25th Conference of the Meso American - Caribbean Sea Hydrographic Commission

MACHC International Chart Coordination (MICC) Working Group - December 2024 Meeting

MICC CHAIR: Bernice Mahabier

Vice Chair: Julio Castillo





1) Meeting Commences

- 1) Meeting Commences
 - a) Welcome / Introductions
 - b) Approval of the Agenda and Minutes
 - c) Review List of Actions
- 2) Organizational / Admin Topics
 - a) MICC Membership Update
 - b) Administrative Actions
- 3) Electronic Charts
 - a) Updates / resolutions of overlaps in ENC coverage
 - b) Overlap Report IC-ENC ENC on-Line Update
 - c) Update on regional ENC scheme: UB2
 - d) MICC portal discussion: not consistent with IHO portal
- 4) INT Charts

International Hydrographic

- a) Updates about Current Coverage
- b) Submission of INT Charts to INT Chart Coordinator

- 5) S-100 Developments & Support
 - a) a. Status of preparations to provide S-1xx datasets by 2026 with reference to WEND WG CL 02/2024 Request MICC members to submit their response
 - b) RHCs to establish an S-100 Coordinator role Request MICC members to review draft TOR, ROP and Workplan of the MACHC International S100 Coordination Working Group (MISC)
 - c) Presentation of the Maritime Digital Products
 Development Plan by the Bolivarian Republic of
 Venezuela
- 6) Any Other Business
 - a) Approval of MICC workplan 2025
 - b) Approval of MICC Chair and request interest for Vice Chair position
- 7) Adjourn





1) Meeting Commences

- 1) **Meeting Commences**
 - Welcome / Introductions a)
 - **Approval of the Agenda and Minutes** b)
 - **Review List of Actions**
- 2) Organizational / Admin Topics
 - MICC Membership Update a)
 - b) **Administrative Actions**
- 3) **Electronic Charts**
 - Updates / resolutions of overlaps in ENC coverage a)
 - Overlap Report IC-ENC ENC on-Line Update b)
 - Update on regional ENC scheme: UB2 c)
 - d) MICC portal discussion: not consistent with IHO portal
- 4) **INT Charts**
 - **Updates about Current Coverage** a)
 - Submission of INT Charts to INT Chart Coordinator b)

- 5) S-100 Developments & Support
 - a. Status of preparations to provide S-1xx datasets by a) 2026 with reference to WEND WG CL 02/2024 Request MICC members to submit their response
 - b) RHCs to establish an S-100 Coordinator role Request MICC members to review draft TOR, ROP and Workplan of the MACHC International S100 Coordination Working Group (MISC)
 - Presentation of the Maritime Digital Products c) Development Plan by the Bolivarian Republic of Venezuela
- 6) **Any Other Business**
 - Approval of MICC workplan 2025 a)
 - b) Approval of MICC Chair and request interest for Vice Chair position
- 7) Adjourn







1) Meeting Commences

- 1) Meeting Commences
 - a) Welcome / Introductions
 - b) Approval of the Agenda and Minutes
 - c) Review List of Actions

Annex A SUMMARY OF ACTIONS

	"New" General & Administrative Actions from the Oct 11, 2024 virtual meeting									
#	# Action Who									
1	Call for candidates for vacant positions Chair and Vice Chair MACHC International Charting Coordination (MICC) Working Group with reference to MICC Letter 01/2023	All MS	Vice Chair position is still vacant							

	Electronic Charts Updates/resolutions of overlaps in ENC coverage meeting	from the Oct 1	1, 2024 virtual
	Action	Who	Status
2	Overlap between NOAA, Mexican Hydrographic Office in the Gulf of Mexico (Band 2 ENCs)	US, Mexico	ongoing
3	Overlap between NOAA and UKHO East of Florida (Band 4 ENCs)	US, UKHO	ongoing

	Standardization of regional ENC Schemes Actions from the April 19, 2024 virtual										
#	Action	Who	Status								
4	Member states are encouraged to submit planned ENC schemes in a specific format (to be determined) for the MACHC region to promote consistency and avoid overlap.	All MS	ongoing								
5	For the planning of the regional scheme for usage band 2 a circular letter would be sent to other member states for a better understanding of the needs in the region.	Chair and MRES WG	ongoing								

	S-100 Developments & Support from the Oct 11, 2024 virtual meeting										
#	Action	Who	Status								
6	Review status from last year and provide feedback of the WEND WG CL 02/2024- Status of preparations to provide S-1xx datasets by 2026	All MS	Deadline 31 Oct 2024								
7	Member states are encouraged to follow the progress of INToGIS III that will be released early 2025	All MS	Ongoing								
8	Questionnaire on training needs to be distributed to member states.	Chair	Ongoing to discuss with CB coordinator								
9	Review and provide feedback on the Draft Work Plan, TOR and ROP in Support of Regional Production of S-101 Products	All MS	Deadline 31 Oct 2024								
10	Call for candidates for vacant positions Chair and Vice Chair MACHC International S-100 Coordination (MISC) Working Group with reference to MICC Letter 02/2024	All MS	Deadline 31 Oct 2024								

Any other business from the April 19, 2024 virtual meeting							
#	Action	Who	Status				
11	Status updating MICC portal in line with INToGIS III	Vice Chair	ongoing				





2) Organizational / Admin Topics

- MICC Membership Update
- Administrative Actions



MESO AMERICAN & CARIBBEAN SEA HYDROGRAPHIC COMMISSION (MACHC)



MACHC International Chart Coordination Working Group (MICC)

MICC Membership Contact Information

Updated: November 2024

	-	
Country	Member	Email
Brazil	Christopher Florentino	christopher@marinha.mil.br
Colombia	David Mina	dmina@dimar.mil.co
	Olga Bonfante	obonfante@dimar.mil.co
	Diana Sánchez	ciohshn@dimar.mil.co
	Dagoberto David Viteri	ddabid@dimar.mil.co
		ddavidviteri@gmail.com
<mark>Cuba</mark>	Yoenis Ferrer Oliva	hq@unicom.co.cu
	Iván Kárel Sosa Chongo	avisosshg@emarinos.geocuba.cu
	Victor Emilio Aluija Urgell	aluijadg@emarinos.geocuba.cu
Dominican Republic	Capitán de Fragata Primitivo López	dir.hidrografico@academianaval.edu.do
France	Gabin Sogorb	dmi-rex@shom.fr
	Nicolas David	nicolas.david@shom.fr
<u>Guatemala</u>	Diego Mendez Porta	hidrografia@dgam.gob.gt
		diegofer527@gmail.com
Guyana		
<mark>Jamaica</mark>	Diego Billings	diego.billings@nla.gov.jm
	Shari Bowen-Robinson	shari.bowenrobinson@nla.gov.jm
Mexico	Israel Beltrán Hernández	direccion.hidrografia.mexico@gmail.com
	Orlando Márquez Rangel	asunext.hidro@gmail.com
	Felipe Ortiz Soto	depto.ayudas.nav@gmail.com
	<u>Eloísa</u> Peña Pedraza	depto.cartografia@gmail.com
	Mario Antonio Martinez Hérnandez	slh.decolo@gmail.com
	Eliot Ramírez <u>Hérnandez</u>	subhidroycartomx@gmail.com
Netherlands	Jan Schaap	j.schaap.01@mindef.nl
Suriname	Bernice <u>Mahabier</u>	bmahabier@mas.sr
	Nancy Yang	nyang@mas.sr
Trinidad and Tobago		
United Kingdom	Robert Wheeler	robert.wheeler@ukho.gov.uk
	Lee Truscott	lee.truscott@ukho.govu.uk
United States	Julio Castillo	julio.castillo@noaa.gov
Venezuela	Jose Bencomo	jbencomof@gmail.com

Associate Members

Country	Member	Email
Antigua and Barbuda		
Barbados		
Belize		
Costa Rica		
El Salvador	Mario Miranda	mmiranda@amp.gob.sv
Grenada		
Haiti		
Honduras		
Nicaragua		
Panama		
Saint Lucia		
Saint Kitts and Nevis		
Saint Vincent and the Grenadines		

Observers

Country	Member	Email
Dominica		
Spain		

Contributing Organizations

Organization	Member	Email
IC-ENC	James Harper	james.harper@ic-enc.org
	Dan Garrett	dan garrett@ic-enc.org





2) Organizational / Admin Topics

- MICC Membership Update
- Administrative Actions

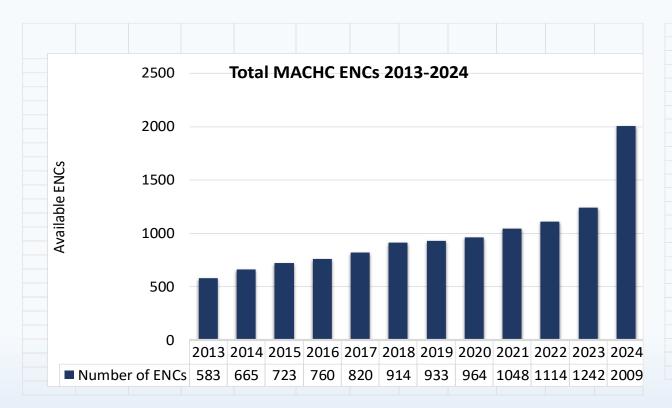
Candidates requested for MICC Vice Chair

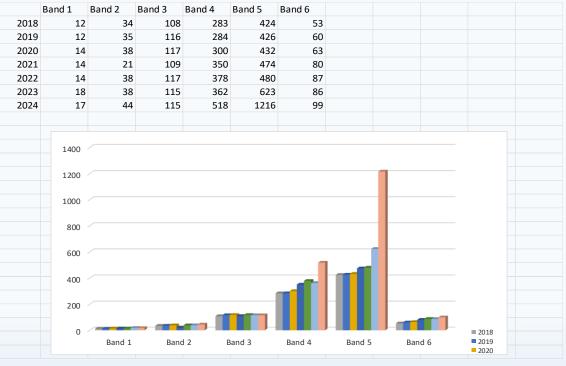
- Roles and Responsibilities
 - Assisting MICC Chair in conducting quarterly meetings
 - Updating meeting documents
 - Keeping meeting minutes
 - Forwarding MICC correspondence as appropriate between MS, Chair, and MACHC Secretariat





- a) Updates / resolutions of overlaps in ENC coverage
- b) Overlap Report IC-ENC ENC on-Line Update
- c) Update on regional ENC scheme: UB2
- d) MICC portal discussion: not consistent with IHO portal

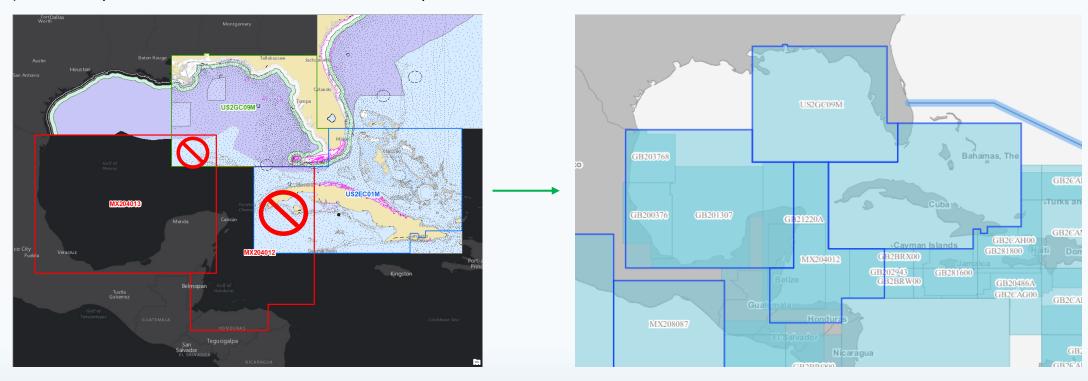








- a) Updates / resolutions of overlaps in ENC coverage
- b) Overlap Report IC-ENC ENC on-Line Update
- c) Update on regional ENC scheme: UB2
- d) MICC portal discussion: not consistent with IHO portal

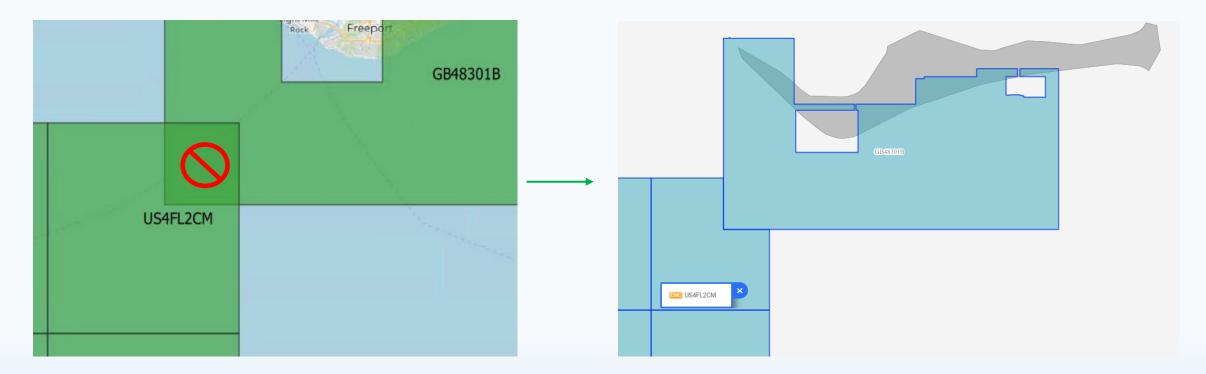








- a) Updates / resolutions of overlaps in ENC coverage
- b) Overlap Report IC-ENC ENC on-Line Update
- c) Update on regional ENC scheme: UB2
- d) MICC portal discussion: not consistent with IHO portal







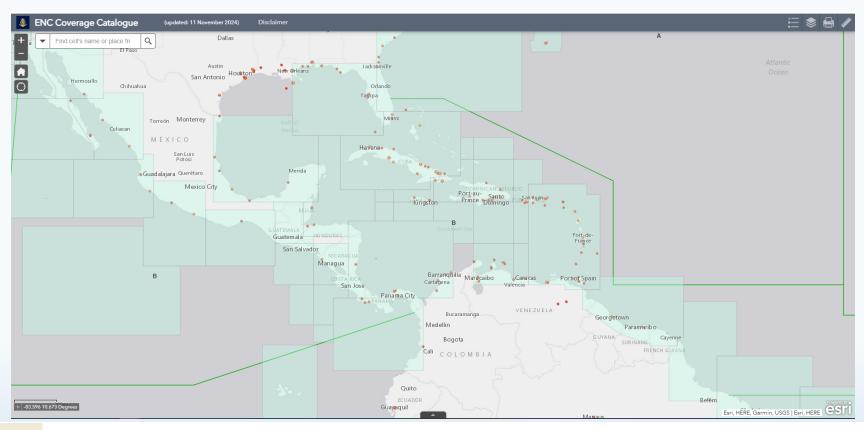
- a) Updates / resolutions of overlaps in ENC coverage
- b) Overlap Report IC-ENC ENC on-Line Update
- c) Update on regional ENC scheme: UB2
- d) MICC portal discussion: not consistent with IHO portal

								IC-EN	C REG	IONAL	HYDROGR	APHIC CO	MMISSION OVERLAP REPORT - MACHC	RHC - NOVEMBER 2024
ID	STATUS	RENC Membership	RHC	ENC 1	ENC 2	Usage Band	ENC 1 Scale	ENC 2 Scale	ENC 1 Edn	ENC 2 Edn	Overlap extent (Kmxkm) (m/square NM)	Impact Assessment	Justification	Action requested
990	LIVE	IC-ENC	MACHC	VE300200	VE300100	3	180000	180000	2	2	5m x 165Km	LOW	Same producer overlap	Remove overlap
173	ACCEPT	IC-ENC	MACHC	PA3AM929	CO300023	3	180000	180000	6	1	1m x 9.9Km	ACCEPT	Overlap is over land	
627	RESOLVED	IC-ENC	MACHC	BR304025	BR304027	3	90000	90000	1	1	30km x 1 km	RESOLVED		No Action Required
374	RESOLVED	IC-ENC	MACHC	BR321400	BR321200	3	180000	180000	1	2		RESOLVED		No Action Required
1283	RESOLVED	IC-ENC	MACHC	BR400222	BR400202	4	45000	45000	1	2		RESOLVED		No Action Required
1284	RESOLVED	IC-ENC	MACHC	BR400222	BR400203	4	45000	45000	1	3		RESOLVED		No Action Required
1285	RESOLVED	IC-ENC	MACHC	BR400222	BR400204	4	45000	45000	1	10		RESOLVED		No Action Required
903	RESOLVED	IC-ENC	MACHC	BR501625	BR501636	5	12000	12000	1	7	5.8Km X 5Km	RESOLVED		No Action Required
620	RESOLVED	IC-ENC	MACHC	CO400109	CO400502	4	22000	45000	1	1	23km x 1.7	RESOLVED		No Action Required
952	RESOLVED	IC-ENC	MACHC	CO400419	CO400662	4	45000	45000	1	2	21kM X 3kM	RESOLVED		No Action Required
1286	RESOLVED	IC-ENC	MACHC	CO500254	CO500253	5	12000	12000	3	11		RESOLVED		No Action Required
399	RESOLVED	IC-ENC	MACHC	CU311428	US3FL30M	3	90000	466940	1	33	46Km x 1.7Km (21 sq NM)	RESOLVED		No Action Required
132	RESOLVED	IC-ENC	MACHC	CU511830	GB500414	5	8000	8000	1	4	Full overlap	RESOLVED		No Action Required
634	RESOLVED	IC-ENC	MACHC	EC300100	CO300310	3	90000	90000	1	1	62.10x6.1 km	RESOLVED		No Action Required
280	RESOLVED	IC-ENC	MACHC	GB201029	MX208081	2	700000	700000	1	1		RESOLVED		No Action Required
439	RESOLVED	IC-ENC	MACHC	GB202943	GB281600	2	700000	350000	1	6	Unmeasurable	RESOLVED		No Action Required
988	RESOLVED	IC-ENC	MACHC	GB203768	US3GC01M	2/3	350000	350000	1	36	Upto 90m x 95Km	RESOLVED		No Action Required
281	RESOLVED	IC-ENC	MACHC	GB21017N	MX208081	2	700000	700000	2	1		RESOLVED		No Action Required
279	RESOLVED	IC-ENC	MACHC	GB21017S	MX208081	2	700000	700000	2	1		RESOLVED		No Action Required
389	RESOLVED	IC-ENC	MACHC	GB300260	CO300020	3	180000	180000	2	1	78.7NM x 23.5 NM	RESOLVED		No Action Required
527	RESOLVED	IC-ENC	MACHC	GB502079	GB520796	5	12000	12000	1	1	DUPLICATE CELL	RESOLVED		No Action Required
528	RESOLVED	IC-ENC	MACHC	GB52047A	GB502047	5	12000	12000	1	1	DUPLICATE CELL	RESOLVED		No Action Required
460	RESOLVED	IC-ENC	MACHC	MX208080	GB201029	2	700000	700000	1	2	557.8km x 467.7Km	RESOLVED		No Action Required
344	RESOLVED	IC-ENC	MACHC	MX208082	GB201027	2	700000	700000	1	3		RESOLVED		No Action Required
345	RESOLVED	IC-ENC	MACHC	MX208082	GB201028	2	700000	700000	1	2		RESOLVED		No Action Required
346	RESOLVED	IC-ENC	MACHC	MX208082	GB201029	2	700000	700000	1	2		RESOLVED		No Action Required
347	RESOLVED	IC-ENC	MACHC	MX208082	GB21017N	2	700000	700000	1	2		RESOLVED		No Action Required
348	RESOLVED	IC-ENC	MACHC	MX208082	GB21017S	2	700000	700000	1	2		RESOLVED		No Action Required
349	RESOLVED	IC-ENC	MACHC	MX208083	GB201027	2	700000	700000	1	3		RESOLVED		No Action Required
250		IO ENO	моче	MY20000	CD204020		700000	700000	1			DECOLVED		No Astion Doguizad
4	OVERLAP REPORT - Nov24 Report definitions 🕒													





- a) Updates / resolutions of overlaps in ENC coverage
- b) Overlap Report IC-ENC ENC on-Line Update
- c) Update on regional ENC scheme: UB2
- d) MICC portal discussion: not consistent with IHO portal



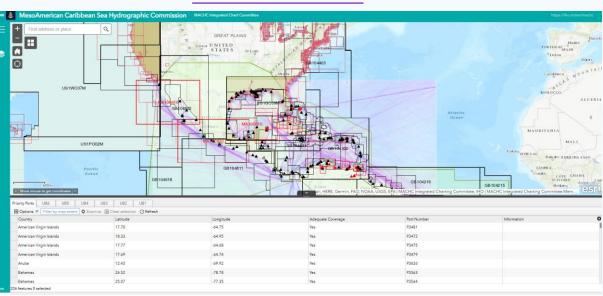




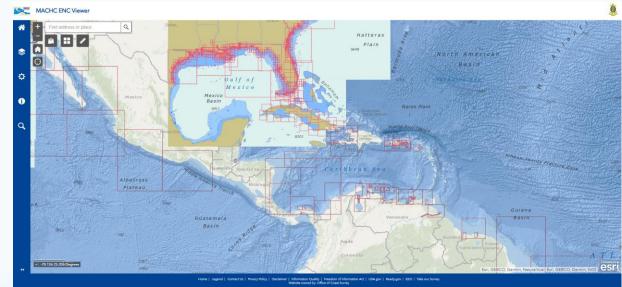


- a) Updates / resolutions of overlaps in ENC coverage
- b) Overlap Report IC-ENC ENC on-Line Update
- c) Update on regional ENC scheme: UB2
- d) MICC portal discussion: not consistent with IHO portal

MICC ENC Viewer



MACHC ENCOnline Viewer



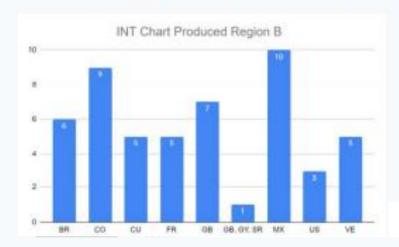




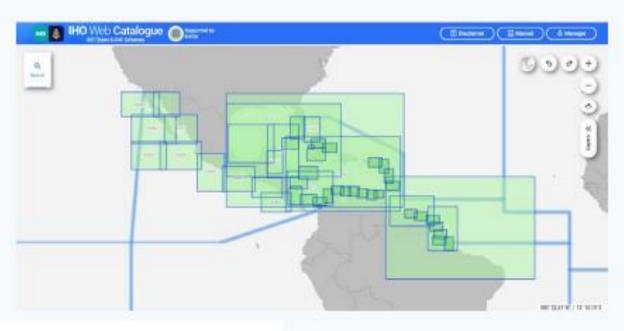
4) INT Charts

- a) Updates about Current Coverage
- b) Submission of INT Charts to INT Chart Coordinator

- No pending submissions
- No updates on current coverage.



Total 51 INT Charts Produced Total 33 INT Charts Schemed



INT Chart Schemed Region B







- a) Status of preparations to provide S-1xx datasets by 2026 with reference to WEND WG CL 02/2024 Request MICC members to submit their response
- b) RHCs to establish an S-100 Coordinator role
 Request MICC members to review draft TOR, ROP and
 Workplan of the MACHC International S100
 Coordination Working Group (MISC)
- c) Presentation of the Maritime Digital Products
 Development Plan by the Bolivarian Republic of
 Venezuela

No update since 2023 – request to MS who have not responded to please submit a response

9 MS responded Including PCA's3 MS have no S100 plan

Requesting S100 producers to submit their response to WENDWG CL 02/2024

Members:	response	no response	PCA/ S57 prod
Brazil	х		
Colombia	х		
Cuba		х	
Dominican Republic	x		UKHO Grid
France	x		
Guatemala		x	
Guyana	x		UKHO Grid
Jamaica	x		UKHO Grid
Mexico	x		
Netherlands	x (incl. ov	erseas terr.)	
Suriname	x		UKHO Grid
Trinidad and Tobago	x		UKHO Grid
United Kingdom	x		UKHO Grid
United States	x		
Venezuela		x	
Associate Members:	response	no response	PCA/ S57 prod
Antigua and Barbuda	x		UKHO Grid
Barbados	x		UKHO Grid
Belize	x		UKHO Grid
Costa Rica	<u> </u>	x	OKITO CITA
El Salvador		x	
Grenada	х		UKHO Grid
Haiti	x	x	
Honduras	x	x	
Nicaragua	x	x	
Panama	x		UKHO Grid
Saint Lucia	х		UKHO Grid
Saint Kitts and Nevis	х		UKHO Grid
St. Vincent &			
Grenadines	x		UKHO Grid





- a) Status of preparations to provide S-1xx datasets by 2026 with reference to WEND WG CL 02/2024 Request MICC members to submit their response
- b) RHCs to establish an S-100 Coordinator role
 Request MICC members to review draft TOR, ROP and
 Workplan of the MACHC International S100
 Coordination Working Group (MISC)
- c) Presentation of the Maritime Digital Products
 Development Plan by the Bolivarian Republic of
 Venezuela

Findings 2023

- Most MS will have the S100 ready by 2026 and 2027
- 3 MS have no S100 plan
- Most MS are focused on S101 and 102, other S100 products will be produced by 2030 or not included in their plan
- MS requested support in production (production systems) and distribution
- There are trials in progress

Recommendations based on the findings;

- Establish a S100 working group or groups
- Develop a S100 roadmap for the region, the need for capacity building and knowledge sharing is essential







- a) Status of preparations to provide S-1xx datasets by 2026 with reference to WEND WG CL 02/2024 Request MICC members to submit their response
- b) RHCs to establish an S-100 Coordinator role
 Request MICC members to review draft TOR, ROP and
 Workplan of the MACHC International S100
 Coordination Working Group (MISC)
- c) Presentation of the Maritime Digital Products
 Development Plan by the Bolivarian Republic of
 Venezuela

The <u>IHO S-100 Resources</u> page is the best place to look for Testbed Programmes, current status of Phase 1 Product Specifications, S-100 viewers and converters, and test datasets.

Testbed Programmes

Name	Contributors	Related standards	Information	Contact
KHOA S-100 Testbed	Rep.of Korea	S-98, S-1xx		Iji KIM
IHO-Singapore Lab	Singapore	S-101, S-102	LINK	Parry Oei
S-100 Across the channel	France, UK	S-101, S-102		Christian Mouden
PRIMAR Conversion Project	PRIMAR, PRIMAR RENC member states, Taiwan, SevenCs, i4Insight, TCaris, ECC	S-101	LINK	data@ecc.no
S-100 / S-102 Demo	ECC, PRIMAR, Norway	S-101,S-102,S- 111,S-129	S-100 Demo, S-102 Demo	
S-100 as a service	ECC, PRIMAR, CHS, TCaris, SevenCs	S-102, S-104, S- 111	LINK	





- a) Status of preparations to provide S-1xx datasets by 2026 with reference to WEND WG CL 02/2024 Request MICC members to submit their response
- b) RHCs to establish an S-100 Coordinator role
 Request MICC members to review draft TOR, ROP and
 Workplan of the MACHC International S100
 Coordination Working Group (MISC)
- c) Presentation of the Maritime Digital Products
 Development Plan by the Bolivarian Republic of
 Venezuela Commander Daniel Rojas







6) Any Other Business

- a) Approval of MICC workplan 2025
- b) Approval of MICC Chair and request interest for Vice Chair position

DELIVERY	ACTIONS		
DATE (2025)	Electronic Chart Activities	INT Chart Activities	
Jan 1 - Feb 1	Member States to provide updates based on discussions and consideration presented at the MACHC 2024 MICC WG meeting on plans to address ENC coverage within their area	Member States to provide updates based on discussions and considerations presented at the MACHC 2024 MICC WG meeting on plans related to INT Chart activities	
Feb 18 - 20	Represent MACHC at WEND WG		
March 28	In preparation for the quarterly Conference Call, Member States to provide updates to: Resolutions of any gaps/overlaps identified S-101 regional schemes Establishment of S-100 coordinators S-100 production and test beds Product specification development participation S-100 capacity building opportunities including workshop on "Dual Fuel" S-101 & S-57 production Workplan in support of S-101 production INTOGIS III & MACHC Initiatives website feedback	In preparation for the quarterly Conference Call, Member States to provide updates to: INT Chart metadata and shapefiles for planned INT Charts Additional coverage / adjustments for S-11, section B	
April 18	Hold quarterly conference call to assess status and next steps.		
May 5	Complete follow-up activities from Conference Call. Member States to provide all additional information identified during conference call.		
June 20	In preparation for the quarterly Conference Call, Member States to provide updates to:	In preparation for the quarterly Conference Call, Member States to provide updates to:	

DELIVERY	ACTIONS		
DATE (2025)	Electronic Chart Activities	INT Chart Activities	
	Resolutions of any gaps/overlaps identified S-101 regional schemes Establishment of S-100 coordinators S-100 production and test beds Product specification development participation S-100 capacity building opportunities including workshop on "Dual Fuel" S-101 & S-57 production Workplan in support of S-101 production INToGIS III & MACHC Initiatives website feedback	INT Chart metadata and shapefiles for planned INT Charts Additional coverage / adjustments for S-11, section B	
July 18	Hold quarterly conference call to assess status and prepare information as needed for subsequent communication to IRCC and IHB.		
Aug 05	Complete follow-up activities from Conference Call. Member States to provide all additional information identified during conference call.		
Aug 29	Investigate and/or track issues regarding consistencies and availability of ENCs and the corresponding INT (paper) Charts if problems persist.		
DELIVERY	ACTIONS		

DELIVERY ACTIONS		TIONS
DATE (2025)	Electronic Chart Activities	INT Chart Activities
Sept 5		MS to forward S-11 updates to INT Chart Coordinator for inclusion for Region B, S-11.
Sept 12		MICC INT Chart Coordinator to forward S-11 updates to IHB, to include Pacific INT scheme.
Oct 10	In preparation for the quarterly Conference Call, Member States to provide updates to: Resolutions of any gaps/overlaps identified S-101 regional schemes Establishment of S-100 coordinators S-100 production and test beds Product specification development participation S-100 capacity building opportunities including workshop on "Dual Fuel" S-101 & S-57 production Workplan in support of S-101 production INTOGIS III & MACHC Initiatives website feedback	In preparation for the quarterly Conference Call, Member States to provide updates to: INT Chart metadata and shapefiles for planned INT Charts Additional coverage / adjustments for S-11, section B
Oct 17	Hold quarterly follow-up conference call to update/review and discuss MS input in preparation of 26th MACHC.	
Nov 7	Complete follow-up activities from Conference Call. Member States to provide all additional information identified during conference call.	
Nov 14	Provide all updates, to the MICC Chair and INT chart Coordinator for the MICC Report to 26th MACHC.	
Dec 2025	Provide update on 2025 MICC activities/accomplishments	





6) Any Other Business

- a) Approval of MICC workplan 2025
- b) Approval of MICC Chair and request interest for Vice Chair position

Julio Castillo, USA - NOAA Cartographer and current MICC Vice Chair, requesting your approval to become MICC Chair

Candidates requested for MICC Vice Chair



THANK YOU VERY MUCH!







