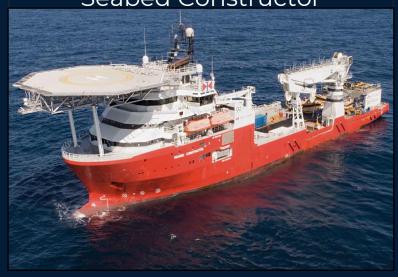


OCEAN INFINITY

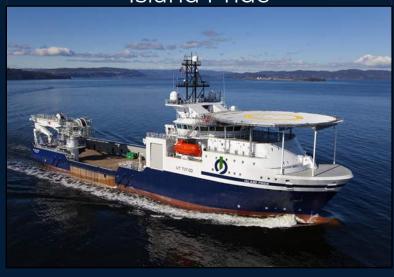


3 vessels - each with 5 AUVs, 2 ROVs, 3 USVs

Seabed Constructor



Island Pride



Normand Frontier



Autonomous Underwater Vehicle (AUV)



Remotely Operated Vehicle (ROV)



Unmanned Surface Vehicle (USV)



15 AUVs - 6000m depth

- HiSAS 1032, Kraken MINSAS 120
- Edgetech Side Scan Sonar
- EM2040 Multi-Beam Echosounder
- Edgetech Sub-bottom profiler
- Cathx Color Camera
- Conductivity/temperature/Depth (SAIV)
- Self Compensating OFG Magnetometer
- FLNTU Turbidity / Visibility Sensor

Length = 6.2m
Diameter = 0.875m
Weight = 1,850kg
Speed = 2-6kts
Mission duration = 60-100hr



AUV Hangar – 8 AUVs





STELLLAR DAISY

Stellar Daisy

- Originally Sunrise III, very large crude carrier (VLCC) – single hull
- 2006-2008 converted to very large ore carrier (VLOC) as Stellar Daisy
- L = 322m, Beam = 58m, Depth = 29.5m









Background information

- Sank on March 31, 2017 ~1423UTC
- South Atlantic 1800nm off the coast of Uruguay
- Carrying 260,003MT Iron Ore fines (~12.5mm) from Brazil to China
- 24 Crew, 16 Filipinos, 8 south Koreans
 - 2 Filipinos rescued in ~24hrs
- Uruguayan Navy ship found floating debris during 17-day search
- Search continued with six merchant ships no other survivors found
- Ocean Infinity contacted in late 2018 search operations began in mid Feb.



Stellar Daisy shipwreck found on first AUV Dive



Marshall Island Administrator Report Findings

....determined that the likely direct cause of STELLAR DAISY foundering was a rapid list to port following a catastrophic structural failure of the ship's hull that resulted in a loss of buoyancy and uncontrolled flooding. The structural failure and flooding are thought to have begun in the No. 2 port water ballast tank (WBT) and then progressed rapidly to include structural failure and flooding in multiple WBTs, voids, and cargo holds. The structural damage was likely due to a combination of factors, including the strength of the ship's structure being compromised over time due to material fatigue, corrosion, unidentified structural defects, multi-port loading, and the forces imposed on the hull as a result of the weather conditions STELLAR DAISY encountered between 29–31 March 2017.

...also concluded that liquefaction of the cargo likely did not contribute to the sinking...





Thank you

