NATURA 2000 - STANDARD DATA FORM

For Special Protection Areas (SPA),
Proposed Sites for Community Importance (pSCI),
Sites of Community Importance (SCI) and
for Special Areas of Conservation (SAC)

SITE	**BG0000366**
SITENAME	**Kresna - Ilindentsi**

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1. SITE IDENTIFICATION

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1.1 Type	1.2 Site code
B	BG0000366

1.3 Site name

Kresna - Ilindentsi

1.4 First Compilation date	1.5 Update date
2006-03	2018-12

1.6 Respondent:

Name/Organisation:	Ministry of Environment and Water, “National Nature Protection Service” Directorate
Address:	Sofia Kn. Maria Luiza Blvd. 22 1000 Sofia
Email:	natura2000@moew.government.bg

1.7 Site indication and designation / classification dates

Date site classified as SPA:	0000-00
National legal reference of SPA designation	No data

Date site proposed as SCI:	2007-03
Date site confirmed as SCI:	2008-12
Date site designated as SAC:	No data

National legal reference of SAC designation:	No data

Explanation(s):	Adopted by Council of Ministers Decision No. 122/02.03.2007 (promulgated SG 21/2007). Extended by Council of Ministers Decision No. 811/16.11.2010 (promulgated SG 96/2010).

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2. SITE LOCATION

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2.1 Site-centre location [decimal degrees]:

Longitude	Latitude
23.1647	41.7553

2.2 Area [ha]:

48596.428

2.3 Marine area [%]

0.0

2.4 Sitelength [km]:

0.0

2.5 Administrative region code and name

NUTS level 2 code	Region Name
BG41	Югозападен / Yugozapaden

2.6 Biogeographical Region(s)

Alpine (19.2 %)

Continental (80.8 %)

3. ECOLOGICAL INFORMATION

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3.1 Habitat types present on the site and assessment for them

Annex I Habitat types						Site assessment			
Code	PF	NP	Cover [ha]	Cave [number]	Data quality	A|B|C|D	A|B|C		
						Representativity	Relative Surface	Conservation	Global
4060			205.92		M	C	C	C	C
4070			12.55		M	C	C	C	C
5210			57.9		M	A	C	A	A
6110			0.3		G	D			
6210			2599.16		M	A	B	B	A
6220			2210.04		M	A	B	B	B
6230			76.53		M	C	C	C	C
62A0			15.02		M	A	C	A	A
62D0			419.15		M	C	C	B	C
6420			1.71		M	D			
6430			18.16		G	A	C	B	B
6510			14.24		G	C	C	B	C
6520			1269.69		M	A	B	B	A
8110			26.44		M	C	C	B	C

8210			24.35		M	A	C	A	A
8220			51.16		M	A	C	A	A
8230			52.69		M	A	C	A	A
8310				28	G	B	C	B	B
9110			1696.52		M	B	A	B	A
9130			4631.11		M	A	B	B	A
9150			146.42		M	C	C	B	C
9170			3171.93		M	A	C	B	B
9180			3.18		G	C	C	B	C
91AA			3692.75		M	B	B	C	C
91BA			165.1		M	A	C	B	A
91CA			3656.56		M	A	B	B	A
91E0			89.95		G	A	C	B	A
91M0			1161.65		M	A	C	A	A
91Z0			21.21		M	A	C	A	A
9260			5.11		M	C	C	B	C
92A0			43.32		G	C	B	C	C
92C0			78.51		M	A	A	B	A
92D0			2.44		G	B	C	B	B
9410			7.85		G	B	C	A	B
9530			1625.45		M	A	B	A	A
9560			1132.59		M	A	A	B	A
95A0			538.64		M	A	B	A	A

PF: for the habitat types that can have a non-priority as well as a priority form (6210, 7130, 9430) enter "X" in the column PF to indicate the priority form.

NP: in case that a habitat type no longer exists in the site enter: x (optional)

Cover: decimal values can be entered

Caves: for habitat types 8310, 8330 (caves) enter the number of caves if estimated surface is not available.

Data quality: G = 'Good' (e.g. based on surveys); M = 'Moderate' (e.g. based on partial data with some extrapolation); P = 'Poor' (e.g. rough estimation)

3.2 Species referred to in Article 4 of Directive 2009/147/EC and listed in Annex II of Directive 92/43/EEC and site evaluation for them

Species					Population in the site						Site assessment			
G	Code	Scientific Name	S	NP	T	Size		Unit	Cat.	D.qual.	A|B|C|D	A|B|C		
						Min	Max				Pop.	Con.	Iso.	Glo.
F	1130	Aspius aspius			p	69540	69540	area	P	P	C	A	B	A
I	1093	Austropotamobius torrentium			p	15469	15469	i	C	M	B	A	C	A
M	1308	Barbastella barbastellus			p	219	363	i		M	C	B	C	C
F	5088	Barbus cyclolepis			p				C	DD	B	A	C	A
A	1193	Bombina variegata			p	23	23	localities	C	G	C	A	C	A
M	1352	Canis lupus			p	12	14	i		G	C	A	C	A
		Centaurea												

P	4080	immanuelis-loewii			p	600	700	i	R	M	B	A	B	A
I	1088	Cerambyx cerdo			p				R	DD	C	A	C	B
F	1149	Cobitis taenia			p	16530	16530	i	C	G	C	B	A	B
I	4046	Cordulegaster heros			p	2	2	localities	R	G	C	A	C	A
I	1086	Cucujus cinnaberinus			p				V	DD	C	A	C	B
R	1279	Elaphe quatuorlineata			p	9	9	localities	R	M	A	A	B	A
R	1293	Elaphe situla			p	1	1	localities	V	P	B	A	B	A
R	1220	Emys orbicularis			p			localities	P	DD	C	A	C	B
I	4033	Erannis ankeraria			p				P	DD	A	B	B	B
I	1074	Eriogaster catax			p	4	37	i	V	P	B	B	C	B
I	6199	Euplagia quadripunctaria			p	10197	17092	i	R	P	C	B	C	B
I	1083	Lucanus cervus			p	48693	95787	i	R	M	C	A	C	B
M	1355	Lutra lutra			p	7	15	i	P	G	C	B	C	B
I	1060	Lycaena dispar			p				R	DD	C	A	B	B
M	2609	Mesocricetus newtoni			p				P	DD	D			
M	1310	Miniopterus schreibersii			p	51	100	i	R	G	C	B	C	C
I	1089	Morimus funereus			p	148085	172006	i	R	M	C	A	C	B
M	1323	Myotis bechsteinii			p	101	201	i		M	C	B	C	C
M	1307	Myotis blythii			p	251	500	i	C	M	C	B	C	B
M	1316	Myotis capaccinii			p				P	DD	D			
M	1321	Myotis emarginatus			r	1200	1700	i		G	B	A	C	B
M	1324	Myotis myotis			p	251	500	i	C	M	C	B	C	B
I	1037	Ophiogomphus cecilia			p	2	2	localities	R	G	C	A	C	A
I	4053	Paracaloptenus caloptenoides			p				R	DD	C	B	C	B
I	4042	Polyommatus eroides			p				P	DD	C	C	C	C
I	4022	Probaticus subrugosus			p				V	DD	A	B	C	B
M	1305	Rhinolophus euryale			p	101	250	i		G	C	B	C	C
M	1304	Rhinolophus ferrumequinum			r	1000	1500	i	C	G	B	B	C	B
M	1304	Rhinolophus ferrumequinum			w	101	250	i		G	C	B	C	C
M	1303	Rhinolophus hipposideros			r	51	100	i		G	C	B	C	C
F	5339	Rhodeus amarus			p	4813197	4813197	i	C	G	C	A	C	B
I	1087	Rosalia alpina			p	47874	87186	i	R	M	C	A	C	B
R	1219	Testudo graeca			p	23	23	localities	C	G	C	A	C	A
R	1217	Testudo hermanni			p	25	25	localities	C	G	C	A	C	A
A	1171	Triturus karelinii			p	5	5	localities	R	M	C	A	C	B
I	1032	Unio crassus			p	23409	23409	i	R	M	C	A	C	A
M	1354	Ursus arctos			p	2	3	i		G	C	A	C	B
		Vormela												

M	2635	peregusna			p				P	DD	C	B	C	B

Group: A = Amphibians, B = Birds, F = Fish, I = Invertebrates, M = Mammals, P = Plants, R = Reptiles

S: in case that the data on species are sensitive and therefore have to be blocked for any public access enter: yes

NP: in case that a species is no longer present in the site enter: x (optional)

Type: p = permanent, r = reproducing, c = concentration, w = wintering (for plant and non-migratory species use permanent)

Unit: i = individuals, p = pairs or other units according to the Standard list of population units and codes in accordance with Article 12 and 17 reporting (see reference portal)

Abundance categories (Cat.): C = common, R = rare, V = very rare, P = present - to fill if data are deficient (DD) or in addition to population size information

Data quality: G = 'Good' (e.g. based on surveys); M = 'Moderate' (e.g. based on partial data with some extrapolation); P = 'Poor' (e.g. rough estimation); VP = 'Very poor' (use this category only, if not even a rough estimation of the population size can be made, in this case the fields for population size can remain empty, but the field "Abundance categories" has to be filled in)

3.3 Other important species of flora and fauna (optional)

Species					Population in the site				Motivation					
Group	CODE	Scientific Name	S	NP	Size		Unit	Cat.	Species Annex		Other categories			
					Min	Max		C|R|V|P	IV	V	A	B	C	D
F		Alburnoides bipunctatus						C					X	
F		Alburnus alburnus						R						X
I		Apatura metis						C					X	
A		Bufo viridis						C					X	
F		Chondrostoma vardarense						C				X		
R		Coluber caspius						P					X	
R		Coronella austriaca						P					X	
R		Elaphe longissima						P			X			
I		Erebia medusa						C						X
I		Glaucopsyche alexis						C						X
F		Gobio gobio						C						X
I		Hipparchia senthes						C						X
A		Hyla arborea						C					X	
I		Isophya andreevae						R			X			
R		Lacerta trilineata						C					X	
R		Lacerta viridis						C					X	
F		Leuciscus cephalus						C						X
I		Limenitis populi						P						X
I		Lycaena ottomana						C						X
I		Maculinea arion						C					X	
I		Mantispa perla						V			X			
I		Melitaea trivia						C					X	

R		Natrix tessellata						P					X	
I		Neptis rivularis						P						X
I		Nymphalis xanthomelas						P						X
F		Oxynoemacheilus bureschi						C				X		
I		Parnassius apollo						P						X
I		Parnassius mnemosyne						C					X	
I		Pieris ergane						C						X
R		Podarcis erhardii						C					X	
R		Podarcis muralis						C					X	
R		Podarcis taurica						C					X	
I		Pseudophilotes vicrama						C						X
I		Pyrgus cinarae						C						X
A		Rana dalmatina						C					X	
F		Salmo macedonicus						R				X		
I		Scolitantides orion						C					X	
I		Thymelicus acteon						C						X
F		Vimba melanops						V				X		
R		Vipera ammodytes						P					X	
I		Zerynthia polyxena						C						X

Group: A = Amphibians, B = Birds, F = Fish, Fu = Fungi, I = Invertebrates, L = Lichens, M = Mammals, P = Plants, R = Reptiles

CODE: for Birds, Annex IV and V species the code as provided in the reference portal should be used in addition to the scientific name

S: in case that the data on species are sensitive and therefore have to be blocked for any public access enter: yes

NP: in case that a species is no longer present in the site enter: x (optional)

Unit: i = individuals, p = pairs or other units according to the standard list of population units and codes in accordance with Article 12 and 17 reporting, (see reference portal)

Cat.: Abundance categories: C = common, R = rare, V = very rare, P = present

Motivation categories: IV, V: Annex Species (Habitats Directive), **A:** National Red List data; **B:** Endemics; **C:** International Conventions; **D:** other reasons

4. SITE DESCRIPTION

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4.1 General site character

Habitat class	% Cover
N20	22.0
N16	23.0
N09	3.0
N21	1.0
N17	4.0
N23	1.0
N19	2.0

N08	22.0
N10	1.0
N06	14.0
N15	2.0
N12	5.0
Total Habitat Cover	100

Other Site Characteristics

The site has several separate cores connected by river valleys in a single site. The site is like a buffer zone to the west of Pirin National Park, it also includes the highest parts of Maleshevska and Vlahina Mountains towards the border with Macedonia, and between them the deep Kresna Gorge of the Struma River. Unique biodiversity is concentrated in the site. Here the Rhodope Mountains has the best ecological connection with the mountains on the border between Bulgaria and Macedonia. Simultaneously, the Struma River is biocorridor for the migration of species in south and north direction. Steep mountain slopes are a strong barrier for these migrations, and in the region of Kresna gorge a unique and highly vulnerable bottleneck biocorridor is formed. The area includes natural and semi-natural ecosystems of sub-alpine level in Pirin as well as areas with vegetation typical of the continental sub-Mediterranean and in the south of the meso-Mediterranean climate (according to Rivas - Martinez). There is exceptional in Europe climate gradation from north to south: for about 20 km in the valley the average annual temperature varies with 1 degree. There are representatives of preglacial Mediterranean vegetation and fauna in the site, as well as relict glacial species in the higher parts. The site includes the northern boundary of distribution of many species and mediteranean communities, including communities of Platanus orientalis, Querqus coccifera, Phyllirea media, Juniperus excelsa. Some areas of forest monocultures are excluded from the site."Zandana" (N 41? 39 02.2 E 23? 15 15.6 WGS 84, alt. 490 m) is a complex of 3 caves situated between the villages of Ploski and Ilindentsi. Breeding colonies of horseshoe bats and migratory groups/colonies of other bat species were observed in these caves. Other species of bats are known to live in rock fissures.

4.2 Quality and importance

The rivers of the pSCI are preserved in their natural or semi-natural condition. They are following their natural riverbeds and the territories of their riparian terraces are slightly fragmented. The riparian forests of Alnus glutinosa and Salix sp. (Priority Habitat 91E0) and riparian forest of Platanus orientalis (92C0) forms one of the most qualiatative riparian galleries in the country. The ichtiofauna is distinguishly rich and divers (important food resource for the otter's stable population) There are 12 inhabitant fish species, 3 of which are included in Annex II of Directive 92/43/EEC and 10 species of herpethofauna, 3 of which in Annex II of the same Directive. This makes pSCI "Kresna-Ilindentzi" one of the most valuable for protection of ihtiofauna, herpethofauna and natural habitats. The natural river system of the mountain is of great importance for the fish migration. ?? Majority of the horseshoe bats, which are living in the southern parts of the Struma River Valley are hibernating in the cave.

4.3 Threats, pressures and activities with impacts on the site

The most important impacts and activities with high effect on the site

Negative Impacts			
Rank	Threats and pressures [code]	Pollution (optional) [code]	inside/outside [i|o|b]
H	B03		i
H	J02.03		i
M	E01		i
M	J01		i
H	E03		o
H	F03.01		i
M	D05		i
L	A08		i
M	B02.03		i
H	J02.05		i
M	E03.03		i
M	F02.03		i
H	D01.02		i
H	F03.02.01		i
L	G02.02		i

Positive Impacts			
Rank	Activities, management [code]	Pollution (optional) [code]	inside/outside [i|o|b]
M	A04		i
M	A04		o
L	D02.01		o
M	F02.03		i

M	B02.02		i
H	C01.01		i
H	A04.03		i
M	A04		o
H	B02.01		i
M	E03.01		i
H	C01.04.01		i
M	C01.04.01		o
M	E02		i
H	F03.02.03		i
M	A04		i
H	B		i
L	H07		i
L	A07		i
L	G01.04		i
L	F04		i
H	J02		i
M	B02.04		i
M	C01.04		i
L	F03.02		i
M	A02		i
M	D02.01		i
H	B01.02		i
L	D02.01		o
M	G01.03		i
L	E01.03		i
M	J01		o

Rank: H = high, M = medium, L = low
Pollution: N = Nitrogen input, P = Phosphor/Phosphate input, A = Acid input/acidification,
T = toxic inorganic chemicals, O = toxic organic chemicals, X = Mixed pollutions
i = inside, o = outside, b = both

4.4 Ownership (optional)

4.5 Documentation

Initial proposal and description of the site made by Balkani Wildlife Society / office@balkani.org; Centre for Environmental Information and Education / ceie@ceie.org; St. Beshkov, B. Petrov - National Museum of Natural History, Sofia /boyanpp@nmnh.bas.bg .Data revised by a team of Bulgarian Academy of Sciences (http://www.bas.bg).Data revised by a team of the Institute for Biodiversity and Ecosystem Research, Bulgarian Academy of Sciences. New data provided by project "Mapping and assessment of the conservation status of the natural habitats and species - Phase 1" (see link).

Link(s): http://natura2000.moew.government.bg/Home/ProtectedSite?code=BG0000366&siteType=HabitatDirective

5. SITE PROTECTION STATUS (optional)

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5.1 Designation types at national and regional level:

Code	Cover [%]
BG06	0.809
BG00	97.5727

Code	Cover [%]
BG03	0.1387

Code	Cover [%]
BG01	1.4796

5.2 Relation of the described site with other sites:

designated at national or regional level:

Type code	Site name	Type	Cover [%]
BG06	Buina	+	0.1
BG06	Moravska	+	0.43
BG06	Estestveno nahodishte na chinar	+	0.116
BG06	Kuchkarnika	+	0.163
BG01	Tisata	+	1.4796
BG03	Momina skala	+	0.1387

5.3 Site designation (optional)

6. SITE MANAGEMENT

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6.1 Body(ies) responsible for the site management:

Organisation:	Regional Inspectorate of Environment and Water: Blagoevgrad
Address:	
Email:	

6.2 Management Plan(s):

An actual management plan does exist:

- [ ] Yes
- [ ] No, but in preparation
- [x] No

6.3 Conservation measures (optional)

7. MAP OF THE SITES

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INSPIRE ID:

Map delivered as PDF in electronic format (optional)

- [ ] Yes
- [x] No

Reference(s) to the original map used for the digitalisation of the electronic boundaries (optional).