

Heard and McDonald Islands less energy saving solutions

What is the Heard Island & McDonald Islands Marine Reserve?

One of the world's largest highly protected IUCN category 1A marine reserves the Heard Island and McDonald Islands Marine Reserve was established by Australia in the waters surrounding HIMI in 2002.

Where is Heard Island & McDonald Islands located?

Located in the Southern Ocean, many thousands of kilometres from the nearest significant human population, Heard Island and McDonald Islands (HIMI) has a fair amount of natural protection from the potentially harmful effects of human activities.

What causes methane seeps near Heard Island?

Methane seeps have recently been discovered near Heard Island and may be a result of volcanic activity and/or accelerated decomposition of biological material in sediments due to geothermal energy (Spain et al., 2020).

How many submarine banks are there on Heard Island?

The five discrete submarine banks rising less than 500 metres with gazetted names: Pike, Discovery, Aurora and Coral banks to the north and north-west of Heard Island; and Shell Bank to the east, which is separated from the plateau by a trough were confirmed by Broksma (ibid.).

Does Heard Island have high resolution bathymetry?

High resolution bathymetry of the seafloor around Heard Island has been updated in 2011 (Beaman & O'Brien, 2011) and 2023 (Beaman, 2023) to incorporate single beam data from fishing vessels and multi-beam data from research voyages, including from the 2016 and 2020 voyages by the RV Investigator (Coffin et al., 2020).

Are there seals on Heard Island?

Of these, the Antarctic fur seal (*Arctocephalus gazella*) and the southern elephant seal (*Mirounga leonina*) breed in significant numbers on Heard Island and forage in the HIMI EEZ. Following sealing in the 19th century, Antarctic fur seals *Arctocephalus gazella* recolonised Heard Island in the 1960s.

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Island and McDonald Islands group show unique evolutionary adaptations to the environment, and several other invertebrate groups provide opportunities to study evolutionary processes in undisturbed populations at the southern limits

The enlargement of the Heard and McDonald Islands Marine Reserve is a huge step forward, but there is still more work to be done--both in Australia and around the world--to protect our planet's most fragile ecosystems.

Heard Island and McDonald Islands (HIMI) are an archipelago of seven islands approximately 4000 km southwest of continental Australia (Figure 1). These islands are an external Territory ...

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The Heard & McDonald Islands site in Australia was inscribed on the World Heritage List in 1997. As the only volcanically active sub-Antarctic islands, Heard and McDonald provide the opportunity to observe ongoing geomorphic processes and glacial dynamics.

The Proposal to expand Heard Island and McDonald Islands Marine Reserve - Public consultation paper ("proclamation proposal") has been prepared to support public consultation on the proposed design of an expanded Heard Island and McDonald Islands (HIMI) Marine Reserve.

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The Australian subantarctic Heard Island and McDonald Islands (HIMI) Marine Reserve is among the world's most remote MPAs with notoriously harsh oceanographic conditions, and yet the...

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