

MBSHC-22

Report of the ICCWG6 to the MBSHC

VTC, 28th May 2021

Region F ICC Coordinator
Lt. Cdr. Marta PRATELLESI (Italy)



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MBSHC22-6.4.2

Preliminary considerations

- Good involvement of MSs
- Still major attention to INT PCs than ENCs
- BASWG15 was an occasion to update the RCC for the ICCWG6/MBSHC22



Satellite image of the Black sea – photo credit NASA



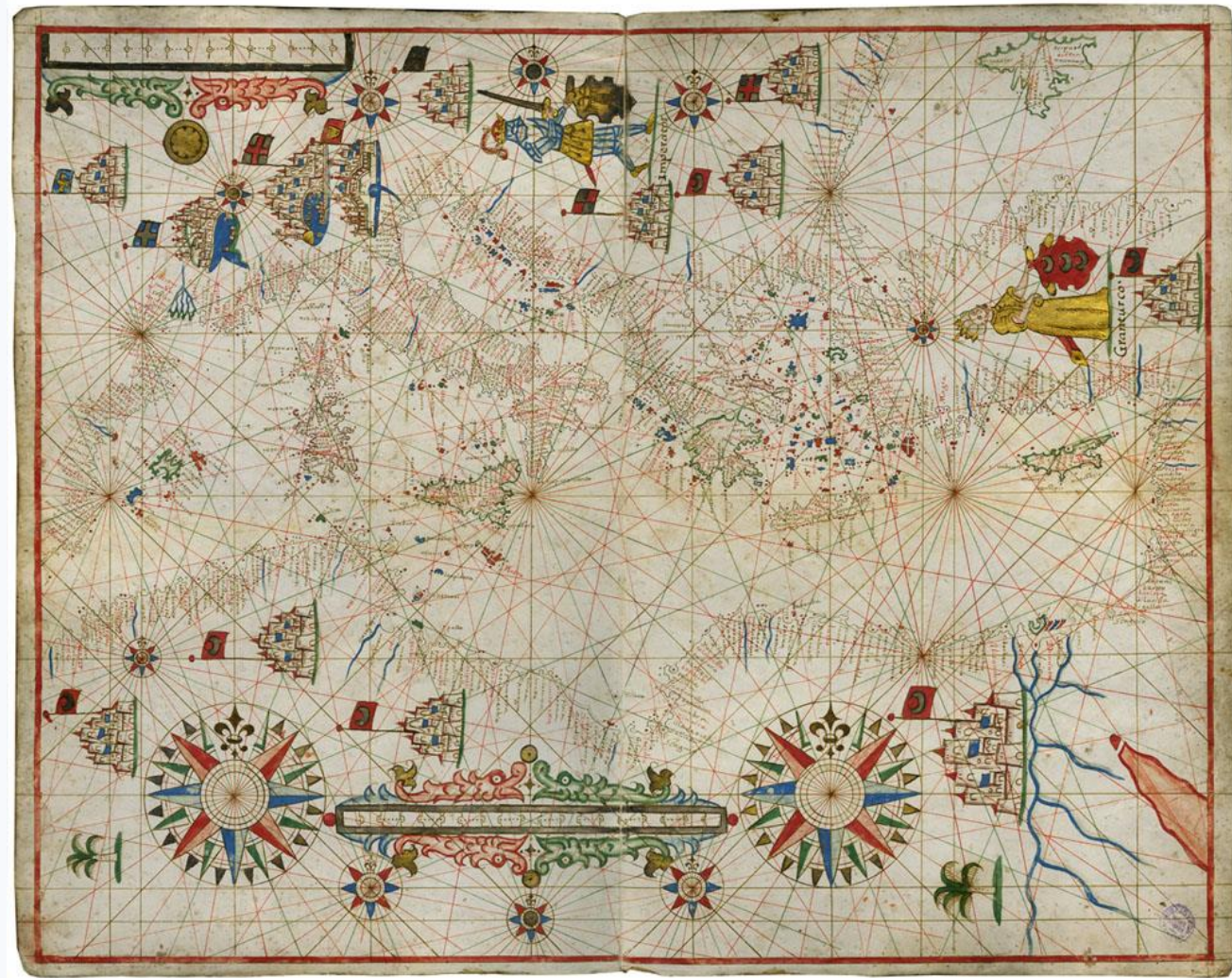
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Preliminary considerations

- INTToGIS catalogue ver. 4.0.27
May 2021
- 6th ICC WG before MBSHC22
and VTC mode complicated the
work of ICCWG
- RCC necessity to structure the
meeting
- Proposed actions and
recommendations for each
agenda item



Placido Caloiro et Oliva, «Atlante Nautico» in six charts, 1646



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Proposals and structure of the Report

- Proposed action and recommendation showed during the meeting, at the end of it (ICCWG-6) and circulated by email the 25th of May with additional proposals/amendments (outcomes of the ICCWG discussion)
- Short deadline (26th of May)
- Comments received from **ES**, **TR** and **FR**
- RCC will inform the MBSHC22 chair about the ICCWG main outcomes and points of discussion
- Minutes sent out the 26th of May (deadline for comments 9th of June)

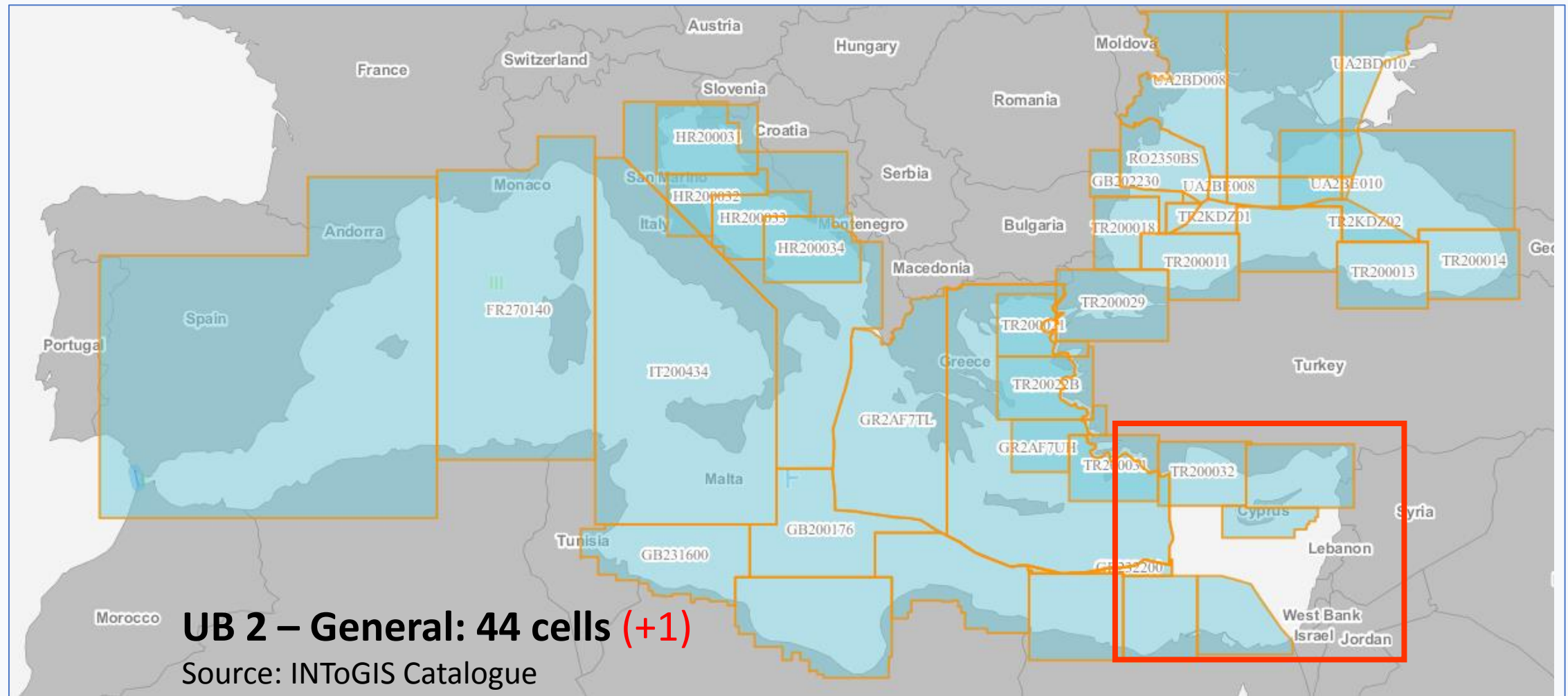


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Status of ENC's coverage – UB 2 - General

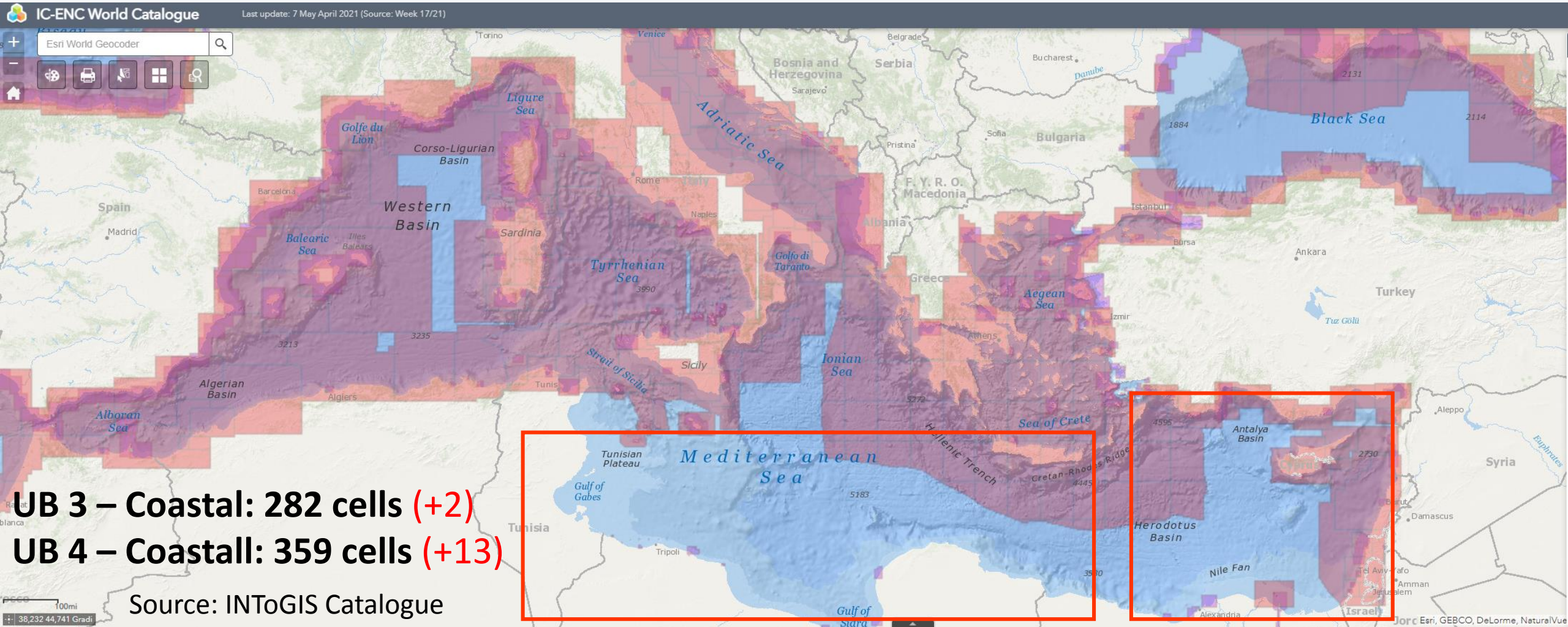


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Status of ENC's coverage – UB 3/4 Coastal/Approach

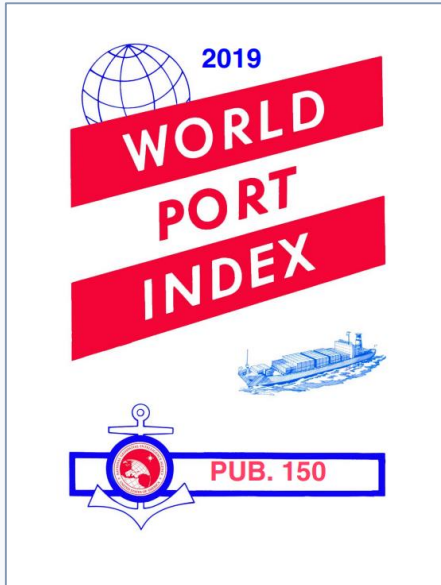


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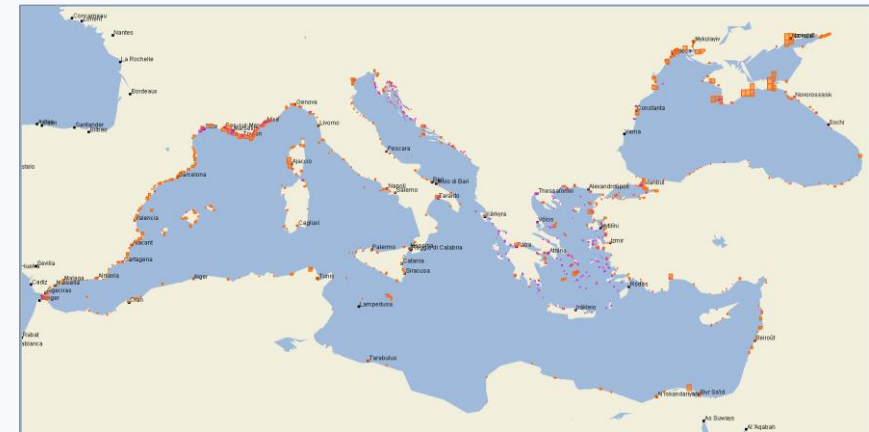
Status of ENCs coverage – UB 5/6 Harbor/Berthing



- NGA is working to update the Port List together with the IHO
- MBSHC21 inputs about port list not applied yet
- Updates will be received at MSBHC22

Action MBSHC21/28 on hold – not completed

Action N°	Action	Responsible
MBSHC21/28	MS to use the IHO online port database to update their port priority list and report to the Regional Charting Coordinator (RCC).	All



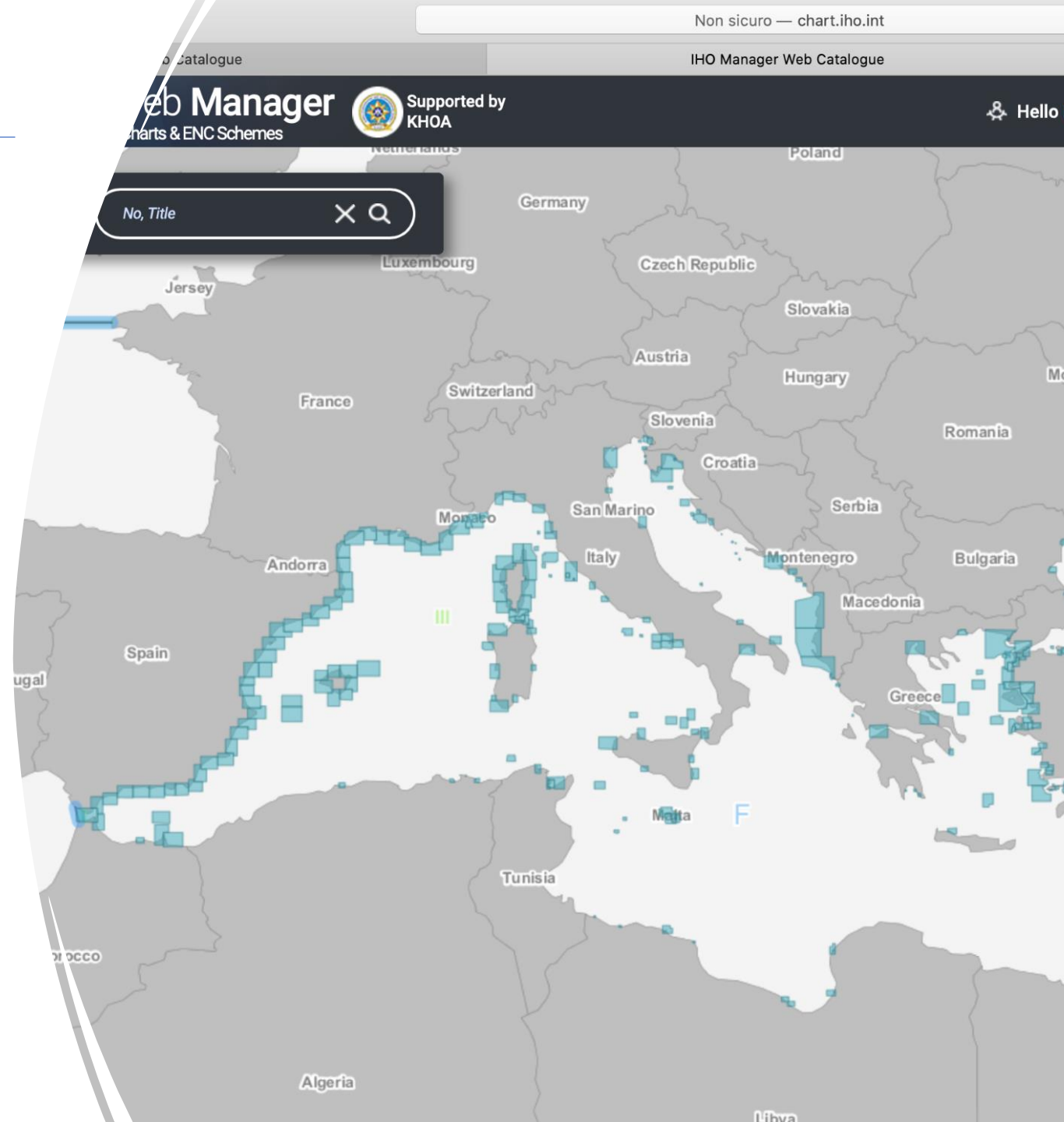
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General assessment

- **UB2 – UB 3 coverage not complete** (East Med)
- **UB 3-4 coverage not complete** (South Med – West Black Sea)
- General **increase** in the number of ENC cells
- MBSHC21 inputs about port list not applied yet (on going by NGA)

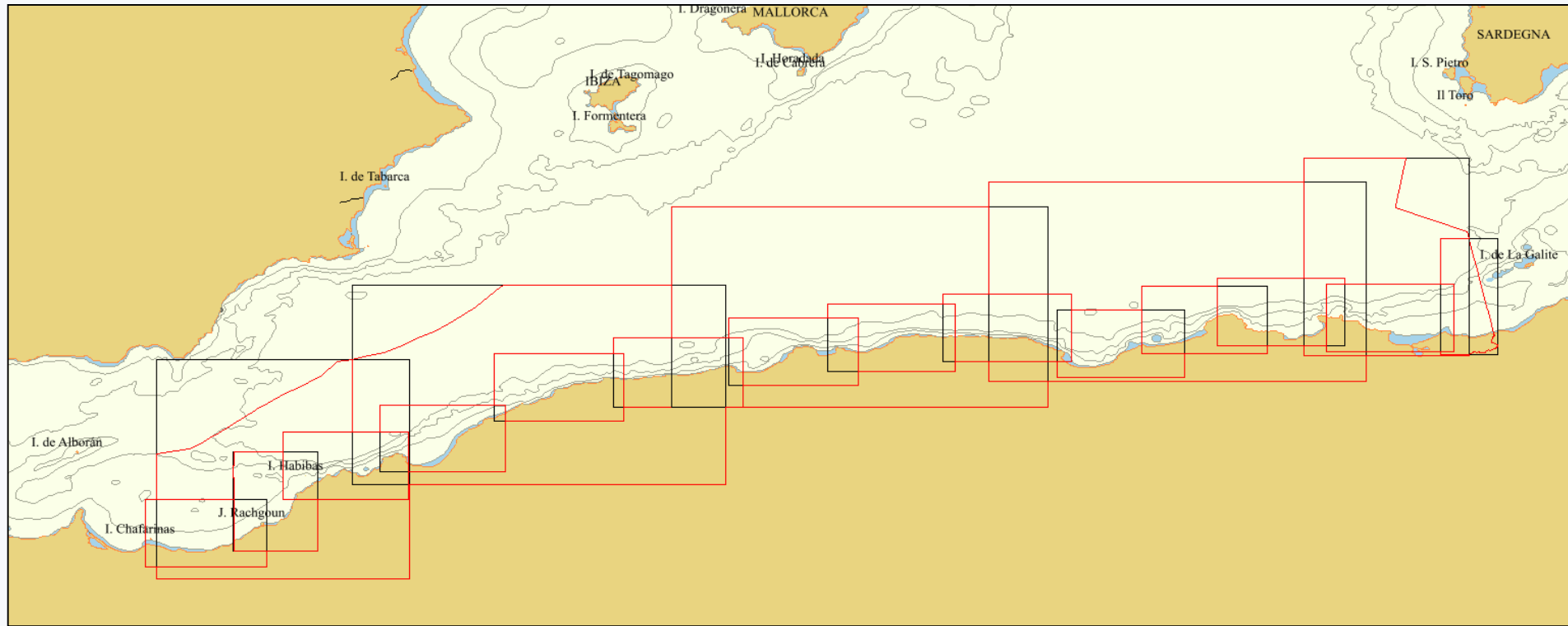


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Algerian New ENC Scheme

- **UB3 complete scheme of the Algerian Coast**
- **RCC informed in April 2021**
- **Coordination needed for transition and implementation (DZ, GB and RENCs)**



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“Status of ENCs” proposed action/ recommendations

Action/Recomandation N°	Action	Responsible	Update/Comment
ICC6/01	MSs are encouraged to liaise with the RCC to coordinate the development and maintenance of ENC scheme	All	ICC7/MBSHC23
ICC6/02	MSs to complete the ENC scheme and provide RCC with their ENC production plan especially for UB 4-5-6	All	ICC7/MBSHC23
ICC6/03	RCC to disseminate an updated version of the Port Priority List once NGA is ready to process new data	RCC	ICC7/MBSHC23
ICC6/04	MS <u>to be ready to use the IHO online port database to update their port priority list</u> and report to the Regional Charting Coordinator (RCC)	All	ICC7/MBSHC23
ICC6/05	DZ to update the RCC about the new ENC scheme implementation and RCC to provide support	DZ,UK,RCC	ICC7/MBSHC23



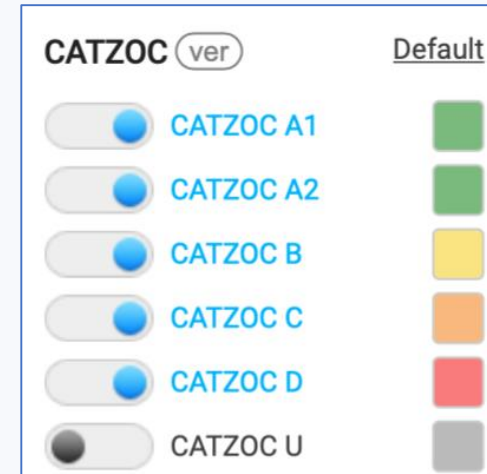
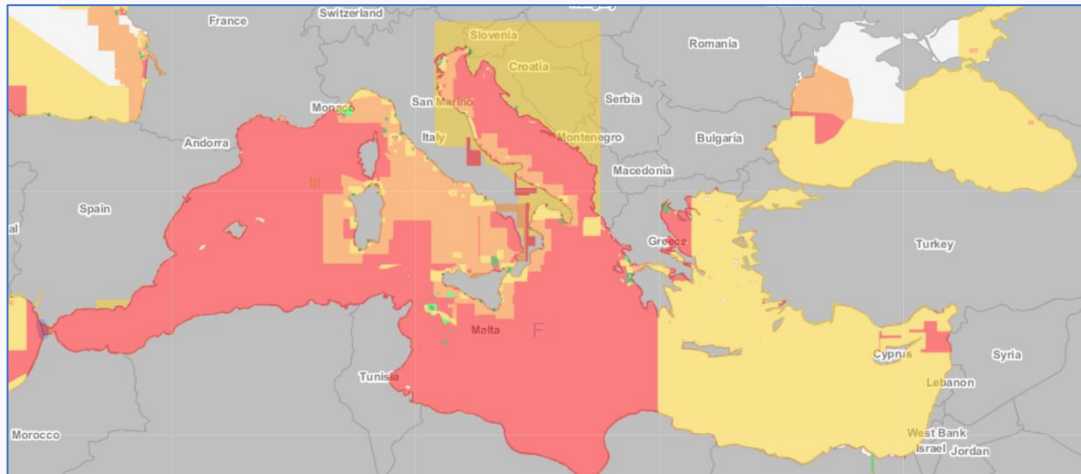
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Status of ENC's "Quality" - CATZOC

Action N°	Action	Responsible	Update/Comment
MBSHC21/22	MS are encouraged to populate the CATZOC values (1 to 5) of their ENC cells	All	<i>No significant updates, decreased n° of areas of UNASSESSED Quality of Bathymetric Data</i>



Action/Recommendation N°	Action	Responsible	Update/Comment
ICC6/07	MS are encouraged to populate the CATZOC values (1 to 5) of their ENC cells	All	ICC7/MBSHC23



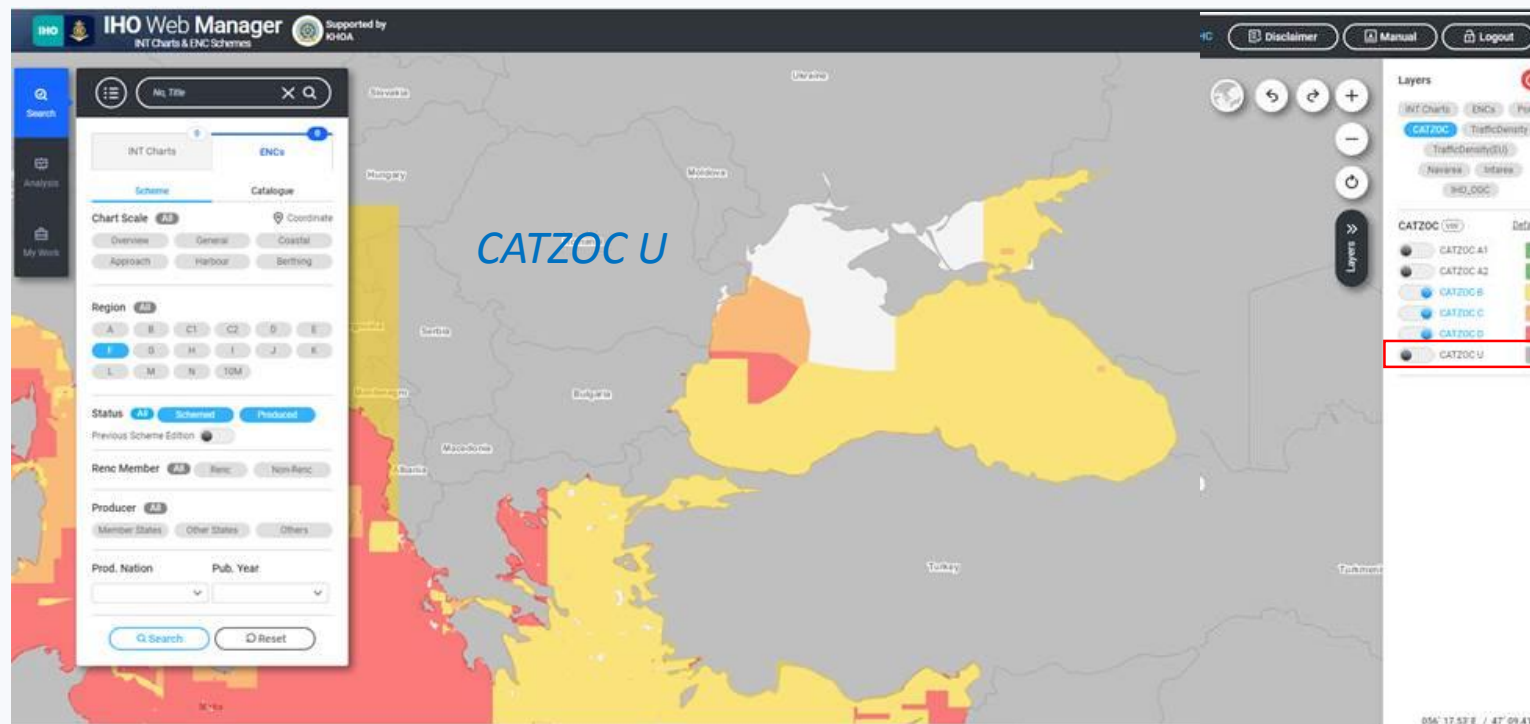
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Status of ENCs “Quality” - CATZOC

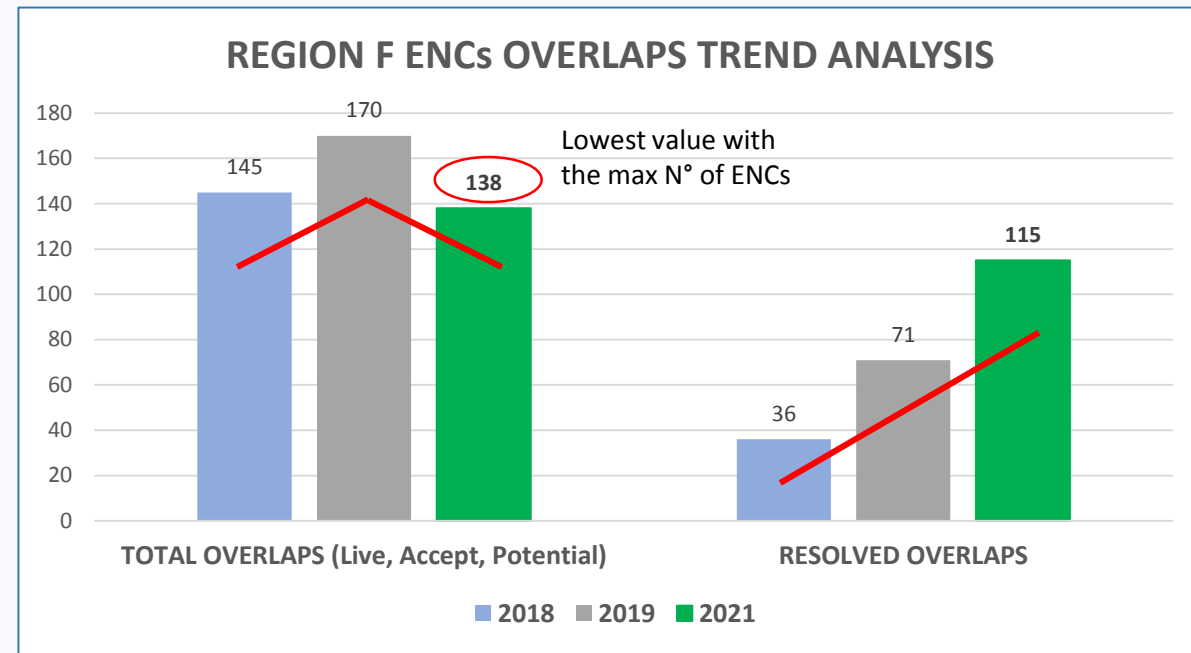
- Result of the INTToGIS query about «CATZOC U» showed at BASWG (Unassessed)
- UA informed the RCC that the M_QUAL value is attributed
- Investigation on going by the IHO with the INTToGIS Project Manager and RENCs



Action/Recommendation N°	Action	Responsible	Update/Comment
ICC6/06	RCC to inform UA about the result of the IHO investigation about INTToGIS CATZOC attribution	RCC	September 2021

Status of ENC's – Region F overlap assessment

Region F	March 2018	June 2019	June 2021
Resolved	36	71	115
Accept	3	15	12
Potential	37	50	39
LOW	81	81	70
MEDIUM	24	24	17
HIGH	0	0	0
Total overlaps (L,P,T)	145	170	138



- Results of the ENC's RENCs Report (see ICCWG6-02B)
- Values provided take account that some overlaps (Potential, Accept, Live) have already been solved by MSs since Feb. 2021
- **Coordination between MSs significantly increased as shown by the overall trend**

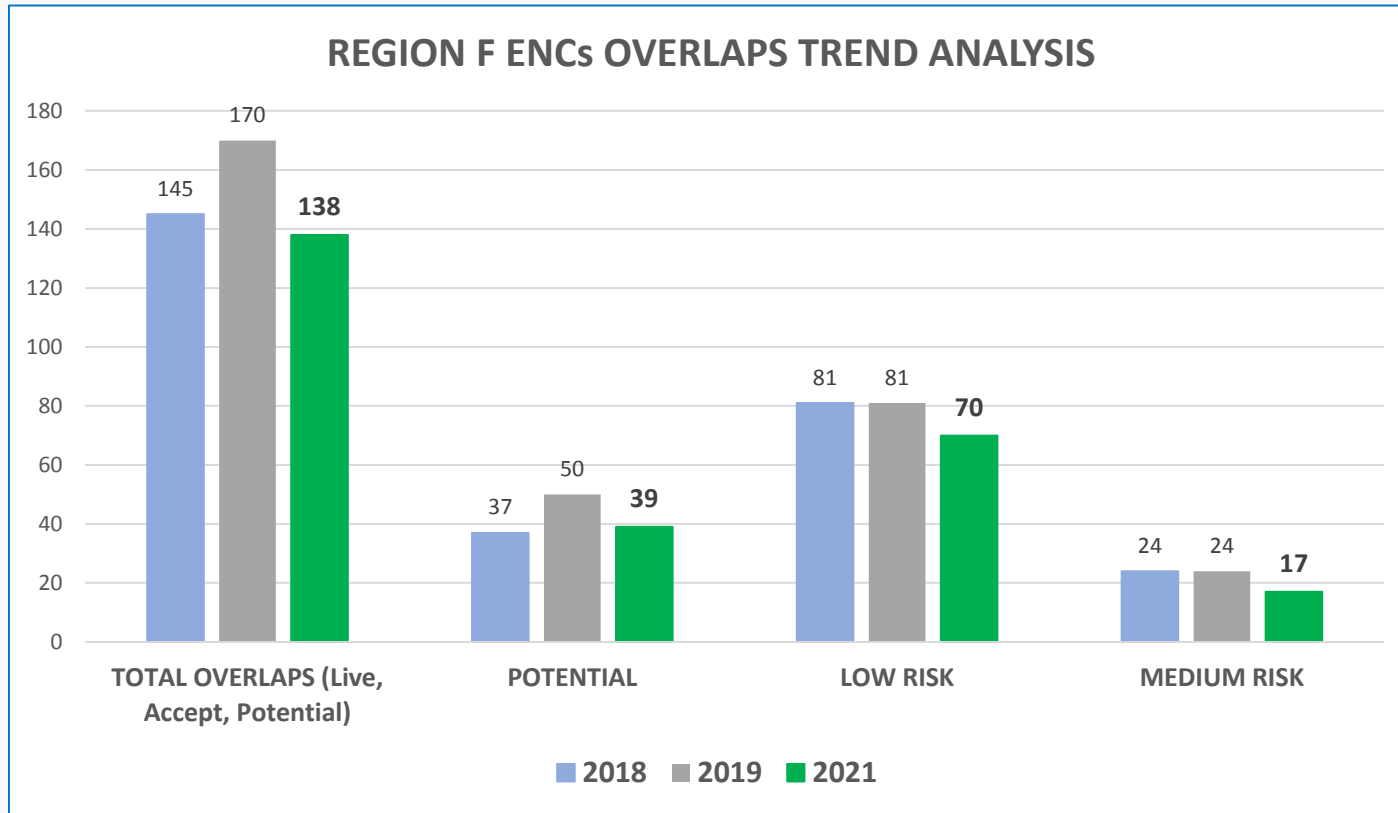


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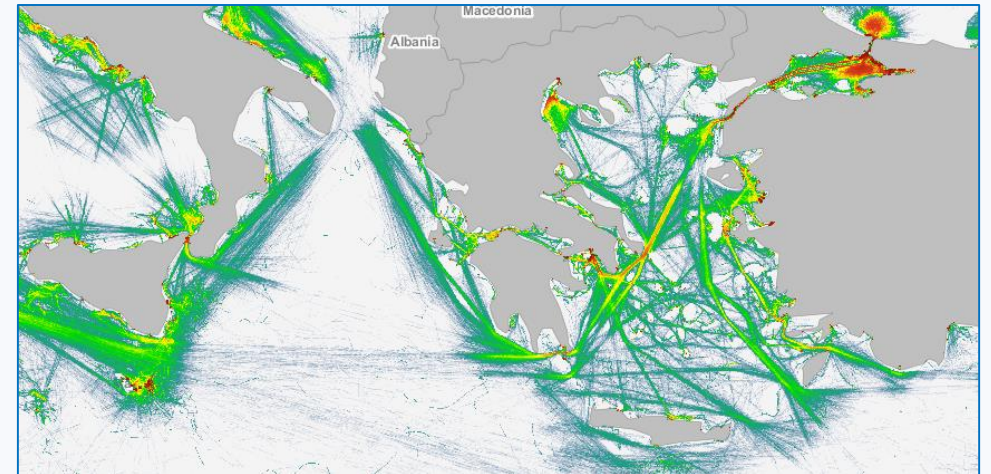
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Status of ENC's – Region F overlap assessment



- Resolved and Acceptable overlaps ↗
- Live Low and Medium overlaps ↘
- Potential overlaps ↘



Monitoring mechanism at the RENCs level is working



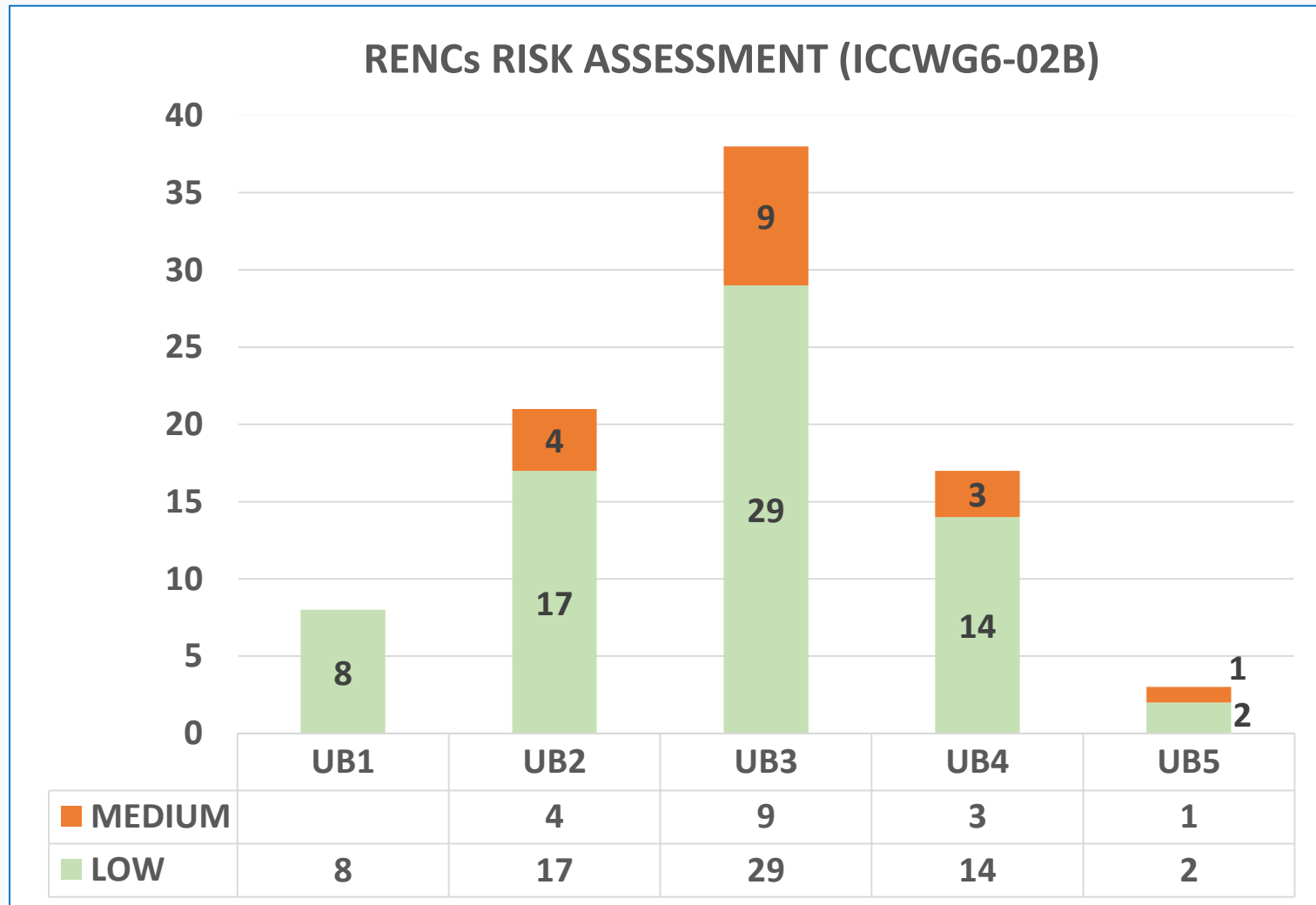
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Status of ENC's – overlaps risk assessment

- MSs that provided a feedback to the RCC generally confirmed RENCs risk assessment
- Higher number in UB3
- Only “LIVE” Medium risk overlaps will be analyzed
- MSs already resolved some “potential” overlaps

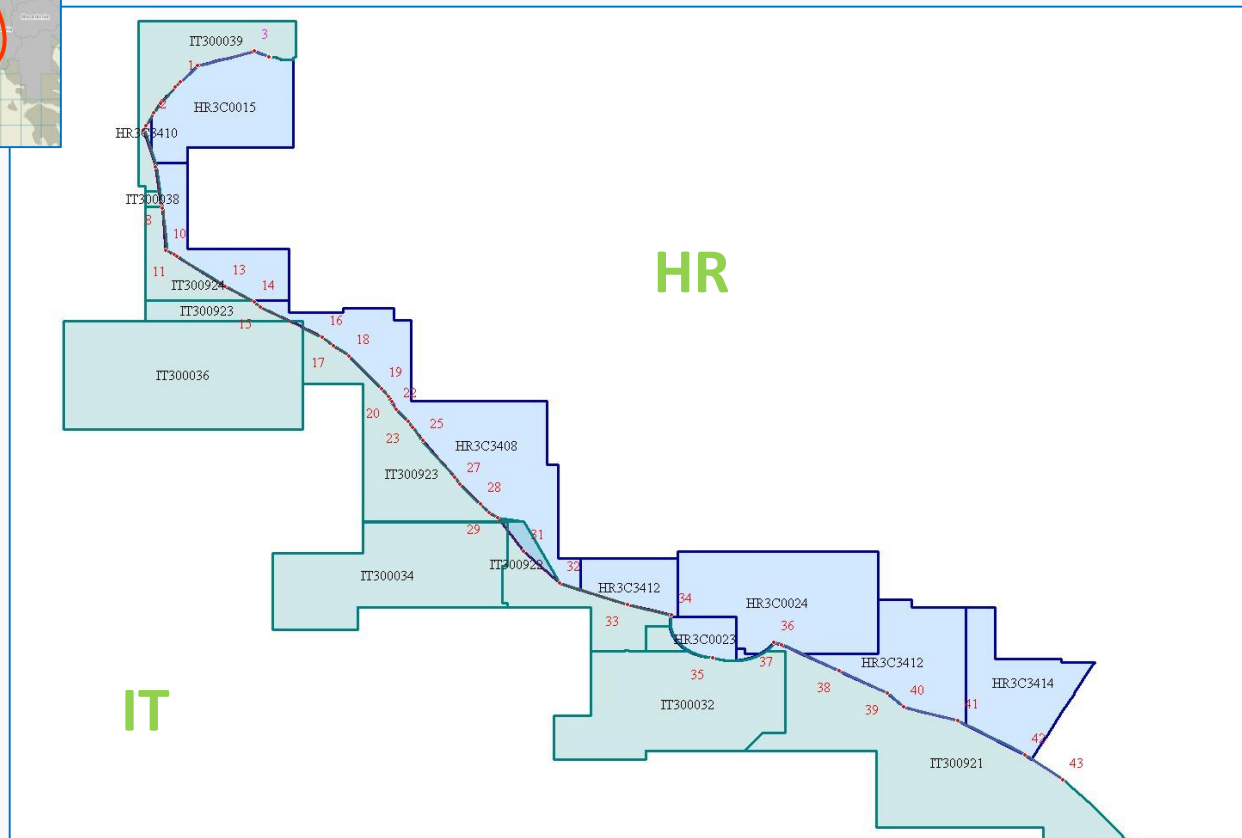
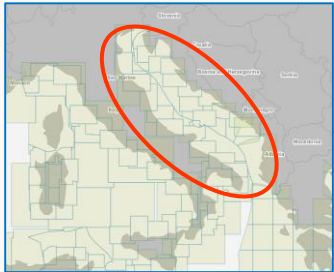


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Status of ENCs – Solved overlaps and gaps

Effort of GB, EG, HR, TR, IT, SI, TN, GR, ES to be acknowledged



- UB3 overlaps in the Adriatic Sea are solved
- Delimitation agreed by Ms
- There is not a “right” scheme but the “BEST AGREED” Scheme
- Dialogue is the key!



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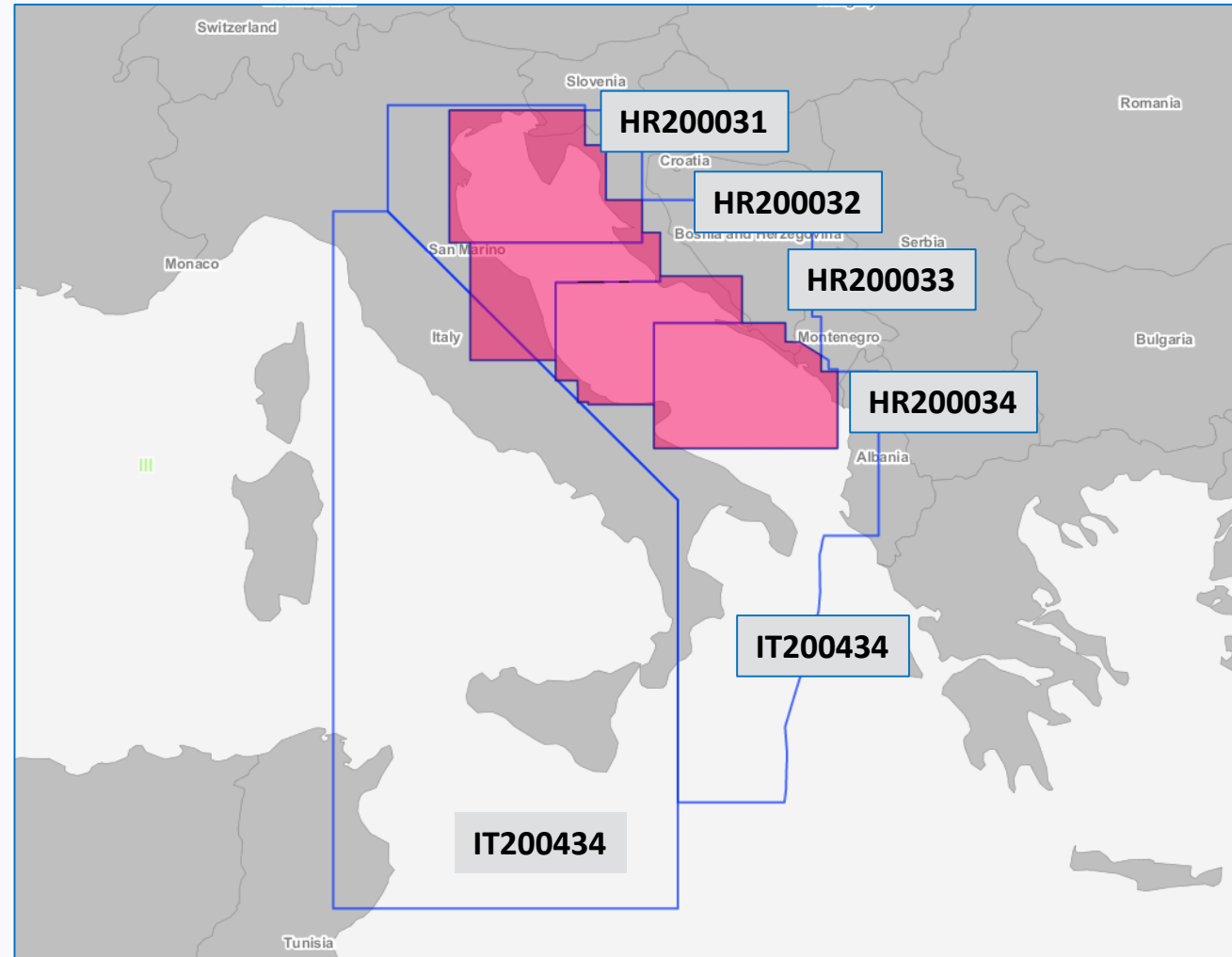
Status of ENC's – overlaps risk assessment UB 2

Highest risk case: General charts of the Adriatic Sea overlaps (IT-HR)

IC-ENC Risk analysis → **Medium**

MSs Risk analysis → **Low**

- Overlap exists due to the difference in the compilation scale
- Inconsistencies resolved through updates by HR
- Coordination between IT-HR on going



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Status of ENC's – overlaps risk assessment UB 2

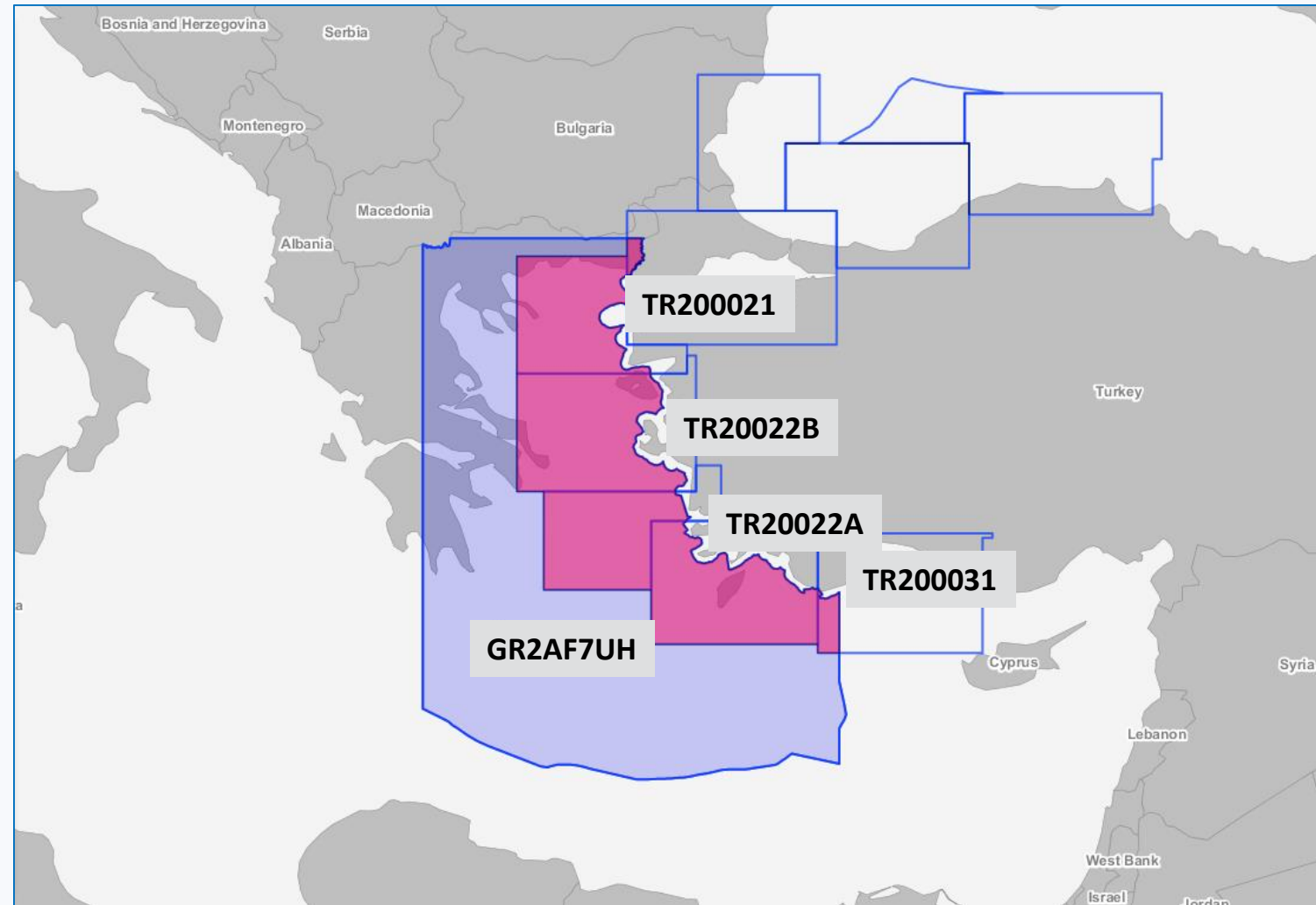
Highest risk case: General charts of the Aegean Sea overlaps (GR-TR)

GR2AF7UH & TR20022A, TR20022B
IC-ENC Risk analysis → **Medium**

GR2AF7UH & TR200021, TR200031
IC-ENC Risk analysis → **Low**

GR Risk analysis → **High**

TR Risk analysis → **Low (2017)**

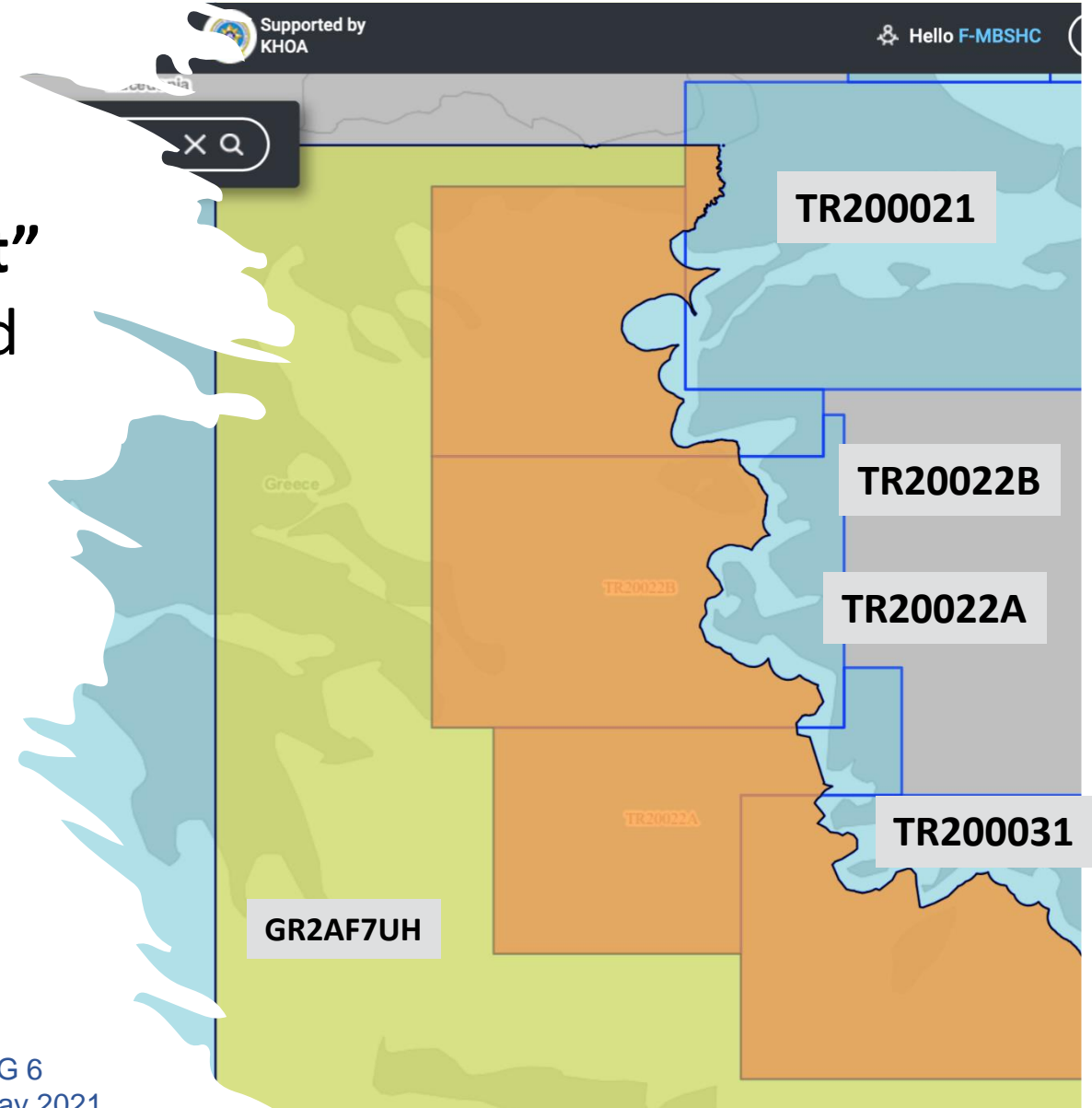


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Status of ENC's – overlaps risk assessment UB 3

- **GR provided a “risk assessment report”** (ICC6-2A) with technical comments and also other considerations



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RCC:

Same scale (1:350.000)

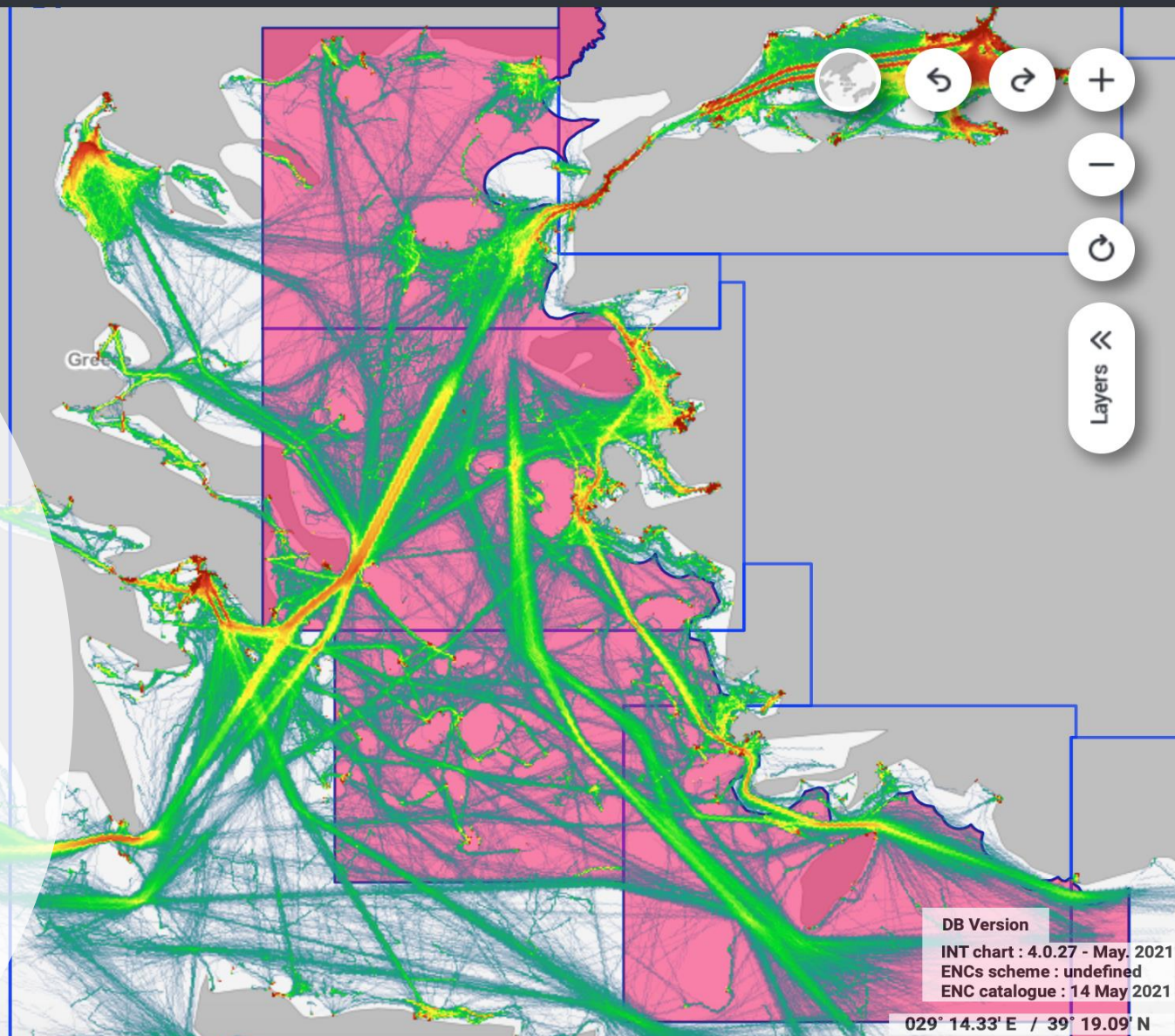
Up to 90% overlaps

**Risk of inconsistency between cells
due to lack of coordination**

High-traffic density area

Difference in compilation policies

Larger scale charts in the area



Status of ENC's – overlaps risk assessment UB 3

Highest risk case: Coastal charts of the Aegean Sea overlaps (GR-TR)

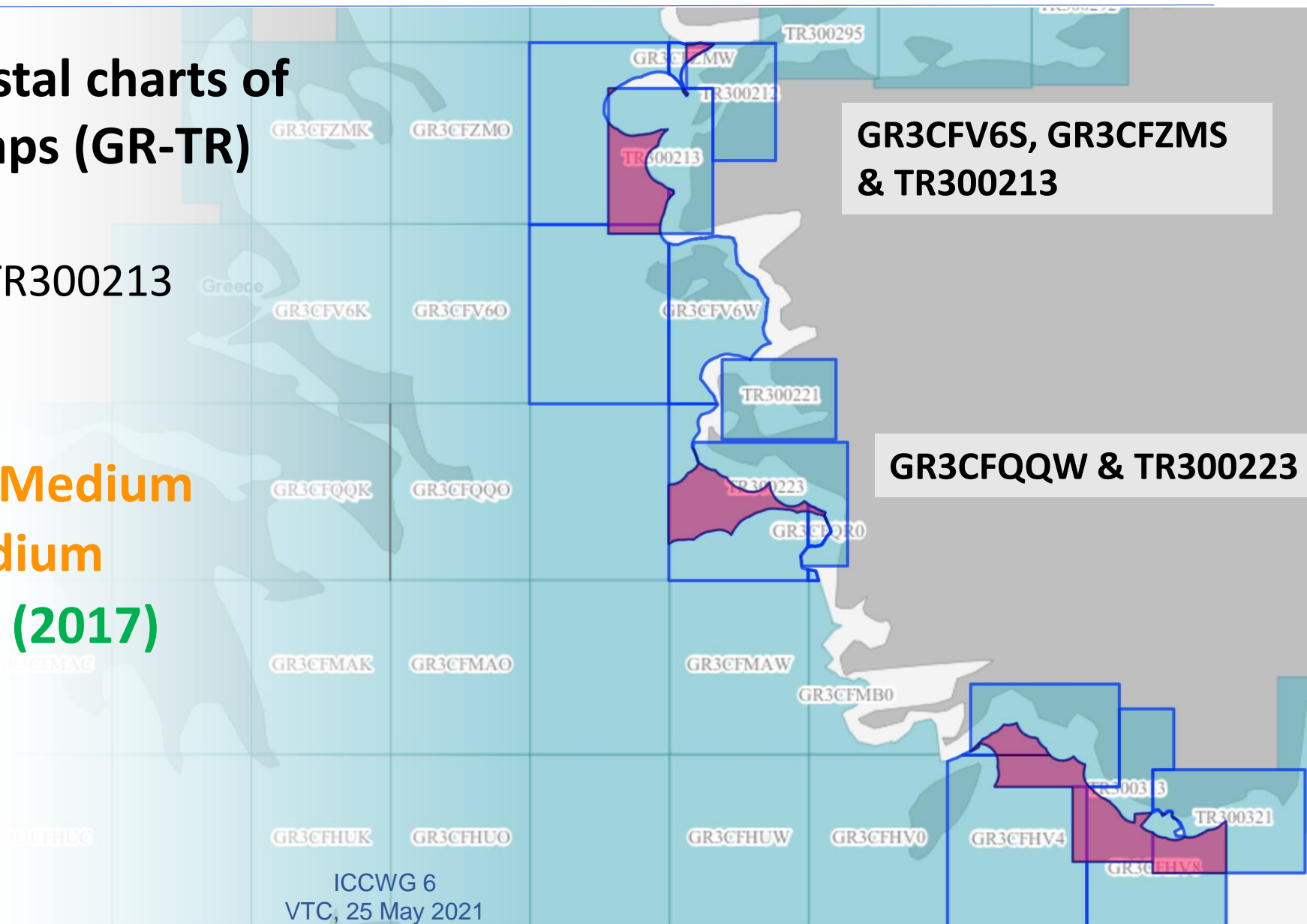
GR3CFV6S, GR3CFZMS & TR300213

GR3CFQQW & TR300223

IC-ENC Risk analysis → **Medium**

GR Risk analysis → **Medium**

TR Risk analysis → **Low (2017)**



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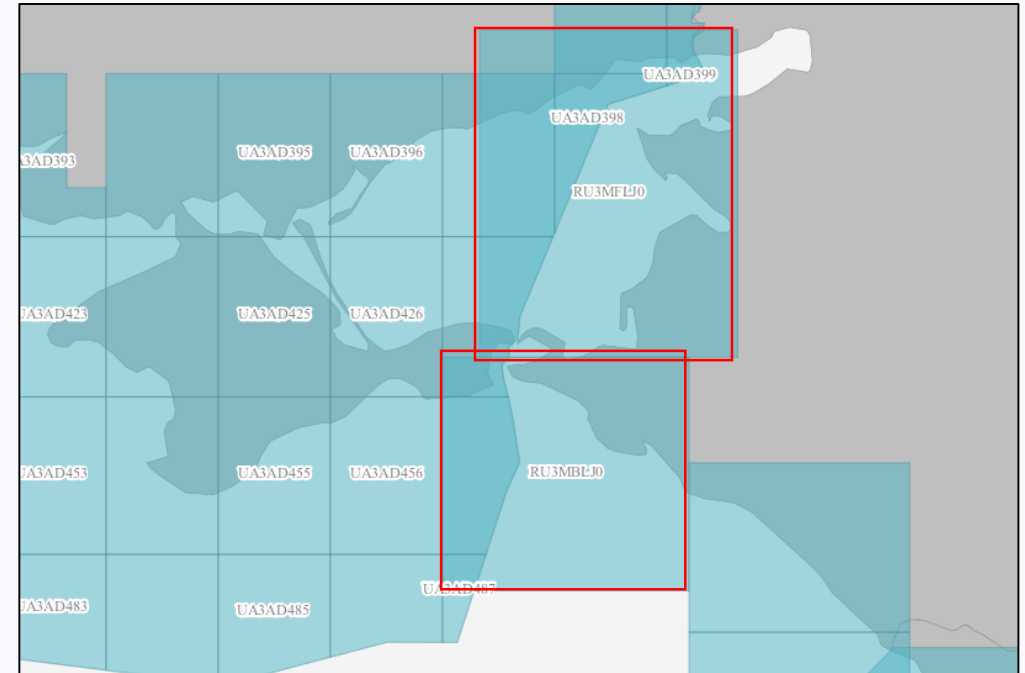
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Status of ENC's – overlaps risk assessment UB 3

Highest risk case

- IC-ENC Risk analysis → **Medium**
- Critical location of the overlap (main route through Kerch Straits & anchorage areas)
- Up to 100% overlap

RU3MBLB0	UA3AD455
RU3MBLB0	UA3AD456
RU3MBLJ0	UA3AD427
RU3MFLJ0	UA3AD397
RU3MFLJ0	UA3AD398
RU3MFLJ0	UA3AD427

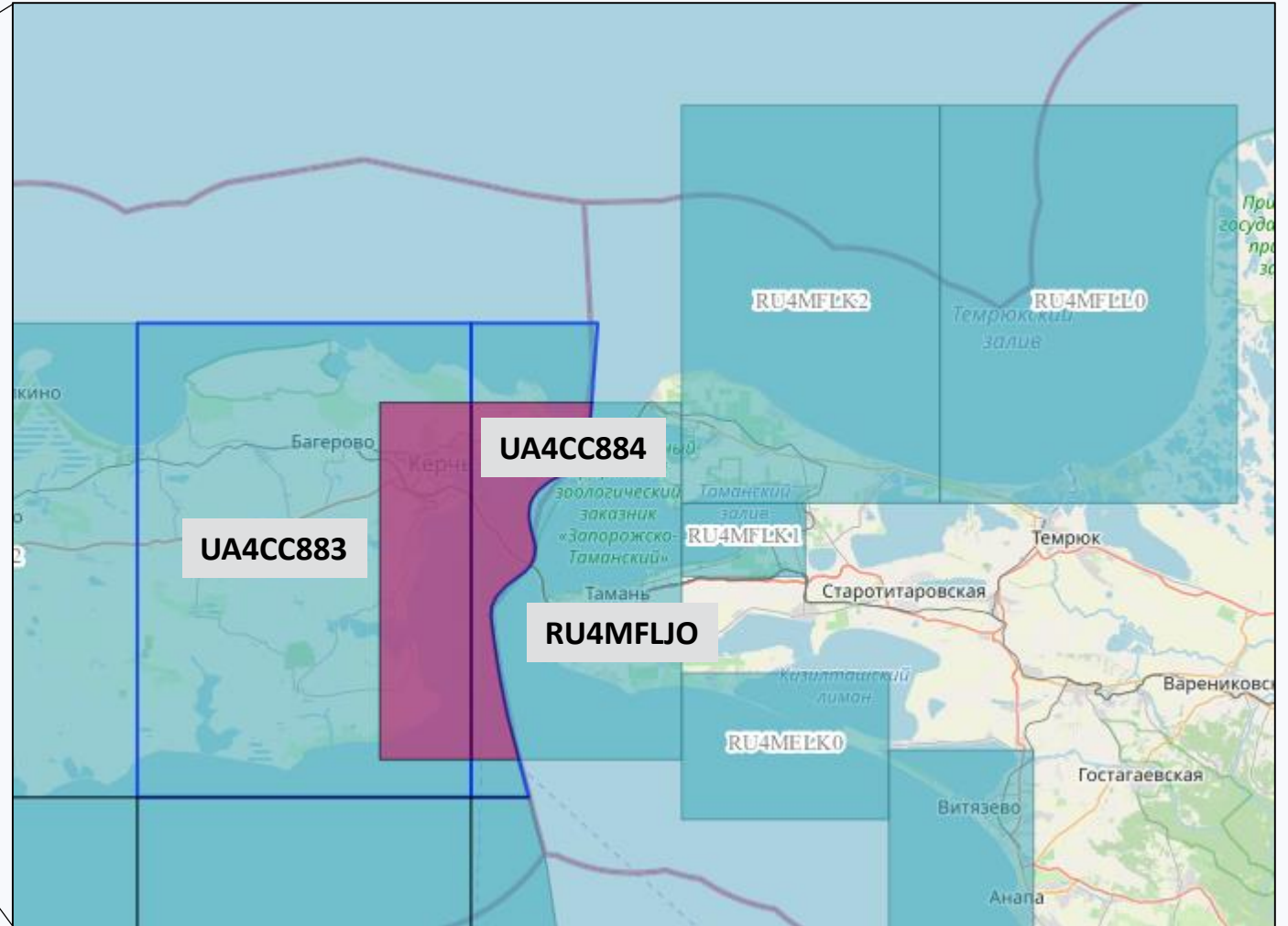
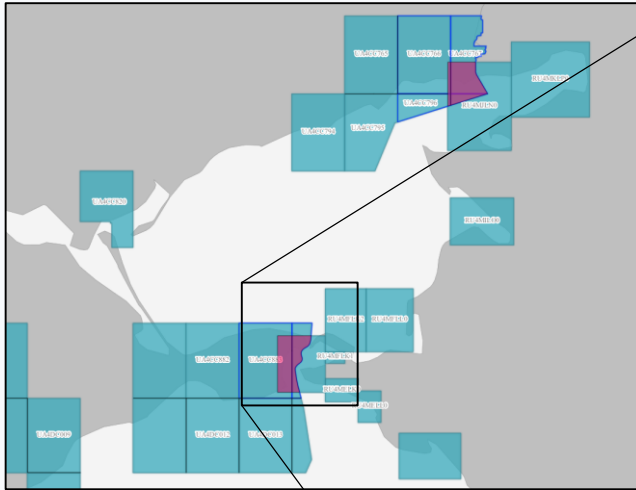


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Status of ENCs – overlap risk assessment UB 4



Highest risk case :

RU4MFLJO & UA4CC883

RU4MFLJO & UA4CC884

IC-ENC Risk analysis → **Medium**

- Critical location of the overlap (main route through Kerch Straits & anchorage areas)
- Up to 100% overlap



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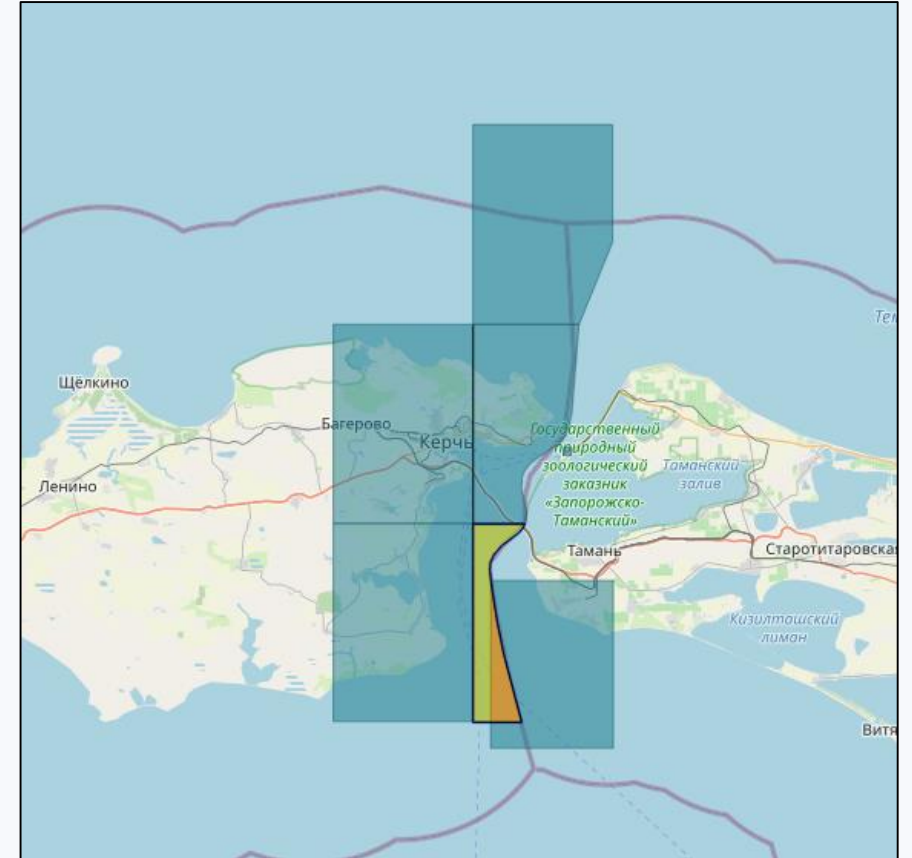
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Status of ENCs – overlaps risk assessment UB 5

Highest risk case :

RU5MELJ0 & UA5ECM39

- IC-ENC Risk analysis → **Medium**
- Critical location of the overlap (main route through Kerch Straits & anchorage areas)
- Inconsistencies between overlapping cells
- Up to 100% overlap

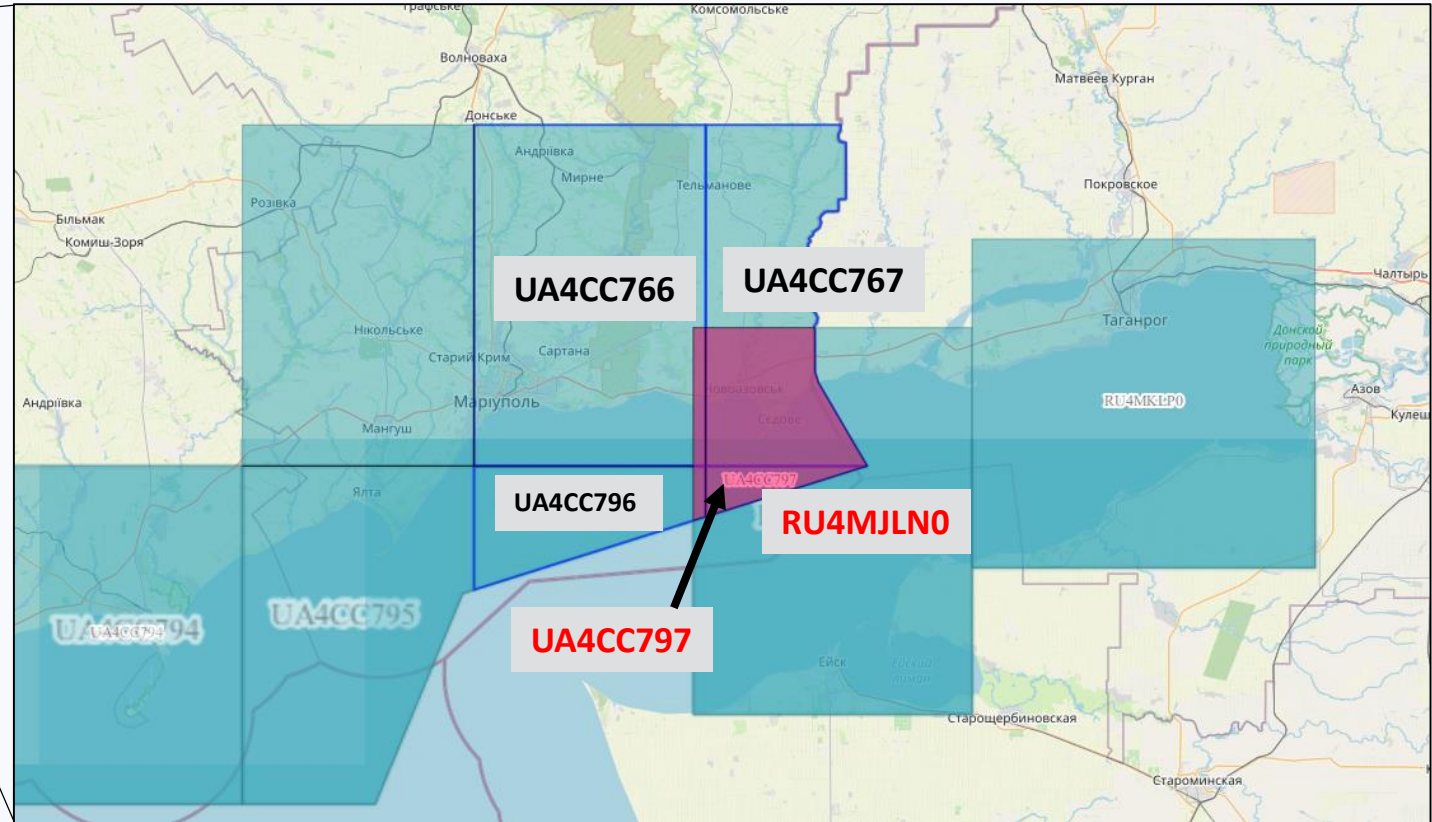
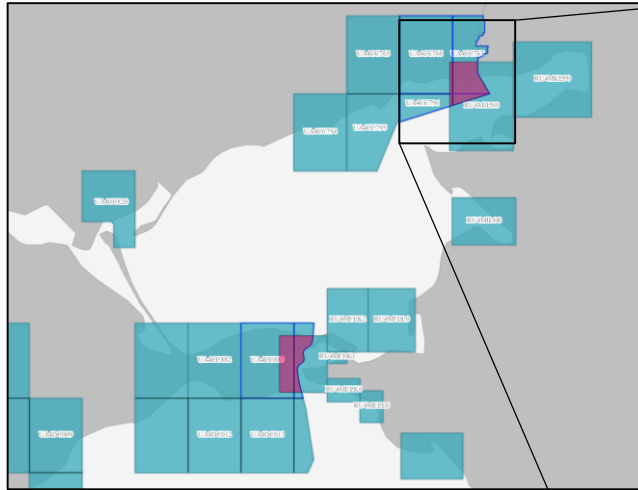


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Status of ENC's – overlap risk assessment UB 4



**RU4MJLNO & UA4CC796 & UA4CC797
& UA4CC767**

- Up to 100% overlap
- IC-ENC Risk analysis → **Low** (includes a busy traffic area, Content is consistent)



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“ENCs overlap” proposed action/recommendations

Action/Reccomandation N°	Action	Responsible	Update/Comment
ICC6/08	Concerned MSs to liaise bilaterally to resolve ENC overlaps , keeping the RCC informed	All	ICC7/MBSHC23
ICC6/09	MSs to use RENCs’ template report to provide the RCC with the evaluation of the risk level on the most critical ENC overlaps based on the IC-ENC risk assessment regional database	All	ICC7/MBSHC23
ICC/10	Recommend to the MBSHC MSs to follow the WEND principles and guidelines with specific regard to the ENC charts production and mantainance responsibilities (https://iho.int/en/basic-wg-documents-1)	All	MBSHC22



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“ENCs overlap” proposed action/recommendations

Action/Reccomandation N°	Action	Responsible	Update/Comment
ICC6/11	Inform the MBSHC about the GR RISK ASSESSMENT REPORT (ICCWG6-02A) about UB2 cells and that there are discrepancies in the ENC overlaps risk assessment among concerning parties and RENCs in the Aegean Sea UB2 cells (GR/High, RENC/Medium-Low, TR/Low)	RCC	MBSHC22
ICC6/12	TR to confirm/update the risk assessment provided (2017) about ENC overlaps	TR	MBSHC22
ICC6/13	Inform the MBSHC22 about “highest” risk ENC overlaps cases (MBSHC to evaluate to apply res 1/2018)	RCC	MBSHC22



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ECDIS backup arrangements

Action N°	Action	Responsible	Update
MBSHC21/25	Member States and Associate members to ensure that the information on any requirements for ECDIS back-up arrangements using paper charts have been posted on the IHO website, and to update or give confirmation of no change at least once a year.	All	No updates received

- Still ECDIS back-up arrangements not provided by some MSs or not updated

Proposed action: to provide the list or update it (<https://iho.int/en/backup-paper-charts-0>)

Action/Recommendation N°	Action	Responsible	Update/Comment
ICC6/14	Member States and Associate members to ensure that the information on any requirements for ECDIS back-up arrangements using paper charts have been posted on the IHO website, and to update or give confirmation of no change at least once a year.	All	15 December 2021



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Preliminary considerations

Increased use of the INTToGIS by producers MSs to update schemed or produced charts and to submit new proposals for inclusion in the catalogue



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INT Charts scheme status

Action N°	Action	Responsible	Update
MBSHC21/42	New INT chart producers to provide Region F ICC with the INT charts iaw IRCC7 Decision3.	All - New INT producers	Updates received from RO, UA, IT, EG, GB, GE
MBSHC21/41	MS to check and, if necessary, update their INT charts metadata (chart limit, title, year, format, scale, etc.) included in the region F INT catalogue using their INTOGIS national account.	INT producers	Updates received from RO, UA, IT, EG, GB, GE

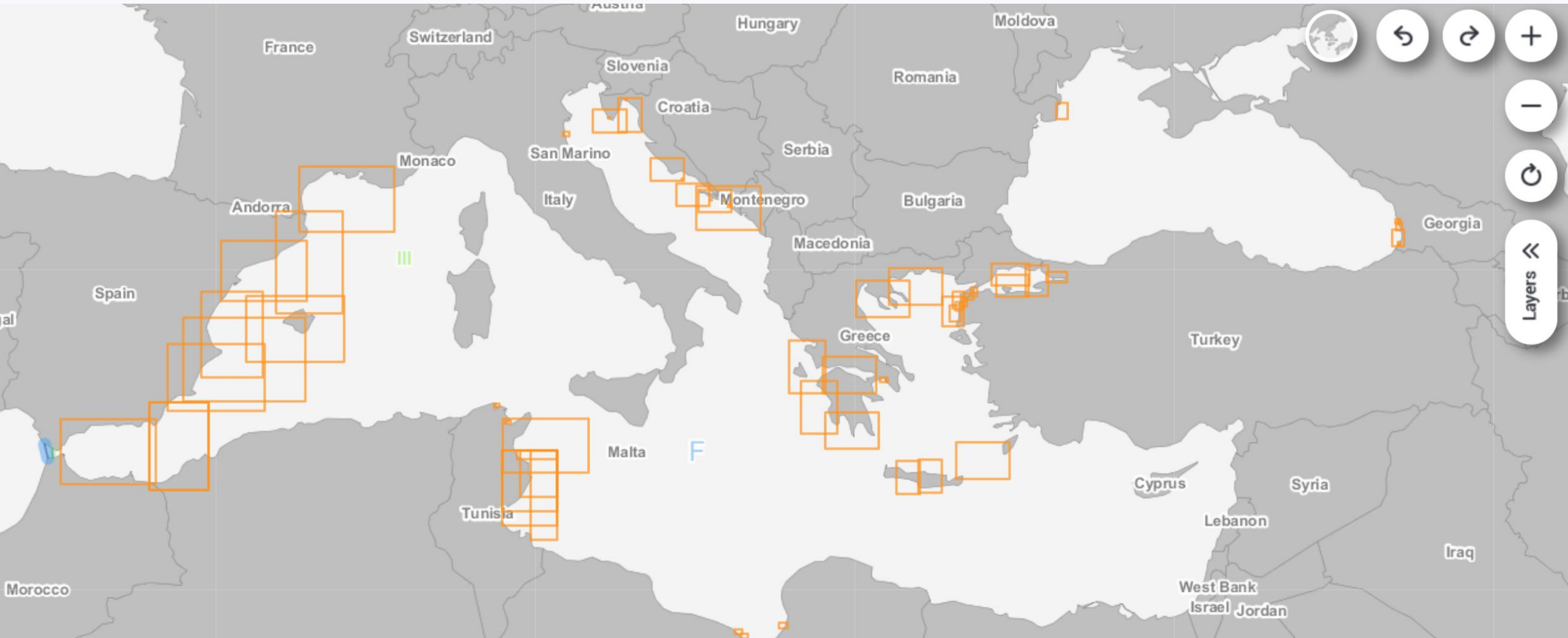


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INT Charts scheme status – Schemed charts



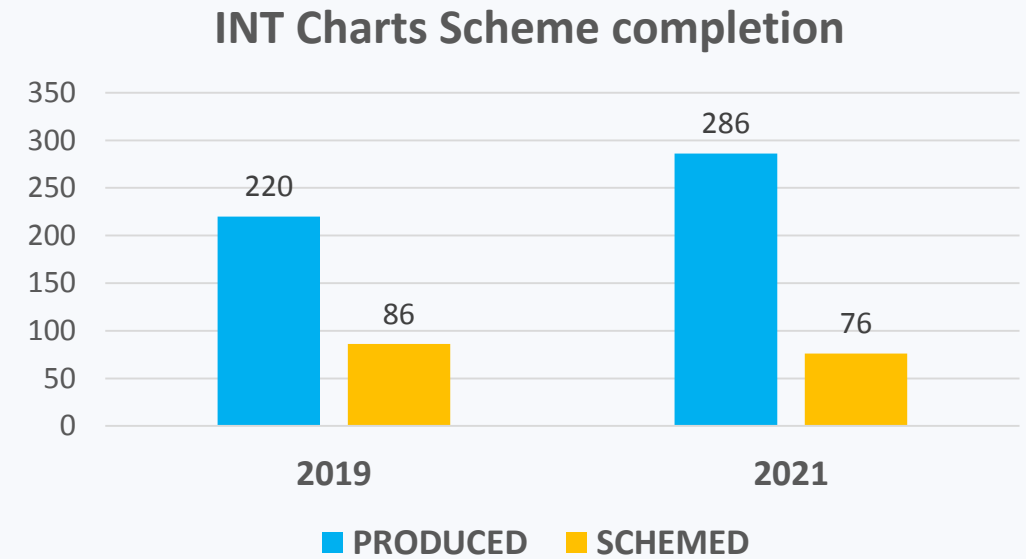
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INT Charts scheme status – Schemed charts

	2019		2021	
	Produced	Schemed	Produced	Schemed
Overview	15	0	16	0
General	3	2	3	2
Coastal	47	38	54	28
Approach	45	11	51	7
Harbour	91	27	139	25
Berthing	19	8	23	14



INToGIS Catalogue: v. 4.0.27 May 2021

- Current catalog: 362 INT Charts (286 Produced – 76 Schemed)
- *Is this still a priority in consideration of the decreased sell of PCs?*



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INT Charts scheme status – EG - UK

Action N°	Action	Responsible	Update
MBSHC21/35	EG to provide new INT charts to the Region F ICC , to check consistency with the current INT scheme (New charts to be added to the scheme and charts taking over already produced INT charts, IAW with transition plan with UKHO, with justification of proposed modifications to the existing scheme if applicable)	EG	MBSHC22 COMPLETED
MBSHC21/36	EG to propose a transition plan including procedure for reprint agreement prior to endorsement in the region F catalogue.	MBSHC21/36	MBSHC22 COMPLETED



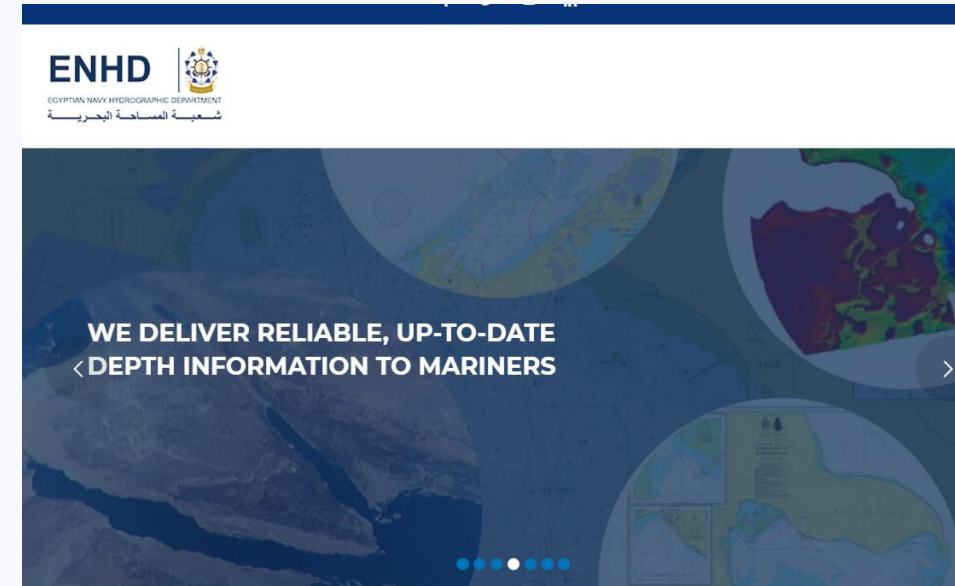
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INT Charts scheme status – EG - UK

- **Aknowledgement to the coordination between EG and UK**
- **Transiton successfully completed in the INT Charts production (December 2020)**



<http://www.enhd.gov.eg/>



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INT Charts scheme status – EG - UK

INT TITLE	Scale	NEW INT Chart Number	OLD INT Chart NUMBER	Producers	Nat Chart Number	Note
Port of Alexandria and Dekheila	20.000	3554	3554	EG	M518	No new INT Chart number required as EG succeeded UK in INT 3554 production
Damietta Port	35.000	3552	3350	EG	M421	UK canceled "Mina Dumyatt Plan" on chart INT 3550 in order to avoid duplication. UK submitted the cancellation in the INTOGIS.
Outer Approaches to Port Said	50.000	3548	3548	EG	M424	No new INT Chart number provided as EG succeeded in UK in INT 3548 production
Port of GARGOUB	12.500	3560	//	EG	M10	New Chart, RCC provided a new INT Chart number



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INT Charts in the Black and Azov Seas

- Agreed INT Scheme : 33 Produced & 9 Schemed charts uploaded after BASWG

INT CHART SCHEME COMPLETED

The screenshot displays the IHO INT Chart Scheme interface. On the left, a map shows the Black and Azov Seas region with callouts for Romania (RO) and Georgia (GE). A detailed view of chart INT 3906 is shown, listing its metadata. On the right, a table lists the details for nine charts produced under the scheme, with the INT No. column highlighted in yellow.

<input type="checkbox"/>	INT No	PanelId	INT Region	Region_Ver.	INT Title	Producer
<input type="checkbox"/>	3871	PART-A	F	4.0.5 - FEB. 2021	Batumi Port	GE
<input type="checkbox"/>	3876	PART-B	F	4.0.5 - FEB. 2021	Chanel Kulevi	GE
<input type="checkbox"/>	3876	MAIN	F	4.0.5 - FEB. 2021	Kulevi Port wit...	GE
<input type="checkbox"/>	3872	MAIN	F	4.0.5 - FEB. 2021	Georgian Coast...	GE
<input type="checkbox"/>	3873	MAIN	F	4.0.5 - FEB. 2021	Poti Port with ...	GE
<input type="checkbox"/>	3873	PART-A	F	4.0.5 - FEB. 2021	Poti Port	GE
<input type="checkbox"/>	3871	MAIN	F	4.0.5 - FEB. 2021	Batumi Port wit...	GE
<input type="checkbox"/>	3876	PART-A	F	4.0.5 - FEB. 2021	Port Kulevi	GE

Acknowledgement to GE and RO for the readiness after BASWG!



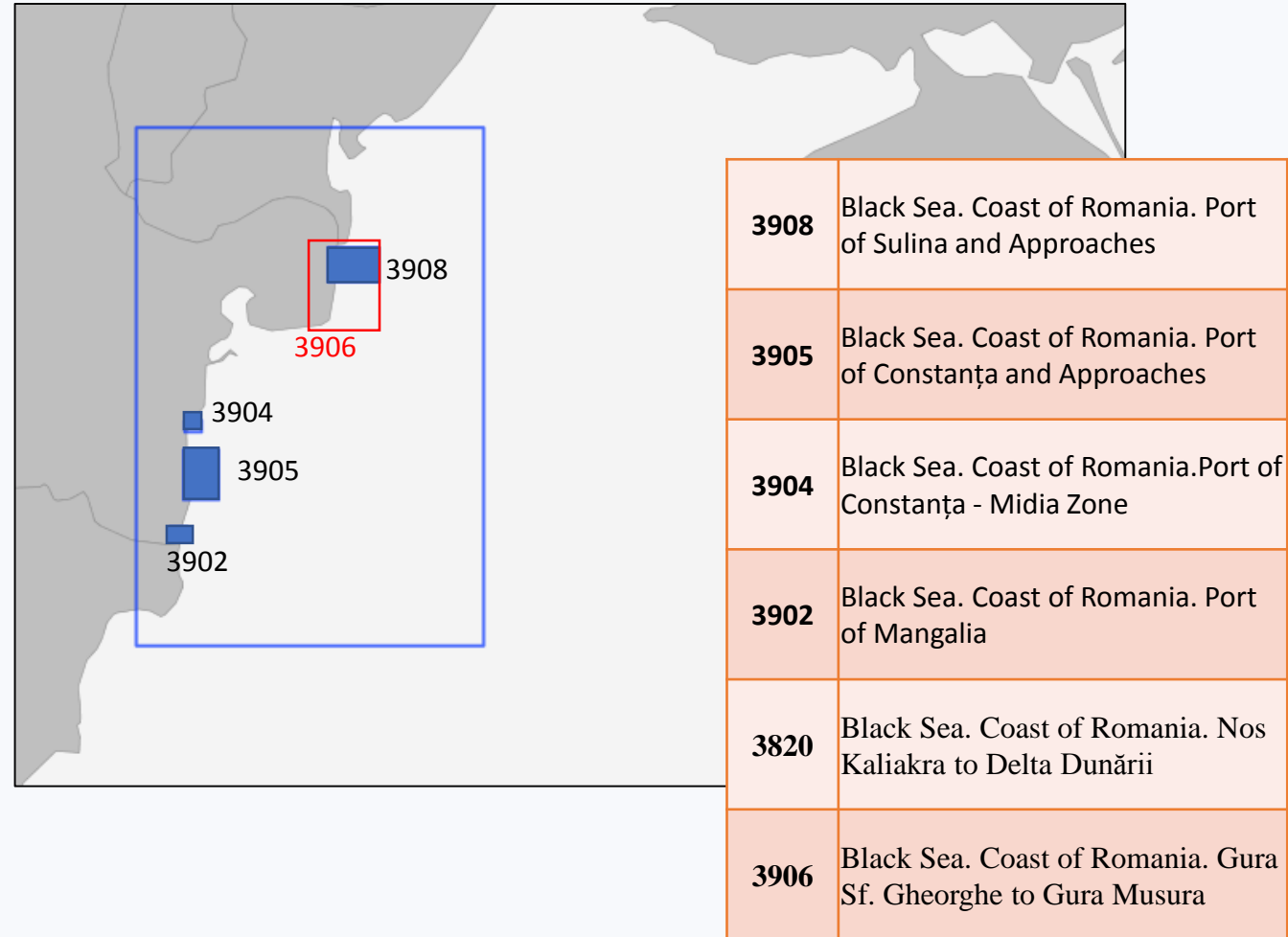
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INT Charts Updates - RO

- Request from RO to update INT Charts metadata
- **INT 3906 submitted for approval after BASWG** (correct number is INT 3907 as stated in Region F CL 04/2015 – on going update)



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INT Charts scheme proposed action/recommendation

Action/Reccomandation N°	Action	Responsible	Update/Comment
ICC6/15	New INT chart producers to provide Region F ICC with the INT charts iaw IRCC7 Decision3.	All - New INT producers	Permanent
ICC6/16	MS to check and, if necessary, update their INT charts metadata (chart limit, title, year, format, scale, etc.) included in the region F INT catalogue using their INTOGIS national account.	INT producers	Permanent
ICC/17	Inform the MBSHC that all the already schemed charts of the Black sea are produced	RCC	MBSHC22



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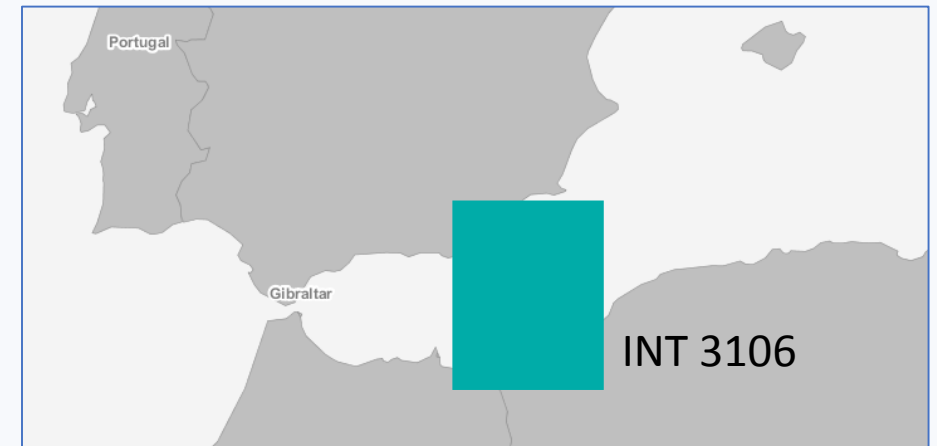
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INT Charts pending activities – ES

Action N°	Action	Responsible	Update
MBSHC20/37	ICCWG-F to confirm the transfer of INT3102, INT3108, INT3110 and INT3112 to the Western Mediterranean small scale INT scheme (see decision MBSHC20/06).	ICCWG-F	Transfer confirmed. These « General » charts will remain in the INT scheme after production of the schemed « Coastal » INT charts by ES.

- No updates received since MBSHC21 by ES
- INT3106 (coproduction ES-DZ) is pending in the INTToGIS system



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INT Charts scheme proposed action/recommendation

Action/Reccomandation N°	Action	Responsible	Update/Comment
ICC6/18	ES to inform the RCC about the transfer of INT 3102, INT3108, INT3110 and INT 3112 to the western Med small scale INT chart scheme and submit changes to the INTToGIS catalogue accordingly	ES	ICC7/MBSHC23
ICC6/19	ES/DZ to inform the RCC about the co-production of INT3106	ES,DZ	ICC7/MBSHC23



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INT Charts scheme in the Aegean Sea

- During IRCCWG, RCC informed the ICCWG that the Item is no more at RCC level and that it should be discussed at MBSHC22 (see modification to decision 21/03)
- TR considers the topic already closed and GR not
- GR showed a revised proposal of INT scheme
- RCC indicated to submit it officially following the ToR&RoP
- After the meeting ES informed the RCC by email that the matter is: “resolved following the modification to Decision 03/21”

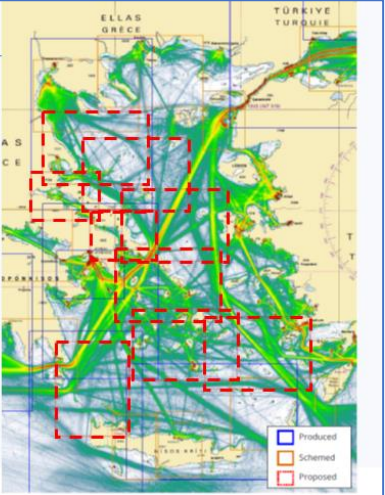
[ICC5-3] – Region F INT Scheme

- **Proposal to update the Region F INT scheme in Aegean sea**

9 new INT charts proposed by GR

Strong objection from TR, based on matters of disputed jurisdiction over some water areas.

The Coordinator’s view is that the issues raised are of a non technical nature (see ROPs section 3.7), and recommends that the MBSHC should approve the proposal of introducing those charts in the scheme, and assign production to GR, except for INT3736 in the South-East corner, to be assigned to GR & TR



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INT Charts – pending activities UA-RF

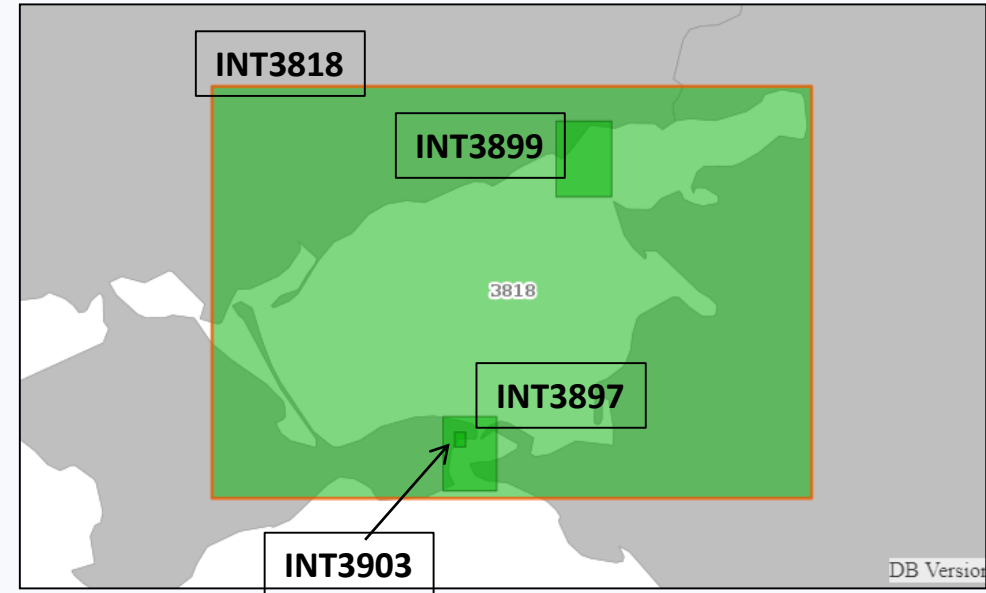
Requests from UA to produce 4 INT Charts

3818	Sea of Azov	New
3897	Kerchenska Strait	New
3899	Approaches to Mariupol Port	New
3903	Kerch Port	New

- No agreement between RU and UA about production of these charts.
- Currently not assigned on INTToGIS, **no updates received** on these 4 charts in the last 5 years

MBSHC21: *“The Coordinator recommends that these charts, submitted by UA in INTToGIS should be left pending until UA and RU reach an agreement”*

BASWG15/ICCWG6: No updates



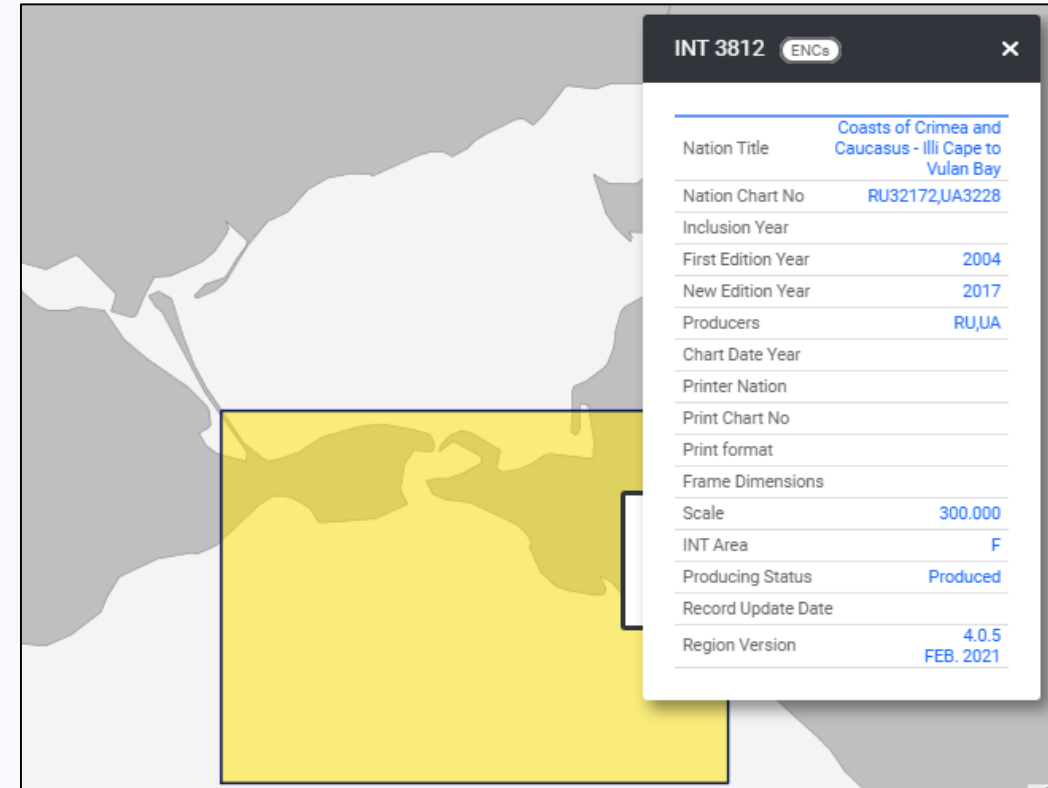
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INT Charts – pending activities UA-RF

- **INT3812** (Agreed INT Scheme)
- Should be co-produced by RF (RU32172) and UA (UA3228)
- BASWG14: UA reported that the co-production is not effective
- UA reissued the INT3812 chart in Sept. 2017 (First Edition 2004)
- **BASWG15/ICCWG6**: No updates



Scale 1 : 300 000 – No higher scale available



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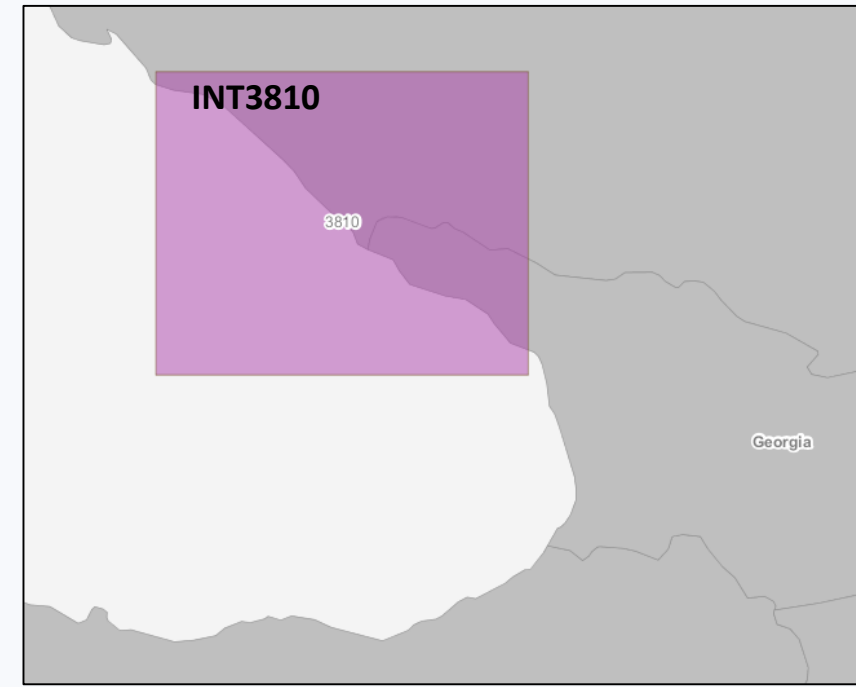
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INT Charts – pending activities GE-RF

Requests from GE to produce **INT3810** (BASWG 13/05)

3810	Caucasian coast. Bukhta Vulkan to Port Ochamchira	Modify
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- INT3810 is currently produced by RF (RU 32173)
- BASWG13 : It was agreed that GE to liaise with RF regarding co-production of INT3810 and INT3875 and report back to the Region F ICC at the next MBSHC meeting
- BASWG14 : GE reports no progress towards a co-production of this chart
- MBSHC21 : no agreement between RF e GE
- **BASWG15/ICCWG6:** No updates



Scale 1:300 000

Action N°	Action	Responsible	Update
MBSHC21/33	RF and GE to work on an agreement for the co-production of INT3810 and report to the Region F ICC	Rf and GE	<i>No updates</i>



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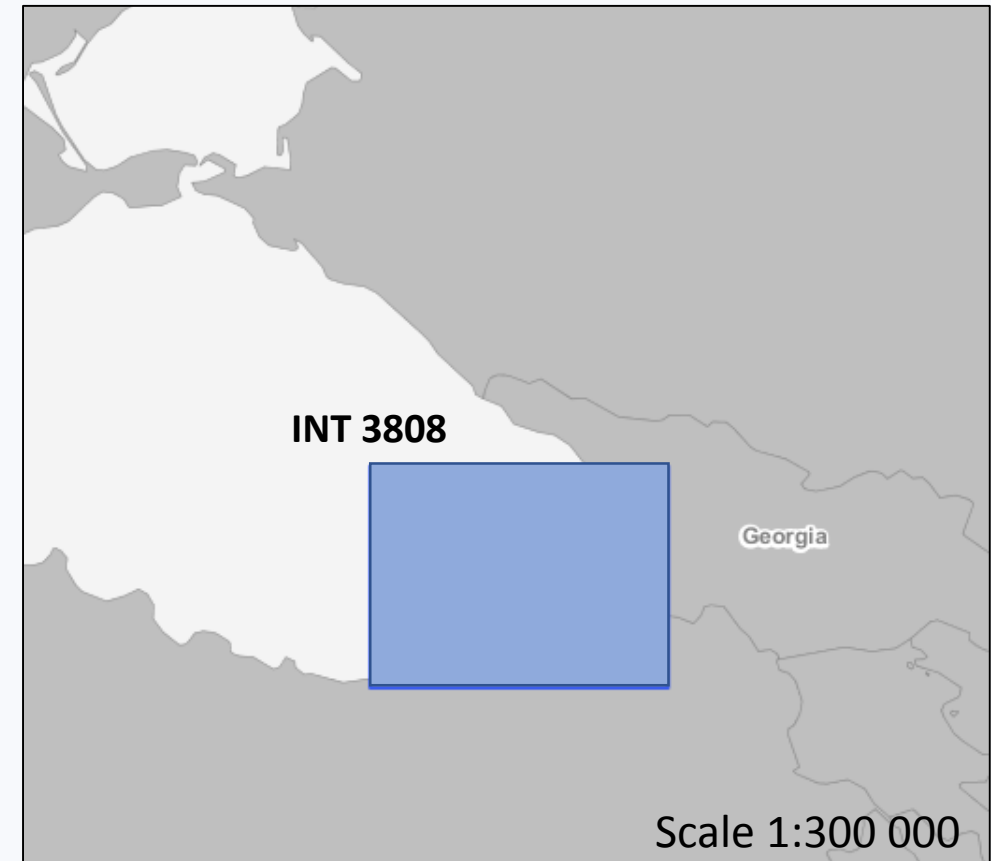
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INT Charts – pending activities GE-TR-RF

Co-production of INT3808 (BASWG13/06)

Action N°	Action	Responsible	Update
MBSHC21/34	RU to provide assigned producers (TR and GE) with repromats of their updated charts coresponding to INT3808 and with updating information for ENC TR200014	RF	ON GOING

- **BASWG15:** action is on going, expected exchange of data between MSs at the end of 2021



3808	Port Ochamchira to Port Tirebolia
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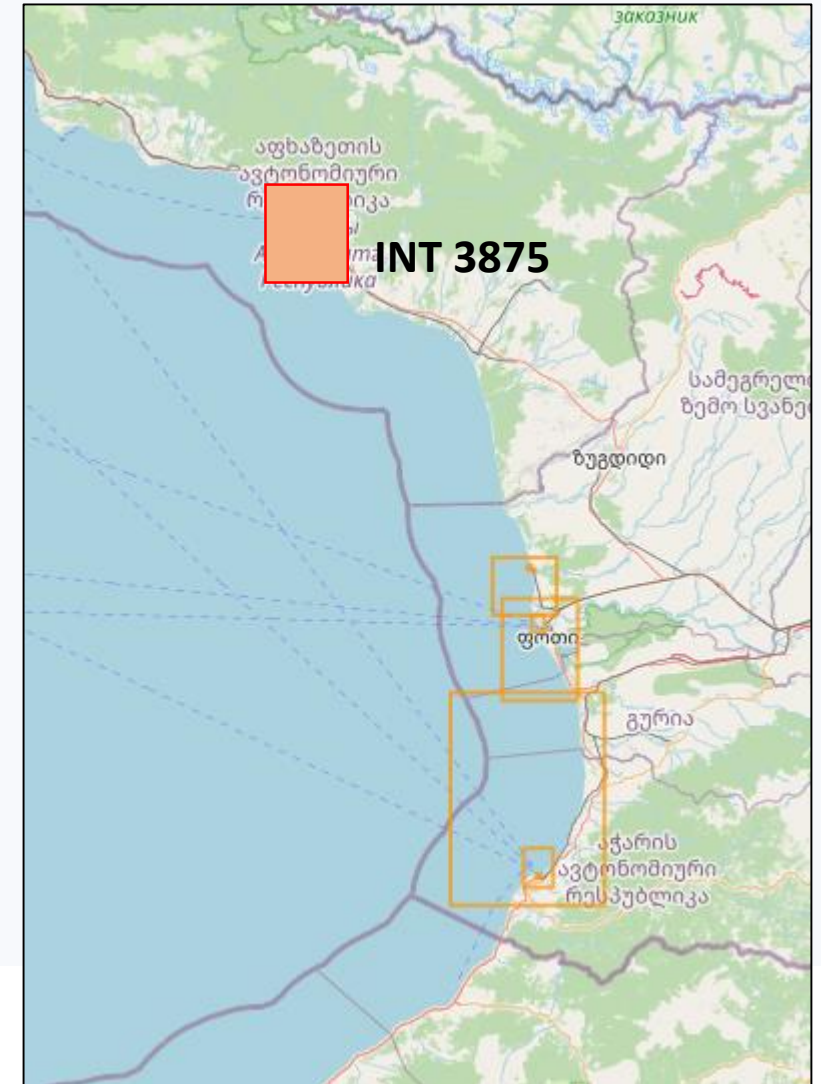
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INT Charts – pending activities GE-RF

- Request from GE to produce the INT chart covering **Soukhumi port** with Approaches (GE108) (BASWG13/05)
 - 2009 : MBSHC19, RF proposed to abort producing this chart due to lack of information
 - BASWG recommended to wait until GE is a full IHO member to achieve the transfer
 - 2015 : GE became an IHO Member
 - 2016 : Region F IRCCWG CL 01/2016, RF objected to the transfer of production to GE
 - Due to lack on consensus on this chart, **INT3875** is currently not assigned

BASWG15: GE informed that there is no more interest in this co-production -> Action item concluded



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INT Charts scheme proposed action/recommendations

Action/Recommendation N°	Action	Responsible	Update/Comment
ICC6/21	Recommend to the MBSHC that INT Charts 3918, 3897, 3899, 3903 submitted by UA in INTToGIS should be left pending until UA and RU reach an agreement.	RCC	ICC7/MBSHC23
ICC6/22	UA and RF to liaise with regards to pending INT charts (INT 3812, INT 3818, INT 3897, INT 3899, INT3903)	UA, RF	ICC7/MBSHC23
ICC6/23	RF and GE to work on an agreement for the co-production of INT3810 and report to the Region F ICC	RF, GE	ICC7/MBSHC23



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INT Charts scheme proposed action/recommendations

Action/Recommendation N°	Action	Responsible	Update/Comment
ICC6/24	Inform the MBHSC that action regarding INT3875 should be canceled as GE has expressed the intention not to go further with the co-production (see BASW15)	RCC	MBSHC22
ICC6/25	RF to provide assigned producers (TR and GE) with repromats of their updated charts corresponding to INT3808 and with updating information for ENC TR200014, Keeping RCC informed.	RF	December 2021
ICC6/26	GE and TR are invited to update INTToGIS metadata once the chart INT3808 is finalized	GE, TR	ICC7/MBSHC23



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Final considerations

- Significant increase in the of MSs production and updating activities in producing ENC's, solve overlaps and complete/update the INT Charts scheme
- **ICCWG priorities:** ENC's, Quality of data, INT charts scheme, S-1xx
- **Role of the ICC Coordinator for the future:** International “Services” Coordinator? Is this too much?
- Need for guidelines in order to quantify the “burden” for RCC/HOs in relation to new IHO strategic goals to be achieve that have impact at the technical level



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INT Charts scheme proposed action/recommendations

Action/Recommendation N°	Action	Responsible	Update/Comment
ICC6/28	<p>Recommend to the MBSHC chair to report to the IRCC meeting that:</p> <ul style="list-style-type: none"> • guidelines are needed by the ICCWG for the implementation of the S-1xx framework of services • some concerns were reised by MS about the sustanability of the implementation of the road map (also in consideration of other activities regarding S-57 ENC scheme and INT Charts) • Rethink the role of RCC with refernce to the future S-1xx « burden » 	MBSHC Chair	MBSHC23/IRCC
ICC6/27	RCC to request the MBSHC Chair to provide guidance to the ICCWG with regards to the implementation of the IHO strategic plan with specific regards to technical aspects	MBSHC Chair	MBSHC22



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Actions requested

- Take note of the RCC report
- Take note of the proposed actions and recommendations



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