



## **NATIONAL REPORT**

### **20<sup>th</sup> Meeting of the Mediterranean and Black Seas Hydrographic Commission (MBSHC-20)**

Herceg Novi/Montenegro  
4 – 6 July 2017

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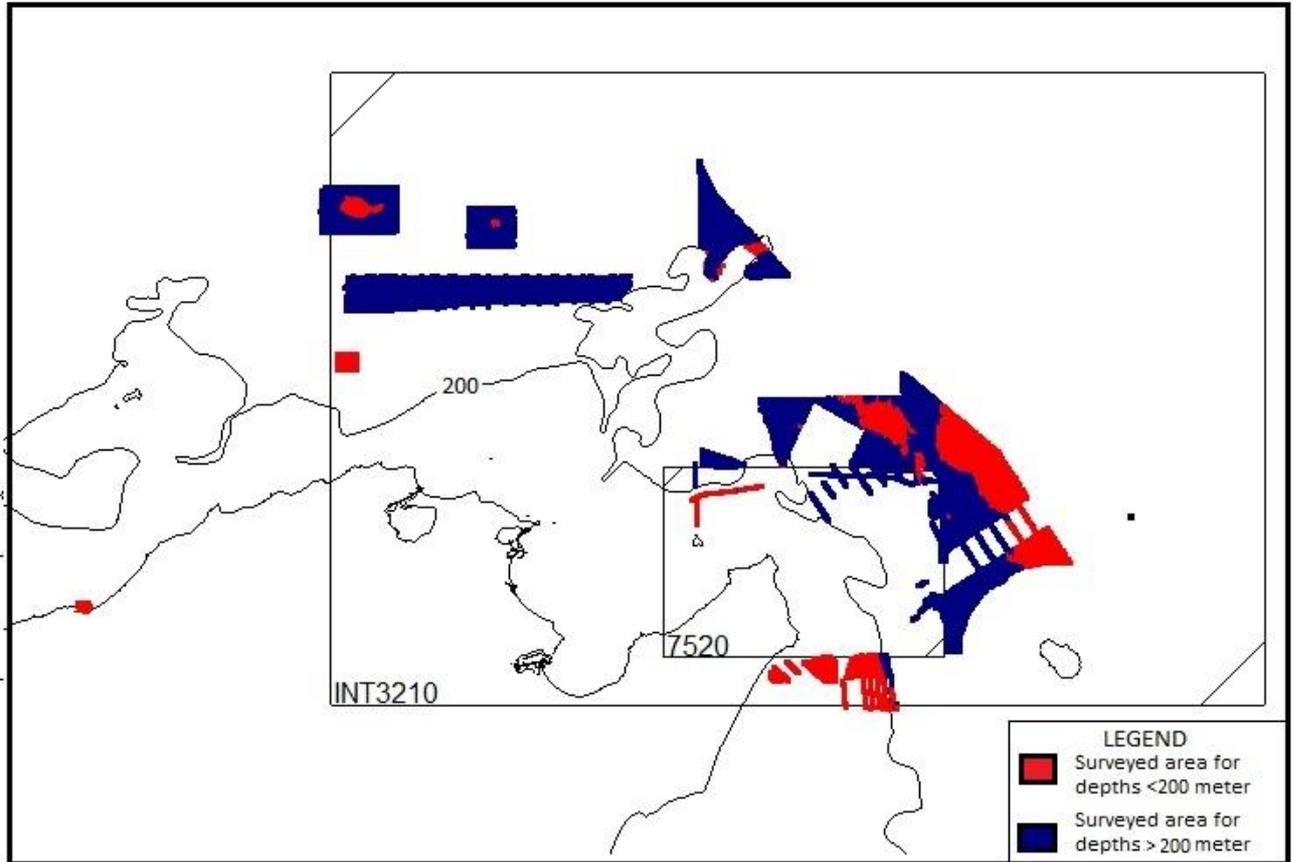
<b>1. Hydrographic Office / Service:</b>	<p>The Tunisian Navy Hydrographic and Oceanographic Center (TNHOC) is the national authority with regards to nautical chart production.</p> <p>The TNHOC collect, process and distribute information related to safety of navigation. In the same time, the center analyzes, archives, and implements databases in this field.</p> <p>The TNHOC also provides hydrographic and oceanographic services to third parties.</p>																																																																						
<b>2. Surveys:</b>																																																																							
Coverage of new surveys (See annex 1)	<p>During the period between 2016 and 2017, the TNHOC has conducted many hydrographic surveys mainly concentrated in the north and north east coast of Tunisia. These hydrographic surveys were used to finish the production of INT3210 and TN7520 charts.</p>																																																																						
New technologies and /or equipment:	<p>Between 2016 and 2017, the TNHOC had purchased the following hydrographic equipments:</p> <ul style="list-style-type: none"> <li>▪ Hemisphere GNSS R330;</li> <li>▪ Leica GS25 GNSS;</li> <li>▪ Two single beam echo sounder Echotrac CV100;</li> <li>▪ Single beam echo sounder Echotrac CVM;</li> <li>▪ In 2017, a new Hydrographic R.H.I.B. (rigid-hulled inflatable boat) for survey in very shallow water was also purchased;</li> <li>▪ The TNHOC has recently purchased a new multibeam system NORBIT WBMS for shallow water and coastal surveys.</li> </ul>																																																																						
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Problems encountered:	N.T.R																																																																						
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ENCs: (See ENCs coverage in annex 2)	The status of Tunisian ENCs production is:																																																																						
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ENC Distribution method:	<p>The Tunisian ENCs are distributed through IC-ENC, C-Map and UKHO.</p> <p>The TNHOC has signed an agreement with IC-ENC in April 2016 for the distribution of Tunisian ENCs. All Tunisian ENCs are checked and validated before distribution. Besides, there is a close</p>																																																																						

	collaboration with this RENC, especially regarding the optimization of production and validation processes.														
RNCs:	N.A.														
<b>INT Charts: (See annex 3)</b>															
<ul style="list-style-type: none"> <li>Published:</li> </ul>	<p>INT 3208 chart a coproduction with the Algerian hydrographic service and INT3210 chart a coproduction with the Italian hydrographic institute are now completed and the publishing procedure will start very soon.</p> <p>These two charts will be presented during this MBSHC.</p>														
<ul style="list-style-type: none"> <li>In progress:</li> </ul>	<ul style="list-style-type: none"> <li>❖ INT 3208 with the Algerian Hydrographic Service. Côtes d'Algérie et de Tunisie « de Ras El Hadid à Cap Zebib » Scale : 1/250 000</li> <li>❖ INT 3210 with the Italian Hydrographic Institute. Banzart to K'libia, Trapani and Pantellaria. Scale : 1/250 000</li> </ul>														
<ul style="list-style-type: none"> <li>Planned:</li> </ul>	<p>After publishing the INT 3210, the TNHOC and the Italian Hydrographic institute will start as soon as possible the co-production of the INT chart 3212 ‘ ‘ Da Ras El-Mir à Cap Africa – Pantelleria e Isole Pelagie’’, scale 1/250 000.</p>														
National paper charts: <b>(Published)</b>	<p>The TNHOC has produced 13 nautical paper charts covering the northern part of Tunisia. The online catalogue of national paper charts is available through the following link: <a href="http://www.cnct.defense.tn/index.php/fr/produits-et-services/produits/item/183-cartes">http://www.cnct.defense.tn/index.php/fr/produits-et-services/produits/item/183-cartes</a></p> <p>The status of nautical paper charts produced by the TNHOC is mentioned in the table here below:</p>														
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Other charts, e.g. for pleasure craft:	N.A.														
Problems encountered:	N.T.R														

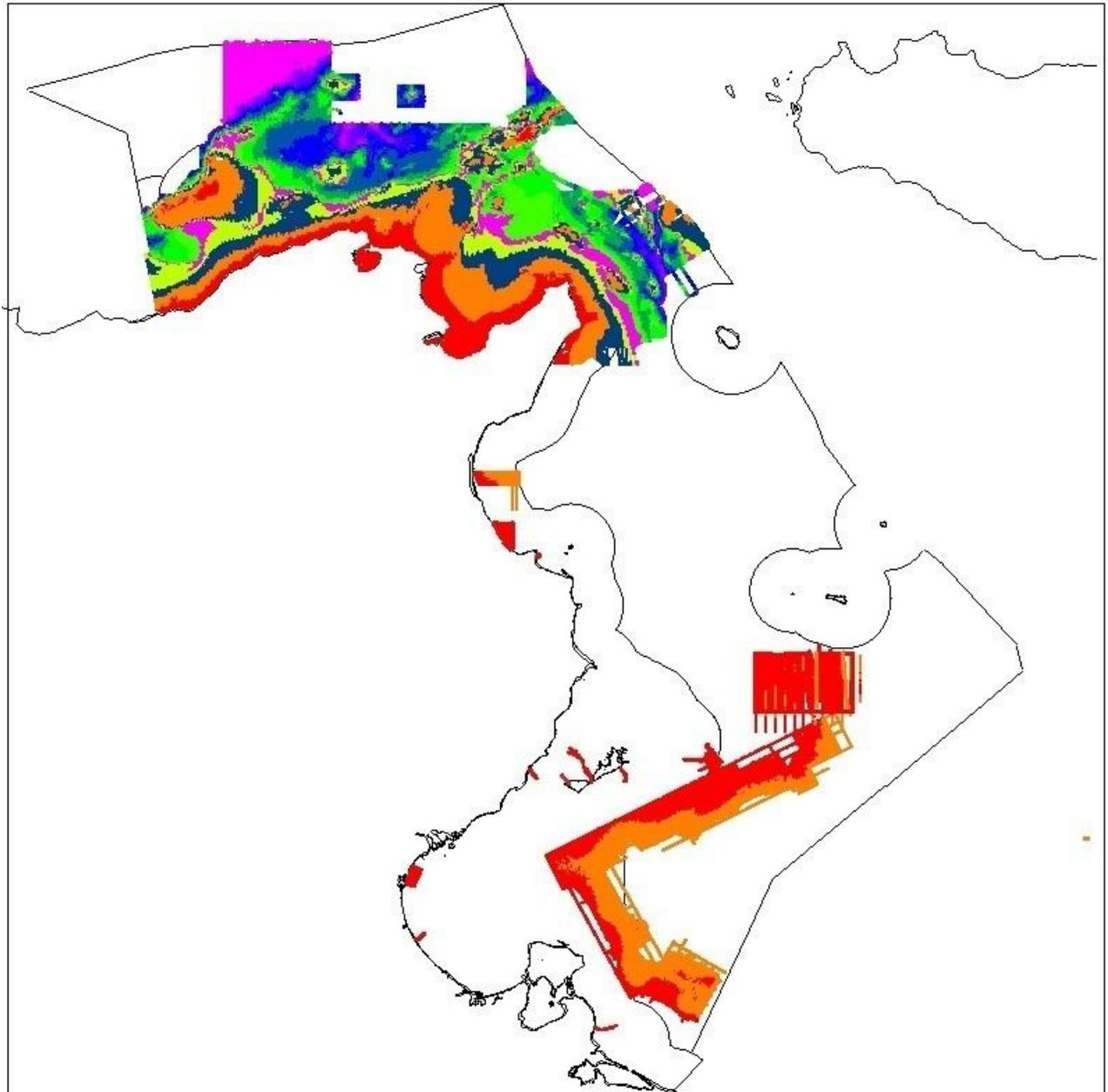
<b>4. New publications &amp; updates:</b>	
New Publications:	Tide table 2017 – Tunisian coast list of lights 2015.
Updated publications:	Nautical charts and nautical publications are updated via notices to mariners. A paper version of notices to mariners is sent periodically to Algeria, Italy, Spain and Turkey. A digital version of notices to mariners is sent periodically (every 2 weeks) via email to NGA (USA), SHOM (France), UKHO (UK).
Means of delivery, e.g. paper, digital:	All publications are available on paper.
Problems encountered:	N.T.R
<b>5. MSI</b>	
Existing infrastructure for transmission	Kelibia Navtex station.
New infrastructure in accordance with GMDSS:	N.A
Problems encountered:	Kelibia Navtex station is not operational for the moment due to technical problems. The TNHOC is working hard to repair the Kelibia Navtex station. The TNHOC broadcast its related MSI via Malta station.
<b>6. C-55</b>	
Latest update	<b>See annex 4</b>
<b>7. Capacity Building</b>	
Offer of and/or demand for Capacity Building:	Need for training course in: – Hydrography – Marine cartography – On job training in multibeam data collection and processing.
Training received:	<ul style="list-style-type: none"> <li>▪ CAT B 7<sup>th</sup> course in Hydrographic Data Processing and Marine Cartography held at the United Kingdom Hydrographic Office. (From the 7<sup>th</sup> September to 18<sup>th</sup> December 2015).</li> <li>▪ Multibeam echo sounder and side scan sonar systems workshop - Istanbul (Turkey), from 24 to 28 October 2016.</li> </ul>
Training offered:	N.A.
Status of bilateral development projects with hydrographic component.	
<ul style="list-style-type: none"> <li>• In progress:</li> </ul>	<p><b><u>ALGERIA:</u></b> The TNHOC and the Algerian hydrographic service have concluded the co-production of INT3208 chart. The last meeting of the joint working group was held in Alger in March 2017 to finalize the production of INT3210 chart that will be released soon. A bilateral agreement with the Algerian Hydrographic Service regarding the publication and the distribution of the chart INT3208 is in progress.</p> <p><b><u>ITALY:</u></b> The TNHOC and the Italian hydrographic institute have concluded the co-production of INT3210. The last meeting of hydrographic expert was held in Genoa in May 2017, the scope of this meeting is to finalize the production of INT3210 chart that</p>

	<p>will be released soon.</p> <p>A bilateral agreement with the Italian hydrographic institute regarding the cooperation in the field of hydrography and oceanography is in progress.</p>	
• Planned:	N.A.	
• Under study:	N.A.	
Definition of bids to IHO CBC:	N.A.	
<b>8. Oceanographic activities</b>		
General:	The TNHOC ensure the annual production and distribution of tide table.	
GEBCO/IBC's activities:	N.A.	
Tide gauge network:	<p>The TNHOC implemented since 1987 a tide gauge network (six tide gauges) to monitor the tide along the Tunisian coast.</p> <p>The tide network is there to:</p> <ul style="list-style-type: none"> <li>• Tide data collection,</li> <li>• Monitoring variations of the mean sea level,</li> <li>• The determination of harmonic constants necessary for the prediction of tides and the development of tide tables.</li> </ul> <p>The TNHOC intends in the near future (2017/2018) to renew the existing tide gauge network with a modern radar or pressure tide gauge with real time data transmission.</p>	
New equipment:	<ul style="list-style-type: none"> <li>▪ Water level Pressure Gauge System: In-situ Level troll 700, 100 PSI</li> <li>▪ ADCP current Meter System: RDI Workhorse 300-600 m</li> </ul>	
Problems encountered:	N.T.R.	
<b>9. Other activities</b>	<p>Participation in IHO Working Groups:</p> <p>Meteorological data collection:</p> <p>Geospatial studies:</p> <p>Disaster prevention:</p> <p>Environmental protection:</p> <p>Astronomical observations:</p> <p>Magnetic/Gravity surveys:</p>	N.A
<b>10. Conclusions</b>	<p>The TNHOC confirms that cooperation in the Mediterranean area still remains the priority for all the countries involved.</p> <p>To ensure the safety of navigation in the Tunisian waters, the TNHOC intends to purchase new hydrographic assets and new hydrographic equipments in order to continue performing hydrographic and oceanographic survey and producing nautical charts with higher standards in all areas not yet surveyed.</p>	

**ANNEX 1**  
**COVERAGE OF NEW SURVEYS**  
**(2016 - June 2017)**

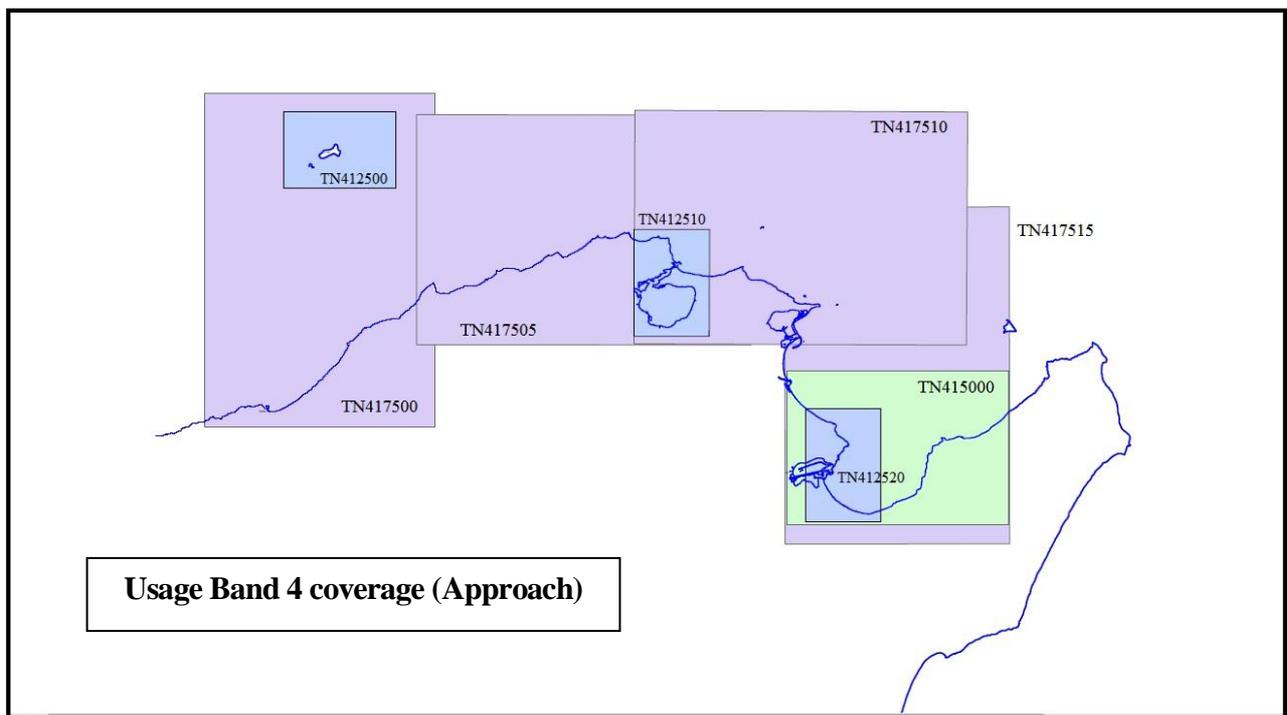
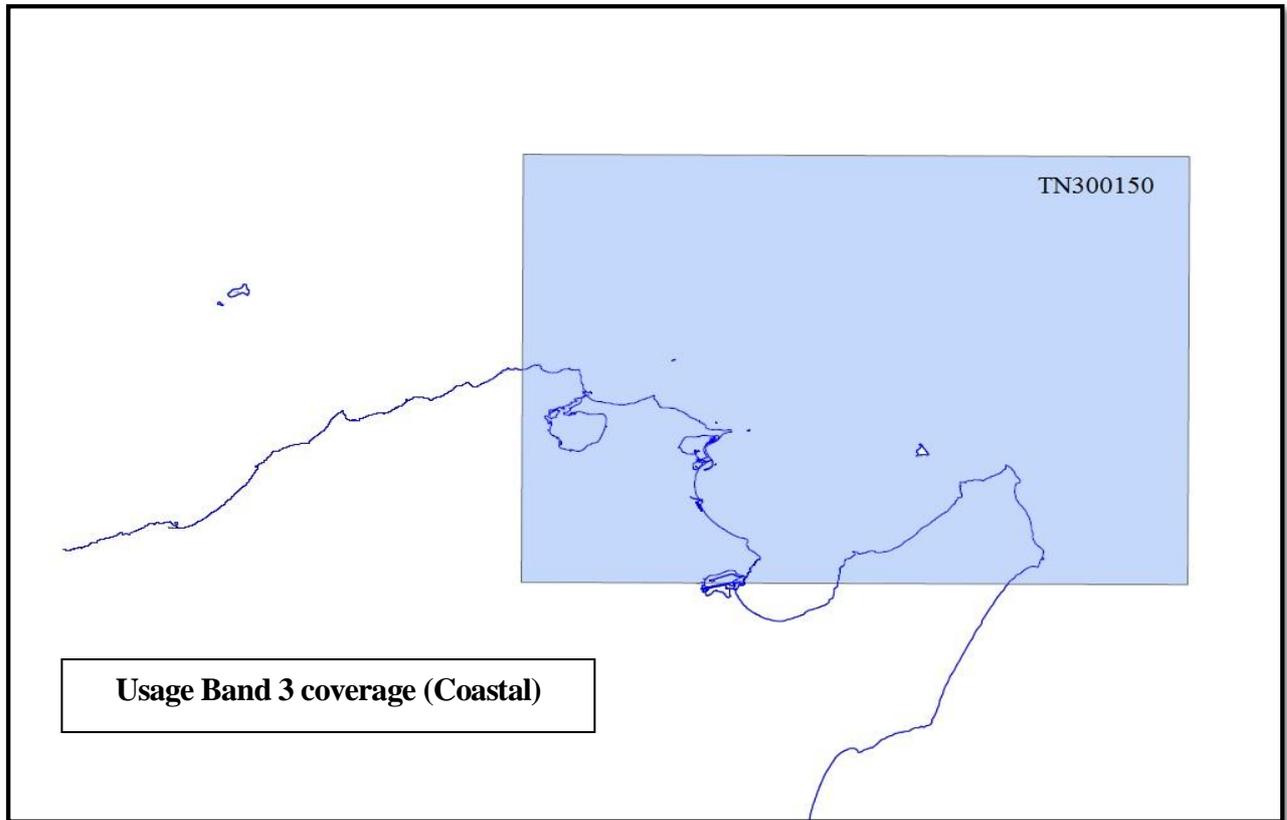


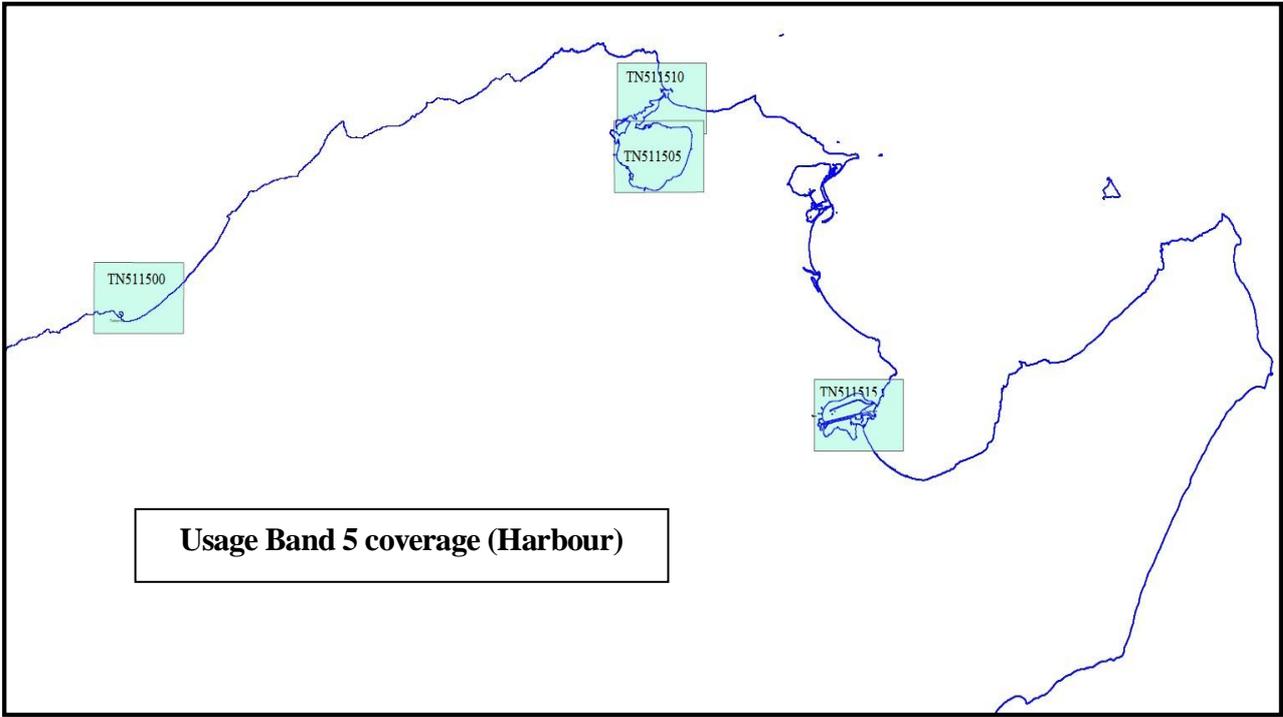
## STATUS OF HYDROGRAPHIC SURVEYING



**ANNEX 2**

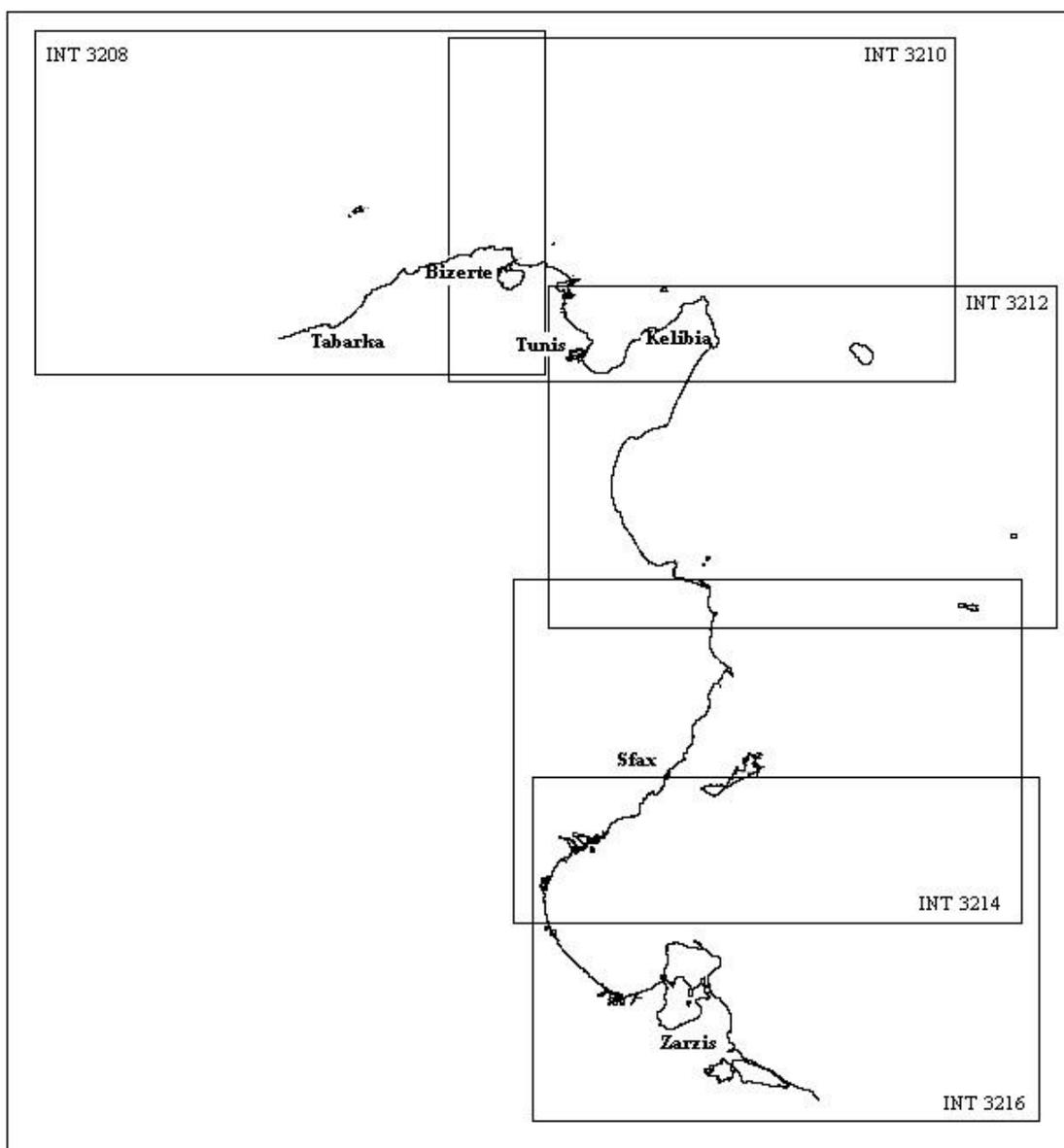
**TUNISIAN ENC'S COVERAGE**



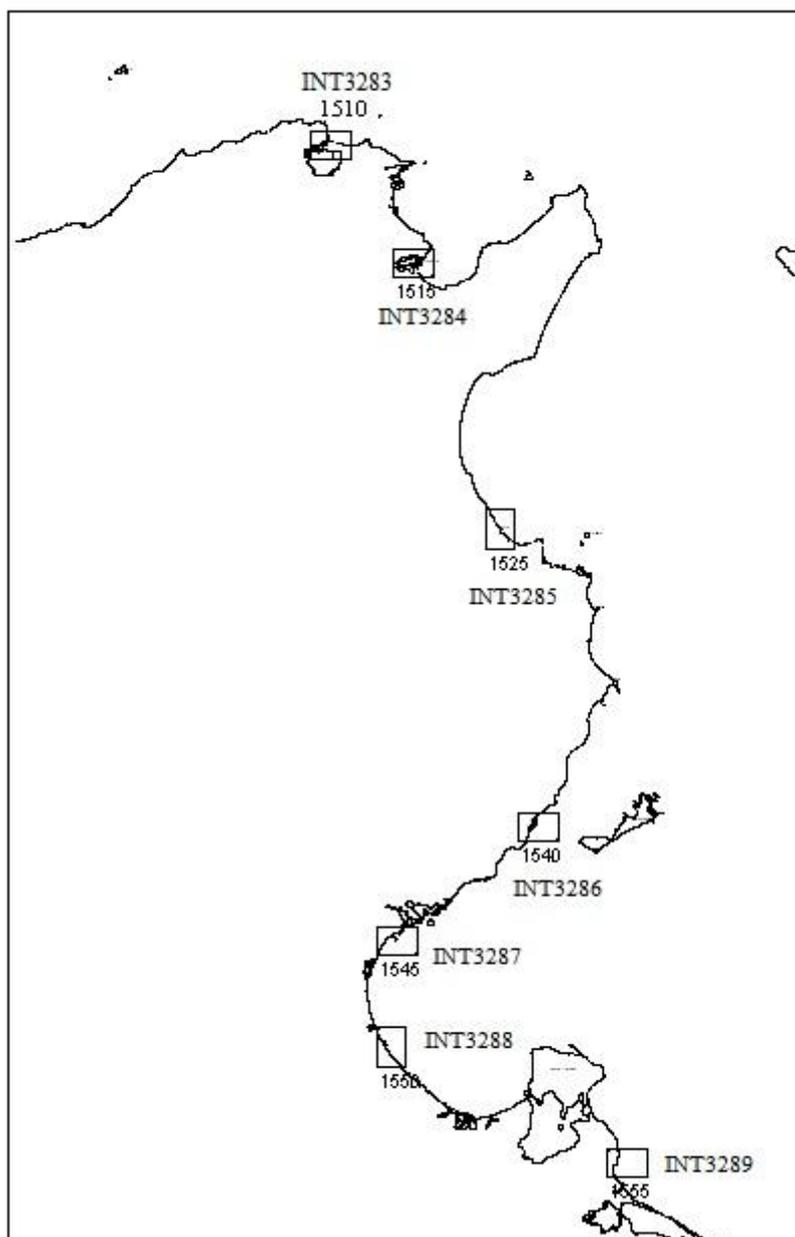


### ANNEX 3

#### SCHEME OF INTERNATIONAL CHARTS



<b>INT No.</b>	<b>National No.</b>	<b>Title</b>	<b>Scale</b>	<b>Status</b>
3208	250	De Ras El Hadid à Cap Zebib	1/250000	Achieved and will be published very soon
3210	255	De Banzart à K'libia – Trapani et Pantelleria	1/250000	Achieved and will be published very soon
3212	260	Da Ras El-Mir à Cap Africa – Pantelleria e Isole Pelagie	1/250000	In preparation



INT No.	National No.	Title	Scale	Status
3283	1510	Port de Benzart et goulet du Lac	1/15000	Achieved
3284	1515	Ports de Halk El Oued, Rades et Tounes	1/15000	Achieved
3285	1525	Port de Susah (Sousse)	1/15000	In preparation
3286	1540	Port de Safaquis (Sfax)	1/15000	In preparation
3287	1545	Port de Skhirra	1/15000	In preparation
3288	1550	Port de Gannouche (Gabès)	1/15000	In preparation
3289	1555	Port de Zarzis	1/15000	In preparation

## ANNEX 4

### C55-Tunisia-20170619.pdf

C-55 Summary for:				Comments on Charts:
Country:	Tunisia			According to the IHO (MBSHC), it was agreed that TNHOC will produce international charts as follows : INT Chart 3208 in cooperation with the Algerian HO (achieved). INT Chart 3210 in cooperation with the Italian HO (achieved). INT Chart 3212 in cooperation with the Italian HO (surveyed at 10%). INT Chart 3214 to be produced by the TNHOC (surveyed at 25%). INT Chart 3216 in cooperation with the Libyan HO (surveyed at 20%).
Country Iso Code:	TUN			
Country SubCode:	TUN-F			
INT Region:	F			
Country/Depend:	C			
Last updated:				
Provided by:	Tunisia			
Chart coverage	Passage (%)	Coastal (%)	Port (%)	<b>Comments on Surveys:</b> The survey of the northern maritime area is achieved. The east maritime area is being surveyed since 2010.
INT	0	40	30	
RNC	0	0	0	
ENC	0	25	30	
Status of Paper Charts				
Paper charts with depths in meters (%)			100	
Paper charts referenced to a satellite datum (%)			100	
Status of surveys	Adequate (%)	Resurvey (%)	No survey (%)	
0-200m	55	45	0	
> 200m	46	54	0	

MSI	Y/N	Comments on MSI:
Local warning	Y	
Coastal warning	Y	
Nav warning	Y	Through NAVAREA III
Port warning	Y	
GMDSS	Y/N	Comments on GMDSS:
Master Plan	N	The GMDSS implementation responsibility lies on the merchant marine administration. All Tunisian merchant marine vessels comply with the IMO recommendations regarding the GMDSS implementation.
Area A1	N	
Area A2	N	
Area A3	N	
NAVTEX	Y	Kelibia Navtex station is not operational for the moment due to technical problems. The TNHOC broadcast its related MSI via Malta station.
SafetyNet	N	The GMDSS Implementation responsibility lies on the merchant marine administration. All Tunisian merchant marine vessels comply with the IMO recommendations regarding the GMDSS implementation.