



HARRY DEWOLF-CLASS ARCTIC/OFFSHORE PATROL SHIP

The Arctic/Offshore Patrol Ship (AOPS) project will deliver six ice-capable ships, designated as the Harry DeWolf Class, after Canadian wartime naval hero Vice-Admiral Harry DeWolf. The AOPS will be capable of:

- armed sea-borne surveillance of Canada's waters, including the Arctic
- providing government situational awareness of activities and events in these regions
- cooperating with other partners in the Canadian Armed Forces and other government departments to assert and enforce Canadian sovereignty, when and where necessary.

The first AOPS, HMCS Harry DeWolf, was launched in fall 2018, and was delivered to the RCN on July 31, 2020. It was commissioned on June 26, 2021. Construction of AOPS three, four and five is ongoing, and construction of the sixth ship is expected to begin in 2022.

AOPS SPECIFICATIONS:

Length:	103 metres
Beam:	19 metres
Complement:	65



Halifax-class Canadian
Patrol Frigate
Displacement: 4,770 tonnes



Harry DeWolf-class Arctic/
Offshore Patrol Ship
Displacement: 6,440 tonnes



To scale

Kingston-class Maritime
Coastal Defence Vessel
Displacement: 970 tonnes

HELICOPTER CAPABILITY

Depending on the mission, the embarked helicopter could range from a small utility aircraft right up to the new CH-148 maritime helicopter.

CARGO/PAYLOADS

Multiple payload options such as shipping containers, underwater survey equipment, or a landing craft. Ship has a 20-tonne crane to self-load/unload.

VEHICLE BAY

For rapid mobility over land or ice, the ship can carry vehicles such as pickup trucks, ATVs, and snowmobiles.

DIESEL/ELECTRIC PROPULSION

Propulsion: Two 4.5 megawatt main propulsion engines, four 3.6 megawatt generators.

RETRACTABLE ACTIVE FIN STABILIZERS

Deployed to reduce ship roll for open ocean operations, retracted for operations in ice.

MULTI-PURPOSE OPERATIONAL SPACE

Where operational planning and mission execution will be coordinated.

INTEGRATED BRIDGE NAVIGATION SYSTEM

Modern integrated bridge, from which control of navigation, machinery, and damage control systems can be performed.

MULTI-ROLE RESCUE BOATS

Top speed of 35+ knots, 8.5 metres long. Will support rescues, personnel transfers, or boarding operations.

BAE MK 38 GUN

Remote controlled 25 mm gun to support domestic constabulary role.

ENCLOSED FOCSLE/CABLE DECK

Protects foredeck machinery and workspace from harsh Arctic environment.

BOW THRUSTER

To enable manoeuvring or berthing without tug assistance.