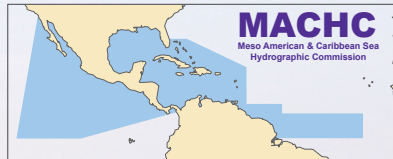


Report of the Meso American and Caribbean Sea Hydrographic Commission (MACHC) Integrated Chart Committee

INT Chart and ENC Coverage for the MACHC Region



December 2014

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Report of the MACHC INTEGRATED CHART COMMITTEE

INT CHART AND ENC COVERAGE FOR THE MACHC REGION

DECEMBER 2014

INTRODUCTION

The purpose of the Meso American and Caribbean Sea Hydrographic Commission's (MACHC) Integrated Chart Committee (MICC¹) is to provide consistency in the development and maintenance of regional charting schemes, including the monitoring of INT Charts and ENC production, and to promote standardization in International Hydrographic Organization (IHO) charting activities. This is an on-going activity and this report provides the status of these activities

This Report addresses both INT Chart and ENC activities in one comprehensive report. The Report consists of the introduction plus 3 parts as follows:

1. Section 1-What's New
2. Section 2-INT Charts
3. Section 3-ENCs
4. Section 4- Recommendations

BACKGROUND

Since the 13th MACHC, the former INT Chart Committee and the Electronic Chart Committee were joined into one more encompassing committee. Prior to that time the two committees often met together to coordinate activities. It was considered beneficial to produce both the INT chart and the corresponding ENC either concurrently or at least within as close a time frame as possible. As a number of Member States use automated methods to produce the paper INT chart, producing the companion ENC is a relatively simple task in these instances, especially when compiling small-scale charts.

For a more detailed background, please refer to the December 2013 "Report of the Meso American and Caribbean Sea Hydrographic Commission Integrated Charting Committee" which can be found at:

http://www.iho-machc.org/documents/micc/MICC_Report_to_Plenary.pdf.

¹ The MICC was formally established in December 2012 at the 13th MACHC in Guatemala. Prior to this time, all INT Chart activities and all ENC activities were conducted by the INT Chart Committee and the Electronic Chart Committee/Working Group 2 respectively.

Although much work has been completed, the Committee's efforts continue until transition to a full "maintenance" stage is achieved. The work plans for the past years are found in Annex C. This past year, the MICC held two conference calls (March 19 and June 19) and one face-to-face meeting on October 5, in conjunction with the Extraordinary International Hydrographic Conference in Monaco. Additionally, a meeting is planned for December 11, 2014 just prior to the MACHC Conference.

Between calls and meetings, participants communicated primarily via e-mail and the new revised MACHC Committees website at <http://www.iho-machc.org/>, where summary minutes of these calls and meetings can be found.

SECTION 1-What's New

WHAT'S NEW

Risk Assessment:

This year the MICC expanded its scope into the “Risk Assessment” arena. During one of the quarterly MICC Conference calls, the Chair introduced this topic, noting that this had been a subject of discussion at the December 2013 MACHC Conference. The Committee examined both the IALA effort as well as the more sophisticated New Zealand (Vanuatu) model. The IALA effort had provided access to IWRAP (modeling tool useful for maritime risk assessment) information. The findings of both the IALA and the New Zealand projects looked very conspicuous, but require further analysis. It was determined that the IALA Risk Model examined localized, high traffic areas. The MICC plans to look into running such an analysis in some of the MACHC area “choke” points. Although The New Zealand Model is more sophisticated and would conceivably yield improved results, it involves more resources which preclude further exploration at this time. The New Zealand effort was primarily in response to increased Cruise Ship traffic calling on some of the newer island destinations. Figure 1, below shows traffic patterns and the “choke” points within the MACHC.

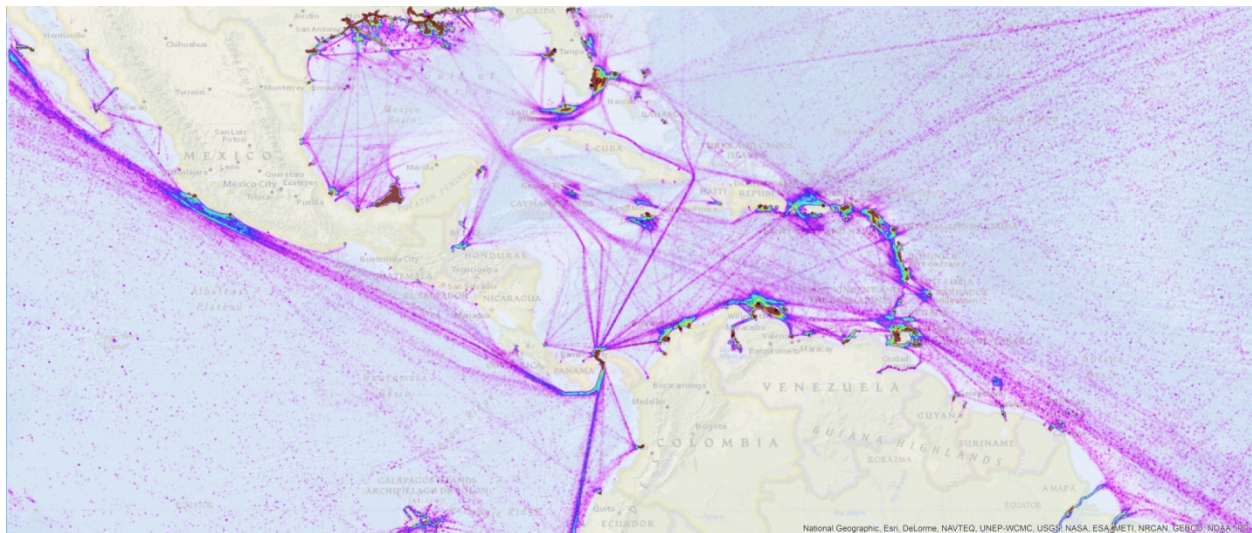


Figure 1

Port Analysis:

In early 2014, the Committee was able to acquire AIS data to help identify ports frequented by a number of cruise vessels. In many of those instances, large scale ENC (Bands 4, 5, and 6) coverage is lacking. Consequently, these ports are now identified as priorities for the production of large-scale Band 4, 5, or 6 ENCs. The graphic shown in Figure 2 below is a sample of an interactive data base which can be queried to provide ship information of the identified ports. A list of Priority Ports is provided as ANNEX D. This will be shared with the Cruise Lines International Association (CLIA) to address these ports.

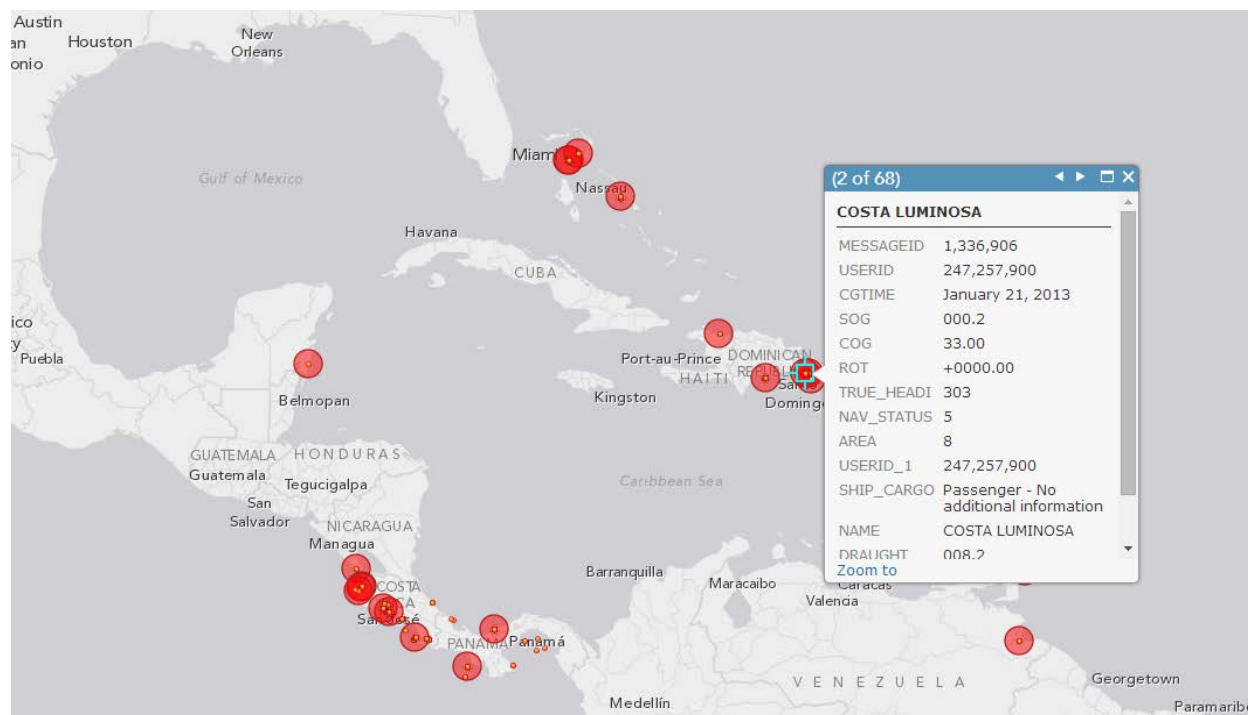


Figure 2

Regional MACHC ENC On-Line:

The MICC is investigating the potential of implementing an ENC On-line for the MACHC Region. Nautical charts are the most accurate and authoritative coastal ocean maps in the world and often provide the only data set available for ocean research or operations of any kind. This data, particularly vector Electronic Navigational Charts, is not easily available for purposes other than navigation. A MACHC ENC On-line service would provide an easily accessible seamless dataset of charting data for the region. Conceptually this would be cloud based mechanism, where each Member State would be in control of its own data. See Figure 3, below. These ENC's cannot be downloaded with this system. Implementation of a MACHC ENC On-line would facilitate the secure management of ENC files by the Member State that owns them. For example, only NOAA would be able to submit or remove NOAA ENC files to its secure spot in the cloud, and each country would maintain complete control over its files and .000 data. The ENC On-line application would reference these files for use in the online application. The public would not be able to download any .000 data at any time.

Potential Uses include:

- Fishery Management
- Emergency Response
- Coastal Planning
- Tourism
- Aquaculture
- Environmental Assessment
- Marine Spatial Planning
- Oil and Gas
- Ports
- Recreational mariner

Hydrographic offices around the world collect the best coastal oceanic data. Users of this data by other disciplines would encourage its use beyond navigation.

MACHC ENC On-Line

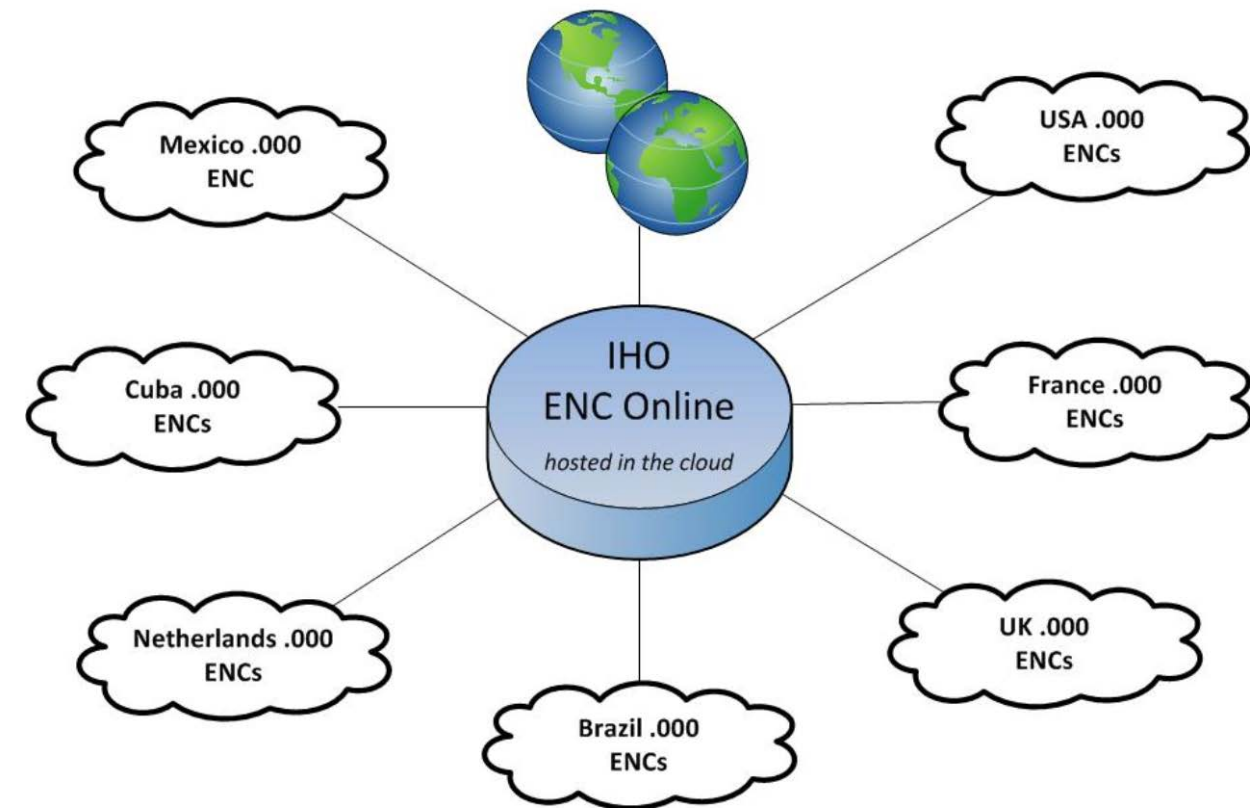


Figure 3

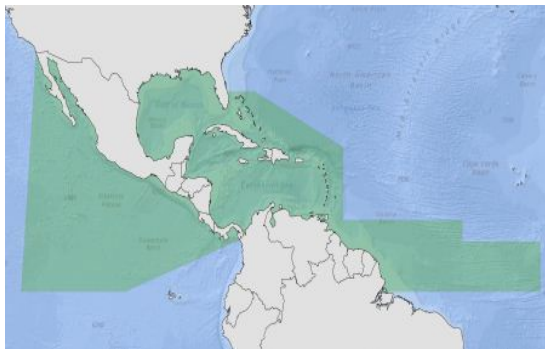
SECTION 2-INT Charts

INTRODUCTION – INT CHARTS

The INT Chart concept is based on potential economies which can be realized if several Hydrographic Offices publishing charts of common regions or ports of interest were to come to an understanding on the reproduction of these charts. The aim is to facilitate the provision of a minimum set of charts suitable for the navigational requirements of international (foreign-going) shipping. Such internationally-conceived charts will also enable those IHO Member States who provide, or wish to provide, charts outside their own national waters, to print by facsimile reproduction selected modern charts under the terms of a bilateral arrangement between the affected Member States.

BACKGROUND

The idea of a common, worldwide chart series (INT Charts) produced to a single set of agreed specifications and standards was adopted by the IHO in 1971. The IHO programme for small scale (1/10 000 000 and 1/3 500 000) INT charts, has been completed and many of the charts at medium and larger scales are in the developmental stages. The Meso American-Caribbean Sea Hydrographic Commission is responsible for the area identified with the green shading on the map at the left. One major task at hand is to complete the identification of those countries who have agreed to produce or distribute charts.



The former INT Chart Committee has always worked very closely with the former Electronic Chart Committee, and now that the two entities have united, the tasks at hand will be handled more efficiently within the MICC.

The MICC considers small and medium-scale INT charts a priority, in parallel with the production of ENCs. Since these tasks are so closely linked, it is imperative that all potential INT Chart “Producer” States be identified in order to develop a coordinated compilation/production schedule.

With the recent development of an INT Chart scheme by Mexico of a significant portion of the Pacific side of the MACHC, identification of “Producer” States, the first goal, is almost complete. The draft of this scheme was already accepted by the 14th MACHC Plenary in 2013 in St Maarten. After a few adjustments, this scheme is now available and has been submitted to the IHO for publication in S-11.

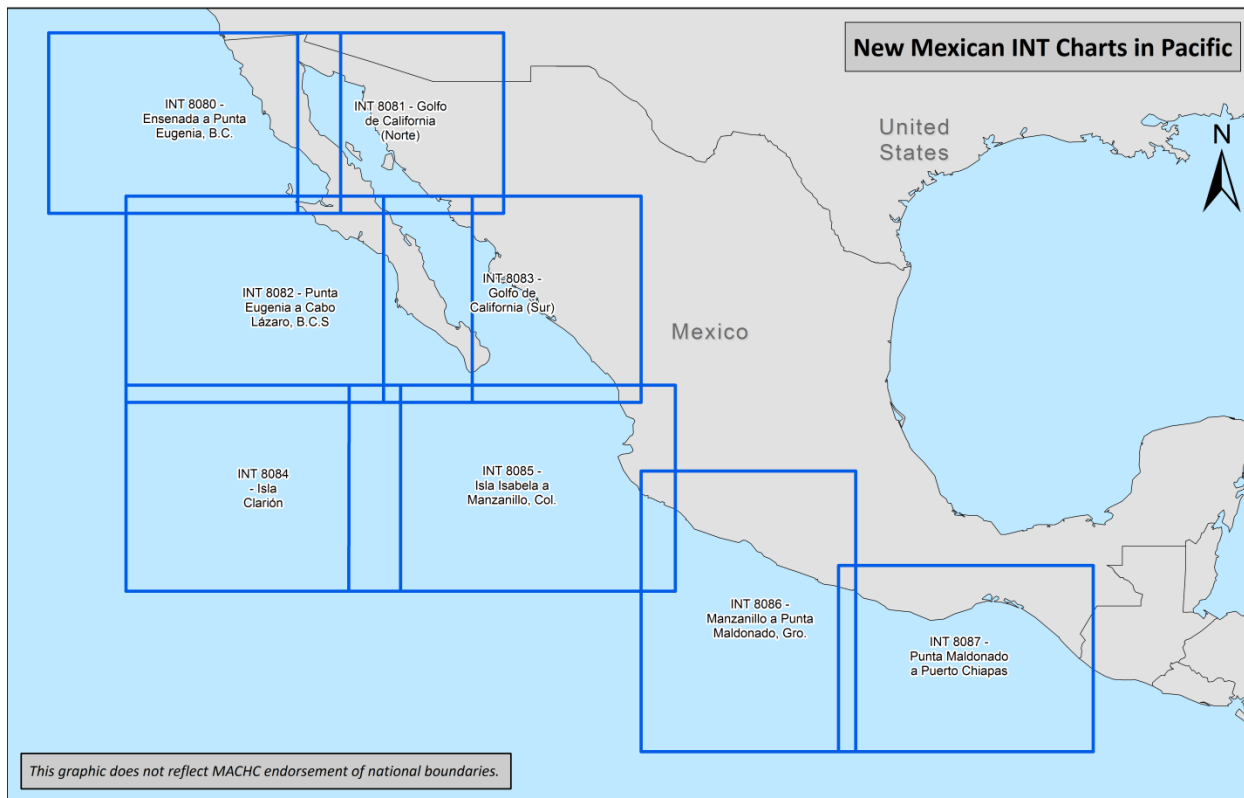


Figure 4

WORK PROCESSES/METHODOLOGIES

The Work Processes and Methodologies are unchanged from previous years and are not repeated here. Please refer to the December 2013 “Report of the Meso American and Caribbean Sea Hydrographic Commission Integrated Charting Committee” for details.

CONCLUSION

The Committee’s goal to identify of “Producer” States continues. Further, the Committee will continue to work to achieve a coordinated schedule for a parallel compilation/production of both INT Charts and ENC. While the ENC production schedule is available in Annex A of this report, much of the INT Chart production is available in Edition 2.0.4 of Region B of S-11, dated November 2013, posted to the IHO website at: http://www.iho.int/iho_pubs/standard/S-11/S-11_PartB_RegionB_e2.0.4.pdf.

SECTION 3-ENCs

INTRODUCTION – ENC

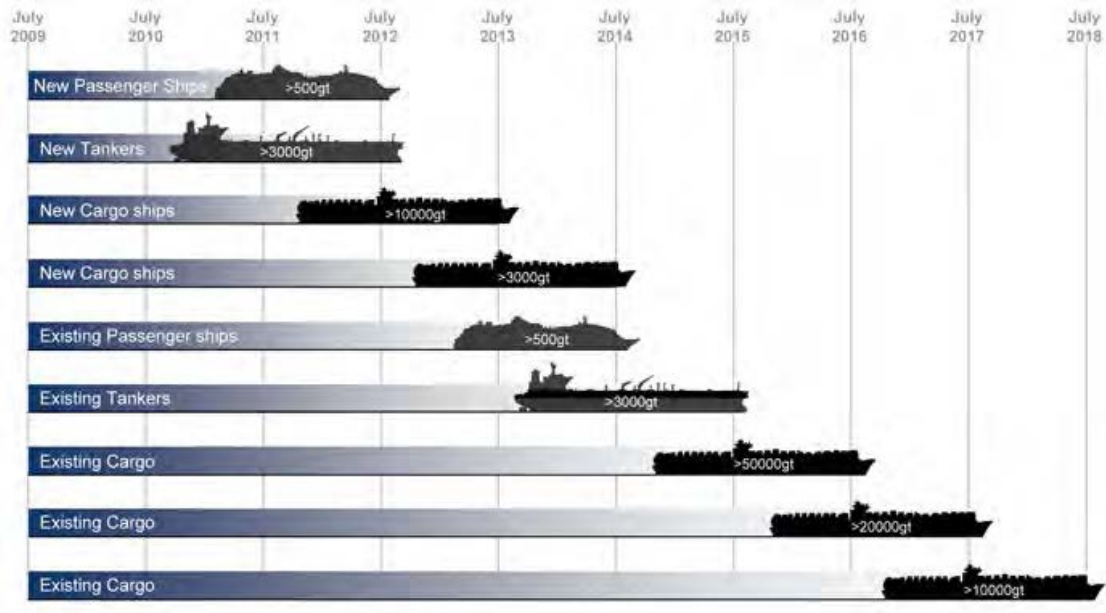
The second and complimentary purpose of the Meso American and Caribbean Sea Hydrographic Commission's (MACHC) Integrated Chart Committee (MICC) is to facilitate the production and promote the availability of official electronic chart data for safe, efficient, and environmentally sensitive maritime navigation within the MACHC Region.

In order to ensure that adequate regional ENC coverage will be available to meet International Maritime Organization (IMO) Electronic Chart Display and Information System (ECDIS) carriage requirements in a timely manner, the MICC was tasked at the 10th MACHC Conference (November 2009, Barbados) to assess ENC coverage and to develop an ENC scheme to ensure adequate ENC coverage by the deadlines set by the International Maritime Organization (IMO).

This report provides further progress and expanded information on the status of ENCs in the MACHC Region. The Report's annexes provide a status of ENC coverage, along with a regional ENC scheme.

BACKGROUND

The primary driver for the development of ENCs resides with the International Maritime Organization announced the six-year timeframe for implementing ECDIS as a carriage requirement for large passenger, tanker, and cargo ships, as shown in the graph below:



Courtesy of UKHO

As the deadline for implementing ECDIS as a carriage requirement for Existing Passenger Ships approaches, the Cruise Industry has become more engaged in the deliberations of the MICC. Since Passenger Vessels will be required to have ECDIS on board, the importance of making ENC's available for the specific Cruise Lines destinations will be essential. Both the Risk Assessment exercise as well as the Port Analysis exercise (noted in the "What's New" section) has provided useful information to identify needs for future MICC in for planning purposes. Cruise Lines operators have indicated their desire for ENC's for their specific ports of call within the MACHC area and the MICC is making every effort to have the ENC's in place by the IMO deadline.

WORK PLANS AND PROCESS

The Work Processes and Methodologies are unchanged from previous years and are not repeated here. Please refer to the December 2013 "Report of the Meso American and Caribbean Sea Hydrographic Commission Integrated Charting Committee" for details.

CONCLUSIONS

For the Atlantic side, the MICC continued to make progress towards its goal of ensuring adequate regional ENC coverage (Usage Bands 1-6) by the various IMO dates. The MICC established a regional scheme (see Annex A) that shows ENC coverage along with a tabulation of ENC cells and status, based on the format of the paper INT Chart scheme found in Ed. 2.003 of S-11. The tables in Annex A identify ENC's that are currently distributed, as well as the anticipated distribution dates of those not yet available for use by the mariner.

For the Pacific side of the MACHC Region, the MICC developed a similar regional scheme (see Annex A) showing ENC coverage of the Pacific side along with a tabulation of ENC cells and status.

The goal of attaining the total number of ENC cells, as required, by Usage Bands to achieve adequate coverage as per the WEND Principles is getting ever closer. Although this number will achieve adequate coverage within the Region, it should be noted that the Cruise Line Industry has requested several additional large-scale ENC coverage for selected Ports of Call. Several Member States either already have or are planning additional cells to supplement their existing suite of ENC's to improve coverage beyond the "adequate" requirement of the WEND Principles and to satisfy the Cruise Lines. These additional cells are included in the listing of ENC's at Annex A to this report.

The table at right represents a summary of this year's accomplishments. It should be noted that because 14 cells were withdrawn due to possible duplication and/or overlaps, it reduced the new 2014 increase from 96 cells to a net of 82 new cells for this year.

Newly Available cells in 2014	96
Cells Canceled in 2014	14
Total Cells Available 2013	583
Total Cells Available 2014	665
Net New Cells in 2014	82

The bar graph below provides a snapshot of the significant increase in ENC cells for the MACHC Region.

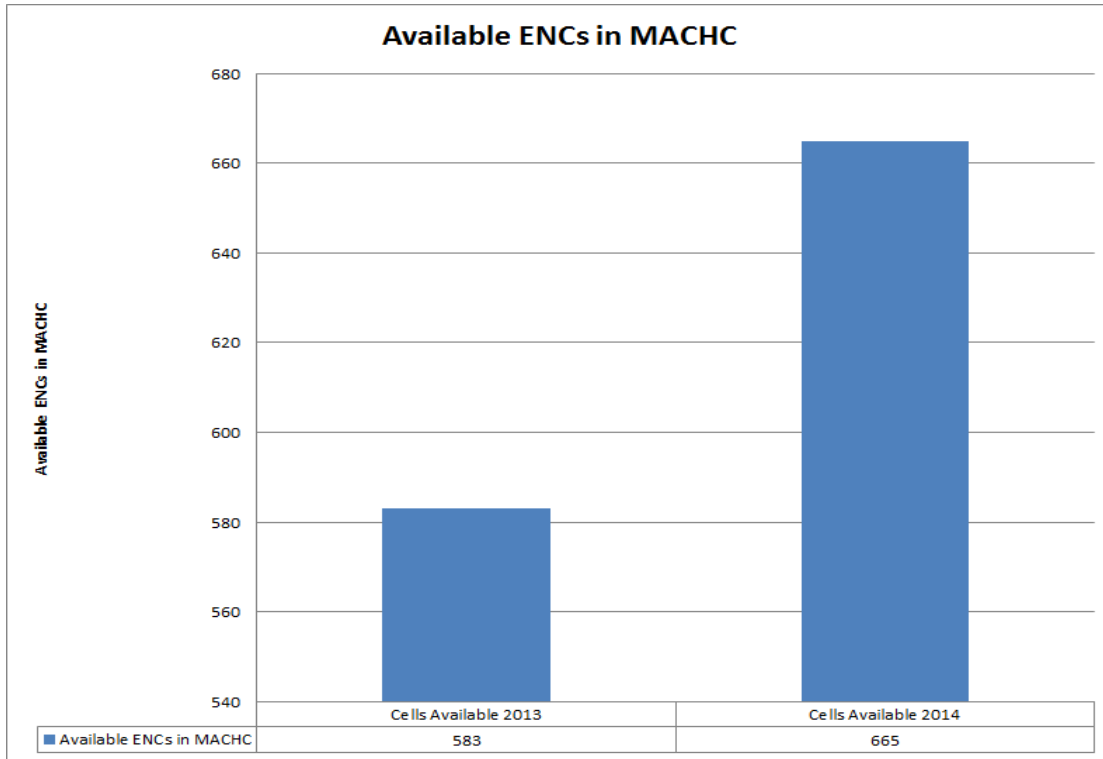


Figure 5

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

Usage Band	Total cells	Cells currently available	Cells available by Dec 2014	Cells available by July 2015
Usage Band 1	7	6	6	7
		86%	86%	100%
Usage Band 2	24	19	19	24
		79%	79%	100%
Usage Band 3	106	83	83	106
		78%	78%	100%
Usage Band 4	211	176	182	208
		83%	86%	99%
Usage Band 5	327	263	265	265
		80%	81%	81%
Usage Band 6	19	17	17	18
		89%	89%	95%
All Usage Bands	694	564	572	628
		81%	82%	90%

PACIFIC SIDE

For the Pacific side of the MACHC Region, the MICC developed a similar regional scheme (see Annex A) showing ENC coverage of the Pacific side along with a tabulation of ENC cells and status. The tables in Annex A identify ENCs that are currently distributed, as well as the anticipated distribution dates of those not yet available for use by the mariner.

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

Usage Band	Total cells	Cells currently available	Cells available by Dec 2014	Cells available by July 2015
Usage Band 1	7	5	5	7
		71%	71%	100%
Usage Band 2	15	15	15	15
		100%	100%	100%
Usage Band 3	11	10	10	11
		91%	91%	100%
Usage Band 4	25	25	25	25
		100%	100%	100%
Usage Band 5	41	40	40	40
		98%	98%	98%
Usage Band 6	6	6	6	6
		100%	100%	100%
All Usage Bands	105	101	101	104
		96%	96%	99%

When all of the ENCs identified in the scheme are officially distributed, the region will technically meet the definition of “adequate” coverage, i.e., where there is a paper chart, (as identified in the INT Chart footprint) there is a corresponding ENC and all “priority ports” are covered by an ENC. The MICC also examined ENC schemes in adjacent Regional Hydrographic Commissions (Southeast Pacific Hydrographic Commission, Southwest Atlantic Hydrographic Commission, and U.S.-Canada Hydrographic Commission) and ensured that all MACHC ENC cells fit seamlessly with the adjacent schemes.

The MICC further acknowledges that some Member States may encounter circumstances, despite their best intentions, which may preclude them from completing their planned ENC coverage by the due dates. These circumstances may include technical issues, geo-politics, resource constraints, or capacity-building setbacks. Should this situation occur, the MICC developed options to provide potential ENC coverage as a temporary solution at the December 2011 St. Kitts meeting. They are further elaborated in recommendation seven.

SECTION 4-Recommendations

RECOMMENDATIONS

The MICC makes the following recommendations for 2015:

1. MICC continue to monitor and update the Region B, both for the Atlantic and Pacific side, ENC scheme for all Usage Bands, per the timetables indicated in Annex A.
2. As a permanent task, MICC invites all MACHC Member States to provide the MICC with updates to their ENC production plans.
3. In order to create the IHO worldwide ENC database, the MICC encourages all ENC producers to make their ENCs available through Regional Electronic Navigational Chart Coordinating Centers (RENCs), even if they are also distributed by different channels.
4. If Member States are unable to complete their ENC coverage in the designated timeframes, the MACHC, in partnership with appropriate authorities, should pursue options to address this situation, in accordance with the IMO ECDIS Requirements and the WEND principles.
5. MICC continue to monitor and update the Region B INT Chart scheme for all scales for both the Atlantic and Pacific sides.
6. As a permanent task, MICC invites all MACHC Member States to provide the MICC with updates to their INT Chart schemes and production plans.
7. MICC encourages Member States to synchronize the release of new (and updated editions) “INT Charts” and “ENCs” as best as possible.
8. MACHC Chair is invited to provide this report to the International Hydrographic Bureau (IHB) as the region’s contribution to global (ENC and INT) chart coverage so that it may be conveyed as appropriate to the IMO.

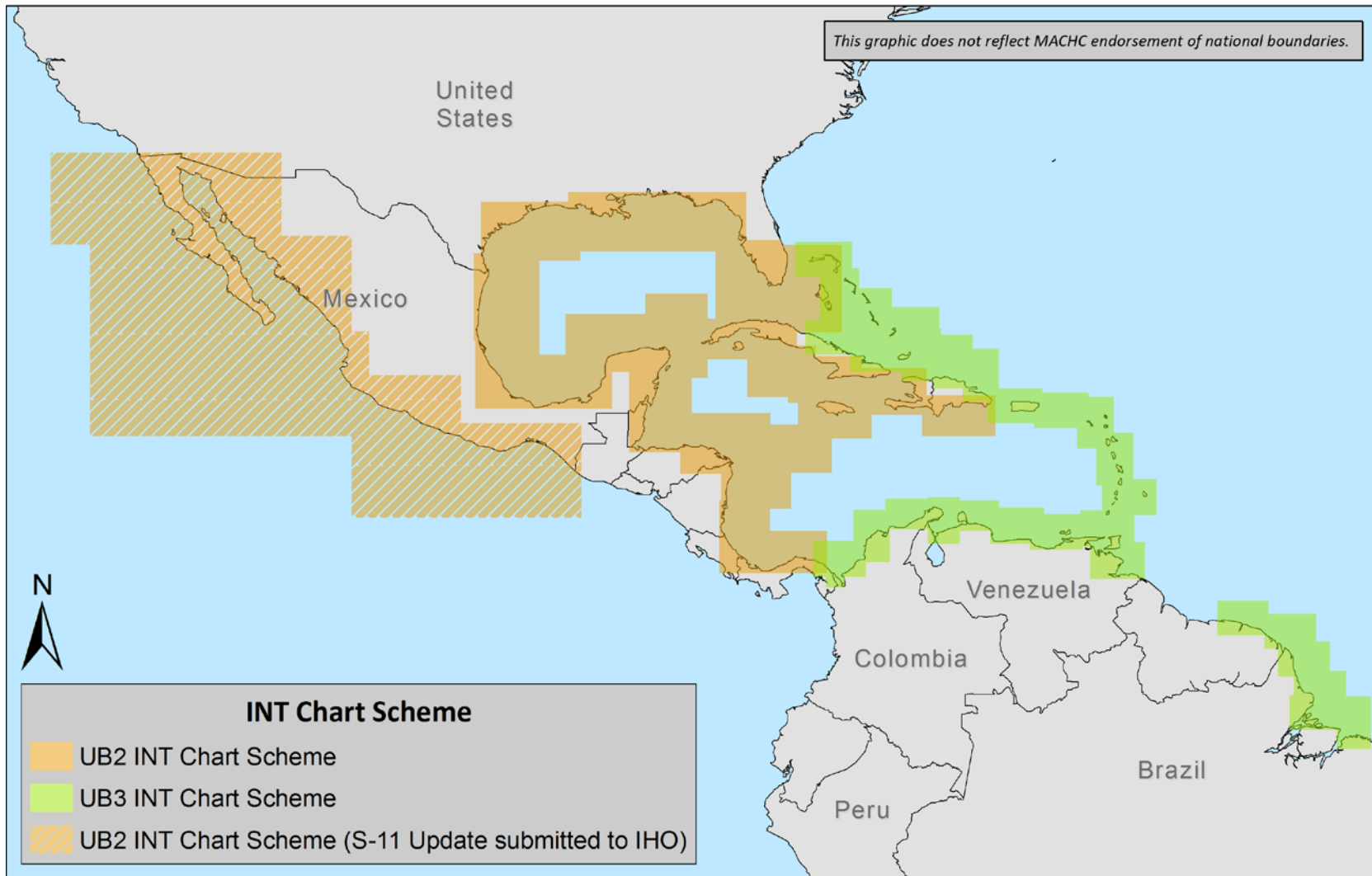
ACTIONS REQUIRED OF THE MACHC

The MICC invites MACHC Member States to note and endorse this report and its recommendations. The MICC also requests that the MACHC Chair then transmit the report to the IHB for final communications as appropriate to the IMO.

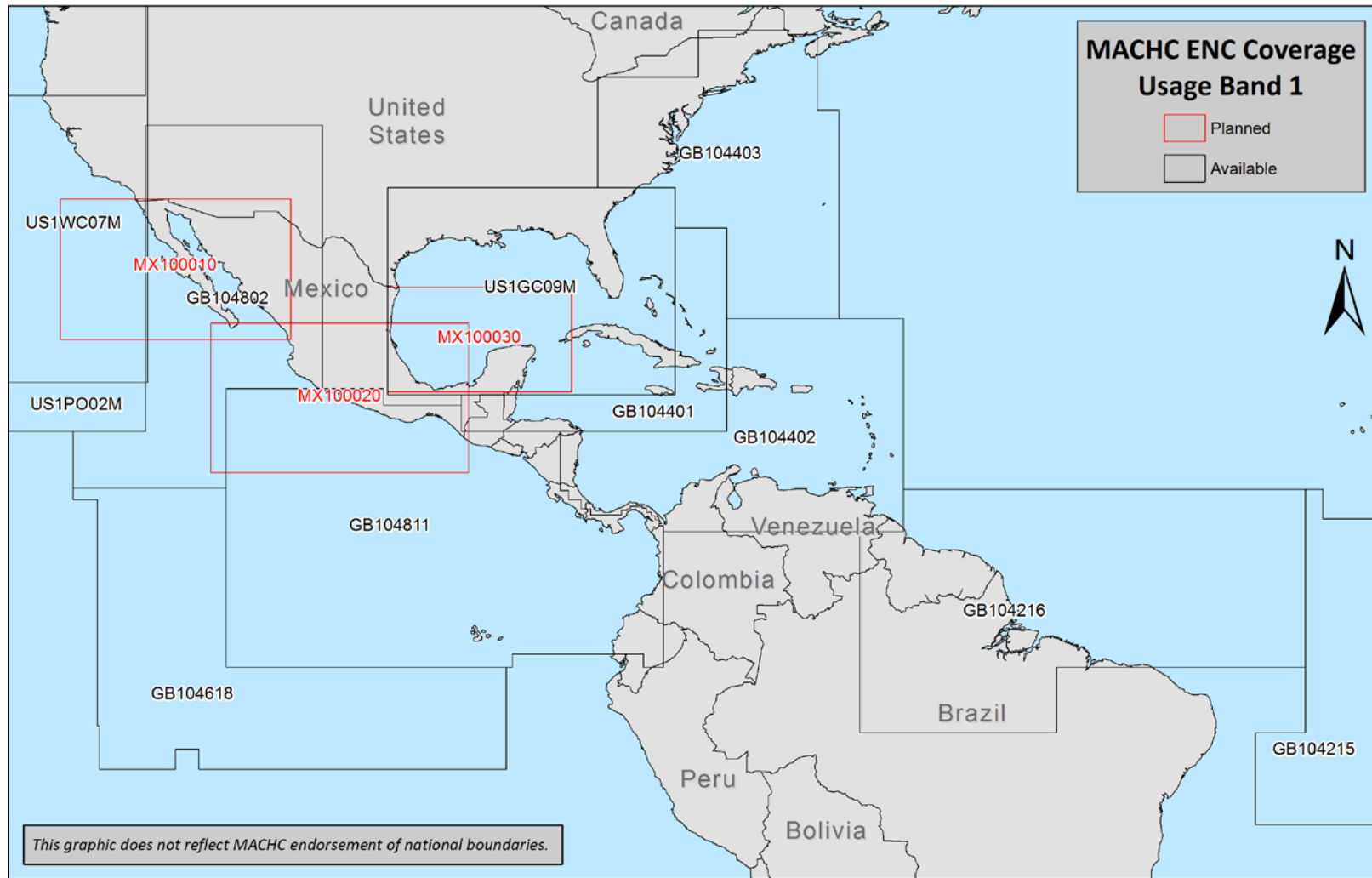
ANNEXES

- A. MACHC ENC Scheme for the Atlantic and Pacific
- B. Member States Actions Addressing Scheme Gaps/Overlaps
- C. Work Plan Milestones
 - Work Plan, 2013
 - Work Plan, 2012
 - Work Plan, 2011
 - Work Plan, 2010
- D. Priority Ports List
- E. List of MICC Participants

ANNEX A – INT CHART FOOTPRINT



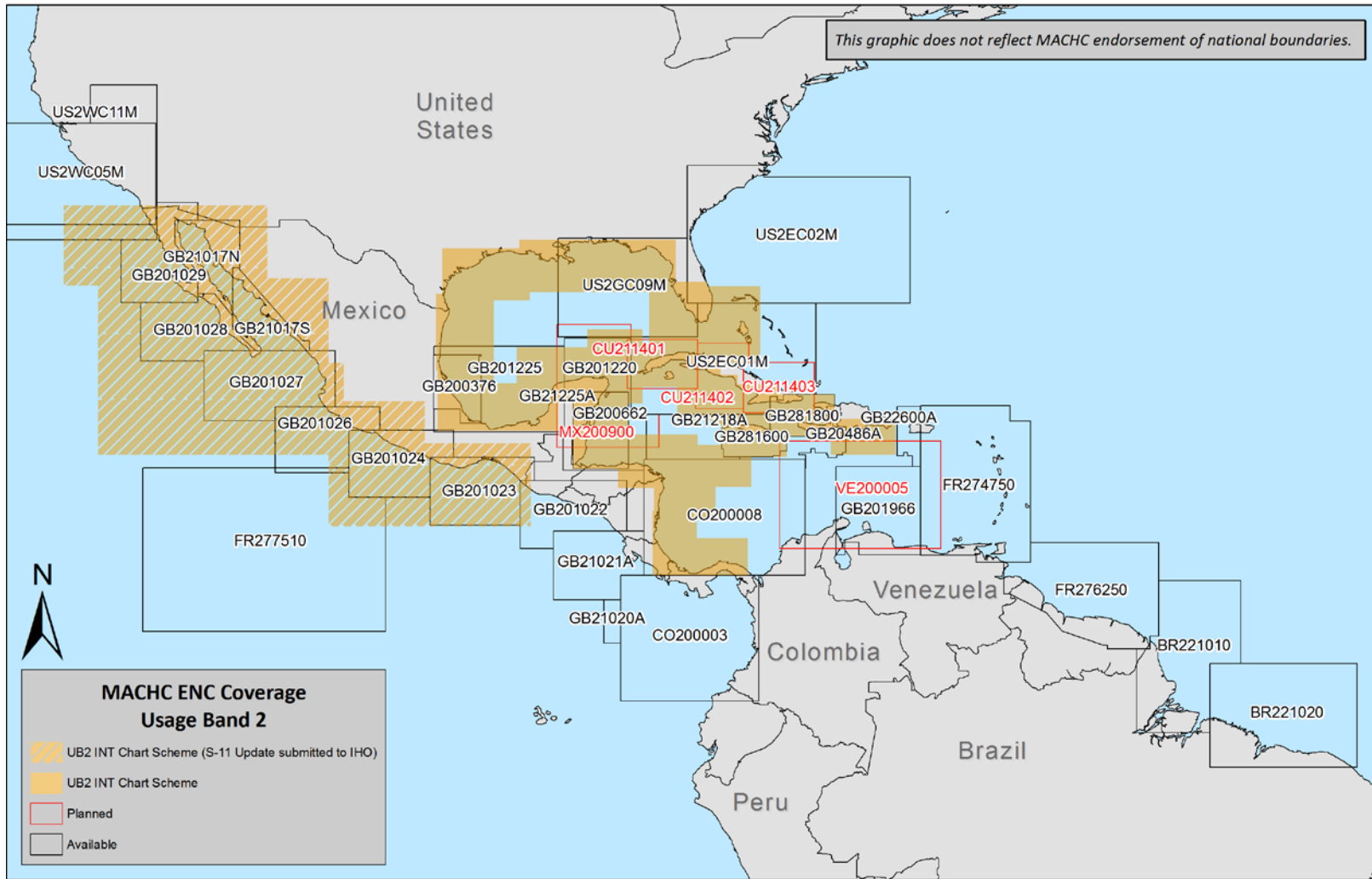
ANNEX A – USAGE BAND 1 MAP



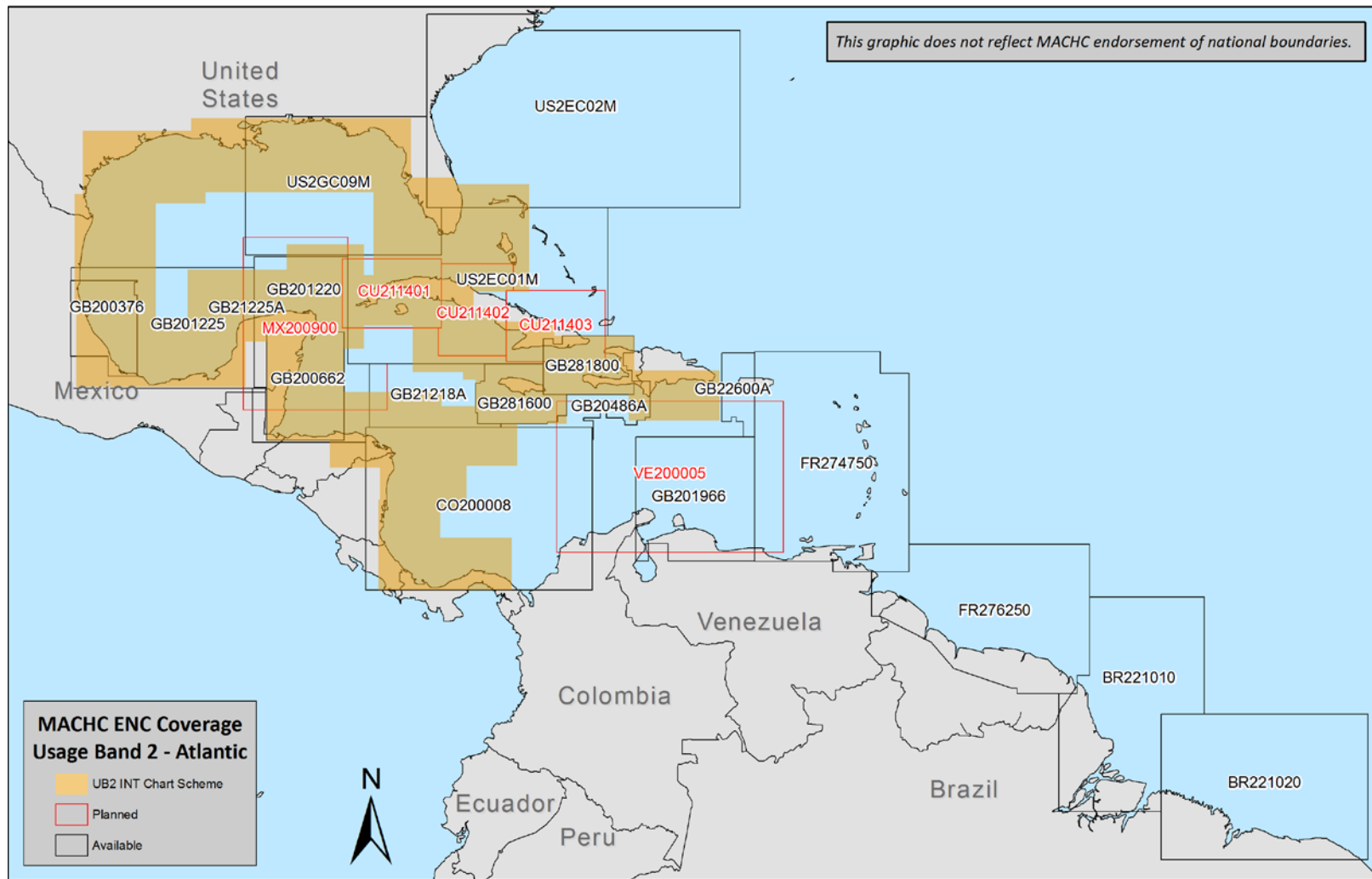
ANNEX A – ENC CELLS USAGE BAND 1 TABLE

Cell Name	Producing Auth	Title	Scale 1:	Status	Distributed by	Coast
GB104215	UKHO	Atlantic Ocean - Gambia Basin to Brazil Basin	3500000	Available	EUSP	Atlantic
GB104216	UKHO	Atlantic Ocean - North East Coast of South America	3500000	Available	IC-ENC	Atlantic
GB104401	UKHO	North Atlantic Ocean - Gulf of Mexico	2750000	Available	IC-ENC	Atlantic
GB104402	UKHO	North Atlantic Ocean – Caribbean Sea	1500000	Available	IC-ENC	Atlantic
GB104403	UKHO	North Atlantic Ocean - SE Coast of North America - Brunswick to Philadelphia inc Bermuda	3500000	Available	IC-ENC	Atlantic
GB104618	UKHO	Clipperton Fracture Zone to Bauer Basin	3500000	Available	IC-ENC	Pacific
GB104802	UKHO	North Pacific Ocean - West Coast of Mexico - Cabo San Quintin to Punta San Telmo	3500000	Available	IC-ENC	Pacific
GB104811	UKHO	Pacific Ocean - Central America - Mexico to Ecuador	3500000	Available	IC-ENC	Pacific
MX100010	SEMAR	Ensenada a Mazatlan Incluyendo Golfo de California	500000	Jul-15	IC-ENC	Pacific
MX100020	SEMAR	Mazatlan a Puerto Chiapas	500000	Jul-15	IC-ENC	Pacific
MX100030	SEMAR	Rio Bravo a Bahia de Chetumal	500000	Jul-15	IC-ENC	Atlantic
US1GC09M	NOAA	Gulf of Mexico	2160000	Available	NOAA	Atlantic
US1PO02M	NOAA	North Pacific Ocean (e. part) Bering Sea Cont B	10000000	Available	NOAA	Pacific
US1WC07M	NOAA	San Diego to Aleutian Islands and Hawaiian Islands	4860700	Available	NOAA	Pacific

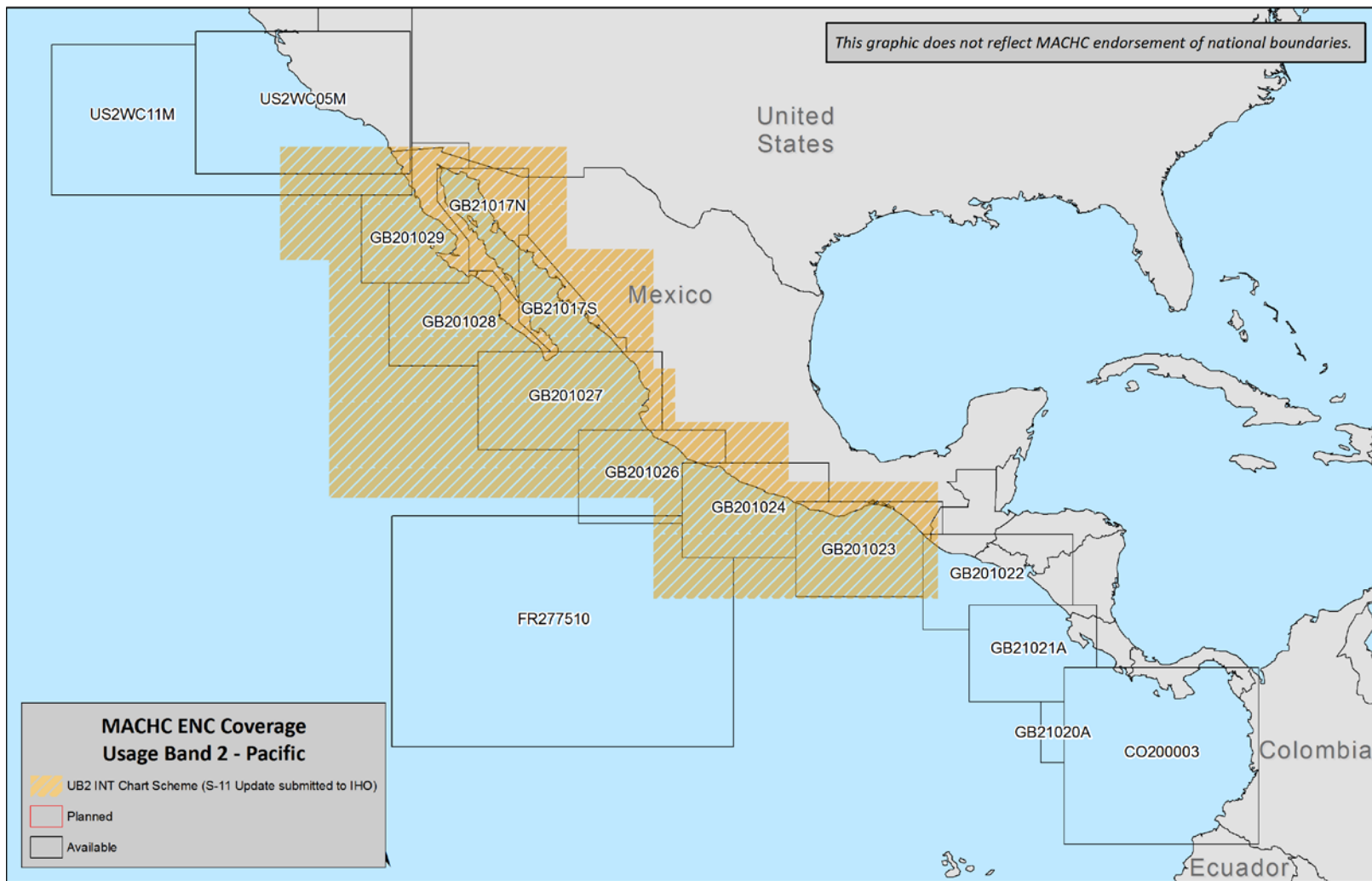
ANNEX A – USAGE BAND 2 MAPS



ANNEX A – USAGE BAND ATLANTIC



ANNEX A – USAGE BAND 2 PACIFIC

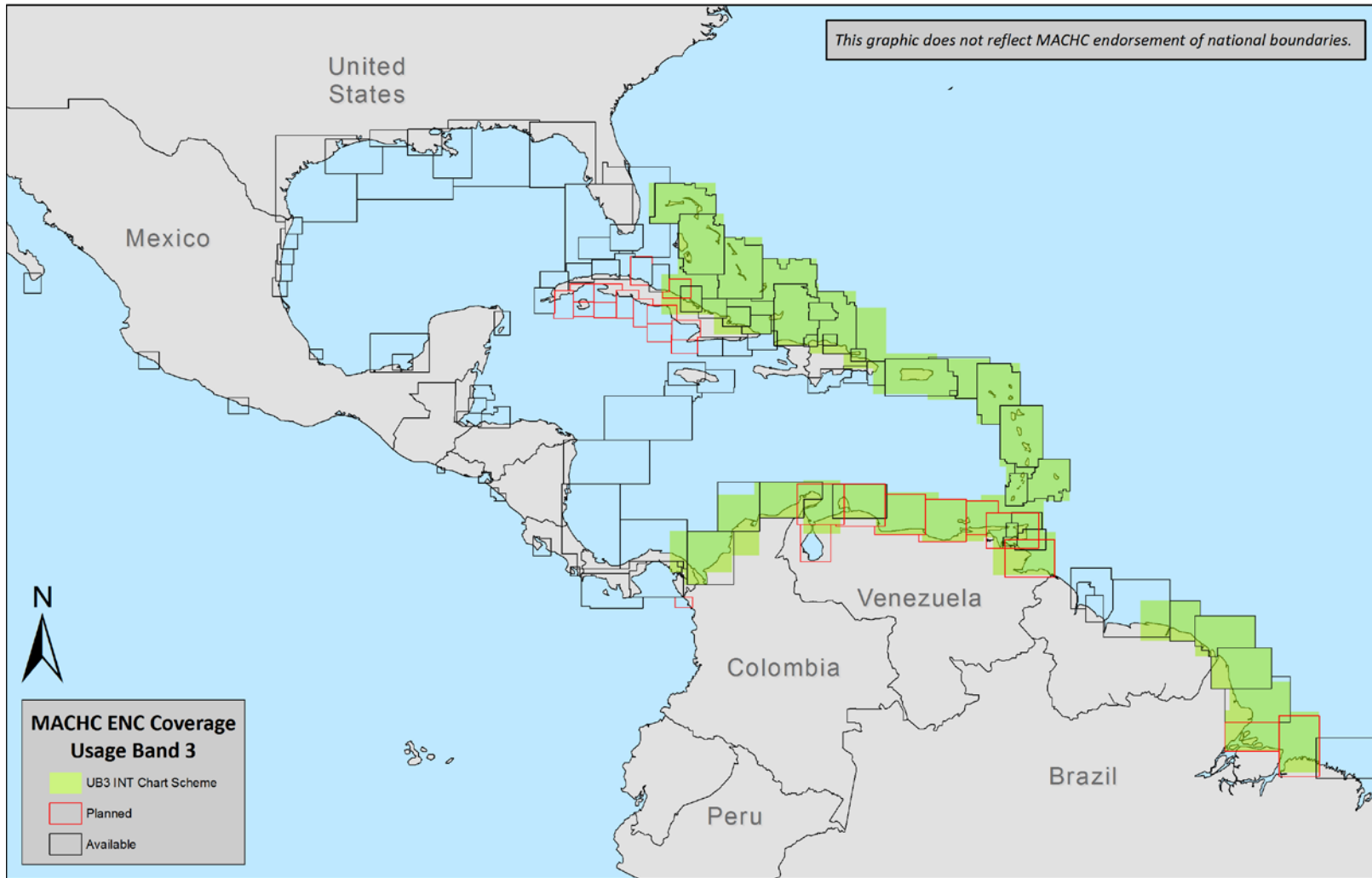


ANNEX A – ENC CELLS USAGE BAND 2 TABLE

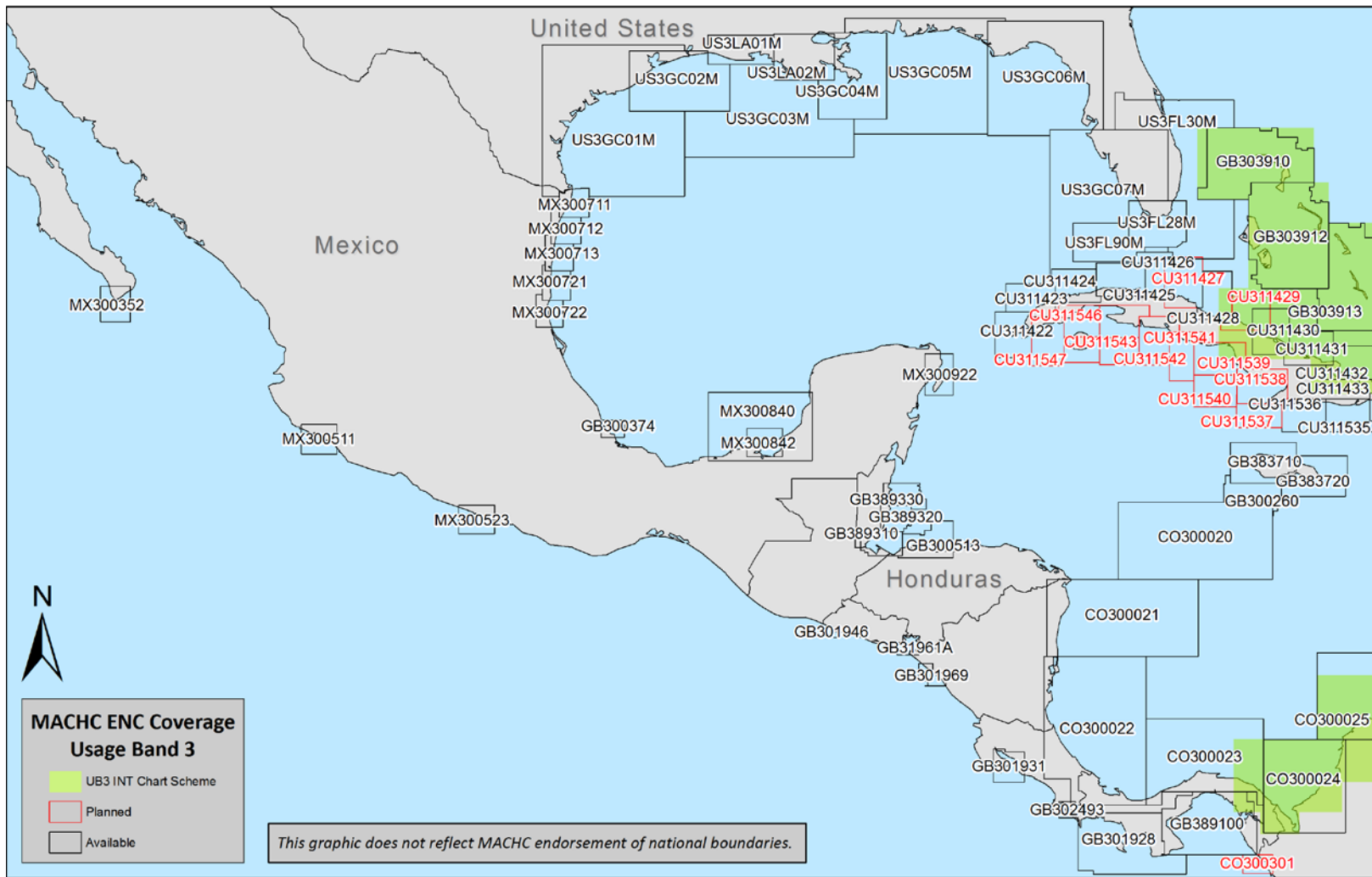
Cell Name	Producing Auth	Title	Scale 1:	Status	Distributed by	Coast
BR221010	DHN (BR)	Do Cabo Orange à Ilha de Cajutuba	700000	Available	IC-ENC/PRIMAR	Atlantic
BR221020	DHN (BR)	De Salinópolis a Fortaleza	700000	Available	IC-ENC/PRIMAR	Atlantic
CO200003	CIOH	Costa Oeste de Colombia	700000	Available	IC-ENC	Pacific
CO200008	CIOH	Cabo Gracias a Dios a Santa Marta	700000	Available	IC-ENC	Atlantic
CU211401	SHGC	Océano Atlantico Parte Occidental de Cuba	350000	Jul-15	IC-ENC	Atlantic
CU211402	SHGC	Océano Atlantico Parte Central de Cuba	350000	Jul-15	IC-ENC	Atlantic
CU211403	SHGC	Océano Atlantico Parte Oriental de Cuba	350000	Jul-15	IC-ENC	Atlantic
FR274750	SHOM	Puerto Rico to Trinidad	700000	Available	PRIMAR	Atlantic
FR276250	SHOM	Delta Del Orinoco to Cayenne	700000	Available	PRIMAR	Atlantic
FR277510	SHOM	Clipperton Island	1570000	Available	PRIMAR	Pacific
GB200376	UKHO	Mexico - East Coast - Veracruz to Altamira	350000	Available	IC-ENC	Atlantic
GB200662	UKHO	Central America - East Coast - Isla de Guanaja to Isla Cozumel including The Gulf of Honduras	350000	Available	EUSP	Atlantic
GB201022	UKHO	Puerto Masachapa to Chanperico	700000	Available	IC-ENC	Pacific
GB201023	UKHO	Barra de San Jose to Punta Galerla	700000	Available	IC-ENC	Pacific
GB201024	UKHO	Punta Maldonado to Punta Mangrove	700000	Available	IC-ENC	Pacific
GB201026	UKHO	Punta Mangrove to Punta Farallón	700000	Available	IC-ENC	Pacific
GB201027	UKHO	Mexico - Pacific Coast - Outer Approaches to Golfo de California	700000	Available	IC-ENC	Pacific
GB201028	UKHO	Mexico - Pacific Ocean Coast Punta Pescadero to Punta Bronaugh	700000	Available	IC-ENC	Pacific
GB201029	UKHO	Punta Abreojos to Cabo San Quintin	700000	Available	IC-ENC	Pacific
GB201220	UKHO	Gulf of Honduras	700000	Available	IC-ENC	Atlantic
GB201225	UKHO	Gulf of Campeche	700000	Available	EUSP	Atlantic
GB201966	UKHO	Punta Naguayata to Punta Gallinas	700000	Available	IC-ENC	Atlantic
GB20486A	UKHO	West Indies - Bajo Nuevo to South of Haiti	700000	Available	IC-ENC	Atlantic

Cell Name	Producing Auth	Title	Scale 1:	Status	Distributed by	Coast
GB21017N	UKHO	Mexico - Pacific Coast - Golfo de California - San Felipe to Isla Carmen	700000	Available	IC-ENC	Pacific
GB21017S	UKHO	Mexico - Pacific Coast - Golfo de California - Guaymas to Mazatlan	700000	Available	IC-ENC	Pacific
GB21020A	UKHO	Pacific Ocean - Isla Del Coco	700000	Available	IC-ENC	Pacific
GB21021A	UKHO	Costa Rica and Nicaragua - Pacific Ocean Coast - Golfo De Nicoya to Cabo Santa Elena	700000	Available	IC-ENC	Pacific
GB21218A	UKHO	Caribbean Sea - Cuba to Miskito Bank	700000	Available	IC-ENC	Atlantic
GB21225A	UKHO	Gulf of Mexico Campeche	1000000	Available	EUSP	Atlantic
GB22600A	UKHO	Approaches to Puerto Rico	700000	Available	IC-ENC	Atlantic
GB281600	UKHO	Approaches to Jamaica	350000	Available	IC-ENC	Atlantic
GB281800	UKHO	Windward Passage and Southern Approaches	350000	Available	EUSP	Atlantic
MX200900	SEMAR	Canal de Yucatan y Proximidades	700000	Jul-15	IC-ENC	Atlantic
US2EC01M	NOAA	Straits of Florida and Approaches	1200000	Available	NOAA	Atlantic
US2EC02M	NOAA	Cape Hatteras to Straits of Florida	1200000	Available	NOAA	Atlantic
US2GC09M	NOAA	Gulf Coast - Key West to Mississippi River	875000	Available	NOAA	Atlantic
US2WC05M	NOAA	San Diego to San Francisco Bay	868003	Available	NOAA	Pacific
US2WC11M	NOAA	San Diego To Cape Mendocino	1444000	Available	NOAA	Pacific
VE200005	DHN	Cabo Codera a Punta Canoas e Isl Adyacentes	700000	Jul-15	IC-ENC	Atlantic

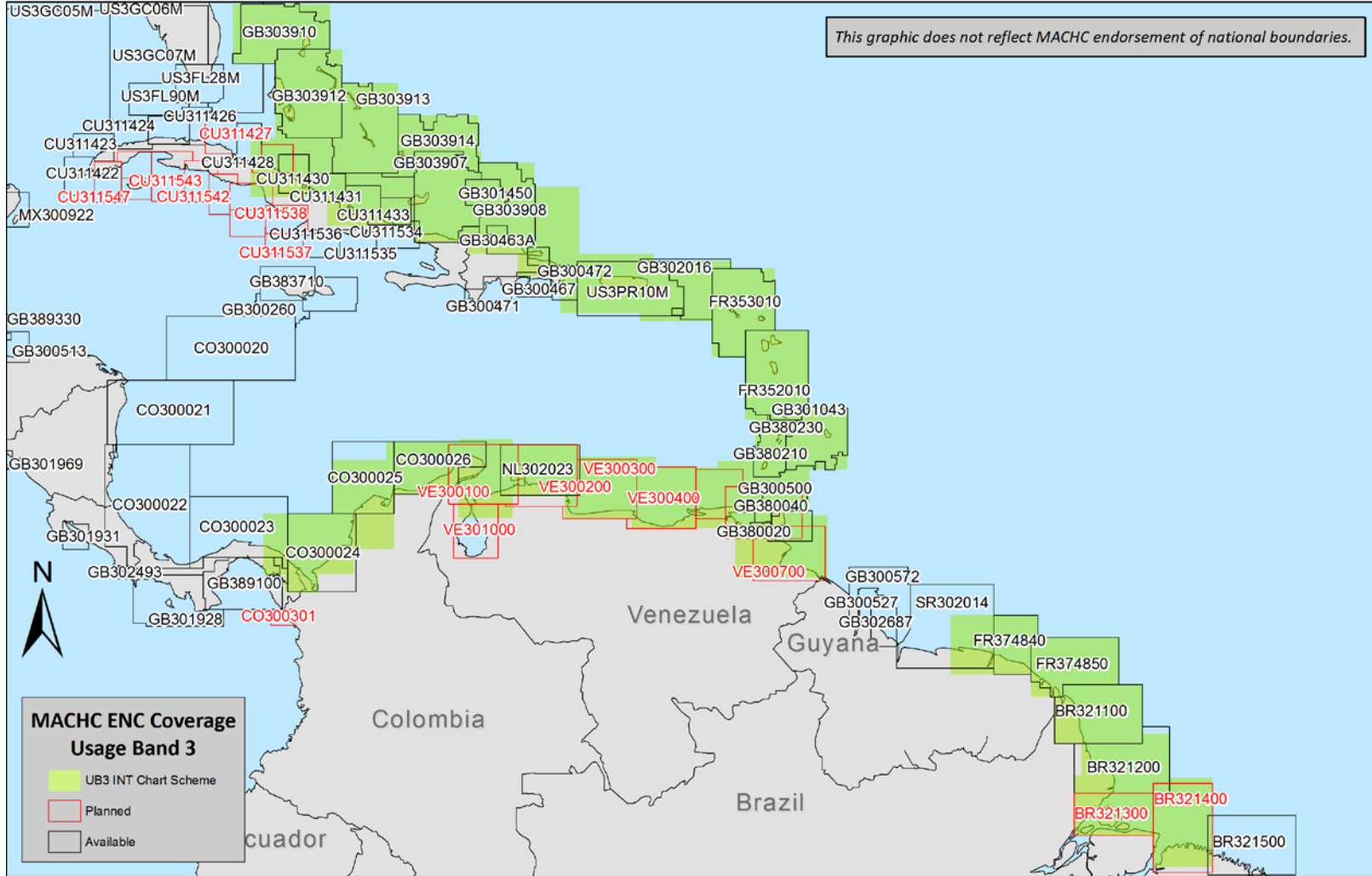
ANNEX A – USAGE BAND 3 MAPS



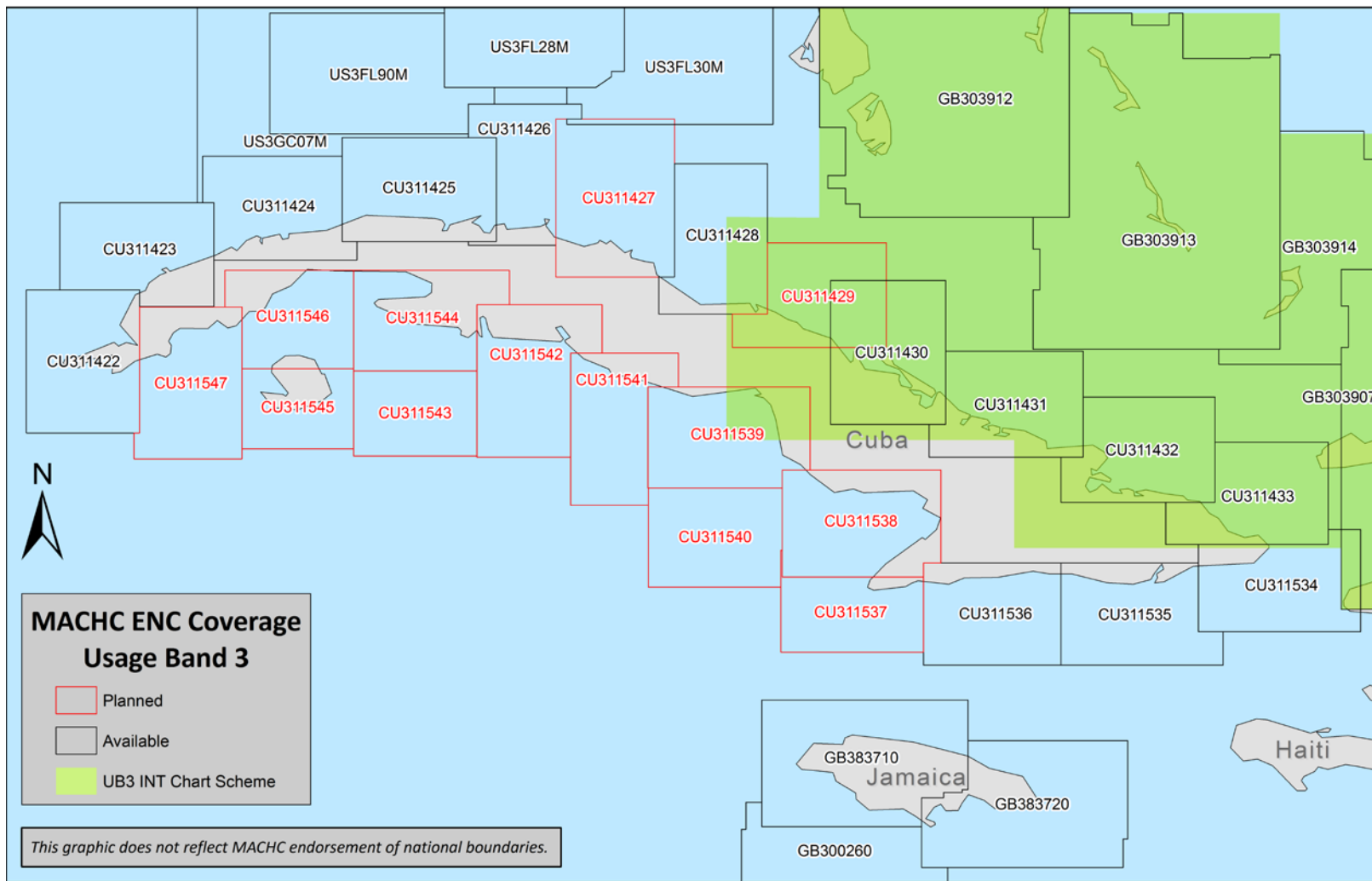
ANNEX A



ANNEX A



ANNEX A



ANNEX A – ENC CELLS USAGE BAND 3 TABLE

Cell Name	Producing Auth	Title	Scale 1:	Status	Distributed by	Coast
BR321100	DHN (BR)	Do Cabo Orange a Ponta Cambu	180000	Available	IC-ENC/PRIMAR	Atlantic
BR321200	DHN (BR)	Do Rio Calçoene a Ilha Sipioca	180000	Available	IC-ENC/PRIMAR	Atlantic
BR321300	DHN (BR)	Do Rio Araguari a Ilha das Flechas	180000	Jul-15	IC-ENC/PRIMAR	Atlantic
BR321400	DHN (BR)	Do Machadinho a Ponta Quatipuru	180000	Jul-15	IC-ENC/PRIMAR	Atlantic
BR321500	DHN (BR)	Da Ponta Boiuçucanga a Ilha Urumarú	180000	Available	IC-ENC/PRIMAR	Atlantic
CO300020	CIOH	Pedro Bank a Gorda Bank	180000	Available	IC-ENC	Atlantic
CO300021	CIOH	Cabo Gracias a Dios a Isla de Providencia	180000	Available	IC-ENC	Atlantic
CO300022	CIOH	Isla de San Andrés a Golfo de los Mosquitos	180000	Available	IC-ENC	Atlantic
CO300023	CIOH	Golfo de los Mosquitos a Punta Mosquito	180000	Available	IC-ENC	Atlantic
CO300024	CIOH	Cabo Tiburón a Bahía de Cartagena	180000	Available	IC-ENC	Atlantic
CO300025	CIOH	Punta Canoas a Santa Marta	180000	Available	IC-ENC	Atlantic
CO300026	CIOH	Punta Chengue a Castilletes Gallinas	180000	Available	IC-ENC	Atlantic
CO300301	CIOH	Punta Ardita a Bahía Octavia	90000	Jul-15	IC-ENC	Pacific
CU311422	SHGC	De Cabo Corrientes a Cayos de Buenavista	90000	Available	IC-ENC	Atlantic
CU311423	SHGC	De Cayos de Buenavista a Cayo Arenas	90000	Available	IC-ENC	Atlantic
CU311424	SHGC	De Cayo Arenas a la Bahía de La Habana	90000	Available	IC-ENC	Atlantic
CU311425	SHGC	De la Bahía de La Habana a la Bahía de Cardenas	90000	Available	IC-ENC	Atlantic
CU311426	SHGC	De Bahía de Cárdenas a Cayo Bahía de Cádiz	90000	Available	IC-ENC	Atlantic
CU311427	SHGC	De Cayos de Cádiz a Cayo Fragoso	90000	Jul-15	IC-ENC	Atlantic
CU311428	SHGC	De Cayos Fragoso a Cayo Guillermo	90000	Available	IC-ENC	Atlantic
CU311429	SHGC	De Cayería Los Caimanes a Cayo Verde	90000	Jul-15	IC-ENC	Atlantic
CU311430	SHGC	De Cayos Cruz a la Bahía de Nuevitas	90000	Available	IC-ENC	Atlantic
CU311431	SHGC	De la Bahía de Nuevitas a la Bahía de Naranjos	90000	Available	IC-ENC	Atlantic
CU311432	SHGC	De la Bahía de Vitas a Bahía de Cayo Moa	90000	Available	IC-ENC	Atlantic
CU311433	SHGC	De Bahía de Cayo Moa a Maisí	90000	Available	IC-ENC	Atlantic

Cell Name	Producing Auth	Title	Scale 1:	Status	Distributed by	Coast
CU311534	SHGC	De Maisí a Punta Imías Paso de los vientos	90000	Available	IC-ENC	Atlantic
CU311535	SHGC	De punta Imías a la Bahía de Santiago de Cuba	90000	Available	IC-ENC	Atlantic
CU311536	SHGC	De la Bahía de Santiago de Cuba a la Ensenada Marea del Portillo	90000	Available	IC-ENC	Atlantic
CU311537	SHGC	De la Ensenada Marea del Portillo al Canal de Madrona	90000	Jul-15	IC-ENC	Atlantic
CU311538	SHGC	Golfo de Guacanayabo	90000	Jul-15	IC-ENC	Atlantic
CU311539	SHGC	Del Canal del Pingüe a Tunas de Zaza	90000	Jul-15	IC-ENC	Atlantic
CU311540	SHGC	De punta Cabeza del Este a Cayo Anclitas	90000	Jul-15	IC-ENC	Atlantic
CU311541	SHGC	De Cayo Bretón a Punta San Juan	90000	Jul-15	IC-ENC	Atlantic
CU311542	SHGC	De Yaguanabo a Bahía de Cochinos	90000	Jul-15	IC-ENC	Atlantic
CU311543	SHGC	De Cayo Guano del Este a Cayo Ávalos	90000	Jul-15	IC-ENC	Atlantic
CU311544	SHGC	De la Bahía de Cochinos a Surgidero de Batabanó	90000	Jul-15	IC-ENC	Atlantic
CU311545	SHGC	De Cayo Ávalos a los Cayos de San Felipe	90000	Jul-15	IC-ENC	Atlantic
CU311546	SHGC	Golfo de Batabanó	90000	Jul-15	IC-ENC	Atlantic
CU311547	SHGC	De Cayos de San Felipe a Cabo Francés	90000	Jul-15	IC-ENC	Atlantic
FR352010	SHOM	Monserrat to Saint Lucia	304405	Available	PRIMAR	Atlantic
FR353010	SHOM	Anguilla to Monserrat	301202	Available	PRIMAR	Atlantic
FR374840	SHOM	Paramaribo à Sinnamary	180000	Available	PRIMAR	Atlantic
FR374850	SHOM	Iles du Salut à la Baie de l'Oyapok	180000	Available	PRIMAR	Atlantic
GB300260	UKHO	West Indies - Pedro Bank to the South Coast of Jamaica	180000	Available	IC-ENC	Atlantic
GB300374	UKHO	Mexico - East Coast - Punta El Coyol to Punta Zempoala	90000	Available	EUSP	Atlantic
GB300467	UKHO	West Indies - Dominican Republic - Isla Catalina to Boca Chica	180000	Available	EUSP	Atlantic
GB300471	UKHO	Dominican Republic - South Coast - Cabo Caucedo to Isla Alto Velo	180000	Available	EUSP	Atlantic

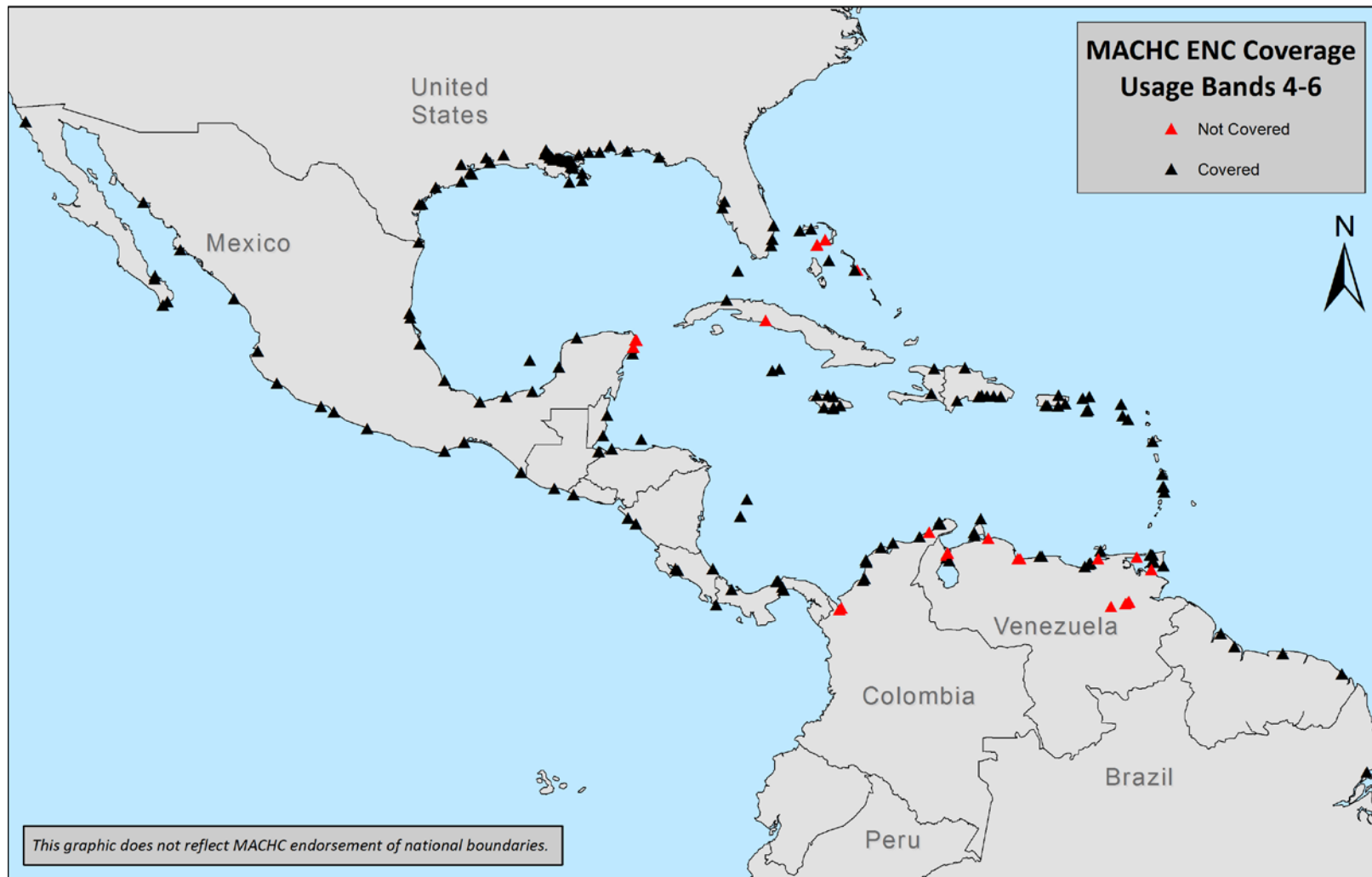
Cell Name	Producing Auth	Title	Scale 1:	Status	Distributed by	Coast
GB300472	UKHO	Dominican Republic and Puerto Rico - Mona Passage	180000	Available	EUSP	Atlantic
GB300500	UKHO	West Indies - North East Approaches to Trinidad	90000	Available	EUSP	Atlantic
GB300501	UKHO	West Indies - South East Approaches to Trinidad	90000	Available	EUSP	Atlantic
GB300513	UKHO	Central America - East Coast - Honduras - Isla de Roatan to Punta Ulua	180000	Available	EUSP	Atlantic
GB300527	UKHO	Approaches to Demerara and Essequibo Rivers	90000	Available	IC-ENC	Atlantic
GB300572	UKHO	South America - North-East Coast - Essequibo River to Corentyn River	350000	Available	IC-ENC	Atlantic
GB301043	UKHO	Barbados	180000	Available	IC-ENC	Atlantic
GB301450	UKHO	Turks Island Passage and Mouchoir Passage	90000	Available	IC-ENC	Atlantic
GB301928	UKHO	Central America South Coast - Morro Puercos to Punta Burica	350100	Available	IC-ENC	Pacific
GB301931	UKHO	Central America - Costa Rica - West Coast - Golfo de Nicoya	300100	Available	IC-ENC	Pacific
GB301946	UKHO	Central America - Pacific Coast El Salvador Approaches to Acajutla	90000	Available	IC-ENC	Pacific
GB301969	UKHO	Nicaragua - Pacific Ocean Coast - Approaches to Corinto and Puerto Sandino	90000	Available	IC-ENC	Pacific
GB302016	UKHO	West Indies - British Virgin Islands	180000	Available	IC-ENC	Atlantic
GB302493	UKHO	Golfo Dulce	100000	Available	IC-ENC	Atlantic
GB302687	UKHO	South America - Guyana - Approaches to the Berbice River	90000	Available	IC-ENC	Atlantic
GB303907	UKHO	Passages Between Mayaguana Island & Turks & Caicos Islands	180000	Available	IC-ENC	Atlantic
GB303908	UKHO	West Indies - Passages Between Turks & Caicos Islands & Dominican Republic	180000	Available	IC-ENC	Atlantic
GB303910	UKHO	Bahamas - Little Bahama Bank Including North West Providence Channel	180000	Available	IC-ENC	Atlantic
GB303912	UKHO	Bahamas - North East Providence Channel &	180000	Available	IC-ENC	Atlantic

Cell Name	Producing Auth	Title	Scale 1:	Status	Distributed by	Coast
Tongue of the Ocean						
GB303913	UKHO	Bahamas - Crooked Island Passage & Exuma Sound	180000	Available	IC-ENC	Atlantic
GB303914	UKHO	Bahamas - North East Approaches to Acklins Island & Samana Cay	180000	Available	IC-ENC	Atlantic
GB30463A	UKHO	West Indies - Dominican Republic - North Coast - Punta Cabarete to Punta Brimball	180000	Available	IC-ENC	Atlantic
GB30463B	UKHO	West Indies - Dominican Republic - North Coast - Punta Mangle to Pointe Yaguezi	350100	Available	IC-ENC	Atlantic
GB30463C	UKHO	Plans on the North Coast of the Dominican Republic - Bahia de Samana and Approaches	180000	Available	EUSP	Atlantic
GB31961A	UKHO	Golfo de Fonseca	90000	Available	IC-ENC	Pacific
GB380020	UKHO	Trinidad and Venezuela - Serpent's Mouth	90000	Available	EUSP	Atlantic
GB380040	UKHO	Trinidad and Venezuela - Gulf of Paria	90000	Available	EUSP	Atlantic
GB380210	UKHO	Saint Vincent to Grenada	90000	Available	IC-ENC	Atlantic
GB380230	UKHO	Southern St Lucia to Northern St Lucia	90000	Available	IC-ENC	Atlantic
GB383710	UKHO	West Indies - Western Approaches to Jamaica	180000	Available	IC-ENC	Atlantic
GB383720	UKHO	West Indies - Eastern Approaches to Jamaica	180000	Available	IC-ENC	Atlantic
GB389100	UKHO	Gulf of Panama	180000	Available	IC-ENC	Pacific
GB389310	UKHO	Gulf of Honduras	180000	Available	IC-ENC	Atlantic
GB389320	UKHO	Belize - Monkey River to Colson Point	90000	Available	IC-ENC	Atlantic
GB389330	UKHO	Belize - Colson Point to Belize City	90000	Available	IC-ENC	Atlantic
MX300352	SEMAR	Banco Golden Gate a San José del Cabo	90000	Available	IC-ENC	Pacific
MX300511	SEMAR	Barra de Navidad a Boca de Apiza	90000	Available	IC-ENC	Pacific
MX300523	SEMAR	Cayaco a San Marcos	90000	Available	IC-ENC	Pacific
MX300711	SEMAR	Brazo Santiago a El Mezquital	90000	Available	IC-ENC	Atlantic
MX300712	SEMAR	El Mezquital a Boca Jesús Maria	90000	Available	IC-ENC	Atlantic
MX300713	SEMAR	Boca Jesús Maria a la Pesca	90000	Available	IC-ENC	Atlantic
MX300721	SEMAR	La Pesca a Punta Jerez	90000	Available	IC-ENC	Atlantic

Cell Name	Producing Auth	Title	Scale 1:	Status	Distributed by	Coast
MX300722	SEMAR	Punta Jerez a Tampico	90000	Available	IC-ENC	Atlantic
MX300840	SEMAR	Bahia de Campeche	180000	Available	IC-ENC	Atlantic
MX300842	SEMAR	Laguna Pom a Santa Cruz	90000	Available	IC-ENC	Atlantic
MX300922	SEMAR	Isla Mujeres a Isla Cozumel	90000	Available	IC-ENC	Atlantic
NL302023	NLHO	Carib Sea, Venezuela to Aruba, Curaçao and Bonaire	180000	Available	IC-ENC	Atlantic
SR302014	NLHO	Suriname	180000	Available	IC-ENC	Atlantic
US3CA70M	NOAA	San Diego to Santa Rosa Island	234270	Available	NOAA	Pacific
US3FL28M	NOAA	Fowey Rocks to American Shoal	180000	Available	NOAA	Atlantic
US3FL30M	NOAA	Cape Canaveral to Key West	466940	Available	NOAA	Atlantic
US3FL90M	NOAA	Florida Keys Sombrero Key to Dry Tortugas	180000	Available	NOAA	Atlantic
US3GC01M	NOAA	Galveston to Rio Grande	460732	Available	NOAA	Atlantic
US3GC02M	NOAA	Mermentau River to Freeport	250000	Available	NOAA	Atlantic
US3GC03M	NOAA	Mississippi River to Galveston	458596	Available	NOAA	Atlantic
US3GC04M	NOAA	Approaches to Mississippi River	250000	Available	NOAA	Atlantic
US3GC05M	NOAA	Cape St. George to Mississippi Passes	456394	Available	NOAA	Atlantic
US3GC06M	NOAA	Tampa Bay to Cape San Blas	456394	Available	NOAA	Atlantic
US3GC07M	NOAA	Havan to Tampa Bay	470940	Available	NOAA	Atlantic
US3LA01M	NOAA	IWW New Orleans to Calcasieu West	175000	Available	NOAA	Atlantic
US3LA02M	NOAA	IWW New Orleans to Calcasieu East	175000	Available	NOAA	Atlantic
US3PR10M	NOAA	Puerto Rico And Virgin Islands	326856	Available	NOAA	Atlantic
VE300100	DHN	Golfo de Venezuela	80000	Jul-15	IC-ENC	Atlantic
VE300200	DHN	Punta Cardon a Tucacas	80000	Jul-15	IC-ENC	Atlantic
VE300300	DHN	Punta San Juan a Cabo Codera	80000	Jul-15	IC-ENC	Atlantic
VE300400	DHN	Cabo Codera a Cumana	80000	Jul-15	IC-ENC	Atlantic
VE300500	DHN	Cumana a Cabo Tres Puntas	80000	Jul-15	IC-ENC	Atlantic
VE300600	DHN	Cabo Tres Puntas a Golfo de Paria	180000	Jul-15	IC-ENC	Atlantic

Cell Name	Producing Auth	Title	Scale 1:	Status	Distributed by	Coast
VE300700	DHN	Delta del Orinoco	180000	Jul-15	IC-ENC	Atlantic
VE301000	DHN	Lago de Maracaibo	180000	Jul-15	IC-ENC	Atlantic

ANNEX A – MACHC PRIORITY PORTS



ANNEX A – USAGE BANDS 4-6 MAPS



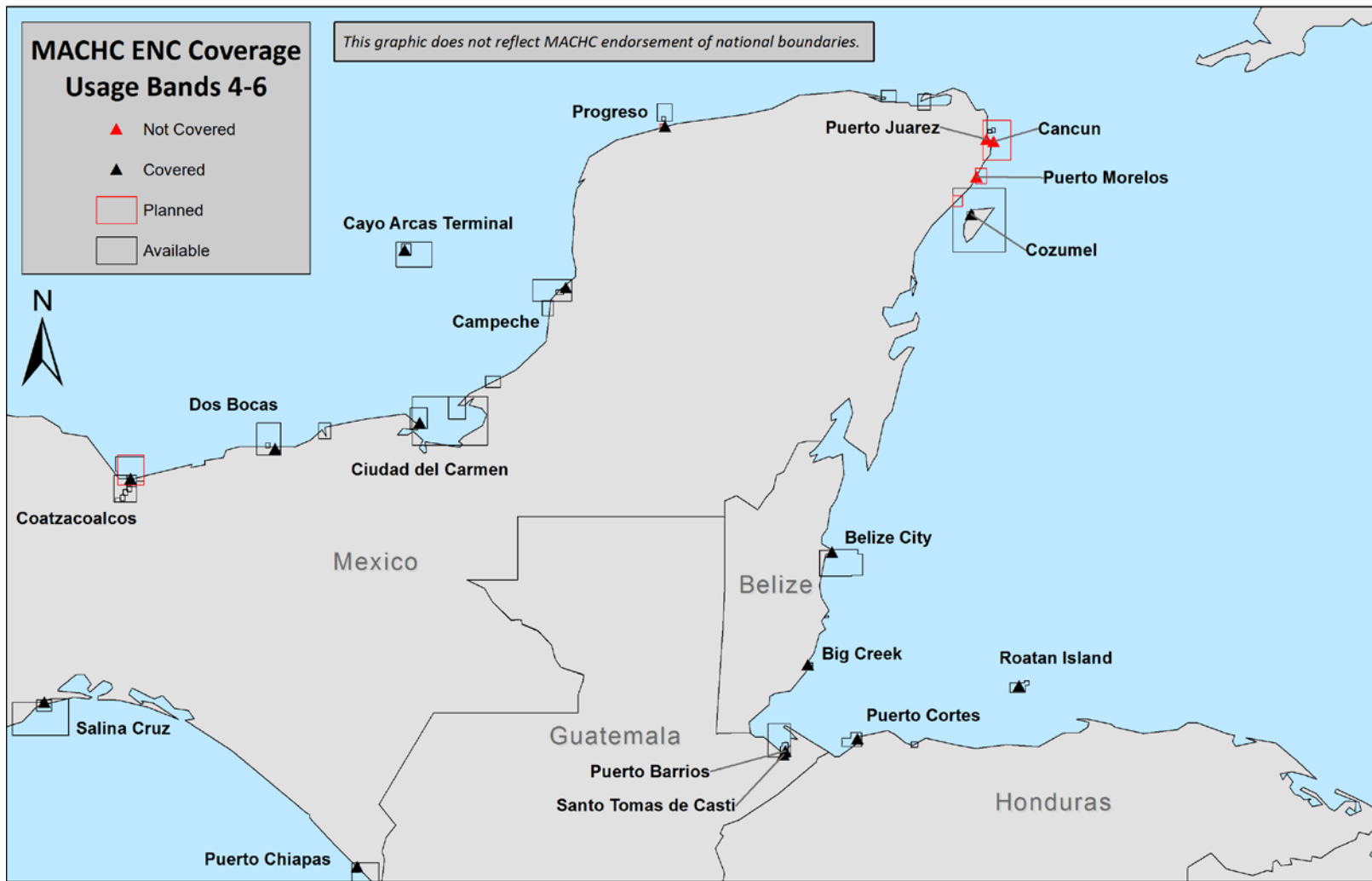
ANNEX A



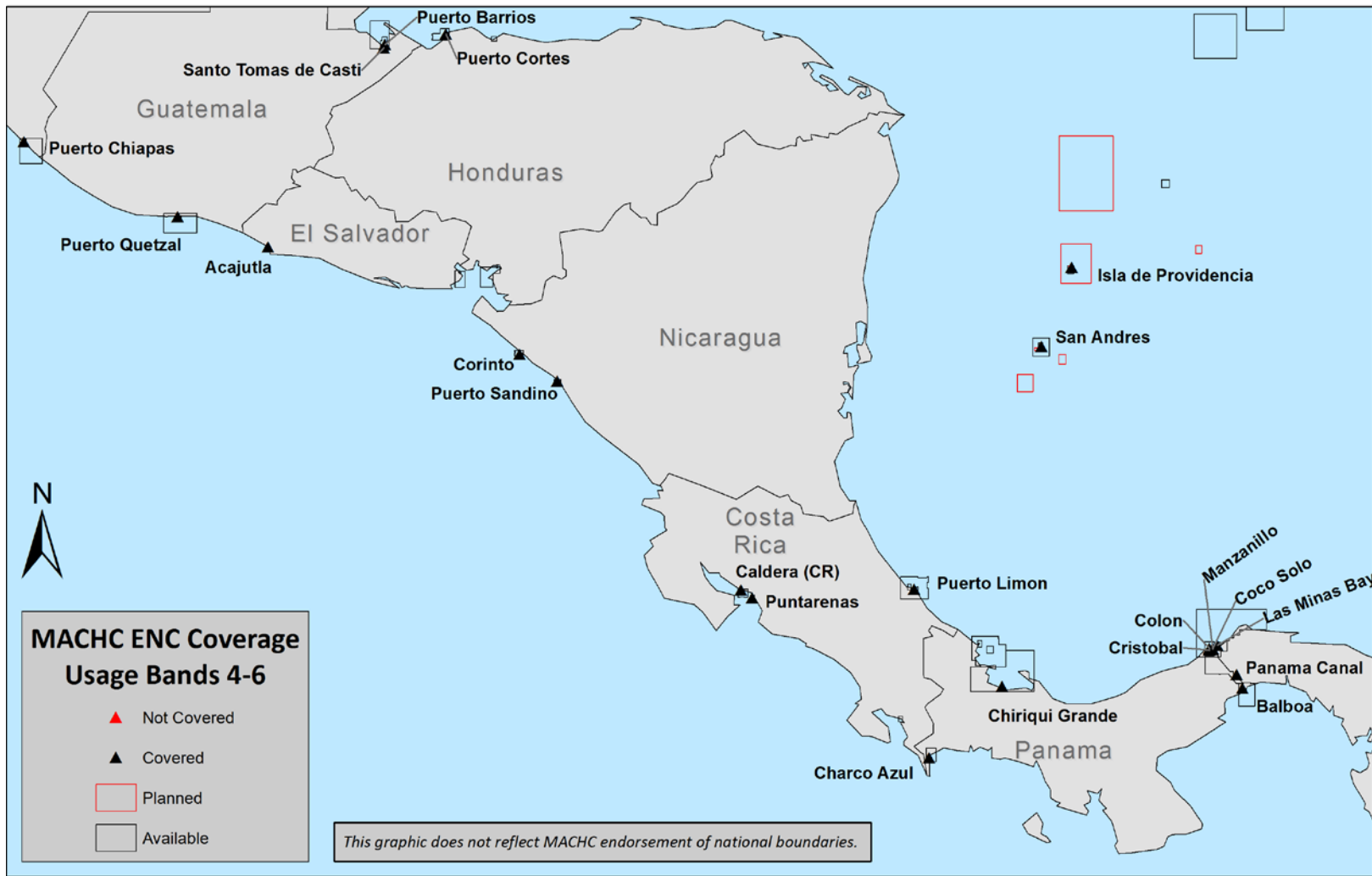
ANNEX A



ANNEX A



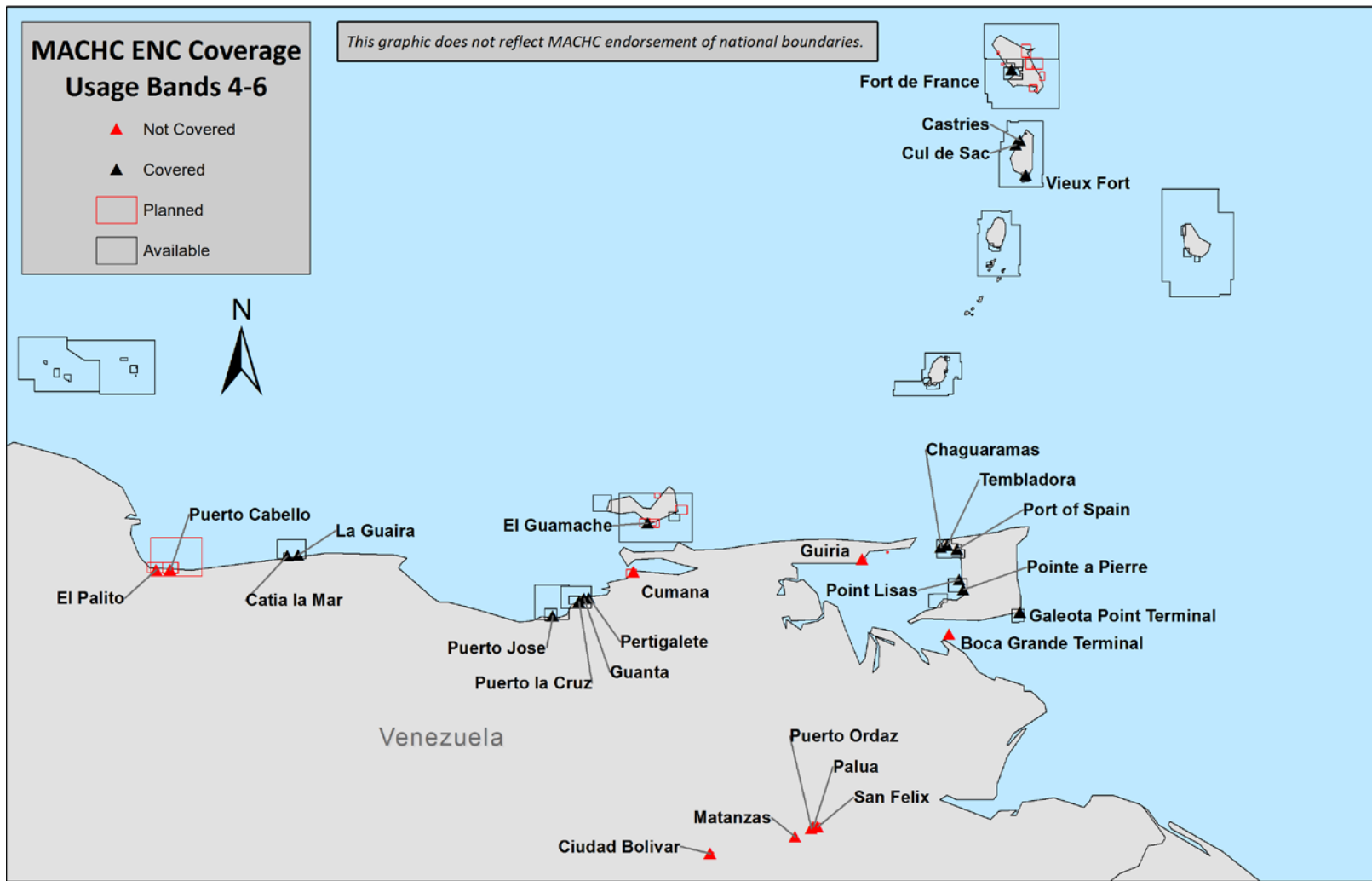
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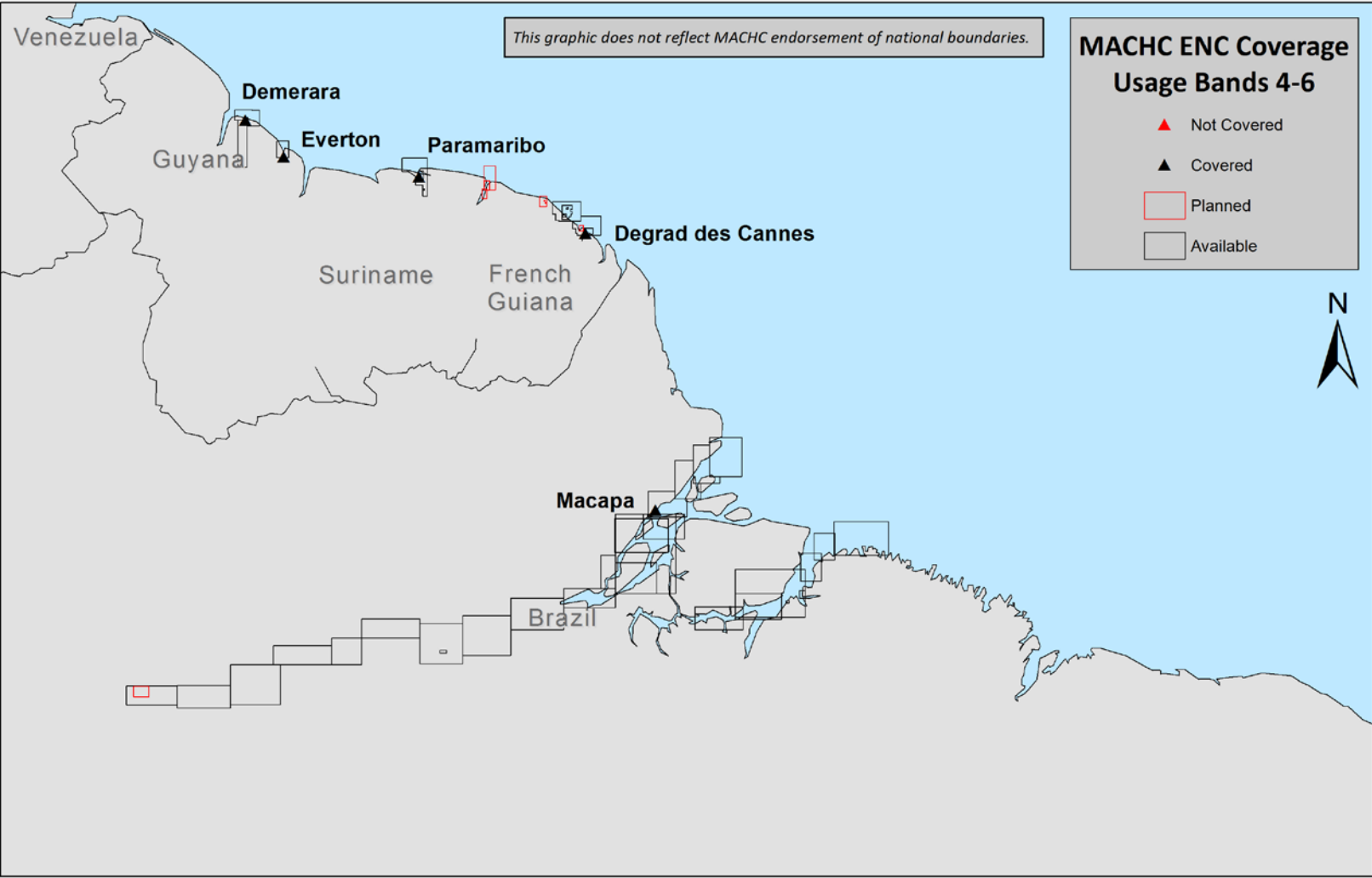
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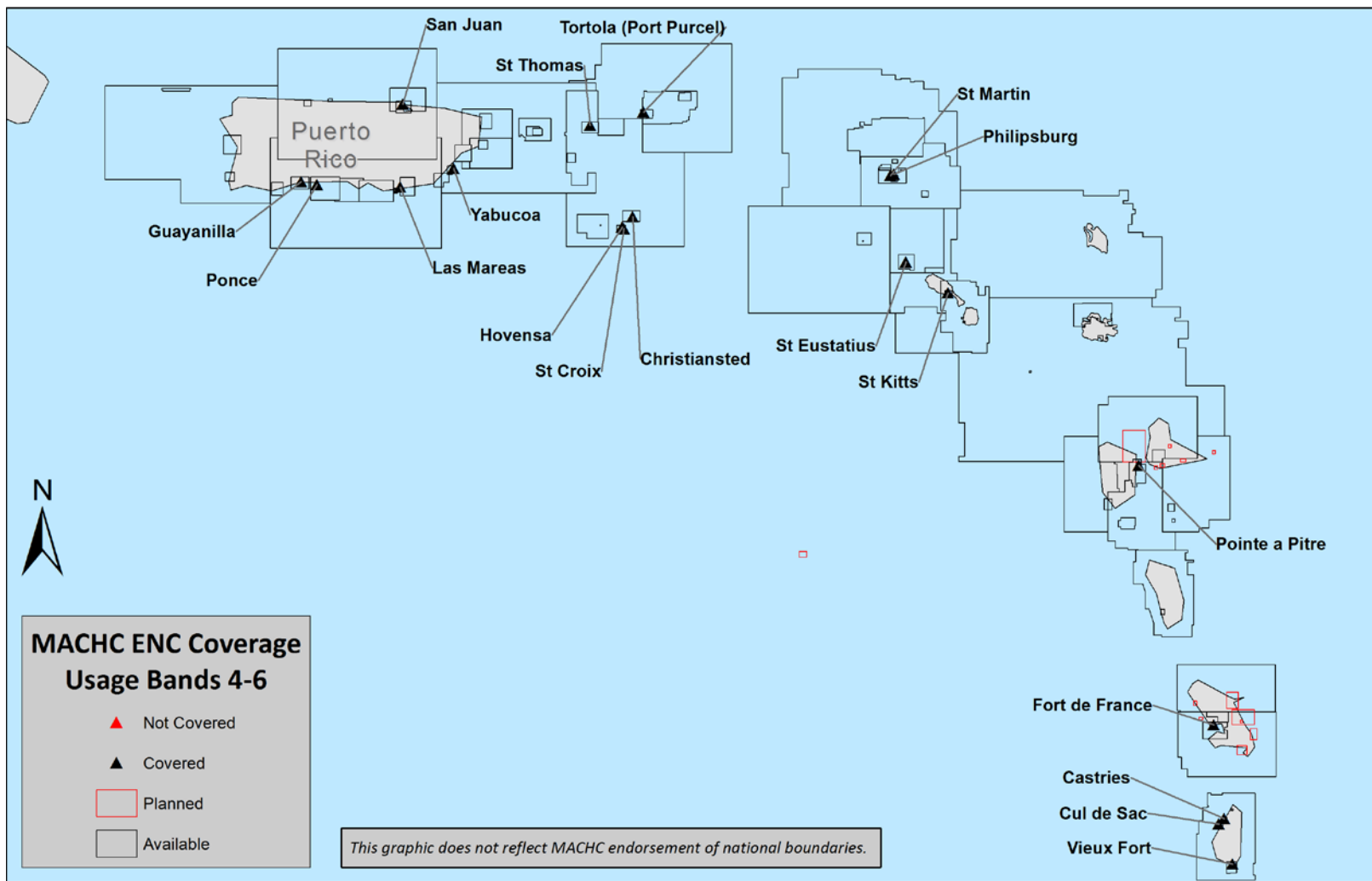
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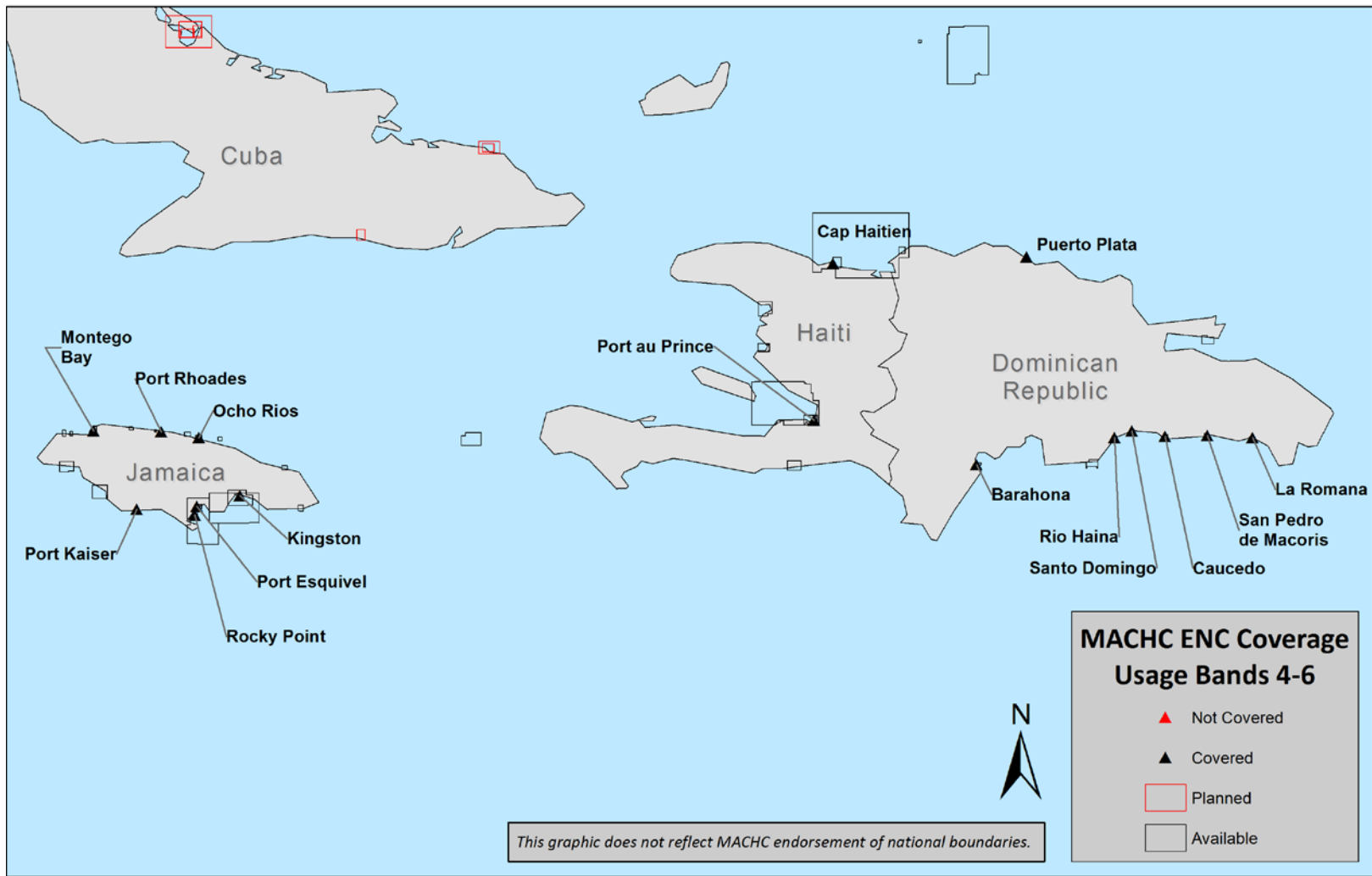
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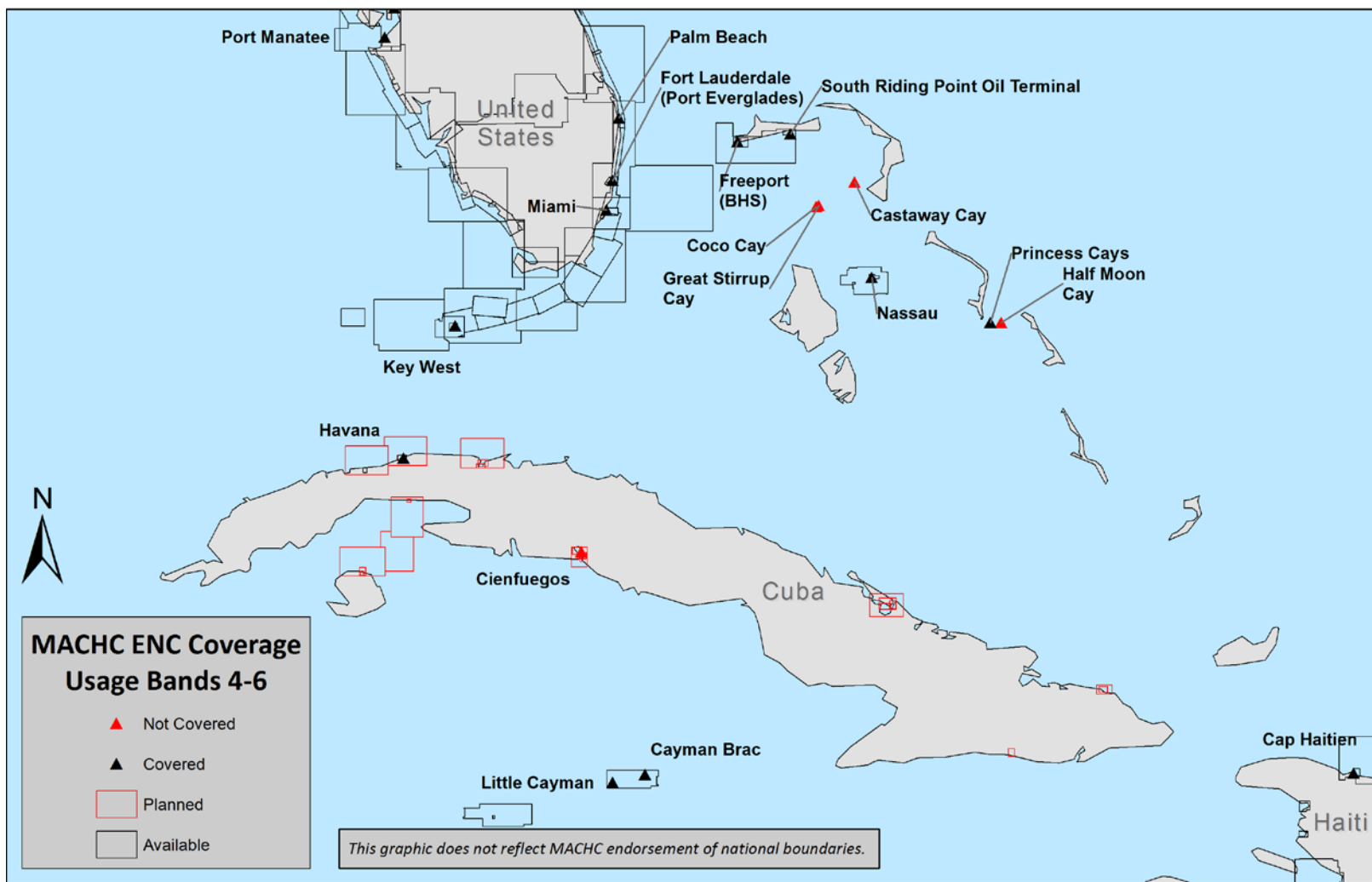
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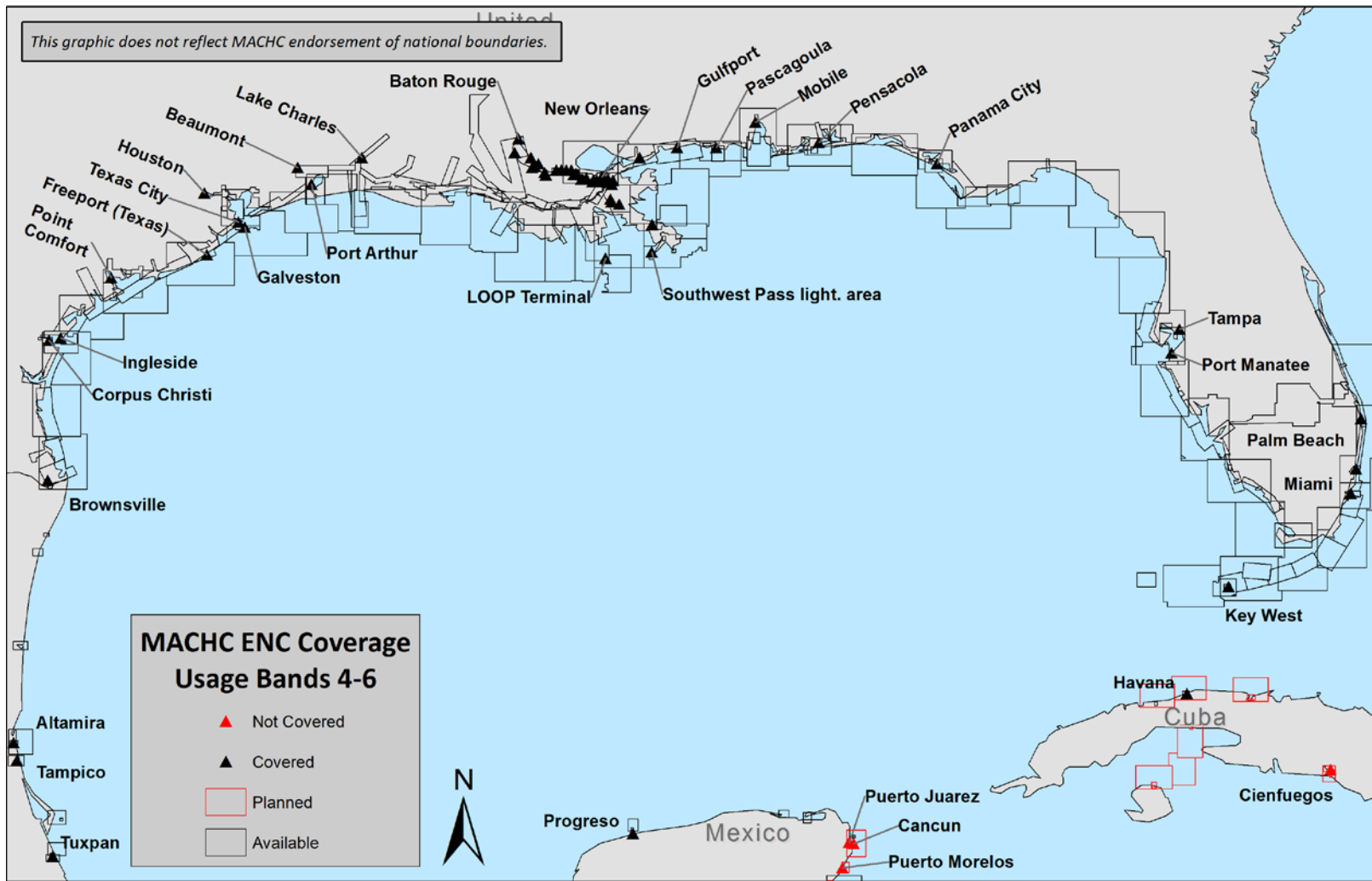
ANNEX A



ANNEX A



ANNEX A



ANNEX A – ENC CELLS USAGE BAND 4 TABLE

Cell Name	Producing Auth	Title	Scale 1:	Status	Distributed by	Coast
BR400011	DHN (BR)	Arquipélago de São Pedro e São Paulo	22000	Available	IC-ENC/PRIMAR	Atlantic
BR400011	DHN (BR)	Arquipélago de São Pedro e São Paulo	22000	Available	IC-ENC/PRIMAR	Atlantic
BR400201	DHN (BR)	Barra Norte do Rio Amazonas	45000	Available	IC-ENC/PRIMAR	Atlantic
BR400202	DHN (BR)	Da Ilha Bailique a Ponta do Capinal	45000	Available	IC-ENC/PRIMAR	Atlantic
BR400203	DHN (BR)	Da Ponta do Capinal às Ilhas Pedreira	45000	Available	IC-ENC/PRIMAR	Atlantic
BR400204	DHN (BR)	Das Ilhas Pedreira à Ilha de Santana	45000	Available	IC-ENC/PRIMAR	Atlantic
BR400242	DHN (BR)	Da Ilha dos Porcos à Ilha de Santana	45000	Available	IC-ENC/PRIMAR	Atlantic
BR400243	DHN (BR)	Da Ilha Ituquara à Ilha dos Porcos	45000	Available	IC-ENC/PRIMAR	Atlantic
BR400244	DHN (BR)	De Gurupá à ilha Ituquara	45000	Available	IC-ENC/PRIMAR	Atlantic
BR400302	DHN (BR)	De Salinópoçis ao Canal do Espadarte (NE)	45000	Available	IC-ENC/PRIMAR	Atlantic
BR400303	DHN (BR)	Do Baixo do Espadarte à Boca do Vigia	45000	Available	IC-ENC/PRIMAR	Atlantic
BR400304	DHN (BR)	De Mosqueiro a Abaetetuba	45000	Available	IC-ENC/PRIMAR	Atlantic
BR400305	DHN (BR)	Da Ilha do Capim à Ilha da Conceição	45000	Available	IC-ENC/PRIMAR	Atlantic
BR400306	DHN (BR)	Da Ilha da Conceição aos Estreitos	45000	Available	IC-ENC/PRIMAR	Atlantic
BR400315	DHN (BR)	Da Boca do Vigia a Mosqueiro	45000	Available	IC-ENC/PRIMAR	Atlantic
BR441011	DHN (BR)	Da Ilha Mangabal à Ilha do Comandaí	45000	Available	IC-ENC/PRIMAR	Atlantic
BR441012	DHN (BR)	Da Ilha dos Porcos à Ilha Gde de Taiacuí	45000	Available	IC-ENC/PRIMAR	Atlantic
BR441021	DHN (BR)	Da Ilha Saporá a Almeirim	45000	Available	IC-ENC/PRIMAR	Atlantic
BR441022	DHN (BR)	De Almeirim a Prainha	45000	Available	IC-ENC/PRIMAR	Atlantic
BR441031	DHN (BR)	Da Ilha do Mouraba a Costa do Ituquí	45000	Available	IC-ENC/PRIMAR	Atlantic
BR441032	DHN (BR)	Da Costa do Ituquí a Ilha do Meio	45000	Available	IC-ENC/PRIMAR	Atlantic
BR441041	DHN (BR)	Da Ilha do Meio a Ilha de Santa Rita	45000	Available	IC-ENC/PRIMAR	Atlantic
BR441042	DHN (BR)	Da Ilha de Santa Rita a Parintins	45000	Available	IC-ENC/PRIMAR	Atlantic
BR441051	DHN (BR)	De Parintins a Costa do Giba	45000	Available	IC-ENC/PRIMAR	Atlantic
BR441052	DHN (BR)	Da Costa do Giba a Itacoatiara	45000	Available	IC-ENC/PRIMAR	Atlantic

Cell Name	Producing Auth	Title	Scale 1:	Status	Distributed by	Coast
BR441061	DHN (BR)	De Itacoatiara à Ilha de Grande Eva	45000	Available	IC-ENC/PRIMAR	Atlantic
BR441062	DHN (BR)	Da Ilha da Grande Eva a Manaus	45000	Available	IC-ENC/PRIMAR	Atlantic
CO400201	CIOH	Isla de San Andrés	22000	Available	IC-ENC	Atlantic
CO400222	CIOH	Aproximación a Puerto López	22000	Dec-14	IC-ENC	Atlantic
CO400244	CIOH	Bahía de Taganga A Ciénaga	22000	Available	IC-ENC	Atlantic
CO400603	CIOH	Aproximación a Bahía Portete	45000	Jul-15	IC-ENC	Atlantic
CO400604	CIOH	Cabo de la Vela	22000	Jul-15	IC-ENC	Atlantic
CO400605	CIOH	Aproximación a Manaure	45000	Jul-15	IC-ENC	Atlantic
CO400606	CIOH	Aproximación a Riohacha	45000	Available	IC-ENC	Atlantic
CO400612	CIOH	Aproximación a Barranquilla	45000	Available	IC-ENC	Atlantic
CO400613	CIOH	Galerazamba A Punta Morro Hermoso	45000	Dec-14	IC-ENC	Atlantic
CO400615	CIOH	Punta Barbacoas A Punta Canoas	45000	Available	IC-ENC	Atlantic
CO400617	CIOH	Punta de Piedra A Punta Comisario	45000	Dec-14	IC-ENC	Atlantic
CO400618	CIOH	Golfo de Morrosquillo	45000	Available	IC-ENC	Atlantic
CO400619	CIOH	Punta de la Cruz A Punta de Piedra	45000	Dec-14	IC-ENC	Atlantic
CO400620	CIOH	Punta Gigantón A Punta Santa Barbara	45000	Dec-14	IC-ENC	Atlantic
CO400623	CIOH	Cabo Tiburón A Punta Caribana	45000	Dec-14	IC-ENC	Atlantic
CO400625	CIOH	Bahía Colombia	22000	Jul-15	IC-ENC	Atlantic
CO400631	CIOH	Banco Quitasueño	45000	Jul-15	IC-ENC	Atlantic
CO400654	CIOH	Aproximación a Providencia	45000	Jun-16	IC-ENC	Atlantic
CO400660	CIOH	Aproximación a Cayos de Serranilla	45000	Available	IC-ENC	Atlantic
CO400662	CIOH	Bajo Alicia	45000	Available	IC-ENC	Atlantic
CU411608	SHGC	De Punta Moruro a Playa Santa Fe	45000	Jul-15	IC-ENC	Atlantic
CU411609	SHGC	De Playa de Santa Fe a Playa Guanabo	45000	Jul-15	IC-ENC	Atlantic
CU411611	SHGC	De Ensenada Puerto Escondido a Playa Kawama	45000	Jul-15	IC-ENC	Atlantic
CU411611	SHGC	Bahía de Matanzas	22000	Jul-15	IC-ENC	Atlantic
CU411771	SHGC	De Punta Gorda al Surgidero de Batabanó	45000	Jul-15	IC-ENC	Atlantic

Cell Name	Producing Auth	Title	Scale 1:	Status	Distributed by	Coast
CU411788	SHGC	Parte Central del Golfo de Batabanó - Al sur del Canal de Moterrey	45000	Jul-15	IC-ENC	Atlantic
CU411789	SHGC	Accesos al Puerto de Nueva Gerona	45000	Jul-15	IC-ENC	Atlantic
CU411861	SHGC	Bahía Nuevitas y sus Accesos	22000	Jul-15	IC-ENC	Atlantic
CU411886	SHGC	Bahía de Cayo Moa	22000	Jul-15	IC-ENC	Atlantic
CU411940	SHGC	Bahía de Cienfuegos y sus Accesos	22000	Jul-15	IC-ENC	Atlantic
FR452020	SHOM	La Martinique - Northern part	59923	Available	PRIMAR	Atlantic
FR453010	SHOM	Approaches to Pointe-à-Pitre - Les Saintes	60055	Available	PRIMAR	Atlantic
FR453020	SHOM	Guadeloupe Marie-Galante to La Désirade	60016	Available	PRIMAR	Atlantic
FR458840	SHOM	Rivière de Sinnamary	30000	Dec-17	PRIMAR	Atlantic
FR467380	SHOM	La Martinique - Southern Part	60002	Available	PRIMAR	Atlantic
FR473020	SHOM	Guadeloupe Pointe des Châteaux to Ilet à Kahouanne	59913	Available	PRIMAR	Atlantic
FR473760	SHOM	Embouchure du fleuve Maroni	60000	Dec-17	PRIMAR	Atlantic
FR473790	SHOM	Approaches to Cayenne	45000	Available	PRIMAR	Atlantic
FR473800	SHOM	Outer approaches to Kourou	49999	Available	PRIMAR	Atlantic
FR474710	SHOM	Petites Antilles - Saint-Martin to Saint-Barthélemy	45000	Available	PRIMAR	Atlantic
FR474820	SHOM	Guadeloupe - Pointe Gros Morne to Basse-Terre	45000	Available	PRIMAR	Atlantic
GB400457	UKHO	Jamaica - South Coast - Portland Bight	22000	Available	IC-ENC	Atlantic
GB400489	UKHO	Approaches to Nevis	45000	Available	IC-ENC	Atlantic
GB400513	UKHO	Central America - East Coast - Honduras - Tela	22000	Available	IC-ENC	Atlantic
GB400519	UKHO	Demerara River - Georgetown to Linden	45000	Available	IC-ENC	Atlantic
GB400522	UKHO	Central America - East Coast - Belize - Belize City and Approaches	22000	Available	IC-ENC	Atlantic
GB400533	UKHO	Georgetown and Mouths of Demerara and Essequibo Rivers	45000	Available	IC-ENC	Atlantic
GB400584	UKHO	West Indies - Saint Christopher to Barbuda	90000	Available	IC-ENC	Atlantic
GB400585	UKHO	Montserrat and Antigua	90000	Available	IC-ENC	Atlantic
GB400791	UKHO	Saint Vincent to Bequia	45000	Available	IC-ENC	Atlantic

Cell Name	Producing Auth	Title	Scale 1:	Status	Distributed by	Coast
GB400797	UKHO	West Indies - Grenada	45000	Available	IC-ENC	Atlantic
GB401273	UKHO	West Indies - Saint Lucia	45000	Available	IC-ENC	Atlantic
GB401441	UKHO	Turks Islands	45000	Available	IC-ENC	Atlantic
GB401798	UKHO	Central America - East Coast - Costa Rica - Approaches to Puerto Limon and Bahia de Moin	45000	Available	IC-ENC	Atlantic
GB401931	UKHO	Central America - Costa Rica - West Coast - Puntarenas	22000	Available	IC-ENC	Pacific
GB401940	UKHO	Outer Approaches to Salina Cruz	45000	Available	IC-ENC	Pacific
GB401946	UKHO	Central America - Pacific Coast - Guatemala - Approaches to Quetzal	45000	Available	IC-ENC	Pacific
GB401969	UKHO	Puerto Sandino	22000	Available	IC-ENC	Pacific
GB402006	UKHO	West Indies - Virgin Islands - Anegada to Hans Lolik Island	90000	Available	IC-ENC	Atlantic
GB402019	UKHO	North Sound to Road Harbour	22000	Available	IC-ENC	Atlantic
GB402047	UKHO	Approaches to Anguilla	45000	Available	IC-ENC	Atlantic
GB402485	UKHO	West Indies - Windward Islands - Approaches to Barbados	90000	Available	IC-ENC	Atlantic
GB40258A	UKHO	West Indies - Jamaica - Black River Anchorage	45000	Available	IC-ENC	Atlantic
GB40258B	UKHO	West Indies - Jamaica - Savanna La Mar	22000	Available	IC-ENC	Atlantic
GB402784	UKHO	Entrance to the Berbice River including New Amsterdam Harbour	45000	Available	IC-ENC	Atlantic
GB40372D	UKHO	Mexico - East Coast - Approaches to Coatzacoalcos and Pajaritos	45000	Available	IC-ENC	Atlantic
GB40462A	UKHO	Lesser Caymans	45000	Available	IC-ENC	Atlantic
GB40462B	UKHO	West Indies - Grand Cayman	45000	Available	IC-ENC	Atlantic
GB40463A	UKHO	West Indies - Dominican Republic - Bahia de Monte Cristi	22000	Available	IC-ENC	Atlantic
GB40463B	UKHO	West Indies - Dominican	22000	Available	IC-ENC	Atlantic
GB40471B	UKHO	West Indies - Dominican Republic - South Coast - Puerto Palenque	45000	Available	IC-ENC	Atlantic

Cell Name	Producing Auth	Title	Scale 1:	Status	Distributed by	Coast
GB40475A	UKHO	Lisas Point to Pointe-a-Pierre	22000	Available	IC-ENC	Atlantic
GB40475B	UKHO	Approaches to Port Fortin and Brighton	22000	Available	IC-ENC	Atlantic
GB40501A	UKHO	West Indies - Trinidad - Galeota Point	22000	Available	IC-ENC	Atlantic
GB40583A	UKHO	West Indies - Sombrero Island to Saint Christopher (Saint Kitts)	90000	Available	IC-ENC	Atlantic
GB41961B	UKHO	El Salvador - Approaches to La Union	22000	Available	IC-ENC	Pacific
GB41961D	UKHO	Honduras - Golfo de Fonseca - Approaches to Henecan	45000	Available	IC-ENC	Pacific
GB42493B	UKHO	Puerto Golfito	22000	Available	IC-ENC	Atlantic
GB42493C	UKHO	Puerto Armuelles including Bahia Azul Petroleum Terminal (Charco Azul)	22000	Available	IC-ENC	Atlantic
GB42988A	UKHO	Guatemala East Coast Approaches To Puerto Barrios And Santo Tomas De Castilla	45000	Available	IC-ENC	Atlantic
GB42988C	UKHO	Honduras - North Coast Approaches to Puerto Cortes	22000	Available	IC-ENC	Atlantic
GB48004A	UKHO	Port of Spain and Approaches	22000	Available	IC-ENC	Atlantic
GB48044A	UKHO	Dominica	45000	Available	IC-ENC	Atlantic
GB48102A	UKHO	West Indies - Jamaica - South Coast - Approaches to Kingston Harbour	22000	Available	IC-ENC	Atlantic
GB48301B	UKHO	Approaches to Freeport	45000	Available	IC-ENC	Atlantic
GB48302A	UKHO	New Providence Island	45000	Available	IC-ENC	Atlantic
GB489100	UKHO	Bahia Almirante	45000	Available	IC-ENC	Atlantic
GB489101	UKHO	Laguna de ChiriQui	45000	Available	IC-ENC	Atlantic
MX401115	SEMAR	Bahia de Todos Santos B.C.	45000	Available	IC-ENC/PRIMAR	Pacific
MX401413	SEMAR	Laguna Ojo de Liebre B.C.	45000	Available	IC-ENC/PRIMAR	Pacific
MX401424	SEMAR	Isla Cedros (Punta Sur)	22000	Available	IC-ENC	Pacific
MX402112	SEMAR	Bahía San Felipe a Punta Diggs B.C.	22000	Available	IC-ENC	Atlantic
MX402321	SEMAR	Bahía Santa Ines	22000	Available	IC-ENC	Pacific
MX402331	SEMAR	Bacochibampo Son	22000	Available	IC-ENC	Pacific
MX402333	SEMAR	Guaymas y Proximidades	22000	Available	IC-ENC	Pacific

Cell Name	Producing Auth	Title	Scale 1:	Status	Distributed by	Coast
MX402335	SEMAR	Bahia Guasimas y Proximidades	22000	Available	IC-ENC	Pacific
MX403231	SEMAR	La Paz y Proximidades	22000	Available	IC-ENC	Pacific
MX403331	SEMAR	Bahía de Topolobampo y Proximidades	22000	Available	IC-ENC	Pacific
MX403521	SEMAR	Bahia San Lucas, BC.S.	22000	Available	IC-ENC	Pacific
MX403522	SEMAR	San José del Cabo	22000	Available	IC-ENC	Pacific
MX404032	SEMAR	Isla Socorro	22000	Available	IC-ENC	Pacific
MX405112	SEMAR	Bahias de Manzanillo y Santiago	22000	Available	IC-ENC	Pacific
MX405212	SEMAR	Ixtapa-Zihuatanejo	22000	Available	IC-ENC	Pacific
MX405232	SEMAR	Acapulco y Proximidades	22000	Available	IC-ENC	Pacific
MX406124	SEMAR	Corralero, Oaxaca	22000	Available	IC-ENC	Pacific
MX406222	SEMAR	Bahias de Huatulco y Proximidades	22000	Available	IC-ENC	Pacific
MX406344	SEMAR	Puerto Chiapas a Boca del Rio Suchiate	22000	Available	IC-ENC/PRIMAR	Pacific
MX407131	SEMAR	La Pesca Tamaulipas	22000	Available	IC-ENC	Atlantic
MX407221	SEMAR	Altamira y Proximidades	45000	Available	IC-ENC	Atlantic
MX407223	SEMAR	Rio Panuco - Puerto Madero	22000	Available	IC-ENC	Atlantic
MX408112	SEMAR	Cabo Rojo	22000	Available	IC-ENC	Atlantic
MX408121	SEMAR	Barra de Galindo - Ver	22000	Available	IC-ENC	Atlantic
MX408212	SEMAR	Veracruz a Puerto de Alvarado	45000	Available	IC-ENC	Atlantic
MX408213	SEMAR	Veracruz y Proximidades	22000	Available	IC-ENC	Atlantic
MX408215	SEMAR	Fondeadero Anton Lizardo	22000	Available	IC-ENC	Atlantic
MX408311	SEMAR	Minatitlan a Coatzacoalcos	22000	Available	IC-ENC	Atlantic
MX408314	SEMAR	Coatzacoalcos y Proximidades	22000	Jul-15	IC-ENC	Atlantic
MX408323	SEMAR	Dos Bocas Y Proximidades	22000	Available	IC-ENC	Atlantic
MX408421	SEMAR	Laguna de Terminos	45000	Available	IC-ENC	Atlantic
MX408422	SEMAR	Laguna de Términos Entrada Oeste	22000	Jul-15	IC-ENC	Atlantic
MX408423	SEMAR	Laguna de Términos Entrada Este	22000	Jul-15	IC-ENC	Atlantic
MX408522	SEMAR	Cayo Arcas y Proximidades	22000	Available	IC-ENC	Atlantic

Cell Name	Producing Auth	Title	Scale 1:	Status	Distributed by	Coast
MX408532	SEMAR	Lerma-Campeche	22000	Available	IC-ENC	Atlantic
MX409124	SEMAR	Terminal Remota Progreso y Proximidades	22000	Available	IC-ENC	Atlantic
MX409221	SEMAR	Isla Mujeres, Cancun y Proximidades	22000	Jul-15	IC-ENC	Atlantic
MX409224	SEMAR	Isla Cozumel, Q. Roo.	45000	Available	IC-ENC	Atlantic
NL402020	NLHO	Sababank	90000	Available	IC-ENC	Atlantic
NL402110	NLHO	Sint Eustatius Approach	90000	Available	IC-ENC	Atlantic
NL402211	NLHO	Aruba	45000	Available	IC-ENC	Atlantic
NL402212	NLHO	Bonaire	45000	Available	IC-ENC	Atlantic
NL402213	NLHO	Curacao	45000	Available	IC-ENC	Atlantic
SR402218	NLHO	Suriname Rivier	45000	Available	IC-ENC	Atlantic
US409860	NGA	Approach to Panama Canal – North	75000	Available	NOAA	Atlantic
US410880	NGA	Approach to Port-Au-Prince	50000	Available	NOAA	Atlantic
US410930	NGA	Approaches to Cap-Haitien and Bahia de Monte Cristi	75000	Available	NOAA	Atlantic
US4AL11M	NOAA	Mobile Bay	80000	Available	NOAA	Atlantic
US4AL12M	NOAA	Perdido Bay and Escambia Bay	80000	Available	NOAA	Atlantic
US4CA74M	NOAA	Approaches to San Diego Bay	100000	Available	NOAA	Pacific
US4FL10M	NOAA	Tampa Bay and St. Joseph Sound	80000	Available	NOAA	Atlantic
US4FL12M	NOAA	Safety Harbor	80000	Available	NOAA	Atlantic
US4FL13M	NOAA	Anclote Keys To Crystal River	80000	Available	NOAA	Atlantic
US4FL14M	NOAA	Crystal River to Horseshoe Point	80000	Available	NOAA	Atlantic
US4FL15M	NOAA	Horseshoe Point to Rock Islands	80000	Available	NOAA	Atlantic
US4FL18M	NOAA	Lemon Bay to Passage Key Inlet	80000	Available	NOAA	Atlantic
US4FL20M	NOAA	Fowey Rocks to Alligator Reef	80000	Available	NOAA	Atlantic
US4FL23M	NOAA	Straits of Florida Fowey Rocks, Hillsboro Inlet to Bimini Islands, Bahamas	100000	Available	NOAA	Atlantic
US4FL26M	NOAA	Intracoastal Waterway Alligator Reef to Sombrero Key	80000	Available	NOAA	Atlantic
US4FL27M	NOAA	Miami to Marathon and Florida Bay	80000	Available	NOAA	Atlantic

Cell Name	Producing Auth	Title	Scale 1:	Status	Distributed by	Coast
US4FL31M	NOAA	Jupiter Inlet to Golden Beach; Lake Worth Inlet	80000	Available	NOAA	Atlantic
US4FL34M	NOAA	Golden Beach to Fowey Rocks	80000	Available	NOAA	Atlantic
US4FL40M	NOAA	Estero Bay to Lemon Bay	80000	Available	NOAA	Atlantic
US4FL43M	NOAA	Lake Okeechobee	80000	Available	NOAA	Atlantic
US4FL44M	NOAA	Chatham River to Clam Pass	80000	Available	NOAA	Atlantic
US4FL46M	NOAA	East Cape to Mormon Key	80000	Available	NOAA	Atlantic
US4FL60M	NOAA	St Joseph and St Andrew Bays	80000	Available	NOAA	Atlantic
US4FL62M	NOAA	East Bay Extension	80000	Available	NOAA	Atlantic
US4FL68M	NOAA	Apalachicola Bay to Cape San Blas	80000	Available	NOAA	Atlantic
US4FL69M	NOAA	Apalachee Bay	80000	Available	NOAA	Atlantic
US4FL71M	NOAA	Pensacola Bay And Approaches	80000	Available	NOAA	Atlantic
US4FL74M	NOAA	Choctawhatchee Bay	80000	Available	NOAA	Atlantic
US4FL89M	NOAA	Bethel Shoal to Jupiter Inlet	80000	Available	NOAA	Atlantic
US4FL92M	NOAA	Sand Key to Rebecca Shoal	80000	Available	NOAA	Atlantic
US4FL97M	NOAA	Florida Keys Sombrero Key to Sand Key	80000	Available	NOAA	Atlantic
US4LA10M	NOAA	Calcasieu Pass to Sabine Pass	80000	Available	NOAA	Atlantic
US4LA12M	NOAA	Mermantau River	80000	Available	NOAA	Atlantic
US4LA13M	NOAA	Bayou Teche and Vermilion River	80000	Available	NOAA	Atlantic
US4LA14M	NOAA	Rollover Bayou to Calcasieu Pass	80000	Available	NOAA	Atlantic
US4LA15M	NOAA	Vermilion Bay and approaches	80000	Available	NOAA	Atlantic
US4LA20M	NOAA	Atchafalaya river; Atchafalaya Bay to Morgan City	80000	Available	NOAA	Atlantic
US4LA21M	NOAA	Point Au Fer To Marsh Island	80000	Available	NOAA	Atlantic
US4LA22M	NOAA	Intracoastal Waterway Morgan City to Port Allen, including the Atchafalaya River	80000	Available	NOAA	Atlantic
US4LA25M	NOAA	Isles Dernieres to Point au Fer	80000	Available	NOAA	Atlantic
US4LA29M	NOAA	Timbalier Bay	80000	Available	NOAA	Atlantic
US4LA30M	NOAA	Mississippi River Delta	80000	Available	NOAA	Atlantic

Cell Name	Producing Auth	Title	Scale 1:	Status	Distributed by	Coast
US4LA31M	NOAA	Timbalier and Terrebonne Bays	80000	Available	NOAA	Atlantic
US4LA32M	NOAA	Barataria Bay And Approaches	80000	Available	NOAA	Atlantic
US4LA33M	NOAA	Mississippi River Delta	80000	Available	NOAA	Atlantic
US4LA34M	NOAA	Chandeleur And Breton Sounds	80000	Available	NOAA	Atlantic
US4LA35M	NOAA	Mississippi River Venice To New Orleans	80000	Available	NOAA	Atlantic
US4LA39M	NOAA	Lakes Pontchartrain and Maurepas	80000	Available	NOAA	Atlantic
US4MS10M	NOAA	Lake Borgne and Approaches	80000	Available	NOAA	Atlantic
US4MS12M	NOAA	Mississippi Sound and Approaches	80000	Available	NOAA	Atlantic
US4PR11M	NOAA	Virgin Islands Virgin Gorda To St Thomas And St Croix	100000	Available	NOAA	Atlantic
US4PR30M	NOAA	Virgin Passage and Sonda de Vieques	100000	Available	NOAA	Atlantic
US4PR31M	NOAA	Punta Penon To Punta Vacia Talega	100000	Available	NOAA	Atlantic
US4PR41M	NOAA	Guanica Light To Punta Tuna Light	100000	Available	NOAA	Atlantic
US4PR60M	NOAA	West Coast of Puerto Rico	100000	Available	NOAA	Atlantic
US4TX11M	NOAA	Southern Part Of Laguna Madre	80000	Available	NOAA	Atlantic
US4TX15M	NOAA	Northern part of Laguna Madre	80000	Available	NOAA	Atlantic
US4TX21M	NOAA	Aransas Pass To Baffin Bay	80000	Available	NOAA	Atlantic
US4TX28M	NOAA	Matagorda Light to Aransas Pass	80000	Available	NOAA	Atlantic
US4TX31M	NOAA	Matagorda Bay And Approaches	80000	Available	NOAA	Atlantic
US4TX41M	NOAA	SAN LUIS PASS TO EAST MATAGORDA BAY	80000	Available	NOAA	Atlantic
US4TX52M	NOAA	Approaches To Galveston Bay	80000	Available	NOAA	Atlantic
US4TX58M	NOAA	Galveston Bay	80000	Available	NOAA	Atlantic
US4TX71M	NOAA	Sabine Bank	80000	Available	NOAA	Atlantic
VE400102	DHN	Aproximacion a Bahia de Las Piedras	22000	Available	IC-ENC	Atlantic
VE400201	DHN	Aproximacion a Muaco	22000	Jul-15	IC-ENC	Atlantic
VE400303	DHN	Aproximacion a Puerto Cabello	25000	Jul-15	IC-ENC	Atlantic
VE400304	DHN	Punta Moron a Ensenada de Cata	50000	Jul-15	IC-ENC	Atlantic
VE400305	DHN	Aproximacion al Puerto de la Guaira	25000	Available	IC-ENC	Atlantic

Cell Name	Producing Auth	Title	Scale 1:	Status	Distributed by	Coast
VE400402	DHN	Robledal	25000	Available	IC-ENC	Atlantic
VE400408	DHN	Aproximacion a Puerto la Cruz	22000	Available	IC-ENC	Atlantic
VE400410	DHN	Aproximacion al Criojenico de Jose	22000	Available	IC-ENC	Atlantic
VE400505	DHN	Canal de Margarita	80000	Available	IC-ENC	Atlantic
VE400512	DHN	Aproximacion Planta de Distribucion el Guamache	12500	Jul-15	IC-ENC	Atlantic
VE401002	DHN	Canal de Maracaibo (Boya EM to Isla Zapara)	50000	Jul-15	IC-ENC	Atlantic
VE401003	DHN	Canal de Maracaibo (Isla Zapara to Maracaibo)	22000	Jul-15	IC-ENC	Atlantic
VE401004	DHN	Canal de Maracaibo (Maracaibo to La Salina)	50000	Jul-15	IC-ENC	Atlantic

ANNEX A – ENC CELLS USAGE BAND 5 TABLE

Cell Name	Producing Auth	Title	Scale 1:	Status	Distributed by	Coast
BR500206	DHN (BR)	Porto de Santana	12000	Available	IC-ENC/PRIMAR	Atlantic
BR500320	DHN (BR)	Porto de Belém	12000	Available	IC-ENC/PRIMAR	Atlantic
BR500321	DHN (BR)	Porto de Vila do Conde	12000	Available	IC-ENC/PRIMAR	Atlantic
BR504110	DHN (BR)	Porto de Manaus	12000	Dec-14	IC-ENC/PRIMAR	Atlantic
BR541031	DHN (BR)	Santarém	12000	Available	IC-ENC/PRIMAR	Atlantic
CO500200	CIOH	Puerto de San Andrés	4000	Available	IC-ENC	Atlantic
CO500202	CIOH	Rada El Cove	4000	Dec-15	IC-ENC	Atlantic
CO500203	CIOH	Albuquerque	12000	Dec-15	IC-ENC	Atlantic
CO500204	CIOH	Cayos del Este Sudeste (Courtown Cays)	12000	Dec-15	IC-ENC	Atlantic
CO500211	CIOH	Roncador (Cayo Roncador)	12000	Dec-15	IC-ENC	Atlantic
CO500213	CIOH	Serrana (Cayo Serrana)	12000	Available	IC-ENC	Atlantic
CO500218	CIOH	Isla de Providencia	12000	Available	IC-ENC	Atlantic
CO500227	CIOH	Bahía Honda	12000	Dec-15	IC-ENC	Atlantic
CO500229	CIOH	Bahía Portete	12000	Available	IC-ENC	Atlantic
CO500237	CIOH	Riohacha	12000	Dec-15	IC-ENC	Atlantic
CO500242	CIOH	Isla Aguja A Punta Cinto	8000	Dec-16	IC-ENC	Atlantic
CO500253	CIOH	Río Magdalena (Bocas de Ceniza – Puente Laureano)	12000	Available	IC-ENC	Atlantic
CO500254	CIOH	Río Magdalena (Puente Laureano – Puerto Pimsa)	12000	Dec-15	IC-ENC	Atlantic
CO500261	CIOH	Bahía de Cartagena	12000	Available	IC-ENC	Atlantic
CO500267	CIOH	Isla Fuerte	12000	Dec-14	IC-ENC	Atlantic
CO500804	CIOH	Bahía de Santa Marta	8000	Available	IC-ENC	Atlantic
CO500848	CIOH	Santiago de Tolú	8000	Dec-15	IC-ENC	Atlantic
CU511825	SHGC	Bahía del Mariel	4000	Available	IC-ENC	Atlantic
CU511830	SHGC	Bahía de La Habana y sus Accesos	8000	Dec-15	IC-ENC	Atlantic
CU511830	SHGC	Puerto de La Habana	4000	Dec-15	IC-ENC	Atlantic

Cell Name	Producing Auth	Title	Scale 1:	Status	Distributed by	Coast
CU511835	SHGC	Bahía de Matanzas	8000	Dec-15	IC-ENC	Atlantic
CU511860	SHGC	Puerto de Nuevitas y sus Accesos	12000	Dec-15	IC-ENC	Atlantic
CU511860	SHGC	Puerto de Nuevitas	8000	Dec-15	IC-ENC	Atlantic
CU511860	SHGC	Canal de Entrada a la Bahía de Nuevitas	8000	Dec-15	IC-ENC	Atlantic
CU511885	SHGC	Bahía de Cayo Moa	8000	Dec-15	IC-ENC	Atlantic
CU511905	SHGC	Bahía de Santiago de Cuba	8000	Dec-15	IC-ENC	Atlantic
CU511938	SHGC	Zona Sur de la Bahía de Cienfuegos	8000	Dec-15	IC-ENC	Atlantic
CU511938	SHGC	Zona Norte de la Bahía de Cienfuegos - De Jagua	8000	Dec-15	IC-ENC	Atlantic
CU511938	SHGC	Canal de Entrada a la Bahía de Cienfuegos	8000	Dec-15	IC-ENC	Atlantic
CU511955	SHGC	Surgidero de Batabanó	4000	Dec-15	IC-ENC	Atlantic
CU511967	SHGC	Puerto de Nueva Gerona y sus Accesos	8000	Dec-15	IC-ENC	Atlantic
CU511967	SHGC	Puerto de Nueva Gerona Rio las Casas	4000	Dec-15	IC-ENC	Atlantic
FR531270	SHOM	Approaches to Basse-Terre	12404	Available	PRIMAR	Atlantic
FR553010	SHOM	Guadeloupe Abords de Pointe-à-Pitre	15000	Available	PRIMAR	Atlantic
FR55884A	SHOM	Rivière de Sinnamary - De l'îlot Brigandin à la roche Petite Pauline	12500	Dec-17	PRIMAR	Atlantic
FR55884B	SHOM	Rivière de Sinnamary - De la roche Severs au bourg de Sinnamary	12500	Dec-17	PRIMAR	Atlantic
FR568920	SHOM	Baie de Fort-de-France	15000	Available	PRIMAR	Atlantic
FR56948A	SHOM	Marie-Galante - Baie de Saint-Louis	19999	Available	PRIMAR	Atlantic
FR570870	SHOM	Havre de la Trinité et Baie du Galion	15000	Dec-17	PRIMAR	Atlantic
FR570880	SHOM	Havre du Robert et Baie du François	20000	Dec-17	PRIMAR	Atlantic
FR57089A	SHOM	Saint-Pierre	15000	Dec-17	PRIMAR	Atlantic
FR57089B	SHOM	Case-Pilote	15000	Dec-17	PRIMAR	Atlantic
FR57089C	SHOM	Cul-de-Sac du Marin	15000	Dec-17	PRIMAR	Atlantic
FR57089D	SHOM	Baie du Vauclin	15000	Dec-17	PRIMAR	Atlantic
FR571010	SHOM	Les Saintes	15000	Available	PRIMAR	Atlantic

Cell Name	Producing Auth	Title	Scale 1:	Status	Distributed by	Coast
FR57102A	SHOM	Le Moule	10000	Dec-17	PRIMAR	Atlantic
FR57102B	SHOM	Petit Havre	10000	Dec-17	PRIMAR	Atlantic
FR57102C	SHOM	Sainte-Anne et anse Accul	10000	Dec-17	PRIMAR	Atlantic
FR57102D	SHOM	Saint-François	10000	Dec-17	PRIMAR	Atlantic
FR57102E	SHOM	Grande Anse	10000	Dec-17	PRIMAR	Atlantic
FR57102F	SHOM	Marie-Galante - Grand-Bourg	10000	Available	PRIMAR	Atlantic
FR573240	SHOM	Grand Cul-de-Sac Marin - De la Baie du Lamentin à Port-Louis	20000	Dec-17	PRIMAR	Atlantic
FR57376A	SHOM	A - Fleuve Maroni de l'embouchure aux îles Arouaba	25000	Dec-17	PRIMAR	Atlantic
FR57376B	SHOM	B - Fleuve Maroni des îles Arouaba à Saint-Laurent-du-Maroni	25000	Dec-17	PRIMAR	Atlantic
FR573770	SHOM	Ports du Larivot et de Cayenne	10000	Dec-17	PRIMAR	Atlantic
FR573780	SHOM	Approaches to Dégrad des Cannes	15000	Available	PRIMAR	Atlantic
FR57472E	SHOM	Petites Antilles - Saint-Barthélemy: Gustavia harbour	12000	Available	PRIMAR	Atlantic
FR574810	SHOM	Approaches to Kourou	25000	Available	PRIMAR	Atlantic
GB500197	UKHO	Rodney Bay Lagoon	4000	Available	IC-ENC	Atlantic
GB500258	UKHO	Port Kaiser	12000	Available	IC-ENC	Atlantic
GB500398	UKHO	Freeport Roads and Harbour	22000	Available	IC-ENC	Atlantic
GB500414	UKHO	West Indies - Cuba - Puerto de la Habana	8000	Available	IC-ENC	Atlantic
GB500462	UKHO	Grand Cayman - George Town	8000	Available	IC-ENC	Atlantic
GB500463	UKHO	West Indies - Dominican Republic - North Coast - Puerto Plata	12000	Available	IC-ENC	Atlantic
GB500503	UKHO	Dixon Cove and French Harbor	12000	Available	IC-ENC	Atlantic
GB500519	UKHO	Georgetown	12000	Available	IC-ENC	Atlantic
GB500797	UKHO	West Indies - Grenada - Grenville Harbour	12000	Available	IC-ENC	Atlantic
GB501450	UKHO	Turks and Caicos Islands - South Caicos - Cockburn Harbour	12000	Available	IC-ENC	Atlantic
GB501452	UKHO	New Providence Island - Nassau	4000	Available	IC-ENC	Atlantic

Cell Name	Producing Auth	Title	Scale 1:	Status	Distributed by	Coast
GB501931	UKHO	Central America - Costa Rica - Puerto Caldera	12000	Available	IC-ENC	Pacific
GB501969	UKHO	Nicaragua - Pacific Ocean Coast - Corinto	12000	Available	IC-ENC	Pacific
GB502065	UKHO	West Indies - Northern Antigua Including Saint John's Harbour	22000	Available	IC-ENC	Atlantic
GB50257A	UKHO	Port Esquivel	12000	Available	IC-ENC	Atlantic
GB50257B	UKHO	Port Morant	12000	Available	IC-ENC	Atlantic
GB50257C	UKHO	Salt River Anchorage	12000	Available	IC-ENC	Atlantic
GB502988	UKHO	Central America - Honduras - North Coast - Puerto Cortes	12000	Available	IC-ENC	Atlantic
GB50390A	UKHO	South Riding Point Oil Terminal	22000	Available	IC-ENC	Atlantic
GB503912	UKHO	Anchorage off Bannerman Town	4000	Available	IC-ENC	Atlantic
GB50417A	UKHO	Dominican Republic - South Coast - Puerto de Haina	8000	Available	IC-ENC	Atlantic
GB50459A	UKHO	Mosquito Cove	12000	Available	IC-ENC	Atlantic
GB50459B	UKHO	West Indies - Jamaica - North Coast - Saint Ann's Bay	12000	Available	IC-ENC	Atlantic
GB50459C	UKHO	West Indies - Jamaica - North Coast - Lucea Harbour	12000	Available	IC-ENC	Atlantic
GB50459D	UKHO	North Coast - Rio Bueno	12000	Available	IC-ENC	Atlantic
GB50459E	UKHO	West Indies - Jamaica - North Coast - Oracabessa Bay	12000	Available	IC-ENC	Atlantic
GB50459F	UKHO	West Indies - Jamaica - North Coast - Falmouth Harbour	8000	Available	IC-ENC	Atlantic
GB50459G	UKHO	Discovery Bay	4000	Available	IC-ENC	Atlantic
GB50467A	UKHO	West Indies - Dominican Republic - San Pedro de Macoris	12000	Available	IC-ENC	Atlantic
GB50467B	UKHO	West Indies - Dominican Republic - Bahia de Andres	12000	Available	IC-ENC	Atlantic
GB50467C	UKHO	West Indies - Dominican Republic - Puerto de Santo Domingo	12000	Available	IC-ENC	Atlantic
GB50467D	UKHO	West Indies - Dominican Republic - Puerto La Romana	12000	Available	IC-ENC	Atlantic
GB50471C	UKHO	Dominican Republic - South Coast - Puerto de Barahona	12000	Available	IC-ENC	Atlantic
GB50487D	UKHO	West Indies - Saint Christopher - Basseterre Bay	22000	Available	IC-ENC	Atlantic
GB50489A	UKHO	West Indies - Leeward Islands - Nevis - Charlestown	8000	Available	IC-ENC	Atlantic

Cell Name	Producing Auth	Title	Scale 1:	Status	Distributed by	Coast
GB50489B	UKHO	West Indies - Leeward Islands - Nevis - Long Point Harbour	8000	Available	IC-ENC	Atlantic
GB50499A	UKHO	Port Castries	4000	Available	IC-ENC	Atlantic
GB50499B	UKHO	Vieux Fort	12000	Available	IC-ENC	Atlantic
GB50499C	UKHO	Windward Islands - Grand Cul de Sac Bay	8000	Available	IC-ENC	Atlantic
GB50499D	UKHO	Windward Islands - Saint Lucia - Marigot Harbour	4000	Available	IC-ENC	Atlantic
GB50697B	UKHO	Woodbridge Bay and Roseau Roads	12000	Available	IC-ENC	Atlantic
GB50797A	UKHO	West Indies - Grenada - Saint David's Harbour to Prickly Bay	22000	Available	IC-ENC	Atlantic
GB50797B	UKHO	West Indies - Grenada - Grenada Bay and Approaches	22000	Available	IC-ENC	Atlantic
GB50799A	UKHO	Admiralty Bay	12000	Available	IC-ENC	Atlantic
GB50799B	UKHO	Kingstown Harbour and Approaches	12000	Available	IC-ENC	Atlantic
GB50799C	UKHO	Grenada - Saint George's Harbour and Approaches	8000	Available	IC-ENC	Atlantic
GB51489A	UKHO	Bahamas - New Providence Island - Clifton Pier	8000	Available	IC-ENC	Atlantic
GB51798A	UKHO	Central America - Caribbean Coast of Costa Rica - Puerto Limon	12000	Available	IC-ENC	Atlantic
GB51798B	UKHO	Costa Rica - Bahia de Moin	12000	Available	IC-ENC	Atlantic
GB51946B	UKHO	Guatemala - Quetzal	12000	Available	IC-ENC	Pacific
GB51946C	UKHO	El Salvador - Acajutla	12000	Available	IC-ENC	Pacific
GB51961C	UKHO	Cutuco	12000	Available	IC-ENC	Pacific
GB51961E	UKHO	Puerto de Henecan	12000	Available	IC-ENC	Pacific
GB52020A	UKHO	West Indies - British Virgin Islands - Virgin Gorda - North Sound and Approaches	12000	Available	IC-ENC	Atlantic
GB52020B	UKHO	West Indies - British Virgin Islands - Tortola - Road Harbour and Approaches	12000	Available	IC-ENC	Atlantic
GB52064A	UKHO	West Indies - Antigua - Falmouth Harbour and English Harbour	12000	Available	IC-ENC	Atlantic
GB52064B	UKHO	West Indies - Antigua - Mamora Bay	8000	Available	IC-ENC	Atlantic

Cell Name	Producing Auth	Title	Scale 1:	Status	Distributed by	Coast
GB52988B	UKHO	Barrios Santo Tomas De Castilla	22000	Available	IC-ENC	Atlantic
GB58004B	UKHO	Trinidad and Tobago - Port of Spain - Grier Basin	12000	Available	IC-ENC	Atlantic
GB58022A	UKHO	Speightstown including Arawak Jetty	12000	Available	IC-ENC	Atlantic
GB58022B	UKHO	Bridgetown Harbour and Approaches	12000	Available	IC-ENC	Atlantic
GB58022C	UKHO	Oistins Bay	12000	Available	IC-ENC	Atlantic
GB58062A	UKHO	Little Bay	4000	Available	IC-ENC	Atlantic
GB58102A	UKHO	West Indies - Jamaica - North Coast - Ocho Rios Bay	8000	Available	IC-ENC	Atlantic
GB58102B	UKHO	West Indies - Jamaica - South Coast - Kingston Harbour	12000	Available	IC-ENC	Atlantic
GB58102C	UKHO	Port Antonio	4000	Available	IC-ENC	Atlantic
GB58122A	UKHO	West Indies - Jamaica - North Coast - Montego Bay	12000	Available	IC-ENC	Atlantic
GB58910A	UKHO	Bocas Del Toro	12000	Available	IC-ENC	Atlantic
GB58910B	UKHO	Boca Del Drago	12000	Available	IC-ENC	Atlantic
GB58910C	UKHO	Chiriqui Grande	12000	Available	IC-ENC	Atlantic
GB58911A	UKHO	Panama - Puerto de La Bahia de Las Minas	12000	Available	IC-ENC	Atlantic
GB58932A	UKHO	Commerce Bight	12000	Available	IC-ENC	Atlantic
GB58932B	UKHO	Big Creek and Approaches	12000	Available	IC-ENC	Atlantic
MX501112	SEMAR	El Rosarito B.C.	8000	Available	IC-ENC	Pacific
MX501114	SEMAR	El Sauzal B.C.	8000	Available	IC-ENC	Pacific
MX501116	SEMAR	Ensenada	8000	Available	IC-ENC	Pacific
MX501118	SEMAR	Costa Azul	8000	Dec-15	IC-ENC	Pacific
MX501118	SEMAR	Costa Azul B.C.	8000	Available	IC-ENC	Pacific
MX502111	SEMAR	Bahia San Filipe B.C.	12000	Available	IC-ENC	Pacific
MX502161	SEMAR	Puerto Libertad Son	12000	Available	IC-ENC	Pacific
MX502332	SEMAR	San Carlos, Son.	8000	Available	IC-ENC	Pacific
MX502334	SEMAR	Guaymas, Son.	12000	Available	IC-ENC	Pacific
MX503217	SEMAR	Portulano del Loreto	4000	Available	IC-ENC	Pacific
MX503232	SEMAR	Bahía Pichilingue	8000	Available	IC-ENC	Pacific

Cell Name	Producing Auth	Title	Scale 1:	Status	Distributed by	Coast
MX503233	SEMAR	La Paz	8000	Available	IC-ENC	Pacific
MX503332	SEMAR	Acceso al Puerto do Topolobampo - Sin. Canal Exter	12000	Available	IC-ENC	Pacific
MX503333	SEMAR	Acceso al Puerto de Topolobampo - Sin. Canal Inter	12000	Available	IC-ENC	Pacific
MX503632	SEMAR	Puerto El Sábalo - Sin.	8000	Available	IC-ENC	Pacific
MX503633	SEMAR	Mazatlán - Sin y Proximidades	12000	Available	IC-ENC	Pacific
MX503634	SEMAR	Mazatlán - Sin	8000	Available	IC-ENC	Pacific
MX504031	SEMAR	Bahía Vargas Lozano	4000	Available	IC-ENC	Pacific
MX504121	SEMAR	Boca Teacapan	8000	Available	IC-ENC	Pacific
MX504214	SEMAR	Puerto Vallarta	8000	Available	IC-ENC	Pacific
MX504233	SEMAR	Barra de Navidad	12000	Available	IC-ENC	Pacific
MX505113	SEMAR	Manzanillo	4000	Available	IC-ENC	Pacific
MX505115	SEMAR	Laguna de Cuyutlan - Col	8000	Available	IC-ENC	Pacific
MX505133	SEMAR	Lazaro Cardenas	8000	Available	IC-ENC	Pacific
MX505134	SEMAR	Caleta de Campos	8000	Available	IC-ENC	Pacific
MX505213	SEMAR	Bahia de Isla Grande (Ixtapa)	8000	Available	IC-ENC	Pacific
MX505214	SEMAR	Bahía de Zihuatanejo	8000	Available	IC-ENC	Pacific
MX505233	SEMAR	Portulano de Acapulco	8000	Available	IC-ENC	Pacific
MX505234	SEMAR	Puerto Marquez	4000	Available	IC-ENC	Pacific
MX506212	SEMAR	Puerto Escondido - Oaxaca	12000	Available	IC-ENC	Pacific
MX506221	SEMAR	Puerto Ángel - Oax	8000	Available	IC-ENC	Pacific
MX506233	SEMAR	Salina Cruz y Proximidades	12000	Available	IC-ENC	Pacific
MX506341	SEMAR	Puerto Chiapas	8000	Available	IC-ENC	Pacific
MX507113	SEMAR	Puerto El Mezquital	8000	Available	IC-ENC	Atlantic
MX507121	SEMAR	Boca Sta. Maria a Boca Sandoval	12000	Available	IC-ENC	Atlantic
MX507222	SEMAR	Puerto de Altamira	8000	Available	IC-ENC	Atlantic
MX508113	SEMAR	Isla Lobos	4000	Available	IC-ENC	Atlantic
MX508122	SEMAR	Tuxpan	12000	Available	IC-ENC	Atlantic

Cell Name	Producing Auth	Title	Scale 1:	Status	Distributed by	Coast
MX508124	SEMAR	Tecolutla - Ver	12000	Available	IC-ENC	Atlantic
MX508131	SEMAR	Nautla - Ver (Barra de Palmas)	12000	Available	IC-ENC	Atlantic
MX508133	SEMAR	Laguna Verde	12000	Available	IC-ENC	Atlantic
MX508214	SEMAR	Veracruz	8000	Available	IC-ENC	Atlantic
MX508221	SEMAR	Puerto de Alvarado	12000	Available	IC-ENC	Atlantic
MX508313	SEMAR	Coatzacoalcos-Pajaritos	8000	Available	IC-ENC	Atlantic
MX508315	SEMAR	Nanchital	4000	Available	IC-ENC	Atlantic
MX508316	SEMAR	San Francisco-Tierra Nueva	4000	Available	IC-ENC	Atlantic
MX508317	SEMAR	El Ileguero a Boca del Uxpanapa (Rio Coatz.)	4000	Available	IC-ENC	Atlantic
MX508318	SEMAR	Minatitlan	4000	Available	IC-ENC	Atlantic
MX508324	SEMAR	Dos Bocas, Tabasco	4000	Available	IC-ENC	Atlantic
MX508413	SEMAR	Frontera y Proximidades	12000	Available	IC-ENC	Atlantic
MX508422	SEMAR	Laguna de Términos Entrada Oeste	12000	Available	IC-ENC	Atlantic
MX508423	SEMAR	Laguna de Términos Entrada Este	12000	Available	IC-ENC	Atlantic
MX508431	SEMAR	Sabancuy	12000	Available	IC-ENC	Atlantic
MX508523	SEMAR	Cayo Arcas y Proximidades	12000	Available	IC-ENC	Atlantic
MX508531	SEMAR	Seybaplaya	12000	Available	IC-ENC	Atlantic
MX508533	SEMAR	Lerma	8000	Available	IC-ENC	Atlantic
MX509123	SEMAR	Portulano Yukalpeten, Yuc.	3500	Dec-15	IC-ENC	Atlantic
MX509125	SEMAR	Terminal Remota de Progreso	4000	Available	IC-ENC	Atlantic
MX509142	SEMAR	El Cuyo	12000	Available	IC-ENC	Atlantic
MX509211	SEMAR	Isla Holbox - Q.Roo	12000	Available	IC-ENC	Atlantic
MX509223	SEMAR	Puerto Morelos, Q. Roo.	12000	Dec-15	IC-ENC	Atlantic
MX509225	SEMAR	San Miguel de Cozumel	12000	Available	IC-ENC	Atlantic
MX509226	SEMAR	Playa del Carmen	8000	Dec-15	IC-ENC	Atlantic
MX59222A	SEMAR	Isla Mujeres	4000	Available	IC-ENC	Atlantic
MX59222B	SEMAR	Punta Sam	4000	Available	IC-ENC	Atlantic

Cell Name	Producing Auth	Title	Scale 1:	Status	Distributed by	Coast
NL502714	NLHO	Willemstad	4000	Available	IC-ENC	Atlantic
NL52211A	NLHO	Paardenbaai	8000	Available	IC-ENC	Atlantic
NL52212A	NLHO	Kralendijk	22000	Available	IC-ENC	Atlantic
NL52212B	NLHO	Oilterminal Goto	12000	Available	IC-ENC	Atlantic
NL52212C	NLHO	Saltjetty	4000	Available	IC-ENC	Atlantic
NL52213A	NLHO	Bullenbaai	8000	Available	IC-ENC	Atlantic
NL52715A	NLHO	Sint Nicolaasbaai	8000	Available	IC-ENC	Atlantic
NL52715B	NLHO	Haven Barcadera	8000	Available	IC-ENC	Atlantic
NL52715C	NLHO	Commandeursbaai	8000	Available	IC-ENC	Atlantic
NL52715D	NLHO	Caracasbaai - Fuikbaai - Spaanse Water	8000	Available	IC-ENC	Atlantic
NL52716D	NLHO	Saba	22000	Available	IC-ENC	Atlantic
NL52716E	NLHO	Sint Maarten	22000	Available	IC-ENC	Atlantic
NL52716G	NLHO	Sint Eustatius	22000	Available	IC-ENC	Atlantic
SR52218A	NLHO	Paramaribo	22000	Available	IC-ENC	Atlantic
SR52218B	NLHO	Paranam Bight	12000	Available	IC-ENC	Atlantic
US509860	NGA	Panama Canal Northern End	15000	Available	NOAA	Atlantic
US510820	NGA	Jacmel	12500	Available	NOAA	Atlantic
US510880	NGA	Port-Au-Prince	10000	Available	NOAA	Atlantic
US510885	NGA	Baie de Saint-Marc	10000	Available	NOAA	Atlantic
US510910	NGA	Gonaives	12500	Available	NOAA	Atlantic
US510930	NGA	Cap-Haitien	10000	Available	NOAA	Atlantic
US515390	NGA	Panama Canal	30000	Available	NOAA	Atlantic
US515410	NGA	Panama Canal Southern End	25000	Available	NOAA	Pacific
US5AL11M	NOAA	Mobile Ship Channel	25000	Available	NOAA	Atlantic
US5AL12M	NOAA	Santa Rosa Sound To Wolf Bay	40000	Available	NOAA	Atlantic
US5AL13M	NOAA	Mobile Bay Approaches and Lower Half	40000	Available	NOAA	Atlantic
US5AL14M	NOAA	Mobile Bay East Fowl River to Deer River Pt; Mobile	20000	Available	NOAA	Atlantic

Cell Name	Producing Auth	Title	Scale 1:	Status	Distributed by	Coast
Middle Bay Terminal						
US5CA71M	NOAA	Approaches To San Diego Bay	20000	Available	NOAA	Pacific
US5FL09M	NOAA	Tampa and St Petersburg	20000	Available	NOAA	Atlantic
US5FL11M	NOAA	Tampa Bay and Approaches	40000	Available	NOAA	Atlantic
US5FL12M	NOAA	Tampa Bay	40000	Available	NOAA	Atlantic
US5FL15M	NOAA	Horseshoe Beach	20000	Available	NOAA	Atlantic
US5FL16M	NOAA	St.Marks River and approaches	15000	Available	NOAA	Atlantic
US5FL17M	NOAA	Intracoastal Waterway Tampa Bay to Port Richey	40000	Available	NOAA	Atlantic
US5FL19M	NOAA	Intracoastal Waterway Charlotte Harbor to Tampa Bay	40000	Available	NOAA	Atlantic
US5FL21M	NOAA	Intracoastal Waterway Miami To Elliott Key	40000	Available	NOAA	Atlantic
US5FL22M	NOAA	Miami Harbor	12000	Available	NOAA	Atlantic
US5FL24M	NOAA	Sands Key to Blackwater Sound	40000	Available	NOAA	Atlantic
US5FL25M	NOAA	Blackwater Sound To Matecumbe	40000	Available	NOAA	Atlantic
US5FL27M	NOAA	Miami to Marathon and Florida Bay	24000	Available	NOAA	Atlantic
US5FL29M	NOAA	Matecumbe to Grassy Key	40000	Available	NOAA	Atlantic
US5FL32M	NOAA	Fort Lauderdale Port Everglades	10000	Available	NOAA	Atlantic
US5FL33M	NOAA	Intracoastal Waterway West Palm Beach to Miami	40000	Available	NOAA	Atlantic
US5FL34M	NOAA	Lake Worth Inlet	10000	Available	NOAA	Atlantic
US5FL40M	NOAA	Intracoastal Waterway Palm Shores to Fort Pierce Inlet	40000	Available	NOAA	Atlantic
US5FL41M	NOAA	Intracoastal Waterway Fort Pierce Inlet to West Palm Beach;Loxahatchee River	40000	Available	NOAA	Atlantic
US5FL42M	NOAA	Intracoastal Waterway Fort Myers to Charlotte Harbor and Wiggins Pass	40000	Available	NOAA	Atlantic
US5FL43M	NOAA	Okeechobee Waterway St. Lucie Inlet to Fort Myers; Lake Okeechobee	40000	Available	NOAA	Atlantic
US5FL44M	NOAA	Chatham River to Clam Pass	30000	Available	NOAA	Atlantic
US5FL45M	NOAA	Lostmans River to Wiggins Pass	40000	Available	NOAA	Atlantic
US5FL48M	NOAA	Everglades National Park Whitewater Bay	50000	Available	NOAA	Atlantic

Cell Name	Producing Auth	Title	Scale 1:	Status	Distributed by	Coast
US5FL4AM	NOAA	Lostmans River to Wiggins Pass	40000	Available	NOAA	Atlantic
US5FL61M	NOAA	East Bay to West Bay	40000	Available	NOAA	Atlantic
US5FL62M	NOAA	West Bay to Santa Rosa Sound	40000	Available	NOAA	Atlantic
US5FL63M	NOAA	Lake Wimico To East Bay	40000	Available	NOAA	Atlantic
US5FL64M	NOAA	Apalachicola Bay to Lake Wimico	40000	Available	NOAA	Atlantic
US5FL65M	NOAA	Carrabelle to Apalachicola Bay	40000	Available	NOAA	Atlantic
US5FL66M	NOAA	St. Andrew Bay	25000	Available	NOAA	Atlantic
US5FL67M	NOAA	St. Andrew Bay - Bear Point to Sulphur Point	5000	Available	NOAA	Atlantic
US5FL72M	NOAA	Pensacola Bay	30000	Available	NOAA	Atlantic
US5FL73M	NOAA	Pensacola Bay Entrance	10000	Available	NOAA	Atlantic
US5FL88M	NOAA	Fort Pierce Harbor	10000	Available	NOAA	Atlantic
US5FL91M	NOAA	Dry Tortugas	30000	Available	NOAA	Atlantic
US5FL93M	NOAA	KEY WEST HARBOR AND APPROACHES	30000	Available	NOAA	Atlantic
US5FL94M	NOAA	KEY WEST HARBOR	10000	Available	NOAA	Atlantic
US5FL95M	NOAA	Bahia Honda Key to Sugarloaf Key	40000	Available	NOAA	Atlantic
US5FL96M	NOAA	Big Spanish Channel to Johnston Key	40000	Available	NOAA	Atlantic
US5FL98M	NOAA	Grassy Key to Bahia Honda Key	40000	Available	NOAA	Atlantic
US5FL99M	NOAA	Sugarloaf Key To Key West	40000	Available	NOAA	Atlantic
US5LA11M	NOAA	Calcasieu River And Lake	50000	Available	NOAA	Atlantic
US5LA12M	NOAA	Grand Lake - Forked Island to Ellender	40000	Available	NOAA	Atlantic
US5LA13M	NOAA	Intracoastal Waterway Wax Lake Outlet to Forked Island including Vermilion River	40000	Available	NOAA	Atlantic
US5LA16M	NOAA	Calcasieu River and Approaches	50000	Available	NOAA	Atlantic
US5LA23M	NOAA	Intracoastal Waterway Houma to Wax Lake Outlet	40000	Available	NOAA	Atlantic
US5LA24M	NOAA	Baptiste Collette Bayou to Mississippi River Gulf Outlet	40000	Available	NOAA	Atlantic
US5LA26M	NOAA	Port Fourchon and Approaches	40000	Available	NOAA	Atlantic
US5LA27M	NOAA	Intracoastal Waterway Catahoula Bay to Houma,	40000	Available	NOAA	Atlantic

Cell Name	Producing Auth	Title	Scale 1:	Status	Distributed by	Coast
		including the Houma Navigation ca				
US5LA33M	NOAA	Mississippi River Delta;Southwest Pass;South Pass;Head of Passes	40000	Available	NOAA	Atlantic
US5LA36M	NOAA	Intracoastal Waterway Waveland to Catahoula Bay	40000	Available	NOAA	Atlantic
US5LA37M	NOAA	New Orleans Harbor Chalmette Slip To Southport	15000	Available	NOAA	Atlantic
US5LA38M	NOAA	Barataria and Bayou Lafourche Waterways	50000	Available	NOAA	Atlantic
US5LA41M	NOAA	Loop Deepwater Port Louisiana Offshore Oil Port	50000	Available	NOAA	Atlantic
US5LA51M	NOAA	Mississippi River New Orleans To Remy	40000	Available	NOAA	Atlantic
US5LA52M	NOAA	New Orleans to Vacherie,LA	40000	Available	NOAA	Atlantic
US5MS11M	NOAA	Dog Keys Pass to Waveland	40000	Available	NOAA	Atlantic
US5MS21M	NOAA	Dauphin Island Ala To Horn Island Miss	40000	Available	NOAA	Atlantic
US5MS22M	NOAA	Pascagoula Harbor Mississippi	20000	Available	NOAA	Atlantic
US5PR11M	NOAA	Virgin Islands Virgin Gorda To St Thomas And St Croix	20000	Available	NOAA	Atlantic
US5PR12M	NOAA	Christiansted Harbor	10000	Available	NOAA	Atlantic
US5PR13M	NOAA	Frederiksted Road	20000	Available	NOAA	Atlantic
US5PR16M	NOAA	Pillsbury Sound	15000	Available	NOAA	Atlantic
US5PR21M	NOAA	St Thomas Harbor	10000	Available	NOAA	Atlantic
US5PR31M	NOAA	Puerto Arecibo and Puerto Palmas Altas	20000	Available	NOAA	Atlantic
US5PR32M	NOAA	Bahia De San Juan	10000	Available	NOAA	Atlantic
US5PR33M	NOAA	Approaches to San Juan Harbor	20000	Available	NOAA	Atlantic
US5PR41M	NOAA	Las Mareas	20000	Available	NOAA	Atlantic
US5PR42M	NOAA	Bahia De Ponce And Approaches	20000	Available	NOAA	Atlantic
US5PR43M	NOAA	Puerto Maunabo	20000	Available	NOAA	Atlantic
US5PR44M	NOAA	Bahia De Guayanilla And Bahia De Tallaboa	10000	Available	NOAA	Atlantic
US5PR45M	NOAA	Punta Petrona to Isla Caja de Muertos	20000	Available	NOAA	Atlantic
US5PR46M	NOAA	Bahia de Jobos and Bahia de Rincon	20000	Available	NOAA	Atlantic
US5PR47M	NOAA	Puerto Arroyo	20000	Available	NOAA	Atlantic

Cell Name	Producing Auth	Title	Scale 1:	Status	Distributed by	Coast
US5PR50M	NOAA	Navassa Island	15000	Available	NOAA	Atlantic
US5PR51M	NOAA	Isla de Culebra and Approaches	20000	Available	NOAA	Atlantic
US5PR52M	NOAA	Ensenada Honda	6500	Available	NOAA	Atlantic
US5PR53M	NOAA	Ensenada Honda to Canal de Luis Pena	10000	Available	NOAA	Atlantic
US5PR54M	NOAA	Puerto Yabucoa	10000	Available	NOAA	Atlantic
US5PR55M	NOAA	Pasaje de San Juan to Puerto de Humacao	40000	Available	NOAA	Atlantic
US5PR56M	NOAA	Pasaje de Vieques and Radas Roosevelt	25000	Available	NOAA	Atlantic
US5PR57M	NOAA	Punta Lima to Cayo Batata	20000	Available	NOAA	Atlantic
US5PR58M	NOAA	Ensenada Honda	10000	Available	NOAA	Atlantic
US5PR59M	NOAA	Bahia de Fajardo and Approaches	10000	Available	NOAA	Atlantic
US5PR61M	NOAA	Bahia de Mayaguez and Approaches	15000	Available	NOAA	Atlantic
US5PR62M	NOAA	Bahia de Boqueron	10000	Available	NOAA	Atlantic
US5PR63M	NOAA	Bahia de Guanica	10000	Available	NOAA	Atlantic
US5TX12M	NOAA	Stover Point To Port Brownsville	40000	Available	NOAA	Atlantic
US5TX13M	NOAA	Laguna Madre - Chubby Island to Stover Point	40000	Available	NOAA	Atlantic
US5TX14M	NOAA	Intracoastal Waterway Laguna Madre Middle Ground to Chubby Island	40000	Available	NOAA	Atlantic
US5TX22M	NOAA	Corpus Christi Bay	40000	Available	NOAA	Atlantic
US5TX23M	NOAA	Corpus Christi Harbor	10000	Available	NOAA	Atlantic
US5TX24M	NOAA	Redfish Bay to Middle Ground	40000	Available	NOAA	Atlantic
US5TX25M	NOAA	Intracoastal Waterway Carlos Bay to Redfish Bay, including Copano Bay	40000	Available	NOAA	Atlantic
US5TX26M	NOAA	Espiritu Santo Bay to Carlos Bay	40000	Available	NOAA	Atlantic
US5TX27M	NOAA	Corpus Christi Bay - Port Aransas to Port Ingleside	20000	Available	NOAA	Atlantic
US5TX32M	NOAA	Matagorda Bay	50000	Available	NOAA	Atlantic
US5TX33M	NOAA	Cedar Lakes to Espiritu Santo Bay	40000	Available	NOAA	Atlantic
US5TX51M	NOAA	Drum Bay To Galveston Bay	40000	Available	NOAA	Atlantic

Cell Name	Producing Auth	Title	Scale 1:	Status	Distributed by	Coast
US5TX53M	NOAA	Galveston Bay Entrance Galveston and Texas City Hrbrs	25000	Available	NOAA	Atlantic
US5TX54M	NOAA	Upper Galveston Bay	25000	Available	NOAA	Atlantic
US5TX55M	NOAA	Houston Ship Channel	10000	Available	NOAA	Atlantic
US5TX56M	NOAA	Houston Ship Channel Alexander Island To Carpenter Bayou	10000	Available	NOAA	Atlantic
US5TX57M	NOAA	Houston Ship Channel Carpenter Bayou To Houston	10000	Available	NOAA	Atlantic
US5TX58M	NOAA	Galveston Bay Clear Lake and Wooster	25000	Available	NOAA	Atlantic
US5TX61M	NOAA	Ellender to Galveston	40000	Available	NOAA	Atlantic
US5TX72M	NOAA	Sabine Pass And Lake	40000	Available	NOAA	Atlantic
US5TX73M	NOAA	Sabine And Neches Rivers	40000	Available	NOAA	Atlantic
VE500103	DHN	Castillete a Punta Perret	12000	Dec-15	IC-ENC	Atlantic
VE500104	DHN	Portulano de Amuay	12000	Available	IC-ENC	Atlantic
VE500105	DHN	Portulano de las Piedras	12000	Available	IC-ENC	Atlantic
VE500106	DHN	Portulano de Punta Cardon	12000	Available	IC-ENC	Atlantic
VE500202	DHN	Portulano de Muaco	12000	Dec-15	IC-ENC	Atlantic
VE500302	DHN	Isla de Aves	12000	Dec-15	IC-ENC	Atlantic
VE500308	DHN	Puerto de la Guaira	12000	Available	IC-ENC	Atlantic
VE500313	DHN	Portulano de Puerto Cabello	5000	Dec-15	IC-ENC	Atlantic
VE500315	DHN	Portulano de Catia La Mar	12000	Available	IC-ENC	Atlantic
VE500316	DHN	Puerto de Borburata y Areas Adyacentes	4000	Dec-15	IC-ENC	Atlantic
VE500319	DHN	Portulano El Palito	15000	Dec-15	IC-ENC	Atlantic
VE500404	DHN	Puerto de Guanta	3000	Dec-15	IC-ENC	Atlantic
VE500405	DHN	Bahia de Pozuelos	12000	Available	IC-ENC	Atlantic
VE500406	DHN	Bahia de Bergantin	12000	Available	IC-ENC	Atlantic
VE500407	DHN	Bahia Pertigalete	12000	Available	IC-ENC	Atlantic
VE500411	DHN	Portulano de Jose	12000	Available	IC-ENC	Atlantic
VE500501	DHN	Pampatar	12000	Dec-15	IC-ENC	Atlantic

Cell Name	Producing Auth	Title	Scale 1:	Status	Distributed by	Coast
VE500502	DHN	Bahia de Porlamar	12000	Available	IC-ENC	Atlantic
VE500503	DHN	Portulano Puerto de Cumana	10000	Dec-15	IC-ENC	Atlantic
VE500504	DHN	Portulano de Guamache	12000	Dec-15	IC-ENC	Atlantic
VE500511	DHN	Portulano de Juan Griego	12000	Dec-15	IC-ENC	Atlantic
VE500513	DHN	Portulano Planta de Distribucion El Guamache	5000	Dec-15	IC-ENC	Atlantic
VE500601	DHN	Portulano de Puerto Hierro	4000	Dec-15	IC-ENC	Atlantic
VE500603	DHN	Portulano Guiria	12000	Dec-15	IC-ENC	Atlantic
VE501301	DHN	Maracaibo	12000	Dec-15	IC-ENC	Atlantic
VE501302	DHN	Puerto Miranda	12000	Dec-15	IC-ENC	Atlantic
VE501401	DHN	Bajo Grande	12000	Available	IC-ENC	Atlantic
VE501402	DHN	La Salina	12000	Available	IC-ENC	Atlantic
VE509311	DHN	Ciudad Bolivar	10000	Dec-15	IC-ENC	Atlantic
VE509601	DHN	Puerto San Félix A Palúa	10000	Dec-15	IC-ENC	Atlantic
VE509701	DHN	Puerto Ferrominera	10000	Dec-15	IC-ENC	Atlantic

ANNEX A – ENC CELLS USAGE BAND 6 TABLE

Cell Name	Producing Auth	Title	Scale 1:	Status	Distributed by	Coast
CO600843	CIOH	Bahía de Cartagena (Canales de Acceso)	4000	Available	IC-ENC	Atlantic
CO600879	CIOH	Bahía De Sapzurro	4000	Available	IC-ENC	Atlantic
CO600891	CIOH	Bahía de Santa Catalina	4000	Jul-15	IC-ENC	Atlantic
FR67088A	SHOM	Baie du François	8000	12/31/2017	PRIMAR	Atlantic
FR67472A	SHOM	Petites Antilles - Saint-Martin: Baie de Marigot	12000	Available	PRIMAR	Atlantic
FR67472B	SHOM	Petites Antilles - Saint-Martin: Baie de Grand-Case and Anse Marcel	12000	Available	PRIMAR	Atlantic
FR674800	SHOM	Entrance to Kourou river - Pariacabo harbour	10004	Available	PRIMAR	Atlantic
FR67481A	SHOM	Côte de Guyane - Iles du Salut	12000	Available	PRIMAR	Atlantic
GB600398	UKHO	Bahamas - Grand Bahama Island - Freeport Harbour	8000	Available	IC-ENC	Atlantic
GB600454	UKHO	West Indies - Jamaica - South Coast - Kingston Harbour - Port Bustamante	8000	Available	IC-ENC	Atlantic
GB601401	UKHO	Puerto Balboa	8000	Available	IC-ENC	Pacific
GB602065	UKHO	West Indies - Northern Antigua - Saint John's Harbour	12000	Available	IC-ENC	Atlantic
MX606225	SEMAR	Santa Cruz Huatulco	3000	Available	IC-ENC	Pacific
MX606234	SEMAR	Salina Cruz, Oaxaca	3500	Available	IC-ENC	Pacific
MX606342	SEMAR	Canal de Acceso a Puerto Chiapas	3500	Available	IC-ENC	Pacific
MX608125	SEMAR	Laguna de Tampamachoco - Ver	3500	Available	IC-ENC	Atlantic
MX63521A	SEMAR	Cabo San Lucas, Baja California Sur	3000	Available	IC-ENC	Pacific
MX64241A	SEMAR	Canal de Acceso a Puerto Vallarta - Jal	3500	Available	IC-ENC	Pacific
NL62212D	NLHO	Jetties Kralendijk	4000	Available	IC-ENC	Atlantic
NL62716A	NLHO	Oranjebaai	12000	Available	IC-ENC	Atlantic
NL62716B	NLHO	Saba Fort Baai	2500	Available	IC-ENC	Atlantic
NL62716C	NLHO	Philipsburg	12000	Available	IC-ENC	Atlantic

NL62716F	NLHO	Oysterpond	8000	Available	IC-ENC	Atlantic
US6LA36M	NOAA	ICWW: Jean Lafitte to Bayou Black	8000	Available	NOAA	Atlantic
US6PR13M	NOAA	Frederiksted Pier	2500	Available	NOAA	Atlantic

ANNEX B.1 – MEMBER STATES’ ACTIONS ADDRESSING GAPS

Responsible Member States		Data Discrepancy/ Usage Band/ Datum Issues	Affected Cells	Status	Status Statement	Completion Date
UB2 Gaps						
Brazil (UB2)		Gap (area between FR 250010 and BR 221020)	BR221010	Resolved	Already covered by Brazilian Cell BR221010.	Jun-10
			FR 250010, FR276250	Resolved	The new French cell is available. FR 250010 was withdrawn and replaced by FR276250 and clipped at BR boundaries.	Jun-10
UB3 Gaps						
Venezuela	Guyana		Charts INT 4102 and INT 4100	Resolved	<p>INT Charts INT 4102 and 4100 to be produced by VE. This means that equivalent cells should logically be produced by VE. ECC/MACHC Chair to propose to VE to produce equivalent ENCs clipped at the FR374840.</p> <p><i>Update 8/23/10: After conferring with France and Venezuela, there is no need to determine where to clip the cells, as they do not touch.</i></p> <p><i>VE to provide ENC cell limits (equivalents of INT Charts INT 4102 and 4100) to Chair ECC.</i></p>	Jun-10
Suriname Fr Guyana	Brazil	Gap (southward from Guyana, including Suriname, Fr Guyana to Brazil)	FR374840 and FR374850. BR321200; BR321300; BR321400 and BR321500	Pending	Covered by FR 374840 and FR374850. Cells will be clipped at the southern boundary of Brazil Cell BR 321100, which is available. France noted that there is an agreement between Brazil and France to address this issue on French Guyana’s Coast. No border gap between French and Brazil.	FR cells released in Oct 2010. BR321300 (June 2014) and BR321400 (June 2014) cells to be released. BR321500 (Available)

Responsible Member States		Data Discrepancy/ Usage Band/ Datum Issues	Affected Cells	Status	Status Statement	Completion Date
Colombia		Gap (UB3)	CO200008	Resolved	This cell will cover the gap; no need for a UB 3 cell in that area.	Dec-10
US	Mexico	Gap	US1GC09	Resolved	Covered at scale band 1.	Jun-10
			MX300711	Resolved	Coastal area covered at band 3 by Mexico.	Jun-10
			MX300712	Resolved	Coastal area covered at band 3 by Mexico.	Jun-10
			MX300713	Resolved	Coastal area covered at band 3 by Mexico.	Jun-10
			MX300721	Resolved	Coastal area covered at band 3 by Mexico.	Jun-10
				Resolved	MX will assess if UB1 (US1GC09) would be enough for this gap.	Nov-10
Cuba				Pending	MICC Chair and UKHO representative continue efforts to engage Cuba, including requesting support from MACHC Chair, if necessary. Final solution still pending. 8 new UB3 cells released in 2013. The UK has had some recent contact with Cuba and may be able to meet with Cuba in near future.	Dec-15
UK		Gap Honduran coast		Resolved	Covered by GB201220; GB300513 will cover northwest side of Honduran coast for adequate usage band 3 coverage.	Nov-10
UK		Gap for Haiti		Resolved	Covered by GB281800.	Nov-10
UB4-6 Gaps						
UK/US	Bahamas	Castaway Cay		Pending	Priority Port (Private) used by Disney Cruises	Mar-15
UK/US	Bahamas	Coco Cay (Little Stirrup Cay)		Pending	Priority Port (Private) used by Royal Caribbean Cruises	Mar-15
UK/US	Bahamas	Great Stirrup Cay		Pending	Priority Port (Private) used by Norwegian Cruise Lines	Mar-15
UK/US	Bahamas	Half Moon Cay		Pending	Priority Port (Private) used by Holland American	Mar-15

Responsible Member States		Data Discrepancy/ Usage Band/ Datum Issues	Affected Cells	Status	Status Statement	Completion Date
UK	Bahamas	Princess Cay	GB503912	Resolved	Priority Port (Private) used by Princess Cruises Lines. Planned cell to be released October 2011.	Nov-11
UK	Honduras	Roatan Island	GB50503A	Pending	Location of Coast Guard Station/Cruise Ship Port-of-Call	Dec-13
UK	Honduras	Roatan Island	GB50503B	Pending	Location of Coast Guard Station/Cruise Ship Port-of-Call	Dec-13
UK	Costa Rica	Golfito	GB32493A	Resolved	Cargo Port	Jan-14
UK	Costa Rica	Golfito	GB42493B	Resolved	Cargo Port	Jan-14
UK	Panama	Charco Azul	GB42493A	Resolved	Tanker Port	Jan-14
Venezuela		Boca Grande Terminal	NONE	Pending	Floating iron ore transfer station (largest in the world). Plans for future surveys in conjunction with national oil company.	Jul-15
Venezuela		Matanzas	NONE	Pending	Ocean freight exchange. New survey in early 2012.	Jul-15
Venezuela		Puerto Ordaz	VE509701	Pending	San Felix and Puerto Ordaz are very close to one another, located at the confluence of the Caroni and Orinoco Rivers handling steel and aluminum.	Jul-15
Venezuela		Palua	VE509601/VE509701	Pending	VE509601/VE509701 to be produced	Jul-15
Venezuela		Ciudad Bolivar	VE509311	Pending	VE509311 to be produced	Jul-15
Venezuela		San Felix	VE509601	Pending	San Felix and Puerto Ordaz are very close to one another, located at the confluence of the Caroni and Orinoco Rivers handling steel and aluminum.	Jul-15

ANNEX B.2 – MEMBER STATES’ ACTIONS ADDRESSING OVERLAPS

Affected Member States		Data Discrepancy/ Usage Band/ Datum Issues	Affected Cells		Status	Status Statement	Completion Date
Brazil	France	Overlap	BR221010	FR276250	Resolved	FR 250010 withdrawn and replaced by FR276250 and clipped at BR boundaries; BR221010 available.	Sep-11
Colombia	Venezuela	Overlap	CO3000026	VE300100	Resolved	<p>CO and VE exchanged proposals on suggested ENC boundary limits. At the MACHC XI meeting, a bi-national technical working group was established to address unresolved technical issues and to develop a recommendation for resolution that can be submitted to the higher authorities in each country.</p> <p>Venezuela has suggested that the Technical Group communicate weekly to enable technical progress.</p> <p>Meeting (June) between Colombian and Venezuelan technical experts occurred at MACHC XII meeting. Meeting supposed to occur in March to sign a MOU between two countries.</p>	Jun-12
Mexico	US	Overlap	MX300711	US3GC01M	Resolved	Mexico sent M_Covr limits to US; US made cut to US3GC01M with respect to MX300711 limits and released US3GC01M reflecting new limits.	May 25 2011
UK US Mexico	Cuba	Overlap	Various Cuba cells	Various US, UK, and Mexico cells	Pending	<p>US, UK, and Mexico will propose solution that ECC Chair can send to Cuba for consideration. Once approved and cells are available, solution will be implemented.</p> <p>This is “pending” until discussions with Cuba.</p>	12/2011 See detailed items below

Affected Member States		Data Discrepancy/ Usage Band/ Datum Issues	Affected Cells		Status	Status Statement	Completion Date
Mexico	US	Overlap	MX200900	US2GC12M	Resolved	Mexico sent their proposal to US; US responded with amended proposal. US made the agreed cuts to the new boundaries of the Mexico cell. US2GC12M released, but awaiting release of MX200900. MX cell pending release until further notice of missing Cuba data.	Aug 2011 - US Dec 2011 - MX
UK	US	Overlap	GB281800	US2EC01M	Pending	US provided geographic positions to UK; UK has cut GB cell. US needs to cut US cell to GB limits.	Mar-12
UK	US	Overlap	GB283000	US2EC02M	Resolved	GB283000 cancelled and rebanded as Usage Band 3.	Jan-11
UK	France	Overlap	GB283800	FR250020	Resolved	GB283800 cancelled. FR250020 replaced by FR274750.	May-10
US	UK	Overlap	US2EC01M	GB283000	Resolved	GB283000 cancelled and rebanded as Usage Band 3.	Jan-11
UK	US	Overlap	GB302006	US3PR10M	Resolved	GB302006 cancelled and rebanded as Usage Band 4.	Jan-11
UK	US	Overlap	GB302016	US3PR10M	Resolved	US3PR10M will be clipped to existing limits of GB302016	Mar-12
US	UK	Overlap	GB300472	US3PR10M	Resolved	GB300472 will be clipped to existing limit of US3PR10M.	Mar-12
UK	US	Overlap	GB303910	US3FL30M	Resolved	US3FL30M and GB303910 will be clipped to agreed limit along the axis of longitude 79°20'00"W and latitude 26°00'00"N.	Mar-12
UK	France	Overlap	GB380230	FR352010	Resolved	Overlap is <5m on the ground and so is within tolerance. No further action is required.	Jun-10
UK	US	Overlap	GB402006	US4PR11M	Resolved	US to clip US4PR11M to existing limits of GB402006.	Mar-12
Colombia	UK	Overlap	CO200008	GB200486	Resolved	Colombia produced and released CO200008, UK issued GB200486 to replace GB200486 at the northern border of CO200008.	Spring 2011

Affected Member States		Data Discrepancy/ Usage Band/ Datum Issues	Affected Cells		Status	Status Statement	Completion Date
Colombia	UK	Overlap	CO200008	GB200396	Resolved	Colombia produced and released CO20008, and GB200396 was cancelled.	Spring 2011
US	Mexico	Overlap	US1WC07M	MX100010	Pending	MX and US still negotiating how to cut ENCs.	Jul-14
US	Mexico	Overlap	US1GC09M	MX100030	Pending	US would be willing to cut to MX cell limits.	Jul-14
UK	Mexico	Overlap	GB104802 GB104811	MX100020	Pending	When MX released, GB will be cut back.	Jul-14
MX	Cuba	Overlap	MX200900	CU211401	Resolved	MX and Cuba to cut along 85°W, resolving overlap.	May-12
US	Cuba	Overlap	US2EC01M	CU211401 CU211402 CU211403	Pending	Pending talks between US and Cuba to attempt to resolve prior to release of CU cell.	TBD
Cuba	GB	Overlap	CU211403	GB281800	Pending	TBD	TBD
US	Cuba	Overlap	US3GC07M	CU311423 CU311424 CU311425 CU311426	Resolved	Upon Cuban release, US cut ENCs.	Dec-13
US	Cuba	Overlap	US3FL90M US3FL30M	CU311426	Resolved	Upon Cuban release, US cut ENCs.	Dec-13
US	Cuba	Overlap	US3FL30M	CU311427	Pending	Pending talks between US and Cuba to attempt to resolve prior to release of CU cell.	TBD
UK	Cuba	Overlap	GB303907	CU311534	Pending	TBD	TBD

ANNEX C – WORK PLAN MILESTONES 2014

DELIVERY DATE (2014)	ACTIONS	
	Electronic Chart Activities	INT Chart Activities
January 31	Member States continue to provide plans to address gaps in ENC coverage within their area.	Member States continue to provide INT Chart metadata (as noted in S-11) for existing (available) INT Charts for use in GIS
March 6	In preparation for the quarterly Conference Call, Member States to provide updates to: <ul style="list-style-type: none"> the list in Annex A of the Report of available ENCs resolution of any gaps/overlaps identified in Annex B of the Report. 	In preparation for the quarterly Conference Call, Member States to forward INT Chart metadata and shapefiles for “planned” INT Charts. Member States to propose additional coverage/adjustments for S-11, section B
March 19	Hold quarterly conference call to assess status and next steps	
March 31	Agree on a Risk Assessment methodology.	
April 11	Complete follow-up activities from Conference Call. Member States to provide all additional information identified during conference call.	
May 10	In preparation for the quarterly Conference Call, Member States to provide updates to: <ul style="list-style-type: none"> the list in Annex A of the Report of available ENCs resolution of any gaps/overlaps identified in Annex B of the Report. 	In preparation for the quarterly Conference Call, Member States to forward INT Chart metadata and shapefiles for “planned” INT Charts. Member States to propose additional coverage/adjustments for S-11, section B update to MICC
June 18	Hold quarterly conference call to assess status and prepare information as needed for subsequent communication to IRCC and IHB.	
July 11	Complete follow-up activities from Conference Call. Member States to provide all additional information identified during conference call	
August 1		MS to forward S-11 updates to MICC technical coordinator for incorporation into Region B, S-11 to IHB, to include new Pacific INT scheme.
August 22		MICC technical coordinator to forward S-11 updates to IHB, to include Pacific INT scheme.
September 26	Provide initial draft of Report for review at the next Conference Call	
September 30	In preparation for the quarterly Conference Call, Member States to provide updates to: <ul style="list-style-type: none"> the list in Annex A of the Report of available ENCs resolution of any gaps/overlaps identified in Annex 	In preparation for the quarterly Conference Call, Member States to forward INT Chart metadata and shapefiles for “planned” INT Charts. Member States to propose additional coverage/adjustments

DELIVERY DATE (2014)	ACTIONS	
	Electronic Chart Activities	INT Chart Activities
	B of the Report.	for S-11, section B update to MICC
October 8 October 22	Hold quarterly follow-up conference call to update/review and discuss MS input in preparation of 15th MACHC	
November 7	Complete follow-up activities from Conference Call. Member States to provide all additional information identified during conference call	
November 7	Provide all updates to Leland (for the Annexes of the Report)	
November 14	All Members provide final comments on the Report to MICC Chair	
November 21	Submit Final Report to MACHC	
Nov/Dec 2014	Seek approval of Final Report at 15 th 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	

ANNEX C – WORK PLAN MILESTONES 2013

DELIVERY DATE (2013)	ACTIONS	
	Electronic Chart Activities	INT Chart Activities
January 31	Member States to provide plans to address gaps in ENC coverage within their area.	Member States to provide INT Chart metadata (as noted in S-11) for existing (available) INT Charts for use in GIS
March 6	Member States to provide updates to: <ul style="list-style-type: none"> the list in Annex A of the Report of available ENCs resolution of any gaps/overlaps identified in Annex B of the Report. 	Member States to forward INT Chart metadata and shapefiles for “planned” INT Charts
March 13	Hold quarterly conference call to assess status and next steps	
March 27	Complete follow-up activities from Conference Call. Member States to provide all additional information identified during conference call. Develop plan for coordinated Electronic Chart and INT Chart Report.	
April 5		Member States to propose additional coverage/adjustments for S-11, section B
May 3	Complete follow-up activities from Conference Call. Member States to provide all additional information identified during conference call	
May 10	Member States to provide updates to: <ul style="list-style-type: none"> the list in Annex A of the Report of available ENCs resolution of any gaps/overlaps identified in Annex B of the Report. 	Member States to provide S-11, section B update to MICC
May 22	Hold quarterly conference call to assess status and prepare information as needed for subsequent communication to IRCC and IHB.	
May 29	Complete follow-up activities from Conference Call. Member States to provide all additional information identified during conference call	
July 1	Develop format for report, reflecting the recently combined INT Chart and Electronic Chart Committees.	
July 5		Add catalog links on the MACHC Committees website
August 1	Member States to review revised WEND Principles and amplifying Annex (Action Item 29)	
August 1	Complete preliminary ‘Draft’ Report	
September 30	Member States to provide updates to: <ul style="list-style-type: none"> the list in Annex A of the Report of available ENCs resolution of any gaps/overlaps identified in Annex B of the Report. 	
October 23	Hold quarterly follow-up conference call to update/review and discuss MS input in preparation of 14th MACHC	
November 8	Provide all updates to Leland (for the Annexes of the Report)	

DELIVERY DATE (2013)	ACTIONS	
	Electronic Chart Activities	INT Chart Activities
November 15	All Members provide final comments on the Report to MICC Chair	
November 22	Submit Final Report to MACHC	
Nov/Dec 2013	Seek approval of Final Report at 14th 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	

ANNEX C – WORK PLAN MILESTONES 2012

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 21	Hold quarterly conference call, 10:00 EDT (US) to assess status and next steps
March 30	ECC/WG2 Members provide final updates to Annex A and B. (These are updates which could not be 100% confirmed at the March 21 Conference Call)
April 6	Chair, ECC integrates final ECC WG comments into Report
April 12	Chair, ECC sends final draft Report MACHC Chair (for distribution to MACHC Member States)
April 13	MACHC Chair distributes Report to MACHC Member States
April 27	Final Comments on Report due to ECC Chair
May 1	Finalize Report for distribution
May 10	Provide Final Report to MACHC Chair
May 11	MACHC Chair provides Report to 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 Meeting
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

ANNEX C – WORK PLAN MILESTONES 2011

DELIVERY DATE (2011)	ACTIONS	
	For UB 1-3 Band Cells for Pacific side	For UB 4-6 Band Cells for Atlantic side
January 31	Acquire MCOVR for MACHC Member States (MS) from the RENC for Pacific side to develop base polygons representing adequate ENC coverage for Pacific side (Colombia, Mexico, UK, US)	Acquire MCOVR for MACHC Member States (MS) from the RENC for Atlantic side Acquire Priority Ports and Routes from WEND ENC WG
January 31	Start data analysis of available M_Covr information	
February 4	MS points of contact (POC) provide MCOVR data when not available from the RENC	
February 15	Distribute results of data analysis (for discussion during conference call)	
February 25	Hold quarterly conference call, 10:00 EST (US) to assess status and next steps	
April 8	Complete the follow-up data analysis	
April 14	Hold quarterly conference call, tentative time 9:00 EDT (US) to assess status and next steps	
May 22	Produce draft Annex to ECC/WG2 ENC coverage report for Pacific ENCs	Produce draft expanded Annex A to ECC/WG2 ENC coverage report for Atlantic ENCs
May 25	Face-to-face meeting (in Niteroi, Brazil, in conjunction with the 9 th CBSC and IRCC-3 meetings) for MS POCs to review, discuss and finalize draft WG2 report on the status of adequate ENC coverage and address any outstanding issues	
June 29	Hold quarterly conference call, tentative time 10:00 EDT (US) to assess status and next steps	
August 26	Expanded draft report sections of addendum to report forwarded to WG members for comment	
September 8	Comments on addendum, and specific comments on annexes, back to Chair and communications coordinator	
September 28	Hold quarterly follow-up conference call to review and discuss MS responses to draft of expanded report	
October 14	Distribute WG2 Report to MACHC Chair; copy to MACHC National Hydrographers for review and endorsement.	
November 4	Comments back to ECC Chair; copy MACHC Chair	
November 16	Submit final report to MACHC	
December 5-9	Seek approval of final report at 12 th MACHC meeting	
December 16	MACHC Chair to distribute final report of the <i>Status of ENC Coverage for the MACHC Region</i> to the IHB	

ANNEX C – WORK PLAN MILESTONES 2010

DELIVERY DATE (2010)	ACTIONS
January 31	Develop base polygons representing adequate ENC coverage derived from medium scale INT scheme.
January 31	Acquire MCOVR for MACHC Member States (MS) from the RENC.
January 31	MS points of contact (POC) provide MCOVR data when not available from the RENC.
February 24	Hold quarterly conference call, tentative time 10AM EST, to discuss current coverage, gaps, next steps.
March 12	Forward omitted MCOVR information so that the graphic properly reflects existing and planned ENC coverage.
April 9	Complete the follow-up data analysis to include the new information.
April 16	Countries receive data analysis results, including targeted guidance on areas of primary focus and action.
May 21	Produce draft of final report. (Start now and supplement with new data analysis as appropriate.)
May 26	Hold quarterly conference call to review WG2 MACHC ENC coverage report outline, tentative time 10 AM EST.
May 28	All countries look at data analysis (provided by UK) and forward any omissions and/or updates to Paul Bradley.
June 1	U.S. populates template, based on UK data analysis, and distributes to countries for consideration.
June 9	Countries respond to data analysis via "reporting template."
June 16	Face-to-face meeting for MS POCs to review, discuss and finalize draft WG2 report on the status of adequate ENC coverage. Address any outstanding issues.
July 2	Draft sections of report sent to Chair.
August 25	Expanded draft report sent to WG members for comment.
September 8	Comments on report, and specific comments on the annexes, back to technical coordinator and communications coordinator.
September 14	Hold quarterly follow-up conference call to review and discuss MS response to the WG2 Report.
September 20	Distribute WG2 Report to MACHC Chair; copy to MACHC National Hydrographers for review and endorsement.
October 8	Comments back to ECC Chair; copy to MACHC Chair.
October 18	Submit final report to MACHC.
November 8-12	Seek approval of final report at MACHC meeting in Suriname.
December 15	MACHC Chair to distribute final <i>ENC Coverage for the MACHC Region</i> to the IHB.

ANNEX D – PRIORITY PORTS LIST

COUNTRY	PORT	Adequate Coverage
American Virgin Islands	Christiansted	Yes
	Hovensá	Yes
	St Croix	Yes
	St Thomas	Yes
Aruba	San Nicolas Bay	Yes
Bahamas	Castaway Cay	No
	Coco Cay	No
	Freeport (BHS)	Yes
	Great Stirrup Cay	No
	Half Moon Cay	No
	Nassau	Yes
	Princess Cays	Yes
	South Riding Point Oil Terminal	Yes
Belize	Belize City	Yes
	Big Creek	Yes
	Macapa	Yes
British Virgin Islands	Tortola (Port Purcel)	Yes
Caribbean Netherlands	St Eustatius	Yes
Cayman Islands	Cayman Brac	Yes
	Little Cayman	Yes
Colombia	Bahía Colombia	No
	Barranquilla	Yes
	Cartagena	Yes
	Coveñas	Yes
	Isla de Providencia	Yes
	Mamonal	Yes
	Manaure	No
	Puerto Bolivar	Yes
	Puerto Nuevo	Yes

COUNTRY	PORT	Adequate Coverage
Panama	Balboa	Yes
	Charco Azul	Yes
	Chiriqui Grande	Yes
	Coco Solo	Yes
	Colon	Yes
	Cristobal	Yes
	Las Minas Bay	Yes
	Manzanillo	Yes
	Panama Canal	Yes
Puerto Rico	Guayanilla	Yes
	Las Mareas	Yes
	Ponce	Yes
	San Juan	Yes
	Yabucoa	Yes
St Maarten	Philipsburg	Yes
St. Kitts-Nevis	St Kitts	Yes
St. Lucia	Castries	Yes
	Cul de Sac	Yes
	Vieux Fort	Yes
Suriname	Paramaribo	Yes
Trinidad & Tobago	Chaguaramas	Yes
	Galeota Point Terminal	Yes
	Point Lisas	Yes
	Pointe a Pierre	Yes
	Port of Spain	Yes
	Tembladora	Yes
United States of America	Alliance	Yes
	Ama Anchorage	Yes
	Avondale	Yes

COUNTRY	PORT	Adequate Coverage
	Puerto Portete	Yes
	Riohacha	Yes
	San Andres	Yes
	Santa Marta	Yes
	Tolcementos Tolú	Yes
	Turbo	No
Costa Rica	Caldera (CR)	Yes
	Puerto Limon	Yes
	Puntarenas	Yes
Cuba	Cienfuegos	No
	Havana	Yes
Dominican Republic	Barahona	Yes
	Caucedo	Yes
	La Romana	Yes
	Puerto Plata	Yes
	Rio Haina	Yes
	San Pedro de Macoris	Yes
	Santo Domingo	Yes
El Salvador	Acajutla	Yes
French Guiana	Degrad des Cannes	Yes
Guadeloupe	Pointe a Pitre	Yes
	St Martin	Yes
Guatemala	Puerto Barrios	Yes
	Puerto Quetzal	Yes
	Santo Tomas de Casti	Yes
Guyana	Demerara	Yes
	Everton	Yes
Haiti	Cap Haitien	Yes
	Port au Prince	Yes
Honduras	Puerto Cortes	Yes
	Roatan Island	Yes
Jamaica	Kingston	Yes
	Montego Bay	Yes

COUNTRY	PORT	Adequate Coverage
	Baton Rouge	Yes
	Beaumont	Yes
	Bienville	Yes
	Boothville	Yes
	Braithwaite	Yes
	Brownsville	Yes
	Burnside	Yes
	Chalmette	Yes
	Convent	Yes
	Corpus Christi	Yes
	Darrow	Yes
	Davant	Yes
	Destrehan	Yes
	Donaldsonville	Yes
	Fort Lauderdale (Port Everglades)	Yes
	Freeport (Texas)	Yes
	Galveston	Yes
	Garyville	Yes
	Geismar	Yes
	Good Hope	Yes
	Gramercy	Yes
	Gretna	Yes
	Gulfport	Yes
	Harvey	Yes
	Houston	Yes
	Ingleside	Yes
	Key West	Yes
	La Place	Yes
	Lake Charles	Yes
	LOOP Terminal	Yes
Meraux	Yes	
Miami	Yes	
Mobile	Yes	

COUNTRY	PORT	Adequate Coverage
	Ocho Rios	Yes
	Port Esquivel	Yes
	Port Kaiser	Yes
	Port Rhoades	Yes
	Rocky Point	Yes
Martinique	Fort de France	Yes
Mexico	Acapulco	Yes
	Altamira	Yes
	Bahias de Huatulco	Yes
	Cabo San Lucas	Yes
	Campeche	Yes
	Cancun	No
	Cayo Arcas Terminal	Yes
	Ciudad del Carmen	Yes
	Coatzacoalcos	Yes
	Cozumel	Yes
	Dos Bocas	Yes
	Ensenada	Yes
	Guaymas	Yes
	La Paz	Yes
	Lazaro Cardenas	Yes
	Manzanillo	Yes
	Mazatlan	Yes
	Pichilingue	Yes
	Progreso	Yes
	Puerto Chiapas	Yes
	Puerto Juarez	No
	Puerto Morelos	No
	Puerto Vallarta	Yes
Salina Cruz	Yes	
San Jose Del Cabo	Yes	
Tampico	Yes	
Topolobampo	Yes	

COUNTRY	PORT	Adequate Coverage
	Myrtle Grove	Yes
	New Orleans	Yes
	Norco	Yes
	Palm Beach	Yes
	Panama City	Yes
	Pascagoula	Yes
	Pensacola	Yes
	Plaquemines	Yes
	Point Comfort	Yes
	Port Arthur	Yes
	Port Manatee	Yes
	Reserve	Yes
	Southwest Pass light. area	Yes
	St James	Yes
	St Rose	Yes
	Taft	Yes
	Tampa	Yes
	Texas City	Yes
	Waggaman	Yes
	Westwego	Yes
Venezuela	Amuay Bay	Yes
	Bajo Grande	Yes
	Boca Grande Terminal	No
	Catia la Mar	Yes
	Ciudad Bolivar	No
	Cumana	No
	El Guamache	Yes
	El Palito	No
	El Tablazo	No
	Guanta	Yes
	Guiria	No
	La Guaira	Yes
	La Salina	Yes

COUNTRY	PORT	Adequate Coverage
	Tuxpan	Yes
	Veracruz	Yes
	Zihuatanejo	Yes
Nicaragua	Corinto	Yes
	Puerto Sandino	Yes

COUNTRY	PORT	Adequate Coverage
	La Vela de Coro	No
	Maracaibo	No
	Matanzas	No
	Palua	No
	Pertigalete	Yes
	Puerto Cabello	No
	Puerto Jose	Yes
	Puerto la Cruz	Yes
	Puerto Miranda	No
	Puerto Ordaz	No
	Punta Cardon	Yes
	San Felix	No

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