



ISABP REPORT

Presented by:

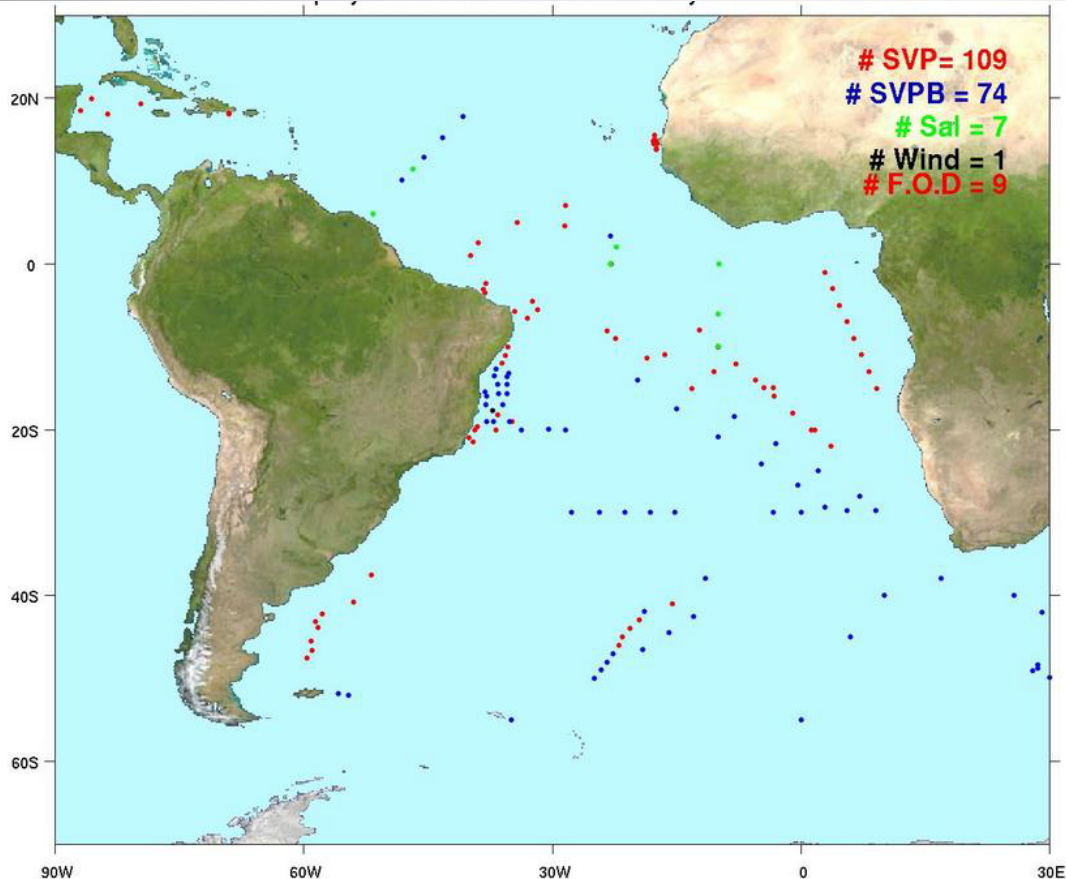
Mayra Pazos

And

Sonia Cavalcante

DBCP-28, October 2-6, 2012 – Fremantle, Australia

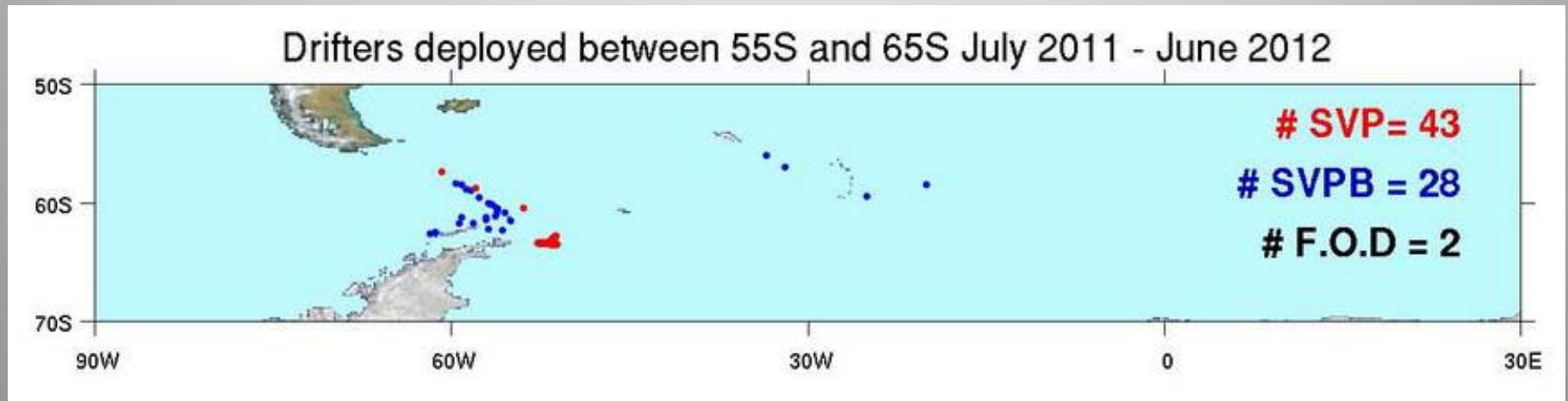
Drifters Deployed in the South Atlantic July 2011 – June 2012



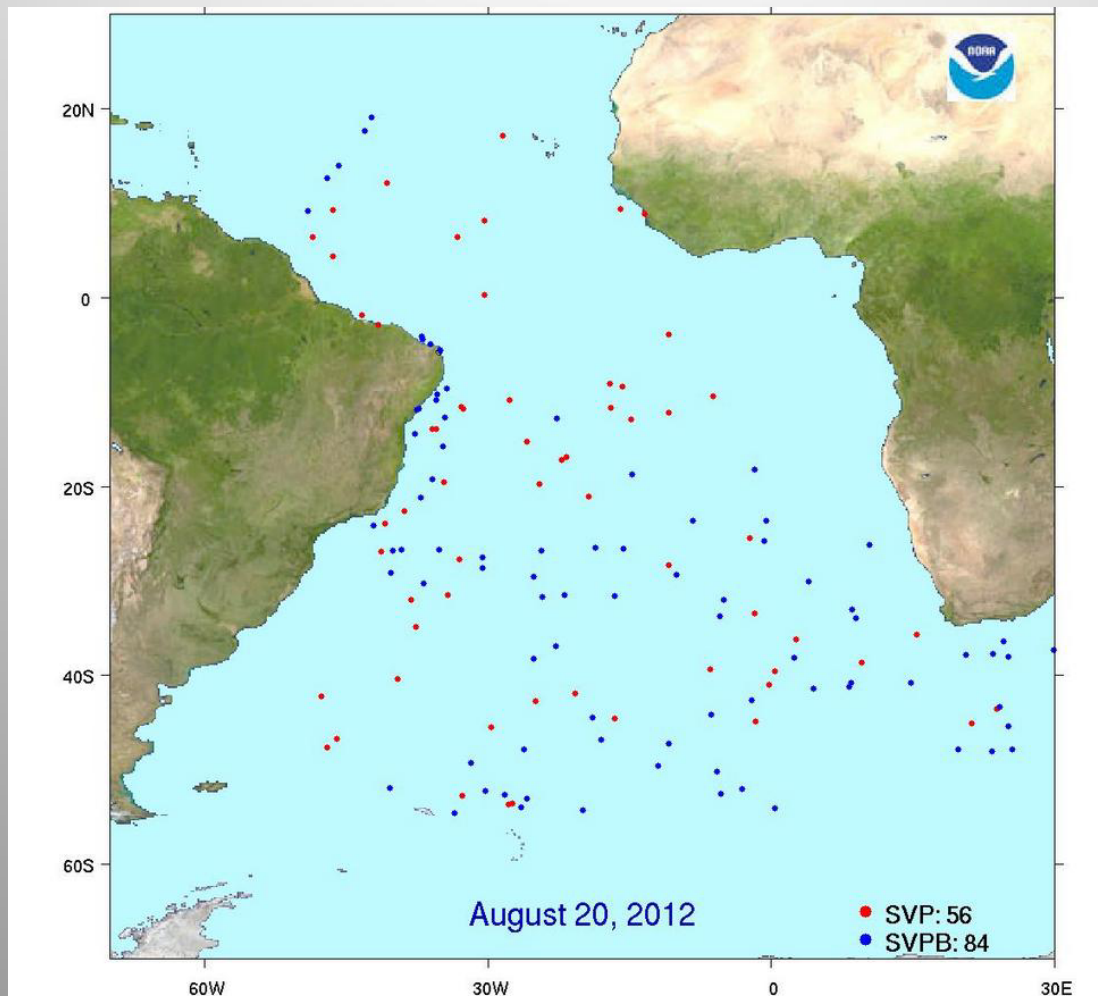
- A total of 191 drifters were deployed in the area, 9 of which failed on deployment.
- **109 SVP, 74 SVP-B, 7 SVP-BS, 1 SVP-BW**
- Deployments were carried out by:
 - US vessels
 - Brazilian Navy
 - South Africa Weather Service
 - Falkland Islands fishing vessels
 - Tristan da Cunha
 - University of Cape Town
 - University of Ghana
 - South Thule fishing vessels
 - ...others

Drifters deployed south of 55° South

There were a total of 71 drifters deployed mostly for specific projects, south of 55° South, shortly, they will make it into the ISABP region



Status of the ISABP Drifter Array as of August 20, 2012



Total: 140

SVP: 56

SVPB: 84

=====
Note: There are more SVPB in the array than last year:

SVP:78

SVPB: 69

Total: 147

The number of barometer drifters include those upgraded by participating countries

Report from South Africa Weather Service

- The South African Weather Service continues its partnerships with Tristan da Cunha and South Georgia, as well as a local fishing company, Ovenstone, for the use of their fishing vessels, to deploy drifters handed to them in support of the ISABP, and to allow to fix a buoy on both Tristan da Cunha and South Thule Islands. SAWS would like express immense gratitude for that.
- SAWS will deploy 8 drifters on the yearly Gough Island Cruise in September/October 2012.
- The Falklands Fisheries Department will deploy drifters from July 2012 onwards as well as the Tristan da Cunha vessels

GDP Deployment Plans for 2013

➤ The GDP deployment plans from June 1, 2012 – May 31, 2013 are as follows:

Tropical Atlantic (20⁰S – 30⁰N):

SVP=250 SVPB=50

(upgraded by AOML or Meteo-France

)

Extra Tropical Atlantic (40⁰S – 20⁰S):

SVP=20 SVPB=55

(Upgraded by Brazil, AOML, SAWS)

Southern Atlantic (60⁰S – 40⁰S):

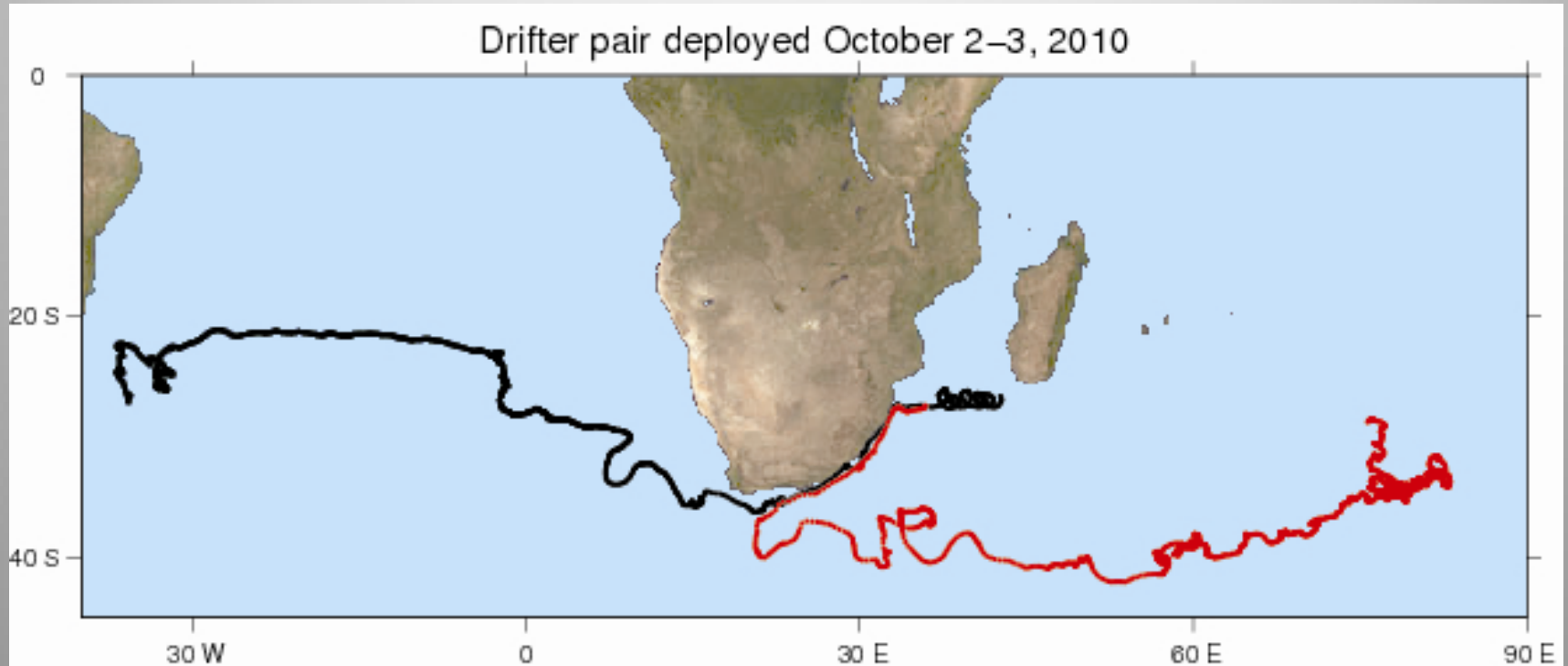
SVP=0 SVPB=115

(Upgraded by AOML)

Data Management

- All data from the ISABP region are disseminated via GTS as soon as drifters are deployed. These data are monitored and taken off GTS when sensors stop giving good quality data.
- Delayed mode data are quality controlled at the GDP Drifter Data Assembly Center, AOML, and available through the DAC and ISDM web pages

Sharing the Oceans



Report from Brazil



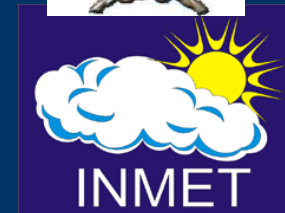
Programa GOOS BRASIL

SISTEMA BRASILEIRO DE OBSERVAÇÃO DOS OCEANOS E CLIMA (GOOS-BRASIL)



• Approved, by Interministerial Commission for the Sea Resources (CIRM) held on April 30th, 1997.

- PNBOIA
- GLOSS
- PIRATA
- MOVAR
- ONDAS



PROGRAMA GOOS - BRASIL

Sistema Brasileiro de Observação dos Oceanos e Clima

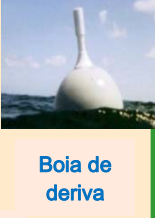
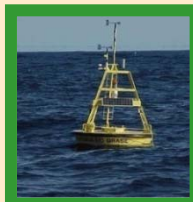
PIRATA - Prediction and Research moored Array in the Tropical Atlantic



Boia fixa ATLAS

PNBOIA Programa Nacional de Boias;

Boia fixa Plataforma



Boia de deriva



Boia fixa Costeira

REDE ONDAS



Ondógrafo



NOc Antares (H-40)



NHoF Alte Graça Aranha (H-34)



NHo Amorim do Valle (H-35)



NB Comte. Varella (H-18)

US Dept of State Geographer
 © 2012 Inav/Geosistemas SRL
 Data SIO, NOAA, U.S. Navy, NGA, GEBCO
 © 2012 MapLink/Tele Atlas



Intersectional Activities



- Including one moored buoy in the Operational Program (Fortaleza –NE coast), seeking a covering of all Brazilian coast on a interval of 500 km;
- Acquisition of two new buoys to have the network completed;
- Planning upgrade and deployment of GDP drifting buoys;
- Acquisition of 10 ARGO drifter and preparing a deployment strategy.



MOORED BUOYS NETWORK



- **Continental Shelf Buoy (200m)**

- To be acquired:

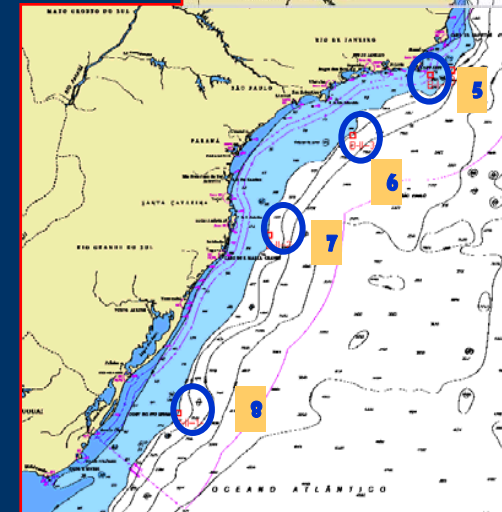
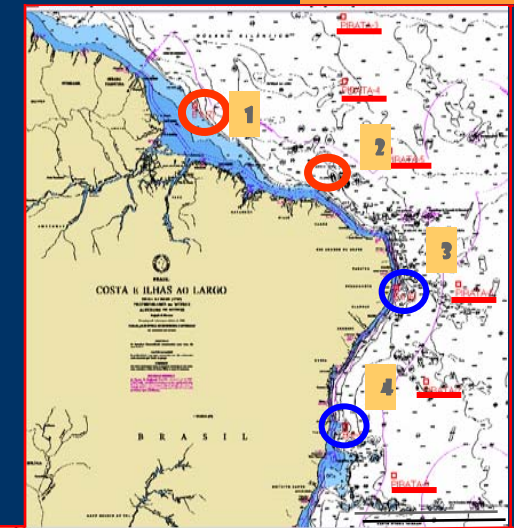
- 1-Barra Norte – AM
- 2-Fortaleza– CE

- **Operational:**

- 3 -Recife - PE
- 4-Porto Seguro – BA
- 5-Cabo Frio – RJ
- 6-Platô de Santos – SP
- 7-Santa Catarina

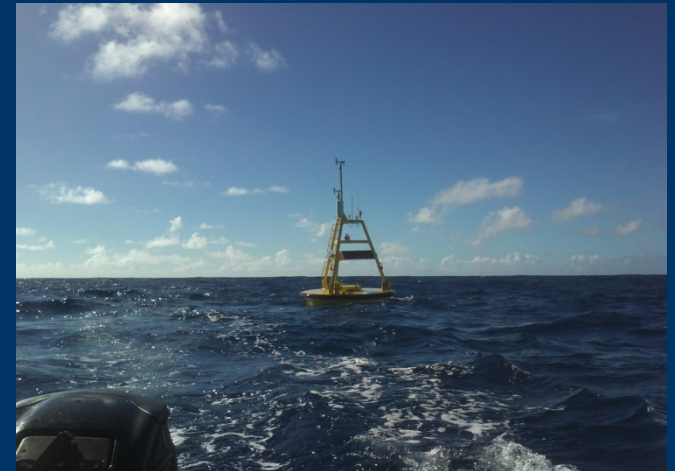
- **Coastal Buoys (70m)**

- 5-Cabo Frio – RJ –





activities on moored buoys



Deployment of 4 buoys :one replacement, one reestablishment and two new covering. As a result we have now 6 operating buoys.



Data dissemination – moored buoys

PNBOIA

- GTS (Global Telecommunication System) (via Argos)

(www.wmo.int/web/www/TEM/gts.html);

- Sítio do Argos-cls (www.argos-system.org)

- CHM webpage – Meteorologia – Previsão - Dados Observacionais:

<https://www.mar.mil.br/dhn/chm/meteo/prev/dados/dados.htm>



Centro de Hidrografia da Marinha - Serviço Meteorológico Marinho - Microsoft Internet Explorer fornecido por CHM

Programa PNBOIA - Bóia de Santa Catarina WMO 31374 ARGOS 69150

Selecione o período desejado. (Disponível a partir de JAN 2011)

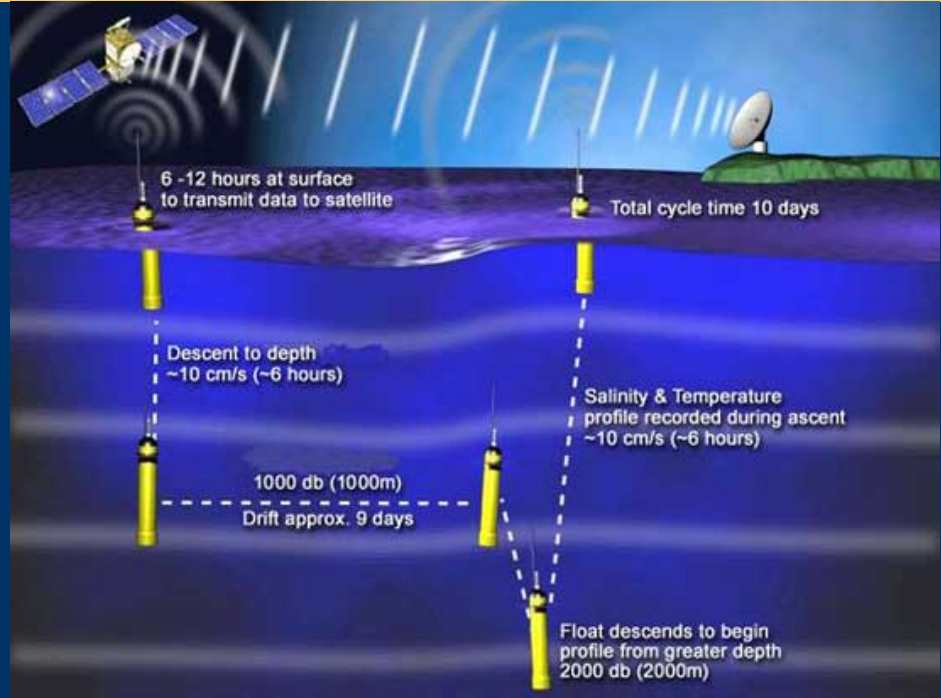
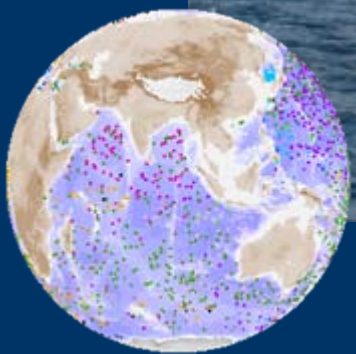
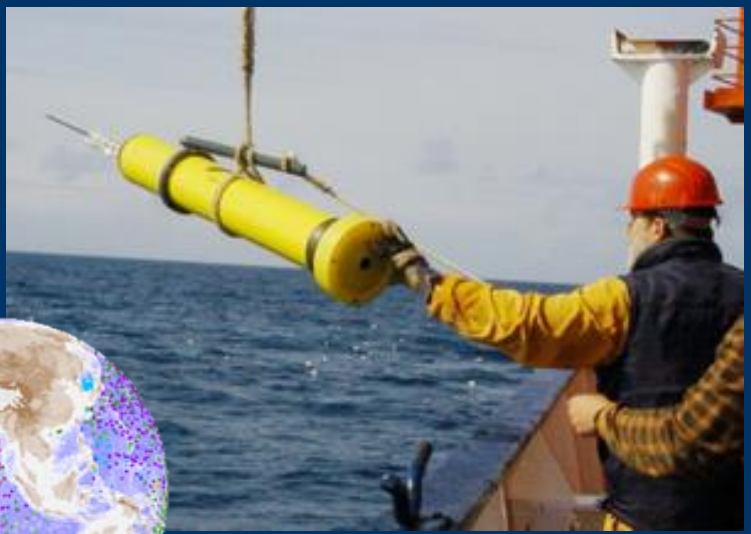
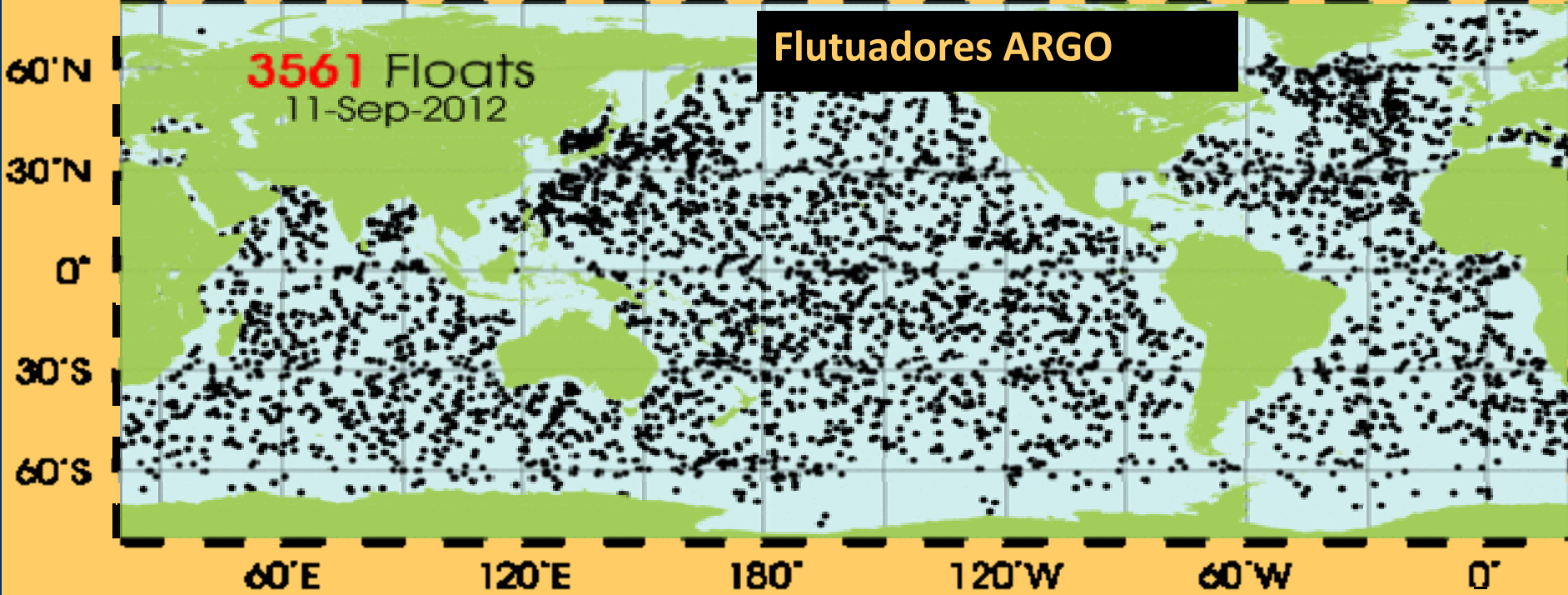
Mês: março Ano: 2012 ok

ID ARGOS	DATA-HORA DO PRIMEIRO GRUPO DE INFORMAÇÕES	POSIÇÃO (0) fora de posição (1) na posição	VOLTAGEM DA BATERIA (V)	ALAGAMENTO (0) normal (1 -2 -3) alagada	VENTO VELOC sensor 3,7 m (m/s)	RAJADAS (m/s)	VENTO DIREÇÃO (º)	VENTO VELOC sensor 4,7 m (m/s)	RAJADAS (m/s)	VENTO DIREÇÃO (º)
ARGOS ID	DATE-TIME FIRST INFORMATION GROUP	POSITION (0) out of position (1) in the position	BATTERY VOLTAGE (V)	FLOODING (0) normal (1 -2 -3) waterlogged	WIND SPEED sensor 3,7 m (m/s)	GUSTS (m/s)	WIND DIRECTION (º)	WIND SPEED sensor 4,7 m (m/s)	GUSTS (m/s)	WIND DIRECTION (º)
69150	2012/03/05 11:12:20	1	13,50	0	7	9	216	7	8	216
69150	2012/03/05 06:32:53	1	12,50	0	7	10	207	7	9	207
69150	2012/03/05 04:52:20	1	12,60	0	8	9	231	8	9	228
69150	2012/03/05 04:30:17	1	12,60	0	8	9	231	8	9	228
69150	2012/03/05 01:29:01	1	12,60	0	8	10	246	8	9	246
69150	2012/03/04 18:48:31	1	13,70	0	6	7	240	6	7	237
69150	2012/03/04 17:33:24	1	13,70	0	5	6	243	5	6	240
69150	2012/03/04 15:21:32	1	13,70	0	5	6	231	5	6	228
69150	2012/03/04 11:21:34	1	13,50	0	3	4	243	3	4	240
69150	2012/03/04 06:11:48	1	12,50	0	4	5	249	4	6	249
69150	2012/03/04 02:59:21	1	12,60	0	6	7	276	5	7	273

PLANILHA 1 PLANILHA 2

Flutuadores ARGO

3561 Floats
11-Sep-2012





REDE ONDAS – Is it possible wave data into GTS?

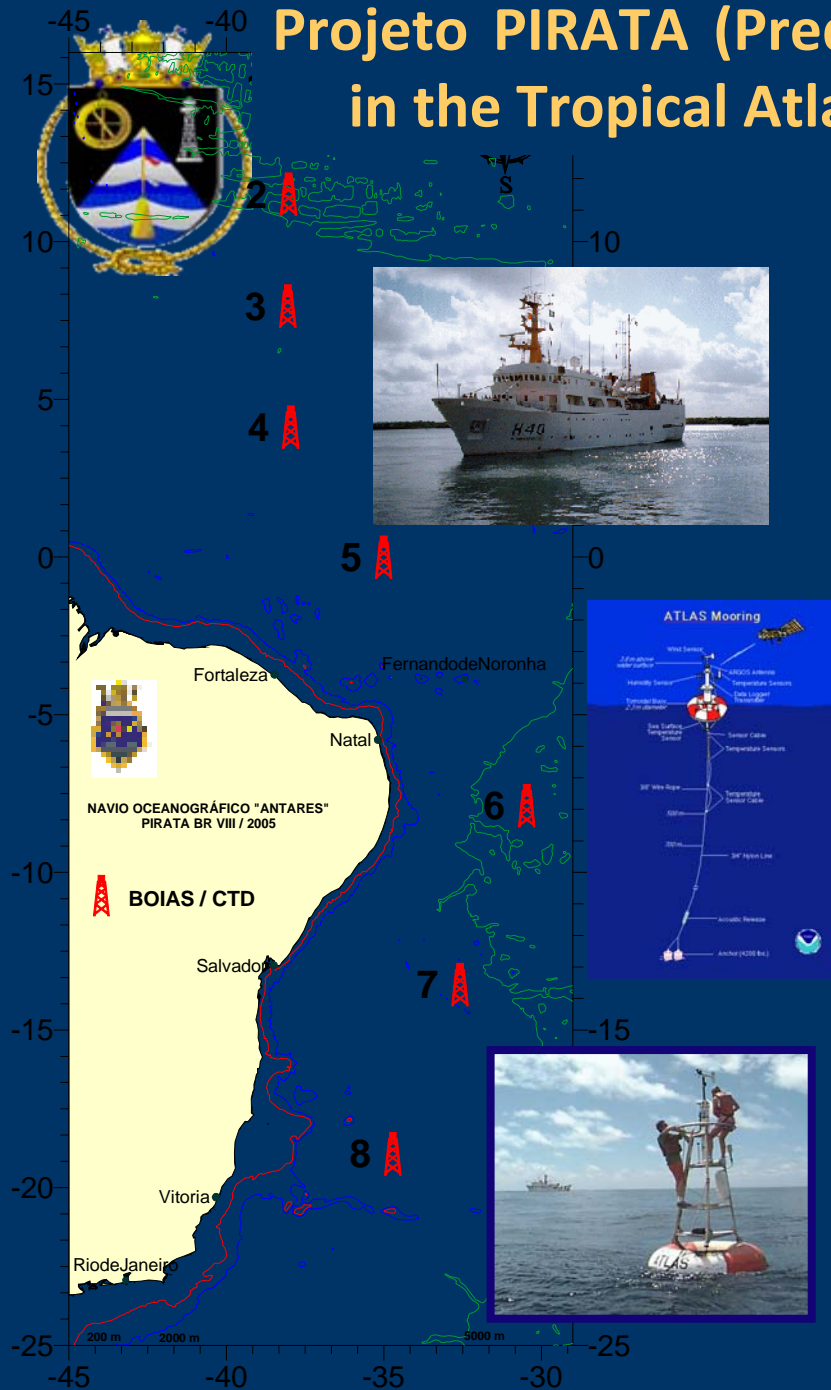


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Projeto PIRATA (Prediction and Research Moored Array in the Tropical Atlantic)



State members:

Brasil – Instituto Nacional de Pesquisas Espaciais – INPE / Diretoria de Hidrografia e Navegação – DHN;

EUA – National Oceanic and Atmospheric Administration Office of Global Programs – NOAA/OPG; and

França – Institut de Recherche pour le Développement - IRD e Météo-France of France.

Coordination : Instituto Nacional de Pesquisas Espaciais (INPE) - Centro de Previsão de Tempo e Estudos Climáticos ([CPTEC](#))

Execution : DHN – Comissões anuais do Noc. Antares para manutenção das cinco bóias fundeadas na zona equatorial e três bóias fundeadas ao longo da costa leste/nordeste de Brasil, e equipes do INPE e parceiros.



Página do GOOS- Brasil



http://www.goosbrasil.org/produtos/pnboia_data.html

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Dados

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Acesse os dados do PNBOIA

Clique no nome do arquivo para acessar os dados.

ARGOS ID	#WMO	Lançamento	Dados
78859	31786	XX/10/2009	bd31786
71506	31785	XX/10/2009	bd31785
71502	31784	XX/10/2009	bd31784
78868	31779	01/09/2009	bd31779
71871	31778	02/09/2009	bd31778
71870	31921	01/08/2009	bd31921
78866	31745	XX/07/2009	bd31745
78865	31742	XX/07/2009	bd31742
78864	31741	XX/07/2009	bd31741
71859	31758	22/06/2009	bd31758
71858	31756	21/06/2009	bd31756
71857	31755	21/06/2009	bd31755
71856	31706	21/06/2009	bd31706
71882	31548	15/06/2009	bd31548
71883	31998	14/06/2009	bd31998

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http://oceanlan.org/

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Projetos

As atividades de monitoramento do Atlântico Sudoeste Superior e tropical são realizadas através dos seguintes projetos:

- [GOOS-BRASIL](#)
- [Antares](#)
- [MOVAR](#)
- [Argo](#)

Links úteis

Outros dados operacionais podem ser também obtidos através destes sites:

Bem-vindo à pagina da OCEATLAN!

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A Aliança Regional para a Oceanografia no Atlântico Sudoeste Superior e Tropical (OCEATLAN) representa o esforço regional de instituições da Argentina, Brasil e Uruguai, em prol do desenvolvimento da oceanografia operacional que pauta as atividades previstas para execução no âmbito do Sistema de Observação do Oceano Global (GOOS).

As atividades da OCEATLAN incorporam projetos que visam o

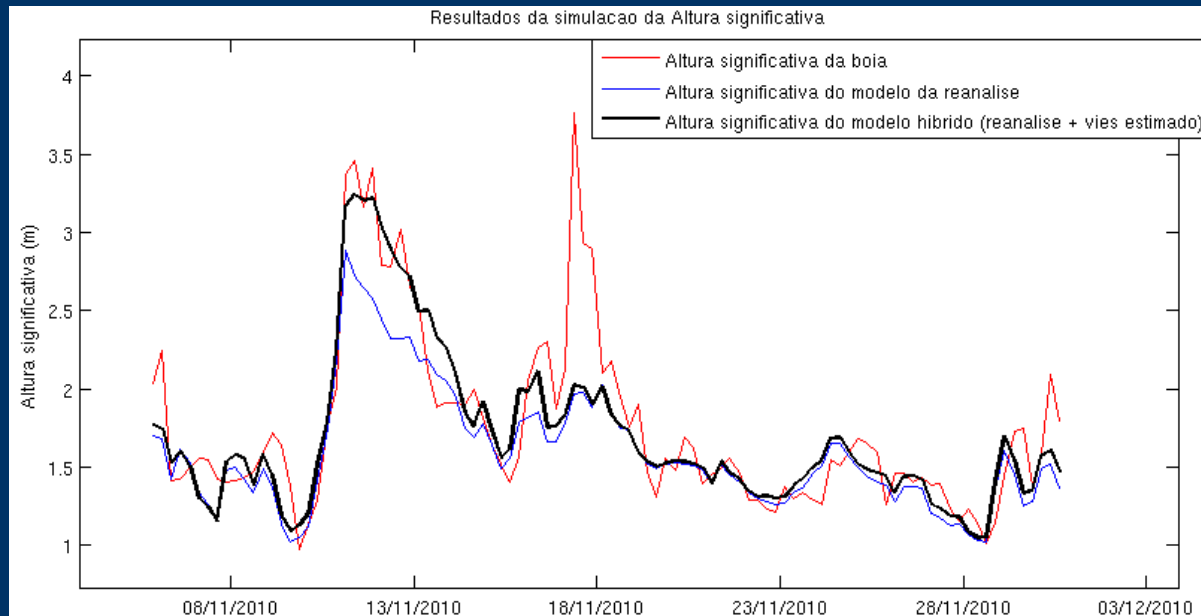
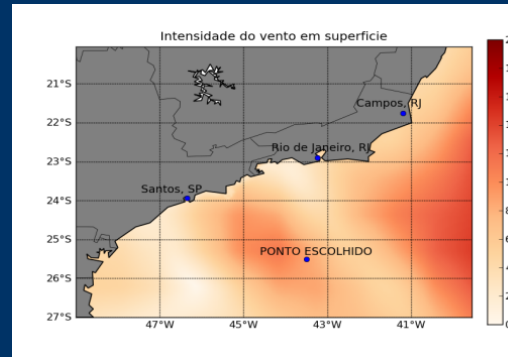
Done

Internet 100%

start 2 Windows... 2 Microsoft... Internet... Anexo D Proj... 21:41



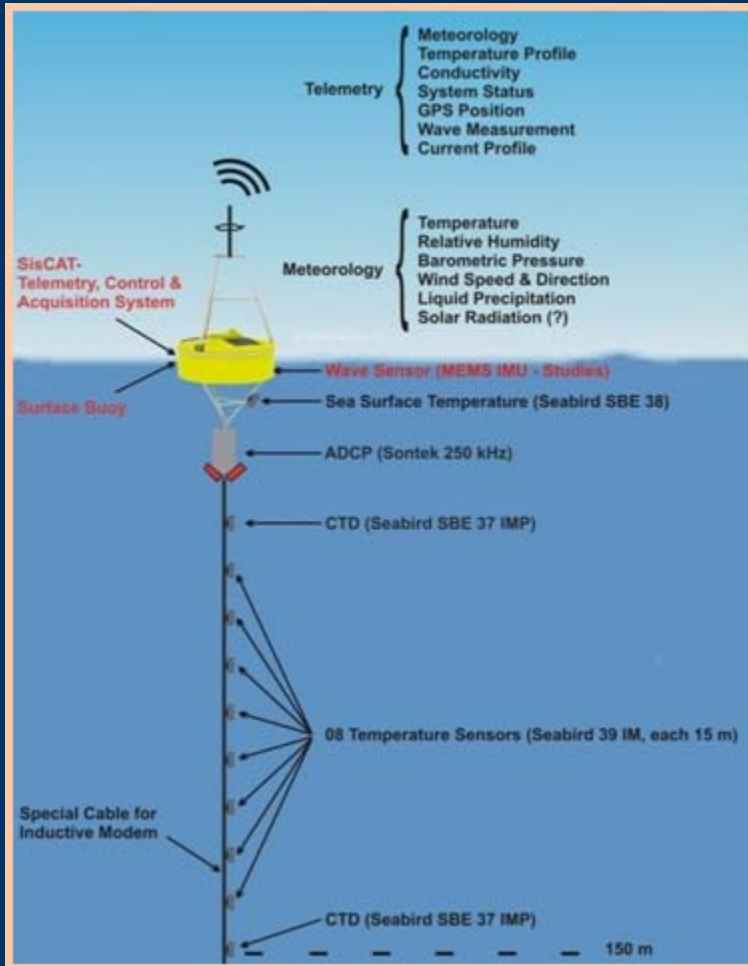
Statistical Modeling - Hindcast



Rio Grande wave data analysed by Ricardo Martins Campos, PhD Student



Brazilian buoys



HOLOS Brasil Serviço Naval Ltda.

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DIRECTORATE OF HYDROGRAPHY AND
NAVIGATION – NAVY HYDROGRAPHIC CENTER**

Sonia Cavalcante
Commander, DSc

Coastal Engineering/Physical Oceanography
Oceanographic Information Division
Coordinate or of Brazilian National Buoy Program

Thank you