

# Caves and Ice Age Art in the Swabian Jura

## 1. World Heritage Property Data

### 1.1 - Name of World Heritage property


Caves and Ice Age Art in the Swabian Jura

### 1.2 - World Heritage property details

### 1.3 - Geographic information table

Name	Coordinates	Property (ha)	Buffer zone (ha)	Total (ha)	Inscription year
Ach Valley	48.388 / 9.766	271.7	766.8	1038.5	2017
Lone Valley	48.55 / 10.176	190.4	391.9	582.3	2017
<b>Total (ha)</b>		<b>462.1</b>	<b>1158.7</b>	<b>1620.8</b>	

### 1.4 - Map(s)

Title	Date	Link to source
Caves and Ice Age Art in the Swabian Jura - Maps of the inscribed property	2017	

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

#### Comment

<https://www.iceageart.de/en/home> <https://www.denkmalpflege-bw.de/denkmale/unesco-welterbe>  
<https://mlw.baden-wuerttemberg.de/de/denkmalerschutz/unesco-welterbe-in-baden-wuerttemberg>

## 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

World Network of Biosphere Reserves and Global Geoparks Network

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

No

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

No

### 2.5 - Do your national authorities intend to designate whole or part of the World Heritage property as a Man and Biosphere Reserve (if relevant) in the next three years?

No

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

No

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

<b>2.7.1</b>	<b>1954 Hague Convention for the Protection of Cultural Property in the Event of Armed Conflict</b>	
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.	
<b>2.7.2</b>	<b>Second Protocol to the 1954 Hague Convention for the Protection of Cultural Property in the Event of Armed Conflict</b>	
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.	
<b>2.7.3</b>	<b>Convention on Wetlands of International Importance (Ramsar Convention)</b>	
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.	
<b>2.7.4</b>	<b>Man and the Biosphere (MAB) Programme</b>	
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.	
<b>2.7.5</b>	<b>UNESCO Global Geoparks</b>	
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

Modern humans first arrived in Europe 43,000 years ago during the last ice age. One of the areas where they took up residence was the Swabian Jura in southern Germany. Here, ancient peoples lived in and among a series of caves which are now archaeological sites. Excavated from the 1860s up to the present day, these six caves have revealed a long record of human presence, including both anatomically modern humans and Neanderthals before that. The focus of this property are the caves with Aurignacian layers, which date from 43,000 to 33,000 years ago. Among the items found at these sites are carved figurines, musical instruments and items of personal adornment. The figurines depict species of animals who lived in that ice age environment – cave lions, mammoths, birds, horses, bovinds and fish. Other figurines depict creatures that are half animal, half human and there is one statuette of a woman.

Caves and Ice Age Art in the Swabian Jura represents a unique concentration of archaeological sites with some of the oldest figurative art and the oldest musical instruments yet to be found worldwide. Together with the artefacts and the surrounding landscape, they form an outstanding early cultural ensemble that helps to illuminate the origins of human artistic development. The long and highly productive tradition of research at these sites has had a significant influence on the understanding of the Upper Palaeolithic in Europe.

**Criterion (iii):** Caves and Ice Age Art in the Swabian Jura provides an exceptional testimony to the culture of the first modern humans to settle in Europe. Exceptional aspects of this culture that have been preserved in these caves are examples of carved figurines, objects of personal adornment and musical instruments. The art objects are among the oldest yet to be found in the world and the musical instruments are the oldest that have been found to date worldwide.

## Integrity

The property includes all six caves in the region that have had excavations of significant Aurignacian deposits, including the four caves containing figurative art objects and musical instruments and their landscape setting. All the elements necessary to express the values of the property are included in the property boundaries. The property includes sufficient consideration of the setting of the caves in relation to the topography and vegetation of the Lone and Ach valleys, including the limestone cliffs, valley floors and adjacent uplands.

## Authenticity

The authenticity of the property is supported by the presence of stratified geological deposits in the caves that have served to protect the archaeological layers until their excavation and the surrounding landforms that contain the caves. Systematic archaeological research has been undertaken at these sites for more than a century and documentation is ongoing. The archaeological evidence gained from these excavations underpins the authenticity of the property. Several caves have unexcavated deposits, and there are other caves within the property that have not yet been investigated, providing the basis for future research.

## Protection and management requirements

The Cultural Heritage Protection Act of Baden-Württemberg (1972) is the main legal enforcement to ensure the protection of the property. The property is administrated by the Ministry of Economic Affairs, Labour and Housing Baden-Württemberg (formerly Ministry of Finance and Economics) and other branches of state, regional and municipal governments. A dedicated manager has been appointed to oversee the property. A management plan and monitoring system is in place. Activities in the plan address the domains of coordination, credibility, conservation, capacity building, cooperation, communication and communities. The managers of the property should continue to ensure and maintain a balance between knowledge from excavation and conservation of the archaeological deposits. A documentation database should be developed to include data on the caves, the finds and all excavations that have taken place.

**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	remarkable cluster of caves in this part of the Swabian Jura (Geißenklösterle, Sirgenstein, Hohle Fels, Vogelherd, Bockstein, Hohlenstein Stadel caves)	✗			
3.2.2	setting of the caves and archaeological landscape in relation to topography and vegetation of the Lone Valley	✗			
3.2.3	setting of the caves and archaeological landscape in relation to topography and vegetation of the Lone Valley setting of the caves and archaeological landscape in relation to topography and vegetation of the Ach Valley	✗			
3.2.4	Aurignacian layers with figurative art, musical instruments and personal adornment	✗			
3.2.5	unexcavated deposits and caves in the valleys of Ach and Lone	✗			
3.2.6	waste dumps of archaeological excavations of sites Geißenklösterle, Sirgenstein, Hohle Fels, Vogelherd, Bockstein, Hohlenstein Stadel caves	✗			
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

Attribute analysis and mapping was conducted in collaboration with the Institute for Heritage Management, Cottbus, Germany (2022/23).

## 4. Factors Affecting the Property

### 4.1. Buildings and Development

#### 4.1.1 - Housing

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

#### 4.1.2 - Commercial development

Relevant	✕ Not relevant
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#### 4.1.3 - Industrial areas

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

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

Relevant	✕ Not relevant
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#### 4.1.5 - Interpretative and visitation facilities

✕ 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

In the Ach Valley, the towns of Blaubeuren and Schelklingen directly border the WHS. Negative impairments of the visual relationships are to be expected in case of expansion of the settlements or increase of the silhouette of buildings (4.1.1). Industrial facilities such as the Schelklingen cement plant and the TEVA factory Blaubeuren are located in the immediate vicinity and partly in the buffer zone of the WHS and could negatively endanger it visually in case of further expansion (4.1.3).

## 4.2. Transportation Infrastructure

### 4.2.1 - Ground transport infrastructure

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

### 4.2.2 - Underground transport infrastructure

Relevant	✕ Not relevant
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### 4.2.3 - Air transport infrastructure

Relevant	✕ Not relevant
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4.2.4 - Marine transport infrastructure

Relevant	<input checked="" type="checkbox"/> Not relevant
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4.2.5 - Effects arising from use of transportation infrastructure

Relevant	<input checked="" type="checkbox"/> Not relevant
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4.2.6 - Please comment as necessary on how the factors selected as relevant in 4.2 are affecting the property either negatively or positively

An extension with electrification of the railroad facilities through the Ach valley is planned in the future. The expansion may affect the attributes of the site (landscape and visual spaces), as visual relationships may be impaired (4.2.1; negative). Prior review is essential and is already being conducted. The requirements of the World Heritage Site were integrated into the procedure.

4.3. Services Infrastructures

4.3.1 - Water infrastructure

Relevant	<input checked="" type="checkbox"/> Not relevant
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4.3.2 - Renewable energy facilities

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

4.3.3 - Non-renewable energy facilities

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

Relevant	<input checked="" type="checkbox"/> Not relevant
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4.3.5 - Major linear utilities

Relevant	<input checked="" type="checkbox"/> Not relevant
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4.3.6 - Please comment as necessary on how the factors selected as relevant in 4.3 are affecting the property either negatively or positively

Various wind farms have been and are planned outside the two valley areas. Some of the turbines planned in these areas could have a negative impact on the visual relationships of the caves (4.3.2). Prior review is essential and is already being conducted as part of an attribute analysis.

4.4. Pollution

4.4.1 - Pollution of marine waters

Relevant	<input checked="" type="checkbox"/> Not relevant
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4.4.2 - Ground water pollution

Relevant	<input checked="" type="checkbox"/> Not relevant
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4.4.3 - Surface water pollution

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

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

Relevant	<input checked="" type="checkbox"/> Not relevant
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4.4.6 - Input of excess energy

Relevant	<input checked="" type="checkbox"/> Not relevant
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**4.4.7 - Please comment as necessary on how the factors selected as relevant in 4.4 are affecting the property either negatively or positively**

4.5. Biological resource use/modification

**4.5.1 - Fishing/collecting aquatic resources**

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

Relevant	<input checked="" type="checkbox"/> Not relevant
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**4.5.3 - Land conversion**

Relevant	<input checked="" type="checkbox"/> Not relevant
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**4.5.4 - Livestock farming/Grazing of domesticated animals**

Relevant	<input checked="" type="checkbox"/> Not relevant
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**4.5.5 - Crop production**

Relevant	<input checked="" type="checkbox"/> Not relevant
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**4.5.6 - Commercial wild plant collection**

Relevant	<input checked="" type="checkbox"/> Not relevant
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**4.5.7 - Subsistence wild plant collection**

Relevant	<input checked="" type="checkbox"/> Not relevant
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**4.5.8 - Commercial hunting**

Relevant	<input checked="" type="checkbox"/> Not relevant
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**4.5.9 - Subsistence hunting**

Relevant	<input checked="" type="checkbox"/> Not relevant
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**4.5.10 - Forestry/Wood production**

Relevant	<input checked="" type="checkbox"/> Not relevant
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**4.5.11 - Please comment as necessary on how the factors selected as relevant in 4.5 are affecting the property either negatively or positively**

4.6. Physical resource extraction

**4.6.1 - Mining**

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

Relevant	<input checked="" type="checkbox"/> Not relevant
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**4.6.3 - Oil and gas**

Relevant	<input checked="" type="checkbox"/> Not relevant
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**4.6.4 - Water (extraction)**

Relevant	<input checked="" type="checkbox"/> Not relevant
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**4.6.5 - Please comment as necessary on how the factors selected as relevant in 4.6 are affecting the property either negatively or positively**

4.7. Local conditions affecting physical fabric

**4.7.1 - Wind**

Relevant	<input checked="" type="checkbox"/> Not relevant
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**4.7.2 - Relative humidity**

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

Relevant	✕ Not relevant
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4.7.4 - Radiation/Light

Relevant	✕ Not relevant
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4.7.5 - Dust

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

Relevant	✕ Not relevant
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4.7.7 - Pests

Relevant	✕ Not relevant
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4.7.8 - Micro-organisms

Relevant	✕ Not relevant
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4.7.9 - Please comment as necessary on how the factors selected as relevant in 4.7 are affecting the property either negatively or positively

4.8. Social/Cultural uses of heritage

4.8.1 - Ritual/Spiritual/Religious and associative uses

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

4.8.2 - Society's valuing of heritage

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

4.8.3 - Indigenous hunting, gathering and collecting

Relevant	✕ Not relevant
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4.8.4 - Changes in traditional ways of life and knowledge system

Relevant	✕ Not relevant
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4.8.5 - Identity, social cohesion, changes in local population and community

Relevant	✕ Not relevant
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4.8.6 - Impacts of tourism/Visitation/Recreation

✕ 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**

People use caves for new ritual purposes, damaging the archaeological sites using fire and drawing on walls (4.8.1). The sites and its cultural/archaeological values are highly estimated by the local communities (4.8.2/4.8.5). The impact of tourism and increased visitation of the caves needs to be monitored as some negative affects (fire/wall drawing) are visible (4.8.6).

4.9. Other human activities

4.9.1 - Illegal activities

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

4.9.2 - Deliberate destruction of heritage

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

4.9.3 - Military training

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

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

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

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

At Sirgenstein Cave, there have been repeated illegal excavations in or in front of the cave area. Although being small-scale, this affects the cultural monument and thus the attribute (4.9.1). At Sirgenstein cave, various graffiti's were also applied to the walls (4.9.2). The site is regularly monitored and a concept for the regulation of visitors is being elaborated.

4.10. Climate change and severe weather events

4.10.1 - Storms

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

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

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

Relevant	<input checked="" type="checkbox"/> Not relevant
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4.10.5 - Changes to oceanic waters

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

Relevant	<input checked="" type="checkbox"/> Not relevant
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#### 4.10.7 - Other climate change impacts

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

#### 4.11. Sudden ecological or geological events

##### 4.11.1 - Volcanic eruption

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

Relevant	<input checked="" type="checkbox"/> Not relevant
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##### 4.11.3 - Tsunami/Tidal wave

Relevant	<input checked="" type="checkbox"/> Not relevant
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##### 4.11.4 - Avalanche/Landslide

Relevant	<input checked="" type="checkbox"/> Not relevant
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##### 4.11.5 - Erosion and siltation/Deposition

Relevant	<input checked="" type="checkbox"/> Not relevant
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##### 4.11.6 - Fire (wildfire)

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

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

##### 4.12.1 - Translocated species

Relevant	<input checked="" type="checkbox"/> Not relevant
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##### 4.12.2 - Invasive/Alien terrestrial species

Relevant	<input checked="" type="checkbox"/> Not relevant
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##### 4.12.3 - Invasive/Alien freshwater species

Relevant	<input checked="" type="checkbox"/> Not relevant
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##### 4.12.4 - Invasive/Alien marine species

Relevant	<input checked="" type="checkbox"/> Not relevant
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##### 4.12.5 - Hyper-abundant species

Relevant	<input checked="" type="checkbox"/> Not relevant
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##### 4.12.6 - Modified genetic material

Relevant	<input checked="" type="checkbox"/> Not relevant
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**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	<input checked="" type="checkbox"/> Not relevant
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##### 4.13.2 - Legal framework

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










Relevant	<input checked="" type="checkbox"/> Not relevant
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#### 4.13.4 - Management activities

Relevant	✕ Not relevant
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#### 4.13.5 - Financial resources

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

#### 4.13.6 - Human resources

Relevant	✕ Not relevant
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#### 4.13.7 - Low impact research/monitoring activities

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

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

Relevant	✕ Not relevant
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#### 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























At the moment visitor counting devices are being installed, which allow a reading of the frequency of use of the individual cave sites (4.13.7). A regular monitoring of the effect of tourism on the component parts is conducted.











































#### 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						
4.1.1 Housing						
						
4.1.3 Industrial areas						
						
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						
						
4.8 Social/Cultural uses of heritage						
4.8.1 Ritual/Spiritual/Religious and associative uses						

						
4.8.2 Society's valuing of heritage						
						
4.8.6 Impacts of tourism/Visitation/Recreation						
						
4.9 Other human activities						
4.9.1 Illegal activities						
						
4.9.2 Deliberate destruction of heritage						
						
4.13 Management and institutional factors						
4.13.5 Financial 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
4.1.1 Housing						
						

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 checked="" type="checkbox"/>	High capacity
<input type="checkbox"/>	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
4.1.3 Industrial areas			
			

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

✕	Restricted
	Localised
	Extensive
	Widespread

#### Temporal scale - Occurrence of the impact

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

#### Impact - Impact on the attributes



✕	Insignificant
	Minor
	Significant
	Major

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

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

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

	Decreasing
✕	Static
	Increasing

Name	Impact	Origin	Trend
4.1.5 Interpretative and visitation facilities			

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

✕	Restricted
	Localised
	Extensive

	Widespread
<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		

### 4.8 Social/Cultural uses of heritage











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

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

Name	Impact			Origin		Trend
4.8.2 Society's valuing of heritage						

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

	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
4.8.6 Impacts of tourism/Visitation/Recreation						
						

<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					

## 4.9 Other human activities

Name	Impact			Origin		Trend
4.9.1 Illegal activities						



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

Name	Impact			Origin		Trend
4.9.2 Deliberate destruction of heritage						

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

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

#### 4.13 Management and institutional factors

Name	Impact			Origin		Trend
4.13.5 Financial resources	+	!		+		

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

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

#### 4.13.7 Low impact research/monitoring activities


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

	Restricted
	Localised
✕	Extensive
	Widespread

#### Temporal scale - Occurrence of the impact

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

#### Impact - Impact on the attributes

	Insignificant
	Minor
✕	Significant
	Major

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

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

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

	Decreasing
✕	Static
	Increasing

### 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

4.1.1 Ach valley; 4.1.3 Ach valley; 4.1.5 Ach and Lone valley 4.2.1 Ach and Lone valley; 4.3.2 Ach and Lone valley; 4.3.5 Ach and Lone valley; 4.5.3 Lone valley; 4.5.10 Ach and Lone valley; 4.7.4 Ach valley; 4.8.1 Ach and Lone valley; 4.8.2 Ach and Lone valley; 4.8.5 Lone valley; 4.8.6 Ach and Lone valley; 4.9.1 Ach valley; 4.9.2 Ach and Lone valley; 4.11.2 Ach and Lone valley; 4.13.2 Ach and Lone valley; 4.13.5 Ach and Lone valley 4.13.7 Ach and Lone valley

### 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	remarkable cluster of caves in this part of the Swabian Jura (Geißenklösterle, Sirgenstein, Hohle Fels, Vogelherd, Bockstein, Hohlenstein Stadel caves)	✕			
4.18.1.2	setting of the caves and archaeological landscape in relation to topography and vegetation of the Lone Valley	✕			
4.18.1.3	setting of the caves and archaeological landscape in relation to topography and vegetation of the Ach Valley	✕			
4.18.1.4	Aurignacian layers with figurative art, musical instruments and personal adornment	✕			
4.18.1.5	unexcavated deposits and caves in the valleys of Ach and Lone	✕			

## 5. Protection and Management of the Property

### 5.1. Boundaries and Buffer Zones

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

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

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

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

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

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

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

The buffer zones of the World Heritage property **are known and recognised by both** the management authority and local communities/landowners

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

### 5.2. Protective Measures

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

##### Comment

The site is protected by several International Conventions, such as the Valetta Convention (European Convention on the Protection of the Archaeological Heritage - 1992) and the Venice Charter (1964). Other legal instruments such as the European Culutral Convention (1954/1955) the European Convention on the Protection of Archaeological Heritage (1992/2002), have been ratified by German legislation (year of act/ratification).

#### 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

1954 / European Cultural Convention / 1955 /  
<https://www.coe.int/en/web/culture-and-heritage/european-cultural-convention>

1992 / European Convention on the Protection of the Archaeological Heritage / 2002 /  
<https://www.coe.int/en/web/culture-and-heritage/valletta-convention>

1964 / International charter for the conservation and restoration of monuments and sites (Venice Charter) /  
<https://www.icomos.org/en/participer/179-articles-en-francais/ressources/charters-and-standards/157-thevenice-charter>

1990 / Charter for the protection and management of the archaeological heritage (The Lausanne Charter) /  
[https://www.icomos.org/images/DOCUMENTS/Charters/arch\\_e.pdf](https://www.icomos.org/images/DOCUMENTS/Charters/arch_e.pdf)

1993 (2006) / Railway Rearrangement Act Federal Republic of Germany (ENeuOG) / 1993 / yes /

1987 (2014) / Federal Building Code Federal Republic of Germany (BauGB) / 1987 / yes /

1980 (2009) / Federal Mining Act Federal Republic of Germany (BBergG) / 1980 / yes /

1997 (2009) / Federal Spatial Planning Act Federal Republic of Germany (ROG) / 1997 / yes /

1990 (2013) / Federal Environmental Impact Assessment Act Federal Republic of Germany (UVPG) / 1990 / yes /

2009 / Federal Nature Conservation Act Federal Republic of Germany (BNatSchG) / 2009 / yes /

1975 (2010) / Federal Forest Act Federal Republic of Germany (BWaldG) / 1975 / yes /

1999 (2007) / Act to Protect German Cultural Property against Removal Federal Republic of Germany (KultgSchG) / 1999 / yes /

1998 (2012) / Federal Soil Protection Act Federal Republic of Germany (BBodSchG) / 1998 / yes /

1992 (2013) / European Council Directive 92/43/EEC (FFH Directive) / 1992 / yes /  
<https://eur-lex.europa.eu/legal-content/EN/TXT/PDF/?uri=CELEX:31992L0043>

2009 (2019) / European Council Directive 2009/147/EC (Birds Directive) / 2009 / yes /  
<https://eur-lex.europa.eu/legal-content/EN/TXT/PDF/?uri=CELEX:32009L0147>

2015 / Baden-Württemberg Nature Conservation Act / 2015 / yes /

1953 (2015) / Art. 3c (2) of the Constitution of the Federal State of Baden-Württemberg (BWVerf) / 1953 / yes /

1972 (2023) / Cultural Heritage Protection Act Baden-Württemberg (DSchG BW) / 1972 / yes /

1995 (2023) / State Forest Act of the Federal State of Baden-Württemberg (LWaldG BW) / 1995 / yes /

2008 / Ordinance by the Ministry of Food and Rural Affairs on the Biosphere Reserve Area Swabian Alb (VO-Biosphärengebiet / VO Biosphere Reserve Area) / 2008 / yes /

2010 / Ordinance by the Ministry of Food and Rural Affairs relating to the designation of European Bird Protection Areas, (VSG-VO) with Annex 1 / 2010 / yes /

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

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

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

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

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

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

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

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

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

**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**

Other

If 'Other', please specify

federal state (State of Baden-Württemberg)

**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.

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


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**

In 2016 stakeholders of the World Heritage site agreed on a statutory management plan to be in place. The plan and its implementation are governed by the World Heritage office at the State Office for Cultural Heritage Baden-Württemberg. A novel management plan will developed in the coming years, following an effective management assessment.

**5.3.4 - Management Documents**

Title	Status	Available	Date	Link to source
Management Plan	N/A	Available	2017	

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

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

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

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

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

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

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

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

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

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

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

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

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

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

The management system is being **fully implemented and monitored**

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

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

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

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

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

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

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

		Not applicable	No contribution	Limited	Significant	Full achievement
5.3.17.1	The management system of the property contributes to gender equality					×
5.3.17.2	The management system of the property provides ecosystem services/benefits to the local community (e.g. fresh air, water, food, medicinal plants)				×	
5.3.17.3	The management system of the property contributes to social inclusion and equity, improving opportunities for all, irrespective of age, sex, disability, ethnicity, origin, religion or economic or other status				×	

5.3.17.4	The management system of the property integrates a human rights-based approach				×	
5.3.17.5	The management system of the property contributes to fostering inclusive local economic development, and to enhancing livelihood				×	
5.3.17.6	The management system of the property contributes to conflict prevention, including respect for cultural diversity within and around the World Heritage property				×	

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

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

## 6. Financial and Human Resources

### 6.1. Funding

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

		Project costs	Running costs
6.1.1.1	Multilateral funding (GEF, World Bank, etc.)	0 %	0 %
6.1.1.2	Bilateral international funding	0 %	0 %
6.1.1.3	World Heritage Fund (International Assistance)	0 %	0 %
6.1.1.4	Contribution from other conventions and programmes	0 %	0 %
6.1.1.5	International donations (NGOs, foundations, etc.)	0 %	0 %
6.1.1.6	Governmental (national/federal)	0 %	0 %
6.1.1.7	Governmental (regional/provincial/state)	50 %	50 %
6.1.1.8	Governmental (local/municipal)	35 %	35 %
6.1.1.9	In-country donations (NGOs, foundations, etc.)	15 %	15 %
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 adequate** for effective management of the World Heritage property

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

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

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

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

		From local communities %	From elsewhere %
6.1.6.1	Men	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 are **adequate** for management needs

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

Conservation	Good
Environmental sustainability	Fair
Community participation and inclusion	Fair
Risk preparedness	Fair
Capacity development and education	Fair

Administration	Good
Research and monitoring	Good
Awareness raising and public information/communication	Fair
Marketing and promotion	Fair
Interpretation	Fair
Visitor management/tourism	Fair
Enforcement (custodians, police)	Fair

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

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

**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?**

**A site-based** capacity building plan or programme is in place and fully implemented; **all technical skills are being transferred** to those managing the property locally

**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 **adequate**

**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	Fair
Women	Not applicable
Youth/children	Fair
Researchers	Good
Local visitors	Good
National/international tourists	Good
Tourism industry	Good
Local businesses and industries	Not applicable
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?

Local communities
Local/municipal authorities
Women
Youth/children
Researchers
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	Not needed
Guided tours	Good
Trails/routes	Good
Printed information materials	Good
Online (website, social media, etc.)	Good
Transportation facilities	Fair
Other	Not needed
If 'Other' is selected, please specify	

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

### 9. Visitor Management

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

100000 / 60000 / 60000 / 100000 / 110000 /
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#### 9.2 - What information sources are used to collect visitor statistics?

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

One day (no overnight stay)

9.4 - Please provide the source of information

This is an estimation as there have been no visitor surveys that evaluate the number of average length of stay.

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

80 / 20 / 10 / 7 / 0 / 0 /

9.6 - Please provide the source of information

This is an estimation as there have been no visitor surveys that evaluate the approximate average daily visitor expenditure. Price for lodging, tickets or transport depending on the area and the duration of stay. Souvenirs and other retail purchases - no data available.

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

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

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

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

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

9.10 - Is the effectiveness of tourism management regularly monitored?

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

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

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

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

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

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

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

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?

Not applicable

If 'Yes', please specify

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

10. Monitoring

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

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

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

Information on the values of the World Heritage property is **adequate and key indicators have been defined** for measuring the state of conservation and **are being used in monitoring** of how the Outstanding Universal value of the property is being maintained

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

	Extend of indicators	Not applicable	No indicators	Indicators have been defined but are not yet in use	Indicators are in place and in use since the last Periodic Reporting cycle
10.3.1	State of conservation				×
10.3.2	Effectiveness of the management system				×
10.3.3	Character of governance				×

10.3.4	Appropriate synergy with other conservation designations		x		
10.3.5	Contribution to sustainable development			x	
10.3.6	Capacity development	x			

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

#### 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	Fair
Indigenous peoples	Not applicable
Landowners	Fair
Women	Not applicable
Researchers	Fair
Tourism industry	Non-existent
Local businesses and industry	Not applicable
NGOs	Not applicable
Other specific groups	Not applicable
If you selected 'Other specific groups', please specify	

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

Implementation is complete

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

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

### 11. Identification of Priority Management Needs

#### 11.1 - Identification of Priority Management Needs

5.3	Management System/Management Plan	
5.3.5	No use has been made of the Historic Urban Landscape Recommendation to develop policies and best practices for the protection of the property	
5.3.7	No use has been made of the Policy Document on the Impacts of Climate Change on World Heritage Properties at the property	x
5.3.9	No use has been made of the Strategy for Reducing Risks from Disasters at World Heritage Properties at the property	x
6.1	Funding	
6.1.10	No use has been made of the World Heritage Strategy for Capacity Development at the World Heritage property	x
8	Education, Information and Awareness Building	
8.2	There is a planned education and awareness programme for children and/or youth but it only partly meets the needs	x

Please select 1 more issues.

☒ Please save this question to reflect changes

### 12. Summary and Conclusions

#### 12.1. Summary - Factors affecting the Property

##### 12.1.1 - Summary - Factors affecting the Property

4.1	Buildings and Development
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4.1.1	Housing	criterion iii - affected attributes 3.2.2 / 3.2.3 - visual integrity of caves and landscape (potential - possible development of buildings outside property)	The concerns of the world heritage site will be brought into planning processes, if appropriate, in order to prevent the OUV of the site from being endangered.	The concerns of the world heritage site will be brought into planning processes, if appropriate, in order to prevent the OUV of the site from being endangered.	n.a.	State Office for Cultural Heritage Baden-Württemberg	n.a.
4.1.3	Industrial areas	criterion iii - affected attributes 3.2.2 / 3.2.3 - (potential - possible development of industrial complexes outside property)	The concerns of the world heritage site will be brought into planning processes, if appropriate, in order to prevent the OUV of the site from being endangered.	The concerns of the world heritage site will be brought into planning processes, if appropriate, in order to prevent the OUV of the site from being endangered.	n.a.	State Office for Cultural Heritage Baden-Württemberg	n.a.
4.2	<b>Transportation Infrastructure</b>						
4.2.1	Ground transport infrastructure	criterion iii - affected attributes 3.2.2 / 3.2.3 - visual integrity of caves and landscape (potential - possible expansion and electrification of railway line)	The planning process of the railroad line extension will be accompanied by the management authority of the site. The World Heritage Site and its significance for protection are recorded in the various development plans and are taken into account.	1. The concerns of the world heritage site are implemented in the planning process in order to prevent the OUV of the site from being endangered.	1. n.a.	Federal Ministry for Digital and transport; State Office for Cultural Heritage Baden-Württemberg	n.a.
4.3	<b>Services Infrastructures</b>						
4.3.2	Renewable energy facilities	criterion iii - affected attributes 3.2.2 / 3.2.3 - visual relations between caves and landscape (potential - possible development of wind farms)	The planning process of wind farm projects is accompanied by the management authority of the site. The World Heritage Site and its significance for protection are recorded in the various development plans and are taken into account.	The measure is currently only available as a planning stage .The responsible management authorities are involved will be informed in advance and can respond accordingly. Currently an attribute analysis and mapping is under way.	measure is at planning stage	badenovawärmeplus GmbH & Co. KG, Freiburg; State Office for Cultural Heritage Baden-Württemberg	n.a.
4.8	<b>Social/Cultural uses of heritage</b>						
4.8.1	Ritual/Spiritual/Religious and associative uses	criterion iii - affected attributes 3.2.5 - unexcavated deposits and caves in the valleys of Ach and Lone (current - small scale activities at site)	increased monitoring of archaeological sites; installation of visitor counters	regular monitoring; installation of visitor counters	installation of visitor counters has commenced in 2023	State Office for Cultural Heritage Baden-Württemberg	n.a.
4.8.2	Society's valuing of heritage	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
4.8.6	Impacts of tourism/Visitation/Recreation	criterion iii - affected attributes 3.2.5 - unexcavated deposits and caves in the valleys of Ach and Lone	increased monitoring of archaeological sites; installation of visitor counters	1. regular monitoring; installation of visitor counters	installation of visitor counters has commenced in 2023	State Office for Cultural Heritage Baden-Württemberg	n.a.
4.9	<b>Other human activities</b>						
4.9.1	Illegal activities	criterion iii - affected attributes 3.2.5 - unexcavated deposits and caves in the valleys of Ach and Lone	The world heritage site is closely monitored by the site management and appropriate measures will be implemented.	monitoring measures started in 2023 (installation of visitor counters)	monitoring measures started in 2023 (installation of visitor counters)	State Office for Cultural Heritage Baden-Württemberg	n.a.

4.9.2	Deliberate destruction of heritage	criterion iii - affected attributes 3.2.5 - unexcavated deposits and caves in the valleys of Ach and Lone	The world heritage site is closely monitored by the site management and appropriate measures will be implemented.	monitoring measures started in 2023 (installation of visitor counters)	monitoring measures started in 2023 (installation of visitor counters)	State Office for Cultural Heritage Baden-Württemberg	n.a.
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Summary - Factors affecting the Property **completed**

## 12.2. Summary - Management Needs

### 12.2.1 - Summary - Management Needs

5.3	Management System/Management Plan				
		Actions	Timeframe	Lead agency (and others involved)	More info / comment
5.3.7	No use has been made of the Policy Document on the Impacts of Climate Change on World Heritage Properties at the property	no impacts of climate change have been recorded	n.a.	n.a.	n.a.
5.3.9	No use has been made of the Strategy for Reducing Risks from Disasters at World Heritage Properties at the property	n.a.	n.a.	n.a.	n.a.

6.1	Funding				
6.1.10	No use has been made of the World Heritage Strategy for Capacity Development at the World Heritage property	funding is secured	n.a.	n.a.	n.a.

8	Education, Information and Awareness Building				
8.2	There is a planned education and awareness programme for children and/or youth <b>but it only partly meets the needs</b>	programme for school education with UNESCO schools is currently being developed	starting in 2023	State Office for Cultural Heritage / UNESCO schools Baden-Württemberg	n.a.

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.

## 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	Positive
Research and monitoring	Very positive
Management effectiveness	Positive
Quality of life for local communities and indigenous peoples	Positive
Recognition	Positive
Education	Positive
Infrastructure development	Positive
Funding for the property	Positive
International cooperation	Positive
Political support for conservation	Positive
Legal/Policy framework	Positive
Advocacy	Positive
Institutional coordination	Positive
Security	Positive
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	Positive
Fostering inclusive local economic development and enhancing livelihood	Not applicable
Contributing to conflict prevention, including respect for cultural diversity within and around heritage properties	Positive
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

Theme trails to the caves sites have been installed, informing the public about World Heritage in general and this site specifically. Local guides as well as visitors get information about the site and its outstanding universal value, therefore enhancing the knowledge about and protection of the archaeological sites.

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

State of Conservation
Management

## 15. Assessment of the Periodic Reporting Exercise

### 15.1. Relevance of Periodic Reporting

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

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

State Party	Not needed
Site Managers	Not needed
UNESCO World Heritage Centre	Not needed

Advisory Bodies (ICOMOS, IUCN, ICCROM)	Not needed
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## 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
Awareness raising

### 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
ICCROM International/regional

### 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

120 / 50 / 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

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

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

UNESCO World Heritage Centre	Fair
State Party Representative (national Focal Point)	Good

UNESCO other sectors (e.g. field office)	Not applicable
National Commission for UNESCO	Not applicable
ICOMOS International	Not applicable
ICCROM International/regional	Fair
ICOMOS national/regional	Not applicable
IUCN national/regional	Not applicable
IUCN International	Not applicable

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

Yes

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

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

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

No item were proposed for update

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

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

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