

# Lorentz National Park

## 1. World Heritage Property Data

### 1.1 - Name of World Heritage property


Lorentz National Park

### 1.2 - World Heritage property details

### 1.3 - Geographic information table

Name	Coordinates	Property (ha)	Buffer zone (ha)	Total (ha)	Inscription year
Lorentz National Park	-4.75 / 137.833	2350000	0	2350000	1999
Total (ha)		2350000	0	2350000	

### 1.4 - Map(s)

Title	Date	Link to source
Lorentz National Park Nominated Site	1988	

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

1. [Natural site datasheet from WCMC](#)

## 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	<b>International Register of Cultural Property under Special Protection</b> (1954 Hague Convention for the Protection of Cultural Property in the Event of Armed Conflict)		×
2.1.2	<b>List of Cultural Property under Enhanced Protection</b> (Second Protocol to the 1954 Hague Convention for the Protection of Cultural Property in the Event of Armed Conflict)		×
2.1.3	<b>The List of Wetlands of International Importance (The Ramsar List)</b> (Convention on Wetlands of International Importance (Ramsar Convention))		×
2.1.4	<b>World Network of Biosphere Reserves</b> Man and the Biosphere (MAB) Programme		×
2.1.5	<b>Global Geoparks Network</b> UNESCO Global Geoparks		×

### 2.2 - Please provide comments on 2.1 if necessary

No comments yet

**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?**

No

**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 <b>no contact</b> with the Focal Point(s) of this designation/programme.	✕
2.7.2	The World Heritage Site Manager <b>occasionally</b> communicates with the Focal Point(s) of this designation/programme.	
2.7.3	The World Heritage Site Manager <b>regularly</b> communicates with the Focal Point(s) of this designation/programme.	
2.7.4	The World Heritage Site Manager <b>also manages</b> 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 <b>no contact</b> with the Focal Point(s) of this designation/programme.	✕
2.7.2	The World Heritage Site Manager <b>occasionally</b> communicates with the Focal Point(s) of this designation/programme.	
2.7.3	The World Heritage Site Manager <b>regularly</b> communicates with the Focal Point(s) of this designation/programme.	
2.7.4	The World Heritage Site Manager <b>also manages</b> this designation/programme.	
2.7.3	Convention on Wetlands of International Importance (Ramsar Convention)	
2.7.1	There is <b>no contact</b> with the Focal Point(s) of this designation/programme.	✕
2.7.2	The World Heritage Site Manager <b>occasionally</b> communicates with the Focal Point(s) of this designation/programme.	
2.7.3	The World Heritage Site Manager <b>regularly</b> communicates with the Focal Point(s) of this designation/programme.	
2.7.4	The World Heritage Site Manager <b>also manages</b> this designation/programme.	
2.7.4	Man and the Biosphere (MAB) Programme	
2.7.1	There is <b>no contact</b> with the Focal Point(s) of this designation/programme.	✕
2.7.2	The World Heritage Site Manager <b>occasionally</b> communicates with the Focal Point(s) of this designation/programme.	
2.7.3	The World Heritage Site Manager <b>regularly</b> communicates with the Focal Point(s) of this designation/programme.	
2.7.4	The World Heritage Site Manager <b>also manages</b> this designation/programme.	
2.7.5	UNESCO Global Geoparks	
2.7.1	There is <b>no contact</b> with the Focal Point(s) of this designation/programme.	✕
2.7.2	The World Heritage Site Manager <b>occasionally</b> communicates with the Focal Point(s) of this designation/programme.	
2.7.3	The World Heritage Site Manager <b>regularly</b> communicates with the Focal Point(s) of this designation/programme.	
2.7.4	The World Heritage Site Manager <b>also manages</b> this designation/programme.	

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

The Lorentz National Park Area also has the status of an ASEAN Heritage Park (AHP) in the Southeast Asia Region

## 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?

Yes

## 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

Noken (woven bag or handcraft of the people of Papua)

## 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 yet

## 3. Statement of Outstanding Universal Value

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

#### Statement of Outstanding Universal Value

##### Brief synthesis

Lorentz National Park

Lorentz National Park is located in Indonesia's Papua Province, along the 'Pegunungan Mandala' range, whose Puncak Cartenz (4884 m asl) is the highest peak in Southeast Asia. The property covers an area of 2.35 million hectares, making it the largest conservation area in Southeast Asia and stretches for over 150 km from Irian Jaya's central cordillera mountains in the north to the Arafura Sea in the south.

Designated as a National Park in 1997 under Decree of the Minister of Forestry the property contains an outstanding range of ecosystems, representative of the high level of biodiversity found across the region. It is one of only three tropical regions in the world that have glaciers and its mosaic of land systems ranges from snow-capped mountain peaks to extensive lowland wetlands and coastal areas. The property also contains fossil sites, a high level of endemism and the richest biodiversity in the region.

Thirty-four vegetation types and 29 land systems have been identified within the property along with some 123 recorded mammal species, representing 80% of the total mammalian fauna of Irian Jaya. Mammals recorded include two of the world's three monotremes; the short-beaked echidna (*Tachyglossus aculeatus*), and the long-beaked echidna (*Zaglossus bruijii*) a New Guinea endemic. In addition it is also home to a large number of restricted range (45) and endemic (9) bird species. The property has remarkable, cultural diversity, with seven ethnic groups, maintaining their traditional lifestyles. The highland, communities include the Amungme (Damal), Dani Barat, Dani Lembah Baliem, Moni and Nduga, whereas in the lowlands there are Asmat, Kamoro and Sempan.

**Criterion (viii):** The geology and landforms of Lorentz National Park display graphic evidence of earths' history. Located at the meeting point of two colliding continental plates, the area has a complex geology with ongoing mountain formation as well as major sculpting by glaciation and shoreline accretion. The dominating mountain range is a direct product of the collision between the Australian and Pacific tectonic plates and the property contains the highest points of the mountains of Papua New Guinea and the only remaining glaciers on the island. There is also clear evidence of post glacial shorelines.

Graphically illustrating the geomorphological effect of the last glacial and post-glacial periods, the mountains show all the classical glacial landforms including lakes and moraines. Furthermore, there are five small remnant glaciers. While all five glaciers are retreating rapidly under present climatic conditions, no other tropical glacier fields in the world exhibit glacial evolution as well as those in Lorentz National Park. There is also no better example in the world of the combined effect of collision of tectonic plates and the secondary major sculpting by glacial and post-glacial events.

**Criterion (ix):** Lorentz National Park is the only protected area in the world that incorporates a continuous ecological transect from snow capped mountain peaks to a tropical marine environment, including extensive lowland wetlands. The geophysical processes and high rainfall found along this transect are consistent with the development of significant on-going ecological processes as is the division of the property into two distinct zones: the swampy lowlands and the high mountain area of the central cordillera. The climatic gradient, the greatest throughout the island of New Guinea and the entire Australian tectonic region, extends from nival zones and glaciers to lowland equatorial zones with an associated extreme range of faunal and floral species and communities.

Lorentz National Park provides evidence of highly developed endemism in both plants and animals, especially for the higher altitudes of the mountains, as expected in a region combining on-going uplift and climatic warming.

**Criterion (x):** The mountain building processes that have occurred over time have provided temperate refuges in the tropics for ancient Gondwanan plant species during the climatic warming that has occurred since the last ice age. For example, Lorentz National Park's Nothofagus beech forests are well represented, although their closest relatives are otherwise confined to the cool temperate regions of south-eastern Australia, New Zealand and the southern Andes. The property is more than just the habitat for many rare, endemic and restricted range species. Its large size and exceptional natural integrity makes it especially important for their on-going evolution as well as their long term conservation.

The refugial effect or local genetic evolution, or both, are manifest as locally endemic species or restricted range species. Much of the rich biota of Lorentz National Park is new or of special interest to science. A number of mammal species, including recent discoveries like the Dingiso tree kangaroo (*Dendrolagus mbaiso*) discovered in 1994, have evolved to utilize the specialized habitats within the property.

The property covers substantial areas of two identified Endemic Bird Areas (EBAs) with a total of 45 restricted range birds and nine endemic species. Two of the restricted range bird species, Archbold's bowerbird (*Archboldia papuensis*), and MacGregor's bird-of-paradise (*Macgregoria pulchra*), are considered rare and vulnerable. Mammals recorded within the property include two of the world's three monotremes; the short-beaked echidna (*Tachyglossus aculeatus*), and the long-beaked echidna (*Zaglossus bruijii*) a New Guinea endemic. Lorentz National Park will become increasingly important for long term conservation of the species already recorded and the many that remain to be discovered.

### Integrity

One of the outstanding features of the property is its large size, stretching for over 150 km from Irian Jaya's central cordillera mountains in the north to the Arafura Sea in the south and covering 2.5 million ha, it is the largest protected area in Southeast Asia, making it a globally significant large tract of intact tropical forest. It is the only protected area in the world that incorporates a continuous ecological transect from snow capped mountains to a tropical marine environment, including extensive lowland wetlands and protecting a complex of river catchments that extend from the tropical ice-cap to the tropical sea. The extensive size of the property is one of the guarantees ensuring the integrity of the habitats it hosts, ranging from glaciers, alpine vegetation, montane forest, lowland wet forest, freshwater marsh, to the coastal mangrove forests in the Arafura Sea. The large area included within the boundaries also assists in maintaining the high level of biodiversity found in the park including numerous endemic species.

Several threats need to be addressed to ensure the integrity of the park including; development pressures, road construction, boundary demarcation, mining activity, petroleum exploration, illegal logging, impacts from human residents and limited management capacities and resources. There is a need to develop a comprehensive management plan for the property which addresses the issue of limited effective field management as well as long term protection of the property from on-going threats. The size of the property, while providing an inherent degree of protection, also greatly influences the level of funding, staff capacity and technical expertise required to effectively manage. These issues and threats need to be addressed in more detail to ensure the outstanding universal value of the park remains intact and its stewardship is assured. Previously identified threats, such as unclear boundaries of the property and illegal fishing activities, are no longer considered as major threats, but require continued monitoring to ensure the maintenance of the integrity of the property.

### Protection and management requirements

The management of Lorentz National Park World Heritage Property is under the authority of the Directorate General of Forest Protection and Nature Conservation, Ministry of Forestry, Republic of Indonesia. The first formal protection offered to the property covered a core area of the Lorentz landscape and was applied in 1919 by the Dutch Colonial Government and removed as a result of conflict with local people over land ownership. A Strict Nature Reserve was subsequently established in 1978 with Lorentz National Park (2,505,600 ha) established by Ministerial Decree in 1997 under Law No. 41 on Forestry, 1999. The property is also covered by Law No. 5 of 1990 Concerning Conservation of Biodiversity and Ecosystems.

Responsibility for management of protected areas in Indonesia sits with the Directorate of Forest Protection and Nature Conservation (PHKA) within the Department of Forestry in the Central Government. Operational management has been conducted by Lorentz National Park Bureau (Balai Taman Nasional Lorentz) since 2007 under the Minister of Forestry regulation 29/2006 which established the management structure for the property.

The Strategic Plan, the long term management plan and the zoning system are under development through broad and participatory processes involving related stakeholders. Long-term management tools address current and future threats including the establishment of new districts and road development within the property. Despite limited technical and financial resources, regular patrolling activities carried out to detect and halt illegal activities in the park. Nevertheless, additional resources are needed. To assist in addressing and overcoming this problem, the "Friends of Lorentz" initiative has been endorsed by a broad range of

national and international partners, and aims to mobilize long term financial and technical assistance, as well as much needed capacity building for the effective management of the property.

The Indonesian Ministry of Forestry has requested the local government to monitor and halt continued work on a number of developments, including the existing and planned road developments within the boundaries of the property. In addition, the World Heritage Working Group under the Coordinating Ministry of Social Welfare as the national focal point for World Heritage is establishing an intergovernmental coordination unit to address this issue and ensure continued monitoring of road developments.

International experts are being identified by the National Park management authority to provide advice and technical assistance to combat forest die-back caused by *Phytophthora* disease in *Nothofagus* forests. The private sector is also engaged providing necessary financial support. In addition, acknowledging the importance of involving indigenous communities in the effective protection of the park, communication channels are being forged with local indigenous organizations. This collaboration is key to facilitating negotiation and conflict resolution between different tribes as well as in carrying out comprehensive studies on the biodiversity and natural resources in areas where indigenous communities live.

Comment

There is a change in nomenclature at the Center, namely the Ministry of Environment and Forestry, as well as the Directorate General of KSDAE. The institutional structure of the Lorentz National Park is regulated in Permenlhk No. 47/2016 as an amendment to Permenlhk No. 7/2016. For management activities, Lorentz National Park has referred to the Zoning System which was approved in December 2018 and the Long-Term Management Plan which was passed in November 2020.

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	Flora and Fauna Endemic	✕			
3.2.2	Wetland Ecosystem	✕			
3.2.3	Geological Proses	✕			
3.2.4	Social and Culture	✕			
3.2.5	Panorama and Uniqueness	✕			
3.2.6	Nothofagus plants		✕		
3.2.7	Glacier		✕		
3.2.8	Dendrolagus mbaiso	✕			
3.2.9	Macgregoria pulchra	✕			
3.2.10	Paradisaea apoda	✕			
3.2.11	Zaglossus sp.	✕			
3.2.12	Cyathea sp.	✕			
3.2.13	Casuarius sp.	✕			
3.2.14	Phalanger spp.	✕			
3.2.15	Anurophasis monorthonyx	✕			

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

Every year the Lorentz National Park Office continues to supervise and evaluate the management of the area. Inventory activities and verification of area potential are carried out continuously. The *Nothofagus* forest stands are still in the study stage to determine the cause of death. The loss of snow cover will continue as the world climate improves.

4. Factors Affecting the Property

4.1. Buildings and Development

4.1.1 - Housing

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

- Relevant, Negative, Current, Inside

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

4.1.2 - Commercial development

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

- Relevant, Negative, Potential, Outside

Relevant

✖ Not relevant

#### 4.1.3 - Industrial areas

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

- Not relevant

Relevant

✖ Not relevant

#### 4.1.4 - Major visitor accommodation and associated infrastructure

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

- Not relevant

Relevant

✖ Not relevant

#### 4.1.5 - Interpretative and visitation facilities

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

- Relevant, Positive, Current, Outside

✖ Relevant

Not relevant

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

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

Building and Development: Housing: has the potential to cause new open areas within the area and increase violation activity Interpretative and visitation facilities: is expected to increase interest and number of visits, increase new source of income to the community, and create business opportunities and job opportunities

### 4.2. Transportation Infrastructure

#### 4.2.1 - Ground transport infrastructure

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

- Relevant, Negative, Current, Outside

✖ Relevant

Not relevant

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

#### 4.2.2 - Underground transport infrastructure

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

- Relevant, Positive, Current, Outside

Relevant

✖ Not relevant

#### 4.2.3 - Air transport infrastructure

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

- Not relevant

✖ Relevant

Not relevant

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










#### 4.2.4 - Marine transport infrastructure

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

- Relevant, Negative, Current, Inside, Outside

✖ Relevant

Not relevant

	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 (29/07/2011):

- Not relevant

Relevant	✕ Not relevant
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#### 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

The entire transportation infrastructure development process is always in consultation with the area manager and several infrastructure projects have been cooperated. This facility is very helpful for officers to reach a wider area and assist local communities in marketing agricultural products to increase their source of income

### 4.3. Services Infrastructures

#### 4.3.1 - Water infrastructure

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

- Not relevant

Relevant	✕ Not relevant
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#### 4.3.2 - Renewable energy facilities

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

- Not relevant

Relevant	✕ Not relevant
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#### 4.3.3 - Non-renewable energy facilities

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

- Not relevant






Relevant	✕ Not relevant
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#### 4.3.4 - Localised utilities

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

- Not relevant

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

#### 4.3.5 - Major linear utilities

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

- Not relevant

Relevant	✕ Not relevant
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#### 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

It is hoped that the management unit can utilize it through the implementation of an effective online-based monitoring system and facilitate a better communication system. The development process is always in consultation with the area manager.

### 4.4. Pollution

#### 4.4.1 - Pollution of marine waters

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

- Not relevant

Relevant	✕ Not relevant
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4.4.2 - Ground water pollution

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

- Not relevant

Relevant	✕ Not relevant
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4.4.3 - Surface water pollution

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

- Relevant, Negative, Potential, Inside, Outside

Relevant	✕ Not relevant
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4.4.4 - Air pollution

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

- Not relevant











Relevant	✕ Not relevant
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4.4.5 - Solid waste

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

- Relevant, Negative, Potential, Outside

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

4.4.6 - Input of excess energy

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

- Not relevant

Relevant	✕ 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

The management unit continues to carry out strict supervision with related parties and carry out effective cooperation in order to reduce the negative impacts that may arise.

4.5. Biological resource use/modification

4.5.1 - Fishing/collecting aquatic resources

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

- Relevant, Negative, Potential, Inside, Outside

Relevant	✕ Not relevant
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4.5.2 - Aquaculture

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

- Relevant, Negative, Potential, Outside

Relevant	✕ Not relevant
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4.5.3 - Land conversion

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

- Not relevant

Relevant	✕ Not relevant
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4.5.4 - Livestock farming/Grazing of domesticated animals

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

- Relevant, Negative, Potential, Inside

Relevant	✕ Not relevant
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#### 4.5.5 - Crop production

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

- Relevant, Negative, Potential, Inside

Relevant	✕ Not relevant
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#### 4.5.6 - Commercial wild plant collection

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

- Relevant, Negative, Current, Inside, Outside

Relevant	✕ Not relevant
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#### 4.5.7 - Subsistence wild plant collection

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

- Relevant, Negative, Potential, Inside

Relevant	✕ Not relevant
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#### 4.5.8 - Commercial hunting

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

- Relevant, Negative, Current, Inside, Outside

Relevant	✕ Not relevant
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#### 4.5.9 - Subsistence hunting

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

- Relevant, Negative, Potential, Inside

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

#### 4.5.10 - Forestry/Wood production

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

- Relevant, Negative, Current, Inside, Outside

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

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

Local people still use the resources available in nature to fulfill their daily needs that have been done from generation to generation. However, the Management Unit continues to disseminate awareness to all elements of society and related parties about the importance of the existence of the area. The Management Unit also continues to develop community empowerment programs as a solution to a sustainable source of community income.

### 4.6. Physical resource extraction

#### 4.6.1 - Mining

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

- Not relevant

Relevant	✕ Not relevant
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#### 4.6.2 - Quarrying

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

- Not relevant

Relevant	✕ Not relevant
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4.6.3 - Oil and gas

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

- Not relevant

Relevant

✕ Not relevant

4.6.4 - Water (extraction)

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

- Not relevant

Relevant

✕ Not relevant

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

Until now, there has been no data or activity that has been monitored and has had an effect on the area.

4.7. Local conditions affecting physical fabric

4.7.1 - Wind

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

- Not relevant

Relevant

✕ Not relevant

4.7.2 - Relative humidity

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

- Not relevant

Relevant

✕ Not relevant

4.7.3 - Temperature

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

- Relevant, Negative, Current, Outside

✕ Relevant

Not relevant

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

4.7.4 - Radiation/Light

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

- Not relevant

Relevant

✕ Not relevant

4.7.5 - Dust

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

- Not relevant

Relevant

✕ Not relevant

4.7.6 - Water (rain/water table)

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

- Not relevant

Relevant

✕ Not relevant

4.7.7 - Pests

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

- Not relevant

Relevant

✕ Not relevant

4.7.8 - Micro-organisms

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

- Not relevant

Relevant	✕ 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

Increasing global temperatures greatly affect the presence of glacier cover in the Lorentz National Park.

### 4.8. Social/Cultural uses of heritage

#### 4.8.1 - Ritual/Spiritual/Religious and associative uses

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

- Relevant, Positive, Current, Inside

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

#### 4.8.2 - Society's valuing of heritage

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

- Relevant, Negative, Potential, Outside

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

#### 4.8.3 - Indigenous hunting, gathering and collecting

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

- Relevant, Negative, Potential, Inside

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

#### 4.8.4 - Changes in traditional ways of life and knowledge system

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

- Relevant, Negative, Potential, Inside, Outside

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

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

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

- Relevant, Negative, Potential, Inside, Outside











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

#### 4.8.6 - Impacts of tourism/Visitation/Recreation

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

- Not relevant

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

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

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

Negative factors affecting inheritance property are continuously minimized through close supervision and encouraging community empowerment efforts. Factors that have a positive tendency continue to be developed as part of taking sides, especially in improving the welfare of the community.

#### 4.9. Other human activities

##### 4.9.1 - Illegal activities

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

- Relevant, Negative, Current, Inside, Outside

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

##### 4.9.2 - Deliberate destruction of heritage

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

- Relevant, Negative, Current, Inside, Outside

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

##### 4.9.3 - Military training

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

- Not relevant

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

##### 4.9.4 - War

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

- Not relevant

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

##### 4.9.5 - Terrorism

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

- Not relevant

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

##### 4.9.6 - Civil unrest

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

- Not relevant

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

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

There is no significant effect on the existence of inherited property.

#### 4.10. Climate change and severe weather events

##### 4.10.1 - Storms

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

- Not relevant

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

##### 4.10.2 - Flooding

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

- Relevant, Negative, Current, Inside, Outside

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

##### 4.10.3 - Drought

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

- Relevant, Negative, Current, Outside

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

#### 4.10.4 - Desertification

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

- Not relevant

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

#### 4.10.5 - Changes to oceanic waters

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

- Not relevant










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

#### 4.10.6 - Temperature change

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

- Relevant, Negative, Current, 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"/>				

#### 4.10.7 - Other climate change impacts

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

- 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

It is predicted that conditions of global temperature change can affect wildlife in the area and are difficult for the area management unit to intervene.

#### 4.11. Sudden ecological or geological events

##### 4.11.1 - Volcanic eruption

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

- Not relevant

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

##### 4.11.2 - Earthquake

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

- Not relevant

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

##### 4.11.3 - Tsunami/Tidal wave

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

- Not relevant











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

##### 4.11.4 - Avalanche/Landslide

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

- Relevant, Negative, Current, Inside

<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"/>				

#### 4.11.5 - Erosion and siltation/Deposition

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

- Relevant, Negative, Current, Inside

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

#### 4.11.6 - Fire (wildfire)

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

- Relevant, Negative, Current, Inside

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

	Impact		Origin		Trend of impact		
Impact	🔥 Current	🔊 Potential	📍 Inside	🌐 Outside	↘ Decreasing	→ Stable	↗ Increasing
🟢 Positive							
🔴 Negative ✕		✕	✕		↘		

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

The potential for landslides usually occurs due to extreme weather (heavy rain) but in a small area. Data on land fires in the area have occurred in 2007 and 2015 due to the existence of the El Nino phenomenon, but the current condition has gradually recovered through a natural succession mechanism that is running well.

#### 4.12. Invasive/alien species or hyper-abundant species

##### 4.12.1 - Translocated species

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

- Relevant, Negative, Current, Outside

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

##### 4.12.2 - Invasive/Alien terrestrial species

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

- Relevant, Negative, Potential, Outside

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

	Impact		Origin		Trend of impact		
Impact	🔥 Current	🔊 Potential	📍 Inside	🌐 Outside	↘ Decreasing	→ Stable	↗ Increasing
🟢 Positive							
🔴 Negative ✕		✕	✕	✕			

##### 4.12.3 - Invasive/Alien freshwater species

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

- Relevant, Negative, Potential, Outside

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

##### 4.12.4 - Invasive/Alien marine species

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

- Not relevant

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

##### 4.12.5 - Hyper-abundant species

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

- Not relevant

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

##### 4.12.6 - Modified genetic material

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

- Not relevant

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

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

Not much data has been collected yet, but as access to the area improves, the potential for invasive species to be carried from outside the area can occur.

### 4.13. Management and institutional factors

#### 4.13.1 - Management system/Management plan

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

#### 4.13.2 - Legal framework

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

#### 4.13.3 - Governance

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

#### 4.13.4 - Management activities

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

- Relevant, Positive, Current, Inside, Outside

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

#### 4.13.5 - Financial resources

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

#### 4.13.6 - Human resources

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

4.13.7 - Low impact research/monitoring activities

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

- Relevant, Positive, Current, Outside

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

4.13.8 - High impact research/monitoring activities

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

- Not relevant

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

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

The reference for management activities is quite good (regulations, management plan documents and zoning), however, the management unit still needs the support of the parties to develop research and monitoring activities in a wide coverage area and adequate funding support and competent human resources.

4.14. Other factor(s)

4.14.1 - Other factor(s)

Encourage the central government to consider the proposal to increase the institutional status of the Lorentz National Park Agency (Echelon III to Echelon II) in order to shorten the span of control of area management so that it is more effective and can reach all management areas.

4.15. Factors Summary Table

4.15.1 - Factors Summary Table

Name	Impact			Origin		Trend
4.1 Buildings and Development						
4.1.1 Housing						
	🛑		🏠	🏠		📈
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	+	🚩	🏠	🏠	🔄	
4.3 Services Infrastructures						
4.3.4 Localised utilities	+	🚩	🏠	🏠		📈
4.4 Pollution						
4.4.5 Solid waste						
	🛑		🏠	🏠		📉

4.5 Biological resource use/modification						
4.5.9 Subsistence hunting						
	⊖		⚠	⊕		↗
4.5.10 Forestry/Wood production						
	⊖	⚠		⊕		↗
4.7 Local conditions affecting physical fabric						
4.7.3 Temperature						
	⊖	⚠	⚠		↻	↗
4.8 Social/Cultural uses of heritage						
4.8.1 Ritual/Spiritual/Religious and associative uses	⊕	⚠	⚠	⊕		↗
4.8.3 Indigenous hunting, gathering and collecting						
	⊖	⚠			↻	↗
4.8.4 Changes in traditional ways of life and knowledge system						
	⊖	⚠		⊕		↗
4.8.5 Identity, social cohesion, changes in local population and community						
	⊖	⚠		⊕		↗
4.8.6 Impacts of tourism/Visitation/Recreation	⊕	⚠	⚠	⊕		↗
4.10 Climate change and severe weather events						
4.10.6 Temperature change						
	⊖		⚠	⊕		
4.11 Sudden ecological or geological events						
4.11.4 Avalanche/Landslide						
	⊖		⚠	⊕		↗
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						
4.13.8 High impact research/monitoring activities						
<b>Legend</b>	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
4.1.1 Housing						







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
---

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

## 4.2 Transportation Infrastructure

Name	Impact			Origin		Trend
4.2.1 Ground transport infrastructure						

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

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

Name	Impact			Origin		Trend
4.2.3 Air transport infrastructure						

<b>Spatial scale - Area affected by the factor</b>	
✕	Restricted
	Localised
	Extensive
	Widespread

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

<b>Impact - Impact on the attributes</b>	
✕	Insignificant
	Minor
	Significant
	Major




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

<b>Trend - Development over the last 6 years</b>	
	Decreasing
✕	Static
	Increasing

Name	Impact			Origin		Trend
4.2.4 Marine transport infrastructure						

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





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

## 4.4 Pollution





Name	Impact			Origin		Trend
4.4.5 Solid waste						
						

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

## 4.5 Biological resource use/modification

Name	Impact			Origin		Trend
4.5.9 Subsistence hunting						
						






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

Name	Impact			Origin		Trend
4.5.10 Forestry/Wood production						
						

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

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






#### 4.7 Local conditions affecting physical fabric

Name	Impact			Origin		Trend
4.7.3 Temperature						
						

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

	Decreasing
	Static
✕	Increasing

## 4.8 Social/Cultural uses of heritage

Name	Impact			Origin		Trend
4.8.1 Ritual/Spiritual/Religious and associative uses						

### Spatial scale - Area affected by the factor

	Restricted
✕	Localised
	Extensive
	Widespread

### Temporal scale - Occurrence of the impact

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

### Impact - Impact on the attributes





✕	Insignificant
	Minor
	Significant
	Major

### Management response - Capacity of management to respond

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

### Trend - Development over the last 6 years

	Decreasing
✕	Static
	Increasing

Name	Impact			Origin		Trend
4.8.3 Indigenous hunting, gathering and collecting						
						





### Spatial scale - Area affected by the factor

✕	Restricted
	Localised
	Extensive
	Widespread

### Temporal scale - Occurrence of the impact







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

Name	Impact			Origin		Trend
4.8.4 Changes in traditional ways of life and knowledge system						
						

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

Name	Impact			Origin		Trend
4.8.5 Identity, social cohesion, changes in local population and community	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<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 checked="" type="checkbox"/>	Localised
<input type="checkbox"/>	Extensive
<input type="checkbox"/>	Widespread

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

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

Management response - Capacity of management to respond	
<input type="checkbox"/>	High capacity
<input 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 checked="" type="checkbox"/>	Decreasing
<input type="checkbox"/>	Static
<input type="checkbox"/>	Increasing




Name	Impact			Origin		Trend
4.8.6 Impacts of tourism/Visitation/Recreation					<input type="checkbox"/>	
	<input type="checkbox"/>	<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 checked="" type="checkbox"/>	Localised
<input type="checkbox"/>	Extensive
<input type="checkbox"/>	Widespread

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

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


#### 4.10 Climate change and severe weather events

Name	Impact			Origin		Trend
4.10.6 Temperature change						
						


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
<b>Trend - Development over the last 6 years</b>	
	Decreasing
	Static
✕	Increasing

#### 4.11 Sudden ecological or geological events

Name	Impact	Origin	Trend
4.11.4 Avalanche/Landslide			
			





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

Name	Impact	Origin	Trend
4.11.6 Fire (wildfire)			
			

<b>Spatial scale - Area affected by the factor</b>	
✕	Restricted
	Localised
	Extensive

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






## 4.12 Invasive/alien species or hyper-abundant species

Name	Impact			Origin		Trend
4.12.2 Invasive/Alien terrestrial species						
						

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

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

#### 4.13 Management and institutional factors

Name	Impact	Origin	Trend
4.13.1 Management system/Management plan	  	 	






<b>Spatial scale - Area affected by the factor</b>	
	Restricted
	Localised
	Extensive
✕	Widespread

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

<b>Impact - Impact on the attributes</b>	
	Insignificant
	Minor
	Significant
✕	Major

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

<b>Trend - Development over the last 6 years</b>	
	Decreasing
	Static
✕	Increasing

Name	Impact	Origin	Trend
4.13.2 Legal framework	  	 	







<b>Spatial scale - Area affected by the factor</b>	
	Restricted

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

Name	Impact			Origin		Trend
4.13.3 Governance						

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

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

Name	Impact	Origin	Trend
4.13.4 Management activities	  	 	






<b>Spatial scale - Area affected by the factor</b>	
	Restricted
	Localised
✕	Extensive
	Widespread

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

<b>Impact - Impact on the attributes</b>	
	Insignificant
	Minor
✕	Significant
	Major

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




<b>Trend - Development over the last 6 years</b>	
	Decreasing
	Static
✕	Increasing

Name	Impact	Origin	Trend
4.13.5 Financial resources	  	 	

<b>Spatial scale - Area affected by the factor</b>	
	Restricted
✕	Localised








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

Name	Impact			Origin		Trend
4.13.6 Human resources						

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

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

Name	Impact	Origin	Trend
4.13.7 Low impact research/monitoring activities	 	 	





<b>Spatial scale - Area affected by the factor</b>	
✕	Restricted
	Localised
	Extensive
	Widespread

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

<b>Impact - Impact on the attributes</b>	
	Insignificant
	Minor
✕	Significant
	Major

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

<b>Trend - Development over the last 6 years</b>	
✕	Decreasing
	Static
	Increasing

Name	Impact	Origin	Trend
4.13.8 High impact research/monitoring activities	 	 	

<b>Spatial scale - Area affected by the factor</b>	
✕	Restricted
	Localised

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

#### 4.17. Serial inscriptions (national or transnational)

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

Glacier dan Nothofagus spp.

#### 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	Glacier			✗	
4.18.1.2	Nothofagus forest		✗		
4.18.1.3	Dendrolagus mbaiso	✗			
4.18.1.4	Zaglossus sp.	✗			
4.18.1.5	Anurophasis monorthonyx	✗			

#### 5. Protection and Management of the Property

##### 5.1. Boundaries and Buffer Zones

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

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

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

The boundaries **are known** by the management authority **but are not known** by 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 buffer zones **do not limit** the ability to maintain the property's Outstanding Universal Value but they could be improved

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

The buffer zones of the World Heritage property **are known and recognised** by the management authority **but are not known** by local communities/landowners

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

Sufficient efforts and funds are needed to socialize property as a world natural heritage to the wider community

## 5.2. Protective Measures

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

The area was first given protected status by the Dutch Colonial Government in 1919, with the establishment of the Lorentz Nature Monument.

In 1978 it was established as a Strict Nature Reserve (Cagar Alam) by the Indonesian Government (44/Kpts/Um/1/1978), with an area of 2,150,000 hectares. In 1991 the area was listed as one of the sites with highest priority for conservation in Indonesia's National Biodiversity Action Plan. In 1996 WWF and the provincial department of forestry (Kanwil Kehutanan) proposed a revision of the reserve boundaries and change the status to become a National Park. The Director General for Nature Conservation and Forest Protection accepted this revision in July 1996. In March 1997 the Minister of Forestry declared the Lorentz area a National Park, that includes a western extension (Mt. Trikora, Mt. Rumphius, Lake Habbema area) and coastal waters.

### 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?

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

### 5.2.5 - 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 is **acceptable capacity/resources** to enforce legislation and/or regulation in the World Heritage property but some deficiencies of enforcement remain

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

It is necessary to have mutual understanding and agreement between the parties, especially indigenous peoples who have direct contact with the area.

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

There must be a strong commitment and support (especially funding) from decision / policy makers both at the Center and the International Institutions dealing with World Heritage in efforts to protect regional property.

## 5.3. Management System/Management Plan

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

Public management system at national level

If 'Other', please specify


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

A statutory Management Plan or zoning plan for the property.

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

Management system references have referred to the Management Zone Document (December 2018) and the 2021-2030 Long Term Management Plan Document.

### 5.3.4 - Management Documents

Title	Status	Available	Date	Link to source
Lorentz National Park World Heritage Area	N/A	Available	2005	

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

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

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

Not yet understanding or knowing the application of policies regarding the historic urban landscape

### 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:**

Not yet fully understanding or fully aware of the policies contained in climate change policy documents.

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

**Some 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**

Some of the features / attributes of world heritage in the region are being carried out a cause study to overcome the bigger and more widespread negative risks.

**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 **fully implemented and monitored**

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

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

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

		Not applicable	No mechanisms for participation	Some participation	Direct participation	Transformative participation in all relevant decision processes
5.3.15.1	Local communities			✗		
5.3.15.2	Local authorities					✗
5.3.15.3	Landowners in the property and the buffer zone			✗		
5.3.15.4	Indigenous peoples			✗		
5.3.15.5	Women					
5.3.15.6	Other specific groups					
	If you selected, 'Other specific groups' please specify					

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

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

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

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

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

There is still a need for an increase in efforts to better address some of the expectations of the management system that is being and will be carried out or developed by the Management Unit. Together with the community in the traditional zone, a conservation partnership is carried out and the indigenous people in the buffer zone carry out a community empowerment program.

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

Ensure that every area management plan that has been prepared is implemented effectively and that evaluation is carried out thoroughly.

## 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)	100 %	100 %
6.1.1.7	Governmental (regional/provincial/state)	0 %	0 %
6.1.1.8	Governmental (local/municipal)	0 %	0 %
6.1.1.9	In-country donations (NGOs, foundations, etc.)	0 %	0 %
6.1.1.10	Individual visitor charges (e.g. entry, toilets, parking, camping fees, etc.)	0 %	0 %
6.1.1.11	Commercial activities (e.g. merchandising and catering, filming permit, concessions, etc.)	0 %	0 %
6.1.1.12	Other	0 %	0 %
		Total 100 %	Total 100 %

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

Nothing

**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 **not secure**

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

Funding support from various parties is required. In addition, the support of experts in various scientific fields in managing world heritage properties is needed so that it is expected to become an effective knowledge transfer medium.

**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	75 %	75 %
6.1.6.2	Women	25 %	25 %
		Total 100 %	Total 100 %

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

Human resources are **inadequate** for management needs

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

Conservation	Poor
Environmental sustainability	Not available
Community participation and inclusion	Not available
Risk preparedness	Not available
Capacity development and education	Not available
Administration	Fair
Research and monitoring	Not available
Awareness raising and public information/communication	Not available
Marketing and promotion	Not available
Interpretation	Not available
Visitor management/tourism	Not available
Enforcement (custodians, police)	Poor

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

Conservation	Not available
Environmental sustainability	Not available
Community participation and inclusion	Not available
Risk preparedness	Not available
Capacity development and education	Not available
Administration	Not available
Research and monitoring	Not available
Awareness raising and public information/communication	Not available
Marketing and promotion	Not available
Interpretation	Not available
Visitor management/tourism	Not available
Enforcement (custodians, police)	Not available

#### 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.

Increasing the capacity of human resources in the management unit is needed.

#### 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 has been developed **but it is not implemented** and skills are not being transferred

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

The limited human resource capacity of the management unit is a serious obstacle in the management of world heritage properties at this time

## 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 **insufficient**

**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 a **small amount of research, but it is not planned**

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

Research results are **not shared at any level**

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

Several data and information needs for area management have been identified, however the follow-up for research / study activities has not been carried out due to constraints on funding sources.

**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	Poor
Local/municipal authorities	Poor
Indigenous peoples	Poor
Landowners	Poor
Women	Poor
Youth/children	Poor
Researchers	Fair
Local visitors	Poor
National/international tourists	Poor
Tourism industry	Poor
Local businesses and industries	Poor
NGOs	Poor
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 **limited and ad hoc education** and awareness programme for children and/or youth

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

Local communities
Indigenous peoples
Landowners
Youth/children
Local Visitors
National/international tourists
Tourism industry
NGOs

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

Visitor centre	Not provided but needed
Site museum	Not provided but needed
Information booths	Not provided but needed
Guided tours	Not provided but needed
Trails/routes	Not provided but needed



Printed information materials	Not provided but needed
Online (website, social media, etc.)	Poor
Transportation facilities	Not provided but needed
Other	Not needed
If 'Other' is selected, please specify	

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

It is necessary to increase the effectiveness of awareness and knowledge programs for the parties / society at large as well as an increase in supporting facilities for area management.

## 9. Visitor Management

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

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

Entry tickets and registries

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

Overnight stay

### 9.4 - Please provide the source of information

Statistic book of Lorentz National Park Office

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

### 9.6 - Please provide the source of information

### 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

Currently, a design document for the development of natural tourism sites in the utilization zone is being prepared, which includes a study of carrying capacity and carrying capacity.

### 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?

No

If a different system, please specify

### 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 **contact** between those responsible for the World Heritage property and the tourism industry but this is **largely confined to administrative or regulatory matters**

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

The Outstanding Universal Value of the property is **not adequately presented and interpreted**

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

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

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

**Fees are collected**, but make **no contribution** to the management of the World Heritage property

### 9.15 - Are there locally driven sustainable tourism initiatives?

Yes

If 'Yes', please specify

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

Yes

If 'Yes', please specify

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

It is still an initiative but it has not been implemented.

## 10. Monitoring

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

There is a **small amount of monitoring**, but it is not planned

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

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

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

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

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

The management unit has not comprehensively understood the main indicators of monitoring the conditions of Outstanding Universal Values, so there is still a need for efforts to increase understanding.

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

World Heritage managers/coordinators and staff	Non-existent
Local/municipal authorities	Non-existent
Local communities	Non-existent
Indigenous peoples	Non-existent
Landowners	Non-existent
Women	Non-existent
Researchers	Non-existent
Tourism industry	Non-existent
Local businesses and industry	Non-existent
NGOs	Non-existent
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.**

Communication and opportunities for collaboration with other parties are being carried out to implement the results of WHC recommendations.

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

There is a need for comprehensive discussions with the WHC in an effort to improve effective monitoring activities.

**11. Identification of Priority Management Needs**

**11.1 - Identification of Priority Management Needs**

5.1	Boundaries and Buffer Zones	
5.1.2	The boundaries of the World Heritage property <b>are known</b> by the management <b>authority but are not known</b> by local communities/landowners	✗
5.1.4	The buffer zones of the World Heritage property <b>are known and recognised</b> by the management <b>authority but are not known and recognized</b> by local <b>communities/landowners</b>	
5.2	Protective Measures	

5.2.3	An <b>adequate legal framework</b> for maintaining of the Outstanding Universal Value including conditions of Authenticity and/or Integrity of the World Heritage property exists <b>but there are some deficiencies in implementation</b>	
5.2.4	An <b>adequate legal framework</b> in the buffer zone for maintaining the Outstanding Universal Value including conditions of Authenticity and/or Integrity of the World Heritage property exists <b>but there are some deficiencies in implementation</b>	
5.2.5	An <b>adequate legal framework</b> exists for the broader setting of the World Heritage property and the buffer zone, <b>but there are some deficiencies in implementation</b> which undermine the maintenance of the Outstanding Universal Value including conditions of Authenticity and/or Integrity of the property	
5.2.6	There is <b>acceptable capacity/resources</b> to enforce legislation and/or regulation in the World Heritage property but some deficiencies of enforcement remain	
5.3	<b>Management System/Management Plan</b>	
5.3.5	<b>No use</b> has been made of the Historic Urban Landscape Recommendation to develop policies and best practices for the protection of the property	
5.3.7	<b>No use</b> has been made of the Policy Document on the Impacts of Climate Change on World Heritage Properties at the property	
5.3.9	<b>Some use</b> has been made of the Strategy for Reducing Risks from Disasters at World Heritage Properties at the property	
5.3.11	There is <b>coordination</b> between the range of administrative bodies involved in the management of the property, <b>but it could be improved</b>	
5.3.12	The management system/plan is <b>only partially adequate</b> to maintain the property's Outstanding Universal Value	
5.3.17	<ul style="list-style-type: none"> <li>• In a <b>limited manner</b>, the management system of the World Heritage property does <b>contribute to gender equality</b></li> <li>• In a <b>limited manner</b>, the management system of the World Heritage property does <b>contribute to social inclusion and equity, improving opportunities for all, irrespective of age, sex, disability, ethnicity, origin, religion or economic or other status</b></li> <li>• In a <b>limited manner</b>, the management system of the World Heritage property does <b>integrate a human rights-based approach</b></li> <li>• In a <b>limited manner</b>, the management system of the World Heritage property does <b>contribute to fostering inclusive local economic development, and to enhancing livelihood</b></li> <li>• In a <b>limited manner</b>, the management system of the World Heritage property does <b>contribute to conflict prevention, including respect for cultural diversity within and around the World Heritage property</b></li> </ul>	
6.1	<b>Funding</b>	
6.1.3	The available <b>budget is inadequate</b> for basic management needs and presents a serious constraint to the capacity to manage the World Heritage property	
6.1.4	Existing sources of funding are <b>not secure</b>	
6.1.7	Human resources <b>are inadequate</b> for the management needs of the World Heritage property	✗
6.1.10	<b>No use</b> has been made of the World Heritage Strategy for Capacity Development at the World Heritage property	
6.1.12	A <b>site-based</b> capacity building plan or programme has been developed <b>but it is not implemented</b> and skills are not being transferred	✗
7	<b>Scientific Studies and Research Projects</b>	
7.1	Knowledge about the values and attributes of the World Heritage property is <b>insufficient</b>	✗
7.2	There is a <b>small amount of research</b> in the World Heritage property <b>but it is not planned</b>	✗
7.3	Research results are <b>not shared at any level</b>	✗
8	<b>Education, Information and Awareness Building</b>	
8.2	There is a <b>limited and ad hoc education</b> and awareness programme for children and/or youth	✗
9	<b>Visitor Management</b>	
9.7	There is a <b>strategy</b> to manage visitors, tourism activity and its derived impacts on the World Heritage property but there are <b>some deficiencies in implementation</b>	
9.9	Visitor use of the World Heritage property is managed but <b>improvements could be made</b>	
9.11	There is <b>contact</b> but this is largely confined to administrative or regulatory mattersThere is contact between those responsible for the World Heritage property and the tourism industry but this <b>is largely confined to administrative or regulatory matters</b>	
9.12	The Outstanding Universal Value of the property is <b>not adequately presented and interpreted</b>	✗
10	<b>Monitoring</b>	
10.1	There is a <b>small amount of monitoring</b> at the World Heritage property, but it is not planned	✗
10.2	Information on the values of the World Heritage <b>property is adequate and key indicators have been defined but monitoring of the status of indicators could be improved</b>	
Please select 1 more issues.		
<input checked="" type="checkbox"/> 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

Please assess the current negative factors in question 4.16 before filling in the summary table.

### 12.2. Summary - Management Needs

#### 12.2.1 - Summary - Management Needs

5.1	<b>Boundaries and Buffer Zones</b>				
		<b>Actions</b>	<b>Timeframe</b>	<b>Lead agency (and others involved)</b>	<b>More info / comment</b>
5.1.2	The boundaries of the World Heritage property <b>are known</b> by the management <b>authority</b> <b>but are not known</b> by local communities/landowners	Conduct socialization and awareness activities to stakeholders	five year	Central Government, Local Government, Academics, and Foundations	it takes the seriousness of the parties
6.1	<b>Funding</b>				
6.1.7	Human resources <b>are inadequate</b> for the management needs of the World Heritage property	Increase the capacity of adequate human resources management through the participation of training from various sources	five year	Central Government, Local Government, Academics, and Foundations	Existing funding has not been able to cover management staff training costs.
6.1.12	<b>A site-based</b> capacity building plan or programme has been developed <b>but it is not implemented</b> and skills are not being transferred	Conducting capacity building activities based on local communities and transfer of knowledge through the support of stakeholders	five year	Central Government, Local Government, Academics, and Foundations	its activities must be monitored and evaluated regularly
7	<b>Scientific Studies and Research Projects</b>				
7.1	Knowledge about the values and attributes of the World Heritage property is <b>insufficient</b>	conduct meetings to get an understanding of the perceptions of property values and attributes	five year	Central Government, Local Government, Academics, and Foundations	it takes seriousness and mutual commitment in understanding the values and attributes of property
7.2	There is a <b>small amount of research</b> in the World Heritage property <b>but it is not planned</b>	Carry out broader research collaborations with both national and international research institutions.	Ten Year	Central Government, Local Government, Academics, and Foundations	Building a road map for research activities that are needed, especially in supporting the preservation of Outstanding Universal Value.
7.3	Research results are <b>not shared at any level</b>	Carry out a comprehensive and thorough scientific study of world heritage properties	five year	UNESCO, Central Government, Local Government, Academics, and Foundations	Build an adequate information center as a medium for information dissemination and promotion.
8	<b>Education, Information and Awareness Building</b>				
8.2	There is a <b>limited and ad hoc education</b> and awareness programme for children and/or youth	Carrying out educational and awareness activities to all levels of society.	five year	Central Government (Lorentz National Park office), Local Government, and Academics	Clear schemes and funding are required.
9	<b>Visitor Management</b>				

9.12	The Outstanding Universal Value of the property is <b>not adequately presented and interpreted</b>	Studying and understanding in detail about the existence of all the attributes that become outstanding universal values property	one year	Lorentz National Park Agency	Competent parties who handle world heritage are required to assist the management unit in interpreting outstanding universal values adequately.
10	<b>Monitoring</b>				
10.1	There is a <b>small amount of monitoring</b> at the World Heritage property, but it is not planned	Directing monitoring activities on the condition of the important value of the area on a regular basis.	every year	Central Government (Lorentz National Park) and Unesco	It is necessary to have clarity on the main indicators and measurement units used in monitoring the area's important value monitoring activities

**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?

The Authenticity of the World Heritage property **has been compromised** by factors described in this report

### 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 **has been compromised** by factors described in this report

### 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 are being **partially degraded** but the state of conservation of the World Heritage property has **not been significantly impacted**

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

Comprehensive concrete action is needed in maintaining the sustainability of Outstanding Universal Values through strong support from various parties.

## 13. Impact of World Heritage Status

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

Conservation	Very positive
Research and monitoring	Very positive
Management effectiveness	Positive
Quality of life for local communities and indigenous peoples	Positive
Recognition	Positive
Education	Positive
Infrastructure development	Positive
Funding for the property	No impact
International cooperation	Positive
Political support for conservation	Very positive
Legal/Policy framework	Positive
Advocacy	No impact
Institutional coordination	No impact
Security	No impact
Gender equality	Positive
Provision of ecosystem services/ benefits to local communities	Very positive
Social inclusion and equity, and improvement of opportunities for all, irrespective of age, sex, disability, ethnicity, origin, religion, or economic or other status	Positive

Fostering inclusive local economic development and enhancing livelihood	Positive
Contributing to conflict prevention, including respect for cultural diversity within and around heritage properties	No impact
Other	Not applicable
If 'Other', please specify	

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

Building mutual understanding and agreement with the parties in protecting and preserving the world's natural heritage in Lorentz National Park as the main key in ensuring the existence of indigenous peoples as customary owners to contribute positively to the sustainability of the potential for wildlife and the balance of the ecosystem in this region.

## 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

Community Empowerment Programs, Conservation Partnership Collaboration and Multistakeholder Management Collaboration

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

Sustainable Development
Management
Governance

## 15. Assessment of the Periodic Reporting Exercise

### 15.1. Relevance of Periodic Reporting

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

The concept of Integrity and/or Authenticity
The property's Integrity and/or Authenticity

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

State Party	Poor
Site Managers	Poor
UNESCO World Heritage Centre	No follow-up
Advisory Bodies (ICOMOS, IUCN, ICCROM)	No follow-up

### 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?

Fundraising
Awareness raising

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

quite good although there is still a need for an increase in easier data access.

### 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
Responsible persons for local designated sites under other international conventions/ programmes
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 **explicitly considered** in the process **but there are still deficiencies in the implementation.**

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

Yes

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

168 / 168 / 25 /
------------------

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

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

#### 15.4. Format and content of the Periodic Report

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

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		✗		
15.4.2.2	Clarity of questions		✗		

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

there needs to be simplification of the tool

#### 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	Poor
UNESCO (other sectors/field offices)	Poor
UNESCO National Commission	Poor
ICOMOS International	Poor
IUCN International	Poor
ICCROM international/regional	Poor
ICOMOS national/regional	Poor
IUCN national/regional	Poor

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

UNESCO World Heritage Centre	Poor
State Party Representative (national Focal Point)	Poor
UNESCO other sectors (e.g. field office)	Poor
National Commission for UNESCO	Poor
ICOMOS International	Poor
ICCROM International/regional	Poor
ICOMOS national/regional	Poor
IUCN national/regional	Poor
IUCN International	Poor

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

No

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

it is necessary to have a standard format used in the next reporting period

#### 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

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

Reason for update: There is a change in nomenclature at the Center, namely the Ministry of Environment and Forestry, as well as the Directorate General of KSDAE. The institutional structure of the Lorentz National Park is regulated in Permenlhk No. 47/2016 as an amendment to Permenlhk No. 7/2016. For management activities, Lorentz National Park has referred to the Zoning System which was approved in December 2018 and the Long-Term Management Plan which was passed in November 2020.

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**

Still requires comprehensive assistance.

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