#  30คうスก るコ6コるกし  




# \＆ปたるગb8ીし Jしつ＠－ 3コคコスก ১Э6Эるกし  

 しJbつৎるよœ3コ6コৎ円


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## LJKRO3n

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 змбзэбъпь (дуқбп, 1979) ..... 7
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[^0]

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 mental Information Observation Network (EIONET)².




















[^1]















 бృলை @мзŋனృб๐னп (EUNIS Habitat Classification - (Davies et al., 2007).







|  |  зм@п EUNIS-пb <br>  дпbэœзпо |
| :---: | :---: |
|  <br>  | A1.11 |
|  | A2.5 |
|  | A3 |
|  | B1.6 |
|  | C1.1 |
|  | C1.224 |
|  | C1.225 |
|  | C1.5 |
|  | C1.66 |

[^2]|  <br>  | C3.4 |
| :---: | :---: |
|  | C3.55 |
|  | C3.62 |
|  <br>  | D4.1 |
|  оцммறォо | D4.2 |
|  | D6.1 |
|  <br>  | E1.2 |
|  | E1.3 |
|  | E1.71 |
|  | E1.83 |
|  | E3.4 |
|  | E3.5 |
|  | E5.4 |
|  | E6.2 |
|  | F3.241 |
|  <br>  | F7 |
|  | F9.1 |
|  <br>  | F9.3 |
|  | G1.11 |
|  | G1.12 |
|  <br>  | G1.21 |
|  | G1.3 |
|  | G1.44 |
|  | G1.6 |
|  | G1.8 |
|  <br>  | G1.A1 |
|  | G1.A4 |
|  | G1.A7 |
|  | G3.17 |
|  | G3.1H |
|  | G3.4E |
|  <br>  | G3.9 |
|  <br>  | H1 |
|  | X04 |



| Usbjmòs | 3м＠の |  |
| :---: | :---: | :---: |
| Accipiter brevipes | A402 |  |
| Accipiter gentilis arrigonii | A400 | ปొ๗ை |
| Accipiter nisus granti | A401 | додьбм |
| Acipenser sturio | 1101 |  |
| Acrocephalus melanopogon | A293 |  |
| Aegithalos caudatus | A324 |  |
| Aegolius funereus | A223 | дузпмоп |
| Aegypius monachus | A079 | ᄂЗО30 |
| Agriades glandon aquilo | 1930 |  |
| Agrimonia pilosa | 1939 |  |
| Alcedo atthis | A229 | Јщзうбп |
| Aldrovanda vesiculosa | 1516 |  |
| Anas platyrhynchos | A053 |  |
| Anas querquedula | A055 |  |
| Anas strepera | A051 | ¢うbo obzo |
| Anser albifrons flavirostris | A395 |  |
| Anser erythropus | A042 |  |
| Anthus campestris | A255 |  |
| Aquila chrysaetos | A091 | дonob Ј¢бпзо |
| Aquila clanga | A090 |  |
| Aquila heliaca | A404 |  |
| Aquila nipalensis | A509 | зэмп๐ Ј¢б๐зп |
| Aquila pomarina | A089 |  |
| Ardea purpurea | A029 |  |
| Ardeola ralloides | A024 | yзполумп уобR〕 |
| Asio flammeus | A222 | ¢umȯnu dy |
| Aythya ferina | A059 | бполлмолизง узобопл |
| Aythya fuligula | A061 | дпвмпை узобопо |
| Aythya nyroca | A060 |  |
| Barbastella barbastellus | 1308 | дงßูuonjmu |
| Barbus capito | 1143 | ¢৩б๐¢๐ |
| Botaurus stellaris | A021 |  |
| Bubo bubo | A215 | 8Ј币бゝдм |
| Burhinus oedicnemus | A133 |  |
| Buteo buteo | A087 |  |
| Buxbaumia viridis | 1386 |  |
| Calandrella brachydactyla | A243 |  |
| Calidris alpina schinzii | A466 | ววปろпдのง |
| Callimorpha quadripunctaria | 1078 |  |
| Canis lupus | 1352 | ๙うbの дるコ¢ |

[^3]| Capra aegagrus | 1372 | бп兀дм๓๐ |
| :---: | :---: | :---: |
| Caprimulgus europaeus | A224 |  |
| Carduelis carduelis | A364 |  |
| Carduelis chloris | A363 | дбзьбум๐ |
| Cerambyx cerdo | 1088 | ajbnb＠⿴＠冂 bu币udj8u |
| Certhia brachydactyla dorotheae | A469 | дмзмелоппол ддмппбизง |
| Certhia familiaris | A334 |  |
| Chalcalburnus chalcoides | 1141 | дงдงกง |
| Charadrius alexandrinus | A138 | 8¢зоь бпболмм |
| Charadrius morinellus | A139 |  |
| Chlidonias hybridus | A196 |  |
| Chlidonias leucopterus | A198 |  |
| Chlidonias niger | A197 |  |
| Ciconia ciconia | A031 |  |
| Ciconia nigra | A030 | дuzo gorgodo |
| Circaetus gallicus | A080 |  |
| Circus aeruginosus | A081 |  |
| Circus cyaneus | A082 |  |
| Circus macrourus | A083 |  |
| Circus pygargus | A084 |  |
| Columba livia | A206 |  |
| Columba oenas | A207 | 3Јलొกм（33пdっбп） |
| Columba palumbus | A208 | ปЈ＠งбп |
| Coracias garrulus | A231 | go3yo3n |
| Corvus corax | A350 | y๓๓uб๐ |
| Corvus corone | A349 | д๐30 93030 |
| Coturnix coturnix | A113 | จб์¢วก๐ |
| Crex crex | A122 | мum＠u |
| Cuculus canorus | A212 | зэвうммо |
| Cygnus columbianus bewickii | A037 |  |
| Cygnus cygnus | A038 |  |
| Delichon urbica | A253 |  |
| Dendrocopos leucotos | A239 |  |
| Dendrocopos major thanneri | A428 | ＠っ＠⿴ ¢¢ |
| Dendrocopos medius | A238 |  |
| Dendrocopos syriacus | A429 | ঢпппумпп зм＠имை |
| Dicranum viride | 1381 | дбъงбว＠пзศงбудп |
| Dracocephalum austriacum | 1689 |  |
| Drepanocladus vernicosus | 1393 |  |
| Dryocopus martius | A236 | дозп зм＠ими |
| Egretta alba | A027 |  |
| Egretta garzetta | A026 |  |
| Emberiza hortulana | A379 | dugnt b「uou |
| Emys orbicularis | 1220 | \＄umȯn 3 |
| Erebia medusa polaris | 1932 |  |


| Falco biarmicus | A101 |  |
| :---: | :---: | :---: |
| Falco cherrug | A511 | ১งヱ๐（зงЗง8п） |
| Falco columbarius | A098 | имлмпо |
| Falco naumanni | A095 |  |
| Falco peregrinus | A103 | дัろ兀凹＠った |
| Falco tinnunculus | A096 |  |
| Falco vespertinus | A097 |  |
| Ficedula albicollis | A321 |  |
| Ficedula parva | A320 |  |
| Ficedula semitorquata | A442 |  |
| Fringilla coelebs ombriosa | A448 | $\iota_{3306 \text { ¢ }}$ |
| Gallinago media | A154 |  |
| Gavia arctica | A002 |  |
| Gavia stellata | A001 |  |
| Gelochelidon nilotica | A189 |  |
| Glareola nordmanni | A515 |  |
| Glareola pratincola | A135 |  |
| Grus grus | A127 |  |
| Gypaetus barbatus | A076 |  |
| Gyps fulvus | A078 | мฺరัก |
| Haliaeetus albicilla | A075 |  |
| Hesperia comma catena | 1933 | дььзпмползь бзлюง |
| Hieraaetus pennantus | A092 |  |
| Himantopus himantopus | A131 |  |
| Ixobrychus minutus | A022 |  |
| Kosteletzkya pentacarpos | 1581 |  |
| Lacerta clarkorum | 2402 |  |
| Lanius collurio | A338 |  |
| Lanius minor | A339 |  |
| Larus genei | A180 |  |
| Larus melanocephalus | A176 |  |
| Leucorrhinia pectoralis | 1042 |  |
| Ligularia sibirica | 1758 |  |
| Limosa lapponica | A157 | 8ммпибзう＠u мпи |
| Lindenia tetraphylla | 1043 |  |
| Lullula arborea | A246 |  |
| Luscinia svecica | A272 |  |
| Lutra lutra | 1355 | 6ı3п |
| Lycaena dispar | 1060 |  |
| Lynx lynx | 1361 |  |
| Marsilea quadrifolia | 1428 |  |
| Mauremys caspica | 1222 | 3ub30nb 30 |
| Meesia longiseta | 1389 |  |
| Melanitta fusca | A066 |  |
| Melanocorypha calandra | A242 |  |


| Mergus albellus | A068 |  |
| :---: | :---: | :---: |
| Merops apiaster | A230 |  |
| Milvus migrans | A073 | dクエ๐ |
| Milvus milvus | A074 |  |
| Miniopterus schreibersi | 1310 |  |
| Mustela lutreola | 1356 | 6ıjмை |
| Myotis bechsteini | 1323 |  |
| Myotis blythii | 1307 |  |
| Myotis emarginatus | 1321 |  |
| Neophron percnopterus | A077 |  |
| Nycticorax nycticorax | A023 | ¢งдоర goбRง |
| Otis tarda | A129 | buzu00n |
| Oxyura leucocephala | A071 |  |
| Paeonia tenuifolia | 2098 |  |
| Pandion haliaetus | A094 | д०30 |
| Panthera pardus | 2023 | fodo |
| Parus ater | A328 |  |
| Pelecanus crispus | A020 |  |
| Pelecanus onocrotalus | A019 |  |
| Perdix perdix | A112 | збммп |
| Pernis apivorus | A072 |  |
| Phalacrocorax pygmeus | A393 |  |
| Phalaropus lobatus | A170 |  |
| Philomachus pugnax | A151 |  |
| Phocoena phocoena | 1351 |  |
| Phoenicopterus ruber | A035 |  |
| Platalea leucorodia | A034 | フЈケை |
| Plegadis falcinellus | A032 |  |
| Pluvialis apricaria | A140 |  |
| Podiceps auritus | A007 |  |
| Porphyrio porphyrio | A124 |  |
| Porzana parva | A120 |  |
| Porzana porzana | A119 | ปงळ๐วขŋ๓ง |
| Porzana pusilla | A121 |  |
| Prunella modularis | A266 | ¢yпU \＄3пбоиз |
| Pterocles alchata | A205 |  |
| Pterocles orientalis | A420 |  |
| Puffinus yelkouan | A464 |  |
| Pyrrhocorax pyrrhocorax | A346 |  |
| Recurvirostra avosetta | A132 |  |
| Rhinolophus blasii | 1306 |  |
| Rhinolophus euryale | 1305 |  |
| Rhinolophus ferrumequinum | 1304 | ＠п¢о |
| Rhinolophus hipposideros | 1303 |  |
| Rhinolophus mehelyi | 1302 |  |


| Rosalia alpina | 1087 |  |
| :---: | :---: | :---: |
| Sitta krueperi | A444 |  |
| Stephanopachys linearis | 1926 |  |
| Sterna albifrons | A195 |  |
| Sterna caspia | A190 |  |
| Sterna hirundo | A193 |  |
| Sterna sandvicensis | A191 |  |
| Steveniella satyrioides | 2333 |  |
| Sylvia nisoria | A307 |  |
| Tadorna ferruginea | A397 | бполумпп обзо |
| Tadorna tadorna | A048 | Јдммıgm пbзо |
| Testudo graeca | 1219 |  |
| Tetrax tetrax | A128 |  |
| Tringa glareola | A166 |  |
| Triturus karelinii | 1171 | фпобпбо |
| Troglodytes troglodytes fridar－ iensis | A434 | \＄0б\＄币ుす。 |
| Turdus merula | A283 | дงдัก |
| Turdus philomelos | A285 |  |
| Turdus viscivorus | A287 | виง币озо |
| Tursiops truncatus | 1349 | งобимпобง |
| Ursus arctos | 1354 |  |
| Vaccinium arctostaphylos | 2172 | димимпо дмвзз |
| Vipera kaznakovi | 2008 |  |
| Xenus cinereus | A167 |  |
| Vipera ursinii rakosiensis | 4121 |  |

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| Callimorpha quadripunctaria | 1078 |  |
| :---: | :---: | :---: |
| Canis lupus | 1352 |  |
| Rosalia alpina | 1087 |  |
| Ursus arctos | 1354 |  |
| Barbastella barbastellus | 1308 |  |
| Lynx lynx | 1361 |  |
| Barbus capito | 1143 | 夕ుбుறூ |
| Cerambyx cerdo | 1088 |  |
| Emys orbicularis | 1220 | §umòn 3 |
| Hesperia comma catena | 1933 |  |
| Leucorrhinia pectoralis | 1042 |  |
| Lindenia tetraphylla | 1043 |  |
| Lycaena dispar | 1060 |  |


| Myotis blythii | 1307 |  |
| :---: | :---: | :---: |
| Rhinolophus ferrumequinum | 1304 |  |
| Rhinolophus hipposideros | 1303 |  |
| Stephanopachys linearis | 1926 |  |
| Triturus karelinii | 1171 |  |
| Vaccinium arctostaphylos | 2172 |  |

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|  <br>  | D4．2 |
| :---: | :---: |
|  | F9．1 |
|  | G1．3 |
|  | G1．6 |

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| Canis lupus | 1352 | （nybo diomo |
| :---: | :---: | :---: |
| Ursus arctos | 1354 |  |
| Gazella subguturoza | 2649 |  |
| Lutra lutra | 1355 | 6̌30 |
| Lynx lynx | 1361 |  |
| Panthera pardus | 2023 | fodo |
| Rhinolophus mehelyi | 1302 |  |
| Testudo graeca | 1219 |  |
| Chalcalburnus chalcoides | 1141 | ðงప৩ก |
| Emys orbicularis | 1220 | \＄0¢ȯn 3 |
| Lycaena dispar | 1060 |  |
| Mauremys caspica | 1222 | 3063006 37 |
| Myotis blythii | 1307 |  |
| Myotis emarginatus | 1321 |  |
| Paeonia tenuifolia | 2098 |  |
| Rhinolophus ferrumequinum | 1304 | ＠п＠п вbзппбuмை |
| Rhinolophus hipposideros | 1303 |  |
| Stephanopachys linearis | 1926 | उलオオ9 |

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|  | E1．2 |
| :---: | :---: |
|  <br>  | F7 |
|  <br>  | G3．9 |
|  | E6．2 |

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| Canis lupus | 1352 | （nybo diome |
| :---: | :---: | :---: |
| Ursus arctos | 1354 |  |
| Barbastella barbastellus | 1308 |  |
| Lynx lynx | 1361 |  |
| Leucorrhinia pectoralis | 1042 |  |
| Lycaena dispar | 1060 |  |
| Miniopterus schreibersi | 1310 |  |
| Myotis blythii | 1307 |  |
| Myotis emarginatus | 1321 |  |
| Rhinolophus ferrumequinum | 1304 | ＠п＠п збзппбими |
| Rhinolophus hipposideros | 1303 |  |
| Triturus karelinii | 1171 |  |

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|  | G1．6 |
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|  <br>  | G3．9 |



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 (Elzinga et al., 1998)













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৬ŋ๓. 2. ง, ઠ, ৪.






 (Elzinga et al., 1998)























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 s - ભn3うס̀n (Elzinga et al., 1998)
























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 (Elzinga et al., 1998)


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 tance - Әงбdnmo; total transect length



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- GPS - 1 вЈмп



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|  | 10.05.2014 |
| :---: | :---: |
|  | Paeonia tenuifolia |
|  |  |
|  | N41.99245 E44.42047 |
|  | 19.5 |
|  |  <br>  <br>  <br>  <br>  <br>  <br>  <br>  <br>  |
|  | 650-730 |
|  |  |
| @งb๙ommós ( ${ }^{\circ}$ ) | 20-30 |
|  |  |
|  <br>  |  <br>  |
|  |  spina-christi, Spiraea hypericifolia, Crataegus sp., Rosa sp.) @u bb3. |
|  | 60-70 |
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| 33Ј＠ாலరの \＃ | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
|  <br>  |  |  |  |  |  |  |  |  |  |  |
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| 33コ＠๓ンరの \＃ | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 |
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|  | ট১bjmd̀：Paeonia tenuifolia |  |  |  |  |  |  |  |  |  |
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| 330＠றைరのし \＃ | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|  <br>  <br>  | 1 | 1 | 1 |  |  |  | 1 |  | 1 | 1 |
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|  <br>  <br>  | 1 | 1 | 1 | 1 |  |  | 1 |  | 1 | 1 |
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| 330＠かっすのひ \＃ | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
|  <br>  <br>  | 1 |  |  |  | 1 |  |  |  |  |  |
|  <br>  <br>  <br>  | 1 |  |  |  |  |  | 1 |  |  |  |
|  <br>  <br>  | 1 |  |  |  | 1 |  | 1 |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
| 330＠かっすのし \＃ | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 |
|  <br>  <br>  | 1 |  |  | 1 |  | 1 |  |  |  |  |
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|  |  |  |  |  |  |  |  |  |  | 40.00 |
|  |  |  |  |  |  |  |  |  |  | 26.67 |
|  |  |  |  |  |  |  |  |  |  | 50.00 |


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| :---: | :---: | :---: | :---: |
|  | 2018 | 2019 | 2020 |
|  | 40.00 | 26.67 | 20.00 |
|  | 26.67 | 20.00 | 16.67 |
|  | 50.00 | 40.00 | 33.33 |





|  6умп | טЈbృmठง： |  |
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|  |  | טnduмฺை 8．＠．： |
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## Зуलしゃб๐мп：




| ¢๓uбboddob \＃ |  | duбdn | mo o |  | Jon 30 | い63「ロ | 3－byc | $\cdots \mathrm{ln}$ ¢ | （nd）： |  |  |  |
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|  | Qubu6́gnbo |  |  |  |  |  |  |  |  |  |  |  |
|  | ＠ubunymo |  |  |  |  |  |  |  |  |  |  |  |
| дงб๐пм¢п |  |  |  |  |  |  |  |  |  |  |  |  |
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| oुmø¢！\＃ |  |  |  |  |  |  |  |  |  |  |  |  |
|  | ＠ubuf̌ynbo |  |  |  |  |  |  |  |  |  |  |  |
|  | Qubu๙ym\％ |  |  |  |  |  |  |  |  |  |  |  |
| বงбdnmo |  |  |  |  |  |  |  |  |  |  |  |  |
| ＠u8กงбృ穴 |  |  |  |  |  |  |  |  |  |  |  |  |
| оुмঠмb \＃ |  |  |  |  |  |  |  |  |  |  |  |  |
|  | ＠ubu6́gnon |  |  |  |  |  |  |  |  |  |  |  |
|  | ＠ubunymo |  |  |  |  |  |  |  |  |  |  |  |
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|  | ＠ubuf̌ynon |  |  |  |  |  |  |  |  |  |  |  |
|  | ＠ubuñmの |  |  |  |  |  |  |  |  |  |  |  |
| Әงбdпм¢п |  |  |  |  |  |  |  |  |  |  |  |  |
| ＠u8ก৩бృర̇ง |  |  |  |  |  |  |  |  |  |  |  |  |
| oुmomb \＃ |  |  |  |  |  |  |  |  |  |  |  |  |
|  | ＠ubu6̂gnon |  |  |  |  |  |  |  |  |  |  |  |
|  | ＠ubunymo |  |  |  |  |  |  |  |  |  |  |  |
| Әงбdпм¢п |  |  |  |  |  |  |  |  |  |  |  |  |
| ＠ง8กงбృ分 |  |  |  |  |  |  |  |  |  |  |  |  |
| oुmomb \＃ |  |  |  |  |  |  |  |  |  |  |  |  |
|  | ＠ubuf̌gnon |  |  |  |  |  |  |  |  |  |  |  |
|  | Qubunymo |  |  |  |  |  |  |  |  |  |  |  |
| বงбdnmo |  |  |  |  |  |  |  |  |  |  |  |  |
| ＠ง8กงбృ穴 |  |  |  |  |  |  |  |  |  |  |  |  |
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| 17/07/2018 |  | ট১bృmò：Vaccinium arctostaphylos |  |  |  |  |  |  |  |  |  |  |
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| 3ヵल⿺𠃊бుмп： |  |  |  |  |  |  |  |  |  |  |  |  |
|  <br>  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| ID01 | Qubu6́ynbo | 2.10 | 5.70 | 15.20 | 23.10 | 28.90 | 35.10 | 40.70 |  |  |  |  |
|  | ＠ububnymo | 4.50 | 6.00 | 18.80 | 25.70 | 32.10 | 37.20 | 41.30 |  |  |  |  |
| дงбdпм¢о |  | 2.40 | 0.30 | 3.60 | 2.60 | 3.20 | 2.10 | 0.60 | 0.00 | 0.00 | 0.00 | 14.80 |
| ＠u80งбうd̀ |  |  |  |  |  |  |  |  |  |  |  | 0.00 |
| oुmomb \＃ |  |  |  |  |  |  |  |  |  |  |  |  |
| ID02 | ＠ubu6́gnono | 5.30 | 8.10 | 24.50 | 29.00 | 37.80 | 45.00 |  |  |  |  |  |
|  | ＠ububnymo | 6.10 | 10.30 | 25.00 | 31.80 | 39.30 | 47.60 |  |  |  |  | 10.40 |
| Әงбdпм̆п |  | 0.80 | 2.20 | 0.50 | 2.80 | 1.50 | 2.60 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ＠u80งбృoे |  |  |  |  |  |  |  |  |  |  |  |  |
| oुmomb \＃ |  |  |  |  |  |  |  |  |  |  |  |  |
| ID03 | ＠ubu6̂gnon | 15.50 | 36.70 | 40.80 |  |  |  |  |  |  |  |  |
|  | ＠ububnymo | 18.30 | 38.30 | 43.10 |  |  |  |  |  |  |  |  |
|  |  | 2.80 | 1.60 | 2.30 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 6.70 |
| ＠ง8กงбృరろ |  |  |  |  |  |  |  |  |  |  |  | 0.00 |
| oुmomb \＃ |  |  |  |  |  |  |  |  |  |  |  |  |
| ID04 | ＠ubub́gnon |  |  |  |  |  |  |  |  |  |  |  |
|  | ＠ububnymo |  |  |  |  |  |  |  |  |  |  |  |
| Әงбdпм¢п |  | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ＠ง8ก৩бృరెง |  |  |  |  |  |  |  |  |  |  |  | 0.00 |
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| ID05 | Qubu6́gnon |  |  |  |  |  |  |  |  |  |  |  |
|  | Qububnymo |  |  |  |  |  |  |  |  |  |  |  |
| дงбdпм¢п |  | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ＠ง8กงбృరె |  |  |  |  |  |  |  |  |  |  |  | 0.00 |
| Oூmomb \＃ |  |  |  |  |  |  |  |  |  |  |  |  |
| ID06 | ＠ubu6̂́nobn |  |  |  |  |  |  |  |  |  |  |  |
|  | ＠ububウymo |  |  |  |  |  |  |  |  |  |  |  |
| Әงбdпм¢п |  | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ＠ง80งбృరెง |  |  |  |  |  |  |  |  |  |  |  | 0.00 |
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| ID07 | ＠ubu6̂́nobn |  |  |  |  |  |  |  |  |  |  |  |
|  | ＠ububらymo |  |  |  |  |  |  |  |  |  |  |  |
| дงбdпмпп |  | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
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| oुmomb \＃ |  |  |  |  |  |  |  |  |  |  |  |  |
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| ＠u®ुumjMmరు，\％ |  |  |  |  |  |  |  |  |  |  |  | 21.27 |
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|  | 2018 | 2019 | 2020 |
|  | 21.27 | 22.80 | 23.40 |
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Latitude： $41.892417^{\circ}$／Longitude： $46.305533^{\circ}$










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 （Heracleum sosnowskyi）（Kvachakidze 2010）．

## дмбпомпппбзо

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## ＠コбJKOñ 1.



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| :---: | :---: | :---: | :---: | :---: | :---: |
| Milvus migrans | Black Kite | dg๙ை | YR－R，M | LC |  |
| Circaetus gallicus | Short－toed Snake－ Eagle |  <br>  | BB，M | LC |  |
| Accipiter brevipes | Levent Sparrowhawk |  <br>  мэзงбДกдпбм） | BB，M | LC | VU |
| Accipiter nisus | Eurasian Sparrowhawk | Әпдпбल | YR－R，M | LC |  |
| Accipiter gentilis | Northern Goshawk | dைณ๐ | YR－R，M | LC |  |
| Buteo buteo | Common Buzzard |  | YR－R，M | LC |  |
| Buteo lagopus | Rough－legged Buzzard |  3030ßo | WV，M | LC |  |
| Buteo rufinus | Long－legged Buzzard |  3030ß० | YR－R，M | LC | VU |
| Pernis apivorus | European Honey－ Buzzard |  ก（ைロ） | BB，M | LC |  |
| Hieraaetus pennatus | Booted Eagle |  | BB，M | LC |  |
| Aquila heliaca | Imperial Eagle |  <br>  | YR－R，M | VU | VU |
| Clanga clanga | Greater Spotted Eagle |  | WV，M | VU | VU |
| Clanga pomarina | Lesser Spotted Eagle |  | BB，M | LC |  |
| Aquila nipalensis | Steppe Eagle |  | M | EN |  |
| Aquila chrysaetos | Golden Eagle |  | YR－R | LC | VU |
| Neophron percnopterus | Egyptian Vulture |  | BB，M | EN | VU |
| Gypaetus barbatus | Bearded Vulture （Lammergeier） |  <br>  <br>  | YR－R | NT | VU |
| Aegypius monachus | Cinereous Vulture （Eurasian Black Vulture） | 63030 | YR－R | NT | EN |
| Gyps fulvus | Eurasian Griffon Vulture | m®òn | YR－R | LC | VU |
| Circus aeroginosus | Western Marsh Harrier |  <br>  | YR－R，M | LC |  |
| Circus cyaneus | Hen（or Northern） Harrier | Әпб＠з （ぃб дпбœз <br>  | WV，M | LC |  |
| Circus macrourus | Pallid Harrier |  <br>  | M | NT |  |
| Circus pygargus | Montagu＇s Harrier |  <br>  | BB，M | LC |  |
| Falco cherrug | Saker Falcon |  | YR－R，M | EN | CR |
| Falco peregrinus | Peregrine Falcon |  <br>  | YR－R，M | LC |  |
| Falco subbuteo | Eurasian Hobby |  | YR－R，M | LC |  |


| Falco columbarius | Merlin | งмим | WV，M | LC |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Falco vespertinus | Red－footed Falcon |  | BB，M | NT | EN |
| Falco naumanni | Lesser Kestrel |  <br>  | BB，M | LC | CR |
| Falco tinnunculus | Common Kestrel |  | YR－R，M | LC |  |
| Lyrurus mlokosiewiczi | Caucasian Grouse | 30330bnymo ๙nmym | YR－R | NT | VU |
| Tetraogallus caucasicus | Caucasian Snowcock |  | YR－R | LC |  |
| Coturnix coturnix | Common Quail | อ6ับว์ก | YR－R，M | LC |  |
| Crex crex | Corn crake | мum＠s | BB，M | LC |  |
| Columba livia | Rock Dove |  | YR－R | LC |  |
| Columba oenas | Stock Dove |  | YR－R | LC |  |
| Columba palumbus | Common Wood－ Pigeon | ปง＠งбก | YR－R | LC |  |
| Cuculus canorus | Common Cuckoo |  | BB，M | LC |  |
| Bubo bubo | Eurasian Eagle Owl | 8งஙֹбงð゙м | YR－R | LC |  |
| Asio otus | Northern Long－ eared Owl |  ммммпп） | YR－R | LC |  |
| Asio flammeus | Short－eared Owl | \＄0mòn ${ }^{\text {dy }}$ | YR－R | LC |  |
| Otus scops | Eurasian Scops－ Owl | 6́ymைдn | BB，M | LC |  |
| Athene noctua | Little Owl | \＄мб力 | YR－R | LC |  |
| Strix aluco | Tawny Owl | oynd dy | YR－R | LC |  |
| Caprimulgus europaeus | European Nightjar |  | BB，M | LC |  |
| Apus apus | Common Swift | Б๐дzumu | BB，M | LC |  |
| Tachymarptis melba | Alpine Swift | дコзп๓ก๐ง（งб <br>  Бงддงмっ） | BB，M | LC |  |
| Merops apiaster | European Bee－ eater |  | BB，M | LC |  |
| Coracias garrulus | European Roller | go3youn | BB，M | LC |  |
| Upupa epops | Common Hoopoe | мणुलणु） | BB，M | LC |  |
| Dryocopus martius | Black Woodpecker |  | YR－R | LC |  |
| Picus viridis | Eurasian Green Woodpecker |  | YR－R | LC |  |
| Dendrocopos syriacus | Syrian Woodpecker |  | YR－R | LC |  |
| Dendrocopos major | Greater Spotted Woodpecker |  | YR－R | LC |  |
| Leiopicus medius | Middle Spotted Woodpecker |  3м＠umu | YR－R | LC |  |
| Dendrocopos leucotos | White－backed Woodpecker |  | YR－R | LC |  |
| Dryobates minor | Lesser Spotted Woodpecker |  | YR－R | LC |  |
| Jynx torquilla | Eurasian Wryneck | dudgou | BB，M | LC |  |
| Eremophila alpestris | Horned（or Shore） Lark |  | YR－R，M | LC |  |
| Lullula arborea | Wood Lark |  | BB，M | LC |  |
| Hirundo daurica | Red－Rumped Swallow |  | Cas | LC |  |


| Hirundo rupestris | Eurasian Crag－ martin |  | BB，M | LC |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Delichon urbicum | Northern Hause－ Martin |  | BB，M | LC |  |
| Anthus trivialis | Tree Pipit |  | BB，M | LC |  |
| Anthus pratensis | Meadow Pipit |  | BB，M | NT |  |
| Anthus cervinus | Red－Throated Pipit | 6nomymzymu Ә6̆yŋゥฉெ๐๐ | M | LC |  |
| Anthus spinoletta | Water Pipit |  | BB，M | LC |  |
| Motacilla alba | White Wagtail |  | YR－R，M | LC |  |
| Motacilla cinerea | Grey Wagtail |  | YR－R，M | LC |  |
| Motacilla flava | Yellow Wagtail |  | BB，M | LC |  |
| Motacilla citreola | Citrine Wagtail | yznosymosju <br>  | BB，M | LC |  |
| Lanius minor | Lesser Grey Shrike |  | BB，M | LC |  |
| Lanius collurio | Red－backed Shrike |  | BB，M | LC |  |
| Prunella modularis | Hedge Accentor （Dunnock） |  | YR－R，M | LC |  |
| Prunella collaris | Alpine Accentor |  | YR－R | LC |  |
| Sylvia communis | Common Whitethroat |  $0630 \$ 030$ | BB，M | LC |  |
| Sylvia curruca | Lesser Whitethroat |  <br>  | BB，M | LC |  |
| Sylvia atricapilla | Blackcap |  | BB，M | LC |  |
| Phylloscopus trochilus | Willow Warbler | 8ง8งoुbymu \＄03\＄030 （8ง8งogbymu go（nงбu） | BB，M | LC |  |
| Phylloscopus collybita | Common Chiffchaff |  <br>  | BB，M | LC |  |
| Phylloscopus sindianus | Mountain Chiffchaff | дonob \＄nz\＄uza（amob y๐（nงб๐） | BB，M | LC |  |
| Phylloscopus trochiloides | Greenish Warbler | дмдб̆зьбм \＄пз\＄৩зп <br>  | BB，M | LC |  |
| Muscicapa striata | Spotted Flycatcher |  дృдง๐мпง） | BB，M | LC |  |
| Ficedula semitorquata | Semi－Collared Flycatcher |  <br>  <br>  <br> дృдง๐мпง） | BB，M | LC |  |
| Saxicola torquatus | Common Stonechat |  | BB，M | LC |  |
| Saxicola rubetra | Whinchat |  <br>  | BB，M | LC |  |
| Oenanthe oenanthe | Northern Wheatear |  дэмм๓мпை | BB，M | LC |  |
| Phoenicurus ochruros | Black Redstart |  | YR－R，M | LC |  |
| Phoenicurus phoenicurus | Common Redstart |  <br>  | BB，M | LC |  |
| Erithacus rubecula | European Robin |  | YR－R | LC |  |
| Luscinia megarhynchos | Common Nightingale |  думд̀うмก | BB，M | LC |  |
| Turdus merula | Eurasian Blackbird | дงд̋ก | YR－R | LC |  |
| Turdus torquatus | Ring Ouzel |  | YR－R | LC |  |
| Turdus pilaris | Fieldfare |  | WV，M | LC |  |


| Turdus iliacus | Redwing |  <br>  | WV，M | NT |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Turdus philomelos | Song Thrush |  <br>  | YR－R，M | LC |  |
| Turdus viscivorus | Mistle Thrush |  | YR－R，M | LC |  |
| Aegithalos caudatus | Long－tailed Tit |  | YR－R，M | LC |  |
| Parus ater | Coal Tit |  6๐6̋зงбง） | YR－R | LC |  |
| Parus major | Great Tit |  6๐๐бろงธง） | YR－R | LC |  |
| Parus caeruleus | Blue Tit |  <br>  | YR－R | LC |  |
| Sitta europaea | Wood Nuthatch |  | YR－R | LC |  |
| Tichodroma muraria | Wall－creeper |  <br>  | YR－R | LC |  |
| Certhia familiaris | Eurasian Tree－ creeper |  дзмппизи | YR－R | LC |  |
| Troglodytes troglodytes | Winter Wren | \＄0б§（nud。 <br>  | YR－R | LC |  |
| Cinclus cinclus | White－throated Dipper | 6́ymob duð̧n | YR－R | LC |  |
| Emberiza cia | Rock Bunting |  | YR－R，M | LC |  |
| Fringilla montifringilla | Brambling |  | WV | LC |  |
| Fringilla coelebs | Eurasian Chaffinch | U3зпбRっ（бпठ̀mпง） | YR－R，M | LC |  |
| Carduelis carduelis | European Goldfinch | 亿поరుЈмб๐ | YR－R，M | LC |  |
| Carduelis spinus | Eurasian Siskin |  | YR－R，M | LC |  |
| Carduelis chloris | European Greenfinch | дб์ßьбумை | YR－R，M | LC |  |
| Carduelis flavirostris | Twite | 2onob \＄30бסు | YR－R | LC |  |
| Carduelis cannabina | Eurasian Linnet | \＄3пб๐৩（дэзงбงणुก৩） | YR－R，M | LC |  |
| Pyrrhula pyrrhula | Eurasian Bullfinch | しや3эбо⿱ | YR－R | LC |  |
| Coccothraustes Coccothraustes | Hawfinch |  | YR－R，M | LC |  |
| Serinus pusillus | Fire－fronted Serin （Red－fronted Serin） |  | YR－R | LC |  |
| Carpodacus erythrinus | Common Rosefinch |  | BB，M | LC |  |
| Passer domesticus | Hause Sparrow |  | YR－R | LC |  |
| Sturnus vulgaris | Common Starling |  | YR－R，M | LC |  |
| Oriolus oriolus | Eurasian Golden Oriole |  | BB，M | LC |  |
| Garrulus glandarius | Eurasian Jay | Rbo330 | YR－R | LC |  |
| Pica pica | Black－billed Magpie | 30\＄30\＄0 | YR－R | LC |  |
| Pyrrhocorax pyrrhocorax | Red－billed Chough |  дงм๓๐б๐ | YR－R | LC |  |
| Pyrrhocorax graculus | Yellow－billed Chough |  дงмૂைงбก | YR－R | LC |  |
| Corvus corax | Common Raven | умறง๐бก | YR－R | LC |  |
| Corvus frugilegus | Rook | \＄nм¢yzozo | YR－R，M | LC |  |
| Corvus corone | Hooded Crow | （nybo y3uzo | YR－R | LC |  |












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## 3ЈฎৎПП3J60

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 ＠ゝ రпగกంOुの（Salix alba）（Kvachakidze，2010）．

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|  | dunbo | O3mobo |  |

## дコзง凸œбృдัก




 8৩＠ొ＠っठ்пの；GPS









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＠ubu6́gnbo： $41.212034^{\circ} / 46.335877^{\circ}$


＠ubu6́ynbo： $41.206977^{\circ} / 46.358144^{\circ}$
＠っもうにリறゥ： $41.063942^{\circ} / 46.484809^{\circ}$
からっбしコすかの 3
Qubu6́ynbn： $41.124321^{\circ} / 46.499322^{\circ}$


## ＠コ6JたONO 2.



|  bubymo |  bubjen | Junoyme bubjen |  ymog6ob <br>  |  IUCN－ob 6ybbols anbう＠3non |  bod． <br> 6nosymo 6ybbob дnbの＠зのの |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Ardea cinerea | Grey Heron | ¢nbo yobßo | YR－R | LC |  |
| Ardea purpurea | Purple Heron |  gobRo | M | LC |  |
| Ardea alba | Great White Egret |  | M；WV | LC |  |
| Egretta garzetta | Little Egret |  | M；WV | LC |  |
| Bubulcus ibis | Cattle Egret |  <br>  | M；WV | LC |  |
| Ardeola ralloides | Squacco Heron | gzoongmo yobio | BB | LC |  |
| Nycticorax nycti－ corax | Black－crowned Night－Heron |  | YR－R | LC |  |
| Ixobrychus minu－ tus | Little Bittern |  | BB | LC |  |
| Botaurus stellaris | Great Bittern |  д̀мง） | YR－R | LC |  |
| Anser anser | Gray Lag Goose | nyybo రudo | M；WV | LC |  |
| Anser albifrons | Greater White－fronted Goose |  | M，WV | LC |  |
| Anser erythropus | Lesser White－fronted Goose |  ふゝす。 | M，WV | VU | EN |
| Tadorna ferru－ ginea | Ruddy Shelduck | 6nomymo nb3n | YR－R | LC | VU |
| Anas platyrhyn－ chos | Mallard |  | M；WV | LC |  |
| Anas crecca | Common Teal |  \＄ก330（n）） | M；WV | LC |  |
| Milvus migrans | Black Kite | djறூ | M | LC |  |
| Circaetus gallicus | Short－toed Snake－Eagle |  | BB | LC |  |
| Accipiter brevipes | Levent Sparrow－ hawk |  <br>  щソЗงбдกд๐бм） | BB | LC | VU |
| Accipiter nisus | Eurasian Sparrow－ hawk | Әпวпбм | YR－R | LC |  |
| Accipiter gentilis | Northern Goshawk | dొறை | YR－R | LC |  |
| Buteo buteo | Common Buzzard |  | YR－R | LC |  |
| Buteo lagopus | Rough－legged Buzzard |  | M | LC |  |
| Buteo rufinus | Long－legged Buz－ zard |  | BB | LC | VU |
| Pernis apivorus | European Hon－ ey－Buzzard |  | BB | LC |  |
| Hieraaetus pen－ natus | Booted Eagle | Rou Ј¢6゙ozo | M | LC |  |
| Aquila heliaca | Imperial Eagle |  <br>  | YR－R | VU | VU |
| Clanga clanga | Greater Spotted Eagle |  | M | VU | VU |


| Clanga pomarina | Lesser Spotted Eagle |  | M | LC |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Aquila nipalensis | Steppe Eagle |  | M | EN |  |
| Aquila chrysaetos | Golden Eagle |  | M | LC | VU |
| Neophron perc－ nopterus | Egyptian Vulture |  | BB | EN | VU |
| Gypaetus barba－ tus | Bearded Vulture （Lammergeier） |  <br>  <br>  | WV | NT | VU |
| Aegypius mona－ chus | Cinereous Vulture （Eurasian Black Vulture） | 43030 | YR－R | NT | EN |
| Gyps fulvus | Eurasian Griffon Vulture | мֹరెం | YR－R | LC | VU |
| Circus aerogino－ sus | Western Marsh Harrier |  <br>  | M | LC |  |
| Circus cyaneus | Hen（or Northern） Harrier | дпб＠з （ьб дпбщз <br>  | M | LC |  |
| Circus macrourus | Pallid Harrier |  <br>  | M | NT |  |
| Circus pygargus | Montagu＇s Harrier |  <br>  | M | LC |  |
| Falco cherrug | Saker Falcon |  | YR－R | EN | CR |
| Falco biarmicus | Lanner Falcon |  | YR－R | LC | VU |
| Falco peregrinus | Peregrine Falcon |  <br>  | M；WV | LC |  |
| Falco subbuteo | Eurasian Hobby |  | BB | LC |  |
| Falco columbarius | Merlin | งмимо | M | LC |  |
| Falco vespertinus | Red－footed Falcon |  | M | NT | EN |
| Falco naumanni | Lesser Kestrel |  | BB | LC | CR？ |
| Falco tinnunculus | Common Kestrel |  | YR－R | LC |  |
| Alectoris chukar | Chukar | з०зЈd̃ | YR－R | LC |  |
| Coturnix coturnix | Common Quail |  | YR－R | LC |  |
| Phasianus colchi－ cus | Pheasant |  | YR－R | LC |  |
| Grus grus | Common Crane |  | M | LC | EN |
| Anthropoides virgo | Demoiselle Crane |  | M |  |  |
| Tetrax tetrax | Little Bustard |  | WV，M | NT | VU |
| Crex crex | Corn crake | ¢๐м¢ை | M | LC |  |
| Pluvialis apricaria | Eurasian Gold－ en－Plover |  | M | LC |  |
| Pluvialis squata－ rola | Grey Plover | （nybo 20\＄303ก （3300ゝゝ๓ゥ） | M | LC |  |
| Vanellus vanellus | Northern Lapwing | Зஙงб6๐๐ | M | NT |  |
| Vanellus gregar－ ius | Sociable Lapwing |  | M | CR |  |
| Actitis hypoleucos | Common Sand－ piper |  （дృठ்м | BB | LC |  |
| Scolopax rusti－ cola | Eurasian Wood－ cock | oynb duonsan （зコм＠めぁっろろ） | M | LC |  |
| Gallinago media | Great Snipe |  | M | NT |  |
| Gallinago galli－ nago | Common Snipe | Rod̀ybs | M | LC |  |
| Lymnocryptes minimus | Jack Snipe |  | M | LC |  |
| Burhinus oedic－ nemus | Stone－Curlew |  | BB | LC | VU |


| Pterocles alchata | Pin－tailed Sand－ grouse |  <br>  | Cas | LC |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Pterocles orien－ talis | Black－bellied Sandgrouse |  | Cas | LC |  |
| Columba livia | Rock Dove |  | YR－R | LC |  |
| Columba oenas | Stock Dove |  | YR－R | LC |  |
| Columba palum－ bus | Common Wood－Pi－ geon | ปง＠งбก | YR－R | LC |  |
| Streptopelia turtur | Eurasian Tur－ tle－Dove |  | BB | VU |  |
| Streptopelia de－ caocto | Eurasian Col－ lared－Dove | bugommmoubn 33modn | YR－R | LC |  |
| Spilopelia sene－ galensis | Laughing Dove |  <br>  | YR－R | LC |  |
| Cuculus canorus | Common Cuckoo | 3⿹8J¢mo | BB | LC |  |
| Bubo bubo | Eurasian Eagle Owl | 8ง¢็бงðัм | YR－R | LC |  |
| Asio otus | Northern Long－ eared Owl |  мммммп） | YR－R | LC |  |
| Asio flammeus | Short－eared Owl | \＄0mȯnl dy | WV | LC |  |
| Otus scops | Eurasian Scops－ Owl | 6́ymைən | BB | LC |  |
| Aegolius funereus | Boreal（or Teng－ malm＇s）Owl | ১ŋзпмбの | YR－R | LC | VU |
| Athene noctua | Little Owl | \＄mon | YR－R | LC |  |
| Strix aluco | Tawny Owl | oynb dy | YR－R | LC |  |
| Caprimulgus eu－ ropaeus | European Nightjar | ทogoby¢๐ | BB | LC |  |
| Apus apus | Common Swift | б๐дるงмฺ | BB | LC |  |
| Tachymarptis melba | Alpine Swift | Әコзп๓ก๐（งб <br>  | BB | LC |  |
| Merops apiaster | European Bee－eat－ er |  | BB | LC |  |
| Merops supercil－ iosus | Blue－cheeked Bee－eater | จбъงбэ з3п๙ппбп | Cas | LC |  |
| Coracias garrulus | European Roller | go3youn | BB | LC |  |
| Upupa epops | Common Hoopoe | мणुறலुत | BB | LC |  |
| Picus viridis | Eurasian Green Woodpecker |  | YR－R | LC |  |
| Dendrocopos syri－ acus | Syrian Woodpeck－ er |  | YR－R | LC |  |
| Dendrocopos major | Greater Spotted Woodpecker |  | YR－R | LC |  |
| Leiopicus medius | Middle Spotted Woodpecker |  3ल＠umu | YR－R | LC |  |
| Calandrella rufescens | Lesser Short－Toed Lark |  రলஙைмை | BB | LC |  |
| Calandrella brachydactyla | Greater Short－Toed Lark |  <br>  | BB | LC |  |
| Melanocorypha calandra | Calandra Lark |  | BB | LC |  |
| Lullula arborea | Wood Lark |  | BB | LC |  |
| Alauda arvensis | Eurasian Skylark |  | YR－R | LC |  |
| Galerida cristata | Crested Lark |  | YR－R | LC |  |
| Hirundo rustica | Barn Swallow |  | BB | LC |  |
| Hirundo daurica | Red－Rumped Swallow |  | Cas | LC |  |
| Hirundo rupestris | Eurasian Crag－martin |  | BB | LC |  |
| Riparia riparia | Sand Martin |  | BB | LC |  |


| Delichon urbicum | Northern Hause－Martin |  | BB | LC |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Anthus trivialis | Tree Pipit |  | BB | LC |  |
| Anthus cervinus | Red－Throated Pipit |  | M | LC |  |
| Anthus campes－ tris | Tawny Pipit |  | BB | LC |  |
| Motacilla alba | White Wagtail |  | YR－R | LC |  |
| Motacilla cinerea | Grey Wagtail |  | YR－R | LC |  |
| Motacilla flava | Yellow Wagtail |  | BB | LC |  |
| Motacilla citreola | Citrine Wagtail | y3nomymosus <br>  | M | LC |  |
| Lanius excubitor | Greater Grey（or Northern）Shrike | のybn＠uJm | WV | LC |  |
| Lanius minor | Lesser Grey Shrike |  | BB | LC |  |
| Lanius senator | Woodchat Shrike |  | BB | LC |  |
| Lanius collurio | Red－backed Shrike |  | BB | LC |  |
| Hippolais pallida | Olivaceous War－ bler |  <br>  | BB | LC |  |
| Hippolais langui－ da | Upcher＇s Warbler |  పりめరすゝゝ <br>  <br>  | BB | LC |  |
| Sylvia communis | Common White－ throat |  －b3y\＄030 | BB | LC |  |
| Sylvia curruca | Lesser White－ throat |  <br>  | BB | LC |  |
| Sylvia borin | Garden Warbler |  | BB | LC |  |
| Sylvia nisoria | Barred Warbler |  | BB | LC |  |
| Sylvia atricapilla | Blackcap |  | BB | LC |  |
| Sylvia hortensis | Orphean Warbler |  | BB | LC |  |
| Sylvia mystacea | Menetries＇s War－ bler |  | BB | LC |  |
| Phylloscopus sindianus | Mountain Chiff－ chaff | дano \＄03\＄uzn（2mob gノ（๓งб๐） | BB | LC |  |
| Phylloscopus trochiloides | Greenish Warbler | дмдб́зьбм \＄пзф๐зп <br>  | BB | LC |  |
| Phylloscopus trochilus | Willow Warbler |  <br>  | BB | LC |  |
| Phylloscopus collybita | Common Chiff－ chaff |  <br>  | BB | LC |  |
| Muscicapa striata | Spotted Flycatch－ er |  <br>  | BB | LC |  |
| Ficedula parva | Red－breasted Fly－ catcher | 6́nosymyomu（งбท <br>  <br>  | M | LC |  |
| Ficedula semitor－ quata | Semi－Collared Flycatcher |  <br>  <br>  <br>  | M | LC |  |
| Saxicola torqua－ tus | Common Stonechat | ðu30つ3u m3bu＠n | BB | LC |  |
| Saxicola rubetra | Whinchat |  <br>  | BB | LC |  |
| Monticola soli－ tarius | Blue Rock－Thrush | зщ＠obl my | BB | LC |  |
| Monticola sax－ atilis | Rufous－tailed Rock－Thrush |  | M | LC |  |


| Oenanthe oenanthe | Northern Wheatear |  дэмை๓м๐๐ | M | LC |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Oenanthe isabellina | Isabelline Wheatear |  | BB | LC |  |
| Oenanthe hispanica | Black-eared Wheatear |  | BB | LC |  |
| Oenanthe pleschanka | Pied Wheatear |  <br>  | BB | LC |  |
| Oenanthe finschii | Finsch's Wheatear |  <br>  <br>  | BB | LC |  |
| Phoenicurus ochruros | Black Redstart |  | YR-R | LC |  |
| Phoenicurus phoenicurus | Common Redstart |  <br>  | BB | LC |  |
| Erithacus rubecula | European Robin | зทм6̋norymo | YR-R | LC |  |
| Luscinia svecica | Bluethroad |  | M | LC |  |
| Luscinia luscinia | Thrush Nightingale |  <br>  | M | LC |  |
| Luscinia megarhynchos | Common Nightingale |  | BB | LC |  |
| Erythropygia galactotes | Rufous-tailed Scrub-Robin |  | BB | LC |  |
| Turdus merula | Eurasian Blackbird | дงд3п | YR-R | LC |  |
| Turdus torquatus | Ring Ouzel |  | M;WV | LC |  |
| Turdus pilaris | Fieldfare |  | WV | LC |  |
| Turdus iliacus | Redwing |  <br>  | WV | NT |  |
| Turdus philomelos | Song Thrush |  <br>  | BB | LC |  |
| Turdus viscivorus | Mistle Thrush | Rbunomzo | YR-R | LC |  |
| Panurus biarmicus | Bearded Reedling |  | YR-R | LC | VU |
| Aegithalos caudatus | Long-tailed Tit | ombnouno | YR-R | LC |  |
| Remiz pendulinus | Eurasian Penduline Tit |  ( $\operatorname{ng} \partial \mathrm{g} 8 \mathrm{n}$ ) | YR-R | LC |  |
| Parus ater | Coal Tit |  | YR-R | LC |  |
| Parus major | Great Tit |  6๐๐бろ๐ธง) | YR-R | LC |  |
| Parus caeruleus | Blue Tit |  <br>  | YR-R | LC |  |
| Sitta europaea | Wood Nuthatch |  | YR-R | LC |  |
| Sitta neumayer | Rock Nuthatch |  | YR-R | LC |  |
| Tichodroma muraria | Wall-creeper |  зм@эзмъпи | WV | LC |  |
| Certhia familiaris | Eurasian Tree-creeper |  | YR-R | LC |  |
| Troglodytes troglodytes | Winter Wren | \$nб§ <br>  | YR-R | LC |  |
| Miliaria calandra | Corn Bunting |  | YR-R | LC |  |
| Emberiza cia | Rock Bunting |  | YR-R | LC |  |
| Emberiza citrinella | Yellowhammer |  | YR-R | LC |  |
| Emberiza melanocephala | Black-headed Bunting | дı30030 | BB | LC |  |


| Emberiza hortu－ Iana | Ortolan Bunting |  | BB | LC |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Emberiza schoe－ niclus | Reed Bunting |  | YR－R | LC |  |
| Fringilla mon－ tifringilla | Brambling |  | WV | LC |  |
| Fringilla coelebs | Eurasian Chaffinch | U33п6R○（бпठ̀mпง） | YR－R | LC |  |
| Carduelis cardu－ elis | European Gold－ finch |  | YR－R | LC |  |
| Carduelis spinus | Eurasian Siskin |  | WV | LC |  |
| Carduelis chloris | European Green－ finch | дб̆зьбу¢๐ | YR－R | LC |  |
| Carduelis flavi－ rostris | Twite | 2onob \＄30бぁ〕 | WV | LC |  |
| Carduelis canna－ bina | Eurasian Linnet |  | YR－R | LC |  |
| Coccothraustes Coccothraustes | Hawfinch |  | YR－R | LC |  |
| Serinus pusillus | Fire－fronted Serin （Red－fronted Serin） |  | WV | LC |  |
| Carpodacus erythrinus | Common Rose－ finch |  | M | LC |  |
| Passer hispanio－ lensis | Spanish Sparrow |  | YR－R | LC |  |
| Passer montanus | Tree Sparrow |  | YR－R | LC |  |
| Passer domesti－ cus | Hause Sparrow |  | YR－R | LC |  |
| Petronia petronia | Rock Sparrow |  | YR－R | LC |  |
| Petronia brachy－ dactyla | Pale Rock Sparrow | дз <br>  дэмму๙๐ | BB | LC |  |
| Sturnus vulgaris | Common Starling |  | YR－R | LC |  |
| Sturnus roseus | Rose－coloured Starling |  （ゆ৩（nön） | BB | LC |  |
| Oriolus oriolus | Eurasian Golden Oriole |  | BB | LC |  |
| Garrulus glandar－ ius | Eurasian Jay | Rbo330 | YR－R | LC |  |
| Pica pica | Black－billed Mag－ pie | 30\＄30\＄0 | YR－R | LC |  |
| Pyrrhocorax pyr－ rhocorax | Red－billed Chough |  จงм๓งб๐ | WV | LC |  |
| Corvus corax | Common Raven | yмウงбп | YR－R | LC |  |
| Corvus frugilegus | Rook | \＄0мmyzozo | WV | LC |  |
| Corvus corone | Hooded Crow | （rybo y3030 | YR－R | LC |  |
| Corvus monedula | Eurasian Jackdaw | \＄30 | YR－R | LC |  |

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Latitude: $42.238738^{\circ}$ / Longitude: $45.253905^{\circ}$













дмбобмппбдо




















## ＠コ6JたONO 3.



|  bubjeno |  bubumo |  |  ymog6ns ududyb |  IUCN－ob 6ybbols дпbう＠зпо | 30円ラるのตกロ bod．6nom． 6ybbols дпbэœзпо |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Milvus migrans | Black Kite | dj¢ை | M | LC |  |
| Circaetus gallicus | Short－toed Snake－Eagle |  | M | LC |  |
| Accipiter brevipes | Levent Sparrow－ hawk |  <br>  мэзงбДกдпбм） | M | LC | VU |
| Accipiter nisus | Eurasian Sparrow－ hawk | Әпдпбल | YR－R | LC |  |
| Accipiter gentilis | Northern Goshawk | dмற๐ | YR－R | LC |  |
| Buteo buteo | Common Buzzard |  | YR－R | LC |  |
| Buteo lagopus | Rough－legged Buzzard |  зозо乃о | M | LC |  |
| Buteo rufinus | Long－legged Buz－ zard |  <br>  | M | LC | VU |
| Pernis apivorus | European Hon－ ey－Buzzard |  ก（ூ๐） | M | LC |  |
| Hieraaetus pen－ natus | Booted Eagle |  | M | LC |  |
| Clanga clanga | Greater Spotted Eagle |  | M | VU | VU |
| Clanga pomarina | Lesser Spotted Eagle |  | M | LC |  |
| Aquila nipalensis | Steppe Eagle |  | M | EN |  |
| Aquila chrysaetos | Golden Eagle | дonob งโ๓6์กzo | YR－R | LC | VU |
| Neophron perc－ nopterus | Egyptian Vulture | OろЈろうбすロ | YR－V | EN | VU |
| Gypaetus barba－ tus | Bearded Vulture （Lammergeier） |  <br>  <br>  | YR－R | NT | VU |
| Aegypius mona－ chus | Cinereous Vulture （Eurasian Black Vulture） | 43030 | YR－V | NT | EN |
| Gyps fulvus | Eurasian Griffon Vulture | mฺర̀n | YR－V | LC | VU |
| Circus aerogino－ sus | Western Marsh Harrier |  <br>  | M | LC |  |
| Circus cyaneus | Hen（or Northern） Harrier | ӘnБ＠3（nob djeg （ ๐б дпбœз <br>  | M | LC |  |
| Circus macrourus | Pallid Harrier |  <br>  | M | NT |  |
| Circus pygargus | Montagu＇s Harrier |  （৩б д＠эммை <br>  | M | LC |  |
| Falco cherrug | Saker Falcon |  | M | EN | CR |
| Falco biarmicus | Lanner Falcon |  | M | LC | VU |
| Falco peregrinus | Peregrine Falcon |  <br>  | YR－R | LC |  |
| Falco subbuteo | Eurasian Hobby |  | BB | LC |  |
| Falco columbarius | Merlin | umumo | M | LC |  |
| Falco vespertinus | Red－footed Falcon |  | M | NT | EN |


| Falco naumanni | Lesser Kestrel |  | M | LC | CR |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Falco tinnunculus | Common Kestrel |  | YR－R | LC |  |
| Lyrurus mlokosiewiczi | Caucasian Grouse |  | YR－R | NT | VU |
| Tetraogallus cau－ casicus | Caucasian Snow－ cock |  | YR－R | LC |  |
| Alectoris chukar | Chukar | 3030రెก | YR－R | LC |  |
| Perdix perdix | Grey Partridge | Збммп | YR－R | LC |  |
| Coturnix coturnix | Common Quail | อ6์yอกัก | BB | LC |  |
| Grus grus | Common Crane |  | M | LC | EN |
| Anthropoides virgo | Demoiselle Crane |  | M | LC |  |
| Crex crex | Corn crake | ¢um＠u | BB | LC |  |
| Actitis hypoleu－ cos | Common Sand－ piper |  （วృठ்мஜбŋ） | BB | LC |  |
| Scolopax rusti－ cola | Eurasian Wood－ cock | oynb すuonsan <br>  | M | LC |  |
| Columba livia | Rock Dove |  | YR－R | LC |  |
| Cuculus canorus | Common Cuckoo |  | BB | LC |  |
| Bubo bubo | Eurasian Eagle Owl | 8ง¢ૉбงðัм | YR－R | LC |  |
| Asio otus | Northern Long－ eared Owl |  мммmmo） | M | LC |  |
| Otus scops | Eurasian Scops－ Owl | 6̌ymைən | BB | LC |  |
| Athene noctua | Little Owl | \＄моの | YR－R | LC |  |
| Caprimulgus eu－ ropaeus | European Nightjar |  | BB | LC |  |
| Apus apus | Common Swift | ธงдるงмฺง | BB | LC |  |
| Tachymarptis melba | Alpine Swift | Әコзп๓ก๐（งб <br>  Бงдるง мง） | BB | LC |  |
| Merops apiaster | European Bee－eat－ er |  | M | LC |  |
| Coracias garrulus | European Roller | go3youn | M | LC |  |
| Upupa epops | Common Hoopoe | moुmoुn | M | LC |  |
| Dryocopus mar－ tius | Black Woodpecker | ð๐3п зм＠um๐ | YR－R | LC |  |
| Picus viridis | Eurasian Green Woodpecker |  | YR－R | LC |  |
| Dendrocopos major | Greater Spotted Woodpecker |  | YR－R | LC |  |
| Jynx torquilla | Eurasian Wryneck | 2udun | M | LC |  |
| Eremophila alp－ estris | Horned（or Shore） Lark |  | YR－R | LC |  |
| Lullula arborea | Wood Lark |  | M | LC |  |
| Alauda arvensis | Eurasian Skylark |  | YR－R | LC |  |
| Galerida cristata | Crested Lark |  | M | LC |  |
| Hirundo rustica | Barn Swallow |  | BB | LC |  |
| Hirundo rupestris | Eurasian Crag－martin |  | BB | LC |  |
| Riparia riparia | Sand Martin |  | M | LC |  |
| Delichon urbicum | Northern Hause－Martin |  | BB | LC |  |
| Anthus trivialis | Tree Pipit |  | BB | LC |  |
| Anthus pratensis | Meadow Pipit |  | BB | NT |  |
| Anthus cervinus | Red－Throated Pipit | бпоэумвумл <br>  | M | LC |  |


| Anthus spinoletta | Water Pipit |  | YR-R | LC |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Motacilla alba | White Wagtail |  | YR-R | LC |  |
| Motacilla cinerea | Grey Wagtail |  | YR-R | LC |  |
| Motacilla flava | Yellow Wagtail | узпоэмм <br>  | M | LC |  |
| Motacilla citreola | Citrine Wagtail | yznongmoszo <br>  | M | LC |  |
| Lanius minor | Lesser Grey Shrike |  | M | LC |  |
| Lanius collurio | Red-backed Shrike |  | BB | LC |  |
| Prunella modularis | Hedge Accentor (Dunnock) |  | BB | LC |  |
| Prunella collaris | Alpine Accentor |  | YR-R | LC |  |
| Sylvia communis | Common Whitethroat |  -b3y\$030 | M | LC |  |
| Sylvia curruca | Lesser Whitethroat |  -b3y\$0 0 | M | LC |  |
| Sylvia borin | Garden Warbler |  | M | LC |  |
| Sylvia nisoria | Barred Warbler |  | M | LC |  |
| Sylvia atricapilla | Blackcap |  | M | LC |  |
| Phylloscopus trochilus | Willow Warbler | 8ง8uogbymu \$0з\$030 <br>  | BB | LC |  |
| Phylloscopus collybita | Common Chiffchaff |  <br>  | M | LC |  |
| Phylloscopus sindianus | Mountain Chiffchaff | danos \$nj\$uzn (amob y๐(๓งбง) | BB | LC |  |
| Phylloscopus sibilatrix | Wood Warbler |  <br>  | M | LC |  |
| Regulus regulus | Goldcrest |  <br>  <br>  | YR-R | LC |  |
| Muscicapa striata | Spotted Flycatcher |  дэдงфмпл) | BB | LC |  |
| Ficedula parva | Red-breasted Flycatcher | 6nomymgomo (uбŋ <br>  <br>  | M | LC |  |
| Ficedula semitorquata | Semi-Collared Flycatcher |  రり80\$0 <br>  <br>  | M | LC |  |
| Saxicola torquatus | Common Stonechat |  | BB | LC |  |
| Saxicola rubetra | Whinchat |  <br>  | BB | LC |  |
| Monticola saxatilis | Rufous-tailed RockThrush |  | BB | LC |  |
| Oenanthe oenanthe | Northern Wheatear |  дэмை๓мпь | BB | LC |  |
| Phoenicurus ochruros | Black Redstart |  | BB | LC |  |
| Phoenicurus phoenicurus | Common Redstart |  <br>  | BB | LC |  |
| Phoenicurus erythrogastrus | Güldenstädt's (or White-winged) Redstart | бпоээмдทълмь дмммைэвьмл | YR-R | LC | VU |
| Erithacus rubecula | European Robin |  | M | LC |  |
| Luscinia svecica | Bluethroad |  | M | LC |  |
| Luscinia luscinia | Thrush Nightingale |  <br>  | M | LC |  |


| Luscinia megar－ hynchos | Common Nightin－ gale |  <br>  | M | LC |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Turdus merula | Eurasian Blackbird | ১ゝд3ก | YR－R | LC |  |
| Turdus torquatus | Ring Ouzel |  | YR－R | LC |  |
| Turdus pilaris | Fieldfare | （nybosuju dudzo | M | LC |  |
| Turdus iliacus | Redwing |  <br>  | M | NT |  |
| Turdus philome－ Ios | Song Thrush |  <br>  | M | LC |  |
| Turdus viscivorus | Mistle Thrush | Rbゝかonzo | YR－R | LC |  |
| Aegithalos cau－ datus | Long－tailed Tit | ombnouno | YR－R | LC |  |
| Parus ater | Coal Tit |  б๐6̋зงбง） | YR－R | LC |  |
| Parus major | Great Tit |  6๐бろзงбง） | YR－R | LC |  |
| Parus caeruleus | Blue Tit |  <br>  | YR－R | LC |  |
| Tichodroma mu－ raria | Wall－creeper |  зм＠эзলைロ | BB | LC |  |
| Certhia familiaris | Eurasian Tree－creeper |  двмппбзи | BB | LC |  |
| Troglodytes trog－ lodytes | Winter Wren | \＄nБ\＄（ూodo <br>  | YR－R | LC |  |
| Cinclus cinclus | White－throated Dipper | 6́ymob duðzo | YR－R | LC |  |
| Miliaria calandra | Corn Bunting |  ӘпБ＠るのロー る | BB | LC |  |
| Emberiza cia | Rock Bunting |  | YR－R | LC |  |
| Emberiza citri－ nella | Yellowhammer |  | M | LC |  |
| Fringilla mon－ tifringilla | Brambling |  | WV | LC |  |
| Fringilla coelebs | Eurasian Chaffinch | U3306亿๐（бпठेмп๐） | YR－R | LC |  |
| Carduelis cardu－ elis | European Gold－ finch |  | YR－R | LC |  |
| Carduelis spinus | Eurasian Siskin |  | BB | LC |  |
| Carduelis chloris | European Green－ finch | аб์зьбумை | YR－R | LC |  |
| Carduelis flavi－ rostris | Twite |  | YR－R | LC |  |
| Carduelis canna－ bina | Eurasian Linnet |  | BB | LC |  |
| Pyrrhula pyrrhula | Eurasian Bullfinch |  | YR－R | LC |  |
| Coccothraustes Coccothraustes | Hawfinch |  | YR－R | LC |  |
| Serinus pusillus | Fire－fronted Serin （Red－fronted Serin） |  | YR－R | LC |  |
| Carpodacus erythrinus | Common Rose－ finch |  | BB | LC |  |
| Carpodacus ru－ bicilla | Great Rosefinch |  | YR－R | LC | VU |
| Loxia curvirostra | Red Crossbill （Common Cross－ bill） |  | YR－R | LC |  |
| Passer domesti－ cus | Hause Sparrow |  | YR－R | LC |  |
| Montifringilla nivalis | White－winged Snowfinch | дјøмзмм๐ | YR－R | LC |  |
| Sturnus vulgaris | Common Starling |  | M | LC |  |













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VU = дмб́язмл@@п
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 Әวควるก (DOWNES ET AL., 2010).







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