

Macquarie Island

1. World Heritage Property Data

1.1 - Name of World Heritage property

Macquarie Island

1.2 - World Heritage property details

1.3 - Geographic information table

Name	Coordinates	Property (ha)	Buffer zone (ha)	Total (ha)	Inscription year
Macquarie Island	-54.595 / 158.896	557280	0	557280	1997
Total (ha)		557280	0	557280	

1.4 - Map(s)

Title	Date	Link to source
Macquarie Island - Map of the inscribed property	2012	

1.5 - Web and Social Media data of the property (if applicable)

- [The Official Site for Australian Travel and Tourism Australia](#)
- [Macquarie Island \(Tasmanian Parks and Wildlife Service\)](#)
- [Macquarie Island \(Australian National Antarctic Research Expedition - ANARE\)](#)
- [Natural site datasheet from WCMC](#)
- [2. Macquarie Island \(Tasmania Parks and Wildlife Service\): https://parks.tas.gov.au/explore-our-parks/macquarie-island-world-heritage-area 3. Macquarie Island \(Australian Antarctic Division\): https://www.antarctica.gov.au/antarctic-operations/stations/macquarie-island/ 4. Natural site datasheet from WCMC: Can no longer be found on website](#)

2. Other Conventions/Programmes under which the World Heritage property is protected (if applicable)

2.1 - Records indicate that your World Heritage property (in whole or in part) is designated and/or protected under the Conventions/programmes shown in the prefilled table below. Please check and amend as necessary.

		The World Heritage property (in whole or in part) <u>is</u> designated and/or protected under this convention/programme	The World Heritage property (in whole or in part) <u>is not</u> designated and/or protected under this convention/programme
2.1.1	International Register of Cultural Property under Special Protection (1954 Hague Convention for the Protection of Cultural Property in the Event of Armed Conflict)		×
2.1.2	List of Cultural Property under Enhanced Protection (Second Protocol to the 1954 Hague Convention for the Protection of Cultural Property in the Event of Armed Conflict)		×
2.1.3	The List of Wetlands of International Importance (The Ramsar List) (Convention on Wetlands of International Importance (Ramsar Convention))		×
2.1.4	World Network of Biosphere Reserves Man and the Biosphere (MAB) Programme		×
2.1.5	Global Geoparks Network UNESCO Global Geoparks		×

2.2 - Please provide comments on 2.1 if necessary

2.3 - Do your national authorities intend to request the granting of Enhanced Protection (if relevant) under the Second Protocol to the 1954 Hague Convention for the Protection of Cultural Property in the Event of Armed Conflict for the World Heritage property in the next three years?

Not applicable

2.4 - Do your national authorities intend to designate whole or part of the World Heritage property for inclusion in the List of Wetlands of International Importance (The Ramsar List), if relevant, in the next three years?

No

2.5 - Do your national authorities intend to designate whole or part of the World Heritage property as a Man and Biosphere Reserve (if

relevant) in the next three years?

No

2.6 - Do your national authorities intend to apply for whole or part of World Heritage property to be designated as a UNESCO Global Geopark (if relevant) in the next three years?

No

2.7 - Please indicate the level of cooperation at property level between designations under different Conventions/Programmes

2.7.1	1954 Hague Convention for the Protection of Cultural Property in the Event of Armed Conflict	
2.7.1	There is no contact with the Focal Point(s) of this designation/programme.	✕
2.7.2	The World Heritage Site Manager occasionally communicates with the Focal Point(s) of this designation/programme.	
2.7.3	The World Heritage Site Manager regularly communicates with the Focal Point(s) of this designation/programme.	
2.7.4	The World Heritage Site Manager also manages this designation/programme.	
2.7.2	Second Protocol to the 1954 Hague Convention for the Protection of Cultural Property in the Event of Armed Conflict	
2.7.1	There is no contact with the Focal Point(s) of this designation/programme.	✕
2.7.2	The World Heritage Site Manager occasionally communicates with the Focal Point(s) of this designation/programme.	
2.7.3	The World Heritage Site Manager regularly communicates with the Focal Point(s) of this designation/programme.	
2.7.4	The World Heritage Site Manager also manages this designation/programme.	
2.7.3	Convention on Wetlands of International Importance (Ramsar Convention)	
2.7.1	There is no contact with the Focal Point(s) of this designation/programme.	✕
2.7.2	The World Heritage Site Manager occasionally communicates with the Focal Point(s) of this designation/programme.	
2.7.3	The World Heritage Site Manager regularly communicates with the Focal Point(s) of this designation/programme.	
2.7.4	The World Heritage Site Manager also manages this designation/programme.	
2.7.4	Man and the Biosphere (MAB) Programme	
2.7.1	There is no contact with the Focal Point(s) of this designation/programme.	✕
2.7.2	The World Heritage Site Manager occasionally communicates with the Focal Point(s) of this designation/programme.	
2.7.3	The World Heritage Site Manager regularly communicates with the Focal Point(s) of this designation/programme.	
2.7.4	The World Heritage Site Manager also manages this designation/programme.	
2.7.5	UNESCO Global Geoparks	
2.7.1	There is no contact with the Focal Point(s) of this designation/programme.	✕
2.7.2	The World Heritage Site Manager occasionally communicates with the Focal Point(s) of this designation/programme.	
2.7.3	The World Heritage Site Manager regularly communicates with the Focal Point(s) of this designation/programme.	
2.7.4	The World Heritage Site Manager also manages this designation/programme.	

2.8 - Please add any further comments on cooperation with the other designation(s)/programme(s)

2.9 - Are you aware of any elements associated with the World Heritage property that have been inscribed on the Representative List of the Intangible Cultural Heritage?

Not aware

2.10 - Please list any elements associated with the World Heritage property inscribed under the Convention for the Safeguarding of the Intangible Cultural Heritage of which you are aware

2.11 - Are you aware of any documentary heritage listed under the Memory of the World Programme associated with the World Heritage property?

Not aware

2.12 - Please list any documentary heritage associated with the World Heritage property listed under the Memory of the World Programme of which you are aware.

3. Statement of Outstanding Universal Value

3.1 - Statement of Outstanding Universal Value for the property as adopted by the World Heritage Committee

Statement of Outstanding Universal Value

Brief synthesis

Macquarie Island lies almost 1,500 kilometres to the southeast of Tasmania, about half-way between Australia and Antarctica. The property includes Macquarie Island, Judge and Clerk Islets 11 kilometres to the north, the Bishop and Clerk Islets 37 kilometres to the south, rocks, reefs and the surrounding waters to a distance of 12 nautical miles. The main island is approximately 34 kilometres long and 5.5 kilometres wide at its broadest point, covering an area of approximately 12,785 hectares. The property covers an area of 557,280 hectares.

Macquarie Island has outstanding universal value for two reasons. First, it provides a unique opportunity to study, in detail, geological features and processes of oceanic crust formation and plate boundary dynamics, as it is only place on earth where rocks from the earth's mantle (6 kilometres below the ocean floor) are being actively exposed above sea level. These unique exposures include excellent examples of pillow basalts and other extrusive rocks. Second, its remote and windswept landscape of steep escarpments, lakes, and dramatic changes in vegetation provides an outstanding spectacle of wild, natural beauty complemented by vast congregations of wildlife including penguins and seals.

Criterion (vii): Macquarie Island provides an outstanding spectacle of wild, natural beauty with huge congregations of penguins and seals populating what has been described as a small speck thrust up into the vast Southern Ocean. The island lies in latitudes known as the 'Furious Fifties' because of the frequency of very strong winds and stormy seas, which have sculpted the island. A coastal terrace supports vast waterlogged and heavily vegetated areas, forming a mire based on deep peat beds known as 'featherbed'. This is framed by steep escarpments which rise spectacularly to a plateau surface dotted with innumerable lakes, tarns and pools. The continual westerly winds, which increase in force as they rise over the barrier of the island, and changes in topography result in dramatic changes in the vegetation cover which can vary from lush grassland to sparse feldmark within the space of a few metres.

Among the most aesthetically appealing features of the island are the vast congregations of wildlife, particularly penguins, during the breeding season. The breeding population of Royal Penguins (*Eudyptes schlegeli*), a species endemic to Macquarie Island and nearby Bishop and Clerk Islets, is estimated at over 850,000 pairs, one of the greatest congregations of seabirds in the world. The breeding population of King Penguins (*Aptenodytes patagonicus*), estimated at around 150,000–170,000 breeding pairs in 2000, is still expanding. As the King Penguin chicks do not leave the vicinity of the nest for a year, they survive the rigours of winter by huddling together on the windy and snow-swept beaches. Four species of albatross nest on steep and rugged cliffs and are easily viewed when nesting. Elephant Seals (*Mirounga leonina*) also form impressive colonies during the breeding season.

Criterion (viii): Macquarie Island and its outlying islets are geologically unique in being the only place on earth where rocks from the earth's mantle are being actively exposed above sea level. The island is the exposed crest of the undersea Macquarie Ridge, raised to its present position where the Indo-Australian tectonic plate meets the Pacific plate. These unique exposures provide an exceptionally complete section of the structure and composition of both the oceanic crust and the upper mantle, and provide evidence of 'sea-floor spreading' and tectonic processes that have operated for hundreds of millions of years. The geological evolution of Macquarie Island began 10 million years ago and continues today with the island experiencing earthquakes and a rapid rate of uplift, all of which are related to active geological processes along the boundary between the two plates.

Sequences from all crustal levels, down to 6 kilometres below the ocean floor, are exposed as a result of tilting and differential uplift on Macquarie Island. This provides rare evidence for sequences that are common from the bottom of the oceans to the upper mantle, but not seen elsewhere in surface outcrops. The lack of deformation of this exposed crust is highly significant as it exhibits key interrelated and interdependent oceanic crustal elements in their natural relationship.

Macquarie Island is the only ophiolite (a well-developed and studied geological complex) recognised to have been formed within a major ocean basin. The geology of the island is therefore considered to be the connecting link between the ophiolites of continental environments and those located within the oceanic crust.

Integrity

The property is of sufficient size and contains the necessary elements to demonstrate the key aspects of the geological processes of Macquarie Island and the outlying Bishop and Clerk and Judge and Clerk islets. All major elements of the Macquarie deformational zone are included in the property.

Human impacts, commencing on Macquarie Island in 1810, have resulted in major changes to the biota of the reserve. The commercial exploitation of seals and penguins, together with the introduction of alien species, resulted in the extinction of some native species and major declines in others. Resultant modifications to vegetation associations and nutrient cycles severely impacted on some species while benefiting others.

Active management programmes, commenced in the 1960s, are aimed at stopping and/or reversing some of these trends. Some of these programmes have resulted in very rapid changes, including the eradication of feral cats and wekas from the island. However, the recovery of natural ecosystem processes as a result of these management programmes may take centuries. Macquarie Island is remote and well protected and managed.

Protection and management requirements

The property is vulnerable to the consequences of anthropogenic climate change. The other threat to the integrity of the property, which is monitored and managed, is the spread of introduced species and pathogens. A project to eradicate the remaining mammalian pest species (rabbits, black rats and mice) is underway, and is expected to be completed in 2016.

Macquarie Island, the adjacent islets of Judge and Clerk and Bishop and Clerk, and all surrounding waters out to three nautical miles, is managed as a nature reserve by the Tasmanian Parks and Wildlife Service (PWS). Management of the reserve is guided by the Macquarie Island Nature Reserve and World Heritage Area Management Plan 2006. Most of the waters out to 200 nautical miles to the east of the reserve are within the Macquarie Island Commonwealth Marine Reserve, which is managed by the Australian Government in cooperation with the PWS.

Overarching management of the World Heritage values occurs under national legislation, the Environment Protection and Biodiversity Conservation Act 1999 (the Act). All World Heritage properties in Australia are 'matters of national environmental significance' protected and managed under the Act. This Act is the statutory instrument for implementing Australia's obligations under a number of multilateral environmental agreements, including the World Heritage Convention. By law, any action that has, will have or is likely to have a significant impact on the World Heritage values of a World Heritage property must be referred to the responsible Minister for consideration. Substantial penalties apply for taking such an action without approval. Once a heritage place is listed, the Act provides for the preparation of management plans which set out the significant heritage aspects of the place and how the values of the site will be managed.

Importantly, this Act also aims to protect matters of national environmental significance, such as World Heritage properties, from impacts even if they originate outside the property or if the values of the property are mobile (as in fauna). It thus forms an additional layer of protection designed to protect values of World Heritage properties from external impacts.

3.2 - Please list the key attributes of Outstanding Universal Value of your property and give an assessment of their condition. As a guideline, it is suggested to focus on approximately five key attributes (no more than 15 overall).

	Brief identification of attribute	Preserved	Compromised	Seriously compromised	Lost
3.2.1	Outstanding spectacle of wild, natural beauty	✘			

3.2.2	Extensive peat beds	×			
3.2.3	Dramatic changes in vegetation cover due to climatic conditions		×		
3.2.4	Vast congregations of wildlife	×			
3.2.5	Unique geological features associated with oceanic crust formation	×			
3.2.6					
3.2.7					
3.2.8					
3.2.9					
3.2.10					
3.2.11					
3.2.12					
3.2.13					
3.2.14					
3.2.15					

3.3 - Comments, conclusions and/or recommendations related to Statement of Outstanding Universal Value

3.2.3 Azorella macquariensis dieback has seriously compromised the feldmark ecosystem & is likely to continue with major changes in erosional processes & decline of associated communities & landforms. Climate change is the primary original factor & the ecosystem may have crossed a threshold & is changing into a new state. Other flora ecosystems are recovering rapidly since rabbit removal. 3.2.4 Since 2014 new nesting sites have been identified for previously unrecorded burrowing petrels.

4. Factors Affecting the Property

4.1. Buildings and Development

4.1.1 - Housing

Previous answer Cycle 2 (29/07/2011):

- Not relevant

Relevant	×
----------	---

4.1.2 - Commercial development

Previous answer Cycle 2 (29/07/2011):

- Not relevant

Relevant	×
----------	---

4.1.3 - Industrial areas

Previous answer Cycle 2 (29/07/2011):

- Not relevant

Relevant	×
----------	---

4.1.4 - Major visitor accommodation and associated infrastructure

Previous answer Cycle 2 (29/07/2011):

- Not relevant










Relevant	×
----------	---

4.1.5 - Interpretative and visitation facilities

Previous answer Cycle 2 (29/07/2011):

- Relevant, Positive, Current, Inside

×	Not relevant
---	--------------

	Impact		Origin		Trend of impact		
Impact	 Current	 Potential	 Inside	 Outside	 Decreasing	 Stable	 Increasing
 Positive ×	×		×			→	
 Negative							

4.1.6 - Please comment as necessary on how the factors selected as relevant in 4.1 are affecting the property either negatively or positively

4.2. Transportation Infrastructure

4.2.1 - Ground transport infrastructure

Previous answer Cycle 2 (29/07/2011):

- Not relevant

Relevant	✕ Not relevant
----------	----------------

4.2.2 - Underground transport infrastructure

Previous answer Cycle 2 (29/07/2011):

- Not relevant

Relevant	✕ Not relevant
----------	----------------

4.2.3 - Air transport infrastructure

Previous answer Cycle 2 (29/07/2011):

- Not relevant

Relevant	✕ Not relevant
----------	----------------

4.2.4 - Marine transport infrastructure

Previous answer Cycle 2 (29/07/2011):

- Not relevant

Relevant	✕ Not relevant
----------	----------------

4.2.5 - Effects arising from use of transportation infrastructure

Previous answer Cycle 2 (29/07/2011):

- Not relevant

Relevant	✕ Not relevant
----------	----------------

4.2.6 - Please comment as necessary on how the factors selected as relevant in 4.2 are affecting the property either negatively or positively

4.3. Services Infrastructures

4.3.1 - Water infrastructure

Previous answer Cycle 2 (29/07/2011):

- Relevant, Negative, Current, Inside

✕ Relevant	Not relevant						
	Impact		Origin		Trend of impact		
Impact	🔴 Current	🟡 Potential	🟢 Inside	🟢 Outside	📉 Decreasing	➡ Stable	📈 Increasing
🟢 Positive							
🔴 Negative ✕	✕		✕			➡	

4.3.2 - Renewable energy facilities

Previous answer Cycle 2 (29/07/2011):

- Not relevant

Relevant	✕ Not relevant
----------	----------------

4.3.3 - Non-renewable energy facilities

Previous answer Cycle 2 (29/07/2011):

- Relevant, Negative, Current, Inside

✕ Relevant	Not relevant						
	Impact		Origin		Trend of impact		
Impact	🔴 Current	🟡 Potential	🟢 Inside	🟢 Outside	📉 Decreasing	➡ Stable	📈 Increasing
🟢 Positive							
🔴 Negative ✕	✕		✕			➡	

4.3.4 - Localised utilities

Previous answer Cycle 2 (29/07/2011):

- Relevant, Negative, Current, Inside

✕ Relevant				Not relevant			
	Impact		Origin		Trend of impact		
Impact	🔥 Current	🔥 Potential	📍 Inside	📍 Outside	↘ Decreasing	→ Stable	↗ Increasing
🟢 Positive							
🔴 Negative ✕	✕		✕				↗

4.3.5 - Major linear utilities

Previous answer Cycle 2 (29/07/2011):

- Not relevant

Relevant	✕ Not relevant
----------	----------------

4.3.6 - Please comment as necessary on how the factors selected as relevant in 4.3 are affecting the property either negatively or positively

4.4. Pollution

4.4.1 - Pollution of marine waters

Previous answer Cycle 2 (29/07/2011):

- Relevant, Negative, Current, Outside

✕ Relevant				Not relevant			
	Impact		Origin		Trend of impact		
Impact	🔥 Current	🔥 Potential	📍 Inside	📍 Outside	↘ Decreasing	→ Stable	↗ Increasing
🟢 Positive							
🔴 Negative ✕	✕	✕		✕			↗

4.4.2 - Ground water pollution

Previous answer Cycle 2 (29/07/2011):

- Relevant, Negative, Potential, Inside

✕ Relevant				Not relevant			
	Impact		Origin		Trend of impact		
Impact	🔥 Current	🔥 Potential	📍 Inside	📍 Outside	↘ Decreasing	→ Stable	↗ Increasing
🟢 Positive							
🔴 Negative ✕	✕		✕			→	

4.4.3 - Surface water pollution

Previous answer Cycle 2 (29/07/2011):

- Not relevant

Relevant	✕ Not relevant
----------	----------------

4.4.4 - Air pollution

Previous answer Cycle 2 (29/07/2011):

- Not relevant

Relevant	✕ Not relevant
----------	----------------

4.4.5 - Solid waste

Previous answer Cycle 2 (29/07/2011):

- Not relevant

✕ Relevant				Not relevant			
	Impact		Origin		Trend of impact		
Impact	🔥 Current	🔥 Potential	📍 Inside	📍 Outside	↘ Decreasing	→ Stable	↗ Increasing

Positive							
Negative							

4.4.6 - Input of excess energy

Previous answer Cycle 2 (29/07/2011):

- Not relevant

Relevant	Not relevant
----------	--------------

4.4.7 - Please comment as necessary on how the factors selected as relevant in 4.4 are affecting the property either negatively or positively

4.4.1 Marine debris is regularly deposited on the Macquarie Island shoreline and continues to pose a risk to wildlife through either ingestion or entanglement. The amount of fishing related debris originating from distant waters would appear to be increasing.

4.5. Biological resource use/modification

4.5.1 - Fishing/collecting aquatic resources

Previous answer Cycle 2 (29/07/2011):

- Relevant, Negative, Potential, Outside

Relevant	Not relevant						
	Impact		Origin		Trend of impact		
Impact	Current	Potential	Inside	Outside	Decreasing	Stable	Increasing
Positive							
Negative							

4.5.2 - Aquaculture

Previous answer Cycle 2 (29/07/2011):

- Not relevant

Relevant	Not relevant
----------	--------------

4.5.3 - Land conversion

Previous answer Cycle 2 (29/07/2011):

- Not relevant

Relevant	Not relevant
----------	--------------

4.5.4 - Livestock farming/Grazing of domesticated animals

Previous answer Cycle 2 (29/07/2011):

- Not relevant

Relevant	Not relevant
----------	--------------

4.5.5 - Crop production

Previous answer Cycle 2 (29/07/2011):

- Not relevant

Relevant	Not relevant
----------	--------------

4.5.6 - Commercial wild plant collection

Previous answer Cycle 2 (29/07/2011):

- Not relevant

Relevant	Not relevant
----------	--------------

4.5.7 - Subsistence wild plant collection

Previous answer Cycle 2 (29/07/2011):

- Not relevant

Relevant	Not relevant
----------	--------------

4.5.8 - Commercial hunting

Previous answer Cycle 2 (29/07/2011):

- Not relevant

Relevant	Not relevant
----------	--------------

4.5.9 - Subsistence hunting

Previous answer Cycle 2 (29/07/2011):

- Not relevant

Relevant

✕ Not relevant

4.5.10 - Forestry/Wood production

Previous answer Cycle 2 (29/07/2011):

- Not relevant

Relevant

✕ Not relevant

4.5.11 - Please comment as necessary on how the factors selected as relevant in 4.5 are affecting the property either negatively or positively

4.6. Physical resource extraction

4.6.1 - Mining

Previous answer Cycle 2 (29/07/2011):

- Not relevant

Relevant

✕ Not relevant

4.6.2 - Quarrying

Previous answer Cycle 2 (29/07/2011):

- Not relevant

Relevant

✕ Not relevant

4.6.3 - Oil and gas

Previous answer Cycle 2 (29/07/2011):

- Not relevant

Relevant

✕ Not relevant

4.6.4 - Water (extraction)

Previous answer Cycle 2 (29/07/2011):

- Not relevant

Relevant

✕ Not relevant

4.6.5 - Please comment as necessary on how the factors selected as relevant in 4.6 are affecting the property either negatively or positively

4.7. Local conditions affecting physical fabric

4.7.1 - Wind

Previous answer Cycle 2 (29/07/2011):

- Not relevant

Relevant

✕ Not relevant

4.7.2 - Relative humidity

Previous answer Cycle 2 (29/07/2011):

- Not relevant

Relevant

✕ Not relevant

4.7.3 - Temperature

Previous answer Cycle 2 (29/07/2011):

- Not relevant

Relevant

✕ Not relevant

4.7.4 - Radiation/Light

Previous answer Cycle 2 (29/07/2011):

- Not relevant

Relevant

✕ Not relevant

4.7.5 - Dust

Previous answer Cycle 2 (29/07/2011):

- Not relevant

Relevant	✖ Not relevant
----------	----------------

4.7.6 - Water (rain/water table)

Previous answer Cycle 2 (29/07/2011):

- Not relevant

Relevant	✖ Not relevant
----------	----------------

4.7.7 - Pests

Previous answer Cycle 2 (29/07/2011):

- Relevant, Negative, Current, Potential, Inside, Outside

✖ Relevant	Not relevant						
	Impact		Origin		Trend of impact		
Impact	🔴 Current	🟡 Potential	🟢 Inside	🟢 Outside	📉 Decreasing	➡ Stable	📈 Increasing
➕ Positive							
➖ Negative ✖	✖	✖	✖	✖			

4.7.8 - Micro-organisms

Previous answer Cycle 2 (29/07/2011):

- Relevant, Negative, Potential, Outside

✖ Relevant	Not relevant						
	Impact		Origin		Trend of impact		
Impact	🔴 Current	🟡 Potential	🟢 Inside	🟢 Outside	📉 Decreasing	➡ Stable	📈 Increasing
➕ Positive							
➖ Negative ✖		✖		✖			

4.7.9 - Please comment as necessary on how the factors selected as relevant in 4.7 are affecting the property either negatively or positively

4.7.7 By 2014, all rabbits, black rats and house mice had been eradicated through the Macquarie Island Pest Eradication Project. Since that time there has been widespread recovery of both the islands' flora and many of the fauna species that had been impacted by rabbits and rodents. There are still four alien plant species, two alien bird species, and several non-native invertebrate species in the reserve which are subject to ongoing monitoring.

4.8. Social/Cultural uses of heritage

4.8.1 - Ritual/Spiritual/Religious and associative uses

Previous answer Cycle 2 (29/07/2011):

- Not relevant

Relevant	✖ Not relevant
----------	----------------

4.8.2 - Society's valuing of heritage

Previous answer Cycle 2 (29/07/2011):

- Relevant, Positive, Negative, Potential, Outside

✖ Relevant	Not relevant						
	Impact		Origin		Trend of impact		
Impact	🔴 Current	🟡 Potential	🟢 Inside	🟢 Outside	📉 Decreasing	➡ Stable	📈 Increasing
➕ Positive ✖		✖		✖			
➖ Negative							

4.8.3 - Indigenous hunting, gathering and collecting

Previous answer Cycle 2 (29/07/2011):

- Not relevant

Relevant	✖ Not relevant
----------	----------------

4.8.4 - Changes in traditional ways of life and knowledge system

Previous answer Cycle 2 (29/07/2011):

- Not relevant

Relevant

✕ Not relevant

4.8.5 - Identity, social cohesion, changes in local population and community

Previous answer Cycle 2 (29/07/2011):

- Not relevant

Relevant

✕ Not relevant










4.8.6 - Impacts of tourism/Visitation/Recreation

Previous answer Cycle 2 (29/07/2011):

- Relevant, Positive, Negative, Current, Potential, Outside

✕ Relevant

Not relevant

	Impact		Origin		Trend of impact		
Impact	 Current	 Potential	 Inside	 Outside	 Decreasing	 Stable	 Increasing
 Positive ✕	✕	✕		✕			
 Negative ✕	✕	✕		✕			

4.8.7 - Please comment as necessary on how the factors selected as relevant in 4.8 are affecting the property either negatively or positively

Positive impacts of educational tourism include: increasing public support for reserve conservation, scientific & management efforts; additional logistical support for management operations; and contributing income for reserve management. Negative impacts include: an increased risk of accidental introduction of alien species (particularly pathogens); some localised wildlife and habitat disturbance; and increased risk of environmental damage from shipping accidents or fuel spills.

4.9. Other human activities










4.9.1 - Illegal activities

Previous answer Cycle 2 (29/07/2011):

- Relevant, Negative, Current, Potential, Outside

✕ Relevant

Not relevant

	Impact		Origin		Trend of impact		
Impact	 Current	 Potential	 Inside	 Outside	 Decreasing	 Stable	 Increasing
 Positive							
 Negative ✕	✕	✕		✕			

4.9.2 - Deliberate destruction of heritage

Previous answer Cycle 2 (29/07/2011):

- Not relevant

Relevant

✕ Not relevant

4.9.3 - Military training

Previous answer Cycle 2 (29/07/2011):

- Not relevant

Relevant

✕ Not relevant

4.9.4 - War

Previous answer Cycle 2 (29/07/2011):

- Not relevant

Relevant

✕ Not relevant

4.9.5 - Terrorism

Previous answer Cycle 2 (29/07/2011):

- Not relevant

Relevant

✕ Not relevant

4.9.6 - Civil unrest

Previous answer Cycle 2 (29/07/2011):

- Not relevant

Relevant	✕ Not relevant
----------	----------------

4.9.7 - Please comment as necessary on how the factors selected as relevant in 4.9 are affecting the property either negatively or positively

4.9.1 Discarded fishing gear can result in wildlife entanglement causing injury or death. This material can also break down over time into material that can be ingested by marine fauna.

4.10. Climate change and severe weather events

4.10.1 - Storms

Previous answer Cycle 2 (29/07/2011):

- Not relevant

✕ Relevant	Not relevant
------------	--------------

	Impact		Origin		Trend of impact		
Impact	🔴 Current	🟡 Potential	🟢 Inside	🟢 Outside	📉 Decreasing	➡ Stable	📈 Increasing
🟢 Positive							
🔴 Negative ✕	✕	✕		✕			📈

4.10.2 - Flooding

Previous answer Cycle 2 (29/07/2011):

- Not relevant

✕ Relevant	Not relevant
------------	--------------

	Impact		Origin		Trend of impact		
Impact	🔴 Current	🟡 Potential	🟢 Inside	🟢 Outside	📉 Decreasing	➡ Stable	📈 Increasing
🟢 Positive							
🔴 Negative ✕	✕	✕		✕			📈

4.10.3 - Drought

Previous answer Cycle 2 (29/07/2011):

- Not relevant

✕ Relevant	Not relevant
------------	--------------

	Impact		Origin		Trend of impact		
Impact	🔴 Current	🟡 Potential	🟢 Inside	🟢 Outside	📉 Decreasing	➡ Stable	📈 Increasing
🟢 Positive							
🔴 Negative ✕	✕	✕		✕			📈

4.10.4 - Desertification

Previous answer Cycle 2 (29/07/2011):

- Not relevant

Relevant	✕ Not relevant
----------	----------------

4.10.5 - Changes to oceanic waters

Previous answer Cycle 2 (29/07/2011):

- Relevant, Negative, Potential, Outside

✕ Relevant	Not relevant
------------	--------------

	Impact		Origin		Trend of impact		
Impact	🔴 Current	🟡 Potential	🟢 Inside	🟢 Outside	📉 Decreasing	➡ Stable	📈 Increasing
🟢 Positive							
🔴 Negative ✕	✕	✕		✕			📈

4.10.6 - Temperature change

Previous answer Cycle 2 (29/07/2011):

- Relevant, Negative, Potential, Outside

✕ Relevant				Not relevant			
	Impact		Origin		Trend of impact		
Impact	🔥 Current	🔥 Potential	📍 Inside	📍 Outside	↘ Decreasing	→ Stable	↗ Increasing
➕ Positive							
➖ Negative ✕	✕	✕		✕			↗

4.10.7 - Other climate change impacts

Previous answer Cycle 2 (29/07/2011):

- Relevant, Negative, Potential, Outside

✕ Relevant				Not relevant			
	Impact		Origin		Trend of impact		
Impact	🔥 Current	🔥 Potential	📍 Inside	📍 Outside	↘ Decreasing	→ Stable	↗ Increasing
➕ Positive							
➖ Negative ✕	✕	✕		✕			

4.10.8 - Please comment as necessary on how the factors selected as relevant in 4.10 are affecting the property either negatively or positively

Measurable climate trends: less freezing days; increasing winter rainfall, max temps, sunshine hrs, wind speeds, frequency & severity of high intensity rainfall, storms, evapotranspiration & low rainfall periods, Impacts: Mirounga leonina pop. decline due to changing oceanic conditions perturbing prey availability; Azorella macquariensis dieback from changing rainfall and temps; in combination with rising sea levels - increased coastal erosion, landslips, wildlife breeding failure & flooding.

4.11. Sudden ecological or geological events

4.11.1 - Volcanic eruption

Previous answer Cycle 2 (29/07/2011):

- Not relevant

Relevant	✕ Not relevant
----------	----------------

4.11.2 - Earthquake

Previous answer Cycle 2 (29/07/2011):

- Not relevant

✕ Relevant				Not relevant			
	Impact		Origin		Trend of impact		
Impact	🔥 Current	🔥 Potential	📍 Inside	📍 Outside	↘ Decreasing	→ Stable	↗ Increasing
➕ Positive ✕		✕	✕			→	
➖ Negative							

4.11.3 - Tsunami/Tidal wave

Previous answer Cycle 2 (29/07/2011):

- Relevant, Negative, Potential, Outside

✕ Relevant				Not relevant			
	Impact		Origin		Trend of impact		
Impact	🔥 Current	🔥 Potential	📍 Inside	📍 Outside	↘ Decreasing	→ Stable	↗ Increasing
➕ Positive							
➖ Negative ✕		✕		✕			

4.11.4 - Avalanche/Landslide

Previous answer Cycle 2 (29/07/2011):

- Not relevant

Relevant	✕ Not relevant
----------	----------------

4.11.5 - Erosion and siltation/Deposition

Previous answer Cycle 2 (29/07/2011):

- Not relevant

✕ Relevant				Not relevant			
	Impact		Origin		Trend of impact		
Impact	🔴 Current	🟡 Potential	🟢 Inside	🟢 Outside	📉 Decreasing	➡ Stable	📈 Increasing
🟢 Positive							
🔴 Negative ✕		✕	✕				

4.11.6 - Fire (wildfire)

Previous answer Cycle 2 (29/07/2011):

- Not relevant

Relevant	✕ Not relevant
----------	----------------

4.11.7 - Please comment as necessary on how the factors selected as relevant in 4.11 are affecting the property either negatively or positively

4.11.3 Macquarie Island's geographical position and geomorphological composition result in low-lying areas of the island being susceptible to tsunamis wave propagation within the southern Pacific Ocean.

4.12. Invasive/alien species or hyper-abundant species

4.12.1 - Translocated species

Previous answer Cycle 2 (29/07/2011):

- Relevant, Negative, Potential, Outside

✕ Relevant				Not relevant			
	Impact		Origin		Trend of impact		
Impact	🔴 Current	🟡 Potential	🟢 Inside	🟢 Outside	📉 Decreasing	➡ Stable	📈 Increasing
🟢 Positive ✕		✕		✕			
🔴 Negative ✕		✕		✕			

4.12.2 - Invasive/Alien terrestrial species

Previous answer Cycle 2 (29/07/2011):

- Relevant, Negative, Current, Potential, Outside

✕ Relevant				Not relevant			
	Impact		Origin		Trend of impact		
Impact	🔴 Current	🟡 Potential	🟢 Inside	🟢 Outside	📉 Decreasing	➡ Stable	📈 Increasing
🟢 Positive							
🔴 Negative ✕	✕	✕		✕			

4.12.3 - Invasive/Alien freshwater species

Previous answer Cycle 2 (29/07/2011):

- Not relevant










✕ Relevant				Not relevant			
	Impact		Origin		Trend of impact		
Impact	🔴 Current	🟡 Potential	🟢 Inside	🟢 Outside	📉 Decreasing	➡ Stable	📈 Increasing
🟢 Positive							
🔴 Negative ✕		✕		✕			

4.12.4 - Invasive/Alien marine species

Previous answer Cycle 2 (29/07/2011):

- Relevant, Negative, Potential, Outside

✕ Relevant				Not relevant			
------------	--	--	--	--------------	--	--	--

	Impact		Origin		Trend of impact		
Impact	 Current	 Potential	 Inside	 Outside	 Decreasing	 Stable	 Increasing
 Positive							
 Negative ✕		✕		✕			

4.12.5 - Hyper-abundant species

Previous answer Cycle 2 (29/07/2011):

- Not relevant

Relevant	✕ Not relevant
----------	----------------

4.12.6 - Modified genetic material

Previous answer Cycle 2 (29/07/2011):

- Not relevant

Relevant	✕ Not relevant
----------	----------------










4.12.7 - Please comment as necessary on how the factors selected as relevant in 4.12 are affecting the property either negatively or positively

There are 4 alien plants, 2 alien birds, & several non-native invertebrate species. Climate change is likely to increase the risk of new invasive species being able to establish. A secondary pathogen is thought to be involved in the dieback of the endemic cushion plant *Azorella macquariensis*. There is potential to investigate translocation of analogous bird species to fill the niche left by the extinct endemic taxa (Macquarie rail & parakeet) which could result in positive ecosystem outcome.

4.13. Management and institutional factors










4.13.1 - Management system/Management plan

✕ Relevant	Not relevant
------------	--------------

	Impact		Origin		Trend of impact		
Impact	 Current	 Potential	 Inside	 Outside	 Decreasing	 Stable	 Increasing
 Positive ✕	✕			✕			
 Negative							










4.13.2 - Legal framework

✕ Relevant	Not relevant
------------	--------------

	Impact		Origin		Trend of impact		
Impact	 Current	 Potential	 Inside	 Outside	 Decreasing	 Stable	 Increasing
 Positive ✕	✕			✕			
 Negative							

4.13.3 - Governance

✕ Relevant	Not relevant
------------	--------------










	Impact		Origin		Trend of impact		
Impact	 Current	 Potential	 Inside	 Outside	 Decreasing	 Stable	 Increasing
 Positive ✕	✕			✕			
 Negative							

4.13.4 - Management activities

Previous answer Cycle 2 (29/07/2011):

- Relevant, Positive, Negative, Current, Potential, Inside, Outside

✕ Relevant	Not relevant
------------	--------------

	Impact		Origin		Trend of impact		
Impact	 Current	 Potential	 Inside	 Outside	 Decreasing	 Stable	 Increasing
 Positive ✕	✕	✕	✕	✕			
 Negative ✕		✕	✕	✕			

4.13.5 - Financial resources

✕ Relevant				Not relevant			
	Impact		Origin		Trend of impact		
Impact	 Current	 Potential	 Inside	 Outside	 Decreasing	 Stable	 Increasing
 Positive ✕	✕			✕			
 Negative							


4.13.6 - Human resources

✕ Relevant				Not relevant			
	Impact		Origin		Trend of impact		
Impact	 Current	 Potential	 Inside	 Outside	 Decreasing	 Stable	 Increasing
 Positive ✕	✕			✕			
 Negative							

4.13.7 - Low impact research/monitoring activities

Previous answer Cycle 2 (29/07/2011):


- Relevant, Positive, Current, Potential, Inside

✕ Relevant				Not relevant			
	Impact		Origin		Trend of impact		
Impact	 Current	 Potential	 Inside	 Outside	 Decreasing	 Stable	 Increasing
 Positive ✕	✕	✕	✕				
 Negative							

4.13.8 - High impact research/monitoring activities

Previous answer Cycle 2 (29/07/2011):

- Relevant, Negative, Potential, Inside

✕ Relevant				Not relevant			
	Impact		Origin		Trend of impact		
Impact	 Current	 Potential	 Inside	 Outside	 Decreasing	 Stable	 Increasing
 Positive							
 Negative ✕		✕	✕				

4.13.9 - Please comment as necessary on how the factors selected as relevant in 4.13 are affecting the property either negatively or positively









Ongoing low impact flora and fauna monitoring programs continue to provide surveillance on the island biodiversity and management of natural values. There are currently no high impact research or monitoring activities.

4.14. Other factor(s)

4.14.1 - Other factor(s)

4.15. Factors Summary Table

4.15.1 - Factors Summary Table

Name	Impact		Origin		Trend
4.1 Buildings and Development					
4.1.5 Interpretative and visitation facilities					
4.3 Services Infrastructures					
4.3.1 Water infrastructure					
					

4.3.3 Non-renewable energy facilities						
	⊖	⚠		⊕		→
4.3.4 Localised utilities						
	⊖	⚠		⊕		↗
4.4 Pollution						
4.4.1 Pollution of marine waters						
	⊖	⚠	⚠		↻	↗
4.4.2 Ground water pollution						
	⊖	⚠		⊕		→
4.4.5 Solid waste						
	⊖	⚠		⊕		→
4.5 Biological resource use/modification						
4.5.1 Fishing/collecting aquatic resources						
	⊖	⚠			↻	→
4.7 Local conditions affecting physical fabric						
4.7.7 Pests						
	⊖	⚠	⚠	⊕	↻	
4.7.8 Micro-organisms						
	⊖		⚠		↻	
4.8 Social/Cultural uses of heritage						
4.8.2 Society's valuing of heritage	⊕		⚠		↻	
4.8.6 Impacts of tourism/Visitation/Recreation	⊕	⚠	⚠		↻	
	⊖	⚠	⚠		↻	
4.9 Other human activities						
4.9.1 Illegal activities						
	⊖	⚠	⚠		↻	
4.10 Climate change and severe weather events						
4.10.1 Storms						
	⊖	⚠	⚠		↻	↗
4.10.2 Flooding						
	⊖	⚠	⚠		↻	↗
4.10.3 Drought						
	⊖	⚠	⚠		↻	↗
4.10.5 Changes to oceanic waters						
	⊖	⚠	⚠		↻	↗
4.10.6 Temperature change						
	⊖	⚠	⚠		↻	↗
4.10.7 Other climate change impacts						
	⊖	⚠	⚠		↻	
4.11 Sudden ecological or geological events						
4.11.2 Earthquake	⊕		⚠	⊕		→

4.11.3 Tsunami/Tidal wave						
	⊖		⚠		🔄	
4.11.5 Erosion and siltation/Deposition						
	⊖		⚠	🕒		
4.12 Invasive/alien species or hyper-abundant species						
4.12.1 Translocated species	⊕		⚠		🔄	
	⊖		⚠		🔄	
4.12.2 Invasive/Alien terrestrial species						
	⊖	⚠	⚠		🔄	
4.12.3 Invasive/Alien freshwater species						
	⊖		⚠		🔄	
4.12.4 Invasive/Alien marine species						
	⊖		⚠		🔄	
4.13 Management and institutional factors						
4.13.1 Management system/Management plan	⊕	⚠			🔄	
4.13.2 Legal framework	⊕	⚠			🔄	
4.13.3 Governance	⊕	⚠			🔄	
4.13.4 Management activities	⊕	⚠	⚠	🕒	🔄	
	⊖		⚠	🕒	🔄	
4.13.5 Financial resources	⊕	⚠			🔄	
4.13.6 Human resources	⊕	⚠			🔄	
4.13.7 Low impact research/monitoring activities	⊕	⚠	⚠	🕒		
4.13.8 High impact research/monitoring activities						
	⊖		⚠	🕒		
Legend ⚠ Current ⚠ Potential ⊖ Negative ⊕ Positive 🕒 Inside 🔄 Outside						

4.16. Assessment of current and potential positive and negative factors

4.16.1 - Assessment of current and potential negative and positive factors

4.1 Buildings and Development

Name	Impact	Origin	Trend
4.1.5 Interpretative and visitation facilities	⊕ ⚠	🕒	➡
Spatial scale - Area affected by the factor			
✕	Restricted		

	Localised
	Extensive
	Widespread
Temporal scale - Occurrence of the impact	
	One off or rare
	Intermittent or sporadic
	Frequent
✕	On-going
Impact - Impact on the attributes	
✕	Insignificant
	Minor
	Significant
	Major
Management response - Capacity of management to respond	
✕	High capacity
	Medium capacity
	Low capacity
	No capacity and / or resources
Trend - Development over the last 6 years	
	Decreasing
✕	Static
	Increasing

4.3 Services Infrastructures

Name	Impact			Origin		Trend
4.3.1 Water infrastructure						
	⊖	🚩		🕒		➡

Spatial scale - Area affected by the factor	
✕	Restricted
	Localised
	Extensive
	Widespread
Temporal scale - Occurrence of the impact	
	One off or rare
	Intermittent or sporadic
	Frequent
✕	On-going
Impact - Impact on the attributes	
✕	Insignificant
	Minor
	Significant
	Major

Management response - Capacity of management to respond	
<input checked="" type="checkbox"/>	High capacity
<input type="checkbox"/>	Medium capacity
<input type="checkbox"/>	Low capacity
<input type="checkbox"/>	No capacity and / or resources
Trend - Development over the last 6 years	
<input type="checkbox"/>	Decreasing
<input checked="" type="checkbox"/>	Static
<input type="checkbox"/>	Increasing

Name	Impact	Origin	Trend
4.3.3 Non-renewable energy facilities	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Spatial scale - Area affected by the factor	
<input checked="" type="checkbox"/>	Restricted
<input type="checkbox"/>	Localised
<input type="checkbox"/>	Extensive
<input type="checkbox"/>	Widespread

Temporal scale - Occurrence of the impact	
<input type="checkbox"/>	One off or rare
<input type="checkbox"/>	Intermittent or sporadic
<input type="checkbox"/>	Frequent
<input checked="" type="checkbox"/>	On-going

Impact - Impact on the attributes	
<input checked="" type="checkbox"/>	Insignificant
<input type="checkbox"/>	Minor
<input type="checkbox"/>	Significant
<input type="checkbox"/>	Major




Management response - Capacity of management to respond	
<input checked="" type="checkbox"/>	High capacity
<input type="checkbox"/>	Medium capacity
<input type="checkbox"/>	Low capacity
<input type="checkbox"/>	No capacity and / or resources
Trend - Development over the last 6 years	
<input type="checkbox"/>	Decreasing
<input checked="" type="checkbox"/>	Static
<input type="checkbox"/>	Increasing

Name	Impact	Origin	Trend
4.3.4 Localised utilities	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Spatial scale - Area affected by the factor	
---	--



✕	Restricted
	Localised
	Extensive
	Widespread
Temporal scale - Occurrence of the impact	
	One off or rare
	Intermittent or sporadic
	Frequent
✕	On-going
Impact - Impact on the attributes	
✕	Insignificant
	Minor
	Significant
	Major
Management response - Capacity of management to respond	
✕	High capacity
	Medium capacity
	Low capacity
	No capacity and / or resources
Trend - Development over the last 6 years	
	Decreasing
	Static
✕	Increasing

4.4 Pollution

Name	Impact			Origin		Trend
4.4.1 Pollution of marine waters						
						

Spatial scale - Area affected by the factor	
	Restricted
✕	Localised
	Extensive
	Widespread
Temporal scale - Occurrence of the impact	
	One off or rare
	Intermittent or sporadic
	Frequent
✕	On-going
Impact - Impact on the attributes	
✕	Insignificant
	Minor
	Significant

	Major
Management response - Capacity of management to respond	
	High capacity
	Medium capacity
✕	Low capacity
	No capacity and / or resources
Trend - Development over the last 6 years	
	Decreasing
	Static
✕	Increasing

Name	Impact	Origin	Trend
4.4.2 Ground water pollution			
	 		





Spatial scale - Area affected by the factor	
✕	Restricted
	Localised
	Extensive
	Widespread

Temporal scale - Occurrence of the impact	
✕	One off or rare
	Intermittent or sporadic
	Frequent
	On-going

Impact - Impact on the attributes	
✕	Insignificant
	Minor
	Significant
	Major




Management response - Capacity of management to respond	
	High capacity
✕	Medium capacity
	Low capacity
	No capacity and / or resources

Trend - Development over the last 6 years	
	Decreasing
✕	Static
	Increasing

Name	Impact	Origin	Trend
4.4.5 Solid waste			
	 		

Spatial scale - Area affected by the factor	
<input checked="" type="checkbox"/>	Restricted
<input type="checkbox"/>	Localised
<input type="checkbox"/>	Extensive
<input type="checkbox"/>	Widespread
Temporal scale - Occurrence of the impact	
<input checked="" type="checkbox"/>	One off or rare
<input type="checkbox"/>	Intermittent or sporadic
<input type="checkbox"/>	Frequent
<input type="checkbox"/>	On-going
Impact - Impact on the attributes	
<input checked="" type="checkbox"/>	Insignificant
<input type="checkbox"/>	Minor
<input type="checkbox"/>	Significant
<input type="checkbox"/>	Major
Management response - Capacity of management to respond	
<input type="checkbox"/>	High capacity
<input checked="" type="checkbox"/>	Medium capacity
<input type="checkbox"/>	Low capacity
<input type="checkbox"/>	No capacity and / or resources
Trend - Development over the last 6 years	
<input checked="" type="checkbox"/>	Decreasing
<input type="checkbox"/>	Static
<input type="checkbox"/>	Increasing





4.5 Biological resource use/modification

Name	Impact			Origin		Trend
4.5.1 Fishing/collecting aquatic resources						
						

Spatial scale - Area affected by the factor	
<input checked="" type="checkbox"/>	Restricted
<input type="checkbox"/>	Localised
<input type="checkbox"/>	Extensive
<input type="checkbox"/>	Widespread
Temporal scale - Occurrence of the impact	
<input type="checkbox"/>	One off or rare
<input type="checkbox"/>	Intermittent or sporadic
<input type="checkbox"/>	Frequent
<input checked="" type="checkbox"/>	On-going
Impact - Impact on the attributes	
<input checked="" type="checkbox"/>	Insignificant
<input type="checkbox"/>	Minor

	Significant
	Major
Management response - Capacity of management to respond	
✕	High capacity
	Medium capacity
	Low capacity
	No capacity and / or resources
Trend - Development over the last 6 years	
	Decreasing
✕	Static
	Increasing

4.7 Local conditions affecting physical fabric

Name	Impact			Origin		Trend
4.7.7 Pests						
						

Spatial scale - Area affected by the factor						
	Restricted					
	Localised					
✕	Extensive					
	Widespread					
Temporal scale - Occurrence of the impact						
	One off or rare					
	Intermittent or sporadic					
	Frequent					
✕	On-going					
Impact - Impact on the attributes						
	Insignificant					
✕	Minor					
	Significant					
	Major					
Management response - Capacity of management to respond						
	High capacity					
	Medium capacity					
✕	Low capacity					
	No capacity and / or resources					
Trend - Development over the last 6 years						
	Decreasing					
✕	Static					
	Increasing					

Name	Impact	Origin	Trend
------	--------	--------	-------

4.8 Social/Cultural uses of heritage

Macquarie Island

Impact - Impact on the attributes	
	Insignificant
✕	Minor
	Significant
	Major
Management response - Capacity of management to respond	
✕	High capacity
	Medium capacity
	Low capacity
	No capacity and / or resources
Trend - Development over the last 6 years	
	Decreasing
	Static
✕	Increasing

Name	Impact	Origin	Trend
4.8.6 Impacts of tourism/Visitation/Recreation	<div> <div>+</div> <div>👎</div> <div>👎</div> </div>	<div> <div></div> <div>🔄</div> </div>	
	<div> <div>-</div> <div>👎</div> <div>👎</div> </div>	<div> <div></div> <div>🔄</div> </div>	

Spatial scale - Area affected by the factor	
✕	Restricted
	Localised
	Extensive
	Widespread
Temporal scale - Occurrence of the impact	
	One off or rare
	Intermittent or sporadic
✕	Frequent
	On-going
Impact - Impact on the attributes	
✕	Insignificant
	Minor
	Significant
	Major
Management response - Capacity of management to respond	
✕	High capacity
	Medium capacity
	Low capacity
	No capacity and / or resources
Trend - Development over the last 6 years	
	Decreasing
	Static
✕	Increasing





4.9 Other human activities

Name		Impact			Origin		Trend
4.9.1 Illegal activities							
Spatial scale - Area affected by the factor							
<input checked="" type="checkbox"/>	Restricted						
	Localised						
	Extensive						
	Widespread						
Temporal scale - Occurrence of the impact							
	One off or rare						
<input checked="" type="checkbox"/>	Intermittent or sporadic						
	Frequent						
	On-going						
Impact - Impact on the attributes							
<input checked="" type="checkbox"/>	Insignificant						
	Minor						
	Significant						
	Major						
Management response - Capacity of management to respond							
	High capacity						
<input checked="" type="checkbox"/>	Medium capacity						
	Low capacity						
	No capacity and / or resources						
Trend - Development over the last 6 years							
	Decreasing						
<input checked="" type="checkbox"/>	Static						
	Increasing						

4.10 Climate change and severe weather events






Name		Impact			Origin		Trend
4.10.1 Storms							
Spatial scale - Area affected by the factor							
<input checked="" type="checkbox"/>	Restricted						
	Localised						
	Extensive						
	Widespread						
Temporal scale - Occurrence of the impact							
	One off or rare						

✕	Intermittent or sporadic
	Frequent
	On-going
Impact - Impact on the attributes	
✕	Insignificant
	Minor
	Significant
	Major
Management response - Capacity of management to respond	
	High capacity
	Medium capacity
✕	Low capacity
	No capacity and / or resources
Trend - Development over the last 6 years	
	Decreasing
	Static
✕	Increasing

Name	Impact			Origin		Trend
4.10.2 Flooding						
						

Spatial scale - Area affected by the factor	
	Restricted
✕	Localised
	Extensive
	Widespread
Temporal scale - Occurrence of the impact	
	One off or rare
✕	Intermittent or sporadic
	Frequent
	On-going
Impact - Impact on the attributes	
	Insignificant
✕	Minor
	Significant
	Major
Management response - Capacity of management to respond	
	High capacity
	Medium capacity
✕	Low capacity
	No capacity and / or resources
Trend - Development over the last 6 years	

	Decreasing
	Static
✕	Increasing

Name	Impact	Origin	Trend
4.10.3 Drought			
			
			

Spatial scale - Area affected by the factor

	Restricted
✕	Localised
	Extensive
	Widespread

Temporal scale - Occurrence of the impact

	One off or rare
✕	Intermittent or sporadic
	Frequent
	On-going

Impact - Impact on the attributes




	Insignificant
	Minor
✕	Significant
	Major

Management response - Capacity of management to respond

	High capacity
	Medium capacity
✕	Low capacity
	No capacity and / or resources

Trend - Development over the last 6 years

	Decreasing
	Static
✕	Increasing

Name	Impact	Origin	Trend
4.10.5 Changes to oceanic waters			
			
			






Spatial scale - Area affected by the factor

	Restricted
✕	Localised
	Extensive
	Widespread

Temporal scale - Occurrence of the impact

	One off or rare
--	-----------------

	Intermittent or sporadic
	Frequent
✕	On-going
Impact - Impact on the attributes	
	Insignificant
✕	Minor
	Significant
	Major
Management response - Capacity of management to respond	
	High capacity
	Medium capacity
	Low capacity
✕	No capacity and / or resources
Trend - Developement over the last 6 years	
	Decreasing
✕	Static
	Increasing

Name	Impact			Origin		Trend
4.10.6 Temperature change						
						

Spatial scale - Area affected by the factor	
	Restricted
	Localised
	Extensive
✕	Widespread
Temporal scale - Occurence of the impact	
	One off or rare
	Intermittent or sporadic
	Frequent
✕	On-going
Impact - Impact on the attributes	
	Insignificant
✕	Minor
	Significant
	Major
Management response - Capacity of management to respond	
	High capacity
	Medium capacity
	Low capacity
✕	No capacity and / or resources
Trend - Developement over the last 6 years	

	Decreasing
	Static
✕	Increasing

Name	Impact	Origin	Trend
4.10.7 Other climate change impacts			
	<div> <div></div> <div></div> <div></div> </div>	<div> <div></div> <div></div> </div>	<div> <div></div> <div></div> </div>

Spatial scale - Area affected by the factor	
	Restricted
	Localised
	Extensive
✕	Widespread

Temporal scale - Occurrence of the impact	
	One off or rare
	Intermittent or sporadic
	Frequent
✕	On-going

Impact - Impact on the attributes	
	Insignificant
✕	Minor
	Significant
	Major

Management response - Capacity of management to respond	
	High capacity
	Medium capacity
✕	Low capacity
	No capacity and / or resources

Trend - Development over the last 6 years	
	Decreasing
	Static
✕	Increasing

4.11 Sudden ecological or geological events

Name	Impact	Origin	Trend
4.11.2 Earthquake	<div> <div></div> <div></div> <div></div> </div>	<div> <div></div> <div></div> </div>	<div> <div></div> <div></div> </div>
	<div> <div></div> <div></div> <div></div> </div>	<div> <div></div> <div></div> </div>	<div> <div></div> <div></div> </div>

Spatial scale - Area affected by the factor	
	Restricted
	Localised
	Extensive
✕	Widespread



Temporal scale - Occurrence of the impact	
---	--

	One off or rare
✕	Intermittent or sporadic
	Frequent
	On-going
Impact - Impact on the attributes	
	Insignificant
✕	Minor
	Significant
	Major
Management response - Capacity of management to respond	
	High capacity
	Medium capacity
	Low capacity
✕	No capacity and / or resources
Trend - Development over the last 6 years	
	Decreasing
✕	Static
	Increasing

Name	Impact	Origin	Trend
4.11.3 Tsunami/Tidal wave			
	⊖	📌	🔄

Spatial scale - Area affected by the factor	
	Restricted
✕	Localised
	Extensive
	Widespread
Temporal scale - Occurrence of the impact	
✕	One off or rare
	Intermittent or sporadic
	Frequent
	On-going
Impact - Impact on the attributes	
	Insignificant
	Minor
✕	Significant
	Major
Management response - Capacity of management to respond	
	High capacity
	Medium capacity
	Low capacity
✕	No capacity and / or resources

Trend - Development over the last 6 years	
	Decreasing
✕	Static
	Increasing

Name	Impact			Origin		Trend
4.11.5 Erosion and siltation/Deposition						
						

Spatial scale - Area affected by the factor	
	Restricted
✕	Localised
	Extensive
	Widespread







Temporal scale - Occurrence of the impact	
	One off or rare
✕	Intermittent or sporadic
	Frequent
	On-going

Impact - Impact on the attributes	
	Insignificant
✕	Minor
	Significant
	Major

Management response - Capacity of management to respond	
	High capacity
	Medium capacity
✕	Low capacity
	No capacity and / or resources




Trend - Development over the last 6 years	
	Decreasing
	Static
✕	Increasing

4.12 Invasive/alien species or hyper-abundant species

Name	Impact			Origin		Trend
4.12.1 Translocated species						
						




Spatial scale - Area affected by the factor	
	Restricted
✕	Localised
	Extensive
	Widespread

Temporal scale - Occurrence of the impact	
	One off or rare
	Intermittent or sporadic
	Frequent
✕	On-going
Impact - Impact on the attributes	
	Insignificant
✕	Minor
	Significant
	Major
Management response - Capacity of management to respond	
	High capacity
	Medium capacity
✕	Low capacity
	No capacity and / or resources
Trend - Development over the last 6 years	
	Decreasing
	Static
✕	Increasing

Name	Impact			Origin		Trend
4.12.2 Invasive/Alien terrestrial species						
						

Spatial scale - Area affected by the factor	
	Restricted
	Localised
✕	Extensive
	Widespread
Temporal scale - Occurrence of the impact	
	One off or rare
	Intermittent or sporadic
	Frequent
✕	On-going
Impact - Impact on the attributes	
	Insignificant
✕	Minor
	Significant
	Major
Management response - Capacity of management to respond	
	High capacity
	Medium capacity
✕	Low capacity

	No capacity and / or resources
Trend - Development over the last 6 years	
	Decreasing
✕	Static
	Increasing

Name	Impact	Origin	Trend
4.12.3 Invasive/Alien freshwater species			
			



Spatial scale - Area affected by the factor	
✕	Restricted
	Localised
	Extensive
	Widespread

Temporal scale - Occurrence of the impact	
✕	One off or rare
	Intermittent or sporadic
	Frequent
	On-going

Impact - Impact on the attributes	
✕	Insignificant
	Minor
	Significant
	Major

Management response - Capacity of management to respond	
	High capacity
	Medium capacity
✕	Low capacity
	No capacity and / or resources




Trend - Development over the last 6 years	
	Decreasing
✕	Static
	Increasing

Name	Impact	Origin	Trend
4.12.4 Invasive/Alien marine species			
			

Spatial scale - Area affected by the factor	
	Restricted
✕	Localised
	Extensive
	Widespread




Temporal scale - Occurrence of the impact	
	One off or rare
	Intermittent or sporadic
	Frequent
✕	On-going
Impact - Impact on the attributes	
✕	Insignificant
	Minor
	Significant
	Major
Management response - Capacity of management to respond	
	High capacity
	Medium capacity
	Low capacity
✕	No capacity and / or resources
Trend - Development over the last 6 years	
	Decreasing
✕	Static
	Increasing

4.13 Management and institutional factors

Name	Impact			Origin		Trend
4.13.1 Management system/Management plan						

Spatial scale - Area affected by the factor	
	Restricted
	Localised
	Extensive
✕	Widespread
Temporal scale - Occurrence of the impact	
	One off or rare
	Intermittent or sporadic
	Frequent
✕	On-going
Impact - Impact on the attributes	
	Insignificant
	Minor
	Significant
✕	Major
Management response - Capacity of management to respond	
✕	High capacity
	Medium capacity

	Low capacity
	No capacity and / or resources
Trend - Development over the last 6 years	
	Decreasing
✕	Static
	Increasing

Name	Impact			Origin	Trend
4.13.2 Legal framework					


Spatial scale - Area affected by the factor	
	Restricted
	Localised
	Extensive
✕	Widespread

Temporal scale - Occurrence of the impact	
	One off or rare
	Intermittent or sporadic
	Frequent
✕	On-going

Impact - Impact on the attributes	
	Insignificant
	Minor
	Significant
✕	Major

Management response - Capacity of management to respond	
✕	High capacity
	Medium capacity
	Low capacity
	No capacity and / or resources

Trend - Development over the last 6 years	
	Decreasing
✕	Static
	Increasing

Name	Impact			Origin	Trend
4.13.3 Governance					




Spatial scale - Area affected by the factor	
	Restricted
	Localised
	Extensive

✕	Widespread
Temporal scale - Occurrence of the impact	
	One off or rare
	Intermittent or sporadic
	Frequent
✕	On-going
Impact - Impact on the attributes	
	Insignificant
	Minor
	Significant
✕	Major
Management response - Capacity of management to respond	
✕	High capacity
	Medium capacity
	Low capacity
	No capacity and / or resources
Trend - Development over the last 6 years	
	Decreasing
✕	Static
	Increasing

Name	Impact			Origin		Trend
4.13.4 Management activities						

Spatial scale - Area affected by the factor	
	Restricted
	Localised
	Extensive
✕	Widespread
Temporal scale - Occurrence of the impact	
	One off or rare
	Intermittent or sporadic
	Frequent
✕	On-going
Impact - Impact on the attributes	
✕	Insignificant
	Minor
	Significant
	Major
Management response - Capacity of management to respond	
✕	High capacity
	Medium capacity

	Low capacity
	No capacity and / or resources
Trend - Development over the last 6 years	
	Decreasing
✕	Static
	Increasing

Name	Impact			Origin	Trend
4.13.5 Financial resources					



Spatial scale - Area affected by the factor	
	Restricted
	Localised
	Extensive
✕	Widespread

Temporal scale - Occurrence of the impact	
	One off or rare
	Intermittent or sporadic
	Frequent
✕	On-going

Impact - Impact on the attributes	
	Insignificant
	Minor
✕	Significant
	Major





Management response - Capacity of management to respond	
✕	High capacity
	Medium capacity
	Low capacity
	No capacity and / or resources

Trend - Development over the last 6 years	
	Decreasing
✕	Static
	Increasing

Name	Impact			Origin	Trend
4.13.6 Human resources					




Spatial scale - Area affected by the factor	
	Restricted
	Localised
	Extensive

✕	Widespread
Temporal scale - Occurrence of the impact	
	One off or rare
	Intermittent or sporadic
	Frequent
✕	On-going
Impact - Impact on the attributes	
	Insignificant
	Minor
✕	Significant
	Major
Management response - Capacity of management to respond	
✕	High capacity
	Medium capacity
	Low capacity
	No capacity and / or resources
Trend - Development over the last 6 years	
	Decreasing
✕	Static
	Increasing

Name	Impact			Origin		Trend
4.13.7 Low impact research/monitoring activities						

Spatial scale - Area affected by the factor	
	Restricted
	Localised
✕	Extensive
	Widespread
Temporal scale - Occurrence of the impact	
	One off or rare
	Intermittent or sporadic
	Frequent
✕	On-going
Impact - Impact on the attributes	
✕	Insignificant
	Minor
	Significant
	Major
Management response - Capacity of management to respond	
✕	High capacity
	Medium capacity

	Low capacity
	No capacity and / or resources
Trend - Development over the last 6 years	
	Decreasing
✕	Static
	Increasing

Name	Impact	Origin	Trend
4.13.8 High impact research/monitoring activities			
			

Spatial scale - Area affected by the factor	
	Restricted
	Localised
✕	Extensive
	Widespread
Temporal scale - Occurrence of the impact	
	One off or rare
✕	Intermittent or sporadic
	Frequent
	On-going
Impact - Impact on the attributes	
✕	Insignificant
	Minor
	Significant
	Major
Management response - Capacity of management to respond	
✕	High capacity
	Medium capacity
	Low capacity
	No capacity and / or resources
Trend - Development over the last 6 years	
	Decreasing
✕	Static
	Increasing

4.17. Serial inscriptions (national or transnational)

4.17.1 - If your property is a serial inscription (national or transnational) please identify which components of the property are impacted by each factor

4.18. Prediction of the state of conservation at next cycle of Periodic Reporting.

4.18.1 - Please predict what the state of conservation of each attribute will be approximately 6 years from now (at the time of the next cycle of Periodic Reporting)

	Attribute	Preserved	Compromised	Seriously compromised	Lost
4.18.1.1	Outstanding spectacle of wild, natural beauty	✕			
4.18.1.2	Extensive peat beds	✕			

4.18.1.3	Dramatic changes in vegetation cover due to climatic conditions		×		
4.18.1.4	Vast congregations of wildlife	×			
4.18.1.5	Unique geological features associated with oceanic crust formation	×			

5. Protection and Management of the Property

5.1. Boundaries and Buffer Zones

5.1.1 - Are the boundaries of the World Heritage property adequate to maintain the property's Outstanding Universal Value?

The boundaries are **adequate to maintain** the property's Outstanding Universal Value

5.1.2 - Are the boundaries of the World Heritage property known and recognised?

The boundaries **are known by both** the management authority and local communities/landowners

5.1.3 - Are the buffer zone(s) of the World Heritage property adequate to maintain the property's Outstanding Universal Value?

The property has **no buffer zone** and **does not need one**

5.1.4 - Are the boundaries of the buffer zones known and recognised?

The property has **no known and recognised** buffer zone

5.1.5 - Comments, conclusions and/or recommendations related to boundaries and buffer zones of the World Heritage property

5.2. Protective Measures

5.2.1 - Protective designation (legal, regulatory, contractual, planning, institutional and/or traditional).

Macquarie Island itself and the nearby Bishop and Clerk Islets and Judge and Clerk Islets, adjacent seastacks and reefs to the low water mark, have been declared a State Reserve with the name "Macquarie Island Nature Reserve" under Tasmanian legislation (National Parks and Wildlife Act 1970) (Statutory Rules 1972, No. 152 and 1978, No. 121).

The marine area to the 3 nautical mile limit is vested in Tasmania under the Seas and Submerged Lands Act 1972 and that between 3 and 12 nautical miles is vested in the Commonwealth of Australia under the Seas and Submerged Lands Act 1972.

All World Heritage properties in Australia are 'matters of national environmental significance' protected and managed under national legislation, the Environment Protection and Biodiversity Conservation Act 1999. By law, any action that has, will have or is likely to have a significant impact on the World Heritage values of a World Heritage property must be referred to the responsible Minister for consideration. This includes impacts originating from outside the property boundary.

Source: Periodic Reporting Cycle 2

5.2.2 - Please list any legislation and other measures (regulatory -including spatial planning- contractual, institutional or traditional) not included in 5.2.1 and indicate the category

2002 / National Parks and Reserves Management Act 2002 /
<https://www.legislation.tas.gov.au/2002/>

Nature Conservation Act 2002 /
<https://www.legislation.tas.gov.au/2019/> / National Parks and Reserves Management Regulations 2019 /

<https://www.legislation.tas.gov.au>

5.2.3 - Is the legal framework (i.e. legislation and/or regulation including spatial planning) adequate for maintaining the Outstanding Universal Value including conditions of Integrity and/or Authenticity of the property?

The **legal framework** for maintaining of the Outstanding Universal Value including conditions of Authenticity and/or Integrity of the World Heritage property provides an **adequate basis for effective management and protection**

5.2.4 - Is the legal framework (i.e. legislation and/or regulation) adequate in the buffer zone for maintaining the Outstanding Universal Value including conditions of Integrity and/or Authenticity of the property?

The property has **no buffer zone**

5.2.5 - Is the legal framework (i.e. legislation and/or regulation) in the broader setting of the World Heritage property adequate for maintaining the Outstanding Universal Value including conditions of Integrity and/or Authenticity of the property?

The **legal framework** for the broader setting of the World Heritage property provides an **adequate basis for** effective management and protection of the property, contributing to the maintenance of its Outstanding Universal Value including conditions of Authenticity and/or Integrity

5.2.6 - Can the legal framework (i.e. legislation and/or regulation) be enforced?

There is **adequate capacity/resources** to enforce legislation and/or regulation in the World Heritage property

5.2.7 - Please provide a short summary of how the legislation, including spatial planning and other regulation, works in practice

Macquarie Island is a Nature Reserve under the Nature Conservation Act 2002. The Macquarie Island Nature Reserve and World Heritage Area Management Plan 2006 outlines the management direction of the Reserve and has resulted in 3 management zones being created in order to regulate human activities over the Reserve. The Reserve is a restricted area under the National Parks and Reserves Management Regulations 2019 and all visitors must have an access authority to enter or remain in the Reserve.

5.2.8 - Comments, conclusions and/or recommendations about the information related to the measures taken to protect the World

Heritage property

5.3. Management System/Management Plan

5.3.1 - Please check the box which most closely match the character of the governance and management system of the property

Public management system at provincial/regional level

If 'Other', please specify

5.3.2 - Management System: Please indicate which of the various management tools listed below are used to help protect the property.

A statutory Management Plan or zoning plan for the property.

Other forms of statutory or non-statutory plans (e.g. strategic plans)

Agreed 'Memorandums of Understanding' between different managing institutions, groups or others, including documents agreed with local communities for management

An integrated management plan combining World Heritage and any other designations

A management plan

An annual work plan or business plan

5.3.3 - Please give a brief description of the management system currently in place at your property

Macquarie Island is a Nature Reserve under the Nature Conservation Act 2002. The Macquarie Island Nature Reserve and World Heritage Area Management Plan 2006 outlines the management direction of the Reserve and has resulted in 3 management zones being created in order to regulate human activities over the Reserve. The Reserve is a restricted area under the National Parks and Reserves Management Regulations 2019 and all visitors must have an access authority to enter or remain in the Reserve.

5.3.4 - Management Documents

Title	Status	Available	Date	Link to source
Macquarie Island Nature Reserve and World Heritage Area Management Plan 2006	In Force	Available	2006	

Comment

The Macquarie Island Nature Reserve and World Heritage Area Management Plan 2006 can be found at: [https://parks.tas.gov.au/Documents/Macquarie Island Nature Reserve and World Heritage Area Management Plan 2006.pdf](https://parks.tas.gov.au/Documents/Macquarie%20Island%20Nature%20Reserve%20and%20World%20Heritage%20Area%20Management%20Plan%202006.pdf)

5.3.5 - Has any use been made of the 2011 Recommendation on the Historic Urban Landscape in developing policies and best practices for the protection of this property?

No use has been made of the 2011 Recommendation on the Historic Urban Landscape

5.3.6 - If the Historic Urban Landscape Recommendation has been used at this property, please describe briefly what has been done.

5.3.7 - Has any use been made of the Policy Document on the Impacts of Climate Change on World Heritage Properties at the property?

No use has been made of the World Heritage Policy for Climate Change

5.3.8 - If the Climate Change policy has been used, please briefly describe what has been done along with any research on the impacts of Climate Change on the property:

5.3.9 - Has any use been made of the Strategy for Reducing Risks from Disasters at World Heritage Properties at the property ?

No use has been made of the Strategy for Reducing Risks from Disasters at World Heritage Properties

5.3.10 - If the Strategy for Reducing Risks from Disasters at World Heritage Properties has been used, please briefly describe what has been done

5.3.11 - Rate the coordination between the various levels of administration (i.e. national/federal; regional/provincial/state; local/municipal etc.) involved in the management of the World Heritage property

There is adequate coordination between all bodies/levels involved in the management of the property

5.3.12 - Is the management system/plan adequate to maintain the property's Outstanding Universal Value?

The management system/plan is fully adequate to maintain the property's Outstanding Universal Value

5.3.13 - Is the management system being implemented?

The management system is being fully implemented and monitored

5.3.14 - Is there an annual work/action plan and is it being implemented?

An annual work/action plan exists and all of its activities are being implemented and monitored

5.3.15 - Does the management system include formal mechanisms and procedures that ensure participation and contribution of the following groups, living within or near the World Heritage property and/or buffer zone in management decisions that maintain the Outstanding Universal Value of the property?

		Not applicable	No mechanisms for participation	Some participation	Direct participation	Transformative participation in all relevant decision processes
--	--	----------------	---------------------------------	--------------------	----------------------	---

5.3.15.1	Local communities	✕				
5.3.15.2	Local authorities			✕		
5.3.15.3	Landowners in the property and the buffer zone	✕				
5.3.15.4	Indigenous peoples	✕				
5.3.15.5	Women	✕				
5.3.15.6	Other specific groups	✕				
	If you selected, 'Other specific groups' please specify					

5.3.16 - Please rate the cooperation/relationship between the World Heritage property managers/coordinators/staff and the following groups

		Not applicable	Non-existent	Poor	Fair	Good
5.3.16.1	Local communities	✕				
5.3.16.2	Local/Municipal authorities				✕	
5.3.16.3	Indigenous peoples	✕				
5.3.16.4	Landowners	✕				
5.3.16.5	Women	✕				
5.3.16.6	Youth/Children	✕				
5.3.16.7	Researchers					✕
5.3.16.8	Local Visitors/Tourists	✕				
5.3.16.9	National/International tourists					✕
5.3.16.10	Tourism Industry				✕	
5.3.16.11	Local businesses and industries				✕	
5.3.16.12	NGOs				✕	
5.3.16.13	Other specific groups	✕				
	If you selected 'Other specific groups', please specify					

5.3.17 - Please rate the extent to which the management system of your property contributes towards achieving the objectives of the World Heritage Committee's Policy for the Integration of a Sustainable Development Perspective into the Processes of the *World Heritage Convention*

		Not applicable	No contribution	Limited	Significant	Full achievement
5.3.17.1	The management system of the property contributes to gender equality	✕				
5.3.17.2	The management system of the property provides ecosystem services/benefits to the local community (e.g. fresh air, water, food, medicinal plants)	✕				
5.3.17.3	The management system of the property contributes to social inclusion and equity, improving opportunities for all, irrespective of age, sex, disability, ethnicity, origin, religion or economic or other status	✕				
5.3.17.4	The management system of the property integrates a human rights-based approach	✕				
5.3.17.5	The management system of the property contributes to fostering inclusive local economic development, and to enhancing livelihood	✕				
5.3.17.6	The management system of the property contributes to conflict prevention, including respect for cultural diversity within and around the World Heritage property	✕				

5.3.18 - Please provide further details on the ratings of the management system given in the table above

5.3.19 - Comments, conclusions and/or recommendations related to the management system/plan

6. Financial and Human Resources

6.1. Funding

6.1.1 - If your funding sources do not exactly fit those shown, put the relevant amounts against the funding type that most closely represents your situation, and use the comment box below to provide more details.

		Project costs	Running costs
6.1.1.1	Multilateral funding (GEF, World Bank, etc.)	0 %	0 %
6.1.1.2	Bilateral international funding	0 %	0 %
6.1.1.3	World Heritage Fund (International Assistance)	0 %	0 %
6.1.1.4	Contribution from other conventions and programmes	0 %	0 %
6.1.1.5	International donations (NGOs, foundations, etc.)	0 %	0 %
6.1.1.6	Governmental (national/federal)	0 %	0 %
6.1.1.7	Governmental (regional/provincial/state)	0 %	0 %
6.1.1.8	Governmental (local/municipal)	0 %	0 %
6.1.1.9	In-country donations (NGOs, foundations, etc.)	0 %	0 %
6.1.1.10	Individual visitor charges (e.g. entry, toilets, parking, camping fees, etc.)	0 %	0 %
6.1.1.11	Commercial activities (e.g. merchandising and catering, filming permit, concessions, etc.)	0 %	0 %
6.1.1.12	Other	0 %	0 %
		Total 0 %	Total 0 %

6.1.2 - Please comment here on any other aspects of funding sources not covered in the table above

Australia cannot provide the requested data for 6.1, as funding is spread across a large number of different programs and priorities which may have multiple benefits for particular properties. That is, it is not possible to disaggregate the funding component attributed to each property. Funding comes from the State and Commonwealth Government and Individual visitor charges.

6.1.3 - Is the current budget sufficient to manage the World Heritage property effectively?

The available budget is adequate for effective management of the World Heritage property

6.1.4 - Are the existing sources of funding secure and likely to remain so?

The existing sources of funding are secure over both the medium- and long-term

6.1.5 - Comments, conclusion, and/or recommendations related to finance and infrastructure

6.1.6 - Estimate the distribution of men and women involved in the management, conservation, interpretation of the World Heritage properties and the extent to which they are drawn from local communities.

		From local communities %	From elsewhere %
6.1.6.1	Men	38 %	0 %
6.1.6.2	Women	62 %	100 %
		Total 100 %	Total 100 %

6.1.7 - Are available human resources adequate to manage the World Heritage property?

Human resources are adequate for management needs

6.1.8 - Considering the management needs of the World Heritage property, please rate the availability of professionals in the following disciplines

Conservation	Good
Environmental sustainability	Good
Community participation and inclusion	Good
Risk preparedness	Good
Capacity development and education	Good
Administration	Good
Research and monitoring	Good
Awareness raising and public information/communication	Good
Marketing and promotion	Good
Interpretation	Good
Visitor management/tourism	Good
Enforcement (custodians, police)	Good

6.1.9 - Please rate the availability of training opportunities for the management of the World Heritage property in the following disciplines

Conservation	Good
Environmental sustainability	Good
Community participation and inclusion	Good
Risk preparedness	Good
Capacity development and education	Good
Administration	Good
Research and monitoring	Good
Awareness raising and public information/communication	Good
Marketing and promotion	Good
Interpretation	Good
Visitor management/tourism	Good
Enforcement (custodians, police)	Good

6.1.10 - Has any use been made of the World Heritage Strategy for Capacity Building at the property?

No use has been made of the World Heritage Strategy for Capacity Building

6.1.11 - If the World Heritage Strategy for Capacity Building has been used, please briefly describe what has been done.

6.1.12 - Are there site-specific capacity building plans or programmes that develop local expertise and that contribute to the transfer of skills for the conservation and management of the World Heritage property?

There is **no site-based** capacity building plan or programme in place; management is implemented by external staff and skills are not transferred

6.1.13 - Comments, conclusions and/or recommendations related to human resources, expertise and training

7. Scientific Studies and Research Projects

7.1 - Is there adequate knowledge (scientific or traditional) about the values and attributes of the World Heritage property to support planning, management and decision-making to ensure that Outstanding Universal Value is maintained?

Knowledge about the values and attributes of the World Heritage property is **acceptable** for most key areas but there are gaps

7.2 - Is there a planned programme of research at the property which is directed towards management needs and/or improving understanding of Outstanding Universal Value?

There is **considerable research** but it is **not directed towards management needs and/or improving understanding of Outstanding Universal Value**

7.3 - Are results from research programmes publicly available and disseminated?

Research results **are shared** widely with **active outreach** to local communities and national and international audiences

7.4 - Comments, conclusions and/or recommendations related to scientific studies and research projects

8. Education, Information and Awareness Building

8.1 - Please rate the awareness and understanding of the existence and justification for inscription of the World Heritage property amongst the following groups

Local communities	Not applicable
Local/municipal authorities	Not applicable
Indigenous peoples	Not applicable
Landowners	Not applicable
Women	Fair
Youth/children	Fair
Researchers	Good
Local visitors	Not applicable
National/international tourists	Good
Tourism industry	Good

Local businesses and industries	Fair
NGOs	Fair
Other specific groups	Not applicable
If you selected 'Other specific groups', please describe	

8.2 - Does the property have a heritage education programme(s) for children and/or youth, that can contribute to a better understanding of heritage, promote diversity and foster intercultural dialogue?

There is **no need** for an education and awareness programme for children and/or youth

8.3 - Who are the target audiences for education and awareness programmes at your property?

Researchers
National/international tourists
Tourism industry

8.4 - Please rate the adequacy of the following visitor facilities and services at the World Heritage property for education, information, interpretation and awareness building

Visitor centre	Not provided but needed
Site museum	Not provided but needed
Information booths	Not needed
Guided tours	Good
Trails/routes	Good
Printed information materials	Good
Online (website, social media, etc.)	Fair
Transportation facilities	Not needed
Other	Not needed
If 'Other' is selected, please specify	

8.5 - Comments, conclusions and/or recommendations related to education, information and awareness building

9. Visitor Management

9.1 - Please provide estimated annual visitor numbers (including national and international visitors) since the last Periodic Report

1074 / 540 / 623 / 770 / 567 /

9.2 - What information sources are used to collect visitor statistics?

Entry tickets and registries

9.3 - What is the average length stay of a visitor to the World Heritage property?

Two overnight stays

9.4 - Please provide the source of information

Visitor entry approvals

9.5 - What is the approximate average daily visitor expenditure? (Please provide an estimated monetary figure in USD)

275.33 /

9.6 - Please provide the source of information

Visitor entry approvals

9.7 - Does the management system/plan for the World Heritage property include a strategy with an action plan to manage visitors, tourism activity and its derived economic, socio-cultural and environmental impacts?

There is a planned and **effective strategy** to manage visitors, tourism activity and its derived impacts on the World Heritage property

9.8 - Please provide any comments relating to the answer provided above in question 9.7

9.9 - Is visitor use effectively managed to maintain the Outstanding Universal Value of the property?

Visitor use of the World Heritage property is **effectively managed** and does not impact its Outstanding Universal Value

9.10 - Is the effectiveness of tourism management regularly monitored?

Yes, using a different system

If a different system, please specify

Tasmanian Government monitoring programs

9.11 - How does the tourism industry cooperate with the site management to improve visitor experiences and maintain the Outstanding Universal Value of the World Heritage property?

There is **good cooperation** between those responsible for the World Heritage property and the tourism industry **to present the Outstanding Universal Value and increase appreciation**

9.12 - How well is the information on the Outstanding Universal Value of the property presented and interpreted?

The Outstanding Universal Value of the property **is adequately presented and interpreted**

9.13 - At how many locations is the World Heritage emblem displayed at the property?

In **one location** and **easily visible** to visitors

9.14 - How does visitor/tourism revenue (e.g. entry charges, permits) contribute to the management of the World Heritage property?

Fees are collected and make a **substantial contribution** to the management of the World Heritage property

9.15 - Are there locally driven sustainable tourism initiatives?

Not applicable

If 'Yes', please specify

9.16 - Are the benefits of tourism shared with local communities?

Not applicable

If 'Yes', please specify

9.17 - Comments, conclusions and/or recommendations related to visitation/tourism/public use of the World Heritage property

10. Monitoring

10.1 - Is there a monitoring programme at the property directed towards management needs and/or towards improving the understanding of the Outstanding Universal Value?

There is a **comprehensive, integrated programme of monitoring**, which is relevant to management needs and/or improving understanding of the Outstanding Universal Value

10.2 - Is necessary information available in order to define key indicators for measuring the state of conservation and are they used in monitoring how the Outstanding Universal Value of the property is being maintained?

Information on the values of the World Heritage property is **adequate** and **key indicators have been defined** but **monitoring of the status of indicators could be improved**

10.3 - Are key indicators defined and in place for the following principal aspects of the property?

	Extend of indicators	Not applicable	No indicators	Indicators have been defined but are not yet in use	Indicators are in place and in use since the last Periodic Reporting cycle
10.3.1	State of conservation				×
10.3.2	Effectiveness of the management system				×
10.3.3	Character of governance				×
10.3.4	Appropriate synergy with other conservation designations	×			
10.3.5	Contribution to sustainable development	×			
10.3.6	Capacity development	×			

10.4 - Please provide information on relevant key indicators adopted at the property

3. Dramatic changes in vegetation cover due to climatic conditions: Regular monitoring of recovery of coastal & inland valley flora following rabbit eradication, soil erosion; Annual monitoring of *Azorella macquariensis* dieback. 4. Vast congregations of wildlife: Annual counts of Southern Elephant Seals; Annual counts of King penguins & periodic count of Royal penguins. Re 10.1: Much property monitoring but not yet fully capable of meeting all Management needs or improving OUV understanding.

10.5 - Please rate the level of involvement in monitoring of the following groups:

World Heritage managers/coordinators and staff	Good
Local/municipal authorities	Fair
Local communities	Not applicable
Indigenous peoples	Not applicable
Landowners	Not applicable
Women	Good

Researchers	Good
Tourism industry	Good
Local businesses and industry	Fair
NGOs	Fair
Other specific groups	Not applicable
If you selected 'Other specific groups', please specify	

10.6 - Has the State Party implemented relevant recommendations arising from the World Heritage Committee?

Implementation is underway

10.7 - Please provide comments relevant to the implementation of recommendations from the World Heritage Committee.

Decision:34COM7B.10 Recommendation 4: Post-eradication outcome monitoring is ongoing. Recommendation 5: The causes of dieback of the Macquarie cushion plant are continuing to be investigated; a larger ex situ conservation holdings of seeds and living plants has been created on the island; and monitoring of the remaining healthy cushion plants is conducted annually.

10.8 - Comments, conclusions and/or recommendations related to Monitoring

11. Identification of Priority Management Needs

11.1 - Identification of Priority Management Needs

5.1	Boundaries and Buffer Zones	
5.1.3	The property has no buffer zone	
5.1.4	The property has no known and recognised buffer zone	
5.2	Protective Measures	
5.2.4	The property has no buffer zone	
5.3	Management System/Management Plan	
5.3.5	No use has been made of the Historic Urban Landscape Recommendation to develop policies and best practices for the protection of the property	
5.3.7	No use has been made of the Policy Document on the Impacts of Climate Change on World Heritage Properties at the property	
5.3.9	No use has been made of the Strategy for Reducing Risks from Disasters at World Heritage Properties at the property	
6.1	Funding	
6.1.10	No use has been made of the World Heritage Strategy for Capacity Development at the World Heritage property	
6.1.12	There is no site-based capacity building plan or programme in place; management is implemented by external staff and skills are not transferred	
7	Scientific Studies and Research Projects	
7.2	There is considerable research in the World Heritage property but it is not directed towards management needs and/or improving understanding of Outstanding Universal Value	
10	Monitoring	
10.2	Information on the values of the World Heritage property is adequate and key indicators have been defined but monitoring of the status of indicators could be improved	

Please select 10 more issues.

☒ Please save this question to reflect changes

12. Summary and Conclusions

12.1. Summary - Factors affecting the Property

12.1.1 - Summary - Factors affecting the Property

4.7	Local conditions affecting physical fabric						
4.7.7	Pests						
4.7.8	Micro-organisms						
4.10	Climate change and severe weather events						

4.10.5	Changes to oceanic waters	4. Vast congregations of wildlife: Southern elephant seal (<i>Mirounga leonina</i>) population decline has recently been linked to poor foraging success due to changing oceanic conditions perturbing prey availability.	Continue to raise awareness of long-term population decline.	Annual census of breeding adults and pups.	Ongoing.	Department of Primary Industries, Parks, Water and Environment.	The Southern Elephant seal population on Macquarie Island has decreased by nearly 50% since 1950.
4.10.6	Temperature change	3. Dramatic changes in vegetation cover due to climatic conditions: Changing climate is considered to be a causative factor in the dieback of the endemic cushion plant <i>Azorella macquariensis</i> .	Continue to raise awareness of long-term species decline, maintain ex-situ plant collections, continue to identify and investigate role of secondary pathogen/s in dieback.	Annual monitoring of dieback progression at selected sites.	Ongoing.	Department of Primary Industries, Parks, Water and Environment.	<i>Azorella macquariensis</i> is a keystone species on Macquarie Island which supports one of the largest and best examples of feldmark vegetation in Australia.
4.10.7	Other climate change impacts	4. Vast congregations of wildlife: Changing oceanic conditions may be implicated in recent declines in Gentoo penguin and Rockhopper penguin numbers in the Reserve; also sea level rise and coastal erosion.	Continue to develop an improved Rockhopper penguin monitoring program which can more accurately detect changes in numbers.	Annual monitoring of Gentoo penguin numbers and breeding success, and periodic monitoring of Rockhopper penguin numbers.	Ongoing.	Department of Primary Industries, Parks, Water and Environment.	Rockhopper penguins are very difficult to count on Macquarie Island because of the convoluted rocky terrain and thick vegetation surrounding colonies.
4.11	Sudden ecological or geological events						
4.11.3		Tsunami/Tidal wave					
4.12	Invasive/alien species or hyper-abundant species						
4.12.1	Translocated species	3. Dramatic changes in vegetation cover due to climatic conditions: Changing climate could increase risk from invasive plant species by improving growing conditions.	Biosecurity screening of all ships, personnel and cargo visiting the Reserve.	Annual monitoring of high visitation areas to detect new invasive plant species and periodic monitoring of other areas.	Ongoing.	Department of Primary Industries, Parks, Water and Environment and the Australian Antarctic Division.	With less than 9 per cent of the flora being introduced weed species (4 extant species), Macquarie Island has one of, if not the most natural floral assemblages of any sub-Antarctic island.
4.12.2	Invasive/Alien terrestrial species	3. Dramatic changes in vegetation cover due to climatic conditions & 4. Vast congregations of wildlife: Climate change is likely to increase the risk of new invasive species being able to establish in the reserve.	Biosecurity screening of all ships, personnel and cargo visiting the Reserve.	Annual monitoring of high visitation areas to detect new species and periodic monitoring of other areas.	Ongoing.	Department of Primary Industries, Parks, Water and Environment and the Australian Antarctic Division.	None.
4.12.4	Invasive/Alien marine species	4. Vast congregations of wildlife: Invasive Marine Species may impact on local food sources for benthic feeding marine species resident in the reserve.	Biosecurity screening of all ships (including hull biofouling inspections and no ballast water disposal or exchange) visiting the Reserve.	Benthic monitoring program to be developed to detect any invasive marine species that may have established in the reserve.	To be determined.	Department of Primary Industries, Parks, Water and Environment.	None.
4.13	Management and institutional factors						
4.13.4		Management activities					

12.2. Summary - Management Needs

12.2.1 - Summary - Management Needs

Please select your top management needs in question 4.9 before filling in the summary table.

12.3. Conclusions on the State of Conservation of the Property

12.3.1 - Following the analysis undertaken for this report, what is the current state of Authenticity of the World Heritage property?

The Authenticity of the World Heritage property **has been preserved**

12.3.2 - Following the analysis undertaken for this report, what is the current state of Integrity of the World Heritage property?

The Integrity of the World Heritage property is **intact**

12.3.3 - Following the analysis undertaken for this report, what is the current state of the World Heritage property's Outstanding Universal Value?

The World Heritage property's Outstanding Universal Value has been **maintained**.

12.3.4 - What is the current state of the property's other values?

Other important cultural and/or natural values are being **partially degraded** but the state of conservation of the World Heritage property has **not been significantly impacted**

12.3.5 - Comments, conclusions and/or recommendations related to the state of conservation of the property.

Azorella macquariensis dieback is continuing and is likely to result in a long-term change to the feldmark areas of the reserve.

13. Impact of World Heritage Status

13.1 - Please rate the impacts of World Heritage status of the property in relation to the following areas

Conservation	Very positive
Research and monitoring	Very positive
Management effectiveness	Positive
Quality of life for local communities and indigenous peoples	Not applicable
Recognition	Positive
Education	Positive
Infrastructure development	Not applicable
Funding for the property	Very positive
International cooperation	Positive
Political support for conservation	Positive
Legal/Policy framework	Positive
Advocacy	Positive
Institutional coordination	Positive
Security	Not applicable
Gender equality	Not applicable
Provision of ecosystem services/ benefits to local communities	Not applicable
Social inclusion and equity, and improvement of opportunities for all, irrespective of age, sex, disability, ethnicity, origin, religion, or economic or other status	Not applicable
Fostering inclusive local economic development and enhancing livelihood	Not applicable
Contributing to conflict prevention, including respect for cultural diversity within and around heritage properties	Not applicable
Other	Not applicable
If 'Other', please specify	

13.2 - Comments, conclusions and/or recommendations related to World Heritage status and its impacts

14. Good Practice in the Implementation of the World Heritage Convention

14.1 - Example of good practice in World Heritage protection, identification, conservation or management at the property level

The Macquarie Island Pest Eradication Project is an outstanding example of good practice in conservation and management of a World Heritage Property. An evaluation of the project was completed in 2014 and is available at:

https://parks.tas.gov.au/Documents/Evaluation_Report_Macquarie_Island_Pest_Eradication_Project.pdf

14.2 - Define which topics are covered by this example of best practice at the property level

State of Conservation

Management

15. Assessment of the Periodic Reporting Exercise

15.1. Relevance of Periodic Reporting

15.1.1 - Has the Periodic Reporting process improved the understanding of the following?

The concept of Outstanding Universal Value

The property's Outstanding Universal Value

The concept of Integrity and/or Authenticity

15.1.2 - Please rate the follow-up to conclusions and recommendations from previous Periodic Reporting exercise by the following entities

State Party	Good
Site Managers	Good
UNESCO World Heritage Centre	Not needed
Advisory Bodies (ICOMOS, IUCN, ICCROM)	Not needed

15.2. Use of Data

15.2.1 - How do the authorities in charge of the property plan to use the data recorded from this cycle of Periodic Reporting?

Revision of priorities/strategies/policies for the protection, management and conservation of heritage

Update of management plans

15.2.2 - Comments on use of data from the Cycle of Periodic Reporting

15.3. Timing and resources

15.3.1 - Entities involved in the filling out of this online questionnaire (tick as many boxes as applicable)

Governmental institutions responsible for cultural and natural heritage

Site Manager/Coordinator World Heritage property staff

15.3.2 - Has a gender balanced contribution and participation been considered in the filling out of this questionnaire?

Gender balance has **not been explicitly** considered or implemented in the process.

15.3.3 - Were you given adequate time (i.e. roughly ten months) to gather necessary information and to fill in this questionnaire?

No

15.3.4 - Please estimate the time (working hours) needed to complete this questionnaire

8 / 8 / 16 /

15.3.5 - Did you mobilise any additional resources to fill out this questionnaire?

	Additional resources	No	Yes
15.3.5.1	Human resources		×
15.3.5.2	Financial resources for organizing consultation meetings/ training	×	

15.4. Format and content of the Periodic Report

15.4.1 - How accessible was the information required to complete this questionnaire?

All required information was accessible.

15.4.2 - Was the questionnaire easy to use and clear to understand?

		Very Difficult	Difficult	Easy	Very easy
15.4.2.1	Ease of use of questionnaire		×		
15.4.2.2	Clarity of questions		×		

15.4.3 - Please provide suggestions for improvement of the Periodic Reporting questionnaire

15.5. Training and Guidance

15.5.1 - Please rate the level of support in terms of training and guidance from the following entities in completing this questionnaire

UNESCO World Heritage Centre	Fair
UNESCO (other sectors/field offices)	Not applicable
UNESCO National Commission	Not applicable
ICOMOS International	Not applicable
IUCN International	Not applicable
ICCROM international/regional	Not applicable
ICOMOS national/regional	Not applicable
IUCN national/regional	Not applicable

15.5.2 - Please rate the level of support for completing the Periodic Reporting questionnaire from the following entities

UNESCO World Heritage Centre	Not applicable
State Party Representative (national Focal Point)	Good
UNESCO other sectors (e.g. field office)	Not applicable
National Commission for UNESCO	Not applicable
ICOMOS International	Not applicable
ICCROM International/regional	Not applicable
ICOMOS national/regional	Not applicable
IUCN national/regional	Not applicable
IUCN International	Not applicable

15.5.3 - Were the online training resources prepared by the World Heritage Centre regarding Periodic Reporting adequate for you to complete this questionnaire?

Yes

15.5.4 - If you found that the online training resources were not adequate, what changes would you like to see implemented?

15.6. Actions that will require formal consideration by the World Heritage Committee

15.6.1 - Summary of actions that will require formal consideration by the World Heritage Committee

No item were proposed for update

15.7. Comments, conclusions and/or recommendations related to the Assessment of the Periodic Reporting Exercise

15.7.1 - Comments, conclusions and/or recommendations related to the Assessment of the Periodic Reporting Exercise

15.7.2 - Thank you for having filled in all the questions. Please contact your National Focal Point for validation.