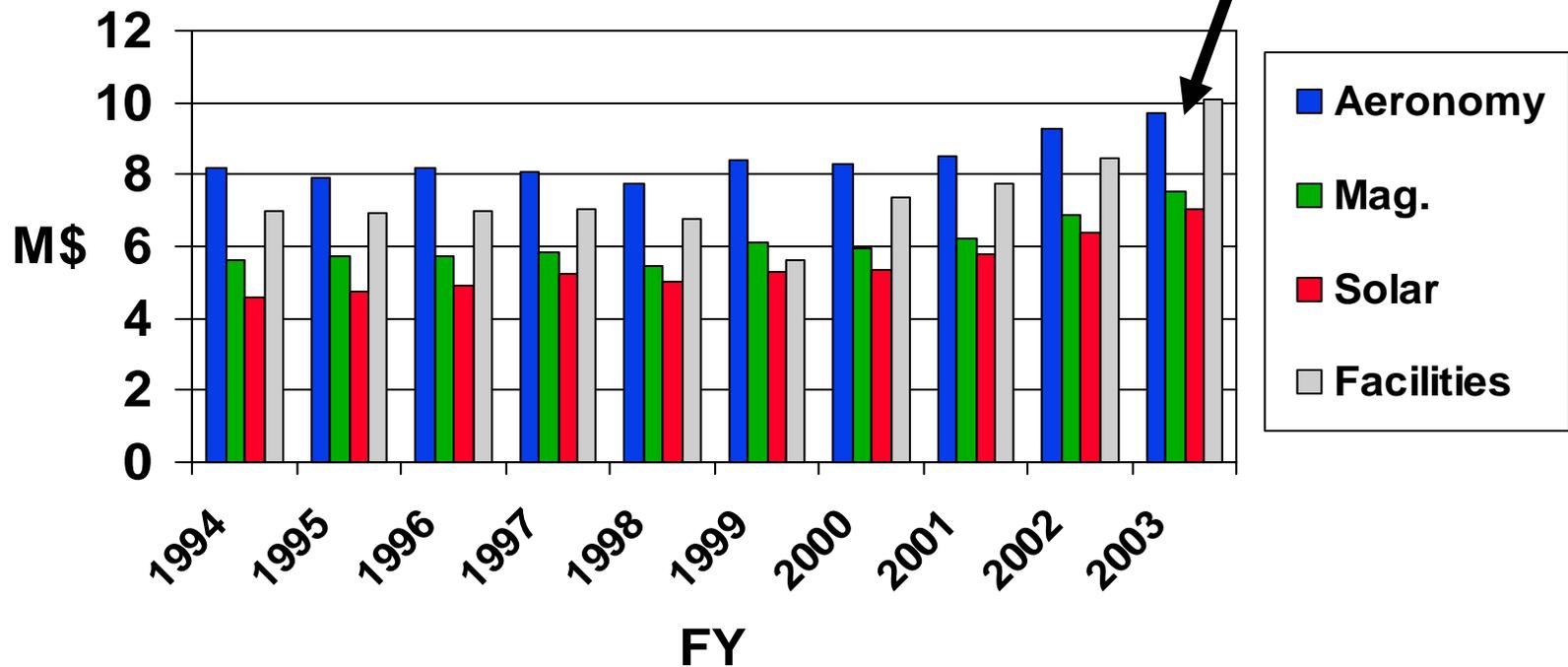
Solar
Physics
Funding
Sources





Upper Atmosphere Budgets

Annual Budgets **“Parity” Ahead?**



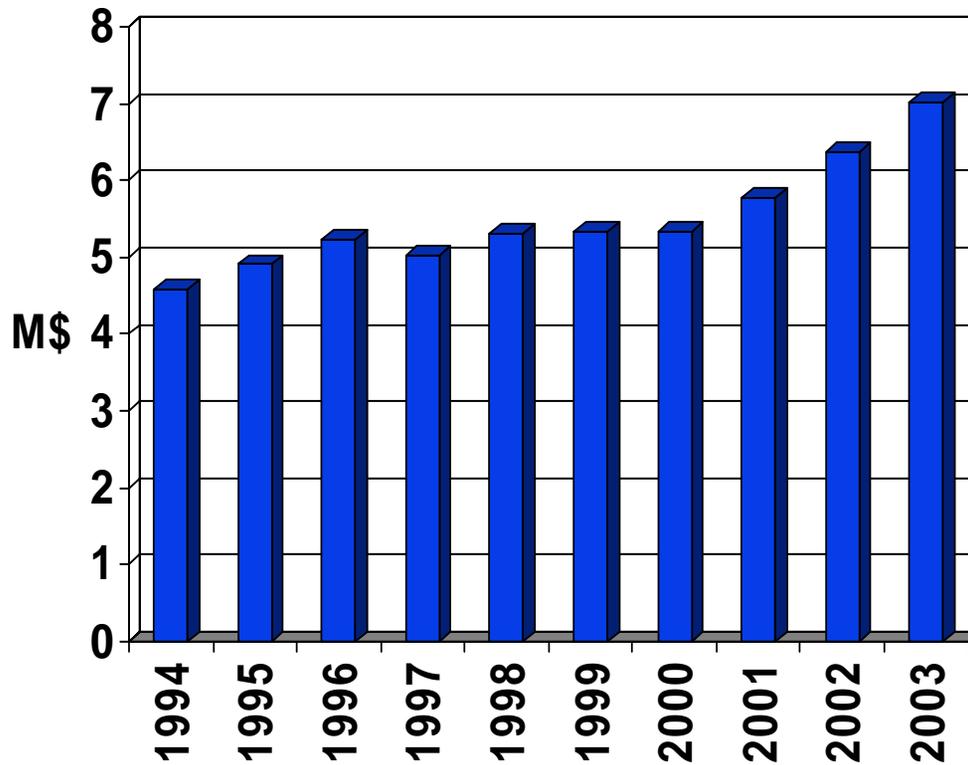


2003 % increases

- **Aeronomy: +4.8%**
- **Magnetospheric Physics: +10.2%**
- **Solar-Terrestrial Physics: +10.4%**
 - Extra increase to help initial SHINE funding
- **Upper Atmosphere Facilities: +19.9%**
 - Extra increase for AMISR (...finally...!)
- **Average increase in ATM (non-facilities): 9.2%**



Solar-Terrestrial Budget Detail



FY2003 up
10.4% from
FY2002

\$190K from
UARS reserve

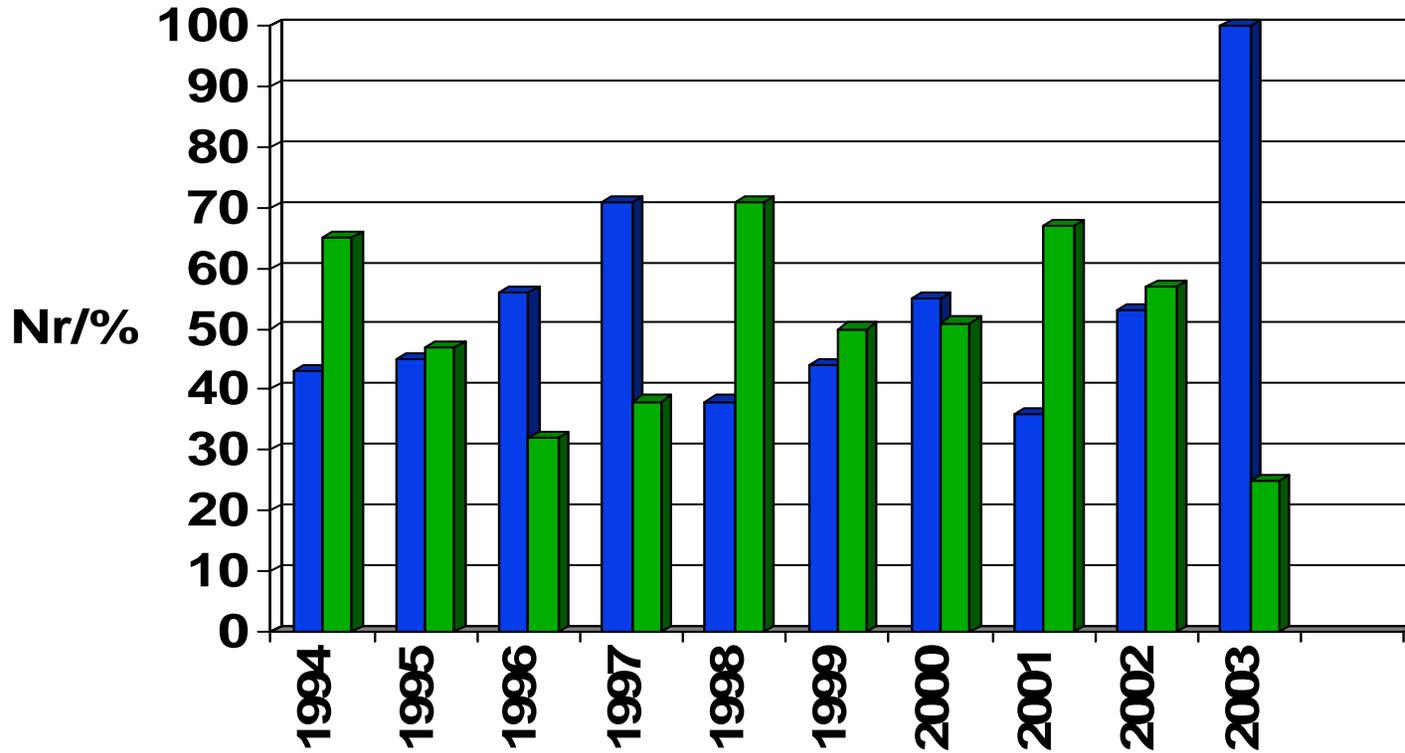
\$1.48M from
MRI (maybe...)

\$150K from
AFOSR/ONR

\$200K from DoE



Proposal Pressure Gradient





Current status of NSF budget for 2004

- **Administration request:**
 - Overall increase: +2%
 - Increase for core programs <1%
- **Congress Authorization**
 - Overall increase: +15%
 - Increase in core programs <15%
- **Congressional Appropriation? Still TBD**



Special Programs

- **National Space Weather Program**
 - New solicitation for 2004 unlikely
 - Next solicitation in 2005
- **Special Initiatives**
 - Information Technology Research (ITR)
 - **Collaboration in Mathematical Geosciences**
 - Requires participation of mathematician
 - Subject must include multi-scale processes and coupling
 - BioComplexity
 - Nanotechnology
- **Major Research Instrumentation (MRI)**
- **CAREER**
- **SHINE**



SHINE 2003 Competition

- 31 proposals submitted (up from 15 in FY2002)
 - 2 returned w/o review & 1 withdrawn
 - 2 for SHINE postdoc competition **BOTH FUNDED!!**
 - 1 collaborative
- 10 proposals have been recommended for funding (38% success rate – down from over 46% last year).
- Total FY2003 funding: \$867K (up from \$448K in FY2002...net program currently at \$1.3M/yr)
- FY2004 competition unlikely



National Space Weather Program

- **\$200 K from AFOSR and \$100 K from ONR**
- **Total funds available: ~\$1.6 M**
- **Proposal Deadline was Jan 16**
 - **Total number of proposals: 50**
 - **16 AER, 2 AER/MAG, 16 MAG, 16 STR**
- **4 STR proposals will be recommended for funding**
 - **~25% success rate (down from 60% in FY02)**
 - **Total first year funding (STR): \$300K (down from \$659K in FY02)**



Reviewers



The return rate of reviews solicited for STR proposals is (**by far!**) the lowest in ATM (~50%), and probably in GEO as well.

My goal was one request for 12 month period per reviewer.

Shameful performance!



Faculty Development in the Space Sciences

- Lanzerotti Report calls for “bridged positions”
- ATM Advisory Panel Convened in November 2002 [D. Baker, C. Cattell, A. Charo, R. Cicerone, **L. Fisk**, R. Heelis, M. Hudson, L. Lanzerotti, **J. Leibacher**, M. Mendillo]
- Draft “Announcement of Opportunity” forwarded by ATM Director Jarvis Moyers to GEO Assistant Director Margaret Leinen for review and comment
- AST Director Wayne Van Citters calls for white paper on decline in faculty positions in solar physics [see **S. Keil** & **M. Giampapa** for details/input]
- Next steps to be determined
- **Stay tuned for breaking news...**



Summary

- Budget was up more than the UARS average
- Number of proposals was way up
- Success rate was way down
- I am cautiously optimistic that the next few years will be good ones
- **UARS & ATM are open to the “parity” argument**
- **STR Program Director Applications due 18 July**
- **So long, its been fun...**
- **...and don't even think about sending me any proposals to review!**