

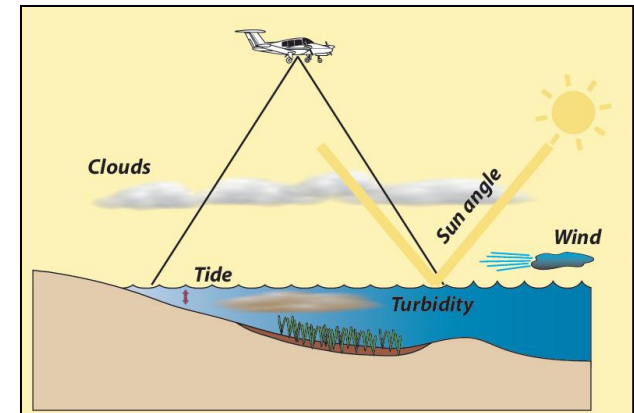
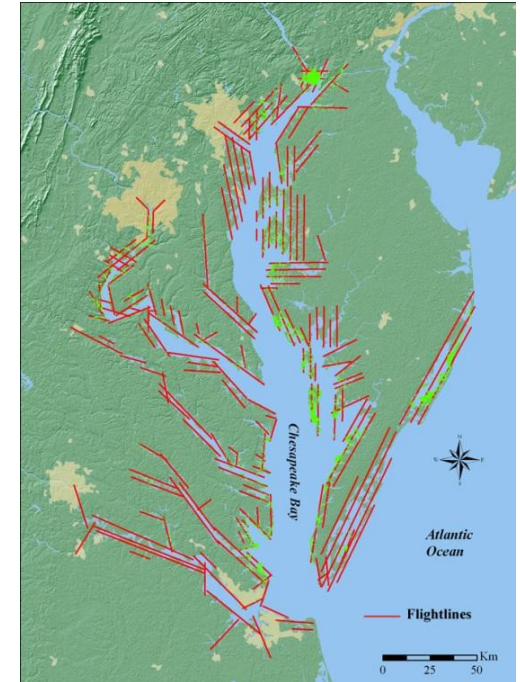
Chesapeake Bay Submerged Aquatic Vegetation Aerial Survey

**The funding history and future of this vital
annual bay-wide assessment**

June 13, 2013 CBP Management Board Briefing
Lee Karrh, CBP SAV Workgroup Chair
Jeff Horan, CBP Habitat GIT Chair

Chesapeake Bay Aerial SAV Survey

- Started in 1974, annually since 1984
- Annual assessment of SAV distribution and abundance in Chesapeake Bay, its tributaries, and the coastal bays
- Funding comes from multiple state and federal resource agencies with a significant match from VIMS
- Annual reports, maps and data are publically available on the VIMS website

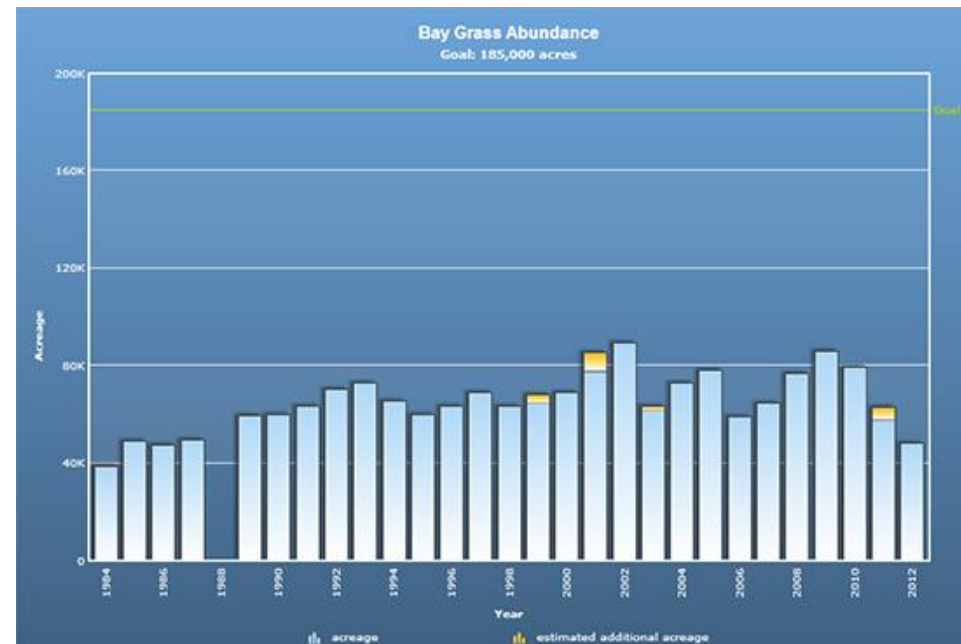
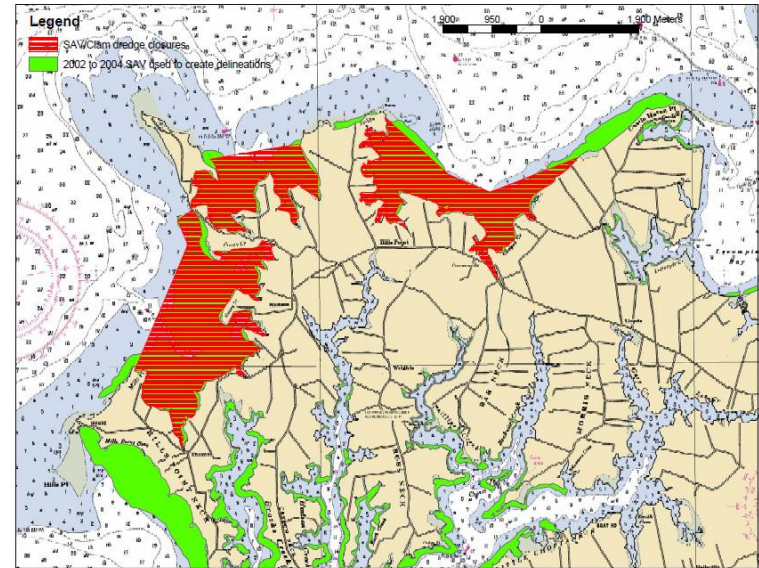


Multitude of Management Applications

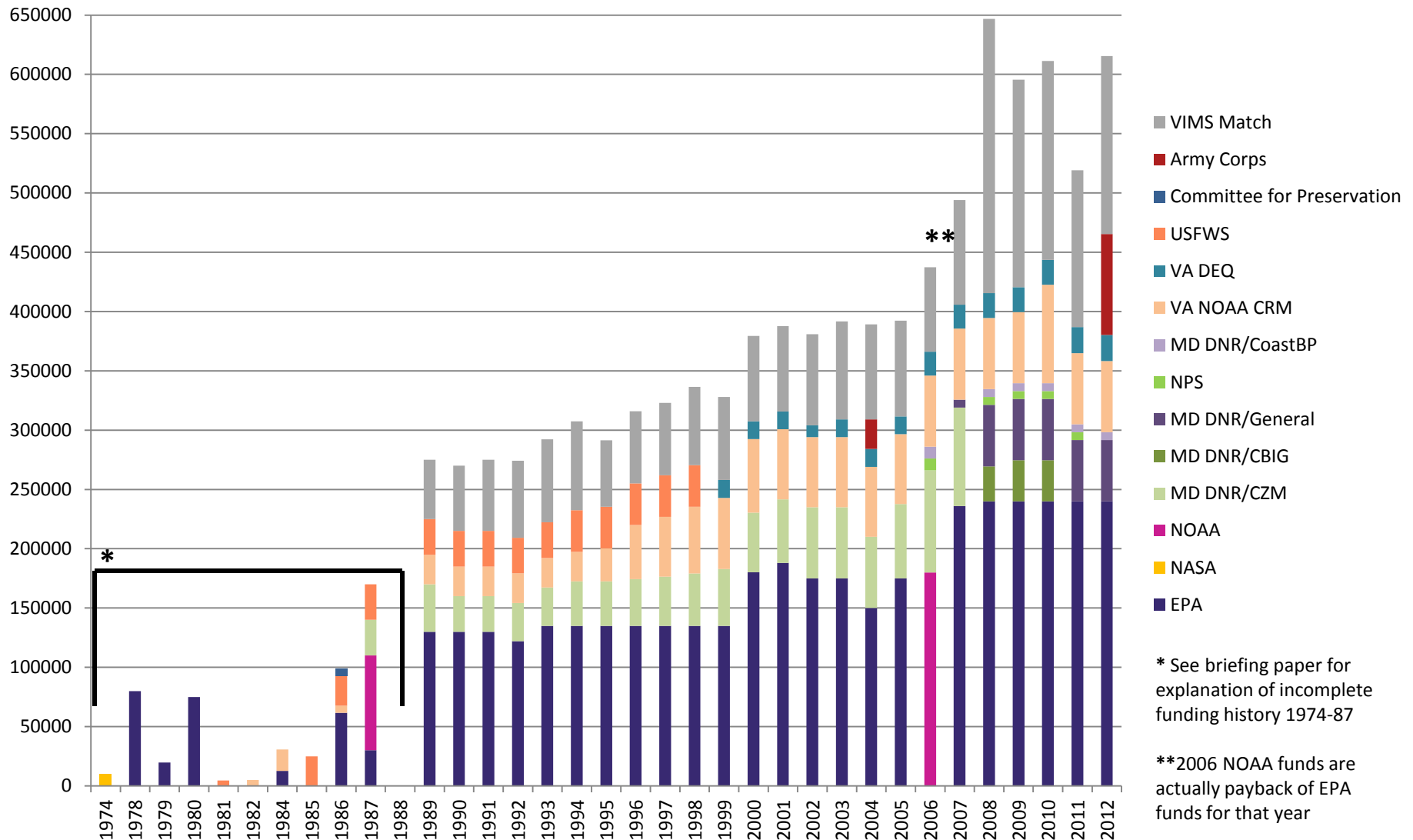
Agency/Organization	Management Applications
Federal resource management	Shoreline modification permitting, dredging
State resource management	Permitting, dredging, aquaculture decision making, SAV restoration targeting
State water quality regulatory agency	Water quality standards assessment; listing/delisting decisions on impaired water bodies
Counties	Permitting, dredging, shoreline management
Chesapeake Bay Program Partnership	Annual reporting to the public on health of Bay ecosystem, management effectiveness assessments
Non-Government Organizations	Public communication products, field trips, SAV plantings

Critical for Regulatory Agencies

- SAV aerial survey data used by federal—NMFS, Corps, USFWS, EPA—and states in making regulatory and resource management decisions
 - Permitting shoreline, dredging, and aquatic reef restoration activities
 - Managing placement of aquaculture structures and location of clam/crab dredging operations
 - Listing of impaired waters not achieving states' SAV acreage water quality standards regulations



SAV Aerial Survey Funding History



Contributions from agency partners with match from VIMS to fund the aerial survey from 1974-2012

* See briefing paper for explanation of incomplete funding history 1974-87

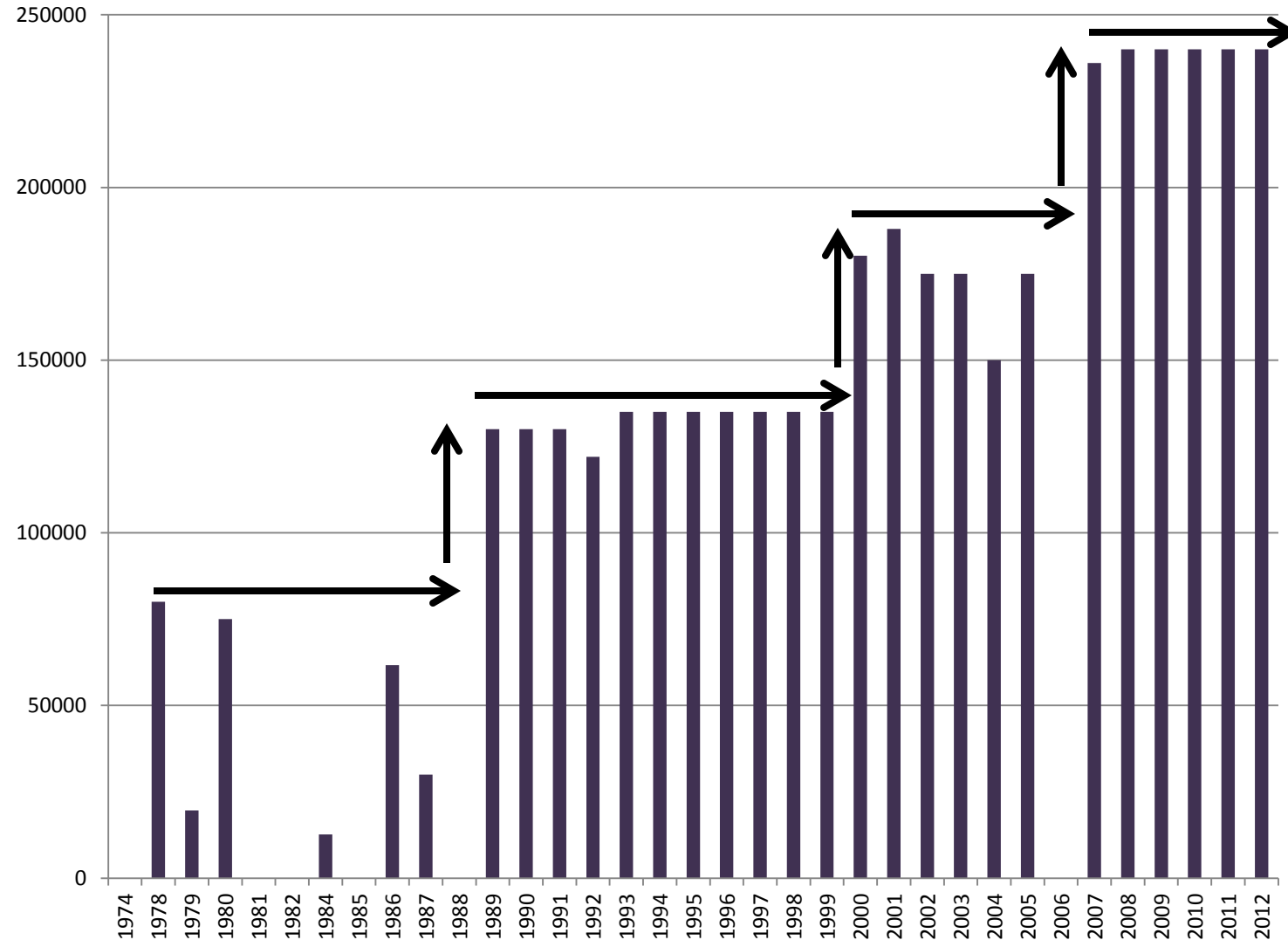
**2006 NOAA funds are actually payback of EPA funds for that year

Diversity of Funding Agencies/ Sources in the Past—14 Total

Funding Contributors to SAV Survey 1974-2012		
State	Federal	Other
MD DNR / CZM	EPA	VIMS
MD DNR / CBIG	NOAA	Committee for Preservation of Assateague
MD DNR	National Park Service	
MD DNR CoastBP	USFWS	
VA NOAA CRM	USACE	
VA DEQ	NASA	

Overtime, EPA has become the sole, consistent federal funding agency.

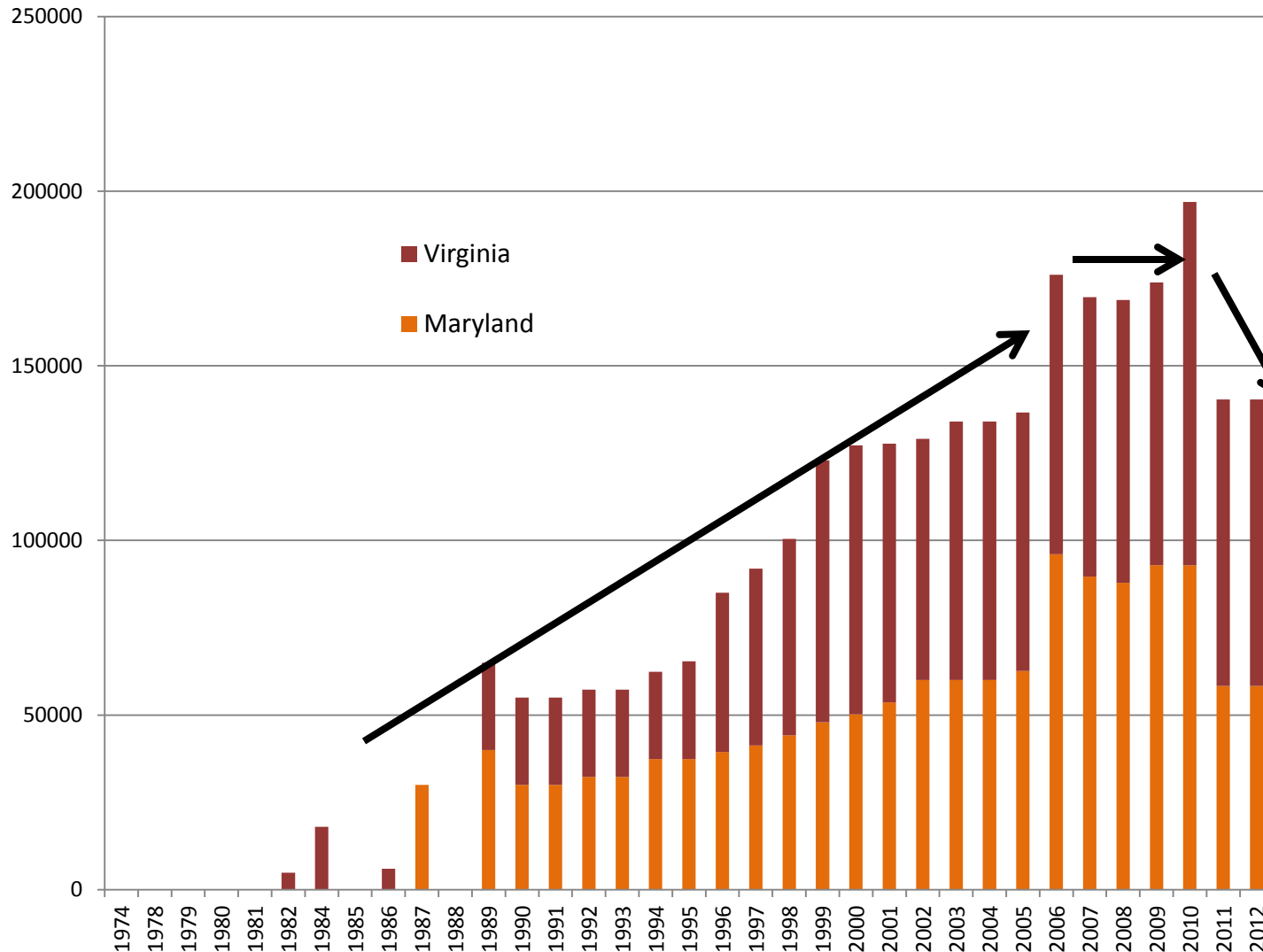
EPA Funding History



Key Findings

- EPA has funded the survey at \$240,000 level since 2008
- Re-competed, awarded a six-year cooperative agreement to VIMS in 2013
- EPA reduced its \$240,000 annual funding commitment down to \$200,000 in 2013

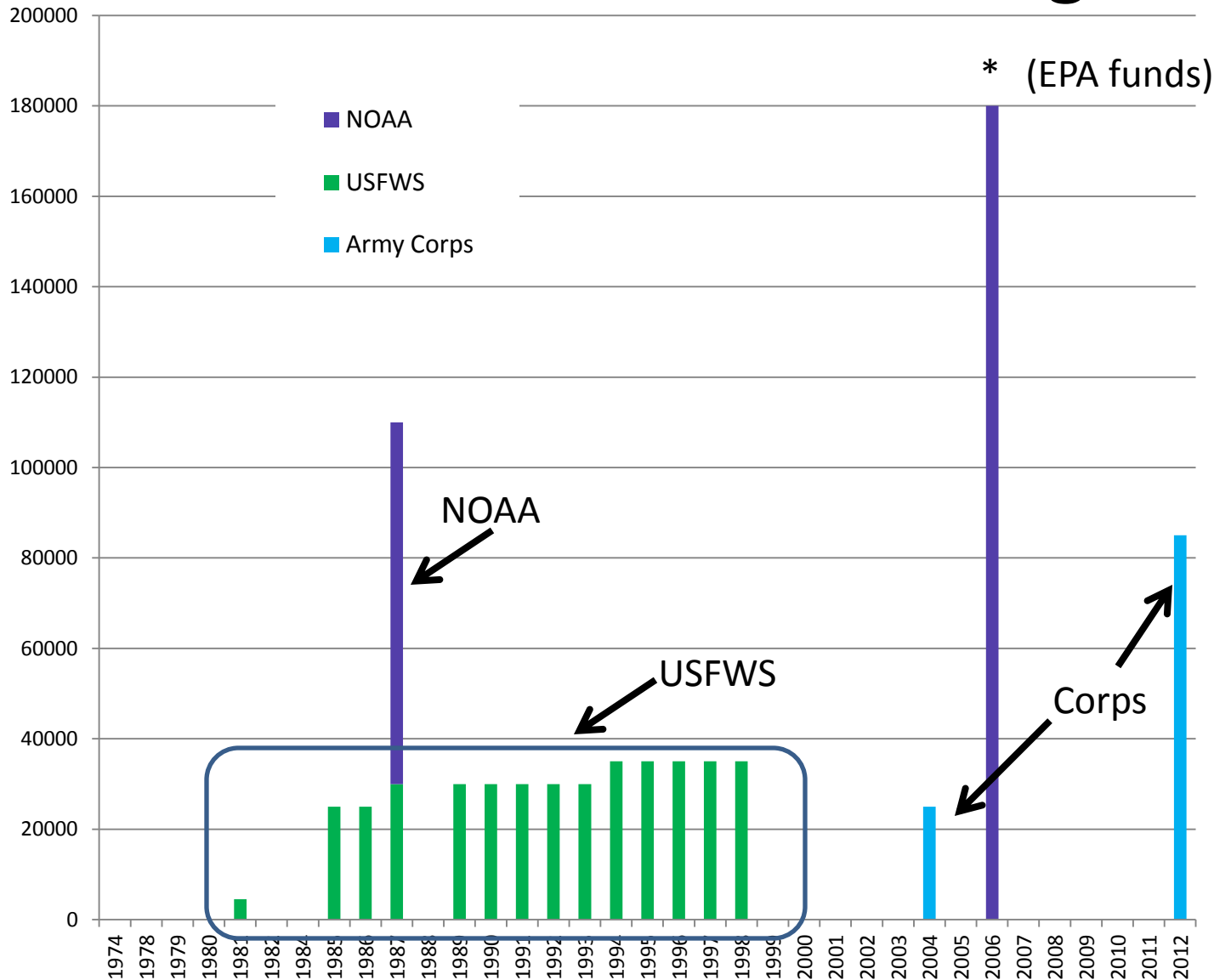
State Funding History



Key Findings

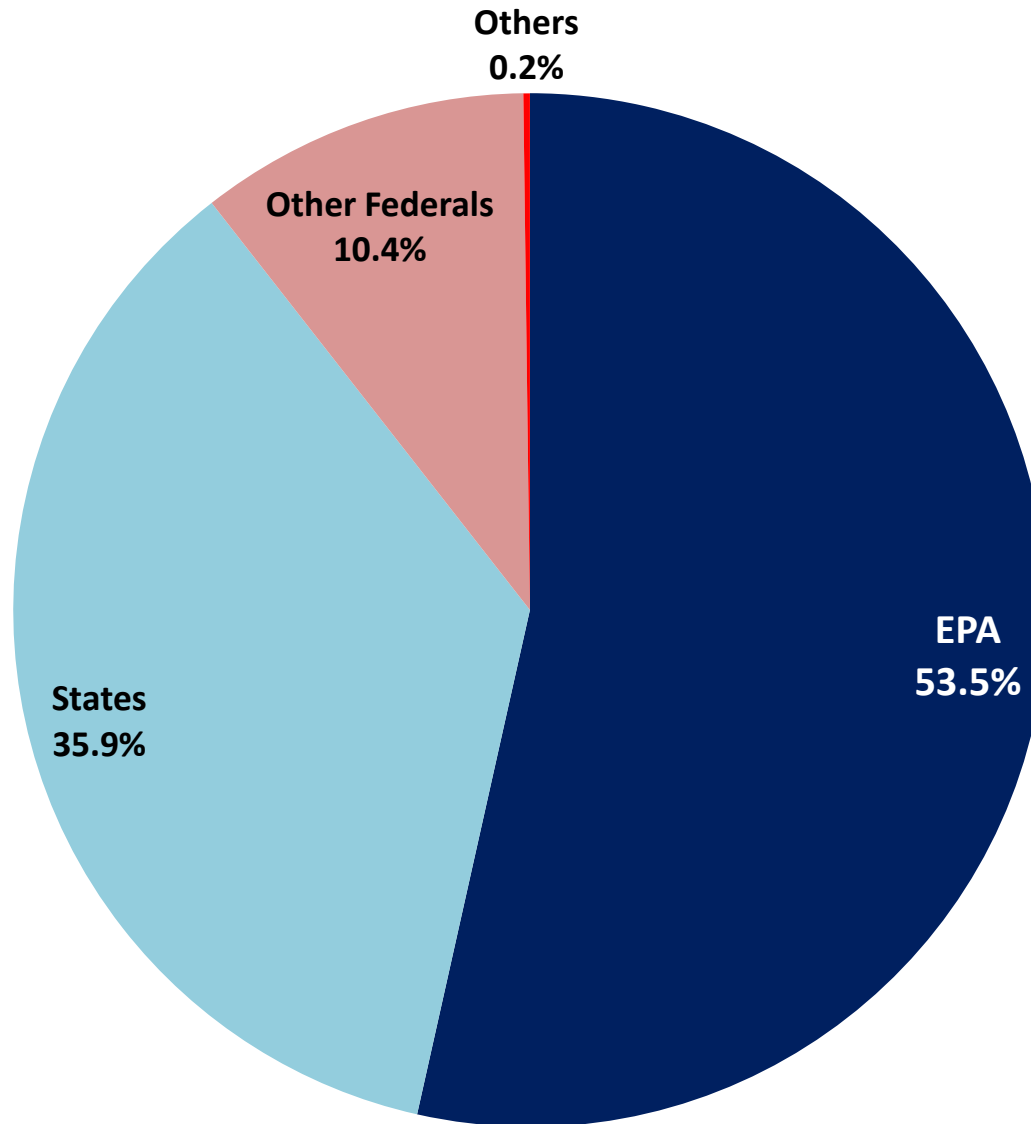
- Steady increase in funding commitment from 1985-2006
- Decline in funding 2011-present
- No increase in funds for foreseeable future

Non-EPA Federal Funding History



NOAA, USFWS, USACE funding contributions 1974-2012 (without EPA funds)

Contribution percentage over the years (1974-2012) from EPA, States, Other Feds, and Other agencies*

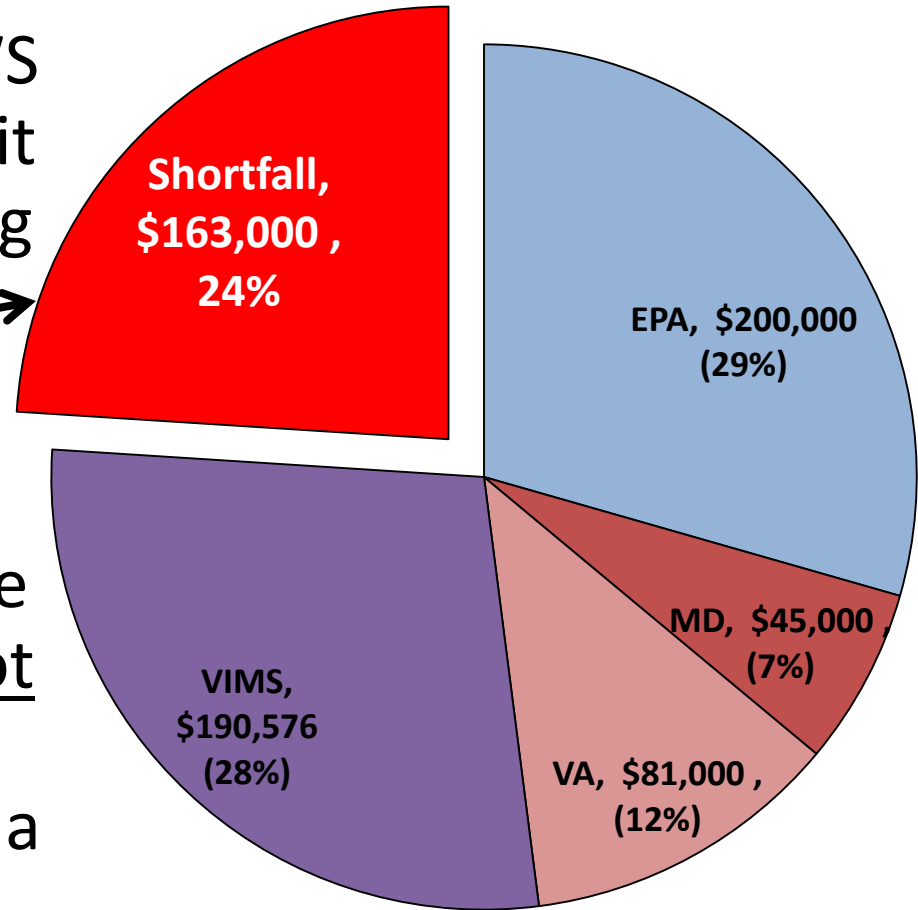


* Does not account for significant matching funds from VIMS every year.

1) Address 2013 Funding Shortfall

- Corps, NOAA, and USFWS must step up and commit to close the 2013 funding gap

▪ **\$163,000**



Existing Funding Commitments

2) Agree on Long term Funding Strategy