



UNITED KINGDOM  
NATIONAL REPORT  
TO THE  
8<sup>TH</sup> SOUTHERN AFRICA AND ISLANDS  
HYDROGRAPHIC COMMISSION MEETING  
Walvis Bay, Namibia  
6 – 7 September 2011

**NOTE:** This report supplements the UK Generic National Report, posted on the UKHO website ([www.ukho.gov.uk](http://www.ukho.gov.uk)), and describes UK's activities of direct relevance to the SAIHC region.

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## **1. UNITED KINGDOM HYDROGRAPHIC OFFICE (UKHO)**

### **UK Delivery of Hydrographic Services**

1.1 The UK delivery of hydrographic services is described in the UK Generic National Report. However, it is worth highlighting the benefits which derive from the close liaison which exists between UK's hydrographic office (UKHO) and UK's maritime administration (MCA) in providing a co-ordinated approach to hydrographic and maritime safety representation both nationally and internationally.

### **UKHO Governance and Targets**

1.2 Nothing additional to the UK Generic National Report to report to SAIHC.

### **UKHO Organization**

1.3 Details of UKHO's organisation are provided in the UK Generic National Report (section 1) together with general contact details. Specific contact details relevant to the SAIHC region are included at the end of this report.

### **Production Systems**

1.4 Nothing additional to the UK Generic National Report to report to SAIHC.

### **Cooperation and Partnerships**

1.5 UKHO is committed to the bilateral arrangements which it has developed in cooperation with other international government hydrographic authorities, covering a range of topics, including the use of copyright data, and the promotion of other forms of cooperation between the participants, helping to enhance international maritime safety and protection of the environment.

## **2. SURVEYS**

2.1 Details of the management of civil hydrographic surveys in UK Home Waters are provided in the UK Generic National Report, and on the UKHO website. UK's National Hydrographic Committee (known as the UK Civil Hydrography Annual Seminar (CHAS)) meets on an annual basis and provides the necessary breadth of interests to ensure that all requirements are taken into account when prioritizing the work of the Civil Hydrography Programme (CHP). CHAS was expanded in 2007 to include a much wider range of organisations which conduct hydrographic survey, and has been successful in promoting cooperation between these organisations.

2.2 Any requests for survey assistance from other nations within this RHC region will be assessed within the MOD, with advice from UKHO.

## **3. CHARTS**

3.1 UK's Generic National Report provides information on UK's portfolio of chart products and services. The following paragraphs provide information specifically relevant to the SAIHC region.

### **Paper Charts**

3.2 The following charts have been published since the last SAIHC meeting:

GB Chart Number	INT Chart	Title	Published
NC 309	2570	Lobito to Ponta Grossa	28 May 2009
NC 310	2580	Ponta Grossa to Kunene River	25 June 2009
NE 4157	7531	Approaches to Port Elizabeth	21 January 2010
NE 643	7562	Durban Harbour	04 February 2010
NC 307	2550	Cabeca da Cobra to Cabo Ledo	25 March 2010
NC 4160	-	Ngqura Harbour	29 April 2010
NC 308	2560	Cabo Ledo to Lobito	24 June 2010
NE 4173	7572	Approaches to Richards Bay	23 September 2010
NE 306	2814	Pointe Tchitembo to Cabeca da Cobra	07 October 2010
NC 311	2089	Gamba to Luanda	14 October 2010
NC 312	2050	Luanda to Baía dos Tigres	14 October 2010
NE 1846	2682	Table Bay	25 November 2010
NE 643	7562	Durban Harbour	03 February 2011
NE 4170	7561	Approaches to Durban	03 February 2011
NE 2756	-	Ile de Mayotte - Northern Part - Passe des Iles Choazil to Dzaoudzi	14 April 2011
NE 742	7741	Mahe, Praslin and Adjacent Islands	09 June 2011
NE 2926	7660	Porto de Mocambique to Pemba	14 July 2011
NE 2933	7650	Ilha Epidendron to Porto de Mocambique	14 July 2011
NE 2931	7610	Baia de Inhambane to Cabo de Sao Sebastiao	04 August 2011
NE 2939	7590	Boa Paz to Baia de Inhambane	04 August 2011

2 additional charts have been converted to WGS84 datum by New Edition and 12 Isogonal update New Editions.

### 3.3 Charts scheduled for publication in the next six months include:

GB Chart Number	INT Chart	Title	Published
659	-	Port of Soyo and Approaches (Soyo LNG Terminal)	New Chart
666	7702	Port Mombasa including Port Kilindini and Port Reitz	
1495	7736	Pointe des Châteaux to Pointe de la Rivière du Mât	Re-adopt
3877	7055	Mozambique Channel - Northern Part	Re-adopt
4021	21	South Atlantic Ocean - Eastern Part	Isogonals only
4204	204	Walvis Bay to Maputo	Re-adopt
4208	-	Ilha da Trindade to Tristan da Cunha Group	Isogonals only

### 3.4 Charts scheduled for publication in the next six to twelve months include:

No detailed plans available but will include charts where surveys received from the second stage of the Western India Ocean Marine Highway Project (WIOMEH).

### 3.5 Western Indian Ocean GEF – Marine Highway

In November 2010 SHOM delivered the multi beam survey to UKHO, it covered a 20 mile wide corridor for a length of 1,200 miles totaled 337 Mega Bytes of data (see Figure 1 for extent of the survey).

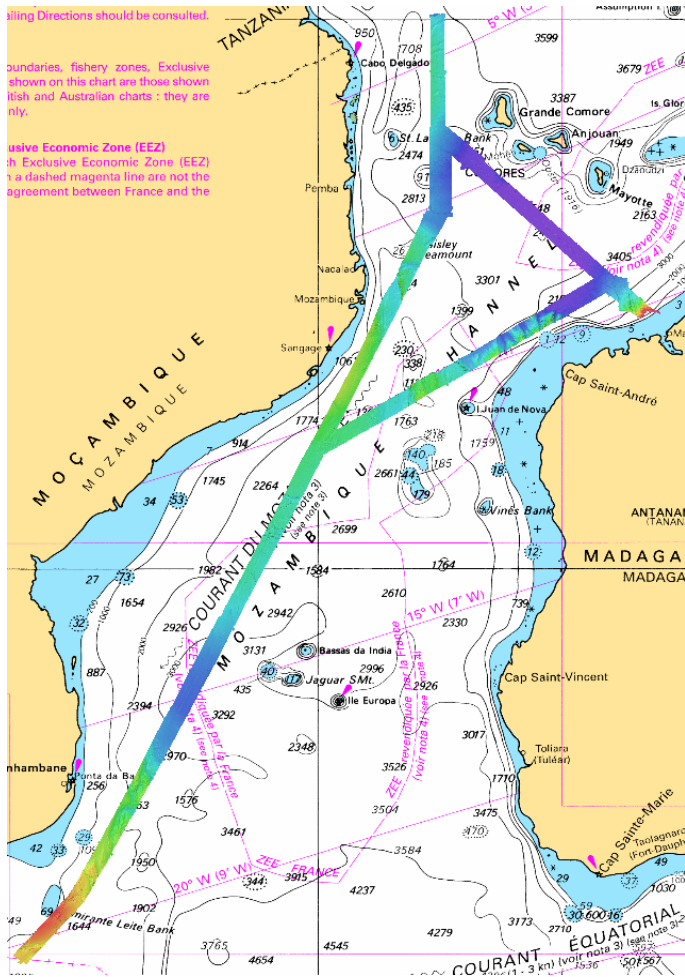


Figure 1 WIOMH survey limits

Processing was carried out using CARIS HIPS software to create a dataset suitable for the compilation of Band 3 ENC cells; this reduced the dataset considerably and allowed the automatic generation of depth contours at required intervals. The data was then introduced into ENC cells GB302926, GB302931, GB302933 and GB302939 using DKart software.

A number of symbols were considered for depicting the limits of the survey but as no formal agreement is in place regarding the status of the route with the IMO it was decided that the increased density of the soundings, the limits on the Source Data diagram and M\_QUAL\_CATZOC A1 would indicate the high quality of the survey. Contours were hand digitised to provide a smooth result.

The updated ENCs were released in April 2011 ahead of updates to the corresponding paper charts. A Preliminary Notice to Mariners, NM1422(P)/11, was published to cover the interim period and the smaller scale charts.

The paper charts were updated using the same reduced dataset and published in July and August 2011.

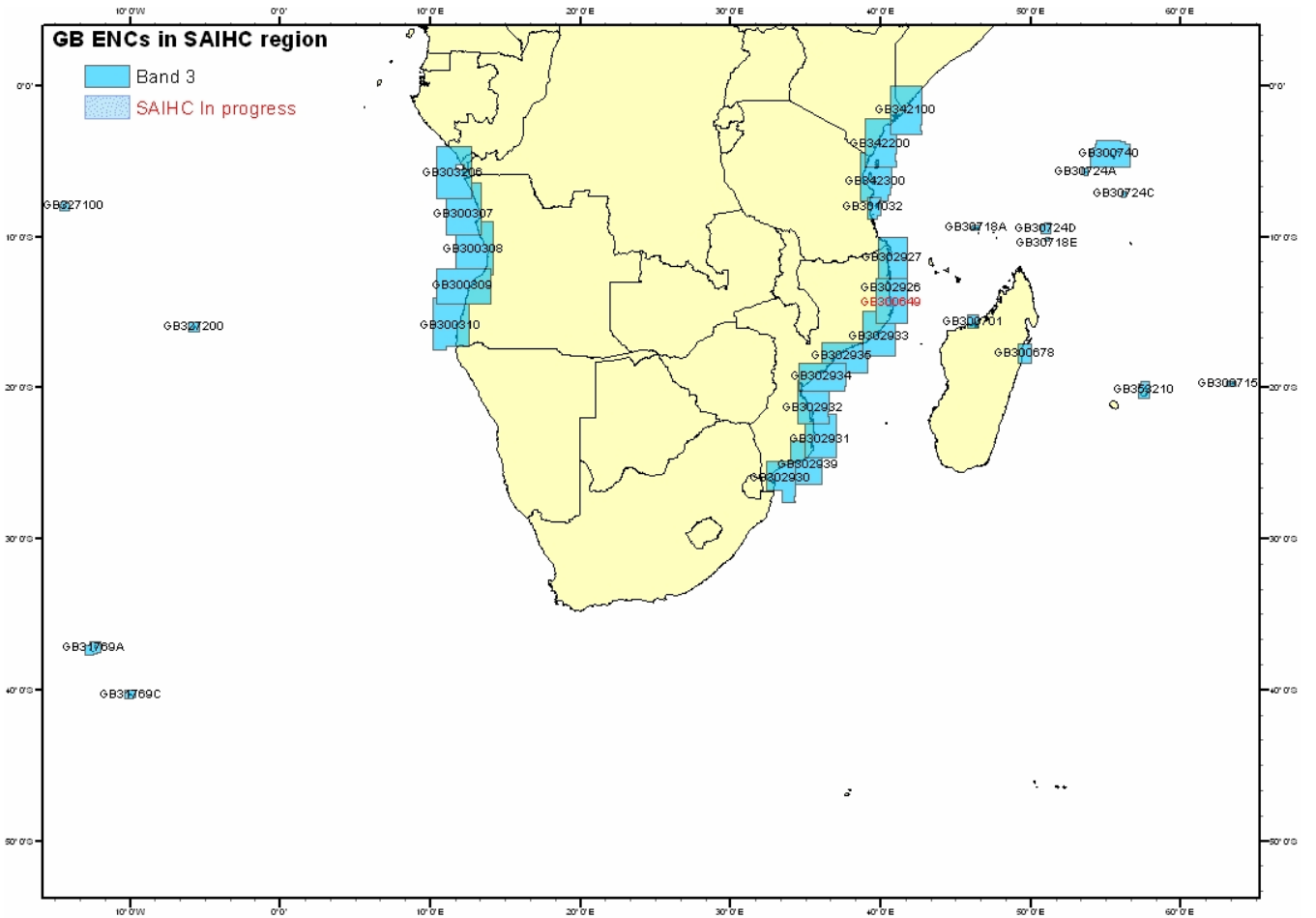
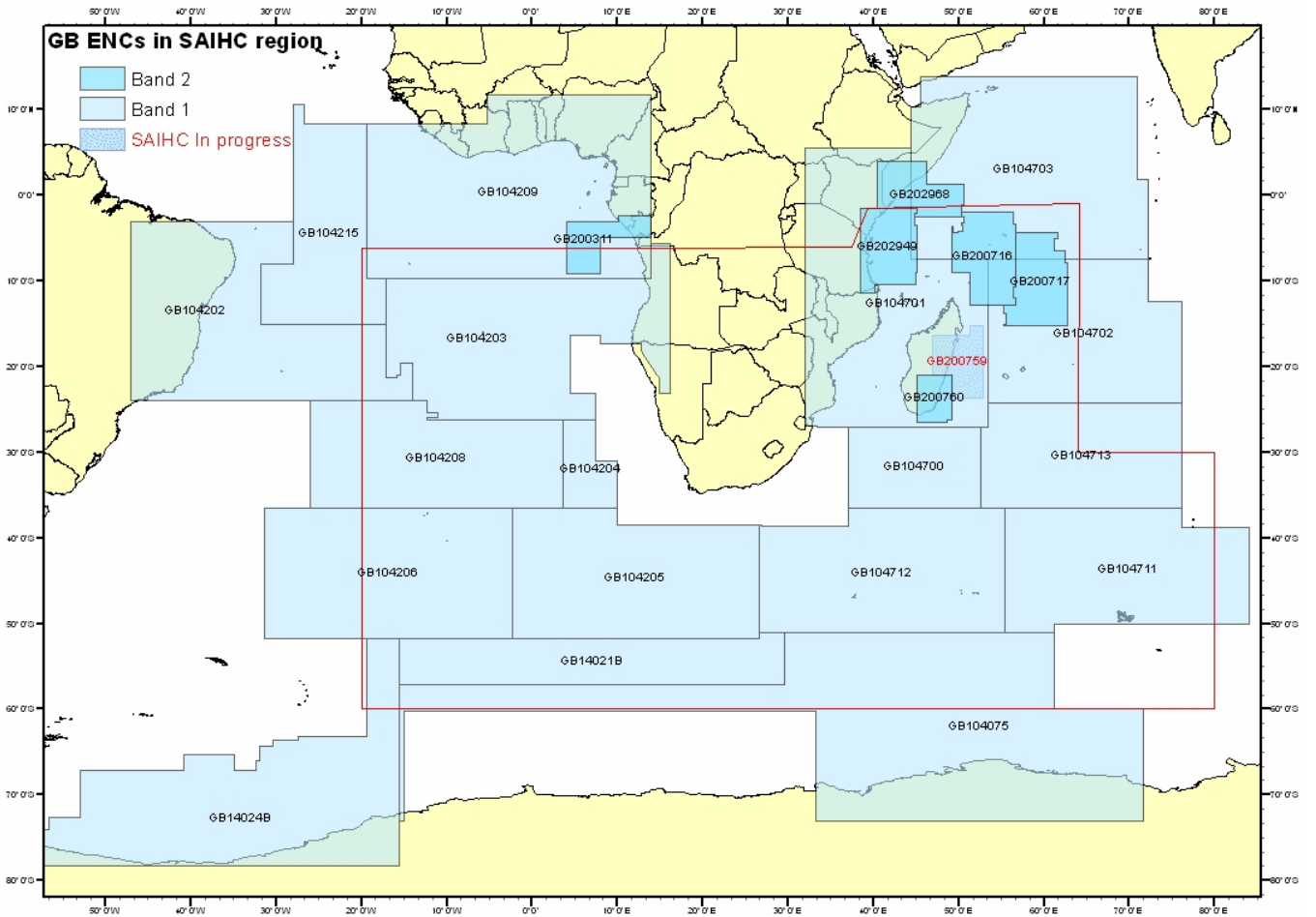
The dataset will be made available to SHOM and IHPT for their Band 2 ENC cells.

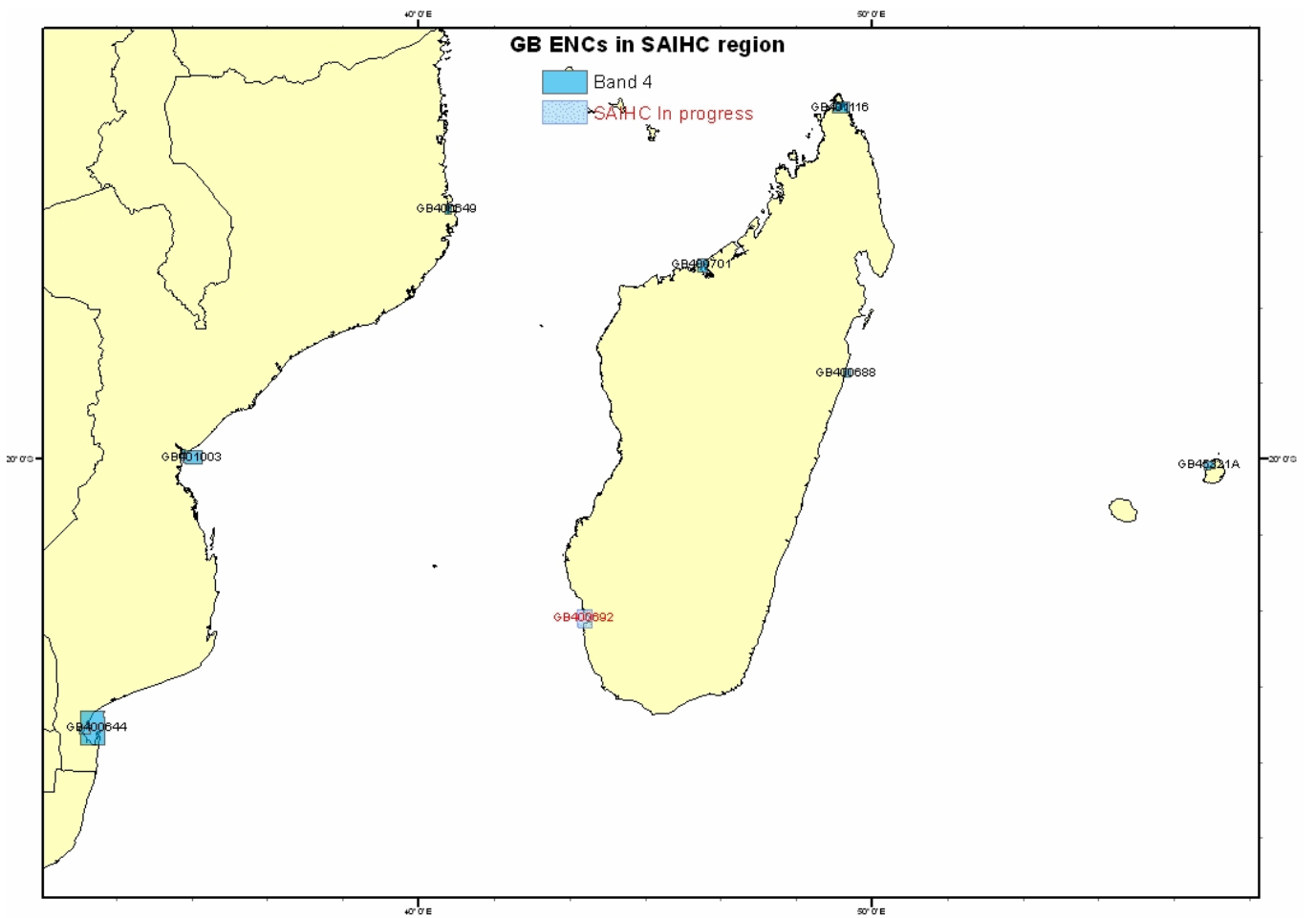
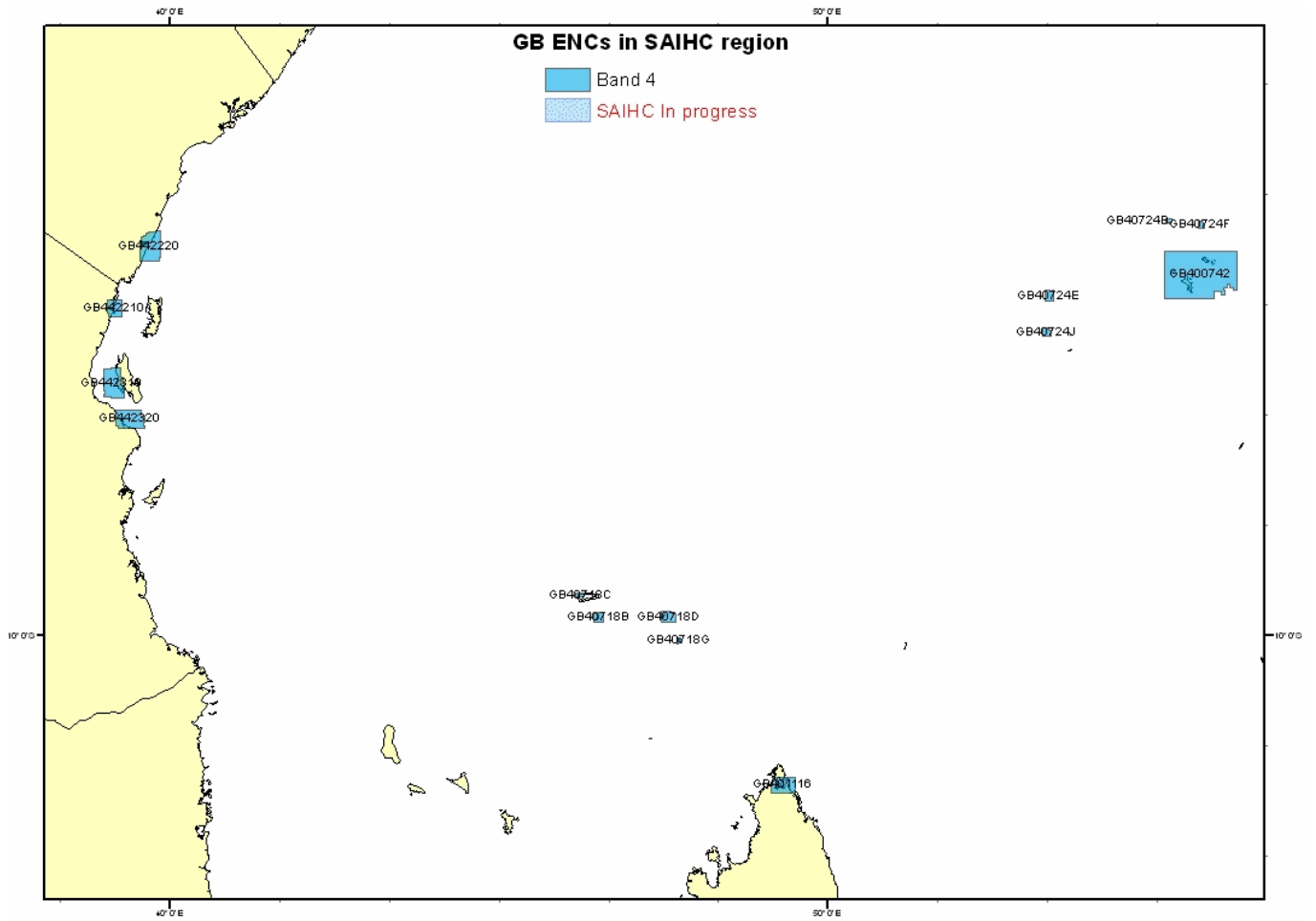
### Digital Charts

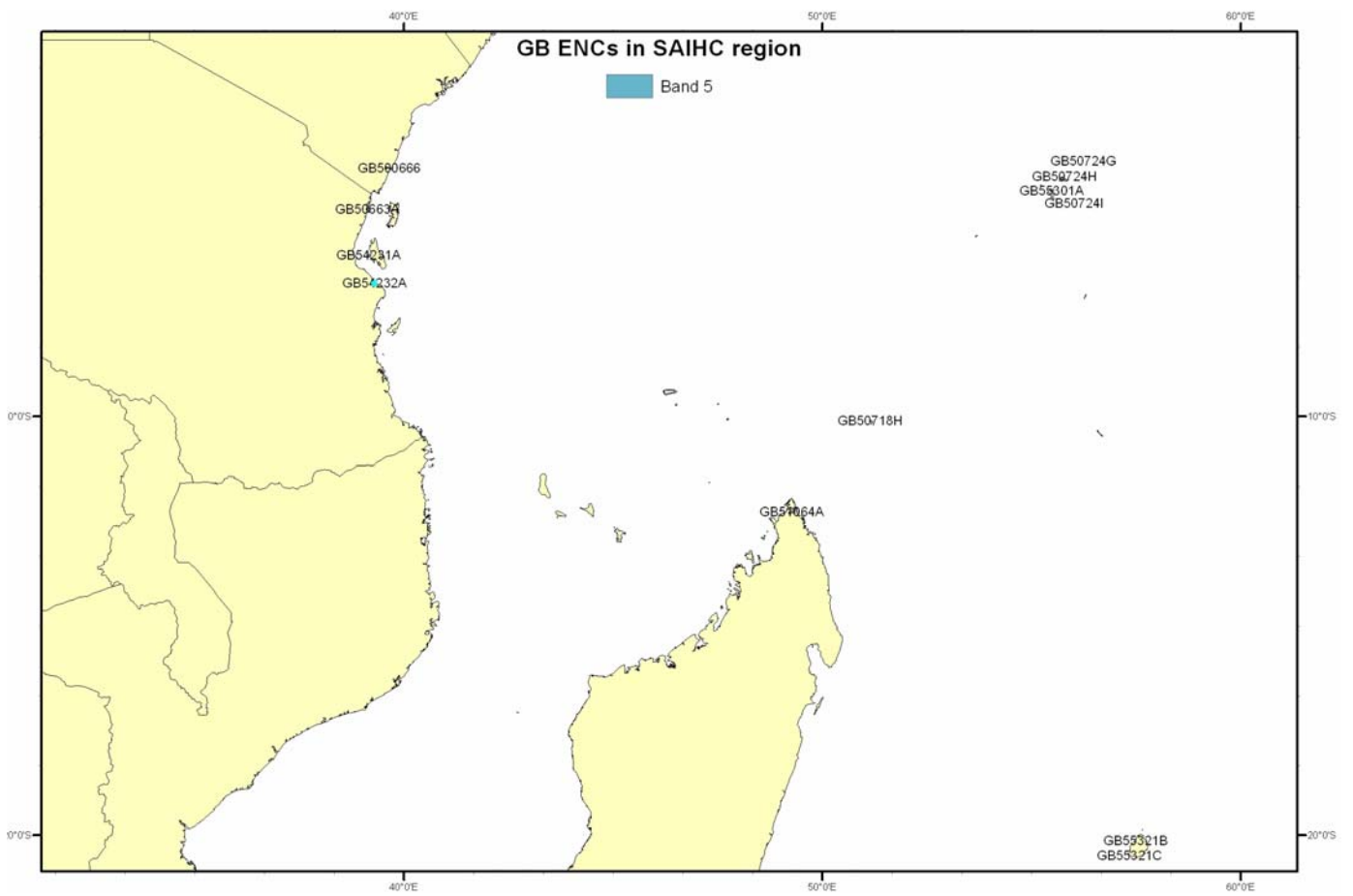
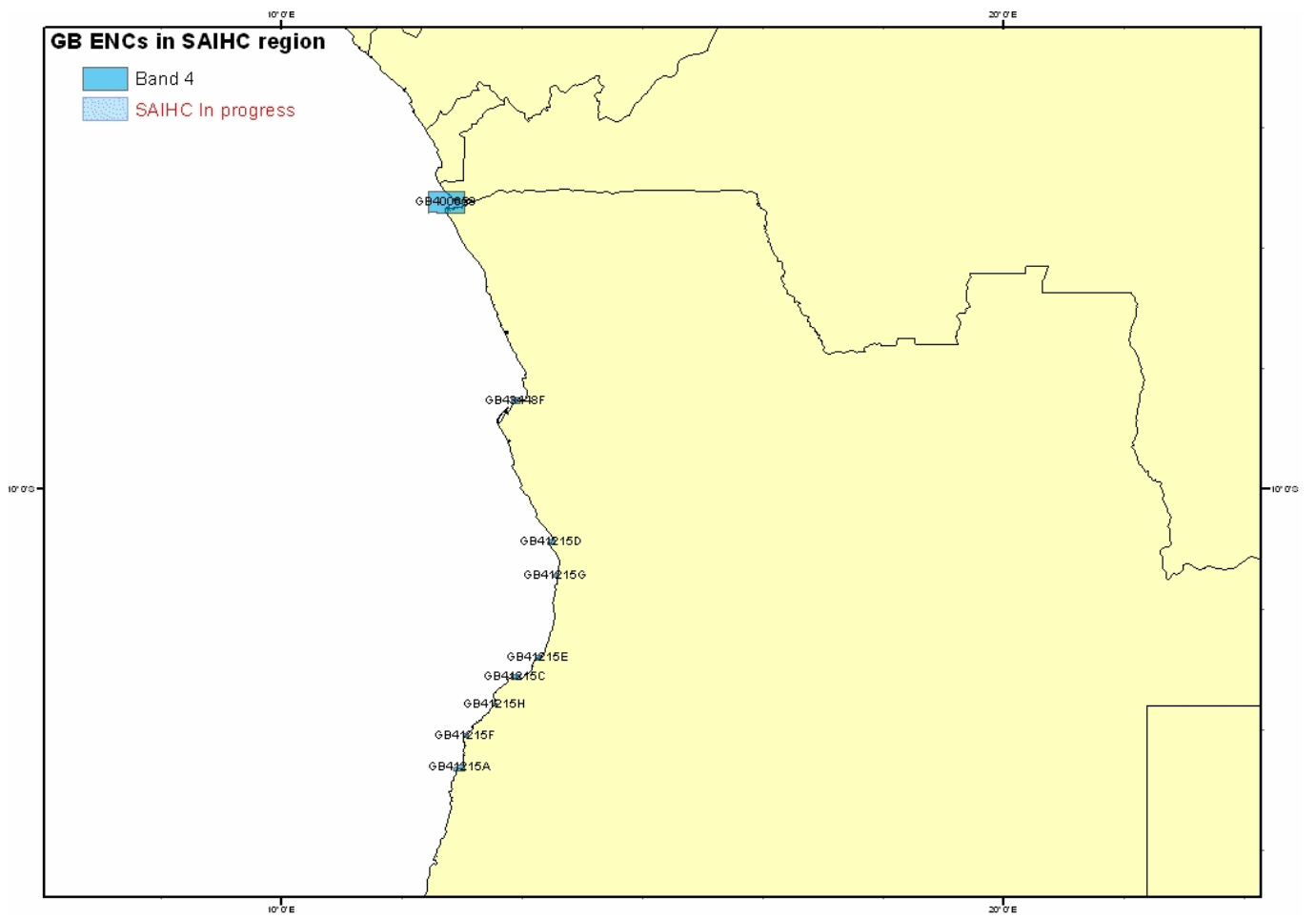
3.6 As noted in section 3.1, UK's Generic National Report provides information on UK's portfolio of chart products and services. The following paragraphs provide information specifically relevant to the SAIHC region.

### ENCs

3.7 Within the SAIHC region, UK has released a total of 107 ENC cells. Coverage currently comprises 18 Overview, 6 General, 33 Coastal, 34 Approach 16 Harbour and 3 cells in progress. See diagrams below, a detailed listing is available, if required.









## **ENC Distribution**

3.8 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 its value added resellers. Details can be found on the IC-ENC website ([www.ic-enc.org](http://www.ic-enc.org)).

## **4. PUBLICATIONS**

### **Paper publications**

4.1 The current status of Admiralty Sailing Directions in the SAIHC region is as follows:

*New Editions Published since last SAIHC meeting:*

NP01	Africa Pilot Vol 1	February 2009
NP02	Africa Pilot Vol 2	March 2011
NP39	South Indian Ocean Pilot	September 2011

*New Editions to be Published*

NP01	Africa Pilot Vol 1	July 2012
NP03	Africa Pilot Vol 3	April 2013

These publications are all maintained on a continuous revision cycle with new editions approximately every three years.

### **Digital Publications**

4.2 UK continues to develop digital equivalents to its existing paper publications; these have the two advantages to the mariner of providing additional functionality and minimising the task of updating.

4.3 The Admiralty digital catalogue may be downloaded free from the UKHO website ([www.ukho.gov.uk](http://www.ukho.gov.uk)); it includes details of all paper and digital charts and publications and is updated weekly. It is a useful tool to check on the ENC coverage within the region and to show the latest edition dates of both charts and publications.

## **5. MSI**

5.1 The UK's principal responsibility in the SAIHC region is for Ascension, St Helena and the Tristan da Cunha group of Islands. No GMDSS or WWWNS facilities currently exist in any of these territories, a reflection of their remoteness.

5.2 UK maintains close liaison with the co-ordinators for NAVAREA VII (South Africa - which covers most of the SAIHC area) and NAVAREA VIII (India - which covers a small part of the area to the NE and East). Meteorological Information and Navigational Warnings are promulgated on SafetyNET through the AOR(E) and IOR satellites; coastal warnings are broadcast on NAVTEX from stations at Walvis Bay, Cape Town, Port Elizabeth and Durban, and on SafetyNET for the area around the Kerguelen Islands.

5.3 UK provided one the trainers for the very successful training course for the SAIHC region, held in April 2010 in support of IHO Capacity Building initiatives.

## **6. C-55 (previously known as S-55) LATEST UPDATE**

6.1 As described in the UK Generic National Report, UK is committed to providing regular updates to the C-55 entries for UK Home Waters and its Overseas Territories, including, within the SAIHC area.

6.2 UK has also provided assistance to other countries to update C-55 entries, where UKHO retains the primary charting responsibility; recognizing that local input remains critical to the maintenance of C-55 as an up-to-date and authoritative reference document.

## **7. CAPACITY BUILDING**

7.1 UK fully supports the IHO Capacity Building Sub-Committee (CBSC) strategy and particularly its emphasis on putting in place Phase 1 and appropriate Phase 2 capacity in place to enable coastal states to meet their obligations under SOLAS Chapter V

Regulations 4 and 9. UK will continue to contribute resources to both CBSC initiatives and to providing bilateral assistance.

7.2 Since the last SAIHC meeting the UK has been involved in the following training:

- April 2010 - 3-day MSI Training Course in Namibia (1 UKHO training officer)
- November 2010 - 2-week Phase 1 skills, Basic Marine Cartographic Principles including an introduction to Electronic Navigational Charts training course in Kenya, sponsored by the WIO-GEFMHD-CMPP (2 UKHO training officers)
- June/July 2011 - 5-day Technical assessment visit to Namibia (1 UKHO staff member assisting in the assessment)

7.3 As reported in the UK Generic National Report, UKHO has a post dedicated to capacity building. Its key aims are to ensure that capacity building is properly considered in UKHO activity and that UKHO's capacity building activities are fully co-ordinated. It will act as the initial point of contact for UKHO involvement in capacity building activities, including UK involvement in regional hydrographic commission initiatives and IHO Capacity Building Sub-Committee activities. It will have a particular responsibility for UK Overseas Territories and liaison with UK's Foreign and Commonwealth Office and with overseas High Commissions to generate phased development of capability and new survey activity. Further information can be obtained from Mr Jeff Bryant ([Jeff.Bryant@ukho.gov.uk](mailto:Jeff.Bryant@ukho.gov.uk)).

#### **Cartographic Training provided by UKHO**

7.4 The UK Generic National Report, posted on the IHO website, includes a general description of training provided by UKHO. Further details of the training opportunities offered by UKHO are provided on the UKHO website.

#### **ENC Training and Assistance**

7.5 UKHO strongly supports the successful uptake of ECDIS using ENC, and is happy to assist other nations to produce, maintain and distribute ENCs. Details of courses, sponsorship, venues and options for bespoke training provided by UKHO are included in the UK Generic National Report, posted on the UKHO website.

#### **Hydrographic Training**

7.6 Nationally and internationally certified courses delivered by HMTG (formerly known as the RN Hydrographic School) in Plymouth, are described in the UK Generic National Report, posted on the UKHO website.

### **8. OCEANOGRAPHIC ACTIVITIES**

Nothing additional to the UK Generic National Report to report to SAIHC.

### **9. OTHER ACTIVITIES**

#### **UK Celebrations for World Hydrography Day**

The IHO theme for the 2011 World Hydrography day was "Human resources – The important element to the success of Hydrography".

The United Kingdom Hydrographic Office celebrated World Hydrography Day 2011 at a reception held on board HMS President in London on June 22 hosted by Mike Robinson and Rear Admiral Nick Lambert.

The annual presentation of the Alexander Dalrymple award was made at the reception and this year presented to National Geospatial Intelligence Agency Hydrographer, Rear Admiral Chris Andreasen, for his outstanding contribution to Hydrography. The award is a symbol of recognition for outstanding dedication and contribution to world hydrography and as such is an extremely prestigious award in this sector. It takes its name from Alexander Dalrymple who established the Hydrographic Office in 1795 and is regarded as a leading figure in the history of the development of hydrography.

Due to the theme of this years World Hydrography Day Celebrations and in order to recognise the importance and significance of the contribution of Hydrographic Staff to the

success and recognition of Hydrography, the UKHO will host a celebration in recognition of its staffs' contribution to the success of World Hydrography on Friday, September 16.

## **10. CONCLUSION**

UKHO continues its commitment to carrying forward hydrographic activities through the work of the IHO's Regional Hydrographic Commissions, and notes that each commission has its own particular opportunities and challenges. The particular challenges facing SAIHC are those of capacity building and the provision of adequate chart coverage for the region. The provision of adequate ENC coverage in support of the IMO carriage requirement for ECDIS that comes progressively into force from 2012 presents a challenge in the SAIHC region as well as others.

Taunton, August 2011

## UKHO POINTS OF CONTACT

UKHO Website: [www.ukho.gov.uk](http://www.ukho.gov.uk)

The general UKHO address is:

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For further information on this report, UKHO representation in international fora, and UKHO activities in general, please contact:

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For bilateral arrangements and other international partnering matters within the SAIHC region, please contact:

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Head of International Partnering (Europe, Middle East and Africa)  
Telephone: +44 1823 337900 ext 3362  
E-mail [Paul.Canham@ukho.gov.uk](mailto:Paul.Canham@ukho.gov.uk)

For all matters related to charting and hydrographic data in the SAIHC region, please contact:

Ms Cathy Tunks,  
Geographic Manager Regional Team 3  
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For matters related to Sailing Directions, please contact:

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