

# 5<sup>TH</sup> COOPERATION FORUM SINGAPORE

24 & 25 SEPTEMBER 2012

PROJECT 1

WRECK REMOVAL

# Wreck Monitoring

- ❑ 11 critical wrecks have been identified within the Traffic Separation Scheme (TSS) in the Straits
- ❑ Managing and reducing risks in the Straits must be top priority
- ❑ Best way to monitor the condition of the wrecks is thru multi-beam survey .
- ❑ This year Marine Department Malaysia had carried out Multi-beam survey on 3 critical wrecks in the TSS.

- i) Royal Pacific - Off Port Dickson
- ii) MV ICL Vikraman – Off Tanjung Tuan
- iii) MT Singapore Timur – Off Pulau Undan Malacca

Wreck monitoring to continue in 2013 on other wrecks in the TSS

Estimated cost for multi-beam surveys this year is about  
US\$50,000 .

# SALVAGE OPERATION

## Vessel M.V California Off Port Dickson

- Completed end of August 2012 – Vessel had been cut to achieve the depth of 32m

## Vessel M.V B Ocenia

- Salvage operation on going and will be completed by December 2012 – Total removal

## MV California



MV California





MV California



MV California





MV B Ocenia





MV B Ocenia



MV B Ocenia



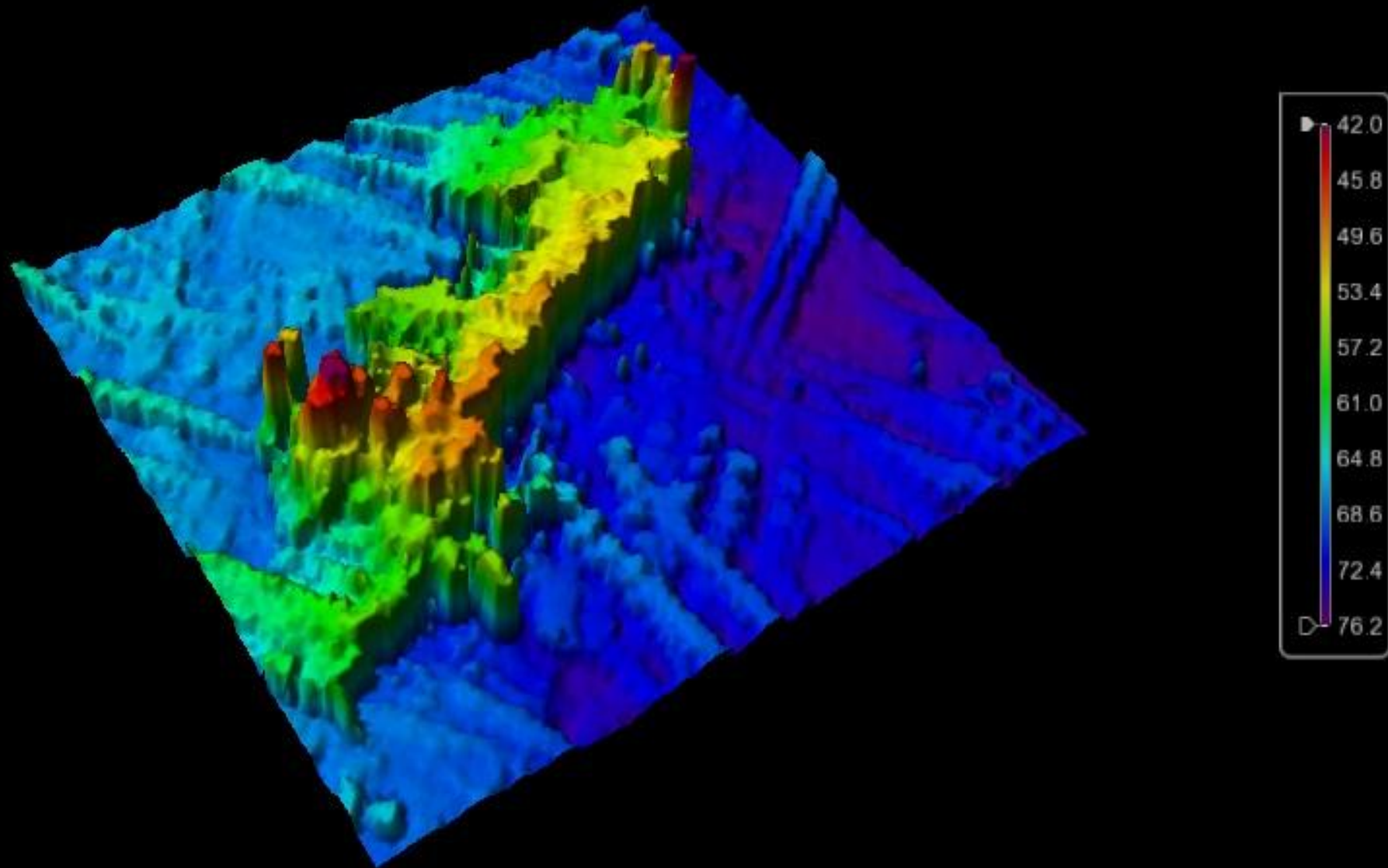


MV B Ocenia

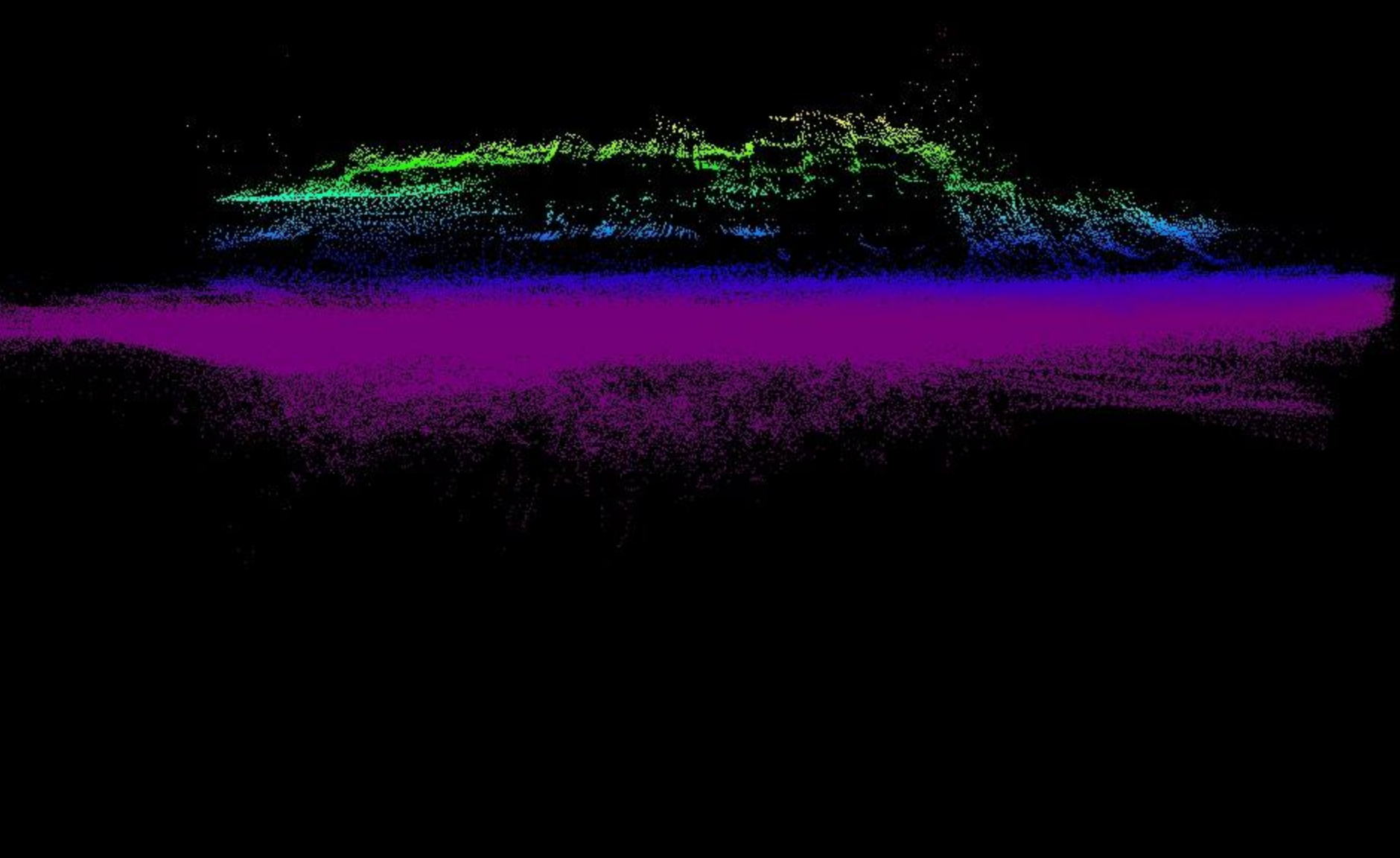
# Pilot project using MBES (Kongberg Simrad E3000)

- MV Royal Pacific – Port Dickson
- MV ICL Vikraman – Port Dickson
- MT Singapura Timur - Malacca

# M.V ROYAL PACIFIC



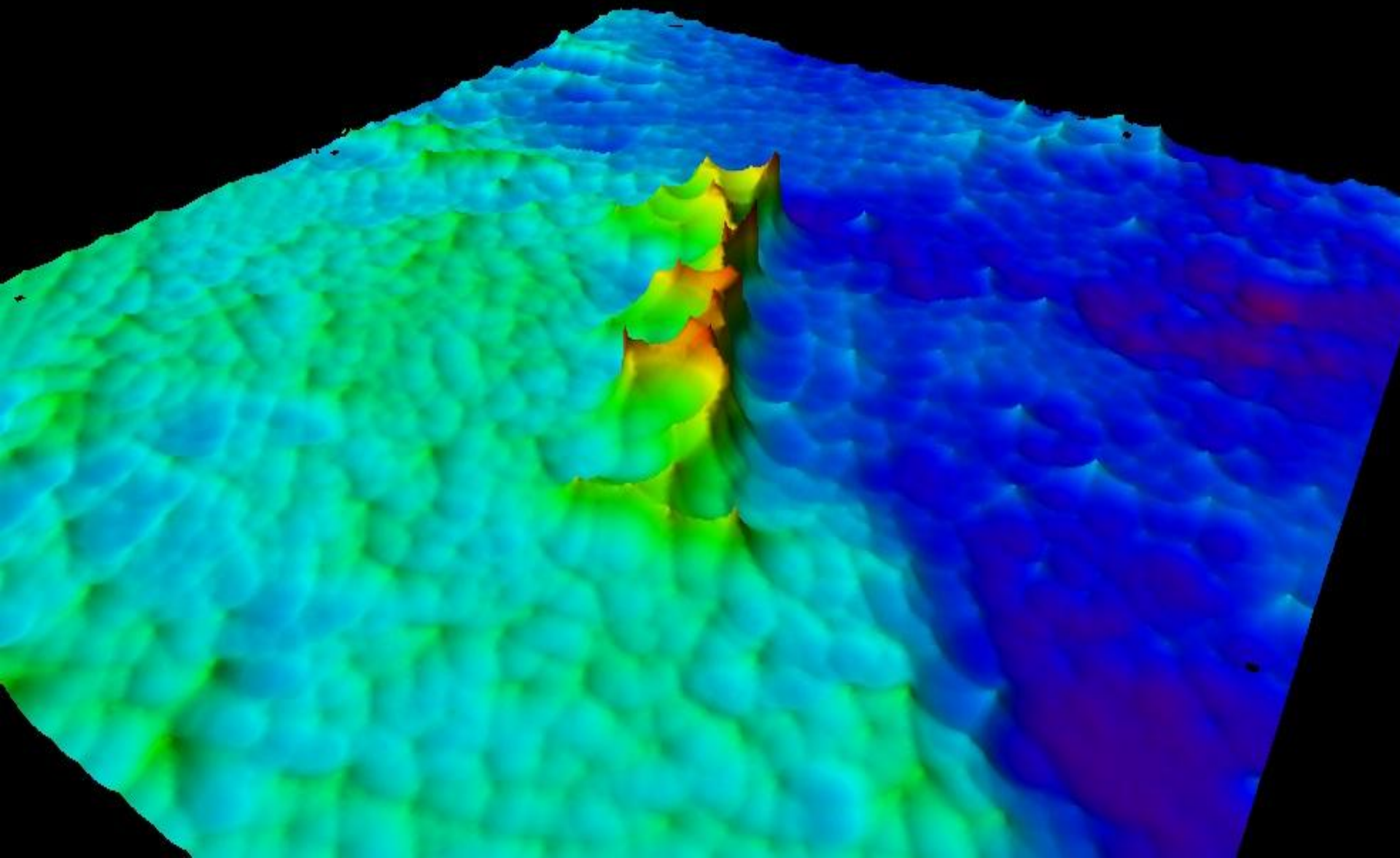
## M.V Royal Pacific



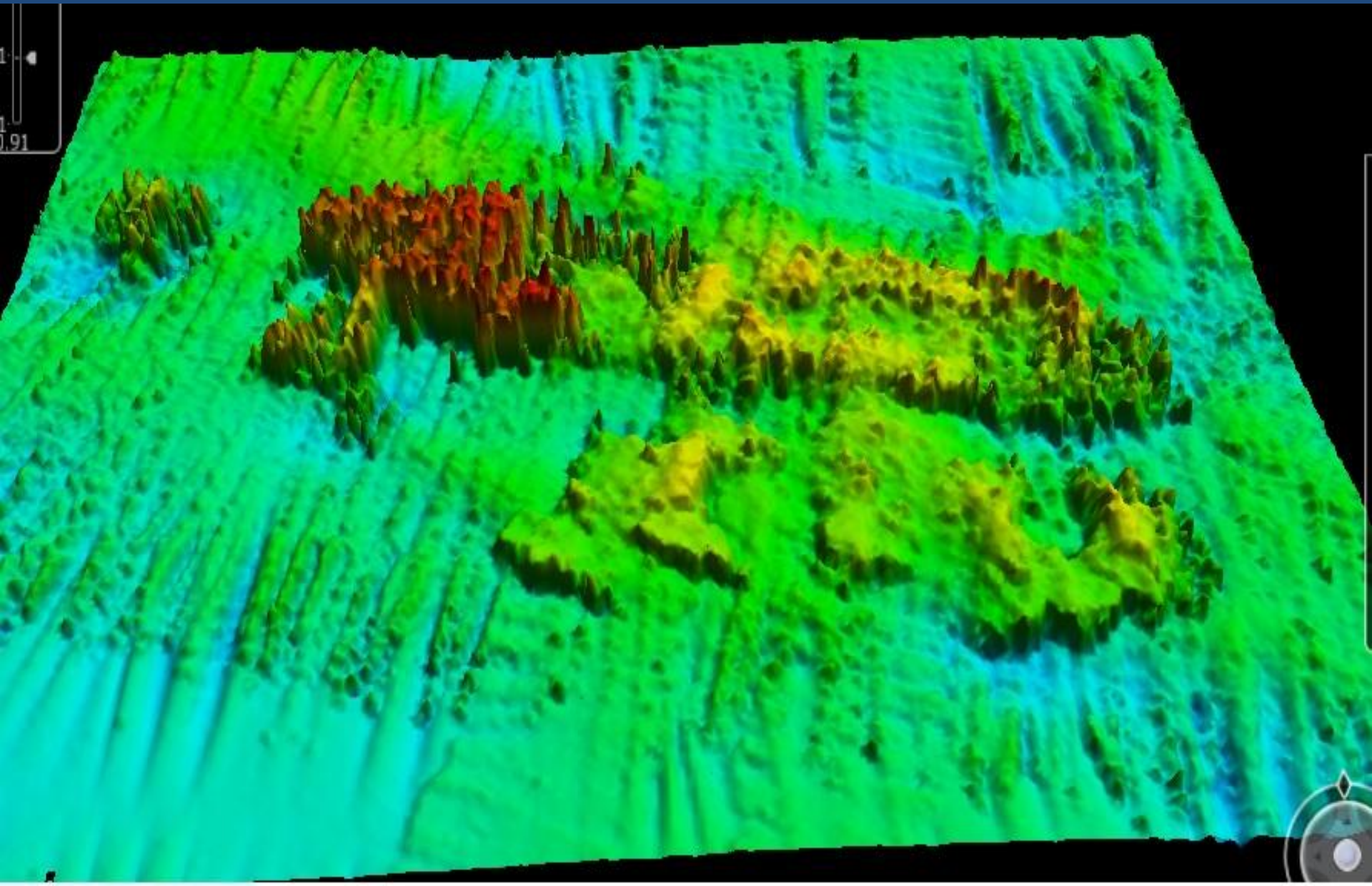




M.V Royal Pacific



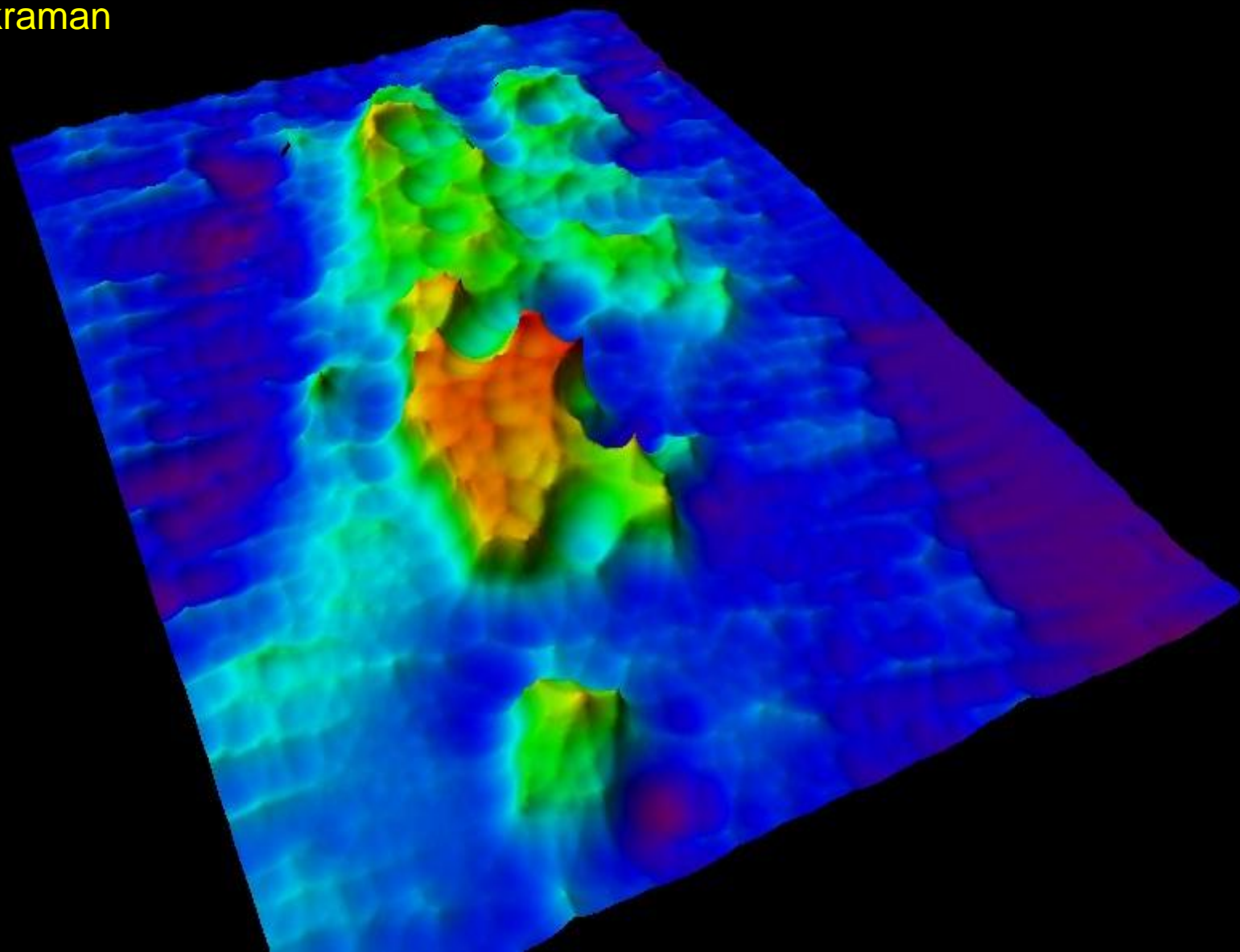
# M.V ICL VIKRAMAN



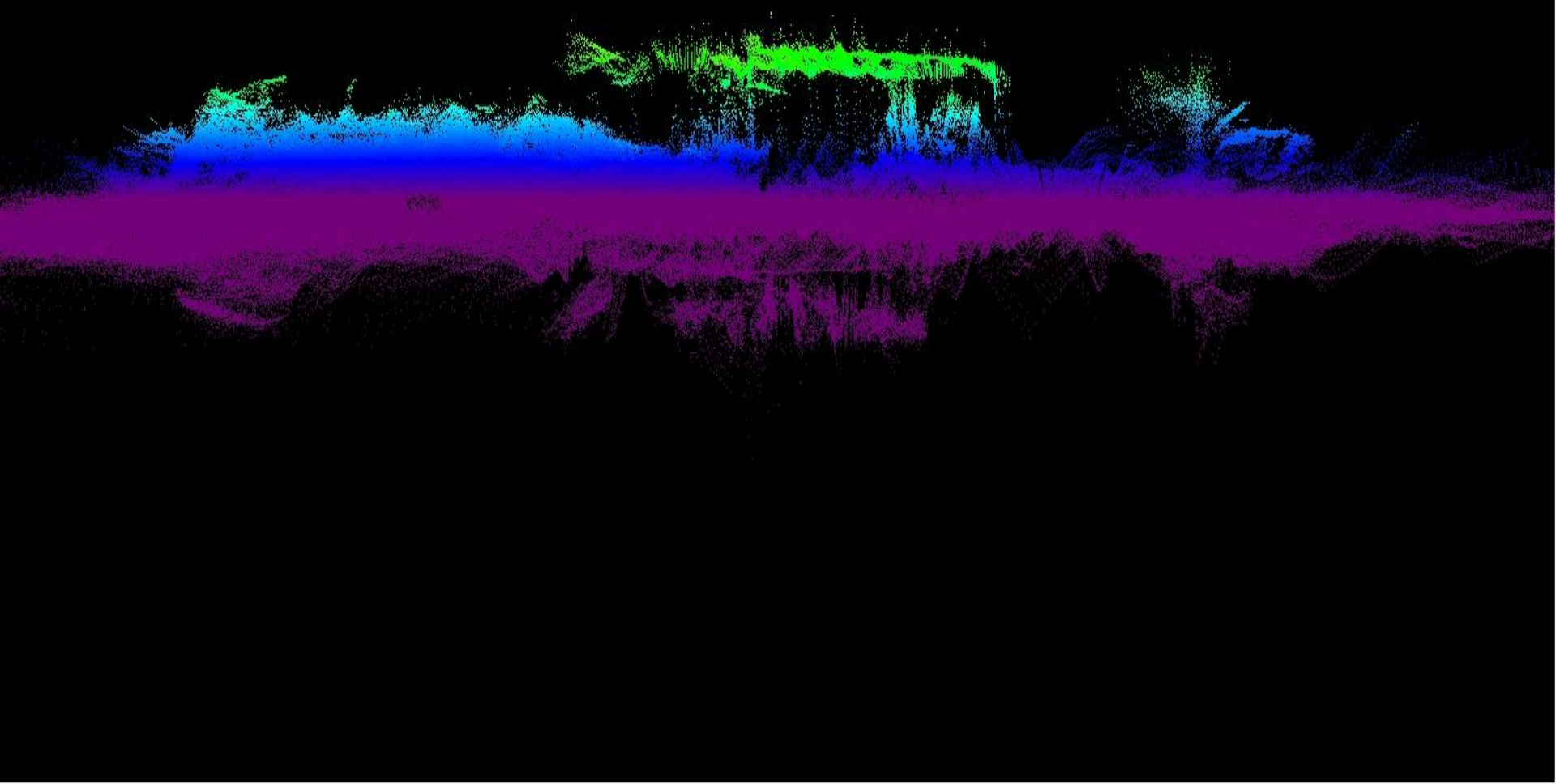




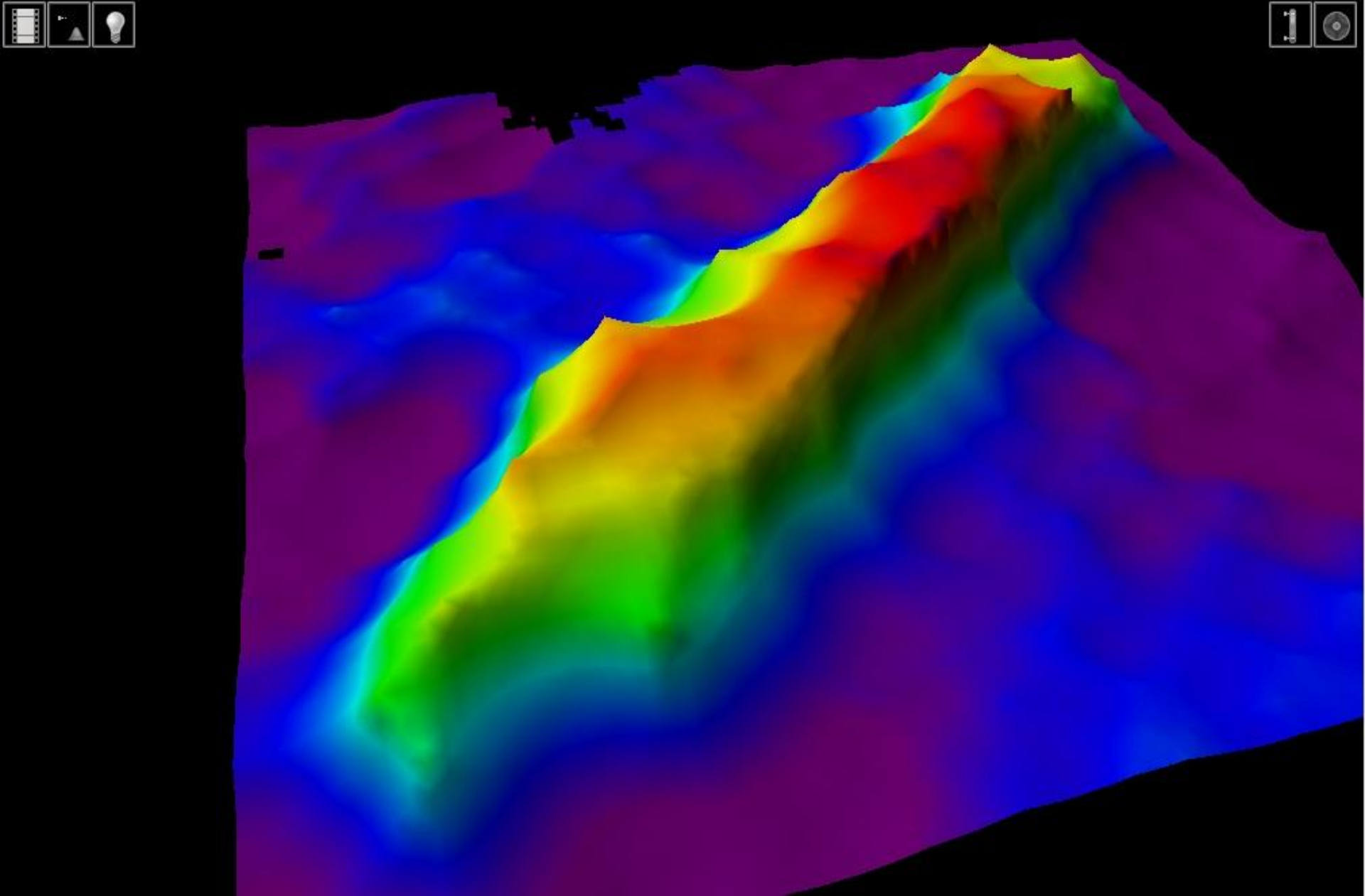
MV ICL Vikraman



MV ICL Vikraman

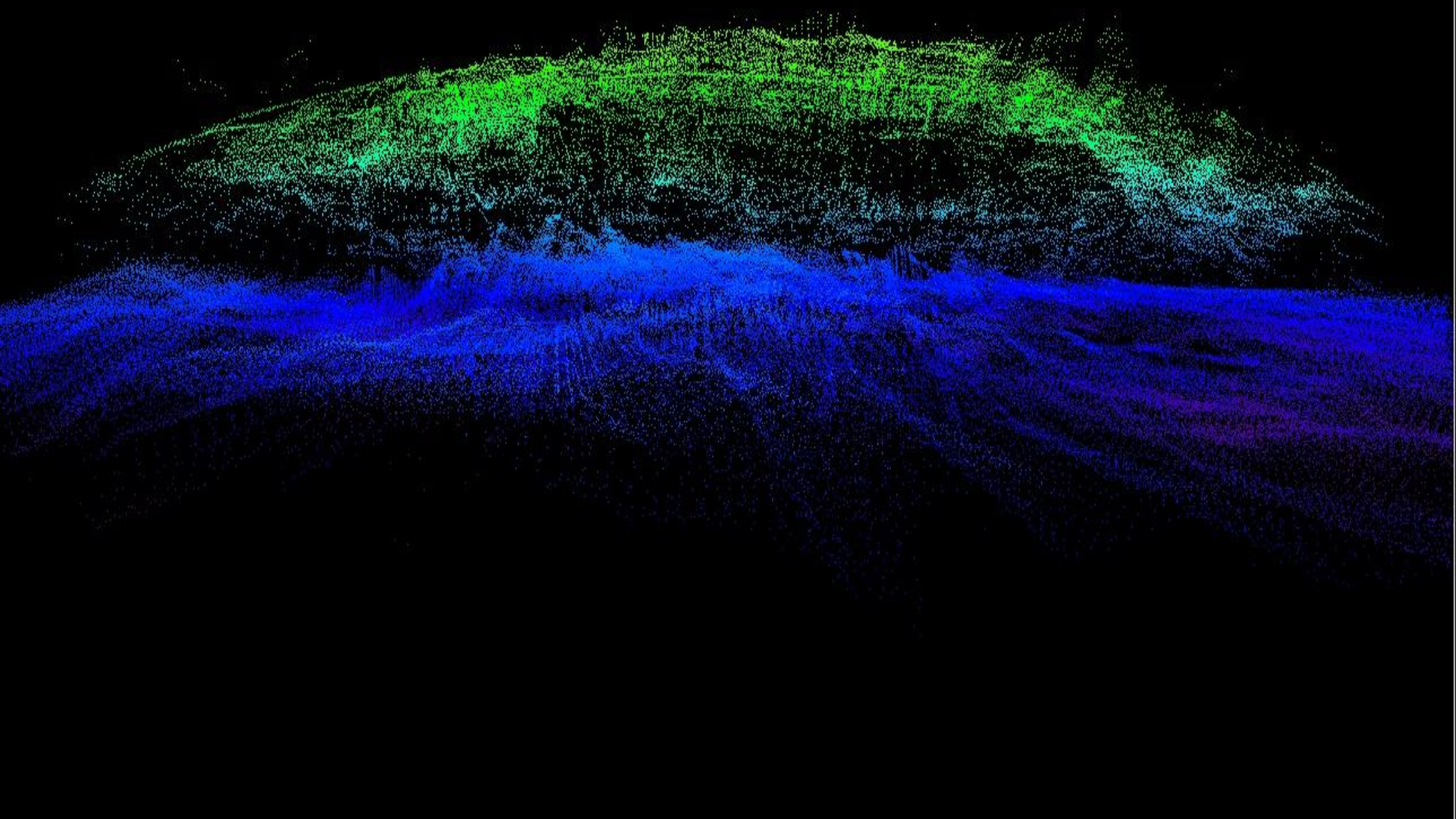


# MT SINGAPURA TIMUR

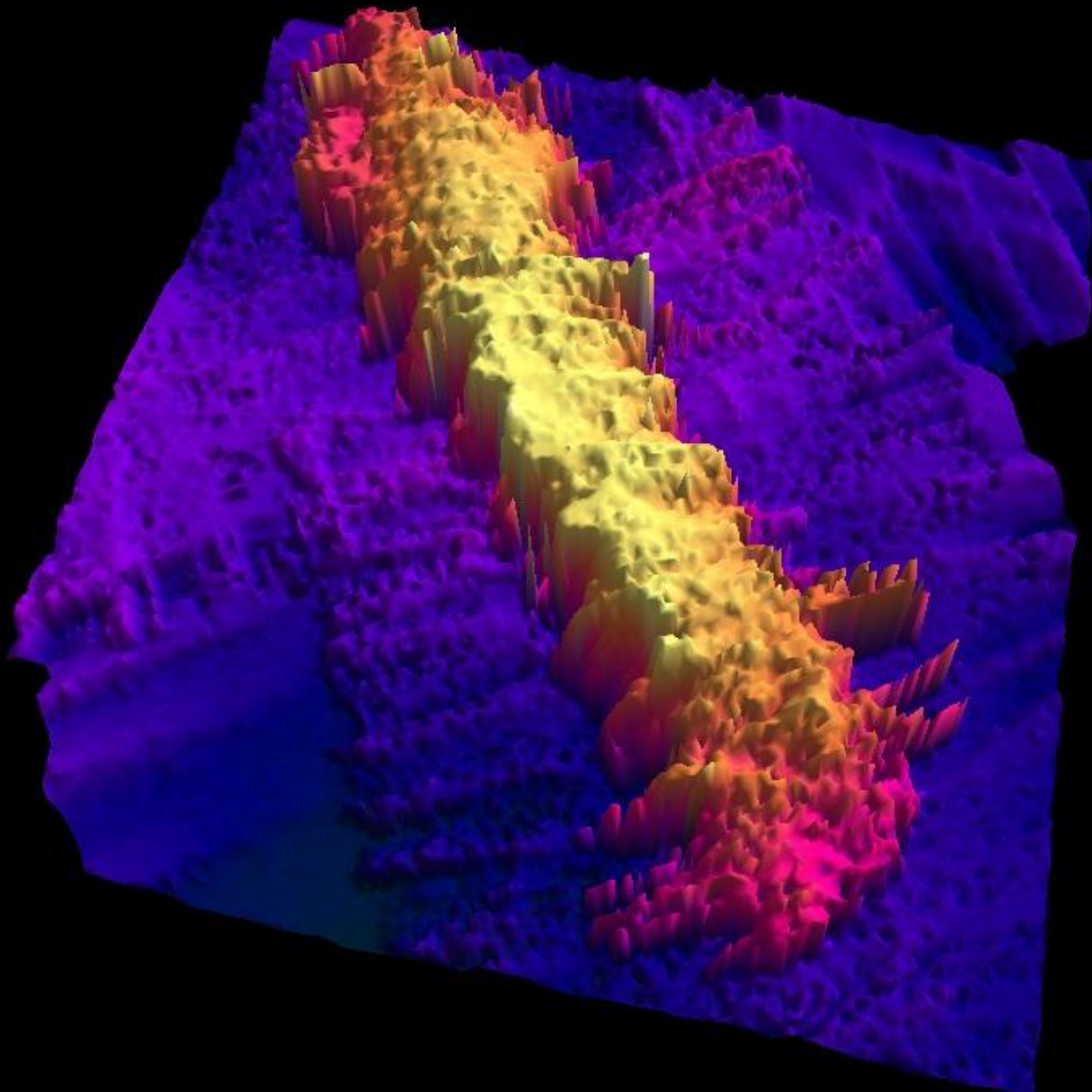




## MT Singapura Timur



## MT Singapura Timur



## Pilot Project

### Wreck Management Information System, WMIS

1. To finalise details of the Project component and technical requirements of the system under Phase 1 to be sponsored by Germany
2. Determine the data and other information required for the development of the pilot project
3. Determine technical specifications and system requirements for implementation including software and hardware requirements
4. Development of WMIS by experts from Germany



5. Procurement of equipment (if necessary)
6. Delivery, installation and commissioning of WMIS at Marine Department Malaysia
7. Training of personnel

# HAMBURG MEETING

- Held in Bundesamt FÜR SeesSchiffahrt Und hydrographie (BSH) Head Office, Hamburg, Germany on 2<sup>nd</sup> December 2011.
- 2 Officers from Marine Department Malaysia and 1 from Ministry of Transport attended the meeting.
- Expences to attend the meeting was sponsored by IMO.
- BSH introduced German Under Water Obstacle Information System (GUWIS)

# MEETING RESOLUTION

- Same GUWIS will be implemented in Malaysia.
- BSH Germany will provide advice on the software and hardware requirements.
- BSH Germany will provide advice on ways to improve the wreck search and investigation capabilities in order to have better data set for the system.
- Cost estimate for hardware and software will be discuss further at this Forum with Germany.

*Thank You*