

# **BRAZILIAN NATIONAL REPORT**

## **14th. MACHC 2013**



**XIII CONFERENCIA ORDINARIA DE LA COMISIÓN  
HIDROGRÁFICA MESOAMERICANA Y DEL MAR CARIBE MACHC**

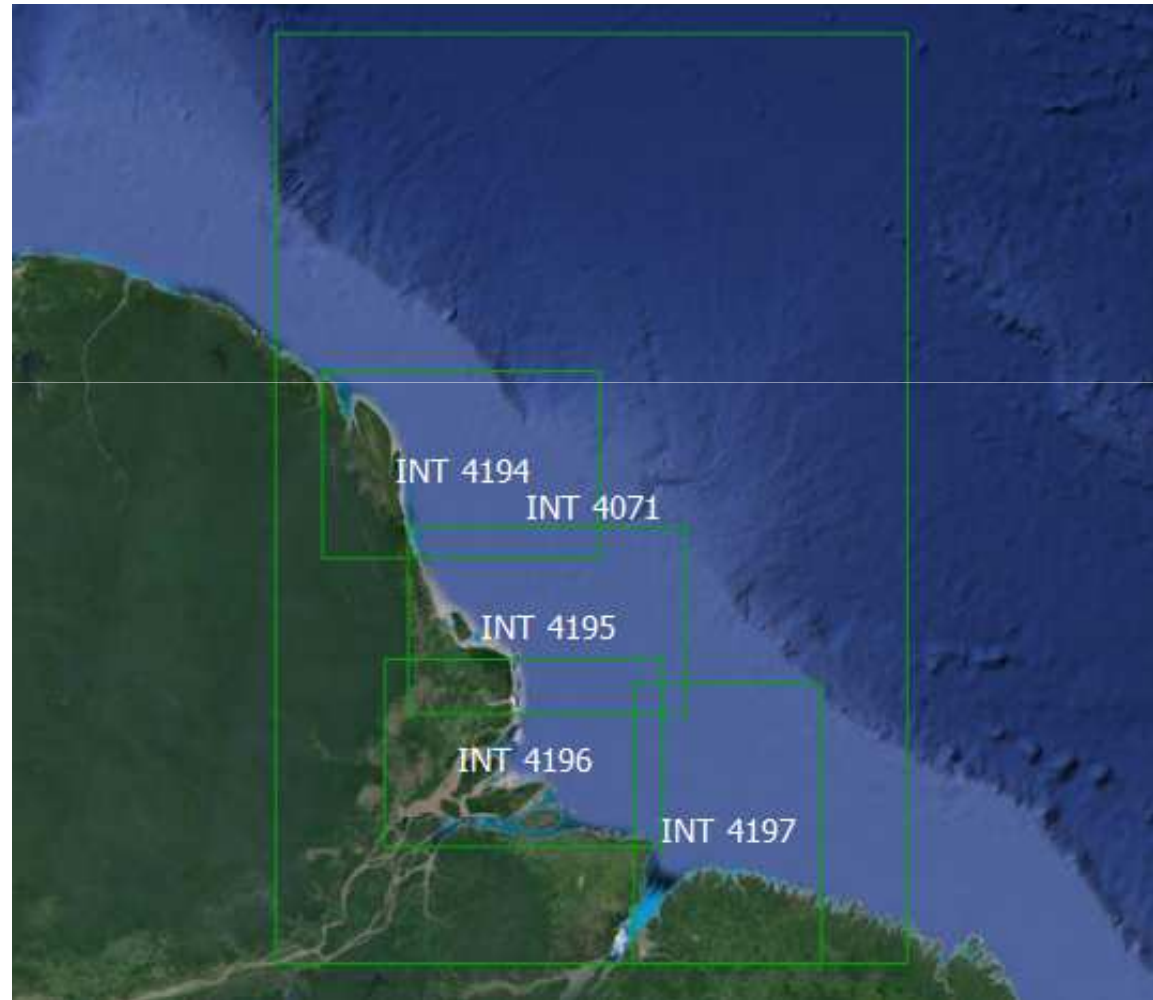
# BRAZILIAN NATIONAL REPORT

- ***Nautical Cartography*** - BR INT nautical charts (MACHC):

INT NUM	TITLE	SCALE 1:	1 <sup>st</sup> Ed.
4071	De Cayenne ao Cabo Gurupi	1 000 000	2010
4194	Do Cabo Orange à Ponta Tucumã	300 000	2010
4195	Da Ponta Tucumã à Ponta Guará	300 000	2011
4196	Do Cabo Norte ao Cabo Maguari	300 000	2013
4197	Do Cabo Maguari à Ponta Boiuçucanga	300 000	2012

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INT chart  
scheme as by  
NOV2013:



# BRAZILIAN NATIONAL REPORT

- ***Nautical Cartography*** - BR ENC UB2 and UB3 (MACHC)\*:

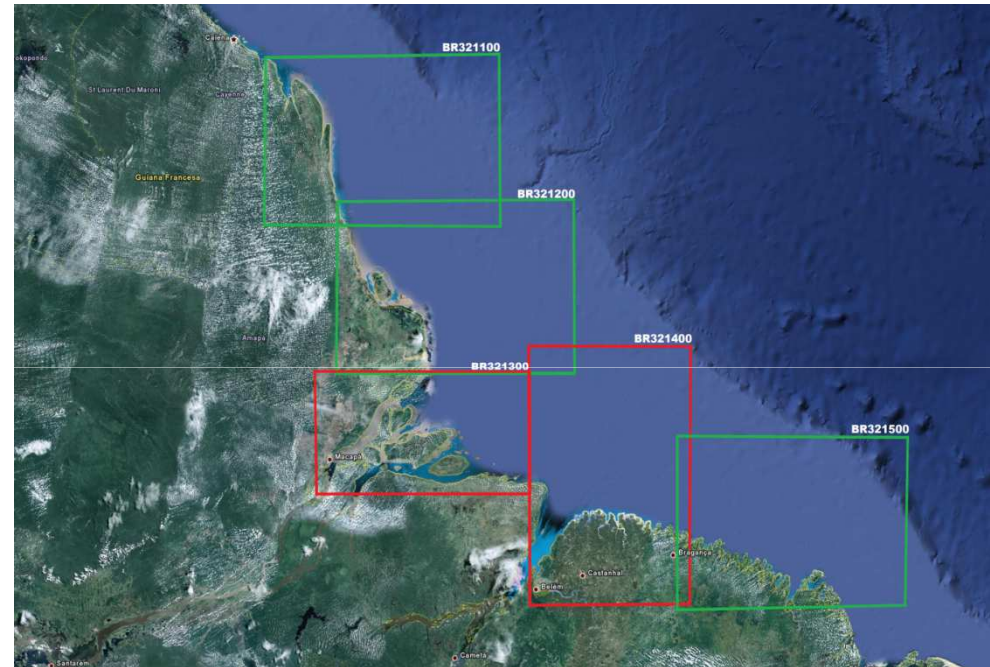
CELL NUM	TITLE	SCALE 1:	1 <sup>st</sup> Ed.	To be edited
BR221010	De Cayenne ao Cabo Gurupi	700 000	2011	
BR221020	De Salinópolis à Fortaleza	700 000	2010	
BR321100	Do Cabo Orange à Ponta Tucumã	180 000	2010	
BR321200	Da Ponta Tucumã à Ponta Guará	180 000	2011	
BR321300	Do Cabo Norte ao Cabo Maguari	180 000		2014
BR321400	Do Cabo Maguari à Ponta Boiuçucanga	180 000		2014
BR321500	Da Ponta Boiuçucanga à Ponta do Zumbi	180 000	2012	

\* - All distributed by IC-ENC and PRIMAR.

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ENC UB2 chart  
scheme



ENC UB3 chart  
scheme

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- ***Nautical Cartography*** - BR ENC UB4 and UB5 (MACHC):

CELL NUM	TITLE	CEL NUM	TITLE
BR4 00011	Arquipélago de São Pedro e São Paulo	BR4 41021	De Ilha do Sarapoí a Almeirim
BR4 00201	Barra Norte do Rio Amazonas	BR4 41022	De Almeirim a Prainha
BR4 00202	Da Ilha Bailique a Ponta do Capinal	BR4 41031	Da ilha do Mouraba a Costa do Ituquí
BR4 00203	Da Ponta do Capinal às Ilhas Pedreira	BR4 41032	Da Costa do Ituquí a Ilha do Meio
BR4 00204	Das Ilhas Pedreira à Ilha de Santana	BR4 41041	Da Ilha do Meio à Ilha de Santa Rita
BR4 00242	Da Ilha dos Porcos à Ilha de Santana	BR4 41042	Da Ilha de Santa Rita a Parintins
BR4 00243	Da Ilha Ituquara à Ilha dos Porcos	BR4 41051	De Parintins a Costa do Giba
BR4 00244	De Gurupá à Ilha Ituquara	BR4 41052	Da Costa do Giba a Itacoatiara
BR4 00302	De Salinópolis ao Canal do Espadarte (NE)	BR4 41061	De Itacoatiara à Ilha da Grande Eva
BR4 00303	Do Baixo do Espadarte à Boca do Vigia	BR4 41062	Da Ilha da Grande Eva a Manaus
BR4 00304	De Mosqueiro a Abaetuba	BR5 00206	Porto de Santana
BR4 00305	Da Ilha do Capim à Ilha da Conceição	BR5 00320	Porto de Belém
BR4 00306	Da Ilha da Conceição aos Estreitos	BR5 00321	Porto de Vila do Conde
BR4 00315	Da Boca do Vigia a Mosqueiro	<b>BR5 04110</b>	<b>Porto de Manaus</b>
BR4 41011	Da Ilha Mangabal à Ilha do Comandaí	BR5 41031	Santarém
BR4 41012	Da Ilha dos Porcos à Ilha Gde de Taiacuí		

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ENC UB4/5 chart scheme (MACHC atualizar)

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- ***Nautical Cartography***

- The Nautical Cartographic Plan of Amazon Basin is being conducted by the Brazilian Navy Hydrographic Ships, so as to update the nautical cartography of the region in a systematic way. It comprises 175 nautical charts and 19 Atlas of croquis of “less navigated” rivers.
- The Brazilian ENC Plan is being readequated. New ENC planned inside Amazon Basin (for example, 3 new ENC in Trombetas River). MACHC region will stay the same.
- Update to C-55 submitted in MAY2013.



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- ***Nautical Cartography***

- HPD production: on 2013 DHN-BR produced the first nautical chart using CARIS HPD technology (National Chart 4361 – Rio Tocantins).
- INLAND ENC development and implementation being discussed and prepared.
- DHN-BR has a portfolio of 728 paper nautical charts (59% riverine), 130 ENC and 365 raster nautical charts.

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- *Hydrographic Surveys*

- New riverine hydrographic capacities: 5 new ships commissioned until beginning 2015 (total of 7) + new equipments acquired (singlebeams and multibeams) so as to meet OHI requirements on hydrographic surveys.

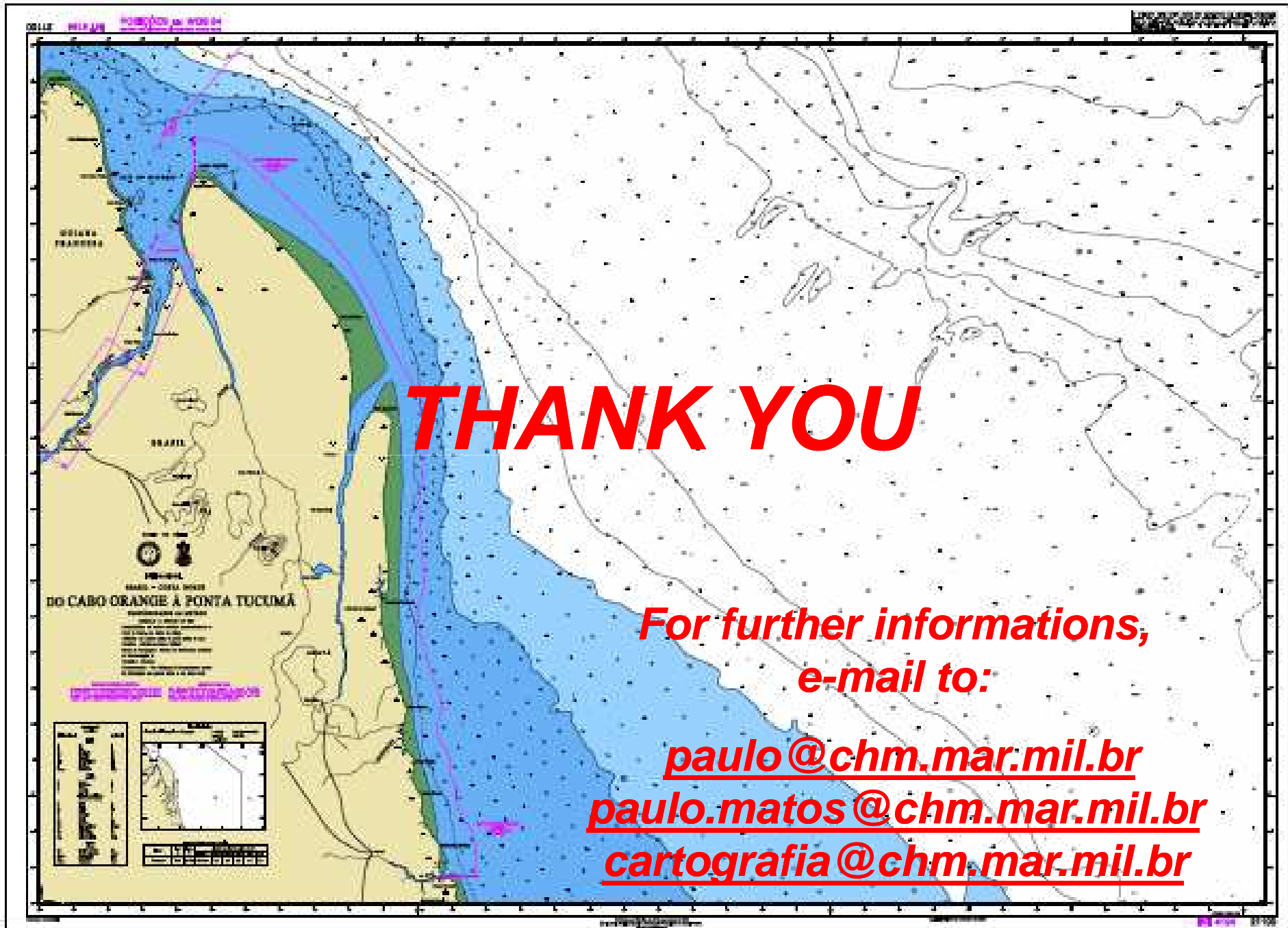


# BRAZILIAN NATIONAL REPORT

- ***Capacity Building***
  - Official contacts done by Suriname and Guyana for Hydrography (multibeam use) and Nautical Cartography (ENC production) tasks.
  - Official contact done by Haiti for capacity building (creation of the SHOH).
  - On NOV 2013, DHN-BR hosted the Multibeam Sonar Training Course, promoted by the University of New Brunswick, as a part of the Ocean Mapping Group effort to promote the multibeam technology capability.
  - Intensive Course on Hydrography for Civilian Entities (JAN2013).

# BRAZILIAN NATIONAL REPORT

- ***Capacity Building***
  - On SEPT2013, DHN-BR contributed with the training of personal and production of nautical paper charts of INAHIMA (Mozambique Hydrographic Service) by sending qualified technical personnel to share knowledge and assist INAHIMA Cartographic Department (at no cost).
  - This program was sponsored by CB Fund (travel costs involved).



**THANK YOU**

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