African Great Lakes and Rivers Sub Working Group (AGL&RsWG) Annual Report

SAIHC 18 9-12th May 2022 Maputo, Mozambique Presented by Nick Swadling, Interim Chair (Geographic Technical Lead- UKHO)





AGL&RsWG was established at SAICH17 as sub working group to ICCWG.

4 meetings so far with attendees from:

- Kenya
- Malawi
- Mozambique
- Tanzania
- Uganda
- Mozambique
- South Africa
- UK
- Invites have gone to Lake Victoria Basin Commission, PMAESA and Songwe River Basin Development Programme who we hope will join us at the next meeting





ToRs agreed at 2nd meeting – Key highlights

- Promote hydrography in the African great lakes and rivers for the sustainable development and use of navigable inland waters
- Identify and review the status of hydrography, navigational products and MSI provision
- Consider users requirements for navigational products and services.
- Engage with external stakeholders to identify new data sources, requirements and potential funding opportunities.
- Create and maintain a digital catalogue of navigational products.
- Create and maintain a spatial database that contains an inventory of survey extents and meta data for the use of the working group, IHO and external agencies.
- Create and maintain a digital list of Aids to Navigation.
- Identify any capacity building requirements specific to African Lakes and Rivers.





Themes of discussion so far:

- 1) Hydrography Audit
- 2) Existing charting & future Charting requirement
- 3) World Bank funded Surveys of Lake Victoria
- 4) MSDI Marine Portal
- 5) MSI for Lakes and Rivers





Hydrography Audit template sent to members 29/10/21 with the aim of better understanding:

- Vessel / User types and numbers
- Existing charting paper / ENC
- Cartographic & surveying resource
- Bathymetric surveys existing / future plans
- MSI
- Capacity building requirements

AGL&R Sub WG Hy	AGL&R Sub WG Hydrography Audit Summary - Please complete the orange boxes with as much information as you require								
Country:									
Lake:									
Last updated:									
Provided by:									
User needs	Comments								
Please provide details of the main vessel types and users:	Commence								
How many large vessels operate on the lake?									
Do vessels use paper charts for primary navigation purpose									
Are vessels fitted with ECDIS to use ENCS									
What do most local vessels use to navigate									
Do they use GPS for positioning:									
Do trieg ase air 5 for positioning:	Passage								
Chart coverage (number of charts)	planning (small scale)	Coastal (medium scale)	Port (large scale)						
Modern paper chart									
Historical paper chart									
Raster chart									
ENC									
Status of Paper Charts									
Paper charts with depths in meters (number of charts):									
Paper charts referenced to a satellite datum (number of cha	rts):								
How many trained cartographic production staff are in your	organisation								
Who produces your charts of the Lake									
What cartographic IT packages do you use:									
Do you require Cartographic production support, please pro	vide details:								
Please provide a separate graphical catalogue in		paper chart :							
Comments on charting coverage, status and car	tographic pro	duction capa							
% coverage and status of bathymetric surveys	Multibeam(%)	ingle beam(%	Lead line (%)	No survey (%)					
0-50m									
50-200m									
What future bathymetric survey plans exist for the lake:									
When was the last bathymetric survey carried out:									
Do you have a survey vessel with a trained surveyor team:									
Do you hold digital copies of the surveys:									
Have you completed a review of your survey data holdings:									
Does the lake have local datum surveying bench marks:									
Does the lake have functioning water level guages:									
Please provide a separate graphical image showing survey	extent coverage o	of the lake							
Do you require assistance in evaluating survey needs and cr			ecifications fo	surveus:					
Comments on survey coverage, status and surv									
MSI & Notices to Mariners	Yes/No	C		-f si si bull-si d dii					
	Tesmo	comments o	iii rrequency	of notice to mariners bulletin and radio warnings.					
Printed notice to mariners bulletin									
Internet notice to mariners bulletin									
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Results of audit- So far we have received 2 Audit Summaries Key extracts include:

- Navigation is primarily on paper charts
- Modern charts available for some Lakes but only Historical charts for Lake Victoria.
- Limited numbers of larger vessels operate
- GPS used on larger vessels for positioning
- Cartographic Training requirement
- Cartographic software upgrades required
- Printing of charts can be problematic
- Nav Radio warning group should be considered to be formed within AGL&RsWG
- Search & Rescue developments on Lake Victoria





Existing charting & Future Charting requirement



CENTRAL AFRICA

VICTORIA NYANZA (NORTHERN PORTION)

SURVEYED BY

COMMANDER B.WHITEHOUSE, R.N., AND Mª C.S. HUNTER, UGANDA RAILWAY SURVEYS, 1900-01.

With additions and corrections to 1955.

All bearings are True (thus: 426°etc) and are given from Seamerd.

All heights are expressed in feet above the level of the lake.

For abbreviations see Admiralty Chart 5011.

Natural Scale 251,000 (Lat.1.15'S.)

The boundaries shown on this chart are approximate only.

SOUNDINGS IN FEET

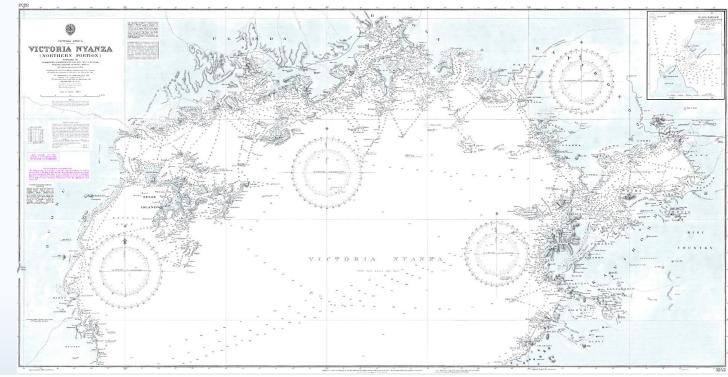
Reduced to level of zero of Port Florence gauge, 3726:15 feet above Mean Low Water, Mombasa.

Scale of Statute Miles

o 5 10 15 20 Miles

NOTE

From latest determination of Kisumu (Port Florence) (see chart 3256), the South Latitudes on this chart should be reduced and the North Latitudes increased about 12, the Longitudes should be reduced about II. THIS CHART IS NOT SUBJECT TO CORRECTION BY NOTICE TO MARINERS



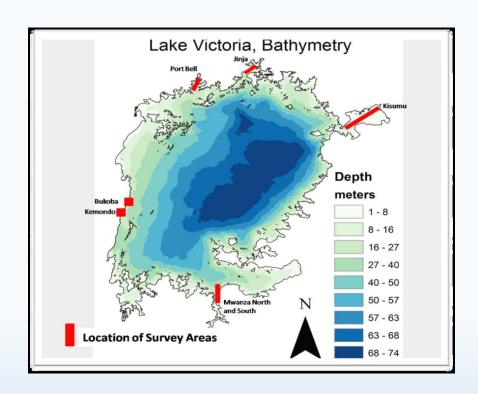




World Bank Surveys

UKHO through AGL&RsWG has reached out to the World Bank and Royal Haskoning and has now received survey data for six ports on Lake Victoria

Surveys were funded by the World Bank and collected by Royal Haskoning in 2018

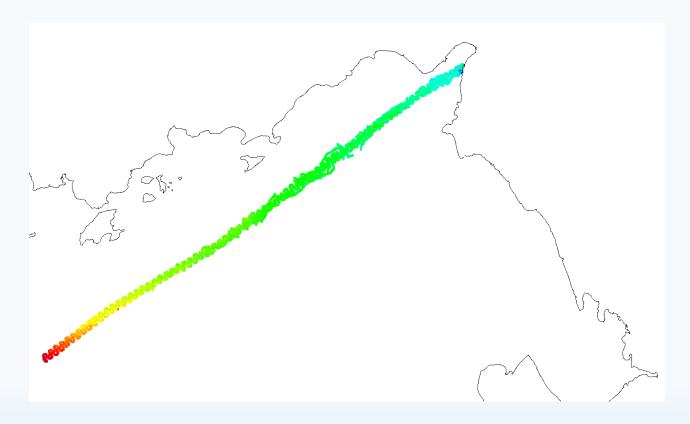


S/N	Name of Port	Area Type	Shipping Channel Dimension	
1.	Mwanza North and	Shipping Channel	13km by 250m wide	
1.	Mwanza South Ports		13kiii by 230iii wide	
2.	Kemondo Bay Port	Whole Bay- Surface area 13.5 km ²	5km by 250m wide	
3.	Bukoba Port	Port Area - Surface Area 6 km ²	2km by 250m wide	
4.	Port Bell	Shipping Channel	15km by 250m wide	
5.	Jinja Port	Shipping Channel	7km by 250m wide	
6.	Kisumu Port	Shipping Channel	35km by 250m wide	





Kenya - Kisumu

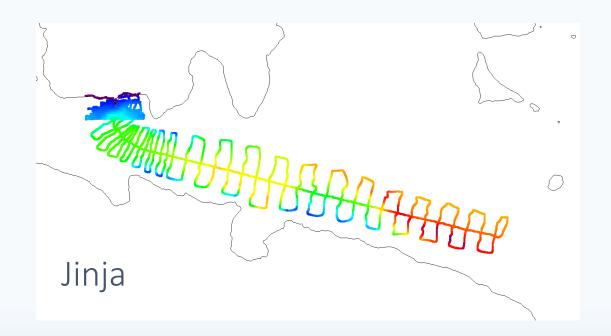


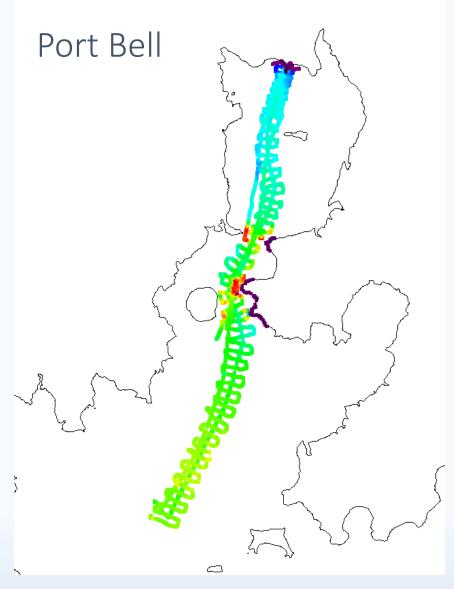






Uganda

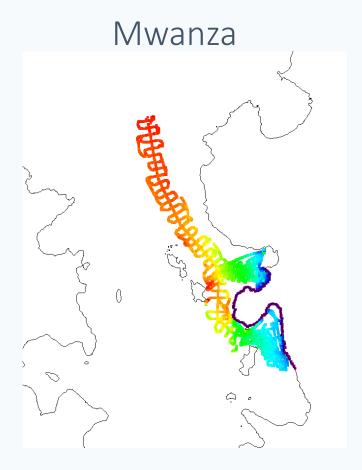


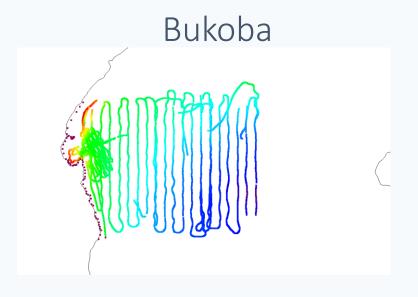






Kemondo Bay





Tanzania





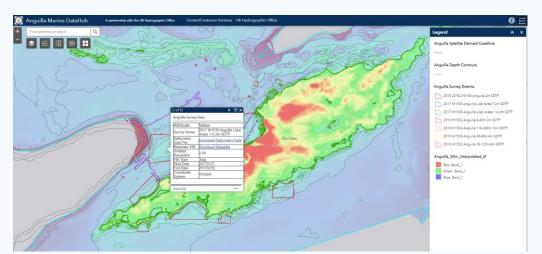
MSDI

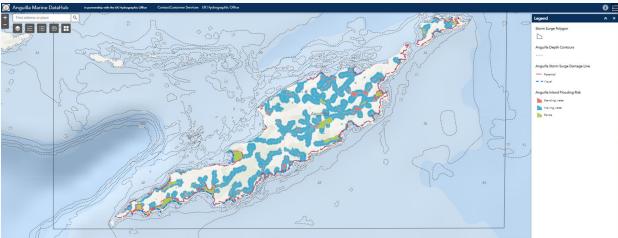
- Tim Lewis has updated the group on UKHOs MSDI journey and introduced the idea of a data portal to support AGL&RsWG.
- CL 2/21 (1/11/2021) distributed to members regarding requirements for a data portal to support AGL&RsWG.
- Portal could support management of navigational safety and hydrography on the lakes.
- Support opportunities for new navigational products to be made by giving visibility of the requirement for new and existing data.
- Discussions around sharing of data between members and wider audiences.

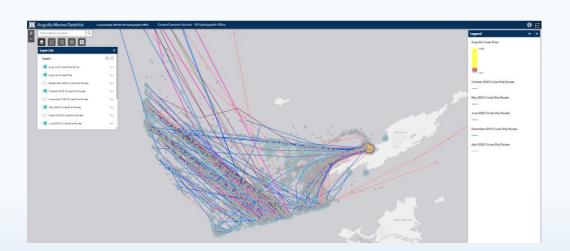


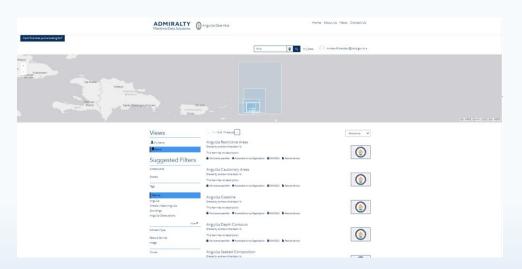


AGL&RsWG Data Portal discussions













MSI

- Upcoming IHO funded MSI course, October 2022, location tbc
- Discussion with Chris Janus WWNWS Chair on options for Lakes MSI due to technical VTC issues at the 4th meeting, Chris will be invited to the next meeting.
- Hand held 'App' option for lakes MSI





Other business

- Opportunity for Technical Working Group meeting at the lakes to share experience and opportunities
- Interim chair to write CL to members to discuss this opportunity.



AGL&RsWG permanent Chair

- There were no nominations for permanent chair of the WG.
- Any members interested in becoming permanent chair to contact the secretary.



Actions from 4th Meeting

No	Action	Due Date	Lead	Status
1	Members to provide comments and feedback to understand data portal requirements for the group as per letter sent by SAIHC MSDI Chair	4 March 2022	Members	
2	Members to complete African Great Lakes & Rivers audit including MSI	6 December 2021 Extend deadline to March 2022	Members	
3	Provide information on the SAIHC MSI funded course planned for mid-2022	January 2022	UK	
4	Members, through their respective organisations, to consider taking on the role as Chair of this African Great Lakes & Rivers Sub Working Group. Provide submission to Secretary	6 December 2021	Members	
5	Interim Chair to write letter to members to discuss and coordinate a Technical Working Group Meeting to Lakes		Interim Chair	
6	SAIHC Chair to write letter to Government bodies of members to encourage sharing of data to support safety of navigation		SAIHC Chair	



