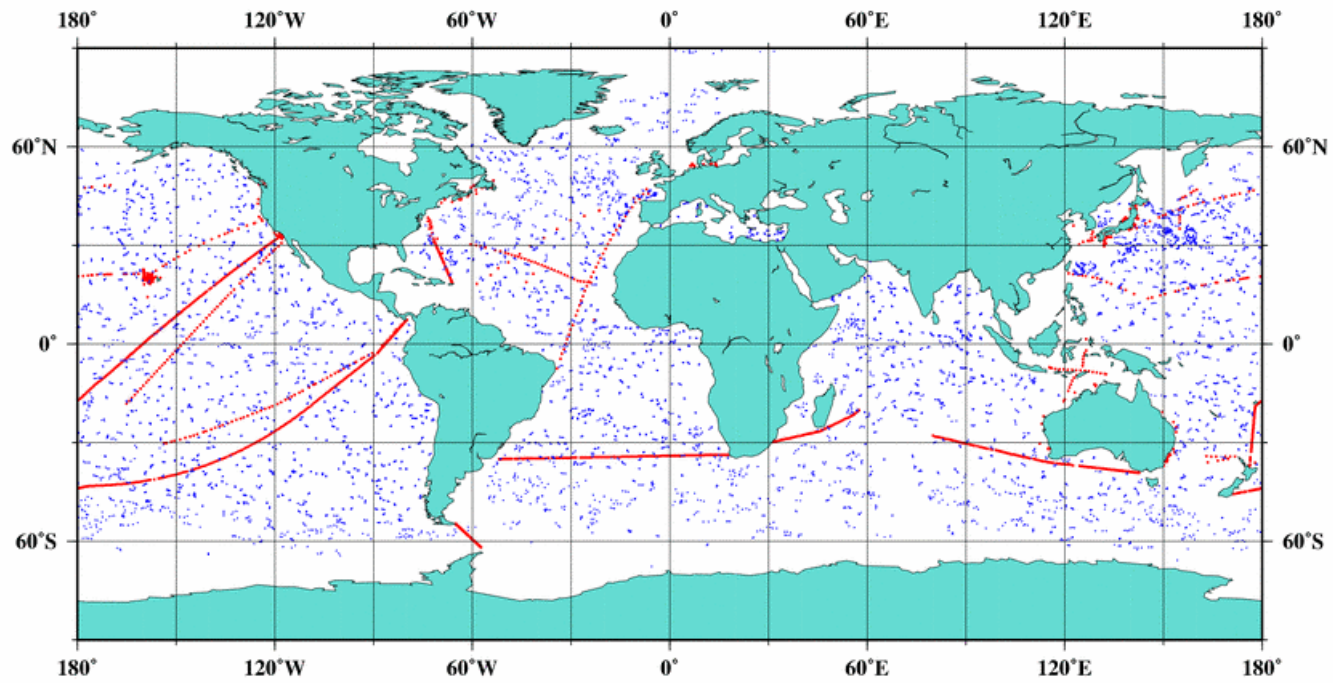


## Ship Days at Sea

	NOAA Contributions						International Goal
	FY07	FY08	FY09	FY10	FY11	FY12	
Ka'imimoana	240	240	240	240	240	240	240
TAO/TRITON additional	45	45	45	45	45	45	90
PIRATA	35	35	35	35	35	35	125
Carbon survey	70	70	70	70	70	70	240
Coastal flux maps	60	0	60	0	60	0	240
Reference Stations	43	43	43	43	43	43	480
Deployment of drifting arrays	80	150	120	150	120	150	130
Thermohaline circulation	33	33	33	33	85	79	340
Western Boundary Current	44	24	30	44	24	30	30
Weddell Sea moorings	4	4	20	20	20	20	20
Arctic hydrographic sections	50	60	60	60	60	60	120
NOAA total	556	764	871	912	882	912	2075
NOAA contribution	556	764	871	912	882	912	1650



Number of Profiles Obtained in Jul-2006

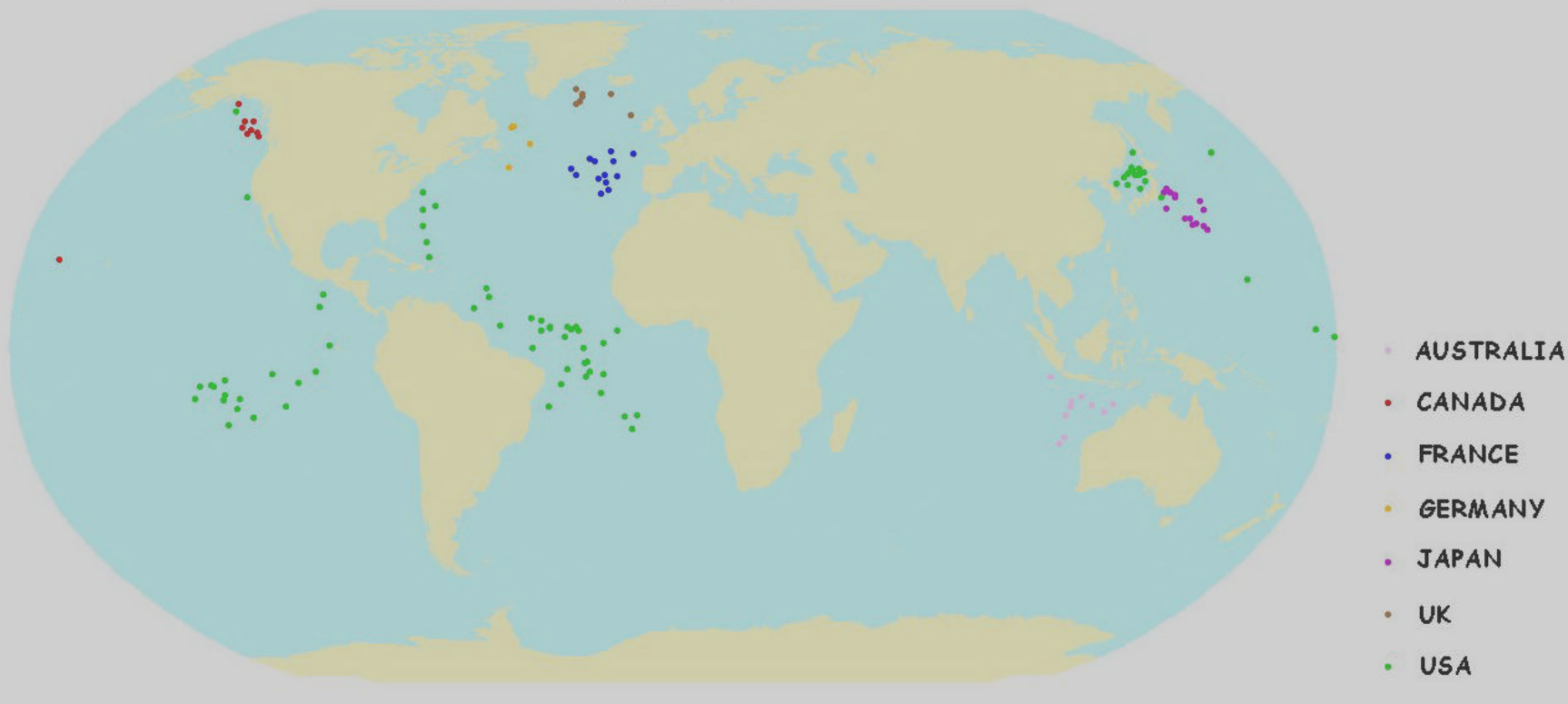


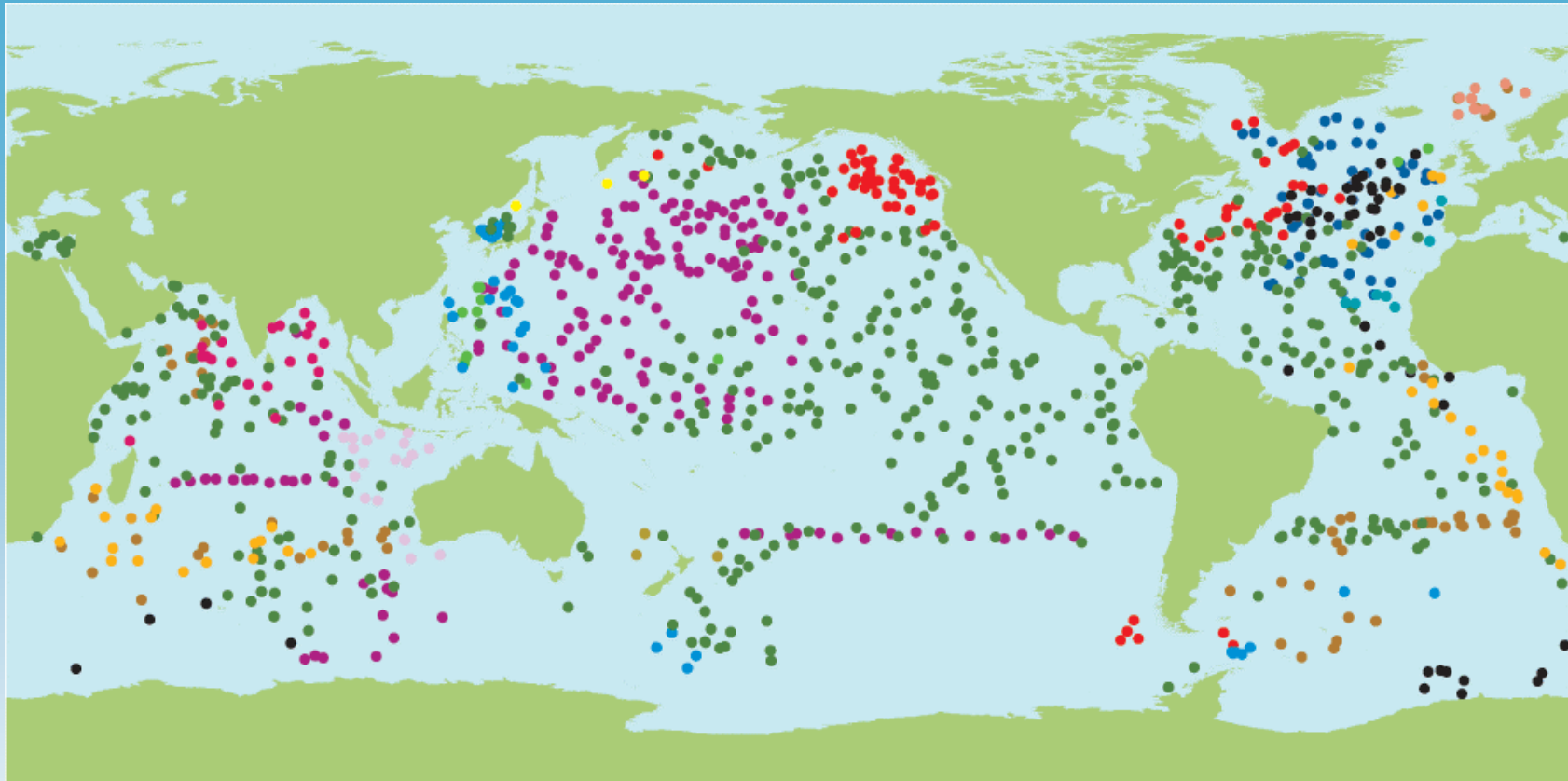
ARGO=7628

XBT=2451

# *Argo International Project*

Argo Status as of June 2001  
135 Floats

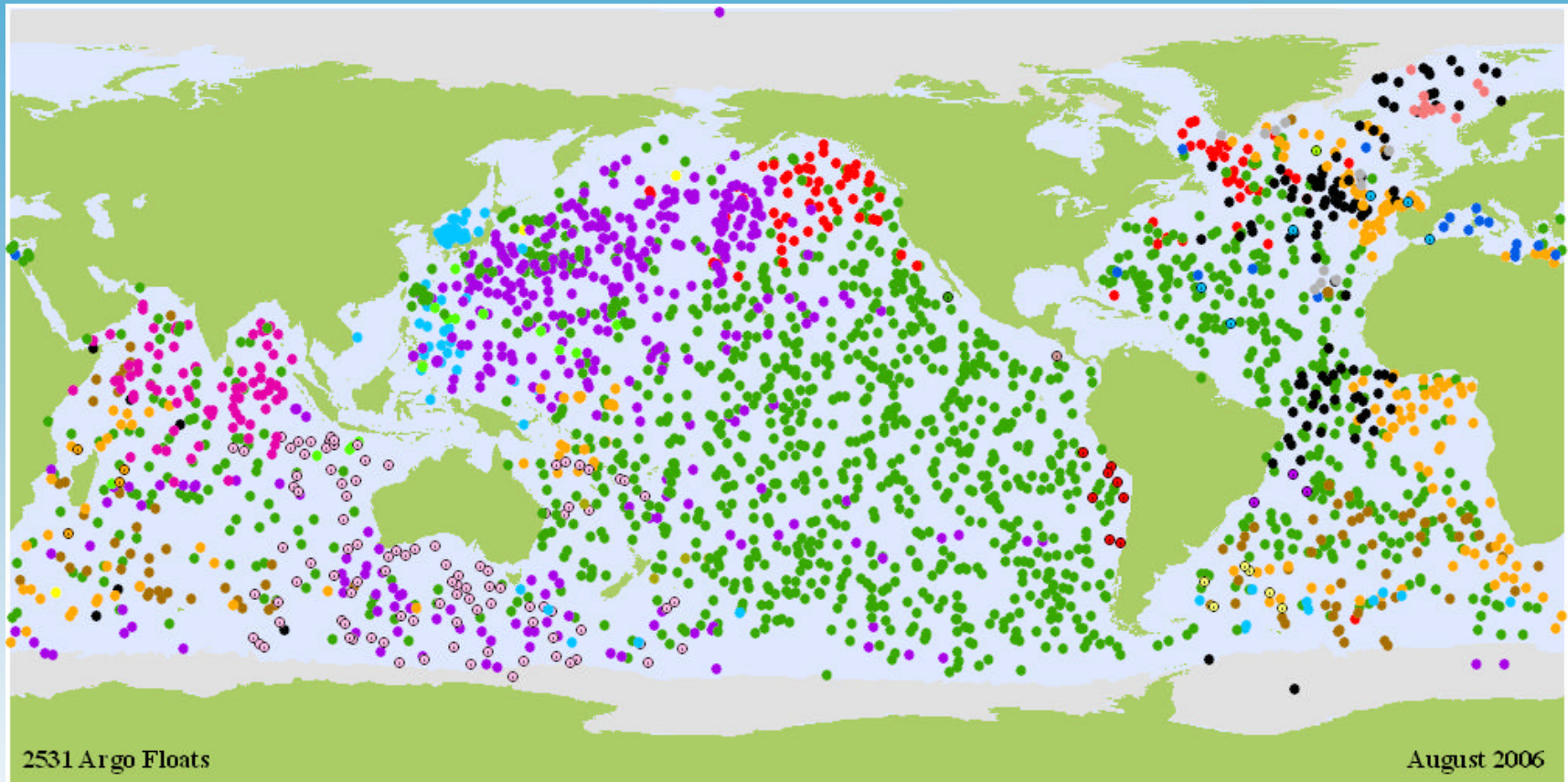




**Argo Network, as of January 2004**

**(1043 Floats)**

- |                       |                        |                          |
|-----------------------|------------------------|--------------------------|
| ● AUSTRALIA (19)      | ● FRANCE (38)          | ● MAURITIUS (1)          |
| ● CANADA (73)         | ● GERMANY (48)         | ● NEW ZEALAND (3)        |
| ● CHINA (10)          | ● INDIA (21)           | ● NORWAY (9)             |
| ● DENMARK (0)         | ● IRELAND(2)           | ● RUSSIAN FEDERATION (3) |
| ● EUROPEAN UNION (55) | ● JAPAN (181)          | ● SPAIN (7)              |
|                       | ● KOREA (Rep. of) (46) | ● UNITED KINGDOM (60)    |
|                       |                        | ● UNITED STATES (467)    |



- |                  |                       |                 |                            |                          |                        |
|------------------|-----------------------|-----------------|----------------------------|--------------------------|------------------------|
| ○ ARGENTINA (6)  | ● CHILE (8)           | ● FRANCE (177)  | ● JAPAN (371)              | ● NETHERLANDS (11)       | ● SPAIN (6)            |
| ○ AUSTRALIA (98) | ● CHINA (15)          | ● GERMANY (115) | ● KOREA (REPUBLIC OF) (81) | ● NEW ZEALAND (4)        | ● UNITED KINGDOM (92)  |
| ● BRAZIL (3)     | ○ COSTA RICA (1)      | ● INDIA (78)    | ● MAURITIUS (4)            | ● NORWAY (10)            | ● UNITED STATES (1341) |
| ● CANADA (87)    | ● EUROPEAN UNION (18) | ● IRELAND (1)   | ● MEXICO (1)               | ● RUSSIAN FEDERATION (3) |                        |

# Deployment opportunities – charter vessel



**NIWA (NZ) has offered R/V Kaharoa for float deployments anywhere in the South Pacific. The ship is small (28 m), but has deep-sea capabilities\*, 30+ days endurance at 10 knot speed. NIWA cost-shares 15% of ship-time as international Argo partner.**

**The vessel carries 4 crew members and a marine science technician. It has space for a 20' sea container loaded with floats on the stern.**

**The first cruise took place in February – April 2004, Wellington – Valparaiso – Wellington.**

**Final cruise under present contract presently underway.**

**\* Operates under Lloyd's Safe Ship Management System**

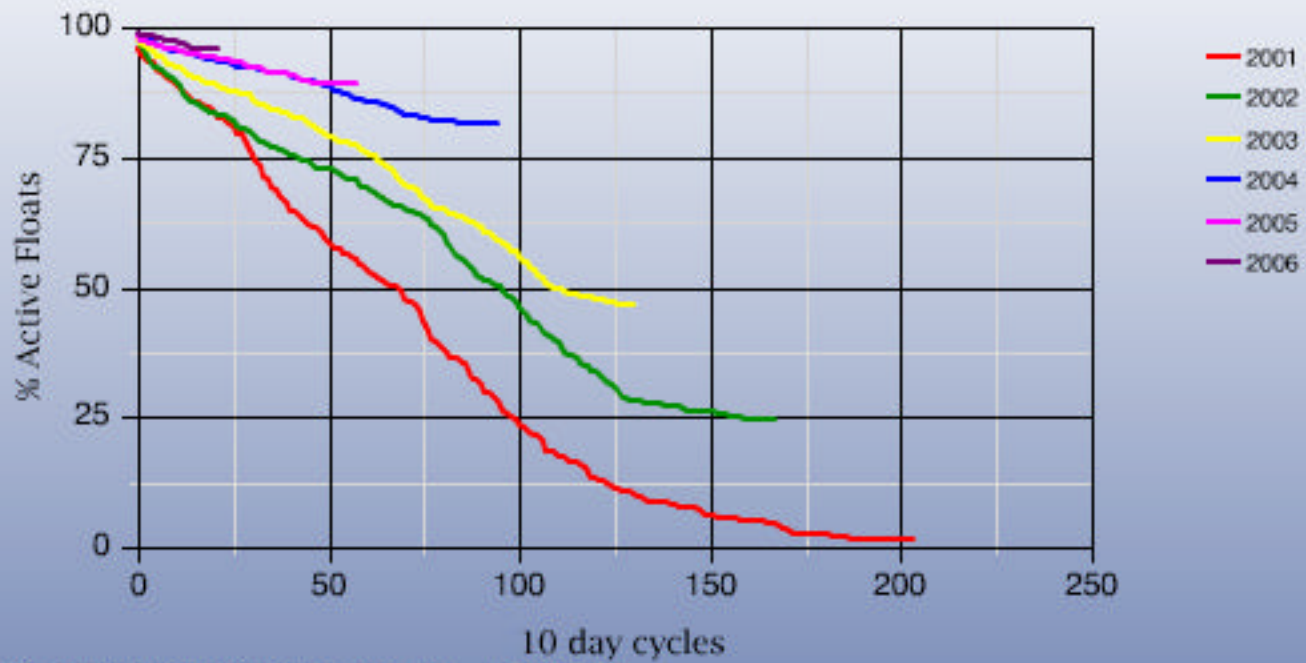
# Argo Status



## Yearly Deployments

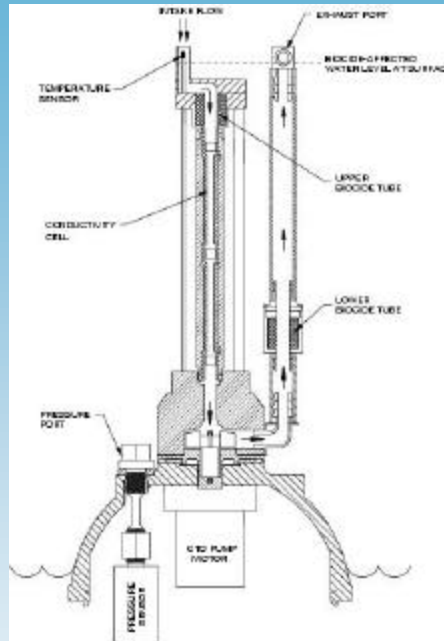
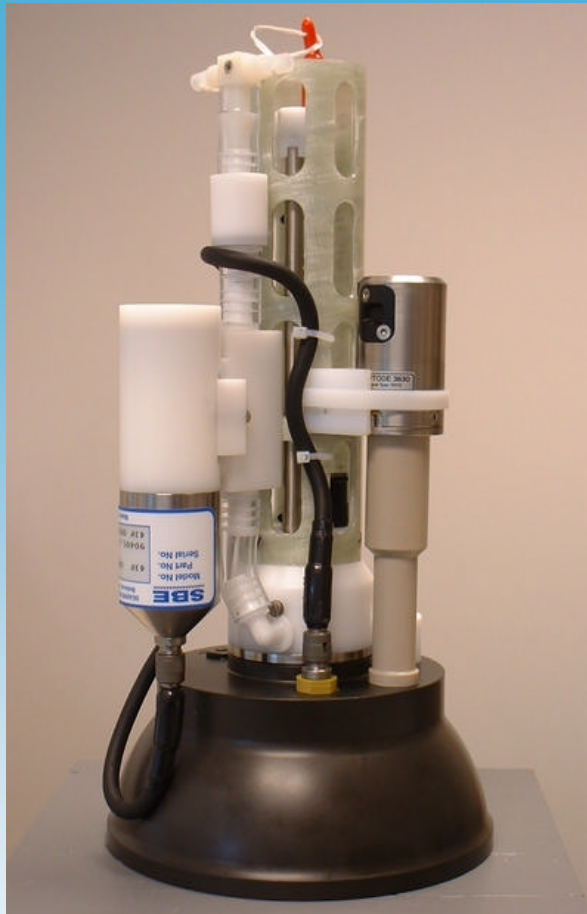
2000	2001	2002	2003	2004
116	292	455	667	838

## Decay Rate, Argo



AIC, <http://argo.jcommops.org>, 1/8/2006



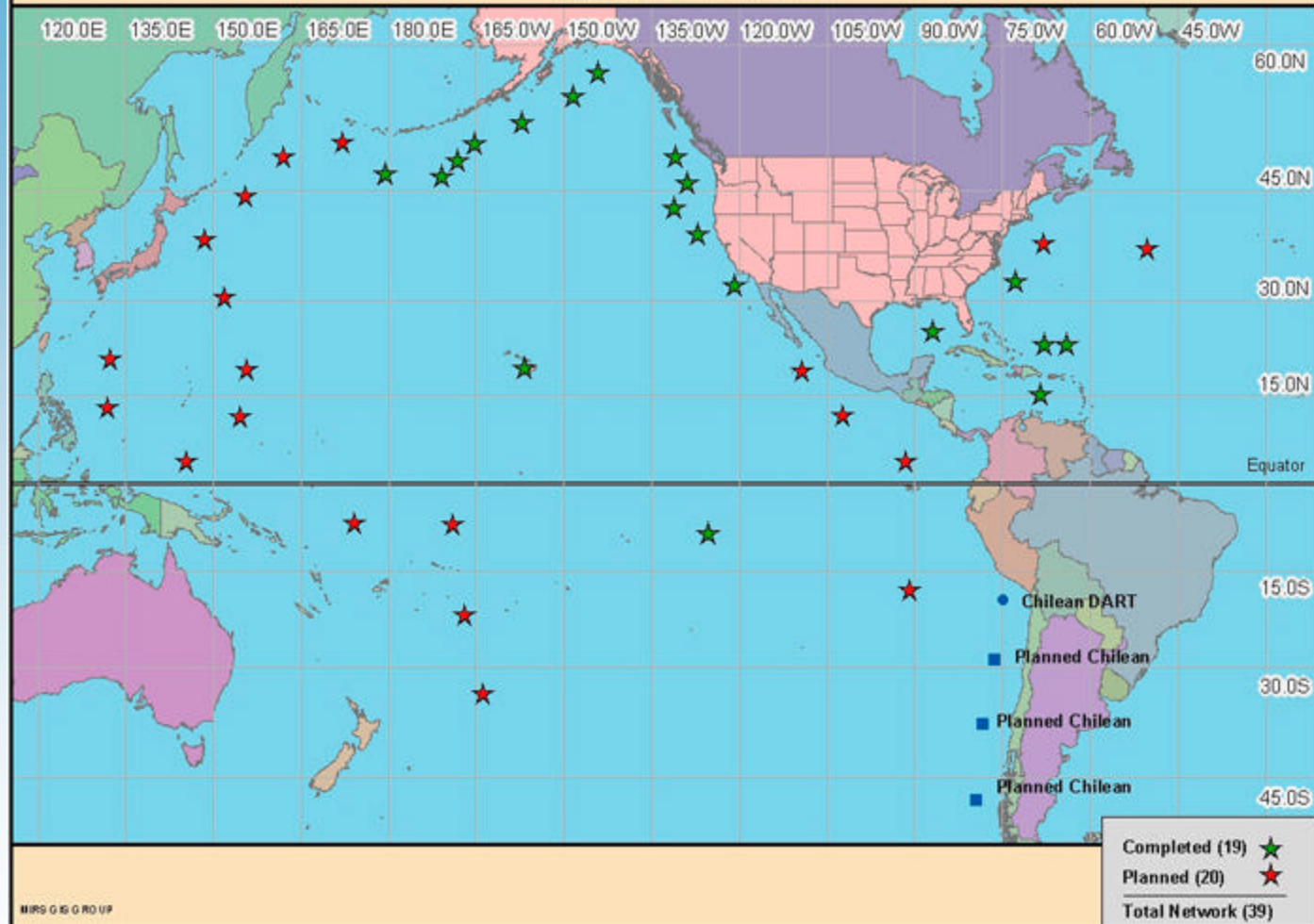


- ? Biogeochemical floats that measure  $T$ ,  $S$ , and  $O_2$ , as well as chlorophyll and particulate carbon, plus  $NO_3$  and  $pH$
- ? Acoustically-tracked profiling floats that can operate under seasonal ice; store profiles during winter and transmit during ice-free seasons; incorporate ice avoidance algorithms



# DART LOCATIONS - CONCEPTUAL PLAN

(As of August 18, 2006)



# Gliders for the Edges of the Argo Array

Although slow moving, can maintain arrays in boundary currents and other localized features

