



# 14<sup>th</sup> Meeting of the WENDWG

## **Report of the North Indian Ocean Hydrographic commission (NIOHC)/ NICCWG**

WENDWG14, Norfolk, Virginia, USA, 20 - 22 February 2024



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# **INTRODUCTION/BACKGROUND**

International  
Hydrographic  
Organization

## **Membership**

**Bangladesh, Egypt, India, Myanmar, Pakistan, Saudi Arabia, Sri Lanka, Thailand,  
United Kingdom.**

## **Associate Members**

**Australia, France, Oman, Mauritius, Seychelles, USA.**

## **Observer**

**Malaysia**



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## INTRODUCTION/BACKGROUND

International  
Hydrographic  
Organization

India being a leading hydrographic country in this region, with considerable historic background and expertise, took the lead in the formation of North Indian Ocean Hydrographic Commission (NIOHC) in Jan 2002 with the following primary objectives and aims:-

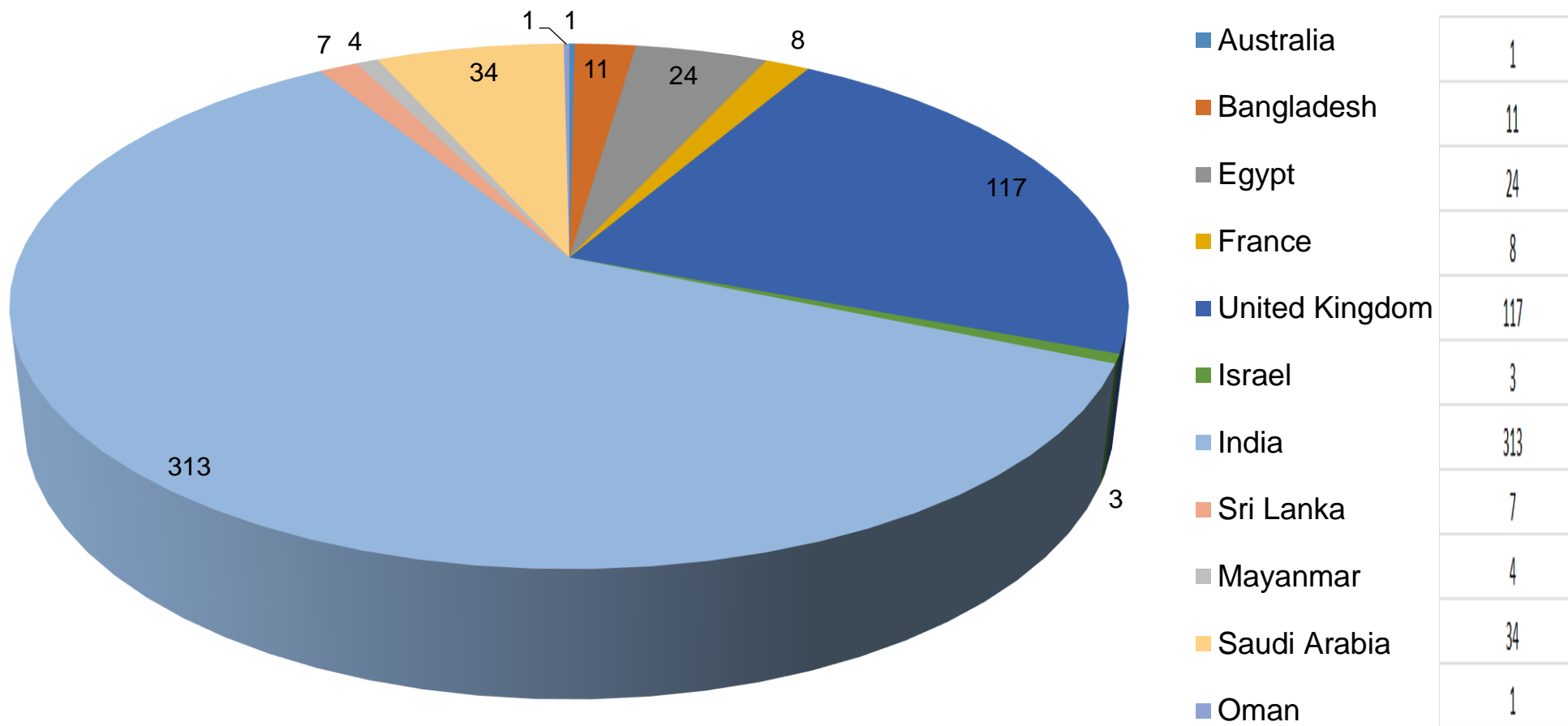
- Mutual co-operation in the field of Hydrographic Survey, Nautical Cartography, Chart Datum, latest surveying and cartographic techniques.
- Coordinating hydrographic resources in the area.
- Creation of Regional Electronic Navigation chart coordinating center and global spatial data infrastructure.
- Conducting joint hydrographic survey of poorly surveyed areas under regional efforts.
- Mutual exchange of hydrographic products and services for marine safety.
- Assist in exchange of technical personnel and training to develop regional expertise.
- Electronic Navigational services, including VTS, DGPS etc.



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# TOTAL NO. OF ENC CELLS (NATION WISE) - AREA 'J'

International  
Hydrographic  
Organization

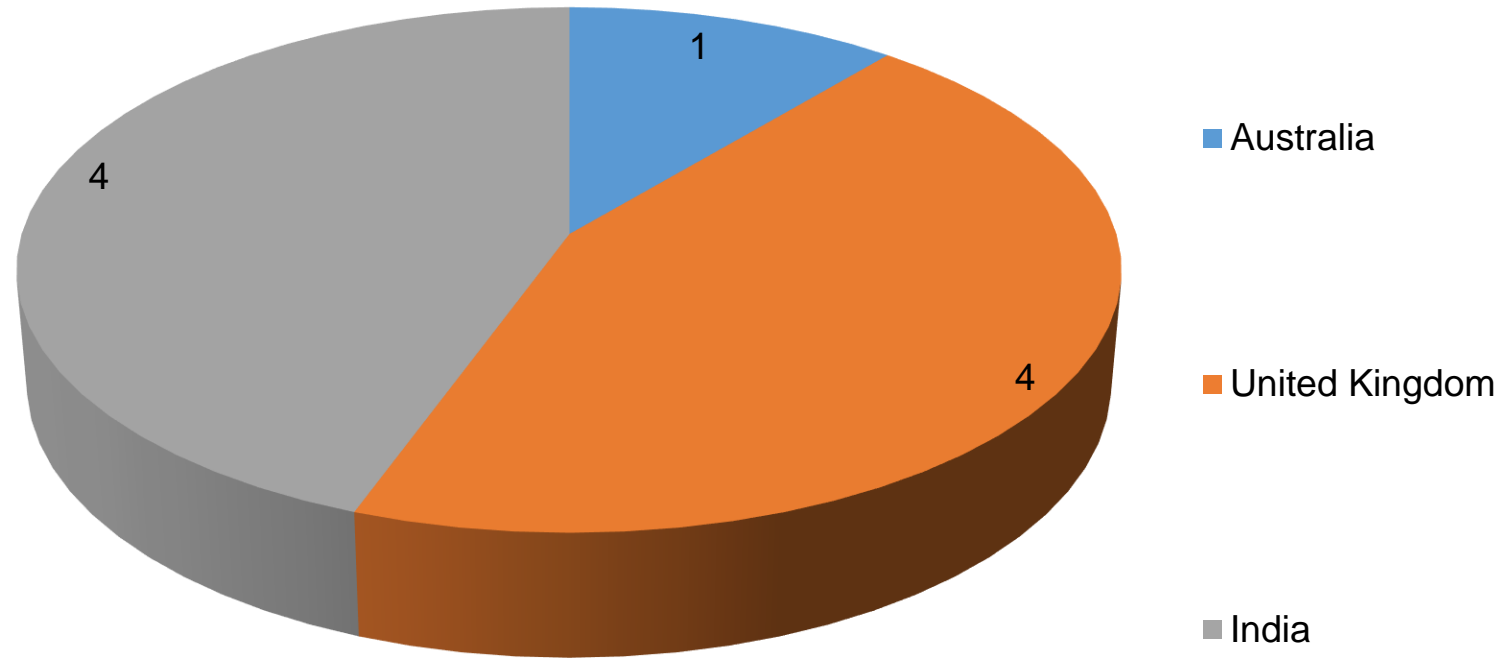




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# TOTAL NO. OF ENC CELLS IN UB-1 - AREA 'J'

International  
Hydrographic  
Organization

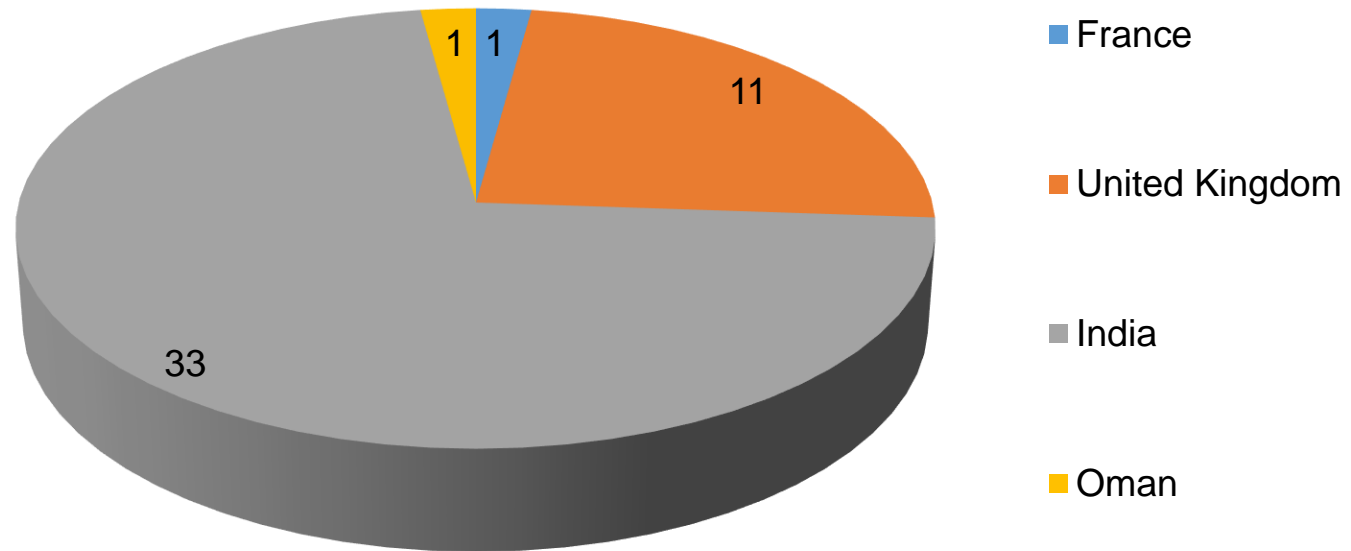




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# TOTAL NO. OF ENC CELLS IN UB-2 - AREA 'J'

International  
Hydrographic  
Organization

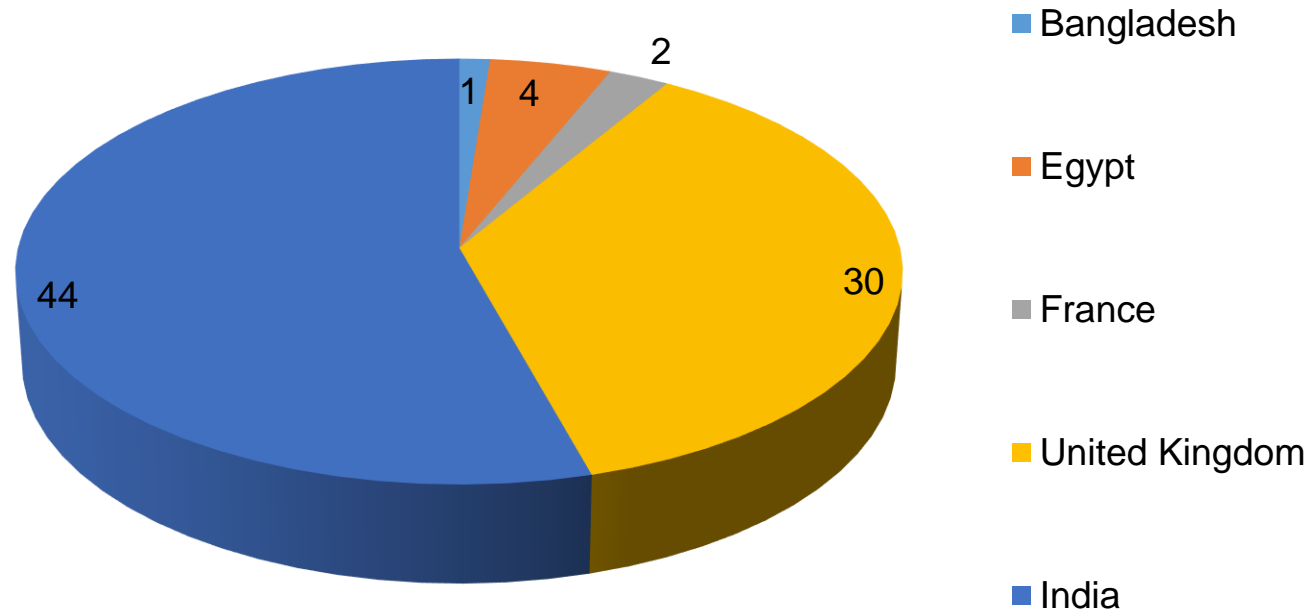




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# TOTAL NO. OF ENC CELLS IN UB-3 - AREA 'J'

International  
Hydrographic  
Organization

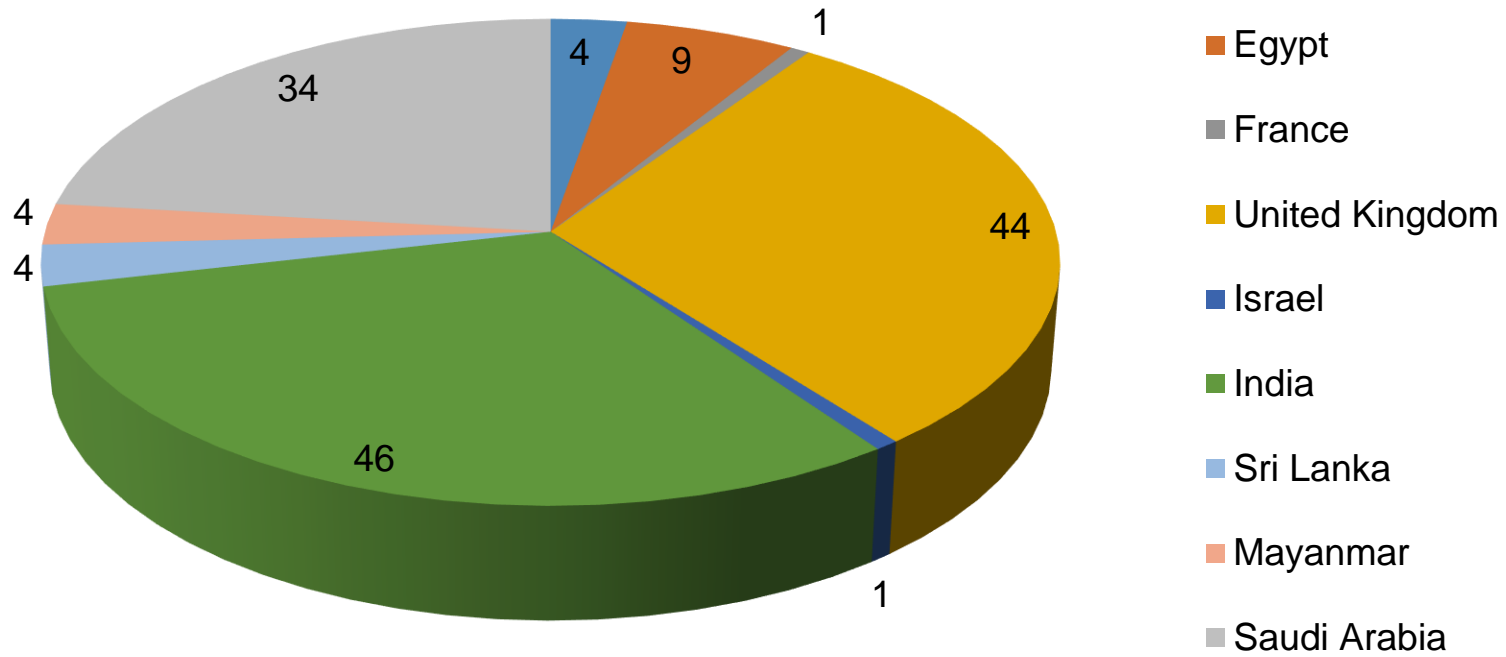




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# TOTAL NO. OF ENC CELLS IN UB-4 - AREA 'J'

International  
Hydrographic  
Organization



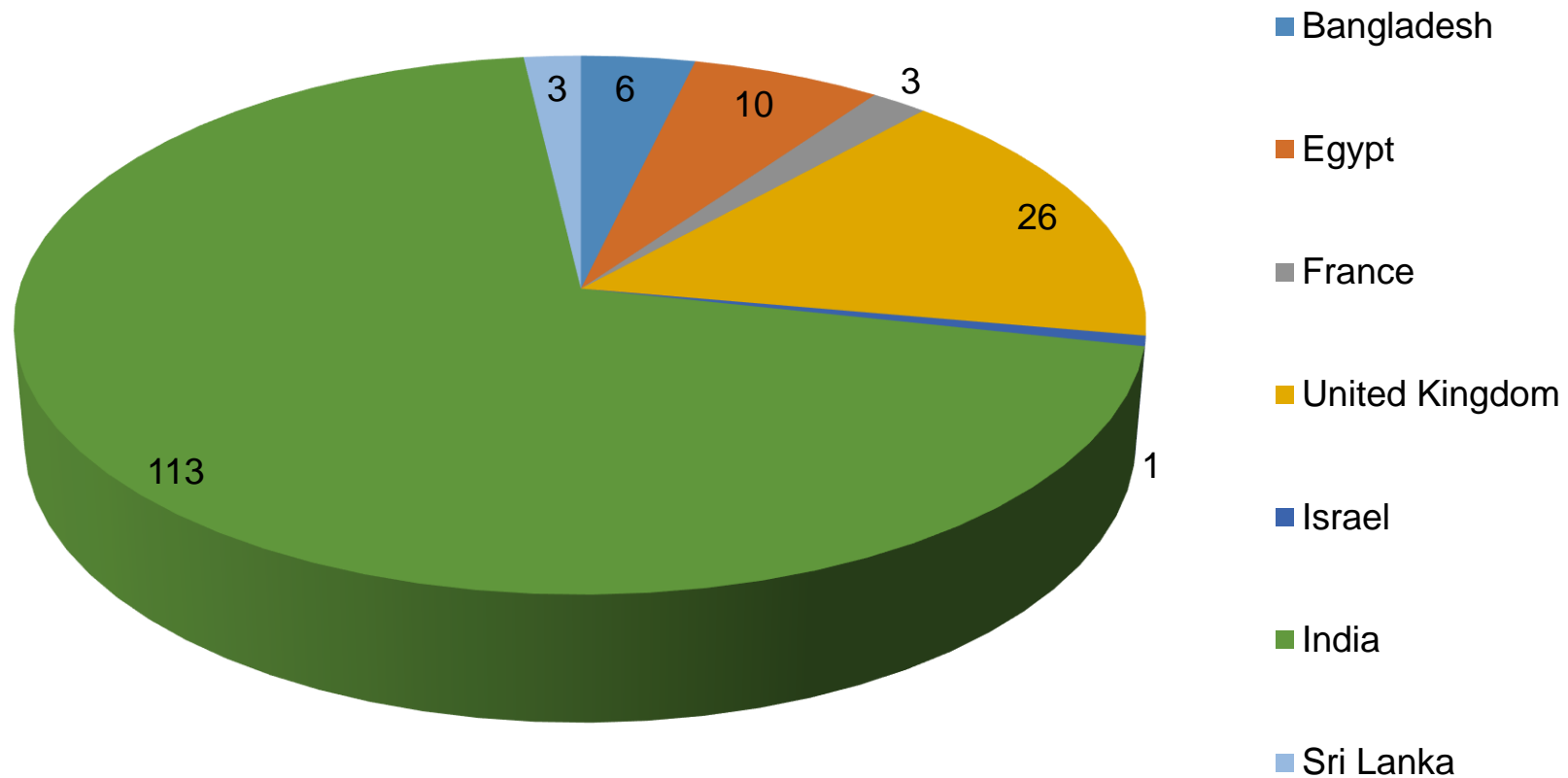




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# TOTAL NO. OF ENC CELLS IN UB-5 - AREA 'J'

International  
Hydrographic  
Organization

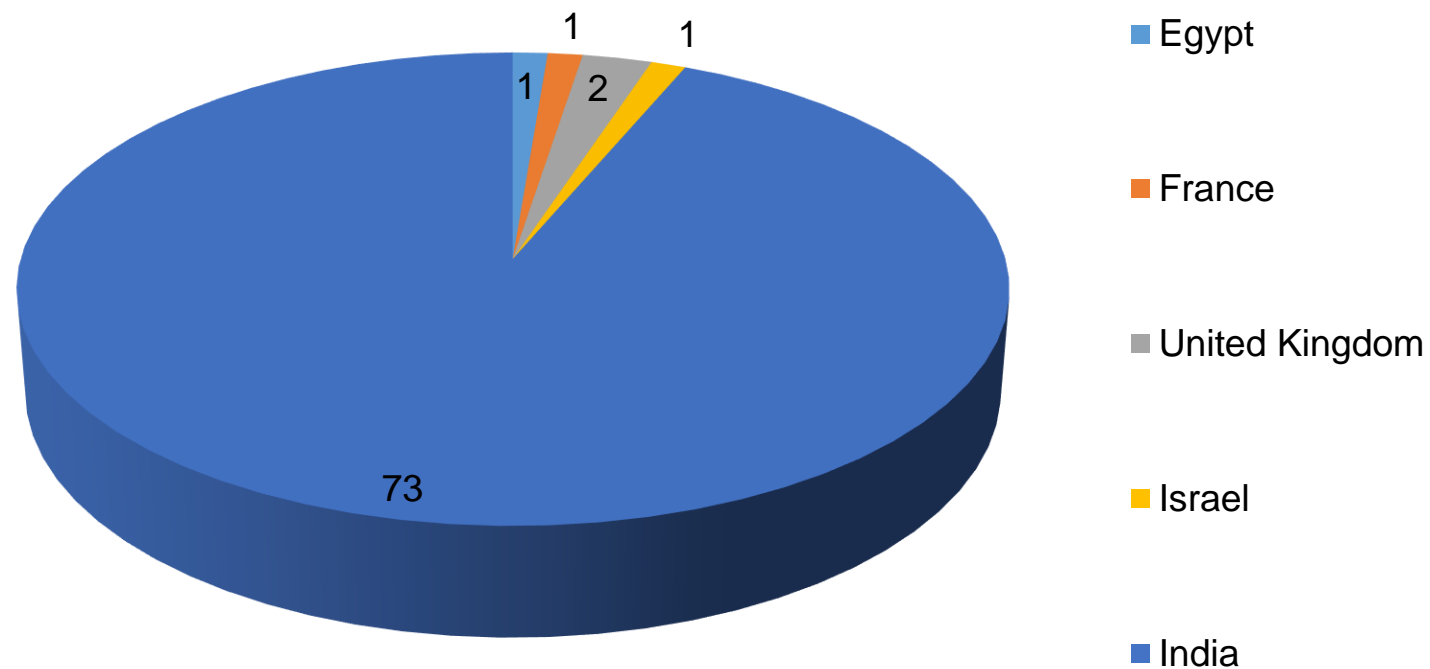




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# TOTAL NO. OF ENC CELLS IN UB-6 - AREA 'J'

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Organization





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# STATUS OF OVERLAPS

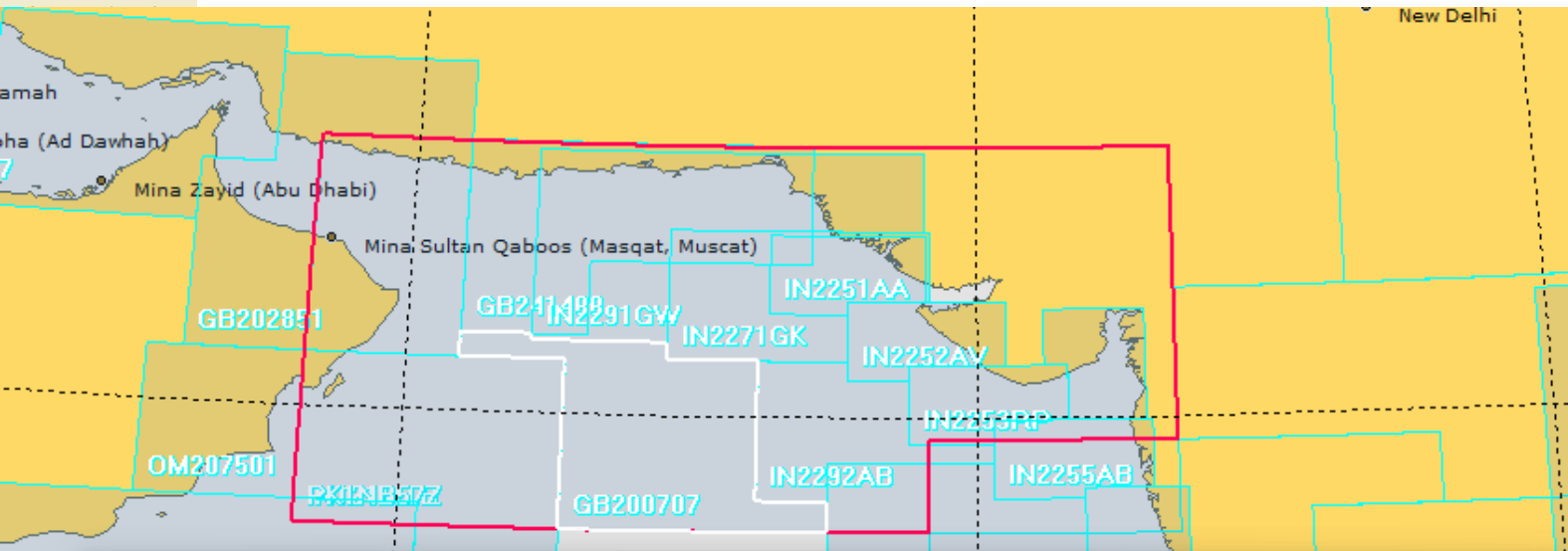
International  
Hydrographic  
Organization

STATUS	RHC	ENC1	ENC2	UB	ENC1 CS	ENC2 CS	REMARKS
LIVE	RSAHC/NIOHC	GB200707	IN121MTB	1 / 2	700000	700000	Bilaterally with UKHO
LIVE	NIOHC	GB200709	IN2263AA	2	1500000	180000	
LIVE	RSAHC/NIOHC	GB241400	IN121MTB	1 / 2	700000	700000	
LIVE	NIOHC	GB300813	IN2263AA	2 / 3	180000	180000	
LIVE	NIOHC	GB301583	IN2358PY	2 / 3	180000	180000	



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# IC-ENC OVERLAP REPORT



ENC1	ENC2
GB200707	IN121MTB

Products Found In "ENC Units" (Admiralty Vector Chart Service)

Product Type	Product	Title	Highlight	Basket	Inventory	Usage(s)	Scale
ENC Units	GB200707	Arabian Sea	<a href="#">Normal Display</a>	<a href="#">Add</a>	<a href="#">Add</a>	General	1:700.000
ENC Units	IN121MTB	Title Not Specified	<a href="#">Highlight</a>	<a href="#">Remove</a>	<a href="#">Add</a>	Overview	1:700.000
ENC Units	PK1NB57Z	Not Specified	<a href="#">Highlight</a>	<a href="#">Add</a>	<a href="#">Add</a>	Overview	1:1.500.000
			<a href="#">All On</a>	<a href="#">Add All</a>	<a href="#">Add All</a>		
			<a href="#">All Off</a>	<a href="#">Remove All</a>	<a href="#">Remove All</a>		

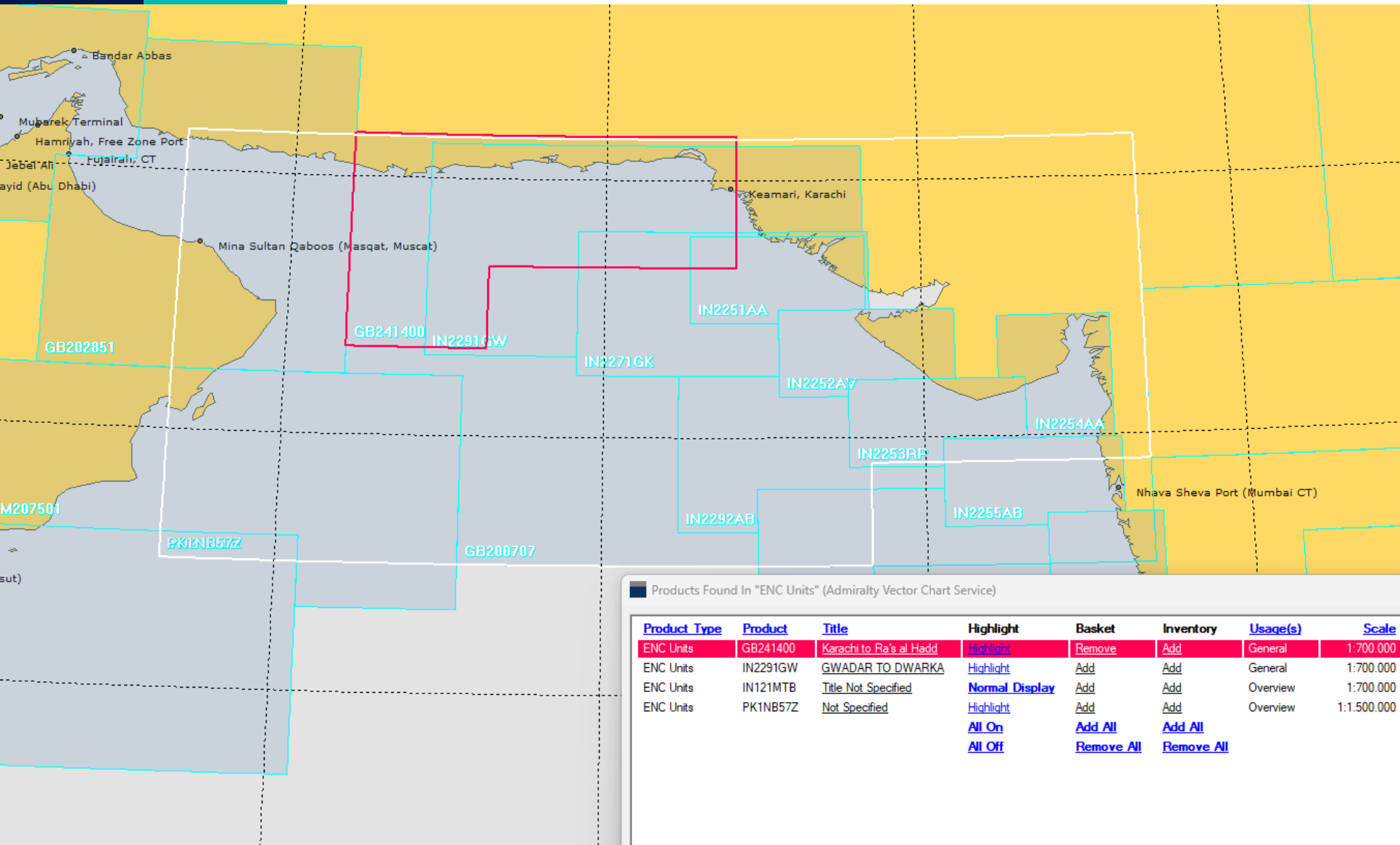
Close

Colours: Basket Inventory Both



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# IC-ENC OVERLAP REPORT

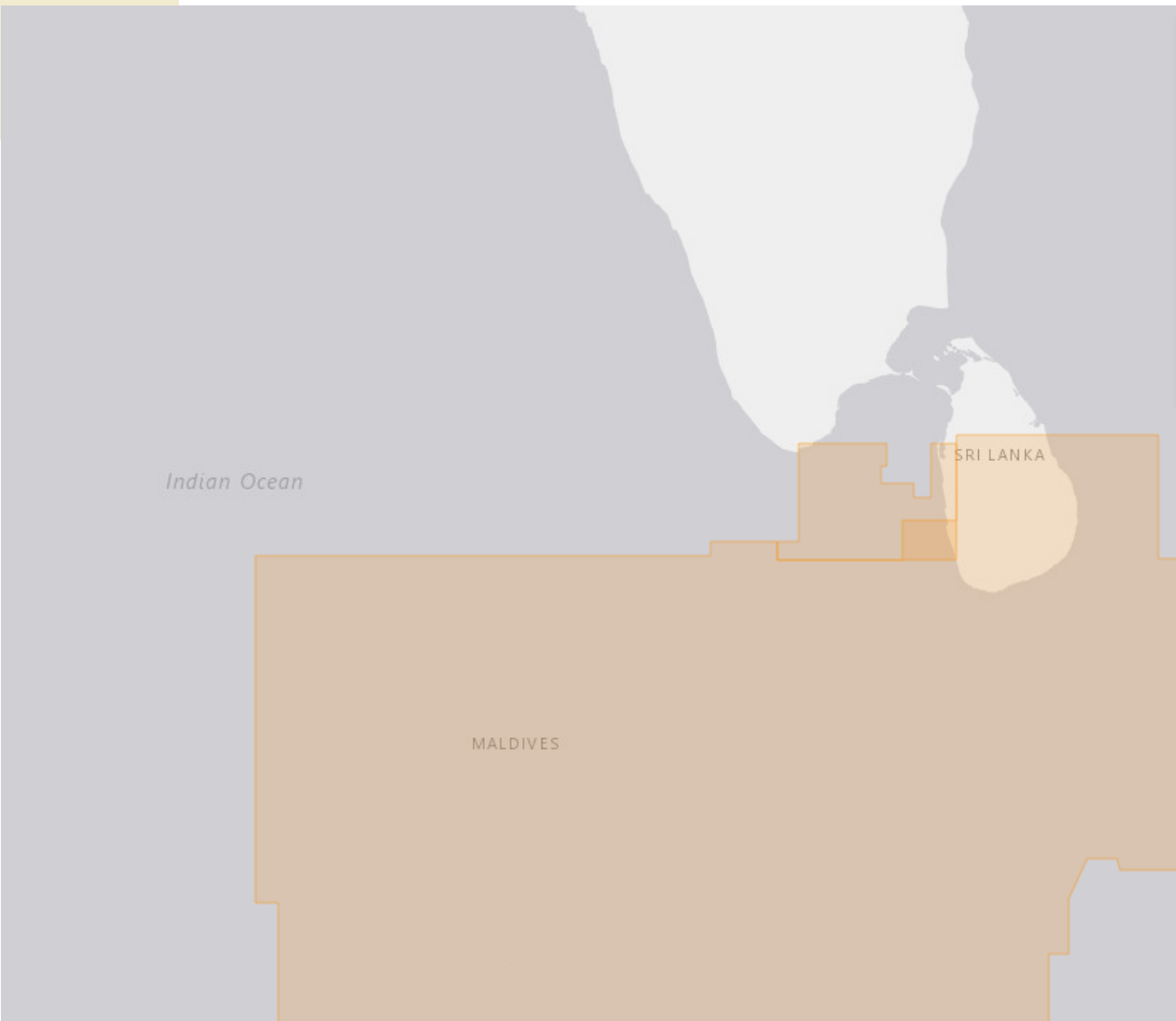


ENC1	ENC2
GB241400	IN121MTB



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# IC-ENC OVERLAP Report



Cell	EDTN	UPDN	REISSUE	Title	Overlap Area (km <sup>2</sup> )	Coordinate
✓ GB200709	13	2	0	Indian Ocean - Maldives to Sri Lanka		
IN2261AA	2	3	0	Eight Degree Channel to Kanniyakumari	-0.000001	6.71667 N,76.20000 E <input type="button" value="Q"/>
IN2262AA	1	5	0	Cape Comorin to Pamban	-0.000001	8.20533 N,80.00000 E <input type="button" value="Q"/>
✓ IN2263AA	1	3	0	Kanyakumari to Colombo	-0.000001	6.71667 N,77.24000 E <input type="button" value="Q"/>
IN2295AA	1	1	0	unknown	-0.000001	6.50000 N,69.16667 E <input type="button" value="Q"/>
IN233BBL	3	3	0	BAY OF BENGAL- SOUTHERN PORTION	-0.000001	8.33333 N,80.00000 E <input type="button" value="Q"/>

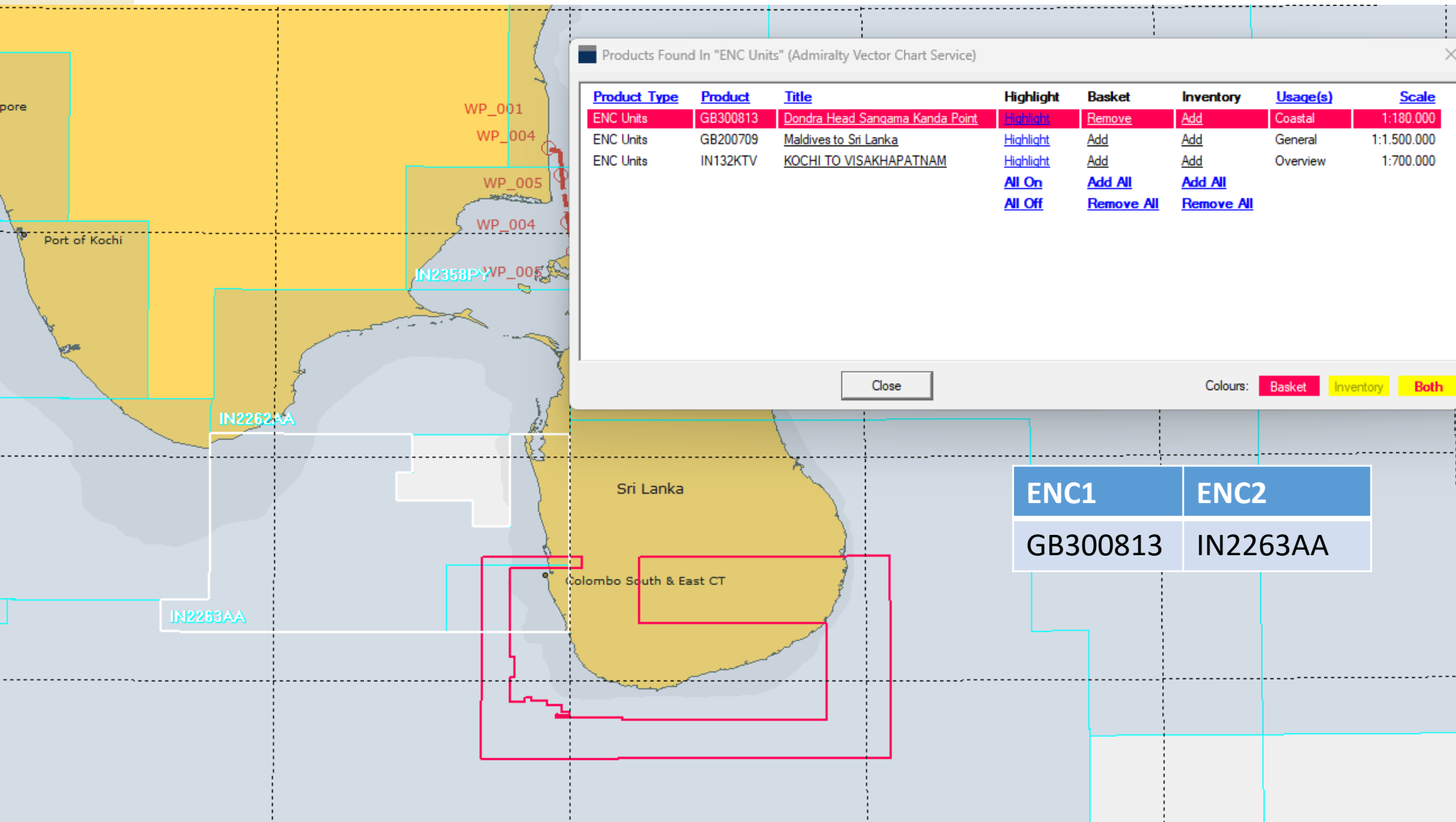
ENC1	ENC2
GB200709	IN2263AA

Indian Ocean



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# IC-ENC OVERLAP REPORT



Products Found In "ENC Units" (Admiralty Vector Chart Service)

Product Type	Product	Title	Highlight	Basket	Inventory	Usage(s)	Scale
ENC Units	GB300813	Dondra Head Sangama Kanda Point	<a href="#">Highlight</a>	<a href="#">Remove</a>	<a href="#">Add</a>	Coastal	1:180.000
ENC Units	GB200709	Maldives to Sri Lanka	<a href="#">Highlight</a>	<a href="#">Add</a>	<a href="#">Add</a>	General	1:1.500.000
ENC Units	IN132KTV	KOCHI TO VISAKHAPATNAM	<a href="#">Highlight</a>	<a href="#">Add</a>	<a href="#">Add</a>	Overview	1:700.000
			<a href="#">All On</a>	<a href="#">Add All</a>	<a href="#">Add All</a>		
			<a href="#">All Off</a>	<a href="#">Remove All</a>	<a href="#">Remove All</a>		

Close

Colours: Basket Inventory Both

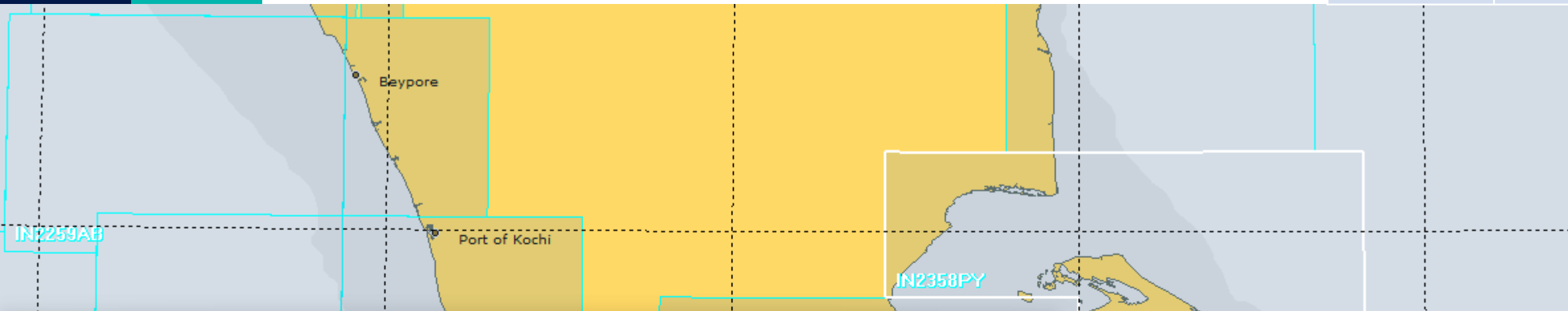
ENC1	ENC2
GB300813	IN2263AA



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# IC-ENC OVERLAP Report

ENC1	ENC2
GB301583	IN2358PY



Products Found In "ENC Units" (Admiralty Vector Chart Service)

Product Type	Product	Title	Highlight	Basket	Inventory	Usage(s)	Scale
ENC Units	GB301583	Akkeraipattu to Pulmoddai Roads	<a href="#">Highlight</a>	<a href="#">Remove</a>	<a href="#">Add</a>	Coastal	1:180.000
ENC Units	IN233BBL	Bay of Bengal Southern Portion	<a href="#">Highlight</a>	<a href="#">Add</a>	<a href="#">Add</a>	General	1:700.000
ENC Units	IN132KTV	KOCHI TO VISAKHAPATNAM	<a href="#">Highlight</a>	<a href="#">Add</a>	<a href="#">Add</a>	Overview	1:700.000
			<a href="#">All On</a>	<a href="#">Add All</a>	<a href="#">Add All</a>		
			<a href="#">All Off</a>	<a href="#">Remove All</a>	<a href="#">Remove All</a>		

Close

Colours: Basket Inventory Both





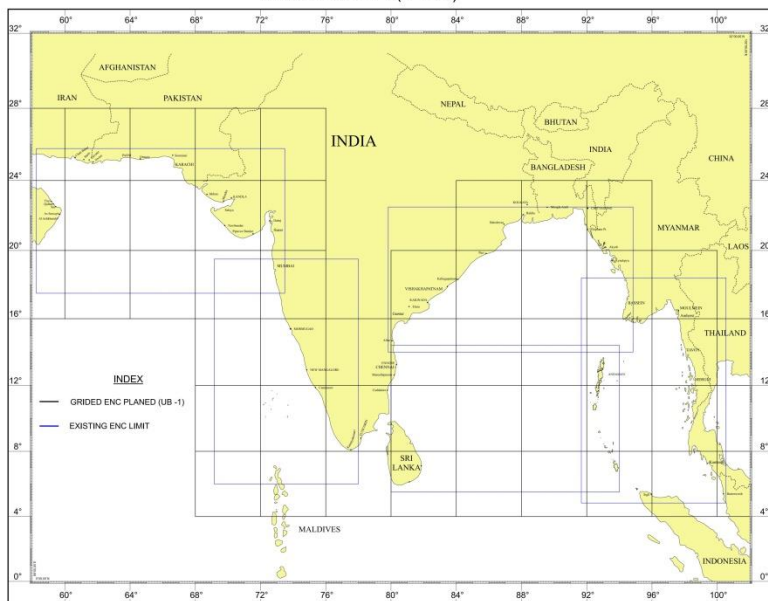
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# NIOHC ENC GRIDDED SCHEME

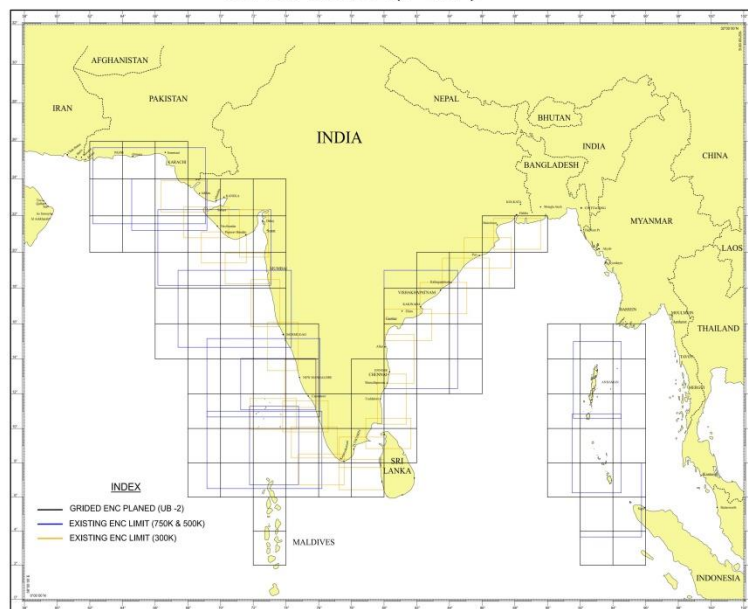
International Hydrographic Organization

- ❑ NHO, India has also taking Initiatives in development of ENC Gridded Scheme for Indian Ocean Coverage.
- ❑ For Initial purpose India Has chosen ENC grid for Usage Band Viz, 1,2&3 Only.
- ❑ Broad Scheme is shown as below:-

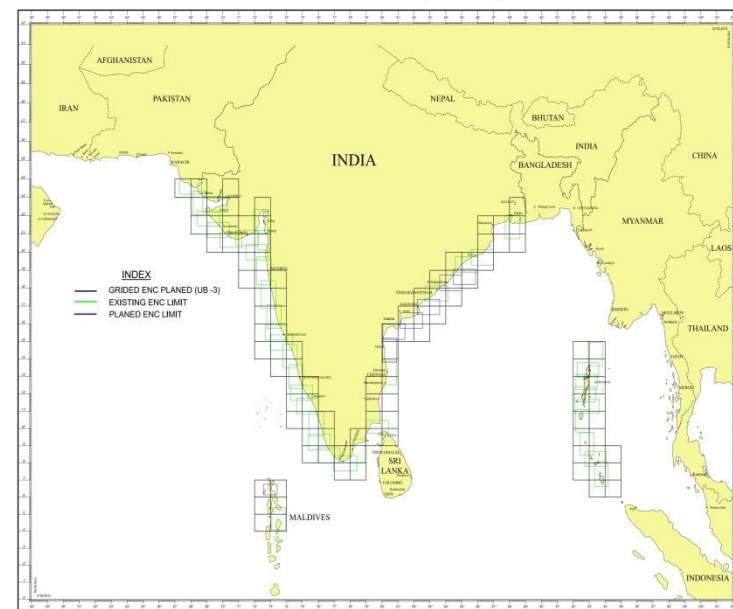
USAGE BAND - 1 (4° X 4°)



USAGE BAND-2 (2° X 2°)



USAGE BAND-3 (1° X 1°)





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# **S-100 IMPLEMENTATION** **(ROADMAP @ NHO)**

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- NHO, India is also taking on role of NIOHC Coordinator for S-100 PS. A core team has been setup to monitor the progress on S100 product specifications and to execute the action plan for migration to S100 PS.
- As S100 Coordinator INHD has put into motion a plan for our region. The draft once finalised shall be shared with all the member states for comments and further deliberations.
- Further India as NIOHC coordinator has also sought information from all the member states regarding any assistance required by them for implementation of S100 roadmap and gridded ENC.
- For the development decade is divided in **three phases** and is primarily focused on -
  - Capacity Building
  - Technical Standardization
  - Coordinated Implementation



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## **CONCLUSION**

International  
Hydrographic  
Organization

INHD stands committed to the NIOHC region Area 'J', and would continue its efforts and support both in terms of resources and technical support towards ensuring capacity building and growth of Hydrography in the region.