

Volcanoes of Kamchatka

1. World Heritage Property Data

1.1 - Name of World Heritage property

Volcanoes of Kamchatka

1.2 - World Heritage property details

1.3 - Geographic information table

Name	Coordinates	Property (ha)	Buffer zone (ha)	Total (ha)	Inscription year
	0 / 0	?	?	?	
	0 / 0	?	?	?	
Kronotsky Strict Nature Reserve (two parcels)	54.75 / 161	1147619.37	0	1147619.37	1996
Southern Kamchatka Wildlife Reserve	51.333 / 157	322000	0	322000	1996
"Nalychevo" Regional Nature Park	53.467 / 159	286025	0	286025	1996
"Bystrinsky" Regional Nature Park	56.333 / 158.5	1368592	0	1368592	1996
Southern Kamchatka" Regional Nature Park (two parcels)	51.95 / 158	500511	0	500511	1996
"Kluchevskoy" Regional Nature Park"	56.1 / 160.55	371022	0	371022	2001
Total (ha)		3995769.37	0	3995769.37	

Comment

Following the Monitoring Mission of 2019, the State Party initiated work on improving the management of the Property. The State considers transforming at least two of the regional parks into a one federal national park with a stricter protection regime. This restructuring would reduce a number of components and require a technical revision of maps and the description of boundaries. The State Party will properly inform and consult with the WHC after completing assessments and analysis.

1.4 - Map(s)

Title	Date	Link to source
Volcanoes of Kamchatka: boundary of the component "Kronotsky Strict Nature Reserve" (two parcels)	1996	
Volcanoes of Kamchatka: boundary of the component "Southern Kamchatka Wildlife Reserve"	1996	
Volcanoes of Kamchatka: boundary of the component "Nalychevo" Regional Nature Park	1996	
Volcanoes of Kamchatka: boundary of the component "Bystrinsky" Regional Nature Park	1996	
Volcanoes of Kamchatka: boundary of the component "Kluchevskoy Regional Nature Park"	2000	
Volcanoes of Kamchatka: boundary of the component "Southern Kamchatka" Regional Nature Park (two parcels)	2011	

Comment

In addition to the comment on Q1.3, the State Party plans to duly consult with the WHC on few minor modifications to the boundaries of the Property. These minor modifications concern the regional parks and mainly reflect the technical revision of their boundaries as a result of the development of cadastral records.

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

1. [Greenpeace Russia](#)
2. [Volcanoes of the Kamchatka Region \(VolcanoWorld\)](#)
3. [Volcanoes of Kamchatka, Russia](#)
4. [Natural site datasheet from WCMC](#)
5. [Natural Heritage Protection Fund](#)
6. [Kronotsky Reserve](#)
7. [Vulcanikamchatki \(in Russian\)](#)

Comment

1. Kronotsky Reserve: <http://kronoki.org/>; <https://www.facebook.com/kronotsky.reserve>; <https://www.instagram.com/kronoki.ru/>; <https://vk.com/kronoki> 2. Vulcanikamchatki (in Russian): <http://www.vulcanikamchatki.ru/>; <https://vk.com/vulcanikamchatki> 3. UNEP-WCMC: <http://world-heritage-datasheets.unep-wcmc.org/datasheet/output/site/volcanoes-of-kamchatka/> 4. Natural Heritage Protection Fund: <http://www.nhpfund.org/nominations/kamchatka.html> 5. UNEP WCMC, WDPA database: <https://www.protectedplanet.net/124387>

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

Kronotsky Strict Nature Reserve has a status of the biosphere reserve.

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)

No further comments

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?

No

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

Not relevant

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

No

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.

Not relevant

3. Statement of Outstanding Universal Value

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

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	Criterion (vii): landscapes of exceptional natural beauty - visual and aesthetic significance	✘			
3.2.2	Criterion (viii): an outstanding example of geological processes and landforms (volcanoes and associated volcanic features) - naturalness and intactness of physical processes	✘			
3.2.3	Criterion (ix): a wide range of near pristine terrestrial ecosystems (subarctic and boreal) – naturalness and intactness of ecological processes and systems		✘		
3.2.4	Criterion (x): the most important and significant natural habitats for in situ conservation of biological diversity – the greatest diversity of salmonid fish; viability of populations	✘			
3.2.5	Criterion (x): the most important and significant natural habitats for in situ conservation of biological diversity –the size and viability of the populations of key terrestrial species		✘		
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

Overall, OUV and its attributes are well-preserved. Landscapes of exceptional natural beauty have retained their visual and aesthetic significance. Natural habitats are preserved at scale, supporting key species populations (with few exceptions in a mammal group). In some parts of the Property, ecosystems is affected by projects of significant socio-economic importance. The impact is limited, and the State Party implements respective conservation measures.

4. Factors Affecting the Property

4.1. Buildings and Development

4.1.1 - Housing

Previous answer Cycle 2 (31/07/2014):

- Not relevant

Relevant	<input checked="" type="checkbox"/> Not relevant
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4.1.2 - Commercial development

Previous answer Cycle 2 (31/07/2014):

- Not relevant

Relevant	<input checked="" type="checkbox"/> Not relevant
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4.1.3 - Industrial areas

Previous answer Cycle 2 (31/07/2014):

- Not relevant

Relevant	<input checked="" type="checkbox"/> Not relevant
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4.1.4 - Major visitor accommodation and associated infrastructure

Previous answer Cycle 2 (31/07/2014):

- Not relevant

<input checked="" type="checkbox"/> Relevant	Not relevant
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Impact	Impact		Origin		Trend of impact		
	Current	Potential	Inside	Outside	Decreasing	Stable	Increasing
Positive							
Negative <input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>			

4.1.5 - Interpretative and visitation facilities

Previous answer Cycle 2 (31/07/2014):

- Relevant, Positive, Current, Potential, Inside

<input checked="" type="checkbox"/> Relevant	Not relevant
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Impact	Impact		Origin		Trend of impact		
	Current	Potential	Inside	Outside	Decreasing	Stable	Increasing
Positive <input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
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

Major visitor infrastructure is represented by the Three Volcano Project (under development, outside). Although associated with negative impact on ecosystems, this project also generates substantial positive outcomes. These include funding for the development of visitation facilities, tourist flows regulation as well as wider socio-economic benefits for the region. Major projects in tourism also constitute an alternative to more harmful mining activities.

4.2. Transportation Infrastructure

4.2.1 - Ground transport infrastructure

Previous answer Cycle 2 (31/07/2014):

- Relevant, Negative, Potential, Outside

<input checked="" type="checkbox"/> Relevant	Not relevant
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Impact	Origin	Trend of impact

Impact	Current	Potential	Inside	Outside	Decreasing	Stable	Increasing
Positive							
Negative							

4.2.2 - Underground transport infrastructure

Previous answer Cycle 2 (31/07/2014):

- Not relevant

Relevant	Not relevant
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4.2.3 - Air transport infrastructure

Previous answer Cycle 2 (31/07/2014):

- Relevant, Positive, Potential, Inside

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

4.2.4 - Marine transport infrastructure

Previous answer Cycle 2 (31/07/2014):

- Relevant, Negative, Current, Potential, Outside

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

4.2.5 - Effects arising from use of transportation infrastructure

Previous answer Cycle 2 (31/07/2014):

- Not relevant

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

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

Land: Construction of new roads and improvement of existing ones both outside and inside (Esso-Palana road) the Property provide access to the sites, which may lead to uncontrolled visitation and natural resource use. In addition, more accessible regional parks see an increased number of all-terrain vehicles going off-road, leaving tracks and causing soils erosion. Air: regulation of the helicopters traffic improved, including construction of light landing platforms protecting landscapes.

4.3. Services Infrastructures

4.3.1 - Water infrastructure

Previous answer Cycle 2 (31/07/2014):

- Not relevant

Relevant	Not relevant
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4.3.2 - Renewable energy facilities

Previous answer Cycle 2 (31/07/2014):

- Not relevant

Relevant	Not relevant
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4.3.3 - Non-renewable energy facilities

Previous answer Cycle 2 (31/07/2014):

- Not relevant

Relevant	<input checked="" type="checkbox"/> Not relevant
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4.3.4 - Localised utilities

Previous answer Cycle 2 (31/07/2014):

- Relevant, Negative, Current, Outside

<input checked="" type="checkbox"/> Relevant	Not relevant
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	Impact		Origin		Trend of impact		
Impact	Current	Potential	Inside	Outside	Decreasing	Stable	Increasing
Positive							
Negative <input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>			

4.3.5 - Major linear utilities

Previous answer Cycle 2 (31/07/2014):

- Relevant, Negative, Current, Outside

<input checked="" type="checkbox"/> Relevant	Not relevant
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	Impact		Origin		Trend of impact		
Impact	Current	Potential	Inside	Outside	Decreasing	Stable	Increasing
Positive							
Negative <input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>			

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

Up to date, several previously announced service infrastructure projects (hydropower stations outside the Kronotskiy reserve at Zhupanovaya River, a channel along the Kronotskiy river, some localised utilities) have been cancelled. There is a plan to expand a power lines network near Southern Kamchatka Regional NP. Some localised utilities might follow the Three volcano project. All objects will be placed in a fair distance from the PAs to minimise visual impact and ecosystem disturbances.

4.4. Pollution

4.4.1 - Pollution of marine waters

Previous answer Cycle 2 (31/07/2014):

- Relevant, Negative, Potential, Outside

<input checked="" type="checkbox"/> Relevant	Not relevant
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	Impact		Origin		Trend of impact		
Impact	Current	Potential	Inside	Outside	Decreasing	Stable	Increasing
Positive							
Negative <input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>			

4.4.2 - Ground water pollution

Previous answer Cycle 2 (31/07/2014):

- Not relevant

<input checked="" type="checkbox"/> Relevant	Not relevant
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	Impact		Origin		Trend of impact		
Impact	Current	Potential	Inside	Outside	Decreasing	Stable	Increasing
Positive							
Negative <input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>			

4.4.3 - Surface water pollution

Previous answer Cycle 2 (31/07/2014):

- Not relevant

<input checked="" type="checkbox"/> Relevant	Not relevant
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	Impact		Origin		Trend of impact		
Impact	Current	Potential	Inside	Outside	Decreasing	Stable	Increasing
Positive							
Negative		X		X		→	

4.4.4 - Air pollution

Previous answer Cycle 2 (31/07/2014):

- Not relevant

Relevant	X Not relevant
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4.4.5 - Solid waste

Previous answer Cycle 2 (31/07/2014):

- Relevant, Negative, Current, Outside

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

4.4.6 - Input of excess energy

Previous answer Cycle 2 (31/07/2014):

- Not relevant

Relevant	X Not relevant
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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

Overall, pollution of all types is limited. However, growing tourism combined with a lack of efficient waste-management system result in an increase in littering inside protected areas and unauthorized waste dumps / landfills overflow outside the Property. Marine waters surrounding the Property experience negative impacts (chemical pollution, plastic debris) from increasing cargo traffic and tourism. Mining activities are monitored for potential chemical pollution of surface/ground waters.

4.5. Biological resource use/modification

4.5.1 - Fishing/collecting aquatic resources

Previous answer Cycle 2 (31/07/2014):

- Relevant, Negative, Current, Outside

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

4.5.2 - Aquaculture

Previous answer Cycle 2 (31/07/2014):

- Relevant, Positive, Current, Outside

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

4.5.3 - Land conversion

Previous answer Cycle 2 (31/07/2014):

- Relevant, Negative, Current, Outside

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

4.5.4 - Livestock farming/Grazing of domesticated animals

Previous answer Cycle 2 (31/07/2014):

- Not relevant

Relevant	Not relevant
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4.5.5 - Crop production

Previous answer Cycle 2 (31/07/2014):

- Not relevant

Relevant	Not relevant
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4.5.6 - Commercial wild plant collection

Previous answer Cycle 2 (31/07/2014):

- Not relevant

Relevant	Not relevant
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4.5.7 - Subsistence wild plant collection

Previous answer Cycle 2 (31/07/2014):

- Relevant, Positive, Current, Outside

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

4.5.8 - Commercial hunting

Previous answer Cycle 2 (31/07/2014):

- Relevant, Positive, Current, Potential, Outside

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

4.5.9 - Subsistence hunting

Previous answer Cycle 2 (31/07/2014):

- Relevant, Positive, Current, Potential, Outside

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

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

4.5.10 - Forestry/Wood production

Previous answer Cycle 2 (31/07/2014):

- Not relevant

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

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

Overall, impacts of biological resource use and modification remain stable. Certain improvements have been made in fishing (better quotas regulation, traffic control and anti-poaching measures), reducing negative impact on salmon fish populations. Land conversion is caused by development projects and limited to outside areas. Negative impacts vary from low to moderate and include such effects as ecosystem fragmentation and potential pollution of soil, surface / ground waters.

4.6. Physical resource extraction

4.6.1 - Mining

Previous answer Cycle 2 (31/07/2014):

- Not relevant

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

4.6.2 - Quarrying

Previous answer Cycle 2 (31/07/2014):

- Not relevant

Relevant	✕ Not relevant
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4.6.3 - Oil and gas

Previous answer Cycle 2 (31/07/2014):

- Not relevant

Relevant	✕ Not relevant
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4.6.4 - Water (extraction)

Previous answer Cycle 2 (31/07/2014):

- Not relevant

Relevant	✕ Not relevant
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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

Mining activities (gold, minerals, thermal water) are limited to outside areas and decreasing. Potential negative impacts include chemical pollution of surface and ground waters. Proper monitoring system is in place to prevent and minimise environmental risks.

4.7. Local conditions affecting physical fabric

4.7.1 - Wind

Previous answer Cycle 2 (31/07/2014):

- Not relevant

Relevant	✕ Not relevant
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4.7.2 - Relative humidity

Previous answer Cycle 2 (31/07/2014):

- Not relevant

Relevant	✕ Not relevant
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4.7.3 - Temperature

Previous answer Cycle 2 (31/07/2014):

- Relevant, Negative, Current, Potential, Outside

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

Positive							
Negative	X			X			↗

4.7.4 - Radiation/Light

Previous answer Cycle 2 (31/07/2014):

- Not relevant

Relevant	X Not relevant
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4.7.5 - Dust

Previous answer Cycle 2 (31/07/2014):

- Not relevant

Relevant	X Not relevant
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4.7.6 - Water (rain/water table)

Previous answer Cycle 2 (31/07/2014):

- Relevant, Negative, Current, Potential, Outside

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

4.7.7 - Pests

Previous answer Cycle 2 (31/07/2014):

- Not relevant

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

4.7.8 - Micro-organisms

Previous answer Cycle 2 (31/07/2014):

- Not relevant

Relevant	X Not relevant
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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

The impact of climate-related factors ranges from moderate to high and is increasing. A decrease in rain/snowfalls, combined with higher temperatures, is causing loss of snow cover and destruction of permafrost, contributing to soil erosion and landscape degradation. Landscapes and ecosystems are also affected by a growing number of natural disasters - wildfires, floods, landslides. Pest insects and invasive plants cause forest degradation in few areas, though the overall impact is minor.

4.8. Social/Cultural uses of heritage

4.8.1 - Ritual/Spiritual/Religious and associative uses

Previous answer Cycle 2 (31/07/2014):

- Not relevant

Relevant	X Not relevant
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4.8.2 - Society's valuing of heritage

Previous answer Cycle 2 (31/07/2014):

- Not relevant

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

<input checked="" type="checkbox"/> Negative <input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>
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4.8.3 - Indigenous hunting, gathering and collecting

Previous answer Cycle 2 (31/07/2014):

- Not relevant

Relevant	<input checked="" type="checkbox"/> Not relevant
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4.8.4 - Changes in traditional ways of life and knowledge system

Previous answer Cycle 2 (31/07/2014):

- Not relevant

Relevant	<input checked="" type="checkbox"/> Not relevant
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4.8.5 - Identity, social cohesion, changes in local population and community

Previous answer Cycle 2 (31/07/2014):

- Not relevant

<input checked="" type="checkbox"/> Relevant	Not relevant
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	Impact		Origin		Trend of impact		
Impact	<input checked="" type="checkbox"/> Current	<input checked="" type="checkbox"/> Potential	<input checked="" type="checkbox"/> Inside	<input checked="" type="checkbox"/> Outside	<input checked="" type="checkbox"/> Decreasing	<input checked="" type="checkbox"/> Stable	<input checked="" type="checkbox"/> Increasing
<input checked="" type="checkbox"/> Positive <input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/> Negative <input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>

4.8.6 - Impacts of tourism/Visitation/Recreation

Previous answer Cycle 2 (31/07/2014):

- Relevant, Negative, Current, Outside

<input checked="" type="checkbox"/> Relevant	Not relevant
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	Impact		Origin		Trend of impact		
Impact	<input checked="" type="checkbox"/> Current	<input checked="" type="checkbox"/> Potential	<input checked="" type="checkbox"/> Inside	<input checked="" type="checkbox"/> Outside	<input checked="" type="checkbox"/> Decreasing	<input checked="" type="checkbox"/> Stable	<input checked="" type="checkbox"/> Increasing
<input checked="" type="checkbox"/> Positive <input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>	
<input checked="" type="checkbox"/> Negative <input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>

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

The region is undergoing political and economic changes that affect both societal values and livelihoods. While outcomes are unclear, several trends are emerging.

1. Tourism is actively promoted as an alternative to extractives, yet capacities to regulate impact of tourism on the Property are limited.
2. The development of tourism causes conflicts with hunting and ways of life of local communities.
3. The growing interest to eco-responsible behaviour is limited by lack of respective "enablers".

4.9. Other human activities

4.9.1 - Illegal activities

Previous answer Cycle 2 (31/07/2014):

- Relevant, Negative, Current, Outside

<input checked="" type="checkbox"/> Relevant	Not relevant
--	--------------

	Impact		Origin		Trend of impact		
Impact	<input checked="" type="checkbox"/> Current	<input checked="" type="checkbox"/> Potential	<input checked="" type="checkbox"/> Inside	<input checked="" type="checkbox"/> Outside	<input checked="" type="checkbox"/> Decreasing	<input checked="" type="checkbox"/> Stable	<input checked="" type="checkbox"/> Increasing
<input checked="" type="checkbox"/> Positive							
<input checked="" type="checkbox"/> Negative <input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	

4.9.2 - Deliberate destruction of heritage

Previous answer Cycle 2 (31/07/2014):

- Relevant, Negative, Current, Outside

<input checked="" type="checkbox"/> Relevant	Not relevant
--	--------------

	Impact		Origin		Trend of impact		
Impact	<input checked="" type="checkbox"/> Current	<input checked="" type="checkbox"/> Potential	<input checked="" type="checkbox"/> Inside	<input checked="" type="checkbox"/> Outside	<input checked="" type="checkbox"/> Decreasing	<input checked="" type="checkbox"/> Stable	<input checked="" type="checkbox"/> Increasing
<input checked="" type="checkbox"/> Positive							

4.10.5 - Changes to oceanic waters

Previous answer Cycle 2 (31/07/2014):

- Not relevant

Relevant	<input checked="" type="checkbox"/> Not relevant
----------	--

4.10.6 - Temperature change

Previous answer Cycle 2 (31/07/2014):

- Not relevant

<input checked="" type="checkbox"/> Relevant	Not relevant
--	--------------

	Impact		Origin		Trend of impact		
Impact	Current	Potential	Inside	Outside	Decreasing	Stable	Increasing
Positive							
Negative <input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>			

4.10.7 - Other climate change impacts

Previous answer Cycle 2 (31/07/2014):

- Not relevant

Relevant	<input checked="" type="checkbox"/> Not relevant
----------	--

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

Changes in temperature, the length and timing of seasons have a noticeable impact on landscapes, which are increasingly exposed to soils erosion aggravated by the reduction of snow cover and the destruction of permafrost. Warmer and longer summers also increase risks of wildfires and pests spreading in forestry ecosystems. The impact of storms, river overflows and floods is low, but may increase with the development of infrastructure and respective interference in ecosystems.

4.11. Sudden ecological or geological events

4.11.1 - Volcanic eruption

Previous answer Cycle 2 (31/07/2014):

- Relevant, Negative, Current, Potential, Outside

<input checked="" type="checkbox"/> Relevant	Not relevant
--	--------------

	Impact		Origin		Trend of impact		
Impact	Current	Potential	Inside	Outside	Decreasing	Stable	Increasing
Positive <input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
Negative <input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			

4.11.2 - Earthquake

Previous answer Cycle 2 (31/07/2014):

- Relevant, Negative, Current, Potential, Outside

<input checked="" type="checkbox"/> Relevant	Not relevant
--	--------------

	Impact		Origin		Trend of impact		
Impact	Current	Potential	Inside	Outside	Decreasing	Stable	Increasing
Positive							
Negative <input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			

4.11.3 - Tsunami/Tidal wave

Previous answer Cycle 2 (31/07/2014):

- Relevant, Negative, Potential, Outside

<input checked="" type="checkbox"/> Relevant	Not relevant
--	--------------

	Impact		Origin		Trend of impact		
Impact	Current	Potential	Inside	Outside	Decreasing	Stable	Increasing
Positive							
Negative <input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>			

4.11.4 - Avalanche/Landslide

Previous answer Cycle 2 (31/07/2014):

- Relevant, Negative, Current, Potential, Outside

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

4.11.5 - Erosion and siltation/Deposition

Previous answer Cycle 2 (31/07/2014):

- Relevant, Negative, Current, Potential, Outside

✕ 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 (31/07/2014):

- Relevant, Negative, Current, Potential, Outside

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

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

Volcanic eruptions, earthquakes as well as related to them tsunamis, avalanches and landslides are natural geological processes, constituting (contributing to) one of the attributes of the Property's OUV. Therefore, despite being marked as "negative" (i.e. causing destruction), these factors can be considered neutral. In contrast, wildfires, soil erosion and landslides (except caused by volcanic activities) drive landscape and forests degradation, representing high-level threats to the Property.

4.12. Invasive/alien species or hyper-abundant species

4.12.1 - Translocated species

Previous answer Cycle 2 (31/07/2014):

- Not relevant

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

4.12.2 - Invasive/Alien terrestrial species

Previous answer Cycle 2 (31/07/2014):

- 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 (31/07/2014):

- Not relevant

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

4.12.4 - Invasive/Alien marine species

Previous answer Cycle 2 (31/07/2014):

- Not relevant

Relevant	<input checked="" type="checkbox"/> Not relevant
----------	--

4.12.5 - Hyper-abundant species

Previous answer Cycle 2 (31/07/2014):

- Not relevant

Relevant	<input checked="" type="checkbox"/> Not relevant
----------	--

4.12.6 - Modified genetic material

Previous answer Cycle 2 (31/07/2014):

- Not relevant

Relevant	<input checked="" type="checkbox"/> 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

Invasive species are represented by pest insects and invasive plants, affecting terrestrial ecosystems and causing extinctions of native plants and forest degradation. The negative effects are currently limited to small spots, but risks of aggravation are high due to increasing economic activities (tourism, construction of major tourism and linear infrastructure) and enabling climate conditions (warmer and longer summers).

4.13. Management and institutional factors

4.13.1 - Management system/Management plan

<input checked="" type="checkbox"/> Relevant	Not relevant
--	--------------

	Impact		Origin		Trend of impact		
Impact	Current	Potential	Inside	Outside	Decreasing	Stable	Increasing
Positive							
Negative <input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			

4.13.2 - Legal framework

<input checked="" type="checkbox"/> Relevant	Not relevant
--	--------------

	Impact		Origin		Trend of impact		
Impact	Current	Potential	Inside	Outside	Decreasing	Stable	Increasing
Positive							
Negative <input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>			

4.13.3 - Governance

<input checked="" type="checkbox"/> Relevant	Not relevant
--	--------------

	Impact		Origin		Trend of impact		
Impact	Current	Potential	Inside	Outside	Decreasing	Stable	Increasing
Positive <input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
Negative							

4.13.4 - Management activities

Previous answer Cycle 2 (31/07/2014):

- Relevant, Positive, Current, Inside

<input checked="" type="checkbox"/> Relevant	Not relevant
--	--------------

	Impact		Origin		Trend of impact		
Impact	Current	Potential	Inside	Outside	Decreasing	Stable	Increasing
Positive <input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
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 (31/07/2014):

- Relevant, Positive, Current, 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 (31/07/2014):

- Not relevant

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

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

Management / institutional factors combine 2 contrary trends: Current, negative, mostly decreasing factors include – minor contradictions b/n boundaries of national PAs and the WHS; a trend on weakening of legal protection of PAs; lack of coordination among the Property's sites; lack of financial and human resources, especially in regional parks. Expected positive changes involve restructuring of regional parks, an increase in state and private funding both for conservation and research, etc.

4.14. Other factor(s)

4.14.1 - Other factor(s)

Restructuring of regional parks Following the Monitoring Mission of 2019, the State Party initiated work on improving management of the Property. The State considers transforming at least two of the regional parks into a one federal national park with a stricter protection regime. It will also allow to improve coordination among the Property components, increase provision of financial and human resources as well as strengthen conservation, research and monitoring capacities.

4.15. Factors Summary Table

4.15.1 - Factors Summary Table

Name	Impact		Origin		Trend	
4.1 Buildings and Development						
4.1.4 Major visitor accommodation and associated infrastructure						
	🔴	🟡	🟢	🟢	📉	📈
4.1.5 Interpretative and visitation facilities						
	🟢	🔴	🟡	🟢	📉	📈
4.2 Transportation Infrastructure						
4.2.1 Ground transport infrastructure						
	🔴	🔴	🟡	🟢	📉	📈
4.2.3 Air transport infrastructure						
	🟢	🔴	🟢	🟢	📉	📈

4.2.4 Marine transport infrastructure						
4.2.5 Effects arising from use of transportation infrastructure						
4.3 Services Infrastructures						
4.3.4 Localised utilities						
4.3.5 Major linear utilities						
4.4 Pollution						
4.4.1 Pollution of marine waters						
4.4.2 Ground water pollution						
4.4.3 Surface water pollution						
4.4.5 Solid waste						
4.5 Biological resource use/modification						
4.5.1 Fishing/collecting aquatic resources						
4.5.2 Aquaculture						
4.5.3 Land conversion						
4.5.7 Subsistence wild plant collection						
4.5.8 Commercial hunting						
4.5.9 Subsistence hunting						
4.5.10 Forestry/Wood production						
4.6 Physical resource extraction						
4.6.1 Mining						
4.7 Local conditions affecting physical fabric						
4.7.3 Temperature						
4.7.6 Water (rain/water table)						

4.7.7 Pests										
	⊖	⚠		⊕	↺	↻	↗			
4.8 Social/Cultural uses of heritage										
4.8.2 Society's valuing of heritage	⊕	⚠				↺	↻	↗		
	⊖	⚠				↺	↻	↗		
4.8.5 Identity, social cohesion, changes in local population and community	⊕	⚠				↺	↻	↗		
	⊖	⚠				↺	↻	↗		
4.8.6 Impacts of tourism/Visitation/Recreation	⊕	⚠		⊕				↗		
	⊖	⚠		⊕	↺	↻	↗			
4.9 Other human activities										
4.9.1 Illegal activities										
	⊖	⚠		⊕	↺	↻	↗			
4.9.2 Deliberate destruction of heritage										
	⊖	⚠		⊕	↺	↻	↗			
4.10 Climate change and severe weather events										
4.10.1 Storms										
	⊖	⚠				↺	↻	↗		
4.10.2 Flooding										
	⊖	⚠				↺	↻	↗		
4.10.6 Temperature change										
	⊖	⚠	⚠			↺	↻	↗		
4.11 Sudden ecological or geological events										
4.11.1 Volcanic eruption	⊕	⚠	⚠	⊕	↺	↻	↗			
	⊖	⚠	⚠	⊕	↺	↻	↗			
4.11.2 Earthquake										
	⊖	⚠	⚠	⊕	↺	↻	↗			
4.11.3 Tsunami/Tidal wave										
	⊖	⚠	⚠			↺	↻	↗		
4.11.4 Avalanche/Landslide										
	⊖	⚠	⚠	⊕	↺	↻	↗			
4.11.5 Erosion and siltation/Deposition										
	⊖	⚠	⚠	⊕	↺	↻	↗			
4.11.6 Fire (wildfire)										
	⊖	⚠	⚠	⊕	↺	↻	↗			
4.12 Invasive/alien species or hyper-abundant species										
4.12.2 Invasive/Alien terrestrial 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						
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
4.1.4 Major visitor accommodation and associated 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

High capacity

Medium capacity

Low capacity

No capacity and / or resources

Trend - Development over the last 6 years

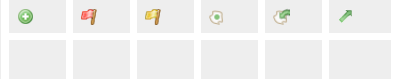
Decreasing

Static

Increasing

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

4.1.5 Interpretative and visitation facilities



Spatial scale - Area affected by the factor

<input type="checkbox"/>	Restricted
<input type="checkbox"/>	Localised
<input checked="" 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 type="checkbox"/>	Insignificant
<input type="checkbox"/>	Minor
<input checked="" 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 type="checkbox"/>	Decreasing
<input type="checkbox"/>	Static
<input checked="" type="checkbox"/>	Increasing

4.2 Transportation Infrastructure

Name	Impact	Origin	Trend
4.2.1 Ground transport infrastructure			



Spatial scale - Area affected by the factor





<input type="checkbox"/>	Restricted
<input checked="" 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 checked="" type="checkbox"/>	Intermittent or sporadic
<input type="checkbox"/>	Frequent
<input type="checkbox"/>	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
4.2.3 Air transport 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	
	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
4.2.4 Marine transport infrastructure			

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 type="checkbox"/>	Insignificant
<input checked="" type="checkbox"/>	Minor
<input type="checkbox"/>	Significant
<input type="checkbox"/>	Major

Management response - Capacity of management to respond

<input type="checkbox"/>	High capacity
<input type="checkbox"/>	Medium capacity
<input checked="" type="checkbox"/>	Low capacity
<input type="checkbox"/>	No capacity and / or resources

Trend - Development over the last 6 years

<input type="checkbox"/>	Decreasing
<input type="checkbox"/>	Static
<input checked="" type="checkbox"/>	Increasing

Name	Impact	Origin	Trend
4.2.5 Effects arising from use of transportation infrastructure			

Spatial scale - Area affected by the factor

<input type="checkbox"/>	Restricted
<input type="checkbox"/>	Localised
<input checked="" 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

	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
4.3.4 Localised utilities			





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
4.3.5 Major linear utilities							
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							
	Insignificant						
<input checked="" type="checkbox"/>	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						
	Static						
<input checked="" type="checkbox"/>	Increasing						

4.4 Pollution

Name		Impact			Origin		Trend
4.4.1 Pollution of marine waters							
Spatial scale - Area affected by the factor							
	Restricted						
<input checked="" type="checkbox"/>	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
4.4.3 Surface 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





	Restricted
	Localised
✘	Extensive
	Widespread

Temporal scale - Occurrence of the impact

	One off or rare
	Intermittent or sporadic




<input checked="" type="checkbox"/>	Frequent
<input type="checkbox"/>	On-going
Impact - Impact on the attributes	
<input type="checkbox"/>	Insignificant
<input type="checkbox"/>	Minor
<input checked="" type="checkbox"/>	Significant
<input type="checkbox"/>	Major
Management response - Capacity of management to respond	
<input type="checkbox"/>	High capacity
<input type="checkbox"/>	Medium capacity
<input checked="" type="checkbox"/>	Low capacity
<input type="checkbox"/>	No capacity and / or resources
Trend - Development over the last 6 years	
<input type="checkbox"/>	Decreasing
<input type="checkbox"/>	Static
<input checked="" type="checkbox"/>	Increasing

4.5 Biological resource use/modification

Name	Impact	Origin	Trend
4.5.1 Fishing/collecting aquatic resources	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			
	<input type="checkbox"/>	<input type="checkbox"/>	

Spatial scale - Area affected by the factor	
<input type="checkbox"/>	Restricted
<input type="checkbox"/>	Localised
<input checked="" 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 type="checkbox"/>	Insignificant
<input type="checkbox"/>	Minor
<input type="checkbox"/>	Significant
<input checked="" 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	

	Decreasing
✘	Static
	Increasing

Name	Impact	Origin	Trend
4.5.2 Aquaculture	 		

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
4.5.3 Land conversion	 		






Spatial scale - Area affected by the factor

	Restricted
✘	Localised
	Extensive
	Widespread

Temporal scale - Occurrence of the impact






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

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

Name	Impact	Origin	Trend
4.5.7 Subsistence wild plant collection	 	 	

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

	Decreasing
✘	Static
	Increasing

Name	Impact	Origin	Trend
4.5.8 Commercial hunting	 	 	

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
4.5.9 Subsistence hunting	 	 	




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
4.5.10 Forestry/Wood production	 	 	

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
<input checked="" type="checkbox"/>	Static
	Increasing

4.6 Physical resource extraction

Name	Impact	Origin	Trend
4.6.1 Mining			
	  		

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

	Insignificant
	Minor
<input checked="" type="checkbox"/>	Significant
	Major




Management response - Capacity of management to respond

	High capacity
	Medium capacity
<input checked="" type="checkbox"/>	Low capacity
	No capacity and / or resources

Trend - Development over the last 6 years

<input checked="" type="checkbox"/>	Decreasing
	Static
	Increasing

4.7 Local conditions affecting physical fabric

Name	Impact	Origin	Trend
4.7.3 Temperature			
	 		

Spatial scale - Area affected by the factor

	Restricted
	Localised
	Extensive

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

Name	Impact	Origin	Trend
4.7.6 Water (rain/water table)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Spatial scale - Area affected by the factor	
<input type="checkbox"/>	Restricted
<input type="checkbox"/>	Localised
<input type="checkbox"/>	Extensive
<input checked="" 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 type="checkbox"/>	Insignificant
<input type="checkbox"/>	Minor
<input checked="" type="checkbox"/>	Significant
<input type="checkbox"/>	Major
Management response - Capacity of management to respond	
<input type="checkbox"/>	High capacity
<input type="checkbox"/>	Medium capacity

<input checked="" type="checkbox"/>	Low capacity
<input type="checkbox"/>	No capacity and / or resources
Trend - Development over the last 6 years	
<input type="checkbox"/>	Decreasing
<input type="checkbox"/>	Static
<input checked="" type="checkbox"/>	Increasing

Name	Impact	Origin	Trend
4.7.7 Pests	<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 type="checkbox"/>	Restricted
<input checked="" 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 type="checkbox"/>	Insignificant
<input checked="" type="checkbox"/>	Minor
<input type="checkbox"/>	Significant
<input type="checkbox"/>	Major

Management response - Capacity of management to respond	
<input type="checkbox"/>	High capacity
<input type="checkbox"/>	Medium capacity
<input checked="" type="checkbox"/>	Low capacity
<input type="checkbox"/>	No capacity and / or resources









Trend - Development over the last 6 years	
<input type="checkbox"/>	Decreasing
<input type="checkbox"/>	Static
<input checked="" type="checkbox"/>	Increasing

4.8 Social/Cultural uses of heritage

Name	Impact	Origin	Trend
4.8.2 Society's valuing of heritage	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>










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

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

Name	Impact	Origin	Trend
4.8.5 Identity, social cohesion, changes in local population and community	 		
	 		

Spatial scale - Area affected by the factor	
	Restricted
	Localised
	Extensive
X	Widespread
Temporal scale - Occurrence of the impact	
	One off or rare
	Intermittent or sporadic
	Frequent
X	On-going
Impact - Impact on the attributes	
	Insignificant
	Minor
X	Significant
	Major
Management response - Capacity of management to respond	
	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 type="checkbox"/>	Decreasing
<input type="checkbox"/>	Static
<input checked="" type="checkbox"/>	Increasing

Name	Impact	Origin	Trend
4.8.6 Impacts of tourism/Visitation/Recreation	 		
	 	 	

Spatial scale - Area affected by the factor	
<input type="checkbox"/>	Restricted
<input type="checkbox"/>	Localised
<input checked="" 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 type="checkbox"/>	Insignificant
<input type="checkbox"/>	Minor
<input type="checkbox"/>	Significant
<input checked="" type="checkbox"/>	Major

Management response - Capacity of management to respond	
<input type="checkbox"/>	High capacity
<input type="checkbox"/>	Medium capacity
<input checked="" type="checkbox"/>	Low capacity
<input type="checkbox"/>	No capacity and / or resources

Trend - Development over the last 6 years	
<input type="checkbox"/>	Decreasing
<input type="checkbox"/>	Static
<input checked="" type="checkbox"/>	Increasing

4.9 Other human activities

Name	Impact	Origin	Trend
4.9.1 Illegal activities	 	 	

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





<input checked="" type="checkbox"/>	Localised
	Extensive
	Widespread
Temporal scale - Occurrence of the impact	
	One off or rare
	Intermittent or sporadic
	Frequent
<input checked="" type="checkbox"/>	On-going
Impact - Impact on the attributes	
	Insignificant
	Minor
<input checked="" type="checkbox"/>	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	
<input checked="" type="checkbox"/>	Decreasing
	Static
	Increasing

Name	Impact	Origin	Trend
4.9.2 Deliberate destruction of heritage			

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

4.10 Climate change and severe weather events

Name	Impact	Origin	Trend
4.10.1 Storms			
	 	 	

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
4.10.2 Flooding			
	 	 	

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

Name	Impact			Origin		Trend
4.10.6 Temperature change						

Spatial scale - Area affected by the factor	
<input type="checkbox"/>	Restricted
<input type="checkbox"/>	Localised
<input type="checkbox"/>	Extensive
<input checked="" 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 type="checkbox"/>	Insignificant
<input type="checkbox"/>	Minor
<input checked="" type="checkbox"/>	Significant
<input type="checkbox"/>	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
4.11.1 Volcanic eruption	  	 	
	  	 	

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
4.11.2 Earthquake	  	 	
	  	 	

Spatial scale - Area affected by the factor	
<input type="checkbox"/>	Restricted
<input checked="" 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 type="checkbox"/>	Insignificant
<input checked="" type="checkbox"/>	Minor
<input type="checkbox"/>	Significant
<input type="checkbox"/>	Major
Management response - Capacity of management to respond	
<input type="checkbox"/>	High capacity
<input type="checkbox"/>	Medium capacity
<input checked="" 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
4.11.3 Tsunami/Tidal wave	<input type="checkbox"/>	<input type="checkbox"/>	<input 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 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 type="checkbox"/>	Insignificant
<input checked="" type="checkbox"/>	Minor
<input type="checkbox"/>	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
4.11.4 Avalanche/Landslide			
			
			





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

Name	Impact	Origin	Trend
4.11.6 Fire (wildfire)			

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

4.12 Invasive/alien species or hyper-abundant species

Name	Impact	Origin	Trend
4.12.2 Invasive/Alien terrestrial species			
			
			

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

<input type="checkbox"/>	Restricted
<input checked="" 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 type="checkbox"/>	Insignificant
<input type="checkbox"/>	Minor
<input checked="" 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

Name	Impact	Origin	Trend
4.13.2 Legal framework	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	  	 	

Spatial scale - Area affected by the factor

<input type="checkbox"/>	Restricted
<input checked="" 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 type="checkbox"/>	Insignificant
<input type="checkbox"/>	Minor

<input checked="" type="checkbox"/>	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
	Static
<input checked="" type="checkbox"/>	Increasing

Name	Impact	Origin	Trend
4.13.3 Governance	  	 	




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
<input checked="" type="checkbox"/>	On-going

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






Name	Impact	Origin	Trend
4.13.4 Management activities	  	 	

Spatial scale - Area affected by the factor	
<input type="checkbox"/>	Restricted
<input type="checkbox"/>	Localised
<input checked="" 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 type="checkbox"/>	Insignificant
<input type="checkbox"/>	Minor
<input checked="" 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 type="checkbox"/>	Decreasing
<input type="checkbox"/>	Static
<input checked="" type="checkbox"/>	Increasing

Name	Impact			Origin		Trend
4.13.5 Financial resources						

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

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

Name	Impact	Origin	Trend
4.13.6 Human resources	 	 	
	 	 	







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

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

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

Management response - Capacity of management to respond	
	High capacity
	Medium capacity
<input checked="" type="checkbox"/>	Low capacity
	No capacity and / or resources

Trend - Development over the last 6 years	
	Decreasing
	Static
<input checked="" type="checkbox"/>	Increasing

Name	Impact	Origin	Trend
4.13.7 Low impact research/monitoring activities	  	 	

Spatial scale - Area affected by the factor	
<input type="checkbox"/>	Restricted
<input type="checkbox"/>	Localised
<input checked="" 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 type="checkbox"/>	Insignificant
<input type="checkbox"/>	Minor
<input checked="" 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 type="checkbox"/>	Decreasing
<input type="checkbox"/>	Static
<input checked="" type="checkbox"/>	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

Terms: Kronotsky – Kronotsky Strict Nature Reserve SKWR – Southern Kamchatka Wildlife Reserve Nalychevo – Nalychevo Regional Nature Park Bystrinsky – Bystrinsky Regional Nature Park SKRNP – Southern Kamchatka Regional Nature Park Kluchevskoy – Kluchevskoy Regional Nature Park Regional Parks – Nalychevo, Bystrinsky, SKRNP, Kluchevskoy Federal PAs – SKWR, Kronotsky 4.1 Buildings and Development 4.1.4 Major visitor accommodation and associated infrastructure: SKWR. 4.1.5 Interpretative and visitation facilities: all components; greater performance of Federal PAs. 4.2 Transportation Infrastructure 4.2.1 Ground transport infrastructure: All Regional Parks. 4.2.3 Air transport infrastructure: All components with greater performance in the air traffic regulation in Federal PAs. 4.2.4 Marine transport infrastructure 4.2.5 Effects arising from use of transportation infrastructure: Kronotsky, SKWR, SKRNP. 4.3 Services Infrastructures 4.3.5 Major linear utilities: Regional Parks, especially SKRNP and Nalychevo. 4.4 Pollution 4.4.1 Pollution of marine waters: Kronotsky, SKWR, SKRNP and partially Nalychevo. 4.4.2 Ground water pollution: SKRNP and Bystrinsky. 4.4.3 Surface water pollution: SKRNP. 4.4.5 Solid waste: All components. 4.5 Biological resource use/modification 4.5.1 Fishing/collecting aquatic resources: All components, except Kluchevskoy. 4.5.2 Aquaculture: All components, except Kluchevskoy. 4.5.3 Land conversion: Nalychevo, Bystrinsky, SKRNP. 4.5.7 Subsistence wild plant collection: Regional Parks. 4.5.8 Commercial hunting: Regional Parks. 4.5.9 Subsistence hunting: Regional Parks. 4.5.10 Forestry/Wood production: Regional Parks. 4.6 Physical resource extraction 4.6.1 Mining: SKRNP and Bystrinsky. 4.7 Local conditions affecting physical fabric 4.7.3 Temperature: All components. 4.7.6 Water (rain/water table): All components. 4.7.7 Pests: Regional Parks. 4.8 Social/Cultural uses of heritage 4.8.2 Society's valuing of heritage: All components, with greater impact on Regional Parks. 4.8.5 Identity, social cohesion, changes in local population and community: All components, with greater impact on Regional Parks. 4.8.6 Impacts of tourism/Visitation/Recreation: All components, with greater impact on Regional Parks. 4.9 Other human activities 4.9.1 Illegal activities: All components, with greater performance in anti-poaching measures in Federal PAs. 4.9.2 Deliberate destruction of heritage: Regional Parks. 4.10 Climate change and severe weather events 4.10.1 Storms: All components. 4.10.2 Flooding: Nalychevo, Bystrinsky. 4.10.6 Temperature change: All components. 4.11 Sudden ecological or geological events 4.11.1 Volcanic eruption: All components. 4.11.2 Earthquake: All components. 4.11.3 Tsunami/Tidal wave: Kronotsky, SKWR, SKRNP and partially Nalychevo. 4.11.4 Avalanche/Landslide: All components. 4.11.5 Erosion and siltation/Deposition: All components, with greater impact on Regional Parks. 4.11.6 Fire (wildfire): All components, with higher risks in Bystrinsky. 4.12 Invasive/alien species or hyper-abundant species 4.12.2 Invasive/Alien terrestrial species: All components, with greater impact on Regional Parks. 4.13 Management and institutional factors 4.13.1 Management system/Management plan: Regional Parks. 4.13.2 Legal framework: All components. 4.13.4 Management activities: All components with greater performance of Federal PAs. 4.13.5 Financial resources: All components with especially negative effects in Regional Parks. 4.13.6 Human resources: All components with especially negative effects in Regional Parks. 4.13.7 Low impact research/monitoring activities: All components with greater performance of Federal PAs.

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	Criterion (vii): landscapes of exceptional natural beauty - visual and aesthetic significance		×		
4.18.1.2	Criterion (viii): an outstanding example of geological processes and landforms (volcanoes and associated volcanic features) - naturalness and intactness of physical processes	×			
4.18.1.3	Criterion (ix): a wide range of near pristine terrestrial ecosystems (subarctic and boreal) – naturalness and intactness of ecological processes and systems		×		
4.18.1.4	Criterion (x): the most important and significant natural habitats for in situ conservation of biological diversity – the greatest diversity of salmonid fish; viability of populations	×			
4.18.1.5	Criterion (x): the most important and significant natural habitats for in situ conservation of biological diversity –the size and viability of the populations of key terrestrial species		×		

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 **do not limit the ability to maintain** the property's Outstanding Universal Value but they **could be improved**

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, but there is a need for 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

1. The State Party considers transforming at least two of the regional parks into a one federal national park with a stricter protection regime. The restructuring would reduce a number of components and require a technical revision of the maps and description of boundaries. 2. Two buffer zone projects are under development: a Buffer Zone at the Kronotsky Reserve (status: stakeholder consultation; projecting area 146,719ha); a Buffer Zone at the South Kamchatka NP (status: analysis).

5.2. Protective Measures

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

The World Heritage property "Volcanoes of Kamchatka" (the Property) is a serial property composed of six different components: two are federal protected areas (Kronotsky Strict Nature Reserve (KSNR) and South Kamchatka Wildlife Refuge (SKWR)) and four are regionally administered nature parks (Bystrinsky (BNP), Nalychevo (NNP), South Kamchatka (SKNP) and Kluchevskoy (KNP)).

The two federal protected areas are under the direct authority of the Federal Ministry of Natural Resources and are managed by one management authority. KSNR is a strict nature reserve, corresponding to IUCN category Ia1. The site was also designated in 1984 as a UNESCO biosphere reserve. SKWR is a wildlife refuge corresponding to IUCN category IV2. The four regional protected areas are under the jurisdiction of the regional government of the Kamchatka Krai and are managed by four different protected area authorities under the Department of Nature Resources and Environmental Protection of the regional administration. According to the nomination file, the current status of nature parks corresponds to IUCN category V3. The protected areas of the Property are governed by the national protected area legislation, in particular the federal law "On environmental protection" dating back to 1991 but updated in 2002 and federal law "On specially protected natural areas" of 1995. The first law defines standards for environmental quality, makes provisions for the protection of biota and provides a basis for federal protected areas and activities permitted in them. The protected area law regulates the organization, protection and use of protected areas. In addition to the already recognized forms of protected areas, the law enabled the establishment of regional level nature parks and other types of protected areas. The law also stipulates that fines collected in federal protected areas are to be designated to the protected areas themselves.

At regional level, the regional law 121 "On specially protected areas of the Kamchatka region" of 1997, altered in 2006 regulates the establishment, organization, protection and utilization of specially protected natural areas. The law establishes the framework for the preservation of unique natural areas under four designations: 1) nature parks 2) wildlife refuges 3) natural monuments and 4) medicinal and healing areas. The law mandates the conservation and/or sustainable-use of the biological resources within these areas. The law also requires Nature Parks to "establish the conditions that allow for traditional resource use practices by indigenous peoples of Kamchatka Oblast for their incorporation in the natural, scientific, educational, and recreational goals of the park."

Source: 2007 RMM mission report

Comment

The World Heritage property "Volcanoes of Kamchatka" (the Property) is a serial property composed of six different components: two are federal protected areas (Kronotsky Strict Nature Reserve (KSNR) and South Kamchatka Wildlife Refuge (SKWR)) and four are regionally administered nature parks (Bystrinsky (BNP), Nalychevo (NNP), South Kamchatka (SKNP) and Kluchevskoy (KNP)). The two federal protected areas are under the direct authority of the Federal Ministry of Natural Resources and are management by one management authority. KSNR is a strict nature reserve, corresponding to IUCN category Ia1. The site was also designated in 1984 as a UNESCO biosphere reserve. SKWR is a wildlife refuge corresponding to IUCN category IV2. The four regional protected areas are under the jurisdiction of the regional government of the Kamchatka Krai and are managed by a local management authority under the Ministry of Nature Resources and Environmental Protection of the regional administration. According to the nomination file, the current status of nature parks corresponds to IUCN category V3. The protected areas of the Property are governed by the national protected area legislation, in particular the federal law "On environmental protection" dating back to 1991 but updated in 2002 and federal law "On specially protected natural areas" of 1995. The first law defines standards for environmental quality, makes provisions for the protection of biota and provides a basis for federal protected areas and activities permitted in them. The protected area law regulates the organization,

protection and use of protected areas. In addition to the already recognized forms of protected areas, the law enabled the establishment of regional level nature parks and other types of protected areas. The law also stipulates that fines collected in federal protected areas are to be designated to the protected areas themselves. At regional level, the regional law "On specially protected areas of the Kamchatka region" of 1997 regulates the establishment, organization, protection and utilization of specially protected natural areas. The law establishes the framework for the preservation of unique natural areas under four designations: 1) nature parks 2) wildlife refuges 3) natural monuments and 4) medicinal and healing areas. The law mandates the conservation and/or sustainable-use of the biological resources within these areas. The law also requires Nature Parks to "establish the conditions that allow for traditional resource use practices by indigenous peoples of Kamchatka Oblast for their incorporation in the natural, scientific, educational, and recreational goals of the park."

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

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?

An **adequate legal framework** for maintaining of the Outstanding Universal Value including conditions of Authenticity and/or Integrity of the World Heritage property exists **but there are some deficiencies in implementation**

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?

An **adequate legal framework** exists for the broader setting of the World Heritage property, **but there are some deficiencies in implementation** which undermine the maintenance of the Outstanding Universal Value including conditions of Authenticity and/or Integrity of the property

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

There are **major deficiencies in 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

Overall, the legal framework is adequate for maintaining the OUV. Areas of improvement include a greater protection for integrity of regional parks, setting up buffer zones and the development of regulations for tourism activity (compulsory environmental assessment, visitation limits). Whereas all components of the Property will benefit from the better resource provision, an increase in funding and human resource capacities is critical to ensure adequate legal enforcement in regional parks.

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

Although national legislation sets up an adequate framework to protect the OUV, enforcement can be limited by a lack of capacities and resources.

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 joint national/ local

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.

A code of practice developed by industry

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

The World Heritage property "Volcanoes of Kamchatka" (the Property) is a serial property composed of six different components: two are federal protected areas (Kronotsky Strict Nature Reserve (KSNR) and South Kamchatka Wildlife Refuge (SKWR)) and four are regionally administered nature parks (Bystrinsky (BNP), Nalychevo (NNP), South Kamchatka (SKNP) and Kluchevskoy (KNP)). The two federal protected areas are under the direct authority of the Federal Ministry of Natural Resources and are management by one management authority. The four regional protected areas are under the jurisdiction of the regional government of the Kamchatka Krai and are managed by a local management authority under the Ministry of Nature Resources and Environmental Protection of the regional administration. Coordination between federal and regional management authorities are regulated by an MoU type of agreement, and there is no integrated management plan in practice. All relevant stakeholder groups are involved in essential decision on the Property management, including, but not limited to local communities, municipalities, landowners, NGOs, and etc.

5.3.4 - Management Documents

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?

The 2011 Recommendation on the Historic Urban Landscape is **not relevant** to this property

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

Not relevant

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:

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

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

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

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 **coordination** between the range of administrative bodies involved in the management of the property, **but it could be improved**

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

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

5.3.13 - Is the management system being implemented?

The management system is being **only partially implemented**

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

There is no action plan, targets or specific policy to support the Integration of a Sustainable Development Perspective into the Processes of the World Heritage Convention. The reported results have been achieved through ongoing operations / everyday activities.

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)	52 %	0 %
6.1.1.7	Governmental (regional/provincial/state)	20 %	0 %
6.1.1.8	Governmental (local/municipal)	0 %	0 %
6.1.1.9	In-country donations (NGOs, foundations, etc.)	0 %	100 %
6.1.1.10	Individual visitor charges (e.g. entry, toilets, parking, camping fees, etc.)	28 %	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 100 %	Total 100 %

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

The management authorities do not conduct special accounting for the project and running costs. In practice, state funding and incomes from individual visitor charges support the running costs, whereas donations are project restricted.

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

The available **budget is inadequate** for basic management needs and presents a serious constraint to the capacity to manage

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

The existing sources of funding are **secure over the medium-term** and **planning is underway to secure funding over the long-term**

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

There is a gap in funding between federal and regional protected areas. The budget of federal PAs is acceptable, though could be further improved to fully meet the management needs. In contrast, funding of regional parks is inadequate for basic management needs and presents a serious constraint to the capacity to manage.

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	60 %	40 %
6.1.6.2	Women	40 %	60 %
		Total 100 %	Total 100 %

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

Human resources **partly meet** the management needs of the World Heritage property

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

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

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

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

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.

Not relevant

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?

A site-based capacity building plan or programme is in place and partially implemented; some technical skills are being transferred to those managing the property locally, **but most technical work is carried out by external staff**

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

Federal authorities significantly exceed regional ones in human resources capacities and access to training. There is also a gap between the World Heritage Convention and its implementation on the ground. In fact, local staff has limited knowledge on the WHC and its procedures. The WHC might consider recommending that state parties designate, train and periodically evaluate experts responsible for the WHC procedures (at least one per site / component).

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 with local communities and some national agencies**

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

Federal PAs have strong research and monitoring programmes, corresponding to management needs and/or improving understanding of OUV. They also properly maintain the knowledge base, share and actively promote outcomes. Research in regional PA is sporadic and mostly led by external agencies. The knowledge management is poorly organised and may lead to loss of research and monitoring records.

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	Fair
Local/municipal authorities	Fair
Indigenous peoples	Poor
Landowners	Fair
Women	Fair
Youth/children	Fair
Researchers	Good
Local visitors	Fair
National/international tourists	Good
Tourism industry	Good
Local businesses and industries	Fair
NGOs	Good
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 a **planned and effective education and awareness programme** for children and youth that contributes to the protection of the World Heritage property

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

Local communities
Local/municipal authorities
Indigenous peoples
Women
Youth/children
Local Visitors
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	Fair
Site museum	Fair
Information booths	Fair

Guided tours	Fair
Trails/routes	Fair
Printed information materials	Fair
Online (website, social media, etc.)	Fair
Transportation facilities	Poor
Other	Not needed
If 'Other' is selected, please specify	

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

As with other elements, federal PAs have stronger education programmes and facilities, whereas regional parks are constrained by a lack of capacities with slight improvements showed over the last 3 years. Overall "fair" score is an average from "good" performance of the federal PAs and "poor" to "fair" results in regional parks.

9. Visitor Management

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

71500 / 39700 / 34000 / 38400 / 35400 /

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

Entry tickets and registries

Tourism industry

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

One to three hours

9.4 - Please provide the source of information

The main data source is site managers' statistics. Data on regional parks might not reflect all visitors (some locations do not require entry tickets / permits and, thus, respective visitors are not registered with the site manager books).

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

115 / 50 / 325 / 2 / 40 / 35 /

9.6 - Please provide the source of information

The main data source is site managers' analytics. Exchange rate as of 30 July 2023. Lodging: 160USD in federal PAs, 70USD in regional PAs Transportation: 500USD helicopter tours (mostly federal PAs); 150USD by car (mostly regional PAs) Admission fees: 3.5USD in federal PAs, 1.75USD in regional PAs Recreation fees: 75USD in federal PAs, 5.5USD in regional PAs

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 **strategy** to manage visitors, tourism activity and its derived impacts on the World Heritage property but there are **some deficiencies in implementation**

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

Federal PAs conduct systematic work on visitation management. These include environmental assessment and impact monitoring, the development of visitation facilities (visitor centres, trails, etc.), interpretation and education on the Property's values. Lacking capacities, regional PAs currently provide only basic visitation infrastructure. Positive changes (incl. an increase in state funding) have been observed in the last 2-3 years and are expected to continue.

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

Visitor use of the World Heritage property is managed but **improvements could be made**

9.10 - Is the effectiveness of tourism management regularly monitored?

Yes, using a different system

If a different system, please specify

A set of monitoring parameters, including environmental and economic indicators (in regional PAs – basic statistics on visitation and observation of the sites state).

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 **limited 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 presentation and interpretation of the Outstanding Universal Value of the property is **acceptable but improvements could be made**

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

In **many locations** 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?

Yes

If 'Yes', please specify

A fair portion of local businesses promote environmentally responsible tourism, including the principle of "leave-no-trace".

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

Yes

If 'Yes', please specify

Local communities and businesses are involved in tourism activities, receiving direct financial benefits.

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 considerable monitoring but it is not directed towards management needs and/or improving the understanding of 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 for measuring the state of conservation and are being used in monitoring of how the Outstanding Universal value of the property is being maintained

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

The monitoring systems in both federal and regional PAs are designed to provide inputs for national reporting, which has limited connection to the WHC. The following data is available to measure the state of conservation of the Property – biodiversity and ecosystem indicators, natural disasters statistics, visitation data, financial and operations figures.

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

World Heritage managers/coordinators and staff	Good
Local/municipal authorities	Poor
Local communities	Poor
Indigenous peoples	Poor
Landowners	Fair
Women	Good
Researchers	Good
Tourism industry	Poor
Local businesses and industry	Poor
NGOs	Good
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.

Following the Mission Report of 2019 and the Decision of COP44, the State Parties has been working on the implementation of recommendations from the WHC. The work is coordinated by the Action Plan developed in cooperation between federal and regional authorities. The Action Plan covers 3 key topics – 1. Measures to improve the management system of the property. 2. Measures to verify the boundaries and areas of the Property components. 3. Measures to prevent and minimize threats to OUV.

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

Overall, the Property has a comprehensive monitoring system that provides data relevant to management needs. Although the monitoring programme is tailored to national reporting, it also allows to compile information and measure the state of conservation of the Property under the WHC.

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, but there is a need for one	✘
5.1.4	The property has no known and recognised buffer zone	
5.2	Protective Measures	
5.2.3	An adequate legal framework for maintaining of the Outstanding Universal Value including conditions of Authenticity and/or Integrity of the World Heritage property exists but there are some deficiencies in implementation	
5.2.4	The property has no buffer zone	
5.2.5	An adequate legal framework exists for the broader setting of the World Heritage property and the buffer zone, but there are some deficiencies in implementation which undermine the maintenance of the Outstanding Universal Value including conditions of Authenticity and/or Integrity of the property	✘
5.2.6	There are major deficiencies in capacity/resources to enforce legislation and/or regulation in the World Heritage property	
5.3	Management System/Management Plan	
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	
5.3.11	There is coordination between the range of administrative bodies involved in the management of the property, but it could be improved	✘
5.3.12	The management system/plan is only partially adequate to maintain the property's Outstanding Universal Value	✘
5.3.13	The management system at the property is only being partially implemented	
6.1	Funding	
6.1.3	The available budget is inadequate for basic management needs and presents a serious constraint to the capacity to manage the World Heritage property	✘
6.1.7	Human resources partly meet the management needs of the World Heritage property	✘
6.1.10	No use has been made of the World Heritage Strategy for Capacity Development at the World Heritage property	
6.1.12	A site-based capacity building plan or programme is in place and partially implemented; some technical skills are being transferred to those managing the property locally, but most technical work is carried out by external staff	
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	✘
9	Visitor Management	
9.7	There is a strategy to manage visitors, tourism activity and its derived impacts on the World Heritage property but there are some deficiencies in implementation	✘
9.9	Visitor use of the World Heritage property is managed but improvements could be made	✘
9.11	There is limited cooperation between those responsible for the World Heritage property and the tourism industry to present the Outstanding Universal Value and increase appreciation	
9.12	The presentation and interpretation of the Outstanding Universal Value of the property is acceptable but improvements could be made	
10	Monitoring	
10.1	There is considerable monitoring at the World Heritage property but it is not directed towards management needs and/or improving understanding of Outstanding Universal Value	

Please select 0 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

4.2 Transportation Infrastructure							
4.2.5	Effects arising from use of transportation infrastructure	Criterion (vii): landscapes of exceptional natural beauty - visual and aesthetic significance Criterion (ix): a wide range of near pristine terrestrial ecosystems (subarctic and boreal) – naturalness and intactness of ecological processes and systems	1: Limit infrastructure development to restricted areas 2: Implement traffic control measures	Monitor impact on ecosystem (soil erosion, spills, litter)	Ongoing	PA managers; authorities responsible for road exploitation	None
4.5 Biological resource use/modification							
4.5.1	Fishing/collecting aquatic resources	Criterion (x): the most important and significant natural habitats for in situ conservation of biological diversity – the greatest diversity of salmonid fish; viability of populations	1: Continue anti-poaching activities: patrolling territories; fish and fish products traffic control, etc. 2: Promote sustainable exploitation: science-informed decisions on quotas; sustainable value chains, etc.	Monitor salmon fish populations	Ongoing	PA managers; authorities responsible for fisheries control / regulation; Kamchatka regional administration	None
4.7 Local conditions affecting physical fabric							
4.7.3	Temperature	Criterion (vii): landscapes of exceptional natural beauty - visual and aesthetic significance Criterion (ix): a wide range of near pristine terrestrial ecosystems – naturalness and intactness of ecological processes and systems	1: Develop and implement climate change monitoring and adaptation strategy (programme) 2: Improve wildfire prevention and mitigation	1: Climate change monitoring 2: Wildfire monitoring and alert system	1: 2023-2025 - development and piloting; 2025-2030 - full implementation, including adaptation measures 2: Ongoing	1: PAs managers, their supervising agencies and research institutions 2: PAs managers; forest managing authorities	None
4.7.6	Water (rain/water table)	Criterion (vii): landscapes of exceptional natural beauty - visual and aesthetic significance Criterion (ix): a wide range of near pristine terrestrial ecosystems – naturalness and intactness of ecological processes and systems	1: Develop and implement climate change monitoring and adaptation strategy (programme) 2: Increase disaster risks control and mitigation	1: Climate change monitoring 2: Nature disaster monitoring and prediction	1: 2023-2025 - development and piloting; 2025-2030 - full implementation, including adaptation measures 2: Ongoing	1: PAs managers, their supervising agencies and research institutions 2: Kamchatka regional administration; federal disaster control and mitigation agency	None
4.8 Social/Cultural uses of heritage							
4.8.2	Society's valuing of heritage	Criterion (ix): a wide range of near pristine terrestrial ecosystems – naturalness and intactness of ecological processes and systems Criterion (x): the most important and significant natural habitats for in situ conservation	Continue work on community engagement and nature education, targeting a wide range of stakeholders	Surveys on society's knowledge, understanding and valuing of the World Heritage. Evaluation of effectiveness of engagement and educational campaigns	Ongoing	PAs managers	None

4.8.5	Identity, social cohesion, changes in local population and community	Criterion (vii): landscapes of exceptional natural beauty - visual and aesthetic significance Criterion (ix): a wide range of near pristine ecosystems Criterion (x): the most important / significant natural habitats for in situ conservation	1: Promote wider engagement with local communities, including assess to and sharing benefits from the activities involving the World Heritage Site 2: Continue work on community engagement and nature education, targeting a wide range of stakeholders	Community engagement, inclusion and diversity indicators	Ongoing	PAs managers	None
4.8.6	Impacts of tourism/Visitation/Recreation	Criterion (vii): landscapes of exceptional natural beauty - visual and aesthetic significance Criterion (ix): a wide range of near pristine ecosystems Criterion (x): the most important / significant natural habitats for in situ conservation	1: Develop and implement a strategy / programme / plans on tourism (incl. impact assessment, creation of visitation facilities, visitation control, monitoring) 2: Promote sustainable tourism practices	1. Tourism and visitation indicators (number, composition, financial contribution to PA, etc). 2. Impact on ecosystems (landscape degradation, biodiversity indicators, etc).	Ongoing	1: PAs managers and their supervising authorities 2: Kamchatka regional administration	None

4.10 Climate change and severe weather events

4.10.6	Temperature change	Criterion (vii): landscapes of exceptional natural beauty - visual and aesthetic significance Criterion (ix): a wide range of near pristine terrestrial ecosystems – naturalness and intactness of ecological processes and systems	Develop and implement climate change monitoring and adaptation strategy (programme)	1: Climate change monitoring 2: Nature disaster monitoring and prediction	2023-2025 - development and piloting; 2025-2030 - full implementation, including adaptation measures	PAs managers, their supervising agencies and research institutions	None
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4.11 Sudden ecological or geological events

4.11.1	Volcanic eruption	Volcanic activity contributes to / is an attribute of the overall OUV of the Property. It affects all the criteria, but should not be considered as a threat.	Observe volcanic activity Implement safety protocols for tourism and other activities at the Property	Volcanic activity and its impact on ecosystems Safety indicators	Ongoing	Research institutions; PAs managers; disaster control and mitigation agency	None
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4.13 Management and institutional factors

4.13.5	Financial resources	Criterion (vii): landscapes of exceptional natural beauty - visual and aesthetic significance Criterion (ix): a wide range of near pristine ecosystems Criterion (x): the most important / significant natural habitats for in situ conservation	1: Increase state funding for PAs and heritage protection activities 2: Expand external fundraising / develop alternative nature finance instruments	Monitor financial indicators (provided/raised funds, effectiveness of spending, etc.)	Ongoing	1: Federal environmental ministry; Kamchatka regional administration 2: PAs managers	None
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Summary - Factors affecting the Property completed

12.2. Summary - Management Needs

12.2.1 - Summary - Management Needs

5.1	Boundaries and Buffer Zones					
	Actions	Timeframe	Lead agency (and others involved)	More info / comment		
5.1.3	The property has no buffer zone, but there is a need for one	Design and set up buffer zone(s). 2021-2025	Management authorities of the federal and regional PAs.	Work in progress.		

5.2	Protective Measures				
5.2.5	An adequate legal framework exists for the broader setting of the World Heritage property and the buffer zone, but there are some deficiencies in implementation which undermine the maintenance of the Outstanding Universal Value including conditions of Authenticity and/or Integrity of the property	Improve regulation of tourism activities inside and in the vicinity of the Property (i.e. promote and enforce sustainable tourism). Potential measures include environmental assessments and monitoring, visitation limits, sustainable finance schemes.	2023-2026	The federal Ministry of Natural Resources and Environment; regional authorities; site managers.	Work in progress.
5.3	Management System/Management Plan				
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	Develop Site Policy on the Impacts of Climate Change.	2024-2026	Management authorities of the federal and regional PAs.	Work in progress.
5.3.11	There is coordination between the range of administrative bodies involved in the management of the property, but it could be improved	Establish a framework for regular consultations and data exchange.	2023-2024	Management authorities of the federal and regional PAs.	Work in progress.
5.3.12	The management system/plan is only partially adequate to maintain the property's Outstanding Universal Value	Revise and update management plan(s) / incorporate adequate measures o maintain the property's Outstanding Universal Value.	2024-2026	Management authorities of the federal and regional PAs.	Work in progress.
6.1	Funding				
6.1.3	The available budget is inadequate for basic management needs and presents a serious constraint to the capacity to manage the World Heritage property	Substantially increase provision of financial resources.	2024-2030	Federal and regional governments (state funding); management authorities of the federal and regional PAs (external fundraising and nature finances schemes).	Work in progress.
6.1.7	Human resources partly meet the management needs of the World Heritage property	Substantially increase human resources capacities.	2024-2030	Federal and regional governments; management authorities of the federal and regional PAs.	Work in progress.

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	Promote integration between national reporting and monitoring for the WHC	2024-2026	Federal and regional governments; management authorities of the federal and regional PAs.	Work in progress.
9 Visitor Management					
9.7	There is a strategy to manage visitors, tourism activity and its derived impacts on the World Heritage property but there are some deficiencies in implementation	Improve regulation of tourism activities inside and in the vicinity of the Property (i.e. promote and enforce sustainable tourism). Potential measures include environmental assessments and monitoring, visitation limits, sustainable finance schemes.	2023-2026	The federal Ministry of Natural Resources and Environment; regional authorities; site managers.	Work in progress.
9.9	Visitor use of the World Heritage property is managed but improvements could be made	Improve visitation facilities (visit centres, trails, navigation), integrating interpretation and education on the Property's OUV.	2023-2030	Site managers	Work in progress.

Summary - Management Needs completed

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?

Not applicable (sites inscribed exclusively under criteria vii to x (natural World Heritage properties))

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 impacted by factors described in this report, but this situation is being addressed through effective management actions.**

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

Other important cultural and/or natural values and the state of conservation of the World Heritage property are **intact**

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

Overall, the OUV and its attributes are well-preserved. Landscapes of exceptional natural beauty have retained their visual and aesthetic significance. Natural habitats are preserved at scale, supporting the diversity and viability of key species populations (with few exceptions in a mammal group). In some parts of the Property, ecosystems are affected by projects of significant socio-economic importance. The impact is limited, and the State Party implements conservation measures.

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	Positive
Management effectiveness	Positive
Quality of life for local communities and indigenous peoples	Positive
Recognition	Very positive
Education	Very positive
Infrastructure development	Positive

Funding for the property	Positive
International cooperation	Positive
Political support for conservation	Positive
Legal/Policy framework	Positive
Advocacy	Positive
Institutional coordination	Positive
Security	Positive
Gender equality	Positive
Provision of ecosystem services/ benefits to local communities	Positive
Social inclusion and equity, and improvement of opportunities for all, irrespective of age, sex, disability, ethnicity, origin, religion, or economic or other status	No impact
Fostering inclusive local economic development and enhancing livelihood	Positive
Contributing to conflict prevention, including respect for cultural diversity within and around heritage properties	Positive
Other	Very positive
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

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

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 <i>World Heritage Convention</i>	
The concept of Outstanding Universal Value	
The property's Outstanding Universal Value	
The concept of Integrity and/or Authenticity	
The property's Integrity and/or Authenticity	
Management effectiveness to maintain the Outstanding Universal Value	
Monitoring and reporting	

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

State Party	Fair
Site Managers	Fair
UNESCO World Heritage Centre	Fair
Advisory Bodies (ICOMOS, IUCN, ICCROM)	Fair

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

Data on the regional parks might include inaccuracies due to lack of capacity for effective documentation and knowledge management. The data gathering did not involve stakeholder consultations; the form was mainly filled by the Site Manager.

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
Staff from other World Heritage properties

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

Gender balance has been **given limited consideration** and implementation is in 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

240 / 40 / 40 /

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

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

15.4. Format and content of the Periodic Report

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

Not 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			X	
15.4.2.2	Clarity of questions			X	

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

1. For a complex (multi-component) properties, it would be great to provide all site managers with opportunities to directly contribute to the form (or at least involve them in communications / info exchange on upcoming requests and training opportunities). 2. If possible, synchronise the questionnaire with national reporting standards.

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	No support
ICOMOS International	Not applicable
IUCN International	Fair
ICCROM international/regional	Not applicable
ICOMOS national/regional	Not applicable
IUCN national/regional	No support

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)	No support
UNESCO other sectors (e.g. field office)	Not applicable
National Commission for UNESCO	No support
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?

They are well-designed and adequate, though hardly accessible by the majority of staff due to the language barrier.

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

- **Geographic information table**

Reason for update: Following the Monitoring Mission of 2019, the State Party initiated work on improving the management of the Property. The State considers transforming at least two of the regional parks into a one federal national park with a stricter protection regime. This restructuring would reduce a number of components and require a technical revision of maps and the description of boundaries. The State Party will properly inform and consult with the WHC after completing assessments and analysis.

- **Map(s)**

Reason for update: In addition to the comment on Q1.3, the State Party plans to duly consult with the WHC on few minor modifications to the boundaries of the Property. These minor modifications concern the regional parks and mainly reflect the technical revision of their boundaries as a result of the development of cadastral records.

Changes to these items will need to go through the proper processes.

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.