

## 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<sub>2</sub> venting.

## NOAA PMEL Vents Program

# *Ocean Ecosystems on Submarine Volcanoes*

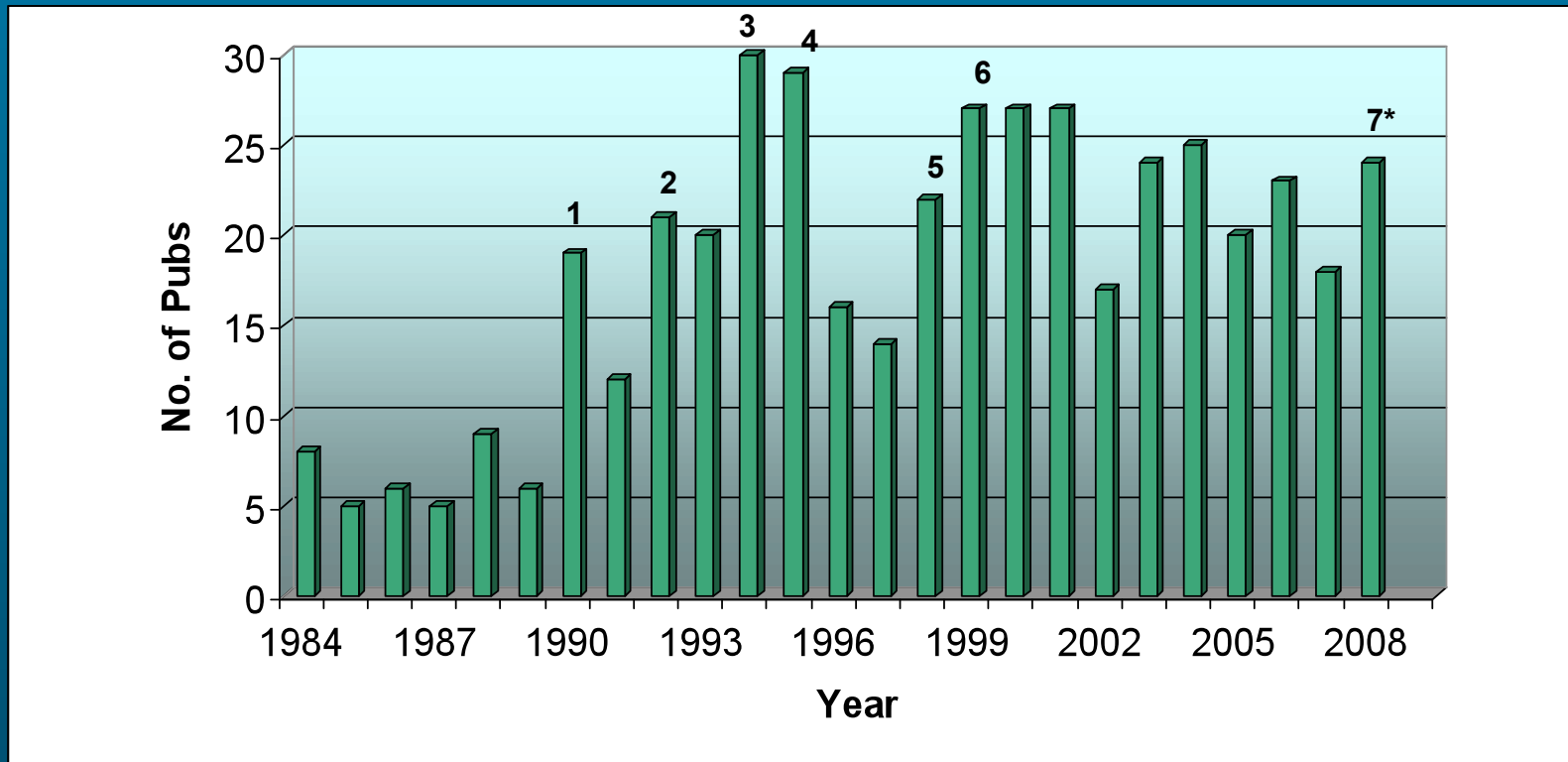
## Priorities for the Next Five Years

- ▶ 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   |            |

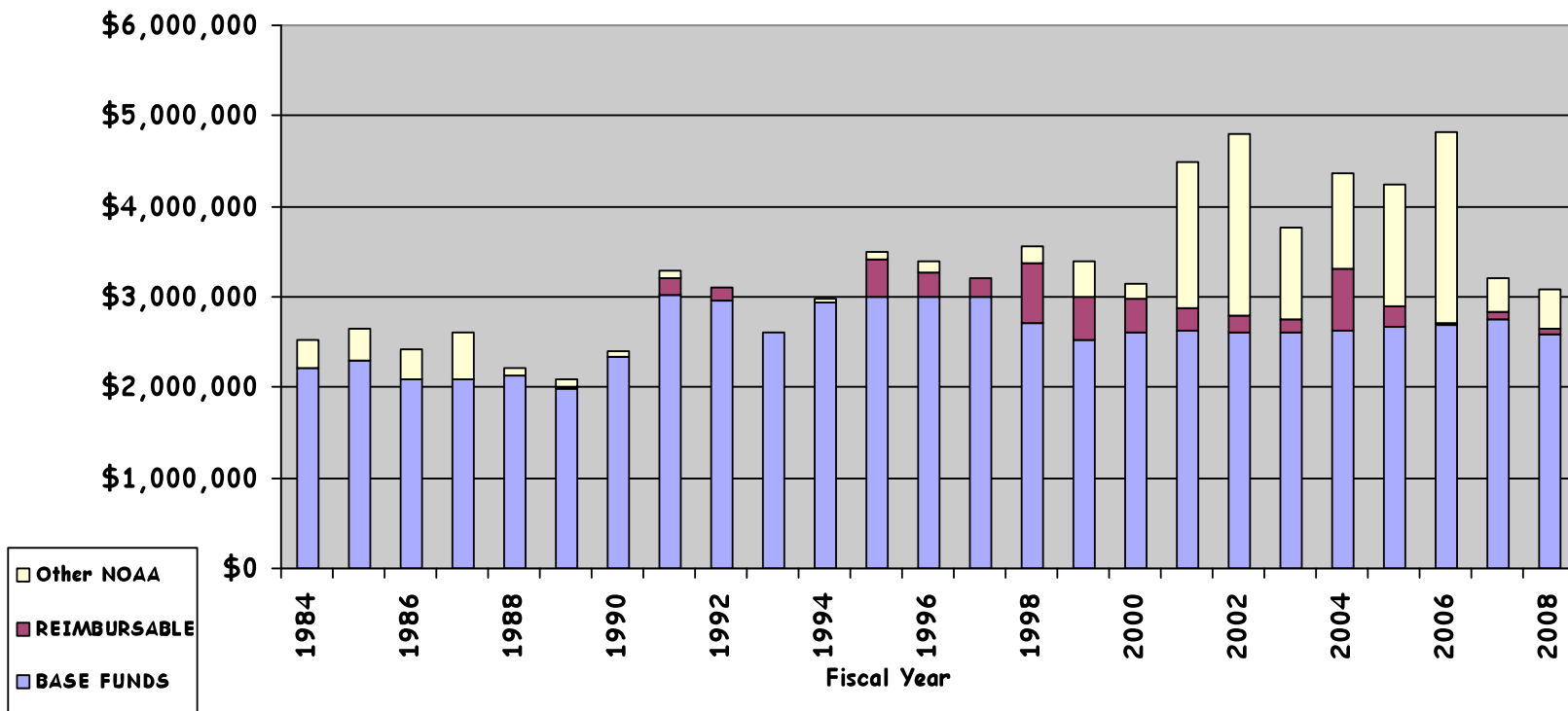
**Total number of peer-reviewed publications: 419  
(average >17/year)**

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

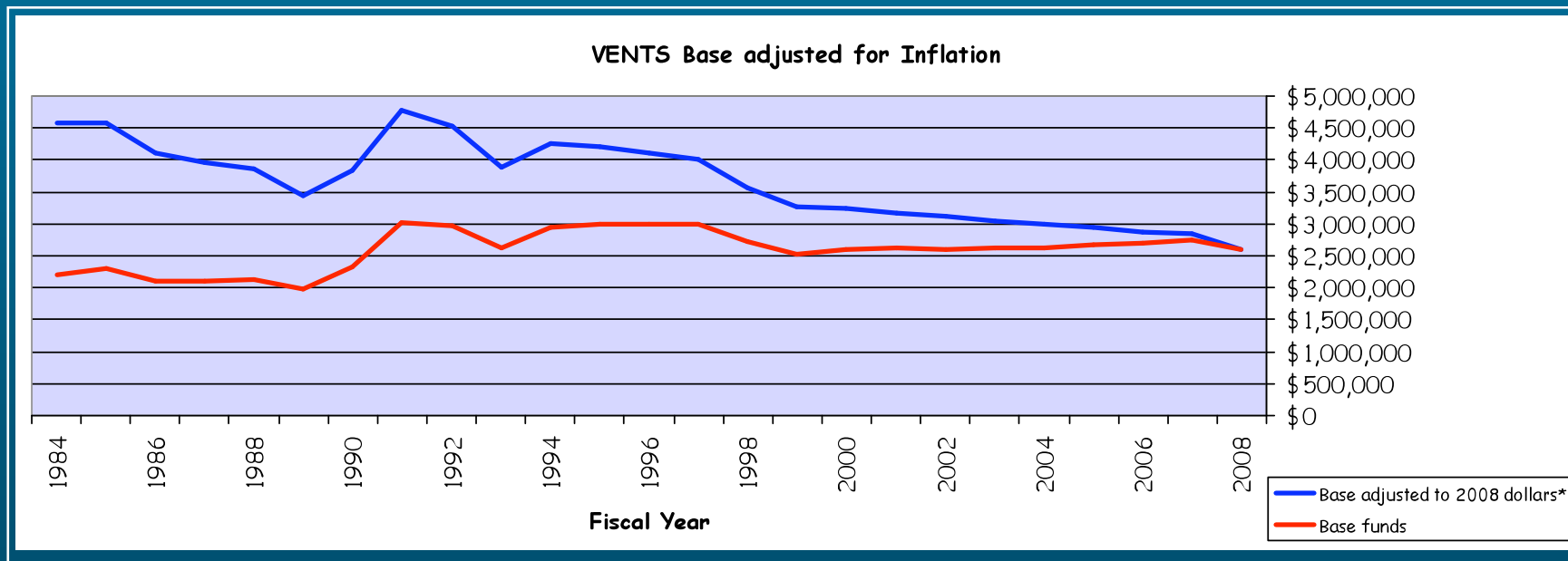
\* 2008 total as of 7/1/08



# 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>)