

Marine Protected Areas: Tier 1 Statistic, 2022

Director-General of Conservation
Department of Conservation
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Objectives

The objective of this report is to provide the current statistics relating to marine protected areas (MPAs) inshore of the outer (12 nautical mile) limit of New Zealand's Territorial Sea.

Concepts

In 2005, New Zealand released its Marine Protected Areas Policy and Implementation Plan (MPA Policy), the objective of which is to: "Protect marine biodiversity by establishing a network of marine protected areas that is comprehensive and representative of New Zealand's marine habitats and ecosystems" (Department of Conservation and Ministry of Fisheries 2005).

A range of management tools may provide protection to marine biodiversity. An MPA protection standard was developed to determine which management tools contribute to the above MPA policy objective (Ministry of Fisheries and Department of Conservation 2008). The MPA protection standard describes two types of MPAs: Type 1 MPAs (marine reserves) and Type 2 MPAs (other management tools that meet the protection standard).

In 2011, an assessment was made of the areas managed by all tools in New Zealand's Territorial Sea¹, to inventory the existing marine reserves (Type 1 MPAs) and also determine which other tools met the MPA protection standard and could be considered to be Type 2 MPAs (Department of Conservation and Ministry of Fisheries 2011).

New Zealand's Official Statistics System has identified a suite of key official statistics that are performance measures for New Zealand and are known as "Tier 1 Statistics". Tier 1 statistics:

- are essential to central government decision making
- are of high public interest
- meet public expectations of impartiality and statistical quality
- require long-term continuity of the data
- provide international comparability in a global environment
- are produced by various agencies on a variety of topics.

¹ Refer to note in definitions.



In 2011, the area of MPAs was identified as a Tier 1 Statistic, with the Department of Conservation and the Ministry for Primary Industries as producing agencies. This report complies with the Principles and Protocols for Producers of Tier 1 Statistics (Statistics New Zealand 2007) and provides the current statistics relating to MPAs inshore of the outer (12 nautical mile) limit of New Zealand's Territorial Sea, including the area of MPAs, the types of MPAs (Type 1 and Type 2) and the biogeographic regions within which they are located.

Table 1: Areas (km²) of MPAs in coastal marine biogeographic regions. A dash (-) indicates no MPAs. Data are rounded to the nearest km².

Biogeographic Region	Total Area (km ²) of Marine Reserves ²	Total Area (km ²) of Type 2 MPAs ³
Kermadec Islands	7,480 ⁴	-
Three Kings	-	-
North Eastern	89	959
West Coast North Island	32	332
East Coast North Island	29	-
North Cook Strait	30	239
South Cook Strait	39	137
West Coast South Island	174	95
East Coast South Island	111	-
Fiordland	103	374
Southern South Island	11	90
Chatham Islands	-	-
Snares Islands	-	-
Subantarctic Islands	9,332	2,533
TOTAL	17,430	4,758

² Areas for marine reserves (Type 1 MPAs) are taken directly from the relevant Order in Council or Act and therefore may differ from other reported figures, particularly those calculated using GIS.

³ Coverage of the Type 2 MPAs in this report are calculated using the New Zealand Transverse Mercator (NZTM) projection in GIS. Updates to GIS datasets has resulted in relatively minor changes in some of the MPA area statistics compared to the 2021 report

⁴ There is a historic discrepancy with the demarcation of the boundary of the reserve described in the Marine Reserve (Kermadec Islands) Order 1990. A fix for this discrepancy is underway. 100% of the Territorial Sea within the Kermadec biogeographic region is protected by the marine reserve.

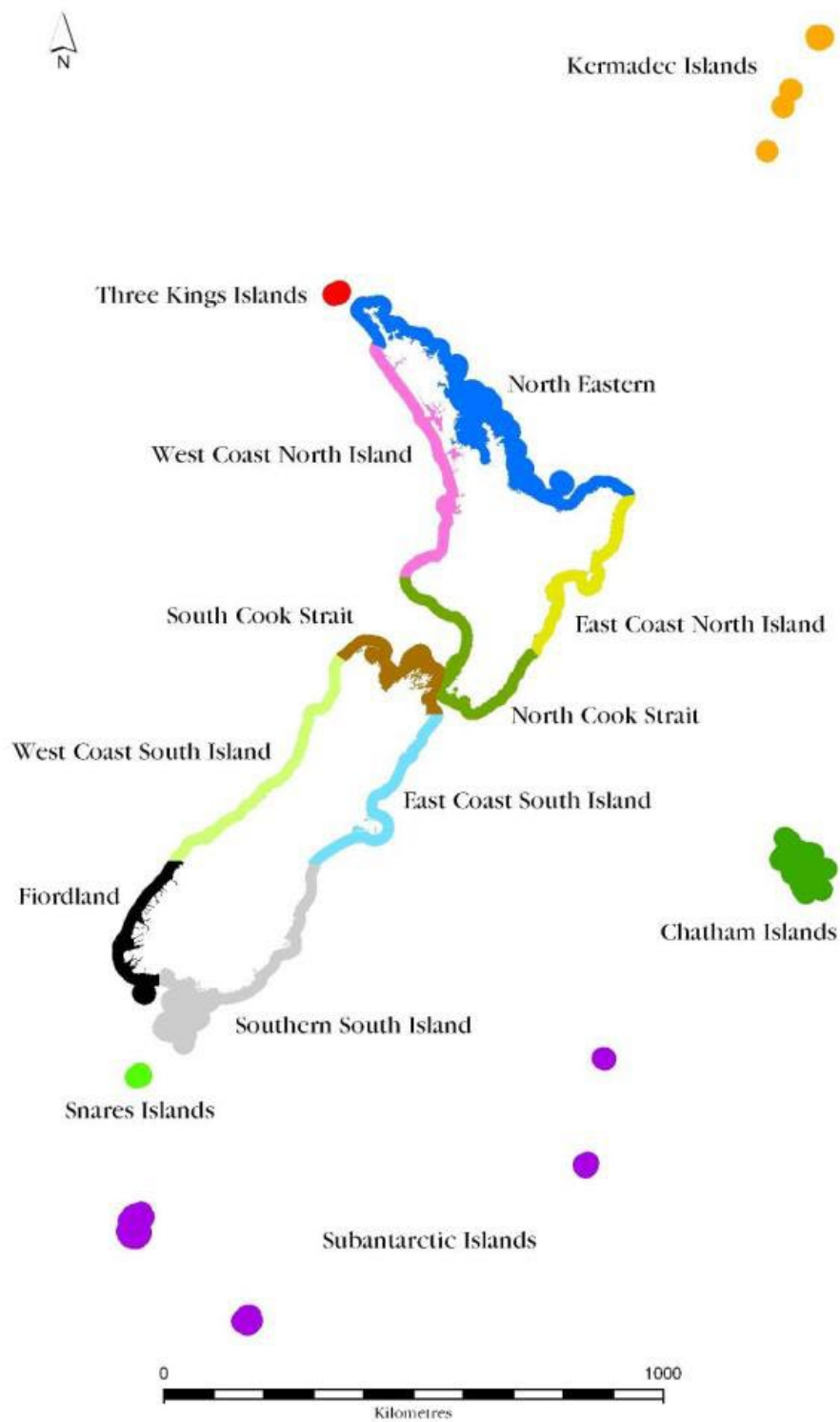


Figure 1: Coastal marine biogeographic regions in New Zealand (adapted from MFish & DOC 2008).

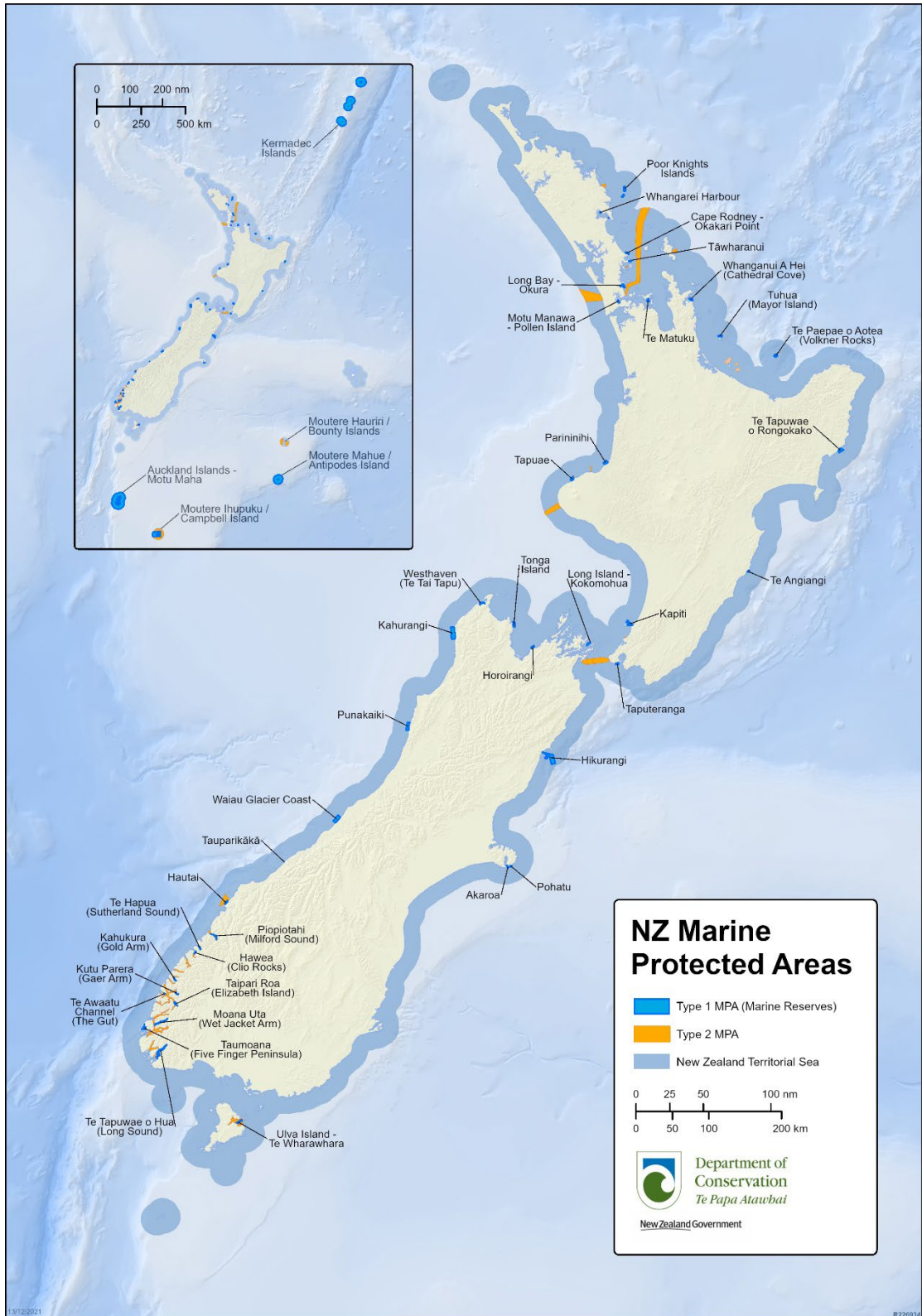


Figure 2: MPAs in New Zealand - Type 1 (Marine reserves) and Type 2 MPAs, at January 2023 (source: DOC Information Services).

Survey Period

The first marine reserve was established in 1975. The first Type 2 MPA was established in 1966. These areas were not classified as Type 1 or Type 2 MPAs until 2011, when the national inventory of MPAs in New Zealand's Territorial Sea⁵ was completed (Department of Conservation and Ministry of Fisheries 2011).

Date of extraction of data

01 February 2023.

Definitions

Biogeographic region: An area that is defined according to patterns of ecological and physical characteristics in the seascape (Department of Conservation and Ministry of Fisheries 2005).

Biological diversity (biodiversity): The variability among living organisms from all sources, including land, marine and freshwater ecosystems and the ecological complexes of which they are a part; this includes diversity within species (including genetic diversity), between species and of ecosystems (based on the definition of the Convention on Biological Diversity)

Marine protected area (MPA): An area of the marine environment especially dedicated to, or achieving, through adequate protection, the maintenance and/or recovery of biological diversity at the habitat and ecosystem level in a healthy functioning state (Department of Conservation and Ministry of Fisheries 2005).

Marine reserves: Specified areas of the sea and foreshore that are managed to preserve them in their natural state as the habitat of marine life for scientific study. Marine reserves are established and managed in accordance with the Marine Reserves Act 1971. Refer to:

<https://www.doc.govt.nz/nature/habitats/marine/type-1-marine-protected-areas-marine-reserves/>

Territorial Sea: The New Zealand Territorial Sea is an area of water not exceeding 12 nautical miles in width which is measured seaward from the territorial sea baseline. Refer to: <https://www.lin.govt.nz/sea/nautical-information/maritime-boundaries/maritime-boundary-definitions>

Inshore of the outer (12 nautical mile) limits of the Territorial Sea (additional note): The term "Territorial Sea" has been used (imprecisely) in the 2011 & 2019 gaps analysis reports (Department of Conservation and Ministry of Fisheries 2011 & Dept of Conservation 2019), and in the Tier 1 Statistic up to 2013, to refer to the marine environment of New Zealand inshore of the 12 nautical mile Territorial Sea limit. The landward boundary of this Statistic is difficult to precisely define, because the boundaries used to define MPAs and the marine environment have

⁵ Refer to note in definitions

varied. While some of the MPAs reported here do extend landward of the Territorial Sea baseline (e.g. into bays, estuaries and river mouths), they extend no further than the landward limits of the “Marine and Coastal Area”⁶.

Classifications Used

Refer to Definitions.

Data source

The classification of management tools as Type 1 or Type 2 MPAs is from the gap analysis report (Department of Conservation and Ministry of Fisheries 2011). Modifications of that analysis have been made to account for the establishment of new MPAs since that report was published.

The areas in Table 1 for marine reserves (Type 1 MPAs) are taken directly from the relevant legislative instrument (Order in Council or Act of Parliament). Therefore, areas may differ from other reported figures, particularly those calculated using GIS, including those reported in Department of Conservation and Ministry of Fisheries (2011). Because no area calculations are specified in the relevant legislation for the Hikurangi and Cape Rodney to Okakari Point Marine Reserves, the areas of those MPAs (104 km² and 5 km² respectively) have been calculated in GIS using the NZTM geodetic data projection.

Additional information on New Zealand’s MPAs is available in the Department of Conservation’s ‘Marine’ web pages, <https://www.doc.govt.nz/nature/habitats/marine/>.

Source agency and publishing agency

The source agencies are the Department of Conservation and the Ministry for Primary Industries (former Ministry of Fisheries). The publishing agency is the Department of Conservation. All Tier 1 MPA reports are published at: <https://www.doc.govt.nz/about-us/science-publications/conservation-publications/marine-and-coastal/marine-protected-areas/marine-protected-areas-tier-1-statistic/>.

Major data limitations

MPAs in New Zealand are defined for domestic planning purposes using the MPA protection standard as set out in the MPA Policy. This protection standard is specific to New Zealand, and for the purposes of international comparisons, it should be noted that different criteria or standards may be used for defining MPAs for other purposes or by other jurisdictions.

⁶ Marine and Coastal Area (Takutai Moana) Act 2011

Analytical methods used

Not applicable to these data.

Discontinuities in time series

The time series is continuous.

Revisions (if any)

There have been no changes to the areas reported for 2022.

Other (rounding, valuations, time of recording etc)

Data are rounded to the nearest km².

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Technical reports available

Department of Conservation and Ministry of Fisheries (2011) Coastal marine habitats and marine protected areas in the New Zealand Territorial Sea⁷: a broad scale gap analysis. Wellington, New Zealand. Available at:

<https://www.doc.govt.nz/about-us/science-publications/conservation-publications/marine-and-coastal/marine-protected-areas/coastal-marine-habitats-and-marine-protected-areas-in-the-new-zealand-territorial-sea-a-broad-scale-gap-analysis/>

⁷ Refer to note in definitions

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Department of Conservation, Ministry for the Environment, Ministry for Primary Industries (2019) New Zealand marine protected areas: Gaps analysis. Dept of Conservation, Wellington. 75p. Available at:
<https://www.doc.govt.nz/globalassets/documents/conservation/marine-and-coastal/marine-protected-areas/mpa-publications/mpa-gaps-analysis-report-2019.pdf>

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Ministry of Fisheries & Department of Conservation (2008) Marine protected areas: Classification, protection standard and implementation guidelines. Ministry of Fisheries and Department of Conservation, Wellington, New Zealand. Available at: <https://www.doc.govt.nz/about-us/science-publications/conservation-publications/marine-and-coastal/marine-protected-areas/marine-protected-areas-classification-protection-standard-and-implementation-guidelines/>

Statistics New Zealand (2007) Principles and protocols for producers of Tier 1 Statistics. Statistics New Zealand, Wellington, New Zealand.