

# Ramsar Information Sheet

Published on 23 August 2019

# **Ukraine**Romania-Friendship Cave



Designation date 20 March 2019
Site number 2396
Coordinates 48°15'21"N 23°37'56"E
Area 0,13 ha

https://rsis.ramsar.org/ris/2396 Created by RSIS V.1.6 on - 9 September 2019

# Color codes

Fields back-shaded in light blue relate to data and information required only for RIS updates.

Note that some fields concerning aspects of Part 3, the Ecological Character Description of the RIS (tinted in purple), are not expected to be completed as part of a standard RIS, but are included for completeness so as to provide the requested consistency between the RIS and the format of a 'full' Ecological Character Description, as adopted in Resolution X.15 (2008). If a Contracting Party does have information available that is relevant to these fields (for example from a national format Ecological Character Description) it may, if it wishes to, include information in these additional fields.

# 1 - Summary

#### Summary

The Friendship (Romania) Cave is a unique underground formation with fluctuating water regime, and it is the biggest cave in Ukrainian Carpathians. The wetland is a locality for a number of troglobite endemic invertebrate species, some of which became known only from this cave system, and hosts 14 globally important bat species in particular during their hibernation period. The wetland is significant for flood mitigation and is crucial in this aspect for the villages located down in the valley of Tereblia River, because it accumulates a great amount of precipitation and water coming from snow melting. The cave's formation is associated with a giant limestone block of several cubic km – a specific feature of the tectonic Pieniny Klippen Belt, which passes through the southern part of the Uholka massif. The entrance to the cave is located at the bottom of an elliptic karst depression (10 x 15 m) with almost vertical walls. The shaft is of a gap type. At the depth of 30 m, there is a stream which surfaces as a karst source. The total length of the investigated corridors is 980 m, depth – 55 m. The Site is part of a core and buffer zones within the Carpathian Biosphere Reserve and located within the UNESCO World Natural Heritage Site "Ancient and Primeval Beech Forests of the Carpathians and Other Regions of Europe" (2017).

# 2 - Data & location

# 2.1 - Formal data

# 2.1.1 - Name and address of the compiler of this RIS

# Compiler 1

Compiler 2

Name	Bohdan Prots							
Institution/agency	State Museum of Natural History National Academy of Sciences of Ukraine and WWF Danube Carpathian Programme							
Postal address	Teatralna Str., 18, 79008, Lviv, Ukraine and Mushaka Str., 42, 79011 Lviv, Ukraine							
E-mail	bohdan.prots@gmail.com							
Phone	+38 0673533813							
Fax	+38 0322356917							
Name	Vasyl Pokynchereda							
Institution/agency	Carpathian Biosphere Reserve							
Postal address	Krasne Pleso Str., 77, Rachiv, Zakarpatska Oblast, Ukraine, 90600							
E-mail	pokynchereda@ukr.net							
Phone	+38 0673 100158							
Fax	+38 03132 22632							

#### 2.1.2 - Period of collection of data and information used to compile the RIS

From year 2011

To year 2018

### 2.1.3 - Name of the Ramsar Site

Official name (in English, French or Spanish)

Romania-Friendship Cave

Unofficial name (optional)

Печера Румунія-Дружба (Pechera Romania-Druzhba)

#### 2.2 - Site location

# 2.2.1 - Defining the Site boundaries

#### b) Digital map/image

<2 file(s) uploaded>

Former maps 0

# Boundaries description

The Site situated in Tiachiv district, Zakarpatska Oblast (approximately 120 km south-eastwards of Uzhgorod, 40 km north of Tiachiv and 4 km east of closest Kycherely village). The cave is located within the Rika-Apsha dissected rocky low mountains made of flysch molasses containing giant limestone blocks-olistoliths. Area of the Site – 0.1375 ha, volume – 5500 m3, total length of corridors – 900 m. The entire cave system, as well as the surface above the cave, are part of the Ramsar Site.

The Site territory is a part of a core zone within the Carpathian Biosphere Reserve.

# 2.2.2 - General location

a) In which large administrative region does the site lie?	Zakarpatska Oblast
b) What is the nearest town or population centre?	Tiachiv town

# 2.2.3 - For wetlands on national boundaries only

a) Does the wetland extend onto the territory of one or more other countries?

b) Is the site adjacent to another designated Ramsar Site on the territory of another Contracting Party? Yes O No lacktriangle

# 2.2.4 - Area of the Site

Official area, in hectares (ha): 0.13

Area, in hectares (ha) as calculated from GIS boundaries 0.13

# 2.2.5 - Biogeography

#### Biogeographic regions

Regionalisation scheme(s)	Biogeographic region
EU biogeographic regionalization	Apine

#### Other biogeographic regionalisation scheme

European-Siberian boreal sub-region, European-West Siberian forest province, Central European zone, Carpathian district, Montane-forest

# 3 - Why is the Site important?

# 3.1 - Ramsar Criteria and their justification

☑ Criterion 1: Representative, rare or unique natural or near-natural wetland types

Hydrological services provided

The wetland is significant for flood mitigation and is crucial in this aspect for the villages located down in the valley, because it accumulates a great amount of precipitation and water formed by snow melting.

Other ecosystem services provided

Cleaning water function for local communities downstream for part of Tereblia river basin.

The site is the biggest cave in the Ukrainian Carpathians, which makes it an important object for scientific Other reasons research, ecological education and recreation. The wetland is a unique underground natural formation, a habitat for a troglobiont thanatocoenosis characteristic for the Ukrainian Carpathians.

- Criterion 2 : Rare species and threatened ecological communities
- ☑ Criterion 3: Biological diversity

The site is an important hibernation place for 12 bat species, which are important for maintaining the biotic diversity within the region. The wetland is a typical locality for a number of troglobite endemic Justification invertebrate species, which have been described within the last decades: Willemia wirae Kaprus', 1997, Arrhopalites carpathicus Vargovich, 1999 (Collembola), Duvalius transcarpathicus Shilenkov and Rizun, 1989, Duvalius werchratskii Rizun and Janicki, 1994 (Carabidae).

- ☑ Criterion 4 : Support during critical life cycle stage or in adverse conditions
- 3.2 Plant species whose presence relates to the international importance of the site

Not identified.

3.3 - Animal species whose presence relates to the international importance of the site

Phylum	Scientific name	Common name	Species qualifies under criterion	Species contributes under criterion	Pop. Size	ccurrence	IUCN ( Red Ap List	CITES opendix Ap	CMS pendix I	Other Status	Justification
Others											
CHORDATA / MAMMALIA	Barbastella barbastellus	Western Barbastelle	<b>2</b> 200				NT			listed in the Red Data Book of Ukraine - CR	supports during hibernation period
CHORDATA / MAMMALIA	Myotis blythii	lesser mouse- eared bat; Lesser Mouse-eared Myotis	2200				LC			listed in the Red Data Book of Ukraine - VU	supports during hibernation period
CHORDATA / MAMMALIA	daubentonii	Daubenton's Myotis					LC			listed in the Red Data Book of Ukraine - VU	supports during hibernation period
CHORDATA / MAMMALIA	Myotis emarginatus	Geoffroy's bat; Geoffroy's Myotis	<b>2</b> 200				LC			listed in the Red Data Book of Ukraine - CR	supports during hibernation period
CHORDATA / MAMMALIA	Myotis myotis	mouse-eared bat; Mouse-eared Myotis	2200		)		LC			listed in the Red Data Book of Ukraine - VU	supports during hibernation period
CHORDATA / MAMMALIA	Myotis mystacinus	whiskered myotis; whiskered bat	2200		)		LC			listed in the Red Data Book of Ukraine - VU	supports during hibernation period
MAMMALIA	Plecotus auritus	brown big-eared bat; Brown Long- eared Bat	2200				LC			listed in the Red Data Book of Ukraine - VU	supports during hibernation period
CHORDATA / MAMMALIA	austriacus	gray big-eared bat; Gray Long-eared Bat			]		LC			listed in the Red Data Book of Ukraine - RARE	supports during hibernation period
MANMALIA	Rhinolophus ferrumequinum	greater horseshoe bat			]		LC			listed in the Red Data Book of Ukraine - VU	supports during hibernation period
MAMMALIA	Rhinolophus hipposideros	lesser horseshoe bat	2200		]		LC			listed in the Red Data Book of Ukraine - VU	supports during hibernation period
CHORDATA / AMPHIBIA	Salamandra salamandra						LC			listed in the Red Data Book of Ukraine - VU	supports during spawning and reproduction period

<sup>1)</sup> Percentage of the total biogeographic population at the site

The site is an important hibernation place for a number bat species, which are important for maintaining the biotic diversity within the region. The wetland is a typical locality for a number of troglobite endemic invertebrate species, which have been described within the last decades: Willemia wirae Kaprus', 1997, Arrhopalites carpathicus Vargovich, 1999 (Collembola), Duvalius transcarpathicus Shilenkov and Rizun, 1989, Duvalius werchratskii Rizun and Janicki, 1994 (Carabidae). There is a high probability to still find cave invertebrate species new for science here. The wetland shelters 14 Chiropteran species for hibernation. Thanks to the stable temperature situation and a high humidity about 1000-1700 bats hibernate there annually.

# 3.4 - Ecological communities whose presence relates to the international importance of the site

Name of ecological community	Community qualifies under Criterion 2?	Description	Justification					
Terrestrial underground caves, cave systems, passages and waterbodies		Natural caves, cave systems, underground waters and subterranean interstitial spaces.	EUNIS habitat type (code H1). Bern Convention, Resolution 4 habitat type, used for designation of Emerald sites					

# 4 - What is the Site like? (Ecological character description)

# 4.1 - Ecological character

It is a corrosion-erosion karst cave with an entrance gap. The cave starts with a vertical shaft of 21 m deep, which leads to a chamber 20x15 m with a cone-shaped boulder heap on the floor. From the entrance chamber, there starts a network of corridors going northwards, southeastwards and westwards. There are 6 streams within the cave, two of which are going across the main chamber and flow together. The others enter in turn the basic watercourse, which flows along the main gallery and gushes as a stream out of the cave, located 70 m lower than the main entrance. Air temperature in the remote places is 8-9°C, water temperature is lower by 1-1.5°C; humidity 98-100%.

The catchment area is represented by slopes between 15 and 30 degrees, and in some places up to 40 degrees, which are dissected by river valleys. The massif is mostly made of marls and sandstones, and also of Jurassic limestone and Cretaceous conglomerates. Brown montane-forest soils dominate here.

# 4.2 - What wetland type(s) are in the site?

#### Inland wetlands

Wetland types (code and name)	Local name	Ranking of extent (1: greatest - 4: least)	Area (ha) of wetland type	Justification of Criterion 1
Fresh, saline, brackish or alkaline water > Subterranean >> Zk(b): Karst and other subterranean hydrological systems		1	0.13	Unique

(ECD) Habitat connectivity Isolated type of habitat, refugium, unique type

# 4.3 - Biological components

#### 4.3.1 - Plant species

<no data available>

#### 4.3.2 - Animal species

<no data available>

# 4.4 - Physical components

# 4.4.1 - Climate

Climatic region	Subregion
D: Moist Mid-Latitude	Dfb: Humid continental (Humid with severe winter, no dry season, warm
	summer)

The climate of the site is temperate, mean annual air temperature is +7°C, mean temperature in July is +17 °C, and in January -4 °C. Mean annual precipitation equals 948 mm, of which 622 mm occurs during the growing season. The air humidity is high.

# 4.4.2 - Geomorphic setting

a) Mnimum elevation above sea level (in metres)
a) Maximum elevation above sea level (in metres)
Entire river basin
Upper part of river basin 🗵
Middle part of river basin
Lower part of river basin
More than one river basin
Not in river basin
0

Please name the river basin or basins. If the site lies in a sub-basin, please also name the larger river basin. For a coastal/marine site, please name the sea or ocean.

Mala Uholka river bas	sin, which is a p	oart of Tei	reblia river basin and p	art of upper Tysa (Tisza) river basin, which is included into Danube basin.
4.4.3 - Soil				
			Mneral ☑	
			Organic ☑	
		No availat	ble information	
Are soil types subject to	change as a resu			
conditi	ions (e.g., increase	ed salinity or		
Please provide further information Brown montane-fores				
brown montane-tores	st sons dominat	e nere.		
4.4.4 - Water regime				
Water permanence				
Presence? Usually permanent water				
present	No chan	ge		
Source of water that maintain				
Presence?	Predominant wa	ter source		
Water inputs from rainfall			No change	
Water inputs from surface water			No change	
Water inputs from groundwater			No change	
Water destination				
Presence?			1	
Feeds groundwater	No chan	ge		
Stability of water regime  Presence?	1			
Water levels largely stable	No chan	ge		
	cant for flood m	nitigation	and is crucial in this as	this box to explain sites with complex hydrology. Dect for the villages located down in the valley, because it accumulates a
(ECD) Connectivity of surfa	•		-	and water and are at a one budgetonical australia
	groundwater	The Cave	e water is linked to suri	ace water and create one hydrological system
(ECD) Stratification a	and mixing regime	No data		
445.0 "				
4.4.5 - Sediment regim	ne			
Signifi	cant erosion of se	diments occ	curs on the site	
Significant accretion of	or deposition of se	diments occ	curs on the site $\square$	
Significant transportation	on of sediments oc	curs on or th	hrough the site $\square$	
Sediment regime is highl	ly variable, either s	easonallyo	r inter-annually 🗆	
	8	Sediment re	gime unknown 🗆	
(ECD) Water tu			aness of water, high qu	ality level.
	Vater temperature			,
4.4.6 - Water pH				
			Acid (pH<5.5) □	
	С		al (pH: 5.5-7.4 ) 🗹	
		Ak	caline (pH>7.4) ☑	
			Unknown	
Please provide further infor				
The water pH is changed Circumneutral (7.2-7.4		ominant p	eriod of time the water	pH is alkaline (7.5-8.1), however in the lengthy rainy periods it become

4.4.7 - Water salinity

Fresh (<0.5 g/l) ☑
Mxohaline (brackish)/Mxosaline (0.5-30 g/l) □
Euhaline/Eusaline (30-40 g/l) □
Hyperhaline/Hypersaline (>40 g/l) □
Unknown □
.4.8 - Dissolved or suspended nutrients in water
Eutrophic 🗆
Mesotrophic □
Wesouphic L
Oligotrophic ☑
· _
Oligotrophic 🗹

#### 4.4.9 - Features of the surrounding area which may affect the Site

Please describe whether, and if so how, the landscape and ecological characteristics in the area surrounding the Ramsar Site differ from the i) broadly similar O ii) significantly different o site itself:

Surrounding area has greater urbanisation or development 🗹

Surrounding area has higher human population density 🗹

Surrounding area has more intensive agricultural use 🗹

Surrounding area has significantly different land cover or habitat types

Please describe other ways in which the surrounding area is different:

The site is located within the Uholka field division of the Carpathian Biosphere Reserve within the Core (70%) and Buffer zones (30%). 95% of the surface above the cave system is covered with beech forest, where only within the buffer zone is a limited economic management activity, which includes extraction of dead wood for the needs of local population for firewood. The remaining 5% is located on the outskirts of a hamlet of settlement Mala Uholka, where 7 families are living with a total number of 30 people. This area is mainly used for hay mowing. For the site there is no direct impact from the neighbouring settlement.

# 4.5 - Ecosystem services

# 4.5.1 - Ecosystem services/benefits

Provisioning Services

Ecosystem service	Examples	Importance/Extent/Significance
Fresh water	Drinking water for humans and/or livestock	High

Regulating Services

Ecosystem service	Examples	Importance/Extent/Significance
Hazard reduction	Flood control, flood storage	High

# Cultural Services

Ecosystem service	Examples	Importance/Extent/Significance
Spiritual and inspirational	Inspiration	Medium
Scientific and educational	Educational activities and opportunities	High
Scientific and educational	Important knowledge systems, importance for research (scientific reference area or site)	High
Scientific and educational	Long-term monitoring site	High
Scientific and educational	Major scientific study site	High

Supporting Services

Ecosystem service	Examples	Importance/Extent/Significance
Biodiversity	Supports a variety of all life forms including plants, animals and microorganizms, the genes they contain, and the ecosystems of which they form a part	Medium

Have studies or assessments been made of the economic valuation of ecosystem services provided by this Ramsar Site?

i) the site provides a model of wetland wise use, demonstrating the application of traditional knowledge and methods of management and use that maintain the ecological character of the wetland
ii) the site has exceptional cultural traditions or records of former civilizations that have influenced the ecological character of the wetland
iii) the ecological character of the wetland depends on its interaction with local communities or indigenous peoples
iv) relevant non-material values such as sacred sites are present and their existence is strongly linked with the maintenance of the ecological $\hfill\Box$ character of the wetland

<no data available>

# 4.6 - Ecological processes

(ECD) Primary production	No data
(ECD) Nutrient cycling	No data
(ECD) Carbon cycling	No data
(ECD) Animal reproductive productivity	High level
(ECD) Vegetational productivity, pollination, regeneration processes, succession, role of fire, etc.	Non applicable
(ECD) Notable species interactions, including grazing, predation, competition, diseases and pathogens	Non applicable
(ECD) Notable aspects concerning animal and plant dispersal	Refugium habitat
(ECD) Notable aspects concerning migration	Refugium habitat
(ECD) Pressures and trends concerning any of the above, and/or concerning ecosystem integrity	No visible impact, high value of ecosystem integrity

# 5 - How is the Site managed? (Conservation and management)

# 5.1 - Land tenure and responsibilities (Managers)

#### 5.1.1 - Land tenure/ownership

ı ub	lic owners	u III

	Category	Within the Ramsar Site	In the surrounding area
N	ational/Federal government	<b>2</b>	<b>/</b>

#### Private ownership

Category	Within the Ramsar Site	In the surrounding area
Other types of private/individual owner(s)		<b>✓</b>
Cooperative/collective (e.g., farmers cooperative)		<b>/</b>

#### Provide further information on the land tenure / ownership regime (optional):

The Site territory is a part of a core zone within the Carpathian Biosphere Reserve.

It is also the UNESCO World Natural Heritage Property "Primeval Beech Forests of the Carpathians" (2007).

#### 5.1.2 - Management authority

Please list the local office / offices of any agency or organization responsible for	Carpathian Biosphere Reserve
managing the site:	
Provide the name and title of the name or	
Provide the name and title of the person or people with responsibility for the wetland:	Mykola Rybak, director
people with responsibility for the wetland:	
Postal address:	77, Krasne Pleso Str., Rakhiv, Zakarpatska oblast, 90600, Ukraine
E-mail address:	cbr-rakhiv@ukr.net

# 5.2 - Ecological character threats and responses (Management)

# 5.2.1 - Factors (actual or likely) adversely affecting the Site's ecological character

Human settlements (non agricultural)

Housing and urban areas Low impact Low impact	Factors adversely affecting site	Actual threat	Potential threat	Within the site	In the surrounding area
	Housing and urban areas	Low impact	Low impact		<b>₽</b>

#### Human intrusions and disturbance

Factors adversely affecting site	Actual threat	Potential threat	Within the site	In the surrounding area
Recreational and tourism activities	Low impact	Low impact	✓	<b>&gt;</b>

# Pollution

	Factors adversely affecting site	Actual threat	Potential threat	Within the site	In the surrounding area
	Garbage and solid waste	Low impact	Low impact	✓	<b>✓</b>

# Please describe any other threats (optional):

The wetland is located within the Carpathian Biosphere Reserve, which secures limited access and control of the nature resources. Among the basic types of nature use in this area, it is worth mentioning the following ones: forest use, recreation and traditional farming in particular pasturing. The basic threat for the given wetland lies in the fact that it is located at the village periphery. In particular local people sometimes throw garbage and dead domestic animals down into the cave. Despite the wonderful scenery of the site, it is not intensively visited because of its inaccessibility. Recreation pressure – mainly speleologists – is moderate here.

# 5.2.2 - Legal conservation status

Global legal designations

Designation type	Name of area	Online information url	Overlap with Ramsar Site
Other global designation	the UNESCO World Natural Heritage Property "Primeval Beech Forests of the Carpathians"	http://whc.unesco.org/en/list/1 133/multiple=1&unique_number=1777	
UNESCO Biosphere Reserve	Carpathian Biosphere Reserve	http://www.unesco.org/mabdb/br/b rdir/directory/biores.asp?code=U KR+03&mode=all	whole

National legal designations

Designation type	Name of area	Online information url	Overlap with Ramsar Site
Biosphere Reserve	Carpathian	http://cbr.nature.org.ua/main.ht m	whole

#### 5.2.3 - IUCN protected areas categories (2008)

la Strict Nature Reserve 🗹
Milderness Area: protected area managed mainly for wilderness protection
II National Park: protected area managed mainly for ecosystem protection and recreation
ural Monument: protected area managed mainly for conservation of specific natural features
oitat/Species Management Area: protected area managed mainly for conservation through management intervention
ected Landscape/Seascape: protected area managed mainly for landscape/seascape conservation and recreation
aged Resource Protected Area: protected area managed mainly for the sustainable use of natural ecosystems

#### 5.2.4 - Key conservation measures

#### Legal protection

	01.1
Measures	Status
Legal protection	Implemented

#### Habitat

Measures	Status	
Land conversion controls	Implemented	

#### Species

Measures	Status
Threatened/rare species	Partially implemented
management programmes	r areany implemented

#### Human Activities

Measures	Status
Regulation/management of recreational activities	Implemented
Communication, education, and participation and awareness activities	Implemented
Research	Implemented

#### Other:

Site is managed by the Carpathian Biosphere Reserve.

The Site belongs to the core and buffer zones of the Carpathian Biosphere Reserve, and corresponds to Category la IUCN (strictly protected area set aside to protect biodiversity and also geological/geomorphical features, where human visitation, use and impacts are strictly controlled and limited to ensure protection of the conservation values) and II IUCN (strictly limited use of natural resources). Scientists of the Carpathian Biosphere Reserve pay much attention to elaboration of ecological principles of natural ecosystems' conservation and their management. The Carpathian Biosphere Reserve is a member of the World Network of UNESCO Biosphere Reserves since 1993.

The Site also lies within the UNESCO World Natural Heritage Property Site "Ancient and Primeval Beech Forests of the Carpathians and Other Regions of Europe" (2017).

The Project of Territory organization (Management Plan) for the Carpathian Biosphere Reserve has been implemented.

# 5.2.5 - Management planning

Is there a site-specific management plan for the site? No

Has a management effectiveness assessment been undertaken for the site? Yes O No •

If the site is a formal transboundary site as indicated in section Data and location > Site location, are there shared management planning Yes O No opposesses with another Contracting Party?

#### 5.2.6 - Planning for restoration

Is there a site-specific restoration plan? No need identified

Monitoring	Status
Animal species (please specify)	Implemented

Ecological, biological and geographic studies are conducted by Carpathian Biosphere Reserve's scientists, scientists of the Uzhgorod National University, Institute of Ecology of the Carpathians National Academy of Sciences of Ukraine and State Museum of Natural History. An annual monitoring of overwintering Chiropteran fauna has been held for over 20 years already.

# 6 - Additional material

# 6.1 - Additional reports and documents

#### 6.1.1 - Bibliographical references

Kruhlov I. 2008. Delimitatsiya, metryzatsiya ta klasyfikatsiya morfogennykh ekoregioniv Ukrayinskykh Karpat. Ukrayinskyy Geografichnyy Zhurnal 3: 59-68. (In Ukrainian.)

Postawa T., Pokynchereda V., Zagorodniuk I. Summer bat fauna of the Carpathian Biosphere Reserve (the Mala and Velyka Ugolka Valleys) // Studia Chiropterologica. – 2000. – V. 1. – P. 73-82.

Scherbak N.N.. Zoogeograficheskoje delenie Ukrainskoi SSR // Vestnik Zoologii. – 1988. - № 3. – C. 22-31 (in Russian).

Ukrainskie Karpaty. Priroda / Golubets M.A., Gavrusevich A.H., Sagaikevich I.K. and others. -Kiev: Naukova Dumka, 1988. – 208 p. (in Russian).

Vargovich R. S. Hibernation of bats in Transcarpathian (West Ukraine) caves amd adits 1988-1998 // Fauna jaskyn. (Mock A., Kovac L., Fulin M. (eds.). – Kosice, 2000. – 185-197.

Red Data Book of Ukraine. Fauna / edited by I.A. Akimov. – K.: Hlobalkonsaltynh, 2009. – 600 p. [ln Ukrainian]

#### 6.1.2 - Additional reports and documents

i. taxonomic lists of plant and animal species occurring in the site (see section 4.3)

<no file available>

ii. a detailed Ecological Character Description (ECD) (in a national format)

<no file available>

iii. a description of the site in a national or regional wetland inventory

<no file available>

iv. relevant Article 3.2 reports

<no file available>

v. site management plan

<no file available>

vi. other published literature

<no file available>

<no data available>

# 6.1.3 - Photograph(s) of the Site

Please provide at least one photograph of the site:



Friendship Cave ( Vasyl Zelenskyi, 08-02-2015 )



Friendship Cave ( Vasyl Zelenskyi, 08-02-2015 )



Friendship Cave ( Vasyl



Friendship Cave ( Vasyl



Friendship Cave (Vasyl Zelenskyi, 09-10-2013)

# 6.1.4 - Designation letter and related data

## Designation letter

<2 file(s) uploaded>

Date of Designation 2019-03-20