



COLCHIC RAINFORESTS AND WETLANDS

NOMINATION FOR INSCRIPTION ON THE WORLD
HERITAGE LIST UNDER WORLD HERITAGE
CRITERIA IX AND X

VOLUME 2: APPENDIXES



This Volume 2 contains supplementary information to the main nomination dossier of the Colchic Rainforests and Wetlands, as submitted by the State Party of Georgia for the 2019/2020 nomination cycle.

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Appendix 1: Maps of the nominated component areas, scale 1:50,000

The table below lists the maps of the Colchic Rainforests and Wetlands which are enclosed with this nomination as separate, large format printouts.

Title of map	Scale	Location
Map 1a. Map of the Mtirala-Kintrishi nominated component area and its buffer zone (No. 1).	1:50,000	Separately enclosed
Map 1b. Map of the Mtirala-Kintrishi nominated component area and its buffer zone (No. 1) <i>shown by separate lines to aide clarity in some areas.</i>	1: 50,000	
Map 2. Map of the Ispani nominated component area and its buffer zone (No. 2).	1:50,000	
Map 3. Map of the Grigoleti nominated component area and its buffer zone (No. 3).	1:50,000	
Map 4. Map of the Imnati and Pitshora nominated component areas and their buffer zones (No. 4 and 5).	1:50,000	
Map 5. Map of the Nabada and Churia nominated component areas and their buffer zones (No. 6 and 7).	1:50,000	
Map 6a. Map of the Mtirala-Kintrishi nominated component area and its buffer zone (No. 1) with boundaries and zoning of Mtirala National Park and Kintrishi Protected Areas.	1:50,000	
Map 6b. Map of the Mtirala-Kintrishi nominated component area and its buffer zone (No. 1) with boundaries and zoning of Mtirala National Park and Kintrishi Protected Areas <i>shown by separate lines to aide clarity in some areas.</i>	1:50,000	
Map 7. Map of the Ispani nominated component area and its buffer zone (No. 2) with boundaries and zoning of Kobuleti Protected Areas.	1:50,000	
Map 8. Map of the Grigoleti nominated component area and its buffer zone (No. 3) with boundaries and zoning of Kolkheti National Park.	1:50,000	
Map 9. Map of the Imnati and Pitshora nominated component areas and their buffer zones (No. 4 and 5) with boundaries and zoning of Kolkheti National Park.	1:50,000	
Map 10. Map of the Nabada and Churia nominated component areas and their buffer zones (No. 6 and 7) with boundaries and zoning of Kolkheti National Park.	1:50,000	

Appendix 2: Flora list of the Colchic Rainforests and Wetlands

Life forms:

○ - Annual herbs
⊙ - Biennial herbs
B - Bryophyta
P - Fern
L - Lians
• - Perennial
‡ - Shrubs
¥ - Trees
¥;‡- Trees or Shrubs

Ecological groups (Ecotopes):

al – agricultural lands;
bs-crushed stone
fm – forest meadow
fr – forest-covered rocks
fr – forest-covered rocks
hv – high herbaceous vegetation
m – meadow
p- pond
r – rock
ro-roadside
s –swamps
mi-mire
sc – scree
sr – moist rocks
wm– wet meadow

Families, Genus, species/ Nominated component area	Mtirala-Kintrishi	Ispani	Grigoleti	Imnati	Pitshora	Nabada	Churia	Life form	Ecotope	Endemism
No. of nominated component area	1	2	3	4	5	6	7			
B R Y O P H Y T A										
Aulacomniaceae										
<i>Aulacomnium palustre</i> (Hedw) Schwagr		1		1	1	1	1		mi	
Bartramiaceae Schwagr.										
Geocalycaceae										
<i>Lophocolea bidentata</i> L.		1		1	1	1	1		mi	
<i>Hypnum cupressiforme</i> Hedw.		1	1	1	1	1	1		mi	
<i>Philonotis marchica</i> (Hedw.) Brid.		1						B	mi	
Cephaloziaceae Mig.										
<i>Cephalozia connivens</i> (Dicks.) Lindb		1						B	mi	
<i>Odontoschisma denudatum</i> (Nees) Dumort.		1						B	mi	
Dicranaceae Schimp.										
<i>Campylopus pyriformis</i> (Schultz) Brid.		1						B	mi	
<i>C. fragilis</i> (Brid.) Bruch & Schimp.		1						B	mi	
<i>Paraleucobryum longifolium</i> (Ehrh. ex Hedw.) Loeske		1						B	mi	
Hypnaceae Schimp.										
<i>Calliergonella cuspidata</i> (Hedw.) Loeske		1						B	mi	
<i>Hypnum cupressiforme</i> Hedw.		1						B	s	
Polytrichaceae Schwagr.										
<i>Polytrichum strictum</i> Menzies ex Brid.		1					1	B	s	
<i>Atrichum undulatum</i> (Hedw.) P. Beauv.		1						B	s	
Amblystegiaceae										
<i>Amblystegium kochii</i> Schimp.		1	1	1	1				mi	

<i>Atrichum undulatum</i> (Hedw.) P. Beauv.		1	1	1		1	1		mi	
Sphagnaceae Dumort.								B		
<i>Sphagnum austinii</i> Sull. (<i>S. imbricatum</i> Hornsch. ex Russow)		1					1	B	mi	
<i>S. capillifolium</i> (Ehrh.) Hedw.		1	1		1			B	mi	
<i>S. cuspidatum</i> Ehrh.ex Hoffm.		1	1		1		1	B	mi	
<i>S. denticulatum</i> Brid.		1					1	B	mi	
<i>S. fallax</i> H. Klinggr.			1	1			1	B	mi	
<i>S. magellanicum</i> Brid.				1			1	B	mi	
<i>S. palustre</i> L.		1	1	1	1	1	1	B	mi	
<i>S. papillosum</i> Lindb.		1		1	1		1	B	mi	
<i>S. rubellum</i> Wilson		1		1			1	B	mi	
PTERIDOPHYTA										
Aspleniaceae Mett. Ex Frank.										
<i>Asplenium adiantum-nigrum</i> L.	1	1		1				P	f	
<i>A.septentrionale</i> (L.) Hoffm.	1							P	f	
<i>A.trichomanes</i> L. (<i>A.melanocaulon</i> Willd.)	1							P	f	
<i>A.viride</i> Huds.	1							P	r	
<i>Phyllitis scolopendrium</i> (L.) Newm. (<i>Asplenium scolopendrium</i> L.)	1							P	f	
Athyriaceae Alst.										
<i>Athyrium distentifolium</i> Tausch ex Opiz (<i>A.alpestre</i> (Hoppe) Nyl.)	1							P	f-r	
<i>A.filix femina</i> (L.) Roth.	1							P	f	
<i>Gymnocarpium dryopteris</i> (L.) Newm.	1							P	f	
Blechnaceae (C.Presl) Copel.										
<i>Blechnum spicant</i> (L.) Roth (<i>Osmunda spicant</i> L.)	1	1				1		P	f	
Dennstaedtiaceae Lotsy										
<i>Pteridium tauricum</i> V. Krecz.	1	1	1	1	1	1	1	P	F,mi	

Dryopteridaceae Ching (Aspidiaceae Mett. ex Frank, nom.illegit)										
<i>Dryopteris carthusiana</i> (Vill.) H.P.Fuchs D.spinulosa (O.F.Muell.) Sw.	1							P	f	
<i>D.dilatata</i> (Hoffm.) A.Gray (Polipodium dilatatum Hoffm., D.alexeeenkoana Fomin)	1							P	f	Colchic
<i>D.filix-mas</i> (L.) Schott	1	1		1			1	P	f	
<i>D.oreades</i> Fomin	1							P	sr;sh	
<i>D.pseudomas</i> (Wollaston) Holub & Pouzar	1							P	f	
Polystichum braunii (Spenn.) Fee (Aspidium braunii Spenn.)	1							P	f	
<i>P.lonchitis</i> (L.) Roth	1							P	r	
<i>P. setiferum</i> (Forssk.) Moore ex Woynar (Polypodium setiferum Forssk.)	1							P	f	
Equisetaceae Rich. ex DC.										
<i>Equisetum arvense</i> L.	1							•	m;wm	
<i>E. majus</i> Garsault (E. telmateia Ehrh.)	1							•	m;wm	
<i>E. palustre</i> L.	1						1	•	s,wm	
<i>E. ramosissimum</i> Desf.							1	•	s,p	
<i>E.telmateia</i> Ehrh. (E.majus Gars.)	1							•	f	
Huperziaceae Rothm.										
<i>Huperzia selago</i> (L.) Bernh.ex Schrank.& Mart. (Lycopodium selago L.)	1							•	sr; f	
Hymenophyllaceae Link.										
<i>Hymenophyllum tunbrigense</i> (L.) Smith.	1							P	f	
Lycopodiaceae Beauv. ex Mirb.										
<i>Diphasium alpinum</i> (L.) Pothm. Diphasiastrum alpinum (L.) Holub	1							•	m	
<i>Lycopodiella inundata</i> (L.) Holub		1		1			1	•	Wm,mi	
<i>Lycopodium clavatum</i> L.	1							•	sh;f	
Marsileaceae										
<i>Marsilea quadrifolia</i> L.							1	P	p	
Onocleaceae Pichi Sermolli										

Matteucia struthiopteris (L.) Tod. (Struthiopteris filicastrum All.)	1							P	f	
Ophioglossaceae (R.Br.) Agardh										
Ophioglossum lusitanicum L.	1							•	ss,f	
Osmundaceae										
<i>Osmunda regalis</i> L.		1	1	1	1	1	1	P	s,p,mi	
Polypodiaceae Bercht. & J.Presl										
Polypodium vulgare L.	1							P	f; sr	
Pteridaceae Reichen.										
<i>Pteris cretica</i> L.	1							P	f	
Thelypteridaceae										
<i>Thelypteris confluens</i> (Thunb.) C.V. Morton (Thelypteris palustris (A. Gray) Schott)		1		1	1			P	s,wm, mi	
Salviniaceae										
<i>Salvinia natans</i> (L.) All.			1		1	1	1	P	p	
GYMNOSPERMAE										
Cupressaceae Rich ex Bartl.										
Juniperus pygmaea C.Koch (J.communis L. subsp. Pygmaea (C.Koch.)	1							h	f,r	
<i>J.sabina</i> L.	1							h	f,r	
Pinaceae Lindl.										
Abies nordmanniana (Stev.) Spach	1							¥	f	
Picea orientalis (L.) Link	1							¥	f	
<i>Pinus pinaster</i> Aiton		1						¥	ss, mi	
Taxaceae S.F.Gray										
Taxus baccata L.	1							¥	f	

ANGIOSPERMAE (DICOTYLEDONEA)										
Aceraceae Juss.										
<i>Acer campestre</i> L.	1			1	1			¥	f	
<i>A. laetum</i> C.A.Mey.	1							¥	f	
<i>A. platanoides</i> L.	1							¥	f	
<i>A. trautveterii</i> Medw.	1							¥	f	Caucasian
Amaranthaceae Juss.										
<i>Amaranthus blitoides</i> S.Wats.	1							○	rd	
<i>A. hybridus</i> L.	1							○	rd	
<i>A. retroflexus</i> L.	1							○	rd	
Apiaceae Lindl. (Umbelliferae Juss.)										
<i>Aegopodium podagraria</i> L.	1							•	f,wm	
<i>Agasyllis latifolia</i> (Bieb.) Boiss.	1							•	m,f	Caucasian
<i>Angelica archangelica</i> L.							1		mi	
<i>Apium graveolens</i> L.	1	1						⊙	s,rd	
<i>Arafoe aromatica</i> M.Pimen. & Lavrova (Ligusticum arafoe Albov)	1							•	hv,sh	Caucasian
<i>Astrantia maxima</i> Pall.	1							•	sh,m	
<i>Astrodaucus orientalis</i> (L.)Drude	1							○	r,bs	
<i>Bupleurum nordmannianum</i> Ledeb.	1							•	r,bs,m	
<i>Carum carvi</i> L.	1							⊙	m	
<i>C. caucasicum</i> (Bieb.) Boiss.	1							•	m,r	
<i>C. meifolium</i> (Bieb.) Boiss.	1							⊙	m,r	
<i>C. porphyrocoleon</i> (Freyn.& Sint.) Woronow	1							⊙	m,bs	
<i>Chaerophyllum astrantiae</i> Boiss.& Bal.	1							•	m,sh	
<i>Ch. aureum</i> L. (Ch.maculatum Willd.ex DC.)	1							•	f,hv	
<i>Ch. roseum</i> Bieb.	1							•	m	Caucasian

<i>Chamaesciadium acaule</i> (Bieb.)Boiss.	1							•	m,bs	
<i>Daucus carota</i> L.	1	1						○	f,rd	
<i>Heracleum alбовii</i> Manden.(H.pastinacifolium C.Koch.subsp.incanum(Boiss. ex Huet)	1							•	m,bs,sh	Caucasian
<i>H. apiifolium</i> Boiss.	1							•	m	
<i>H. cyclocarpum</i> C.Koch. (H.sphondylium L.subsp.cyclocarpum (C.Koch)P.H.Davis)	1							☉;•	hv,f	Colchic
<i>H. sosnowskyi</i> Manden.	1							☉;•	f	Caucasian
<i>Hydrocotyle ranunculoides</i> L.f.		1					1	•	ws,s,mi	
<i>H. ramiflora</i> Maxim.	1	1						•	ss,mi	
<i>H. vulgaris</i> L.	1						1	•	ws,s	
<i>Lasserpitium affine</i> Ledeb.	1							•	m,f,hv,sh	Colchic
<i>Macrosciadium alatum</i> (Bieb.) V.Tikhomirov & Lavrova (Ligusticum alatum (Bieb.) Spreng.)	1							•	hv,sh	Georgian
<i>Oenanthe aquatica</i> (L.) Poir.				1		1	1	•	s,ws, mi	
<i>Oenanthe pimpinelloides</i> L.	1							•	ss,ms	
<i>Pastinaca armena</i> Fisch.& C.A. Mey.	1							•	m,bs	
<i>P. umbrosa</i> Stev.ex DC.	1							☉	f,sh	
<i>Peucedanum caucasicum</i> (Bieb.) C.Koch (Cervaria caucasica M.Pimen.)	1							•	f,sh	
<i>P. longifolium</i> Waldst. e& Kit. (P.calcareum Albov)	1							•	r,sh	
<i>Physospermum cornubeinse</i> (L.) DC. (Danaa nudicaulis (Bieb.) Grossh.)	1							•	f	
<i>Pimpinella peregrina</i> L. (P.affinis Ledeb.)	1							☉	al,bs,sh	
<i>P. rhodantha</i> Boiss.	1							•	m,f,sh	
<i>P. saxifraga</i> L. (P.dissecta Retz.)	1							•	f,bs	
<i>Sanicula europaea</i> L.	1	1				1		•	f	
<i>L.transcaucasica</i> Schischk.)	1							•	f	
<i>Tordylium maximum</i> L.	1							○	f,sh	
<i>Torilis arvensis</i> (Huds.) Link	1							○	rd	

Apocynaceae Juss.										
<i>Gomphocarpus fruticosus</i> (L.) W.T.Aiton							1	¥	rd	
<i>Vinca minor</i> L.	1							•	f	
Aquifoliaceae Bartl.										
<i>Ilex colchica</i> Pojark.	1				1	1	1	h;¥	f,sh	
Araliaceae Juss.										
<i>Hedera colchica</i> (C.Koch)C.Koch.	1	1			1	1	1	L	f	
<i>H. helix</i> L.(H.caucasigena Pojark.)	1							L	f	
Aristolochiaceae Juss.										
<i>Aristolochia pontica</i> Lam.	1				1	1		•	f	Colchic
Asclepiadaceae R.Br.										
<i>Periploca graeca</i> L.	1			1	1		1	L	f	
<i>Vincetoxicum albowianum</i> (Kusn.) Pobed.	1							•	fr,bs	Caucasian
<i>V.amplifolium</i> C.Koch (V.scandens Somm.& Levier)	1							•	fr,bs	
Asteraceae Dumort. (Compositae Giseke.)										
<i>Achillea beibersteinii</i> Afan.		1						•	rd	
<i>Achillea biserrata</i> Bieb. (Ptarmica biserrata (Bieb.) DC.)	1							•	f	
<i>A. filipendulina</i> Lam.		1					1	•	m,sh	
<i>A.latiloba</i> Ledeb.	1							•	m,f	
<i>A. nobilis</i> L.		1						•	m,f	
<i>A.setacea</i> Waldst. & Kit.	1							•	f,sh	
<i>Aetheopappus caucasicus</i> Sosn.	1							•	r,bs	
<i>Adenostyles macrophylla</i> (Bieb.) Czer.comb.nova (A.rhombifolia (Adams) M.Pimen.;	1							•	r,bs	
<i>Ageratum houstonianum</i> Mill.		1					1	o	rd	
<i>Ambrosia artemisiifolia</i> L.	1	1					1	o	rd,al	
<i>Antennaria caucasica</i> Boriss.	1							•	rd,al	

Anthemis <i>cotula</i> L.		1						•	rd,al	
A. <i>iberica</i> Bieb. (A.anahytæ Woronow ex Sosn.)	1							•	r	
<i>A.marschalliana</i> Willd.	1							•	r	Caucasian
<i>A.schischkiniana</i> Fed.	1							•	m	Georgian
<i>A.tinctoria</i> L.;	1							•	r	
Arctium <i>lappa</i> L.	1							⊙	ss	
<i>A.palladinii</i> (Marc.) Grossh.	1							⊙	f,sh,sn	
Artemisia <i>absinthium</i> L.		1						⊙	rd,al	
<i>A. vulgaris</i> L.	1	1					1	•	f,al	
Aster <i>alpinus</i> L.;	1							•	m	
<i>A.novae-angliae</i> L.	1							•	ss	
<i>A.novi-belgii</i> L.	1							•	ss	
<i>A. salicifolius</i> Lam.							1	•	rd	
<i>A.leavis</i> L.							1	•	mi	
Bellis <i>perennis</i> L.	1							•	f,m	
Bidenis <i>bipinnata</i> L.	1	1	1					○	ss,rd	
<i>B.cernua</i> L.		1	1	1			1	○	ss,rd	
<i>B.tripartita</i> L. (B.orientalis Velen.)	1	1					1	○	s,f	
Carpesium <i>abrotanoides</i> L.	1	1					1	⊙	ss	
<i>C. cernuum</i> L.		1						⊙	rd	
Centaurea <i>cheiranthifolia</i> Willd.(Cyanus cheiranthifolius (Willd.) Sojak)	1							•	f	
<i>C.depressa</i> Bieb.	1							○	rd	
<i>C.fischeri</i> Schlecht. (C.cheiranthifolia Willd.var.purpurascens (DC.) Wagenitz,	1							○	rd	
Cyanus <i>fischeri</i> (Schlecht.) Sojak)	1							•	r	
<i>C.salicifolia</i> Bieb.	1							•	f,sh	
Prenanthes <i>acaliifolia</i> sensu Kirp.)	1							•	hv,f	
Pulicaria <i>dysenterica</i> (L.) Gaertn.		1					1	•	sh,m	

Cichorium <i>intybus</i> L.	1							•	rd,f,m	
Cirsium <i>adjaricum</i> Somm.& Levier	1							•	m	Colchic
<i>C. aggregatum</i> Ledeb.	1							•	hv	Colchic
<i>C.arvense</i> (L.) Scop.	1							•	m,rd	
<i>C.cephalotes</i> Boiss.	1							•	m,bs	
<i>C.hypoleucum</i> DC.	1							⊖	sh	
<i>C.imereticum</i> Boiss.	1							•	f,sh	Colchic
<i>C.incanum</i> (S.G.Gmel.) Fisch.	1	1						•	m	
<i>C.kusnezowianum</i> Somm.& Levier	1							•	m	
<i>C.obvallatum</i> (Bieb.) Fisch.	1							•	m	
<i>C.simplex</i> C.A.Mey.	1							•	m	Caucasian
<i>C.vulgare</i> (Savi)Ten.	1							⊖	m	
Conyzanthus <i>graminifolius</i> (Spreng) Tamamsch.	1	1						•	ss	
Crassocephalum <i>crepidioides</i> (Benth.) S.Moore.; <i>Gynura crepioides</i> Bernth.	1	1					1	○	f,rd,sh,al	
Crepis <i>pontica</i> C.A.Mey.	1							•	m	Colchic
<i>C.rhoeadifolia</i> Bieb. (<i>C.foetida</i> L.subsp. <i>rhoeadifolia</i> (Bieb.Calak.)	1	1						○; ⊖	rd,bs	
<i>C.setosa</i> Hall.fil.	1							○	ss,f,m	
Dichrocephala <i>integrifolia</i> (L.f.) Kuntze		1						○	ss,f	
Doronicum <i>macrophyllum</i> Fisch.ex Hornem.	1							•	hv	
<i>D.orientale</i> Hoffm.	1							•	f,sh	
Echinops <i>colchicus</i> Sosn.	1	1					1	•	sn,r,bs	Colchic
Erigeron <i>annus</i> (L.) Pers. (<i>Stenactis annua</i> (L.) Cass.	1	1						○; ⊖	sn,r,bs	
<i>E. canadensis</i> L. (<i>Conyzanthus canadensis</i> (L.) Cronq.)		1						○; ⊖	sn,rd.al	
<i>E.caucasicus</i> Stev.	1							•	m,r,sh	Caucasian
<i>E.orientalis</i> Boiss,	1							•	m,sh	
<i>E.uniflorus</i> L.	1							•	m	
Eupatorium <i>cannabinum</i> L.	1	1	1	1	1	1	1	•	f	

Filago arvensis L. (Logfia arvensis (L.) Holub.; Oglifa arvensis (L.) Cass.)	1							○	sh,r	
<i>F. eriocephala</i> Guss. (eriocephala (Guss.) Chrtk. & Holub)	1							○	r,rd,sn	
<i>F. gallica</i> (L.) L.		1					1	○	rd,sn	
Galinsoga ciliata (Rafin) Blake	1	1					1	○	al	
<i>G. parviflora</i> Cav.	1	1						○	rd	
Gnaphalium affine D. Don.	1							○	ms,sn	
<i>G. luteoalbum</i> L.		1						○	ms,sn	
Grossheimia polyphylla (Ledeb.) Holub. (<i>G. ossica</i> (C. Koch) Sosn. & Takht.)	1							•	hv,f	Colchic
Gymnaster savatieri (Makino) Kitam.		1						•	m	
Helianthus tuberosus L.		1						•	m	
Helichrisum polyphyllum Ledeb. (<i>H. plicatum</i> DC. subsp. <i>polyphyllum</i> (Ledeb.) P. H.)	1							•	f,sh,bs	Georgian
Hieracium adjarianum Peter	1							•	f,fr,m	Colchic
<i>H. asterodermum</i> (Woronow & Zahn.) Juxip	1							•	m	
<i>H. x brachiatum</i> Bertol. ex DC. (<i>H. pseudobrachiatum</i> Celak.)	1							•	m	
<i>H. x erythrocarpum</i> Peter	1							•	f,r,sh,m	
<i>H. hoppeanum</i> Schult. (<i>Pilosella hoppeana</i> (Schult.) F. Schultz & Sch. Bip.)	1							•	sh,m	
<i>H. hypeuryum</i> Peter	1							•	r,sh,bs	
<i>H. juranum</i> Fries	1							•	f,sh,m	
<i>H. laevigatum</i> Willd.	1							•	f	
<i>H. macrolepis</i> Boiss.	1							•	sh,m	
<i>H. ovalifrons</i> (Woronow & Zahn.) Juxip	1							•	f	
<i>H. pilosella</i> L. (<i>Pilosella officinarum</i> F. Schultz and Sch. Bip.)	1							•	sh,m	
Hypochoeris radicata L.	1							•	al,sh,f	
Inula britannica L.	1							•	ss	
<i>I. conyzia</i> DC. (<i>I. squarrosa</i> (L.) Bernh.)	1							⊙	fr,sh	
<i>I. helenium</i> L.	1							•	f,sh	

<i>I. magnifica</i> Lipsky	1							•	m,hv,f	Colchic
<i>I. orientalis</i> Lam.	1							•	f,sh,m	
<i>Jurinella subacaulis</i> (Fisch. & C.A.Mey.) Iljin	1							•	bs,m	
<i>Kemulariella caucasica</i> (Willd.) Tamamsch.	1							•	m,sh,f	Caucasian
<i>Lapsana grandiflora</i> Bieb. (L.communis L.subsp. grandiflora. Bieb)	1							•	f	
<i>L. intermedia</i> Bieb.	1							o; ☉	f,sh	
<i>Leontodon danubialis</i> Jacq.	1						1	•	ss,rd	
<i>L. hispidus</i> L.	1	1				1	1	•	bs,r,fr	
<i>Leucanthemum vulgare</i> Lam.; (L.vulgare Lam.subsp.multicaule A.Khokhr.)	1	1					1	•	f,m	
<i>Matricaria chamaemilla</i> Hill		1						o; ☉	rd, m	
<i>Gnaphalium sylvaticum</i> L.(<i>Synchaeta caucasica</i> (Somm. & Levier) Kirp.)	1							•	m,bs,r	
<i>Gnaphalium supinum</i> L.	1							•	m,r	
<i>Petasites albus</i> (L.) Gaertn.	1							•	f	
<i>Prenanthes abietina</i> (Boiss. & Bal.) Kirp.	1							•	f,hv	
<i>P. purpurea</i> L.	1							•	f,m,sh	
<i>Psephellus adjaricus</i> (Albov) Grossh. (Centaurea hypoleuca DC. var.adjaricus Albov)	1							•	r,sh	Colchic
<i>P. shawsheticus</i> Khokhr.	1							•	m	Ajara-Lazetian
<i>Pyrethrum coccineum</i> (Willd.) Worosch. (P.roseum (Adams) Bieb.)	1							•	m	
<i>P. macrophyllum</i> (Waldst. And Kit.) Willd.	1							•	f,sh,m	
<i>P. parthenifolium</i> Willd.	1							•	r	
<i>P. punctatum</i> (Desr.) Bordz.ex Grossh.& Schischk.	1							•	s	
<i>Santolina chamaecyparissus</i> L.		1					1	ჰ	ws	
<i>Scorzonera cana</i> (C.A.Mey.) O.Hoffm. (S.meyeri (C.Koch) Lipsch.)	1							•	m,bs	
<i>Senecio erraticus</i> Bertol. (Jacobaea erratica (Bertol.) Fourr.)		1					1	•	rd	
<i>S. pandurifolius</i> C.Koch	1							•	f,r	Caucasian

<i>S. rhombifolius</i> (Adams) Sch.Bip.)	1							•	hv	
<i>S. platyphylloides</i> Somm.& Levier	1							•	m	Colchic
<i>S. propinquus</i> Schischk.	1							•	f,sh	Caucasian
<i>S.pseudoorientalis</i> Schischk.	1							•	m,sh	
<i>S. seidlitzii</i> Boiss.	1							•	m,bs	
<i>S. sylvaticus</i> L.		1						○	s, mw	
<i>S.taraxacifolius</i> (Bieb.) DC.	1							•	s	
<i>S.vernalis</i> Waldst.& Kit.	1	1						○	rd	
<i>S.vulgaris</i> L.	1	1						○	rd	
Serratula <i>quinquefolia</i> Bieb.ex Willd.	1							•	f,sh	
Sigesbeckia <i>orientalis</i> L.	1	1						○	f	
Silybum <i>marianum</i> (L.) Gaertn.		1						•	s,ss	
Sonchus <i>arvensis</i> L.		1						•	ss,rd	
<i>S. asper</i> (L.) Hill	1	1		1			1	○	ss,rd	
<i>S.oleraceus</i> L.	1							○	rd,al	
Solidago <i>canadensis</i> L.							1	•	rd	
<i>S. turfosa</i> Woronow ex Grossh.		1	1	1			1	•	s,ws	
<i>S. virgaurea</i> L. (S.armena Kem.-Nath.ex Grossh.)	1	1	1	1	1	1	1	•	f,fr	Caucasian
Tagetes <i>minuta</i> L.		1						○	sn,rd	
Taraxacum <i>officinale</i> Wigg.	1							•	m	
Telekia <i>speciosa</i> (Schreb.) Baumg.	1							•	f,hv	
Tripleurospermum <i>szowitzii</i> (DC.) Pobed. Matricaria szowitzii (DC.) Rauschert	1							•	r	Georgian
Tussilago <i>farfara</i> L.	1							•	r,f,bs	
Xanthium <i>californicum</i> Greene		1						○	sn,rd	
<i>X. occidentale</i> Bert. (X.albinim (Widd.) H.Scholz.)	1	1						○	sn,rd	
<i>X.spinosum</i> L.		1						○	sn,rd	

<i>X.strumarium</i> L.	1	1						○	f,rd	
Balsaminaceae A.Rich.										
<i>Impatiens noli-tangere</i> L.	1							○	f	
Berberidaceae Torz. et Grey.										
<i>Berberis vulgaris</i> L.	1							¥	f	
<i>Epimedium colchicum</i> (Boiss.) Trautv. (E.pinnatum Fisch. Subsp. Colchicum (Boiss.)	1							•	fr	
Betulaceae S.F.Gray										
<i>Alnus glutinosa</i> ssp. barbata (C.A.Mey.) Yalt	1	1	1	1	1	1	1	¥	f	
<i>Betula litwinowii</i> Doluch.	1							¥	f	
<i>B.medwedewii</i> Regel	1							¥	f	Colchic
Boraginaceae Juss.										
<i>Anchusa azurea</i> Mill. (A.italica Retz.)	1							⊙;•	rd	
<i>Brunnera macrophylla</i> (Adams) Johnst.	1							•	f	
<i>Cerinth glabra</i> Mill. (C.alpina Kit.)	1							•	m	
<i>Cynoglossum creticum</i> Mill. (C.pictum Soland)	1							⊙	bs	
<i>C.holosericeum</i> Stev.	1							•	sh,fm	
<i>C.officinale</i> L.	1							⊙	bs	
<i>Echium vulgare</i> L.	1							⊙	rd	
<i>Huynhia pulchra</i> (Roem. & Schult.) Greuter&Burdet (*Macrotomia echioides (L.) Boiss.)	1							•	m	
<i>Lapulla barbata</i> (Bieb.) Guerke	1							○;⊙	bs,rd	
<i>L.squarrosa</i> (Retz.) Dumort.	1							○;⊙	f,bs	
<i>Lithospermum officinale</i> L.	1							•	m,sn,al	
<i>Myosotis alpestris</i> F.W.Schmidt	1							•	m,r	
<i>M.amoena</i> (Rupr.) Boiss.	1							○;⊙	f	Colchic
<i>M.arvensis</i> (L.) Hill.	1							○;⊙	m,rd	

<i>M.lazica</i> M.Pop.	1							○	f,bs,sn	Colchic
<i>M.palustris</i> (L.) Nathh.		1		1			1	•	wm,s,mi	
<i>M.sylvatica</i> Ehrh. ex Hoffm.	1							⊙;•	f,sh	
<i>Nonea intermedia</i> Ledeb.	1							•	m	Colchic
<i>Omphalodes cappadocica</i> (Willd.) DC.	1							•	f,fr	
<i>Cynoglossum imeretinum</i> (Kusn.); M. Pop	1							○;⊙	ss	Caucasian
<i>Symphytum caucasicum</i> Bieb.	1							•	f	Caucasian
<i>S.grandiflorum</i> DC. (<i>S.ibericum</i> Stev.)	1							•	f	Georgian
<i>Sasperum</i> Lepech.	1							•	hv,m	Georgian
Brassicaceae Burnett (Cruciferae Juss.)										
<i>Alliaria petiolata</i> (Bieb.) Cavara & Grande	1							⊙	f,sh	
<i>Barbarea minor</i> C.Koch	1							•	m,ms	
<i>B.plantaginea</i> DC.*	1							⊙	m	
<i>B.vulgaris</i> R.Br. (<i>B.arcuata</i> (Opiz ex J.& C.Presl.) Recheng.)	1							⊙	ms,rd	
<i>Berteroa incana</i> (L.) DC.	1							⊙	fr,m	
<i>Brassica campestris</i> L.	1							○	al	
<i>Bunias orientalis</i> L.	1							⊙	m	
<i>Capsella bursa-pastoris</i> (L.) Medik.	1							○	rd	
<i>Cardamine hirsuta</i> L.	1	1					1	○	f,sh	
<i>C.impatiens</i> L.	1							○;⊙	f	
<i>C.lazica</i> Boiss.& Bal.	1	1						•	f	
<i>C.parviflora</i> L.	1							○;⊙	s,ss,rd	
<i>C.pectinata</i> Pall.ex DC. (<i>C.impatiens</i> L.var. <i>pectinata</i> (Pall.ex DC.) Trautv.)	1							•	f	
<i>C.seidlitziana</i> Albov (<i>C.acris</i> auct.)	1							•	ms,s	
<i>C.tenera</i> S.G.Gmel.ex C.A.Mey.	1							•	f	
<i>C.uliginosa</i> Bieb.	1							•	ms	
<i>Cardaria draba</i> (L.) Desv. (<i>Lepidium draba</i> L.)	1							•	rd	

Dentaria bulbifera L.	1							•	f	
<i>D.quinquefolia</i> Bieb.	1							•	f	
Draba polytricha Ledeb.	1							•	r	
<i>D.siliquosa</i> Bieb.	1							•	r	
Erophila verna (L.) Bess.	1							o	rd	
Hesperis adzharica Tzhvel. (H.matronalis subsp. adzharica (Tzhvel.) Cullen)	1							☉;•	f,hv	
Pachyphragma macrophyllum (Hoffm.) N.Busch	1							•	f	Caucasian
Rorippa palustris (L.) Besser	1						1	☉;•	s,ws	
Buxaceae Dumort.										
Buxus colchica Pojark.	1				1			ჰ;¥	f,fr	Colchic
Campanulaceae Juss.										
Campanula alliariifolia Willd. (C.ochroleuca Kem-Nath.)	1							•	f	
<i>C. alpigena</i> C.Koch	1							•	bs	
<i>C.collina</i> Sims (C.collina Bieb.; C.annae Kolak.)	1							•	bs	Caucasian
<i>C.cordifolia</i> C.Koch (C.rapunculoides L.subsp.cordifolia (C.Koch) Damboldt)	1							•	bs	
<i>C.hemschinica</i> C.Koch (C. olympica auct.p.p.)	1							☉;•	f	
<i>C.latifolia</i> L.	1							•	m	
Gadellia lactiflora (Bieb.) Schulkina (Campanula lactiflora Bieb.)	1							•	hv	Caucasian
Cannabinaceae Endl.										
Humulus lupulus L.	1			1	1		1	•	f	
Caprifoliaceae Juss.										
Lonicera caprifolium L.	1	1		1	1		1	L	f	
<i>L. japonica</i> Thunb.							1	L	f,sh	
<i>L.orientalis</i> Lam. (L.caucasica Pall.)	1							ჰ	f	
Succisa pratensis Moench				1	1		1	•	sh, ws	
Caryophyllaceae Juss.										
Agrostemma githago L.	1							o	al	

<i>Arenaria rotundifolia</i> M.Bieb.	1							•	m,sh	
<i>A.serpyllifolia</i> L.	1						1	○; ⊙	rd	
<i>Cerastium cerastoides</i> (L.) Britt.	1							•	ms	
<i>C.hemschianicum</i> Schischk.	1							•	m,hv	
<i>C.holosteoides</i> Fries	1							○; ⊙; •	m,al	
<i>C.oreades</i> Schischk.	1							•	m,sh	
<i>C.purpurascens</i> Adams	1							•	m,sh	
<i>Dianthus armeria</i> L.	1							○; ⊙	f	
<i>D.cretaceus</i> Adams (D.petraeus Bieb.)	1							•	r,bs	
<i>D.multicaulis</i> Boiss.& Huet.	1							•	r,bs	
<i>Gypsophila elegans</i> Bieb.	1							○	bs	
<i>G.silenoides</i> Rupr.	1							•	r,bs	
<i>G.tenuifolia</i> Bieb.	1							•	r	Caucasian
<i>Herniaria glabra</i> L.	1							•	fr	
<i>Melandrium balansae</i> Boiss.	1							⊙	f,m	
<i>M.noctiflorum</i> (L.) Silene noctiflora L.	1							○	f,sh	
<i>Minuartia aizoides</i> (Boiss.) Bornm. (Alsine aizoides Boiss.)	1							•	bs,r	
<i>M.biebersteinii</i> (Rupr.) Schischk.	1							•	r,bs	Caucasian
<i>M.circassica</i> (Albov) Woronow (<i>Minuartia caucasica</i> (Adams ex Rupr.))	1							•	r,bs	
<i>Matff. nom.</i> (illegit.)	1							•	r,bs,sh	
<i>M.imbricata</i> (Bieb.)Woronow	1							•	bs,r	
<i>M.oreina</i> (Mattf.) Schischk.	1							•	bs,sh,m	
<i>Moehringia trinervia</i> (L.) Clairv.	1							○; ⊙	f,ms	
<i>Myosoton aquaticum</i> (L.) Moench (<i>Malachium aquaticum</i> (L.) Fries)	1							•	f,s	
<i>Oberna multifida</i> (Adams) Ikonn.(<i>Silene multifida</i> (Adams) Rohrb.	1							•	m	
<i>O.wallichiana</i> (Klotzsch.) Ikonn. (<i>Silene wallichiana</i> Klotzsch.)	1							•	fm	
<i>Petrorhagia alpina</i> (Habl.) P.W.Ball. & Heywood	1	1						•	fm	

<i>P.saxifraga</i> (L.) Link (Tunica 22pétala22a (L.) Scop.)	1							•	bs,fr	
Sagina 22pétala Ard. (S.ciliata Friesx)	1							○	rs	
<i>S.oxysepala</i> Boiss.	1							○	al	
<i>S.procumbens</i> L.	1							•	m,rs,sh	
<i>S.saginoides</i> (L.) Karst.	1							•	m,s,ms	
Scleranthus polycarpus L. (S.annuusL.subsp.polycarpus (L.) Thell.)	1	1						○	bs	
<i>S.uncinatus</i> Schur	1							○	bs	
Silene compacta Fisch.ex Hornem.	1							○; ⊙	r,fr,f	
<i>S.italica</i> (L.)Pers.	1							•	r,bs,m	
<i>S. galica</i> L.		1						•	r,bs,m	
<i>S.physocalyx</i> Ledeb.	1							•	r	
<i>S.ruprechtii</i> Schischk. (S.saxatilis Bieb. Non Sims.)	1							•	r,bs	
Stellaria holostea L.	1							•	fr	
<i>S.media</i> (L.) Vill.(Alsinula media (L.) Dostal, comb.invalid.)	1	1					1	○; ⊙	rd	
<i>S.nemorum</i> L. (S.montana auct.)	1							•	m,f	
Capparaceae Juss.										
Cleome iberica DC. (C.ornithopodioides p.p.)	1							○	r,sn	
Celastraceae R.Br.										
Euonymus 22oldane L. (E.floribunda Stev.)	1							ħ	f	
<i>E.latifolia</i> (L.) Mill.	1			1			1	ħ	f	
<i>E.leiophloea</i> Stev. (E.ketzhovelli Gatsch.)	1							ħ	f	Caucasian
Chenopodiaceae Vent.										
Chenopodium album L.	1							○	al	
<i>Ch.botrys</i> L.	1							○	sn,rd	
<i>Ch.foliosum</i> Aschers.	1							○	rd	
Convolvulaceae Juss.										
Calystegia sepium (L.) R.Br.	1	1						•	al,sh	

<i>C.silvatica</i> (Kit.) Griseb. (<i>C.sylvestris</i> (Willd.) Roem. & Schult.)	1							•	f	
<i>C.oldanella</i> (L.) R. Br.			1	1			1			
<i>Convolvulus arvensis</i> L.	1	1	1				1	•	m,al	
<i>C.cantabrica</i> L.	1							•	r,fr	
Cornaceae Dumort.										
<i>Swida australis</i> (C.A.Mey.) Pojark.ex Grossh. (<i>Thelycrinia australis</i> (C.A.Mey.) Sanadze)	1							ჰ;¥	f	
<i>Thelycrania koenigii</i> (Schneid.) Sanadze) <i>S.koenigii</i> (Schneid.) Pojark. Ex Grossh.	1							ჰ;¥	f	Colchic
Corylaceae Mirb.										
<i>Carpinus betulus</i> L.(<i>C.caucasica</i> Grossh.)	1	1					1	¥	f	
<i>Corylus avellana</i> L.	1	1						ჰ;¥	f	
<i>C.maxima</i> Mill.	1							ჰ;¥	f	
Crassulaceae DC.										
<i>Sedum annuum</i> L.	1							○	r	
<i>S.caucasicum</i> (Grossh.) Boiss.	1							•	r	
<i>S.gracile</i> C.A.Mey.	1							•	r,bs	
<i>S.hispanicum</i> L.	1							○; ⊙	r	
<i>S.spurium</i> Bieb.	1							•	bs,sh	
<i>S.stoloniferum</i> S.G.Gmel.	1							•	bs,sh	
<i>S.tenellum</i> Bieb.	1							•	r,bs	
<i>Sempervivum armenum</i> Boiss.& Huet. (<i>S.glabrifolium</i> Boriss.)	1							•	r	
<i>Pseudorosularia pilosa</i> (Bieb.) Gurgendidze (<i>Prometheum pilosum</i> (Bieb.)H.Ohba;	1									
<i>Rosularia pilosa</i> (Bieb.) Boriss.)	1							⊙	r	
Cuscutaceae Dumort.										
<i>Cuscuta approximata</i> Bab. (<i>C.cupulata</i> Engelm.)	1							○	f	
<i>C.australis</i> R.Br.		1					1	○	r,al	

<i>C.europaea</i> L.	1							○	r,al	
<i>C.cesatiana</i> Bertol.		1						○	r,al	
Datisceae Lindl.										
<i>Datisca cannabina</i> L.	1							•	f	
Dipsacaceae Juss.										
<i>Cephalaria connivens</i> (Dicks.) Lindb										
<i>C.gigantea</i> (Ledeb.) Bobr.	1			1	1			•	hv	Caucasian
<i>C.procera</i> Fisch. & Ave-Lall.	1							•	f	
<i>Dipsacus pilosus</i> L.	1							⊙	m,f	
<i>Knautia montana</i> (Bieb.) DC.	1							⊙	hv	
<i>K.involucrata</i> Somm.& Levier	1							•	hv	Caucasian
<i>Scabiosa adzharica</i> Schchian.	1							•	r,sh	Colchic
<i>S.sosnowskyi</i>	1							•		Colchic
<i>S. maritima</i> L.						1	1	•	r,sh	
Ebenaceae Guerke										
<i>Diospyros lotus</i> L.	1							¥	f	
Droseraceae Salisb.										
<i>Drosera rotundifolia</i> L.		1		1		1	1	•	mi	
Elaeagnaceae Juss.										
Empetraceae S.Gray										
<i>Empetrum caucasicum</i> Jus.	1							ჲ	r,sh	
Ericaceae Juss.										
<i>Calluna vulgaris</i> (L.) Hull		1						ჲ	mi	
<i>Epigaea gaultherioides</i> (Boiss. & Bal.) Takht.	1							ჲ	f,sh	Ajara-Lazetian
<i>Rhododendron caucasicum</i> Pall.	1							ჲ	f,sh,m	
<i>R.luteum</i> Sweet.	1	1		1			1	ჲ	f,sh, mi	

<i>R.ponticum</i> L.	1	1		1	1		1	ḥ	f,sh, mi	
<i>R.ungernii</i> Trautv.	1							ḥ	f,sh	Ajara-Lazetian
Euphorbiaceae Juss.										
<i>Acalypha australis</i> L.	1							o	rd	
<i>Euphorbia amygdaloides</i> L.	1							•	sh,f	
<i>E.condylocarpa</i> Bieb.	1							•	m	
<i>E.macroceras</i> Fisch.&C.A. Mey.	1							•	m,f	Caucasian
<i>E.oblongifolia</i> (C.Koch) C.Koch	1							•	f,m	
<i>E.palustris</i> L.							1	•	s,wm	
<i>E.pontica</i> Prokh.	1							•	bs	Colchic
<i>E.scripta</i> Somm.& Levier	1							•	m	Caucasian
<i>E.squamosa</i> Willd.	1							•	sh,f	
<i>E.stricta</i> L.	1							•	rd	
<i>E.villosa</i> Waldst.& Kit.	1							•	m	
<i>E.virgata</i> Waldst.& Kit.	1							•	fr	
Fabaceae Lindl. (Leguminosae Juss.)										
<i>Amoria ambigua</i> (Bieb.) Sojak (Trifolium ambiguum Bieb.)	1	1						•	m	
<i>A.glomerata</i> (L.) Sojak (Trifolium glomeratum L.)	1							•	sn	
<i>Amoria hybrida</i> (L.) C.Presl (Trifolium hybridum L.)	1							•	m	
<i>A.repens</i> (L.) C.Presl (Trifolium repens L.)	1							•	f	
<i>Amorpha fruticosa</i> L.							1	ḥ	f	
<i>Anthyllis variegata</i> Boiss. (A.caucasica (Grossh.) Jus.)	1							⊙	bs,m	
<i>Argyrolobium biebersteini</i> P.W.Ball (A.calycinum (Bieb.) Jaub. And Sparch.)	1							•	fr,bs	
<i>Astragalus bachmarensis</i> Grossh.	1							•	sh,m	Colchic
<i>A.frickii</i> Bunge	1							•	r,bs	Colchic
<i>A.glycyphylloides</i> DC. (A.glyciphyllous L. subsp. Glyciphyllouides (DC.)	1							•	sh,f	

Matthews)										
<i>A. incertus</i> Ledeb.	1							•	r	
<i>A. viciifolius</i> DC. (<i>A. doluchanovii</i> Manden.)	1							•	m,r	Ajara-Lazetian
<i>Chamaecytisus hirsutissimus</i> (C.Koch) Czer. (<i>Cytisus hirsutus</i> C.Koch)	1							h	fr,r	Caucasian
<i>Gleditsia triacanthos</i> L.				1			1	¥	rd	
<i>Glycyrrhiza glabra</i> L.		1						o	rd	
<i>Lathyrus aureus</i> (Stev.) Brandza	1							•	sh,f	
<i>L. hirsutus</i> L.	1							o	rd,r	
<i>L. laxiflorus</i> (Desf.) O.Kuntze.	1							•	f	
<i>L. pratensis</i> L.	1							•	f,sh,m	
<i>Lotus caucasicus</i> Kuprian. ex Juz.	1							•	bs,m	Caucasian
<i>L. corniculatus</i> L.	1	1						•	sh,rd,sn	
<i>L. tenuis</i> Waldst. & Kit. ex Willd. (<i>L. corniculatus</i> L. subsp. <i>tenuis</i> Briq ex Rech.fil.)	1	1						•	ss	
<i>L. angustifolius</i> L.	1							o	ss	
<i>L. palustris</i> Willd.		1						o	s	
<i>Medicago arabica</i> (L.) Huds.	1	1						o	f,sh,sn	
<i>M. denticulata</i> Willd.		1						o	f,sh,sn	
<i>Onobrychis kemulariae</i> Chinth.	1							•	r,bs	Georgian
<i>O. meschetica</i> Grossh.	1							•	r,bs	Georgian
<i>Ononis arvensis</i> L.	1	1						•	sh	
<i>Oxytropis cyanea</i> Bieb. (<i>O. caucasica</i> Regel)	1							•	m,bs	
<i>O. lazica</i> Boiss. (<i>O. meyeri</i> Bunge)	1							•	bs	
<i>Psoralea acaulis</i> Stev.	1	1					1	•	fr,m	
<i>Robinia pseudacacia</i> L.	1							¥	f	
<i>Securigera balansae</i> (Boiss.) Czer. (<i>Coronilla balansae</i> (Boiss.) Grossh.)	1							•	bs	

<i>S.orientalis</i> (Mill.) Lassen (Coronilla orientalis Mill.)	1							•	r,fr	
<i>S.varia</i> (L.) Lassen (Coronilla varia L.)	1	1					1	•	sh,f	
Trifolium arvense L.	1							○	rd	
<i>T.campestre</i> Schreb.	1	1						•	m,rd	
<i>T.canescens</i> Willd.	1							•	f,m	
<i>T.caucasicum</i> Tausch	1							•	f	
<i>T.fragiferum</i> L.		1						•	m,rd	
<i>T.medium</i> L.	1							•	f	
<i>T.pratense</i> L.	1							•	m,fr	
<i>T.resupinatum</i> L.		1						•	m,rd	
<i>T.subterraneum</i> L.		1						•	m,rd	
<i>T.trichocephalum</i> Bieb.	1							•	sh,r,bs,m	
<i>T.tumens</i> M.Bieb.		1						•	m,rd	
Trigonella coerulea (L.) Ser. (Trifolium caeruleum L.)	1							○	rd	
<i>T.procumbens</i> (Bess.) Reichenb.	1							○	ms	
Vicia angustifolia Reichard (V.sativa L.subsp. nigra (L.) Ehrh.)	1							○	rd	
<i>V.antiqua</i> Grossh.	1							•	ss,sh	Colchic
<i>V.balansae</i> Boiss.	1							•	sh,m	
<i>V.cassubica</i> L.	1							•	f	
<i>V.crocea</i> (Desf.) Fritsch	1							•	f,hv	
<i>V.grossheimii</i> Ekvim.	1							•	sh,m	Caucasian
<i>V.sativa</i> L.		1						•	sh,m	
<i>V.sepium</i> L.	1							•	sh,f	
<i>V.tetrasperma</i> (L.) Schreb.	1							○	rd,sn	
Fagaceae Dumort.										
Castanea sativa Mill.	1							¥	f	
Fagus orientalis Lipsky	1			1			1	¥	f	

<i>Q.petraea</i> L.ex Liebl. subsp.dschorochensis (C.Koch) Menitsky)	1							¥	f	Ajara-Lazetian
<i>Q.hartwissiana</i> Stev.	1	1		1			1	¥	f	
<i>Q.imeretina</i> Stev.ex Woronow (<i>Q.robur</i> ssp. Imeretina (Stev.) menitsky)	1	1						¥	f	Georgian
<i>Q.pontica</i> C.Koch	1							ჲ;¥	f	Colchic
Fumariaceae DC.										
<i>Corydalis alexeenkoana</i> N.Busch	1							•	m	
<i>C.angustifolia</i> (Bieb.) DC.*	1							•	f,r	
<i>C.caucasica</i> DC.	1							•	f	
<i>C.conorhiza</i> Ledeb.	1							•	m,sh	
Gentianaceae Juss.										
<i>Centaurium erythraea</i> Rafn	1						1	○	m,sh	
<i>Gentiana aquatica</i> L.	1							○	m	
<i>G.cruciata</i> L.	1							•	m	
<i>G.pneumonanthe</i> L.				1			1	•	wm,s	
<i>G.pyrenaica</i> L. (<i>G.dshimilensis</i> C.Koch)	1							•	m	
<i>G.schistocalyx</i> (C.Koch) C.Koch (<i>G.asclepiadea</i> L.var.schistocalyx C.Koch)	1							•	f	Caucasian
<i>G.septemfida</i> Pall.	1							•	m	
<i>Gentianella caucasea</i> (Lodd. ex Sims.) Holub (<i>Gentiana caucasica</i> Lodd. ex Sims.;	1							•	m	
<i>Swertia iberica</i> Fisch ex C.A.Mey.	1							•	m,ms	Caucasian
Geraniaceae Juss.										
<i>Erodium cicutarium</i> (L.).L"Her.	1							○;☉	ss,rd	
<i>Geranium columbinum</i> L.	1							○	rd	
<i>G.dissectum</i> L.	1							○	sh	
<i>G.gymnocaulon</i> DC.	1							•	bs,m	
<i>G.ibericum</i> Cav.	1							•	sh,m	

<i>G. palustre</i> L.						1	1	•	wm,s	
<i>G. platypetalum</i> Fisch. & C.A.Mey.	1							•	m,sh,bs	
<i>G. psilostemon</i> Ledeb.	1							•	f,sh,m	
<i>G. robertianum</i> L.	1							○; ⊙	f,sh	
<i>G. rotundifolium</i> L.	1	1						○	f,sh	
Grossulariaceae DC. (Ribesiaceae Endl.)										
<i>Ribes alpinum</i> L.	1							ћ	f,fr	
Haloragaceae										
<i>Myriophyllum spicatum</i> L.		1		1		1	1	•	p	
<i>M. verticillatum</i> L.		1		1		1	1	•	p	
Hypericaceae Juss.										
<i>Hypericum androsaemum</i> L.	1							ћ	fr,f	
<i>H. bithynicum</i> Boiss. (H.nordmanii Boiss.)	1							•	m,sh	Ajara-Lazetian
<i>H. bupleuroides</i> Griseb. (H.bithynicum Boiss.)	1							•	m,f	
<i>H. caucasicum</i> (Woronow) Gorschk. (H.montbertii Spach var.caucasicum Woronow)	1							•	m,f	
<i>H. grossheimii</i> Kem.-Nath. (H.pruinatum Boiss. & Bal.fide Czer.)	1							•	r,sh,bs	Caucasian
<i>H. linarioides</i> Bosse (H.poligonifolium Rupr.)	1							•	m,r,bs	
<i>H. montanum</i> L.	1							•	f	
<i>H. mutilum</i> L.		1	1	1	1	1	1	○, •	ws, mi	
<i>H. perforatum</i> L.	1							•	m,f	
<i>H. xylosteifolium</i> (Spach)	1							ћ	fr,f	
Juglandaceae A.Rich.ex Kunth										
<i>Juglans regia</i> L.	1							¥	f	
<i>Pterocaria fraxinifolia</i> (Poir.) K.Koch (P. pterocarpa (Michx.) Kunth ex J.Jljinsk.)	1			1	1	1	1	¥	f	
Lamiaceae Lindl. (Labiatae Juss.)										

Ajuga reptans L.	1						1	•	f,m	
<i>A.orientalis</i> L.	1							•	m	
Betonica <i>macrantha</i> C.Koch (B.grandiflora Steph. ex Willd.)(Stachys macrantha	1									
Calamintha <i>grandiflora</i> (L.) Moench	1							•	f	
<i>C.nepeta</i> (L.) Savi	1							•	ss	
<i>C.menthifolia</i> Host.	1							•	f	
Clinopodium <i>umbrosum</i> (Bieb.) C.Koch	1							•	f	
<i>C.vulgare</i> L.	1							•	f	
Galeobdolon <i>luteum</i> Huds.	1							•	f	
Galeopsis <i>bifida</i> Boenn.	1							○	m,sh,rd	
<i>G.ladanum</i> L.	1							○	rd	
<i>G.tetrahit</i> L.		1						○	rd	
Glechoma <i>hederacea</i> L.	1	1						•	f	
Hyssopus <i>angustifolius</i> Bieb.	1							•	r	
Lamium <i>album</i> L.	1	1						•	f	
Lycopus <i>europaeus</i> L.	1	1					1	•	ms	
Mentha <i>aquatica</i> L.	1					1		•	s	
<i>M.longifolia</i> (L.) Huds.	1							•	m	
<i>M.pulegium</i> L.	1	1					1	•	s	
Melissa <i>officinalis</i> L.	1							•	f	
Origanum <i>vulgare</i> L.	1							•	sh,fr,f	
Perilla <i>nankinensis</i> Wender.	1	1						○	rd	
Prunella <i>grandiflora</i> (L.) Scholl.	1							•	m	
<i>P.laciniata</i> (L.) L.	1			1				•	m	
<i>P.vulgaris</i> L.	1							•	f,fr,m	
Salvia <i>glutinosa</i> L.	1							•	f	

<i>S.verticillata</i> L.	1							•	bs,r	
<i>Scutellaria pontica</i> C.Koch	1							•	r,bs	Ajara-Lazetian
<i>S.woronowii</i> Juz. (<i>S.albida</i> subsp.colchica (Rech.fil.) Edmondson.)	1							•	f	
<i>Sideritis comosa</i> (Rochel ex Benth.) Stank.	1							○	m	
<i>Stachys annua</i> (L.) L.	1							○; ⊙	rd	
<i>S.atherocalyx</i> C.Koch	1							•	f	
<i>S.balansae</i> Boiss.& Kotschy	1							•	bs,m	
<i>S.palustris</i> L.		1					1	•	ws.p	
<i>S.sylvatica</i> L.	1							•	f	
<i>S.trapezuntea</i> Boiss.	1							•	f	Colchic
<i>Teucrium nuchense</i> C.Koch	1							•	r,fr	
<i>Thymus collinus</i> Bieb.*	1							•	bs	Caucasian
<i>Th.grossheimii</i> Ronn.	1							•	r,bs,m	Georgian
<i>Th.transcaucasicus</i> Klok.	1							•	bs,r	Caucasian
Lauraceae Juss.										
<i>Laurus nobilis</i> L.	1							¥; ħ	f,sh	
Lentibulariaceae										
<i>Utricularia minor</i> L.							1	•	p	
<i>U.vulgaris</i> L.		1		1		1	1	•	p	
Linaceae Dum.										
<i>Linum hypericifolium</i> Salisb.	1							•	m	
<i>L.trigynum</i> L. (<i>L.gallicum</i> L.)	1							○	m	
Loranthaceae Juss.										
<i>Viscum album</i> L.	1							ħ	f	
Lythraceae St.-Hil										
<i>Lythrum salicaria</i> L.	1	1	1	1	1	1	1	•	f,s	

Malvaceae Juss.										
<i>Alcea transcaucasica</i> Iljin (Althea transcaucasica Iljin)	1							•	fr,f	Caucasian
<i>Hibiscus ponticus</i> Rupr.				1	1		1	•	mi	Colchic
<i>Kosteletzkya pentacarpos</i> (L.) Ledeb. (Hibiscus pentacarpos L.)							1	•	mi	
<i>Malva neglecta</i> Wallr.	1							○; ⊙; •	rd	
<i>M.sylvestris</i> L.	1	1						○; ⊙; •	rd	
Menianthaceae Dumort.										
<i>Menyanthes trifoliata</i> L.		1		1	1		1	•	mi	
Moraceae Link										
<i>Ficus carica</i> L. (F.colchica Grossh.)	1			1	1	1	1	¥; ħ	r,f	
<i>Morus alba</i> L.	1			1	1	1	1	¥	f	
<i>M.nigra</i> L	1						1	¥	f	
Myrtaceae Juss.										
<i>Eucalyptus cinerea</i> F.Muell. ex Benth.								¥	ro	
<i>Eucalyptus globulus</i> Labill.								¥	ro	
<i>Eucalyptus viminalis</i> Labill.								¥	ro	
Nymphaeaceae Salisb.										
<i>Nymphaea alba</i> L.							1	•	p	
<i>N.candida</i> C.Presl		1						•	p	
<i>N.colchica</i> (Woronow ex Grossh.) Kem.-Nath.		1		1	1		1	•	p	Colchic
<i>Nuphar lutea</i> (L.) Sm.		1		1		1	1	•	p	
Oleaceae Hoffmegg.&Link										
<i>Fraxinus excelsior</i> L.	1			1	1	1		¥	f	
<i>Ligustrum vulgare</i> L.	1			1		1	1	ħ	f	
<i>Phillyrea medwedewii</i> Sred, Osmanthus decorus(Boiss.&Ball.) Kas.	1							ħ	f	Ajara-Lazetian
Onagraceae Juss.										

<i>Chamaenerion angustifolium</i> (L.) Scop.(Ch. angustifolium (L.) Holub)	1							•	sh,m,hv	
<i>Circaea alpina</i> L.	1							•	sr,f	
<i>C.lutetiana</i> L.	1							•	f	
<i>Epilobum algidum</i> Bieb.	1							•	m	
<i>E.hirsutum</i> L.	1							•	f,sr	
<i>E.lanceolatum</i> Seb.& Mauri.	1							•	f,s	
<i>E.montanum</i> L.	1							•	f	
<i>E.palustre</i> L.		1					1	•	wm	
<i>E.prionophyllum</i> Hausskn.	1							•	s	
<i>Ludwigia palustris</i> (L.) Elliott							1	•	s,p	
Orobanchaceae Vent.										
<i>Orobanche owerinii</i> (G.Beck) G.Beck (O.crenata Forssk. var.owerinii G.Beck)	1							☉;•	m	
<i>O.raddeana</i> G. Bec.	1							•	f	
<i>O.ramosa</i> L.	1							○	al	
Oxalidaceae R.Br.										
<i>Oxalis acetosella</i> L.	1	1						•	f	
<i>Xanthoxalis corniculata</i> (L.) Small (Oxalis corniculata L.)	1							○;☉	rd	
Paeoniaceae Rudolphi										
<i>Paeonia caucasica</i> (Schipcz.) Schipcz. (P.kavachensis auct.)	1							•	f	Caucasian
<i>P.macrophylla</i> (Albov) Lomak.	1							•	f	Colchic
Papaveraceae Juss.										
<i>Chelidonium majus</i> L.	1							•	rd	
<i>Papaver fugax</i> Poir. (P.caucasicum Bieb.)	1							☉	r	
<i>P.monanthum</i> Trautv.	1							•	bs	
<i>P.persiceum</i> Lindl.	1							•	rd	
Parnassiaceae S.F.Gray										
<i>Parnassia palustris</i> L.	1							•	s,m	

Chrysosplenium dubium J.Gay ex Ser.; Ch.macrocarpum Chamisso.	1							•	f	
Phytolaccaceae R.Br.										
Phytolacca americana L.	1							•	al,f,sh	
Plantaginaceae Juss.										
Callitriche palustris L.			1	1	1		1	•	p	
<i>C.stagnalis</i> Scop.		1		1	1		1	•	p	
Plantago atrata Hoppe subsp.circassica Tzvel.	1							•	r	
<i>P.lanceolata</i> L.	1	1						•	m,ss	
<i>P.major</i> L.	1	1						•	m,rd	
<i>P.saxatilis</i> Bieb.	1							•	m,bs	
Polygalaceae R.Br.										
Polygala alpicola Rupr.	1							•	m,r	
<i>P.caucasica</i> Rupr.	1							•	f	Caucasian
Polygonaceae Juss.										
Aconogonon alpinum (All.) Schur (Polygonum alpinum All.; P.dshawachischwilii Charkev.)	1							•	m	
Bistorta carnea (C.Koch) Kom. (Polygonum carneum C.Koch; P.bistorta L.	1									
<i>subsp. carneum</i> (C.Koch) Coode&Cullen)	1							•	m	
Persicaria amphibia (L.) Delarbre (Polygonum amphibium L.							1	•	s,p	
<i>P.hydripiper</i> (L.) Spach (Polygonum hydripiper L.)	1	1					1	○	ms,s	
<i>P.lapathifolia</i> (L.) S.F.Gray (Polygonum lapathifolium L.;P.nodosa Pers.)	1							○	m,ms,s	
<i>P.aviculare</i> L.	1	1						○	rd,al,f	
Polygonum perfoliatum L.		1						○	ms,s	
<i>P.posumbu</i> Buch.-Ham. ex D. Don							1	○	ms,s	
<i>P.thunbergii</i> Siebold & Zucc.	1	1					1	○	s,wm	
Rumex acetosella L.	1	1					1	•	rd,al	
<i>R.alpestris</i> Jacq.	1							•	m	

<i>R.alpinus</i> L.	1							•	m	
<i>R.crispus</i> L.	1							•	al,rd	
Primulaceae Vent.										
<i>Anagallis arvensis</i> L.	1							o; ☉	rd	
<i>Androsace albana</i> Stev.	1							☉	m,bs	Caucasian
<i>A.armeniaca</i> Duby	1							☉	m,bs	
<i>A.intermedia</i> Ledeb.	1							☉	bs,r,m	Caucasian
<i>A.villosa</i> L.	1							•	bs,r	
<i>Cyclamen adzharicum</i> Pobed., (C.coum Mill.subsp.caucasicum (C.Koch) O.Schwart	1							•	f	Ajara- Lazetian
<i>Lysimachia verticillaris</i> Spreng.	1							•	f,sh	
<i>L. vulgaris</i> L.		1	1	1	1	1	1	•	m,s,p	
<i>Primula algida</i> Adams	1							•	m	
<i>P.auriculata</i> Lam.	1							•	m,p,ms,s	
<i>P.kusnetzovii</i> Fed.	1							•	m,sh	
<i>P.megaseifolia</i> Boiss.& Bal.ex Boiss.	1							•	f	Ajara- Lazetian
<i>P.pallasii</i> Lehm.	1							•	m,sh	
<i>P.pseudoelator</i> Kusn.	1							•	m,sh	Caucasian
<i>P.sibthorpii</i> Hoffmegg.	1							•	f	
<i>Samolus valerandii</i> L.							1	•	mi	
Pyrolaceae Dumort.										
<i>Pyrola media</i> Sw.	1							•	f,sh	
<i>P.minor</i> L.	1							•	f,sh	
<i>P.rotundifolia</i> L.	1							•	f	
Ranunculaceae Juss.										
<i>Aconitum confertiflorum</i> (DC.) Gayer	1							•	f,m	

<i>A. orientale</i> Mill.	1							•	m	
<i>A. nasutum</i> Fisch. ex Reichenb. (<i>A. brachynasum</i> Kem.-Nath.)	1							•	m	Caucasian
<i>Actaea spicata</i> L.	1							•	f	
<i>Anemonastrum narcissiflorum</i> (L.) Holub. (<i>Anemone narcissiflora</i> L.)	1							•	m	
<i>A. caucasica</i> (Rupr.) Holub (<i>Anemone caucasica</i> Willd.ex Rupr.)	1							•	f, fm	Caucasian
<i>Aquilegia olympica</i> Boiss. (<i>A. caucasica</i> (Ledeb.) Rupr.)	1							•	m	
<i>Buschia lateriflora</i> (DC.) Ovcz. (<i>Ranunculus lateriflorus</i> DC.)	1							○	s	
<i>Caltha polypetala</i> Hochst.	1							•	m	
<i>Clematis vitalba</i> L.	1							h	f	
<i>Delphinium dzavakhischwilii</i> Kem.-Nath.	1							•	hv	Caucasian
<i>D. flexuosum</i> Bieb.	1							•	m	Caucasian
<i>D. speciosum</i> Bieb.	1							•	m	
<i>Ficaria calthifolia</i> Reichenb.	1							•	m	
<i>F. popovii</i> A.P. Khokhr.	1							•	s	Ajara-Lazetian
<i>Helleborus caucasicus</i> A.Br. (<i>H. orientalis</i> auct.)	1							•	f, fr	Caucasian
<i>Pulsatilla albana</i> (Stev.) Bercht. & J. Presl.	1	1						•	m, bs	Caucasian
<i>P. aurea</i> (Somm. & Levier) Juz.	1							•	m, sh	Colchic
<i>P. violacea</i> Rupr.	1							•	m, bs	Caucasian
<i>Ranunculus brachylobus</i> Boiss. & Hohen.	1			1				•	m, s, f	
<i>R. bulbosus</i> L.	1	1					1	•	m	
<i>R. bushei</i> Boiss. (<i>R. astrantiifolius</i> (Rupr) Boiss. & Bal.)	1							•	m, r	Georgian
<i>R. grandiflorus</i> L. (<i>R. anemonifolius</i> DC., <i>R. elegans</i> C. Koch)	1							•	m	Caucasian
<i>R. capadocicus</i> Willd (<i>R. ampelophyllus</i> Somm. & Levier) .	1							•	f	
<i>R. chius</i> DC.	1							○	rd	
<i>R. muricatus</i> L.		1					1	○	ws	
<i>R. oreophilus</i> Bieb. (<i>R. acutilobus</i> Ledeb., <i>R. makaschwilii</i> Kem.-Nath.)	1	1						•	m, r	Georgian

<i>R.scleratus</i> L.		1					1	○	ws	
<i>Ranunculus trachycarpus</i> Fisch. & C.A.Mey. (<i>Ranunculus marginatus</i> d'Urv.)		1					1	○	ws	
<i>R.vermirrhizus</i> Khokhr.	1							•	m	
<i>Thalictrum foetidum</i> L.	1							•	bs,f	
<i>Th.triternatum</i> Rupr.	1							•	r,m	
<i>Trollius ranunculinus</i> (Smith) Stearn (<i>T.patulus</i> Salisb., <i>T.caucasicum</i> Stev.)	1							•	m	
Rhamnaceae Juss.										
<i>Frangula alnus</i> Mill.	1	1	1	1	1	1	1	¥;ħ	f,fr	
<i>Rhamnus imeretina</i> Booth.	1							ħ	f	Colchic
<i>Rh.microcarpa</i> Boiss.	1							ħ	r	
Rosaceae Juss.										
<i>Agrimonia eupatoria</i> L.	1							•	f	
<i>Alchemilla caucasica</i> Bus	1							•	m	
<i>A.dura</i> Bus.	1							•	bs	
<i>A.languida</i> Bus.	1							•	m	Caucasian
<i>A.obtegens</i> Juz.	1							•	m	
<i>A.persica</i> Rothm. (<i>A.oxysepala</i> Juz.)	1							•	m	
<i>A.retinervis</i> Bus.	1							•	sh,bs	
<i>A.sericea</i> Willd.	1							•	sh,bs	
<i>A.subsplendens</i> Bus.	1							•	m,r	
<i>A.tredecimloba</i> Bus.	1							•	sh,m	Colchic
<i>A.valdehirsuta</i> Bus.	1							•	m	
<i>Aruncus vulgaris</i> Rafin.	1							•	f	
<i>Cerasus avum</i> (L.) Moench	1							¥	f	
<i>Cotoneaster integerrimus</i> Medik.	1							ħ	bs	
<i>Crataegus macrophylla</i> Sarg.		1		1	1	1	1	ħ	sh	
<i>C. microphylla</i> K. Koch			1	1	1			ħ	sh	

Duchesnea indica (Andr.) Focke	1	1	1	1	1	1	1	•	m,f,rd	
Fragaria vesca L.	1	1				1	1	•	f	
<i>F. viridis</i> (Duch.) Weston	1							•	m,sh	
Geum latilobum Somm. & Levier	1							•	sh,hv	
<i>G. urbanum</i> L.	1	1						•	m	
Laurocerasus officinalis M. Roem.	1							ჲ;¥	f,sh	
Malus orientalis Uglitzk.	1					1		¥	f	
<i>M. sylvestris</i> L. (Mill.)							1	¥	f	
Potentilla adscharica Somm. & Levier	1							•	fm	
<i>P. brachypetala</i> Fisch. & C.A. Mey. ex Lehm.	1							•	r	Colchic
<i>P. crantzii</i> (Crantz) G. Beck ex Fritsch	1							•	r,m	
<i>P. divina</i> Albov	1							•	m,r	Colchic
<i>P. elatior</i> Willd. ex Schlecht.	1							•	sh,m	
<i>P. erecta</i> (L.) Raeusch.	1	1					1	•	m,f	
<i>P. lazica</i> Boiss. & Bal.	1							•	m	
<i>P. micrantha</i> Ramond. ex DC.	1							•	sh,f	
<i>P. nordmanniana</i> Ledeb.	1							•	sh,m	Colchic
<i>P. recta</i> L.	1							•	rd,m,mi	
<i>P. reptans</i> L.	1	1					1	•	rd,m	
<i>P. ruprechtii</i> Boiss.	1							•	m	Caucasian
<i>P. supina</i> L.		1					1	•	s,ws	
Prunus divaricata Ledeb.	1					1	1	¥;ჲ	f	
Pyrus balansae Decne	1							¥	f	
<i>P. caucasica</i> Fed.	1							¥;ჲ	f	Caucasian
Rosa boissieri Crep.	1							ჲ	sh	
<i>R. canina</i> L.	1							ჲ	fr	
<i>R. corymbifera</i> Borkh.	1							ჲ	fr	

<i>R. micrantha</i> Smith	1							h	sh,m	
<i>R. mollis</i> Smith (<i>R. villosa</i> L. subsp. <i>mollis</i> (Smith) R. Keller and Gamsx)	1							h	m,f	
<i>R. woronowii</i> Lonacz.	1							h	f	Georgian
<i>Rubus anatolicus</i> Focke							1	h	rd	
<i>Rubus buschi</i> Grossh. ex Sinjkova (<i>R. vulgatus</i> Arrhen. subsp. <i>buschii</i> Rozan.)	1							h	f,sh	
<i>R. caesius</i> L.	1							h	f,sh	
<i>R. candicans</i> Wiehe.	1							h	fr	
<i>R. canescens</i> DC. (<i>R. tomentosus</i> Borkh. nom. illegit.)	1							h	f	
<i>R. caucasicus</i> Focke	1							h	f,sh	Colchic
<i>R. discolor</i> Boiss.		1					1	h	sh	
<i>R. hirtus</i> Waldst. & Kit.	1	1					1	h	f,fr	
<i>R. moschus</i> Juz.	1							h	f	Colchic
<i>R. saxatilis</i> L.	1							h	f,sh	
<i>R. serpens</i> Weihe ex Lej. & Court.	1							h	f	
<i>Sibbaldia parviflora</i> Willd.	1							•	rd,r,m	
<i>Sorbus aucuparia</i> L. (<i>S. boissieri</i> C. K. Schneid.)	1							¥	f,sh	
<i>S. fedorovii</i> Zaikonn.	1							¥;h	f,r,fr	Caucasian
<i>S. subfusca</i> (Ledeb.) Boiss.	1							¥;h	f	Colchic
<i>S. colchica</i> Zinserl.	1							¥	f	Colchic
<i>S. migarica</i> Zinserl.	1							h	f	Georgian
<i>Spiraea japonica</i> L. fil.	1	1					1	h	f	
Cornaceae										
<i>Cornus mas</i> L.					1		1	h	f	
Rubiaceae Juss.										
<i>Asperula caucasica</i> Pobed. (<i>A. taurina</i> auct)	1							•	f,sh,m	
<i>A. prostrata</i> (Adams) C. Koch	1							•	bs,r	
<i>Cruciata laevipes</i> Opiz [<i>Galium cruciata</i> (L.) Scop.]	1							•	bs,r	

<i>Galium album</i> Mill. (G. erectum Huds)	1							•	r	
<i>G. humifusum</i> Bieb.(A.humifusa (Bieb.) Bess.)	1							•	sn,ss	
<i>G. odoratum</i> (L.)Scop.(Asperula odorata L.)	1							•	f	
<i>G. palustre</i> L.		1					1	•	ws, s	
<i>G. tricornutum</i> Dandy		1						•	ws, s	
<i>Sherardia</i> arvensis L.	1							○	m,rd,al	
Salicaceae Mirb.										
<i>Populus nigra</i> L.				1			1	¥	ro	
<i>P. tremula</i> L.	1							¥	f	
<i>Salix alba</i> L.; S.micans Anderss.[A.alba subsp.micans(Anderss.)Reich.fil.]	1			1	1	1	1	¥	f	
<i>S.apoda</i> Trautv.	1							ћ	f	
<i>S.caprea</i> L.	1			1	1	1	1	¥	f	
<i>S. cinerea</i> L.		1		1				ћ	f	
<i>S.caucasica</i> Anderss.	1							ћ	f,sh	Caucasian
<i>S.kikodseae</i> Goerz	1							ћ	m,f	Colchic
Sambucaceae Batsch ex Borkh.										
<i>Sambucus ebulus</i> L.	1			1				•	f,rd,sh	
<i>S. nigra</i> L.	1							ћ	f	
Santalaceae R.Br.										
<i>Thesium alpinum</i> L.	1							•	m,r,sh	
<i>Th. procumbens</i> C.A.Mey.	1							•	bs,r	
Saxifragaceae Juss.										
<i>Saxifraga cartilaginea</i> Willd.[S.paniculataMill. subsp.cartilaginea (D.AWilld.) Webb]	1							•	r	
<i>S. cymbalaria</i> L.	1							○	sr,f	
<i>S.exarata</i> Vill.	1							•	r	
<i>S.moschata</i> Wul.	1							•	r	

<i>S. pontica</i> Albov	1							•	r	Georgian
<i>S.repanda</i> Willd.ex Stern (<i>S.coriifolia</i> (Somm. & Levier) Grossh.)	1							•	r,fr	
<i>S.sibirica</i> L.(<i>S. mollis</i> Smith)	1							•	sh,bs	
Scrophulariaceae Juss.										
<i>Digitalis schischkinii</i> Ivanina (<i>D.ferruginea</i> L.)	1							•	f	Caucasian
<i>Euphrasia hirtella</i> Jord.ex Reut.	1							○	f,sh	
<i>E. pectinata</i> Ten.	1							○	m,sh	
<i>E. petiolaris</i> Wettst.	1							○	r,bs	
<i>Melamphyrum alboffianum</i> Beauverd	1							○	m,sh,bs	Colchic
<i>M.caucasicum</i> Bunge	1							○	m	Caucasian
<i>M.elatius</i> Reuter ex Soo	1							○	f,fr	
<i>M.stenophyllum</i> Boiss. [<i>M.arvense</i> subsp.elatius (Boiss.) Beauverd]	1							○	f,fr	
<i>Paederotella pontica</i> (Rupr.exBoss.) Kem-Nath. (<i>Veronica ruprechtii</i> Lipsky)	1							⌈	r	Colchic
<i>Pedicularis acmodonta</i> Boiss.(<i>P.comosa</i> var. <i>acmodonta</i> Boiss.)	1							•	m	
<i>P.atropurpurea</i> Nordm.	1							•	m	
<i>P.condensata</i> Bieb.	1							•	m,sh	
<i>P. nordmanniana</i> Bunge	1							•	m,sh	
<i>P.sibthorpii</i> Boiss. ; <i>P.caucassica</i> Bieb.	1							•	m	
<i>P. wilhelmsiana</i> Fisch.ex Bieb.	1							•	f;m	
<i>Rhamphicarpa medwedewii</i> Albov		1		1				○	m, wm	
<i>Rhinanthus minor</i> L.	1							○	m	
<i>Rh.pectinatus</i> (Behrend) Vass. (<i>Alectrolophus pectinatus</i> Behrend)	1							○	m	
<i>Rhynchocorys elephas</i> (L.) Griseb.; <i>Rh.stricta</i> (C.Koch) Albov	1							○	f,sh,m	
<i>Scrophularia chrysantha</i> Jaub. & Spach.	1							⊙	f,sh	
<i>S.ilwensis</i> C. Koch.	1							○	sh,m	
<i>S.lunariifolia</i> Boiss. et Bal.	1							⊙	rd,f	
<i>S.macrobotrys</i> Ledeb.	1							•	f	

<i>S.nodosa</i> L.	1							•	f,rd	
<i>S.olympica</i> Boiss.	1							•	bs,rd	
<i>S.rupestris</i> Bieb.ex Willd.	1							•	r	
<i>S.umbrosa</i> Dumort (<i>S. alata</i> auct.)	1							•	f	
Verbascum <i>adzharicum</i> Gritzenko	1							•	f,sh	Georgian
<i>V.alpigenum</i> C.Koch.	1							•	f,sh	
<i>V.gnaphalodes</i> Bieb.	1							⊙	sn	
<i>V.thapsus</i> L.	1	1						⊙	m	
Veronica <i>anagallis-aquatica</i> L.	1	1					1	•	s	
<i>V.armena</i> Boiss.	1							•	s	
<i>V.beccabunga</i> L.	1	1					1	•	s	
<i>V.denudata</i> Albov (<i>V. baranetzii</i> Bordz.)	1							•	bs,r	Colchic
<i>V.filiformis</i> Smith	1	1						○	f,rd	
<i>V.gentianoides</i> Vahl.	1							•	f,sh	
<i>V.hederifolia</i> L.	1							○	ss,r	
<i>V.monticola</i> Trautv.	1							•	s,r	Caucasian
<i>V.officinalis</i> L.	1							•	f,sh,m	
<i>V.peduncularis</i> Bieb. (<i>V. nigrieans</i> C.Koch)	1							•	f	
<i>V.persica</i> Poir.	1	1						○; ⊙	rd	
<i>V.polita</i> Fries. (<i>V. didyma</i> auct. vix Ten.)	1	1						○	rd	
Simaroubaceae DC.										
Solanaceae Juss.										
Atropa <i>caucasica</i> Kreyer [<i>A.bella-donna</i> L.subsp.caucasica (Kreyer) V.Avet].	1							•	f	Caucasian
Datura <i>stramonium</i> L.	1	1						○	rd	
Hyoscyamus <i>niger</i> L.	1							⊙	rd	
Physalis <i>alkekengi</i> L.	1							•	f,rd	
<i>Ph.ixocarpa</i> Brot.ex Hornem.	1			1		1		○	al,ss	

<i>Solanum nigrum</i> L.	1	1		1	1			○	al,ss	
<i>S. pseudocapsicum</i> L.		1						•	rd	
Staphyleaceae Lindl.										
<i>Staphylea pinnata</i> L.	1							h,¥	f	
Thymelaeaceae Juss.										
<i>Daphne albowiana</i> Woronow ex Pobed.	1							h	sh,m	
<i>D. glomerata</i> Lam.	1							h	sh,m	
<i>D. mezereum</i> L.	1							h	f	
<i>D. pontica</i> L.	1							h	f	
Tiliaceae Juss.										
<i>T. platyphyllos</i> Scop. subsp.caucasica (Rupr.) Loria]	1							¥	f	
Trapaceae										
<i>Trapa colchica</i> Albov				1		1	1	•	p	
<i>Trapa natans</i> Woronow							1	•	p	
<i>Trapa maleevii</i> Vassl.										
Ulmaceae Mirb.										
<i>Ulmus glabra</i> Huds.(U.elliptica C.Koch)	1			1	1	1	1	¥		
<i>U.scarba</i> Mill. [U.glabra Huds.subsp. scabra (Mill.) Dostal]	1							¥	f	
<i>Zelkova carpinifolia</i> (Pall.) K. Koch							1	¥	f	
Urticaceae Juss.										
<i>Urtica dioica</i> L.	1						1	•	rd,f	
Vacciniaceae S.F.Gray										
<i>Vaccinium arctostaphylos</i> L.	1	1		1			1	h	f,sh,mi	
<i>V.myrtillus</i> L.	1							h	f,sh	
<i>V.uliginosum</i> L.	1							h	m	
<i>V. vitis idaeae</i> L. [Rhodococum vitis idaeae (L.) Arv.]	1							h	m	
Valerianaceae Batsch										

Valeriana alliariifolia Adams	1							•	hv,f	
<i>V.colchica</i> Utkin	1							•	f,m	Colchic
<i>V.eriophylla</i> (Ledeb.) Utkin	1							•	m	
<i>V.saxicola</i> C.A. Mey.	1							•	bs	
<i>V.tiliifolia</i> Troitzk.	1							•	hv,f	
Valerianella dentata (L.) Poll. (V. mixta Dufr.)	1							○	al,rd	
<i>V.locusta</i> (L) Laterrade ;V. olitoria (L) Moench	1							○	fr,ss	
Verbenaceae J. St.-Hil.										
Verbena officinalis L.	1							•	rd	
Viburnaceae Rafin.										
Viburnum lantana L.	1							h	f,sh	
<i>V. opulus</i> L.	1	1		1	1	1	1	h	f	
<i>V. orientale</i> Pall.	1							h	f,sh	
Violaceae Batsch.										
Viola alba Bess. (V. scotophylla Jord.)	1							•	f	
<i>V. arvensis</i> Murr.	1	1		1	1	1	1	○	rd	
<i>V. oreades</i> Bieb. (V. altaica Ker- Gawl. var. oreades Kupffer)	1							•	m,sh	
<i>V. orthoceras</i> Ledeb.	1							•	m,sh	Colchic
<i>V. pyrenaica</i> Raimond ex DC.	1							•	m	
<i>V. sieheana</i> W. Beck.	1							•	f,sh,r	
<i>V. vespertina</i> Klok. (V. saxatilis Kupffer p.p. non F. W. Schmidt))	1							○	m,sh	Caucasian
Vitaceae										
<i>Vitis sylvestris</i> C.C.Gmel.	1						1	L	f,sh	
MONOCOTILEDONEAE										
Alismataceae L.										

<i>Alisma plantago-aquatica</i> L.	1			1			1	•	p, wm	
<i>Sagittaria platyphylla</i> (Engelm.) J.G.Sm.							1	•	p,s	
Alliaceae J.Agardh +										
<i>Allium kunthianum</i> Vved.	1							•	m,r	
<i>A.pseudostriatum</i> Albov (A.adzharicum M.Pop.; A. szovitsii auct.non Regel)	1							•	m,r	Ajara-Lazetian
<i>A.rotundum</i> L.	1							•	f,r,bs	
<i>A. schoenoprasum</i> L.	1							•	m,sh,r	
<i>A. ursinum</i> L.	1							•	f	
<i>A.ponticum</i> Misch.ex Grossh.	1							•	f,bs	Georgian
Amaryllidaceae J. ST.-Hil.										
<i>Galanthus krasnovii</i> A. Khokhr. (G.valentinae Panjut. ex Grossh. nom. Invalid.)	1							•	f	Colchic
<i>G.woronowii</i> Losinsk. (G. ikariae auct. p.p.)	1							•	f	Caucasian
<i>Leucojum aestivum</i> L.		1					1	•	s,wm	
Araceae Juss.										
<i>Acorus calamus</i> L.						1	1	•	s,p	
<i>Arum albispathum</i> Stev.ex Lebed. [A.italicum Mill. subsp. albispalum	1							•	s,p	
<i>Spirodela polyrrhiza</i> (L.) Schleid.				1			1	•	s,p	
Butomaceae Mirb.										
<i>Butomus umbellatus</i> L.							1	•	s,p	
Ceratophyllaceae										
<i>Ceratophyllum demersum</i> L.					1	1	1	•	p	
<i>C. submersum</i> L.					1		1	•	p	
Commelinaceae R.Br.										
<i>Commelina communis</i> L.	1	1					1	○	ss,al	
<i>Tradescantia virginiana</i> L.		1			1			○	rd	

Convallariaceae Horan.										
<i>Polygonatum glaberrimum</i> (C.Koch) A. Jelen. & Zernow]	1							•	f	
<i>P. multiflorum</i> (L.) All.	1							•	f	
<i>P. verticillatum</i> (L.) All. (Covallaria verticillata L.)	1							•	f	
Cyperaceae Juss.										
<i>Bulbostylis tenerrima</i> (Fisch. & C.A.Mey. ex Ledeb.) Palla		1					1	○	ss, wm,s	
<i>C. acutiformis</i> Ehrh.						1	1	•	ss, wm,s,mi	
<i>Carex elata</i> All.		1		1	1	1	1	•	ss, wm,s, mi	
<i>C. brevicollis</i> DC.	1							•	m,sh	
<i>C. caryophyllea</i> Latourr.	1							•	m	
<i>C. digitata</i> L.	1							•	f,fr	
<i>C. divulsa</i> Stokes	1							•	ss	
<i>C. hirta</i> L.		1						•	ss, wm,s	
<i>C. latifrons</i> V.Krecz.	1	1					1	•	f,sh	
<i>C. leporina</i> L.	1							•	s,wm	
<i>C. lasiocarpa</i> Ehrh.		1		1	1	1	1	•	s, wm	
<i>C. medwedewii</i> Leskov (C. aequivoca V.Krecz.)	1							•	m,sh	Caucasian
<i>C. micropodioides</i> V.Krecz. (C. pyrenaica auct.)	1							•	mi	
<i>C. pallescens</i> L.							1	•	mi	
<i>C. panicea</i> Burge ex Boott.						1	1	•	mi	
<i>C. pendula</i> Huds.	1	1				1		•	f	
<i>C. polyphylla</i> Kar. & Kir.	1							•	f,sh	
<i>C. pontica</i> Albov	1							•	m	
<i>C. remota</i> L.	1							•	f	
<i>C. riparia</i> Curt.					1	1	1	•	s, p	

<i>C. rostrata</i> Stokes					1	1	1	•	s, p	
<i>C.szowitsii</i> V.Krecz.	1							•	s	
<i>C.sylvatica</i> Huds.	1							•	f	
<i>C. vesicaria</i> L.	1						1	•	s,p,wm	
<i>Cyperus badius</i> Poir.		1					1	•	s,p,wm	
<i>C. difformis</i> L.							1	•	al	
<i>C. longus</i> L.		1						•	s,al	
<i>C. rotundus</i> L.		1					1	•	ss	
<i>Eleocharis palustris</i> (L.) Roem. & Schult.	1						1	•	s,wm	
<i>Fimbristylis annua</i> (All.)Roem.et Schult.							1	○	s, wm,mi	
<i>Juncellus serotinus</i> (Rottb.) C.B.Clarke		1					1	•	s,wm	
<i>Kyllinga gracillima</i> Miq.	1	1					1	•	al,rd	
<i>Pycreus flavescens</i> (L.) Beauv. ex Reichenb. (Cyperus flavescens L.)	1					1	1	○	s,p,sn	
<i>P. korshinskyi</i> (Meinsh.) V.I.Krecz.							1	○	s,p,sn	
<i>Rhynchospora alba</i> (L.) Vahl		1	1	1			1	•	mi	
<i>R. caucasica</i> Palla		1	1	1			1	•	mi	Caucasian
<i>Scirpus triqueter</i> Godr. (Schoenoplectus litoralis (Schrud.) Palla)		1					1	•	s,p	
<i>S.sylvaticus</i> L.	1							•	s, wm	
<i>Schoenoplectus juncooides</i> (Roxb.) Palla			1	1				•	s, wm	
<i>S. lacustris</i> (L.) Palla							1	•	s, p	
<i>S. mucronatus</i> (L.) Palla		1						•	s, p	
<i>S.triqueter</i> (L.) Palla							1	•	s, p	
Dioscoreaceae R.Br.										
<i>Tamus communis</i> L.	1							•	f	
Hyacinthaceae Batsch										
<i>Muscari sosnowskyi</i> Schchian	1							•	r,sh	
<i>M.szovitsianum</i> Baker (M.neglectum sensu Losinsk.)	1							•	m,bs,sh	

<i>Ornithogalum balansae</i> Boiss. ; <i>O.schmalgausenii</i> Albov	1							•	m,f	
<i>O.woronowii</i> Krasch.	1							•	ss,f	Colchic
<i>Pseudomuscari paradoxum</i> (Fisch.& C.A. Mey.) Garbari [Bellevalia paradoxa										
<i>Scilla monanthos</i> C. Koch	1							•	f,m	
<i>S.winogradowii</i> Sosn.	1							•	m,f,sh	Colchic
Hydrocharitaceae Juss.										
<i>Egeria densa</i> Planch.				1			1	•	p	
<i>Hydrocharis morsus-ranae</i> L.				1	1		1	•	p	
Iridaceae Juss.				1						
<i>Crocus scharojanii</i> Rupr. Var. flavus Lipsky]	1							•	m	
<i>C.speciosus</i> Bieb.	1							•	m	
<i>lazica</i> (Albov) Dykes	1							•	f	Colchic
<i>I. pseudocorus</i> L.		1					1	•	wm, s	
<i>Sisyrinchium angustifolium</i> Mill.	1	1					1	•	m,sn,f	
Juncaceae Juss.										
<i>Juncus acutus</i> L.		1					1	•	m,s,mi	
<i>J.alpigenus</i> C.Koch	1							•	m	
<i>J.articulatus</i> L. (<i>J. lampocarpus</i> Ehrh.ex Hoffm.)	1							•	s	
<i>J. bufonius</i> L.	1	1					1	○	s	
<i>J.effusus</i> L.	1	1					1	•	f	
<i>J. lampocarpus</i> Ehrh. Ex Hoffm. (<i>Juncus articulatus</i> L.)	1						1	•	s,p	
<i>J.maritimus</i> Lam.				1					m	
<i>Luzula forsteri</i> (Smith) DC.(<i>Juncus forsteri</i> Smith)	1			1			1	•	m,f,sh	
<i>L. campestris</i> (L.) DC. (<i>Juncus campestris</i> L.; <i>Luzula subpilosa</i> Gilib.)	1							•	m	
<i>L.multiflora</i> (Ehrh.) Lej.	1							•	f	
<i>L.spicata</i> (L.) DC. (<i>Juncus spicatus</i> L.)	1							•	m,f	
Lemnaceae S.F.Grey										

<i>Lemna minor</i> L.	1			1	1		1	•	s, p	
Liliaceae Juss.										
<i>Fritilaria dzhabavae</i> A.Khokhr.	1							•	m	Colchic
<i>F. latifolia</i> L.	1							•	m	Caucasian
<i>Gagea alexeenkoana</i> Misch.	1							•	m,bs	Caucasian
<i>Lilium szovitsianum</i> Fisch.& Ave-Lall.[L.monadelphum Bieb. var.szovtsianum (Fisch.&Ave-Lall.) Elwes]	1							•	f,sh,hv	Colchic
<i>Lilium ponticum</i> C.Koch (L.carniolium Bernh.ex C.Koch subsp.ponticum)	1							•	m,r	
<i>Lloydia serotina</i> (L.) Reichenb. (Bulbocodium serotinum L.)	1							•	m	
Melanthiaceae Batsch										
<i>Narthecium balansae</i> Briq. (N. caucasicum Misch.)	1							•	f	
Orchidaceae Juss.										
<i>Anacamptis pyramidalis</i> (L.) Rich.	1							•	m,sh	
<i>Cephalanthera damadonium</i> (Mill.) Druce (C.grandiflora S.F.Gray)	1							•	f	
<i>C.longifolia</i> (L.) Fritsch.	1							•	f	
<i>Coeloglossum viride</i> (L.) C.Hartm.	1							•	m,sh,f	
<i>Dactylorhiza amblyoloba</i> Nevski ; O.triphylla C.Koch]	1							•	f,m	
<i>D.euxina</i> (Nevski) Czer. [Orchis euxina Nevski,O.caucasica (Klinge) Lipsky]	1							•	m,wm	
<i>D. flavescens</i> (C.Koch) Holub (Orchis flavescens C.Koch)	1							•	f,sh	
<i>Orchis sanasunitensis</i> (Fleischm.)	1							•	m	
<i>Epipactis helleborine</i> (L.) Crantz [E.latifolia (L.) All.]	1							•	m,sh	
<i>Epipactis palustris</i> L.						1		•	m,sh,mi	
<i>Gymnadenia conopsea</i> (L.) R.Br.	1							•	m,sh	
<i>Neottia nidus-avis</i> (L.) Rich.	1							•	f	
<i>Orchis pallens</i> L.	1							•	m	
<i>O. picta</i> Loisel.	1							•	m	
<i>Spiranthes amoena</i> (M.Bieb.) Spreng. (Spiranthes sinensis (Pers.) Ames)		1	1				1	•	m, sh,mi	

<i>Traunsteinera sphaerica</i> (Bieb.) Schlechter (Orchis sphaerica Bieb.)	1							•	m	
Poaceae Barnhart										
<i>Aegilops cylindrica</i> Host	1	1		1				○	ss,rd	
<i>Agropyron caninum</i> (L.) P.Beauv.		1						•	m	
<i>Agrostis alba</i> L. <i>Poa nemoralis</i> L.		1						•	m,mi	
<i>A. gigantea</i> Roth. [<i>A.alba</i> subsp. <i>gigantea</i> (Roth.) Jir.]	1						1	•	f,m,al	
<i>A.planifolia</i> C.Koch [<i>A. vinealis</i> subsp. <i>planifolia</i> (C.Koch) Tzvel.]	1							•	m	
<i>A.tenuis</i> Sibth. (<i>A.vulgaris</i> With.; <i>A.capillaris</i> auct.)	1							•	m,sh	
<i>Aira elegans</i> Willd. ex Gaudin. (<i>A.capillaris</i> Host.)	1						1	○	ss,sh,sn	
<i>Alopecurus aequalis</i> Sobol.	1							○	s	
<i>A.ponticus</i> C.Koch (<i>A.sericeus</i> Albov)	1							•	m,r,bs	
<i>Andropogon virginicus</i> L.		1					1	•	ss,rd,mi	
<i>Anthoxanthum amarum</i> Brot.		1		1		1	1	•	ss,rd	
<i>A. odoratum</i> L.	1	1					1	•	ss,m,sh	
<i>Arthraxon hispidus</i> (Thunb.) Makino	1						1	○	ss, rd	
<i>Bellardiachloa polychroa</i> (Trautv.) Roschev.; [<i>Poa polychroa</i> (Trautv.) Grossh.]	1							•	m	
<i>Bromus adjaricus</i> Somm.& Levier ; <i>Zerna adjarica</i> (Somm.&Levier) Nevski]	1							•	m	
<i>B. japonicus</i> Thunb.	1	1					1	○	rd, sh	
<i>B. tectorum</i> L.		1					1	○	ss	
<i>B. variegata</i> (Bieb.) Holub [<i>Bromus variegatus</i> Bieb.; <i>Zerna variegata</i> (Bieb.) Nevski]	1							•	m,bs	
<i>B.variegata</i> (Bieb.) Holub (<i>Bromus variegatus</i> subsp. <i>variegata</i> Steud.)	1							•	m	
<i>B. villosula</i> (Steud.) Holub [<i>Bromus variegatus</i> subsp. <i>villosula</i> Steud.;	1							•	m	
<i>Calamagrostis arundinacea</i> (L.) Roth.	1	1					1	•	m,sh	
<i>C.epigeios</i> (L.) Roth.	1	1						•	ss	
<i>Catabrosa aquatica</i> (L.) Beauv. (<i>Aira aquatica</i> L.)	1	1					1	•	s	

Cladium <i>mariscus</i> (L.) Pohl		1		1	1	1	1	•	mi	
Coix <i>lacryma-jobi</i> L.								○	m,al	
Cynodon <i>dactylon</i> (L.) Pers.	1	1						•	ss,al	
Cynosurus <i>cristatus</i> L.	1							•	f,al	
<i>C.echinatus</i> L.	1							○	f,m,sh	
Dactylis <i>glomerata</i> L.	1	1					1	•	f,m,sh	
Deschampsia <i>cespitosa</i> (L.) Beauv. (D. biebersteiniana Schult.; Aira cespitosa L.)	1							•	m,s,wm	
Digitaria <i>sanguinalis</i> (L.) Scop. [D.vulgaris (Schrud.) Bess.]	1	1						○	al,sn	
<i>D. ciliaris</i> (Retz.) Koeler		1						○	al,sn	
<i>D. ischaemum</i> (Schreb.) Muhl.		1						○	al,sn	
<i>D.violascens</i> Link [D.chinensis (Retz.) A.Camus ;Paspalum chinense Nees]	1	1						○	ss,sn	
Echinochloa <i>crusgalli</i> (L.) Beauv.s.l.	1	1						○	ss,al	
<i>E.crusgalli</i> var.breviaristata Doll.	1							○	ss	
<i>E.crusgalli</i> var.lingiseta Doll.	1							○	ss	
<i>E.crusgalli</i> var.caudata (Roshev.) Tzvel.	1							○	ss	
Eleusine <i>indica</i> (L.) Gaertn.	1	1					1	•	rd	
<i>E.tristachya</i> (Lam.) Lam.		1					1	•	rd	
Elymus <i>caninus</i> (L.) L. (Agriopyrum caninum (L.) Pall. ex Hegi)							1	•	rd	
Eragrostis <i>minor</i> Host.		1						•	rd	
<i>E. pilosa</i> (L.) P.Beauv.		1					1	•	rd	
Erianthus <i>ravennae</i> (L.) P.Beauv. (Saccharum ravennae (L.) L.)		1					1	•	rd	
Eriophorum <i>vaginatum</i> L.	1							•	s	
Festuca <i>suipina</i> Schur.]	1							•	m,r	
<i>F.drymeja</i> Mert.& Koch (F.montana Bieb.)	1							•	f,sh	
<i>F.gigantea</i> (L.) Vill. (Bromus giganteus L.)	1							•	f,sh	
<i>F.inarmata</i> Schur (F.amethystina L.s.l.)	1							•	f,fr	

<i>F.pratensis</i> Huds. (F.elatior p.p.)	1							•	m,f,sh	
<i>F.rupicola</i> Heuff. [F. sulcata (Hack.) Nym. p.p.]	1							•	m	
<i>F.varia</i> Haenke subsp.woronowii (Hack.) Tzvel. (F.woronowii Hack.)	1							•	m,sh	
Glyceria <i>arundinacea</i> (Bieb.) Kunth (Poa arundaceae Bieb.)	1							•	s	
Helictotrichon <i>asiaticum</i> (Roshev.) Grossh.]	1							•	m	Caucasian
<i>H.armeniicum</i> (Schischk.) Grossh. (Avena armeniaca Schischk.)	1							•	m	
<i>H.pubescens</i> (Huds.) Bess.	1							•	m,sh	
Hemarthria <i>altissima</i> (Poir.) Stapf. & C.E.Hubb. [H.fasciculata (Lam.) Kunth]	1							•	ss	
Holcus <i>lanatus</i> L.	1	1		1	1	1	1	•	f,m,mi	
<i>H. mollis</i> L.				1	1	1	1	•	f,m,mi	
europaeus L.; Cuviera europae (L.) Koel.]??	1							•	f	
<i>H. leporinum</i> Link		1						•	m	
Hordeum <i>violaceum</i> Boiss.& Huet	1							•	m	
Koeleria <i>albovii</i> Domin.[K.caucasica (Domin.) B.Fedtsch.p.p.quoad nomen]	1							•	m,sh	Colchic
<i>K. phleoides</i> (Vill.) Pers.		1						○	rd,al	
Lasiagrostis <i>bromoides</i> Nevski & Roshev.]	1							•	f	
Leersia <i>oryzoides</i> (L.) Sw.								○	rd,al	
Lolium <i>loliaceum</i> (Bory & Chaub.) Hand.-Mazz.								•	ss, rd	
Microstegium <i>imberbe</i> (Nees ex Steud.) Tzvelev (Microstegium vimineum (Trin.) A.Camus)	1	1					1	○	rd,al	
<i>M. japonicum</i> (Miq.) Koidz.	1	1					1	○	rd,al	
Milium <i>schmidtianum</i> C.Koch	1							•	m,sh,f	Caucasian
Miscanthus <i>sinensis</i> Andersson	1	1						•	m,sh	
Molinia <i>litoralis</i> Host		1	1	1	1	1	1	•	mi	
Nardus <i>stricta</i> L. (N. glabriculum Sakalo)	1							•	m	
Oplismenus <i>burmanni</i> (Retz.) P.Beauv.								•	m	
<i>O. undilatifolium</i> (Ard.) Beauv.	1							•	f	

<i>Colpodium colchicum</i> (Albov) Woronow]	1							•	m,r	Caucasian
<i>Panicum dichotomiflorum</i> Michx.		1						•	ss,rd	
<i>P. lanuginosum</i> Elliott (<i>Panicum acuminatum</i> Sw.)		1						•	ss,rd	
<i>Paspalum dilatatum</i> Poir.	1						1	•	ss,al	
<i>P. paspalodes</i> (Michx.) Scribn. (<i>Paspalum distichum</i> L.)	1	1					1	•	ss,al	
<i>P. thunbergii</i> Kunth ex Steud.		1					1	•	ss,al	
<i>Phalaroides arundinacea</i> (L.) Rauschert (<i>Phalaris arundinacea</i> L.)	1	1						•	ss,al	
<i>Phleum alpinum</i> L.	1							•	m,bs	
<i>P. paniculatum</i> Huds.		1						•	m	
<i>Ph. phleoides</i> (L.) Karst. (<i>P.boehmeri</i> .Wib.; <i>Phalaris phleoides</i> L.) .	1	1						•	f,fr	
<i>Ph. pratense</i> L. [<i>P.pratense</i> subsp.nodosum (L.) Areang.]	1							•	m	
<i>Phragmites australis</i> (Cav.) Trin. ex Steud.			1	1	1	1	1	•	s,p	
<i>Poa annua</i> L.	1	1					1	•	Ms,mi	
<i>P.alpina</i> L.	1							•	m	
<i>P. bulbosa</i> L.; <i>P.crispa</i> Thuill. [<i>P.bulbosa</i> subsp.vivipara (Koel.) Arcang.]	1	1						•	Fr,mi	
<i>P. compressa</i> L.		1					1	•	m,sh,f	
<i>P.iberica</i> Fisch.&C.A. Mey.	1							•	m,sh,f	
<i>P.nemoralis</i> L.	1							•	f,m,fr	
<i>P.supina</i> Schrad.	1							○	m,ms	
<i>P.trivialis</i> L.	1	1						•	m	
<i>Polypogon semiverticillatus</i> (Forssk.) Hyl. (<i>Polypogon viridis</i> (Gouan) Breistr.)		1						•	m	
<i>Rostraria cristata</i> (L.) Tzvel. (<i>Koeleria phleoides</i> (Vill.) Pers.)	1	1						○	fr	
<i>Scleropoa rigida</i> (L.) Griseb.	1	1						○	f	
<i>Setaria faberi</i> R.A.W.Herrm.		1						○	al,rd	
<i>S.intermedia</i> Roem. & Schult.		1						○	al,rd	
<i>S. glauca</i> (L.) P.Beauv. (<i>Pennisetum glaucum</i> (L.) R.Br.)	1	1						○	al,rd	

<i>S. viridis</i> (L.) P.Beauv.	1							○	al,rd	
<i>Sorghum halepense</i> (L.) Pers.		1					1	•	al,rd	
<i>Sporobolus fertilis</i> (Steud.) Clayton								○	al,rd	
<i>Tragus racemosus</i> (L.) All.		1						○	sn,rd	
<i>Trisetum flavescens</i> (L.) Beauv. (T.pratense Pers.)	1							•	m,f	
<i>Vulpia myuros</i> (L.) C.C.Gmel.		1						•	m,rd	
<i>Zea mays</i> L.								○	al	
Potamogetonaceae Dumort.										
<i>Potamogeton alpinus</i> Balbis.	1							•	p	
<i>P. filiformis</i> Pers. (Stuckenia filiformis (Pers.) Börner)							1	•	p	
<i>P. natans</i> L.	1	1		1			1	•	p	
<i>P. pectinatus</i> L. (Stuckenia pectinata (L.) Börner)			1	1	1	1	1			
Ruscaceae Hutch.										
<i>Ruscus colchicus</i> P.F.Yoe (R.hypophyllum L. auct.)	1							•	Sh	
<i>R. ponticus</i> Woronow ex Grossh. (R. aculeatus auct.)	1			1	1		1	•	f,sh	
Smilacaceae Vent.										
<i>Smilax excelsa</i> L.	1	1	1	1	1	1	1	L	f,sh	
Thyphaceae Juss.										
<i>Sparganium neglectum</i> Beeby (Sparganium erectum subsp. neglectum (Beeby) K.Richt.)		1	1		1		1	•	s,p	
<i>Typha angustifolia</i> L.			1	1	1	1	1	•	s,p	
<i>T. latifolia</i> L.			1	1	1	1	1	•	s,p	
<i>T. minima</i> Hoffm. (Typha laxmannii Lepech.)						1	1	•	s,p	
Trilliaceae Lindl.										
<i>Paris incompleta</i> Bieb.	1							•	f,sh	

Appendix 3: Lists of fauna of the Colchic Rainforests and Wetlands

Appendix 3.1: Mammals

Appendix 3.1.a: Mammals excl. bats

Latin name	Georgian name	English name	Caucasus Endemic	Georgian Red List	IUCN Red List	Kolkheti	Kobuleti	Mtiral/ Kintrishi
<i>Apodemus flavicollis ponticus</i> ²	პონტოს ყვითელყელა თაგვი	Pontic Yellow-necked mouse			LC	X ¹	X	X ¹
<i>Apodemus mystacinus</i> ¹	ფართოკბილა თაგვი	Eastern broad-toothed field mouse			LC	X	X	X ¹
<i>Apodemus uralensis</i> ¹	მცირე თაგვი	Pigmy field mouse			LC	X ¹	X ¹	X ¹
<i>Apodemus whiterbyi</i> ¹	სტეპის თაგვი	Steppe field mouse			LC	X ¹	X	X ¹
<i>Arvicola amphibius</i> ¹	წყლის მემინდვრია	European water vole			LC	X	X	X
<i>Canis aureus</i> ¹	ტურა	Golden jackal			LC	#	#	X ⁴
<i>Canis lupus</i> ¹	მგელი	Wolf			LC			#
<i>Capreolus capreolus</i> ¹	შველი	Roe deer			LC	X ²		X ²
<i>Chionomys roberti</i> ¹	რობერტის მემინდვრია	Robert's snow vole	✓		LC			X ¹
<i>Crocidura suaveolens gueldenstaedtii</i> ¹	მცირე კბილეთრა	lesser shrew	endemic subspecies		LC	X ¹	X ¹	X ¹
<i>Crocidura leucodon</i> ¹	თეთრმუცელა კბილეთრა	bicolored shrew			LC	X ¹	X ¹	X

<i>Dryomys nitedula</i> ¹	ტყის ძილგულა	Forest dormouse			LC	X ¹	X ¹	X ¹
<i>Erinaceus concolor</i> ¹	სამხრეთული თეთრგულა ზღარბი	Southern white-breasted hedgehog			LC	X ¹	X ¹	X ¹
<i>Felis sylvestris</i> ¹	გარეული კატა	Wild cat			LC	X	X	X
<i>Glis glis</i> ¹	დიდი ძილგულა	Edible dormouse			LC	X ¹	X ¹	X ¹
<i>Lepus europaeus</i> ¹	კურდღელი	European hare			LC	X	X ¹	X ¹
<i>Lutra lutra</i> ¹	წავი	European otter			NT	X ³	X	X
<i>Lynx lynx</i> ¹	ფოცხვერი	European lynx		CR	LC	X ³		X ³
<i>Martes foina</i> ¹	ქვის კვერნა	Stone marten			LC	X	X	X
<i>Martes martes</i> ¹	ტყის კვერნა	European pine marten			LC	X	X	X
<i>Meles meles</i> ¹	მაჩვი	European Badger			LC	X	X	X
<i>Microtus majori</i> ¹	ბუჩქნარის მემინდვრია	large pine vole			LC	X ¹	X ¹	X ¹
<i>Mus musculus</i> ¹	სახლის თაგვი	House mouse			LC	X ¹	X ¹	X ¹
<i>Mus macedonicus</i> ¹	მაკედონური თაგვი	Macedonian mouse			LC	X ¹	X ¹	X ¹
<i>Neomys teres</i> ¹	ამიერკავკასიური წყლის ზიგა	Transcaucasian water shrew	✓		LC	X ¹	X ¹	X ¹
<i>Prometheomys schaposchnikovi</i> ¹	პრომეთეს მემინდვრია	Long-clawed mole-vole	✓	VU	NT			X ¹
<i>Rattus norvegicus</i> ¹	რუხი ვირთაგვა	House rat			LC	X ¹	X ¹	X ¹
<i>Rattus rattus</i> ¹	შავი ვირთაგვა	Black rat			LC	X ¹	X ¹	X ¹
<i>Rupicapra rupicapra</i> ¹	არჩვი	Chamois		EN	LC			X ⁴

<i>Sciurus anomalus</i> ¹	კავკასიური ციყვი	Caucasian squirrel	✓	VU	LC			X ¹
<i>Sciurus vulgaris</i> ¹	წითელი ციყვი	European squirrel			LC	X	X	X ¹
<i>Sorex raddei</i> ¹	რადეს ზიგა	Radde's shrew	✓		LC	X ¹	X ¹	X ¹
<i>Sorex satunini</i> ¹	კავკასიური ზიგა	Caucasian shrew	✓		LC	X ¹	X ¹	X ¹
<i>Sorex volnuchini</i> ¹	პატარა ზიგა	Caucasian pigmy shrew	✓		LC	X ¹	X ¹	X ¹
<i>Sus scrofa</i> ¹	გარეული ღორი	Wild boar			LC			#
<i>Talpa caucasica</i> ¹	კავკასიური თხუნლეა	Caucasian mole	✓		LC			X ¹
<i>Ursus arctos</i> ¹	მურა დათვი	Brown bear		EN	LC			#
<i>Vulpes vulpes</i> ¹	მელა	Red fox			LC			X

1- taxonomy according to www.redlist.org

2 - taxonomy according to www.catalogueoflife.org

X - within the area of occupancy

(X) - within the area of occurrence

- personal observation

X¹ - Bukhnikashvili & Kandaurov 2002*

X² - Kandaurov, 2014

X³ - www.biodiversity-georgia.net

Within the extent of occurrence - according to IUCN categories/ criteria

Within the area of occupancy - within the extent of occurrence and habitats present typical for this species

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Appendix 3.1.b: Bats

Bats of the Colchic Rainforests and Wetlands. (Source: Natradze, Input to Garstecki et al. 2017)

Latin name	IUCN RL category	Ispani	Mtirala-Kintrishi	Kolkheti National Park
<i>Rhinolophus hipposideros</i>		X	X	X
<i>Rhinolophus euryale</i>			X	
<i>Rhinolophus ferrumequinum</i>		X	X	X
<i>Barbastella barbastellus</i>			X	
<i>Myotis blythii</i>		X	X	
<i>Myotis daubentonii</i>		X	X	X
<i>Myotis emarginatus</i>			X	
<i>Myotis nattereri</i>		X	X	X
<i>Myotis mystacinus</i>			X	X
<i>Myotis brandtii</i>			X	X
<i>Myotis bechsteinii</i>				
<i>Myotis aurascens</i>		X	X	X
<i>Myotis alcathoe</i>			X	X
<i>Nyctalus noctula</i>			X	X
<i>Nyctalus leisleri</i>			X	X
<i>Nyctalus lasiopterus</i>	VU		X	
<i>Eptesicus serotinus</i>		X	X	X

<i>Eptesicus nilsonii</i>				
<i>Pipistrellus pipistrellus</i>		X	X	X
<i>Pipistrellus pygmaeus</i>		X		
<i>Pipistrellus nathusii</i>		X	X	X
<i>Pipistrellus kuhlii</i>		X	X	X
<i>Hypsugo savii</i>			X	X
<i>Plecotus auritus</i>			X	X
<i>Plecotus macrobullaris</i>			X	
<i>Vespertilio murinus</i>			X	X
<i>Miniopterus schreibersii</i>			X	X

Appendix 3.2: Avifauna

Appendix 3.2.a: General bird list

Note that no separate dataset on avifauna is available for Kobuleti Protected Areas, including Ispani nominated component area. The avifauna of this area is a subset of (and similar to) that of the nominated component areas within Kolkheti National Park. The nominated component areas of Kolkheti National Park are treated as one unit in this analysis. (Source: Rajebashvilil, input to Garstecki et al. 2017)

Species seasonal life history at a given site:

BB = Breeding bird; breeder, absent during non-breeding period.

Cas = Casual; recorded irregularly; less expected because normal range is far away.

CR = Critically Endangered.

EN = Endangered.

FB = Former breeder.

IUCN =the species global status (by IUCN -The World Conservation Union).

LC = Least Concern.

M = Migrant; bird of passage; present primarily in fall and spring.

ND = Not defined; found but its status not known yet.

NT = Near Threatened.

RLG =the species national status by Red List of Georgia.

VU = Vulnerable.

WV = Winter visitor; non-breeder, present in late fall, winter and early spring.

YR-R = Year-round resident; breeder, present throughout the year.

YR-V = Year-round visitor; non-breeder, present throughout the year.

		IUCN/RLG for all sites		Sites within Kolkheti NP	Mtiral - Kintrishi
Species scientific name	Species English name	IUCN	RLG	Occurrence	Occurrence
<i>Gavia stellata</i>	Red-throated Diver (or Loon)	LC		WV	
<i>Gavia arctica</i>	Black-throated (Arctic) Diver (or Loon)	LC		WV	
<i>Podiceps cristatus</i>	Great Crested Grebe	LC		YR-V	
<i>Podiceps grisegena</i>	Red-necked Grebe	LC	VU	M	
<i>Podiceps auritus</i>	Horned (or Slavonian) Grebe	VU		Cas	

<i>Podiceps nigricollis</i>	Black-necked Grebe	LC		WV	
<i>Tachybaptus ruficollis</i>	Little Grebe	LC		YR-R	
<i>Puffinus yelkouan</i>	Mediterranean (Yelkouan) Shearwater	VU		YR-V	
<i>Pelecanus onocrotalus</i>	Great White Pelican	LC	VU	M	
<i>Pelecanus crispus</i>	Dalmatian Pelican	VU	EN	M	M
<i>Phalacrocorax carbo</i>	Great Cormorant	LC		YR-V	
<i>Microcarbo pygmaeus</i>	Pygmy Cormorant	LC		M	
<i>Phalacrocorax aristotelis</i>	Shag	LC		Cas	
<i>Ardea cinerea</i>	Grey Heron	LC		YR-V	M
<i>Ardea purpurea</i>	Purple Heron	LC		M	M
<i>Ardea alba</i>	Great White Egret	LC		YR-V	M
<i>Egretta garzetta</i>	Little Egret	LC		YR-V	M
<i>Bubulcus ibis</i>	Cattle Egret	LC		M	M
<i>Ardeola ralloides</i>	Squacco Heron	LC		M	M
<i>Nycticorax nycticorax</i>	Black-crowned Night-Heron	LC		M	M
<i>Ixobrychus minutus</i>	Little Bittern	LC		BB	M
<i>Botaurus stellaris</i>	Great Bittern	LC		M	M
<i>Platalea leucorodia</i>	Eurasian Spoonbill	LC		M	
<i>Plegadis falcinellus</i>	Glossy Ibis	LC		M	
<i>Ciconia ciconia</i>	White Stork	LC	VU	M	M
<i>Ciconia nigra</i>	Black Stork	LC	VU	M	M
<i>Phoenicopterus ruber</i>	Greater Flamingo	LC		Cas	M
<i>Cygnus olor</i>	Mute Swan	LC		M;WV	
<i>Cygnus cygnus</i>	Whooper swan	LC		M;WV	
<i>Cygnus columbianus</i>	Tundra Swan	LC		WV	
<i>Anser anser</i>	Gray Lag Goose	LC		M	
<i>Anser erythropus</i>	Lesser White-fronted Goose	VU	EN	M	

<i>Anser albifrons</i>	Greater White-fronted Goose	LC		M	
<i>Tadorna tadorna</i>	Common Shelduck	LC		M	
<i>Tadorna ferruginea</i>	Ruddy Shelduck	LC	VU	M	
<i>Anas platyrhynchos</i>	Mallard	LC		M;WV	
<i>Mareca strepera</i>	Gadwall	LC		M;WV	
<i>Mareca penelope</i>	Eurasian Wigeon	LC		M,WV	
<i>Anas crecca</i>	Common Teal	LC		M,WV	
<i>Spatula querquedula</i>	Garganey	LC		M	
<i>Anas acuta</i>	Northern Pintail	LC		M	
<i>Spatula clypeata</i>	Northern Shoveler	LC		M	
<i>Netta rufina</i>	Red-crested Pochard	LC		M	
<i>Aythya fuligula</i>	Tufted Duck	LC		M;WV	
<i>Aythya marila</i>	Greater Scaup	LC		M,WV	
<i>Aythya ferina</i>	Common Pochard	VU		M,WV	
<i>Aythya nyroca</i>	Ferruginous Pochard	NT		M	
<i>Melanitta fusca</i>	White-winged (or Velvet) Scoter	VU	EN	WV	
<i>Bucephala clangula</i>	Common Golden-eye	LC		M,WV	
<i>Mergus merganser</i>	Common Merganser	LC		M,WV	
<i>Mergus serrator</i>	Red-breasted Merganser	LC		M,WV	
<i>Mergellus albellus</i>	Smew	LC		M,WV	
<i>Oxyura leucocephala</i>	White-Headed Duck	EN	EN	WV, BB?	
<i>Pandion haliaetus</i>	Osprey	LC	?	M	M
<i>Haliaeetus albicilla</i>	White-tailed Eagle	LC	EN	M	M
<i>Milvus milvus</i>	Red Kite	NT		Cas	Cas
<i>Milvus migrans</i>	Black Kite	LC		M	M
<i>Circaetus gallicus</i>	Short-toed Snake-Eagle	LC	?	M	M
<i>Accipiter brevipes</i>	Levent Sparrowhawk	LC	VU	M	M

<i>Accipiter nisus</i>	Eurasian Sparrowhawk	LC		YR-R	YR-R, M
<i>Accipiter gentilis</i>	Northern Goshawk	LC		M	YR-R, M
<i>Buteo buteo</i>	Common Buzzard	LC		M	YR-R, M
<i>Buteo lagopus</i>	Rough-legged Buzzard	LC		M;WV	M
<i>Buteo rufinus</i>	Long-legged Buzzard	LC	VU	M	M
<i>Pernis apivorus</i>	European Honey-Buzzard	LC		M	M
<i>Pernis ptilorhynchus</i>	Crested Honey buzzard	LC		M	M
<i>Hieraaetus pennatus</i>	Booted Eagle	LC		M	M, BB
<i>Aquila heliaca</i>	Imperial Eagle	VU	VU	M	M
<i>Clanga clanga</i>	Greater Spotted Eagle	VU	VU	M	M,WV
<i>Clanga pomarina</i>	Lesser Spotted Eagle	LC		M	M
<i>Aquila nipalensis</i>	Steppe Eagle	EN		M	M
<i>Aquila chrysaetos</i>	Golden Eagle	LC	VU	M	M, YR-R
<i>Neophron percnopterus</i>	Egyptian Vulture	EN	VU	M	M, YR-V
<i>Gypaetus barbatus</i>	Bearded Vulture (Lammergeier)	NT	VU		YR-V
<i>Aegypius monachus</i>	Cinereous Vulture (Eurasian Black Vulture)	NT	EN		M, YR-V
<i>Gyps fulvus</i>	Eurasian Griffon Vulture	LC	VU		M, YR-V
<i>Circus aeruginosus</i>	Western Marsh Harrier	LC		BB	M
<i>Circus cyaneus</i>	Hen (or Northern) Harrier	LC		M	M
<i>Circus macrourus</i>	Pallid Harrier	NT		M	M
<i>Circus pygargus</i>	Montagu's Harrier	LC		M	M
<i>Falco cherrug</i>	Saker Falcon	EN	CR	M	M
<i>Falco biarmicus</i>	Lanner Falcon	LC	VU	M	M
<i>Falco peregrinus</i>	Peregrine Falcon	LC		M	M, YR-R
<i>Falco subbuteo</i>	Eurasian Hobby	LC		M	M, BB
<i>Falco columbarius</i>	Merlin	LC		M	M
<i>Falco vespertinus</i>	Red-footed Falcon	NT	EN	M	M

<i>Falco naumanni</i>	Lesser Kestrel	LC	CR?	M	M
<i>Falco tinnunculus</i>	Common Kestrel	LC		M	M, YR-R
<i>Tetraogallus caspius</i>	Caspian Snowcock	LC	VU		YR-R
<i>Lyrurus mlokosiewiczii</i>	Caucasian Grouse	LC		M	M, BB
<i>Coturnix coturnix</i>	Common Quail	LC	EN	M	M
<i>Grus grus</i>	Common Crane	LC		M	M
<i>Anthropoides virgo</i>	Demoiselle Crane	NT	VU		M
<i>Tetrax tetrax</i>	Little Bustard	LC		YR-R	
<i>Rallus aquaticus</i>	Water Rail	LC		M	
<i>Porzana porzana</i>	Spotted Crane	LC		BB	
<i>Zapornia parva</i>	Little Crane	LC		M	
<i>Zapornia pusilla</i>	Baillon's Crane	LC		M	BB
<i>Crex crex</i>	Corn crane	LC		YR-R	
<i>Gallinula chloropus</i>	Common Moorhen	LC		YR-R	
<i>Fulica atra</i>	Common Coot	LC		M	
<i>Porphyrio porphyrio</i>	Purple Swamphen	NT		M	
<i>Haematopus ostralegus</i>	Eurasian Oystercatcher	LC		M	
<i>Himantopus himantopus</i>	Black-winged Stilt	LC		M	
<i>Recurvirostra avosetta</i>	Pied Avocet	LC		M	
<i>Charadrius hiaticula</i>	Common Ringed Plover	LC		BB	
<i>Charadrius dubius</i>	Little Ringed Plover	LC		M	
<i>Charadrius alexandrinus</i>	Kentish Plover	LC		M	
<i>Eudromias morinellus</i>	Eurasian Dotterel	LC		M	
<i>Pluvialis apricaria</i>	Eurasian Golden-Plover	LC		M	
<i>Pluvialis squatarola</i>	Grey Plover	LC		M	
<i>Arenaria interpres</i>	Ruddy Turnstone	NT		M	
<i>Vanellus vanellus</i>	Northern Lapwing	LC		M	

<i>Vanellus spinosus</i>	Spur-Winged Lapwing	LC		M	
<i>Calidris falcinellus</i>	Broad-billed Sandpiper	NT		M	
<i>Calidris ferruginea</i>	Curlew Sandpiper	LC		M	
<i>Calidris alpina</i>	Dunlin	LC		M	
<i>Calidris temminckii</i>	Temminck's Stint	LC		M	
<i>Calidris minuta</i>	Little Stint	NT		M	
<i>Calidris canutus</i>	Knot	LC		M	
<i>Calidris alba</i>	Sanderling	LC		M	
<i>Phalaropus lobatus</i>	Red-necked Phalarope	LC		M	
<i>Xenus cinereus</i>	Terek Sandpiper	LC		M	
<i>Tringa totanus</i>	Common Redshank	LC		M	
<i>Tringa erythropus</i>	Spotted Redshank	LC		M	
<i>Tringa nebularia</i>	Common Greenshank	LC		M	
<i>Tringa stagnatilis</i>	Marsh Sandpiper	LC		M	
<i>Tringa glareola</i>	Wood Sandpiper	LC		BB	
<i>Tringa ochropus</i>	Green Sandpiper	LC		BB	
<i>Actitis hypoleucos</i>	Common Sandpiper	LC		M	
<i>Calidris pugnax</i>	Ruff	NT		M	
<i>Numenius arquata</i>	Eurasian Curlew	LC		M	
<i>Numenius phaeopus</i>	Whimbrel	NT		M	
<i>Limosa limosa</i>	Black-tailed Goldwit	NT		M	
<i>Limosa lapponica</i>	Bar-tailed Godwit	LC		M;WV	M
<i>Scolopax rusticola</i>	Eurasian Woodcock	NT		M	
<i>Gallinago media</i>	Great Snipe	LC		M;WV	
<i>Gallinago gallinago</i>	Common Snipe	LC		M	
<i>Lymnocyrtus minimus</i>	Jack Snipe	LC	VU	M	
<i>Burhinus oedicephalus</i>	Stone-Curlew	NT		M	M

<i>Glareola nordmanni</i>	Black-winged Pratincole	LC		M	M
<i>Glareola pratincola</i>	Collared Pratincole	LC		M,WV	
<i>Larus genei</i>	Slender-billed Gull	LC		M,WV	
<i>Larus ichthyaetus</i>	Pallas's Gull	LC		YR-V	
<i>Larus ridibundus</i>	Common Black-headed Gull	LC		M,WV	
<i>Hydrocoloeus minutus</i>	Little Gull	LC		M,WV	
<i>Larus melanocephalus</i>	Mediterranean Gull	LC		Cas	
<i>Larus argentatus</i>	Herring Gull	NT		WV	
<i>Larus armenicus</i>	Armenian Gull	LC		YR-R	
<i>Larus michahellis</i>	Yellow-legged Gull	LC		YR-R	
<i>Larus cachinnans</i>	Caspian Gull	LC		M,WV	
<i>Larus fuscus</i>	Lesser Black-backed Gull	LC		M,WV	
<i>Larus canus</i>	Mew Gull	LC		Cas	
<i>Larus audouinii</i>	Audouin's Gull	LC		M,WV	
<i>Rissa tridactyla</i>	Kittiwake	LC		YR-V	
<i>Stercorarius pomarinus</i>	Pomarine Jaeger (Skua)	LC		YR-V	
<i>Stercorarius parasiticus</i>	Parasitic Jaeger (Skua)	LC		YR-V	
<i>Stercorarius longicaudus</i>	Long-tailed Jaeger (Skua)	LC		M	
<i>Gelochelidon nilotica</i>	Gull-billed Tern	LC		YR-V	
<i>Thalasseus sandvicensis</i>	Sandwich Tern	LC		M	
<i>Sterna hirundo</i>	Common Tern	LC		M	
<i>Sternula albifrons</i>	Little Tern	LC		M	
<i>Hydroprogne caspia</i>	Caspian Tern	LC		M	
<i>Chlidonias leucopterus</i>	White-winged Tern	LC		M	
<i>Chlidonias niger</i>	Black Tern	LC		M	
<i>Chlidonias hybrida</i>	Whiskered Tern	LC		YR-V	M
<i>Columba livia</i>	Rock Dove	LC		M	M

<i>Columba oenas</i>	Stock Dove	LC		M	M, BB
<i>Columba palumbus</i>	Common Wood-Pigeon	VU		M	M
<i>Streptopelia turtur</i>	Eurasian Turtle-Dove	LC		YR-V	M
<i>Streptopelia decaocto</i>	Eurasian Collared-Dove	LC		YR-V	BB
<i>Spilopelia senegalensis</i>	Laughing Dove	LC		BB	BB
<i>Cuculus canorus</i>	Common Cuckoo	LC		BB	BB, YR-R
<i>Clamator glandarius</i>	Great Spotted Cuckoo	LC		M	YR-R
<i>Bubo bubo</i>	Eurasian Eagle Owl	LC		M	
<i>Asio otus</i>	Northern Long-eared Owl	LC		M	M
<i>Asio flammeus</i>	Short-eared Owl	LC		BB,M	BB, M
<i>Otus scops</i>	Eurasian Scops-Owl	LC		M	YR-R
<i>Athene noctua</i>	Little Owl	LC		M	YR-R
<i>Strix aluco</i>	Tawny Owl	LC	EN	YR-V	BB, M,
<i>Tyto alba</i>	Barn Owl	LC		M	M, BB
<i>Caprimulgus europaeus</i>	European Nightjar	LC		BB	BB, M
<i>Apus apus</i>	Common Swift	LC		M	M, BB
<i>Tachymarptis melba</i>	Alpine Swift	LC		M	M
<i>Merops apiaster</i>	European Bee-eater	LC		M	Cas
<i>Merops superciliosus</i>	Blue-cheeked Bee-eater	LC		M	M
<i>Ceryle rudis</i>	Pied Kingfisher	LC		YR-R	YR-R
<i>Alcedo atthis</i>	Common Kingfisher	LC		M	M
<i>Upupa epops</i>	Common Hoopoe	LC			BB, YR-R
<i>Dryocopus martius</i>	Black Woodpecker	LC		YR-R	BB, YR-R
<i>Picus viridis</i>	Eurasian Green Woodpecker	LC		YR-R	BB, YR-R
<i>Dendrocopos major</i>	Greater Spotted Woodpecker	LC			BB, YR-R
<i>Leiopicus medius</i>	Middle Spotted Woodpecker	LC			BB
<i>Dendrocopos leucotos</i>	White-backed Woodpecker	LC			BB, YR-R

<i>Dryobates minor</i>	Lesser Spotted Woodpecker	LC		M	BB, M
<i>Jynx torquilla</i>	Eurasian Wryneck	LC			YR-R
<i>Eremophila alpestris</i>	Horned (or Shore) Lark	LC		M	M
<i>Calandrella rufescens</i>	Lesser Short-Toed Lark	LC		M	M
<i>Calandrella brachydactyla</i>	Greater Short-Toed Lark	LC		M	M
<i>Melanocorypha calandra</i>	Calandra Lark	LC		M	M, BB
<i>Lullula arborea</i>	Wood Lark	LC		M	M, BB
<i>Alauda arvensis</i>	Eurasian Skylark	LC		M	M
<i>Galerida cristata</i>	Crested Lark	LC		ND	
<i>Eremopterix nigriceps</i>	Black-Crowned Sparrow-Lark	LC		BB,M	BB, M
<i>Hirundo rustica</i>	Barn Swallow	LC		Cas	
<i>Hirundo daurica</i>	Red-Rumped Swallow	LC		M	M, BB
<i>Hirundo rupestris</i>	Eurasian Crag-martin	LC		M	
<i>Riparia riparia</i>	Sand Martin	LC		YR-V	BB, M
<i>Delichon urbicum</i>	Northern House-Martin	LC		M	M, BB
<i>Anthus trivialis</i>	Tree Pipit	NT		M	M, BB
<i>Anthus pratensis</i>	Meadow Pipit	LC		M	M, M
<i>Anthus cervinus</i>	Red-Throated Pipit	LC		M	M, BB
<i>Anthus spinoletta</i>	Water Pipit	LC		M	M
<i>Anthus campestris</i>	Tawny Pipit	LC		YR-R	BB, M
<i>Motacilla alba</i>	White Wagtail	LC		M	BB, M
<i>Motacilla cinerea</i>	Grey Wagtail	LC		M	M, BB
<i>Motacilla flava</i>	Yellow Wagtail	LC		M	M
<i>Motacilla citreola</i>	Citrine Wagtail	LC		WV	
<i>Lanius excubitor</i>	Greater Grey (or Northern) Shrike	LC		M	M
<i>Lanius minor</i>	Lesser Grey Shrike	LC		M	
<i>Lanius senator</i>	Woodchat Shrike	LC		BB,M	BB, M

<i>Lanius collurio</i>	Red-backed Shrike	LC		Cas	M,
<i>Lanius isabellinus</i>	Isabelline Shrike	LC		BB,M	BB, M, YR-R
<i>Prunella modularis</i>	Hedge Accentor (Dunnock)	LC			YR-R
<i>Prunella collaris</i>	Alpine Accentor	LC		Cas	
<i>Locustella lanceolata</i>	Lanceolated Warbler	LC		M	BB, M
<i>Locustella naevia</i>	Grasshopper Warbler	LC		M	M
<i>Locustella fluviatilis</i>	Eurasian River Warbler	LC		MM	M
<i>Locustella luscinioides</i>	Savi's Warbler	LC			M
<i>Acrocephalus agricola</i>	Paddyfield Warbler	LC		BB	M
<i>Acrocephalus scirpaceus</i>	Eurasian Reed-Warbler	LC		BB	M
<i>Acrocephalus palustris</i>	Marsh Warbler	LC		M	M
<i>Acrocephalus dumetorum</i>	Blyth's Reed-warbler	LC		BB	M
<i>Acrocephalus arundinaceus</i>	Great Reed-Warbler	LC		M	M
<i>Acrocephalus melanopogon</i>	Moustashed Warbler	LC		M	M
<i>Acrocephalus schoenobaenus</i>	Sedge Warbler	LC		BB	M
<i>Cettia cetti</i>	Cetti's Warbler	LC		M	M
<i>Hippolais icterina</i>	Icterine Warbler	LC		M	M
<i>Hippolais pallida</i>	Olivaceous Warbler	LC		M	
<i>Hippolais languida</i>	Upcher's Warbler	LC		M	M
<i>Hippolais caligata</i>	Booted Warbler	LC		Cas	
<i>Sylvia melanocephala</i>	Sardinian Warbler	LC		BB	M
<i>Sylvia communis</i>	Common Whitethroat	LC		BB	M, BB
<i>Sylvia curruca</i>	Lesser Whitethroat	LC		BB	M
<i>Sylvia borin</i>	Garden Warbler	LC		BB	BB, M,
<i>Sylvia nisoria</i>	Barred Warbler	LC		BB	BB, M
<i>Sylvia atricapilla</i>	Blackcap	LC		BB	M
<i>Phylloscopus trochilus</i>	Willow Warbler	LC		BB	M, BB

<i>Phylloscopus collybita</i>	Common Chiffchaff	LC		M	M, BB
<i>Phylloscopus sindianus</i>	Mountain Chiffchaff	LC		M	M
<i>Phylloscopus sibilatrix</i>	Wood Warbler	LC		M	M, BB
<i>Phylloscopus trochiloides</i>	Greenish Warbler	LC		M	BB, M, YR-R
<i>Regulus regulus</i>	Goldcrest	LC		M	M
<i>Regulus ignicapilla</i>	Firecrest	LC		BB	BB,M,
<i>Muscicapa striata</i>	Spotted Flycatcher	LC		M	M
<i>Ficedula hypoleuca</i>	European Pied Flycatcher	LC		M	M, BB
<i>Ficedula albicollis</i>	Collared Flycatcher	LC		M	BB, M
<i>Ficedula parva</i>	Red-breasted Flycatcher	LC		M	BB, M
<i>Ficedula semitorquata</i>	Semi-Collared Flycatcher	LC		M	M, BB
<i>Saxicola torquatus</i>	Common Stonechat	LC		M	M, BB
<i>Saxicola rubetra</i>	Whinchat	LC		M	M, BB
<i>Oenanthe deserti</i>	Desert Wheater	LC		M	M
<i>Oenanthe isabellina</i>	Isabelline Wheatear	LC		M	
<i>Oenanthe hispanica</i>	Black-eared Wheatear	LC		WV	M, BB
<i>Phoenicurus ochruros</i>	Black Redstart	LC		BB,M	M, BB
<i>Phoenicurus phoenicurus</i>	Common Redstart	LC		YR-R	M, BB
<i>Erithacus rubecula</i>	European Robin	LC		M	M
<i>Luscinia svecica</i>	Bluethroat	LC		M	M
<i>Luscinia luscinia</i>	Thrush Nightingale	LC		BB	BB, M
<i>Luscinia megarhynchos</i>	Common Nightingale	LC		BB	BB, M
<i>Monticola solitarius</i>	Blue Rock-Thrush	LC			M,
<i>Erythropygia galactotes</i>	Rufous-tailed Scrub-Robin	LC		YR-R	YR-R
<i>Turdus merula</i>	Eurasian Blackbird	LC			YR-R
<i>Turdus torquatus</i>	Ring Ouzel	LC		WV	WV, M
<i>Turdus pilaris</i>	Fieldfare	NT		WV	WV, M

<i>Turdus iliacus</i>	Redwing	LC		M	BB, M
<i>Turdus philomelos</i>	Song Thrush	LC		M	YR-R, M
<i>Turdus viscivorus</i>	Mistle Thrush	LC	VU	M,WV	
<i>Panurus biarmicus</i>	Bearded Reedling	LC		YR-R	BB, M, YR-R
<i>Aegithalos caudatus</i>	Long-tailed Tit	LC			YR-R
<i>Parus ater</i>	Coal Tit	LC		YR-R	YR-R
<i>Parus major</i>	Great Tit	LC		YR-R	YR-R
<i>Parus caeruleus</i>	Blue Tit	LC			YR-R
<i>Sitta europaea</i>	Wood Nuthatch	LC			YR-R
<i>Sitta neumayer</i>	Rock Nuthatch	LC			YR-R
<i>Sitta krueperi</i>	Küper's Nuthatch	LC			YR-R
<i>Tichodroma muraria</i>	Wall-creeper	LC		M	YR-R
<i>Certhia familiaris</i>	Eurasian Tree-creeper	LC		M	M
<i>Certhia brachydactyla</i>	Short-toed Tree-creeper	LC		YR-R	YR-R
<i>Troglodytes troglodytes</i>	Winter Wren	LC			YR-R
<i>Cinclus cinclus</i>	White-throated Dipper	LC		BB,M	M, BB
<i>Miliaria calandra</i>	Corn Bunting	LC			BB, M, YR-R
<i>Emberiza cia</i>	Rock Bunting	LC		M	M
<i>Emberiza citrinella</i>	Yellowhammer	LC		M	M
<i>Emberiza melanocephala</i>	Black-headed Bunting	LC		M	M
<i>Emberiza hortulana</i>	Ortolan Bunting	LC		M,WV	M
<i>Calcarius lapponicus</i>	Lapland Bunting	LC		M	WV, M
<i>Fringilla montifringilla</i>	Brambling	LC		YR-R	YR-R
<i>Fringilla coelebs</i>	Eurasian Chaffinch	LC		YR-R	YR-R
<i>Carduelis carduelis</i>	European Goldfinch	LC		M	YR-R
<i>Carduelis spinus</i>	Eurasian Siskin	LC		YR-R	YR-R
<i>Carduelis chloris</i>	European Greenfinch	LC			YR-R

<i>Carduelis flavirostris</i>	Twite	LC		M	M, YR-R
<i>Carduelis cannabina</i>	Eurasian Linnet	LC		M	M, YR-R
<i>Pyrrhula pyrrhula</i>	Eurasian Bullfinch	LC		M	YR-R
<i>Coccothraustes Coccothraustes</i>	Hawfinch	LC		M	M
<i>Serinus serinus</i>	European Serin	LC			YR-R
<i>Serinus pusillus</i>	Fire-fronted Serin (Red-fronted Serin)	LC		M	M, BB
<i>Carpodacus erythrinus</i>	Common Rosefinch	LC			M, YR-R
<i>Loxia curvirostra</i>	Red Crossbill (Common Crossbill)	LC		M	M
<i>Passer hispaniolensis</i>	Spanish Sparrow	LC		M	BB, M
<i>Passer montanus</i>	Tree Sparrow	LC		YR-R	YR-R
<i>Passer domesticus</i>	House Sparrow	LC		M	M, BB
<i>Sturnus vulgaris</i>	Common Starling	LC		M	M
<i>Sturnus roseus</i>	Rose-coloured Starling	LC		M	BB,M,
<i>Oriolus oriolus</i>	Eurasian Golden Oriole	LC		YR-R	YR-R
<i>Garrulus glandarius</i>	Eurasian Jay	LC			WV, M,
<i>Nucifraga caryocatactes</i>	Spotted Nutcracker	LC			YR-R
<i>Pyrrhonorax pyrrhonorax</i>	Red-billed Chough	LC			YR-R
<i>Pyrrhonorax graculus</i>	Yellow-billed Chough	LC		YR-V	YR-R
<i>Corvus corax</i>	Common Raven	LC		M	M
<i>Corvus frugilegus</i>	Rook	LC		YR-R	YR-R
<i>Corvus corone</i>	Hooded Crow	LC		M	YR-R
<i>Corvus monedula</i>	Eurasian Jackdaw	LC			YR-R

Appendix 3.2.b: Threatened and near-threatened avifauna

Species seasonal life history at a given site as in Appendix 3.2.a

		IUCN/Georgian Red List for all sites		Kolkheti NP	Mtiral NP/ Kintrishi Pas
Species scientific name	Species English name	IUCN	RLG	Occurence	Occurence
<i>Oxyura leucocephala</i>	White-Headed Duck	EN	EN	WV, BB?	
<i>Aquila nipalensis</i>	Steppe Eagle	EN		M	M
<i>Neophron percnopterus</i>	Egyptian Vulture	EN	VU	M	M,YR-V
<i>Falco cherrug</i>	Saker Falcon	EN	CR	M	M
<i>Aythya nyroca</i>	Ferruginous Pochard	NT		M	
<i>Milvus milvus</i>	Red Kite	NT		Cas	Cas
<i>Gypaetus barbatus</i>	Bearded Vulture (Lammergeier)	NT	VU		YR-V
<i>Aegypius monachus</i>	Cinereous Vulture (Eurasian Black Vulture)	NT	EN		YR-V
<i>Circus macrourus</i>	Pallid Harrier	NT		M	M
<i>Falco vespertinus</i>	Red-footed Falcon	NT	EN	M	M
<i>Anthropoides virgo</i>	Demoiselle Crane	NT	VU		M
<i>Porphyrio porphyrio</i>	Purple Swamphen	NT		M	
<i>Arenaria interpres</i>	Ruddy Turnstone	NT		M	
<i>Calidris falcinellus</i>	Broad-billed Sandpiper	NT		M	
<i>Calidris minuta</i>	Little Stint	NT		M	
<i>Calidris pugnax</i>	Ruff	NT		M	
<i>Numenius phaeopus</i>	Whimbrel	NT		M	

<i>Limosa limosa</i>	Black-tailed Goldwit	NT		M	
<i>Scolopax rusticola</i>	Eurasian Woodcock	NT		M	
<i>Burhinus oedicephalus</i>	Stone-Curlew	NT		M	M
<i>Larus argentatus</i>	Herring Gull	NT		WV	
<i>Anthus trivialis</i>	Tree Pipit	NT		M	M, BB
<i>Turdus pilaris</i>	Fieldfare	NT		WV	WV, M
<i>Podiceps auritus</i>	Horned (or Slavonian) Grebe	VU		Cas	
<i>Puffinus yelkouan</i>	Mediterranean (Yelkouan) Shearwater	VU		YR-V	
<i>Pelecanus crispus</i>	Dalmatian Pelican	VU	EN	M	M
<i>Anser erythropus</i>	Lesser White-fronted Goose	VU	EN	M	
<i>Aythya ferina</i>	Common Pochard	VU		M, WV	
<i>Melanitta fusca</i>	White-winged (or Velvet) Scoter	VU	EN	WV	
<i>Aquila heliaca</i>	Imperial Eagle	VU	VU	M	M
<i>Clanga clanga</i>	Greater Spotted Eagle	VU	VU	M	M, WV
<i>Columba palumbus</i>	Common Wood-Pigeon	VU		M	M

Appendix 3.3: Reptiles

Latin name	Georgian name	English name	Caucasus Endemic	Georgian Red List	IUCN Red List	Kolkheti	Kobuleti	Mtiralal/ Kintrishi
<i>Anguis colchica</i> ²	ბოხმეჭა	Colchis Slow worm	X		NE	X ⁴	X	X ⁴
<i>Coronella austriaca</i> ²	სპილენძა	Smooth snake			NE			X ⁴
<i>Darevskia praticola</i> ¹	მდელოს ხვლიკი	Meadow lizard			NT	#	X	X
<i>Darevskia derjugini</i> ¹	ართვინის ხვლიკი	Artvin lizard	X		NT	X ⁴	X ⁴	X ⁴
<i>Darevskia rudis</i> ¹	ქართული ხვლიკი	Georgian lizard			LC			X
<i>Darevskia clarkorum</i> ³	თურქული ხვლიკი	Clark's lizard	X	EN	EN			X ³
<i>Darevskia parvula</i> ¹	წითელმუცელა ხვლიკი	Red-bellied lizard	X		LC			X ²
<i>Darevskia dryada</i>	? ხვლიკი	Charnali lizard	X		CR			X ¹
<i>Emys orbicularis</i> ¹	ჭაობის კუ	European marsh turtle			LR/NT	X ⁴	X	
<i>Lacerta agilis</i> ¹	მარდი ხვლიკი	Sand lizard			LC	X ⁴	X ⁴	X
<i>Natrix natrix</i> ¹	ჩვეულებრივი ანკარა	Ring snake			LR/LC	X ⁴	X ⁴	X ⁴
<i>Natrix tessellata</i> ¹	წყლის ანკარა	Dice snake			LC	X ⁴	X ⁴	X
<i>Vipera kaznakovi</i> ¹	კავკასიური გველგესლა	Caucasian viper	X	EN	EN			X ¹
<i>Zamenis longissimus</i> ¹	ესკულაპის მცურავი	Aesculapian ratsnake			LC	X	X	X ¹
<i>Zamenis hohenackeri</i> ⁴	ამიერკავკასიური მცურავი	Transcaucasian rat snake	X		NE			X ¹

1- taxonomy according to www.redlist.org

2 - taxonomy according to www.catalogueoflife.org

3 - taxonomy according to Tarkhnishvili, 2012: <http://scholar.google.com/scholar?cluster=1336770439256601052&hl=en&inst=8697446408056752236&oi=scholar>

4 - taxonomy according to <http://reptile-database.reptarium.cz>

5 - www.redlist.org considers that the species in the area where its presence is approved should belong not to *D. clarkorum* but to *D. dryata* (CE according to the redlist org), although I consider this to be a synonym of *D. clarkorum* (Tarkhnishvili, 2012).

6 - www.redlist.org considers that the species in the area where its presence is approved should belong not to *N. natrix* but to *N. megalcephala* (VU according to the redlist org), although I consider this to be a synonym of *N. natrix* because no genetic evidence is available for separate status of *N. "megalcephala"* so far.

X - within the area of occupancy

(X) - within the area of occurrence

- reported

X¹ - Bannikov et al., 1997

X² - Darevsky 1967

X³ - www.redlist.org

X⁴ – Tarkhnishvili, pers. obs.

Appendix 3.4: Amphibia

Latin name	Georgian name	English name	Caucasus Endemic	Georgian Red List	IUCN Red List	Kolkheti	Kobuleti	Mtirala/ Kintrishi
<i>Bufo verrucosissimus</i> ¹	კავკასიური გომბეშო	Caucasian toad	v		NT			X ²
<i>Bufo viridis</i> ¹	მწვანე გომბეშო	European green toad			LC	X ²	X ²	X ²
<i>Hyla orientalis</i> ²	აღმოსავლური ვასაკა	Tree frog			LC	X ²	X ²	X ²
<i>Pelodytes caucasicus</i> ¹	კავკასიური ჯვარულა	Caucasus parsley frog	v		NT			X ²
<i>Pelophylax ridibundus</i> ¹	ტბორის ბაყაყი	Marsh frog			LC	X ²	X ²	X ¹
<i>Rana macrocnemis</i> ¹	მცირეაზიური ბაყაყი	Iranian long-legged frog			LC	X ⁴	X	X ¹
<i>Triturus karelinii</i> ¹	კარელინის სავარცხლიანი ტრიტონი	Great crested newt			LC	X ²	X ²	
<i>Lissotriton vulgaris lantzi</i> ¹	ლანტის ჩვეულებრივი ტრიტონი	Smooth newt			LC	X ⁴	X ³	
<i>Ommatotriton ophryticus</i> ¹	მცირეაზიური ტრიტონი	Northern banded newt			NT			X ¹
<i>Mertensiella caucasica</i> ¹	კავკასიური სალამანდრა	Caucasian salamander	v	VU	VU			X ²

1- taxonomy according to www.redlist.org

2 - taxonomy according to www.catalogueoflife.org

X - within the area of occupancy

(X) - within the area of occurrence

- reported

X¹ - Bannikov et al., 1997

X² -Tarkhnishvili & Gokhelasvili 1999

X³ -Tarkhnishvili & Gokhelasvili 2000

X⁴ - Tarkhnishvil

*Tarkhnishvili D, Gokhelasvili R. 1999. The Amphibians of the Caucasus. Pensoft, Sofia.

Within the extent of occurrence - according to IUCN categories/ criteria

Within the area of occupancy - within the extent of occurrence and habitats present typical for this species

Appendix 3.5 Ichthyofauna

Ichthyofauna occurring in the Colchic Rainforests and Wetlands. The nominated component areas of Kolkheti National Park are treated as one unit in this analysis. (Source: Guchmanidze, Input to Garstecki et al. 2017)

Latin name	English name	Endemism	IUCN RL category	Mtiral-Kintrishi	Ispani	Kolkheti National Park
<i>Acipenser colchica</i>	Kolkhic Sturgeon	Endemic to the Kolkheti region	NE for <i>Acipenser gueldenstaedtii</i> - CR			X
<i>Acipenser stellatus</i>	Stellate Sturgeon, Starry Sturgeon		CR			X
<i>Salmo trutta</i>	Brown Trout	Kolkhic (West Caucasus) Population	LC	X		
<i>Salmo labrax</i>	Black Sea salmon	Endemic to the Black sea's basin	LC	X		
<i>Alburnus alburnus</i>	Bleak		LC			X
<i>Alburnus derjugini</i>	kolkhic Shemaya	Endemic to the Kolkheti-North Anatolian region	LC		X	X
<i>Alburnoides fasciatus</i>	kolkhic Minow	Endemic to the Kolkheti-North Anatolian region	LC		X	X
<i>Carassius gibelio</i>	Crussian carp				X	X
<i>Cyprinus carpio</i>	Wild Common Carp		VU		X	X
<i>Scardinius erythrophthalmus</i>	Rudd		LC		X	X
<i>Tinca tinca</i>	Tench		LC		X	X
<i>Vimba vimba</i>	Zarte		LC		X	X
<i>Rutilus rutilus</i>	Roach		LC			X
<i>Aspius aspius</i>	Asp		LC			X

<i>Blicca bjoerkna</i>	Silver Bream		LC			X
<i>Abramis brama</i>	Bream		LC			X
<i>Hypophthalmichthys nobilis</i>	Bighead carp		NE			X
<i>Petroleuciscus borysthenticus</i>	Black Sea Chub		LC			X
<i>Rhodeus amarus</i>	European bitterling		LC			X
<i>Esox lucius</i>	Pike		LC		X	X
<i>Perca fluviatilis</i>	Perch		LC		X	X
<i>Silurus glanis</i>	Wels Catfish		LC			X
<i>Sander lucioperca</i>	Pike-perch, Zander		LC			X
<i>Ponticola constructor</i>	Caucasian Goby	Endemic to the Caucasus region	LC			X
<i>Knipowitschia caucasica</i>	Caucasian dwarf goby		LC			X
<i>Knipowitschia longicaudata</i>	Longtail dwarf goby	Ponto-Caspian Relict	LC			X
<i>Babka gymnotrachelus</i>	Racer goby	Ponto-Caspian Relict	LC			X
<i>Gobius niger</i>	Black Goby		LC			X
<i>Neogobius melanostomus</i>	Round goby	Ponto-Caspian Relict	LC			X
<i>Ponticola kessleri</i>	Bighead goby	Ponto-Caspian Relict	LC			X
<i>Neogobius fluviatilis</i>	Monkey goby	Ponto-Caspian Relict	LC			X
<i>Proterorhinus marmoratus</i>	Tubenose Goby	Ponto-Caspian Relict	LC			X
<i>Neogobius ratan</i>	Ratan Goby	Ponto-Caspian Relict	LC			X
<i>Anguilla anguilla</i>	European Eel		CR			X

<i>Alosa caspia palaeostomi</i>	Paliastomi Shad	Endemic to the Kolkheti region (East Black sea)	NE			X
<i>Alosa immaculata</i>	Black sea Shad	Endemic to the Black sea's basin	VU			X
<i>Engraulis encrasicolus ponticus</i>	Black Sea Anchovy		LC			X
<i>Dasyatis pastinaca</i>	Common Stingray		DD			X
<i>Gasterosteus aculeatus</i>	Threespined Stickleback		LC			X
<i>Syngnathus abaster</i>	Black-striped Pipefish		LC			X
<i>Hippocampus guttulatus</i>	Long-snouted Seahorse		DD			X
<i>Gambusia holbrooki</i>	Eastern Mosquitofish		LC			X
<i>Mugil cephalus</i>	Flathead Mullet		LC			X
<i>Liza haematocheila</i>	So-iuy mullet		NE			X
<i>Liza aurata</i>	Golden Grey Mullet		LC			X
<i>Liza saliens</i>	Leaping Gray Mullet		LC			X
<i>Atherina boyeri</i>	Big-scale Sand Smelt (Black Sea Silverside)		LC			X
<i>Dicentrarchus labrax</i>	European Seabass		LC			X
<i>Trachurus mediterraneus ponticus</i>	Black Sea Horse Mackerel		LC			X
<i>Umbrina cirrosa</i>	Shi drum		NE			X
<i>Merlangius merlangus</i>	Whiting		LC			X
<i>Mullus barbatus ponticus</i>	Black sea red mullet		LC			X

<i>Scophthalmus maeoticus</i>	Black sea Turbot		NE			X
<i>Platichthys flesus</i>	Flounder		LC			X
<i>Pegusa nasuta</i>	Blackhand sole		NE			X

Appendix 3.6 Invertebrates

Appendix 3.6.a List of regional or local endemic molluscs species for the protected areas of the Colchic Rainforests and Wetlands

A total of 55 regional and local endemic molluscs have been recorded in the nominated component areas of the Colchic Rainforests and Wetlands. An additional 26 species have been documented in the immediate vicinity, and may also occur there¹.

Species	Mtirala-Kintrishi nominated component area	Areas within Kolkheti National Park
<i>Acicula limbata</i> Reuss, 1860		+
<i>Acicula moussoni</i> O. Boettger, 1879	+	
<i>Carychium schlickumi</i> Strauch, 1977		+
<i>Leiostyla paulinae</i> (Lindholm, 1913)	+	
<i>Leiostyla rectidentata</i> (Schileyko, 1975)	+	
<i>Leiostyla sinangula</i> (Schileyko, 1975)	+	
<i>Leiostyla superstructa</i> (Mousson, 1876)		+
<i>Leiostyla tenuimarginata</i> (Pilsbry, 1922)	+	
<i>Leiostyla zonifera</i> (Pilsbry, 1934)	+	
<i>Pilorcula trifilaris trifilaris</i> (Mousson, 1856)		+
<i>Gastrocopta theeli</i> (Westerlund, 1876)		+
<i>Andronakia catenulata</i> (Lindholm, 1913)	+	
<i>Ljudmilena sieversi</i> (Mousson, 1873)	+	
<i>Ljudmilena tricollis</i> (Mousson, 1876)	+	
<i>Retowskia schlaeflii</i> (Mousson, 1863)	+	+
<i>Mucronaria index</i> (Mousson, 1863)	+	+
<i>Mucronaria duboisi</i> (Charpentier, 1852)	+	+
<i>Mucronaria strauchi</i> (O. Boettger, 1878)		+
<i>Quadriplacata lederi</i> (O. Boettger, 1879)	+	
<i>Quadriplacata pumiliformis</i> (O. Boettger, 1881)		+

<i>Quadriplicata subaggesta</i> (Retowski, 1887)	+	
<i>Elia derasa</i> (Mousson, 1863)	+	+
<i>Euxinastra hamata</i> (O. Boettger, 1888)	+	
<i>Filosa filosa</i> (Mousson, 1863)	+	+
<i>Mentissoidea rupicola</i> (Mortillet, 1854)	+	+
<i>Scrobifera taurica</i> (L. Pfeiffer, 1848)	+	+
<i>Strigileuxina reuleauxi</i> (O. Boettger, 1887)	+	+
<i>Pontophaedusa funiculum</i> (Mousson, 1856)	+	+
<i>Pravispira semilamellata</i> (Mousson, 1863)	+	+
<i>Discoxychilus lindholmi</i> Riedel, 1966	+	
<i>Oxychilus lederi</i> (O. Boettger, 1880)	+	
<i>Oxychilus mingrelicus</i> (Mousson, 1863)	+	+
<i>Oxychilus oschtenicus</i> (O. Boettger, 1888)		+
<i>Oxychilus decipiens adsharicus</i> Riedel, 1966	+	
<i>Oxychilus decipiens decipiens</i> (O. Boettger, 1886)	+	
<i>Oxychilus subeffusus</i> (O. Boettger, 1879)		+
<i>Oxychilus translucidus</i> (Mortillet, 1854)	+	+
<i>Schistophallus discrepans</i> (Retowski, 1889)	+	
<i>Schistophallus duboisi</i> (Mousson, 1863)		+
<i>Vitrinoxychilus suturalis</i> (O. Boettger, 1881)	+	
<i>Vitrea praetermissa</i> Riedel, 1988	+	
<i>Trigonoclamys imitatrix</i> O. Boettger, 1881	+	
<i>Deroceras bakurianum</i> (Simroth, 1912)	+	
<i>Deroceras osseticum</i> (Simroth, 1901)	+	
<i>Megalopelte simrothi</i> Lindholm, 1914	+	
<i>Eumilax brandti</i> (Martens, 1880)	+	+
<i>Gigantomilax lederi</i> (O. Boettger, 1883)	+	

<i>Caucasotachea atrolabiata</i> (Krynicky, 1833)		+
<i>Caucasotachea calligera</i> (Dubois de Montpéroux, 1840)	+	+
<i>Helix buchii</i> Dubois de Montpéroux, 1839	+	
<i>Euomphalia aristata</i> (Krynicky, 1836)		+
<i>Harmozica maiae</i> (Hudec & Lezhawa, 1969)	+	
<i>Monacha perfrequens</i> (P. Hesse, 1914)	+	+
<i>Caucasocressa joannis</i> (Mortillet, 1854)	+	
<i>Circassina frutis</i> (L. Pfeiffer, 1859)	+	+
Total species richness	44	29

¹ **Sources of information:** Bukhnikashvili et al. (2016), Didmanidze (2004), Didmanidze and Kvavadze (2006), Didmanidze et al. (2013), Gratiashvili and Barjadze (2008), Kvavadze (1985), Kvavadze et al. (2011), Reck and Chaladze (2004), Tarkhnishvili and Chaladze (2013), Godunko et al. (2015), Kirkitadze and Japoshvili (2015), Kluge et al. (2013), Martynov et al. (2015), Martynov et al. (2016), Mumladze (2013), Mumladze et al. (2008), Mumladze et al. (2013), Murvanidze (2015) Murvanidze et al. (2016) Schröter et al. (2015), Seehausen et al. (2016), Walther et al. (2014), Zolotuhin and Didmanidze (2009).

Appendix 3.6.b: Species richness of some invertebrate groups in the Colchic Rainforests and Wetlands

Data on the overall species richness of some invertebrate taxa are provided based on published sources¹. For each protected area, biodiversity research intensity (knowledge level) and the number species are provided. In some cases only a approximate number of species could be accured (denoted by "~") while in some other cases only a minimum number of species is provided due to insuficiency of the respective literature (Denoted by "more than" mark). In this analysis, Mtirala National Park and Kintrishi Protected Areas were treated separately, while no differentiation between the nominated component areas within Kolkheti National Park was made. No information was available for Kobuleti Protected Areas.

	Mtirala National Park		Kintrishi Protected Areas		Kolkheti National Park	
Taxon	Knowledge level	Species	Knowledge level	Species	Knowledge level	Species
Mollusca	poor	38	poor	36	moderate	29
Odonata	poor	4	poor	11	moderate	9
Lepidoptera	poor	>30	poor	>45	moderate	56
Oribatida	moderate	122	moderate	95	good	148
Ephemeroptera	unknown	??	good	34	unknown	??
Crustacea	unknown	>20	unknown	>20	poor	80
Olygochaeta	poor	~14	poor	~12	poor	17

Appendix 3.6.c . Threatened and near-threatened invertebrate species of the Colchic Rainforests and Wetlands

Only the species for which reliable records are available from any targeted PA¹ are included in the table. In this analysis, Mtirala National Park and Kintrishi Protected Areas were treated separately, while no differentiation between the nominated component areas within Kolkheti National Park was made. No information was available for Kobuleti Protected Areas.

Higher taxa	Species	Red List status	Kolkheti PA	Mtirala PA	Kintrishi PA
<i>IUCN Red listed species</i>					
Arthropoda (Crustacea)	<i>Astacus astacus</i>	VU	+	+	+
Arthropoda (Crustacea)	<i>Potamon ibericum</i>	NT	+	+	+
Arthropoda (Coleoptera)	<i>Cerambyx cerdo</i>	VU	+	+	+
Arthropoda (Lepidoptera)	<i>Lycaena dispar</i>	LR/NT	+	+	+
Arthropoda (Lepidoptera)	<i>Parnassius apollo</i>	VU		+	+
Arthropoda (Lepidoptera)	<i>Zerynthia caucasica</i>	VU		+	+
Arthropoda (Hymenoptera)	<i>Strongylognathus rehbinderi</i>	VU		+	
Mollusca	<i>Vertigo Moulinsiana</i>	VU	+		
Annelida	<i>Hirudo medicinalis</i>	NT	+		
Total species			6	7	7
<i>National red list species</i>					
Arthropoda (Lepidoptera)	<i>Saturnia pavonia</i>	VU	+	+	+
Arthropoda (Lepidoptera)	<i>Deilephila nerii</i>	EN		+	
Arthropoda (Lepidoptera)	<i>Parnassius apollo</i>	VU		+	+
Arthropoda (Lepidoptera)	<i>Parnassius nordmanni</i>	EN			+
Arthropoda (Lepidoptera)	<i>Zerinthia caucasica</i>	VU	+	+	+
Arthropoda (Lepidoptera)	<i>Erebia hewistonii</i>	VU			+

Arthropoda (Lepidoptera)	<i>Erebia iranica</i>	VU			+
Arthropoda (Hymenoptera)	<i>Bombus eriophorus</i>	VU	+	+	+
Arthropoda (Coleoptera)	<i>Rosalia alpina</i>	EN		+	+
Arthropoda (Odonata)	<i>Cordulegaster mzymtae</i>	VU		+	+
Arthropoda (Odonata)	<i>Calopteryx splendens mingrelica</i>	VU	+	+	+
Arthropoda (Crustacea)	<i>Astacus colchicus</i>	VU	+	+	+
Annelida	<i>Dendrobaena faucium</i>	VU	+		
Annelida	<i>Allolobophora kintrishiana</i>	EN			+
Mollusca	<i>Helix buchi</i>	VU	+	+	+
Total Species			7	10	13

¹ **Sources of information:** Bukhnikashvili et al. (2016), Didmanidze (2004), Didmanidze and Kvavadze (2006), Didmanidze et al. (2013), Gratiashvili and Barjadze (2008), Kvavadze (1985), Kvavadze et al. (2011), Reck and Chaladze (2004), Tarkhnishvili and Chaladze (2013), Godunko et al. (2015), Kirkitadze and Japoshvili (2015), Kluge et al. (2013), Martynov et al. (2015), Martynov et al. (2016), Mumladze (2013), Mumladze et al. (2008), Mumladze et al. (2013), Murvanidze (2015) Murvanidze et al. (2016) Schröter et al. (2015), Seehausen et al. (2016), Walther et al. (2014), Zolotuhin and Didmanidze (2009).

Appendix 4. Main Plant formations/associations of Mtirala-Kintrishi nominated component area

List of main plant formations. Source: Karazashvili & Manvelidze, Contribution to Garstecki et al. (2017).

Formations, associations	m.s.l.
1. Formation Carpineta (<i>Carpinus caucasica</i>)	
1.1 Association Carpinetum rhododendrosum	
A: <i>Carpinus betulus</i> ; <i>Castanea sativa</i> , <i>Fagus orientalis</i> , <i>Tilia begonifolia</i> , <i>Acer platanoides</i> , <i>Laurocerasus officinalis</i> , <i>Rhododendron ponticum</i>	<u>25-500</u>
B: <i>Rhododendron ponticum</i> ; <i>Laurocerasus officinalis</i> , <i>Vaccinium arctostaphylos</i> , <i>Viburnum opulus</i> , <i>Euonymus latifolia</i> , <i>Ilex colchica</i> .	
C: <i>Athyrium filix femina</i> , <i>Blechnum spicant</i> , <i>Iris lazica</i> , <i>Phyllitis scolopendrium</i> , <i>Cicerbita petiolata</i> , <i>Circea lutetina</i> , <i>Dryopteris filix-mas</i> -Sol.	
1.2 Fageto-Castaneto-Carpinetum rhododendrosum	
A: <i>Carpinus betulus</i> ; <i>Tilia begonifolia</i> , <i>Fagus orientalis</i> , <i>Ulmus glabra</i> , <i>Diospyros lotus</i> , <i>Alnus barbata</i> , <i>Acer platanoides</i> .	
B: <i>Rhododendron ponticum</i> , <i>Rubus caucasicus</i> , <i>Laurocerasus officinalis</i> , <i>Staphyllea pinnata</i> , <i>Sambucus nigra</i> , <i>Corylus avellana</i> , <i>Rhododendron luteum</i> .	<u>50-300</u>
C: <i>Pteris cretica</i> , <i>Cicerbita petiolata</i> , <i>Omphaloides cappadocica</i> , <i>Cyclamen adzcharicum</i> , <i>Prunella vulgaris</i> , <i>Phyllitis scolopendrium</i> , <i>Iris lazica</i> ; <i>Blechnum spicant</i> , <i>Dryopteris filix-mas</i>	

1	2
2. Formation - Castaneta (<i>Castanea sativa</i>) 2.1 Castanetum rhododendrosum. A: <i>Castanea sativa</i>, <i>Fagus orientalis</i>, <i>Carpinus betulus</i>, <i>Alnus glutinosa</i>, <i>Acer platanoides</i>. B: <i>Rhododendron ponticum</i>, <i>Laurocerasus officinalis</i>, <i>Vaccinium arctostaphylos</i>, <i>Ilex colchica</i>, <i>Ruscus hypopyllus</i>, <i>Hedera colchica</i>, <i>Rubus caucasicus</i>, <i>Coryllus avellana</i>, <i>Euonymus latifolia</i>. C: <i>Tamus communis</i>, <i>Potentilla micrantha</i>, <i>Circea lutetina</i>, <i>Pteridium tauricum</i>, <i>Chenopodium vulvaria</i>, <i>Ch. Album</i>, <i>Stellaria media</i>, <i>Veronica officinalis</i>, <i>Athyrium filix femina</i>, <i>Digitalis ferruginea</i>. 2.2 Fageto-Carpineto-Castanetum rhododendrosum. A: <i>Castanea sativa</i>, <i>Carpinus betulus</i>, <i>Fagus orientalis</i>, <i>Alnus barbata</i>, <i>Tilia begoniaefolia</i>, <i>Ulmus glabra</i>. B: <i>Rhododendron ponticum</i>, <i>Laurocerasus officinalis</i>, <i>Ilex colchica</i>, <i>Euonymus latifolia</i>, <i>Staphylea pinnata</i>. C: <i>Athyrium filix femina</i>, <i>Blechnum spicant</i>, <i>Solidago virgaurea</i>, <i>Stachys silvatica</i>, <i>Salvia glutinosa</i> 2.3 Castanetum laurocerasosum (sur 3) A: <i>Castanea sativa</i>, <i>Carpinus betulus</i>, <i>Fagus orientalis</i>, <i>Alnus glutinosa</i>, <i>Ulmus glabra</i>. B: <i>Laurocerasus officinalis</i>, <i>Rhododendron ponticum</i>, <i>Vaccinium arctostaphylos</i>, <i>Ilex colchica</i>, <i>Viburnum opulus</i>, <i>V. orientalis</i>. C: - (nude) 2.4 Carpineto-Castanetum laurocerasosum*. A: <i>Castanea sativa</i>, <i>Carpinus betulus</i>, <i>Fagus orientalis</i>, <i>Acer laetum</i>, <i>Taxus baccata</i>. B: <i>Laurocerasus officinalis</i>, <i>Rhododendron ponticum</i>, <i>Ilex colchica</i>, <i>Sambucus nigra</i>, <i>Hedera colchica</i>, <i>Rubus caucasicus</i>, <i>R. hirtus</i>, <i>Ruscus colchicus</i>. C: <i>Athyrium filix-femina</i>, <i>Dryopteris filix-mas</i>, <i>D. austriaca</i>, <i>Phyllitis scolopendrium</i>, <i>Pteris cretica</i>, <i>Paeonia macrophylla</i>, <i>Helleborus caucasicus</i>, <i>Lapsana intermedia</i>, <i>Hieracium laevigatum</i>, <i>Oxalis villosa</i>, <i>Ajuga reptans</i>, <i>Prunella vulgaris</i>.	<u>50-1100 (1200)</u> <u>500-700</u> <u>200-1200</u> <u>500-1000</u>

1	2
2.5 Fageto-Carpineto-Castanetum laurocerasosum. A: <i>Castanea sativa</i>, <i>Carpinus betulus</i>, <i>Fagus orientalis</i>, <i>Alnus barbata</i>, <i>Tilia begonifolia</i>, <i>Ulmus glabra</i>. B: <i>Laurocerasus officinalis</i>, <i>Rhododendron ponticum</i>, <i>Hedera colchica</i>, <i>Vaccinium arctostaphylos</i>. C: - (nude)	<u>50-1.000</u>
3. Formation - Alneta (<i>Alnus barbata</i>)	
3.1 Alnetum matteuccioso-rubosum. A: <i>Alnus barbata</i>, <i>A. glutinosa</i>. B: <i>Rubus caucasicus</i>, <i>Hedera colchica</i>. C: <i>Matteuccia struthiopteris</i>; <i>Petasites albus</i>, <i>Circea lutetiana</i>; <i>Salvia glutinosa</i>, <i>Galeobdolon luteum</i>, <i>Lamium album</i>.	<u>500-1.000</u>
3.2 Alnetum sambucosum. A: <i>Alnus barbata</i>. B: <i>Sambucus nigra</i>, <i>Rubus caucasicus</i>, <i>Hedera colchica</i> C: <i>Matteuccia struthiopteris</i>; <i>Dryopteris filix-mas</i>, <i>Athyrium filix-femina</i>; <i>Galeobdolon luteum</i>, <i>Trachystemon orientalis</i>, <i>Petasites albus</i>	<u>500-700</u>

1	2
4. Formation - Fageta (<i>Fagus orientalis</i>) 4.1 Fagetum rhododendrosum A: <i>Fagus orientalis</i>, <i>Carpinus betulus</i>. B: <i>Rhododendron ponticum</i>, <i>Laurocerasus officinalis</i>, <i>Hedera colchica</i>, <i>H. helix</i>, <i>Rubus caucasicus</i>, <i>Ruscus colchicus</i>. C: <i>Dryopteris filix-mas</i>, <i>Trachystemon orientale</i>, <i>Dentaria quinquefolia</i>, <i>Salvia glutinosa</i>, <i>Solidago virgaurea</i>, <i>Circea lutetina</i>, <i>Cicerbita pontica</i>. 4.2 Fagetum laurocerasosum A: <i>Fagus orientalis</i>, <i>Carpinus betulus</i>, <i>Tilia begonifolia</i>, <i>Picea orientalis</i>. B: <i>Laurocerasus officinalis</i>, <i>Rhododendron ponticum</i>, <i>Ilex colchica</i>, <i>Ruscus colchicus</i>, <i>Vaccinium arctostaphylos</i>, <i>Rhododendron luteum</i>. C: <i>Asperula odorata</i>, <i>Dentaria bulbifera</i>, <i>Athyrium filix-femina</i>, <i>Dryopteris filix-mas</i>, <i>Trachystemon orientalis</i>, <i>Stachys silvatica</i>. 4.3 Fagetum rhododendroso-laurocerasosum A: <i>Fagus orientalis</i>, <i>Castanea sativa</i>, <i>Carpinus betulus</i>, <i>Abies nordmanniana</i>, <i>Picea orientalis</i>, <i>Acer laetum</i>, <i>Sorbus torminalis</i>. B: <i>Laurocerasus officinalis</i>, <i>Rhododendron ponticum</i>, <i>Viburnum lantana</i>, <i>Rhododendron luteum</i>, <i>Ruscus colchicus</i>, <i>Rubus caucasicus</i>, <i>Hedera colchica</i>, <i>Ilex colchica</i>, <i>Vaccinium arctostaphylos</i>, <i>Lonicera caucasica</i>. C: <i>Blechnum spicant</i>, <i>Dryopteris filix-mas</i>, <i>Athyrium filix-femina</i>, <i>Asperula odorata</i>, <i>Oxalis villosa</i>, <i>Cephalanthera grandiflora</i>.	<u>900-1,800</u> <u>800-1,600</u> <u>1000-1,800</u>

1	2
4.4 Fagetum seneciosum A: <i>Fagus orientalis</i> , <i>Ace trautvetteri</i> , <i>Abies nordmanniana</i> , <i>Picea orientalis</i> . B: <i>Daphne mezereum</i> , <i>Vaccinium arctostaphylos</i> , <i>Ruscus colchicus</i> , <i>Rubus caucasicus</i> . C: <i>Adenostyles platiphyllodes</i> ; <i>Asperula odorata</i> , <i>Athyrium filix-femina</i> , <i>Dryopteris filix-mas</i> ; <i>Aconitum orientale</i> , <i>Brachypodium silvaticum</i> , <i>Crepis abietina</i> , <i>Gentiana schystocalyx</i> , <i>Valeriana alleariifolia</i> , <i>Oxalis acetosella</i> .	<u>1,600-2,000</u>
4.5 Abieto-Fagetum seneciosum A: <i>Fagus orientalis</i> , <i>Abies nordmanniana</i> , <i>Acer trautvetteri</i> . B: <i>Vaccinium arctostaphylos</i> , <i>Daphne mezereum</i> . C: <i>Adenostyles platiphyllodes</i> ; <i>Asperula odorata</i> , <i>Sanicula europea</i> , <i>Oxalis acetosella</i> ; <i>Athyrium filix-femina</i> , <i>Dryopteris filix-mas</i>	<u>1,600-1,700</u>
4.6 Fagetum graminoso-mixtoherbosum A: <i>Fagus orientalis</i> , <i>Acer trautvetteri</i> , <i>Betula litwinowii</i> , <i>B.medwedewii</i> . B: <i>Rhododendron luteum</i> , <i>Ribes biebersteinii</i> , <i>Vaccinium arctostaphylos</i> , <i>Daphne mezereum</i> . C: <i>Asperula odorata</i> , <i>Betonica granriflora</i> , <i>Anemone fasciculata</i> , <i>Festuca montana</i> ; <i>Briza australis</i> , <i>Bromopsis villosa</i> , <i>Calamagrostis arundinacea</i> , <i>Geranium psilostemon</i> , <i>Trifolium canescens</i> , <i>Amoria ambigua</i> .	<u>1,700-2,000</u>
4.7 Fagetum altherbosum. A: <i>Fagus orientalis</i> , <i>Abies nordmanniana</i> , <i>Picea orientalis</i> , <i>Acer trautvetteri</i> . B: <i>Daphne mezereum</i> , <i>Ribes biebersteinii</i> , <i>Rubus caucasicus</i> , <i>Rhododendron luteum</i> , <i>Rh. caucasicus</i> . C: <i>Adenostyles platiphyllodes</i> ; <i>Asperula odorata</i> , <i>Athyrium filix-femina</i> , <i>Dryopteris filix-mas</i> , <i>Aconitum orientale</i> , <i>Inula magnifica</i> , <i>Grossheimia poluphylla</i> , <i>Symphytum asperum</i> , <i>Heracleum sosnowskyi</i> .	<u>1,800-2,200</u>

1	2
4.8 Betuleto-Fagetum caucasico- rhododendrosum A: <i>Fagus orientalis</i>, <i>Betula litwinowii</i>, <i>B. medwedewii</i>, <i>Acer trautvetteri</i>, <i>Sorbus subfusca</i>. B: <i>Rhododendron caucasicum</i>, <i>Vaccinium arctostaphylos</i>, <i>V. myrtillus</i>. C: <i>Asperula odorata</i>, <i>Geranium psilostemon</i>, <i>G. silvaticum</i>, <i>Chamenerion angustifolium</i>, <i>Aconitum nasutum</i>, <i>A. orientale</i>, <i>Festuca Montana</i>; <i>Pulsatilla aurea</i>	<u>1.900-2.400</u>
4.9 Fagetum arctostaphylosum. A: <i>Fagus orientalis</i>, <i>Carpinus caucasica</i>, <i>Acer laetum</i>, <i>Castanea sativa</i>. B: <i>Vaccinium arctostaphylos</i>, <i>Rhododendron ponticum</i>, <i>Ilex colchica</i>. C: <i>Festuca montana</i>, <i>Luzula forsteri</i>, <i>Prunella vulgaris</i>, <i>Asperula odorata</i>, <i>Geranium rotundifolium</i>, <i>Gentiana schistocalyx</i>, <i>Cardamine pectinata</i>, <i>Paris incomplete</i>; <i>Achillea bisserata</i>, <i>Solidago virgaurea</i>, <i>Hypericum bupleriodes</i>.	<u>1.200-1.500</u>
4.10 Fagetum viburnosum A: <i>Fagus orientalis</i>, <i>Acer pseudoplatanus</i>, <i>Acer platanoides</i>, <i>Sorbus torminalis</i>. B: <i>Viburnum orientale</i>, <i>Ilex colchicus</i>, <i>Vaccinium arctostaphylos</i>, <i>Hedera colchica</i>, <i>Ruscus colchicus</i>. C: <i>Trachystemon orientale</i>, <i>Paris incompleta</i>, <i>Dentaria bulbifera</i>, <i>Rubus hirtus</i>.	<u>1.100-1.600</u>
4.11 Fagetum mixtofruticosum (Shkeriani) A: <i>Fagus orientalis</i>, <i>Sorbus biossieri</i>, <i>Quercus pontica</i>. B: <i>Rhododendron ponticum</i>, <i>Laurocerasus officinalis</i>, <i>Ruscus colchicus</i>+<i>Frangula alnus</i>, <i>Viburnum opulus</i>, <i>Rubus caucasica</i>, <i>Euonymus leiophlea</i>, <i>Ilex colchica</i>, <i>Vaccinium arctostaphylos</i>, <i>Rhododendron ungermii</i>, <i>Corylus avellana</i>, <i>Hedera colchica</i>, <i>H. helix</i>, <i>Smilax exels</i>, <i>Epigaea geultherioides</i>. C: <i>Asperula odorata</i>, <i>Phyllitis scolopdrium</i>, <i>Oxalis villosa</i>.	<u>1.100-1.300</u>

1	2
4.12 Fagetum nudum. A: <i>Fagus orientalis</i>, <i>Carpinus caucasica</i>. B: <i>Rubus caucasicus</i>, <i>Hedera colchica</i>. C: <i>Circea lutetiana</i>, <i>Cephalantera rubra</i>. 5. Formation-Betuleta (<i>Betula litwinowii</i>; <i>B. medwedewii</i>) 5.1 Betuleto caucasicum- rhododendrosum A: <i>Betula litwinowii</i>, <i>B. medwedewii</i>, <i>Sorbus aucuparia</i>, <i>Salix caprea</i>, <i>Acer trautwetteri</i>. B: <i>Rhododendron caucasicum</i>, <i>Ribes biebersteinii</i>, <i>Daphne mezereum</i>, <i>Vaccinium myrtillus</i>, <i>V. arctostaphylos</i>, <i>Sorbus subfusca</i>. C: <i>Gentiana schystocalyx</i>, <i>Milium effusum</i>, <i>M. schmidtianum</i>, <i>Oxalis acetosella</i>. 5.2 Betuletum altherbosa subalpina A: <i>Betula litwinowii</i>, <i>B. medwedewii</i>, <i>Sorbus aucuparia</i>, <i>Salix caprea</i>, <i>Fagus orientalis</i>, <i>Acer trautwetteri</i>. B: <i>Rhododendron luteum</i>, <i>Rhododendron caucasicum</i>, <i>Ribes biebersteinii</i>, <i>Daphne mezereum</i>, <i>Rubus idaeus</i>. C: <i>Alchemilla caucasica</i>, <i>Anemone fasciculata</i>, <i>Anthoxanthum odoratum</i>, <i>Calamagrostis arundinacea</i>, <i>Cephalaria gigantea</i>, <i>Geranium ibericum</i>, <i>Gentiana schystocalyx</i>, <i>Milium effusum</i>, <i>M. schmidtianum</i>, <i>Oxalis acetosella</i>, <i>Adenostyles rhombifolius</i>, <i>Pyrola rotundifolia</i>.	<u>600-1.500</u> <u>2.200-2.350</u> <u>2.200-2.350</u>

Appendix 5: Ministerial Decree #110 of 12 March 2014

Minister of Environment Protection of Georgia

Decree #110

12 March, 2014

Tbilisi

On structure and content of protected areas management plan and preparation stages and procedures of methodology of development of thematic topics

In accordance with paragraph 4, sub-paragraph "a", of Article 24 of the "Law of Georgia on the System of Protected Areas" and the Article 61 of the General Administrative Code of Georgia, I order:

Article 1. The attached "Structure and Content of Protected Areas' Management Plans and the Process of Elaborating Management Plans" shall be approved.

Article 2. Decree #39 of the Minister of the Environmental Protection about "Structure and Content of Protected Areas' Management Plans and the Process of Elaborating Management Plans", dated by August 22, 2011, shall be cancelled.

Article 3. The decree shall enter into force upon its promulgation.

Minister of the Environment and Natural
Resources Protection of Georgia

Khatuna Gogaladze

Structure and Content of Protected area Management Plans and the Process of Elaborating Management Plans

Article 1. General provisions

1. This document regulates the structure and content of management plans of certain categories of protected areas managed by the Agency of Protected Areas (hereinafter Agency) of the Ministry of Environment and Natural Resources Protection and the process of elaborating such plans, namely: Strict Nature Reserves; National Parks; Natural Monuments; Managed Nature Reserves.
2. Terms used in this document shall have the following meaning unless specified otherwise:
 - a) *Ecosystem services*: Ecosystem services are direct or indirect contribution of ecosystem services in wellbeing of people. Ecosystem services are divided into four categories, provisioning, regulating, habitat or supporting and cultural as follows:
 - a.a) Provisioning Services include products directly offered by the ecosystem, and namely, these are natural products such as wild fruit, nuts, berries, mushrooms, plant herbs and other vegetation representing important source of existence for rural population. Firewood and construction timber, fauna species used for nutrition purposes including fish, water as source of energy, potable and irrigation water also belong to provisioning services.
 - a.b) Regulating Services mean benefit gained through regulating physical, chemical and biological processes on-going between organism and environment. For example, forest ecosystems in

Georgia play decisive role in soil stabilisation as well as prevention and mitigation of hazardous natural occurrences such as landslide, landslip, flood etc.

- a.c) Habitat or supporting services are directly connected with habitation environment of the species, i.e. habitat. Ecosystems serve species as they represent shelters and migration routes for them. E.g. river is habitation environment for the fish as well as connection (migration route) to various river sections or water bodies (lake-river; river-sea-river). People do not benefit from supporting services directly but wildlife that represents part of ecosystems in itself.
- a.d) Cultural services include non-material benefit gained by people from ecosystems, e.g. tourism and ecotourism in particular is type of cultural service.
- b) *Ecotourism*: Ecotourism is used to mean forms of tourism which have the following characteristics:
 - b.a) All nature-based forms of tourism in which the main motivation of the tourists is the observation and appreciation of nature as well as the traditional cultures prevailing in natural areas.
 - b.b) It contains educational and interpretation features.
 - b.c) It is generally, but not exclusively organised by specialised tour operators for small groups. Service provider partners at the destinations tend to be small, locally owned businesses.
 - b.d) It minimises negative impacts upon the natural and socio-cultural environment.
 - b.e) It supports the maintenance of natural areas which are used as ecotourism attractions by:
 - generating economic benefits for host communities, organisations and authorities managing natural areas with conservation purposes,
 - providing alternative employment and income opportunities for local communities,
 - increasing awareness towards the conservation of natural and cultural assets, both among locals and tourists.
- c) *Indicator*: an indicator is used to assess progress towards achieving an objective of a management plan programme; an indicator may be quantitative or qualitative.
- d) *Protected Area*: an area defined as a protected area according to the provisions of the Law of Georgia on the System of Protected Areas 1996.
- e) *Programme (= management plan programme)*: A broad topic or theme under which management plan objectives and strategic actions are grouped.
- f) *Strategic action*: The intervention or set of interventions which the management team of the protected area will make to achieve an objective defined in one of the management plan's programmes.

Article 2. Coverage of a protected area management plan

A protected area management plan may cover one or more than one protected category where they are managed by one administration.

Article 3. Chapters of a protected area management plan

1. The management plan of a protected areas shall contain the following chapters:

- a) Introduction;
 - b) Description of the protected area;
 - c) Long-term objectives of the protected area;
 - d) Situation analysis of the protected area;
 - e) Internal zonation of the protected area (if applicable) and allowed activities;
 - f) Programmes of the protected area's management plan;
 - g) Monitoring of the implementation of the protected area's management plan;
 - h) Annexes of the protected area's management plan.
2. The introduction to the management plan shall be preceded by a table of contents.

Article 4. Contents of the introduction

The introduction shall include the following components:

- a) The purpose of the protected area's management plan;
- b) The territorial scope of the protected area's management plan, i.e the protected area that is covered by the management plan;
- c) A description of the legal and institutional framework governing the protected area;
- d) The main objectives of establishing the protected area;
- e) The process of development of the protected area's management plan ;
- f) The duration of the protected area's management plan;
- g) Updating and introducing amendments to the protected area's management plan.

Article 5. Contents of the description

1. The description of the protected area shall include the following components:

- a) Information about the location and the physical-geographical conditions of the protected area (including, according to their relevance, orography, hydrology, geology, geomorphology, climate and landscapes);
- b) A brief history of the protected area since its creation, including changes to the area and category of the protected area;
- c) A description of the biodiversity of the protected area, including ecosystems, habitats and species of global, regional and national significance by reference to relevant international, regional and national lists such as the IUCN Red List of Threatened Species, Plantlife's Important Plant Areas, Birdlife International's Important Bird Areas, Ramsar sites, the Bern Convention's lists of species and habitats in need of special protection, Emerald Network habitats, the Red List of Georgia, and other relevant lists;
- d) Information about tenure of the land inside the protected area (for example ownership, leasehold rights, natural resource use licences) and the use of natural resources in the protected area (for example grazing, mowing for hay, logging, bee keeping);
- e) A description of those social-economic characteristics of the adjacent territories which influence the management of the protected area including the process of zoning;
- f) The importance of the protected area for science and education.

2. The description shall include the following components if they are relevant for the category and characteristics of the protected area covered by the management plan:
 - a) The touristic and recreation value of the protected area;
 - b) The value of the protected area with regard to traditional activity and the sustainable use of natural resources;
 - c) The historical and cultural values of the protected area;
 - d) Other ecosystem services assessed on the protected area.
3. The description shall serve to identify the key values of the protected area on which the long term objectives for the protected area shall focus.

Article 6. The long term objectives for the protected area

The long-term objectives shall express the conditions which management of the protected area aims to achieve, within a time frame of 20-25 years, for each of the key values that are revealed by the description of the protected area.

Article 7. The contents of the situation analysis

The situation analysis shall describe the present state of the protected area with respect to the key values revealed in the description and the long term objectives of the protected area and shall identify problems and opportunities that shall be the focus of the management plan's programmes.

Article 8. Zones of the protected area

1. The zoning of the protected area (in case zoning is necessary for the protected area) shall consist of the following components:
 - a) A list of the zones of a protected area and a description of their purpose;
 - b) The area and boundaries of the zones;
2. The management plan shall state the activities that are allowed in the protected area. If the protected area is divided into zones the management plan shall state the activities that are allowed in each zone;
3. The restrictions (limits) to the allowed activities shall be defined according to need in the management plan.

Article 9. Factors to consider when defining zones

The internal zones of the protected area (in case such exist) and the allowed activities on the protected area shall be defined by considering the following factors:

- a) Whether the territory inside the zone or being considered for inclusion in a zone contains especially important examples of naturalness, landscapes, habitats, flora, fauna, geological, scientific, environmental, ecological, or recreational values, or archaeological, historical or cultural objects;
- b) Territories that are used by the local population for traditional activities, such as hay-making, grazing, bee-keeping, collection of non-timber products and other activities allowed by the law;
- c) Recognition throughout the world (e.g., in terms of cultural heritage);
- d) Analysis of the possibility of conflicts arising;

Article 10. Management plan programmes

1. The programmes of a protected area management plan shall include the following themes:

- a) Guarding against illegal access to the protected area, illegal use of the protected area's natural resources and other illegal activities;
 - b) Management of risks posed by fire, pests and diseases, and other natural phenomena;
 - c) Conservation of the protected area's biodiversity, including restoration where necessary;
 - d) Environmental education;
 - e) Community outreach;
 - f) Monitoring of the protected area's key values, including the condition of biodiversity and tendencies;
 - g) Development of the administration of the protected area.
2. The programmes of the Management Plan of a protected area shall also contain the issues listed below if they are relevant for the category and characteristics of the protected area covered by the Management Plan:
- a) The sustainable use of the natural resources of protected areas;
 - b) Eco-tourism;
3. Each programme shall be comprised of a description of the programme, programme objectives (i.e. the objectives which management aims to achieve during the life of the management plan), related *indicators* and *strategic actions*. The text shall explain the reasons for selecting the programme objectives and the relationships of the strategic actions to the programme objectives.

Article 11. Monitoring implementation of the management plan

Monitoring of the implementation of the protected area's management plan shall consist of the following components:

- a) Indicators for assessing progress towards reaching the objectives of the programmes of the management plan;
- b) A monitoring plan specifying who shall carry out the monitoring of progress towards the objectives of the management plan and at what intervals.

Article 12. The annexes of the protected area management plan

1. The annexes of a protected area management plan shall consist of the following components:
- a) A list of the flora and fauna spread on the territory of the protected area, including their status in the lists specified in Article 5, paragraph 1, sub-paragraph – c if relevant;
 - b) Maps;
 - b.a) A topographic map showing the location and the external boundaries of the protected area;
 - b.b) If relevant, a map showing the internal zones of the protected area;
2. Other Annexes may be added as appropriate according to the context of the protected area in question, for example, a map showing the existing infrastructure of the protected area (owned by the protected area in question as well as other infrastructure); information about the historical-cultural monuments existing on the territory of the protected area; a map of fire risk zones; landslide danger zones' map and other.

Article 13. Steps in preparing a protected area management plan

Preparation of the Protected Area's Management Plan consists of the following steps:

- a) Collection of information that is needed to prepare the description of the protected area (as defined in article 5 of the present document) and for the situation analysis (as defined in article 7 of the present document);
- b) An analysis of the protected area's stakeholders;
- c) Elaboration of a plan for involving stakeholders in the elaboration of the management plan;

- d) Elaboration of the long term objectives for the protected area (as defined in article 6 of the present document);
- e) The situation analysis (as defined in article 7 of the present document);
- f) In the case of a national park and managed reserve zonation of the protected area (as defined in article 8 of the present document);
- g) Elaboration of the management plan programmes (as defined in Article 10 of the present document);
- h) Compilation of the draft management plan;
- i) Public hearing of the draft Management Plan;
- j) Finalization of the draft management plan for submission to the Minister.

Article 14. Participation of stakeholders in the preparation of a protected area management plan

1. The management plan shall be elaborated with the participation of stakeholders to an extent and in a manner that shall be prescribed in the stakeholder involvement plan referred to in Article 13 paragraph c). The plan shall be determined by the characteristics of the protected area and the outcome of the stakeholder analysis referred to in Article 13 paragraph b);
2. Intensive participation is essential in cases where local communities or other stakeholders are using or benefitting from the resources of the protected area or are putting pressure on the values of the protected area.

Article 15. Public hearing of the draft management plan

1. The procedures for the public hearing referred to in Article 13 paragraph i) shall be as follows:
 - a) The Agency for Protected Areas shall cause the draft management plan to be published on its official web site and shall publish an announcement in an appropriate media that the draft management plan is available for viewing and information about the procedures for commenting on the draft management plan;
 - b) A stakeholder shall have the right to comment on the draft management plan during 30 (thirty) calendar days from the date of publication of the draft management plan;
 - c) The Agency for Protected Areas shall cause a public hearing meeting to be appointed within 40 (forty) calendar days after the publication of the draft management plan.

Appendix 6: Report of Stakeholder Meeting in February 2018

REPORT STAKEHOLDERS MEETING Nomination of Colchic Forests and Wetlands for inscription on the UNESCO's World Heritage List



13 February, 2018

Kobuleti, Georgia



1. Introduction

The stakeholders meeting on nomination of Colchic Forests and Wetlands for inscription on the UNESCO's World Heritage List took place on 13th of February 2018 in Kobuleti, Georgia. It was organized by WWF Caucasus Programme Office through the financial support from the Government of Germany (BMUB, UBA and BfN) and in close cooperation with the Michael Succow Foundation and Agency of Protected Areas of the Ministry of Environment Protection and Agriculture of Georgia. The workshop was attended by 36 participants representing the relevant central and local governmental institutions as well as non-governmental and scientific organizations (Annex 1 – Agenda and Annex 2 – A List of participants).

The main objective of the meeting was to inform key stakeholders about ongoing nomination process, progress of preparatory works and next steps towards the nomination.

The meeting participants were welcomed by Mr. Vakhtang Tsuladze, Chairman of the Committee on Agrarian and Environmental Issues of the Supreme Council of Adjara and Mr. David Markozashvili, Chairman of Agency of Protected Areas of the Ministry of Environment Protection and Agriculture of Georgia. Mr. V. Tsuladze and Mr. D. Markozashvili talked about the significance of nomination of Colchic Forests and Wetlands for inscription on the UNESCO World Heritage List and highlighted the importance of stakeholders involvement in the nomination process. Ms. Maka Bitsadze – Conservation Officer of WWF Caucasus Programme Office, gave an introductory speech on high conservation value of Colchic Forests and Wetlands.

2. Presentations

The meeting participants received information on the unique biodiversity of Colchic Forests and Wetlands as well as on the World Heritage Convention and UNESCO's World Heritage Sites through the following five presentations delivered at the meeting:

- Nominating Colchic Wetlands and Forests for the UNESCO's World Heritage Site – by Ms. Nato Sultanishvili, Head of Planning and Development Unit, Agency of Protected Areas of the Ministry of Environment Protection and Agriculture of Georgia;
- UNESCO, the World Heritage Convention and experience of Georgia in nomination of World Heritage Sites – by Ms. Rusudan Mirzikashvili, Head of Cultural Heritage Department of the Ministry of Culture and Sport of Georgia;
- The unique biodiversity of Colchic Forests and Wetlands:
 - By Mr. David Tarkhnishvili, Professor, Dean of School of Natural Sciences and Engineering, Ilia State University;
 - By Mr. David Kharazishvili, Head of Local Flora and Conservation Department, Batumi Botanical Garden;
 - By Ms. Izolda Matchutadze, Head of Colchic Peat and Water Ecosystem Conservation Department of Institute of Phytopathology and Biodiversity, Batumi Shota Rustaveli State University.

3. Discussion Highlights

The meeting participants raised various issues related to the nomination process for more clarification and understanding. The project team explained to the participants next planned steps and activities required for completion the nomination process. They also discussed the importance of communication with local key stakeholders and their involvement in further steps of nomination. Besides, the participants discussed challenges and benefits with respect to the World Heritage nomination and expressed their interest and full support to the WH nomination process.

Annex 1 – Agenda
Annex 2 – List of Participants
Annex 3 – Photos

Annex 1 – Agenda of Stakeholders Meeting, 13 February 2018, Kobuleti, Georgia



AGENDA

STAKEHOLDERS MEETING

Nomination of Colchic Forests and Wetlands for inscription on the UNESCO's World Heritage List

13 February, 2018
Kobuleti, Georgia

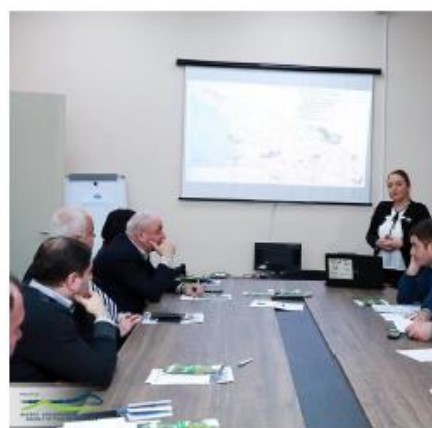
10:30 - 11:00	Registration (Coffee/Tea)
11:00 - 13:00	- Welcome - Mr. Vakhtang Tsuladze, Chairman of the Committee on Agrarian and Environmental Issues of the Supreme Council of Adjara - Introduction - Mr. David Markozashvili, Chairman of Agency of Protected Areas - Colchic Forests, the treasure of Nature - Representative of WWF Caucasus Programme Office - Nominating Colchic Wetlands and Forests for the UNESCO's World Heritage Site - Ms. Nato Sultanishvili, Head of Planning and Development Unit, Agency of Protected Areas - UNESCO, the World Heritage Convention and experience of Georgia in nomination of World Heritage Sites - Ms. Rusudan Mirzikashvili, Head of Cultural Heritage Department, the Ministry of Culture and Sport of Georgia - The unique biodiversity of Colchic Wetlands and Forests - Experts: - Mr. David Tarkhnishvili, Professor, Dean of School of Natural Sciences and Engineering, Ilia State University - Mr. David Kharazishvili, Head of Local Flora and Conservation Department, Batumi Botanical Garden - Ms. Izolda Matchutadze, Head of Colchic Peat and Water Ecosystem Conservation Department of Institute of Phytopathology and Biodiversity, Batumi Shota Rustaveli State University
13:00 - 13:30	Questions & Answers
13:30 - 14:15	Lunch
14:30 - 18:00	Field-visit - Educational trails of Kobuleti Protected Areas (<i>according to weather-forecast</i>)
19:00	Dinner

Annex 2 – List of Participants of Stakeholders Meeting, 13 February 2018, Kobuleti, Georgia

#	Name	Organization
Governmental Institutions		
1	Mr. David Markozashvili	Chairman of Agency of Protected Areas, Ministry of Environment Protection and Agriculture of Georgia
2	Ms. Tamar Khakhishvili	Head of International Relations and Project Management Unit of Agency of Protected Areas, Ministry of Environment Protection and Agriculture of Georgia
3	Ms. Nato Sultanishvili	Head of Planning and Development Unit of Agency of Protected Areas, Ministry of Environment Protection and Agriculture of Georgia
4	Ms. Khatuna Tsiklauri	Leading specialist of Agency for Protected Areas, Ministry of Environment Protection and Agriculture
5	Ms. Rusudan Mirzikaishvili	Head of Cultural Heritage Department, Ministry of Culture and Sport of Georgia
6	Mr. Vakhtang Tsuladze	Chairman of the Committee on Agrarian and Environmental Issues of the Supreme Council of Adjara
7	Mr. Badri Nakashidze	Deputy Minister of Education, Culture and Sport of Adjara AR
8	Mr. Jemal Nakashidze	Head of Environment Protection and Natural Resources Division of Adjara AR
9	Mr. Temur Khurshubadze	Head of Forestry Agency of Environment Protection and Natural Resources Division of Adjara AR
10	Ms. Tinatin Zoidze	Representative of the Department of Tourism and Resorts of Adjara AR
11	Ms. Tamar Kikalishvili	Representative of the Department of Tourism and Resorts of Adjara AR
12	Ms. Nona Tsulukidze	Head of Tourism Development Unit, Kobuleti Municipality
13	Mr. Giorgi Patsuria	The First Deputy Mayor of Lanchkhuti Municipality
14	Mr. Giorgi Chakhvadze	Chairman of City Hall Commission, Lanchkhuti Municipality
15	Mr. Vakhtang Shatikashvili	Senior Specialist of Economic and Property Management Department, Lanchkhuti Municipality
16	Ms. Manana Gogvadze	Senior Specialist of Green Service Unit, Lanchkhuti Municipality
17	Ms. Ketevan Loria	Head of Economic Development Unit of Economic Development and Tourism Department, Poti Municipality
18	Mr. Giorgi Khajhonia	Head of Municipal Property Record and Natural Resources Management Unit of Financial-Budgetary Department, Poti Municipality
19	Mr. Valeri Dochia	Representative of Zugdidi Municipality
20	Mr. Iason Sherozia	Deputy Head of Regional Project Coordination Department, Samegrelo-Zemo Svaneti Administration of State Representative - Governor
21	Mr. Revaz Moistrapashvili	Director of Kobuleti Protected Areas Administration
22	Mr. Aleksandre Khabelishvili	Director of Kolikheti National Park Administration
23	Mr. Amiran Khinikadze	Director of Kintrishi Protected Areas Administration
24	Mr. David Khomeriki	Director of Mtskheta National Park Administration
25	Mr. Giorgi Kuridze	Director of Matchkhela National Park Administration
Experts and Non-Governmental Organizations		
26	Mr. David Kharazishvili	Head of Local Flora and Conservation Department, Batumi Botanical Garden
27	Mr. David Tarkhishvili	Professor, Dean of School of Natural Sciences and Engineering, Ilia State University

28	Ms. Izolda Matchutadze	Head of Colchic Peat and Water Ecosystem Conservation Department of Institute of Phytopathology and Biodiversity, Batumi Shota Rustaveli State University
29	Mr. Ioseb Natradze	Researcher of Vertebrate Animal Scientific Research Group of Institute of Zoology, Ilia State University
30	Ms. Nino Memiadze	Head of Herbarium Fund of Local Flora and Conservation Department, Batumi Botanical Garden
31	Mr. Guram Memarne	Head of Institute of Phytopathology and Biodiversity, Batumi Shota Rustaveli State University
32	Ms. Nino Inaishvili	Researcher of Niko Berdzenishvili Institute, Batumi Shota Rustaveli State University
33	Mr. Irakli Mikeladze	Regional Coordinator, NGO - CEHN
WWF Caucasus Programme Office		
34	Ms. Maka Bitsadze	Conservation Officer
35	Ms. Ana Tsintsadze	Communications Officer
36	Mr. Zurab Manvelidze	Project Coordinator

Annex 3 – Photos of Stakeholders Meeting, 13 February 2018, Kobuleti, Georgia



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Appendix 7: Report of National Stakeholders Workshop in October 2018

REPORT

NATIONAL STAKEHOLDERS WORKSHOP

Nomination of Colchic Forests and Wetlands for inscription on the UNESCO World Heritage List



25 October, 2018

Batumi, Georgia



1. Introduction

The national stakeholders workshop on nomination of Colchic Forests and Wetlands for inscription on the UNESCO's World Heritage List took place on 25th of October 2018 in Batumi, Georgia. It was organized by WWF Caucasus Programme Office through the financial support from the Government of Germany (BMUB, UBA and BfN) and in close cooperation with the Michael Succow Foundation and Agency of Protected Areas of the Ministry of Environment Protection and Agriculture of Georgia. The workshop was attended by 39 participants representing the relevant central and local governmental institutions as well as non-governmental and scientific organizations (Annex 1 – Agenda and Annex 2 – List of participants).

The workshop had the following main objectives:

- Increase knowledge and understanding of the World Heritage concept and enhance stakeholders' participation in the nomination of Colchic Forests and Wetlands for inscription on the UNESCO World Heritage List.
- Update key stakeholders on the progress towards the nomination of Colchic Forests and Wetlands as well as inform on further steps for completion the official nomination.

2. Opening Speeches and Approval of the Agenda

- Mr. Giorgi Sanadiradze, Director of WWF Caucasus Programme Office, welcomed the workshop participants on behalf of World Wide Fund for Nature (WWF) Caucasus Programme Office. He underlined the significance of nomination of Colchic Forests and Wetlands for inscription on the UNESCO World Heritage List and talked about the importance of stakeholders involvement in the nomination process.
- Mr. Valerian Mchedlidze, Head of Agency of Protected Areas of the Ministry of Environment Protection and Agriculture of Georgia, expressed his gratitude to the workshop participants. He spoke on the importance of nomination of Colchic Forests and Wetlands for inscription on the UNESCO World Heritage List as well as underlined the commitment of Government of Georgia for this nomination.
- Mr. Jemal Nakashidze, Head of Environment Protection and Natural Resources Division of Adjara AR, welcomed the participants on behalf of the Government of Adjara AR and expressed the Government's support to the nomination.
- Mr Giorgi Sanadiradze introduced the workshop agenda and outlined its objectives and outputs. The workshop agenda was approved without changes.

3. Thematic Sessions

The workshop was structured around four main thematic sessions – (i) outstanding value of Colchic Forests and Wetlands; (ii) nomination dossier; (iii) experience of Georgia in nomination and management of the World Heritage Sites; and (iv) integrated management and monitoring framework.

3.1 Outstanding Value of Colchic Forests and Wetlands. Two presentations were delivered at this session and both presenters talked about the unique biodiversity and value of Colchic Forests and Wetlands and the importance of its conservation and global acknowledgment:

- The Colchic Forests and Wetlands – Treasure of Nature – by Nugzar Zazanashvili, Conservation Director, WWF Caucasus Programme Office.
- Global importance of the Colchic Wetlands – by Izolda Matchutadze, Head of Colchic Peat and Water Ecosystem Conservation Department of Institute of Phytopathology and Biodiversity, Batumi Shota Rustaveli State University.

3.2 The Nomination Dossier of Colchic Forests and Wetlands for inscription on the UNESCO World Heritage List. Nika Malazonia, National Consultant on UNESCO World Heritage Issues, introduced the nomination dossier of Colchic Forests and Wetlands with the following highlights:

- Description of component areas of the proposed property;
- Statement of outstanding universal value and compliance with world heritage criteria ix and x;
- Statement of Integrity;
- State of conservation and factors affecting the property;
- Threats to landscapes, ecosystems and biodiversity;
- Protection, management and monitoring of the proposed property.

3.3 UNESCO, the World Heritage Convention and Experience of Georgia. Rusudan Mirzikashvili, Expert on UNESCO World Heritage issues, delivered a presentation on Georgia's experience in nominating and management the World Heritage Sites. The presentation covered the following topics:

- The World Heritage Convention as one of the most efficient global conservation mechanism for unique natural and cultural sites;
- Categorization of Natural and Cultural Heritage;
- The World Heritage Sites in Georgia;
- Main criteria for World Heritage Sites;
- Steps of nomination process;
- Experience in management and monitoring of the World Cultural Heritage Sites in Georgia.

3.4 Integrated Management and Monitoring Framework. Two presentations were delivered at this session:

- Nato Sultanishvili, Head of Planning and Development Unit of Agency of Protected Areas, provided information on development and revision of Management Plans of Protected Areas contributing to the component areas of the proposed property.
- Tamar Khakhishvili, Head of International Relations and Project Management Unit of Agency of Protected Areas, delivered a presentation on Integrated Management and Monitoring Framework for the proposed Natural World Heritage Sites. She presented the structure, main content and components of the Framework as well as highlighted key issues such as a legal status of the document and the importance of effective coordination mechanism for ensuring integrated management and monitoring of the proposed sites.

4. Discussion Highlights

Throughout the day the workshop participants discussed various issues related to nomination, management and monitoring of the proposed property. They also discussed an issue of communication with local key stakeholders and their involvement in further steps of nomination. Discussion covered the following main areas:

- The importance of integrity and coordinated management of component areas of the proposed property which leads to the need of well-established Integrated Management and Monitoring Framework.
- Potential threats to the proposed property and its integrity and possible ways of addressing and mitigating those threats.
- A role of the local key stakeholders in processes related to management and monitoring of the proposed property.

- The importance of keeping the local stakeholders, including communities living close to the protected areas supporting the proposed property, informed about the progress in nomination of Colchic Forests and Wetlands.
 - It was suggested to establish a network of local contact persons to be appointed in each respective municipality to make communication on nomination and the World Natural Heritage issues smooth and efficient.
 - It was also proposed to appoint a contact-person in each respective protected area who will be responsible for communication with local stakeholders as well as with Agency of Protected Areas about the nomination process and the component areas of the proposed property itself.
- Generally, capacity required to deal with the World Heritage Sites at various phases from nomination to management and monitoring was considered as one of the most challenging issues, which needs to be adequately addressed at both local and central levels.
- More accessibility of the dossier and its translation into Georgian language:
 - It was recommended to make the final version of dossier available to those experts too who have not been involved in the development of the dossier, however they expressed interest to have more detailed information about the content of the document. It was also highly recommended to translate the final version of dossier into Georgian to make it available in native language for central and local key decision-makers.
 - It was additionally proposed to develop a Georgian language brief of the nomination dossier to communicate to the local key stakeholders. This will significantly help them to increase their understanding and knowledge about the World Heritage concept and nominated sites from Georgia.

5. Closure of the Meeting

Concluding discussion mainly was focused on the next steps and timeline for completion the nomination. Giorgi Sanadiradze and Nugzar Zazanashvili delivered closing remarks and extended their gratitude to the workshop participants for their active participation, motivation, valuable feedback and demonstrated support and interest to the nomination process.

Annex 1 – Agenda

Annex 2 – List of Participants

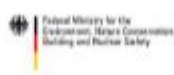
Annex 3 – Photos

AGENDA
STAKEHOLDERS WORKSHOP

**Nomination of Colchic Forests and Wetlands for inscription
on the UNESCO World Heritage List**



25 October, 2018
Batumi, Georgia



10:00-10:30 - Registration and Welcome Coffee	
10:30-10:45 - Opening Addresses	
Mr. Giorgi Sanadiradze, Director of WWF Caucasus Programme Office	
Mr. Valerian Mchedlidze, Head of Agency of Protected Areas, Ministry of Environment Protection and Agriculture of Georgia	
Mr. Jemal Nakashidze, Head of Environment Protection and Natural Resources Division of Adjara AR	
10:45-11:00 – Introduction and approval of workshop agenda	Mr. Nugzar Zazanashvili, Conservation Director, WWF Caucasus
11:00-11:30 - Session 1: Introduction and Outstanding Value of Colchic Forests and Wetlands	
11:00-11:20 - The Colchic Forests and Wetlands – Treasure of Nature	Mr. Nugzar Zazanashvili
11:20-11:30 – Global importance of the Colchic Wetlands	Ms. Izolda Matchutadze, Head of Colchic Peat and Water Ecosystem Conservation Department of Institute of Phytopathology and Biodiversity, Batumi Shota Rustaveli State University
11:30-12:30 - Session 2: Dossier on Nomination of Colchic Forests and Wetlands for inscription on the UNESCO World Heritage List	
11:30-12:00 – Introducing the nomination dossier of Colchic Forests and Wetlands: nominated properties and key highlights	Mr. Nika Malazonia, National Consultant on UNESCO World Heritage Issues
12:00 -12:30 – Discussion	
12:30-14:00 - Lunch	
14:00-15:00 - Session 3: UNESCO, the World Heritage Convention and Experience of Georgia	
14:00-14:30 - UNESCO, the World Heritage Convention and experience of Georgia	Ms. Rusudan Mirzikashvili, Expert on UNESCO World Heritage Issues
14:30 -15:00 – Discussion	
15:00-15:30 - Session 4: Integrated Management and Monitoring Framework	
15:00-15:20 – Update on development and revision of Management Plans of Protected Areas with the Proposed Natural World Heritage Sites	Ms. Nato Sultanishvili, Head of Planning and Development Unit, Agency of Protected Areas, Ministry of Environment Protection and Agriculture of Georgia
15:20 -15:30 – Q&A	
15:30-16:00 - Coffee Break	
16:00-17:00 - Session 4: Integrated Management and Monitoring Framework (Continued)	
16:00-16:30 - Integrated Management and Monitoring Framework for the Proposed Natural World Heritage Sites	Ms. Tamar Khakhishvili, Head of International Relations and Project Management Unit, Agency of Protected Areas, Ministry of Environment Protection and Agriculture of Georgia
16:30 -17:00 – Discussion	
17:00-18:00 – Next Steps and Wrap-up	
19:00 - Joint Dinner	

Annex 2 – List of Participants of Stakeholders Workshop, 25 October 2018, Batumi, Georgia

#	Name	Organization
Governmental Institutions		
1	Mr. Valerian Mchedlidze	Chairman of Agency of Protected Areas, Ministry of Environment Protection and Agriculture
2	Mr. Toma Dekanoidze	Deputy Chairman of Agency of Protected Areas, Ministry of Environment Protection and Agriculture
3	Ms. Tamar Khakhishvili	Head of International Relations and Project Management Unit of Agency of Protected Areas, Ministry of Environment Protection and Agriculture of Georgia
4	Ms. Nato Sultanishvili	Head of Planning and Development Unit of Agency of Protected Areas, Ministry of Environment Protection and Agriculture of Georgia
5	Ms. Nona Khelaia	Head of Biodiversity Administration Unit of Biodiversity and Forest Policy Department, Ministry of Environment Protection and Agriculture of Georgia
6	Mr. Giorgi Turmanidze	The First Deputy of State Representative - Governor of Guria Region
7	Mr. Gocha Jashi	Senior Specialist of Regional Projects Coordination Service, Guria Administration of State Representative - Governor
8	Ms. Nino Vibliani	Deputy of State Representative - Governor of Samegrelo-Zemo Svaneti Region
9	Ms. Meri Shengelaia	Press Office Assistant of Samegrelo-Zemo Svaneti Administration of State Representative – Governor
10	Mr. Badri Nakashidze	Deputy Minister of Education, Culture and Sport of Adjara AR
11	Ms. Shushana Surmanidze	Senior Specialist at Education Department of Ministry of Education, Culture and Sport of Adjara AR
12	Mr. Jemal Nakashidze	Head of Environment Protection and Natural Resources Division of Adjara AR
13	Mr. Temur Kurshubadze	Head of Forestry Agency of Environment Protection and Natural Resources Administration of Adjara AR
14	Mr. Jumber Abuladze	Deputy Head of Forestry Agency of Environment Protection and Natural Resources Administration of Adjara
15	Mr. Davit Tserodze	Head of Department of International Organizations Relation, Environment Protection and Natural Resources Administration of Adjara AR
16	Mr. Makhare Chokoraia	Deputy Mayor of Khobi Municipality
17	Mr. Tamaz Khabadze	Representative of Agriculture and Natural Resources Management Department, Khelvachauri Municipality
18	Mr. Vakhtang Shalikhshvili	Senior Specialist of Economic and Property Management Department, Lanchkhuti Municipality
19	Ms. Manana Gogvadze	Senior Specialist of Green Service Unit, Lanchkhuti Municipality
20	Mr. Niaz Tsetskhiladze	Senior Specialist of Economic, Property Management, Tourism and Investment Development Department, Kobuleti Municipality
21	Mr. Giorgi Khazhomia	Head of Municipal Property Record and Natural Resources Management Unit of Financial-Budgetary Department, Poti Municipality
22	Ms. Ketevan Loria	Head of Economic Development Unit of Economic Development and Tourism Department, Poti Municipality
23	Mr. Revaz Moistrapashvili	Director of Kobuleti Protected Areas Administration
24	Mr. Vladimer Khurtsilava	Director of Kolkheti National Park Administration
25	Mr. Gela Ingorokhva	Specialist for Natural Resources of Kolkheti National Park
26	Mr. Amiran Khinikadze	Director of Kintrishi Protected Areas Administration
27	Mr. David Khomeriki	Director of Mtskheta National Park Administration

Experts, Non-Governmental Organizations, Projects		
28	Ms. Rusudan Mirzikashvili	Expert on UNESCO World Heritage Issues
29	Mr. Nika Malazonia	National Consultant on UNESCO World Heritage Issues
30	Ms. Izolda Matchutadze	Head of Colchic Peat and Water Ecosystem Conservation Department of Institute of Phytopathology and Biodiversity, Batumi Shota Rustaveli State University
31	Ms. Nino Memiadze	Head of Herbarium Fund of Local Flora and Conservation Department, Batumi Botanical Garden
32	Mr. Zurab Manvelidze	Chairman of Sustainable Development Association "Mta-Bari"
33	Mr. Irakli Goradze	Project Coordinator of Enhancing Sustainable Management of Adjara Protected Areas (GEF/UNDP)
34	Mr. Mark Anstey	Evaluator of UNDP/GEF Project on Enhancing Sustainable Management of Adjara Protected Areas
35	Mr. Michael J.B. Green	Evaluator of UNDP/GEF Project on Enhancing Sustainable Management of Adjara Protected Areas
36	Mr. Giorgi Shubitidze	National Evaluator of UNDP/GEF Project on Enhancing Sustainable Management of Adjara Protected Areas (DEDA Consulting)
WWF Caucasus Programme Office		
37	Mr. Giorgi Sanadiradze	Regional Director
38	Mr. Nugzar Zazanashvili	Conservation Director
39	Ms. Maka Bitsadze	Conservation Officer

Annex 3 – Photos of Stakeholders Workshop, 25 October 2018, Batumi, Georgia



Appendix 8. Commitment letter regarding integrated management



საქართველოს გარემოს დაცვისა და სოფლის მეურნეობის მინისტრი
MINISTER OF ENVIRONMENTAL PROTECTION AND AGRICULTURE OF GEORGIA

N 167/01
04/01/2019

167-01-2-201901041733



To: Ms. Mechtild Rossler
Director
UNESCO World Heritage Centre

Dear Ms. Rossler,

Allow me, on behalf of the Ministry of Environmental Protection and Agriculture of Georgia, to present my sincere compliments to the UNESCO World Heritage Center and personally to You and express great gratitude for your continuous support and kind cooperation throughout many years.

As mentioned during the previous correspondences the Colchic Rainforests and Wetland of Georgia are distinguished with its unique ecosystems and rich biodiversity which represent the part of the Caucasus eco-region and Black Sea basin. This gives us the opportunity to nominate above mentioned sites for the UNESCO World Heritage Site. The component areas of the proposed series complement each other in expressing the attributes of potential OUV and create a united eco-corridor which is totally in compliance with the integrity requirements under World Heritage criteria.

With regard to the management system for ensuring coordinated management for the serial properties, we would like to inform that Integrated Management and Monitoring Framework document has been elaborated and discussed by the Ministry and the Agency of Protected Areas and we confirm that it is in line with our priorities. We express our readiness to approve the document and manage the proposed areas within the Integrated Management and Monitoring Framework along with the existing management plans once UNESCO will grant the site the status of World Heritage Site.

Once again, I avail myself with this opportunity to renew to you and the UNESCO World Heritage Center the assurance of my highest consideration.

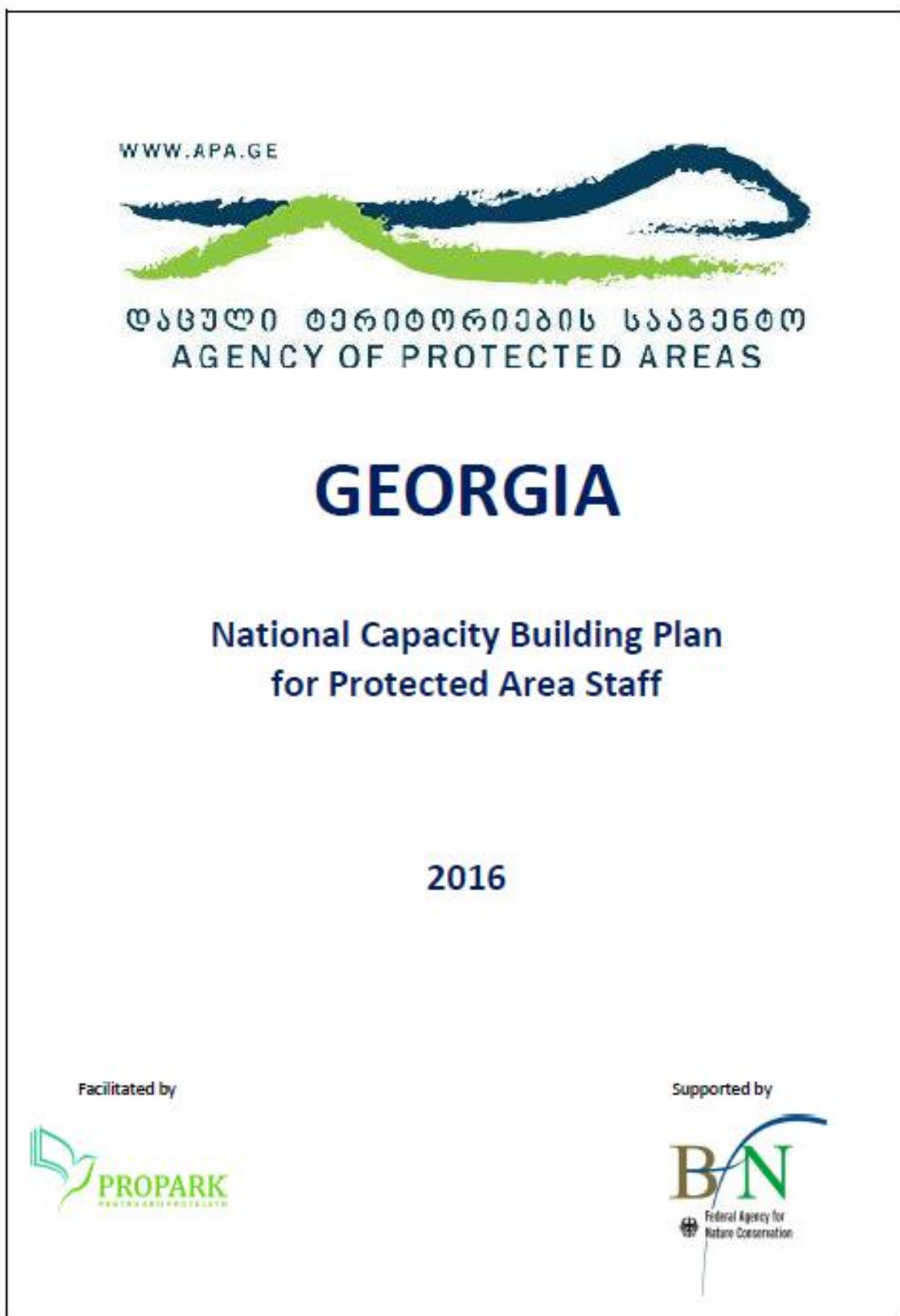
Attachment: 7 (seven) pages.

Sincerely,

Levan Davitashvili
Minister

A handwritten signature in blue ink, appearing to read 'Levan Davitashvili', with a stylized flourish at the end.

Appendix 9: Capacity Building Plan for Protected Area Staff (Summary)



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1 SUMMARY

Effective and sustainable management of protected areas largely depends on the capacity of their staff; well-qualified, competent, skilled and committed staff are key to the successful delivery of results.

Although the protected area system in Georgia has 20 years of history, capacity building still remains a priority for improvement of management of protected areas nationwide. There are 87 protected areas in Georgia, occupying up to 8.62% of the country's territory. More than 400 persons are employed within the system, mainly located in territorial administrations of the protected areas, while 40 persons are based in the central administrative body in Tbilisi. The gender balance is highly unbalanced (84% male/16% female), partly explained by the fact that all rangers are male. Staff are quite well educated (69% with university education and remainder at high school level) and there is a balance of ages and experiences, with good numbers of older and more experienced staff.

Although many training events have taken place, targeted at the majority of the staff within the APA system, recent capacity assessments have identified an overall need for improved capacity among protected area staff at all levels. Distribution of training has been uneven among different levels of staff, training events have not always been well structured and have been mainly dependent on international support.

There is no structured capacity building program within the protected area system, and the Agency for Protected Areas (APA) does not have tools for professional evaluation of the staff. The system of individual performance evaluation and assessment in PAs is not yet well established.

Vocational and higher education specifically related to protected area management is still very limited and is offered only by the few relevant institutions or universities. In addition, some capacity building programmes are offered by the different training centres or by the APA itself through different donor-funded projects.

The preparation of this Capacity Building Plan was facilitated by the ProPark Foundation through a national working group and as a result of an extensive series of assessments, stakeholder workshops and consultations. The project has been implemented with the support of the German Federal Agency for Nature Conservation (BfN).

The Vision of the plan is that

'The System of Protected Areas of Georgia is planned and managed by competent and qualified professionals who ensure effectively contribution of protected areas to protection of biodiversity, sustainable use of natural resources and improved quality of life of local communities.'

Overall, the plan aims to:

- Create an institutional framework for competence based protected area management.
- Establish a systematic programme of capacity development and professional development for all protected area personnel, linked to occupational standards.
- Establish an internal system to support training and learning for all PA staff.
- Develop a functional and effective monitoring and evaluation system which ensures the effectiveness of professional development.
- Ensure permanent support for professional development by mobilizing the financial, material and technical resources.

Programme 1: Developing the framework for protected area professionalization	Programme 2: Capacity building programmes	Programme 3: Monitoring and resources for professional development
Objective: <i>An institutional framework for competence based protected area management is in place and functional by 2020 with the aim of providing provide support for professional and motivated people for the efficient management of protected areas.</i>	Objective: <i>A systematic and wide range of learning opportunities is in place for protected area staff, based on a competence approach and able to meet practical management requirements.</i>	Objective: <i>Effective systems are in place, which ensure the quality of professional development and the permanent allocation of resources needed for the capacity building system to deliver its outcomes.</i>
	Subprogramme 2.1. Provision of capacity development. Objective: <i>Establish a systematic programme of capacity development and professional development for all protected area personnel, linked to occupational standards.</i> Subprogramme 2.2. Support for capacity development. Objective: <i>Establish an internal system for APA to support training and learning for all protected area staff.</i>	Subprogramme 3.1. Monitoring and evaluation. Objective: <i>Develop a functional and effective monitoring and evaluation system which ensures the effectiveness of professional development.</i> Subprogramme 3.2. Resources. Objective: <i>Ensure permanent support for professional development by mobilizing the financial, material and technical resources.</i>