A few summary presentation highlights with relevance to Ecosystem and Climate goals…

- Exploration for active volcanic and hydrothermal activity and associated ecosystems remarkably productive; ~175 new sites
- About 20% of the global spreading center and arc volcanic systems have been explored; more than 80% of the former by Vents and collaborators and 100% of the latter.
- SRoF discoveries lay the groundwork for measuring heat and chemical fluxes from an active deep volcanic eruption.
- Widespread deployment of hydrophones is beginning to yield a global perspective of the variability of the global ocean noise field.
- Observations of calcareous organisms in a naturally occurring environment reveal that they are highly stressed by show acidity caused by CO_2 venting.

NOAA PMEL Vents Program

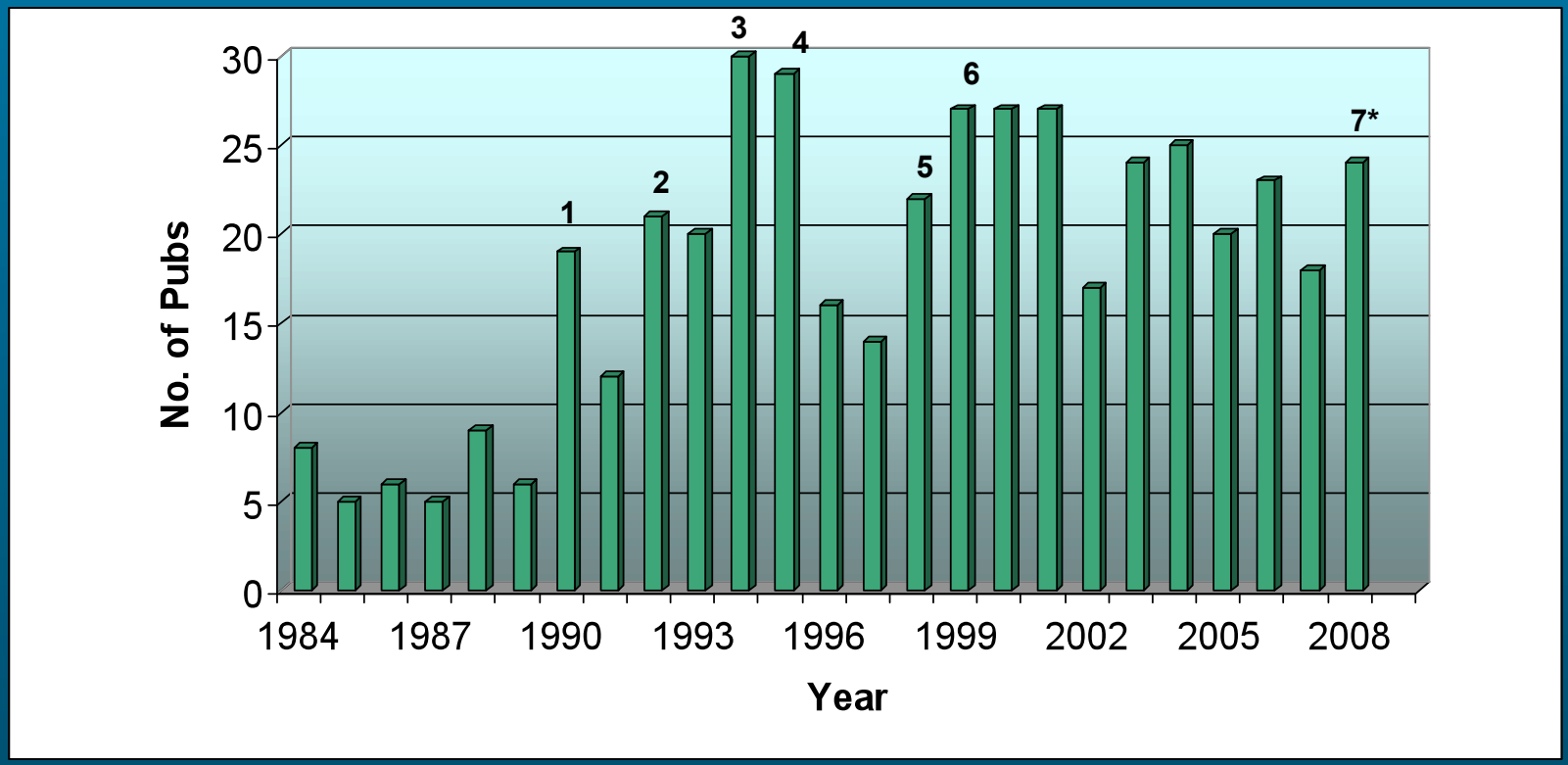
Ocean Ecosystems on Submarine Volcanoes

Priorities for the Next Five Years

- Continue to explore volcanic arc ecosystems and processes
- Exploit high pH sites for quantifying impacts of ocean acidification
- Continue and expand acoustic and seafloor monitoring; "exploration in time domain"
- Partner with OER in development of new ocean exploration technologies utilization of tele-presence

Backup Slides

Preeminence: Communication of Science Results Through Peer-Reviewed Publications



Special Issues

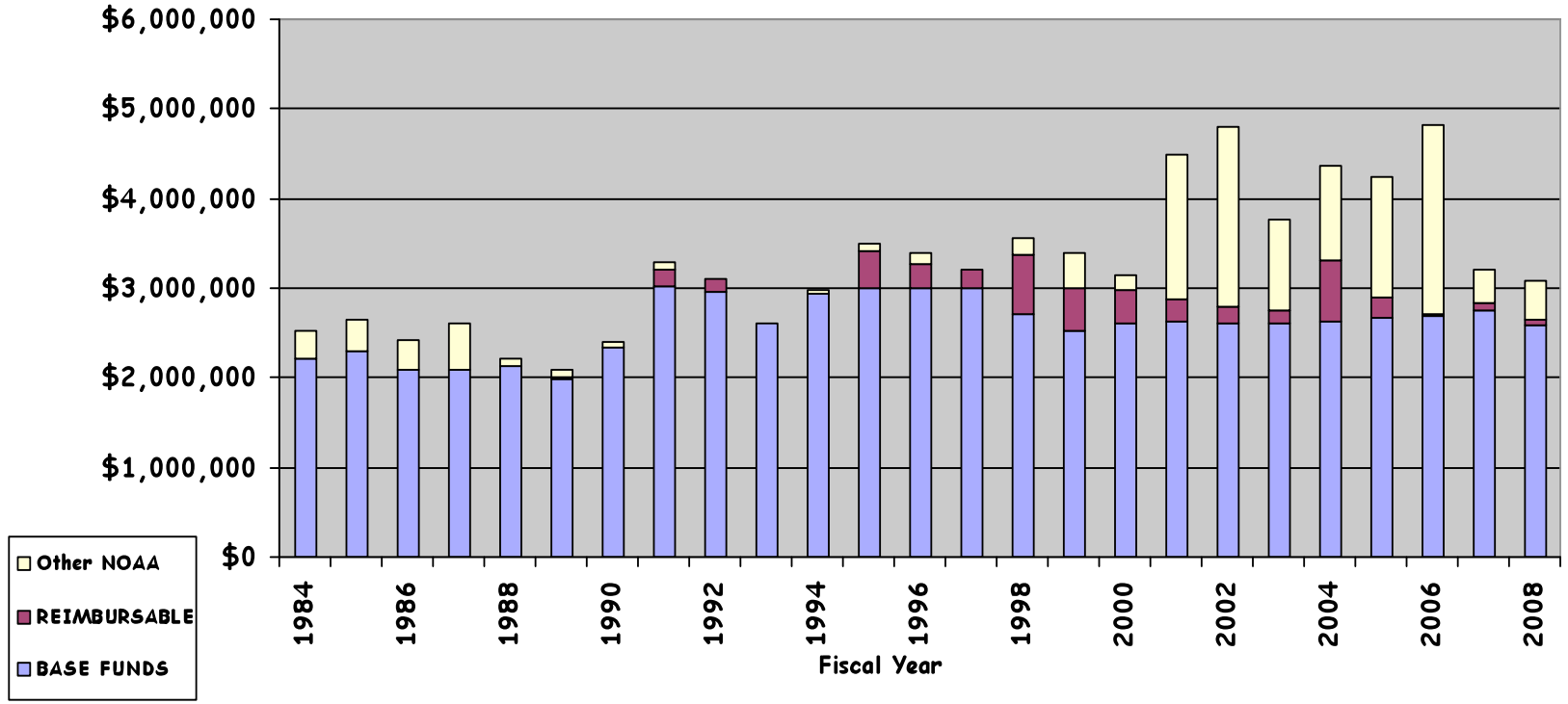
1: Axial	4: CoAxial	7. Mariana
2: JdF	5: Gorda	
3: SJdF	6: Axial	

Total number of peer-reviewed publications: 419 (average >17/year)

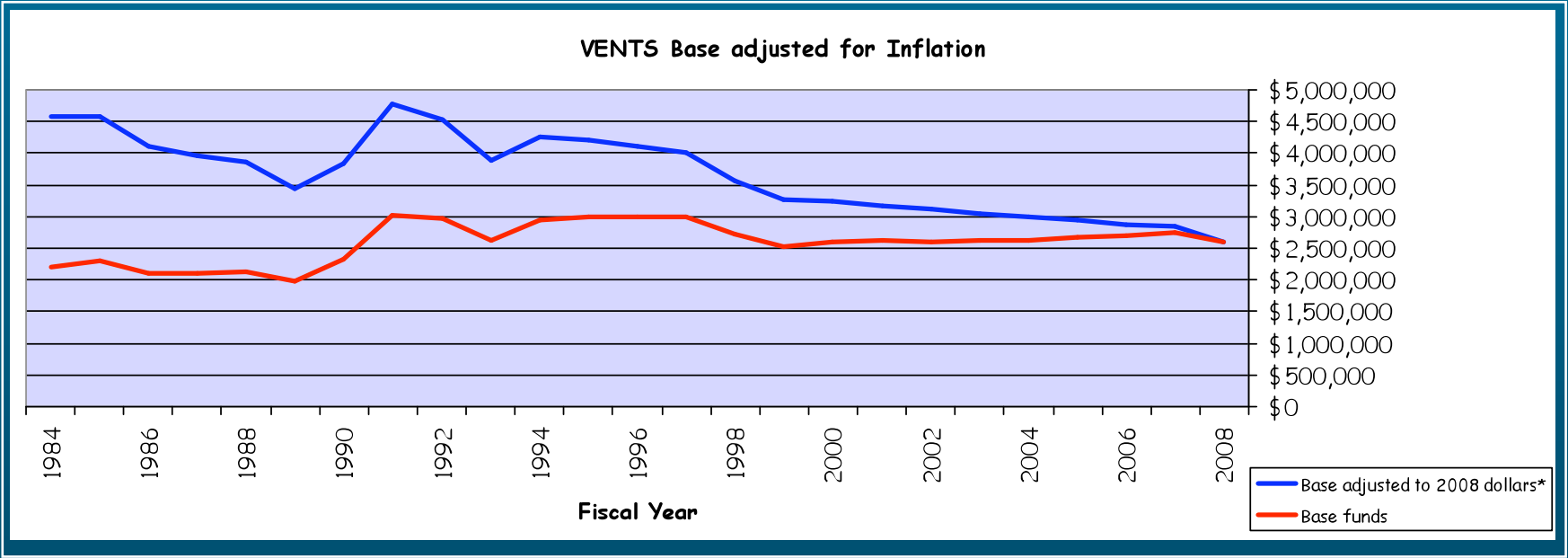
Currently 8 PIs (reduced during past 8 years by 4)

* 2008 total as of 7/1/08

Performance: VENTS Funding Profiles 1984 to Present



Vents Base Funding Adjusted For Inflation



Adjusted to 2008 dollars using the Consumer Price Index calculator (http://www.dol.gov/dol/topic/statistics/inflation.htm)