

South Bay Model Shipwrights

Founded by Jean Eckert 1982

Website: <http://www.sbmodelships.com>



Fig. 1. USS Constitution (US Navy)

Hope everyone had a Happy July 4th!



Future Course Headings...

- **Future meetings-Still cancelled until further notice**

(Ken Lum): The Los Altos Public Library, where we usually hold our club meetings remains closed. Admittedly, there is not much to report on at the present time. I hope everyone is using this down time to do some modeling. Should you have an interesting project under construction, we would all be most interested in seeing what you are doing. Please send pictures of your project to Ken Lum at: lum40@comcast.net for publication in the **Foghorn**.

The club officers are exploring the prospect of doing Zoom meetings. We just completed a trial run and plan on a first meeting next **Wednesday, July 22 at 8 PM**. More on this later in our email inboxes.

- **All local museums are closed until further notice due to the coronavirus outbreak.**

- **Saturday, September 26, 2020, 9 AM-5 PM:**

The International Plastic Modelers Society (IPMS)/Silicon Valley Scale Modelers 7th Annual Silicon Valley Classic scale modelling convention has been tentatively rescheduled for this day and time at **Napredak Hall, 770 Montague Expwy, San Jose, CA**. We have had exhibitions there annually over the last several years in conjunction with **Ages of Sail** and always had great fun. Here are a couple of pictures from the last convention last spring (Fig. 2 and 3).



Fig. 2 Clare Hess at the Ages of Sail table Fig. 3 Various WW 2 ship models on display

Should this convention go forward, our table will need volunteers to staff it all day, and we can set up an informal shift schedule to have at least one person on duty to promote our hobby. **And we promise not to use impressment!** More on this event at:

<https://calendar.ipmsusa3.org/event/silicon-valley-classic-vii-rescheduled-sep-26th>



Maritime Matters of the Month

- ***USS Bonhomme Richard Catches Fire in San Diego (Ken Lum):***

The **Wasp**-class amphibious assault ship, **USS Bonhomme Richard**, caught fire while docked at Naval Station San Diego on Sunday,

July 12 (Fig. 4). It has taken several days to gain control over the fire and damage is expected to be extensive.



Fig. 4. The assault ship ***USS Bonhomme Richard*** on fire at Naval Station San Diego (US Navy)

Altogether some 60 crew and fire fighters sustained non-life-threatening injuries in the incident. The ship had some fuel oil and flammable ordnance on board at the time. Due to the use of some 600,000 gallons of water to fight the fire, the ship is now listing significantly to port.

The ***USS Bonhomme Richard*** was in port undergoing modifications to accommodate new F-35 fighter jets. It is not yet known what caused the fire or why the fire propagated so rapidly and extensively throughout the ship. Nor is it yet known if the ship can even be salvaged and brought back to operational status. This catastrophe may have major implications on future ship design and operational protocols.

- **Project Seabed 2030 to Map the World's Ocean Floor in High Resolution by 2030 (Jim Rhetta):**

While some 71 percent of the Earth's surface is covered in water, only about 9 percent of that oceanic seafloor has been mapped to high definition as of 2019. That leaves much that is unknown about the Earth's

oceans. With the help of \$ 3 billion in funding, mostly from the **Nippon Foundation**, a private Japanese, non-profit grant-making organization, a partnership has been established with the **General Bathymetric Chart of the Oceans (GEBCO)** to map all of the world's ocean floors in high definition by 2030. This will be done via a project called **Seabed 2030** which was started in 2017 under the auspices of the **International Hydrographic Organization (IHO)** and the **Intergovernmental Oceanographic Commission (IOC)** of **UNESCO** (Whew! Got all that?! There's more to come!).

Mapping of the ocean floors began with cartographic collections of depth soundings as early as the 16th Century. The first attempt at establishing international standards for mapping the sea floor was done at the **7th International Geographic Congress (Berlin, 1899)** leading to the founding of a Commission on sub-oceanic nomenclature headed by **Prince Albert I of Monaco**. This commission's efforts led to the publication of the first edition 24 sheet **Carte Générale Bathymétrique des Océans [General Bathymetric Chart of the Oceans (GEBCO)]** printed in Paris in 1905 at a scale of 1:10 million (Fig. 5).

The data for these maps came from ships measuring the distance from the ocean surface to the sea floor with traditional weighted sounding lines which was a very tedious procedure. Oceanic cable laying companies were often the source of this information.

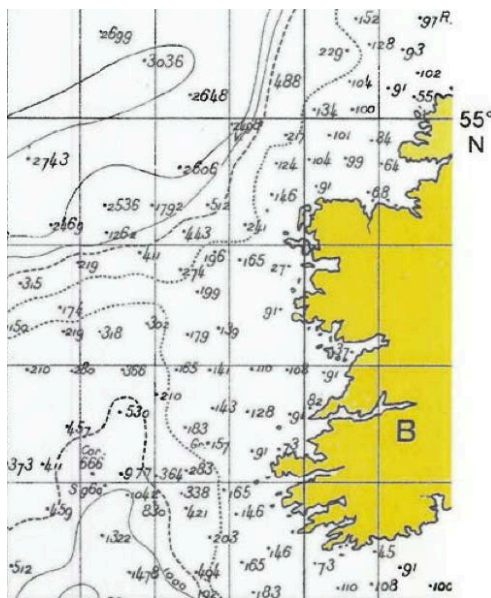


Fig. 5. GEBCO 1st Ed. 1903. West coast of Ireland sample. Depth soundings in meters. (GEBCO)

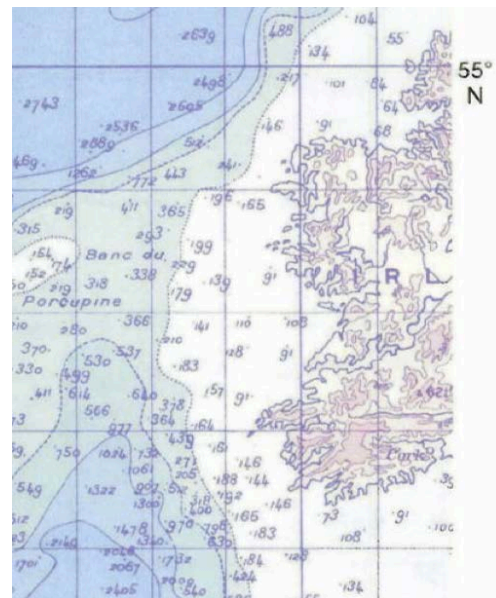


Fig. 6. GEBCO 2nd Ed. 1926. Same location and nomenclature as Fig. 5 for Figs. 6-8, 10, 11. (GEBCO)

Inadequacies in these initial charts led to a second commission being convened in Monaco in 1910. A second edition (Fig. 6) of charts was

published between 1921 to 1931 containing terrestrial contour lines and revised nomenclature incorporating new data from sonic and ultrasonic devices. After the death of Prince Albert I in 1922, responsibility for these charts was passed on to the **International Hydrographic Bureau** which became the **IHO** in 1921.

Third (Fig. 7) and fourth (Fig. 8) editions of the **GEBCO** were started in the 1930s but were delayed due to economic hardship and war. Only a few charts were even published by 1972, and they had hopelessly fallen behind new survey and publishing technologies.



Fig. 7. GEBCO 3rd Ed. 1937. . (GEBCO)

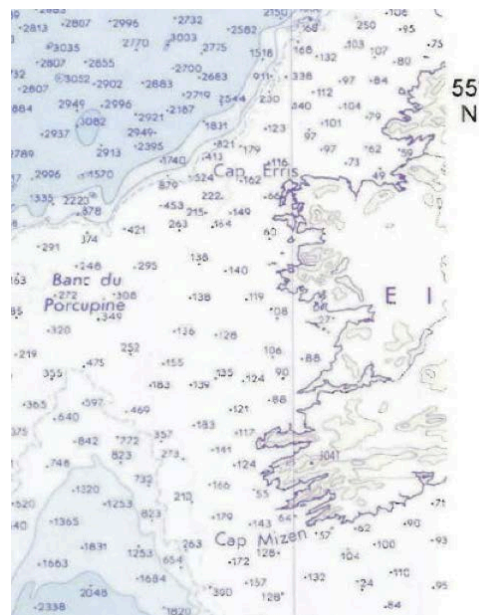


Fig. 8. GEBCO 4th Ed. 1966. . (GEBCO)

The **Scientific Committee on Oceanic Research (SCOR)**, established in 1957 as part of the **International Council of Scientific Unions**, now called the **International Science Council (ISC)**, made recommendations to modernize the whole map series. Data for these maps were collected using sonar and new multibeam echo-sounding devices (Fig. 9) that could acquire data that a computer can use to generate a pictorial map. These maps were published as a fifth edition (Fig. 10) in 1982 keeping the original 1:10 million scale.

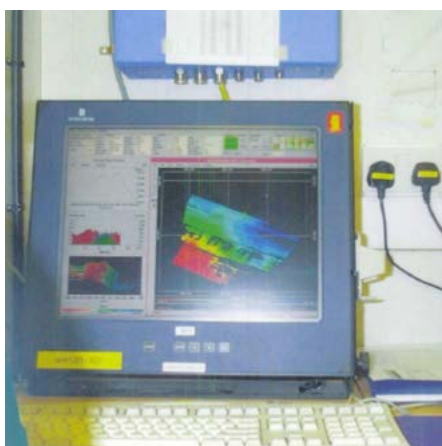


Fig. 9. Display of the Simrad EM-120 multibeam echo-sounder

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was digitized and issued as a CD-ROM in 1994 as the first **GEBCO Digital Atlas (GDA)**. In 2003, a [Centenary Edition of the GEBCO Digital Atlas](#) was released and updated through 2015 as a 6th edition (Fig. 11) with the scale enlarged.

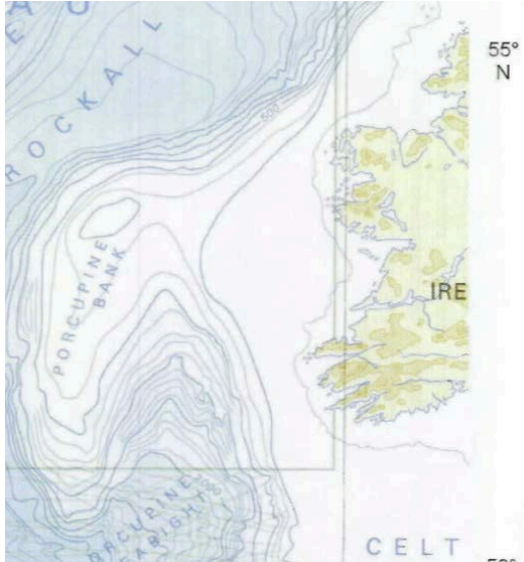


Fig. 10. GEBCO 5th Ed. 1978.
 . (GEBCO)

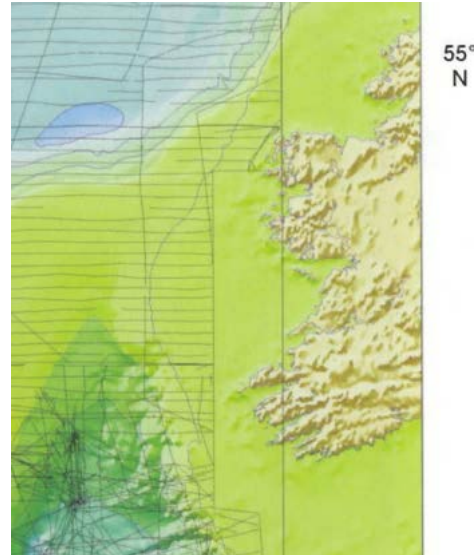


Fig. 11. GEBCO Digital Atlas
(GDA) 6th Ed. 2003. . (GEBCO)

And now, with the **Seabed 2030** project, high resolution data will be collected with great efficiency from operators of underwater drones, merchant ships, fishing boats, oceanic natural resource prospecting companies, etc. to produce computer generated maps. Dutch deep-sea energy prospector **Fugro** and **Ocean Infinity**, a company using submarine drones to explore the deep ocean, are examples of private companies contributing data to this project.

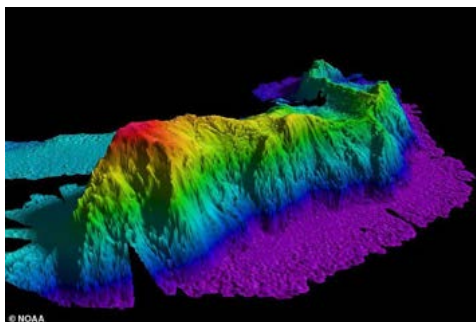


Fig. 12. Modern digital map of a
sea floor mountain range. (NOAA)

The resolution of these maps will vary with depth ranging from 100 m x 100 m at 0-1500 m depth to 800 m x 800 m at 5750–11,000 m depth (Fig. 12). It is hoped that this mapping project will provide information about altogether new geologic features, locations of wrecks, previously unknown locations of natural resources, fish movements, pollution sources, tsunami sources, etc.

And so, you wonder where maps of the world's ocean floors come from? It's from **GEBCO**! And if anyone discovers **Godzilla**, I hope they tell us!



Under (Re-)Construction at the Model Ship-yard



Fig. 13. The **HMS Beagle** model was returned to the owner Greg Watkins (right) in a case made by Walt Hlavacek (left).



Fig. 14. The case was made to match and fit on an antique radio that Mr. Watkins owns. They are both proud and cherished parts of his household.



Fig. 15 and 16. The next project is a cleaning and restoration of a ***Santa Maria*** model ship that was been in Mr. Brendon McClosky's family since the 1960's. It was made in Spain as a decorative model but has high sentimental value to the family. After the cleaning Walt will also make a case for it to the family's decor.

There is an article on another ***Santa Maria*** model restoration in the latest issue of the **Nautical Research Journal**. However, the above model is not meant to be particularly accurate so scholarly research for this model seems unlikely to be relevant. However, for those interested, here is the citation.

Koehler, L., **Restoration of a model *Santa Maria***, NRJ, Vol. 65, No. 2, Summer, 2020



SBMS Club Officers

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2020 Meeting Dates: All in-person club meetings are cancelled by the Los Altos Public Library until further notice.

Wednesday, July 22 at 8PM. we will have a virtual Zoom club meeting come Stay tuned for further news.



2020 Annual Club Membership

Send in your 2020 Club Membership with attached renewal form! Submit a \$20 check made out to South Bay Model Shipwrights and mail to Jacob Cohn, 726 7th Ave, Redwood City, CA 94063. Welcome Aboard!

2020 Membership Form

Make check out for annual membership of \$20.00 to South Bay Model Shipwrights and mail to Jacob Cohn, 726 7th Ave, Redwood City, CA 94063

Print your name _____ Phone# _____



Address

Receive our Foghorn newsletter by email? Yes ___ No ___

Email address _____

To order a club name badge, add \$15.00 to your check and print your name exactly as it should appear on the badge