

## SolÃ;rnÃ- systémy kociÃ;n Heard and McDonald Islands

This study reports the first atmospheric measurements of iron concentration and solubility near and downwind of the volcanically active islands of Heard and McDonald Islands (HIMI) on the ...

Existing data suggests that Heard and McDonald Islands are surrounded by fields of undersea volcanoes for several hundred kilometres. The main objective of this voyage is to test the hypothesis that hydrothermal systems associated with active underwater hotspot volcanoes supply iron to the Southern Ocean which in turn nourishes phytoplankton ...

Heard Island and the McDonald Islands are free from introduced predators and provide crucial breeding habitat in the middle of the vast Southern Ocean for a range of birds. The surrounding waters are important feeding areas for birds and some scavenging species also derive sustenance from their cohabitants on the islands.

The activity on the McDonald Islands group resulted in the island doubling in size and increasing in elevation by about 100 m (Australian Government 2016). Along with the French Kerguelen group of islands 440 km to the northwest, Heard and McDonald Islands form the only exposed parts of the submarine Kerguelen plume (Australian Government 2016).

The landforms on Heard Island and McDonald Islands (HIMI) have been sculpted by the interaction of unusually diverse processes. These include a long, complex geological history, multiple episodes of volcanic activity, erosion and transport by wind, water and glaciers, moulding by vigorous marine processes and the influence of gravity.

OverviewWildlifeHistoryGeographyAdministration and economySee alsoFurther readingExternal linksThe islands are part of the Southern Indian Ocean Islands tundra ecoregion that includes several subantarctic islands. In this cold climate, plant life is mainly limited to grasses, lichens, and mosses. Low plant diversity reflects the islands" isolation, small size, severe climate, the short, cool growing season and, for Heard Island, substantial permanent ice cover. The main environmental deter...

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Heard Island and McDonald Islands (HIMI) are a remote subantarctic island group located about 4,000 km south-west of Western Australia and approximately 1,700 km from the Antarctic continent. The HIMI exclusive economic zone (EEZ) abuts the French EEZ around the Kerguelen Islands.

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This study reports the first atmospheric measurements of iron concentration and solubility near and downwind of the volcanically active islands of Heard and McDonald Islands (HIMI) on the Kerguelen plateau.

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