



VOS and SOOP: Sharing resources and filling gaps.

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VOS and SOOP Programs

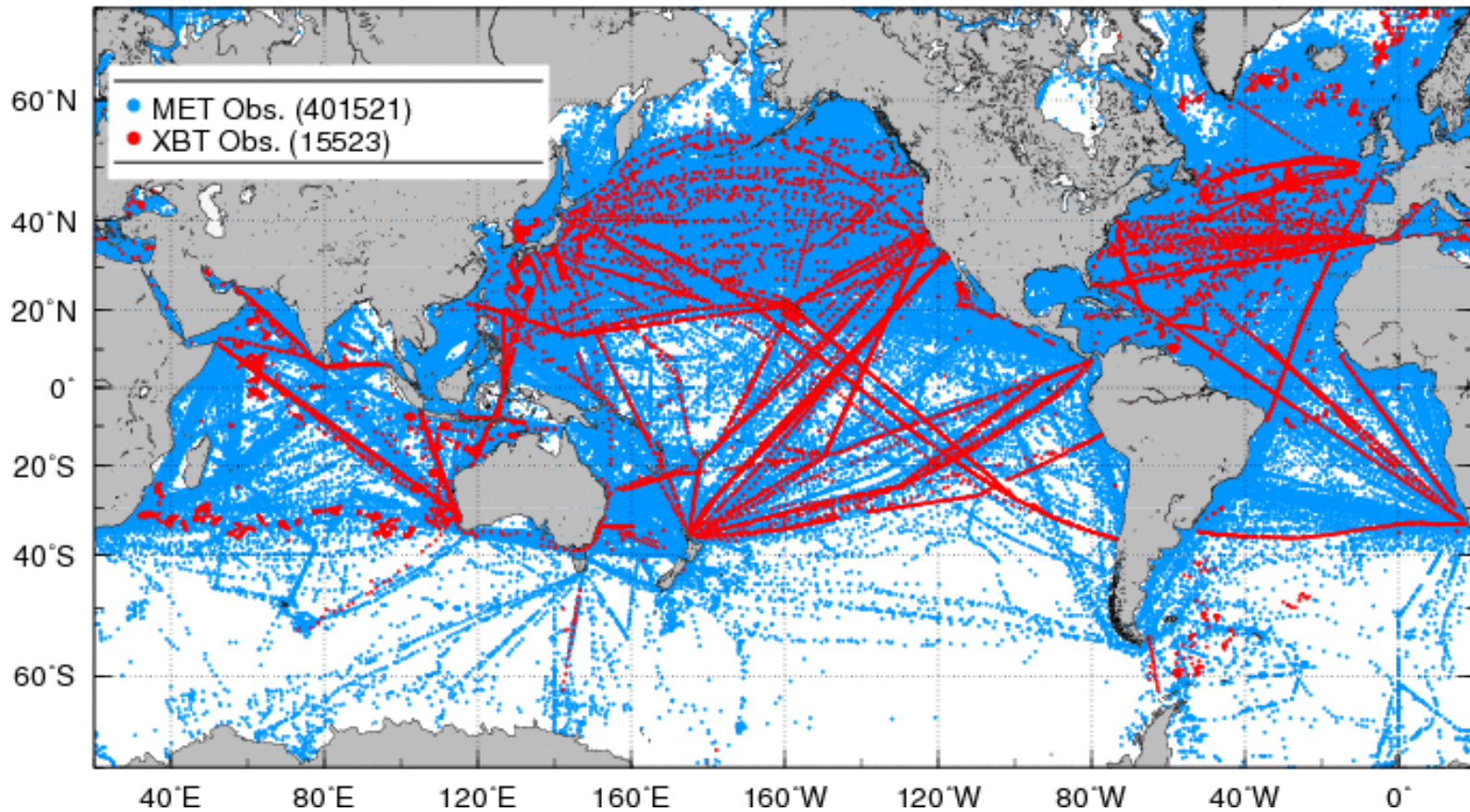


VOS	SOOP
Meteorological Observations	Oceanographic Observations
Synoptic reports	Deployments at specific locations
Dispersed global data	Deployments along fixed transects
Constant need of new ship recruitments	

VOS and SOOP: Global Coverage



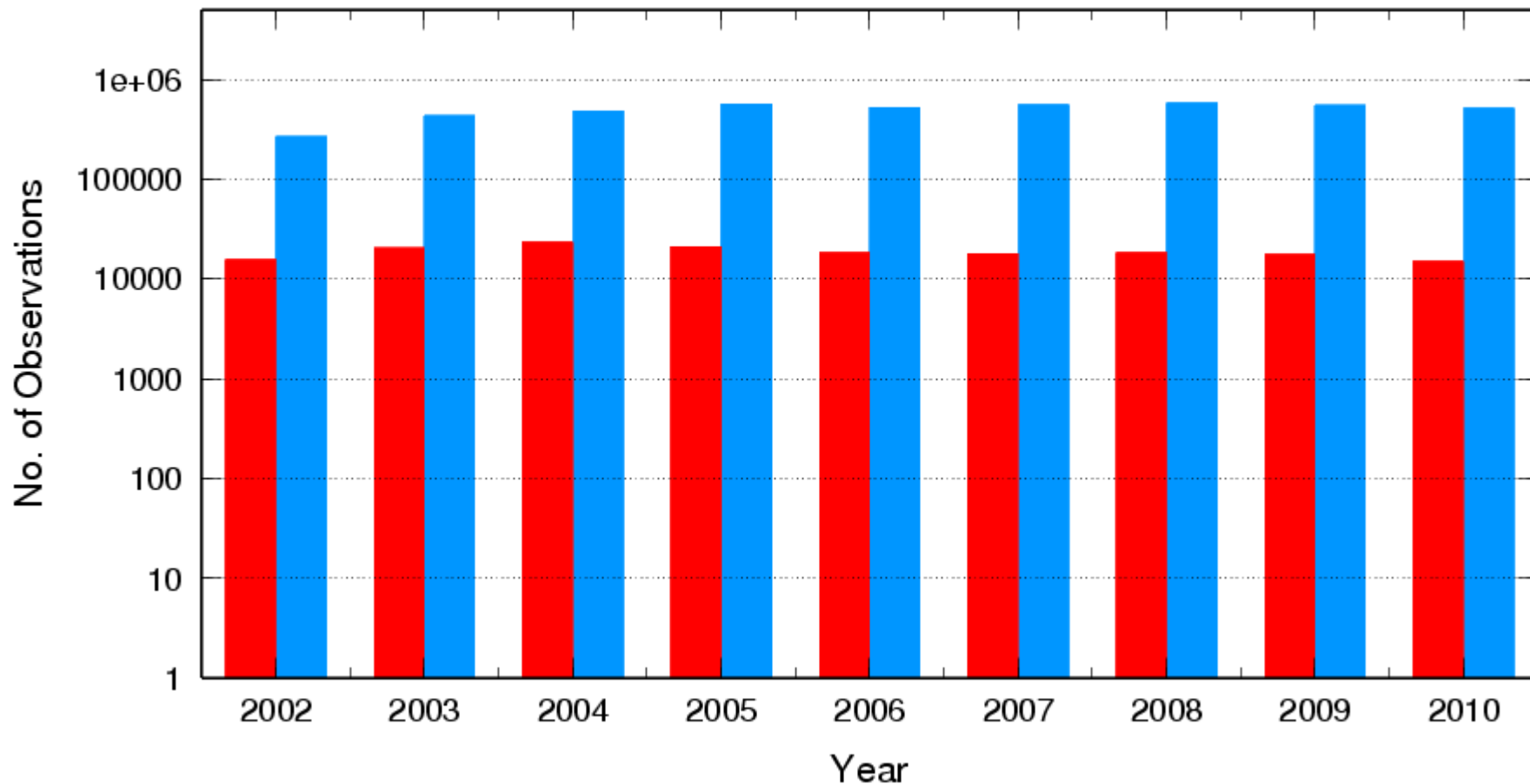
MET and XBT Observations in the GTS (2002)



VOS and SOOP: Number of Observations



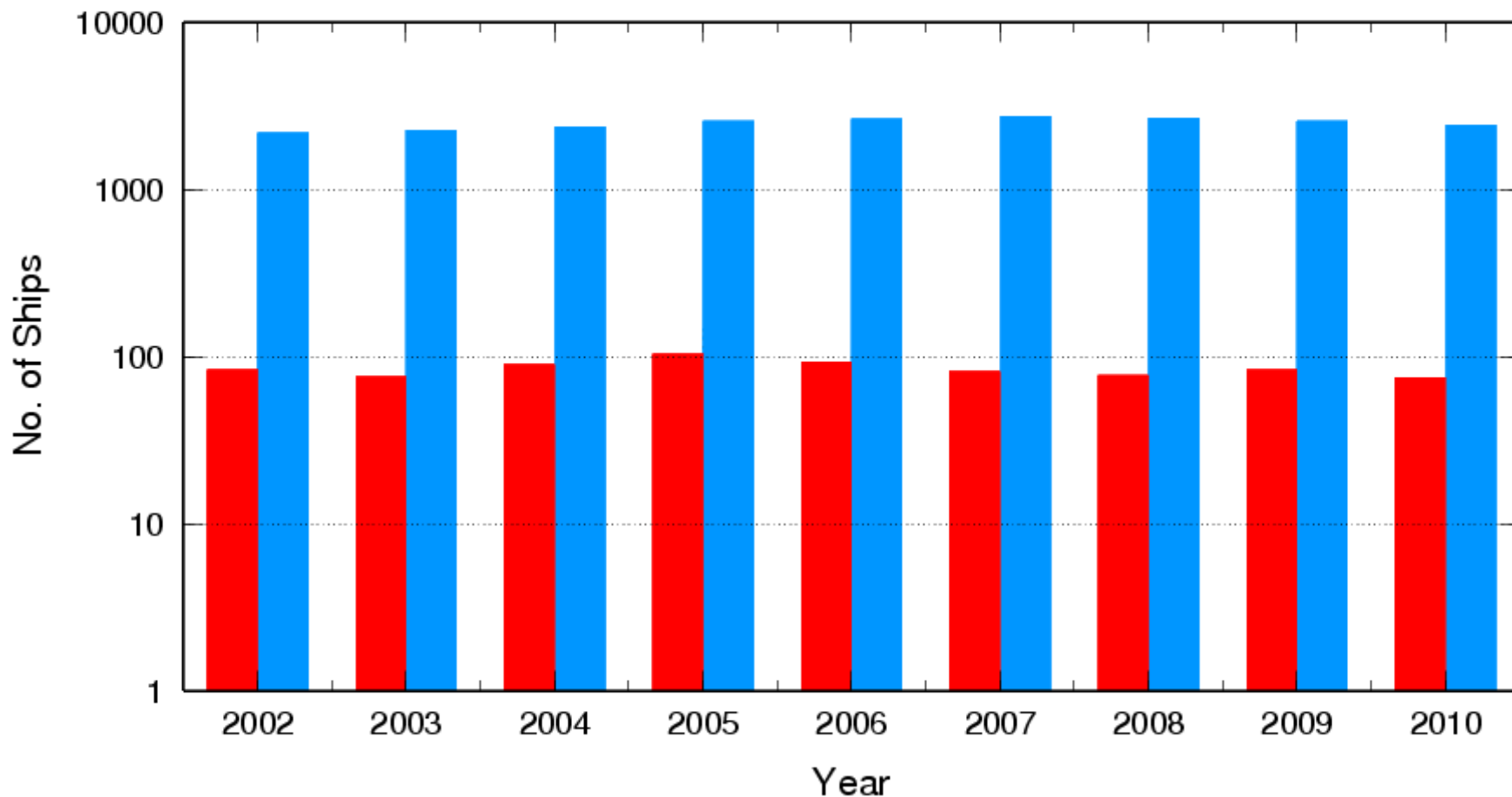
Number of MET (■) and XBT (■) Observations in the GTS



VOS and SOOP: No. of Participating Ships



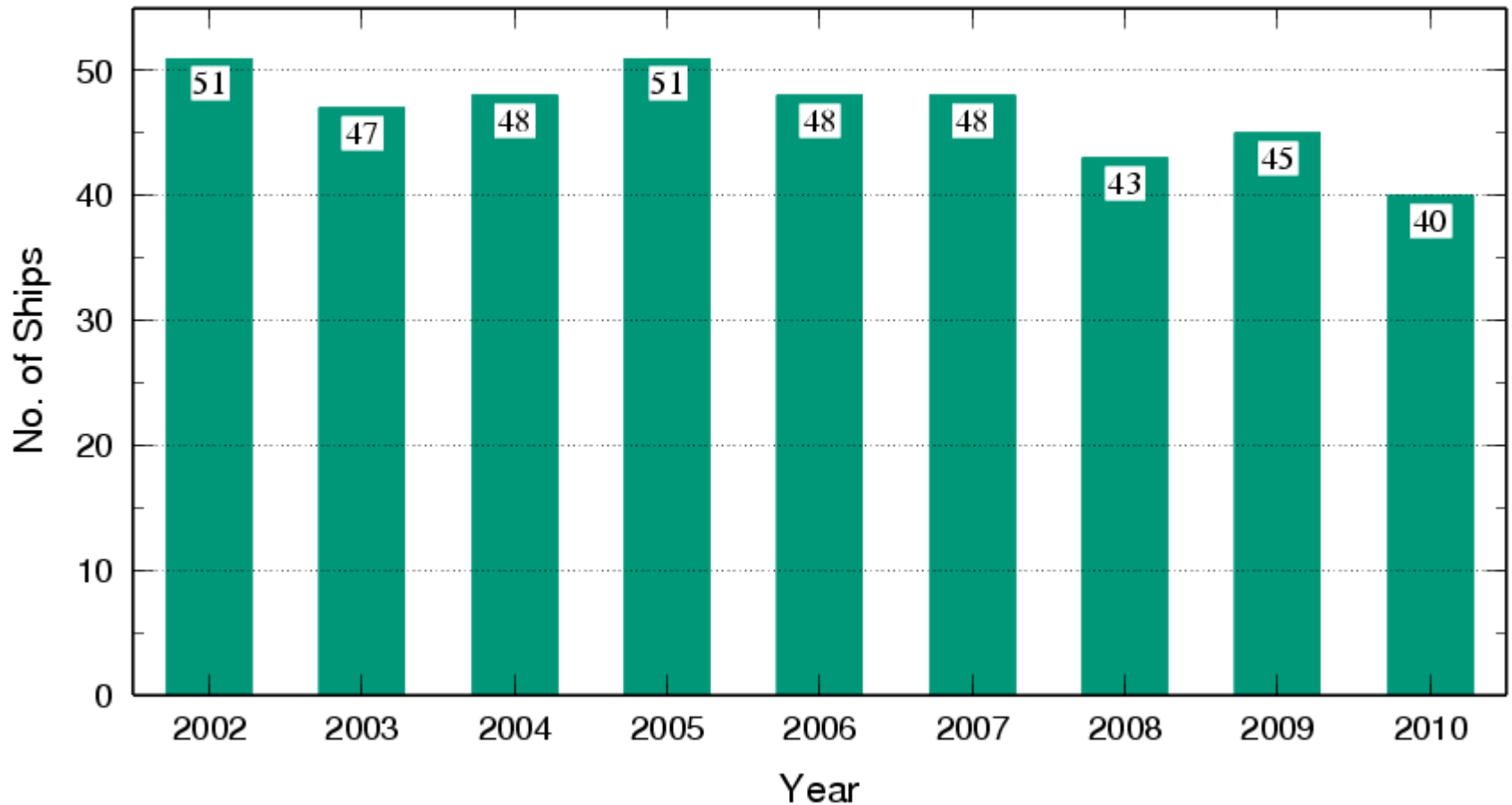
Number of Ships Collecting MET (■) and XBT (■) Observations



VOS and SOOP: Sharing Ships

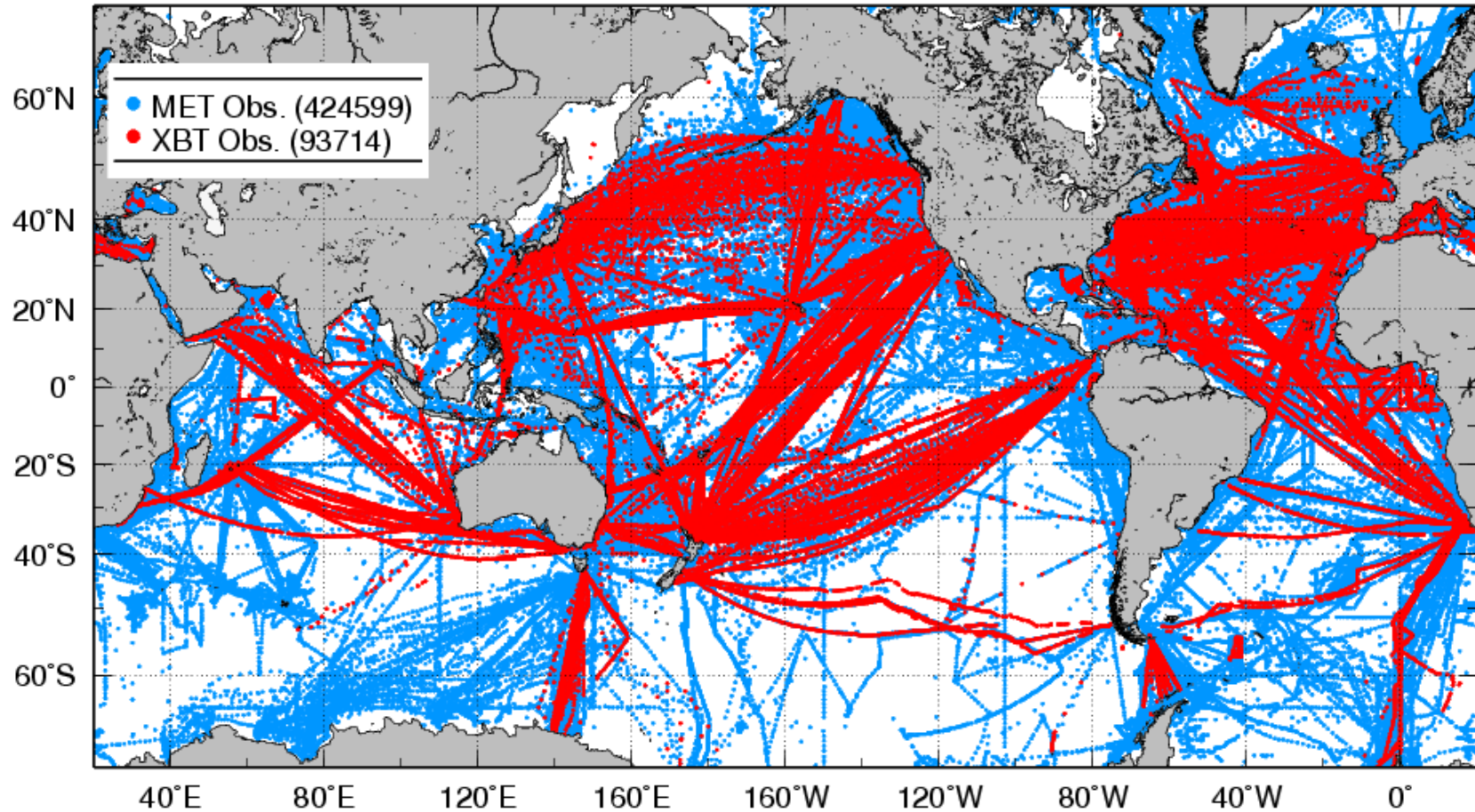


Number of Ships Collecting MET and XBT Observations Simultaneously





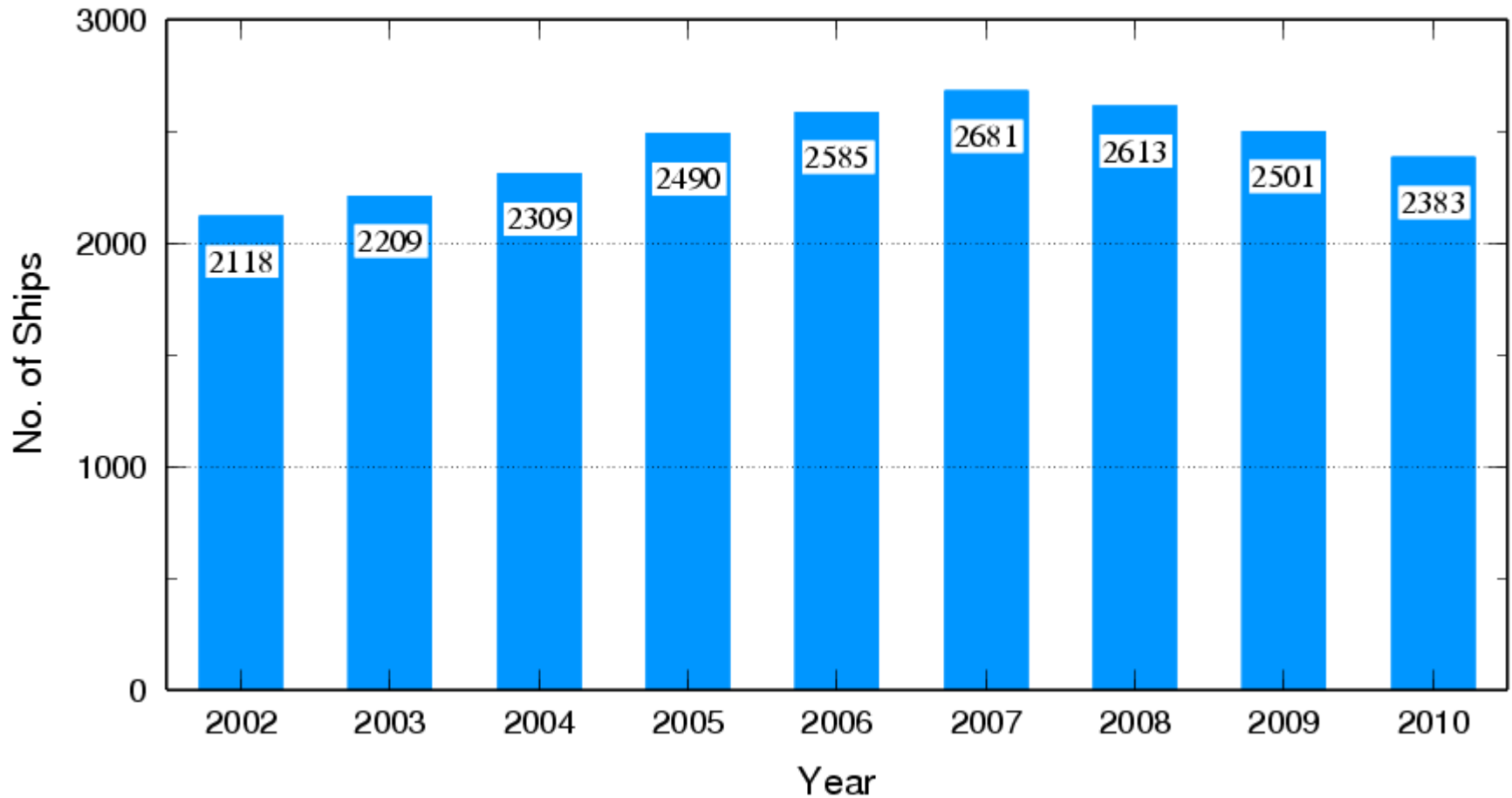
MET and XBT Observations from Shared Ships (2002–2010)



VOS only Ships



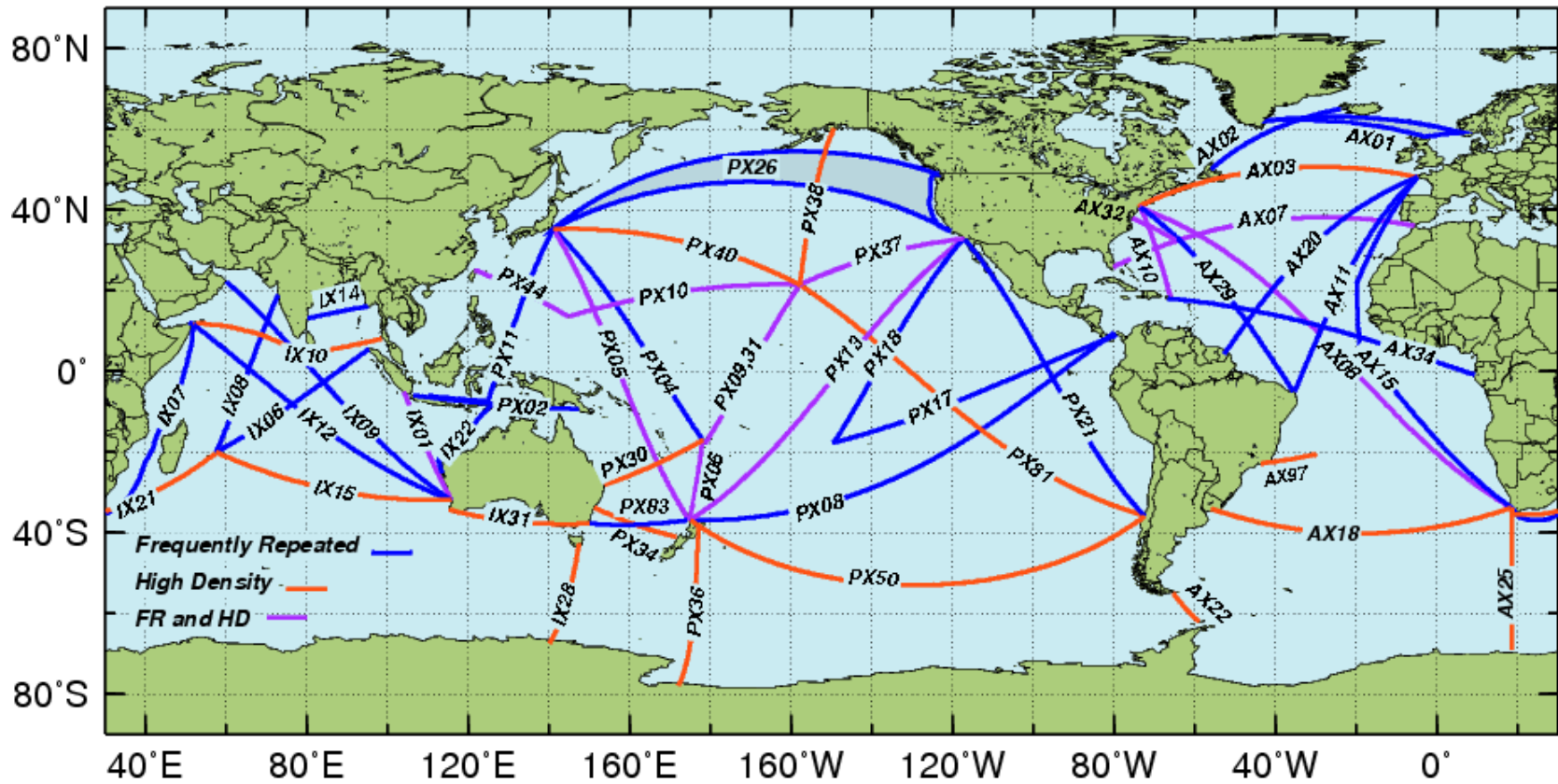
Number of Ships Collecting MET Observations Only



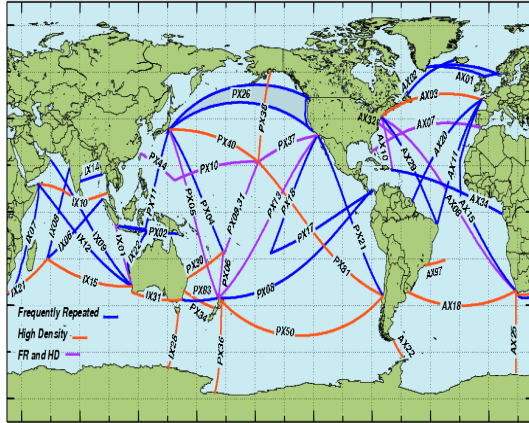
SOOP: Recommended XBT Network



Global XBT Network, OceanObs09 Recommendations



SOOP: XBT Transects Responsibilities



Transect	Agency	Status	Year
AX01	5, 1	Active	
AX03	10	Active	
AX07	1	Active	1995
AX08	1, 6	Active	2000
AX10	1	Active	1997
AX11	10	Active	
AX15	5	Active	
AX18	1, 11, 6	Active	2002
AX19	1		
AX20	5		
AX22	2, 11	Active	1996
AX25	1, 6	Active	2004
AX29	1		
AX32	1, 3	Active	1981
AX34			
AX97	1, 13	Active	2004
PX02	9	Active	
PX04	7		
PX05	2,16,17,7		
PX06/PX31/PX13	2, 7, 1		1986
PX08	2, 1	Active	2004
PX09	2, 1		1987
PX10	2, 1	Active	1991
PX11	9	Active	
PX12	7	Active	
PX18	1		
PX21			

Transect	Agency	Status	Year
PX26	1	Active	
PX30	4, 2, 7	Active	1991
PX34	4, 2	Active	1991
PX36			
PX37	2, 1	Active	1991
PX38	2	Active	1993
PX40	8, 17	Active	1998
PX44	2, 1	Active	1991
PX45	16	Active	
PX46	16	Active	
PX50	18, 2	Active	1993
PX53	7	Active	
PX81	2		1997
PX83	1		
IX01	9, 1	Active	
IX06	2, 6	Active	
IX08	12	Active	1992
IX09	14, 17		
IX10	14, 16, 17		
IX12	2, 9	Active	
IX14	12	Active	1990
IX15	2, 4, 6	Active	1994
IX21	2, 4, 6	Active	1994
IX22	9	Active	
IX28	4, 2	Active	1993
IX31	2	Active	

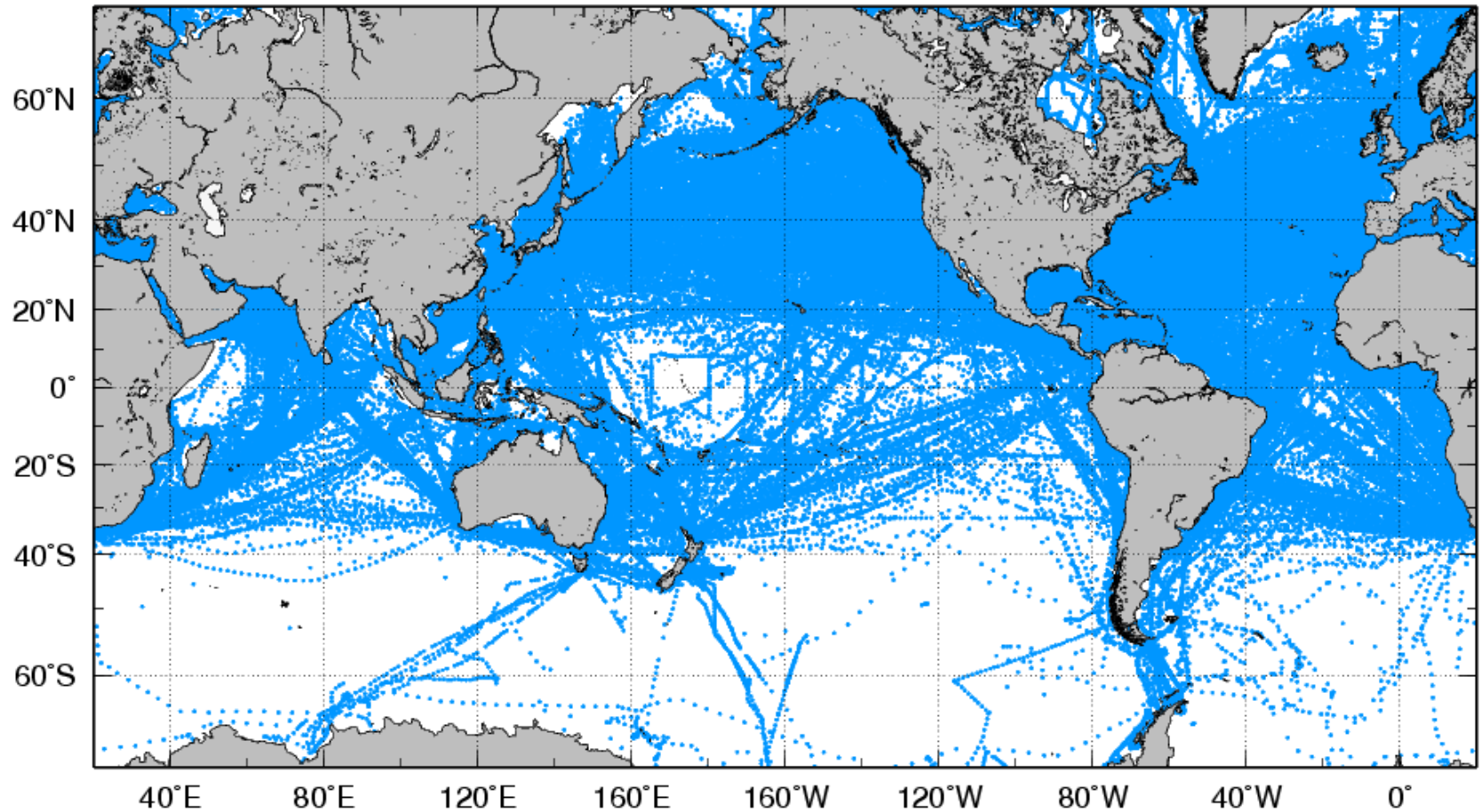
- | | |
|-----------------|------------------|
| 1 USA-AOML | 6 ZAF-UCT |
| 2 USA-SIO | 7 FRA-IRD/NOUMEA |
| 3 USA-NMFS | 8 JPN-TOHOKU-U |
| 4 AUS-CSIRO | 9 AUS-BOM |
| 5 FRA-IRD/BREST | 10 GER-BSH |

- | | |
|-------------|----------------|
| 11 ARG-SHN | 16 JPN-JMA |
| 12 IND-NIO | 17 JPN-JAMSTEC |
| 13 BRA-FURG | 18 NZL-MSNZ |
| 14 UK-UKMO | 19 JPN |
| 15 IND | |

Observations from VOS only Ships



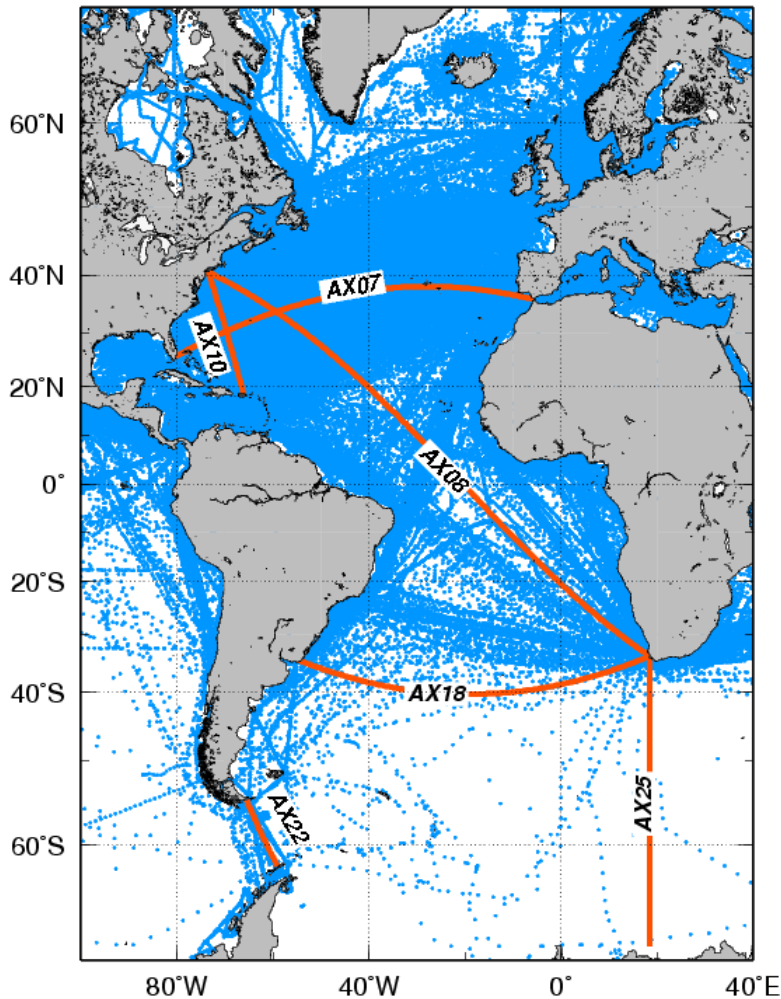
MET Only Observations (2010)



NOAA/AOML XBT HD Transects



MET Only Observations (2010)



We need help!

AX07 (From Gibraltar to Miami)

AX08 (From Cape Town to New Jersey)

AX18 (From Cape town to Buenos Aires)

PX50 (From New Zealand to Valparaiso)

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AOML/SOOP and PMO's interaction



- Annual SEAS / SOOP operations workshop at AOML
- SOOP brochure for recruitments:

http://www.aoml.noaa.gov/phod/goos/docs/SOOP_brochure_recent_foldover.pdf

- We need also help for Argo floats (Robert.J.Roddy@noaa.gov) and drifters (Shaun.Dolk@noaa.gov)

We appreciate the support of PMO's already helping in the recruitment, loading, unloading, as ship riders:

David Dellinger, Gus Mckay, Jim Luciani, Paula Rychtar, Peter Gibino, Robert Niemeyer, Tim Kenefick, ...

Thank you!!!