Appendix 1

Species list of Shiretoko Peninsula and its coastal area

The Vascular Plants of Shiretoko Peninsula

From Sato, K. et al. (1985)

- $\ensuremath{^*}$ Recorded in the bibliography, although its presence was unclear
- $\ensuremath{^{**}}$ Red List categories of IUCN, details are given on the last page
- *** Red List Categories of Japanese Ministry of the Environment, details are given on the last page
- **** Endemic based on Satake et al. (1982; 1989) and Iwatsuki (1992), listed as "endemic to Japan" or "limited to Japan"

Scientific name	IUCN RL**	MoE RL***	Endemic to Japan****
ERIDOPHYTA			
EQUISETACEAE			
Equisetum arvense			
Equisetum arvense var. boreale			
Equisetum hyemale			
Equisetum palustre			
Equisetum fluviatile			
LYCOPODIACEAE			
* Lycopodium alpinum		EN	
Lycopodium annotinum			
Lycopodium annotinum var. pungens			
Lycopodium clavatum var. nipponicum			
Lycopodium complanatum			
Lycopodium obscurum forma strictum			
Lycopodium obscurum forma flabellatum			
Lycopodium selago var. appressum			
Lycopodium selago var. miyoshianum			
Lycopodium serratum			
Lycopodium sitchense var. nikoense			
SELAGINELLACEAE			
Selaginella helvetica			
Selaginella shakotanensis			
Selaginella sibirica		VU	
Selaginella tamariscina			
ISOETACEAE			
Isoetes asiatica		VU	
OPHIOGLOSSACEAE			
Botrychium lunaria		VU	
Botrychium robustum			
OSMUNDACEAE			
Osmunda asiatica			
Osmunda japonica			
HYMENOPHYLLACEAE			
Mecodium wrightii			
PTERIDACEAE			
Adiantum pedatum			
Coniogramme fraxinea var. intermedia			
Dennstaedtia hirsuta			
* Dennstaedtia wilfordii			
Pteridium aquilium var. latiusculum			
PLAGIOLOGYRIACEAE			
Plagiogyria matsumureana			
ASPIDIACEAE			
Athyrium alpestre			
Athyrium crenulatoserrulatum			
Athyrium filix-femina var. longipes			
Athyrium melanolepis			
Athyrium pterorachis			
Athyrium pycnosorum			
Athyrium vidalii			
Athyrium vidalii var. yamadae			
Athyrium vidatti vat. yamadae Athyrium yokoscense			
Dryopteris amurensis			

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Scientific name	IUCN RL**	MoE RL***	Endemic to Japan****
Dryopteris austriaca			
Dryopteris crassirhizoma			
Dryopteris fragans			
Dryopteris monticola			
Lastrea dryopteris			
Lastrea nipponica			
Lastrea phegopteris			
Lastrea quelpaertensis			
Lastrea robertiana var. longula			
Lastrea thelypteris			
Matteuccia orientalis			
Matteuccia struthiopteris			
Onoclea sensibilis			
Polystichum braunii			
Polystichum retroso-paleaceum			
Polystichum retroso-paleaceum var. coraiense			
Polystichum tripteron			
Rumohra miqueliana			
Rumohra mutica			
Rumohra standishii			
* Woodsia manchuriensis			
Woodsia polystichoides			
BLECHNACEAE			
Blechnum nipponicum			
ASPLENIACEAE			
Asplenium incisum			
Asplenium scolopendrium			
POLYPODIACEAE			
Pleopeltis ussuriensis var. distans			
Polypodium fauriei			
Polypodium virginianum			
PERMATOPHYTA			
YMNOSPERMAE			
TAXACEAE			
Taxus cuspidata			
PINACEAE			
Abies sachalinensis			
Larix kaempferi			
Picea glehnii			
Picea jezoensis			
Picea jezoensis var. takedae Pinus pumila			
CUPRESSACEAE			
Juniperus chinensis var. sargentii			
Juniperus communis var. montana		EN	
NGIOSPERMAE			
OICOTYLEDONEAE			
CHLORANTHACEAE			
Chloranthus japonicus			
Chloranthus serratus			
SALICACEAE			
Populus nigra var. italica			
Populus maximowiczii			
Populus tremula var. davidiana			
Salix hultenii var. angustifolia			
Salix pet-susu			
Salix reinii			

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Scientific name	IUCN RL**	MoE RL***	Endemic t Japan***
Salix reinii var. eriocarpa			
Salix rorida			
Salix sachalinensis			
Salix taraikensis		VU	
Salix vulpina			
Salix yezoalpina		EN	
Toisusu urbaniana			
Toisusu urbaniana var. schneideri			
JUGLANDACEAE			
Juglans ailanthifolia			
BETULACEAE			
Alnus hirsuta			
Alnus hirsuta var. sibirica			
Alnus japonica			
Alnus mayrii			
Alnus maximowiczii			
Betula ermanii			
Betula maximowicziana			
Betula platyphylla var. japonica			
Carpinus cordata			
Ostrya japonica			
FAGACEAE			
Quercus dentata			
Quercus mongolica var. grosseserrata			
ULMACEAE			
Ulmus davidiana var. japonicus			
Ulmus davidiana var. japonicus forma suberosa			
Ulmus laciniata			
MORACEAE			
Humulus lupulus var. cordifolius			
Morus bombycis			
URTICACEAE			
Boehmeria tricuspis			
Boehmeria tricuspis var. unicuspis			
Laportea bulbifera			
* Urtica angustifolia			
Urtica platyphylla			
SANTALACEAE			
Thesium refractum			
LORANTHACEAE			
Viscum album var. coloratum forma rubro-auratiacum			
ARISTOLOCHIACEAE			
Asarum heterotropoides			
POLYGONACEAE			
Polygonum amphibium			
Polygonum aviculare			
Polygonum bistorta			
Polygonum caespitosum var. laxiflorum			
Polygonum convolvulus			
* Polygonum dentato-alatum			
* Polygonum dumetorum			
Polygonum filiforme			
Polygonum lapathifolium			
Polygonum longisetum			
Polygonum nepalense			
- c. y Sommin reparense			
Polygonum persicaria			

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Scientific name	IUCN RL**	MoE RL***	Endemic to Japan ****
Polygonum thunbergii			
Polygonum viviparum			
Polygonum weyrichii			
Polygonum weyrichii var. alpinum			
Rumex acetosella			
Rumex crispus			
Rumex longifolius		VU	
Rumex montanus			
Rumex obtusifolius			
CHENOPODIACEAE			
Atriplex gmelinii			
Atriplex subcordata			
Chenopodium album			
Chenopodium album var. centrorubrum			
Chenopodium glaucum			
Kochia scoparia			
Salsola komarovii			
AMARANTHACEAE			
Amaranthus lividus			
CARYOPHYLLACEAE			
Arenaria merckioides			
Cerastium fischerianum			
Cerastium holosteoides			
Cerastium holosteoides var. hallaisanense			
Cucubalus baccifer var. japonicus			
Dianthus superbus			
Dianthus superbus var. speciosus			
Honkenya peploides var. major			
Moehringia lateriflora			
Sagina maxima forma crassicaulis			
Silene alba			
* Silene armeria			
Silene noctiflora			
Spergula arvensis			
Spergula arvensis var. sativa			
Stellaria fenzlii			
Stellaria graminea			
Stellaria media			
Stellaria radians			
Stellaria ruscifolia		VU	
NYMPHAEACEAE			
Nuphar pumilum		VU	
Nymphaea tetragona			
CERCIDIPHYLLACEAE			
Cercidiphyllum japonicum	LR/nt		
RANUNCULACEAE			
Aconitum gigas			
Aconitum maximum var. misaoanum		VU	
Aconitum maximum var. misaoanum forma album			
Aconitum yesoense			
Aconitum yesoense var. macroyesoense			
Actaea asiatica			
Actaea erythrocarpa			
Adonis amurensis		VU	
Anemone debilis			
Anemone flaccida			
Anemone flaccida forma viridis			

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Scientific name	IUCN RL**	MoE RL***	Endemic t Japan****
Anemone narcissiflora			
Anemone yezoensis			
Aquilegia buergeriana var. oxysepala			
Aquilegia flabellata var. pumila			
Caltha palustris var. barthei			
Cimicifuga simplex			
Clematis fusca		EN	
Clematis ochotensis			
Coptis trifolia			
Glaucidium palmatum			
Ranunculus nipponicus var. major			
Ranunculus quelpaertensis			
Ranunculus repens			
Ranunculus reptans		EN	
Ranunculus sceleratus			
Thalictrum aquilegifolium			
Thalictrum foetidum var. glabrescens		VU	
Thalictrum minus var. hypoleucum			
Thalictrum minus var. stipellatum			
Thalictrum sachalinense			
Trollius riederianus			
BERBERIDACEAE			
Caulophyllum robustum			
Diphylleia grayi			
MAGNOLIACEAE			
Magnolia kobus var. borealis			
Magnolia obovata			
Schisandra chinensis			
PAPAVERACEAE			
Chelidonium majus var. asiaticum			
Corydalis ambigua			
Corydalis speciosa			
Dicentra peregrina			
Dicentra peregrina forma alba			
CRUCIFERAE			
Arabis glabra			
Arabis lyrata var. kamtschatica			
Arabis pendula			
Arabis serrata var. glauca			
Arabis stelleri var. japonica			
Barbarea orthoceras			
Brassica napus			
Capsella bursa-pastoris			
Cardamine leucantha			
Cardamine scutata		Fire	
Cochlearia oblongifolia		EN	
Draba borealis			
Erysimum cheiranthoides var. japonicum		CT.	
Isatis tinctoria var. yezoensis		CR	
Macropodium pterospermum			
Rorippa islandica			
Rorippa sylvestris			
DROSERACEAE			
Drosera rotundifolia			
CRASSULACEAE			
Sedum aizoon			
Sedum ishidae			

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Scientific	name	IUCN RL**	MoE RL***	Endemic to Japan ****
Sedum iwo	ırenge var. boehmeri		VU	
	ntschaticum			
* Sedum plu	ricaule			
Sedum ros	ea			
	phium var. purpureum			
Sedum ver	ticillatum			
SAXIFRAGACE	CAE			
Astilbe thu	nbergii var. congesta			
Boykinia l	ycoctonifolia			
Chrysospl	enium flagelliferum			
Chrysospl	enium grayanum			
Chrysospl	enium kamtschaticum			
Hydrange	a paniculata			
Hydrange	a paniculata var. intermedia			
	a petiolaris			
Parnassia				
	palustris var. tenuis			
Ribes latif				
	olius forma siretokense			
Ribes sach				
Ribes trist				
	cherlerioides var. rebunshirensis			
	fortunei var. incisolobata			
Saxifraga				
Saxifraga				
Saxifraga				
	sachalinensis			
	agma hydrangeoides			
ROSACEAE	эгурпуна			
	•1			
Agrimonia	•			
	ioicus var. kamtschaticus			
	a multijuga var. ciliata			
	a kamtschatica			
Fragaria e				
Fragaria i				
Fragaria y				
Geum aleį				
	haefolium var. nipponicum			
Geum mad	rophyllum			
Geum pen	tapetalum			
Potentilla	centigrana			
Potentilla	dickinsii			
Potentilla	egedei var. groenlandica			
	fragarioides var. major			
	matsumurae			
Potentilla	megalantha			
Potentilla	-		CR	
Potentilla			CR	
Potentilla				
Potentilla				
	stolonifera		1	
	sioionijera iximowiczii		-	-
			-	
	aximowiczii forma rotundifolia			
Prunus nij				
Prunus nii	oponica var. kurilensis dus			

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Scientific name	IUCN RL**	MoE RL***	Endemic t Japan***
Prunus sargentii			
Prunus ssiori			
Rosa acicularis			
Rosa rugosa			
Rubus crataegifolius			
Rubus idaeus var. aculeatissimus			
Rubus idaeus var. aculeatissimus forma concolor			
Rubus parvifolius			
Rubus pedatus			
Rubus phoenicolasius			
Rubus pseudo-japonicus			
Sanguisorba stipulata			
Sanguisorba tenuifolia var. alba			
Sanguisorba tenuifolia var. grandiflora			
Sorbaria sorbifolia var. stellipila			
Sorbus alnifolia			
Sorbus commixta			
Sorbus matsumurana			
Sorbus sambucifolia			
Spiraea betulifolia			
Spiraea betulifolia var. aemeliana			
Spiraea betulifolia var. aemeliana forma glabra			
Spiraea media var. sericea		EN	
Waldsteinia ternata			
EGUMINOSAE			
Astragalus japonicus		CR	
Desmodium oxyphyllum			
Hedysarum hedysaroides		VU	
Lathyrus japonicus		7.0	
Lathyrus japonicus var. aleuticus			
Lathyrus japonicus var. aleuticus forma albinus			
Lespedeza bicolor			
* Lotus cornicularis var. japonicus			
Maackia tashiroi			
Melilotus alba			
Robinia pseudo-acasia			
Thermopsis lupinoides			
Trifolium hybridum			
Trifolium lupinaster			
Trifolium pratense			
Trifolium repens			
Vicia amoena			
Vicia cracca			
Vicia cracca forma canescens			
Vicia japonica			
Vicia unijuga			
GERANIACEAE			
Geranium erianthum			
* Geranium eriostemon var. reinii			
Geranium krameri			
Geranium sibiricum var. glabrius			
Geranium thunbergii			
Geranium yezoense			
Geranium yezoense var. pseudo-palustre			
DXALIDACEAE			
Oxalis acetosella			
Oxalis stricta			

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Scientific name	IUCN RL**	MoE RL***	Endemic t
RUTACEAE			
Phellodendron amurense var. sachalinense			
Skimmia japonica var. intermedia			
Skimmia japonica var. intermedia forma repens			
SIMAROUBACEAE			
Picrasma quassioides			
EUPHORBIACEAE			
Daphniphyllum macropodum var. humile			
BUXACEAE			
Pachysandra terminalis			
EMPETRACEAE			
Empetrum nigrum var. japonicum			
ANACARDIACEAE			
Rhus ambigua			
Rhus trichocarpa			
AQUIFOLIACEAE			
Ilex crenata var. paludosa			
Ilex rugosa			
Ilex sugerokii			
CELASTRACEAE			
Celastrus orbiculatus var. papillosus			
Euonymus alatus forma ciliatodentatus			
Euonymus macropterus			
Euonymus oxyphyllus			
Euonymus sieboldianus			
STAPHYLEACEAE			
Staphylea bumalda			
ACERACEAE			
Acer japonicum			
Acer mono			
Acer mono var. mayrii			
Acer tschonoskii			
Acer ukurunduense			
Acer ukurunduense var. pilosum			
BALSAMINACEAE			
Impatiens noli-tangere			
* Impatiens textori			
VITACEAE			
Ampelopsis brevipedunculata			
Vitis coignetiae			
TILIACEAE			
Tilia japonica			
Tilia maximowicziana			
Tilia maximowicziana var. yesoana			
ACTINIDIACEAE			
Actinidia arguta var. platyphylla			
Actinidia kolomikta			
Actinidia polygama GUTTIFERAE			
Hypericum ascyron			
Hypericum erectum			
Hypericum kamtschaticum			
Hypericum yezoense		VU	
VIOLACEAE			
Viola acuminata			
Viola blandaeformis			
Viola blandaeformis var. pilosa		VU	

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:	Scientific name	IUCN RL**	MoE RL***	Endemic t Japan***
	Viola collina			
	Viola grypoceras			
	Viola kitamiana			
	Viola kusanoana			
-	Viola langsdorffii		VU	
	Viola langsdorffii forma parviflora			
	Viola mandshurica			
-	Viola repens		CR	
-	Viola sacchalinensis			
-	Viola selkirkii			
-	Viola verecunda			
-	Viola verecunda var. semilunaris			
	ELAEACEAE			
	Daphne kamtschatica var. jezoensis			
	Daphne miyabeana			
	RACEAE			
	Lythrum salicaria			
	RACEAE			
	Circaea alpina			
	Epilobium amurense			
	Epilobium angustifolium			
	Epilobium cephalostigma			
	Epilobium cephalostigma var. nudicarpum			
	Epilobium dielsii			
	Epilobium fauriei			
	Epilobium foucaudianum			
	Epilobium glandulosum var. asiaticum			
	Oenothera muricata			
	ACEAE			
	Aralia cordata			
	Aralia elata			
	Kalopanax pictus			
	LLIFERAE			
	Aegopodium alpestre			
	Angelica anomala			
	Angelica edulis			
	Angelica genuflexa			
-	Angelica ursina			
	Anthriscus sylvestris			
	Bupleurum longiradiatum var. breviradiatum			
*	Bupleurum longiradiatum var. shikotanense			
	Chamaele decumbens			
_	Cicuta virosa			
	Coelopleurum lucidum var. gmelinii			
	Conioselinum filicinum			
	Conioselinum kamtschaticum			
	Cryptotaenia japonica			
	Daucus carota			
	Glehnia littoralis			
	Heracleum dulce			
	Heracieum auice Hydrocotyle ramiflora			
	Ligusticum hultenii			
	Oenanthe javanica			
	Osmorhiza aristata		1	
	Peucedanum multivittatum Peucedanum terebinthaceum			

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Scientific name	IUCN RL**	MoE RL***	Endemic t Japan****
Sanicula chinensis			
* Sium suave var. nipponicum		EN	
Spuriopimpinella calycina			
Tilingia ajanensis			
Tilingia holopetala			
Torilis japonica			
CORNACEAE			
Cornus canadensis			
Cornus controversa			
DIAPENSIACEAE			
Diapensia lapponica var. obovata			
PYROLACEAE			
Chimaphila japonica			
Monotropastrum globosum			
Pyrola alpina			
Pyrola faurieana		EN	
Pyrola japonica forma subaphylla			
Pyrola renifolia			
Pyrola secunda			
ERICACEAE			
Andromeda polifolia			
Arcterica nana			
Arctous alpinus var. japonicus			
Bryanthus gmelinii		VU	
Cassiope lycopodioides			
* Gaultheria adenothrix			
Gaultheria miqueliana			
Harrimanella stelleriana			
Ledum palustre var. diversipilosum			
Leucothoe grayana var. oblongifolia			
Leucothoe grayana var. yezoensis			
Loiseleuria procumbens			
Menziesia pentandra			
Phyllodoce aleutica			
Phyllodoce caerulea			
Phyllodoce caerulea forma yezoensis			
Rhododendron aureum			
Rhododendron brachycarpum			
Rhododendron camtschaticum			
Tripetaleia bracteata			
Vaccinium hirtum			
Vaccinium japonicum			
Vaccinium ovalifolium			
Vaccinium ovalifolium var. coriaceum			
Vaccinium oxycoccus			
Vaccinium praestans			
Vaccinium smallii			
Vaccinium uliginosum			
Vaccinium vitis-idaea			
PRIMULACEAE			
Glaux maritima var. obtusifolia			
Lysimachia thyrsiflora			
Lysimachia vulgaris var. davurica			
Primula cuneifolia			
Primula cuneifolia forma leucantha			
			-
Primula modesta var. fauriei Primula modesta var. matsumurae		VU	

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Primula jesoana var. pubescens Trientalis europaea Trientalis europaea var. arctica ILEACEAE Fraxinus lanuginosa Fraxinus mandshurica var. japonica Ligustrum tshonoskii var. glabrescens Syringa reticulata Syringa reticulata var. macrophylla Syringa reticulata var. tatewakiana ENTIANACEAE Fauria crista-galli Gentiana triflora var. japonica Gentiana triflora var. horomuiensis Gentiana triflora var. montana Gentiana zollingeri Halenia corniculata Menyanthes trifoliata Swertia tetrapetala Tripterospermum japonicum POCYNACEAE Apocynum venetum var. basikurumon SCLEPIADACEAE			
Trientalis europaea var. arctica ILEACEAE Fraxinus lanuginosa Fraxinus mandshurica var. japonica Ligustrum tshonoskii var. glabrescens Syringa reticulata Syringa reticulata var. macrophylla Syringa reticulata var. tatewakiana ENTIANACEAE Fauria crista-galli Gentiana triflora var. japonica Gentiana triflora var. horomuiensis Gentiana triflora var. montana Gentiana zollingeri Halenia corniculata Menyanthes trifoliata Swertia tetrapetala Tripterospermum japonicum POCYNACEAE Apocynum venetum var. basikurumon SCLEPIADACEAE			
Fraxinus lanuginosa Fraxinus mandshurica var. japonica Ligustrum tshonoskii var. glabrescens Syringa reticulata Syringa reticulata var. macrophylla Syringa reticulata var. tatewakiana ENTIANACEAE Fauria crista-galli Gentiana triflora var. japonica Gentiana triflora var. horomuiensis Gentiana triflora var. montana Gentiana zollingeri Halenia corniculata Menyanthes trifoliata Swertia tetrapetala Tripterospermum japonicum POCYNACEAE Apocynum venetum var. basikurumon SCLEPIADACEAE			
Fraxinus lanuginosa Fraxinus mandshurica var. japonica Ligustrum tshonoskii var. glabrescens Syringa reticulata Syringa reticulata var. macrophylla Syringa reticulata var. tatewakiana ENTIANACEAE Fauria crista-galli Gentiana triflora var. japonica Gentiana triflora var. horomuiensis Gentiana triflora var. montana Gentiana zollingeri Halenia corniculata Menyanthes trifoliata Swertia tetrapetala Tripterospermum japonicum POCYNACEAE Apocynum venetum var. basikurumon SCLEPIADACEAE			
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POCYNACEAE Apocynum venetum var. basikurumon SCLEPIADACEAE			
Apocynum venetum var. basikurumon SCLEPIADACEAE			
SCLEPIADACEAE			
~		EN	
Cynanchum caudatum			
ONVOLVULACEAE			
* Calystegia japonica			
Calystegia sepium var. americana			
Calystegia soldanella			
ORAGINACEAE			1
Mertensia asiatica			
Myosotis scorpioides			
ABIATAE			+
Agastache rugosa			
Agastache rugosa forma hypoleuca			
Clinopodium chinense var. parviflorum			-
Clinopodium chinense var. shibetchense			-
Clinopodium gracile var. sachalinense			
Dracocephalum argunense		EN	
Elsholtzia ciliata			
Galeopsis bifida			
Lamium album var. barbatum			
Lycopus uniflorus			
Mentha arvensis var. piperascens			
Nepeta subsessilis var. yesoensis			
Prunella vulgaris var. lilacina			
Scutellaria dependens			
Scutellaria pekinensis var. ussuriensis			1
Scutellaria pekinensis var. transitra			1
Scutellaria strigillosa			
Stachys japonica var. villosa			
Teucrium viscidum var. miquelianum	+		-
* Teucrium visculum vai. miquenanum			-
Thymus quinquecostatus	1		1
OLANACEAE		I	+
Solanum megacarpum Solanum nigrum			

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^{****} Endemic based on Satake et al. (1982; 1989) and Iwatsuki (1992), listed as "endemic to Japan" or "limited to Japan"

Scientific name	IUCN RL**	MoE RL***	Endemic t Japan***
SCROPHULARIACEAE			
Linaria japonica			
Mimulus nepalensis var. japonica			
Mimulus sessilifolius			
Pedicularis apodochila			
Pedicularis chamissonis var. japonica			
Pedicularis respinata			
Pedicularis schistostegia		VU	
* Pedicularis yezoensis			
Pentstemon frutescens			
Scrophularia grayana			
Verbascum thapsus			
Veronica americana			
Veronica persica			
Veronica schmidtiana			
Veronica schmidtiana var. lineariloba			
Veronica stelleri var. longistyla		VU	
Veronica stetteri vat. tongistyta Veronicastrum sibiricum		VU	
OROBANCHACEAE			
OROBANCHACEAE Orobanche coerulescens			
LENTIBULARIACEAE			
		1777	
Urticularia japonica PHRYMACEAE		VU	
Phryma leptostachya var. asiatica			
PLANTAGINACEAE			
Plantago asiatica			
Plantago camtschatica			
Plantago lanceolata			
Plantago major var. japonica forma yezomaritima			
RUBIACEAE			
Asperula odorata			
Galium kamtschaticum			
Galium kamtschaticum var. acutifolium			
* Galium mollugo			
Galium trifidum var. brevipedunculatum			
Galium trifloriforme			
Galium verum var. asiaticum			
Galium verum var. trachycarpum			
Rubia jesoensis			
CAPRIFOLIACEAE			
Linnaea borealis			
Lonicera alpigena var. glehnii		EN	
Lonicera caerulea var. edulis			
Lonicera caerulea var. emphyllocalyx			
Lonicera chamissoi		VU	
Lonicera chrysantha		VU	+
Lonicera sachalinensis		VU	
Sambucus sieboldiana var. miquelii		¥ U	
Viburnum furcatum			
Viburnum opulus var. calvescens			
Viburnum oputus vat. catvescens Viburnum wrightii			
Weigela middendorffiana			
ADOXACEAE			
Adoxa moschatellina			
VALERIANACEAE			
Patrinia gibbosa			
Patrinia scabiosaefolia			

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- **** Endemic based on Satake et al. (1982; 1989) and Iwatsuki (1992), listed as "endemic to Japan" or "limited to

Scientific name	IUCN RL**	MoE RL ***	Endemic t Japan***
Patrinia sibirica		EN	
Patrinia villosa			
Valeriana fauriei			
CUCURBITACEAE			
Gynostemma pentaphyllum			
Schizopepon bryoniaefolius			
CAMPANULACEAE			
Adenophora pereskiaefolia var. heterotricha			
Adenophora triphylla var. japonica			
Campanula chamissonis			
Campanula lasiocarpa			
Lobelia sessilifolia			
Peracarpa carnosa var. circaeoides			
COMPOSITAE			
Achillea millefolium			
Achillea ptarmica var. macrocephala			
Achillea sibirica			
Adenocaulon himalaicum			
Anaphalis margaritacea var. angustior			
Arnica unalascensis			
Artemisia arctica			
Artemisia iwayamogi			
Artemisia japonica			
Artemisia japonica forma resedifolia			
Artemisia japonica var. macrocephala			
Artemisia keiskeana			
Artemisia koidzumii			
Artemisia koidzumii var. tsuneoi		VU	
Artemisia laciniata		VU	
Artemisia montana			
Artemisia montana var. shiretokoensis			
Artemisia schmidtiana			
Artemisia stelleriana			
Aster glehnii			
Aster scaber			
Bidens radiata var. pinnatifida			
Breea setosa			
Cacalia auriculata var. kamtschatica			
Cacalia hastata var. orientalis			
Carpesium triste			
Chrysanthemum leucanthemum			
Chrysanthemum vulgare var. boreale		VU	
Chrysanthemum yezoense			
Cirsium kamtschaticum			
* Cirsium pectinellum			
Cirsium pectinellum var. alpinum			
* Cirsium pendulum			
* Cirsium vulgare			
Erigeron acris			
Erigeron acris var. amplifolius			
Erigeron annuus			
Erigeron canadensis			
Erigeron canaaensis Erigeron thunbergii var. glabratus			
Eupatorium chinense var. sachalinense			-
Gnaphalium sylvaticum Hieracium aurantiacum			
		1	1

^{****} Endemic based on Satake et al. (1982; 1989) and Iwatsuki (1992), listed as "endemic to Japan" or "limited to Japan"

Scientific name	IUCN RL**	MoE RL***	Endemic to Japan****
* Hypochoeris radicata			
Inula salicina var. asiatica			
Ixeris dentata			
Ixeris dentata var. albiflora			
Ixeris repens			
Lactuca indica var. laciniata			
Lactuca raddeana var. elata			
Leibnitzia anandra			
Ligularia hodgsonii			
Matricaria inodora			
Matricaria matricarioides			
Matricaria tetragonosperma			
Petasites japonicus var. giganteus			
Picris hieracioides var. glabrescens			
Picris hieracioides var. alpina			
Rudbeckia serotina			
Saussurea riederi var. yezoensis			
Senecio cannabifolius			
Senecio nemorensis			
Senecio pseudo-arnica			
Senecio vulgaris			
Solidago virga-aurea var. leiocarpa			
Sonchus asper			
Sonchus brachyotis			
Sonchus oleraceus			
Taraxacum laevigatum			
Taraxacum officinale			
Taraxacum shikotanense		EN	
NOCOTYLEDONEAE			
ТҮРНАСЕАЕ			
Typha latifolia			
SPARGANIACEAE			
Sparganium hyperboreum		EN	
Sparganium sp.			
POTAMOGETONACEAE			
Potamogeton fryeri			
Potamogeton natans			
ZOSTERACEAE			
Zostera nana			
SCHEUCHZERIACEAE			
Scheuchzeria palustris			
GRAMINEAE			
Achnatherum pekinense			
Agrostis alba			
Agrostis borealis			
Agrostis clavata			
Agrostis flaccida			
Agrostis scabra			
Agrostis stolonifera			
Alopecurus aequalis var. amurensis			
Anthoxanthum odoratum			
Beckmannia syzigachne			
Brachypodium sylvaticum			
Bromus japonicus			
Bromus mollis			
		1	1
Bromus pauciflorus			

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	Scientific name	IUCN RL**	MoE RL***	Endemic to Japan****
	Calamagrostis epigeios			
	Calamagrostis hakonensis			
-	Calamagrostis langsdorffii			
	Calamagrostis neglecta var. aculeolata			
	Calamagrostis purpurascens			
	Calamagrostis sachalinensis			
	Dactylis glomerata			
	Deschampsia caespitosa var. festucaefolia			
-	Deschampsia flexuosa			
-	Echinochloa crus-galli			
	Elymus dahuricus			
_	Elymus mollis			
_	Elymus sibiricus			
_	Festuca elatior			
	Festuca ovina			
_	Festuca vina Festuca rubra			
	Glyceria alnastretum			
	3			
_	Glyceria leptolepis			
	Glyceria lithuanica			
_	Hierochloe alpina			
_	Hierochloe odorata var. pubescens			
	Koeleria cristata			
	Melica nutans			
	Milium effusum			
	Miscanthus sinensis			
	Muhlenbergia curviaristata var. nipponica			
*	Muhlenbergia japonica			
	Panicum bisulcatum			
_	Phalaris aruundinacea			
	Phleum pratense			
	Phragmites communis			
_	Poa annua			
	Poa hisauchii			
_	Poa macrocalyx			
	Poa macrocalyx var. scabriflora			
	• •			
	Poa macrocalyx var. tatewakiana			
_	Poa pratensis			
	Poa radula			
_	Poa sachalinensis			
	Poa trivialis			
	Poa viridula			
	Puccinellia pumila			
-	Sasa cernea			
	Sasa kurilensis			
	Sasa senanensis			
-	Sasa sendaica			
_	Sasa shiretokoensis			
-	Setaria faberi			
_	Setaria viridis var. pachystachys			
_	Trisetum sibiricum			
CVPE	RACEAE			
CITE				
_	Carex aphanolepis			
_	Carex augustinowiczii			
_	Carex augustinowiczii var. sharensis			
	Carex bigelowii			
	Carex blepharicarpa			

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Scientific name	IUCN RL**	MoE RL***	Endemic t Japan****
Carex brunnescens			
Carex buxbaumii		EN	
Carex caryophyllea var. microtricha			
Carex conica			
Carex curta			
Carex curvicollis			
* Carex dispalata			
Carex dissitiflora Carex echinata			
Carex flavocuspis			
Carex foliosissima			
Carex gmelinii			
Carex hakkodensis			
Carex hakonensis			
Carex humilis var. nana			
Carex incisa			
Carex insaniae			
Carex jacens			
Carex japonica			
Carex lanceolata			
Carex lasiocarpa var. occultans			
Carex limosa			
Carex longerostrata			
Carex lyngbyei			
Carex macrocephala			
Carex mertensii var. urostachys			
Carex michauxiana var. asiatica			
Carex middendorffii Carex mollicula			
Carex omiana var. monticola			
Carex oxyandra			
Carex parciflora			
Carex pauciflora		VU	
Carex pilosa			
Carex puberula			
Carex pumila			
Carex pyrenaica		FINE	
Carex remotiuscula		EN	
Carex rhynchophysa Carex sachalinensis			
Carex sadoensis Carex schmidtii		T7T1	
		VU	
Carex scita var. riishirensis Carex scita var. scabrinervia			
Carex shimidzensis Carex stenantha var. taisetsuensis			
Carex subspathacea		CD	
Carex subspathacea Carex thunbergii var. appendiculata		CR	
Carex traiziscana		NT	
-		NT	
Carex vanheurckii		VU	
Carex vesicaria			
Eleocharis congesta var. thermalis			-
Eleocharis intersita			
Eleocharis margaritacea		EN	<u> </u>
Eriophorum vaginatum		1	ĺ

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Scientific name	IUCN RL**	MoE RL***	Endemic t Japan****
Scirpus caespitosus			
Scirpus maximowiczii		VU	
Scirpus wichurae			
ARACEAE			
Arisaema angustatum var. penisulae			
Lysichiton camtschatcense			
Symplocarpus renifolius			
COMMELINACEAE			
Commelina communis			
JUNCACEAE			
Juncus beringensis			
Juncus effusus var. decipiens			
Juncus effusus var. decipiens forma gracilis			
Juncus filiformis			
Juncus gracillimus			
Juncus haenkei			
Juncus kamtschatcensis			
Juncus krameri			
Juncus mertensianus			
Juncus prominens		EM	
Juncus tenuis		EN	
Juncus vallichianus			
Luzula capitata			
Luzula multiflora			
Luzula oligantha			
Luzula plumosa var. macrocarpa			
Luzula rostrata			
Luzula wahlenbergii		NT	
LILIACEAE			
Allium schoenoprasum			
Allium schoenoprasum var. yezomonticola			
Allium splendens			
Allium victorialis var. platyphyllum			
Asparagus schoberioides			
Clintonia udensis			
Convallaria keiskei			
Disporum sessile			
Disporum sessue Disporum smilacinum			
Fritillaria camtschatcensis			
* Gagea lutea			
		T 77 T	
Gagea vaginata		VU	
Heloniopsis orientalis			
Hemerocallis middendorffii			
Hemerocallis yezoensis			
Hosta rectifolia			
Lilium cordatum var. glehnii			
Lilium maculatum var. dauricum			
Lilium medeoloides			
Lilium medeoloides var. kurilense			
* Lloydia serotina			
Maianthemum dilatatum			
Paris verticillata			
Polygonatum humile			
Polygonatum odoratum var. maximowiczii			
Smilacina japonica			
Smucina japonica			
Streptopus amplexifolius var. papillatus			

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Scientific name	IUCN RL**	MoE RL***	Endemic to Japan****
Tofieldia coccinea			
Tofieldia coccinea var. fusca			
* Tofieldia okuboi			
Trillium apetalon			
Trillium apetalon var. atropurpureocarpum			
Trillium hagae		CR	
Trillium kamtschaticum			
Trillium tschonoskii			
Veratrum grandiflorum			
IRIDACEAE			
Iris ensata var. spontanea			
Iris setosa			
ORCHIDACEAE			
Calanthe nipponica		EN	
Calanthe tricariata		EN	
* Cephalanthera erecta		211	
Cephalanthera longibracteata			
* Coeloglossum viride var. bracteatum			
Cremastra appendiculata			
Ephippianthus schmidtii			
Epipactis papillosa			
Gastrodia elata			
Goodyera maximowiczianum			
Goodyera repens			
Gymnadenia camtschatica			
* Gymnadenia cucullata			
Liparis makinoana			
Listera cordata			
Listera coracia Listera pinetorum			
Microstylis monophyllos			
Myrmechis japonica			
Orchis aristata			
Oreorchis patens Platanthera chorisiana		7/11	
		VU	
Platanthera metabifolia			
Platanthera phrydioides			
Platanthera phrydioides var. takedae			
Platanthera sachalinensis			
Platanthera tipuloides			
Spiranthes sinensis			

Iwatsuki, K. (1992) Ferns and Fern Allies of Japan. HEIBONSHA Ltd., Publishers, Tokyo (in japanese). Sato, K., Nishikawa, T., Sakai, S., Matsui, K., Kohyama, T., Koike, F., Kobayashi, M. and Ito, K. (1985) Flora of Vascular Plants of the Onnebetsudake Wilderness area and Shiretoko Peninsula. In: Conservation Reports of the Onnebetsu-dake Wilderness Area, Hokkaido, Japan, pp.115-172. Nature Conservation Bureau, Environment Agency, Japan (in Japanese with English summary).

Satake, Y., Hara, H., Watari, A. and Tominari, T. (1989) Wild Flowers of Japan, Wood Plants. HEIBONSHA Ltd., Publishers, Tokyo (in Japanese).

Satake, Y., Ohwi, J., Kitamura, S., Watari, A. and Tominari, T. (1982) WildFlowers of Japan. HEIBONSHA Ltd., Publishers, Tokyo(in Japanese).

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Other Vascular Plants Recorded on Shiretoko Peninsula

From the Records of Shiretoko Museum (July 2003) except species listed by Sato, K. et al. (1985).

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Scientific name	MoE RL***	Endemic to Japan****
PTERIDACEAE		•
Pleurosoriopsis makinoi		
ASPIDIACEAE		
Athyrium neglectum		
Dryopteris coreano-montana		
Polystichum microchlamys		
Polystichum craspedosorum		
Leptogramma pozoi ssp. mollissima		
Cystopteris fragilis ASPLENIACEAE		
Asplenium trichomanes		
CARYOPHYLLACEAE		
Silene dichotoma		
Stellaria sessilifolia		
RANUNCULACEAE		
Anemone dichotoma	VU	
Ranunculus silerifolius		
VIOLACEAE		
Viola biflora		
Viola patrinii		
ONAGRACEAE		
Epilobium pyrricholophum		
Oenothera erythrosepala		
Oenothera biennis		
PYROLACEAE		
Pyrola japonica		
GENTIANACEAE		
Pterygocalyx volubilis	EN	
BORAGINACEAE		
Cynoglossum asperrimum		
Mysotis arvensis		
Symphytum officinale		
LABIATAE		
Glechoma hederacea var. grandis SCROPHULARIACEAE		
Veronica tenella		
COMPOSITAE		
Crepis tectorum		
SPARGANIACEAE		
Sparganium glomeratum	VU	
Sparganium angustifolium	VU	
ZOSTERACEAE		
Phyllospadix iwatensis		
Zostera marina		
SCHEUCHZERIACEAE		
Triglochin palustre	VU	
CYPERACEAE		
Carex breviculmis var. discoidea ARACEAE		
Symplocarpus nipponicus		
IRIDACEAE		
Iris pseudacorus		

^{****} Endemic based on Satake et al. (1982; 1989) and Iwatsuki (1992), listed as "endemic to Japan" or "limited to Japan"

Scientific name	MoE RL***	Endemic to Japan****
ORCHIDACEAE		
Amitostigma kinoshitae	VU	
Dactylostalix ringens		
Neottia asiatica	VU	
Neottia japonica		
Pogonia japoncia	VU	
LEMNACEAE		
Spirodela polyrhiza		

Iwatsuki, K. (1992) Ferns and Fern Allies of Japan. HEIBONSHA Ltd., Publishers, Tokyo (in japanese). Sato, K., Nishikawa, T., Sakai, S., Matsui, K., Kohyama, T., Koike, F., Kobayashi, M. and Ito, K. (1985)

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In: Conservation Reports of the Onnebetsu-dake Wilderness Area, Hokkaido, Japan, pp.115-172.

Nature Conservation Bureau, Environment Agency, Japan (in Japanese with English summary).

Satake, Y., Hara, H., Watari, A. and Tominari, T. (1989) Wild Flowers of Japan, Wood Plants. HEIBONSHA Ltd., Publishers, Tokyo (in Japanese).

Satake, Y., Ohwi, J., Kitamura, S., Watari, A. and Tominari, T. (1982) WildFlowers of Japan. HEIBONSHA Ltd., Publishers, Tokyo(in Japanese).

^{***} Red List Categories of Japanese Ministry of the Environment, details are given on the last page

The Seaweeds of Shiretoko Peninsula and its **Coastal Area**From Kurogi *et al.* (1985) and Yamada and Tanaka (1944)

 $\ensuremath{^{****}}$ Data Book Categories of Japanese Fisheries Agency, details are given on the last page

Scientific name	FA DB****
CHLOROPHYCEAE	
CHLOROCOCCALES	
Endosphaeraceae	
Chlorochytrium inclusum	
Codiolum gregarium	
ULOTRICHALES	
Ulotrichaceae	
Ulothrix flacca	
Ulothrix implexa	
Ulothrix flexuosa	
ULVALES	
Capsosiphonaceae	
Capsosiphon groenlandicus	R
Kornmanniaceae	
Kornmannia leptoderma	
Monostromataceae	
Monostroma angicava	
Monostroma crassidermum	
Protomonostroma undulatum	
Ulvaceae	
Blidingia minima	
Enteromorpha compressa	
Enteromorpha intestinalis	
Enteromorpha linza	
Ulva pertusa Ulvaria fusca	
CLADOPHORALES	
Cladophoraceae	
Chaetomorpha aerea	
Chaetomorpha moniligera	
Cladophora arenaria	
Cladophora opaca	
Cladophora stimpsonii	
Rhizoclonium tortuosum	
Rhizoclonium lubricum	
ACROSIPHONIALES	
Acrosiphoniaceae	
Spongomorpha heterocladia	
Spongomorpha duriuscula var. cartilaginea	
Urospora penicilliformis	
Urospora wormskioldii	
CODIALES	
Codiaceae	
Codium yezoense	
BRYOPSIDALES	
Derbesiaceae	
Derbesia marina	
PHAEOPHYCEAE	
ECTOCARPALES	
Pilayellaceae	
Pilayella littoralis	
RALFSIALES	
Ralfsiaceae	
Analipus filiformis	
Analipus japonicus	
Ralfsia fungiformis	

**** Data Book Categories of Japanese Fisheries Agency, details are given on the last page

Scientific name	FA DB****
SPHACELARIALES	
Sphacelariaceae	
Sphacelaria rigidula	
DICTYOTALES	
Dictyotaceae	
Dictyopteris divaricata	
Dictyota dichotoma	
CHORDARIALES	
Acrotrichaceae	
Acrothrix pacifica	
Chordariaceae	
Chordaria flagelliformis	
Saundersella simplex	
Sphaerotrichia divaricata	
Elachistaceae	
Halothrix ambigua	
Leathesiaceae	
Leathesia difformis	
Leathesia sphaerocephala	
DICTYOSIPHONALES	
Coilodesmaceae	
Akkesiphycus lubricum	R
Coilodesme cystoseirae	
Coilodesme japonica	
Dictyosiphonaceae	
Dictyosiphon chordaria	
Dictyosiphon foeniculaceus	
Punctariaceae	
Punctaria latifolia	
SCYTOSIPHONALES	
Scytosiphonaceae	
Colpomenia bullosa	
Colpomenia sinuosa	
Petalonia binghamiae	
Petalonia fascia	
Scytosiphon lomentaria	
DESMARESTIALES	
Desmarestiaceae	
Desmarestia ligulata	
Desmarestia viridis	
LAMINARIALES	
Alariaceae	
Alaria angusta	
Chordaceae	
Chorda filum	
Laminariaceae	
Agarum clathratum	
Costaria costata	
Cymathaere japonica	R
Laminaria diabolica	
Laminaria ochotensis	
Laminaria sachalinensis	
FUCALES	
Fucaceae	
Fucus distichus subsp. evanescens	
Silvetia babingtonii	
Sargassaceae	
Cystoseira crassipes	
Cystoseira hakodatensis	
Sargassum confusum	
Sargassum miyabei	
Sargassum mivadei	li li

**** Data Book Categories of Japanese Fisheries Agency, details are given on the last page

Scientific name	FA DB****
RHODOPHYCEAE	
GONIOTRICHALES	
Goniotrichaceae	
Stylonema alsidii	
ERYTHROPELTIDALES	
Erythropeltidaceae	
Erythrotrichia carnea	
BANGIALES	
Bangiaceae	
Porphyra crassa	
Porphyra kurogii	
Porphyra occidentalis	
Porphyra ochotensis	
Porphyra onoi	
Porphyra pseudocrassa	
Porphyra pseudolinearis	
Porphyra variegata	
PALMARIALES	
Palmariaceae	
Halosaccion firmum	
Halosaccion yendoi	
Palmaria palmata	
Rhodophysemataceae	
Rhodophysema georgii	
CORALLINALES	
Corallinaceae	
Bossiella cretacea	
Clathromorphum reclinatum	
Corallina pilulifera	
GIGARTINALES	
Dumontiaceae	
Dumontia contorta	
Masudaphycus irregulare	
Neodilsea crispata	
Neodilsea yendoana	
Endocladiaceae	
Gloiopeltis furcata	
Gigartinaceae	
Chondrus ocellatus	
Chondrus pinnulatus	
Chondrus yendoi	
Mazzaella japonica	
Halymeniaceae	
Grateloupia divaricata	
Kallymeniaceae	
Callophyllis cristata	
Callophyllis rhynchocarpa	
Petrocelidaceae	
Mastocarpus pacificus	
Rhodophyllidaceae	
Rhodophyllis capillaris	
Tichocarpaceae	
Tichocarpus crinitus	
GRACILARIALES	
Gracilariaceae	
Gracilaria vermiculophylla	
RHODYMENIALES	
Champiaceae	
Lomentaria hakodatensis	
Rhodymeniaceae	
Sparlingia pertusa	

**** Data Book Categories of Japanese Fisheries Agency, details are given on the last page

	Scientific name	FA DB****
CERAN	HALES	
Cer	amiaceae	
	Antithamnion densum	
	Antithamnion crassa	
	Antithamnion hypnaeoides	
	Ceramium cimbricum	
	Ceramium kondoi	
	Ptilota filicina	
	Ptilota phacelocarpoides	
	Tokidaea corticata	
Dele	esseriaceae	
	Acrosorium yendoi	
	Branchioglossum nanum	
	Congregatocarpus pacificus	
	Hideophyllum yezoense	
	Neoholmesia japonica	
	Neohypophyllum middendorfii	
	Tokidadendron kurilensis	
Rho	domelaceae	
	Chondria dasyphylla	
	Enelittosiphonia stimpsonii	
	Janczewskia morimotoi	
	Laurencia nipponica	
	Neorhodomela aculeata	
	Neorhodomela munita	
	Neosiphonia japonica	
	Odonthalia annae	
	Odonthalia corymbifera	
	Polysiphonia morrowii	
	Polysiphonia senticulosa	
	Pterosiphonia bipinnata	
	Rhodomela teres	
	Symphyocladia latiuscula	
	Symphyocladia marchantioides	

Kurogi, M., Yamada, I. and Masuda, M. (1985) Marine flora and its vegetation of Rausu Coastal Area on the East Side of Shiretoko Peninsula. In: Comprehensive Report on the Kelp in Rausu Sea Area, pp.1-82. Rausu Fishermen's Cooperative, Rausu town, Menashi-gun, Hokkaido (in Japanese).

Yamada, Y. and Tanaka, T. (1944) Report on Seaweeds of Kitami Coastal Area of Shiretoko Peninsula. Hokusuishi Monthly Report 1 (3): 165-171 (in Japanese).

Cold Current/Warm Current Species of Seaweed

Based on Kurogi et al. (1985)

Cold Current Species

Scientific name CHLOROPHYCEAE

ULVALES

Capsosiphonaceae

Capsosiphon groenlandicus

Monostromataceae

Monostroma crassidermum

Ulvaceae

Ulvaria fusca

CLADOPHORALES

Cladophoraceae

Rhizoclonium tortuosum

ACROSIPHONIALES

Acrosiphoniaceae

Spongomorpha heterocladia

Spongomorpha duriuscula var. cartilaginea

Urospora wormskioldii

PHAEOPHYCEAE

RALFSIALES

Ralfsiaceae

Analipus filiformis

CHORDARIALES

Chordaria flagelliformis

Saundersella simplex

DICTYOSIPHONALES

Coilodesmaceae

Akkesiphycus lubricum

Coilodesme cystoseirae

LAMINARIALES

Alariaceae

Alaria angusta

Laminariacea

Cymathaere japonica Laminaria diabolica

Laminaria sachalinensis

FUCALES

Fucaceae

Fucus distichus subsp. evanescens

Sargassaceae

Cystoseira crassipes

RHODOPHYCEAE

BANGIALES

Bangiaceae

Porphyra kurogii

Porphyra occidentalis

PALMARIALES

Palmariaceae

Halosaccion firmum Halosaccion yendoi

GIGARTINALES

Dumontiaceae

Masudaphycus irregulare

Kallymeniacea

Callophyllis cristata

Callophyllis rhynchocarpa

Rhodophyllidaceae

Rhodophyllis capillaris

CERAMIALES

Rhodomelaceae

Odonthalia annae

Odonthalia corymbifera

Pterosiphonia bipinnata

Warm Current Species

Scientific name

CHLOROPHYCEAE

CLADOPHORALES

Cladophoraceae

Chaetomorpha aerea

BRYOPSIDALES

Derbesiaceae

Derbesia marina

PHAEOPHYCEAE

DICTYOTALES

Dictyopteris divaricata

Dictyota dichotoma

CHORDARIALES

Acrotrichaceae

Acrothrix pacifica

Chordariaceae

Sphaerotrichia divaricata

SCYTOSIPHONALES

Scytosiphonaceae

Colpomenia bullosa

Petalonia binghamiae

LAMINARIALES

Laminariacea

Agarum clathratum Laminaria ochotensis

FUCALES

Cystoseira hakodatensis

Sargassum confusum

Sargassum miyabei

Sargassum thunbergii

RHODOPHYCEAE BANGIALES

Bangiaceae

Porphyra onoi

GIGARTINALES

Halvmeniaceae

Grateloupia divaricata

RHODYMENIALES

Champiaceae

Lomentaria hakodatensis

CERAMIALES

Antithamnion crassa

Antithamnion hypnaeoides

Ceramium kondoi

Delesseriaceae

Acrosorium vendoi

Branchioglossum nanum

Hideophyllum yezoense Neoholmesia japonica

Rhodomelaceae

Chondria dasyphylla

Enelittosiphonia stimpsonii

Laurencia nipponica Neorhodomela munita

Polysiphonia morrowii

Polysiphonia senticulosa

Symphyocladia latiuscula Symphyocladia marchantioides

References

Kurogi, M., Yamada, I. and Masuda, M. (1985) Marine flora and its vegetation of Rausu Coastal Area on the East Side of Shiretoko Peninsula. In: Comprehensive Report on the Kelp in Rausu Sea Area, pp.1-82. Rausu Fishermen's Cooperative, Rausu town, Menashi-gun, Hokkaido (in Japanese)

The Mammals of Shiretoko Peninsula and its Coastal Area

Terrestrial mammals are from Shiretoko Museum (2000), Marine mammals are from Ito (1970), Kawamura (1981), Ohtaishi & Saito (1981), Ohtaishi and Nakagawa (1988), Sato (1998), Ishinazaka and Uni (2000), and revised with comments by Ohtaishi (September 17, 2003). Endemic based on Abe *et al.* (1994)

^{****} Data Book Categories of Japanese Fisheries Agency, details are given on the last page

Scientific name	IUCN RL**	MoE RL***	FA DB ****	Endemic to Japan
INSECTIVORA				
Soricidae				
Sorex minutissimus hawkeri		VU		
Sorex gracillimus				
Sorex caecutiens saevus				
Sorex unguiculatus				
CHIROPTERA				
Vespertilionidae				
Myotis mystacinus		VU		
Myotis ikonnikovi	EN	EN		
Myotis macrodactylus				
Myotis daubentonii		VU		
Myotis frater	LR/nt	VU		
Eptesicus nilssonii	EN	EN		
Plecotus auritus		VU		
Barbastella leucomelas		VU		
Murina ussuriensis		VU		
LAGOMORPHA				
Leporidae				
Lepus timidus ainu				
RODENTIA				
Sciuridae				
Sciurus vulgaris orientis	NT			
Tamias sibiricus lineatus				
Pteromys volans orii				
Muridae				
Clethrionomys rutilus mikado				
Clethrionomys rufocanus bedfordiae				
Apodemus argenteus				
Apodemus peninsulae giliacus				
Apodemus speciosus				
Mus musculus				
Rattus rattus				
Rattus norvegicus				
CARNIVORA				
Canidae				
Vulpes vulpes schrencki				
Nyctereutes procyonoides albus				
Ursidae				
Ursus arctos				
Procyonidae				
Procyon lotor				
Mustelidae				
Mustela erminea orientalis		NT		
Mustela nivalis nivalis				
Mustela itatsi				
Mustela vison				
Martes zibellina brachura				
Otariidae				
Callorhinus ursinus	VU		D	
Eumetopias jubatus	EN	VU	R	

^{**} Red List categories of IUCN, details are given on the last page

^{***} Red List Categories of Japanese Ministry of the Environment, details are given on the last page

- ** Red List categories of IUCN, details are given on the last page
- *** Red List Categories of Japanese Ministry of the Environment, details are given on the last page
- **** Data Book Categories of Japanese Fisheries Agency, details are given on the last page

Scientific name	IUCN RL**	MoE RL***	FA DB ****	Endemic to Japan
Phocidae				_
Phoca largha			TD	
Phoca vitulina		EN	VU	
Phoca hispida			DT	
Phoca fasciata			TD	
Erignathus barbatus	***************************************		D	
ARTIODACTYLA				
Cervidae				
Cervus nippon yesoensis				
CETACEA				
Eschrichtiidae				
Eschrichtius robustus	CR		EN	
Balaenopteridae				
Balaenoptera acutorostrata	LR/nt		TD	
Megaptera novaeangliae	VU		R	
Balaenoptera borealis	EN		D	
Ziphiiadae				
Ziphius cavirostris			R	
Berardius bairdii	LR/cd		D	
Mesoplodon stejnegeri			R	
Mesoplodon carlhubbsi			R	
Mesoplodon ginkgodens			R	
Delphinidae				
Lagenorhynchus obliquidens			TD	
Orcinus orca	LR/cd		R	
Stenella coeruleoalba	LR/cd		D	
Lissodelphis borealis				
Tursiops truncatus			TD	
Delphinus delphis			TD	
Pseudorca crassidens			DT	
Globicephala melas				
Globicephala macrorhynchus	LR/cd		D	
Phocoenidae				
Phocoena phocoena	VU		R	
Phocoenoides dalli	LR/cd		TD	
Physeteridae				
Physeter macrocephalus	VU		TD	

Abe, H., Ishii, N., Kaneko, K., Maeda, K., Miura, S. and Yoneda, M. (1994) A Pictorial Guide to the Mammals of Japan. Tokai University Press, Tokyo (in Japanese).

Ishinazaka, T. and Uni, Y. (2000) Marine Mammals. In: Mammals of Shiretoko I. (Edited by Shiretoko Museum), pp.162-225. Shari town and Shari town Board of Education (in Japanese).

Itoo, T. (1970) Survey of the Pinnipeds in Hokkaido. Mammalian Science 19: 67-68 (in Japanese).

Kawamura, A. (1981) Distribution of Whales on Okhotsk Sea Coast of Hokkaido. In: Report of the Survey on Vertebrate Communities in Shiretoko Peninsula, Hokkaido, Japan, pp. 182-188. Natural Conservation Division, Department of Lifestyle and Environment, Hokkaido (in Japanese).

Ohtaishi, N. and Saito, T. (1981) Pinnipedia of Shiretoko Coast and Migration of Steller's sea-lion on the Coast of Hokkaido. In: Report of the Survey on Vertebrate Communities in Shiretoko Peninsula, Hokkaido, Japan, pp.165-181. Natural Conservation Division, Department of Lifestyle and Environment, Hokkaido (in Japanese).

Ohtaishi, N. and Nakagawa, H. (1988) Animals of Shiretoko. Hokkaido University Press, Sapporo (in Japanese with English summary).

Sato, H. (1998) A Migratory Route for Whales and Dolphins Supported by a Rich Environment. SCIaS 49: 78-81 (in Japanese).

Shiretoko Museum (2000) Mammals of Shiretoko I. Shari town and Shari town Board of Education (in Japanese).

The Birds of Shiretoko Peninsula and its Coastal

From Nagata (1956), Japanese Society for Preservation of Birds (2001) and Shiretoko Museum (unpublished) Endemic birds based on Wild Birds Society of Japan (1982)

^{****} Data Book Categories of Japanese Fisheries Agency, details are given on the last page

Scientific name	IUCN RL**	MoE RL***	FA DB****	Endemic to Japan
GAVIIFORMES				
Gaviidae				
Gavia stellata				
Gavia arctica				
Gavia pacifica				
Gavia adamsii				
PODICIPEDIFORMES				
Podicipedidae				
Tachybaptus ruficollis				
Podiceps nigricollis				
Podiceps auritus				
Podiceps grisegena				
Podiceps cristatus				
PROCELLARIIFORMES				
Procellariidae				
Fulmarus glacialis				
Puffinus carneipes				
Puffinus griseus				
Puffinus tenuirostris				
Hydrobatidae				
Oceanodroma furcata				
Oceanodroma leucorhoa				
PELECANIFORMES				
Phalacrocoracidae				
Phalacrocorax capillatus				
Phalacrocorax pelagicus				
Phalacrocorax urile		CR	EN	
CICONIIFORMES				
Ardeidae				
Gorsachius goisagi	EN	NT		
Ardeola bacchus				
Bubulcus ibis				
Egretta intermedia		NT	R	
Egretta garzetta				
Ardea cinerea				
ANSERIFORMES				
Anatidae				
Branta bernicla		VU	R	
Anser albifrons		NT		
Anser fabalis		VU		
Cygnus olor				
Cygnus cygnus				
Cygnus columbianus				
Aix galericulata				
Anas platyrhynchos				
Anas poecilorhyncha				
Anas crecca				
Anas formosa	VU	VU		
Anas falcata				
Anas strepera				
Anas penelope				
Anas acuta				
Anas clypeata				
Aythya ferina				

^{**} Red List categories of IUCN, details are given on the last page

^{***} Red List Categories of Japanese Ministry of the Environment, details are given on the last page

IUCN RL**	MoE RL***	FA DB****	Endemic to Japan
	NT		
LR/nt	EN		
	NT		
	111		
-	EN		
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	ENI		
	EN		
	VU		
	VU		
EN	VU		
			+
1			
	LR/nt VU	NT LR/nt EN VU VU NT EN EN VU VU	NT LR/nt EN VU VU NT EN EN VU VU VU VU VU VU VU VU VU V

^{**} Red List categories of IUCN, details are given on the last page

*** Red List Categories of Japanese Ministry of the Environment, details are given on the last page

**** Data Book Categories of Japanese Fisheries Agency, details are given on the last page

Scientific name	IUCN RL**	MoE RL***	FA DB ****	Endemic t Japan
Calidris ruficollis				
Calidris subminuta				
Calidris alpina				
Calidris tenuirostris				
Crocethia alba				
Limicola falcinellus				
Tringa erythropus				
Tringa nebularia				
Tringa glareola				
Heteroscelus brevipes				
Actitis hypoleucos				
Numenius phaeopus				
Scolopax rusticola				
Gallinago gallinago				
Gallinago stenura				
Gallinago megala				
Gallinago hardwickii		NT		
Gallinago solitaria				
Recurvirostridae				
Himantopus himantopus		EN	R	
Phalaropodidae				
Phalaropus fulicarius				
Phalaropus lobatus				
Stercorariidae				
Stercorarius pomarinus				
Stercorarius parasiticus				
Stercorarius longicaudus				
Laridae				
Larus ridibundus				
Larus heuglini				
Larus argentatus				
Larus schistisagus				
Larus glaucescens				
Larus hyperboreus				
Larus glaucoides				
Larus canus				
Larus crassirostris				
Rissa tridactyla				
Rhodostethia rosea				
Pagophila eburnea				
Chlidonias leucopterus				
Sterna hirundo				
Alcidae		CD	EN	
Uria aalge		CR	EN	
Uria lomvia				
Cepphus columba		T 7T T	TINT	
Cepphus carbo		VU	EN	
Brachyramphus marmoratus		CD	R	
Synthliboramphus antiquus		CR	EN	
Aethia cristatella				
Aethia pusilla				
Aethia psittacula				
Cerorhinca monocerata				
Fratercula corniculata		GT.	F3.7	
Lunda cirrhata		CR	EN	
LUMBIFORMES				
Columbidae				
Streptopelia orientalis		İ		

^{**} Red List categories of IUCN, details are given on the last page

*** Red List Categories of Japanese Ministry of the Environment, details are given on the last page

**** Data Book Categories of Japanese Fisheries Agency, details are given on the last page

Scientific name	IUCN RL**	MoE RL***	FA DB****	Endemic to Japan
Sphenurus sieboldii				
CUCULIFORMES				
Cuculidae				
Cuculus fugax				
Cuculus canorus				
Cuculus saturatus				
Cuculus poliocephalus				
STRIGIFORMES				
Strigidae				
Nyctea scandiaca		~-		
Bubo bubo	TIM	CR		
Ketupa blakistoni	EN	CR		
Asio otus				
Asio flammeus				
Otus scops				
Otus lempiji				
Aegolius funereus		EN		
Ninox scutulata				
Strix uralensis				
CAPRIMULGIFORMES				
Caprimulgidae				
Caprimulgus indicus				
APODIFORMES				
Apodidae				
Hirundapus caudacutus				
Apus pacificus				
CORACIIFORMES				
Alcedinidae				
Ceryle lugubris				
Halcyon coromanda				
Alcedo atthis				
Upupidae				
Upupa epops				
PICIFORMES				
Picidae				
Jynx torquilla				
Picus canus				
Dryocopus martius		VU		
Dendrocopos major		, 0		
Dendrocopos leucotos				
Dendrocopos minor				
Dendrocopos kizuki				
PASSERIFORMES				
Alaudidae				
Alauda arvensis				
Hirundinidae				
Riparia riparia				-
Hirundo rustica Hirundo daurica				-
Delichon urbica				
Motacillidae				
Motacilla flava				
Motacilla cinerea				
Motacilla alba				
Motacilla grandis				
Anthus hodgsoni				
Anthus spinoletta				

^{**} Red List categories of IUCN, details are given on the last page

*** Red List Categories of Japanese Ministry of the Environment, details are given on the last page

**** Data Book Categories of Japanese Fisheries Agency, details are given on the last page

Scientific name	IUCN RL**	MoE RL***	FA DB****	Endemic t Japan
Pycnonotidae				
Hypsipetes amaurotis				
Laniidae				
Lanius bucephalus				
Lanius cristatus		NT		
Lanius excubitor				
Bombycillidae				
Bombycilla garrulus				
Bombycilla japonica	LR/nt			
Cinclidae				
Cinclus pallasii				
Troglodytidae				
Troglodytes troglodytes				
Prunellidae				
Prunella collaris				
Prunella rubida				
Turdidae				
Erithacus akahige				
Luscinia calliope				
Luscinia cyane				
Tarsiger cyanurus				
Phoenicurus ochruros				
Phoenicurus auroreus				
Saxicola torquata				
Monticola solitarius				
Zoothera dauma				
Turdus sibiricus				
Turdus cardis				
Turdus chrysolaus				
Turdus pallidus				
Turdus obscurus				
Turdus naumanni				
Turdus pilaris				
Sylviidae				
Urosphena squameiceps				
Cettia diphone				
Locustella fasciolata				
Locustella ochotensis				
Locustella lanceolata				
Acrocephalus bistrigiceps				
Acrocephalus arundinaceus				
Phylloscopus borealis				
Phylloscopus borealoides				
Phylloscopus coronatus				
Regulus regulus				
Muscicapidae Ficedula narcissina				
Cyanoptila cyanomelana				
Muscicapa sibirica				
Muscicapa griseisticta				
Muscicapa dauurica				
Aegithalidae				
Aegithalos caudatus				
Paridae				
Parus palustris				
Parus montanus				
Parus ater				
Parus varius				

^{**} Red List categories of IUCN, details are given on the last page

*** Red List Categories of Japanese Ministry of the Environment, details are given on the last page

**** Data Book Categories of Japanese Fisheries Agency, details are given on the last page

 $^{^{****}}$ Data Book Categories of Japanese Fisheries Agency, details are given on the last page

Scientific name	IUCN RL**	MoE RL***	FA DB****	Endemic to Japan
Parus major				
Sittidae				
Sitta europaea				
Certhiidae				
Certhia familiaris				
Zosteropidae				
Zosterops japonicus				
Emberizidae				
Emberiza leucocephalos				
Emberiza cioides				
Emberiza fucata				
Emberiza rustica				
Emberiza elegans				
Emberiza aureola		NT		
Emberiza sulphurata	VU	NT		
Emberiza spodocephala				
Emberiza variabilis				
Emberiza schoeniclus				
Calcarius lapponicus				
Plectrophenax nivalis				
Fringillidae				
Fringilla montifringilla				
Carduelis sinica				
Carduelis spinus				
Carduelis flammea				
Leucosticte arctoa				
Carpodacus roseus				
Pinicola enucleator				
Loxia curvirostra				
Loxia leucoptera				
Uragus sibiricus				
Pyrrhula pyrrhula				
Eophona personata				
Coccothraustes coccothraustes				
Ploceidae				
Passer rutilans				
Passer montanus				
Sturnidae				
Sturnus philippensis				
Sturnus cineraceus				
Corvidae				
Garrulus glandarius				
Pica pica				
Nucifraga caryocatactes				
Corvus corone				
Corvus macrorhynchos				
Corvus corax				

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^{**} Red List categories of IUCN, details are given on the last page

^{***} Red List Categories of Japanese Ministry of the Environment, details are given on the last page

The Reptiles of Shiretoko Peninsula and its Coastal Area

From the records of Shiretoko Museum, August 2003 Endemic based on Uchiyama $et\ al.\ (2002)$

**** Data Book Categories of Japanese Fisheries Agency, details are given on the last page

Scientific name	FA DB****	Endemic to Japan
SQUAMATA		
LACERTILIA		
Lacertidae		
Takydromus tachydromoides		
Scincidae		
Eumeces latiscutatus		
SERPENTES		
Colubridae		
Elaphe climacophora		
Elaphe quadrivirgata		
Elaphe conspicillata		
Viperidae		
Agkistrodon blomhoffii		
TESTUDINATA		
Dermochelyidae		
Dermochelys coriacea	EN	

The Amphibians of Shiretoko Peninsula

From the records of Shiretoko Museum, August 2003 Endemic based on Uchiyama *et al.* (2002)

Scientific name	Endemic to Japan
CAUDATA	
Hynobiidae	
Hynobius retardatus	
SALIENTIA	
Ranidae	
Rana pirica	
Hylidae	
Hyla japonica	

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The Fishes of Shiretoko Peninsula and its Coastal Area From Shiretoko Museum (2003)

Scientific name	IUCN RL**	MoE RL***	FA DB****
PETROMYZONTIFORMES	10 01 (112	11102112	11122
Petromyzontidae			
Lethenteron japonicum			
Lethenteron kessleri		NT	R
CHIMAERIFORMES			
Chimaeridae			
Hydrolagus barbouri			
CARCHARHINIFORMES			
Carcharhinidae			
Prionace glauca			TD
LAMNIFORMES			
Lamnidae			
Lamna ditropis			
SQUALIFORMES			
Dalatiidae			
Somniosus pacificus			
Squalidae			
Squalus acanthias			DT
RAJIFORMES			
Rajidae			
Raja pulchra			
Bathyraja diplotaenia			
Bathyraja violacea			
Bathyraja matsubarai			
Bathyraja minispinosa			
Bathyraja aleutica			
Bathyraja smirnovi			
Bathyraja bergi			
Bathyraja lindbergi			
Rhinoraja kujiensis			
Dasyatidae			
Dasyatis matsubarai			
ACIPENSERIFORMES			
Acipenseridae			
Huso dauricus	EN		
Acipenser medirostris	EN		EN
ALBULIFORMES			
Notacanthidae			
Notacanthus chemnitzi			
ANGUILLIFORMES			
Synaphobranchidae			
Synaphobranchus kaupii			
Congridae			
Conger sp.			
CLUPEIFORMES			
Engraulidae			
Engraulis japonicus			
Clupeidae			
Clupea pallasii			D
Etrumeus teres			
Sardinops melanostictus			

^{**} Red List categories of IUCN, details are given on the last page

 $[\]ensuremath{^{***}}$ Red List Categories of $\ensuremath{^{\text{Japanese}}}$ Ministry of the Environment, details are given on the last page
**** Data Book Categories of Japanese Fisheries Agency, details are given on the last page

Scientific name	IUCN RL**	MoE RL***	FA DB****
CYPRINIFORMES			
Cyprinidae			
Tribolodon hakonensis			
Tribolodon brandti			
Tribolodon ezoe			
Phoxinus percnurus sachalinensis		NT	
Carassius auratus langsdorfii			
Cyprinus carpio			
Cobitidae			
Noemacheilus barbatulus toni			
Misgurnus anguillicaudatus			
OSMERIFORMES			
Osmeridae			
Osmerus eperlanus mordax			
Hypomesus japonicus			
Hypomesus nipponensis			
Salangidae			
Salangichthys microdon			
SALMONIFORMES			
Salmonidae			
Hucho perryi		EN	VU
Salvelinus leucomaenis			
Salvelinus malma		NT	D
Oncorhynchus keta			
Oncorhynchus tschawytscha			
Oncorhynchus gorbuscha			
Oncorhynchus nerka			
Oncorhynchus masou masou			D
Oncorhynchus kisutch			
Oncorhynchus mykiss			
Salmo trutta			
Salmo salar			
STOMIIFORMES			
Stomiidae			
Chauliodus macouni			
AULOPIFORMES			
Notosudidae			
Scopelosaurus harryi			
Paralepididae			
Paralepis atlantica			
Anotopteridae			
Anotopterus nikparini			
Alepisauridae			
Alepisaurus ferox			
MYCTOPHIFORMES			
Myctophidae			
Nannobrachium regale			
Lampanyctus jordani			
LAMPRIDIFORMES			
Trachipteridae			
Trachipterus ishikawae			DT
GADIFORMES			
Macrouridae			
Coryphaenoides pectoralis			1
Coryphaenoides acrolepis			
Coryphaenoides cinereus			
Moridae			
Physiculus maximowiczi			
Antimora microlepis			

 $^{^{**}}$ Red List categories of IUCN, details are given on the last page *** Red List Categories of $\,$ Japanese Ministry of the Environment, details are given on the last page
**** Data Book Categories of Japanese Fisheries Agency, details are given on the last page

Scientific name	IUCN RL**	MoE RL***	FA DB****
Laemonema longipes			
Gadidae			
Theragra chalcogramma			
Gadus macrocephalus			
Eleginus gracilis			
LOPHIIFORMES			
Lophiidae			
Lophius litulon			TD
MUGILIFORMES			
Mugilidae			
Mugil cephalus cephalus			
Chelon haematocheilus			
BELONIFORMES			
Scomberesocidae			
Cololabis saira			
Hemiramphidae			
Hyporhamphus sajori			
CYPRINODONTIFORMES			
Poeciliidae			
Poecilia reticulata			
STEPHANOBERYCIFORMES			
Melamphaidae			
Poromitra crassiceps			
Cetomimidae			
Cetomimus compunctus			
ZEIFORMES			
Zeidae			
Zeus faber			
Zenopsis nebulosa			
Oreosomatidae			
Allocyttus verrucosus			
GASTEROSTEIFORMES			
Hypoptychidae			
Hypoptychus dybowskii			
Gasterosteidae			
Gasterosteus aculeatus (Sea of Japan form)			
Gasterosteus aculeatus (Pacific Ocean form)			
Pungitius tymensis		NT	
Pungitius pungitius (freshwater type)			
Pungitius pungitius (brackish-water type)			
Syngnathidae			
Syngnathus schlegeli			
SCORPAENIFORMES			
Scorpaenidae			
Sebastes glaucus			
Sebastes alutus			
Sebastes flammeus			
Sebastes borealis			
Sebastes steindachneri			
Sebastes taczanowskii			D
Sebastes wakiyai			
Sebastes minor			
Sebastes schlegelii			
Sebastes vulpes			D
Sebastes trivittatus			
Sebastolobus macrochir			DT
Triglidae			
Lepidotrigla kishinouyei			
zeptaon iga montonyer	1	1	1

 $^{^{**}}$ Red List categories of IUCN, details are given on the last page *** Red List Categories of $\,$ Japanese Ministry of the Environment, details are given on the last page
**** Data Book Categories of Japanese Fisheries Agency, details are given on the last page

Scientific name	IUCN RL**	MoE RL***	FA DB****
Anoplopomatidae			
Erilepis zonifer			
Anoplopoma fimbria			
Hexagrammidae			
Hexagrammos stelleri			
Hexagrammos otakii			
Hexagrammos octogrammus			
Hexagrammos lagocephalus			
Pleurogrammus azonus			
Pleurogrammus monopterygius			
Cottidae			
Hemilepidotus gilberti			
Icelus cataphractus			
Icelus canaliculatus			
Icelus mandibularis			
Triglops jordani			
Triglops scepticus			
Cottus hangiongensis			
Cottus amblystomopsis			
Enophrys diceraus			
Taurocottus bergi			
Myoxocephalus stelleri			
Myoxocephalus brandti			
Myoxocephalus polyacanthocephalus			
Myoxocephalus jaok			
Porocottus allisi			
Porocottus tentaculatus			
Argyrocottus zanderi			
Cottiusculus schmidti			
Cottiusculus gonez			
Bero elegans			
Alcichthys elongatus			
Gymnocanthus herzensteini			
Gymnocanthus intermedius			
Gymnocanthus detrisus			
Cottidae gen. sp.			
Hemitripteridae			
Hemitripterus villosus			
Nautichthys pribilovius			
Blepsias cirrhosus			
Blepsias bilobus			
Agonidae			
Percis japonicus			
Hypsagonus corniger			
Hypsagonus proboscidalis			
Hypsagonus jordani			
Tilesina gibbosa			
Occella dodecaedron			
Occella iburia			
Brachyopsis rostratua			
Pallasina barbata			
Podothecus sachi			
Podothecus sturioides			
Podothecus hamlini			
Freemanichthys thompsoni			
Bothragonus occidentalis			
Psychrolutidae			
Malacocottus zonurus			
Dasycottus setiger			

 $^{^{**}}$ Red List categories of IUCN, details are given on the last page *** Red List Categories of $\,$ Japanese Ministry of the Environment, details are given on the last page
**** Data Book Categories of Japanese Fisheries Agency, details are given on the last page

Scientific name	IUCN RL**	MoE RL***	FA DB****
Eurymen gyrinus	TOUTHE	WIGE ILE	THE
Cyclopteridae			
Eumicrotremus taranetzi			
Eumicrotremus pacificus			
Aptocyclus ventricosus			
Liparidae			
Liparis miostomus			
Liparis ochotensis			
Liparis agassizii			
Liparis latifrons			
Crystallichthys matsushimae			
Squaloliparis dentatus			
Careproctus macrodiscus			
Careproctus furcellus			
Careproctus cypselurus			
Careproctus cyclocephalus			
Careproctus rastrinus			
Careproctus colletti			
Careproctus roseofuscus			
Careproctus mederi			
Careproctus parvidiscus			
Careproctus sp.			
Paraliparis grandis			
PERCIFORMES			
Priacanthidae			
Cookeolus japonicus			
Pomatomidae			
Scombrops boops			
Echeneidae			
Echeneis naucrates			
Coryphaenidae			
Coryphaena hippurus			
Carangidae			
Trachurus japonicus			
Seriola quinqueradiata			
Seriola lalandi			
Alectis ciliaris			
Naucrates ductor			
Emmelichthyidae			
Erythrocles schlegelii			
Lobotidae			
Lobotes surinamensis			
Oplegnathidae			
Oplegnathus fasciatus			
Oplegnathus punctatus			
Cichlidae			
Oreochromis niloticus			
Embiotocidae			
Ditrema temmincki			
Bathymasteridae			
Bathymaster derjugini			
Zoarcidae			
Neozoarces steindachneri			
Zoarces elongatus			
Petroschmidtia albonotata			
Lycenchelys albomaculata			
		1	
Lycodes soldatovi			
Lycodes soldatovi Bothrocara molle			

 $^{^{**}}$ Red List categories of IUCN, details are given on the last page *** Red List Categories of $\,$ Japanese Ministry of the Environment, details are given on the last page
**** Data Book Categories of Japanese Fisheries Agency, details are given on the last page

Scientific name	IUCN RL**	MoE RL***	FA DB****
Bothrocarina microcephala			
Stichaeidae			
Chirolophis japonicus			
Soldatovia polyactocephala			
Opisthocentrus ocellatus			
Pholidapus dybowskii			
Lumpenopsis pavlenkoi			
Ernogrammus hexagrammus			
Stichaeopsis nana			
Stichaeus grigorjewi			
Stichaeus nozawai			
Stichaeus fuscus			
Lumpenella longirostris			
Acantholumpenus mackayi			
Lumpenus sagitta			
Leptostichaeus pumilus			
Pholidae			
Rhodymenichthys dolichogaster			
Pholis picta			
Pholis fasciata			
Pholis crassispina			
Anarhichadidae			
Anarhichas orientalis			
Zaproridae			
Zaprora silenus			
Trichodontidae			
Arctoscopus japonicus			DT
Ammodytidae			
Ammodytes personatus			
Gobiidae			
Gymnogobius urotaenia			
Gymnogobius petshiliensis			
Acanthogobius lactipes			
Luciogobius guttatus			
Gymnogobius castaneus			
Trichiuridae			
Trichiurus japonicus			
Scombridae			
Scomber japonicus			
Auxis rochei			
Thunnus thynnus			
Katsuwonus pelamis			
Xiphiidae			
Istiophorus platypterus			
Centrolophidae			
Hyperoglyphe japonica			
Psenopsis anomala			
EURONECTIFORMES			
Pleuronectidae			
Atheresthes evermanni			
Reinhardtius hippoglossoides			
Hippoglossus stenolepis			D
Acanthopsetta nadeshnyi			
Hippoglossoides pinetorum			D
Hippoglossoides dubius			
Verasper moseri			R
Pleuronectes mochigarei			IX.
Pleuronectes mocnigarei Pleuronectes punctatissimus			
	1	1	1

 $^{^{**}}$ Red List categories of IUCN, details are given on the last page *** Red List Categories of $\,$ Japanese Ministry of the Environment, details are given on the last page
**** Data Book Categories of Japanese Fisheries Agency, details are given on the last page

Scientific name	IUCN RL**	MoE RL***	FA DB****
Pleuronectes herzensteinii			
Pleuronectes schrenki			
Pleuronectes obscurus			
Pleuronectes quadrituberculatus			
Platichthys stellatus			
Kareius bicoloratus			
Clidoderma asperrimum			
Glyptocephalus stelleri			
FRAODONTIFORMES			
Monacanthidae			
Thamnaconus modestus			
Tetraodontidae			
Takifugu porphyreus			
Takifugu xanthopterus			
Diodontidae			
Diodon holocanthus			
Molidae			
Mola mola			

Shiretoko Museum (2003) Fishes of Shiretoko. Shari town and Shari-town Board of Education (in Japanese).

 $^{^{**}}$ Red List categories of IUCN, details are given on the last page *** Red List Categories of Japanese Ministry of the Environment, details are given on the last page
**** Data Book Categories of Japanese Fisheries Agency, details are given on the last page

**** FAD

The Categories

**Categories of IUCN Red List

	s of IUCN Red List
EX	EXTINCT: A taxon is Extinct when there is no reasonable doubt that the last individual has died. A taxon is presumed Extinct when exhaustive surveys in known and/or expected habitat, at appropriate times (diurnal, seasonal, annual), throughout its historic range have failed to record an individual. Surveys should be over a time frame appropriate to the taxon's life cycle and life form.
EW	EXTINCT IN THE WILD: A taxon is Extinct in the Wild when it is known only to survive in cultivation, in captivity or as a naturalized population (or populations) well outside the past range. A taxon is presumed Extinct in the Wild when exhaustive surveys in known and/or expected habitat, at appropriate times (diurnal, seasonal, annual), throughout its historic range have failed to record an individual. Surveys should be over a time frame appropriate to the taxon's life cycle and life form.
CR	CRITICALLY ENDANGERED: A taxon is Critically Endangered when the best available evidence indicates that it meets any of the criteria A to E for Critically Endangered, and it is therefore considered to be facing an extremely high risk of extinction in the wild.
EN	ENDANGERED: A taxon is Endangered when the best available evidence indicates that it meets any of the criteria A to E for Endangered, and it is therefore considered to be facing a very high risk of extinction in the wild.
VU	VULNERABLE: A taxon is Vulnerable when the best available evidence indicates that it meets any of the criteria A to E for Vulnerable, and it is therefore considered to be facing a high risk of
NT	NEAR THREATENED: A taxon is Near Threatened when it has been evaluated against the criteria but does not qualify for Critically Endangered, Endangered or Vulnerable now, but is close to qualifying for or is likely to qualify for a threatened category in the near future.
	LOWER RISK: A taxon is Lower Risk when it has been evaluated, does not satisfy the criteria for any of the categories Critically Endangered, Endangered or Vulnerable. Taxa included in the Lower Risk category can be separated into three subcategories:
LR/cd	Conservation Dependent. Taxa which are the focus of a continuing taxon-specific or habitat-specific conservation programme targeted towards the taxon in question, the cessation of which would result in the taxon qualifying for one of the threatened categories above within a period of five years.
LR/nt	Near Threatened. Taxa which do not qualify for Conservation Dependent, but which are close to qualifying for Vulnerable.
LR/lc	Least Concern. Taxa which do not qualify for Conservation Dependent or Near Threatened.

***Categories of Red Data Book published by Environment Agency of Japan

EX	Extinct: A taxon is considered extinct in Japan.
EW	Extinct in the wild: A taxon known only to survive in cultivation or in captivity.
CR	Threatened IA: Critically Endangered. A taxon is facing an extremely high risk of extinction in the wild immediate future.
EN	Threatened IB: Endangered. A taxon is not Critically Endangered but is facing a very high risk of extinction in the wild in the near future.
VU	Threatened II: Vulnerable. A taxon believed likely to move into the upper rank in near future if the casual factors continue operating.
NT	Near threatened: A taxon which are close to qualifying for vulnerable.

**** Date Book Categories of Japanese Fisheries Agency

EN	Endengered: A taxon considered to be facing a very high risk of extinction.
VU	Vulnerable: A taxon considered to be facing a high risk of extinction.
R	Rare: A taxon that is vulnerable in terms of its base for survival.
	It is transferred to the next category depending on environmental conditions.
	a. Low population density and scarce
	b. Very limited habitat
	c. Isolated distribution biogeographically
	d. Special environmental conditions required in all or part of the life cycle
	Judging from the change in habitat, the survival of the species becomes threatened. a. Decline in population
	b. Worsening living conditions
	c. Under threat of over-capture or collection pressure
	d. Intrusion of crossable species or subspecies
D	Decreasing: A taxon that is evidently declining in population. It is difficult to recover to the
D	population in the past because of changes to living conditions, or of continuous collection pressure.
DT	Decreasing Tendency: A taxon considered to be on the decrease in population on a long-termbasis. The long-term variation seen from the fishery statistics and other documents clearly backs the trend of gradual decline.
TD	Tenporal Decreasing: A taxon considered to be within the range of natural fluctuations. Recovery is possible.

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The IUCN Red List of Threatened Species: http://www.iucn.org/themes/ssc/red-lists.htm