

Update on SOOP XBT status DBCP surface drifting buoys status

OOPC-11, Tokyo, Japan, May 2006



GCOS
The Global Climate
Observing System



GOOS
The Global Ocean
Observing System

WCRP

World Climate
Research Programme



IOC



WMO

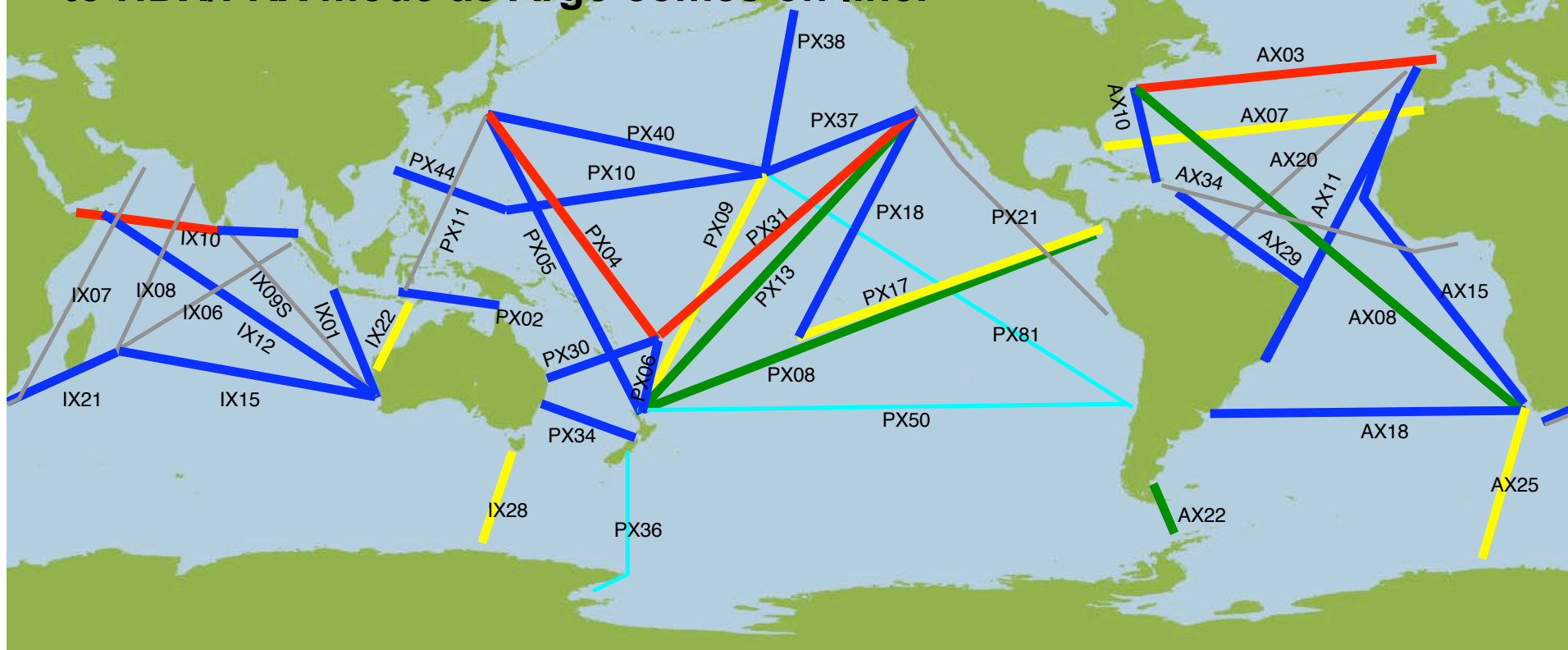


UNEP



ICSU

International goal: Evolve from Broadcast XBT to HDX/FRX mode as Argo comes on line.



SOOP : January - December 2004

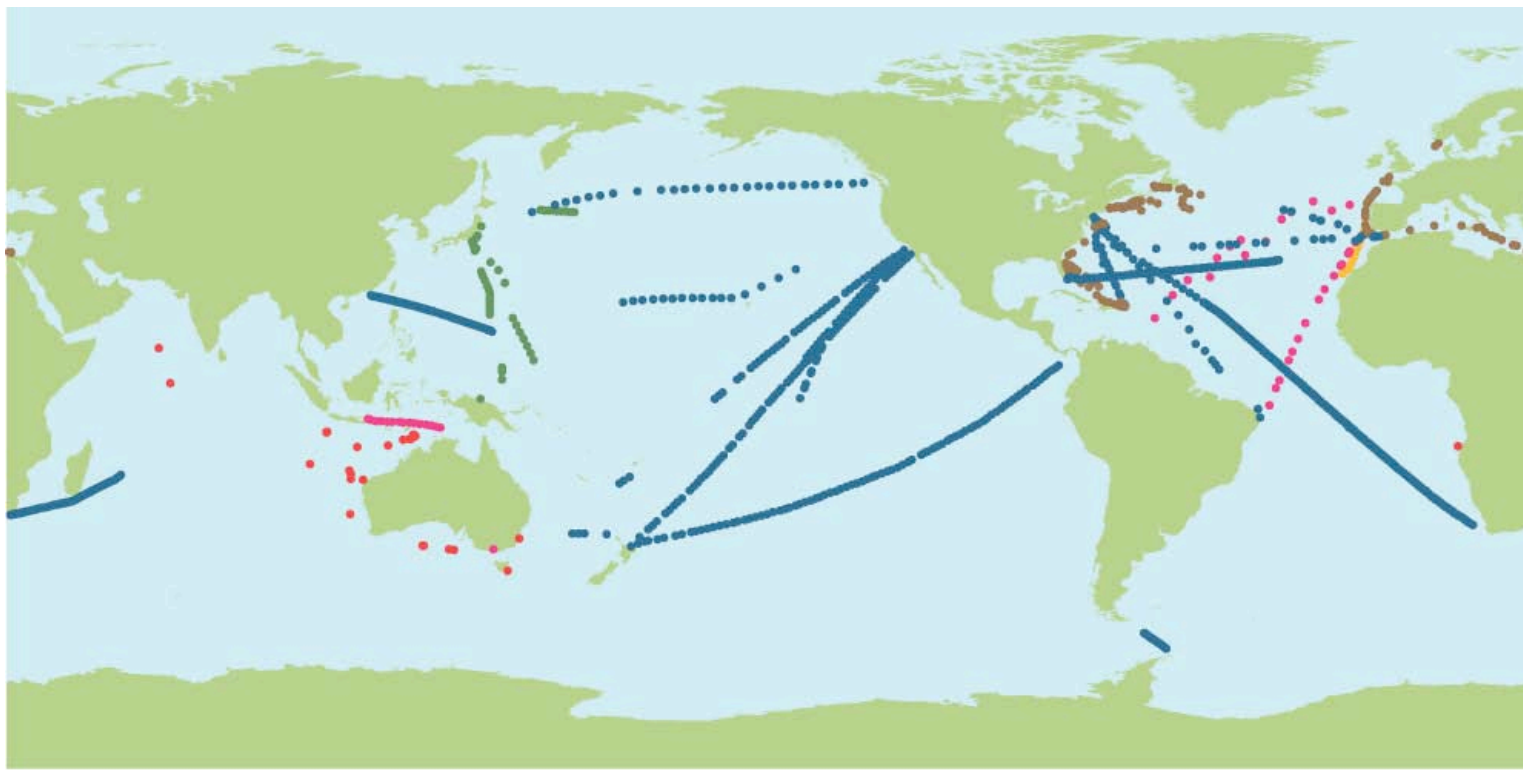
Note : AX08 is Under sampled in FRX Mode

- Well sampled —
- Over sampled —
- Partially sampled —
- Under sampled —
- Not sampled HDX —
- Not sampled FRX —

39 of 51 lines occupied

24000 XBTs required per year (if perfect deployment)
19,686 Present drops per year, estimate
4,314 Additional XBTs needed

Latest information from GTS



SOOP GTS monthly status, March 2006 (XBT profiles on GTS)

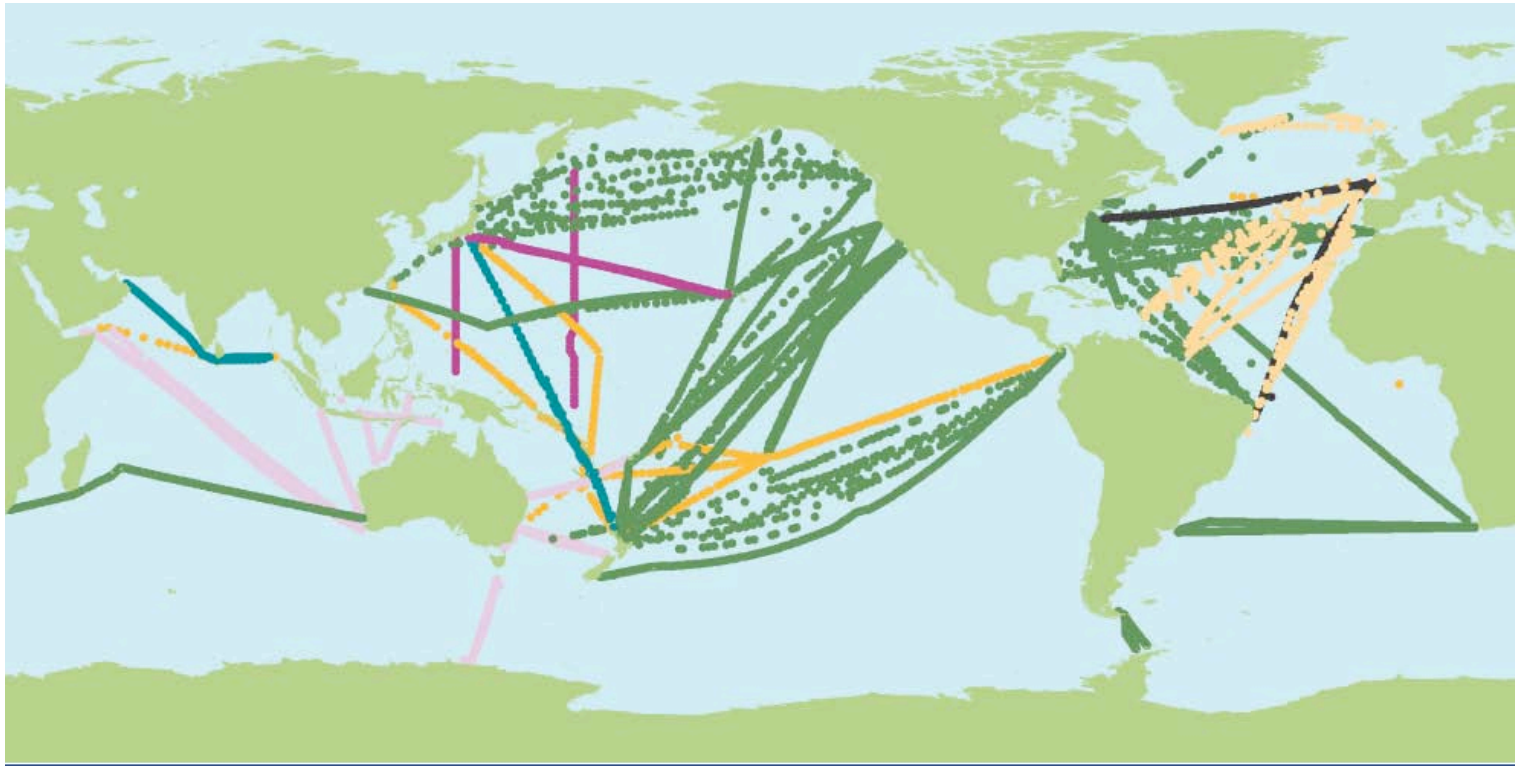
Total XBT profiles on GTS: 1222

- | | | |
|------------------------------|-------------------------|-------------------------|
| ● AMMC (Melbourne) (30) | ● CWOW (Montreal) (133) | ● EDZW (Offenbach) (15) |
| ● KWBC (Washington-DC) (951) | ● LFPW (Toulouse) (45) | ● RJTD (Tokyo) (48) |

BATHY reports by GTS originating centre.

Notes: Data received at JCOMMOPS via Météo-France; GTS data source is not necessarily related to country in charge of programme

Detailed reports rely on SOOP coordinator and operators



SOOP semestrial survey, January 2005 to June 2005

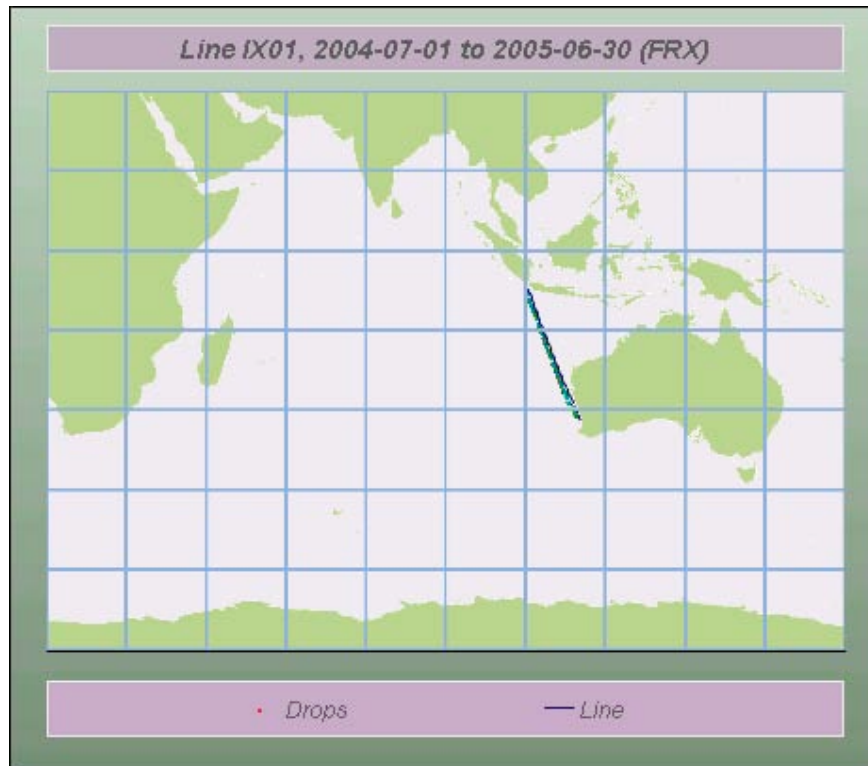
Total XBT profiles: 9626

● AUSTRALIA (1456)
● JAPAN (388)
● UNITED STATES (6329)

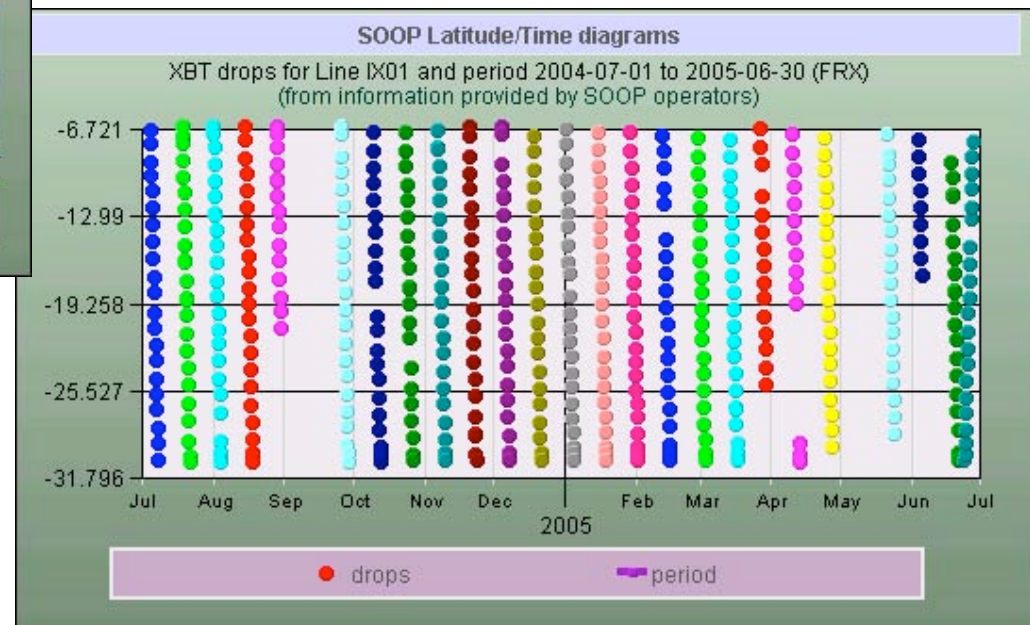
● FRANCE (381)
● JAPAN/USA (381)

● GERMANY (253)
● NEW CALEDONIA (438)

Example of SOOP monitoring tools



www.jcommops.org



Transition of SOOP Coordinator

- Etienne Charpentier left JCOMMOPS to work in WMO JCOMM Secretariat in January 2006
- Hester Viola (Australia, from BOM) is the new DBCP and SOOP Coordinator, and will begin at JCOMMOPS in Toulouse this summer

Coordination of SOOP with OOPC and CLIVAR basin panels

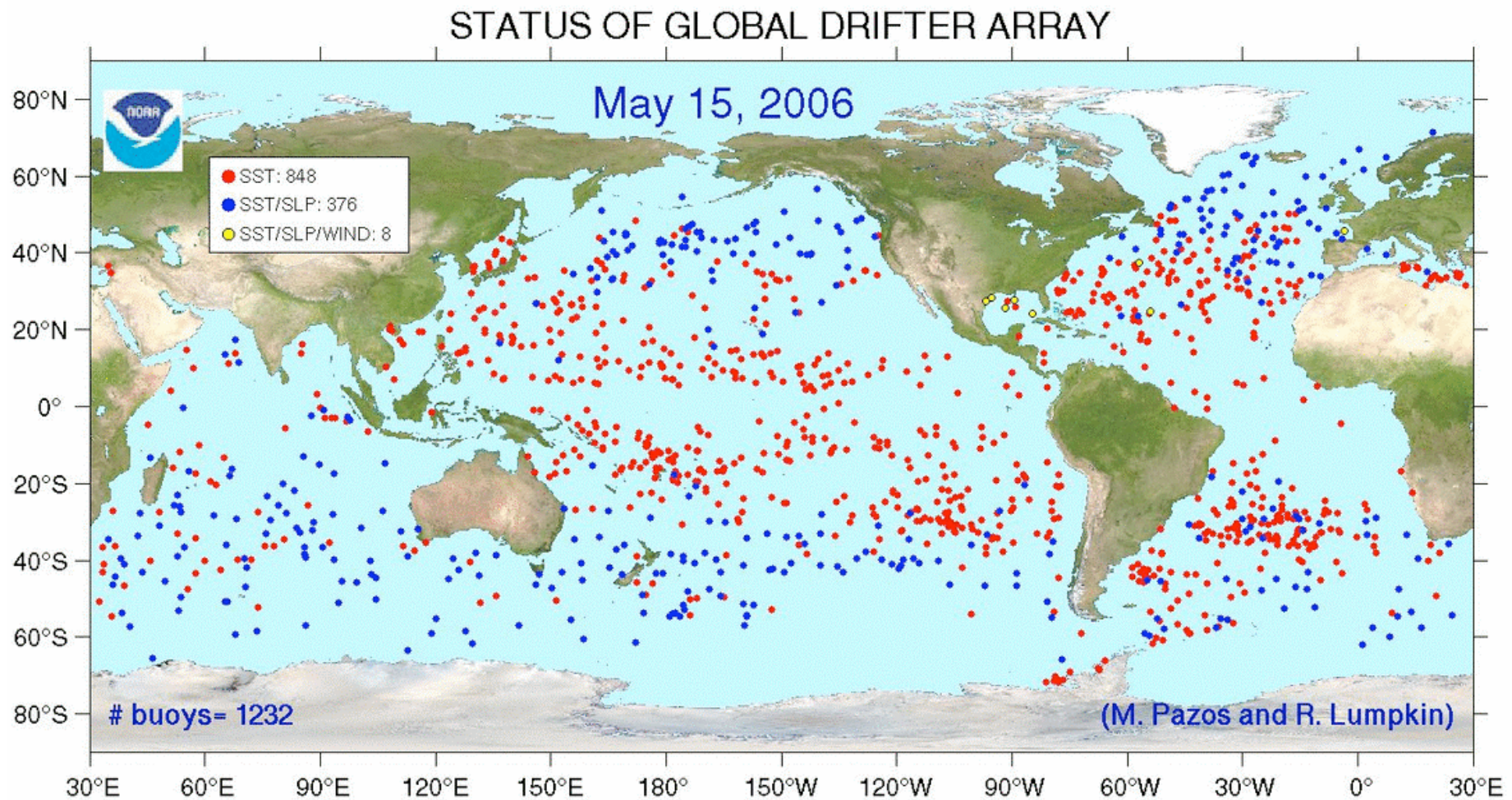
- Actions still outstanding from OOPC-10:
 - to provide updated guidance, in consultation with the CLIVAR basin panels and the SOOPIP, on requirements for XBT lines (including resolution requirements and specifically on lines that cannot be maintained due to changes in shipping patterns) with a standardized form/questionnaire for the basin panel chairs, and feedback to the panel chairs
 - to clarify the frequently-repeated XBT line spacing requirement for SOOP
- Next SOT meeting in April 2007

Surface drifting buoys (DBCP) status



September 2005, JCOMM-II, Global Drifter 1250

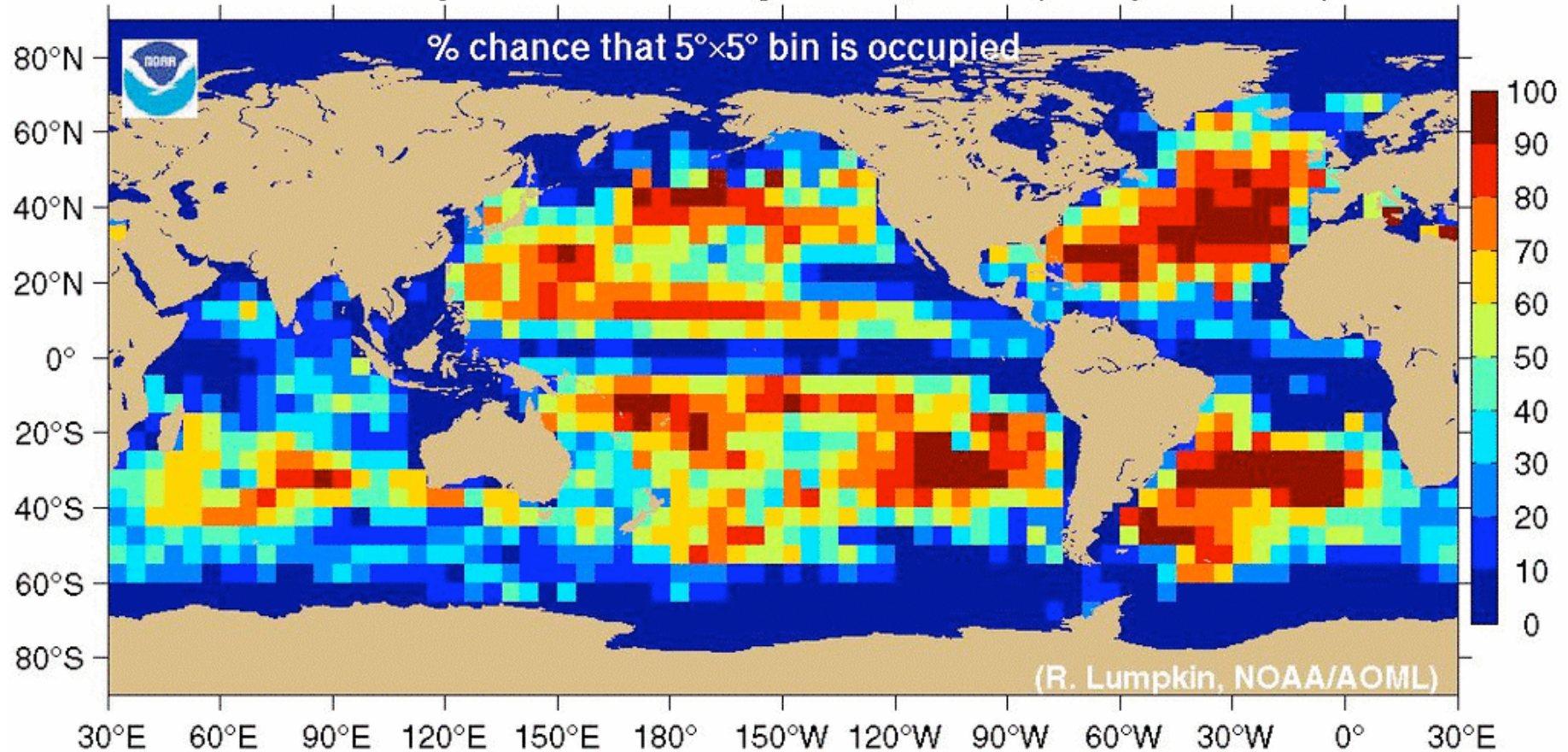
Surface drifting buoys (DBCP) status



currently **1232 of 1250**, requirement based on global 5x5° distribution

Global prediction of distribution in 90 days

Drifter array forecast for August 13, 2006 (90d prediction)



Points for discussion

- SOOP XBT lines:
 - As Argo has grown, SOOP XBTs have shifted from broadcast to line mode
 - Last year OOPC, citing GCOS Climate Monitoring Principles, thought it too early to conduct a review of XBT line requirement - still true?
 - How to maintain communication between SOOP operators and researchers?
- DBCP surface drifting buoys
 - What can OOPC/CLIVAR do to improve deployment opportunities? (cruise plan database, POGO/SCOR/JCOMMOPS?)
 - Requirement based on SST, but currents are major output

O20: Establish an international group to assemble surface drifting buoy motion data, ship drift current estimates, current estimates based on wind stress and surface topography fields and to prepare an integrated analyses of the surface current field.

Who: **OOPC** will work with JCOMM and WCRP. Time-Frame: 2008.