

**6<sup>th</sup> ROPME Sea Area Hydrographic Commission (RSAHC) Meeting**  
**Abu Dhabi United Arab Emirates (UAE)**  
**09<sup>th</sup> - 11<sup>th</sup> Feb. 2015**

**Status of ENC Coverage in the ROPME Sea Area Hydrographic Commission (RSAHC)**

**Introduction:**

The IHO reconfirmed to the IMO, at its 54<sup>th</sup> meeting of NAV in 2008, that there would be “sufficient ENC availability” by year 2010. At the same meeting, NAV accepted a proposal from the International Chamber of Shipping, and supported by the IHO, for the following definition of “sufficient ENC coverage” in relation to considering mandatory carriage requirements for ECDIS:

‘Sufficient ENC availability is defined as being equivalent to the available paper chart coverage of either a Hydrographic Office providing global coverage or the Hydrographic Office of the Coastal State’.

This implies that, by year 2010 where there is a paper chart published to support international voyages, there should be a corresponding ENC. Since that time, due to some technical and infrastructural difficulties that some coastal states are facing some problems in order to meet the set date requirements, therefore IMO had expanded that date to 2014.

So far in our region, Kingdom of Bahrain and Pakistan were become member of IC-ENC, and I.R. of Iran, by signing a bilateral contract with PRIMAR RENC on February of 2013, had become the third State in the RSA region to be a member of one of the RENCs. Recently the Kingdom of Saudi Arabia is going through the bilateral agreement with PRIMAR or IC-ENC, which means in a near future we will have more ENC cells produce and distributed in the RSA region.

**Kingdom of Bahrain:**

Kingdome of Bahrain has been produced 4 ENC cells as follows:

No	ENC Title	National Cell No.	Producer
1	Mina’ Salman and Approaches	BH51501B	Kingdom of Bahrain
2	Khalifa Bin Salman Port	BH51503B	
3	Hayr Shutayah to Khawr Fasht	BH45006B	
4	Outer Approaches to Bahrain	BH46501B	

### Islamic Republic of Iran:

The Islamic Republic of Iran had signed a bilateral agreement with PRIMAR and became a PRIMAR RENC Member since 2013. In this regard I.R. of Iran have produced 22 cells of ENC and have sent them to PRIMAR for the qualification control. These ENC Cells are being finalized in a near future. Other than those ENC Cells the Iranian National Cartographic Center (NCC) has been produced some 120 cells are available from I. R. of Iran to be send to PRIMAR , in which according to their agreement these charts will be send in 10 cells each time for final checks and accreditation process and distribution to PRIMAR before worldwide distribution..

### ISLAMIC REPUBLIC OF IRAN- NATIONAL CARTOGRAPHY CENTER ENC Product List

Cell ID	Title	Edition	Edition Date	Scale
IR 403006	BANDAR-E SHAHID RAJAI TO BANDAR-E SHAHID BAHONAR	1	08.2012	25 000
IR 403007	JAZIRE-YE QESHM TO JAZIRE-YE LARAK	1	06.2012	25 000
IR 403012	APPROACHES TO BANDAR-E SHAHID BAHONAR AND BANDAR-E SHAHID RAJAI	1	01.2008	50 000
IR 403013	TANGE-YE HORMOZ TO TANGE-YE KHURAN	1	12.1999	100 000
IR 403018	DAYYER	1	03.2000	25 000
IR 403019	KANGAN	1	09.2000	25 000
IR 403021	APPROACHES TO BANDAR-E GENAVEH	1	09.2000	25 000
IR 403025	KHALIJ-E NAY BAND	1	06.2001	25 000
IR 403027	BANDAR- E TAHERY	1	09.2001	25 000
IR 403030	JAZIRE-YE HANGAM	1	08.2006	25 000
IR 403031	JAZIRE-YE KHARG	1	11.2002	25 000
IR 403032	BANDAR-E EMAM HASSAN	1	09.2002	25 000
IR 403035	DAMAGHE- YE TARKAN (JAZIRE- YE QESHM)	1	03.2003	25 000
IR 403036	DAMAGHE- YE KAKAN (JAZIRE- YE QESHM)	1	01.2003	25 000
IR 403040	KHALIJ-E NAY BAND AND APPROACHES TO BANDAR-E PARS	1	01.2003	30 000
IR 403041	JAZIRE-YE LARAK TO RAMCHAH	1	09.2008	25 000
IR 303042	BANDAR-E DEYLAM TO BANDAR-E EMAM HASSAN	1	08.2004	100 000
IR 303043	JAZIRE-YE KHARG TO BANDAR-E GENAVEH	1	07.2003	100 000
IR 303044	BANDAR- E BUSHEHR TO BANDAR-E AMERI	1	01.2003	100 000
IR 303045	BANDAR- E AMERI TO KANGAN OIL FIELD	1	05.2003	100 000
IR 303046	BANDAR-E PARS TO DAYYER	1	07.2006	100 000
IR 303047	BANDAR-E TAHERI TO ASALUYEH	1	04.2004	100 000
IR 303048	JAZIRE-YE LAVAN	1	05.2004	100 000
IR 303049	JAZIRE-YE KISH TO BANDAR-E CHARAK	1	02.2005	100 000
IR 503050	BANDAR-E SHAHID RAJAE	1	08.2007	10 000
IR403051	BANDAR-E EMAM KHOMEINI	1	01.2007	25 000
IR 403052	KHOWR-E MUSA MIDDLE PART	1	04.2006	25 000

IR 403053	FARA SAHEL SHIPYARD TO POHL	1	01.2004	25 000
IR 403054	APPROACHES TO BANDAR-E KAVEH	1	03.2003	30 000
IR403056	DAMAGHE-YE MOTAF	1	12.2003	25 000
IR 403058	JAZIRE-YE LAVAN TO NAKHILU	1	07.2004	25 000
IR 403059	APPROACHES TO BANDAR-E JAVADOL_AEMMEH	1	08.2013	25 000
IR 403060	JAZIRE-YE KISH	1	02.2005	25 000
IR 403061	BANDAR-E CHARAK	1	07.2005	25 000
IR 403064	TANGE-YE KHURAN MIDDLE PART	1	12.2004	50 000
IR 403065	JAZIRE-YE QESHM WESTERN PART	1	10.2005	50 000
IR 403066	JAZIRE-YE QESHM SALAKH TO TARKAN	1	12.2008	50 000
IR 403067	SUZA TO JAZIRE-YE HANGAM	1	12.2010	50 000
IR 403068	SUZA TO JAZIRE-YE LARAK	1	10.2009	50 000
IR 403069	BANDAR- E MOALLEM TO BANDAR- E LENGEH	1	02.2007	50 000
IR 403070	BANDAR-E SHAHID RAJAI	1	08.2005	25 000
IR 303072	BAHREGAN OIL FIELD TO BANDAR-E EMAM HASSAN	1	08.2006	100 000
IR 303073	BANDAR-E GENAVEH TO JAZIREH-YE KHARG	1	06.2007	100 000
IR 303074	BANDAR-E BUSHEHR TO BANDAR-E ROSTAMI	1	10.2013	100 000
IR 303075	BANDAR-E ROSTAMI TO KANGAN OIL FIELD	1	03.2008	100 000
IR 303076	KANGAN OIL FIELD TO KANGAN	1	12.2013	100 000
IR 303077	BANDAR-E PARS TO TOMBAK & TEBEN	1	09.2013	100 000
IR 303078	BANDAR-E JAVADOL_AEMMEH TO JAZIREH -YE LAVAN	1	10.2007	100 000
IR 303079	JAZIREH-YE KISH to JAZIREH-YE HENDURABI	1	04.2005	100 000
IR 303080	BANDAR-E LENGEH TO JAZIREH-YE SIRI	1	11.2005	100 000
IR 303081	JAZIREH-YE TONB-E BOZORG TO JAZIREH-YE ABU MUSA	1	10.2005	100 000
IR 303082	KHURAN & JAZIREH-YE QESHM (EAST PART)	1	02.2010	100 000
IR 303086	BOSTANEH	1	08.2009	25 000
IR 303087	MOGHUYEH	1	08.2009	25 000
IR 303088	HASINEH	1	09.2009	25 000
IR 403089	BANDAR-E AFTAB	1	12.2008	25 000
IR 403090	BANDAR-E CHARAK TO JAZIRE-YE KISH	1	12.2009	50 000
IR 403091	BANDAR - E CHIRUYE	1	11.2009	25 000
IR 403092	JAZIRE-YE HENDURABI	1	02.2009	25 000
IR 403095	JAZIRE-YE LARAK	1	02.2011	25 000
IR 403096	KHALIJ-E NAY BAND- WEST	1	07.2009	25 000
IR 403097	KHALIJ-E NAY BAND SOUTH WEST	1	08.2009	25 000
IR 403098	KHALIJ-E NAY BAND SOUTH	1	05.2009	25 000
IR 403099	TEBEN- WEST	1	06.2009	25 000
IR 403100	TEBEN	1	05.2009	25 000
IR403101	BANDAR-E JAVADOLAEMMEH-SOUTH	1	11.2010	25 000

IR 403102	BANDAR_E SHIU	1	02.2010	25 000
IR 403103	MOQAM - WEST	1	01.2010	25 000
IR 403104	BANDAR_E MOQAM	1	01.2010	25 000
IR 403105	JAZIRE-Y LAVAN SOUTH EAST PART	1	11.2010	25 000
IR 403106	JAZIRE-Y LAVAN SOUTH PART	1	09.2010	25 000
IR 403107	JAZIRE-Y LAVAN WEST PART	1	09.2010	25 000
IR 403108	JAZIRE-Y LAVAN-OFFSHORE SOUTH WEST	1	09.2010	25 000
IR 403109	JAZIRE-Y LAVAN-OFFSHORE WEST	1	09.2009	25 000
IR 403110	JAZIRE-Y LAVAN	1	08.2010	50 000
IR 403111	DAMAGHE-YE MOTAF EAST	1	01.2011	25 000
IR 403112	DAYYER- WEST	1	01.2012	25 000
IR 503113	JAZIREH_YE TONB_E BOZORG TO JAZIREH_YE FARUR_E BOZORG NORTH TRAFFIC ZONE-A	1	01.2010	10 000
IR 503114	JAZIREH_YE TONB_E BOZORG TO JAZIREH_YE FARUR_E BOZORG NORTH TRAFFIC ZONE -B	1	01.2011	10 000
IR 503115	JAZIREH_YE TONB_E BOZORG TO JAZIREH_YE FARUR_E BOZORG NORTH TRAFFIC ZONE -C	1	01.2010	10 000
IR 503116	JAZIREH_YE TONB_E BOZORG TO JAZIREH_YE FARUR_E BOZORG NORTH TRAFFIC ZONE -D	1	01.2010	10 000
IR 503117	JAZIREH_YE TONB_E BOZORG TO JAZIREH_YE FARUR_E BOZORG NORTH TRAFFIC ZONE -E	1	02.2012	10 000
IR 503118	JAZIREH_YE TONB_E BOZORG TO JAZIREH_YE FARUR_E BOZORG NORTH TRAFFIC ZONE -F	1	02.2012	10 000
IR 503119	JAZIREH_YE TONB_E BOZORG TO JAZIREH_YE FARUR_E BOZORG NORTH TRAFFIC ZONE -G	1	02.2012	10 000
IR 503120	JAZIREH_YE TONB_E BOZORG TO JAZIREH_YE FARUR_E BOZORG NORTH TRAFFIC ZONE -H	1	02.2012	10 000
IR 503121	JAZIREH_YE TONB_E BOZORG TO JAZIREH_YE FARUR_E BOZORG NORTH TRAFFIC ZONE -I	1	02.2012	10 000
IR 503122	JAZIREH_YE TONB_E BOZORG TO JAZIREH_YE FARUR_E BOZORG NORTH TRAFFIC ZONE -J	1	03.2012	10 000
IR 503123	JAZIREH_YE TONB_E BOZORG TO JAZIREH_YE FARUR_E BOZORG NORTH TRAFFIC ZONE -K	1	03.2012	10 000
IR 503124	JAZIREH_YE TONB_E BOZORG TO JAZIREH_YE FARUR_E BOZORG NORTH TRAFFIC ZONE -L	1	03.2012	10 000
IR 503125	JAZIREH_YE TONB_E BOZORG TO JAZIREH_YE FARUR_E BOZORG NORTH TRAFFIC ZONE -M	1	03.2012	10 000
IR 503126	JAZIREH_YE TONB_E BOZORG TO JAZIREH_YE FARUR_E BOZORG NORTH TRAFFIC ZONE -N	1	04.2012	10 000
IR 503127	JAZIREH_YE FARUR_E BOZORG TO JAZIREH_YE TONB_E BOZORG -A	1	04.2012	10 000

IR 503128	JAZIREH_YE FARUR_E BOZORG TO JAZIREH_YE TONB_E BOZORG -B	1	04.2012	10 000
IR 503129	JAZIREH_YE FARUR_E BOZORG TO JAZIREH_YE TONB_E BOZORG -C	1	04.2012	10 000
IR 503130	JAZIREH_YE FARUR_E BOZORG TO JAZIREH_YE TONB_E BOZORG -D	1	05.2012	10 000
IR 503131	JAZIREH_YE FARUR_E BOZORG TO JAZIREH_YE TONB_E BOZORG -E	1	05.2012	10 000
IR 503132	JAZIREH_YE FARUR_E BOZORG TO JAZIREH_YE TONB_E BOZORG -F	1	05.2012	10 000
IR 503133	JAZIREH_YE FARUR_E BOZORG TO JAZIREH_YE TONB_E BOZORG -G	1	05.2012	10 000
IR 503134	JAZIREH_YE FARUR_E BOZORG TO JAZIREH_YE TONB_E BOZORG -H	1	02.2012	10 000
IR 503135	JAZIREH_YE FARUR_E BOZORG TO JAZIREH_YE TONB_E BOZORG -I	1	06.2012	10 000
IR503136	JAZIREH_YE FARUR_E BOZORG TO JAZIREH_YE TONB_E BOZORG -J	1	06.2012	10 000
IR 503137	JAZIREH_YE FARUR_E BOZORG TO JAZIREH_YE TONB_E BOZORG -K	1	06.2012	10 000
IR 503138	JAZIREH_YE FARUR_E BOZORG TO JAZIREH_YE TONB_E BOZORG -L	1	06.2012	10 000
IR 503139	JAZIREH_YE FARUR_E BOZORG TO JAZIREH_YE TONB_E BOZORG -M	1	09.2011	10 000
IR 303142	JAZIREH_YE QESHM	1	11.2010	150 000
IR 403145	PARS_E JONUB-I	1	09.2010	50 000
IR 403147	APPROACHES TO DAYYER	1	07.2012	25 000
IR 503149	DAYYER	1	03.2012	10 000
IR 303154	BUSHEHR TO JAZIREH-YE FARSI	1	02.2012	250 000
IR 303155	JAZIREH-YE KHARG TO BANDAR-E EMAM KHOMEINI	1	01.2012	250 000
IR 405001	KHALIJ-E CHABAHAR EAST PART	1	03.2006	25 000
IR 405002	KHALIJ-E CHABAHAR WEST PART	1	03.2006	25 000
IR 405003	JASK	1	07.2009	25 000
IR 404016	APPROACHES TO BANDAR-E ANZALI	1	08.2001	25 000
IR 404017	APPROACHES TO BANDAR-E NOWSHAHR	1	06.2002	25 000
IR 404025	BANDAR-E AMIR ABAD	1	11.2004	25 000
IR 404056	KELA CHAY	1	02.2012	25 000

### Sultanate of Oman:

The processes of converting the existing paper charts to ENCs and quality control (Verification and Validation) are ongoing as planned, expected to complete in 1st quarter of 2015.

Oman after the technical visit to UKHO and IC-ENC last year decided to validate and distribute the Oman's official ENC through UKHO, waiting for administrative issues to be finalized, officially agreed and announced through a bilateral memorandum which as a result will further improve the quality and the distribution of Oman-ENC.

**Pakistan:**

ENC division was established in 2005 and since then considerable headway has been made in ENC production. ENCs of all major ports i.e Karachi Harbour, Port Qasim and Gwadar Deep Water Port are available to mariners. Coastal charts that can facilitate mariners and fall within the major shipping routes have been converted to ENCs. Additional ENCs are also being produced. Pakistan being member of IC-ENC is utilizing its services for data validation and distribution of ENCs. Necessary quality checks of ENCs are conducted prior forwarding to IC-ENC for validation through different software which improves the quality of products.

It may be highlighted that PNHD is neither producing nor has plans to produce RNCs.

**Qatar:**

Hydrographic Section does not produce any form of nautical charts. The United Kingdom Hydrographic Office (UKHO) is providing nautical charting for the waters of Qatar. Information is available through the UKHO and Regional ENC Coordination Centres (RENCs). There is high percentage covered by charts of major shipping routes, approaches and harbours in the waters of Qatar.

**Kingdom of Saudi Arabia:**

ENC distribution method is under discussions with PRIMAR & IC-ENC.

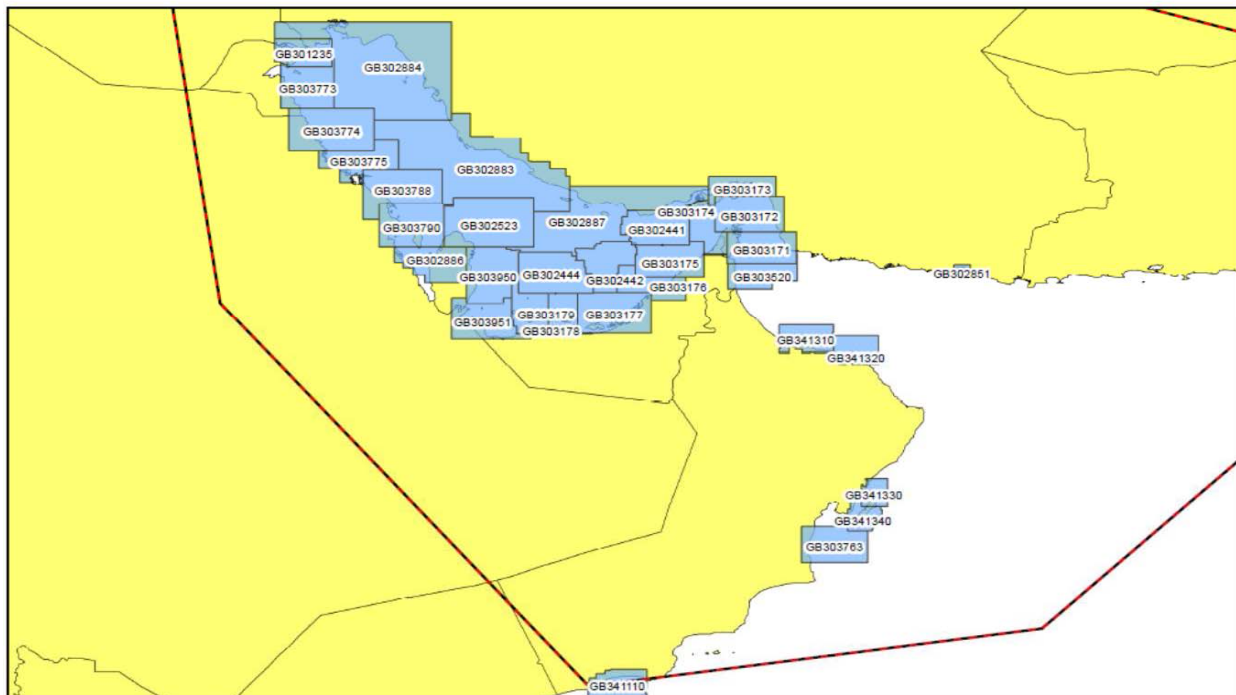
**United Kingdom (UK) :**

Within the RSAHC region, the UKHO has released a total of 131 ENC cells:

The breakdown of current GB coverage is shown in Table 1 below, limits of the ENC's are shown within figures 1-3.

RSAHC Region Released Cells	
ENC Usage Band	Number of GB ENCs
General (2)	6
Coastal (3)	33
Approach (4)	52
Harbour (5)	39
Berthing (6)	1
Total number of released ENCs	131

ROPME Sea Area Hydrographic Commission - GB Coastal Usage Band Coverage



### ENC Distribution

The UKHO, along with other European hydrographic offices, was a founder member of the IC-ENC RENC. IC-ENC (International Centre for ENCs) concentrates its efforts on the validation and consistency of ENC data and leaves the marketing of ENCs to the shipping industry to its value-added resellers and chart agents. Additional details can be found on the IC-ENC website ([www.ic-enc.org](http://www.ic-enc.org)).

**Conclusions:**

So far Kingdom of Bahrain, Pakistan and I.R. of Iran had become a member of one of the RENCs in order to publish their standard ENC Charts, and Kingdom of Saudi Arabia is taking under consideration the bilateral agreement with one of the RENCs Namely PRIMAR and /or IC-ENC)

In spite of some correspondence with all the RSA member states via e-mails we were not able to get any response concerning the ENC updates from the member states, except Kingdom of Bahrain and Islamic Republic of Iran. Taking in to consideration the importance of this issue all RSA Member States are kindly requested to provide sufficient information in this regard twice a year to the ENC Coordinator to enable us to update the chairman of the commission as well as the IHO with ENC coverage in RSA States. Therefore, it is strongly recommended that members seek assistance from other producer nations, under the terms of bi-lateral agreement.

Finally we would like to discuss this matter during this meeting in order to put in the report of the meeting to encourage all members of RSA to provide their information with regard to ENC production to the ENC coordinator in the timely manner.

Thank you for your Attention

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