

Project MYWREMS (MalaYsian WREckManagement System)

**6th Cooperative Forum
Project 1: Wreck Removal
7th – 8th October 2013
Bali, Indonesia**

By: Marine Department Malaysia





Presentation Outline

- **MYWREMS Project Background**
- **System Overview**
- **Current Status**
- **Update on Salvage in Straits of Malacca (SOM)**
 - **MV California**
 - **MV B Oceania**
- **7 Critical Wrecks in SOM**





MYWREMS Project Background

- Under the Cooperative Mechanism (Project 1: Wreck Removal) MYWREMS Project had commenced early this year with the contribution from Germany, amount of USD88,193 through IMO Malacca and Singapore Straits Trust Fund.
- The project was undertaken by Federal Maritime and Hydrographic Agency (BSH) from Germany to develop data base software, provide necessary hardware and training for wreck management and monitoring in the Strait of Malacca for the government of Malaysia. This system emulates the same model as what Germany has in place in their waters now.





MYWREMS Project Background

...continued

- This project had started early this year with the consultation between BSH & Marine Department Malaysia (MDM). Up to this point, MDM has been feeding BSH with wrecks information and other necessary data particularly in the Strait of Malacca.
- The actual work started on June 2013 and the project development will last for the duration of 6 months and expected to complete and hand over to Malaysia by end of 2013. However, due to some delays, this project is expected to complete by March 2014.





System Overview

- MYWREMS system is based on Germany's **GUWIS** i.e. **German Under Water** obstacle **I**nformation **S**ystem
- GUWIS is none public Database, which contains all known underwater obstacle, wrecks, rocks and other obstruction. Also pipes and cables are also recorded in this database.
- MYWREMS will include program 'ORCA Master' which can get accessed to British Admiralty Nautical Charts





System Overview

... continued

- This system will be developed in Germany and delivered as turnkey system
- Including 2 weeks training program for two officers in Hamburg and Rostock, Germany (cost will be included in the package)
- After the training the system will be air freighted to Marine Dept. Malaysia






Current Status

- Due to the delay in payment process to BSH, the cost amounted to Euro 85,400, BSH had stopped the development of the project temporarily until the sum is paid accordingly.
- Due to this work stoppage, the project will be delayed for period of 3 months and the cost of the project therefore will be much higher.
- At this point in time, MDM is still waiting for the amount of the augmented cost by which it will be overviewed accordingly by BSH after they receive the payment.

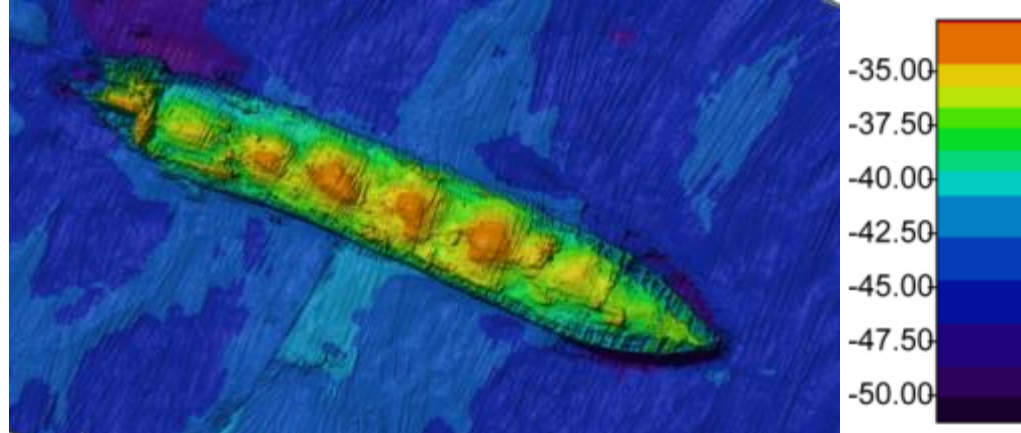




Update on Salvage in Straits of Malacca (SOM)

- In 2013, two wrecks removal operation was carried out in the Straits of Malacca:
 - 1. MV California
 - 2. MV B Oceania

MV California



Name	Location	Status	Cargo	Year	Method of Survey
MV CALIFORNIA Ship Particulars Type – Bulk Carrier LOA – 242.02 m GRT – 40182 Tons Flag - Panama Incident – Collision & Sinking	EAST BOUND TSS OFF PULAU UNLAN 01° 57.79' N 102° 10.54' E	Partial removal completed in December 2012	Iron Ore	2006	This wreck was cut partially to maintain water depth at 32m CD a for safe under keel clearance

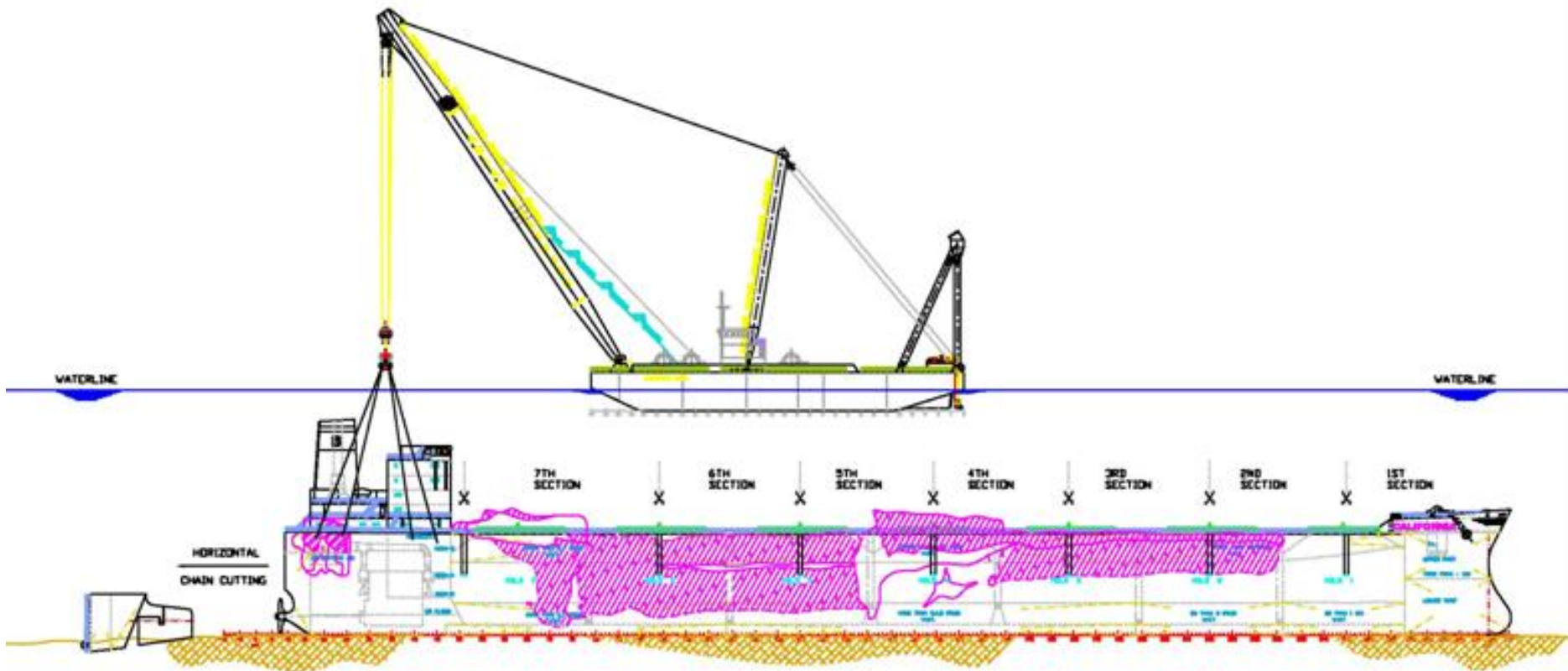
MV California

MAL 521

MV CALIFORNIA WRECK



MV California



MV California



- Partial removal of the wreck MV California

MV California

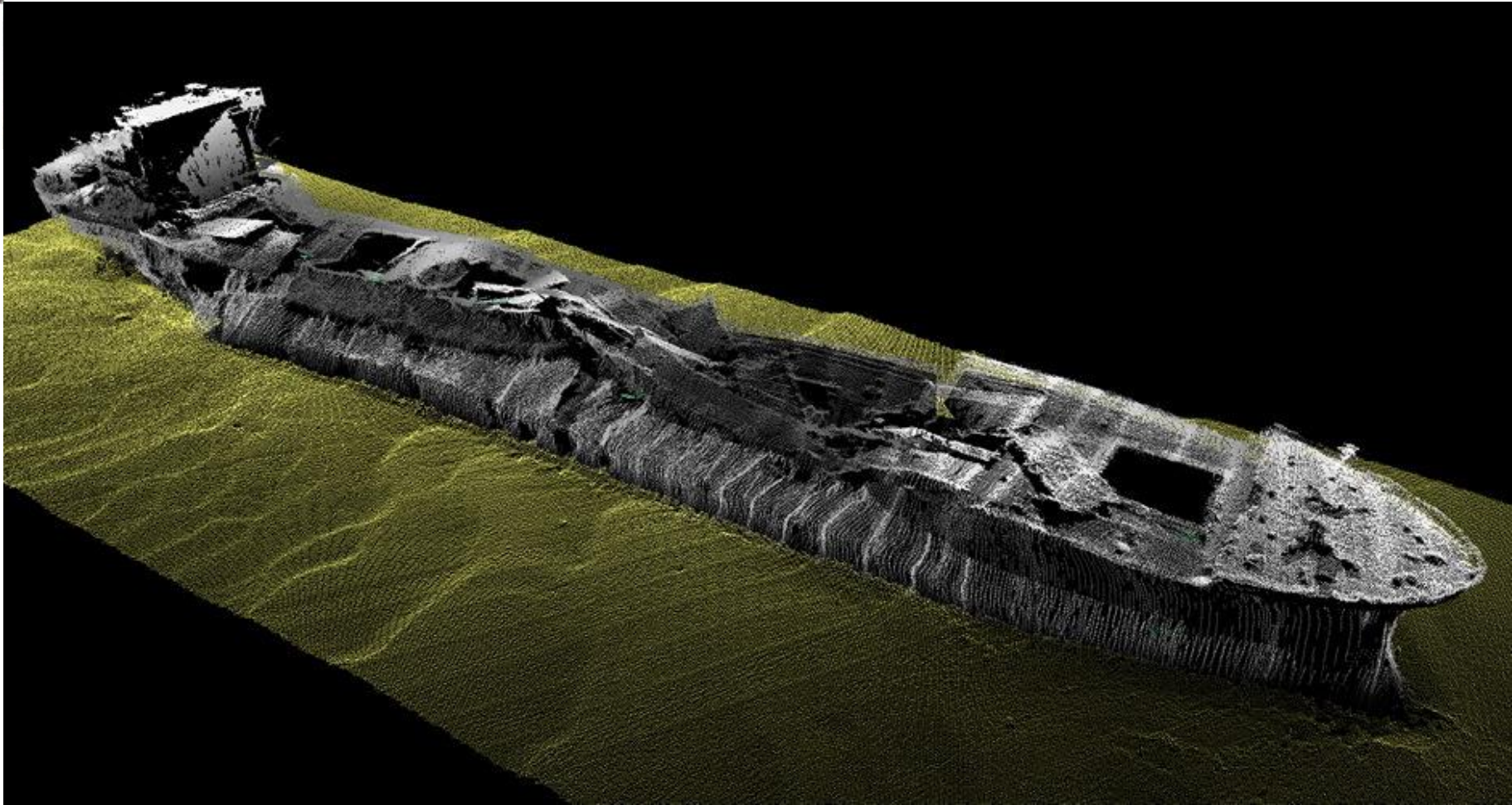


Image of wreck MV California

MV B Oceania



Name	Location	Status	Cargo	Year	Method of Survey
MV B OCEANIA Ship Particulars Type – Bulk Carrier LOA – 230 m GRT – 38337 Tons Flag – Malta Incident – Collision & Sinking	EAST BOUND TSS 8 NM OF PULAU PISANG 01° 24.895' N 103° 07.736' E	Salvage Operation Completed in July 2013 (Total Removal)	Iron Ore	2011	Multi Beam

- Total removal of wreck
- Post salvage hydrographic survey using multi beam echo sounder
- Full seafloor coverage was achieved and enabled charting of the general water depth of the survey.

MV B Oceania

MAL 521

MV B OCEANIA WRECK



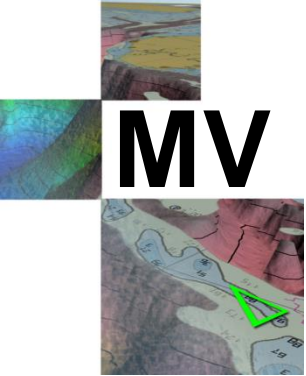


MV B Oceania

- Lifting of upper bow section onto barge



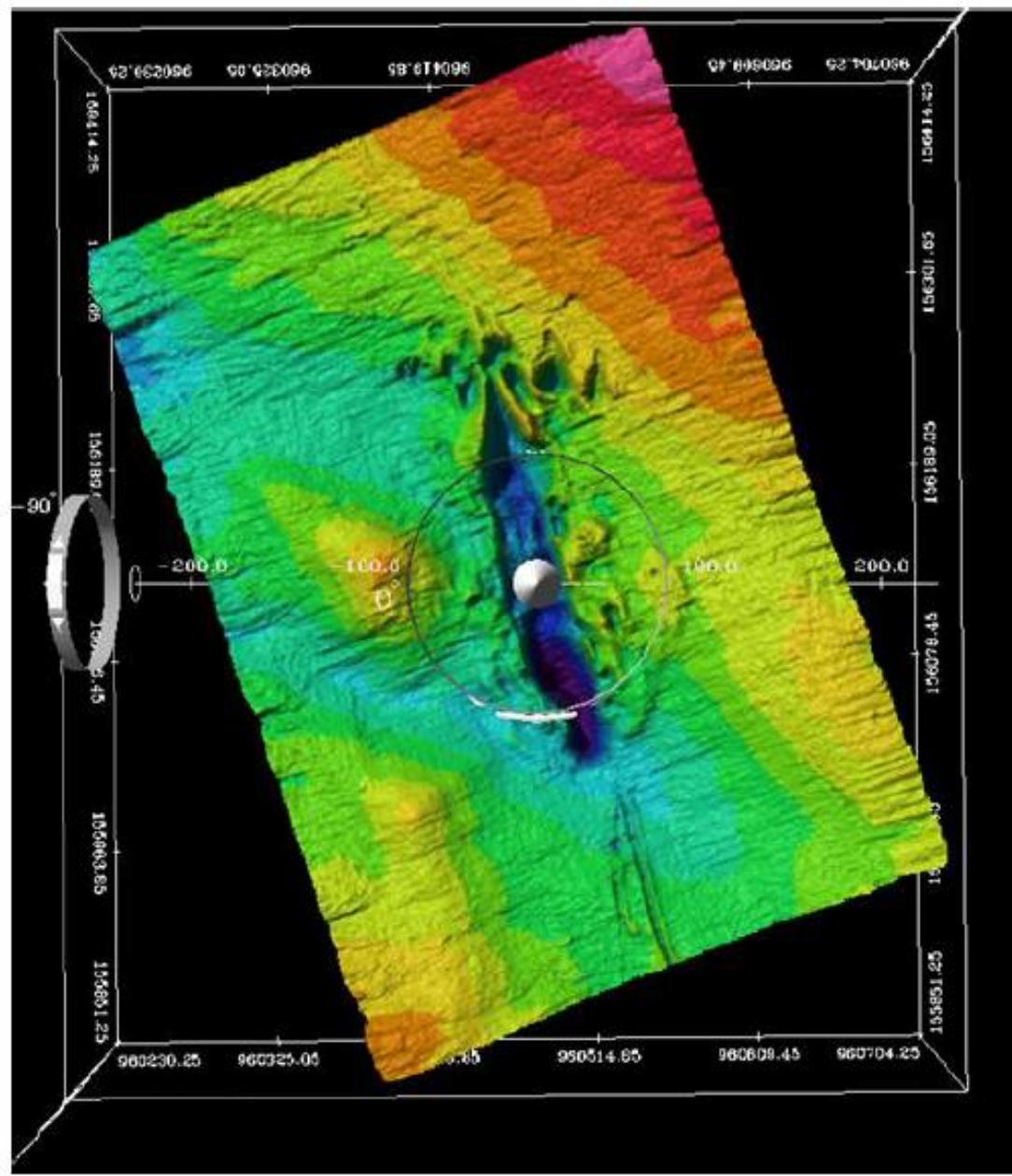
MV B Oceania



- Lifting of top side tank & side shell plating

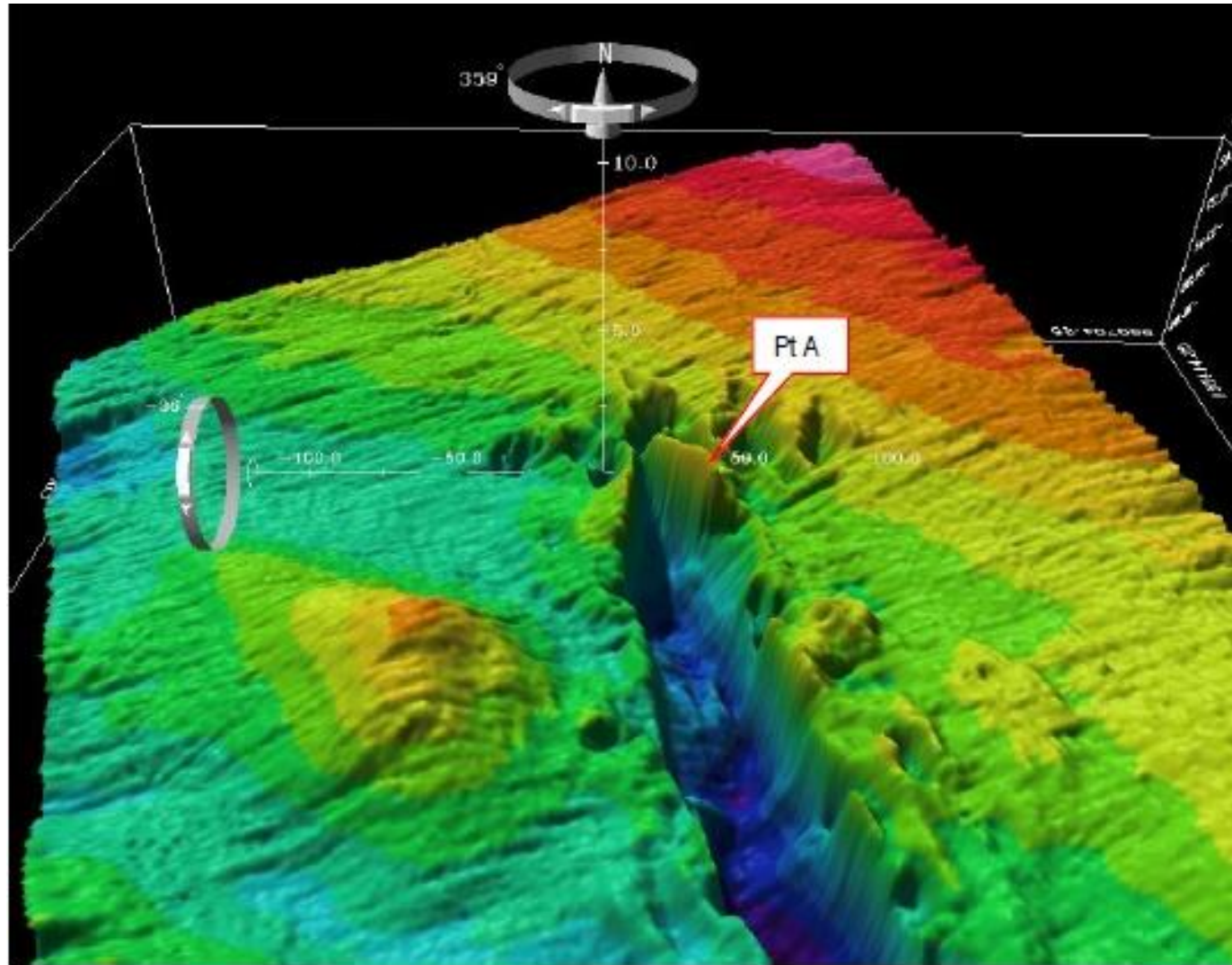
MV B Oceania

Plan View of Bathy Result



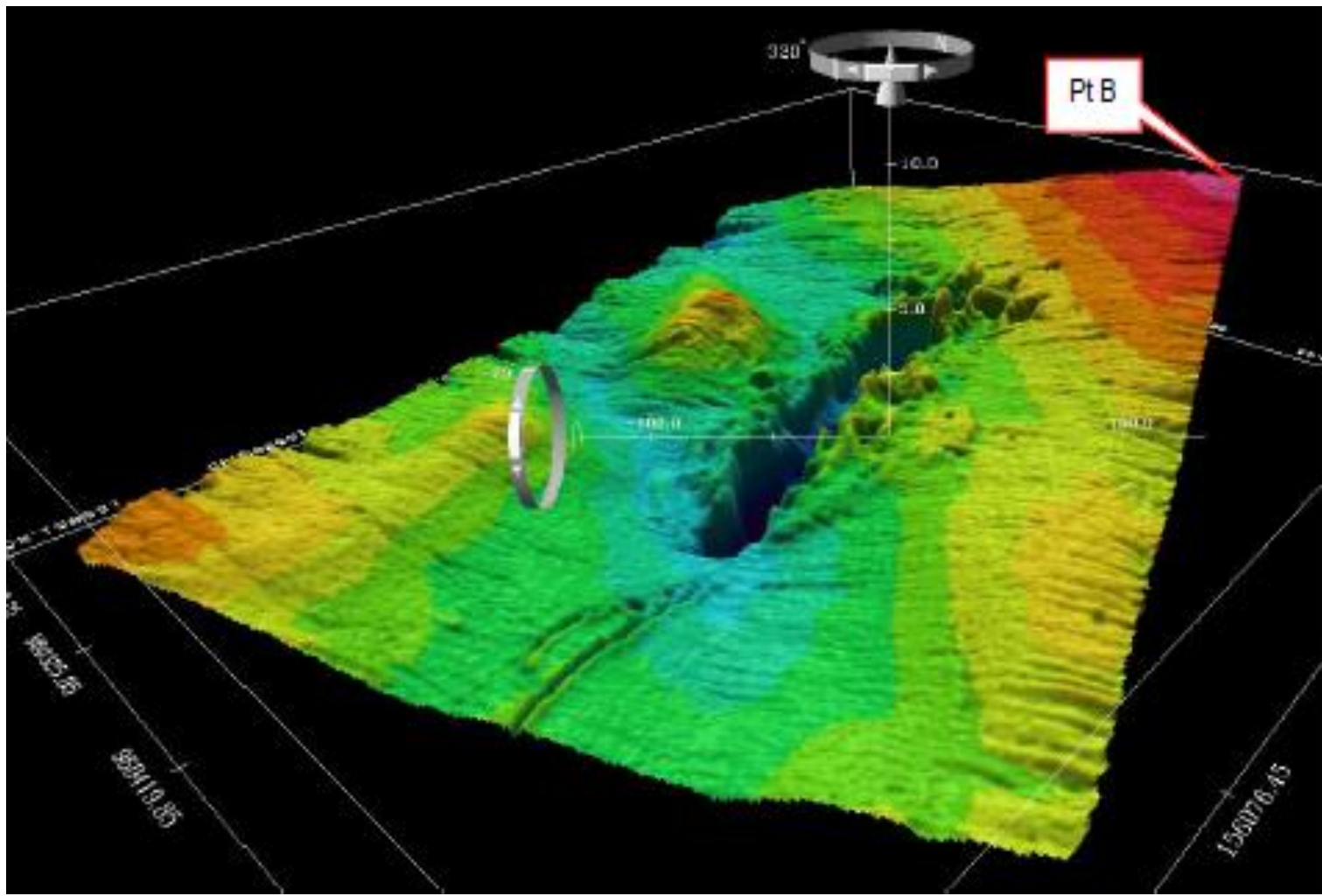
MV B Oceania

Perspective view



MV B Oceania

Perspective view



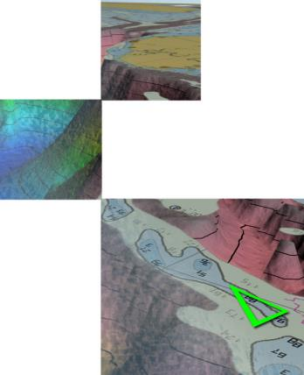
7 Critical Wrecks in SOM

No	Name	Location	Status	Cargo	Year	Method of Survey
1	MV AKTIS ISLAND Ship Particulars Type – General Cargo LOA – 72.45 m GRT – 1510 Tons Flag - Denmark Incident – Grounding & Sinking	0.66 NM WEST OF ONE FATHOM BANK LIGHT HOUSE 02° 53.14' N 100° 59.00' E	Wreckage Still On Location And Charted As Wreck	Copra Coconut	1994	-
2	MV ROYAL PACIFIC Ship Particulars Type – Passenger Ship LOA – 135 m GRT – 13176 Tons Build - 1965 Flag – Bahamas Incident – Collision & Sinking	15.4 NM WEST OF TANJUNG TUAN 02° 27.206' N 101° 36.149' E	Wreckage Still On Location And Marked By Isolated Danger Mark Fl(2) 10sec	NA	1992	Multi Beam & Single Beam Latest date of survey: 25 June 2012
3	MV ICL VICRAMAN Ship Particulars Type – Bulk Carrier LOA – 198 m GRT – 31374 Tons Build – 1979 Flag - India Incident – Collision & Sinking	5.5 NM SOUTHERN OF TANJUNG TUAN 02° 18.495' N 101° 51.160' E	Underwater Cutting Till 23m ACD and Charted	Steel Product	1997	Multi Beam & Single Beam Latest date of survey: 23 June 2012



7 Critical Wrecks in SOM

No	Name	Location	Status	Cargo	Year	Method of Survey
4	MT SINGAPURA TIMUR Ship Particulars Type – Bulk Carrier LOA – NA GRT – NA Flag - NA Incident – Collision & Sinking	8 NM OF SUNGAI UDANG, MELAKA. /5NM OF PULAU UNDAN 01° 58.171' N 102° 14.132' E	Reported Least Depth 30m Above The Wreck And Charted	Bitumen	2001	Multi Beam & Single Beam Latest date of survey: 21 June 2012
5	MV CALIFORNIA Ship Particulars Type – Bulk Carrier LOA – 242.02 m GRT – 40182 Tons Flag - Panama Incident – Collision & Sinking	EAST BOUND TSS OFF PULAU UNDAN 01° 57.79' N 102° 10.54' E	Partial removal completed in December 2012	Iron Ore	2006	This wreck was cut partially to maintain water depth at 32m CD a for safe under keel clearance
6	MV B OCEANIA Ship Particulars Type – Bulk Carrier LOA – 230 m GRT – 38337 Tons Flag – Malta Incident – Collision & Sinking	EAST BOUND TSS 8 NM OF PULAU PISANG 01° 24.895' N 103° 07.736' E	Salvage Operation Completed in July 2013 (Total Removal)	Iron Ore	2011	Multi Beam
7	MV SILVILAI	01° 54.00' N 104° 08.36' E	-	NA	1984	-



Thank you for your kind attention.