



MACHC Electronic Chart Committee Report

MACHC XII Basseterre, St. Kitts
December 2011

MACHC-Electronic Chart Committee

Goal: Demonstrate and facilitate the use of official electronic chart data for safe, efficient, and environmentally-sensitive maritime navigation.

Objectives:

- Facilitate the production and availability of ENCs
- Speed up ENC production for key ports & major shipping routes
- Facilitate the resolution of any gaps/overlaps among MACHC MS
- Increase awareness of benefits of using EC data

MACHC-Electronic Chart Committee

Two Working Groups:

MesoAmerican Capacity Building Pilot Project (WG1)

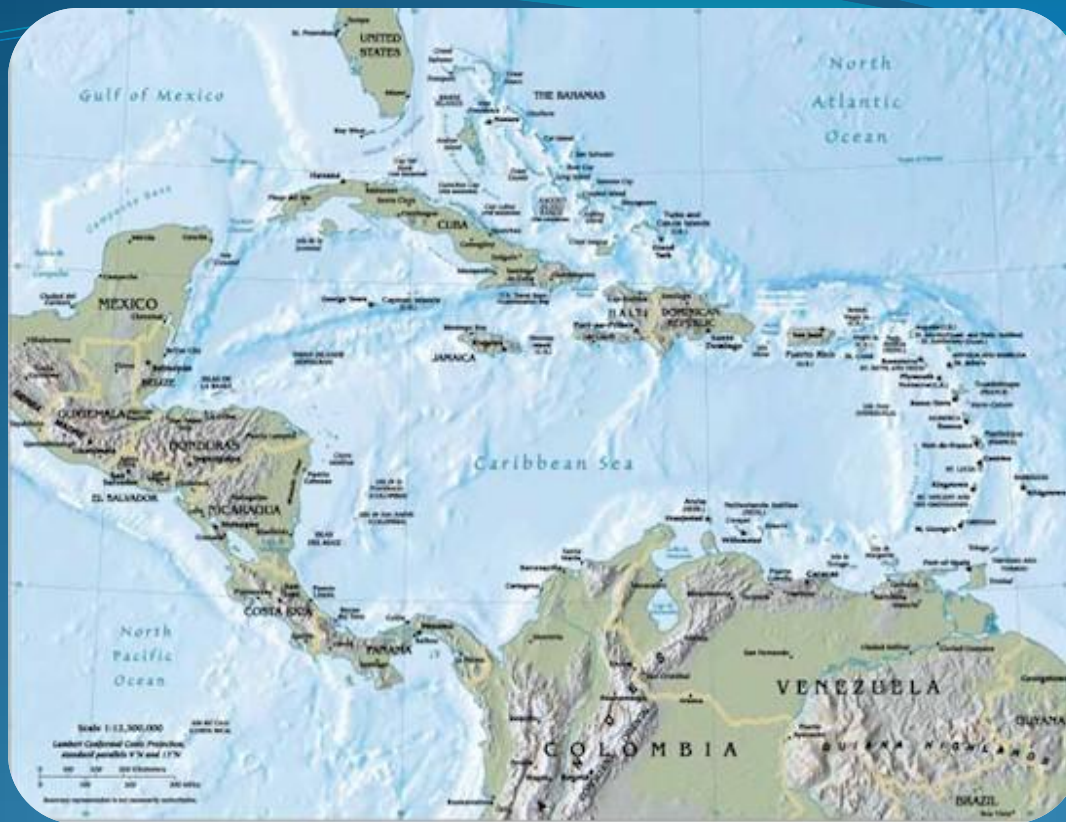
Improve capacity building of coastal state hydrographic offices in a defined area with an initial focus on a Partnership with GEF-funded Gulf of Honduras Project

The final report of this effort was submitted to MACHC Capacity Building Committee.

This concludes this effort and it is recommended that WG1 be disbanded as any future activities should be pursued by the CBC.

ENC Production and Distribution (WG2)

Improve ENC coverage of the entire region in the short to medium term, through the production of ENC data by national hydrographic offices

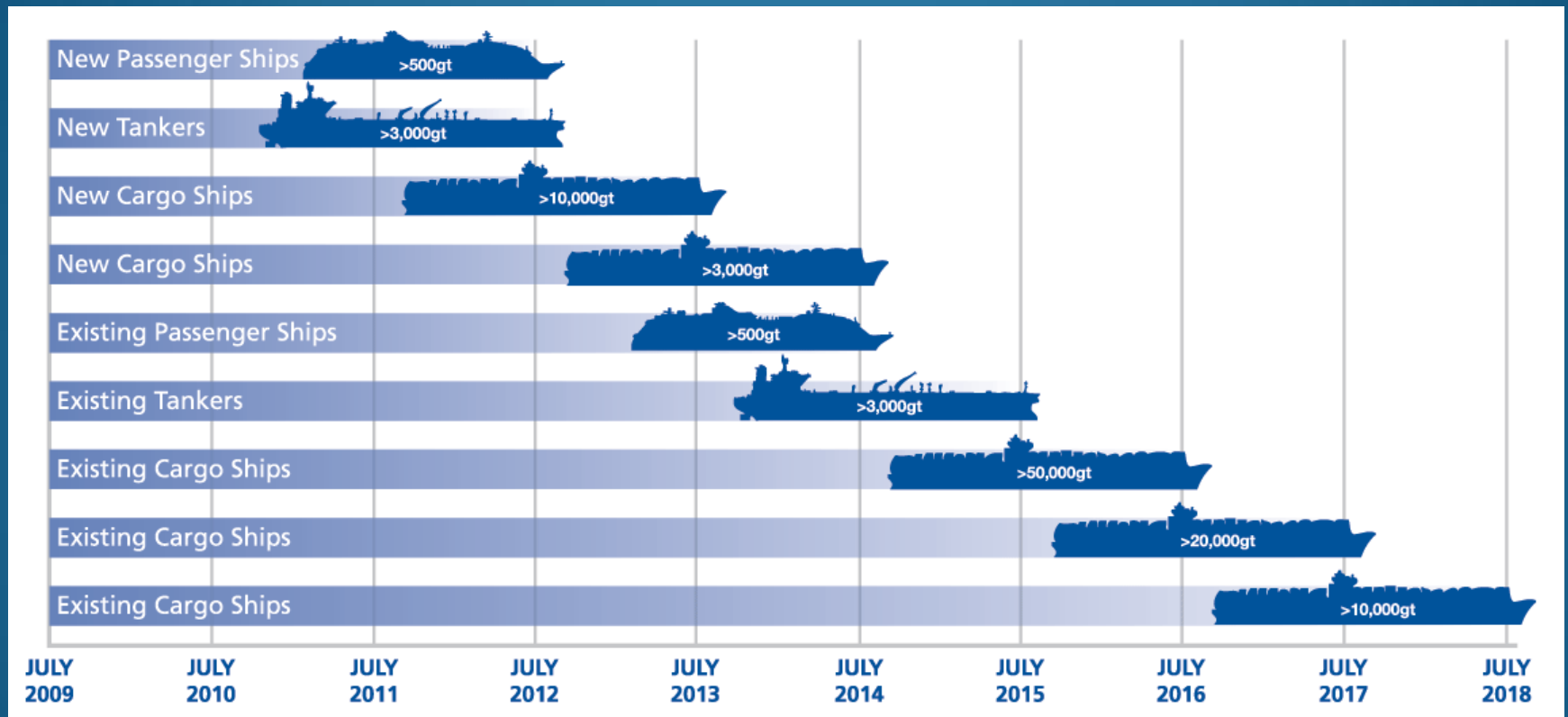


Working Group 2 ENC Coverage Report

Working Group Members

- Brazil
- Colombia
- Cuba
- France
- Netherlands
- Mexico
- United Kingdom
- United States
- Venezuela
- MACHC INT Chart Coordinator

Background: International Maritime Organization (IMO) carriage requirements



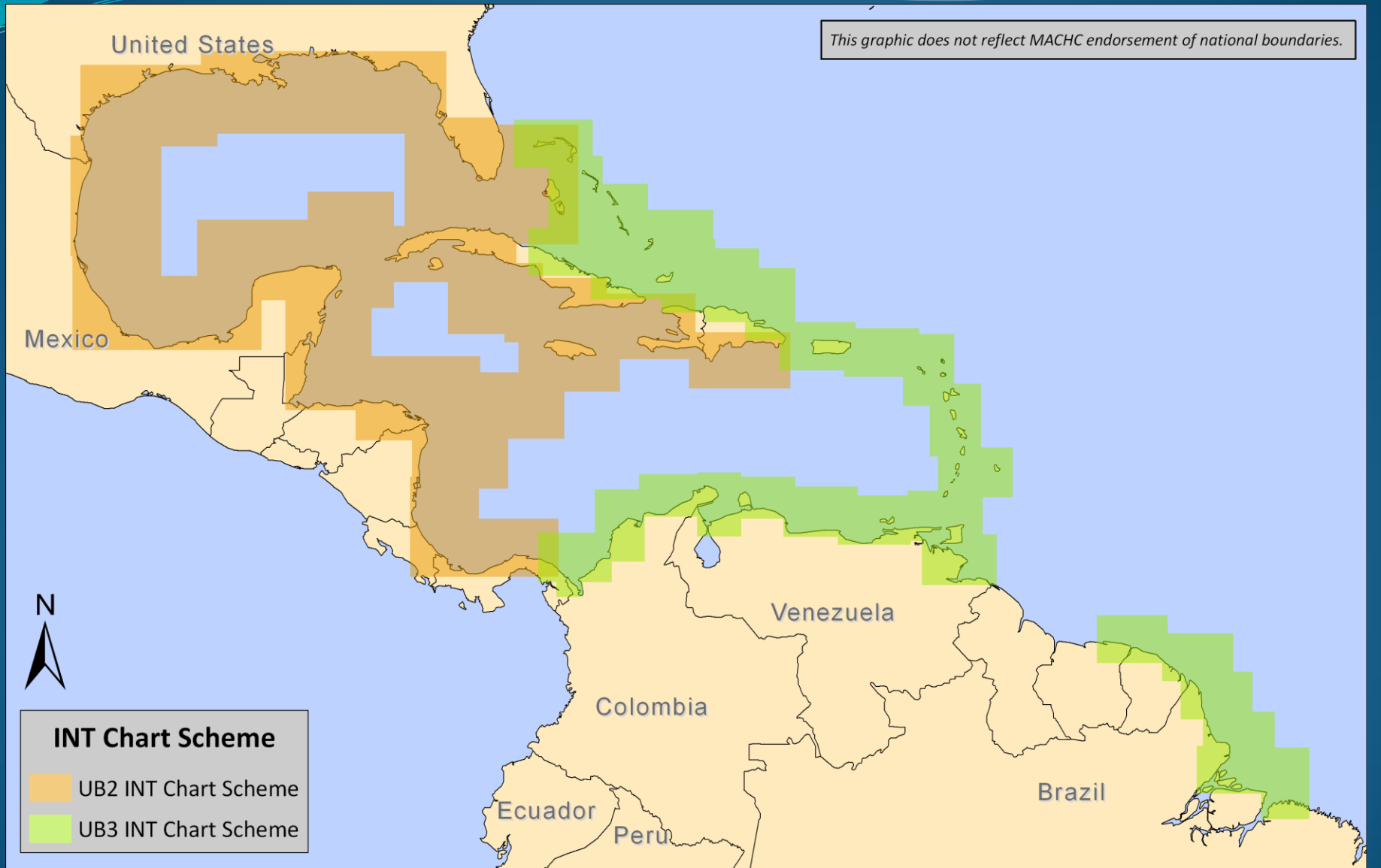
IMO NAV 53

- In October 2007 the IHO convened an extraordinary meeting of its WEND Committee to consider matters arising from NAV53.....which adopted the following definition for adequate coverage:

“Adequate ENC Coverage is attained with those ENCs required to enable safe port to port navigation for international shipping that correspond to the paper chart coverage for these ports and the routes between.”

At its November 2009 meeting in Barbados, the MACHC endorsed the goal of the ECC/WG2 to:

“Achieve adequate regional ENC coverage by December 31, 2010 (using the medium scale INT chart scheme as the baseline for adequate medium scale ENC coverage--usage bands 2/3).”



At its November 2010 meeting in Suriname, the goal of the ECC/WG2 was expanded to:

“to include usage bands 4-6 on the Atlantic side of MACHC and initiate the evaluation of ENC coverage for usage bands 1-6 on the Pacific side of MACHC”*

** Due to fewer MS States on the Pacific side and a correspondingly fewer ENC cells, the above goal was expanded to include all usage bands on the Pacific side.*

2011 Workplan

In 2010, the Workplan assessed the adequacy of MACHC ENC Coverage (UB 1-3), based on the INT Chart “footprint”

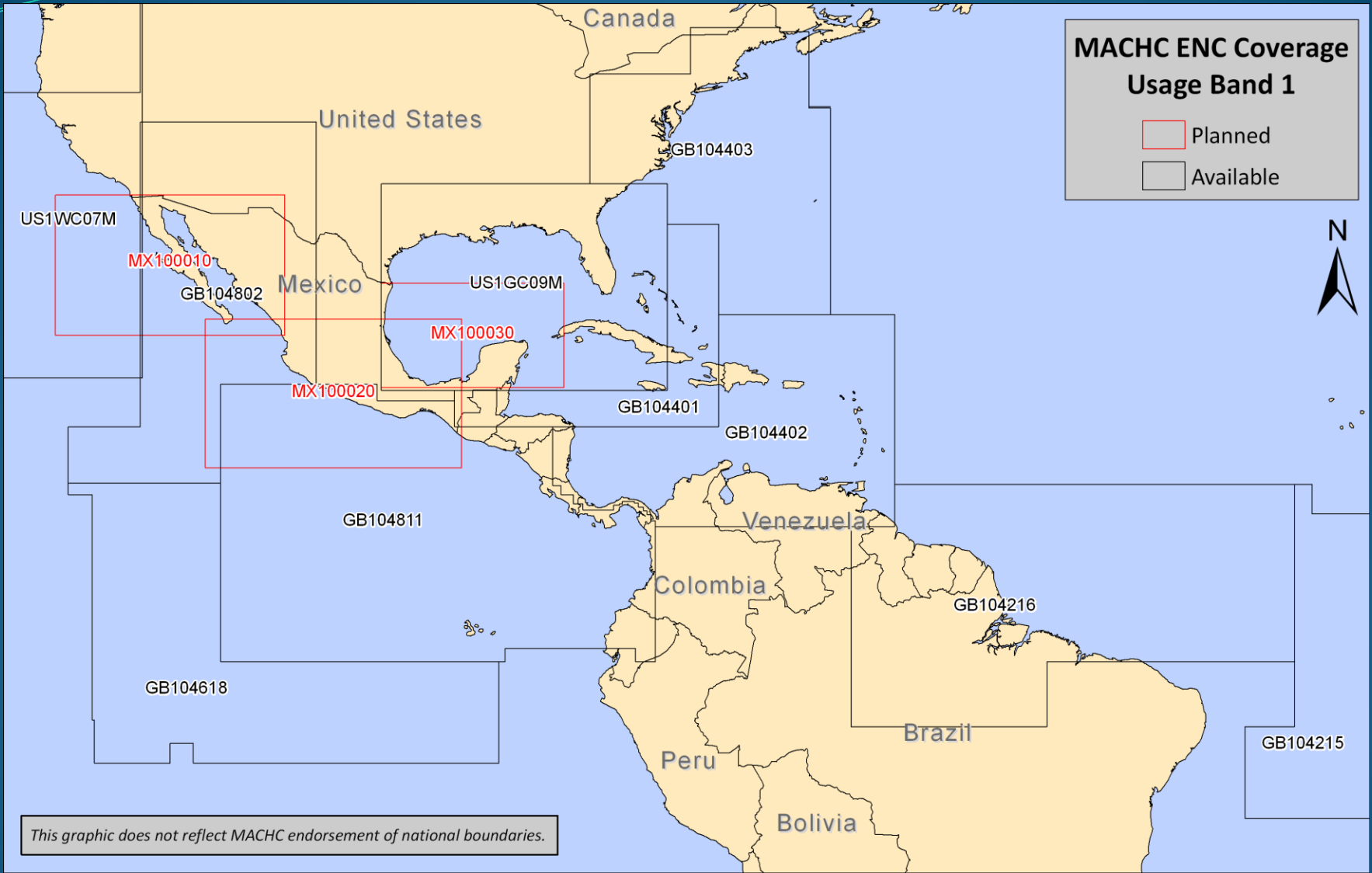
For 2011, since an INT Chart Scheme for larger scale charts does not yet exist, the Working Group expanded on the previous plan to:

- utilize the concept of “priority ports” to guide assessment of UB 4-6 ENC coverage on the MACHC –Atlantic side
- asses coverage of “priority ports” to guide UB 1-6 coverage on the MACHC Pacific side
- coordinate action plans for addressing gaps and overlaps in ENC coverage between countries; and
- continue the communication strategy used in 2010 to track progress and resolve issues

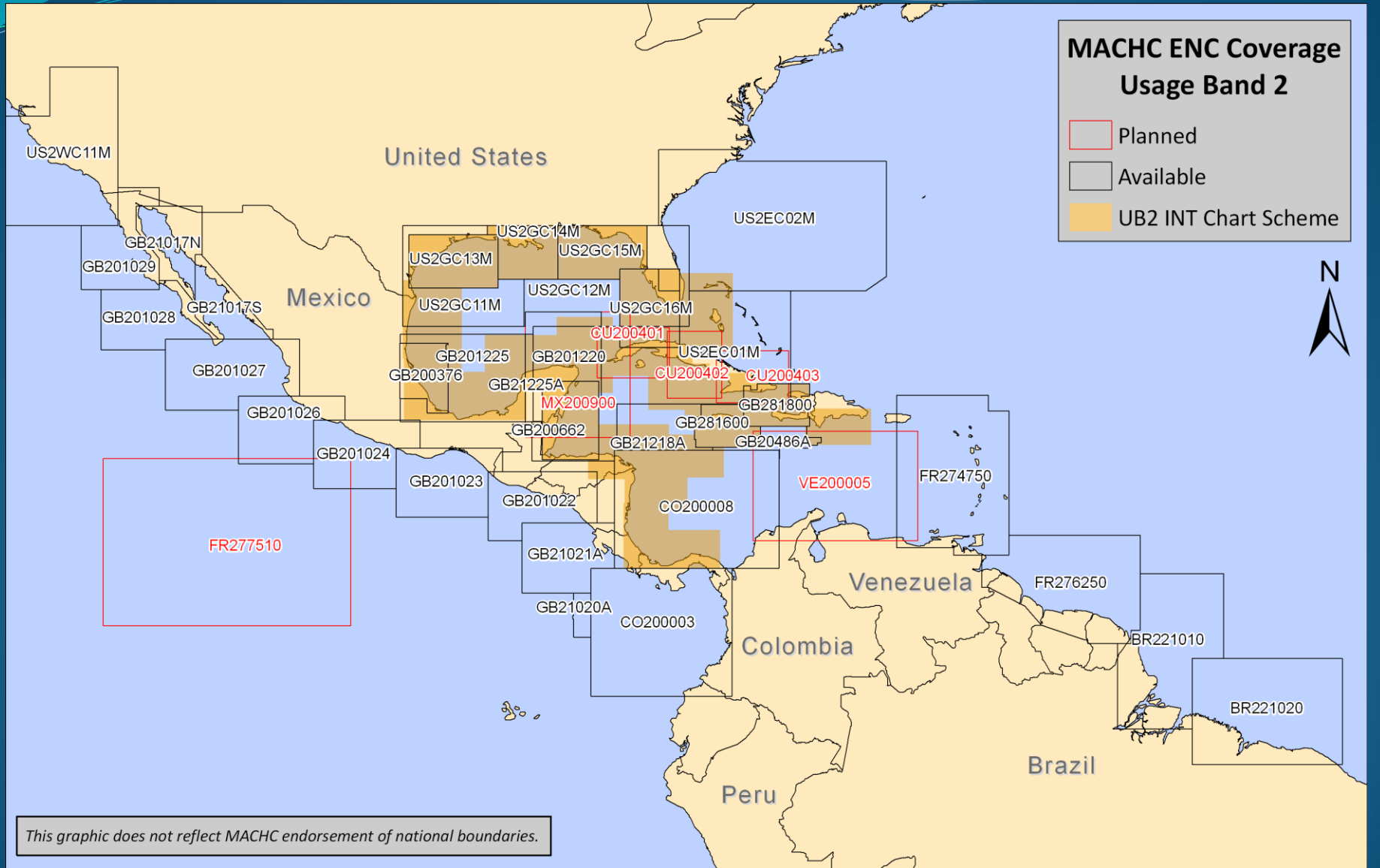


MACHC ENC Coverage Usage Band 1

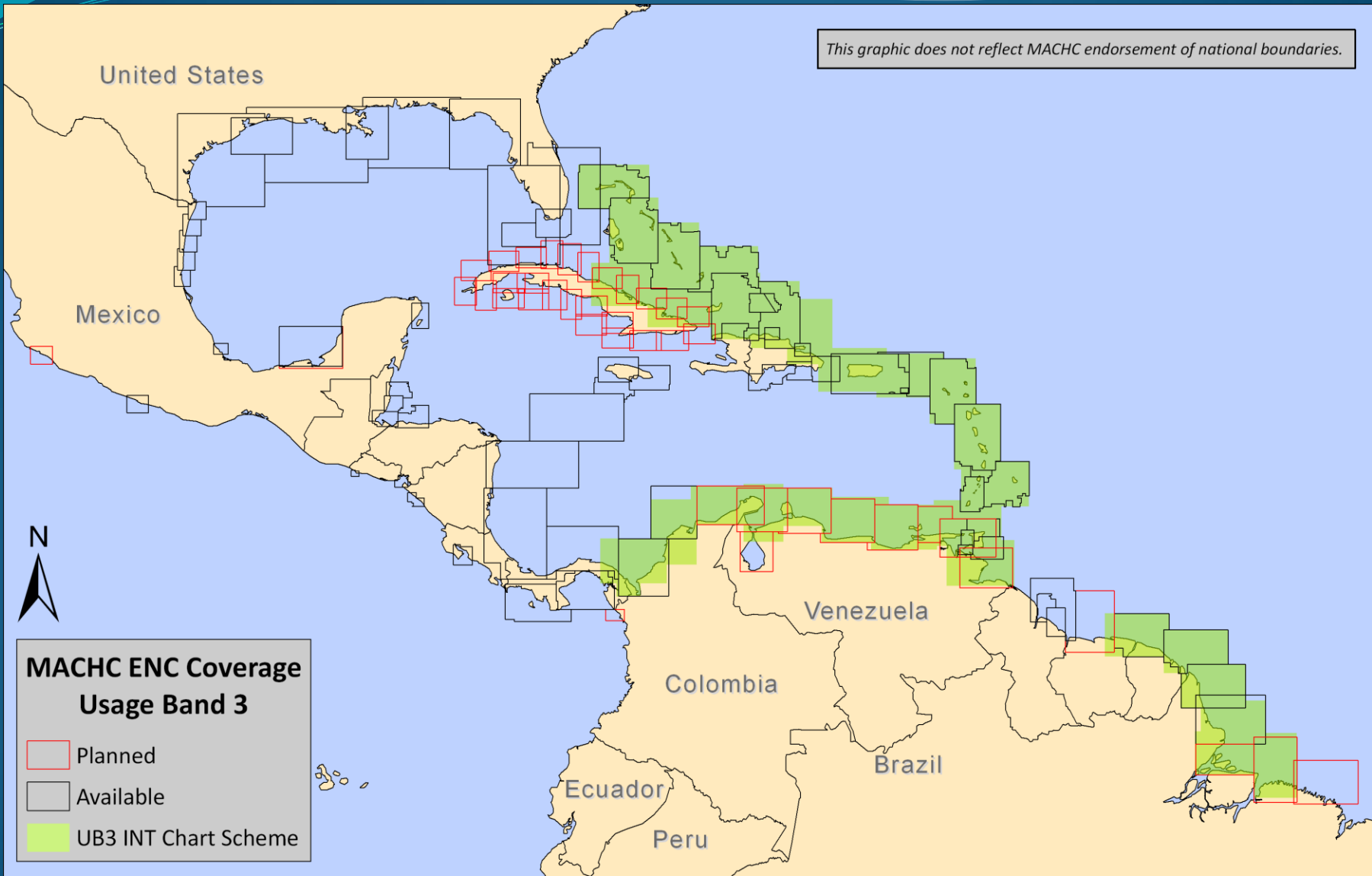
- Planned
- Available



This graphic does not reflect MACHC endorsement of national boundaries.



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MACHC ENC Coverage Usage Bands 4-6

- Planned
- Available
- Not Covered
- Covered

This graphic does not reflect MACHC endorsement of national boundaries.





Puerto Barrios
 Santo Tomas de Casti
 Puerto Cortes
 Guatemala
 Puerto Chiapas
 Honduras
 Puerto Quetzal
 Acajutla
 El Salvador
 Corinto
 Puerto Sandino
 Nicaragua
 Caldera (CR)
 Puntarenas
 Puerto Limon
 Costa Rica
 Charco Azul
 Panama
 Chiriqui Grande
 Colon
 Cristobal
 Manzanillo
 Coco Solo
 Las Minas Bay
 Panama Canal
 Balboa
 Isla de Providencia
 San Andres

MACHC ENC Coverage Status

ADEQUATE ENC COVERAGE OF THE ATLANTIC SIDE OF THE REGION BY USAGE BANDS

<i>Usage Band</i>	<i>TOTAL CELLS</i>	<i>Cells currently available</i>	<i>Cells available by December 2011</i>	<i>Cells available by July 2012</i>	<i>Cells available by Dec 2012</i>
Usage Band 1	7	6	6	6	7
		86%	86%	86%	100%
Usage Band 2	27	22	25	27	27
		81%	93%	100%	100%
Usage Band 3	102	62	97	102	102
		61%	95%	100%	100%
Usage Band 4	174	137	153	158	162
		79%	88%	91%	93%
Usage Band 5	238	184	218	219	227
		77%	92%	92%	95%
Usage Band 6	13	11	11	11	12
		85%	85%	85%	92%
All Usage Bands	561	422	510	523	537
		75%	91%	93%	96%

MACHC ENC Coverage Status

ADEQUATE ENC COVERAGE OF THE PACIFIC SIDE OF THE REGION BY USAGE BANDS

<i>Usage Band</i>	<i>TOTAL CELLS</i>	<i>Cells currently available</i>	<i>Cells available by December 2011</i>	<i>Cells available by July 2012</i>	<i>Cells available by Dec 2012</i>
Usage Band 1	6	4	4	6	6
		67%	67%	100%	100%
Usage Band 2	14	13	13	13	13
		93%	93%	93%	93%
Usage Band 3	9	7	7	9	9
		78%	78%	100%	100%
Usage Band 4	22	20	20	22	22
		91%	91%	100%	100%
Usage Band 5	26	20	20	24	26
		77%	77%	92%	100%
Usage Band 6	4	3	3	3	4
		75%	75%	75%	100%
All Usage Bands	81	67	67	77	80
		83%	83%	95%	99%

Status of Overlap Resolution

- US/UK/Mexico/Cuba: Coverage being reassessed in light of new data received from Cuba.
- Mexico/Cuba: Decision reached on location cuts at 85 degrees west long.
- UK/US: Will be addressed/resolved next week at a meeting in the US.
- Colombia/Venezuela: A MoU to address overlap between CO300026/VE300100 has been accepted and will be submitted for approval by respective authorities. Meeting scheduled for March in Colombia for signing. This will apply to the ENC, INT and IBCCA charts.
- Venezuela/UK/Netherlands: Resolution on approach for resolving progress on VE200005, VE300100, VE300600 and VE300700 will be addressed at a meeting between Venezuela and UK early in 2012 and a meeting with the Netherlands in March or May 2012.

In summary, of the 18 overlaps, 10 have been resolved. With the finalization of the above resolutions, the remaining overlaps will have been resolved.

Outstanding Gaps December 2011

- Cuba: Planned coverage being reassessed, based on recent information from Cuba.
- Bahamas: (4 locations) Being addressed by UK pending assessment of available data.
- Roatan, Honduras: Being addressed by UK pending assessment of available data.
- Charco Azul, Panama: Being addressed by UK pending assessment of available data.
- Venezuela: (6 locations) Coverage planned for July 2012.

Options for resolving Gaps

- *Priority Ports Analysis: Type of vessels calling on a specific Port may have a later ECDIS requirement deadline than July 1, 2012*
- *Focused MACHC CBC assistance*
- *WEND Principles - Partnering with another HO to provide coverage on a temporary basis*
- *Raster Coverage as an interim measure (which can be read/displayed in ECDIS)*

Report Recommendations

- 1. MACHC ECC continue to monitor and update Region B, Atlantic side, ENC scheme for all Usage Bands, per the timetables indicated in Annex A.
- 2. MACHC ECC monitors and updates Region B, Pacific Ocean side, ENC scheme for all Usage Bands, per the timetables indicated in Annex A.
- 3. MACHC ECC to explore options to provide a means to depict ENC schemes on a webpage, as a pilot project.

The display should be interoperable and appropriate for GIS applications. Additionally, MACHC Member States should find it easy to update their ENC coverage.

Report Recommendations

4. As a permanent task, MACHC Member States are invited to provide the ECC with their ENC production plans taking into account:
 - IMO requirements for mandatory carriage and priority regional ports;
 - the availability of adequate survey data for ENC production (keeping in mind that, in some areas, hydrographic offices may not produce ENCs if data are out-of-date or not compliant with S-44 standards); and
 - the need to address national overlaps and consistency for all Usage Bands.
5. MACHC Chair is invited to provide this report and the IHB as the region's contribution to global ENC coverage so that it may be conveyed accordingly to the IMO.

Report Recommendations

6. In order to create the IHO worldwide ENC database, all ENC producers are encouraged to make their ENCs available to the RENCs, even if they are also distributed by different channels.
7. If Member Countries are unable to complete their ENC coverage, the MACHC, in partnership with appropriate authorities, should consider options to address this situation, in accordance with the IMO ECDIS Requirements and WEND principles.
8. If MACHC Member States are unwilling either to distribute ENCs or to have another country produce for them, the MACHC Chair will inform the Inter-Regional Coordinating Committee (IRCC). The IRCC will take appropriate action with the WEND Working Group, the IHB, and IMO.

Actions Required of the MACHC

- MACHC Member States are invited to note and endorse this report and its recommendations.
- The MACHC Chair then transmit the finalized report to the IRCC Chair and IHB no later than January 31, 2012 for ultimate communication of the results to the IMO.

WG2 Actions—MACHC XII

Finalize Report: “ENC Coverage for the MACHC Region”

- Update Report Annex A: Include recent additional input;
- Update Report Annex B: Resolve outstanding overlaps/gaps, reflecting decisions arrived at this meeting.
- Update summary statistics (%) of existing vs. planned ENCs for easier reporting by IHB.
- MS updates due to the Chair by December 31, 2011.
- Elaborate the adopted 2012 Workplan

2012 Workplan

DELIVERY DATE (2012)	ACTIONS
	For all UB 1-6 Band Cells for both Atlantic and Pacific side of MACHC
January 31	Member States with gaps in coverage to analyze their ENC coverage of Priority Ports based on the IMO Carriage Requirements and associated deadlines for vessel size and traffic.
February 6	Update MCOVR and dates of availability for MACHC Member States (MS) from the RENC/MS for both Atlantic and Pacific side ENC Coverage.
February 13	MS Points of Contact (POC) provide MCOVR data when not available from the RENC
February 17	Distribute updated results (for discussion during Conference Call)
February 29	Explore options for providing a mechanism to depict ENC schemes on a webpage in an interoperable manner
March 14	Hold quarterly conference call, 10:00 EST (US) to assess status and next steps
April 8	Complete the follow-up actions from Conference Call
May 15	Produce updated Annex to ECC WG2 ENC Coverage Report for ALL ENCs prior to July 2012 IMO deadline
May 22	Expanded draft Annexes of Report forwarded to WG members for comment
June 6	Hold quarterly conference call, tentative time 10:00 EDT (US) to assess status and remaining steps
June 25	Submit updated statistics to MACHC Chair (prior to July 2012 deadline) for subsequent communication to IRCC and IHB
July 1-September 1	Continue communications with WG participants for updates on ENC cells and availability
September 12	Hold quarterly follow-up conference call to review and discuss MS responses to draft of updated Report
October 14	Distribute WG2 Report to MACHC Chair; copy to MACHC National Hydrographers for review and endorsement.
November 2	Comments back to ECC Chair; copy MACHC Chair
November 12	Submit Final Report to MACHC
December 3-7	Seek approval of Final Report at 13th MACHC Meeting
December 31	MACHC Chair to distribute Final Report of the Status of ENC Coverage for the MACHC Region to the IRCC and IHB



Thank you

http://www.iho-machc.org/documents/machc_doc.html#dec2011

MACHC 12-06 - ECC Draft Report