

1. World Heritage Property Data

1.1 - Name of World Heritage Property

Comment

Longmen Grottoes

1.2 - World Heritage Property Details

Comment

State(s) Party(ies) : China Type of Property : Cultural
Heritage Identification Number : 1003 Year of inscription on
the World Heritage List : 2000

1.3 - Geographic Information Table

Comment

Name : Longmen Grottoes Coordinates (longitude / latitude)
: North latitude 34°28', East longitude 112°28' Property
(ha):331 Buffer zone (ha):711 Total (ha):1042 Inscription
year:2000

1.4 - Map(s)

1.5 - Governmental Institution Responsible for the Property

Comment

Name : Chen Ailan Organization : Henan Provincial
Administration of Cultural Heritage Address : 8 Nong Yie
Road, Zhengzhou City, Henan Province Post Code :
450002 Tel : 86--0371--63850199 86--0371--63610995 Fax
: 86-- 0371-63850606 E-mail : chalan57@yahoo.com.cn

1.6 - Property Manager / Coordinator, Local Institution / Agency

Comment

Name: Wang Yongxing Organization : Administration of
Longmen Grottoes World Cultural Heritage Zone Address : 13
Longmen Middle Street, Luoyang City, Henan Province Post
Code : 471023 Tel : 86--0379--65980216 Fax : 86--0379--
65983302 E-mail : MCL323@126.com

1.7 - Web Address of the Property (if existing)

Comment

www.lmsk.cn

1.8 - Other designations / Conventions under which the property is protected (if applicable)

Comment

no other designation/convention

2. Statement of Outstanding Universal Value

2.1 - Statement of Outstanding Universal Value / Statement of Significance

Comment

The retrospective statement of OUV has been submitted to
the World Heritage Center for examination before February
1st, 2011.

2.2 - The criteria (2005 revised version) under which the property was inscribed

Comment

Criterion: (i) (ii) (iii)

2.3 - Attributes expressing the Outstanding Universal Value per criterion

(i) The sculptures and caves. (ii) Integration of Indian and
Chinese cultures, developed a typical style of central China.
(iii) A typical imperial style in the art of stone carving

2.4 - If needed, please provide details of why the Statement of Outstanding Universal Value should be revised

No comment

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

No comment

3. Factors Affecting the Property

3.14. Other factor(s)

3.14.1 - Other factor(s)

Springs dried up

3.15. Factors Summary Table

3.15.1 - Factors summary table

	Name	Impact	Origin			
3.1	Buildings and Development					
3.1.1 Housing						
3.1.5 Interpretative and visitation facilities						
3.2	Transportation Infrastructure					
3.2.1 Ground transport infrastructure						
3.3	Services Infrastructures					
3.3.1 Water infrastructure						
3.4	Pollution					
3.4.3 Surface water pollution						
3.7	Local conditions affecting physical fabric					
3.7.1 Wind						
3.7.2 Relative humidity						
3.7.3 Temperature						
3.7.4 Radiation/light						
3.7.5 Dust						
3.7.6 Water (rain/water table)						
3.7.7 Pests						
3.7.8 Micro-organisms						
3.8	Social/cultural uses of heritage					
3.8.2 Society's valuing of heritage						
3.8.6 Impacts of tourism / visitor / recreation						
3.10	Climate change and severe weather events					
3.10.2 Flooding						
3.10.6 Temperature change						
3.11	Sudden ecological or geological events					
3.11.2 Earthquake						
3.11.6 Fire (wildfires)						
3.13	Management and institutional factors					
3.13.1 Low impact research / monitoring activities						
3.13.3 Management activities						
Legend	Current	Potential	Negative	Positive	Inside	Outside

3.16. Assessment of current negative factors

3.16.1 - Assessment of current negative factors

	Spatial scale	Temporal scale	Impact	Management response	Trend
3.7	Local conditions affecting physical fabric				
3.7.6	Water (rain/water table)	restricted	one off or rare	minor	high capacity
3.10	Climate change and severe weather events				
3.10.2	Flooding				
3.10.6	Temperature change				

3.17. Comments, conclusions and / or recommendations related to factors affecting the property

3.17.1 - Comments

Factors affecting Longmen Grottoes should be in control.

4. Protection, Management and Monitoring of the Property

4.1. Boundaries and Buffer Zones

4.1.1 - Buffer zone status

There is a buffer zone

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

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

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

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

4.1.4 - Are the boundaries of the World Heritage property known?

The boundaries of the World Heritage property are known by both the management authority and local residents / communities / landowners.

4.1.5 - Are the buffer zones of the World Heritage property known?

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

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

no comment

4.2. Protective Measures

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

Comment

The Longmen Grottoes are State Priority Protected Cultural Heritage Site, under the "Law of the People's Republic of China for the Protection of Cultural Relics".

4.2.2 - Is the legal framework (i.e. legislation and / or regulation) adequate for maintaining the

Outstanding Universal Value including conditions of Integrity and / or Authenticity of the property?

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

4.2.3 - 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 for the maintenance of the Outstanding Universal Value including conditions of Authenticity and / or Integrity of the World Heritage property provides **an adequate or better basis** for effective management and protection

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

The legal framework for the area surrounding the World Heritage property and the buffer zone provides **an adequate or better 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

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

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

4.2.6 - Comments, conclusions and / or recommendations related to protective measures

No comments

4.3. Management System / Management Plan

4.3.1 - Management System

Comment

Longmen Grottoes Academy, a special agency representing the state to exercise the protection and management of Longmen Grottoes, affiliates several functional bodies related to the protection of the relics, such as the protection center, research center, information center and the security department, etc. There is the Conservation Plan for Longmen Grottoes Area, which has been implemented since 2001. In addition, annual work plan is made with executable and detailed heritage management system

4.3.2 - Management Documents

Comment

Conservation Plan for Longmen Grottoes Area

4.3.3 - How well do the various levels of administration (i.e. national / federal; regional /

provincial / state; local / municipal etc.) coordinate in the management of the World Heritage Property ?

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

4.3.4 - 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

4.3.5 - Is the management system being implemented?

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

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

An annual work / action plan exists and **most or all activities** are being implemented and monitored

4.3.7 - Please rate the cooperation / relationship with World Heritage property managers / coordinators / staff of the following

Local communities / residents	Good
Local / Municipal authorities	Good
Indigenous peoples	Not applicable
Landowners	Not applicable
Visitors	Good
Researchers	Good
Tourism industry	Good
Industry	Good

4.3.8 - If present, do local communities resident in or near the World Heritage property and / or buffer zone have input in management decisions that maintain the Outstanding Universal Value?

Local communities **directly contribute** to some decisions relating to management

4.3.9 - If present, do indigenous peoples resident in or regularly using the World Heritage property and / or buffer zone have input in management decisions that maintain the Outstanding Universal Value?

No indigenous peoples are resident in or regularly using the World Heritage property and / or buffer zone

4.3.10 - Is there cooperation with industry (i.e. forestry, mining, agriculture, etc.) regarding the management of the World Heritage property, buffer zone and / or area surrounding the World Heritage property and buffer zone?

There is **regular contact** with industry regarding the management of the World Heritage property, buffer zone and / or area surrounding the World Heritage property and buffer zone and **substantial co-operation** on management

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

Longmen Grottoes has set up management system which is implemented step by step.

4.3.12 - Please report any significant changes in the legal status and / or contractual / traditional protective measures and management arrangements for the World Heritage property since inscription or the last Periodic report

No comments

4.4. Financial and Human Resources

4.4.1 - Costs related to conservation, based on the average of last five years (relative percentage of the funding sources)

Multilateral funding (GEF, World Bank, etc)	0%
International donations (NGO's, foundations, etc)	5%
Governmental (National / Federal)	15%
Governmental (Regional / Provincial / State)	15%
Governmental (Local / Municipal)	20%
In country donations (NGO's, foundations, etc)	2%
Individual visitor charges (e.g. entry, parking, camping fees, etc.)	40%
Commercial operator payments (e.g. filming permit, concessions, etc.)	2%
Other grants	1%

4.4.2 - International Assistance received from the World Heritage Fund (USD)

Comment

none

4.4.3 - 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

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

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

4.4.5 - Does the World Heritage property provide economic benefits to local communities (e.g. income, employment)?

There is **some flow** of economic benefits to local communities

4.4.6 - Are available resources such as equipment, facilities and infrastructure sufficient to meet management needs?

There are **some** adequate equipment and facilities, but deficiencies in at least one key area **constrain** management at the World Heritage property

4.4.7 - Are resources such as equipment, facilities and infrastructure adequately maintained?

Equipment and facilities are **well maintained**

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

The budget for heritage management is reasonable, and more funding support is needed.

4.4.9 - Distribution of employees involved in managing the World Heritage property (% of total)

Full-time	70%
Part-time	30%

4.4.10 - Distribution of employees involved in managing the World Heritage property (% of total)

Permanent	95%
Seasonal	5%

4.4.11 - Distribution of employees involved in managing the World Heritage property (% of total)

Paid	95%
Volunteer	5%

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

Human resources are **inadequate** for management needs

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

Research and monitoring	Good
Promotion	Good
Community outreach	Poor
Interpretation	Good
Education	Fair
Visitor management	Fair
Conservation	Good
Administration	Good
Risk preparedness	Good
Tourism	Fair
Enforcement (custodians, police)	Good

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

Research and monitoring	High
Promotion	Medium
Community outreach	Not available
Interpretation	Medium
Education	High
Visitor management	Medium
Conservation	High
Administration	High
Risk preparedness	Medium
Tourism	Medium
Enforcement (custodians, police)	High

4.4.15 - Do the management and conservation programmes at the World Heritage property help develop local expertise?

A capacity development plan or programme is **in place and fully implemented**; all technical skills are being transferred to

those managing the property locally, who are assuming leadership in management

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

The human resources and professional skills should be strengthened.

4.5. Scientific Studies and Research Projects

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

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

4.5.2 - 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

4.5.3 - Are results from research programmes disseminated?

Research results are **shared widely** with the local, national and international audiences

4.5.4 - Please provide details (i.e. authors, title, and web link) of papers published about the World Heritage property since the last Periodic Report

1.Liu Jing-long. Study on the Construction Age of Longmen grottoes, Study on the Cave Temples, November,2010; 2.Fang Yun, etc. Study on grouting experimental against seepage of the Longmen Grottoes, Study on the cave temples, November,2010; 3.Machaolong,etc. Analysis on Treatment of Leaking water from Fengxiansi Cave to Wanfodong Cave in Longmen Grottoes/ Dunhuang Research,November,2007;

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

We have been monitoring the surroundings and environment around the grottoes all days and nights, which turns out that the conservation environment is good. we have made important tests and practices to solve the major problem of water leaking in the caves and found that the water leaking has been decreased.

4.6. Education, Information and Awareness Building

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

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

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

Local communities / residents	Excellent
Local / Municipal authorities within or adjacent to the property	Excellent
Local Indigenous peoples	Not applicable
Local landowners	Excellent
Visitors	Excellent
Tourism industry	Excellent
Local businesses and industries	Excellent

4.6.3 - Is there a planned education and awareness programme linked to the values and management of the World Heritage property?

There is a planned education and awareness programme but it only **partly meets the needs** and could be improved

4.6.4 - What role, if any, has designation as a World Heritage property played with respect to education, information and awareness building activities?

World Heritage status has influenced education, information and awareness building activities, **but it could be improved**

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

The Outstanding Universal Value of the property is adequately presented and interpreted **but improvements could be made**

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

Visitor centre	Adequate
Site museum	Adequate
Information booths	Adequate
Guided tours	Excellent
Trails / routes	Excellent
Information materials	Adequate
Transportation facilities	Excellent
Other	Adequate

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

Longmen Grottoes plays a good role in education, information and awareness building for its abundant knowledge and historic events. Most visitors view fields are enlarged and their patriotic passions are strengthened through sightseeing at Longmen Grottoes. They understand the reason of conservation and its importance.

4.7. Visitor Management

4.7.1 - Please provide the trend in annual visitation for the last five years

Last year	Minor Increase
Two years ago	Minor Increase
Three years ago	Minor Increase

Four years ago	Minor Increase
Five years ago	Minor Increase

4.7.2 - What information sources are used to collect trend data on visitor statistics?

Entry tickets and registries
Tourism industry
Visitor surveys

4.7.3 - Visitor management documents

Comment

Longmen Grottoes Conservation Master Plan

4.7.4 - Is there an appropriate visitor use management plan (e.g. specific plan) for the World Heritage property which ensures that its Outstanding Universal Value is maintained?

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

4.7.5 - Does the tourism industry contribute to improving visitor experiences and maintaining the values of the World Heritage property?

There is **excellent co-operation** between those responsible for the World Heritage property and the tourism industry to present the Outstanding Universal Value and increase appreciation

4.7.6 - If fees (i.e. entry charges, permits) are collected, do they contribute to the management of the World Heritage property?

The fee is collected and makes a **substantial contribution** to the management of the World Heritage property

4.7.7 - Comments, conclusions and / or recommendations related to visitor use of the World Heritage property

Improve the satisfaction of tourists by using information technology.

4.8. Monitoring

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

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

4.8.2 - Are key indicators for measuring the state of conservation used to monitor how the Outstanding Universal Value of the property is maintained?

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

4.8.3 - Please rate the level of involvement in monitoring of the following groups

World Heritage managers / coordinators and staff	Excellent
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Local / Municipal authorities	Average
Local communities	Poor
Researchers	Average
NGOs	Average
Industry	Poor
Local indigenous peoples	Not applicable

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

No relevant Committee recommendations to implement

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

No comments.

4.8.6 - Comments, conclusions and / or recommendations related to monitoring

No comment.

4.9. Identification of Priority Management Needs

4.9.1 - Please select the top 6 managements needs for the property (if more than 6 are listed below)

Please refer to question 5.2

5. Summary and Conclusions

5.1. Summary - Factors affecting the Property

5.1.1 - Summary - Factors affecting the Property

	World Heritage criteria and attributes affected	Actions	Monitoring	Timeframe	Lead agency (and others involved)	More info / comment
3.7	Local conditions affecting physical fabric					
3.7.6	Water (rain/water table)	Water can affect criterion (i), which influences the conservation of the statues. They can wide the cracks in the caves and make the surface of statues bad. In a word, water is the first vital destructive factor for the conservation of caves.	Grouting against seepage, change the direction of the overland flow.	Disease monitoring, environment monitoring, such as using cameras and vidicons to record the status of seepage in the caves.	Long-term and continous.	Longmen Grottoes Academy The influence has been minimum throughout our efforts.

5.2. Summary - Management Needs

5.2.2 - Summary - Management Needs

4.4 Financial and Human Resources						
	Actions	Timeframe	Lead agency (and others involved)	More info / comment		
4.4.12	Human resources inadequate for management needs	strengthen the training of the professional staffs and absorb more professional to work for the conservation of the property	2011-2015	Administration of Longmen Grottoes World Cultural Heritage Zone	no comment	

5.3. Conclusions on the State of Conservation of the Property

5.3.1 - Current state of Authenticity

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

5.3.2 - Current state of Integrity

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

5.3.3 - Current state of the World Heritage property's Outstanding Universal Value

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

5.3.4 - 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 **predominantly intact**

5.4. Additional comments on the State of Conservation of the Property

5.4.1 - Comments

Though the Longmen Grottoes has suffered from natural factors, a lot of conservation and management measures have been taken to preserve the authenticity and integrity of the heritage.

6. World Heritage Status and Conclusions on Periodic Reporting Exercise

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

Conservation	Very positive
Research and monitoring	Very positive
Management effectiveness	Positive
Quality of life for local communities and indigenous peoples	Positive
Recognition	Positive
Education	Very positive
Infrastructure development	Positive
Funding for the property	Very positive
International cooperation	Very positive
Political support for conservation	Very positive
Legal / Policy framework	Very positive
Lobbying	Positive
Institutional coordination	Positive
Security	Very positive
Other (please specify)	Not applicable

6.2 - Comments, conclusions and / or recommendations related to World Heritage status

no comment

6.3 - Entities involved in the preparation of this Section of the Periodic Report

Governmental institution responsible for the property

Site Manager/Coordinator/World Heritage property staff
External experts
Advisory bodies

6.4 - Was the Periodic Reporting questionnaire easy to use and clearly understandable?

yes

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

No comments.

6.6 - Please rate the level of support for completing the Periodic Report questionnaire from the following entities

UNESCO	Very good
State Party Representative	Very good
Advisory Body	Good

6.7 - How accessible was the information required to complete the Periodic Report?

Most of the required information was accessible

6.8 - The Periodic Reporting process has improved the understanding of the following

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

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

UNESCO	Excellent
State Party	Excellent
Site Managers	Excellent
Advisory Bodies	Satisfactory

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

- **Name of World Heritage Property**
Reason for update: Longmen Grottoes
- **The criteria (2005 revised version) under which the property was inscribed**
Reason for update: Criterion: (i) (ii) (iii)
- **Statement of Outstanding Universal Value / Statement of Significance**
Reason for update: The retrospective statement of OUV has been submitted to the World Heritage Center for examination before February 1st, 2011.
- **Geographic Information Table**
Reason for update: Name : Longmen Grottoes
Coordinates (longitude / latitude) : North latitude 34°28' , East longitude 112°28' Property (ha):331 Buffer zone (ha):711 Total (ha):1042 Inscription year:2000

6.11 - Comments, conclusions and / or recommendations related to the Assessment of the Periodic Reporting exercise

Regular reports can help checking the influential and possible problems of conservation and management in site.