

International Buoy Programme for the Indian Ocean
~ an Action Group of the Data Buoy Cooperation Panel ~



Report of the IBPIO

2011/12 Intersessional Report to DBCP-XXVIII
2 – 6 October, Fremantle, Australia

Graeme Ball, Chairman
Jean Rolland, Programme Coordinator



Outline

- Programme Overview
- Programme Review & Plans
- Status of the Networks
- Performance Monitoring
- Participants & Meetings



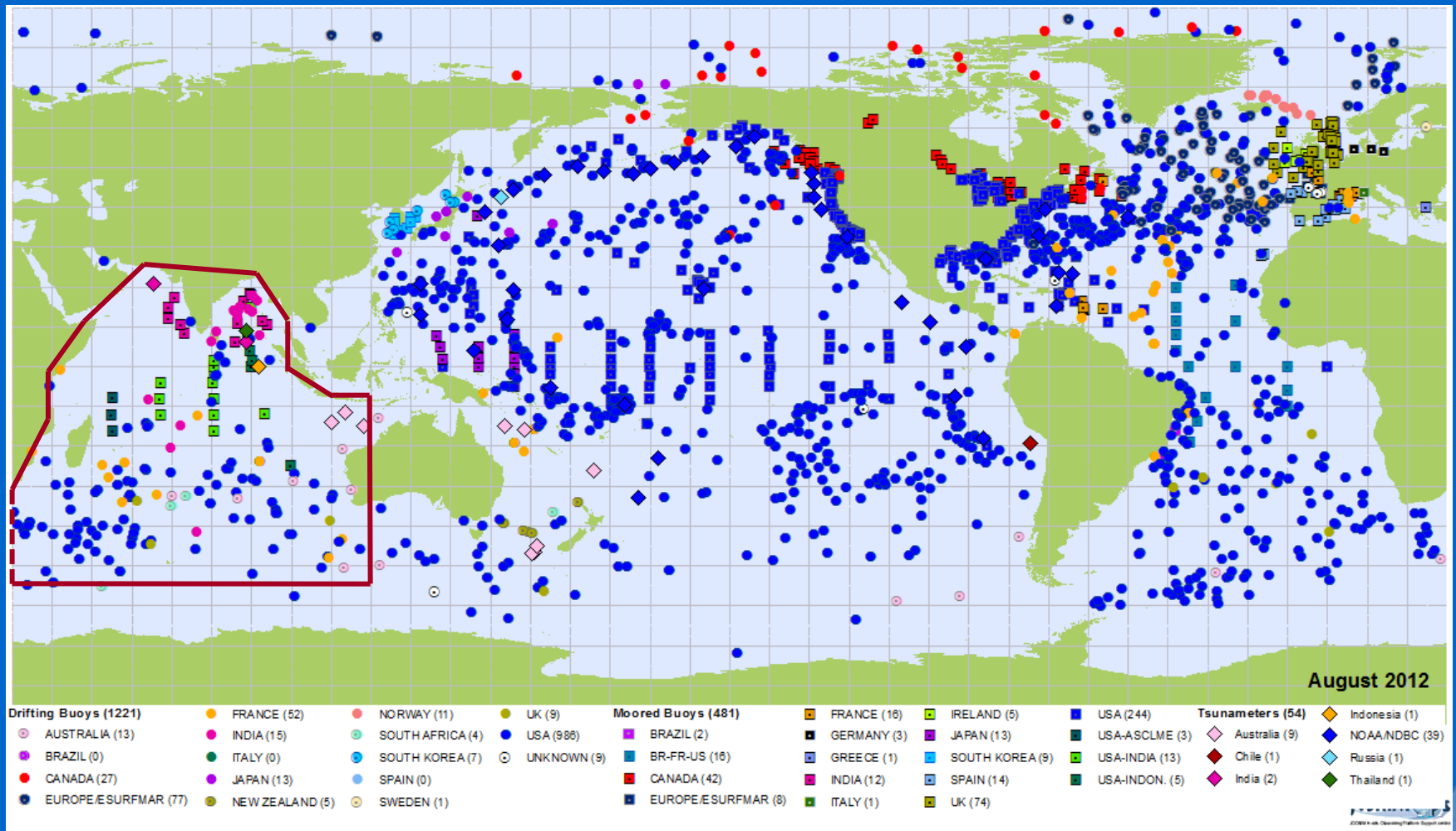
Programme Overview



Objective of the IBPIO

- To establish & maintain a network of platforms in the Indian Ocean to provide meteorological & oceanographic data for both real-time operational requirements & research purposes, including support for:
 - » the World Weather Watch Programme (WWW);
 - » the Global Climate Observing System (GCOS);
 - » the World Climate Research Programme (WCRP);
 - » the Global Ocean Observing System (GOOS);
 - » tropical cyclone forecasts & monitoring; and
 - » the research activities of participating institutions.

IBPIO Area of Interest





Programme Review & Plans



2011/12 Programme Review

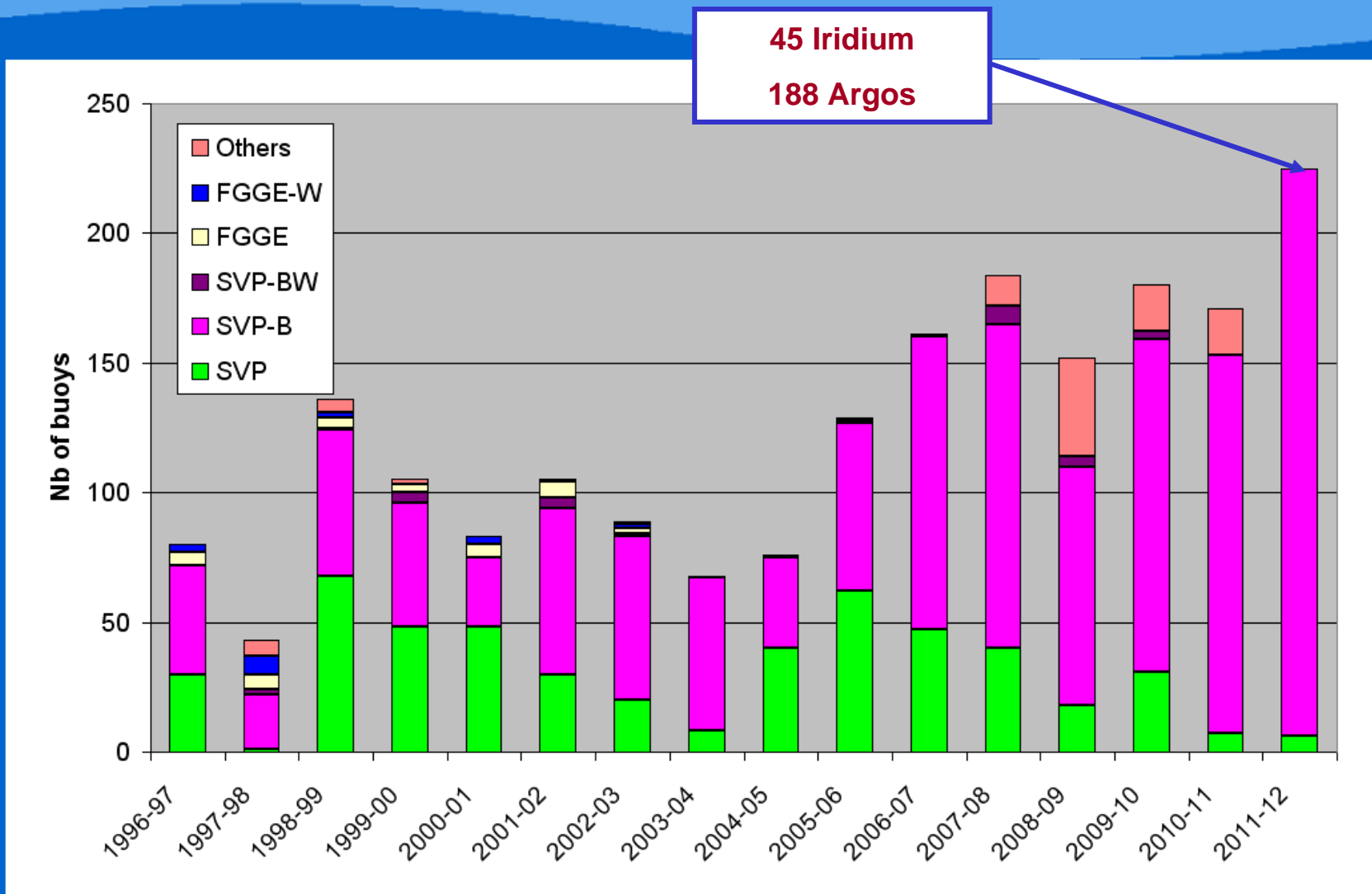
IBPIO CONSOLIDATED BUOY DEPLOYMENT PLAN - 2011/12

AGENCY	OWN PROGRAM					FOR GDP			TOTAL
	Moored	Other	SVP	SVP-B	SVP-BW	UPG	SVP	SVP-B	
GDC	0	0	30	58	0				88
ABOM	0	0	0	20	0	8	0	20	48
MF	0	0	0	0	0	40	0	0	40
NAVO	0	0	0	0	0	0	0	0	0
NIO	0	0	0	30	0	0	0	0	30
NIOT	12	0	0	0	0	0	0	20	32
SAWS	1	0	0	0	0	0	0	17	18
EMU	0	0	0	0	0	0	0	0	0
KMD	0	0	0	0	0	0	0	0	0
TIP	34	0	0	0	0	0	0	0	34
INCOIS	0	0	0	0	0	0	0	0	0
MMD	0	0	0	0	0	0	0	0	0
TOTAL	47	0	30	108	0	48	0	57	290

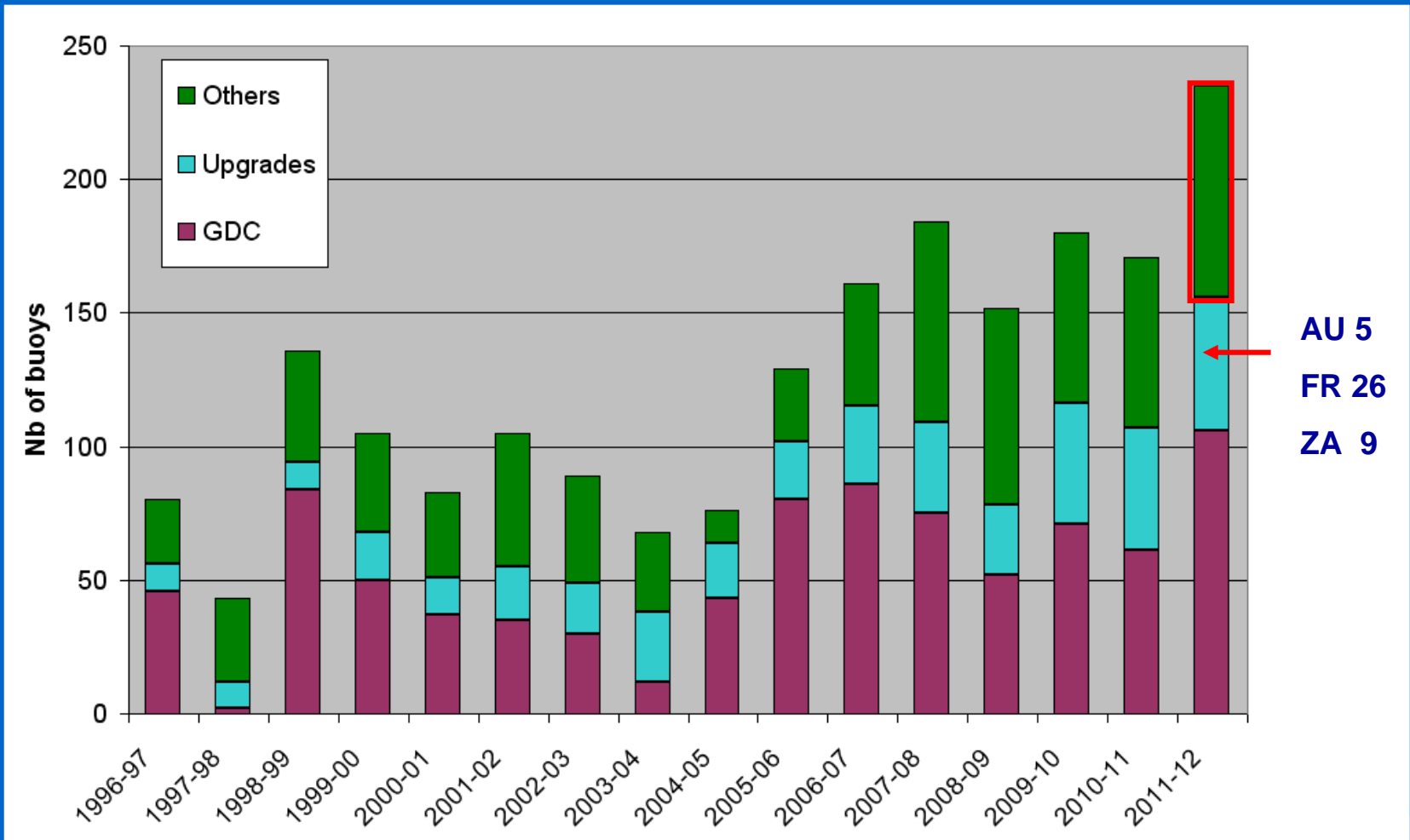
SUMMARY	
Moored	47
Other	0
SVP	30
SVP-B	213
SVP-BW	0

290

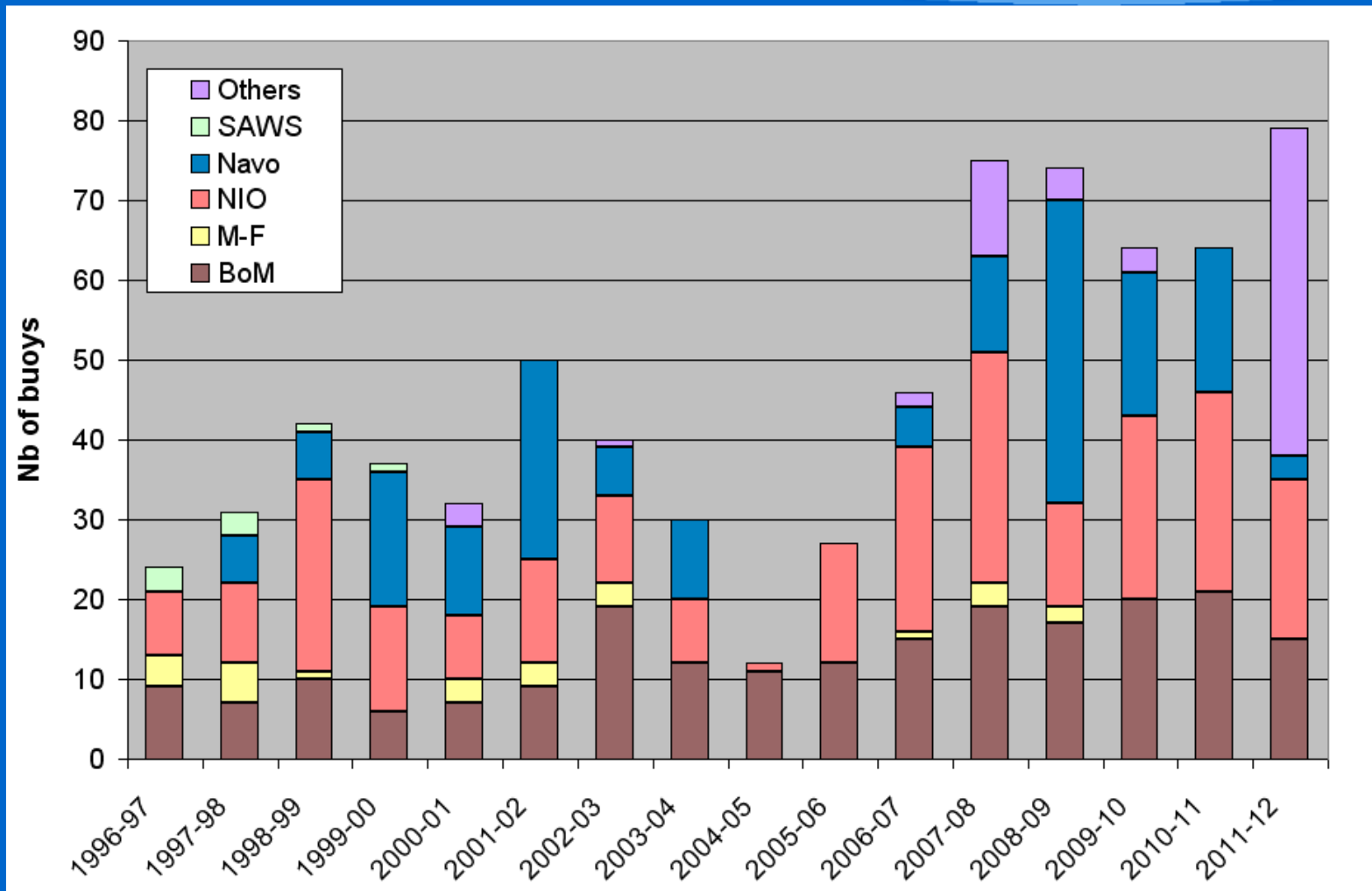
Drifting Buoy Deployments by Type



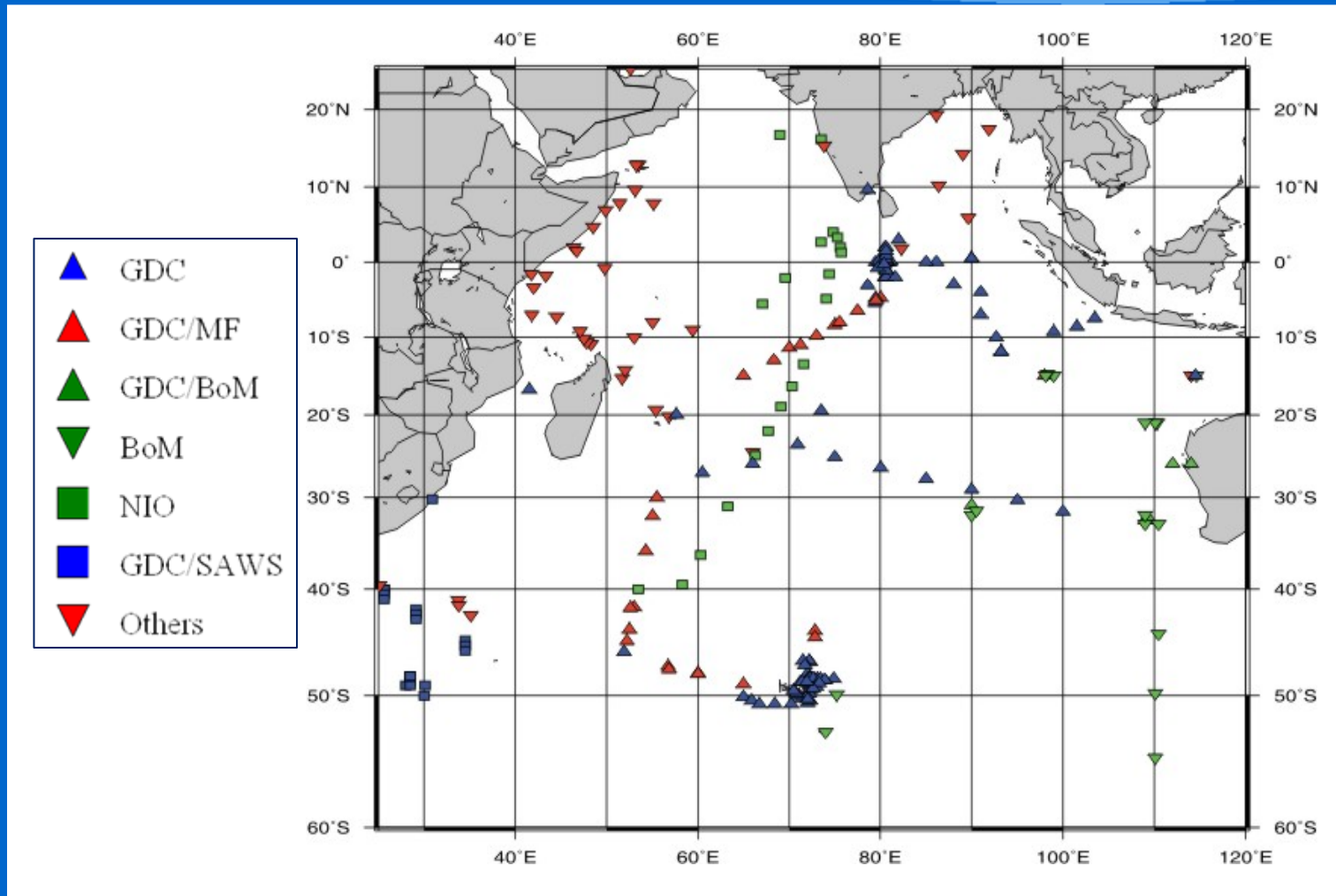
Drifting Buoy Contributions to IBPIO



Drifting Buoy Contributions by Others



2011/12 Drifting Buoy Deployment Locations



2012/13 Programme Plans

IBPIO CONSOLIDATED BUOY DEPLOYMENT PLAN - 2012/13

AGENCY	OWN PROGRAM					FOR GDP			TOTAL
	Moored	Other	SVP	SVP-B	SVP-BW	UPG	SVP	SVP-B	
GDC	0	0	0	60	0				60
ABOM	0	0	0	20	0	8	0	20	48
MF	0	0	0	0	0	40	0	0	40
NAVO	0	0	0	0	0	0	0	0	0
NIO	0	0	0	20	0	0	0	0	20
NIOT	16	0	0	0	0	0	0	0	16
SAWS	0	0	0	0	0	0	0	40	40
EMU	0	0	0	0	0	0	0	0	0
KMD	0	0	0	0	0	0	0	0	0
TIP	27	0	0	0	0	0	0	0	27
INCOIS	0	0	0	0	0	0	0	0	0
MMD	0	0	0	0	0	0	0	0	0
TOTAL	43	0	0	100	0	48	0	60	251

SUMMARY

Moored	43
Other	0
SVP	0
SVP-B	208
SVP-BW	0

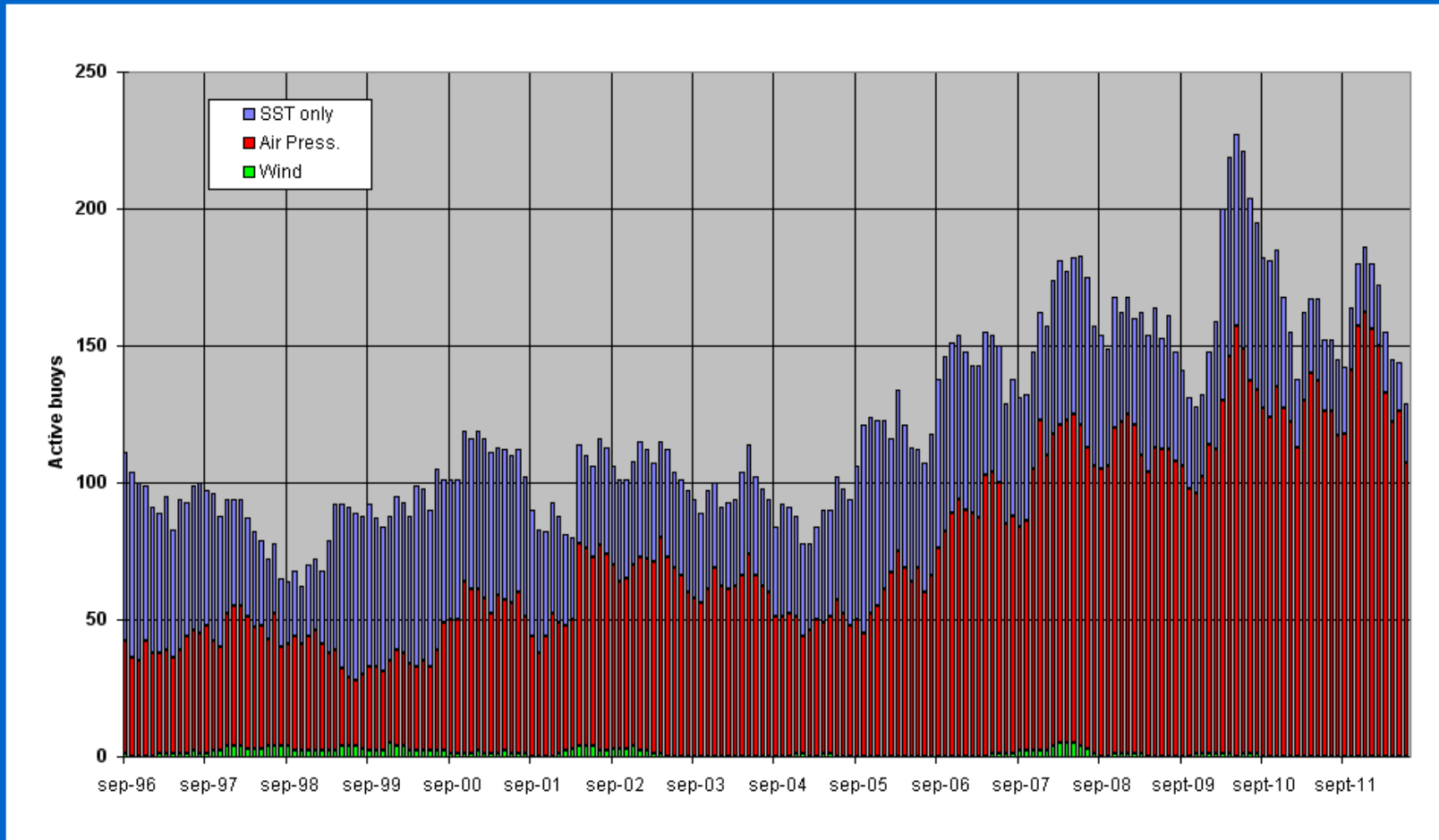
251



Status of the Networks

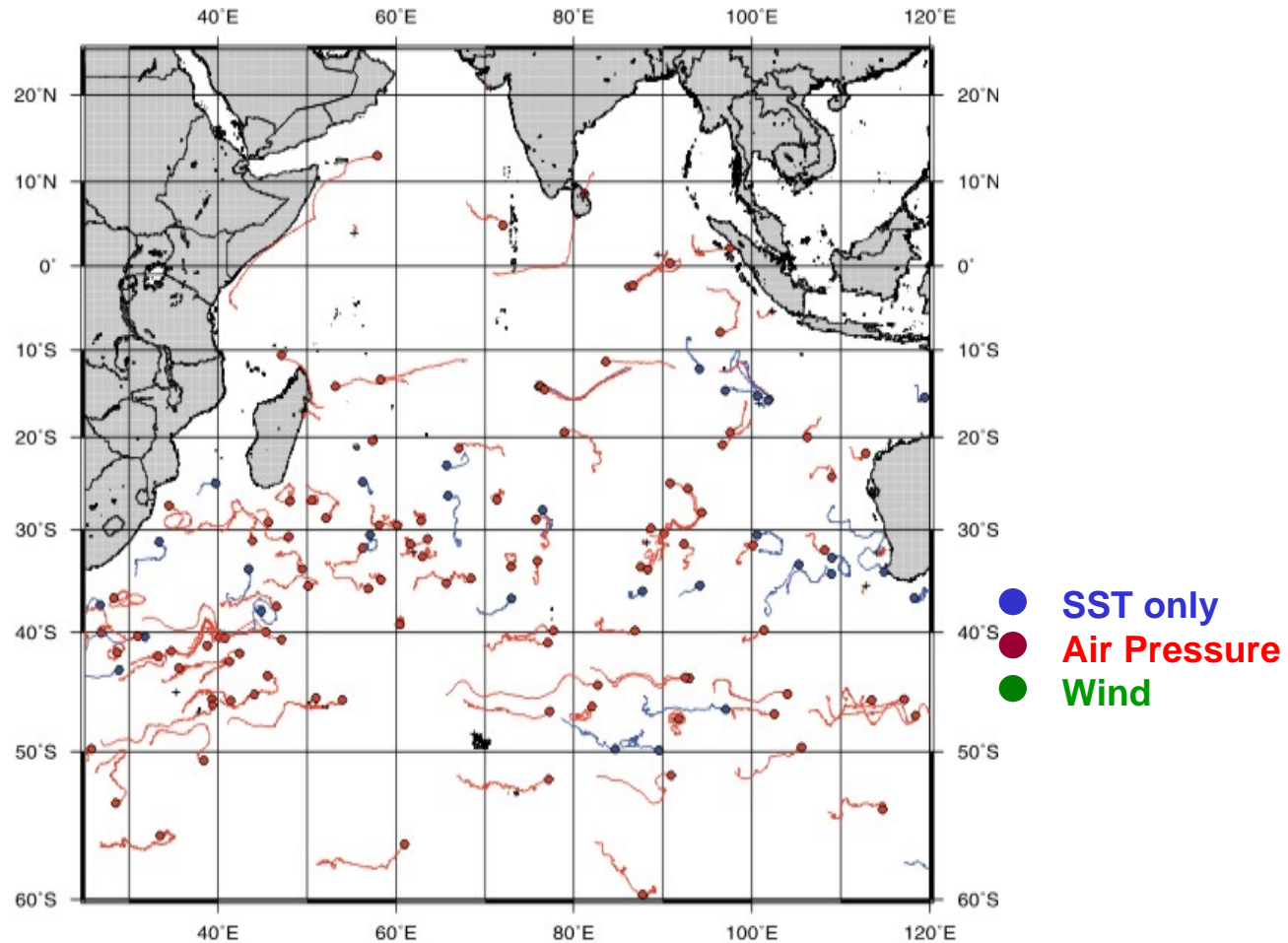


Drifting Buoy Network



Drifting Buoy Trajectories

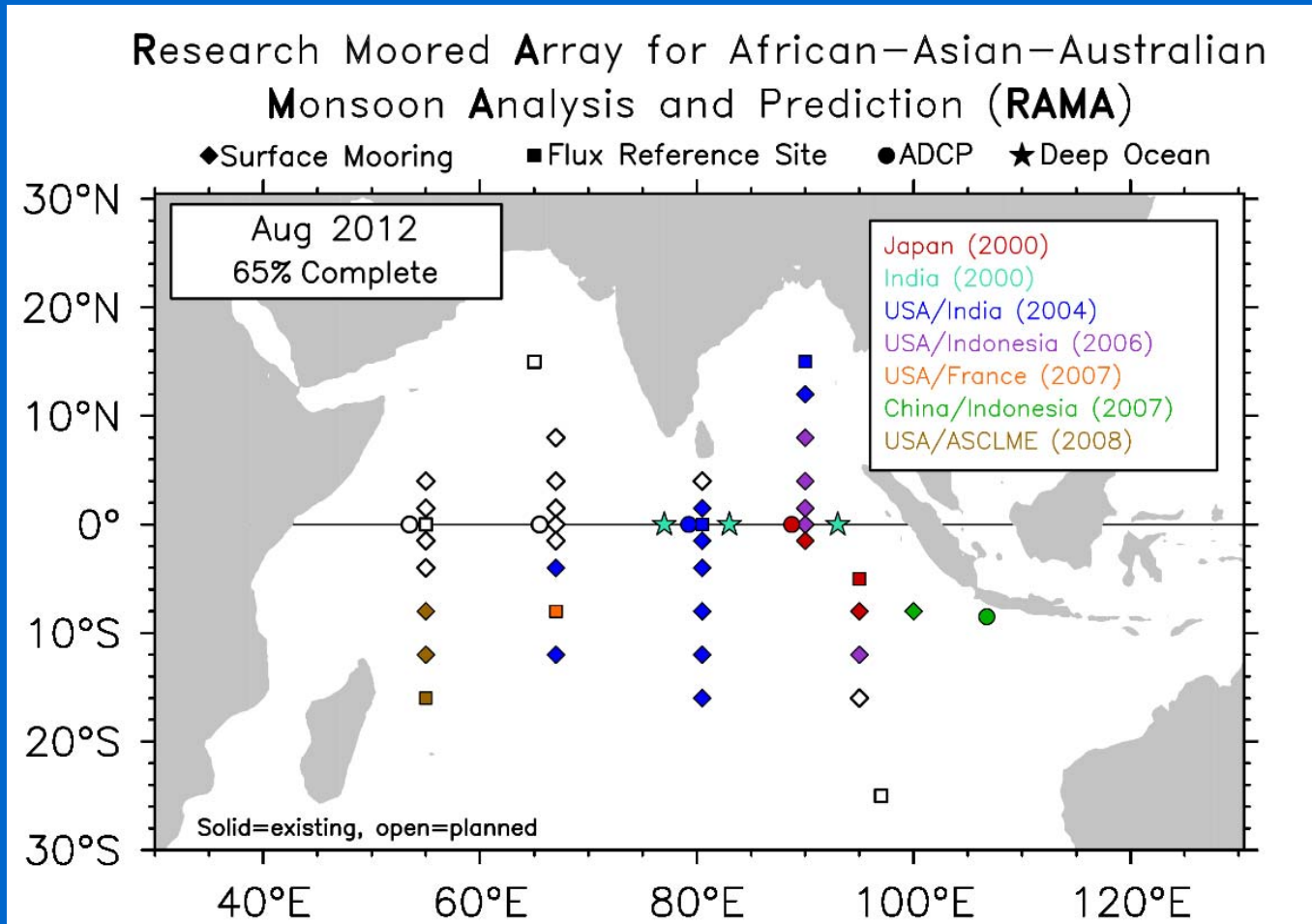
June 2012



NIOT Moored Buoy Network



RAMA Array

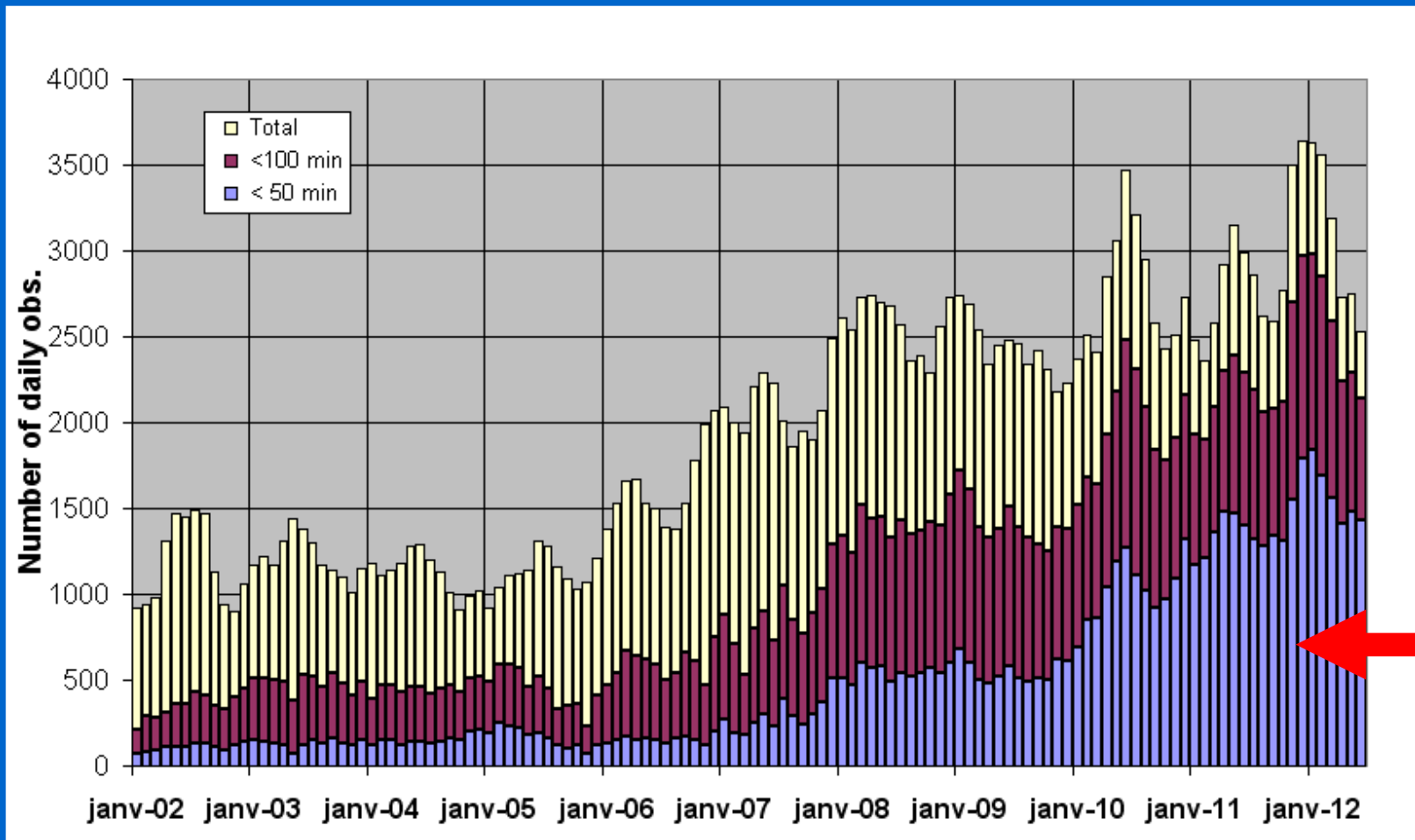




Performance Monitoring

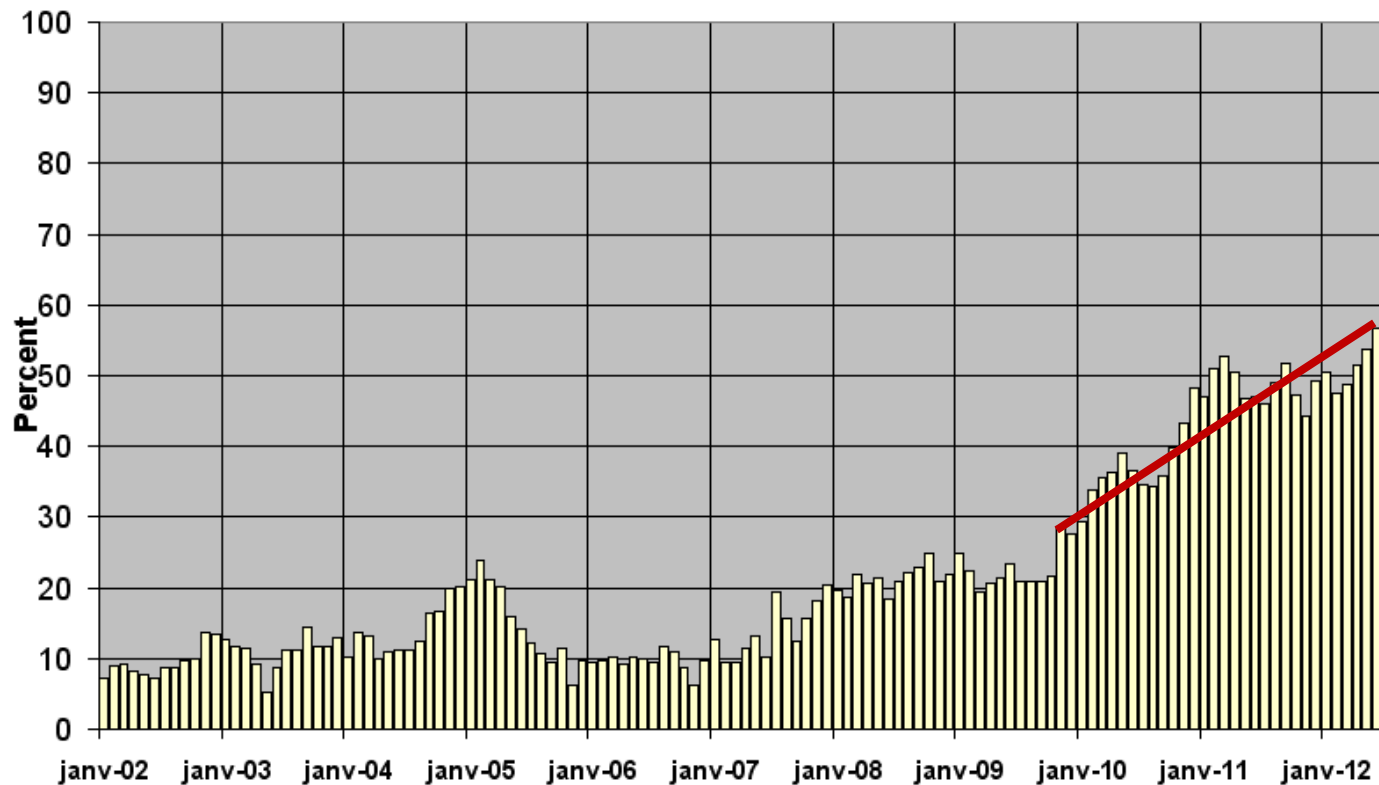


Data Availability – Drifting Buoys

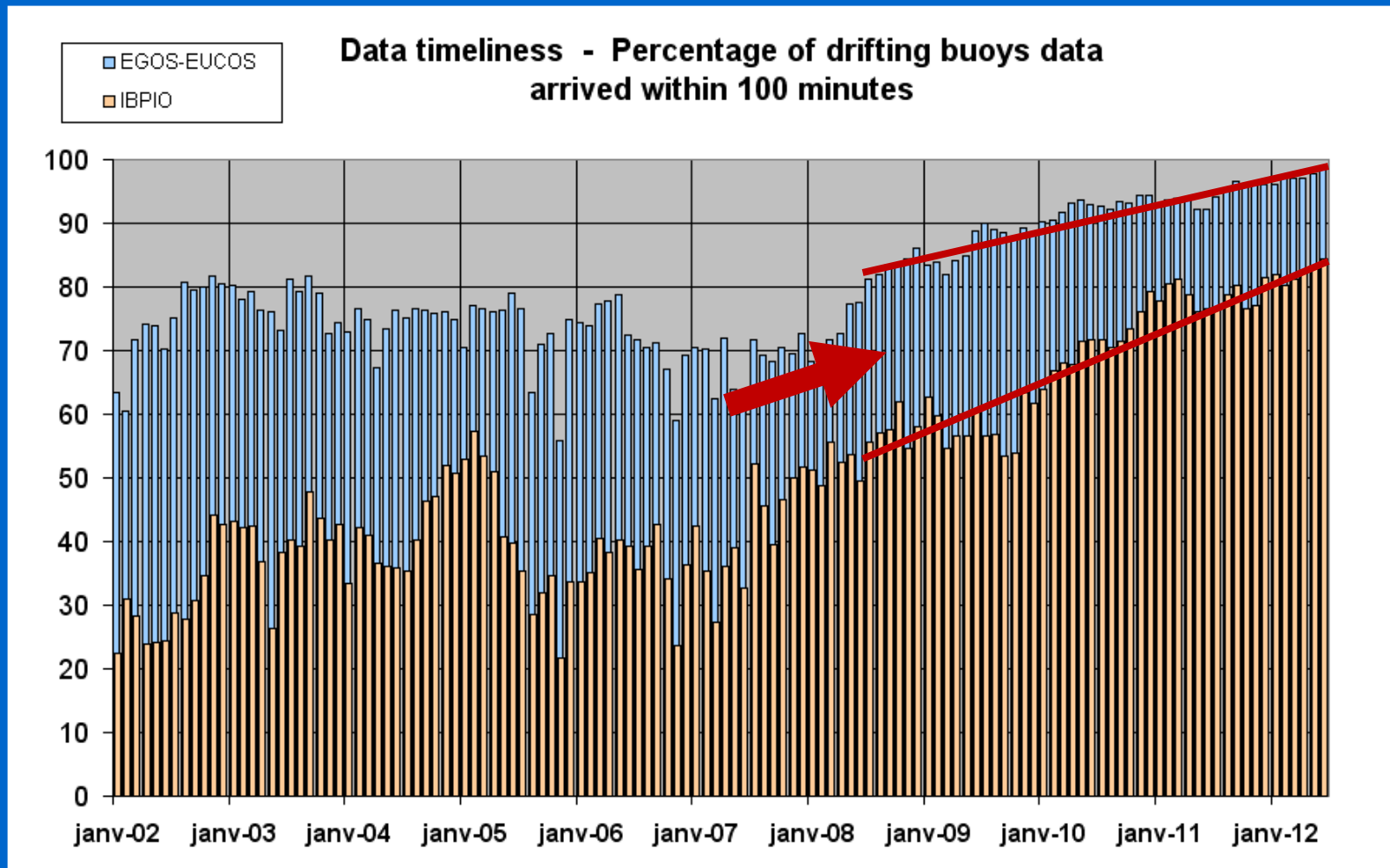


Data Timeliness – Drifting Buoys

IBPIO drifting buoys - Data timeliness
Percentage of data arrived within 50 minutes

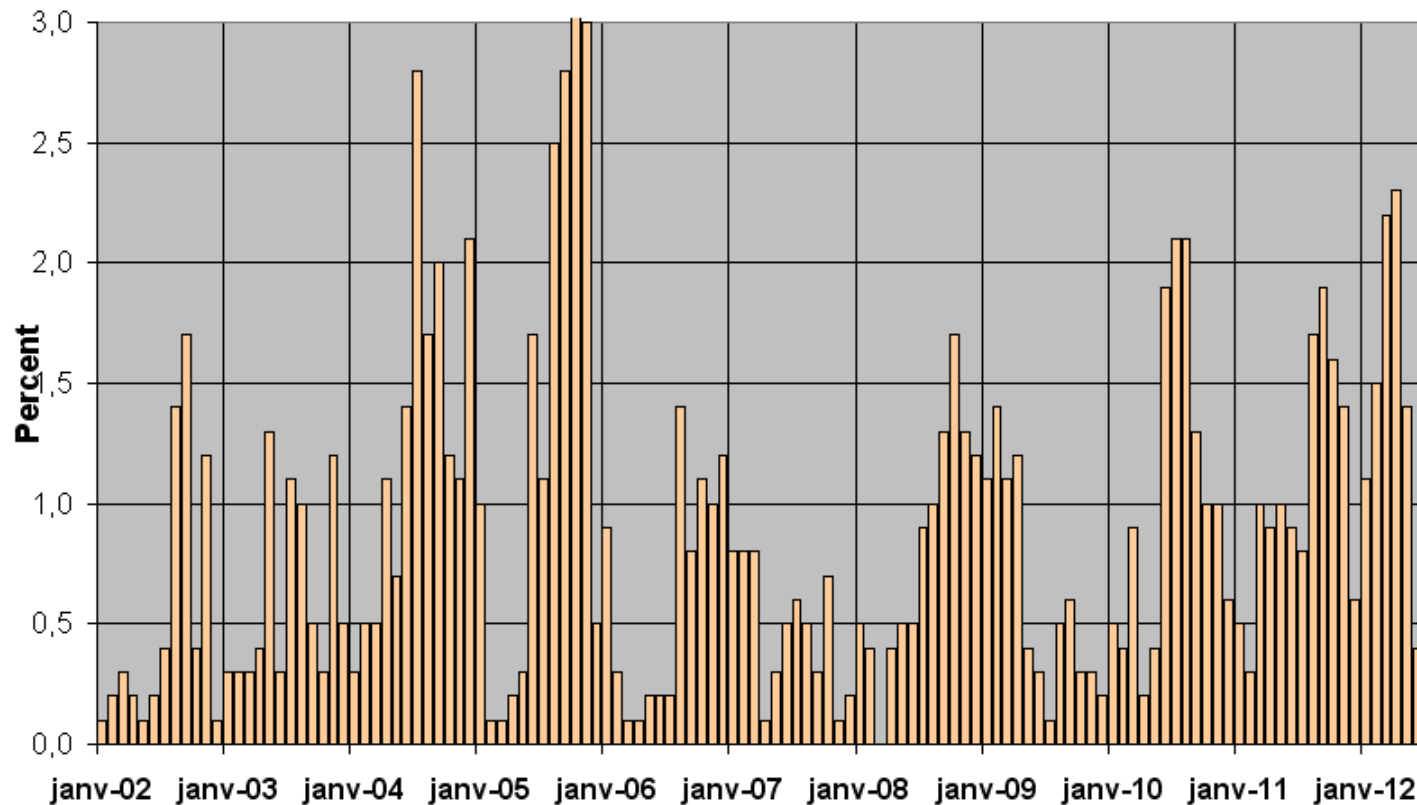


Data Timeliness Comparison – Drifting Buoys



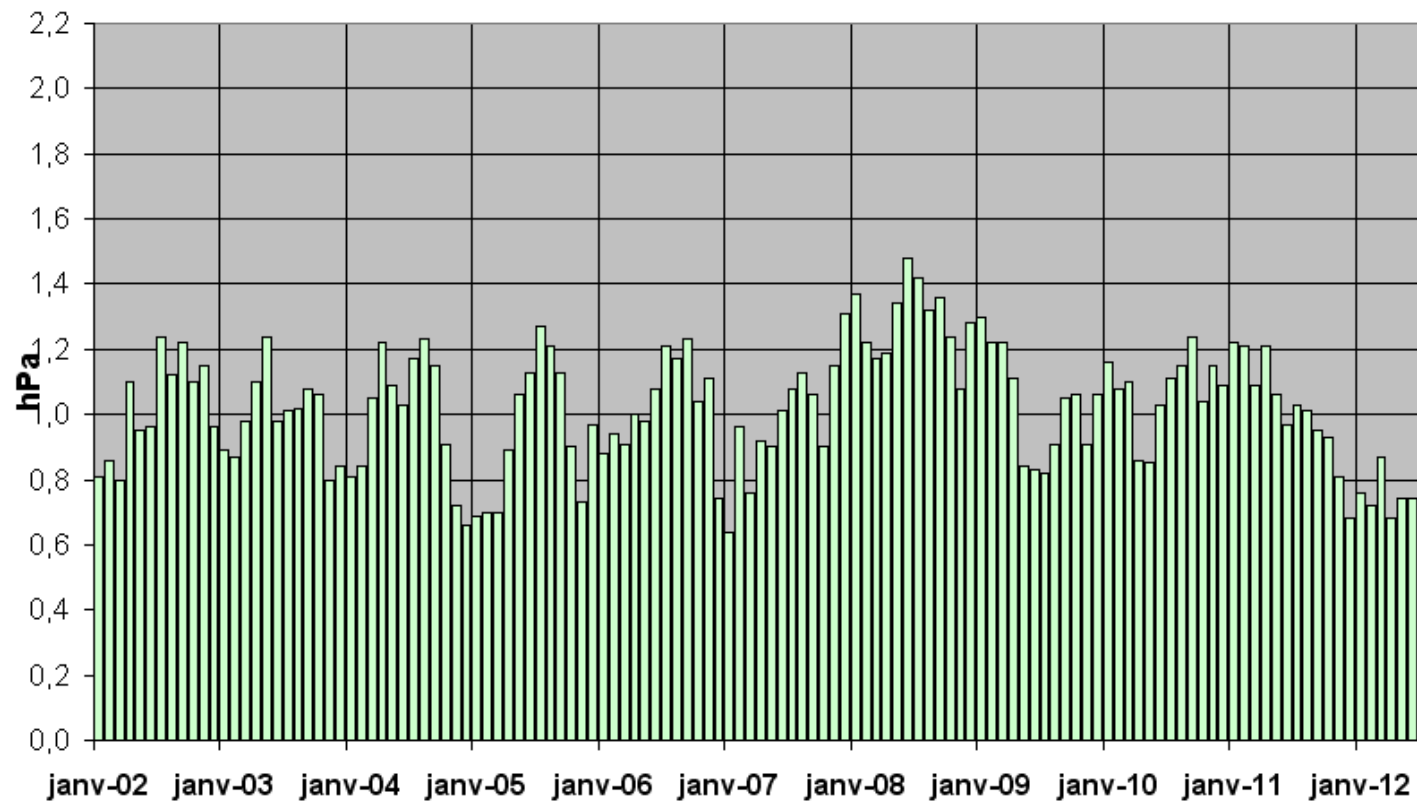
Gross Errors – Drifting Buoys

IBPIO drifting buoys - Data quality
Gross Errors of differences with the French model outputs

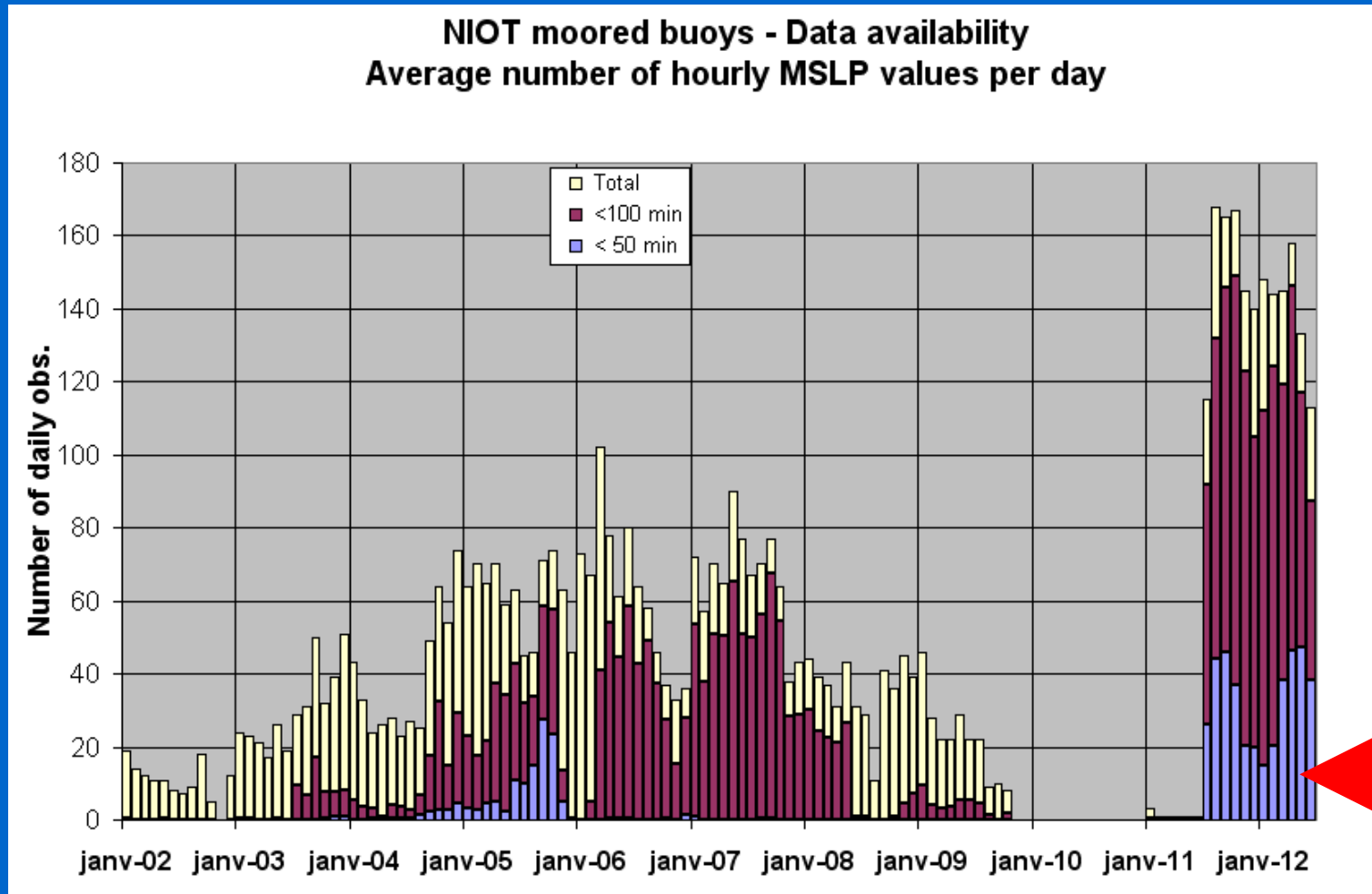


MSLP RMS Errors – Drifting Buoys

IBPIO drifting buoys - Data quality
RMS of differences with the French model outputs



Data Timeliness – NIOT Moored Buoys





Participants & Meetings



Participants in the IBPIO

AGENCY		JOINED
Australian Bureau of Meteorology	(ABOM)	1997
Global Drifter Center, NOAA/AOML, USA	(GDC)	1997
Météo France	(MF)	1997
National Institute of Oceanography, India	(NIO)	1997
South African Weather Service	(SAWS)	1997
National Institute of Ocean Technology, India	(NIOT)	2001
Navoceano, USA	(NAVO)	2001
Eduardo Mondlane University, Mozambique	(EMU)	2007
Tropical Moored Buoy Implementation Panel	(TIP)	2007
Kenya Meteorological Department	(KMD)	2008
Indian National Centre for Ocean Information Services	(INCOIS)	2008
Malaysian Meteorological Department	(MMD)	EOI
Mauritius Meteorological Service	(MMS)	EOI

IBPIO Programme Meetings

SESSION	DATE	LOCATION
IBPIO-1	Sept 1996	St Denis, La Reunion.
IBPIO-2	July 1997	Perth, Australia.
IBPIO-3	July 1998	Kuala Lumpur, Malaysia.
IBPIO-4	July 1999	Cape Town, South Africa.
IBPIO-5	Oct 2001	Perth, Australia (with DBCP-17).
IBPIO-6	July 2002	Cape Town, South Africa (with ISABP-IX).
IBPIO-7	Oct 2004	Chennai, India (with DBCP-20).
IBPIO-8	Oct 2005	Buenos Aires, Argentina (with DBCP-21).
IBPIO-9	Oct 2006	La Jolla, USA (with DBCP-22).
IBPIO-10	Oct 2007	Jeju, Republic of Korea (with DBCP-23).
IBPIO-11	Oct 2008	Cape Town, Republic of South Africa (with DBCP-24)
IBPIO-12	Sept 2009	Paris, France (with DBCP-25)
IBPIO-13	Sept 2010	Oban, Scotland (with DBCP-26)
IBPIO-14	Sept 2011	Geneva, Switzerland (with DBCP-27)
IBPIO-15	Oct 2012	Fremantle, Australia (with DBCP-28)

IBPIO Website



Summary

News

Operations

Participants

Management

Contacts

Links

International Buoy Programme for the Indian Ocean

An Action Group of the
Data Buoy Cooperation Panel (DBCP)

Why ?
[Programme Objectives](#)


[Programme Management](#)

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<http://www.meteo.shom.fr/ibpio/>

