

RAMSAR CONVENTION BUREAU
Rue Mauvenery 28
CH-1196 GLAND
SWITZERLAND

Subject: **THE NOMINATION OF THE "KOVILJSKO-PETROVARADINSKI RIT"
AREA FOR A RAMSAR SITE**

APPENDIX I

**THE REVIEW OF IMPORTANT BIRD SPECIES
OF KOVILJSKO–PETROVARADINSKI RIT**

The review includes species of waterbirds from the following families: Podicipedidae, Ardeidae, Threskiornithidae, Ciconidae, Anatidae, Accipitridae.

The meaning of the symbols:

The data on bird population size in the area:

- I - number of nesting pairs
- II - number of individuals during wintering/migration

In the included table that contains data on birds (Appendix I), the maximum number of birds recorded in one day during the recent period (1999-2009) is given for each species. The maximum number of individuals during the migration and wintering is presented as the number of recorded individuals, while the number of nesting birds is estimated as the number of pairs. The total number of specimens that visited this area during the entire period of migration or wintering is manifold larger, but this number is not presented in the table due to the insufficiently accurate field data.

Species	I	II	1% level
<i>Phalacrocorax carbo</i>	60-100		4,000
<i>Phalacrocorax pygmeus</i>	-		700
<i>Nycticorax nycticorax</i>	50-70	800	1,200
<i>Ardeola ralloides</i>		50	600
<i>Egretta garzetta</i>	20-40	250	580
<i>Casmerodius albus</i>	20-30	150	470
<i>Ardea cinerea</i>	100-150		2,200
<i>Ardea purpurea</i>	15-25		2,200
<i>Ciconia nigra</i>	7-10	250	250
<i>Ciconia ciconia</i>	25-30*	100	4,000
<i>Platalea leucorodia</i>	20	72	120
<i>Cygnus olor</i>	7-10		450
<i>Aythya nyroca</i>	3-6	15	450
<i>Milvus migrans</i>	3-5		
<i>Haliaeetus albicilla</i>	5-6		
<i>Circus aeruginosus</i>	1-2		

APPENDIX II

SYNTAXONOMIC REVIEW OF PLANT COMMUNITIES OF KOVILJSKO–PETROVARADINSKI RIT

- I Class: *LEMNETEA MINORIS* Koch et Tx. 1955
Order: *Lemnetalia minoris* Koch et Tx. 1955
Alliance: *Lemnion minoris* Koch et Tx. ex Oberd. 1957
Ass.-gr.: *Spirodeletum polyrrhizae* Koch 1954
Ass: *Lemno minoris-Spirodeletum polyrrhizae* Koch 1954
Ass.-gr.: *Lemnetum gibbae* Miyewaki et J.Tx 1960
Ass: *Lemnetum minori - gibbae* (Miyawaki et J.Tx.1960) Pass. 1966
Alliance: *Lemnion tirsulcae* Den hartog et Segal 1964
Suball.: *Lemno – Riccienion* Pass. 1996
Ass.-gr.: *Riccietum fluitantis* Slavnić 1956
Ass.: *Lemno minoris - Riccietum fluitantis* (Slavnić 1956) Pass 1996
Alliance: *Lemno-Salvinion* Slavnić 1965 em. Schwabe-B. Et Tx 1981
Suball.: *Lemno – Salvinion* Typicum
Ass.-gr.: *Salvinietum natantis* Koch 1954
Ass: *Salvinio-Spirodeletum polyrrhizae* Slavnić 1956
Suball. *Lemno – Azollenion* Pass. 1996
Ass.-gr.: *Azolletum filiculoides* Br. Bl. 1952
Ass: *Lemno minoris-Azolletum filiculoides* Br.-Bl. 1952.
- II Class: *UTRICULARIETEA INTERMEDIO – MINORIS* Den Hartog et Segal 1964 em
Pietsch 1965
Order: *Lemno – Utricularietalia vulgaris* Pass. 1978
Alliance: *Utricularion vulgaris* pass. 1964
Ass.-gr.: *Utricularietum vulgaris* (Soó 1928) Pass. 1962
Ass: *Lemno-Utricularietum vulgaris* Soó (1928) ex. Pass 1964
- III Class: *CERATOPHYLLETEA* Den Hartog et Segal 1964
Order: *Ceratophylletalia* Den Hartog et Segal 1964
Alliance: *Ceratophyllion demersi* Den Hartog et Segal 1964
Suball.: *Ceratophyllion demersi* Pass. 1996
Ass: *Potamogetono - Ceratophylletum demersi* (Hild et Rehnelt 1965) Pass
1995
- IV Class: *RUPPIETALIA* J. Tx. 1960
Order: *Ruppietalia maritimae* J.Tx. 1960
Alliance: *Ruppion maritimae* Br.-Bl.1931
Ass: *Najado-Potametum acutifolii* Slavnić 1956
- V Class: *POTAMOGETONETEA* Klika ap. Nowak et Klika 1941
Order: *Potamogetonetalia* Koch 1926
Alliance: *Potamion eurosibiricum* W.Koch 1926
Ass.: *Elodeetum canadensis* Eggler 1933
Alliance: *Magnopotamogetonion lucentis* (Vollmar 1947) Den Hartog et Segal
1964
Ass: *Myriophyllo-Potametum* Soó 1934
Subass.: *potametosum acuminati* Slavnić 1956
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- Subass.: *potametosum crispum* Soó 1927
Ass.: *Potametum lucentis* Hueck. 1931
Alliance: *Ranunculion aquatilis* Pass. 1964
Ass.: *Ranunculetum trichophylli* Soó 1949
Ass.-gr.: *Hottonietum palustris* Tx. 1937
Ass.: *Hottonietum palustris* Tx. 1937 ex Roll 1940
- VI Class: *NYMPHAEETEA* Klika 1944 em. Pass. 1962
Order: *Nymphoaeetalia albo – tetragonae* Pass. 1962
Alliance: *Nymphoidion peltatae* Pass. 1992
Ass.-gr.: *Nymphoidetum peltatae* (Allorge 1922) Bellot 1951
Ass. *Hydrochari-Nymphoidetum peltatae* Slavnić 1956
Ass.-gr.: *Trapetum natantis* Müller et Görs (1969) 1962
Ass.: *Ceratophyllo – Trapaetum natantis* Müller et Görs (1962) ex Pass. 1992
Alliance.: *Nymphaeion albae* Oberd. 1957
Ass: *Nymphao – Numpharetum luteae* Nowinsk i1928
- VII Class: *PHRAGMITETEA* Tx.et Prsg 1942
Order: *Phragmitetalia* Koch 1926
Alliance: *Phragmition* Koch 1926
Ass: *Scirpetum lacustris* Schmale 1939
Subass: *chrysanthemetosum uliginosi* Slavnić 1956
Ass.: *Typhetosum angustifoliae* Pign 1953
Ass.: *Typhetosum latifoliae* G. Lang 1973
Ass: *Glycerietum maximae* Hueck 1931
Ass: *Acoro-Glycerietum aquaticae* Slavnić 1956
Ass.: *Phragmitetum communis* Schmale 1939
Alliance: *Magnocaricion* Koch.. 1926
Ass: *Caricetum elatae* Koch. 1926.
Ass: *Caricetum gracilis* R. Tx. 1937
- VIII Class: *ISOETO – NANOJUNCETEA* Br.-Bl.et Tx.1943
Order: *Nanocyperetalia* Klika 1935
Alliance: *Nanocyperion flavescens* Koch 1926
Ass: *Dichostylidi-Gnaphalietum uliginosi* (Horvatić 1931) Soó et Timar 1947.
(syn:*Dychostileto-Gnaphalietum uliginosi* Babić 1971)
Ass: *Marsilio-Heleocharietum palustris* Babić 1971
Subass: *butomatosum* Babić 1971
Subass: *cyperetosum fuscae* Babić 1971
Ass: *Heleocharietum acicularis* Babić 1971
- XI Class: *MOLINIO- ARRHENANTHERETEA* Tx.1937 p.p., Br.-Bl.et Tx 1943 p.p.
Order: *Agrostietalia stoloniferae* Oberd. 1967
Alliance: *Agropyro-Rumicion crispum* Nordh. 1940
Ass: *Agropyro-Poaetum angustifoliae* Babić 1971
Subass: *poaetosum palustris* Babić 1971
Subass: *trifolietosum repentis* Babić 1971
Order: *Molinietalia* W. Koch 1926
Alliance: *Molinion caeruleae* W. Koch 1926
Ass: *Carex gracilis - Poa palustris* Ilijanić 1968
Subass: *valerietosum* Čapaković 1979
Subass: *clematetosum* Čapaković 1979
Order: *Deschampsietalia* Horvatić (1956) 1968
Alliance: *Deschampsion caespitosae* Horvatić 1930
Ass: *Deschampsietum caespitosae* Horvatić 1930
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- X Class: *BIDENTETEA TRIPARTITI* Tx., Lohm. et Prsg. 1950
Order: *Bidentetalia tripartiti* Br.-Bl.1951
Alliance: *Bidention tripartiti* Nordhg. 1940
Ass: *Agrostio-Polygonetum hydropiperi* Babić 1971
Subass: *menthetosum aquaticae* Babić 1971
Subass: *typicum* Babić, 1971
Ass: *Bidenteto-Potentilletum anserinae* Babić 1971
Subass: *caricetosum hirtae* Babić 1971
Subass: *cynodontetosum* Babić 1971
- XI Class: *SECALIETEA* Br.-Bl.1931 emend. 1951 (syn: *Polygono-Chenopodio* Koch 1926)
Order: *Eragrostietalia* J.Tx.1961 emend Soó 1961 (syn.*Eragrostidion* Th. ex Slavnić 1944, 1950)
Alliance: *Consolido-Eragrostion pooidis* Soó et Timar 1957.
Ass: *Cynodonto-Erodietum cicutariae* Babić 1972
- XII Class: *EPILOBIETEA ANGUSTIFOLII* Tx. et Prsg. 1950
Order: *Chamaeneretalia ili Epilobietalia angustifolii* (Vlieger 1937) Tx. 1950 corr. Soó 1961
Alliance: *Atropion bella-donnae* Br.-Bl.1930 emend.Oberd. 1957
Ass: *Oenothera-Reseda luteola* Slavnić 1951 (ap.Babić 1972)
- XIII Class: *SALICETEA PURPUREAE* Moor (1058)1960
Order: *Salicetalia purpureae* Moor (1958)1960
Alliance: *Salicion triandrae* Malcuit 1929, Muller et Gors 1958 (Non br.-Bl.1956)
Ass: *Salicetum triandrae* Malcuit 1929
Alliance: *Salicion albae* Soó (1930)1940
Ass: *Salicetum albae pannonicum* Parabućski(1965)1972
Subass: *caricetosum elatae* Parabućski (1965)1972
Subass: *typicum*
Subass: *rubetosum*
Ass: *Salici-Populetum nigrae* Parabućski (1965)1972
Subass: *poetosum*
Subass: *aristolochietosum*
- XVI Class: *QUERCO - FAGETEA* Br.-Bl. et Ulieg 1937
Order: *Populetalia albae* Br.-Bl. 1931
Alliance: *Alno-Quercion roboris* Horbat 1938
Ass: *Crataego nigrae-Populetum albae* Parabućski (1965)1972
Subass: *typicum* Parabućski (1965)1972
Subass: *Quercetosum* Parabućski (1965)1972
Ass: *Ulmetum campestre* Parabućski (1965)1972
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APPENDIX III

**SPECIFIC HABITAT TYPES (EMERALD CLASSIFICATION)
OF KOVILJSKO–PETROVARADINSKI RIT**

Code	Name
22.	STANDING FRESH WATER
22.1	Permanent ponds and lakes
22.13	Eutrophic waterbodies
22.4	Euhydrophyte communities
22.41	Free-floating vegetation
22.411	Duckweed covers <Lemna>, <Spirodella>, <Wolffia>
22.412	<Hydrocharis morsus-ranae> frogbit rafts
22.414	<Utricularia> spp. bladderwort colonies
22.415	<Salvinia> covers
22.42	Rooted submerged vegetation
22.421	Large pondweed beds <Potamogeton>
22.43	Rooted floating vegetation
22.431	Floating broad-leaved carpets
22.43111	<Nuphar> beds
22.43112	Northern <Nymphaea> beds
22.4312	Water chestnut carpets <Trapa>
22.4313	<Nymphoides peltata> fringed waterlily carpets
22.432	Shallow-water floating communities
22.4321	Water crowfoot communities <Ranunculus sect. Bratrachium>
22.44	Chandelier algae submerged carpets
22.441	<Chara> carpets
24.	RUNNING WATER
24.1	Rivers and streams
24.3	River sand banks
24.31	Unvegetated river sand banks
24.32	Vegetated river sand banks
37.	HUMID GRASSLAND AND TALL HERB COMMUNITIES
37.2	Eutrophic humid grasslands
37.26	Continental humid meadows
37.263	Danubio-Pannonic riverine and humid meadows

Code	Name
4.	FORESTS
44.	TEMPERATE RIVERINE AND SWAMP FORESTS AND BRUSH
44.1	Riparian willow formations
44.121	Almond willow-osier scrub <Salix triandra> and <Salix viminalis>
44.13	Middle European white willow forests
53.	WATER-FRINGE VEGETATION
53.1	Reed beds
53.11	Common reed beds <Phragmites australis>
53.1111	Freshwater <Phragmites> beds
53.12	<Scirpus lacustris> common clubrush beds
53.131	<Thypha latifolia> great reedmace beds
53.132	<Thypha angustifolia> lesser reedmace beds
53.146	<Oenanthe aquatica>-<Rorripa amphibia> water dropwort-great yellowcress communities
53.2	Large sedge communities
53.21	Large <Carex> spp. beds
53.214	<Carex rostrata> and <Carex vesicaria> bottle and bladder sedge beds
8.	AGRICULTURAL LAND AND ARTIFICIAL LANDSCAPES
83.	ORCHARDS, GROVES AND TREE PLANTATIONS
83.3	Plantations
83.321	Poplar plantations
84.1	Tree lines
86.	TOWNS, VILLAGES, INDUSTRIAL SITES
86.1	Towns
86.13	Town features