6th Region FICC WG meeting

ICCWG6-2

ENC Coverage status – ENC overlaps risk assessment

VTC, 25th May 2021

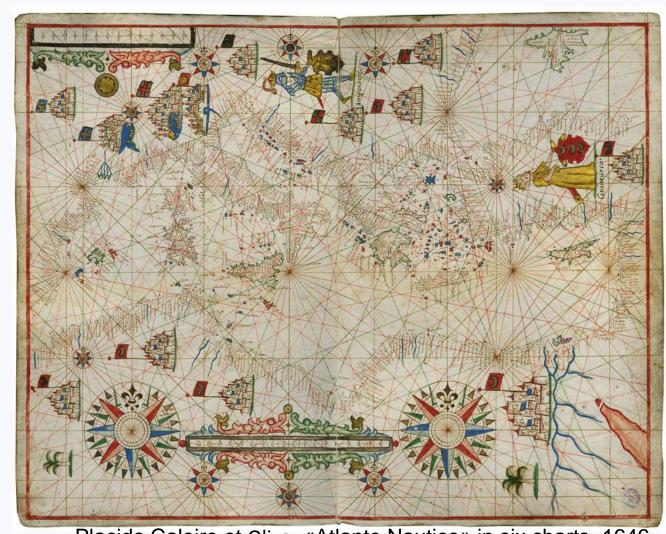
Region F ICC Coordinator

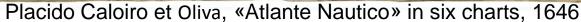
Lt. Cdr. Marta PRATELLESI (Italy)



Preliminary considerations

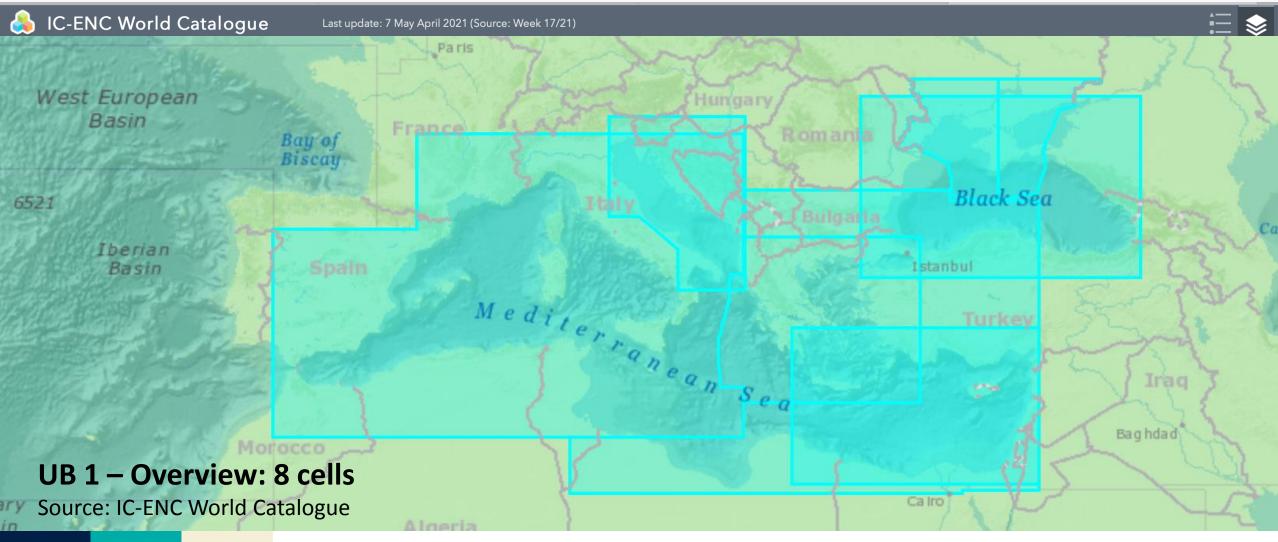
- Analysis of the status of the ENCs coverage at different UBs
- Overlaps analysis and risk assessment
- INToGIS catalogue ver. 4.0.27
 May 2021
- For each topic: proposed actions and recommendations



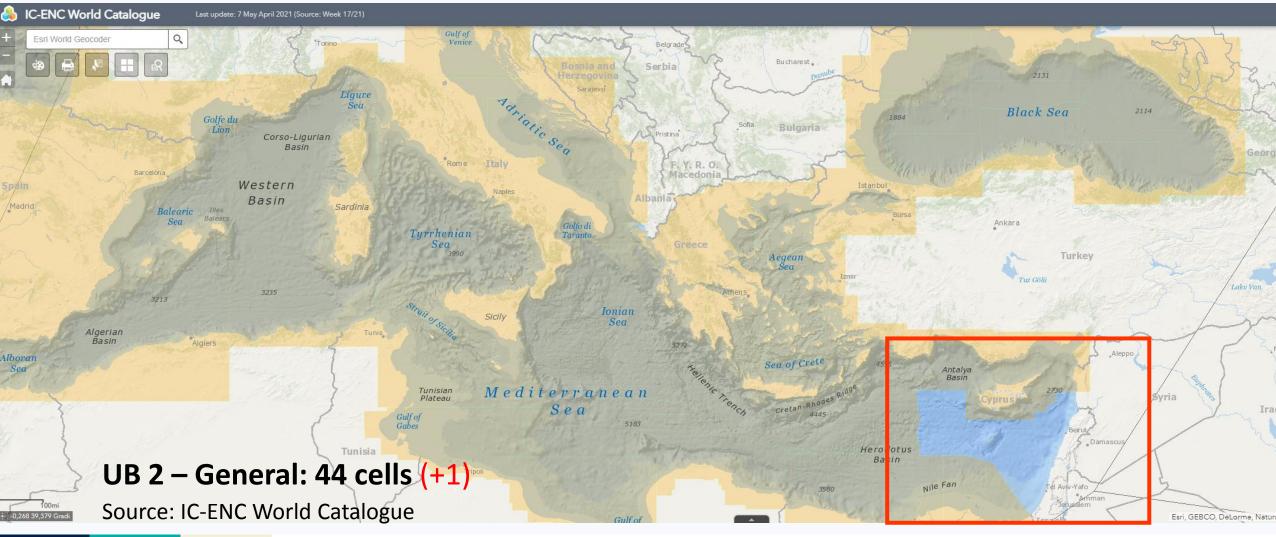




Status of ENCs coverage – UB 1 - Overview

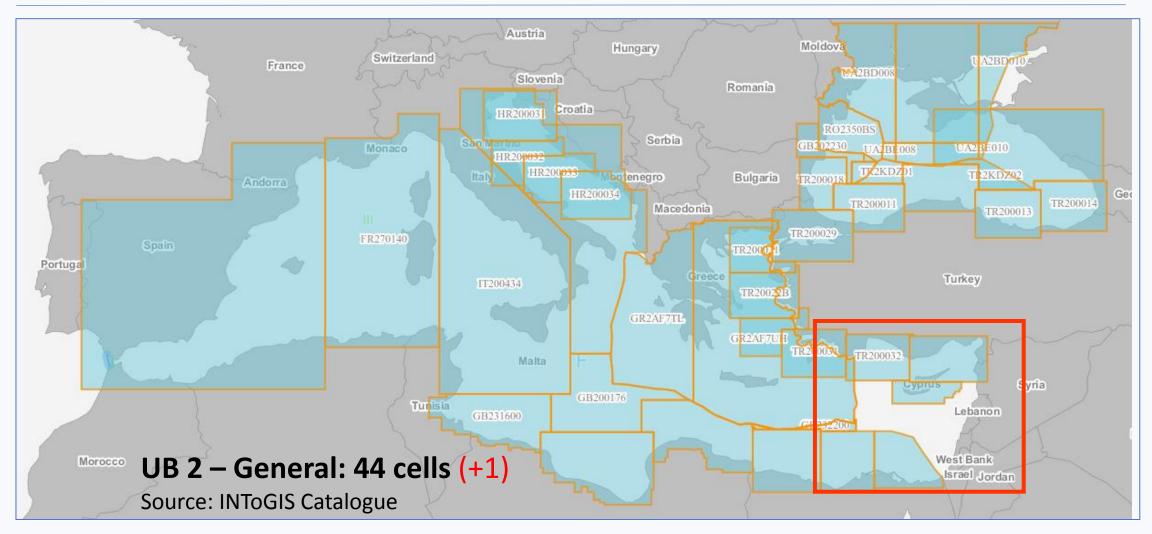


Status of ENCs coverage – UB 2 - General



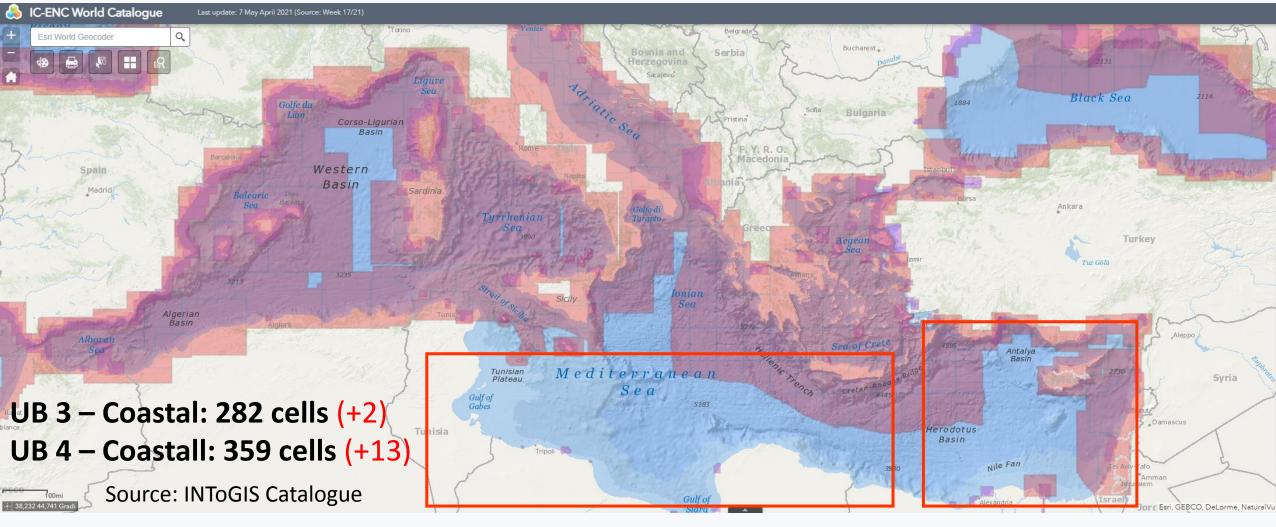


Status of ENCs coverage – UB 2 - General





Status of ENCs coverage – UB 3/4 Coastal/Approach





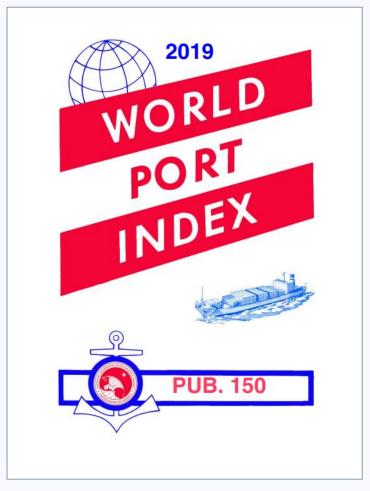
Status of ENCs coverage – UB 5/6 Harbor/Berthing

- NGA si working to update the Port List together with the IHO
- MBSHC21 imputs about port list not applied yet



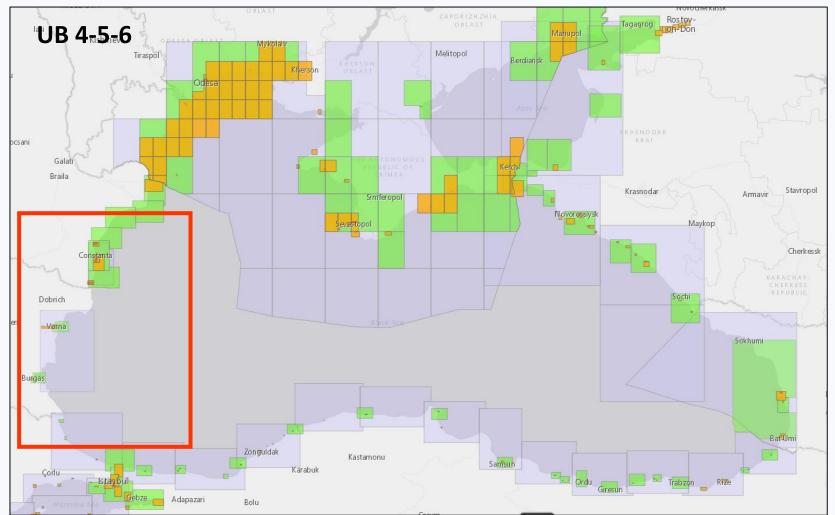
Proposed action: To be ready to update the port list once NGA will complete the updates in the INToGIS

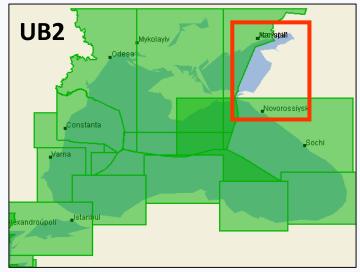
| Action N° | Action | Responsible |
|------------|--|-------------|
| MBSHC21/28 | MS to use the IHO online port database to update their port priority list and report to the Regional Charting Coordinator (RCC). | All |

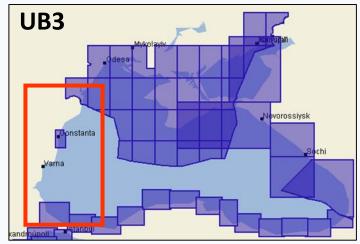




Status of ENCs coverage - Black and Azov Sea

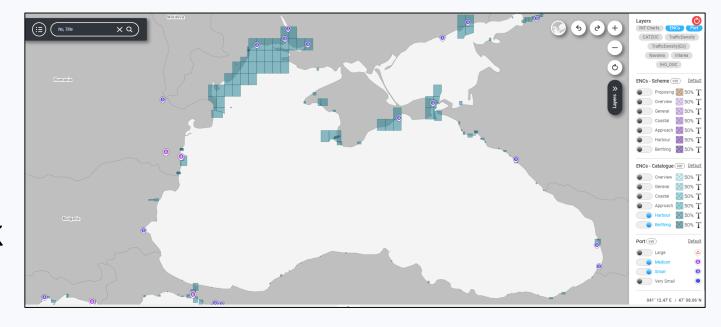






Status of ENCs - Coverage

- UB1 and UB2 coverage considered as completed
- UB3 coverage with gaps on the Western part of the Black Sea



• **UB4/5/6**: NGA World Port Index (Pub150) covered – additional ports to add through MSs analysis

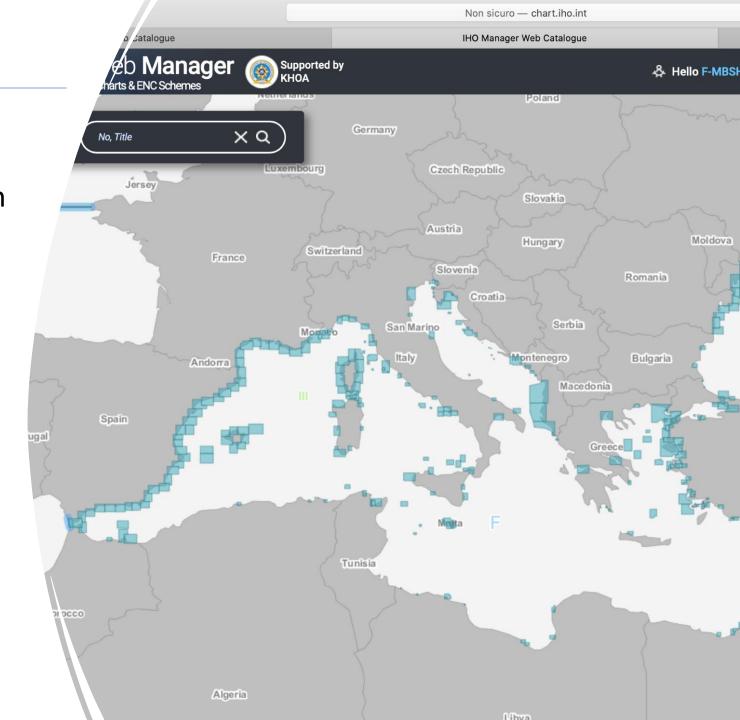


General assessment

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

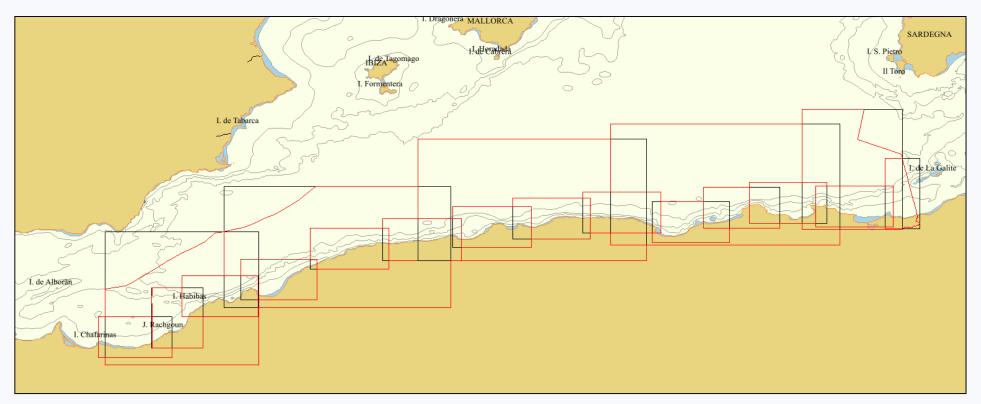
Proposed Action: MSs to complete the ENC scheme and provide RCC with their ENC production plan for UB 4-5-6





Algerian New ENC Scheme

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





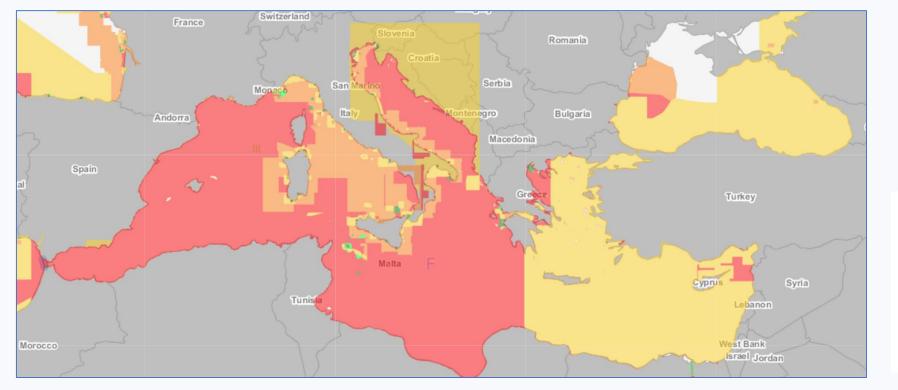
"Status of ENCs" proposed action/ recommendations

| Action/Recommendation 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- | 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 to be ready to use the IHO online port database to update their port priority list 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 |



Status of ENCs "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 | No significant updates, decreased n° of areas of UNASSESSED Quality of Bathymetric Data |

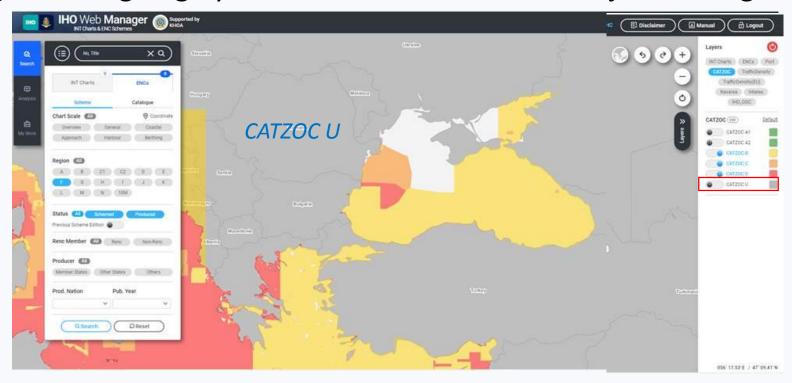






Status of ENCs "Quality" - CATZOC

- Result of the INToGIS 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 INToGIS 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 INToGIS CATZOC | RCC | September 2021 |

"Quality of ENCs" proposed action/recommendation

| 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 |

"Good data quality does not mean that the quality of data has to be good. It means that the end user is well informed in how the quality of data is"

This statement is about a SPECIFIC RESPONSABILITY of HOs and it was endorsed by HSSC and IRCC



ENCs overlap - actions

| Action N° | Action | Responsible | Update |
|------------|---|-------------|--|
| MBSHC21/27 | Concerned MSs to liaise bilaterally to resolve ENC overlaps, keeping the MBSHC Chair informed. | All | Very good progresses noted |
| MBSHC21/30 | RENCs to provide a template report in order to collect the evaluation of risk level on ENC overlaps from the MS in the frame of the WENDWG risk assessment. | RENCs | Latest version sent to all ICCWG Members – e-mail Region F coordinator dated 23rd February 2021 |
| MBSHC21/31 | MS to use the RENCs' template report to provide the RCC with: evaluation of risk level on the most critical ENC overlaps based on the IC-ENC risk assessment regional database (level: MEDIUM); their views and comments on the IC-ENC risk assessment methodology. | All | Feedback received from UA , GR , IT , SI , HR , UK , EG , ES |



ENCs Overlap – Resolution 1/2018

IHO Resolution 1/2018 – Elimination of overlapping ENC data in areas of demonstrable risk to the safety of navigation

| Elimination of overlapping ENC data in areas of | 1/2018 | IHO CL 19/2018 | |
|---|--------|----------------|--|
| demonstrable risk to the safety of navigation | | | |

- It has been reported that overlapping ENC data, when used in ECDIS equipment, may lead to unpredictable behaviour in at least the following cases:
- overlapping data occurring in the same usage band (Navigational Purpose);
- overlapping data occurring in ENC cells in different usage bands (Navigational Purposes) but using the same compilation scale.

ENCs Overlap – Resolution 1/2018

 Region F Charting Coordinator reports to ENC producers the "highest" risk overlapping cases in accordance with IHO resolution 1/2018 (RENCs assessment dated Feb 21 – ICCWG-02B)

• MSs responsibility → IDENTIFY – PREVENT – RESOLVE (demonstrable risk)

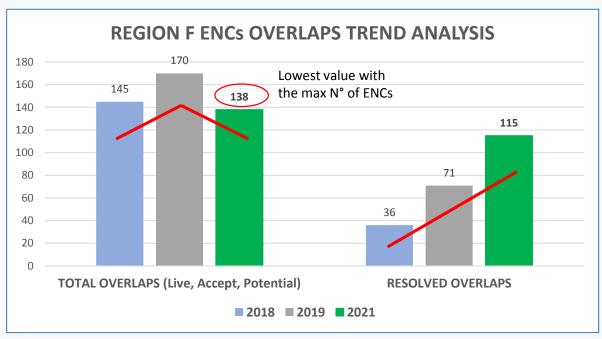
• ENC producers are reminded, in accordance with WEND principles, that all overlaps must be resolved (at least within one year)

Dialogue between parties involved must be strengthened



Status of ENCs – Region F overlap assessment

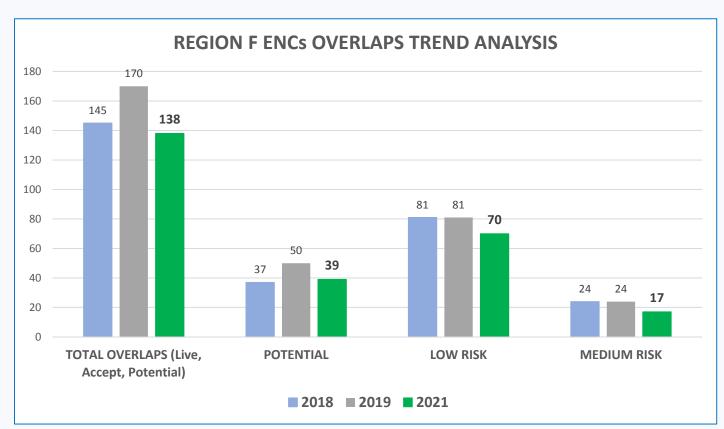
| Region F | March 2018 | June 2019 | June 2021 |
|---------------------------|------------|-----------|-----------|
| Resolved | 36 | 71 | 115 |
| Accept | 3 | 15 | 12 |
| Potential | 37 | 50 | 39 |
| LOW | 81 | 81 | 70 |
| MEDIUM | 24 | 24 | 17 |
| HIGH | 0 | 0 | 0 |
| Total overlaps (L,P,T) | 145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



- Results of the ENCs 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

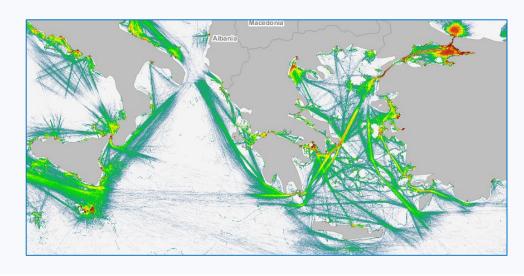


Status of ENCs – Region F overlap assessment



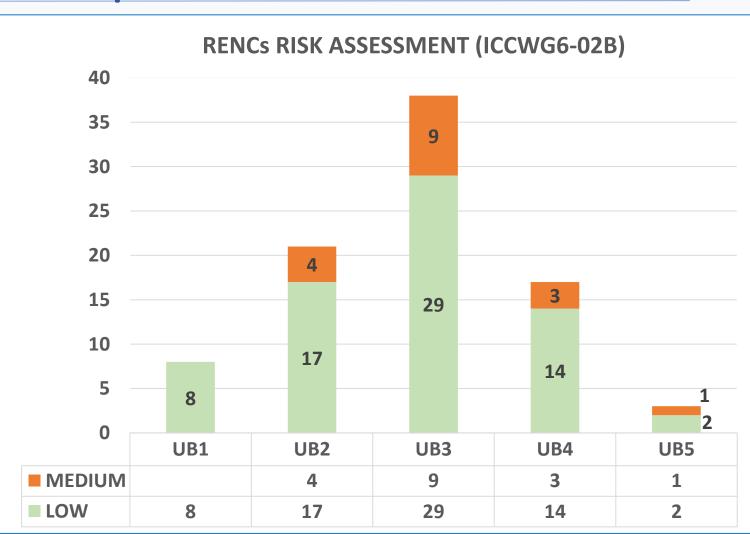
Monitoring mechanism at the RENCs level is working

- Resolved and Acceptable overlaps 7
- Live Low and Medium overlaps
- Potential overlaps
- Risk assessment by MSs take into account Marine Traffic in the area





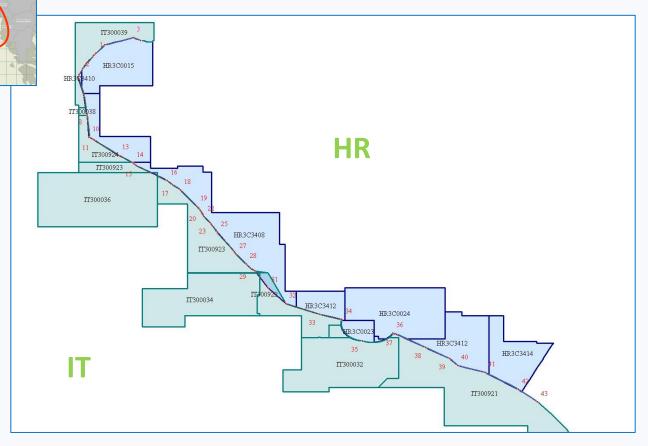
- MSs that provided a feedback to the RCC generally confirmed RENCs risk assessment
- Higher number in UB3
- Only "LIVE" Medium risk overlaps will be analyzed
- MSs already resolved some "potential" overlaps





Status of ENCs – Solved overlaps and gaps

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



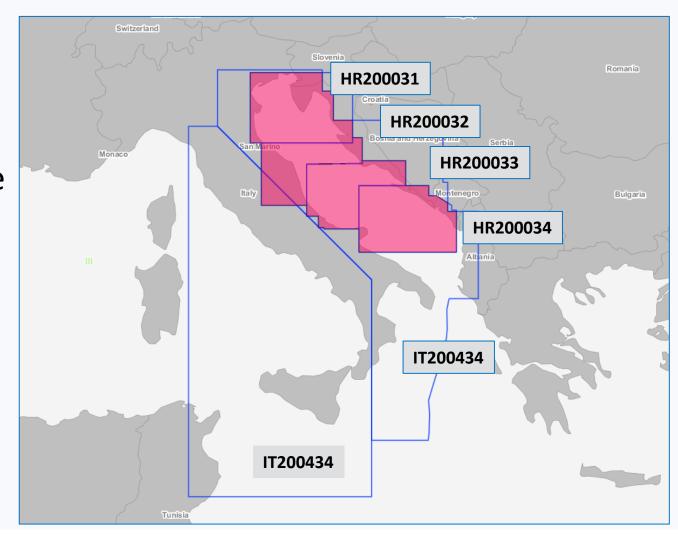
- UB3 overlaps in the Adriatic Sea are solved
- Delimitation agreed by Ms
- There is not a "right" scheme but the "BEST AGREED" Scheme
- Dialogue is the key!

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

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

IC-ENC Risk analysis → Medium

MSs Risk analysis → Low

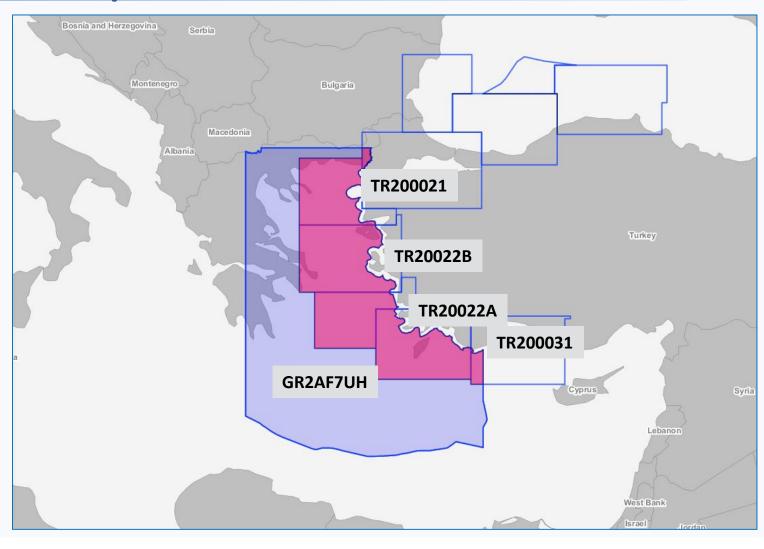




Highest risk case: General charts of the Aegean Sea overlaps (GR-TR)

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

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





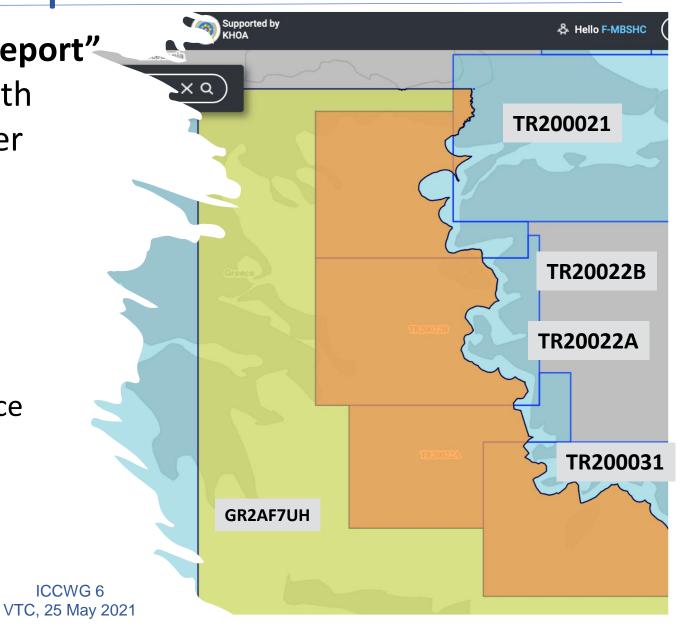
 GR provided a "risk assessment report" (posted on the ICC6 web page) with technical comments and also other considerations

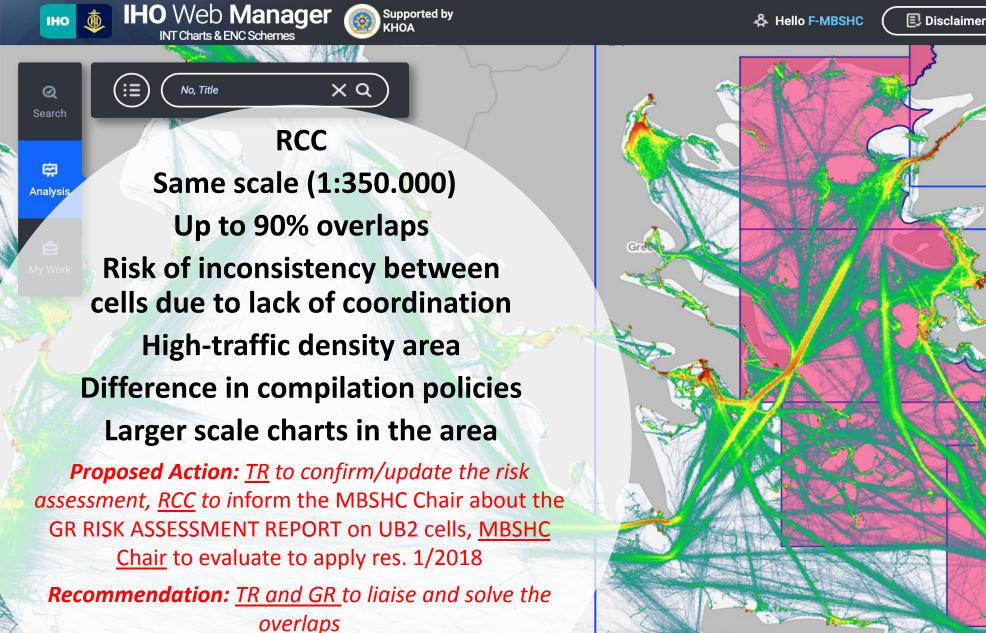
GR Risk analysis → High

- Consistency issues
- Different compilation policies
- Quality of Data
- Updating capability and maintenance
- Overlapping extent

TR Risk analysis → Low (2017)









≛ Manual

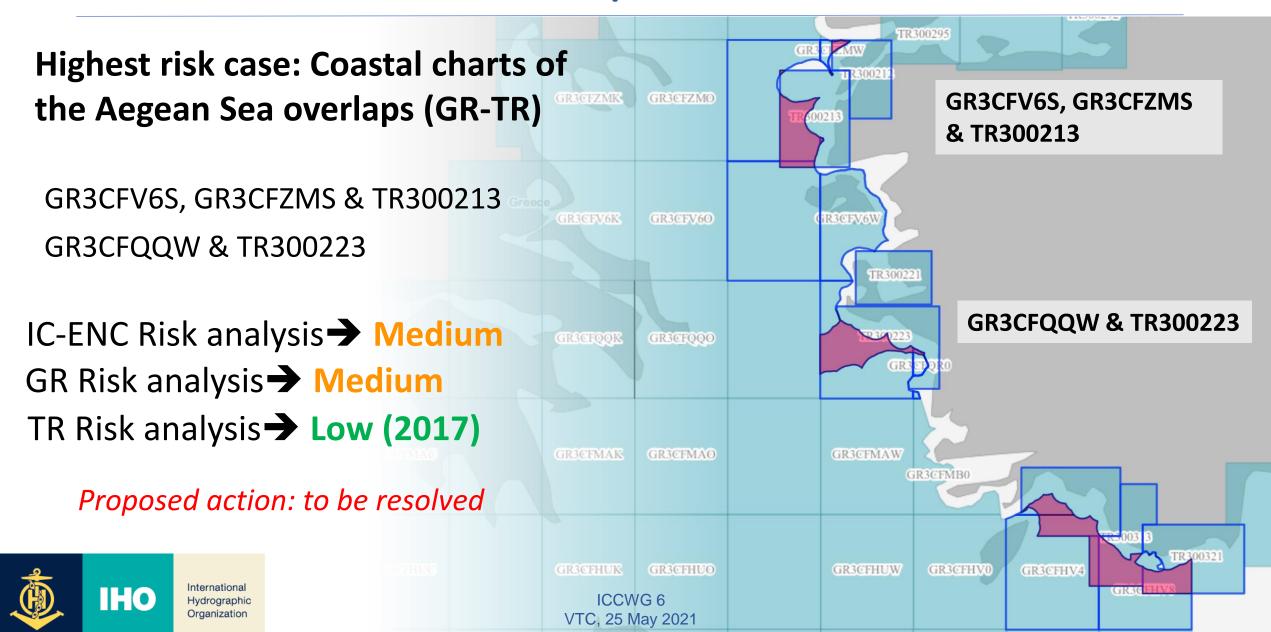
⊞ Logout

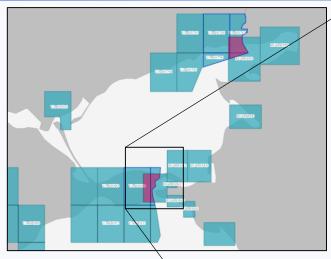
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DB Version

INT chart: 4.0.27 - May. 2021

ENCs scheme : undefined ENC catalogue : 14 May 2021

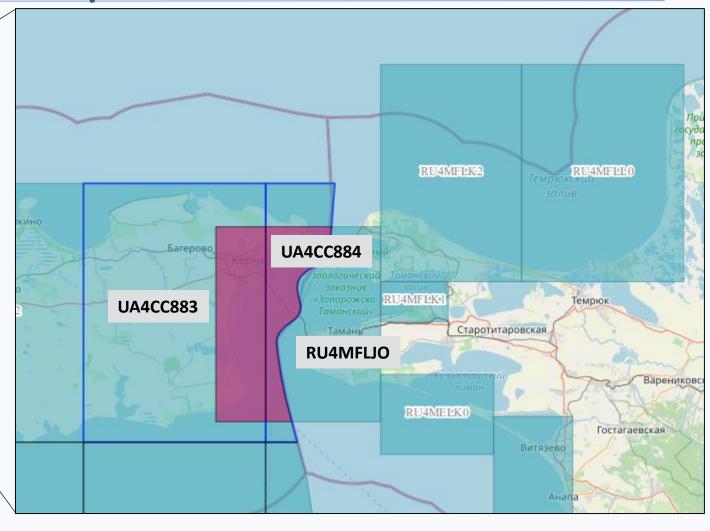




Highest risk case:

RU4MFLJO & UA4CC883 RU4MFLJO & UA4CC884

IC-ENC Risk analysis → Medium

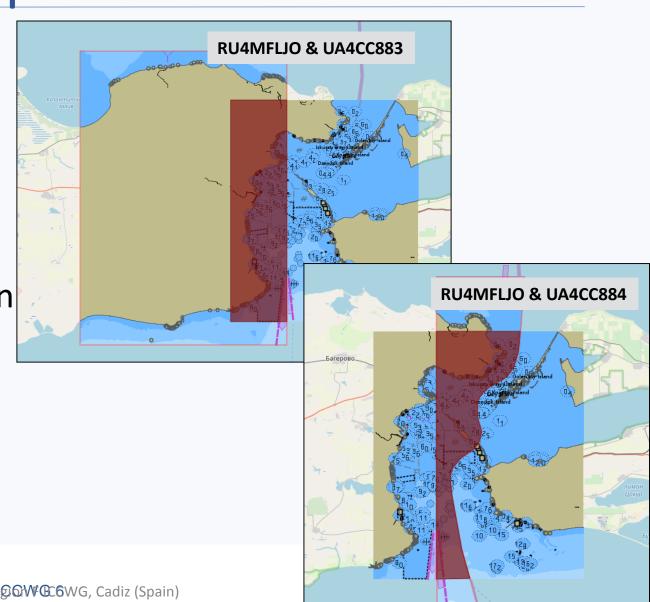




Highest risk case:

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
- Proposed action: to be resolved

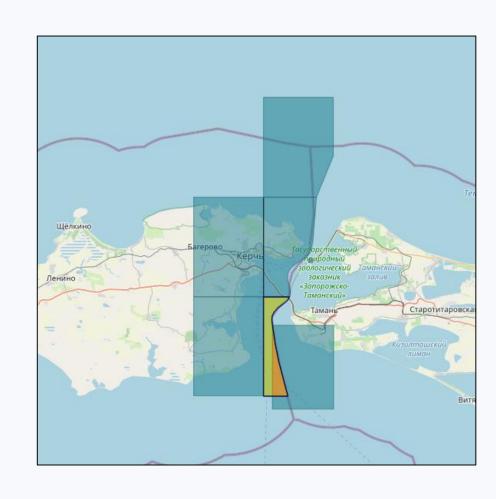




Highest risk case:

RU5MELJO & 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
- Proposed action: to be resolved



Highest risk case

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

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

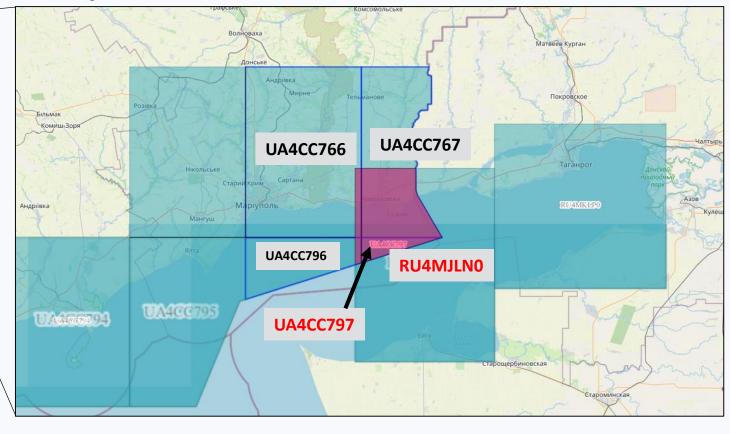
Proposed action: to be resolved





RU4MJLN0 & UA4CC796 & UA4CC797 & UA4CC767

- Up to 100% overlap
- Proposed action: to be resolved
- IC-ENC Risk analysis → Low (includes a busy traffic area, Content is consistent)





"ENCs overlap" proposed action/recommendations

| Action/Recommendation 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 used 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 |
| ICC6/10 | Inform the MBSHC22 about the GR RISK ASSESSMENT REPORT about UB2 cells and that there is no consensus with regards to the ENC overlaps risk evaluation in the area (apply res 1/2018) | RCC | MBSHC22 |
| ICC6/11 | TR to confirm/update the risk assessment provided (2017) about ENC overlaps | TR | MBSHC22 |



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 |
|--------------------------|--|-------------|------------------|
| ICC6/12 | 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 |



Final considerations

- ICCWG priorities:
 - Full implementation of the ENC scheme
 - CATZOC attributions
 - Resolve ENC overlaps
- Increase bilateral cooperation to solve ENCs overlaps
- Increase quality of bathymetric data (CATZOC) through joint efforts and capacity building activities

Action requested

- Take note of the RCC report about ICC6-2 agenda item
- Approve the actions/recommendations list to be presented to the MBSHC22
- Encourages ICCWG MS to provide their national chart catalogue (online access preferably) to the RCC and the IHO Secretariat
- Encourage ICCWG MS to provide RCC with their ENC production plan for UB4-5-6
- Encourage ICCWG MS producers concerned to liaise bilaterally to resolve ENC overlaps

Action requested

- Request ICCWG to register that "highest" risks have been reported to ENC producers (in accordance with IHO resolution 1/2018) and to to MBSHC
- Encourage ICCWG ENCs producers to populate the CATZOC values of their ENCs
- Encourage ICCWG MS to use the IC-ENC template report to provide the RCC with their evaluation of risk level on ENC overlaps
- Request ICCWG ENCs producers to provide information on ECDIS back-up arrangements
- Encourage ICCWG MSs to be prepared to update their port priority list and report to the RCC

