

Mission to explore world's ocean depths

The Five Deeps Expedition is the first ever attempt to send a manned submersible craft to visit the deepest points of all the Earth's oceans

DSSV "PRESSURE DROP": Mothership carries multi-beam sonar to map seabed prior to dive

Crew: 16-18

Submersible: Launched and recovered via stern-mounted A-frame

Landers

Three robot vehicles aid submersible operations

1 Puerto Rico Trench

Atlantic Ocean, 8,408m

2 South Sandwich Trench

Southern Ocean, 8,183m

3 Java Trench

Indian Ocean, 7,290m

4 Challenger Deep

Pacific Ocean, 10,925m

5 Molloy Deep

Arctic Ocean, 5,573m

Length: **68.3m** Top speed: **13 knots**

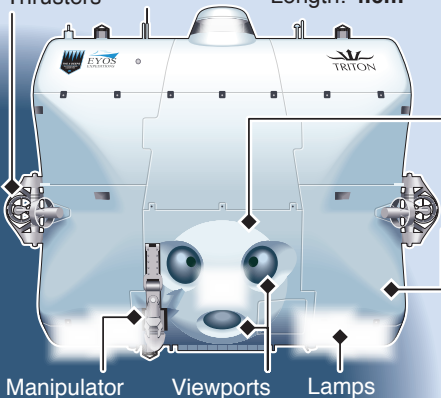
■ Deep dives

■ Other dives of scientific or historical interest



DSV "LIMITING FACTOR": Only manned submersible certified for dives to 11,000m
Thrusters

Length: **4.6m**



1 Meteor Deep, 8,428m

2 Diamantina Trench, 7,079m

3 Philippine Trench, 10,540m

4 South Solomon Trench, 8,000m

5 Tonga Trench, 10,800m

Titanium pressure hull

Two crew seated inside sphere measuring 90mm thick and with inner diameter of 1.5m

Electrical power: 65kWh battery supplies life support systems, manipulator, thrusters, LED lamps and 8K resolution cameras

Endurance: **16 hrs**

Descent to 11,000m: **2.5 hrs**

Emergency life support: **96 hrs**