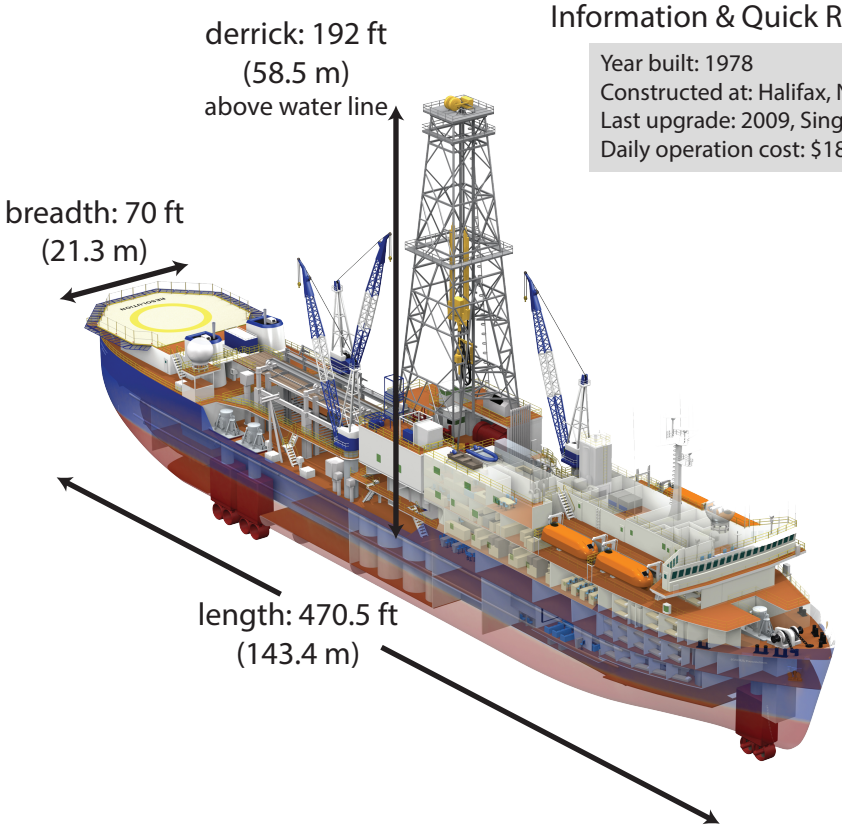
JOIDES Resolution

Information & Quick Reference



Year built: 1978
Constructed at: Halifax, Nova Scotia, Canada
Last upgrade: 2009, Singapore
Daily operation cost: $180k - 270k (expedition dependent)

Owned by: ODL AS (Siem Offshore AS)
Science Operator: Texas A&M University
Port of Registry: Limassol, Cyprus

Weight
gross tonnage: 10,282 standard tons (20.5 million lbs)

Propulsion
2 main propeller shafts; 9000 horsepower
12 thrusters; 750 horsepower

Scientific Spaces
Square footage: 18,000 square ft
Refrigerated core storage: 26,250 cubic ft

Moonpool: 22 ft diameter (6.7 m)

Wireline: ~6,400 m
(max drilling a combination of water & penetration)

Drill pipe: 46,500 ft (14,173 m)

Transit Speed: 10.5 kt (optimal)

JOIDES Resolution (1985 - present)
1985 - 2003: Ocean Drilling Program, ODP
2004 - 2013: Integrated Ocean Drilling Program, IODP
2013 - 2024: International Ocean Discovery Program, IODP

The vessel is named for the HMS Resolution, which explored the Pacific Ocean, its islands, and the Antarctic region under the command of Captain James Cook over 200 years ago.

The "JOIDES" in the ship's name stands for **J**oint **O**ceanographic **I**nstitutions for **D**eep **E**arth **S**ampling. The name represents the original partnership of universities that initiated scientific ocean drilling.

Expeditions

Per year: 4-5 expeditions

Time at sea: typically 60 days
(Time at sea without re-provisioning: 75 days)

IODP members: 21 countries

Personnel Complement
Capacity: 125

Scientists onboard: ~30

Science Technicians: ~30

Crew: ~65

Coring Statistics & Records

IODP Expeditions/ODP Legs completed: >193

Operational: > 12,115 days

Distance traveled: > 684,394 nautical miles

Sites visited: > 1025

Holes drilled: > 2,817

Cores recovered: > 59,278

Deepest water: 5,968 m (Mariana Basin, Hole 802A)

Deepest hard rock: 2,111 m (Costa Rica Rift, Hole 504B)
(over ~1 year total to recover)

Deepest sediment: 1,927 m (Canterbury Basin, Hole U1352)
(15 days to recover)

Most core recovered on a single cruise: 8,003 m
(SE Atlantic Ocean, Leg 175)

Scientific Ocean Drilling History
1958 - 1966: Project Mohole
1968 - 1983: Deep Sea Drilling Project, DSDP (Glomar Challenger)