

USEFUL TERMS

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Siberia The term stems from the Tartar word *sibir* or sleeping land. To foreigners, the name usually refers to the vast stretch of Russia from the Ural Mountains in the west to the Pacific seacoast in the east. Russians, however, generally consider Siberia's eastern edge to be a series of mountain ranges stretching from western Chita Oblast northward through western Yakutia to the Arctic Ocean. Beyond that lies what Russians call *Dal'niy vostok*, the Far East.

Russian Far East Geographers disagree on the exact boundaries of the Russian Far East. Some limit the region to areas affected by the monsoon climate and the Pacific Ocean, i.e., Primorskiy, Khabarovsk, Amur, Sakhalin, Magadan, Chukotka, and Kamchatka. Others, defining the RFE according to economic ties with the Pacific Rim, include the Republic of Yakutia and Chita Oblast. For this study, we have chosen to base our definition on areas that have strong economic ties to the Pacific Rim; therefore, we have included Yakutia, but not Chita Oblast.

Krai, Oblast, Republic, Okrug Administrative divisions of the Russian Federation, similar to states in the U.S.

A **republic** (such as the Republic of Yakutia) has, however, more autonomy from Moscow and greater leeway in paying taxes and fees to the capital. Republics are usually set up in regions that have a significant non-Russian indigenous population. All **krais** and **oblasts** technically have the same status with respect to the federal government, but, in practice, some regions have more autonomy from Moscow than do others.

Primorskiy and Khabarovsk, for example, are strongly aligned with the Pacific Rim as a result of economic ties; these relationships, coupled with the two regions' great geographical distance from Moscow and the relatively maverick outlook of their governors, have at times caused them to behave completely independently of or even contrary to federal directives.

Okrugs are administrative subdivisions within *oblasts* which are set up specifically for indigenous peoples and generally fall under the jurisdiction of the *oblast*. However, some are relatively free from oblast administration. For example, Chukotka Autonomous Okrug, in part because of its remoteness from the region capital, is quickly developing economic ties with Alaska (importing fuel, food, and other essential supplies), and becoming less influenced by Magadan Oblast politically and economically.

Raion or Rayon Administrative subregion of a krai, oblast, republic, or okrug. Translated in this study as district, raion is also sometimes translated as county. There are about 25 raions in Primorskiy Krai, fewer in other regions.

Protected Areas

Zapovednik A strictly protected nature reserve protected on the federal level. All forms of commercial activity are prohibited. Human activity is restricted to scientific research and monitoring. Some *zapovedniks* have small recreation zones. *Zapovedniks* are established to protect representative areas of a particular landscape or bioregion.

Zakaznik An area set aside for the preservation of smaller ecosystems and/or individual species. *Zakazniks* may be protected on the federal or regional level. Restrictions on commercial activities are sometimes only in effect during certain seasons. Categories of *Zakaznik* include zoological, botanical, landscape, geological, and others. Many *zakazniks* have been established in order to regulate commercial hunting so that viable wildlife populations may be maintained.

National park (*natsionalniy park*) A federally protected territory in which small-scale educational, recreational, and cultural activity as well as scientific research are allowed; usually split into zones of varied status (strictly protected zones for scientific research, special protection zones, recreation zones, agricultural zones, etc.). Many national parks are adjacent to or near *zapovedniks*.

Natural monument (*pamyatnik prirody*) Protects a single, small landscape feature, e.g., caves, a forest, lake, waterfall, etc. Usually between 100 and 500 ha. Commercial activity is prohibited by law on the territory.

Territory of traditional nature use (TTPs, from the Russian territoriya traditsional'nogo prirodopol'zovaniya) Territories set aside for traditional subsistence activities of indigenous peoples.

Russian Red Book The Russian variant of the book by the International Union for Conservation of Nature (IUCN) listing rare and endangered species of flora and fauna. There are both national and regional Red Data books in Russia, and the criteria are similar to those used for compiling the IUCN books. Unlike in the U.S., the listing of a species in the Red Data books guarantees it no legal protection; this listing can be influential, however, in determining where to create a protected area.

Government Agencies

Committee of Nature Protection and Natural Resource Use (formerly Minpriroda)

Regional Committee of Ecology (Goskompriroda), or Regional Committee of Nature Protection and Natural Resource Use; answerable to federal Committee of Nature Protection and Natural Resource Use in Moscow

Federal Forest Service (Federalnaya sluzhba lesnogo khozyaistva)

Regional Forest Service (Upravlenie lesami)

Leskhoz A district (raion)-level forest service; administered by the Regional Forest Service.

Lesnichestvo Forest service unit; a subdivision of a leskhoz.

Commercial entities

Gospromkhoz (GPX) Generic term for locally-based joint-stock corporations (formerly state-run companies) that process natural resources. There are various gospromkhozy, including lespromkhozy (timber), mekhpromkhozy (fur), zverpromkhozy (game), rybpromkhozy (fish), and others.

Lespromkhoz (LPX) Local logging enterprise. Some have remain state-owned; others have privatized into joint-stock companies.

Roslesprom Nationwide conglomerate of lespromkhozy that, although not a governmental agency, has become the de facto successor to Minlesprom.

Dallesprom A regional timber conglomerate in Khabarovsk and Primorskiy Krai which, while much smaller than Roslesprom, is highly influential in regional politics as timber is one of the RFE's economic mainstays.

AO (aktsionernaya obschestvo) Joint-stock (publicly owned) corporation

JV (sovmestnoe predpriyatie) Joint venture (with international partners)

Forestry Terms

Annual Allowable Cut (AAC) The amount of forest that can be cut in a region without overlogging; determined by each region's Forest Inventory Agency.

Bonitet A quality of forest productivity measured on a scale of I-V (I being the highest); bonitet is measured by the height trees reach after a specific number of years. It is only an estimate, and figures can easily be manipulated to suit bureaucratic needs or policy priorities.

Broadleaved Deciduous (in Russia, this includes birch, aspen, poplar, oak, ash, alder, willow, etc.)

Forest classification The Russian Forest Service classifies forests by ecological importance using three categories: Group I (highest); Group II; or Group III to indicate allowable land-use in these forests.

Lesistost' Percentage of a given territory covered by forest.

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

Alopex lagopus semenovi (Eurasian polar fox)
Balaena mysticetus (Bowhead whale)
Balaenoptera musculus musculus (Blue whale)
Ciconia nigra (Black stork)
Cygnus bewickii (Bewick's 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)
Falcapennis falcapennis (Siberian spruce grouse)
Felis eupilura (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 eversmanni (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)
Eurynorhynchus pygmeus (Spoon-billed sandpiper)
Falco peregrinus (Peregrine falcon)
Limnodromus semipalmatus (Asiatic dowitcher)
Monodon monoceros (Narwhal)
Parnassius eversmanni (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 (Trecreeper)
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
Falcapennis falcapennis (Siberian spruce grouse)
Felis euphilura (Far Eastern forest cat)

Forficula vicaria (Praying mantis)
Gallinago hardwickii (Latham 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)
Sericinus 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's swan)

Cyon alpinus (Red wolf [Asiatic wild dog])
Falcapennis falcapennis (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 (Nippon alpine butterfly)
Eubalaena glacialis japonica (Black right whale)
Eumeces latiscutatus (Far Eastern skink)
Falcapennis falcapennis (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)
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 decussata, 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's beard), 1
Belamcanda chinensis (Leopard flower), 0
Bergenia pacifica (Pacific moench), 1
Betula schmidtii (Schmidt's birch), 3
Brasenia schreberi (Water-shield), 1
Bupleurum euphordioides (Hare's 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 decussata, 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 manschuricus (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

List of Zapovedniks in the Russian Far East

Name	Region	Date Established	Area (ha.)
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Name	Region	Date Established	Area (ha.)
	Contract Address		

Primorskiy Region

- 1. Khasanskiy** Primorye Region 1990 37,989 ha. 4 Svobodniy per., Spassk-Dalniy, Spassk Raion, Primorskiy Krai, 692240
- 2. Lazovskiy** Primorskiy Region 1957 120,000 ha. 56 Centralnaya, Lazo, Lazovskiy Raion, Primorskiy Krai, 692890 Tel; 42377-91136 Fax: 91137 E-mail: root@lazozap.marine.su
- 3. Sikhote-Alinskiy** Primorye Region 1935 390184 ha, including 2900 ha. marine reserve Ternei, Primorskiy Krai 692150, Tel: 42374-91559, 91365, e-mail: sixote@glas.apc.org
- 4. Far Eastern State Marine Reserve** Primorye Region 1978 64,300 ha, including 63,000 ha. of marine reserve 1 Palchevskogo, Vladivostok, 6940041 Tel/fax: 4232-310900 e-mail: faribm@stv.iasnet.ru
- 5. Kedrovaya Pad** Primorye region 1925 17,900 ha. Primorskaya, Khasanskiy Raion, Primorskiy Krai, 692710 E-mail: leoproj@vlad-wood.X400.rosprint.ru;
- 6. Ussuriskiy** Primorye Region 1932 40,432 ha. 19 Nekrasova, Ussurisk, Primorskiy Krai, 692532 Tel/fax: 20107

Note: Last three zapovedniks are administered by the Russian Academy of Sciences, Far Eastern Branch.

Khabarovsk Region

- 7. Bol'shekhekhtsirskiy** Khabarovsk Region 1963 45,123 ha. C/O Bichikha, 8 Ubileinaya Street, Khabarovsk Krai 682302 Tel: 4212-97-44-38 E-mail: sciens@rezerve.khv.ru
- 8. Botchi** Khabarovsk Region 1994 267,380 ha. Sovetskaya, 28-b, Sovetskaya-Gavan, Khabarovsk Krai, 682303
- 9. Bureinskiy** Khabarovsk Region 1987 358,444 ha. 44 Krasnoarkieskaya Street, Chegdomin, Upper-Bureinskiy raion, Khabarovsk Krai, 682080 Tel: 42149-52951
- 10. Dzhurdzhurskiy** Khabarovsk Region 1990 859,956 ha, including 53,000 ha. marine reserve Ayan, Khabarovsk Region, 682470 Tel; 213-71
- 11. Komsomolskiy** Khabarovsk Region 1963 64,278 ha. 59 Komsolmoskoye Shosse, Komsolmoslk-on-Amur, Khabarovsk Krai, 681019

Sakhalin Region

12. Kurilskiy Sakhalin Region 1984 65,364 ha.
Yuzhno-Kurilsk, Yuzhno-Kuriskiy Raion, Sakhalin Oblast, 694500 Tel: 42455-21586 Fax:
21394 E-mail: magnoliy@sakhalin.ru

13. Poronaiskiy Sakhalin Region 1988 56,694 ha. 3a Sovetskiy, Poronaisk,
Sakhalinskaya Oblast, 694220

Jewish Autonomous Region

14. Bastak Jewish Autonomous Region 1997 91,038 ha.
None given

Amur Region

15. Khinganskiy Amur Region 1963 93,995 ha. 6 Dovozhni Per., Arkhara,
Arkharinskiy Raion, Amur Oblast, 676740 e-mail: darman@glasnet.ru

16. Zeiskiy Amur Region 1963 99,390 ha.
71 Stroitel'naya Street, Zeya, Amurskaya Oblast, Tel: (41658) – 21379, 21753

Kamchatka Region

17. Kommandorskiy Kamchatka Region 1993 3,648,679 ha., including 3,463,300 ha,
marine reserve
18 Beringa Street, Nikolskoye City, Aleutskiy raion, Kamchatka Oblast, 684500

18. Kronotskiy Kamchatka Region 1934 1,142,000 ha., including 135,000 ha.
marine reserve 48 Ryabikov Street, Yelizovo, Kamchatka Oblast, 684010 e-mail:
zapved@elrus.kamchatka.su

Koryak Autonomous Region

19. Koryakskiy Koryak Autonomous region 1995 327,156 ha., including 83000
marine reserve 8 Naberezhnaya, Tilichiki, Aleutskiy rain, Koryakskiy Auntonomous
Okrug, 684800

Republic of Sakha (Yakutia)

20. Olenkinskiy Republic of Sakha 1984 847,102 ha. 31 Logovaya,
Olenkinsk, Republic of Sakha, 678100 Tel: 41138-21032, 21482

21. Ust-Lenskiy Republic of Sakha 1985 1,433,000 ha. 28 Acad. Federova,
Tiksi, Bulunskiy raion, Republic of Sakha, 678400, Tel: 41167-53939, e-mail:
lenski@tiksi.rospace.ru

Magadan Region

22. Magadanskiy Magadan Region 1982 8 Portovaya, Magadan, 685014, Tel:
41322-23611, Fax: 20071

Chukotka Region

23. Wrangel Island Chukotka Autonomous Region 1976 2,225,650 ha. including
1,430,000 ha. marine reserve Ushakovskoye, Schmidtovskiy Raion, Chukotskiy AO, 686870

Source: Biodiversity Conservation Center, Moscow, 1997. Translated by Josh Newell

METHODOLOGY TO IDENTIFY THE BIODIVERSITY HOTSPOTS

*A joint project of IUCN-The World Conservation Union and Siberia Hotspot Program at
Friends of the Earth-Japan*

Summary

The 59 'Hotspots' identified are the result of more than 12 months of regional roundtables in all ten administrative subdivisions of the RFE. At these roundtables, representatives from regional administrations, nature protection agencies, scientific institutes, and non-governmental organizations met to identify and agree on 5-7 priority territories for biodiversity conservation ('Hotspots') in their respective region. The primary criteria for choosing these priorities were:

- 1. Presence of rare and endangered plant and animal species or endemic species*
- 2. Existing and projected threats from industrial development*
- 3. Level of ecosystem fragility*
- 4. Importance for traditional land-use by indigenous peoples*
- 5. Poorly studied areas that could be considered as meeting criteria 1,2, 3, and/or 4 above*

The procedure for reaching consensus began with presentations by all invited specialists who described and supported the inclusion of one or more territories to the list. Then, on the basis of the criteria outlined above, specialists nominated and explained the reasons for the five areas they felt best suited the criteria. Finally, the selections were tallied and the 5-7 (in case of ties) 'Hotspots' receiving the most votes were put forth for final approval by the roundtable participants; these expert teams are listed in the following pages/ to the right of this text. The complete results of these roundtables are published in the survey, "Priority Territories (Hotspots) for Biodiversity Conservation in the Russian Far East", which is now available in Russian and will soon be available in Japanese and English.

To announce the findings of the Hotspot roundtables, to develop protection strategies, and to make recommendations for sustainable development of the Region, Friends of the Earth-Japan, IUCN, and the Republic of Sakha Government held an international conference in Yakutsk, Russia in June 1998. Attendees at this conference unanimously agreed to endorse these Hotspots and developed a number of concrete resolutions on environmental policy, forest use, investment policy, and natural resource management. Since June, more than 45 international NGOs have also endorsed the conference resolution.

Russian Far East Biodiversity Hotspot List

Note: Hotspots are not listed in order of priority

Krai, Oblast, Republic, Okrug: Administrative subdivisions of the Russian Federation

zapovednik: strict nature reserve *zakaznik*: wildlife refuge

Note: Forest Hotspots are listed in bold.

Primorye

1. **Samarga River Basin (forest)**
2. **Middle and Upper Bikin River Basin (forest/wetland)**
3. **Middle-Ussuriiskiy National Park (forest)**
4. **Upper-Ussuriiskiy National Park (forest)**
5. **Southwest Primorye region [including Khasanskiy Nature Park, Barsoviy Zakaznik, Borisovskoye Plateau Zakaznik] (forest/wetland)**

Khabarovsk

6. **Anyuiskiy National Park (forest)**
7. **Matai Zakaznik (forest)**
8. Nedostupniye Lakes Zakaznik (wetland)
9. **Pikhtsa-Tigroviy Dom Zakaznik (forest/wetland)**
10. **Gur-Khoso Zakaznik (forest)**
11. Shantar Islands Zakaznik (wetland/marine)

Note: None are established reserves

Sakhalin

12. **Pursh-Pursh and Vengeri River Basins (forest)**
13. Coastal Bays of Northeastern Sakhalin (wetland/marine)
14. **Anna, Sima, and Bukhara River Basins (forest)**
15. **Schmidt Peninsula (forest)**
16. **Krilyon Peninsula (forest)**
17. Nevskoye Lake (wetland)
18. **Vaida Mountain (forest)**

Amur

19. **Arkhainskaya Lowland and Little Khingan Range (forests/wetland)**
20. Southern part of the Zeisko-Bureinskaya Plain (wetland)
21. **Mukhinka Drainage Basin (forest)**
22. **Between the Nora and Selemdzha Rivers (forest/wetland)**
23. **Mountains surrounding Zeiskoye Reservoir (forest)**
24. **Nyukzhinskiy Ridge and Amur Pinelands (forest)**

Jewish Autonomous Oblast

25. Zabelovskiy Area (wetland)
26. Stolbovskoy Area (wetland)
27. **Pompeyevskiy Area (wetland/forest)**
28. "Bastak" State Zapovednik
29. **"Kuldur" Nature Park (forest)**

Kamchatka

- 30. Bystrinskiy Nature Park (forest)
- 31. "Conifer Island" (forest)
- 32. Kronotskiy Biosphere Zapovednik (forest/wetland)
- 33. Komandorskiy Zapovednik (marine)
- 34. Avachinskaya Bay (wetland/marine)

Koryakia

- 35. North Ayakinskiy Zakaznik (wetland/arctic)
- 36. Parapolskiy Valley (wetland/arctic)
- 37. Karaginskiy Island Zakaznik (marine)
- 38. Palanskoye Lake Zakaznik (wetland)
- 39. Rivers in Tigilskiy region (wetland/tundra)
- 40. Koryak offshore zone of the Sea of Okhotsk (marine)
- 41. Buffer Zone of Koryakskiy Zapovednik (wetland/tundra)

Republic of Sakha (Yakutia)

- 42. Sub-tundra forests of Northern Sakha (arctic/forest)
- 43. Vilyui River Basin
- 44. Between the Lena and Amga Rivers (forest/wetland)
- 45. Between the Aldan and Uchur Rivers (arctic/forest)
- 46. Tuimaada Valley (forest/wetland)

Magadan

- 47. Magadanskiy Zapovednik (wetland/forest/marine)
- 48. Tauskaya Bay (marine/wetland)
- 49. Khasyn River Basin (wetland)
- 50. Gizhiginskaya Bay (wetland)
- 51. Odyan and Kavinskaya Valley Zakazniks (wetland)
- 52. Ola River Basin (wetland)

Chukotka

- 53. Lower Anadyr Lowlands (arctic/wetland)
- 54. Omolonskiy Zakaznik (arctic/tundra)
- 55. Southeast Coast of Chaunskaya Bay (marine/wetland)
- 56. Meinypilgynskaya Riparian zone (including coast) (arctic/wetland)
- 57. Walrus rookeries (arctic/marine)
- 58. Lake Elgygytgyn depression (arctic/wetland)
- 59. Botanical natural monuments (arctic)

Russian Far East Expert Team

The following specialists identified and adopted the biodiversity hotspots listed above at regional roundtables held throughout the Russian Far East from 1997 to 1998.

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