

Heard and McDonald Islands efficient energy 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.

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).

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 Broolsma (ibid.).

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.

Commonwealth of Australia since 1953. The Heard Island and McDonald Islands Act 1953 provides the legislative basis for the Territory's administration. Administration of the Territory is the responsibility of the Australian Government department that administers the Heard Island and McDonald Islands Act 1953. This responsibility has ...

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Island Power Solutions develops tailor-made solutions for off-grid systems combining green energy production and storage. At Island Power Solutions we work closely with partners and local communities all to create efficient systems that help islands effectively access all their resources to generate cleaner and reliable energy.

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Heard Island and McDonald Islands in the Southern Ocean A map of Heard Island and McDonald Islands. Heard Island, by far the largest of the group, is a 368-square-kilometre (142 sq mi) mountainous island covered by 41 glaciers [21] (the island is 80% covered with ice [1]) and dominated by the Big Ben massif has a maximum elevation of 2,745 metres (9,006 ft) at ...

Please accept this as a submission to the draft proclamation for Heard and McDonald Islands Marine Park and the Notice of Intent to Create the Heard and McDonald Islands Marine Park Management Plan. Sincerely, First name Last name Email Postcode . Department of Climate Change, Energy, the Environment and Water consultation hub and privacy notice

About the assessment report The Heard Island and McDonald Islands (HIMI) Fishery lies in waters adjacent to the Islands of the same name. The Islands are Australia's most remote sovereign territory and are located on the Kerguelen Plateau in the south Indian Ocean, about 4,000 kilometres south-west of Perth. The HIMI Fishery extends from 12 nautical miles ...

The Territory of Heard Island and McDonald Islands (HIMI) is an Australian external territory comprising a volcanic group of mostly barren Antarctic islands, about two-thirds of the way from Madagascar to Antarctica. The group's overall size is 372 km² (144 sq mi) in area and it has 101.9 km (63 mi) of coastline. Discovered in the mid-19th century, the islands lie on ...

The Heard Island and McDonald Islands Marine Reserve, located around 4,000 kilometers southwest of Perth and 1,700 kilometers from Antarctica, contains some of the world's most pristine ecosystems. These remote islands are recognized for their glaciers, marshes, and Australia's only active volcanoes, making them one of the least damaged ...

Conservation values in the marine environment surrounding Heard Island and the McDonald Islands Department of Climate Change, Energy, the Environment and Water v Summary Heard Island and McDonald Islands (HIMI) are an external Territory of Australia, located approximately 4000 kilometres southwest of Australia in the southern Indian Ocean.

McDonald Island lies 43.5 kilometres due west of Heard Island, and is the major island in the McDonald Islands group. Satellite images taken in 2004 give evidence of significant volcanic activity over the last decade, which has seen the island increase in size from 1km² to 2.5 km² .

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 region's ...

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Assessment report for the Commonwealth Heard Island and McDonald Islands Fishery - October 2016 (DOCX - 125.58 KB) ...

Les îles Heard-et-MacDonald, en anglais Heard and McDonald Islands et Territory of Heard Island and McDonald Islands [1], sont un territoire extérieur de l'Australie situé dans le sud de l'océan Indien, sur la plaque antarctique. Il est constitué d'un petit archipel, les îles McDonald, ainsi que d'une île isolée, l'île Heard. Situé à 422 km au sud-sud-est des îles Kerguelen, 1 ...

Heard Island is 43 km long and 21 km wide. McDonald Islands are a group of uninhabited rocky islets, 40 km west of Heard Island (Encyclopaedia Britannica 2006). Heard Island has approximately 362.5 km² of area and the McDonald Island, 2.6 km². The site includes the adjacent offshore rocks and shoals and all territorial waters to a distance of 12 nautical ...

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Located in the Southern Ocean, this Australian external territory comprises mainly two volcanic islands, Heard Island and the McDonald Islands, featuring stark volcanic landscapes, glaciers, and the highest mountain in Australian territory, Mawson Peak. Significance.

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