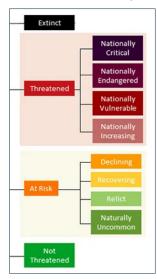
Infographic 1 references

1. For an explanation of the conservation status system, see Department of Conservation (DOC). (n.d.). Conservation status of plants and animals. Retrieved 11 May 2023 from www.doc.govt.nz/nature/conservation-status



- 2. Southern Seabirds Trust. (2019). New Zealand Seabirds. Retrieved 11 May 2023 from www.catchfishnotbirds.nz/nz-seabirds
- 3. Forest & Bird. (2018). Important Bird Areas for New Zealand Seabirds. Retrieved 11 May 2023 from www.forestandbird.org.nz/resources/important-bird-areas-new-zealand-seabirds
- 4. Schuckard, R. (2022). New Zealand king shag Kawau pāteketeke. New Zealand Birds Online. Retrieved 11 May 2023 from www.nzbirdsonline.org.nz/species/new-zealand-king-shag
- 5. NIWA. (March 2017). Unique research records rare whale species in Cook Strait. Retrieved 15 May 2023 from www.niwa.co.nz/news/unique-research-records-rare-whale-species-in-cook-strait

Seabird references

A: Conservation status

See Table 1.1.

B: Identification and location

For a list of IBA seabird species for (i) Cook Strait and (ii) the Marlborough Sounds, see Forest & Bird. (2014). Important Areas for New Zealand Seabirds – Sites at Sea, Seaward Extensions, Pelagic Areas, pp. 12–15. The Royal Forest & Bird Protection Society of New Zealand. Retrieved 10 May 2023 from www.forestandbird.org.nz/resources/important-bird-areas-new-zealand-seabirds. See excerpt in Tables 3 and 4 below.

C: Disclaimer

There are many other endangered seabirds that inhabit the Cook Strait and Marlborough Sounds IBAs that are not included in this infographic. See, for example, Table 5.

Marine mammal and shark references

A: Conservation status

See Table 1.2.

B: Identification

Dolphins

For a list of dolphins found in New Zealand waters, see Department of Conservation (DOC). (n.d). Dolphins. Retrieved 15 May 2023 from www.doc.govt.nz/nature/native-animals/marine-mammals/dolphins. This list was reviewed by Elisabeth Slooten from the New Zealand Whale and Dolphin Trust, via personal correspondence (September 2021).

Humpback whale, southern right whale, blue whale (probably pygmy blue whale)Marlborough District Council. (2022). Resource Management Act 1991 – Decision of Marlborough District Council. New Zealand King Salmon Company Limited, U190438, p. 14. Retrieved 15 May 2023 from www.mcguinnessinstitute.org/wp-content/uploads/2022/12/U190438-Decision-Document.pdf

Humpback whale, southern right whale

Yahia, Y. A. (n.d.). Marlborough Sounds Wildlife Identification Guide. New Zealand King Salmon (NZKS). Retrieved 15 May 2023 from www.kingsalmon.co.nz/wp-content/uploads/2020/08/Marlborough-Sounds-Wildlife-ID-Booklet.pdf

Location: Past and present evidence of the appearance of marine mammals and sharks in Cook Strait/the Marlborough Sounds

Dusky dolphin, bottlenose dolphin, common dolphin, orca/killer whale, Hector's dolphin

'Five types of dolphin cruise the waters of the Marlborough Sounds, including the dusky, bottlenose, common, orca, and the rare hector's dolphins.' Destination Marlborough. (2019). Wildlife & Conservation. Retrieved 15 May 2023 from www.marlboroughnz.com/guides/ eco-environment/dolphins

Māui dolphin

'Māui dolphins live only on the west coast of the North Island from Maunganui Bluff to Whanganui. They were once found along most of the west coast of the North Island from Cook Strait to Ninety Mile Beach.' Department of Conservation (DOC). (n.d.). Facts about Hector's and Māui dolphin. Retrieved 15 May 2023 from https://www.doc.govt.nz/nature/native-animals/marine-mammals/dolphins/maui-dolphin/facts

Pilot whale

'Pilot whale (Globicephala sp.) calls detected by acoustic recorder stationed in Cook Strait, New Zealand from December 2016 to January 2017.' NIWA. (July 2017). Pilot whale (Globicephala sp.) calls detected by acoustic recorder stationed in Cook Strait, New Zealand. Retrieved 15 May 2023 from www.niwa.co.nz/videos/pilot-whale-globicephala-sp-calls-detected-by-acoustic-recorder-stationed-in-cook-strait-new-zealand

Antarctic blue whale

Figure 1: Study region, with median modelled Antarctic blue whale detection areas for June 2016. Warren, V. E., Širović, A., McPherson, C., Goetz, K. T., Radford, C. A. & Constantine, R. (6 January 2021). Passive Acoustic Monitoring Reveals Spatio-Temporal Distributions of Antarctic and Pygmy Blue Whales Around Central New Zealand. Frontiers in Marine Science, 7. Retrieved 15 May 2023 from www.frontiersin.org/articles/10.3389/fmars.2020.575257/full

Radio New Zealand (RNZ). (13 January 2021). Blue whale study finds special New Zealand connection. Retrieved 15 May 2023 from www.rnz.co.nz/national/programmes/summer-days/audio/2018779767/blue-whale-study-finds-special-new-zealand-connection

Humpback whale

In 2014, '92 humpback whales were counted [in Cook Strait], the second highest tally in the survey with the highest being 106 humpbacks in 2012.' Department of Conservation. (June 2015). Whale watching in Cook Strait. Retrieved 15 May 2023 from www.doc.govt.nz/news/media-releases/2015/whale-watching-in-cook-strait

Pygmy blue whale

'The other [pygmy blue] whale appeared to have been feeding in the Westport area before going through Cook Strait. "It just went right through the strait and down the other side ... It spent quite a bit of time in the Kaikōura area".' Daly, M. (20 March 2018). Tagged blue whale swims around the South Island. Stuff. Retrieved 15 May 2023 from www.stuff.co.nz/science/102420082/tagged-blue-whale-swims-around-the-south-island

Southern right whale

In 2018 '[a] southern right whale has been delighting camera-wielding onlookers hoping to get a shot in Wellington, but recordings from history show whaling was a very different hunt until quite recently. 'Radio New Zealand (RNZ). (11 July 2018). Whaling history in New Zealand's Cook Strait: Ngā Taonga Sound & Vision archives. Retrieved 15 May 2023 from www.rnz.co.nz/national/programmes/afternoons/audio/2018653157/whaling-history-in-new-zealand-s-cook-strait-nga-taonga-sound-and-vision-archives

Basking shark and great white shark

Relevant shark species that may interact with Blue Endeavour as identified by the AEE, included common thresher, shortfin mako, porbeagle, and blue shark. There is also potential for interactions with great white sharks (threatened, nationally endangered) in all areas, and basking sharks (threatened, nationally vulnerable) off the east coast of the South Island/TeWaipounamu.' MDC Decision on NZKS application [U190438]: Blue Endeavour (para 555).

Of note, only five sharks are protected under the Wildlife Act 1953, in that they cannot be retained by law but any catches must be reported. Schedule 7A of the Wildlife Act 1953 includes the basking shark and the white pointer shark (another name for the great white shark).

C: Disclaimer:

There are likely to be many other endangered marine mammals that inhabit Cook Strait and the Marlborough Sounds that are not included in this infographic.

Table 1.1: Selected seabirds – conservation status

Species (A-Z) This list is generated from the IBA lists in Tables 3 and 4	Conservation status	Year of status	Reference
Antipodean albatross	Nationally critical	Not found	Elliott, G. P. & Walker, K. J. (2022). Antipodean albatross – Toroa. New Zealand Birds Online. Retrieved 10 May 2023 from www.nzbirdsonline.org.nz/species/antipodean-albatross
Australasian gannet	Not threatened	Not found	Ismar, S. M. H. (2022). Australasian gannet – Tākapu. New Zealand Birds Online. Retrieved 10 May 2023 from www.nzbirdsonline.org.nz/species/australasian-gannet
Black-billed gull	Declining	Not found	McClellan, R. K. & Habraken, A. (2022). Black-billed gull – Tarāpuka. New Zealand Birds Online. Retrieved 10 May 2023 from www.nzbirdsonline.org.nz/species/black-billed-gull
Black-fronted tern	Nationally endangered	Not found	Bell, M. (2022). Black-fronted tern – Tarapirohe. New Zealand Birds Online. Retrieved 10 May 2023 from www.nzbirdsonline.org.nz/species/black-fronted-tern
Buller's shearwater	Declining	Not found	Taylor, G. A. (2022). Buller's shearwater – Rako. New Zealand Birds Online. Retrieved 10 May 2023 from www.nzbirdsonline.org.nz/species/bullers-shearwater
Fairy prion	Relict	Not found	Miskelly, C. M. (2022). Fairy prion – Titī wainui. New Zealand Birds Online. Retrieved 10 May 2023 from www.nzbirdsonline.org.nz/species/fairy-prion
Fluttering shearwater	Relict	Not found	Gaskin, C. P. (2022). Fluttering shearwater – Pakahā. New Zealand Birds Online. Retrieved 10 May 2023 from www.nzbirdsonline.org . nz/species/fluttering-shearwater
Hutton's shearwater	Nationally vulnerable	Not found	Gaze, P. D. (2022). Hutton's shearwater – Kaikōura tītī. New Zealand Birds Online. Retrieved 10 May 2023 from www.nzbirdsonline.org.nz/species/huttons-shearwater
New Zealand king shag	Nationally endangered	Not found	Schuckard, R. (2022). New Zealand king shag – Kawau pāteketeke. New Zealand Birds Online. Retrieved 11 May 2023 from <u>www.</u> nzbirdsonline.org.nz/species/new-zealand-king-shag
Northern royal albatross	Nationally vulnerable	Not found	Sugishita, J. (2022). Northern royal albatross – Toroa. New Zealand Birds Online. Retrieved 10 May 2023 from www.nzbirdsonline.org.nz/species/northern-royal-albatross
Salvin's albatross	Nationally critical	Not found	Sagar, P. M. (2022). Salvin's mollymawk – Toroa. New Zealand Birds Online. Retrieved 10 May 2023 from www.nzbirdsonline.org.nz/species/salvins-mollymawk
Sooty shearwater	Declining	Not found	Sagar, P. M. (2022). Sooty shearwater – Tītī. New Zealand Birds Online. Retrieved 10 May 2023 from www.nzbirdsonline.org.nz/species/sooty-shearwater
Westland petrel	Naturally uncommon	Not found	Waugh, S. M. & Bartle, J. A. (2022). Westland petrel – Tāiko. New Zealand Birds Online. Retrieved 10 May 2023 from www.nzbirdsonline.org.nz/species/westland-petrel
White-capped albatross	Declining	Not found	Sagar, P. M. (2022). White-capped mollymawk – Toroa. New Zealand Birds Online. Retrieved 10 May 2023 from www.nzbirdsonline.org.nz/species/white-capped-mollymawk
White-chinned petrel	Not threatened	Not found	Bell, E. A. (2022). White-chinned petrel – Karetai kauae mā. New Zealand Birds Online. Retrieved 10 May 2023 from www.nzbirdsonline.org.nz/species/white-chinned-petrel

Table 1.2: Selected marine mammal and shark conservation status

Species (A–Z)	Conservation status	Year of status	Reference
Antarctic blue whale	Data deficient	2019	Baker, C. S., Boren, L., Childerhouse, S., Constantine, R., van Helden, A., Lundquist, D., Rayment, W. & Rolfe, J. R. (2019). Conservation status of New Zealand marine mammals, 2019. New Zealand Threat Classification Series 29. Department of Conservation, p. 12. Retrieved 14 June 2023 from www.nztcs.org.nz/reports/1067
Basking shark	Vulnerable	Not found	Department of Conservation (DOC). (n.d.). Basking sharks. Retrieved 29 May 2023 from www.doc.govt.nz/nature/native-animals/marine-fish-and-reptiles/sharks-mango/basking-shark
Bottlenose v.	Nationally endangered	2019	Baker, C. S., Boren, L., Childerhouse, S., Constantine, R., van Helden, A., Lundquist, D., Rayment, W. & Rolfe, J. R. (2019). Conservation status of New Zealand marine mammals, 2019. New Zealand Threat Classification Series 29. Department of Conservation, p. 6. Retrieved 11 May 2023 from www.nztcs.gorg.nz/reports/1067
Common dolphin	Not threatened	2019	Baker, C. S., Boren, L., Childerhouse, S., Constantine, R., van Helden, A., Lundquist, D., Rayment, W. & Rolfe, J. R. (2019). Conservation status of New Zealand marine mammals, 2019. New Zealand Threat Classification Series 29. Department of Conservation, p. 6. Retrieved 11 May 2023 from www.nztcs.org.nz/reports/1067
Dusky dolpm.	Not threatened	2019	Baker, C. S., Boren, L., Childerhouse, S., Constantine, R., van Helden, A., Lundquist, D., Rayment, W. & Rolfe, J. R. (2019). Conservation status of New Zealand marine mammals, 2019. New Zealand Threat Classification Series 29. Department of Conservation, p. 6. Retrieved 11 May 2023 from www.nztcs.org.nz/reports/1067
Great whi	Vulnerable	2018	Department of Conservation (DOC). (n.d.). White sharks. Retrieved 29 May 2023 from www.doc.govt.nz/nature/native-animals/marine-fish-and-reptiles/sharks-mango/white-shark
Hector's dolp!	Nationally vulnerable	Not found	Department of Conservation (DOC). (n.d.). Hector's dolphin. Retrieved 10 May 2023 from www.doc.govt.nz/nature/native-animals/marine-mammals/dolphins/hectors-dolphin
Humpback What	Migrant	2019	Baker, C. S., Boren, L., Childerhouse, S., Constantine, R., van Helden, A., Lundquist, D., Rayment, W. & Rolfe, J. R. (2019). Conservation status of New Zealand marine mammals, 2019. New Zealand Threat Classification Series 29. Department of Conservation, p. 6. Retrieved 11 May 2023 from www.nztcs.org.nz/reports/1067
Long-inned, Tot whale	Not threatened	2019	Baker, C. S., Boren, L., Childerhouse, S., Constantine, R., van Helden, A., Lundquist, D., Rayment, W. & Rolfe, J. R. (2019). Conservation status of New Zealand marine mammals, 2019. New Zealand Threat Classification Series 29. Department of Conservation, p. 6. Retrieved 11 May 2023 from www.nztcs.org.nz/reports/1067
Māui	Nationally critical	Not found	Department of Conservation (DOC). (n.d.). Māui dolphin.Retrieved 10 May 2023 from www.doc.govt.nz/nature/native-animals/marine-mammals/dolphins/maui-dolphin
Orca/M	Nationally critical	Not found	Department of Conservation (DOC). (n.d.). Killer whale/orca. Retrieved 10 May 2023 from www.doc.govt.nz/nature/native-animals/marine-mammals/dolphins/killer-whale-orca
Pygmy blue where	Data deficient	2019	Baker, C. S., Boren, L., Childerhouse, S., Constantine, R., van Helden, A., Lundquist, D., Rayment, W. & Rolfe, J. R. (2019). Conservation status of New Zealand marine mammals, 2019. New Zealand Threat Classification Series 29. Department of Conservation, p. 4. Retrieved 11 May 2023 from www.nztcs.org.nz/reports/1067
Short-finned nilot whale	Data deficient	2019	Baker, C. S., Boren, L., Childerhouse, S., Constantine, R., van Helden, A., Lundquist, D., Rayment, W. & Rolfe, J. R. (2019). Conservation status of New Zealand marine mammals, 2019. New Zealand Threat Classification Series 29. Department of Conservation, p. 12. Retrieved 14 June 2023 from www.nztcs.org.nz/reports/1067
Sout	Recovering	2019	Baker, C. S., Boren, L., Childerhouse, S., Constantine, R., van Helden, A., Lundquist, D., Rayment, W. & Rolfe, J. R. (2019). Conservation status of New Zealand marine mammals, 2019. New Zealand Threat Classification Series 29. Department of Conservation, p. 17. Retrieved 11 May 2023 from www.nztcs.org.nz/reports/1067

Table 1.3: Cook Strait IBA seabird species

Source: Forest & Bird. (2018). Important Bird Areas for New Zealand Seabirds: Sites at Sea: Seaward extensions, pelagic areas (p. 12). Retrieved 11 May 2023 from www.forestandbird.org.nz/resources/important-bird-areas-new-zealand-seabirds

NZ Moo5

Location	New Zealand, South Taranaki Bight, Cook Strait	
IBA criteria (see page 14)	A1, A4ii, A4iii	
Area	37, 776 km²	
Year of Assessment	2013	

IBA trigger species:

Species	Tracking	Supporting data	Activity	IBA criteria	IUC
Fairy Prion		Seaward extensions (135km), observations	Foraging	A4ii	LC
Fluttering Shearwater	GLS	Seaward extensions (30km), observations	Foraging	A4ii	LC
Sooty Shearwater		Observations	Foraging, passage	A1, (A4iii)	NT
Australasian Gannet	GPS	Seaward extensions (60km), observations	Foraging	A4ii	LC
Black-billed Gull ¹		Observations	Post-breeding foraging	A1	EN
Black-fronted Tern ¹		Observations	Post-breeding foraging	A1	EN
Antipodean Albatross		Observations	Passage	A1	VU
Northern Royal Albatross		Observations	Passage	A1	EN
White-capped Albatross		Observations	Passage	A1	NT
Salvin's Albatross		Observations	Passage	A1	VU
Westland Petrel		Observations	Passage	A1, A4ii	VU
White-chinned Petrel		Observations	Passage	A1	VU
Buller's Shearwater	GLS	Observations	Passage	A1	VU
Hutton's Shearwater	GLS	Observations	Passage	A1, A4ii	EN
Species group (multiple species inc not listed above)	cluding a number	Observations		A4iii	

 $^{^{1}\,}Included\,in\,Farewell\,Spit,\,Motueka,\,Wairau\,Lagoons\,and\,Lake\,Grassmere\,IBAs\,\hbox{-}\,\hbox{all}\,of\,which\,include\,coastal\,waters.$

NB: Cook Strait is a major passage or flyway for pelagic seabirds breeding outside the region, including birds from northern islands (e.g. Buller's Shearwaters, Grey-faced Petrel), the West Coast of the South Island (e.g. Westland Petrel) and Subantarctic islands (e.g. Salvin's Albatross, Antipodean Albatross).

Table 1.4: Marlborough Sounds IBA seabird species

Source: Forest & Bird. (2018). Important Bird Areas for New Zealand Seabirds: Sites at Sea: Seaward extensions, pelagic areas (p. 14). Retrieved 11 May 2023 from www.forestandbird.org.nz/resources/important-bird-areas-new-zealand-seabirds

NZ Moo6 | Marlborough Sounds

Location	New Zealand, northern South Island	
IBA criteria (see page 14) A1, A4ii, A4iii		
Area	1,358 km²	
Year of Assessment	2013	

IBA trigger species:

Species	Tracking	Supporting data	Activity	IBA criteria	IUC
King Shag		Seaward extensions (25km), bathymetry (50m)	Foraging	A1, A4ii	EN
Fairy Prion		Seaward extension	Foraging, passage	A4ii	LC
Fluttering Shearwater ¹	GLS	Seaward extension, observations	Foraging	А4іі	LC
Australasian Gannet		Seaward extension (60km), observations	Foraging	A4ii	LC
Black-billed Gull		Observations	Post-breeding foraging	A1, (A4iii)	EN
Black-fronted Tern		Observations	Post-breeding foraging	A1, (A4iii)	EN
Species group (multiple species not listed above)		Observations		A4iii	

¹ A significant proportion of the global population of Fluttering Shearwaters breeds on islands in the Marlborough Sounds (5-10%). Large flocks are regularly seen foraging deep within the sounds and in waters immediately offshore and have been taken into account when drawing the boundaries for this IBA.

Table 1.5: Additional species not mentioned in the IBA, but that inhabit the area

Source: Personal communication with Rob Shuckard, 9 May 2023

Species (A–Z)	Conservation status	Year of status	Reference	
Arctic skua	Migrant	Not found	Szabo, M. J. (2017). Arctic skua. New Zealand Birds Online. Retrieved 12 May 2023 from www.nzbirdsonline.org.nz/species/arctic-skua	
Flesh-footed shearwater	Relict	Not found	Taylor, G. A. (2022). Flesh-footed shearwater – Toanui. New Zealand Birds Online. Retrieved 12 May 2023 from www.nzbirdsonline.org.nz/species/flesh-footed-shearwater	
Little penguin	Declining	Not found	Flemming, S. A. (2022). Little penguin – Kororā. New Zealand Birds Online. Retrieved 12 May 2023 from www.nzbirdsonline.org.nz/species/little-penguin	
Pied shag	Recovering	Not found	Powlesland, R. G. (2022). Pied shag – Kāruhiruhi. New Zealand Birds Online. Retrieved 12 May 2023 from www.nzbirdsonline.org.nz/species/pied-shag	
Red-billed gull	Declining	Not found	Mills, J. A. (2022). Red-billed gull – Tarāpunga. New Zealand Birds Online. Retrieved 12 May 2023 from www.nzbirdsonline.org.nz/species/red-billed-gull	
Southern giant petrel	Migrant	Not found	Szabo, M. J. (2022). Southern giant petrel – Pāngurunguru. New Zealand Birds Online. Retrieved 12 May 2023 from www.nzbirdsonline.org.nz/species/southern-giant-petrel	
Whenua Hou diving petrel	Nationally critical	Not found	Taylor, G. A. (2022). Whenua Hou diving petrel – Kuaka Whenua Hou. New Zealand Birds Online. Retrieved 12 May 2023 from www.nzbirdsonline.org.nz/species/south-georgian-diving-petrel	
			Department of Conservation. (n.d.). Whenua Hou diving petrel/kuaka. Retrieved 12 May 2023 from www.doc.govt.nz/nature/native-animals/birds/birds-a-z/whenua-hou-diving-petrelkuaka/	
White-faced storm petrel	Relict	Not found	Southey, I. (2022). White-faced storm petrel – Takahikare. New Zealand Birds Online. Retrieved 12 May 2023 from www.nzbirdsonline.org.nz/species/white-faced-storm-petrel	
White-fronted tern	Declining	Not found	Mills, J. A. (2013, updated 2022). White-fronted tern – Tara. New Zealand Birds Online. Retrieved 12 May 2023 from www.nzbirdsonline.org.nz/species/white-fronted-tern	