



20th MEETING OF THE CAPACITY BUILDING SUB-COMMITTEE

MBSHC REPORT

MBSHC CB PLAN-2021

#	Activity	Participants
1	<i>Transition to S-1xx Products (Online Workshop)</i>	<i>Tunisia, Malta, Turkey, Italy, Spain, Bulgaria, Romania, Ukraine, Georgia, Croatia, Montenegro, Lebanon</i>
2	<i>Airborne Lidar Bathymetry (Online Workshop)</i>	<i>Tunisia, Malta, Turkey, Italy, Spain, Bulgaria, Romania, Ukraine, Georgia, Croatia, Montenegro, Lebanon</i>
3	<i>Using AI as Sonar Noise Classifier (Webinar)</i>	<i>Tunisia, Malta, Bulgaria, Romania, Ukraine, Georgia, Croatia, Montenegro, Spain, Italy, Turkey, Lebanon</i>
4	<i>Cartographic Data Management (Face-to-face Workshop)</i>	<i>Tunisia, Malta, Romania, Ukraine, Georgia, Bulgaria, Montenegro, Lebanon</i>
5	<i>Webinar on Satellite-derived Bathymetry</i>	<i>Over 500 attendance globally</i>

SATELLITE-DERIVED BATHYMETRY WEBINAR

30 June 2021, 13:30 CEST



Organized by:

The Mediterranean and Black Seas Hydrographic Commission (MBSHC),
with kind contribution of SHOM



Sponsored by:

EOMAP



CONTENT:

Fundamentals
Uncertainties
Recognition of SDB in IHO
Technological Progress
Machine Learning Applications
Experience & Use cases
Products & Services
Hands-on Experience

For further information:

Emre GÜLHER
egulher@shodh.gov.tr
gulheremre@gmail.com

Link - <https://us02web.zoom.us/j/85656834467>

Passcode - 985482

PRESENTERS:



Dr. Thomas Heege
Managing Director at EOMAP



Mona Reithmeier
Data Analyst at EOMAP



Sophie Loyer
Proj. Manager at SHOM



Filippo Tonion
Consultant at TERRA SRL

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SATELLITE-DERIVED BATHYMETRY WEBINAR

28 September 2021, 16:00 UTC

CONTENT

- SDB Basics & Beyond*
- Applications & Use Cases*
- Hydrological Time Series*
- SDB DaaS & SaaS*
- Hydrographic Office Use of SDB*
- SDB Data Management*
- Derived Products & Charting*
- Technological Advancements*
- Hydrographic Applications of EO Data*

Opening Speech on the Role of SDB in Hydrography given by Captain Van Den Aemele, Chief, Marine Chart Division, NOAA.

For further information:

Emre GÜLHER
 egulher@shodb.gov.tr
 gulheremre@gmail.com



PRESENTERS



Kyle Goodrich
President & Founder
TCarta



René Chénier
Manager of Geodetic Engineering
DFO Canada



Erin Johnson
Remote Sensing Analyst &
Product Manager
TCarta



Rafael Ponce
Principal Maritime Consultant
Esri

Esri, HERE, Garmin, INCREMENT P, USGS, EPA, USDA

Artificial Intelligence in modern Hydrography

Presented on behalf of the Mediterranean
and Black Sea Hydrographic Commission

NOVEMBER 1, 2021 8AM ET (US/CAN) / 3PM TRT (TURKEY)

TOPICS

- Overview of using AI in modern hydrography
- Background on Machine Learning, Neural Networks, and Deep learning
- Current Uses of AI
- Future possibilities

PRESENTER



Burns Foster
Innovation Manager
TDY Geospatial



Teledyne Geospatial
Imaging Solutions for Land and Water



Teledyne Geospatial
Imaging Solutions for Land and Water

Airborne Lidar Bathymetry

Theory and Practice

NOVEMBER 17, 2021 12AM ET (CAN/US) / 6AM CET (NETHERLANDS) / 8AM TRT (TURKEY)

TOPICS

- Introduction and background on bathymetric lidar
- Flight planning and data collection
- Lidar data processing using BASE Editor (software demo)
- Bathymetric lidar in practice: survey preparation, execution and results

PRESENTERS



Jen Aitken
Product Manager
TDY Geospatial



Vinod Ramnath
Research Scientist
TDY Geospatial



Jia Gong
Customer Service Advisor
TDY Geospatial



Charles de Jongh
Sales Manager, Bathymetry
Terratec

Presented on behalf of the Mediterranean
and Black Sea Hydrographic Commission



Teledyne Geospatial
Imaging Solutions for Land and Water

Transitioning to S-100

Presented on behalf of the Mediterranean
and Black Sea Hydrographic Commission

NOVEMBER 22, 2021 9AM - 4PM UTC+3 (TURKEY)

TOPICS

- S-100 Overview
- Specifications
- Support
- Encoding
- Practical

PRESENTER



Simon Matthews
Product Manager
TDY Geospatial



Teledyne Geospatial
Imaging Solutions for Land and Water

ADDITIONAL OPPORTUNITIES



United Kingdom
Hydrographic Office

UKHO Virtual Training Events

- Understanding ENC's*
- Introduction to S-57*
- Compiling for Navigational Safety*



Escuela de Hidrografía (ESHIDRO) «Alejandro Malaspina»



The School of Hydrography (ESHIDRO) is located in the facilities of the Spanish Navy Hydrographic Office.

- Equipment & Vessel*
- Knowledge & Capacity*

138 international students have attended the CB activities since 1969 (in Spanish).





Courses at ESHIDRO (Cádiz)



- Hydrography Specialization Course of **Category-A** (10 months)
- Hydrography Specialization Course of **Category-B** (10 months)
- Hydrographic Surveys **Basic Course** (*8 weeks*)
- Hydrography & Cartography **Middle Course** (*15 weeks*)
- Hydrographic Equipment Management **Basic Course** (*8 weeks*)
- Processing Multibeam Data & Acquisition **Advanced Course** (*15 weeks*)
- Photogrammetry (*2 weeks*)
- Graphic Arts for Nautical Charts & Publications (*4 weeks*)
- AWNIS (Allied Worldwide Navigational Information System) (*1 week*)

MBSHC CB PLAN-*THREE YEARS*

#	2021
1	<i>Transition to S-1xx Products (Online Workshop)</i>
2	<i>Airborne Lidar Bathymetry (Online Workshop)</i>
3	<i>Using AI as Sonar Noise Classifier (Webinar)</i>

#	2023
1	<i>MSI Development (Workshop)</i>
2	<i>ENC Quality Assessment (Workshop)</i>
3	<i>Disaster Response (Workshop)</i>

#	2022
1	<i>Implementation of LoTS (Online Workshop)</i>
2	<i>MSDI Implementation (Workshop)</i>
3	<i>Optical Bathymetry (Webinar)</i>
4	<i>Cartographic Data Management (Workshop)</i>

#	2024
1	<i>Technical Visit to Lebanon</i>
2	<i>Technical Visit to Albania</i>

FINAL WORD

ACTIONS REQUESTED FROM CBSC

Note the report.



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