

# Rock Carvings in Tanum

## 1. World Heritage Property Data

### 1.1 - Name of World Heritage property

Rock Carvings in Tanum

### 1.2 - World Heritage property details

### 1.3 - Geographic information table

Name	Coordinates	Property (ha)	Buffer zone (ha)	Total (ha)	Inscription year
Rock Carvings in Tanum	58.701 / 11.341	4137.609	0	4137.609	1994
Total (ha)		4137.609	0	4137.609	

### 1.4 - Map(s)

Title	Date	Link to source
Rock Carvings in Tanum - Map of the inscribed property	2006	

### Comment

An updated map of the Tanum World Heritage will be submitted to the World Heritage Centre via the Swedish National Heritage Board, in accordance with CLT/WHC/NOM/22/166.

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

1. [Tanums Kommun](#)
2. [National Heritage Board of Sweden](#)
3. [Swedish Rock Art Research Archives](#)
4. [County Administrative Board of Vstra Gotaland](#)

### Comment

None of the URLs are up-to-date. However, the limited number of characters in to comment field prevents us from providing a complete list of updated URLs. There is a new official web site under construction: [www.tanumworldheritage.se](http://www.tanumworldheritage.se) Swedish Rock Art Research Archives is not an official site and should be removed from the list.

## 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

### 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?

Yes

### 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?

Not applicable

### 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?

Not applicable

### 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?

Not applicable

## 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)

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

No

### 2.10 - Please list any elements associated with the World Heritage property inscribed under the Convention for the Safeguarding of the

## Intangible Cultural Heritage of which you are aware

### 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.

## 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

The Rock Carvings in Tanum, located in the northern part of Bohuslän province in western Sweden (Västra Götaland County), are a unique artistic achievement for their rich and varied motifs (depictions of humans and animals, weapons, boats, and other symbols) and for the cultural and chronological unity they express. They reveal the life and beliefs of people living in the Nordic region of Bronze Age Europe, and are remarkable for their large numbers and outstanding quality. A cultural landscape with a continuity in settlement and consistency in land use that spans more than eight millennia, the area is rendered outstanding by its assemblage of Bronze Age rock art.

Northern Bohuslän is a land of granite bedrock, parts of which were scraped clean about 14,000 years ago as the Scandinavian Ice Sheet slowly moved northward, leaving gently curved rock faces exposed. These were the "canvases" selected by Bronze Age artists. There are at least 1,500 known rock carving sites in northern Bohuslän concentrated in certain areas, including the parish of Tanum. The carvings were executed by pecking and grinding the rock using stone hammers and points. The panels of rock art, skilfully created with simple tools, show a rich diversity of compositions of the highest quality, even when regarded simply as works of art or design. Compared to other similar contexts, these motifs and scenes are even more outstanding in their ability to convey reflections of life and cosmology during the Nordic Bronze Age (c. 1700 BC – 500 BC). It is obvious that the intention of these panels, which are often situated in commanding positions in the landscape, is to convey messages, thereby confirming their role as primary contemporary centres for worship and cult.

The Rock Carvings in Tanum represent a unique artistic achievement through their skilful and detailed depictions of animals, humans, ships, weapons, and symbols of the Bronze Age. These sometimes include lively scenes and complex compositions of elaborate motifs from travel, status, power, warfare, and cult. Some panels, or rather parts of them, were obviously planned in advance. Probably the most evident example of this is the panel at Fossum. In many cases, these motifs, techniques, and compositions create an exceptional testimony to the culture of the European Bronze Age.

**Criterion (i):** The rock carvings of the Tanum region constitute an outstanding example of Bronze Age art of the highest quality.

**Criterion (iii):** The range of motifs on the Tanum rock carvings provides exceptional evidence of many aspects of life in the European Bronze Age.

**Criterion (iv):** The continuity of settlement and the ongoing practice of agriculture, as illustrated by the Tanum region's rock carvings, archaeological vestiges, and modern landscape features, combine to demonstrate a remarkable permanence during eight thousand years of human history.

##### Integrity

Within the boundaries of the 4,137.609 ha property are located all the elements necessary to express the Outstanding Universal Value of Rock Carvings in Tanum, including over 600 known rock carving sites, which is the highest density of such panels in northern Europe. The integrity and completeness of this area is illustrated in the centrally situated Tanum plain, where rock carving sites occur in zones in the plain's western and north-eastern peripheries. The great majority of known settlements and prehistoric cemeteries are located at the northern and eastern edges of this plain. The boundaries thus adequately ensure the complete representation of the features and processes that convey the property's significance. No buffer zone has been defined.

The property in general does not suffer from adverse effects of development and/or neglect. A significant proportion of the carvings are well preserved, although a few vulnerable sites are in the process of ongoing degradation. An upgrading of the E6 highway, which crosses parts of this property, was planned at the time of its inscription. Swedish authorities worked jointly with the World Heritage Centre and ICOMOS and reached a satisfactory solution in 2009 to protect the attributes that sustain the Outstanding Universal Value of the property. Eleven wind turbines located about 5 km northeast of the World Heritage property were approved according to Swedish legislation and completed in 2014. Studies indicate that the impact on the Outstanding Universal Value of the property is negligible. One wind farm approximately 10 km north of the World Heritage property is planned.

##### Authenticity

Rock Carvings in Tanum is entirely authentic in location and setting, forms and designs, materials and substances, and spirit and feeling, as substantiated by scientific studies of the carvings themselves and by comparative typological studies of dated Bronze Age art on other archaeological artefacts. The authenticity is expressed not only in the panels themselves, but also in the adjacent terrain, which may contain evidence of rituals and other practices connected to them. This authenticity has been maintained. The consistency in land use with its ongoing practice of agriculture makes it possible to understand the location of the panels close to the Bronze Age sea level. This also reinforces the authenticity of the property. In Tanum, as in the rest of Scandinavia, figures at selected rock carving sites have been repeatedly painted over the past five or six decades, since their granitic environment can make them difficult to distinguish. Today, only a few carefully selected exposed panels are painted with a non-destructive paint by trained specialists. Future structural changes in farming and agriculture may threaten the qualities of the open cultivated landscape.

##### Protection and management requirements

Rock Carvings in Tanum is designated as an Area of National Interest, and as such is protected under the Environmental Code (2010) and the Planning and Building Act (1987). A major part of this property includes about 1,000 individual monuments or groups of monuments that are protected under the Cultural Heritage Act (1998). All the rock carvings in the property are located on privately owned land except for part of those on Vitlycke Farm, which are owned by the Museum of Rock Carvings at Vitlycke. In 2012 the Management Council adopted a management plan that includes a vision and objectives for protecting and managing the property. The plan has a yearly revised plan of action focusing on organization, increased engagement of the local population, monitoring, sustainable tourism, and a full documentation of all panels (due to be finished in 2020). Three international research and development projects as well as comprehensive programs for recording damage have created vital basic knowledge for the implementation of future protection programs.

Sustaining the Outstanding Universal Value of the property over time will require ensuring the municipal master plan: continues to address wind energy issues, including impeding wind turbines within the World Heritage property; continues to identify areas outside the property with respect to the cultural and natural values of the landscape as a whole; and continues to examine the question of how increased sustainable tourism may contribute to the economic development of the region. Important steps in the latter include the creation of a rest stop in conjunction with the new E6 highway, as a gateway to the World Heritage property and with information about the area, and an increase in the visitor capacity of Vitlycke Museum. The museum, including the re-creation of a Bronze Age farm, plays an

important role in helping visitors to decipher the rock carvings and the landscape. Its capacity as a visitor and management centre will be strengthened in coming years. The vulnerable sites in the process of ongoing degradation should continue to be closely monitored, and any degradation counteracted according to accepted international practices.

**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	The rock carvings	✗			
3.2.2	The open cultural landscape	✗			
3.2.3	Other archaeological vestiges	✗			
3.2.4	The settlement's geographic location	✗			
3.2.5	Modern landscape features	✗			
3.2.6					
3.2.7					
3.2.8					
3.2.9					
3.2.10					
3.2.11					
3.2.12					
3.2.13					
3.2.14					
3.2.15					

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

#### 4. Factors Affecting the Property

##### 4.1. Buildings and Development

###### 4.1.1 - Housing

Previous answer Cycle 2 (12/07/2013):

- Not relevant

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

###### 4.1.2 - Commercial development

Previous answer Cycle 2 (12/07/2013):

- Relevant, Positive, Current, Inside

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

###### 4.1.3 - Industrial areas

Previous answer Cycle 2 (12/07/2013):

- Not relevant

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

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

Previous answer Cycle 2 (12/07/2013):

- Not relevant

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











###### 4.1.5 - Interpretative and visitation facilities

Previous answer Cycle 2 (12/07/2013):

- Relevant, Positive, Current, Potential, Inside, 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

4.1.5. Well-attended visitors' center with intermediary activities with a high level of ambition. New accessibility facilities and updated sign program at the public visitor areas. Funded at local, regional and national level.

## 4.2. Transportation Infrastructure

### 4.2.1 - Ground transport infrastructure

Previous answer Cycle 2 (12/07/2013):

- Not relevant

✕ 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 (12/07/2013):

- Not relevant

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

### 4.2.3 - Air transport infrastructure

Previous answer Cycle 2 (12/07/2013):

- Not relevant

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

### 4.2.4 - Marine transport infrastructure

Previous answer Cycle 2 (12/07/2013):

- Not relevant

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

### 4.2.5 - Effects arising from use of transportation infrastructure

Previous answer Cycle 2 (12/07/2013):

- Not relevant

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

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

4.2.1. The road network with its historical background is part of the attribute "modern landscape features" and has therefore inherently a positive effect on the property. The rerouting of the E6 highway through the World Heritage (completed in 2015) was carried out in a way that minimizes the impact on the OUV. Further expansion of roads can have a negative impact on the OUV by placing petroglyphs and other archaeological vestiges in the danger.

## 4.3. Services Infrastructures

### 4.3.1 - Water infrastructure

Previous answer Cycle 2 (12/07/2013):

- Not relevant

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

### 4.3.2 - Renewable energy facilities

Previous answer Cycle 2 (12/07/2013):

- Not relevant

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

Positive							
Negative							

### 4.3.3 - Non-renewable energy facilities

Previous answer Cycle 2 (12/07/2013):

- Not relevant

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

### 4.3.4 - Localised utilities

Previous answer Cycle 2 (12/07/2013):

- Relevant, Negative, Potential, Inside, Outside

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

### 4.3.5 - Major linear utilities

Previous answer Cycle 2 (12/07/2013):

- Not relevant

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

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

4.3.2. Recurring expansion plans of wind farms just outside the World Heritage risk negatively affecting the World Heritage values, the need for addressing this issue is high lighted in the RSOUV. 4.3.4. Cell towers are located in the world heritage area but are currently not considered to affect the OUV, but an intensified expansion could be harmful.

## 4.4. Pollution

### 4.4.1 - Pollution of marine waters

Previous answer Cycle 2 (12/07/2013):

- Not relevant

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

### 4.4.2 - Ground water pollution

Previous answer Cycle 2 (12/07/2013):

- Not relevant

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

### 4.4.3 - Surface water pollution

Previous answer Cycle 2 (12/07/2013):

- Relevant, Negative, Current, Inside

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

### 4.4.4 - Air pollution

Previous answer Cycle 2 (12/07/2013):

- Relevant, Negative, Current, Inside

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

### 4.4.5 - Solid waste

Previous answer Cycle 2 (12/07/2013):

- Not relevant

Relevant

✕ Not relevant

#### 4.4.6 - Input of excess energy

Previous answer Cycle 2 (12/07/2013):

- Not relevant

Relevant

✕ Not relevant

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

4.4.3,4. The view of what causes the petroglyphs to weather has changed in the last decade. Acid rain and polluted air are no longer considered to be the main cause. A factor that remains at some petroglyph sites is contaminated surface water in the form of agricultural runoff.

#### 4.5. Biological resource use/modification

##### 4.5.1 - Fishing/collecting aquatic resources

Previous answer Cycle 2 (12/07/2013):

- Not relevant

Relevant

✕ Not relevant

##### 4.5.2 - Aquaculture

Previous answer Cycle 2 (12/07/2013):

- Not relevant

Relevant

✕ Not relevant










##### 4.5.3 - Land conversion

Previous answer Cycle 2 (12/07/2013):

- Not relevant

✕ Relevant

Not relevant

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

##### 4.5.4 - Livestock farming/Grazing of domesticated animals

Previous answer Cycle 2 (12/07/2013):

- Not relevant

Relevant

✕ Not relevant

##### 4.5.5 - Crop production

Previous answer Cycle 2 (12/07/2013):

- Not relevant

Relevant

✕ Not relevant

##### 4.5.6 - Commercial wild plant collection

Previous answer Cycle 2 (12/07/2013):

- Not relevant

Relevant

✕ Not relevant

##### 4.5.7 - Subsistence wild plant collection

Previous answer Cycle 2 (12/07/2013):

- Not relevant

Relevant

✕ Not relevant

##### 4.5.8 - Commercial hunting

Previous answer Cycle 2 (12/07/2013):

- Not relevant

Relevant

✕ Not relevant

#### 4.5.9 - Subsistence hunting

Previous answer Cycle 2 (12/07/2013):

- Not relevant

Relevant

✕ Not relevant










#### 4.5.10 - Forestry/Wood production

Previous answer Cycle 2 (12/07/2013):

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

✕ Relevant

Not relevant

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

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

4.5.3,10. The open cultural landscape is highly relevant for maintaining the OUV. Both agriculture and forestry are crucial for preserving the cultural landscape. However, forestry and agriculture can damage the World Heritage's most important attribute: the petroglyphs. Land conversion has taken place with reduced open area and grazing land, but the trend has been relatively stable in recent decades.

### 4.6. Physical resource extraction

#### 4.6.1 - Mining

Previous answer Cycle 2 (12/07/2013):

- Not relevant

Relevant

✕ Not relevant

#### 4.6.2 - Quarrying

Previous answer Cycle 2 (12/07/2013):

- Not relevant

Relevant

✕ Not relevant

#### 4.6.3 - Oil and gas

Previous answer Cycle 2 (12/07/2013):

- Not relevant

Relevant

✕ Not relevant

#### 4.6.4 - Water (extraction)

Previous answer Cycle 2 (12/07/2013):

- Not relevant

Relevant

✕ Not relevant

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

### 4.7. Local conditions affecting physical fabric

#### 4.7.1 - Wind

Previous answer Cycle 2 (12/07/2013):

- Not relevant

Relevant

✕ Not relevant

#### 4.7.2 - Relative humidity

Previous answer Cycle 2 (12/07/2013):

- Not relevant

Relevant

✕ Not relevant

#### 4.7.3 - Temperature

Previous answer Cycle 2 (12/07/2013):

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



✕ 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 (12/07/2013):

- Not relevant

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

#### 4.7.5 - Dust

Previous answer Cycle 2 (12/07/2013):

- Not relevant

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

#### 4.7.6 - Water (rain/water table)

Previous answer Cycle 2 (12/07/2013):

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

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

#### 4.7.7 - Pests

Previous answer Cycle 2 (12/07/2013):

- Not relevant

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

#### 4.7.8 - Micro-organisms

Previous answer Cycle 2 (12/07/2013):

- Relevant, Negative, Current, Potential, Inside

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

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

4.7.3,6,8. Water is the most important factor in the granite's weathering processes and a prerequisite for the negative impact of temperature and microorganisms on the rock carvings. Climate change brings increased pressure from all selected influencing factors.

### 4.8. Social/Cultural uses of heritage

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

Previous answer Cycle 2 (12/07/2013):

- Not relevant

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

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

Previous answer Cycle 2 (12/07/2013):

- Not relevant

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

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

Previous answer Cycle 2 (12/07/2013):

- Not relevant

Relevant

✕ Not relevant

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

Previous answer Cycle 2 (12/07/2013):

- Not relevant

Relevant

✕ Not relevant

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

Previous answer Cycle 2 (12/07/2013):

- Not relevant

Relevant

✕ Not relevant










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

Previous answer Cycle 2 (12/07/2013):

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

✕ Relevant

Not relevant

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

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

4.8.7. Tourism and visitation are positive because it increases awareness of the World Heritage and thus provides a protective effect, among other things. But making petroglyphs publicly available also involves an intrusion in the ancient remains in various ways, such as through the construction of stairs and platforms and painting of petroglyphs, even non-touching presentation methods can involve significant intrusion, e.g., GOBO towers and fixed lighting.

#### 4.9. Other human activities

##### 4.9.1 - Illegal activities

Previous answer Cycle 2 (12/07/2013):

- Not relevant

Relevant

✕ Not relevant

##### 4.9.2 - Deliberate destruction of heritage

Previous answer Cycle 2 (12/07/2013):

- Not relevant

Relevant

✕ Not relevant

##### 4.9.3 - Military training

Previous answer Cycle 2 (12/07/2013):

- Not relevant

Relevant

✕ Not relevant

##### 4.9.4 - War

Previous answer Cycle 2 (12/07/2013):

- Not relevant

Relevant

✕ Not relevant

##### 4.9.5 - Terrorism

Previous answer Cycle 2 (12/07/2013):

- Not relevant

Relevant

✕ Not relevant

4.9.6 - Civil unrest

Previous answer Cycle 2 (12/07/2013):

- Not relevant

Relevant

✕ Not relevant

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

4.10. Climate change and severe weather events

4.10.1 - Storms

Previous answer Cycle 2 (12/07/2013):

- Relevant, Negative, Potential, Inside

Relevant

✕ Not relevant

4.10.2 - Flooding

Previous answer Cycle 2 (12/07/2013):

- Not relevant

Relevant

✕ Not relevant

4.10.3 - Drought

Previous answer Cycle 2 (12/07/2013):

- Relevant, Negative, Potential, Inside, Outside

Relevant

✕ Not relevant

4.10.4 - Desertification

Previous answer Cycle 2 (12/07/2013):

- Not relevant

Relevant

✕ Not relevant

4.10.5 - Changes to oceanic waters

Previous answer Cycle 2 (12/07/2013):

- Not relevant

Relevant

✕ Not relevant

4.10.6 - Temperature change

Previous answer Cycle 2 (12/07/2013):

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

✕ Relevant

Not relevant

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

4.10.7 - Other climate change impacts

Previous answer Cycle 2 (12/07/2013):

- Not relevant

Relevant

✕ 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

4.10.6. Temperature change, as in long-term climate change, accelerate many of the granite's weathering processes.

4.11. Sudden ecological or geological events

4.11.1 - Volcanic eruption

Previous answer Cycle 2 (12/07/2013):

- Not relevant

Relevant

✕ Not relevant

4.11.2 - Earthquake

Previous answer Cycle 2 (12/07/2013):

- Not relevant

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

4.11.3 - Tsunami/Tidal wave

Previous answer Cycle 2 (12/07/2013):

- Not relevant

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

4.11.4 - Avalanche/Landslide

Previous answer Cycle 2 (12/07/2013):

- Not relevant

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

4.11.5 - Erosion and siltation/Deposition

Previous answer Cycle 2 (12/07/2013):

- Not relevant

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

4.11.6 - Fire (wildfire)

Previous answer Cycle 2 (12/07/2013):

- Relevant, Negative, Potential, Inside, Outside

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

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

4.11.7. Forest wildfire is not currently a major threat, but a warmer climate could change that. Fire has the potential to greatly affect world heritage values, above all by destroying entire petroglyph sites.

4.12. Invasive/alien species or hyper-abundant species

4.12.1 - Translocated species

Previous answer Cycle 2 (12/07/2013):

- Not relevant

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

4.12.2 - Invasive/Alien terrestrial species

Previous answer Cycle 2 (12/07/2013):

- Not relevant

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

4.12.3 - Invasive/Alien freshwater species

Previous answer Cycle 2 (12/07/2013):

- Not relevant

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

4.12.4 - Invasive/Alien marine species

Previous answer Cycle 2 (12/07/2013):

- Not relevant

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

#### 4.12.5 - Hyper-abundant species

Previous answer Cycle 2 (12/07/2013):

- Not relevant

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

#### 4.12.6 - Modified genetic material

Previous answer Cycle 2 (12/07/2013):

- 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

#### 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 (12/07/2013):

- Relevant, Positive, Current, Inside

✗ 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 (12/07/2013):

- Relevant, Positive, Current, Potential, Inside

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

#### 4.13.8 - High impact research/monitoring activities

Previous answer Cycle 2 (12/07/2013):

- Not relevant

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

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





















4.13. The management, legal protection and governance is functioning well and generally has a positive impact on the world heritage. There are, however, concerns regarding the long-term supply of financial and human resources.

























































































#### 4.14. Other factor(s)

##### 4.14.1 - Other factor(s)

#### 4.15. Factors Summary Table

##### 4.15.1 - Factors Summary Table






Name	Impact			Origin		Trend
4.1 Buildings and Development						
4.1.5 Interpretative and visitation facilities						
4.2 Transportation Infrastructure						
4.2.1 Ground transport infrastructure						
						
4.3 Services Infrastructures						
4.3.2 Renewable energy facilities						
						
4.3.4 Localised utilities						
						
4.4 Pollution						
4.4.3 Surface water pollution						
						
4.5 Biological resource use/modification						
4.5.3 Land conversion						
						

4.5.10 Forestry/Wood production						
						
4.7 Local conditions affecting physical fabric						
4.7.3 Temperature						
						
4.7.6 Water (rain/water table)						
						
4.7.8 Micro-organisms						
						
4.8 Social/Cultural uses of heritage						
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						
4.11.6 Fire (wildfire)						
						
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						
<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
4.1.5 Interpretative and visitation facilities					
Spatial scale - Area affected by the factor					

✕	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

## 4.2 Transportation Infrastructure

Name	Impact			Origin		Trend
4.2.1 Ground 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

### 4.3 Services Infrastructures

Name	Impact			Origin		Trend
4.3.2 Renewable energy facilities						
	⊖	📢			🔄	➡

<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
4.3.4 Localised utilities						

--	--	--	--	--	--	--	--

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

#### 4.4 Pollution

Name	Impact			Origin		Trend
4.4.3 Surface water pollution						









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

## 4.5 Biological resource use/modification





Name	Impact			Origin		Trend
4.5.3 Land conversion						

<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
4.5.10 Forestry/Wood production	 		
	 		




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

## 4.7 Local conditions affecting physical fabric

Name	Impact	Origin	Trend
4.7.3 Temperature			
	  		





Spatial scale - Area affected by the factor	
	Restricted
	Localised
	Extensive
✕	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
4.7.6 Water (rain/water table)						
						

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
4.7.8 Micro-organisms			
	  		

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

✕	Restricted
	Localised
	Extensive
	Widespread

#### Temporal scale - Occurrence of the impact

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

#### Impact - Impact on the attributes

	Insignificant
✕	Minor
	Significant
	Major









#### Management response - Capacity of management to respond

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

#### Trend - Development over the last 6 years

	Decreasing
	Static
✕	Increasing

## 4.8 Social/Cultural uses of heritage

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

#### 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
<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

#### 4.10 Climate change and severe weather events

Name	Impact	Origin	Trend
4.10.6 Temperature change			
	  	 	

<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

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

#### 4.11 Sudden ecological or geological events

Name	Impact			Origin		Trend
4.11.6 Fire (wildfire)						
	⊖		📢	🕒		➡




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

#### 4.13 Management and institutional factors

Name	Impact			Origin		Trend
4.13.1 Management system/Management plan	+	📢		🕒		➡
Spatial scale - Area affected by the factor						
	Restricted					
	Localised					







	Extensive
✕	Widespread
<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
<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
4.13.3 Governance	 		






<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
4.13.4 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

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

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

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

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

	Attribute	Preserved	Compromised	Seriously compromised	Lost
4.18.1.1	The rock carvings	✕			
4.18.1.2	The open cultural landscape	✕			
4.18.1.3	Other archaeological vestiges	✕			
4.18.1.4	The settlement's geographic location	✕			
4.18.1.5	Modern landscapes features	✕			

### 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 property has **no buffer zone**, but there is a need for one

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

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

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

The potential effects of a buffer zone have not been investigated. However, it is not unlikely that a buffer zone would provide a helpful tool in assessing impact of, for example, future wind farms in the vicinity of the World Heritage.

## 5.2. Protective Measures

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

### 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

1988 / Historic Environment Act / Yes /  
<https://www.raa.se/en/in-english/cultural-heritage/historic-environment-laws/historic-environment-act-1988950/>

1998 / The Swedish Environmental Code / Yes /  
<https://www.government.se/legal-documents/2000/08/ds-200061/>

2010 / Planning and Building Act / Yes /  
<https://www.boverket.se/en/start/publications/publications/2018/legislation/>

1979 / The Forestry Act / Yes /  
<https://www.skogsstyrelsen.se/en/laws-and-regulations/skogsvarvslagen/>

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

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

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

The property has **no buffer zone**

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

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

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

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

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

The Historic Environment Act give all archaeological sites and monuments legal protection. Interventions must receive authorization from the County Administrative Board. The Environmental Code have two provisions relating to cultural values: it specifies requirements for the use of land areas and the concept of the cultural reserve. The Building and Planning Act gives local authorities autonomy in regulating planning but also gives the State powers to intervene in matters of national importance

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

## 5.3. Management System/Management Plan

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

Public management system at provincial/regional level

If 'Other', please specify

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

A statutory Management Plan or zoning plan for the property.

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

Mechanisms to promote equal participation among and within groups, including different levels of authority, local communities, indigenous people, women and men, and other specific groups

A management plan

An annual work plan or business plan

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

The administrative council is composed of representatives of three parties: County Administrative Board of Västra Götaland, Region Västra Götaland and Tanum municipality. The parties develop, among other things, infrastructure, accessibility, and knowledge development. The County Administrative Board and the municipality are the authorities responsible for upholding the protective designations and planning, respectively. The Region is responsible for site development and public education.

### 5.3.4 - Management Documents

Title	Status	Available	Date	Link to source
Management Plan - The Rock Carvings in Tanum	N/A	Available	2017	

**Comment**

The process of renewing the management plan for the period 2024-2033 is underway.

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

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

**5.3.6 - If the Historic Urban Landscape Recommendation has been used at this property, please describe briefly what has been done.**
**5.3.7 - Has any use been made of the Policy Document on the Impacts of Climate Change on World Heritage Properties at the property?**

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

**5.3.8 - If the Climate Change policy has been used, please briefly describe what has been done along with any research on the impacts of Climate Change on the property:**
**5.3.9 - Has any use been made of the Strategy for Reducing Risks from Disasters at World Heritage Properties at the property ?**

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

**5.3.10 - If the Strategy for Reducing Risks from Disasters at World Heritage Properties has been used, please briefly describe what has been done**
**5.3.11 - Rate the coordination between the various levels of administration (i.e. national/federal; regional/provincial/state; local/municipal etc.) involved in the management of the World Heritage property**

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

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

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

**5.3.13 - Is the management system being implemented?**

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

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

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

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

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

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

		Not applicable	Non-existent	Poor	Fair	Good
5.3.16.1	Local communities				×	
5.3.16.2	Local/Municipal authorities					×
5.3.16.3	Indigenous peoples	×				
5.3.16.4	Landowners				×	
5.3.16.5	Women					×
5.3.16.6	Youth/Children					×

5.3.16.7	Researchers					×
5.3.16.8	Local Visitors/Tourists					×
5.3.16.9	National/International tourists					×
5.3.16.10	Tourism Industry					×
5.3.16.11	Local businesses and industries		×			
5.3.16.12	NGOs					×
5.3.16.13	Other specific groups	×				
	If you selected 'Other specific groups', please specify					

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

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

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

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

**6. Financial and Human Resources**

**6.1. Funding**

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

		Project costs	Running costs
6.1.1.1	Multilateral funding (GEF, World Bank, etc.)	0 %	0 %
6.1.1.2	Bilateral international funding	0 %	0 %
6.1.1.3	World Heritage Fund (International Assistance)	0 %	0 %
6.1.1.4	Contribution from other conventions and programmes	0 %	0 %
6.1.1.5	International donations (NGOs, foundations, etc.)	0 %	0 %
6.1.1.6	Governmental (national/federal)	73 %	14 %
6.1.1.7	Governmental (regional/provincial/state)	27 %	74 %
6.1.1.8	Governmental (local/municipal)	0 %	12 %
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

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

The available **budget is acceptable** but **could be further improved** to fully meet the management needs

## 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

The government funding of cultural environment management is short-term; the allocation takes place on an annual basis. There is no earmarked long-term government funding for World Heritage management. Temporary government grants are sourced from regular funding of cultural environmental care.

## 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	50 %	50 %
6.1.6.2	Women	50 %	50 %
		Total 100 %	Total 100 %

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

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

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

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

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

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

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

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

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

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

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

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

### 7. Scientific Studies and Research Projects

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

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

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

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

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

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

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

### 8. Education, Information and Awareness Building

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

Local communities	Fair
Local/municipal authorities	Good
Indigenous peoples	Not applicable
Landowners	Poor
Women	Not applicable
Youth/children	Fair
Researchers	Fair
Local visitors	Fair
National/international tourists	Fair
Tourism industry	Fair
Local businesses and industries	Poor
NGOs	Not applicable
Other specific groups	Not applicable
If you selected 'Other specific groups', please describe	

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

There is a planned education and awareness programme for children and/or youth **but it only partly meets the needs**

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

Youth/children
Local Visitors
National/international tourists

#### 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	Good
Site museum	Good

Information booths	Good
Guided tours	Good
Trails/routes	Fair
Printed information materials	Fair
Online (website, social media, etc.)	Good
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

8.4.8. Access to the World Heritage Site by public transport is very limited and visitors are therefore referred to their own means of transport.

## 9. Visitor Management

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

108031 / 88896 / 64261 / 134006 / 126213 /

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

Other

Visitor counters

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

One to three hours

### 9.4 - Please provide the source of information

Experience-based estimation.

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

33 / 33 / 0 / 0 / 0 / 43 /

### 9.6 - Please provide the source of information

Survey conducted by West Sweden Tourist Board in 2022.

### 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 **no strategy** to manage visitors, tourism activity and its derived impacts on the World Heritage property

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

The visitor pressure on the World Heritage sites is not such that any management plan to regulate economic, socio-cultural, and environmental impacts is necessary at the present time. The accessibility measures that are in place are sufficient to manage visitors, and the other specified impacts are low.

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

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

### 9.10 - Is the effectiveness of tourism management regularly monitored?

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

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

In **many locations** and **easily visible** to visitors

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

**No fees** are collected

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

No

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

10. Monitoring

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

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

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

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

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

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

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

The key indicators studied in the monitoring program are: the condition of the rock carvings, land use, number of visitors, settlement development, the yearly financial contribution by the public sector, conservation work man-hours, number of sites receiving conservation work, number of sites made accessible to the public.

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

World Heritage managers/coordinators and staff	Good
Local/municipal authorities	Fair
Local communities	Non-existent
Indigenous peoples	Not applicable
Landowners	Non-existent
Women	Good
Researchers	Good
Tourism industry	Non-existent
Local businesses and industry	Non-existent
NGOs	Non-existent
Other specific groups	Non-existent
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 complete

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

10.7 The recommendations referred to originate from the E6 road upgrading project in which the World Heritage Committee at its twenty-second session recommended the State Party to study specific alternative solutions for the road.

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

11. Identification of Priority Management Needs

11.1 - Identification of Priority Management Needs

5.1	<b>Boundaries and Buffer Zones</b>	
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	✕
5.1.3	The property has <b>no buffer zone, but there is a need for one</b>	
5.1.4	The property has <b>no known and recognised buffer zone</b>	
5.2	<b>Protective Measures</b>	
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	The property has <b>no buffer zone</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	✕
5.3	<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>No use</b> has been made of the Strategy for Reducing Risks from Disasters at World Heritage Properties at the property	
5.3.12	The management system/plan is <b>only partially adequate</b> to maintain the property's Outstanding Universal Value	✕
5.3.13	The management system at the property is <b>only being partially implemented</b>	✕
5.3.17	<ul style="list-style-type: none"> <li><b>In a 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><b>In a 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> </ul>	
6.1	<b>Funding</b>	
6.1.3	The available <b>budget is acceptable</b> but <b>could be further improved</b> to fully meet the management needs of the World Heritage property	✕
6.1.4	Existing sources of funding are <b>not secure</b>	✕
6.1.7	Human resources <b>partly meet</b> 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	There is <b>no site-based</b> capacity building plan or programme in place; management is implemented by external staff and skills are not transferred	
8	<b>Education, Information and Awareness Building</b>	
8.2	There is a planned education and awareness programme for children and/or youth <b>but it only partly meets the needs</b>	
9	<b>Visitor Management</b>	
9.7	There is <b>no strategy</b> to manage visitors, tourism activity and its derived impacts on the World Heritage property	
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 presentation and interpretation of the Outstanding Universal Value of the property <b>is acceptable but improvements could be made</b>	✕
10	<b>Monitoring</b>	
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 0 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

4.5	Biological resource use/modification
-----	--------------------------------------

4.5.3	Land conversion	Criteria IV. The affected attribute is the open culture landscape.	The rate and type of land conversion is being monitored.	GIS analysis.	Ongoing.	County Administrative board.	Existing agricultural subsidies are the guarantor for regulating the rate and type of land conversion.
4.5.10	Forestry/Wood production	Criteria I, III and IV. The affected attributes are the rock carvings and the open cultural landscape.	The forestry/wood production is being monitored.	When performing a clear felling on sites 0.5 hectares or larger you must report this to the Swedish Forest Agency. Conversion of agricultural land to forest production must be reported to the County Administrative board.	Ongoing.	Swedish Forest Agency and County Administrative board.	Forestry can damage the rock carving through the use of wheeled harvesters. Wood production can alter the open culture landscape in a negative direction.
4.7	Local conditions affecting physical fabric						
4.7.3	Temperature	Criteria I and III. The affected attribute is the rock carvings.	The main method to prevent frost-wedging is to reduce the number of freeze/thaw-events is to cover the panels with an insulation material.	Temperature logs. Comparative material loss analysis.	Ongoing.	County Administrative Board.	One of the most aggressive types of weathering are frost-wedging. The granite in the Tanum bedrock absorbs water in pores and cracks, water that expands 9 % with it freezes, threatening to break the rock and destroying the rock carvings.
4.7.6	Water (rain/water table)	Criteria I and III. The affected attribute is the rock carvings.	Water running over sensitive surfaces is being diverted through ditches and sandbags. Panels can be protected from rainwater by covering them with water-repellent fabric, a cost- and labour-intensive method saved for the most damaged or unique sites	Ocular inspection.	Ongoing.	County Administrative Board.	Erosion begins when the rock meets rainwater or condensation, which dissolve the least resilient minerals. This leads to bigger surfaces of rock being exposed and the weakened rock is then vulnerable to more aggressive erosion.
4.7.8	Micro-organisms	Criteria I and III. The affected attribute is the rock carvings.	An effective and gentle method against micro-organism is to cover the rock with an opaque material during the winter. Ethanol is being used as a chemical cleaner, the alcohol kills micro-organisms by drying them out and dissolving the cell membranes	Ocular inspection. Species identification through different methods.	Ongoing.	County Administrative Board.	Micro-organisms contribute to the chemical weathering of the granite. They exude organic acids that leach nutrients from the rock, thus weakening the bond between the mineral particles and making the surface susceptible to other types of weathering.
4.8	Social/Cultural uses of heritage						
4.8.6	Impacts of tourism/Visitation/Recreation	Criteria I and III. The affected attribute is the rock carvings.	Facilities (paths and platforms) guiding the visitor at the tourist destinations to protect the sites. There is a publicly funded and managed reception facility for visitors guiding and informing the visitors to minimize impact.	Visitor counters and daily observations of potential effects.	Ongoing.	County Administrative board, Region Västra Götaland and Tanum municipality.	The positive impacts are source of income for the local community and an opportunity for awareness raising in a World Heritage context.
4.10	Climate change and severe weather events						
4.10.6	Temperature change	Criteria I and III. The affected attribute is the rock carvings.	Actions are being taken to combat the consequences of temperature change, as described in the sections about temperature, water and micro-organisms.	The consequences of temperature and climate change is monitored by tracking the effects on the rock carvings when it comes to humidity, vegetation and exposure to freezing temperatures.	Ongoing.	County Administrative Board.	A milder climate means a longer growing season which favours micro-organisms and other plants that live on and off the granite. The increasing humidity also means that the chemical weathering that the water causes can increase.

4.11	Sudden ecological or geological events						
4.11.6	Fire (wildfire)	Criteria I and III. The affected attribute is the rock carvings.	There is an organization in place to handle fires from a cultural environment perspective. In times of drought, the authorities issue fire bans.	There is an established monitoring method to detect forest fires at an early stage, organized by the Swedish Rescue Services.	Ongoing.	County Administrative board, the Rescue Services.	Forest wildfire is not currently a major threat, but a warmer climate could change that. Fire has the potential to greatly affect world heritage values, above all by destroying entire petroglyph sites.
4.13	Management and institutional factors						
4.13.5	Financial resources	Criteria I and III. The affected attribute is the rock carvings.	Point out the long-term funding shortfalls and the negative effects that follow to responsible decision-makers at all levels and remind the state party of the obligations that come with World Heritage designations.	Annual financial reports.	Ongoing.	All parties dealing with the World Heritage.	Insufficient funding can jeopardize effective management and the long-term conservation of the rock carving sites.
4.13.6	Human resources	Criteria I, III and IV. The affected attribute is the rock carvings and other archaeological vestiges.	The human resource problem is essentially an economic problem, addressed through lobbying work towards responsible authorities to highlight the need for long-term financing of world heritage work.	The matter is monitored through the ongoing collaboration within the management council and annual reporting of financial contributions from the parties.	Ongoing.	County Administrative board, Region Västra Götaland, Tanum municipality.	The management, legal protection and governance is functioning well and generally has a positive impact on the world heritage. There are, however, concerns regarding the long-term supply of financial and human resources.

#### Summary - Factors affecting the Property completed

## 12.2. Summary - Management Needs

### 12.2.1 - Summary - Management Needs

5.1	Boundaries and Buffer Zones				
		Actions	Timeframe	Lead agency (and others involved)	More info / comment
5.1.2	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	The boundaries will be communicated on the new official web site for Tanum World Heritage. Information meetings with local communities and landowners are being planned.	2023	Region Västra Götaland	Increasing the awareness of the boundaries of World Heritage property is part of the effort to increase knowledge of the World Heritage concept in general and the Tanum World Heritage specifically.
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>	This is a matter hard to address on a local or regional level beyond lobbying work towards politicians, legislators, and national authorities. The latter have an important role to play in drawing the attention of responsible ministries to the needs.	Unknown	State party	Existing legislation does not specifically capture World Heritage values at all times, which sometimes makes it difficult to apply the Environmental Code and the Planning and Building Act etc.

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	This is a matter hard to address on a local or regional level beyond lobbying work towards politicians, legislators, and national authorities. The latter have an important role to play in drawing the attention of responsible ministries to the needs.	Unknown.	State party	The "broader setting" is in the case of Tanum part of the OUV and the criterion IV as it relates to the infrastructure, land use patterns, special organization, and visual relationships.
-------	---	---	----------	-------------	--

5.3	<b>Management System/Management Plan</b>				
5.3.12	The management system/plan is <b>only partially adequate</b> to maintain the property's Outstanding Universal Value	The management plan is to be revised with an even greater emphasis on maintaining the property's OUV and monitoring.	2023	The Tanum World Heritage administrative council	The current management plan applies to 2019-2023.
5.3.13	The management system at the property is <b>only being partially implemented</b>	The revised management plan will contain activities that are better adapted to the financial framework of the World Heritage, as well as existing human resources.	2024-	The Tanum World Heritage administrative council	As hinted, sufficient resources are a prerequisite for proper implementation of the management system.

6.1	<b>Funding</b>				
6.1.3	The available <b>budget is acceptable</b> but <b>could be further improved</b> to fully meet the management needs of the World Heritage property	Continue the lobbying work to remind the state party of the obligations that come with World Heritage designations.	Ongoing.	All parties dealing with the World Heritage.	The funding issue is fundamentally a political issue it is therefore the politicians that need to raise the level of ambition to provide better conditions for fully meeting the management needs.
6.1.4	Existing sources of funding are <b>not secure</b>	Continue to point out the negative effects associated with shortcomings in the long-term funding to the responsible authority on the national level.	Ongoing.	County Administrative board.	The state funds for cultural environment maintenance are distributed on an annual basis. A more long-term grant structure would provide better conditions for continuous conservation of archaeological sites.
6.1.7	Human resources <b>partly meet</b> the management needs of the World Heritage property	Staffing is directly dependent on funding. Therefore, see the answers to the previous two questions.	Ongoing.	Tanum Municipality and County Administrative board.	The previously well-functioning structure for maintenance work at the rock carving sites needs to be reworked due to changed labour market measures and deteriorating municipal finances.

9	<b>Visitor Management</b>				
9.12	The presentation and interpretation of the Outstanding Universal Value of the property <b>is acceptable</b> but <b>improvements could be made</b>	A new official web site for the Tanum World Heritage is under construction. The web site will focus on the OUV, management and monitoring, as well as tourist information.	2023	Region Västra Götaland	Target groups for the web site is local communities, landowners, local policymakers, and visitors.



10	Monitoring				
10.2	Information on the values of the World Heritage property is adequate and key indicators have been defined but monitoring of the status of indicators could be improved	A monitoring plan is under construction with an emphasis on the Tanum World Heritage attributes and the indicators expressing these.	2023 and ongoing.	The County Administrative Board, Region Västra Götaland, Tanum Municipality	The monitoring efforts are already on their way and has been so for a long time. The monitoring plan will formalize and structuralize this work.
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 preserved**

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

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

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

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

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

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

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

Comments on potential issues highlighted in the rSOUV: the repowering of existing wind farms in the vicinity of the World Heritage is being closely monitored; the practice of painting rock carving on a few selected panels is implemented in an even more restrictive way.

## 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	Very positive
Quality of life for local communities and indigenous peoples	Positive
Recognition	Very positive
Education	Positive
Infrastructure development	Negative
Funding for the property	Very positive
International cooperation	Very positive
Political support for conservation	Positive
Legal/Policy framework	Positive
Advocacy	Positive
Institutional coordination	Very positive
Security	Not applicable
Gender equality	Not applicable
Provision of ecosystem services/ benefits to local communities	Positive
Social inclusion and equity, and improvement of opportunities for all, irrespective of age, sex, disability, ethnicity, origin, religion, or economic or other status	Not applicable
Fostering inclusive local economic development and enhancing livelihood	Positive

Contributing to conflict prevention, including respect for cultural diversity within and around heritage properties	Not applicable
Other	Not applicable
If 'Other', please specify	

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

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

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

SAMHELL is a cross-boundary cooperation between Sweden and Norway regarding rock art. The project is led by the County Administrative Board in Västra Götaland and the Norwegian Directorate for Cultural Heritage, in partnership with the University of Bergen. The project lasted from 2019 to 2022 and was partly financed through the European Regional Development Fund. During the later decades of the 20th century, it became increasingly clear that several rock art sites were exposed to weathering and suffered risk of destruction. The objective of the project is to promote the exchange of experiences, facilitate learning opportunities and form the foundation of a long-term cross-border cooperation. The overall project objectives are to create: a lasting cross-border collaboration on visualisation, preservation and care of rock art; common routines and methodologies (standards) for documentation, care and visibility of rock art; a joint standardised 3D documentation method.

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

Sustainable Development
State of Conservation
Management
Capacity Building

## 15. Assessment of the Periodic Reporting Exercise

### 15.1. Relevance of Periodic Reporting

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

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

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

State Party	No follow-up
Site Managers	No follow-up
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?

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

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

### 15.3. Timing and resources

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

Governmental institutions responsible for cultural and natural heritage
Site Manager/Coordinator World Heritage property staff
Staff from other World Heritage properties
Other
Municipality, West Sweden Tourist Board

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

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

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

Yes

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

100 / 70 / 50 /

**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?**

**Most** 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**

Practical problems - on multiple occasions we've had answers disappearing between seasons. The content of question 12.1 differed between sessions. Some of the answers that was supposed to be pre-filles was not. The number of allowed characters in some fields are too limited to submit a meaningful answer.

**15.5. Training and Guidance****15.5.1 - Please rate the level of support in terms of training and guidance from the following entities in completing this questionnaire**

UNESCO World Heritage Centre	Fair
UNESCO (other sectors/field offices)	No support
UNESCO National Commission	No support
ICOMOS International	No support
IUCN International	Not applicable
ICCROM international/regional	No support
ICOMOS national/regional	No support
IUCN national/regional	Not applicable

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

UNESCO World Heritage Centre	Fair
State Party Representative (national Focal Point)	Fair
UNESCO other sectors (e.g. field office)	No support
National Commission for UNESCO	No support
ICOMOS International	No support
ICCROM International/regional	No support
ICOMOS national/regional	No support
IUCN national/regional	Not applicable
IUCN International	Not applicable

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

Yes

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

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

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

- **Map(s)**

Reason for update: An updated map of the Tanum World Heritage will be submitted to the World Heritage Centre via the Swedish National Heritage Board, in accordance with CLT/WHC/NOM/22/166.

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

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

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

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