DEMONSTRATION OF THE NEW MULTIBEAM SONAR

As a contribution to the maritime industry an assessment was made of the Sonic 2024 broadband multibeam sonar, a unit that inaugurates the third generation of this type of maritime instruments.

The equipment is manufactured by the company R2 Sonic, located in California, United States. The Sonic 2024 is used by defense institutions, maritime engineering firms, construction companies, port companies and academic organizations.

This sonar employs focused narrow beams and a high sampling rate to deliver unprecedented detail of the marine bottom and achievement of a range that is not possible to obtain with narrow band equipment. This technology allows the user to operate on variable frequencies selected depending on ambient conditions, depths or work objectives. This additionally makes it possible to get away from the noise generated by external sources, such as that made by the vessel or other sensors operated simultaneously on board the vessel. Another of its features is that it provides the possibility to open or compress the scanning arc also in real time without the loss of data and also to rotate the scan in the starboard or port direction to facilitate the work on vertical structures.

Sonic 2024 presentation in Valparaíso

BENTOS performed a demonstration of this equipment in Valparaíso from 12 through 16 July. Specialists of various organizations linked with the maritime, port, naval and academic world participated in the demonstration. The purpose of the activity was to show the functioning of this instrument that is very important for our sea by our technicians. During the demonstration, the visitors were taken to various points on the bay and were shown how this equipment operates and the results that are possible to obtain with its use.

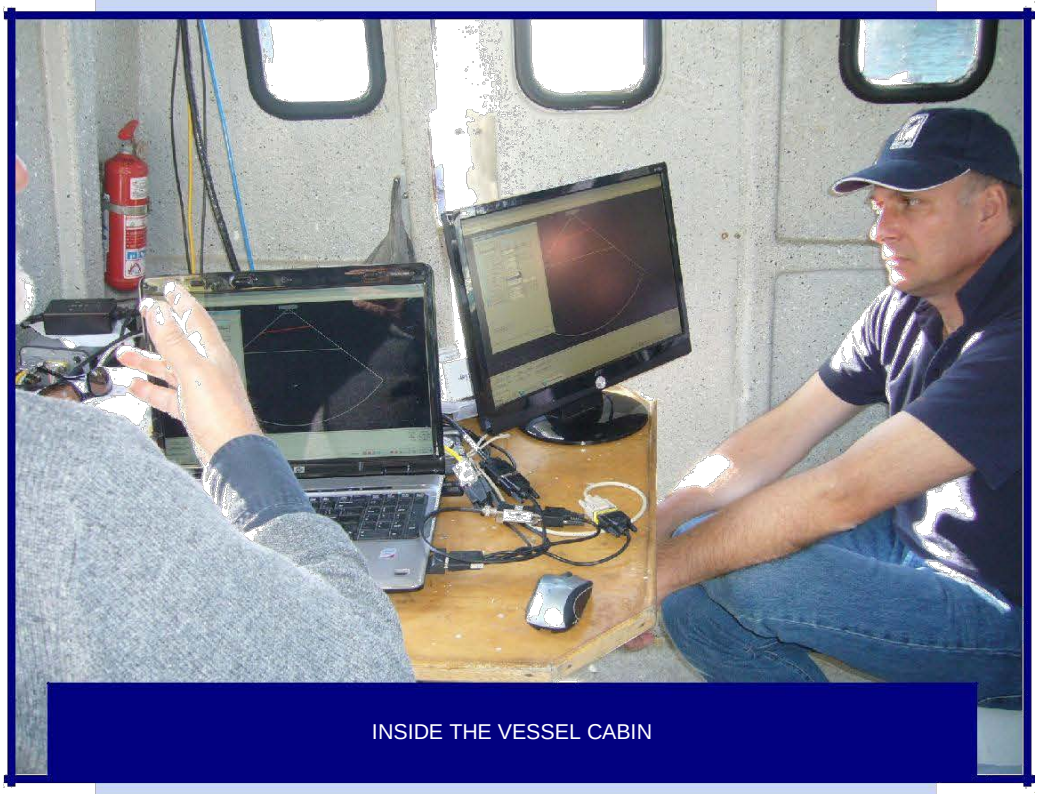
BENTOS is the only civilian organization on the west coast of Latin America that has and operates a multibeam sonar. In fact, four years ago, BENTOS incorporated its first equipment unit and since then has participated in various projects on the Chilean scene, such as the Chacao Bridge, definition of the submarine cable route for the Austral Cable Project, submarine cable routes (down to a depth of 2500 meters) on Robinson Crusoe Island, submarine power cable project, port engineering work and others.

Attached herewith are some images obtained in Valparaíso for those of our friends who were unable to attend.

DELIVERING TECHNOLOGY TO OUR CLIENTS!

PREPARATION OF THE VESSEL
SONAR HEAD (BLUE) WITH SVP SOUND

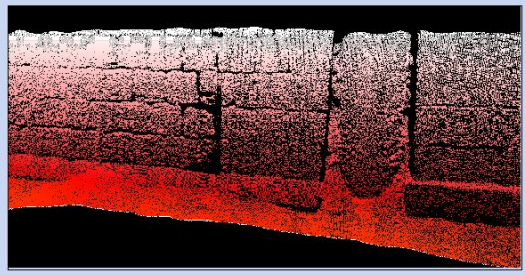
SUPPORT FOR THE SONAR HEAD
ON THE GUNWALE

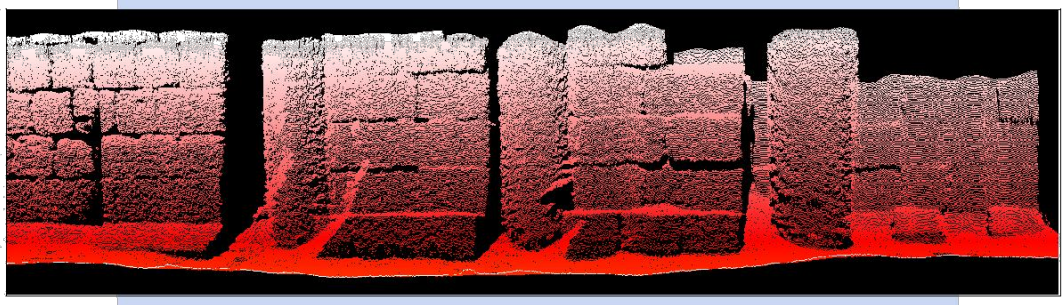


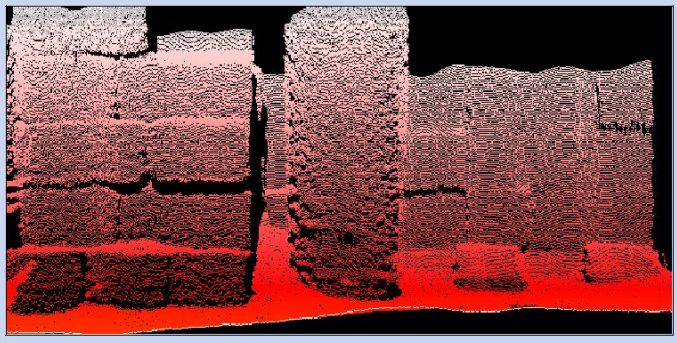
INSIDE THE VESSEL CABIN

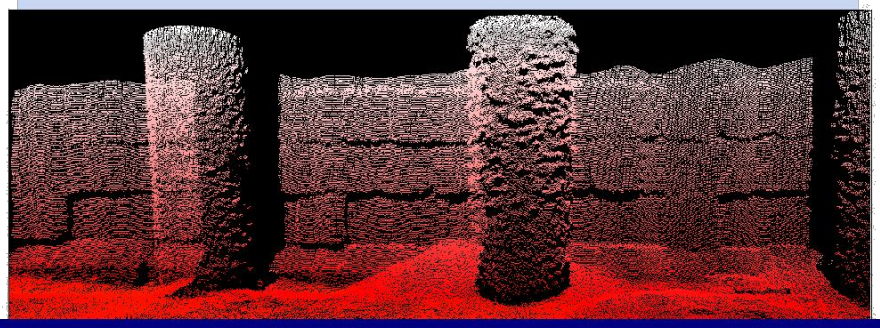
SOME OF THE ATTENDEES AT THE DEMONSTRATION

THIS WAS ONE OF THE INTERESTING POINTS IN THE DEMONSTRATION,
THE WALL AT BERTHS 3-4 OF THE PORT.

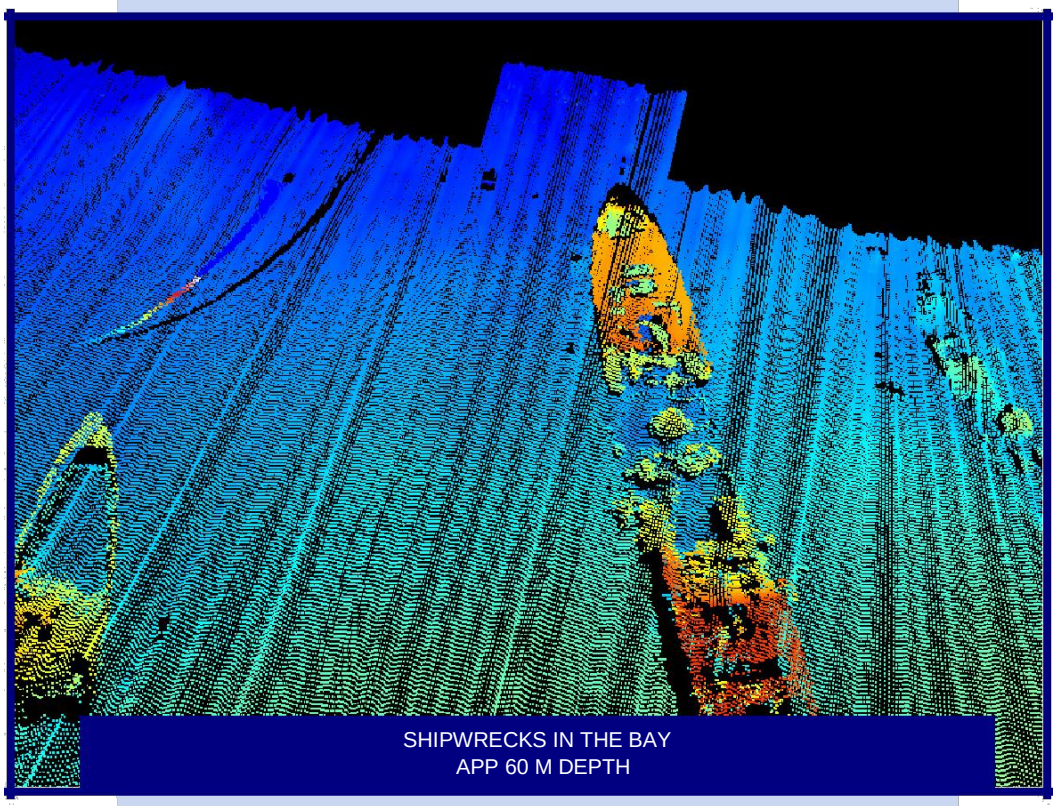




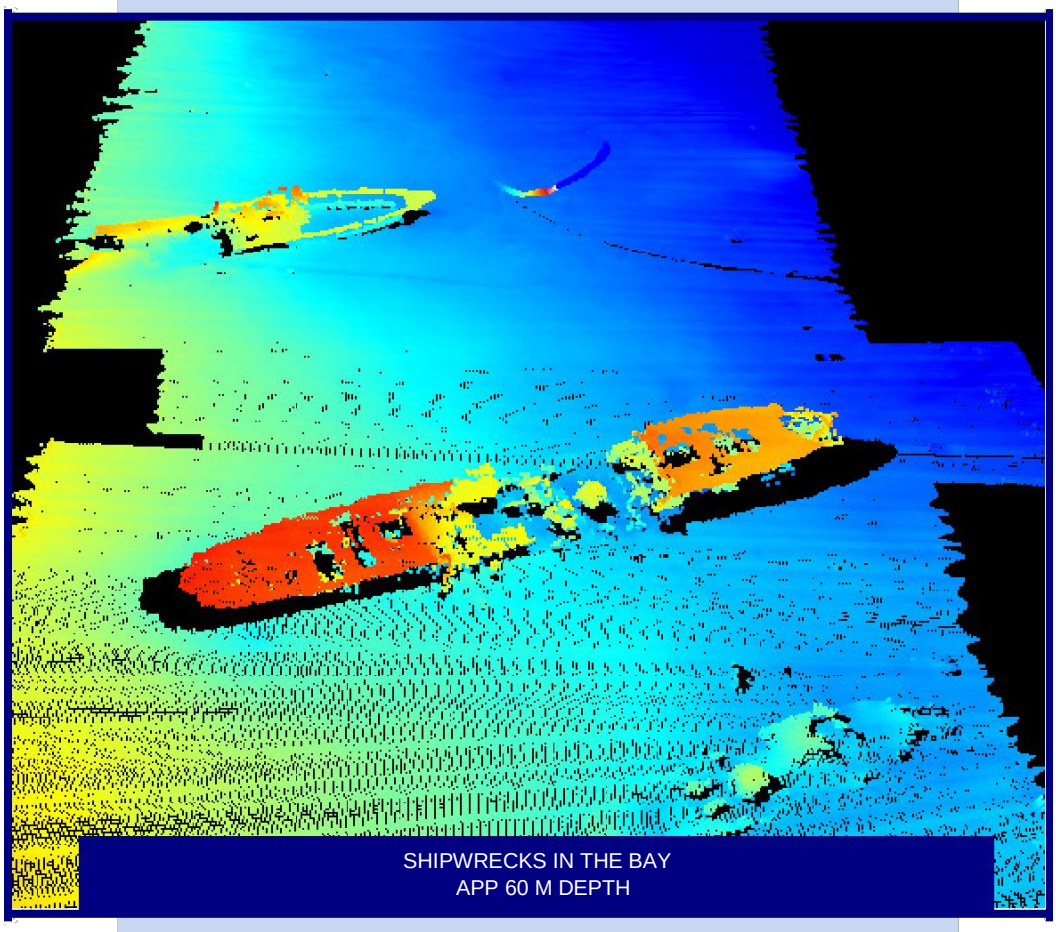




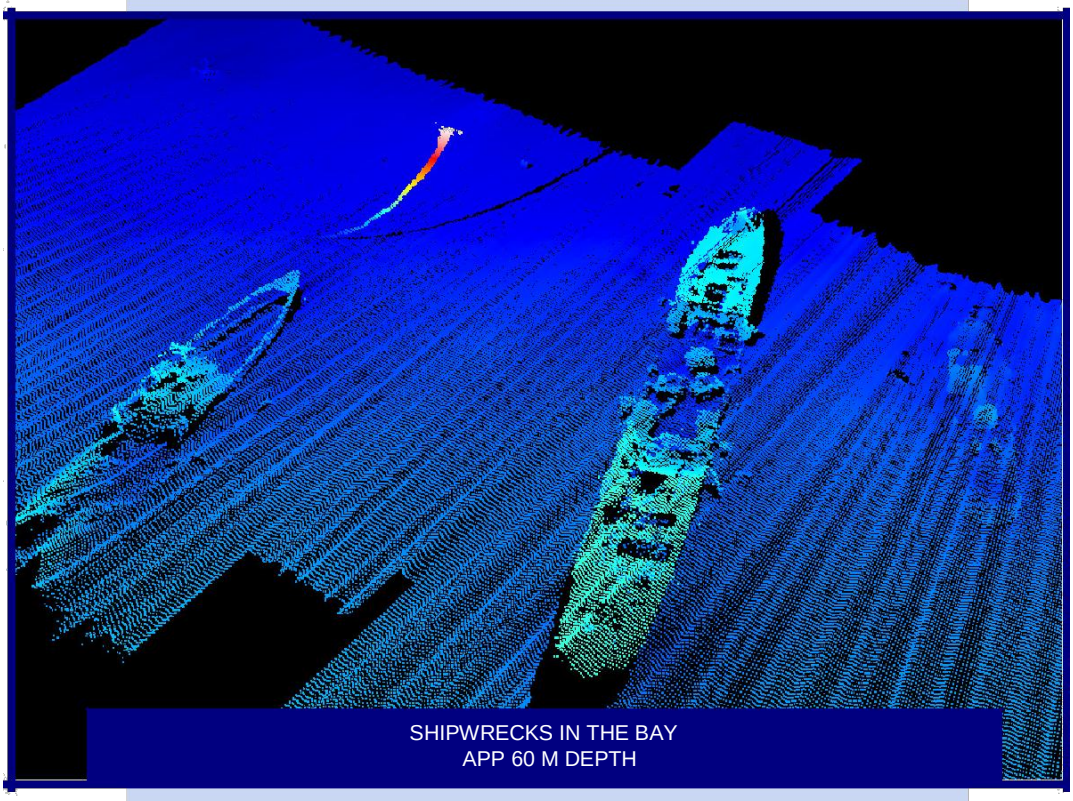
DIFFERENT IMAGES OF BERTH 3-4 OF THE PORT, AND THIS IS NOTING THAT THEY ARE NOT COMPENSATED YET BY OVEMENT!



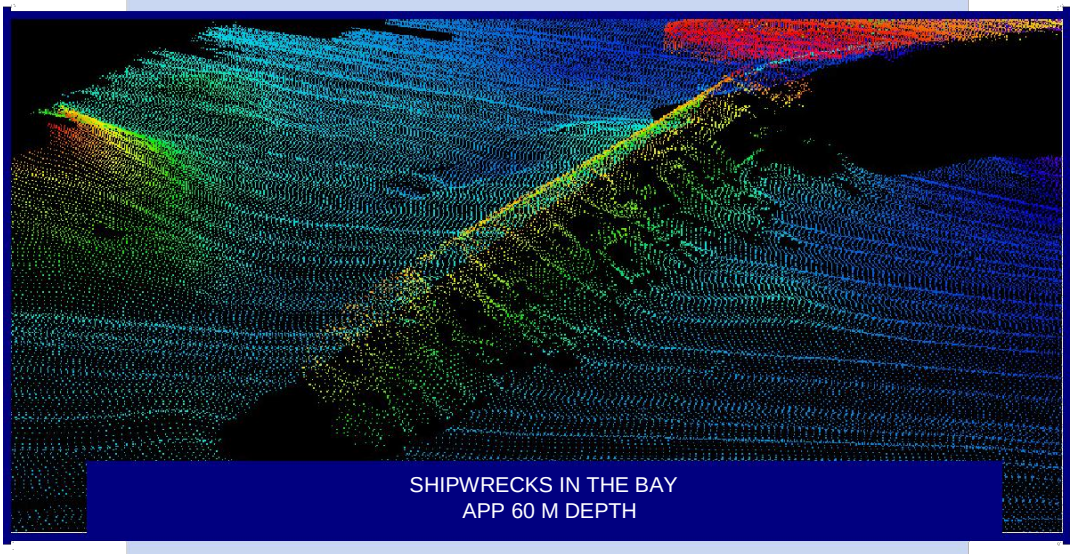
SHIPWRECKS IN THE BAY
APP 60 M DEPTH



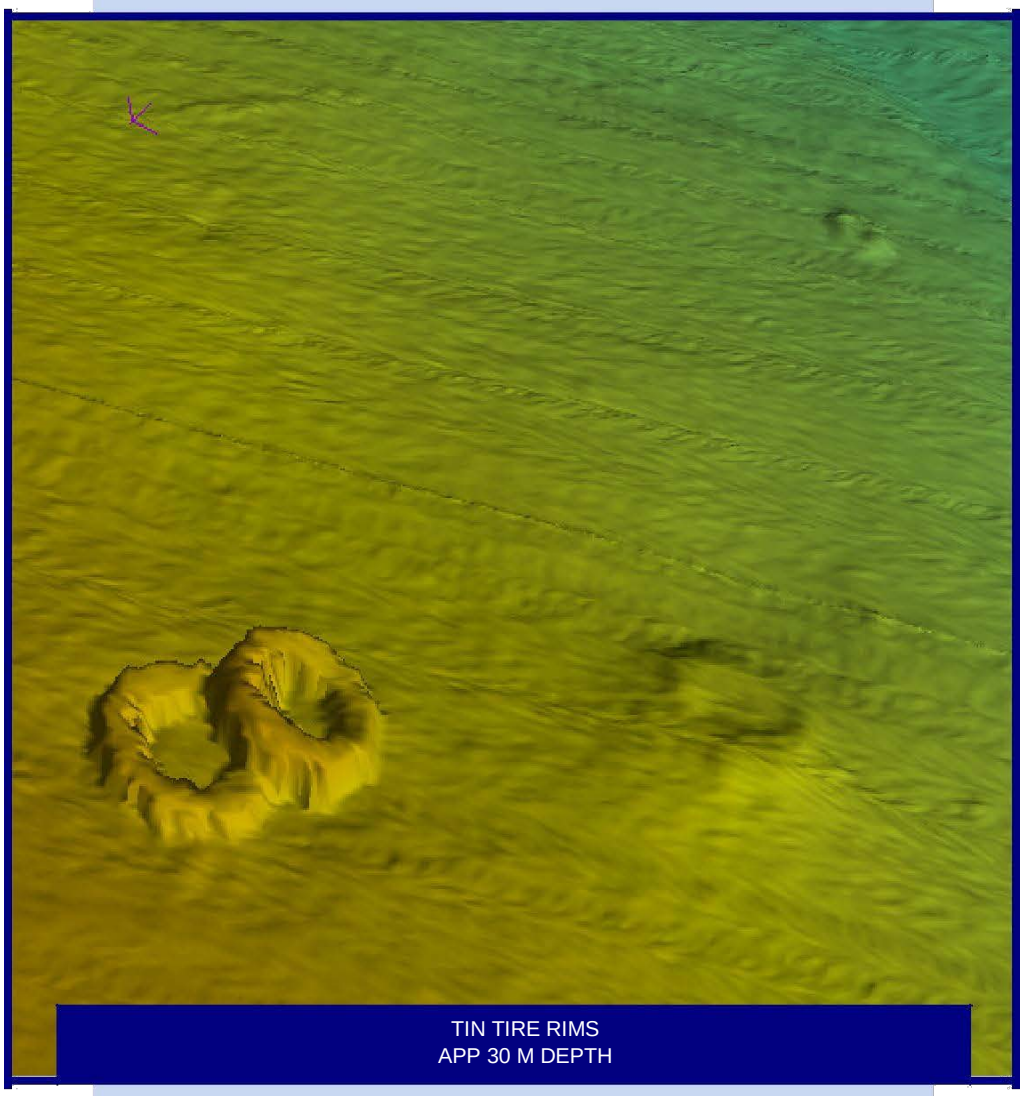
SHIPWRECKS IN THE BAY
APP 60 M DEPTH



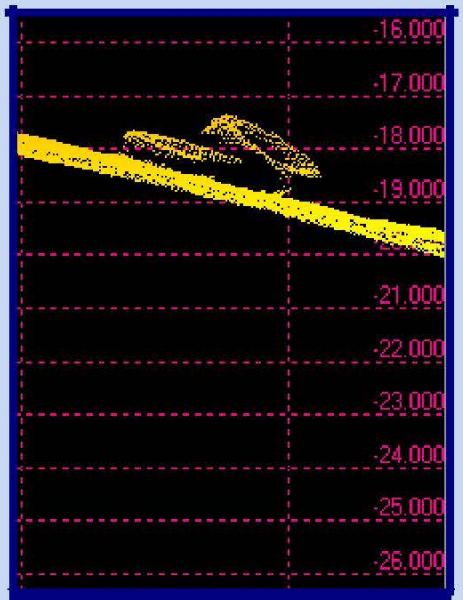
SHIPWRECKS IN THE BAY
APP 60 M DEPTH



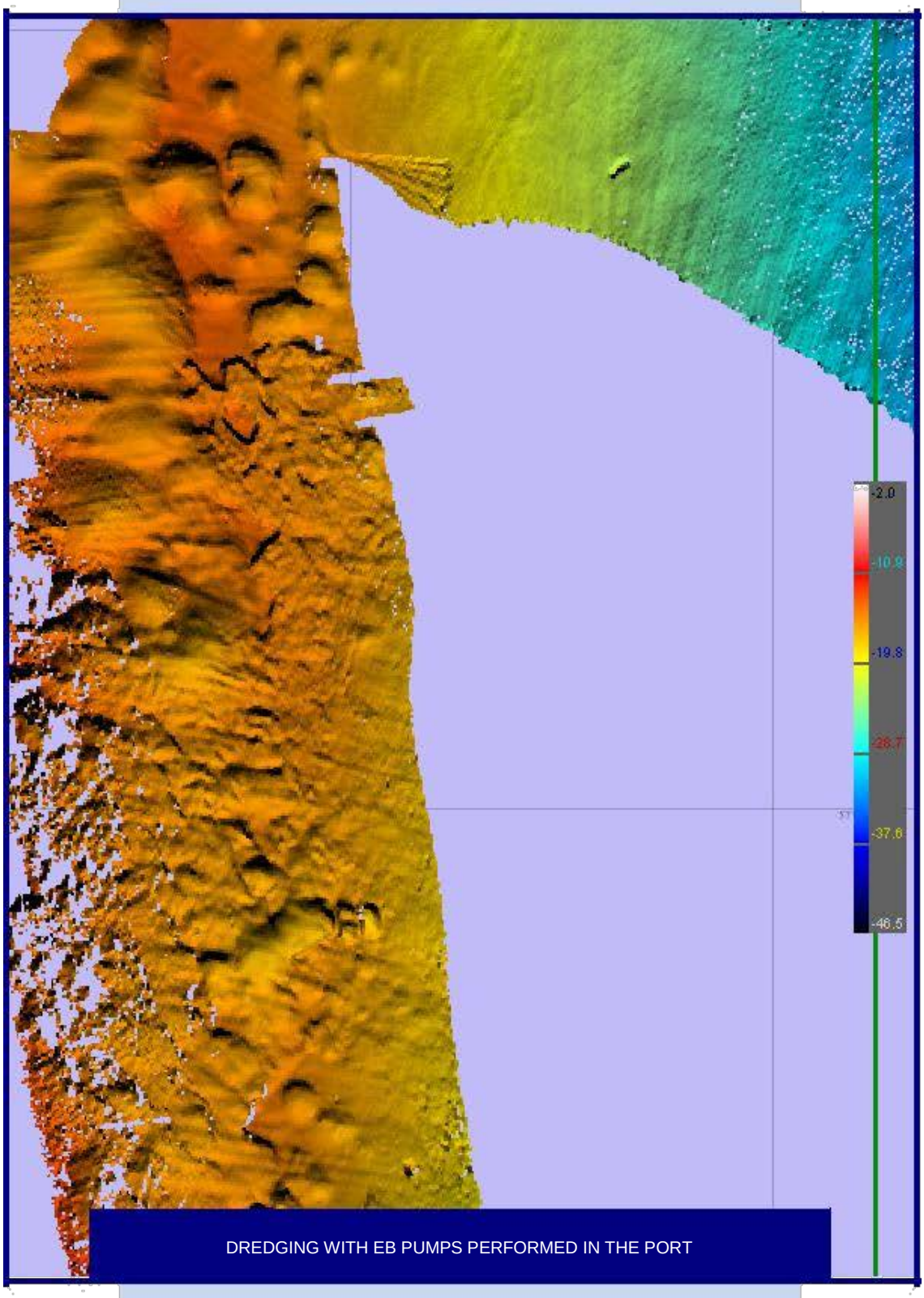
SHIPWRECKS IN THE BAY
APP 60 M DEPTH



TIN TIRE RIMS
APP 30 M DEPTH



ELEVATION OF THE SAME
TIRES. THE PINTS ARE THOSECT.



DREDGING WITH EB PUMPS PERFORMED IN THE PORT