

Heard and McDonald Islands fuelcell 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).

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 Brolsma (ibid.).

Does Heard Island have a benthic fauna?

The benthic fauna at Heard Island is diverse, with over 500 distinct invertebrate taxa identified in bottom samples from the banks, shallow plateau and slopes down to 1000 metres (Hibberd, 2014). Highest diversity is observed on the shallow plateau northwest of HIMI and on Shell Bank.

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.

Is there a Gazella on Heard Island?

When last surveyed, in the summer of 2003/4, the *A. gazella* population on Heard Island numbered in the thousands and was estimated to be growing at 12-20 percent per annum, and small numbers of sub-Antarctic fur seal pups were also observed (Page et al., 2003).

Heard Island is a major research site along the Antarctic Environmental Gradient (AEG). The AEG spans 30 degrees of latitude and includes a range of macro-climatic zones from cool temperate islands to the frigid and arid Antarctic ...

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A person working as Fuel Cell Technician in Heard Island and McDonald Islands typically earns around 1,600 AUD per month. Salaries range from 770 AUD (lowest) to 2,520 AUD (highest).. This is the average monthly salary including housing, transport, and other benefits. Fuel Cell Technician salaries vary drastically based on experience, skills, gender, or location.

Heard Island is a major research site along the Antarctic Environmental Gradient (AEG). The AEG spans 30 degrees of latitude and includes a range of macro-climatic zones from cool temperate islands to the frigid and arid Antarctic continent. Conducted simultaneous studies on Heard Island and the Kerguelen Islands during the 2003-04 summer.

The tri-gen system produces 2.3-megawatts of renewable electricity, 1,200 kg/day of hydrogen and 1,400 gallons of water. It is owned and operated by FuelCell, which has contracted Toyota to supply ...

Island Power Solutions works in cooperation with governmental agencies, foundations, NGOs and with local businesses and communities to build a more sustainable future. We provide innovative renewable energy solutions, guaranteeing value to our clients through reliable and ...

Heard Island and McDonald Islands. Antarctica. Page last updated: November 27, 2024. Photos of Heard Island and McDonald Islands. view 3 photos. Country Flag. View Details. Country Map. View Details. Locator Map. View Details. Contents. Introduction. Geography. People and Society ...

Mawson Peak on Heard Island is the highest Australian mountain (at 2,745 meters, it is taller than Mt. Kosciuszko in Australia proper), and one of only two active volcanoes located in Australian territory, the other being McDonald Island; in 1992, McDonald Island broke its dormancy and began erupting; it has erupted several times since, most ...

Grids with high solar adoption may over-generate during the day and under-generate as the sun sets and energy demand rises. FuelCell Energy's solid oxide electrolysis (SOEC) platform, currently under development, aims to balance time gap problems in the market by producing and storing hydrogen -- so that energy from wind and solar energy can ...

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Public consultation paper 1 Purpose of this document 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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Heard Island and McDonald Islands is the only sub-Antarctic island group with almost no human-introduced species. Beyond "the shallows" - the case for expanding the reserve When the original reserve was designed it was noted that future management should consider whether sufficient representation of the different kinds of habitats ...

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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 ...

L'isola Heard è di gran lunga la maggiore del gruppo, con una superficie di 368 km²; è brulla e montuosa, coperta per l'80% di ghiacci e dominata dal Mawson Peak, un vulcano alto 2.745 m che fa parte del massiccio chiamato Big Ben. Mawson Peak è uno dei due soli vulcani attivi del territorio australiano; l'altro si trova sull'isola McDonald. È anche uno dei monti più elevati dell ...

Wolof: Heard Island and McDonald Islands; Wu Chinese: ??????????; Yoruba: Erékùsù Heard àti Erékùsù McDonald; Yoruba: Erékù?ù Heard àti Àw?n Erékù?ù McDonald; Yoruba: Heard Island and McDonald Islands; Yue Chinese: ?????????; Zulu: I-Heard & McDonald Island; Heard- og McDonaldseyjar

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