

Report to the *Unidata Policy Committee*

Clifford A. Jacobs
National Science Foundation
Division of Atmospheric Sciences
Head, UCAR and Lower Atmospheric Facilities
Oversight Section
4201 Wilson Blvd, Suite 775
Arlington, VA 22230



Outline

- **FY 2003 Appropriation**
- **FY 2004 Request**
- **Proposal – early comments**



National Science Foundation

Fiscal Year 2003 Appropriation



FY 2003 Appropriation

- Total \$5,344.69 million
(request \$5,036)
- Increase \$555.45 million
- % increase over FY 02 CP plan 11.6%

Appropriation reduced by 0.65%



NSF Budget Request by Appropriation Account

Millions of dollars

	FY 2002 Plan	FY 2003 Appr.	Percent Change
Research/Related Activities	\$3,599	\$4,083	13.5%
Education/Human Resources	\$875	\$909	3.9%
Major Research Equipment/ Facilities Construction	\$139	\$150	7.7%
Salaries/Expenses	\$170	\$190	11.9%
National Science Board		\$3.5	N/A
Inspector General	\$7	\$9	36.8%
Total, NSF	\$4,789	\$5,345	11.6%

Totals may not add up due to rounding.



NSF Budget Request by Directorate/Major Activity

	FY 02 Plan	FY 03 Appr.	Change	% Change
Biological Sciences	508.41	574.87	66.46	13.1%
CISE	514.88	582.24	67.36	13.1%
Engineering	472.32	534.06	61.74	13.1%
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Math & Physical Sciences	920.45	1041.17	120.72	13.1%
Social, Behavioral & Economic Sciences	168.79	192.31	23.52	13.9%
U.S. Polar Research Programs	229.74	253.33	23.59	10.3%
U.S. Antarctic Logistical Support Activities	68.07	69.00	0.93	1.4%
Integrative Activities	106.51	147.80	41.29	38.8%
Total, Research & Related Activities	3,598.64	4083.00	484.36	13.5%



MREFC

Project	FY 2003 Req.	FY 2003 Appr.
LHC	\$9.720 M	\$9.720 M
NEES	\$13.560 M	\$13.560 M
TCS & DTF	\$20.000 M	\$10.000 M
IceCube	\$0	\$24.700 M
ALMA	\$30.000 M	\$30.000 M
SPS – expansion	\$6.000 M	\$6.000 M
Earthscope	\$35.000 M	\$30.000 M
NEON	\$12.000 M	\$0



Reports/Studies Requested & Direction Given

- Report on accomplishments of mathematics research
- NAS - to develop process for prioritizing projects funded thru MREFC
- Make sure Smithsonian grant applications are welcome and given fair consideration
- Review of NSF's organizational, programmatic and personnel structures by NAPA (\$1 M with report in 60 days). Concern expressed:
 - Organizational and program structure
 - Balance between field driven and NSF driven science priority setting
 - Role of NSB
 - Personnel policies, e.g. IPAs
- New appropriation account established for NSB to maintain their independence



National Science Foundation

Fiscal Year 2004 Budget Request



R&D Budget Proposal (in millions of dollars)*

AGENCY OR DEPARTMENT	FY 2002 ESTIMATE	FY 2003 PROPOSED	FY 2004 PROPOSED	PERCENT CHANGE [†] 2003-2004
Defense	49,409	57,498	62,753	7.6
NIH [‡]	22,581	26,524	27,056	0.5
NASA	9,611	10,071	11,009	7.7
Energy	8,056	8,076	8,535	4.2
NSF	3,557	3,692	4,062	8.4
Agriculture	2,112	1,911	1,943	0.2
Commerce	1,376	1,304	1,190	-10.0
Homeland Security [§]	266	761	1,001	29.6
Interior	623	575	633	8.5
EPA	416	627	556	-12.6
Other	4,022	3,963	4,000	-0.5
Total	102,029	115,002	122,738	5.2

*Adapted from Office of Management and Budget and National Institutes of Health data; figures reflect rounding.

[†]Adjusted for 1.46 percent expected inflation.

[‡]A part of the Department of Health and Human Services.

[§]Previous-year budget figures for the Department of Homeland Security reflect combined totals of its previously separate components.

The new budget's research dollars reflect two main priorities:

- Protecting people in the United States against the threat of terrorism
- Strengthening the economy

-
John Marburger

§

We need to renew our science and engineering infrastructure across the board

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Rita Colwell



NSF FY 2004 Budget Request

- Total \$5.48 billion
- Increase over FY 03 request \$453 million
- % increase 9%

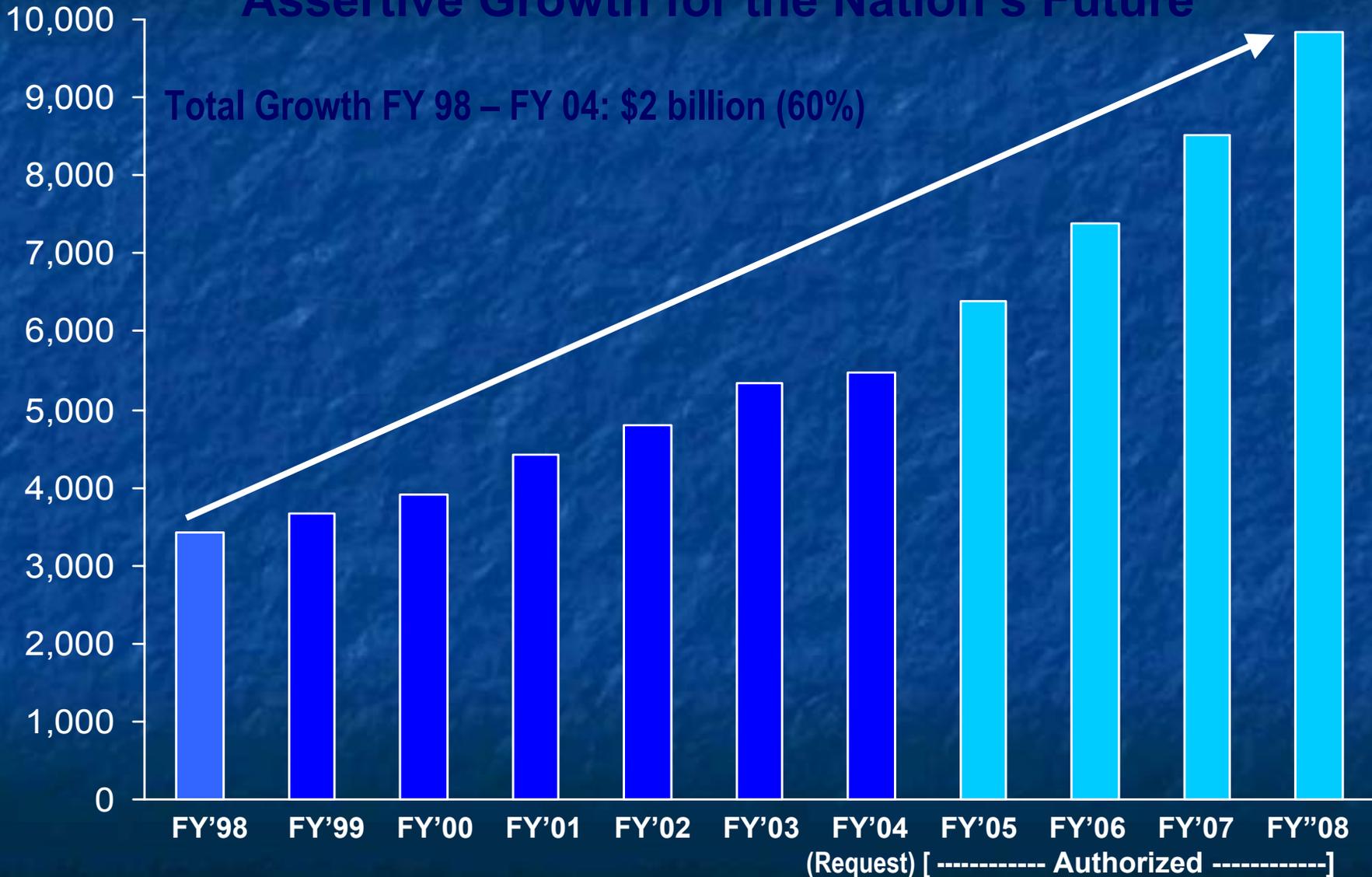


Appropriations for the National Science Foundation

FY 1998 - 2004

In millions of dollars

Assertive Growth for the Nation's Future



NSF FY 2004 Budget Request by appropriation account

Millions of dollars

	FY 2003 Appr	FY 2004 Request	Percent Change
Research/Related Activities	\$4,083	\$4,106	0.5%
Education/Human Resources	\$909	\$938	3.2%
Major Research Equipment/ Facilities Construction	\$150	\$202	34.7%
Salaries/Expenses	\$190	\$226	18.9%
Inspector General	\$9	\$9	0%
Total, NSF	\$5,345	\$5,481	2.5%

Totals may not add due to rounding.



NSF FY 2004 Budget Request

Priority Areas

	<i>Millions of dollars</i>		
	FY 2003 Request	FY 2004 Request	Percent Change
Biocomplexity in the Environment	\$79	\$100	26%
Information Technology Research	\$286	\$303	6%
Nanoscale S&E	\$221	\$249	13%
Mathematical Sciences	\$60	\$89	48%
Human and Social Dynamics	\$10	\$24	143%
Workforce for the 21st Century	n/a	\$9	n/a



Mathematical Sciences

- Fundamental mathematical & statistical sciences
- Interdisciplinary research linked to mathematics
- Modeling & managing uncertainty
- Modeling complex nonlinear systems
- Critical investments in math education



Human and Social Dynamics

- Research on decision making under uncertainty
- Creating new technology tools for social scientists
- Understanding large-scale transformation and agents of change
- Modeling human and social interactions
- Spatial social science



Tools: Getting the Job Done

**Major Research Equipment
and Facilities Construction** *millions*
\$202

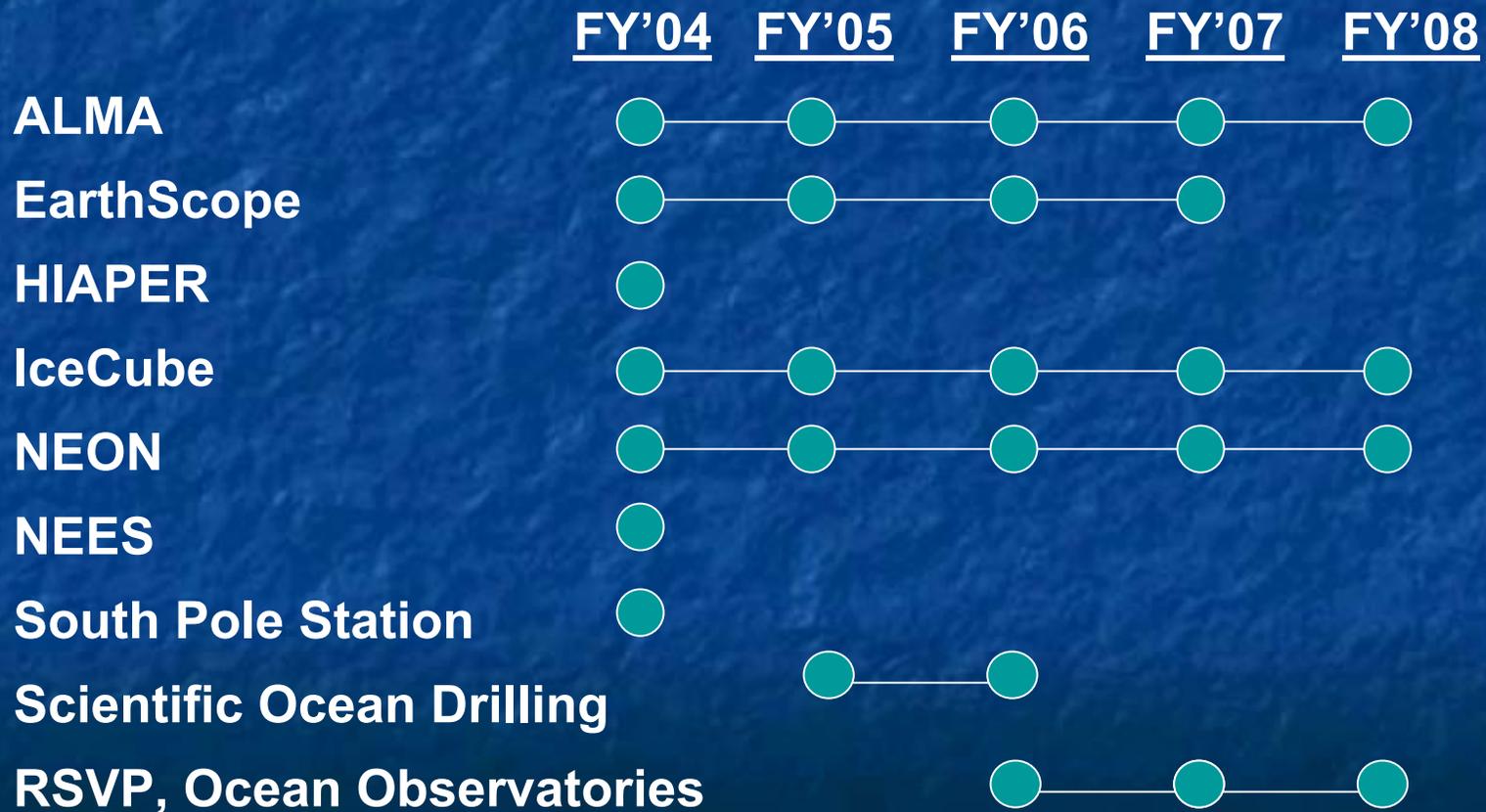
ALMA	\$51
EarthScope	\$45
HIAPER	\$26
IceCube	\$60
NEON	\$12
NEES	\$ 8
South Pole Station	\$ 1

Totals may not add due to rounding.

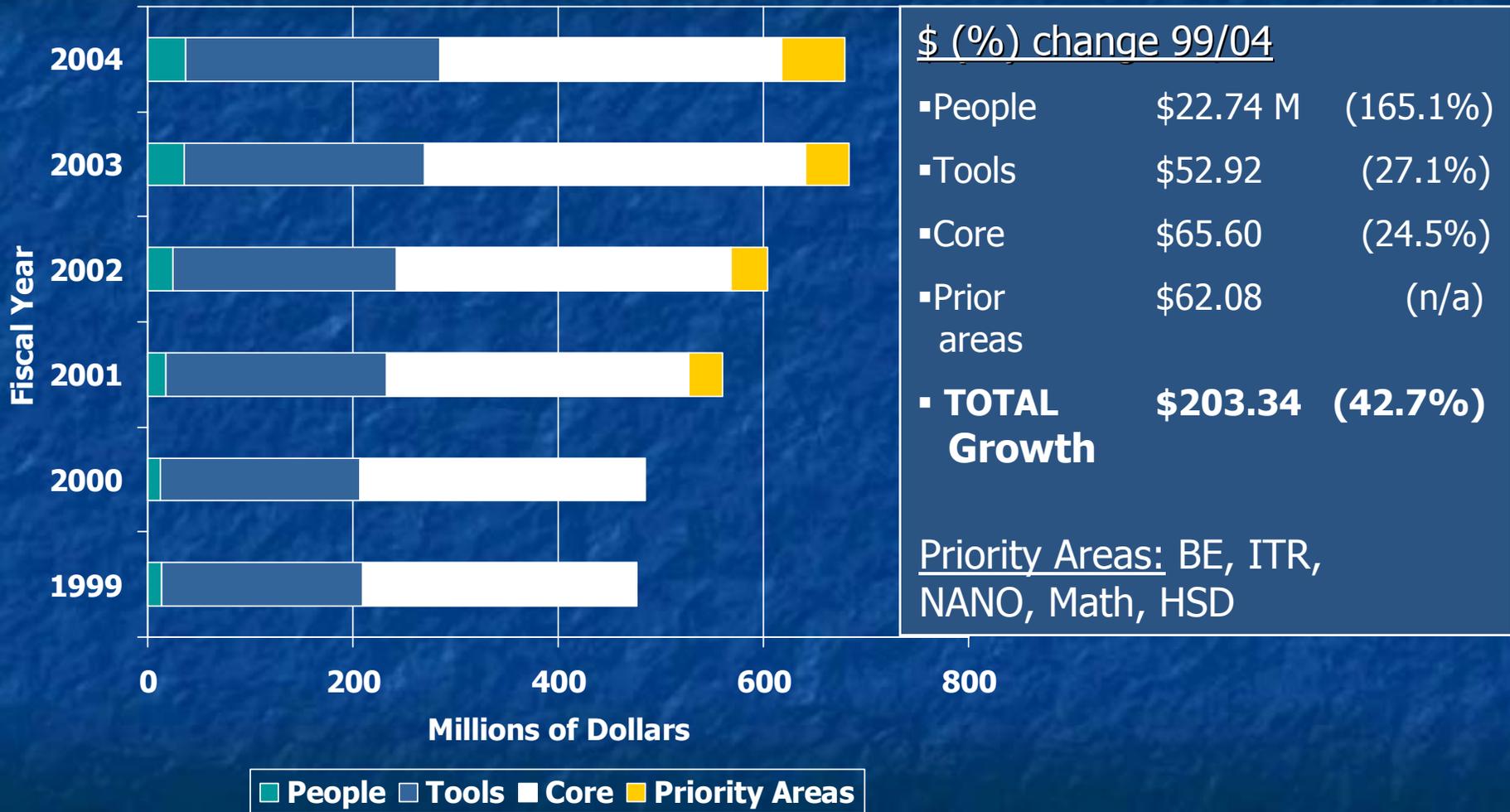


Tools Investment

Major Research Equipment and Facilities Construction Account



Change in GEO Budget



Questions or Comments

