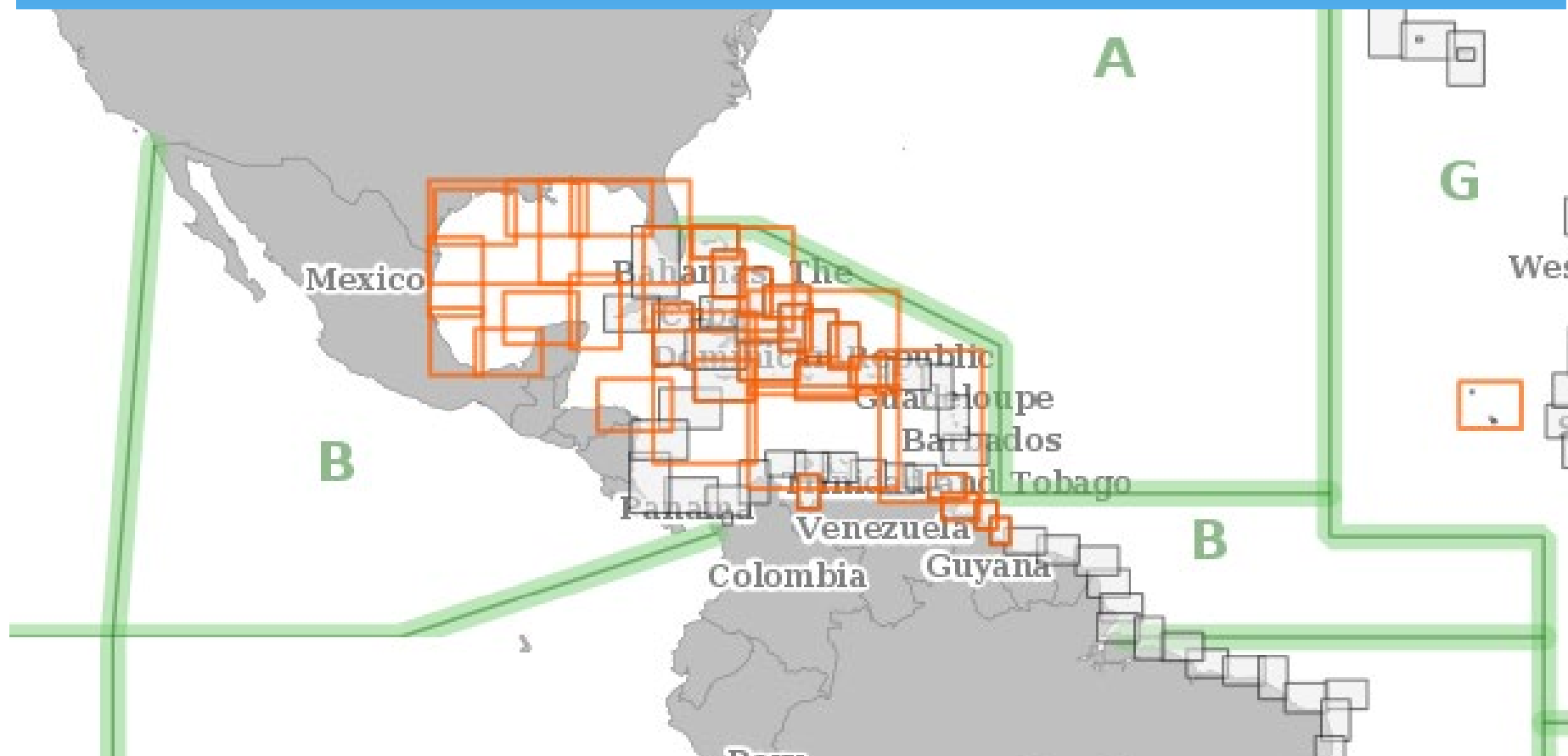




Meso American and Caribbean Sea Hydrographic Commission

MACHC International Charting Coordination (MICC)

Report 2020





Presentation Agenda

- Membership and Work Procedures
- MACHC ENC boundary
- MICC updates:
 - ENC Progress
 - INT chart progress
 - Cruise ship port analysis
- Proposal MACHC Regional ENC Scheme
- S 100 series test beds
- Work Plan 2021



Membership and Work Procedures

MICC Members :

Brazil, Colombia, Cuba, El Salvador, France, Mexico, Netherlands, Suriname, United Kingdom, United States, Venezuela, IC-ENC

Work procedures:

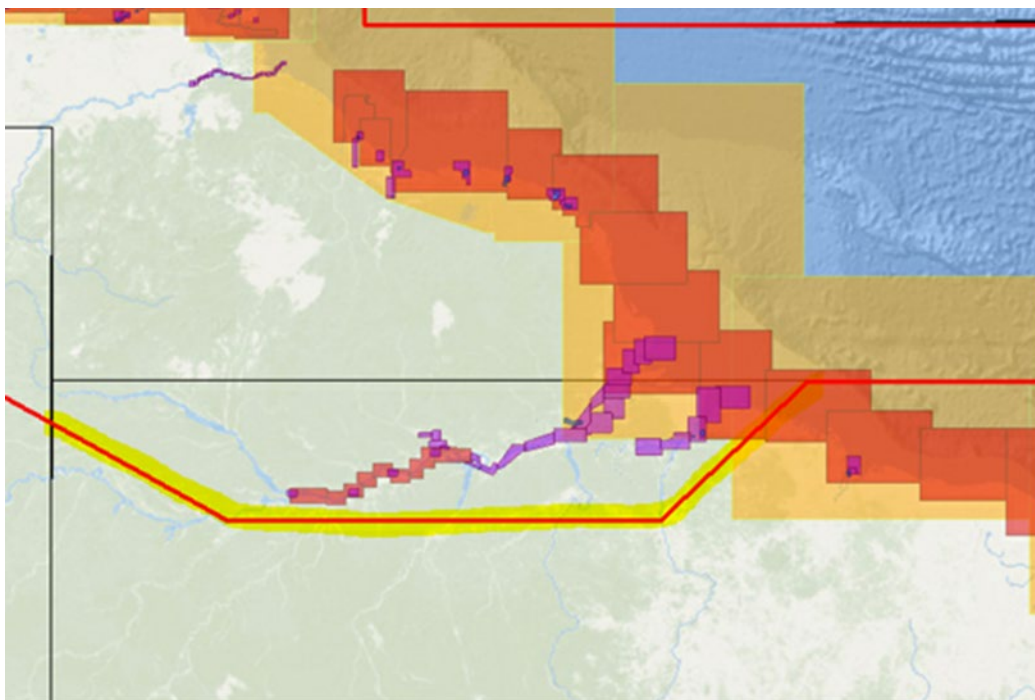
- Quarterly calls , sub working group calls, annual meeting
- Member states actively work to resolve chart overlaps
- Updates for ENC Online
- Member states provide INT Chart and ENC updates
- Member states actively work to resolve MICC related matters

The MACHC ENC boundary

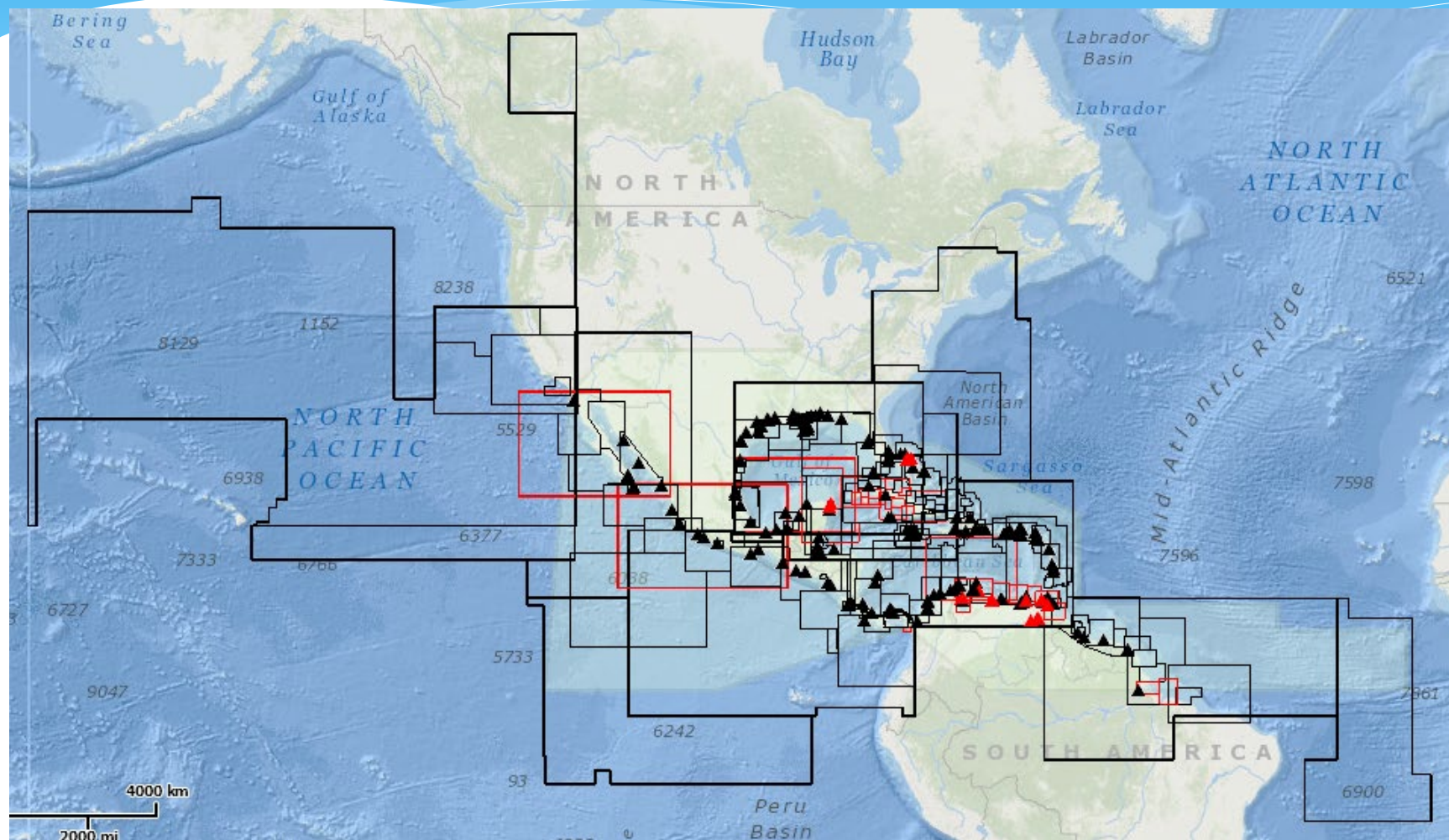
Some years ago a decision was made to extend the boundary to include parts of the Amazon river.

However Brazil has some outstanding items to be considered

Therefore the adjustment of the MACHC boundaries should be considered an ongoing MACHC action until Brazil official submission is finalized



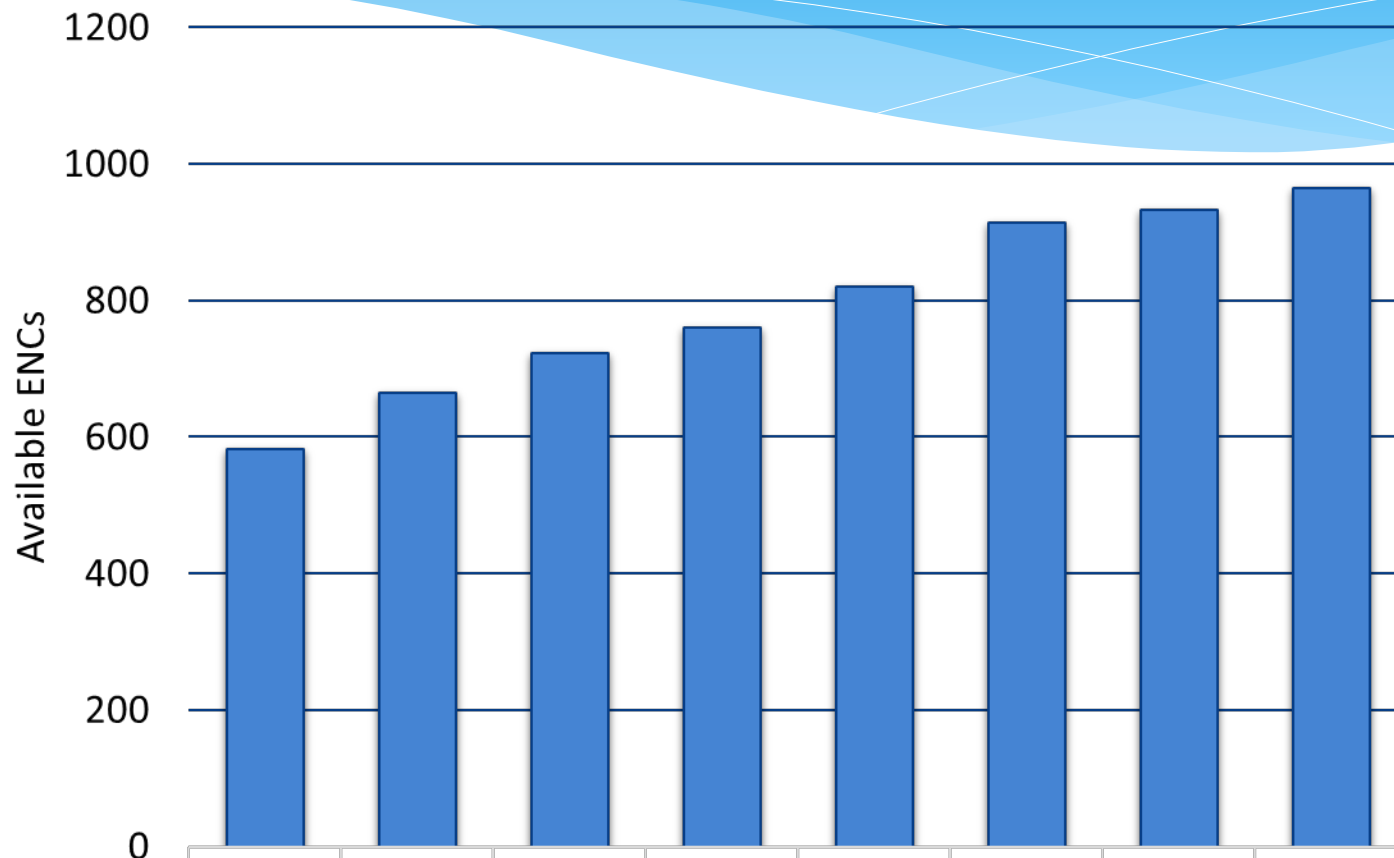
MACHC ENC's Available





MACHC ENC's Available

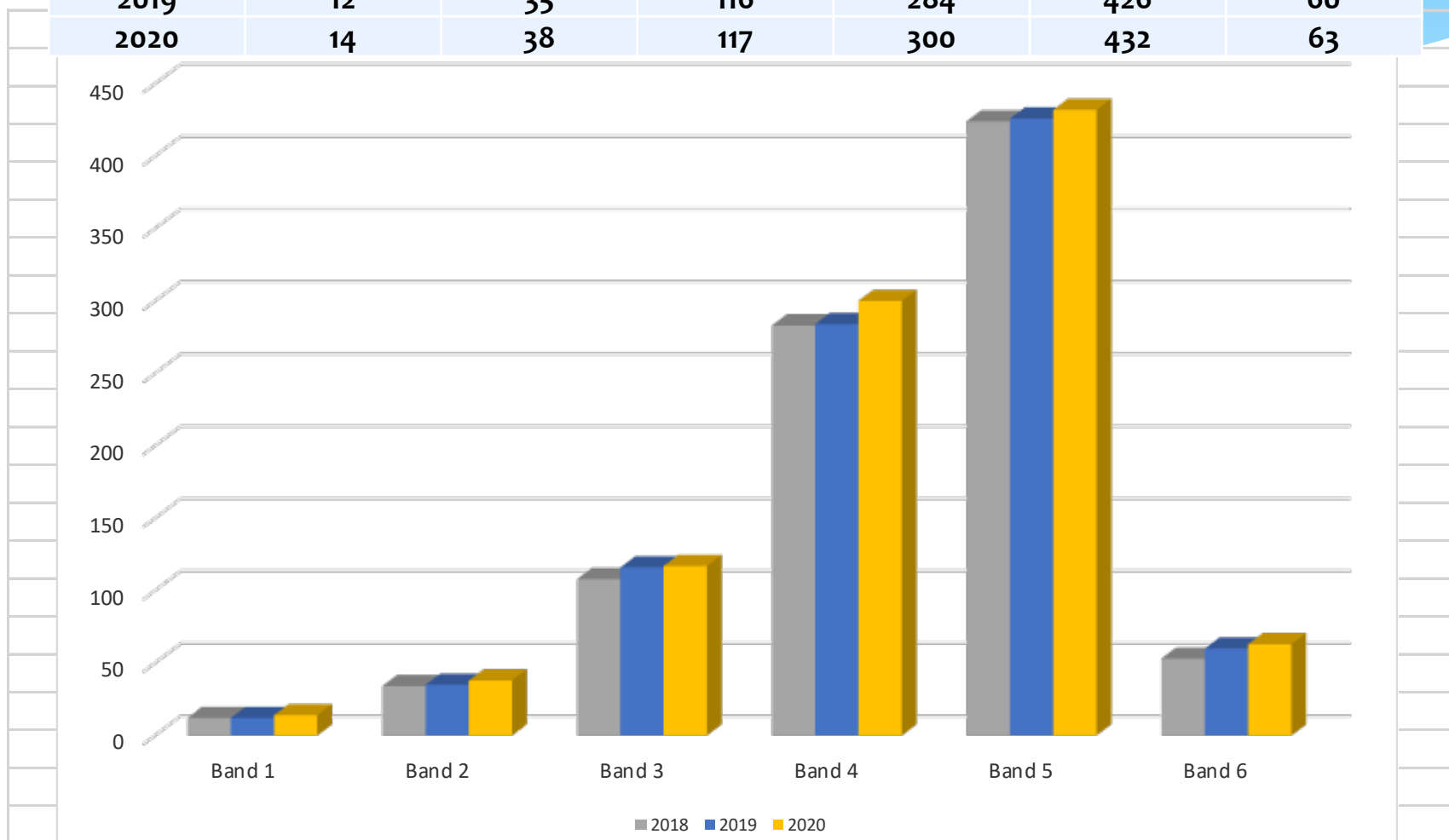
Total MACHC ENC's 2013-2020



■ Number of ENC's	2013	2014	2015	2016	2017	2018	2019	2020
	583	665	723	760	820	914	933	964

MACHC ENCs by Usage Band

	Band 1	Band 2	Band 3	Band 4	Band 5	Band 6
2018	12	34	108	283	424	53
2019	12	35	116	284	426	60
2020	14	38	117	300	432	63





INT Charts

INTERNational Chart Web Catalogue

International Hydrographic Organization INT Chart Web Catalogue Service

MANUAL DOWNLOAD



km | NM

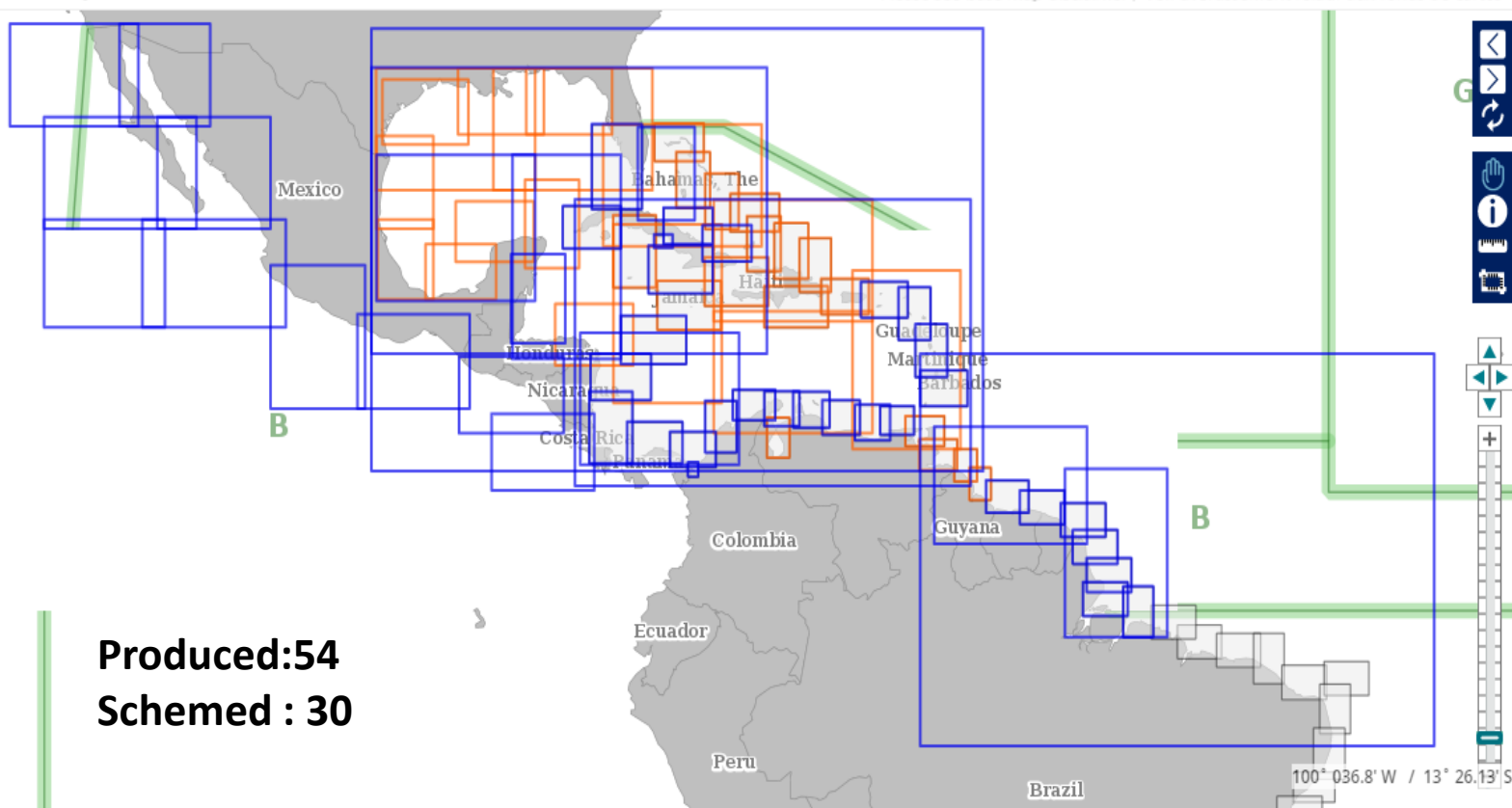
BETA

CHART SEARCH

CHART LAYER

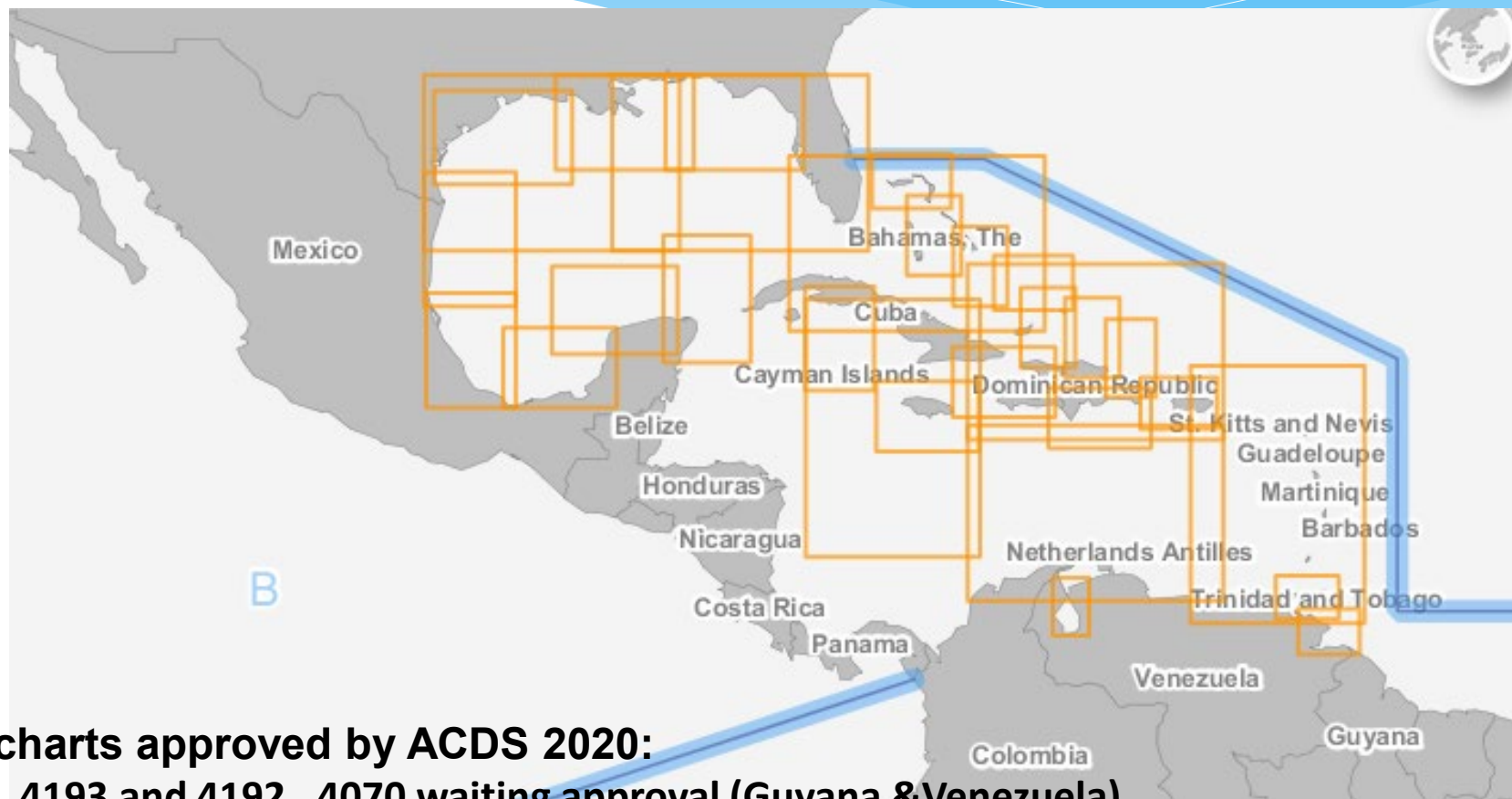
BASE MAP

Please see base map disclaimer / Voir avertissement relatif aux fonds de cartes



Produced:54
Schemed : 30

Schemed INT Charts



INT charts approved by ACDS 2020:

4196, 4193 and 4192 , 4070 waiting approval (Guyana & Venezuela)



Schemed INT Charts

Region B / 4.0.1 - OCT. 2020

INT No.	Prod.	National No.	TITLE / TITRE	CHART LIMITS / LIMITES DE LA CARTE				Date	Scale / Echelle	
				South/Sud	North/Nord	West/Ouest	East/Est		1 :	Lat
4011	CU,GB			12°10.00'N	22°15.20'N	82°19.00'W	75°9.00'W		1 000 000	
4015	US			24°6.10'N	30°30.00'N	96°0.70'W	87°30.00'W		1 000 000	
4016	US			24°6.10'N	30°30.00'N	90°15.70'W	79°45.00'W		1 000 000	
4017	CU,US			21°3.00'N	27°36.00'N	83°0.00'W	72°30.00'W		1 000 000	
4021	US			16°50.00'N	23°35.00'N	75°40.00'W	65°10.00'W		1 000 000	
4022	VE	DHN-004	Golfo de Paria a Cabo Codera e Islas Adyacentes	9°30.00'N	19°42.40'N	66°30.00'W	59°21.00'W		1 000 000	
4023	VE	DHN-005	Cabo Codera a Punta Canoa e Islas Adyacentes	10°25.00'N	17°24.00'N	75°40.00'W	65°10.00'W		1 000 000	
4100	VE	DHN-700	Delta del Orinoco	8°15.00'N	10°5.00'N	62°5.00'W	59°33.50'W		300 000	
4101	VE	DHN-600	Golfo de Paria	9°40.00'N	11°25.00'N	63°0.00'W	60°25.00'W	06/	300 000	
4112	VE	DHN-1000	Lago de Maracaibo	9°0.00'N	11°20.00'N	72°10.00'W	70°40.00'W		300 000	
4128				14°20.00'N	17°50.00'N	86°10.00'W	81°0.00'W		500 000	
4134	MX	SM 4134	Canal de Yucatan	19°50.00'N	24°40.00'N	88°10.00'W	84°35.00'W			
4138	MX	SM 4138	Banco de Campeche	20°10.00'N	23°30.00'N	92°45.00'W	87°35.00'W		500 000	
4140	MX	SM 4140	Golfo de Campeche	18°5.00'N	21°10.00'N	94°45.00'W	90°5.00'W		500 000	
4142	MX	SM 4142	Tampico a Coatzacoalcos	18°5.00'N	22°30.00'N	97°55.00'W	94°14.00'W		500 000	



Schemed INT Charts

Region B / 4.0.1 - OCT. 2020

INT No.	Prod.	National No.	TITLE / TITRE	CHART LIMITS / LIMITES DE LA CARTE				Date	Scale / Echelle	
				South/Sud	North/Nord	West/Ouest	East/Est	1st Ed/NE	1 :	Lat
4144	MX	SM 4144	Isla del Padre a Tampico	22°0.00'N	27°0.00'N	98°0.00'W	94°14.00'W		500 000	
4145	US			26°33.00'N	29°56.00'N	97°36.00'W	91°55.00'W		500 000	
4146	US			27°5.00'N	30°30.00'N	92°36.00'W	86°55.00'W		500 000	
4147	US			27°5.00'N	30°30.00'N	88°5.00'W	82°24.00'W		500 000	
4150	GB	3910	Little Bahama Bank including North West Providence Channel	25°40.00'N	27°40.00'N	79°36.00'W	76°20.00'W		300 000	
4151	GB	3912	North East Providence Channel and Tongue of the Ocean	23°10.00'N	26°9.00'N	78°10.00'W	75°55.00'W	98/12	300 000	
4152	GB	3913	Crooked Island Passage and Exuma Cound	21°59.00'N	25°0.00'N	76°15.00'W	74°2.00'W		300 000	
4156	GB	3914	Calcos Passage and Mayaguana Passage	21°51.00'N	23°55.00'N	74°35.00'W	71°20.00'W		300 000	
4160	GB	3907	Passages between Mayaguana Island and Turks and Calcos Islands including Northern Approaches to Haiti and Dominican Republic	19°39.00'N	22°42.00'N	73°29.00'W	71°14.00'W		300 000	
4162	GB	3908	Passages between Turks and Calcos Islands and Dominican Republic	19°15.00'N	22°19.00'N	71°40.00'W	69°25.00'W		300 000	
4164	GB			18°30.00'N	21°30.00'N	70°0.00'W	67°55.00'W		300 000	
4168	GB			18°45.00'N	22°45.00'N	82°20.00'W	79°30.00'W		400 000	
4172	GB		Approaches to Jamaica	16°22.00'N	19°7.00'N	79°25.00'W	75°12.00'W		400 000	
4174	GB		Windward Passage and Southern Approaches	17°43.00'N	20°26.00'N	76°17.00'W	72°4.00'W		400 000	
4176	GB			16°30.00'N	18°50.00'N	72°20.00'W	68°7.00'W		400 000	

() published as national chart / publiée en tant que carte nationale



Schemed INT Charts

Region B / 4.0.1 - OCT. 2020

INT No.	Prod.	National No.	TITLE / TITRE	CHART LIMITS / LIMITES DE LA CARTE				Date	Scale / Echelle	
				South/Sud	North/Nord	West/Ouest	East/Est	1st Ed/NE	1 :	Lat
4178	US			17°15.00'N	19°15.00'N	68°34.00'W	65°25.00'W		300 000	
4190	GY			7°36.00'N	9°30.00'N	59°46.00'W	58°15.00'W		325 000	
	GY			6°30.69'N	8°25.00'N	58°45.00'W	57°20.00'W		325 000	

() published as national chart / publiée en tant que carte nationale



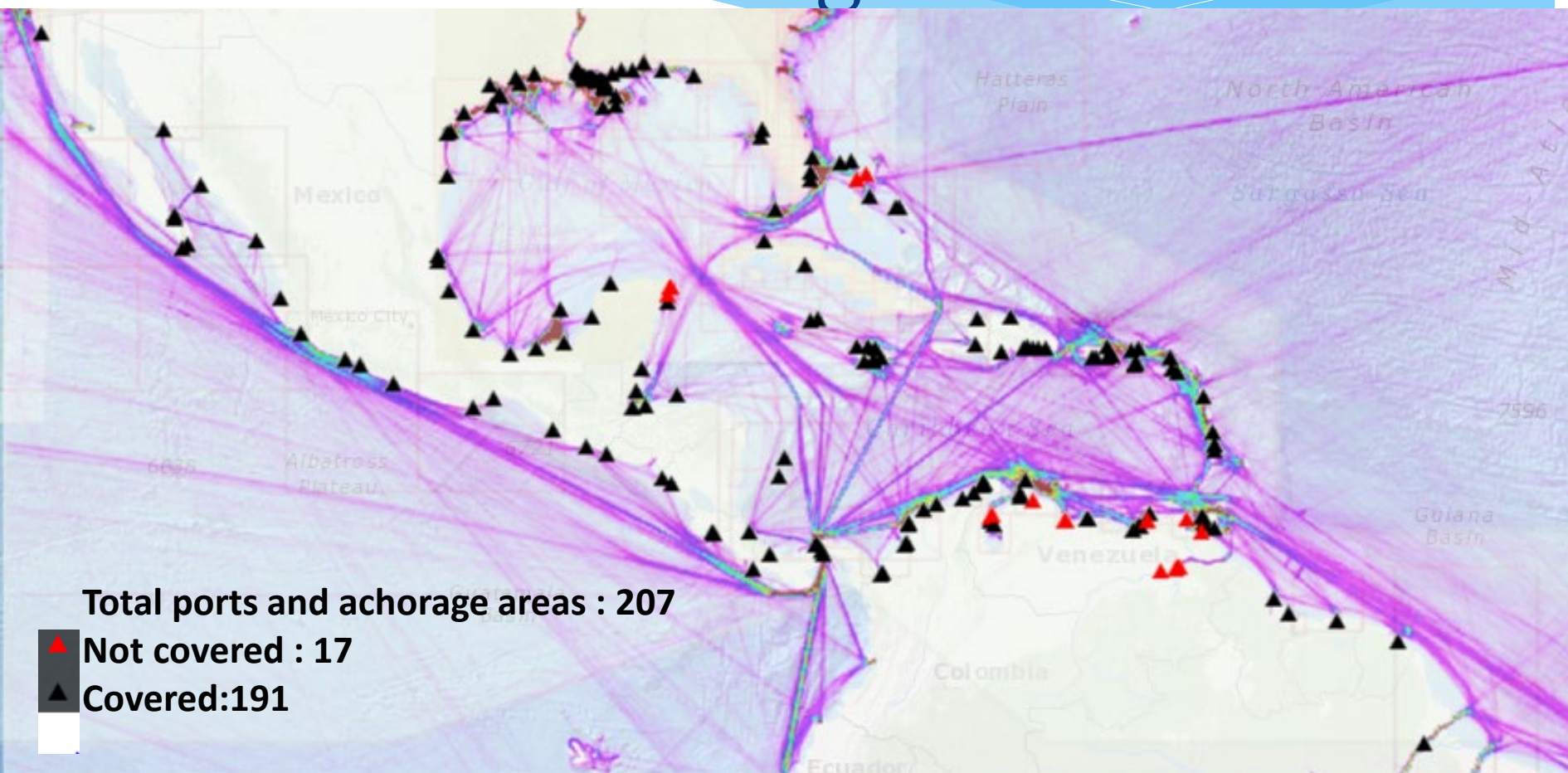
Cruise Ship Port Analysis Summary Update

- 2015 – Cruise Ship Ports Gap Analysis identified 43 ports in MACHC region with no large scale ENC coverage
- 2016 – Two large scale ENC's cover gaps in Cuba and VZ
- 2017/2018 – 12 New large scale ENC's cover gaps in VZ, Bahamas, Cuba, St. Vincent & Grenadines, Trinidad; total down to 29 ports from 43
- 2018/2019- anchorage areas were included making the area in total 92 and currently only 32 not covered

2019-2020 - total 191 and currently only 17 not covered

The cruise ship port gap list is on the MACHC- MICC webpage for member states and associated members to fill the Gaps

Cruise Ship Ports and anchorage areas with Large Scale ENC





Cruise ship port and anchorage gaps 2020



COUNTRY	PORT	LATITUDE	LONGITUDE	Current La	_ENC	Additional
Bahamas	Great Stirrup Cay	25.83333	-77.916667	UB 3	Priority Port identified, no planned ENC's band 4, 5 or 6 coverage?	No knowledge of a requirement (from cruise company or other user)
Bahamas	Coco Cay (Little Stirrup Cay)	25.821	-77.941	UB 3	Priority Port identified, no planned ENC's band 4, 5 or 6 coverage?	Also known as Little Stirrup Cay; I am aware that construction has started for a pier and dredging will be taking place. No large scale data available yet. The cruise company may well supply the survey data(?)
Belize	Vicinity of Lighthouse Reef	17.20032	-87.55157471	UB 3	No planned ENC's band 4, 5 or 6 coverage?	New lidar survey data received for The Narrows: no knowledge of requirement for ENC for cruise company
Costa Rica	Bahia Coco	10.56348	-85.70440674	UB 2	No planned ENC's band 4, 5 or 6 coverage?	US PCA -Agreement is on the way to work out these ENC's.
Costa Rica	Puerto de Quepos	9.415894	-84.17480469	UB 2	No planned ENC's band 4, 5 or 6 coverage?	
Costa Rica	Vicinity of Drake Bay	8.692322	-83.70721436	UB 2	No planned ENC's band 4, 5 or 6 coverage?	
Costa Rica	Vicinity of Dos Rios	8.65448	-83.2678833	UB 3	No planned ENC's band 4, 5 or 6 coverage?	
Costa Rica	Drake Bay	8.69989	-83.67089844	UB 2	No planned ENC's band 4, 5 or 6 coverage?	
Costa Rica	Vicinity of Playa Posa Colorado	9.788696	-84.90991211	UB 3	No planned ENC's band 4, 5 or 6 coverage?	
Costa Rica	Vicinity of Isla Tortuga	9.776489	-84.88800049	UB 3	No planned ENC's band 4, 5 or 6 coverage?	
Costa Rica	Herradura Bay	9.645508	-84.668396	UB 3	No planned ENC's band 4, 5 or 6 coverage?	
Costa Rica	Potrero Bay	10.44733	-85.784729	UB 2	No planned ENC's band 4, 5 or 6 coverage?	
Costa Rica	Culebra Bay	10.5979	-85.65789795	UB 2	No planned ENC's band 4, 5 or 6 coverage?	
Cuba	Isla de la Juventud	21.59888	-83.18450928	UB 3	Planned ENC's band 4	Band 4 coverage pending IC-ENC validation Nov. 2017
Dominican Republic	Isla Catalina	18.36328	-69.02758789	UB 3	No planned ENC's band 4, 5 or 6 coverage?	
Dominican Republic	Boca de Chavon, La Romana	18.39172	-68.90509033	UB 3	No planned ENC's band 4, 5 or 6 coverage?	



Cruise ship port and anchorage gaps 2020



Mexico	Isla Carmen	25.85229	-111.1923828	UB 2	<i>Planned ENC's band 4 and 5.</i>	
Mexico	Isla Carmen	25.97693	-111.0491943	UB 2	<i>Planned ENC's band 4 and 5.</i>	
Mexico	Puerto Escondido	25.81152	-111.3070068	UB 2	<i>Planned ENC's band 4 and 5.</i>	
Mexico	Puerto Agua Verde	25.5321	-111.081604	UB 2	<i>Planned ENC's band 4.</i>	
Mexico	Isla Partida	24.56409	-110.4078979	UB 2	<i>Planned ENC's band 4.</i>	
Mexico	Isla Espirito Santo	24.46033	-110.3181152	UB 2	<i>Planned ENC's band 4.</i>	
Nicaragua	Islas del Maiz	12.1535	-83.07427979	UB 3	No planned ENC's band 4, 5 or 6 coverage?	
Panama	Isla de Coiba	7.630493	-81.72369385	UB 3	No planned ENC's band 4, 5 or 6 coverage?	At the moment there is nothing larger than band 3
Panama	Isla Parida	8.116882	-82.315979	UB 3	No planned ENC's band 4, 5 or 6 coverage?	
Panama	Isla Pacheca	8.666687	-79.06408691	UB 3	No planned ENC's band 4, 5 or 6 coverage?	
Panama	Isla de Coiba	7.587891	-81.71270752	UB 3	No planned ENC's band 4, 5 or 6 coverage?	
Saint Vincent and the Grenadines	Union Island Chatham Bay (Carriacou)	12.60132	-61.45330811	UB 3	No planned ENC's band 4, 5 or 6 coverage?	New lidar data expected early 2017.
Venezuela	Boca Grande Terminal	9.95	-61.583333	UB 3	<i>Covered by band 3 VE ENC</i>	<i>This is a storage vessel location between VE & TT. Although not a port the band 3 VE ENC provides coverage but with little underlying survey data.</i>
Venezuela	Matanzas	8.283333	-62.85	None	<i>Covered by VE400274</i>	
Venezuela	Boca Grande (Orinoco River)	8.512878	-61.04559326	UB 3	<i>Covered by VE400709</i>	
Venezuela	Boca Grande (Orinoco River)	8.582703	-60.98498535	UB 3	<i>Covered by VE400708</i>	



Regional ENC Scheme

Report by MICC sub working group M.R.E.S.
let by Leonardo Tun Humbert, Mexico.



S 100 series test beds

Netherlands: S-102 (Bathymetry)

USA: S-111 (surface currents)

France: S-122 (marine protected areas)

Further detail will be provided at MACHC 22 (input from MS)



Work Plan 2021



ANNEX C – WORK PLAN MILESTONES 2021

DELIVERY DATE (2021)	ACTIONS	
	Electronic Chart Activities	INT Chart Activities
Jan 1 – Feb 29	Member States to provide updates based on discussions, and consideration of the individual Ports Analysis presented at the November 30 th , 2020 MICC meeting on plans to address ENC coverage within their area.	Member States to provide updates based on discussions, and consideration of the individual Ports Reports presented at the November 30 th , 2020 MICC on plans.
Feb 26 - 28	Represent MACHC at WEND WG	
March 25	In preparation for the quarterly Conference Call, Member States to provide updates to: - the list of available ENCs - resolutions of any gaps/overlaps identified. - the standardized regional ENC scheme - CATZOC information - S-100 test beds - S-122 Marine protected areas and S-123 Marine Radio services dataset contribution - Product Specification development participation	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
April 13	Hold quarterly conference call to assess status and next steps.	
May 4	Complete follow-up activities from Conference Call. Member States to provide all additional information identified during conference call.	
June 15	In preparation for the quarterly Conference Call, Member States to provide updates to: - the list of available ENCs - resolutions of any gaps/overlaps identified. - the standardized regional ENC scheme - CATZOC information - S-100 test beds	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



Work Plan 2021



DELIVERY DATE (2021)	ACTIONS	
	Electronic Chart Activities	INT Chart Activities
	- S-122 Marine protected areas and S-123 Marine Radio services dataset contribution - Product Specification development participation	
July 13	Hold quarterly conference call to assess status and prepare information as needed for subsequent communication to IRCC and IHB.	
July 27	Complete follow-up activities from Conference Call. Member States to provide all additional information identified during conference call.	
Aug 31	Investigate and/or track issues regarding consistencies and availability of ENC's and the corresponding INT (paper) Charts if problems persist.	
Sept 10		MS to forward S-11 updates to MICC technical coordinator for inclusion for Region B, S-11.
Sept 17		MICC technical coordinator to forward S-11 updates to IHB, to include Pacific INT scheme.
Oct 12	In preparation for the quarterly Conference Call, Member States to provide updates to: - the list of available ENC's - resolutions of any gaps/overlaps identified. - the standardized regional ENC scheme - CATZOC information - S-100 test beds - S-122 Marine protected areas and S-123 Marine Radio services dataset contribution - Product Specification development participation	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
Oct 22	Hold quarterly follow-up conference call to update/review and discuss MS input in preparation of 21st MACHC.	
Nov 9	Complete follow-up activities from Conference Call. Member States to provide all additional information identified during conference call.	
Nov 16	Provide all updates, to the Technical Coordinator for the MICC Report to 22 ND MACHC.	
Dec 2020	Provide update on 2021 MICC activities/accomplishments	



Requests to MACHC members and associate members

- * Note the MICC Report
- * Approve the MICC 2021 Work Plan
 - with particular focus on submission of INT Chart submission to IHO Web Catalogue (<http://chart.iho.int:8080/iho/main.do>) and maintenance of ENC schemes using INTToGIS II
- * Endorse the proposed approach for a standardized regional ENC Scheme (to be presented by MICC Subgroup Chair, Mexico)



Thank You