

ENDANGERED FLORA AND FAUNA OF THE RUSSIAN FAR EAST

Compiled by Alexander Dobrynin from the Russian Red Data Book (1992); translated by Del Morrison

Fauna

*Note: * = Inexact name; information not available.*

Amur Oblast

Acipenser medirostris (Sakhalin sturgeon)
Actius artemis (Peacock moth)
Apatura iris (Purple emperor butterfly)
A. schrenckii (Schrenck's butterfly)
Butastur indicus (Buzzard eagle)
Ciconia boyciana (Oriental white stork)
Coenonympha hero (Hero ringlet butterfly)
Cyon alpinus (Red wolf [Asiatic wild dog])
Dahurinaia laevis
Falco cherrug (Saker falcon)
F. peregrinus (Peregrine falcon)
Grus japonensis (Japanese red-crowned crane)
G. monacha (Hooded crane)
Limnodromus semipalmatus (Asiatic dowitcher)
Middendorffinaia mongolica
Parnassius eversmanni (Eversmann's parnassian butterfly)
Platalea leucorodia (Spoonbill)
Trionyx sinensis (Far Eastern turtle)

Kamchatka Oblast

Alopes lagopus semenovi (Eurasian polar fox)
Balaena mysticetus (Bowhead whale)
Balaenoptera musculus musculus (Blue whale)
Ciconia nigra (Black stork)
Cygnus bewickii (Bewick 鵞 swan)
C. cygnus (Whooper swan)
Cyon alpinus (Red wolf [Asiatic wild dog])
Enhydra lutris gracilis (Kurilian sea otter)
E. l. lutris (Sea otter)
Eschrichtius gibbosus (Gray whale)
Eubalaena glacialis japonica (Black right whale)
Eurynorhynchus pygmeus (Spoon-billed sandpiper)
Falco gyrfalco (Gyrfalcon)
F. peregrinus (Peregrine falcon)
Grampus griseus (Risso's dolphin)
Haliaeetus pelagicus (Steller's sea eagle)
Megaptera novaeangliae novaeangliae (Humpback whale)
Mesoplodon stejnegeri (Stejneger's beaked whale)
Monodon monoceros (Narwhal)
Ovis canadensis nivicola (Kamchatka bighorn snow sheep)
Phoca vitulina stejnegeri (Kuril seal)

Sterna camtschatica (Kamchatka tern)
Tringa guttifer (Nordmann's greenshank)
Ursus maritimus (Polar bear)
Ziphius cavirostris (Cuvier's beaked whale)

Khabarovsk Krai

Acipenser medirostris (Sakhalin sturgeon)
Actias artemis (Peacock moth)
Aix galericulata (Mandarin duck)
Apatura iris (Purple emperor butterfly)
A. schrenckii (Schrenck's emperor butterfly)
Apis cerana indica (Indian honey bee)
Aythya baeri (Baer's pochard)
Balaenoptera physalus physalus (Finback whale)
Brohmaea certhia (Trecreeper)
Butastur indicus (Buzard eagle)
Callipagon relictus (Relic gull)
Ciconia boyciana (Oriental white stork)
Coenonympha hero (Hero ringlet butterfly)
Cygnopsis cygnoides (Swan goose)
Cygnus cygnus (Whooper swan)
Dahurinaia dahurica
Epicopeia mencia (Mencia swallow-tail moth)
Eubalaena glaeialis japonica (Black right whale)
Falcipecten falcipennis (Siberian spruce grouse)
Felis euptylura (Far Eastern forest cat)
Grus japonensis (Japanese red-crowned crane)
G. monacha (Hooded crane)
Haliaeetus pelagicus (Steller's sea eagle)
Ketupa blakistoni (Blackiston's fish owl)
Megaptera novaeangliae novaeangliae (Humpback whale)
Mergus squamatus (Chinese merganser)
Middendorffinaia mongolica
Nemorhaedus caudatus (Goral)
Nossa palaeartica (Ussurian butterfly)
Onychodactylus fischeri (Salamander)*
Panthera tigris altaica (Siberian [Amur] tiger)
Parnassius evermanni (Eversmann's parnassian butterfly)
Platalea leucorodia (Spoonbill)
Trionyx sinensis (Far Eastern turtle)
Ursus maritimus (Polar bear)
Ziphius cavirostris (Cuvier's beaked whale)

Magadan Oblast

Chen caerulescens (Snow goose)
Coconia nigra (Black stork)
Cyon alpinus (Red wolf [Asiatic wild dog])
Diomedea albatrus (Short-tailed albatross)
Eschrichtius gibbosus (Gray whale)

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Eurynorhynchus pygmeus (Spoon-billed sandpiper)
Falco peregrinus (Peregrine falcon)
Limnodromus semipalmatus (Asiatic dowitcher)
Monodon monoceros (Narwhal)
Parnassius evermanni (Eversmann's parnassian butterfly)
Philacte canagica (Emperor goose)
Sterna camtschatica (Kamchatka tern)
Ursus maritimus (Polar bear)

Primorskiy Krai

Acipenser medirostris (Sakhalin sturgeon)
Actias artemis (Peacock moth)
Aix galericulata (Mandarin duck)
Anthocharis scolymus (Scolymus orange-tip butterfly)
Apatura iris (Purple emperor butterfly)
A. schrenckii (Schrenck's emperor butterfly)
Apis cerana indica (Indian honey bee)
Aquila chrysaetos (Golden eagle)
Argynnis nerippe (Nerippe fritillary butterfly)
A. zenobia (Zenobia fritillary butterfly)
Atrophaneura alcinous (Alcinous swallow-tail butterfly)
Aythya baeri (Baer's pochard)
Baculum ussurianum (Ussurian tick bug)
Boloria hakutozana (Hakutozana fritillary butterfly)
Bombus modestus (Modestus bumble bee)
B. schrenckii (Schrenck's bumble bee)
B. sporadicus (Sporadicus bumble bee)
B. subbaicalensis (Baikhalian bumble bee)
Bombyx mandarina (Mandarin silk moth)
Brohmaea certhia (Treecreeper)
Callipagon relictus (Relic gull)
Caloneetris leucomelas (Streaked shearwater)
Cervus nippon hortulorum (Sikha deer)
Ciconia boyciana (Oriental white stork)
Coenonympha hero (Hero ringlet butterfly)
Cryptocercus relictus
Dahurinaia sujfunensis
Diestrammena unicolor (Far Eastern cave grasshopper)
Diomedea albatrus (Short-tailed albatross)
Egretta eulophotes (Chinese egret)
Emberiza jankowskii (Jankowski's bunting)
Epicopeia mencia (Mencia swallow-tail moth)
Eurgdoxa advena
Falcipennis falcipennis (Siberian spruce grouse)
Felis euptylura (Far Eastern forest cat)
Forficula vicaria (Praying mantis)
Gallinago hardwickii (Lathan snipe)
Galloisiana kurentzovi
Grus japonensis (Japanese red-crowned crane)

G. monacha (Hooded crane)
G. vipio (White-naped crane)
Grylloblattina djakonovi
Haliaeetus pelagicus (Steller's sea eagle)
Ixobrychus sinensis (Yellow bittern)
Kaniska canace (Japanese mourning butterfly)
Ketupa blakistoni (Blackiston's fish owl)
Luehdorfia puziloi (Puzilo's parnassian butterfly)
Lycaenopsis filipjevi (Felipiev's blue butterfly)
Mergus squamatus (Chinese merganser)
Middendorffinaia arsenjevi
M. dulkeitiana
M. hassanica
M. martensi
M. mongolica
M. shadini
M. ussuriensis
M. weliczkowski
Miniopterus schreibersi (Bat)*
Mogera wogura (Japanese mole)*
Myotis frater (Feeder bat)
Nemorhaedus caudatus (Goral)
Nipponia nippon (Japanese crested ibis)
Nossa palaeartica (Ussurian butterfly)
Oceanodroma monorhis (Swinhoe's storm petrel)
Onychodactylus fischeri (Salamander)*
Panthera pardus orientalis (Far Eastern leopard)
P. tigris altaica (Siberian [Amur] tiger)
Paradoxornis heudei (Chinese crowtit)
Parantica sita (Butterfly)*
Parnassius eversmanni (Eversmann's parnassian butterfly)
Pipistrellus abramus (Japanese house bat)
Porzana exquisita (white-winged crane)
Sephisa diehroa (Western courtier butterfly)
Seracinus montela (Sericin swallow-tail butterfly)
Sorex mirabilis (Shrew)*
Tadorna eristata (Common shell duck)
Tringa guttifer (Nordmann's greenshank)
Trionyx sinensis (Far Eastern turtle)
Ursus tibetanus ussuricus (Himalayan black bear)

Republic of Yakutia

Aquila chrysaetos (Golden eagle)
Bombus muscorum (Moss bumble bee)*
B. paradoxus (Unusual bumble bee)*
Chen caerulescens (Snow goose)
Ciconia nigra (Black stork)
Cygnus bewickii (Bewick 雁 swan)
Cyon alpinus (Red wolf [Asiatic wild dog])

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Falciennis falciennis (Siberian spruce grouse)
Falco peregrinus (Peregrine falcon)
Grus leucogeranus (Siberian crane)
G. monacha (Hooded crane)
Limnodromus semipalmatus (Asiatic dowitcher)
Numenius minutus (Little curlew)
Odobenus rosmarus laptevi (Laptev walrus)
Pandion haliaetus (Osprey)
Parnassius phoedus (Small apollo butterfly)
P. tenedius (Eastern Siberian apollo butterfly)
Rhodostethia rosea (Ross's gull)
Rufibrenta ruficollis (Red-breasted goose)
Ursus maritimus (Polar bear)

Sakhalin Oblast

Acipenser medirostris (Sakhalin sturgeon)
Actias artemis (Peacock moth)
Aix galericulata (Mandarin duck)
Anatogaster siebaldi
Balaena mysticetus (Bowhead whale)
Balaenoptera borealis borealis (Sei whale)
B. musculus musculus (Blue whale)
B. physalus physalus (Finback whale)
Ciconia nigra (Black stork)
Cygnus bewickii (Bewick's swan)
C. cygnus (Whooper swan)
Dahurinaia laevis
Diomedea albatrus (Short-tailed albatross)
Elaphe climacophora (Japanese rat snake)
E. japonica (Japanese elaphe [snake])
E. quadrivirgata
Enhydra lutris gracilis (Sea otter)
Erebia nipponica (Niphon alpine butterfly)
Eubalaena glacialis japonica (Black right whale)
Eumeces latiscutatus (Far Eastern skink)
Falciennis falciennis (Siberian spruce grouse)
Gallinago hardwickii (Lathan's snipe)
Grampus griseus (Risso's dolphin)
Haliaeetus pelagicus (Steller's sea eagle)
Ixobrychus sinensis (Yellow bittern)
Ketupa blakistoni (Blackiston's fish owl)
Lethe diana (Brown butterfly)
Magaptera novaeangliae novaeangliae (Humpback whale)
Mesoplodon stejnegeri (Stejneger's beaked whale)
Moschus moschiferus sachalinensis (Musk deer)
Neope goschkevitschii
Parus varius (Varied tit)
Passer rutilans (Cinnamon sparrow)
Phoca vitulina stejnegeri (Kuril seal)

Appendixes -- Endangered Species in the Russian Far East

Pipistrellus abramus (Japanese house bat)
Pseudorca crassidens (False killer whale)
Sinchula callipteris
Sterna camtschatica (Kamchatka tern)
Tringa guttifer (Nordmann's greenshank)
Ziphius cavirostris (Cuvier's beaked whale)

Flora

Note: Numbers correspond to a Red Data Book code - 0 = highest; 5 = lowest.

Amur Oblast

- Brasenia schreberi (Water-shield), 1
- Euryale ferox (Prickly waterlily), 1
- Nelumbo nucifera (Lotus), 1
- Pentaghyloides mandshurica, 1

Kamchatka Oblast

- Abies gracilis (Fir), 1
- Fimbristylis ochotemisis, 1

Khabarovsk Krai

- Bergenia pacifica (Pacific moench), 1
- Brasenia schreberi (Water-shield), 1
- Gastrodia elata, 2
- Microdiota decussater, 2
- Nelumbo nucifera (Lotus), 1
- Panax ginseng (Ginseng), 1
- Pentaghyloides mandshurica, 1

Primorskiy Krai

- Apelopsis japonica (Japanese apelopsis), 1
- Aristolochia monshuriansis (Manchurian birthwort), 1
- Aruncus parvulus (Little goat 痴 beard), 1
- Belamcanda chinensis (Leopard flower), 0
- Bergenia pacifica (Pacific moench), 1
- Betula schmidtii (Schmidt 痴 birch), 3
- Brasenia schreberi (Water-shield), 1
- Bupleurum euphordioides (Hare 痴 ear), 1
- Ephedra monosperma (Joint fir), 1
- Eriocaulon chinorossicum (Pipewort), 1
- E. robustius (Pipewort), 1
- Gastrodia elata, 2
- Glycyrrhiza pallidiflora, 1
- Hedysarum ussuriense, 1
- Juniperus rigida (Needle juniper), 2
- Kalopanax septemlobus, 2
- Megadenia speluncarum, 1
- Microdiota decussater, 2
- Mimulus stolonifer (Monkey flower), 1
- Nelumbo nucifera (Lotus), 1
- Oplopanax elatus, 3
- Panax ginseng (Ginseng), 1
- Parthenocissus tricuspidata, 1
- Pentaghyloides mandshurica, 1
- Princepia sinensis, 2
- Pueraria lobata (Kudzu vine), 3

Sanguisorba magnifica (Magnificent burnet), 1
Scilla scilloides (Chinese, Japanese jacinth), 0
Thymus mandskurians (Thyme), 1
Viola hirtipes (Violet), 1
Weigela praecox, 1

Sakhalin Oblast

Artemisia limosa (Mugwort), 1
Betula maximowicziana (Regel birch), 1
Bothrocaryum controversum, 1
Cardiocrinum glehnii, 1
Choranthus serratus, 1
Dioscorea tenuipes, 1
Erythronium japonicum (Adder's tongue), 1
Gastrodia elata, 2
Gentiana sugawarae (Gentian), 1
Ilex sugerokii (Holly), 2
Iris maackii (Iris), 1
Kalopanax septemlobus, 2
Magnolia obovata, 1
Pulsatilla sachalinensis, 0
Rhododendron fauriei (French rhododendron), 2
Skimmia repens (Nakai), 4
Wasabia japonica, 1

Miscellaneous

Taxus cuspidata (Japanese yew), 3

References

Bemmann, A. "Der Boreale Wald als C2-Senke". AFZ6, 1995.

Biodiversity Action Network. Forest Biodiversity. Washington, D.C, 1998. URL:
www@bionet.org

Bureau of Regional Public Campaigns (BRPC) & Friends of the Earth-Japan. Illegal Ash Timber Flow from Sikhote-Alin Area (Far East Russia) to China and Japan. Unpublished Report. November, 1998.

Dobrynin, Alexander. "Forests of Khabarovsk Region," in Newell and Wilson, *The Russian Far East: Forests, Biodiversity Hotspots, and Industrial Developments*, 1996.

Dudley, Nigel, Jean-Paul Jeanrenaud, Francis Sullivan. *Bad Harvest? The Timber Trade and the Degradation of the World's Forests*. London: Earthscan Publications, 1995.

Efremov, D.F., V.P. Karakin, A.P. Kovalev, A.S. Sheingauz. *Commentary on the "Rules for Timber Harvest in Far Eastern Forests*. United States Agency for International Development (US AID), Khabarovsk 1998.

Federal Forest Service of Russia. *Rules For Conducting Harvest Cuts in the Far-Eastern Forests*. Moscow, 1993.

"Forest Fires in Russia will add to Global Warming." *Agence France-Presse*, Oct. 21, 1998.

Forest Fires on the Island of Sakhalin and Khabarovsk Krai. UNDAC Mission Report. UN Office for the Coordination of Humanitarian Affairs (OCHA), November, 1998.

Friends of the Earth-Japan, Ministry of Nature Protection of the Republic of Sakha, and the World Conservation Union – IUCN, Resolution on the International Conference 'Biodiversity Conservation in the Russian Far East: Priority Territories ('Hotspots') and Strategies for their Protection'. June 16-19, 1998, Yakutsk, Russian Federation.

Friends of the Earth-Japan and World Conservation Union (IUCN). *Priority Territories of the Russian Far East and Biodiversity Conservation: A Survey of Ecological Hotspots*. Friends of the Earth-Japan & IUCN, 1999. In Russian.

Gordon, David "Siberia and the Russian Far East", in *The North Pacific Frontier: An Overview of Natural Resources and Strategies to Conserve Them*. Sausalito: Pacific Environment and Resources and Environment Center, 1998.

Greenpeace International. "The Carbon Bomb: Climate Change and the Fate of the Northern Boreal Forests" Amsterdam: Greenpeace International, 1994.

Hammond, Herb "The Boreal Forest", 1994.

Iremonger, S., C. Ravilious and T. Quinton. A statistical analysis of global forest conservation. In: Iremonger, S., C. Ravilious and T. Quinton (Eds.) A Global Overview of Forest Conservation. Including: GIS files of forests and protected areas, version 2. CD-ROM. CIFOR and WCMC, Cambridge, U.K., 1997.

Isaev, Alexander. *Strategy for Conservation, Recreation, and Sustainable Use of Boreal Forests*. IUCN Report, Moscow, 1996.

Krever, V., E. Dinerstein, D. Olson, and L. Williams. *Conserving Russia's Biological Diversity: An Analytical Framework and Initial Investment Portfolio*. Washington, D.C.: World Wildlife Fund, 1994.

Lebedev Anatoly, Ivan Kulunziga, and Pavel Soldatov. Major Reasons of deforestation in the Sikhote-Alin region: A Case Study of Krasnoarmeiskiy district of Primorskiy Region. Paper presented at the Underlying Causes of Deforestation Conference in Costa Rica, 1998.

Miller, Elisa and Karp, Alexander. *Pocket Handbook of the Russian Far East: A Reference Guide*. Seattle: Russian Far East Update, 1994.

Minakir, Pavel et al. *The Russian Far East: An Economic Handbook*. New York: Sharpe, 1994.

Newell, Josh. JN Notes from the Field: Primorye, Khabarovsk, and Sakhalin Trip. Internal Report, Friends of the Earth-Japan, 1998.

Newell, Josh. Russian Far East: Forests, Protected Areas, and Biodiversity Conservation. Report Notes, Friends of the Earth-Japan, 1999. These reports note and the one listed above are the source of the numerous quotes from loggers, forestry specialists, industry representatives, government and NGO officials that appear in this report.

Newell, Josh and Wilson, Emma. *The Russian Far East: Forests, Biodiversity Hotspots, and Industrial Developments*. Tokyo: Friends of the Earth-Japan, 1996.

Pryde, Philip. *Environmental Management in the Soviet Union*. Cambridge: Cambridge University Press, 1991.

Rosencranz, Armin and Scott Anthony. "Siberia's Threatened Forests." *Nature*. Vol. 335, No. 6358-1992: 293.

Saving Russia's Far Eastern Taiga : Deforestation, Protected Areas, and Forests 'Hotspots'

Sheingauz, Alexander. *Forest Fires in Primorskiy and Khabarovskiy Krai, Their Causes and Consequences*. Unpublished Report prepared for Institute of Global Environmental Strategies (IGES), 1998.

Sheingauz, Alexander S., Vladimir P. Karakin, and Vladimir A. Tyukalov. *Forest Sector of the Russian Far East: A Status Report*. Khabarovsk-Vladivostok, Economic Research Institute, 1996.

Sparks, John, *Realms of the Russian Bear – A Natural History of Russia and the Central Asian Republics*. Boston: Little Brown, 1992.

Woodwell, George et al., “Forests: What in the World Are They For?” *World Forests for the Future*. Yale: Yale University Press, 1993.

World Bank. *Russian Federation Forest Policy Review*. The World Bank Agriculture, Industry, and Finance Division: Washington, DC, 1996.

World Rainforest Movement. *Underlying Causes of Deforestation and Forest Degradation*. World Rainforest Movement, 1998. URL: www.wrm.org.uy

World Resources Institute. *Climate, Biodiversity, and Forests*. Washington D.C: World Resources Institute, 1998. URL: www.wri.org. See also ‘Frontier Forests Project’ on web site.