

Caddisflies (Trichoptera) of the Kuril Archipelago

Noboru Minakawa^{1§}, Tatyana I. Arefina², Tomiko Ito³, Takao Nozaki⁴, Naotoshi Kuhara⁵, Hiroyuki Nishimoto⁶, Makoto Uenishi⁷, Valentina A. Teslenko², Daniel J. Bennett⁸, Robert I. Gara⁹, Kemper L. Kurowski¹⁰, Pontus B. H. Oberg¹⁰, Todd I. Ritchie¹¹ and Lucie J. Weis⁹

¹ Department of Medicine, Saga University, Saga, Japan; ² The Institute of Biology and Soil Sciences, Russian Academy of Science, Vladivostok, Russia; ³ Hokkaido Fish Hatchery, Eniwa, Hokkaido, Japan; ⁴ Kanagawa Environmental Research Center, Hiratsuka, Kanagawa, Japan; ⁵ Chitose Board of Education, Chitose, Hokkaido, Japan; ⁶ 1-71-1 Higarigaoka, Komaki, Aichi, Japan; ⁷ Kowata, Okurayama 39-770, Uji, Kyoto, Japan; ⁸ Department of Ecology and Evolutionary Biology, University of Kansas, Lawrence, Kansas, USA; ⁹ College of Forest Resources, University of Washington, Seattle, Washington, USA; ¹⁰ Department of Zoology, University of Washington, Seattle Washington, USA; ¹¹ School of Aquatic and Fishery Sciences, University of Washington, Seattle, Washington, USA.

Abstract We report the complete data of the caddisfly specimens collected during the seven annual expeditions of the International Kuril Island Project, and provide a list of caddisfly species known from the Kuril Islands. Caddisflies were collected from 21 out of 30 major islands, and collected from 14 islands for the first time. A total of 19 families, 45 genera and 98 species were collected during the expeditions, including 28 new species distribution records for the archipelago. These records bring the present total numbers to 20 families, 50 genera and 123 species. *Glossosoma inops* is placed in the junior subjective synonym of *G. ussuricum*.

Introduction

The caddisfly fauna of the Kuril Islands was first reported for Shumshu, Paramushir and Iturup in 1930's (Uéno 1933; Miyadi 1933, 1937). These reports were limited to immature stages, and species level identification was not available except for *Praecosmoecus kamtshaticus* Martynov (present name: *Ecclisomyia kamtshatica*) collected from Shumshu (Schmid 1949). For adult caddisflies, Kuwayama (1936) reported eight species from Shumshu, Paramushir, Urup, Iturup and Kunashir. Later Tsuda (1939, 1942) added four species from Shumshu, Paramushir and Kunashir.

In the 1950's and 1960's, Schmid (1952, 1953, 1955, 1964, 1965) and Kuwayama (1967a, 1967b, 1973) added considerably to the knowledge of the Kuril caddisfly fauna. In the 1970's and 1980's, Russian scientists actively studied the caddisflies of the Kuril Islands (Levanidova and Schmid 1977; Levanidova 1979, 1980, 1982, 1986, 1989; Vshivkova 1986; Botosaneanu 1988; Botosaneanu and Levanidova 1988; Arefina *et al.* 2003). Since the collapse of the Soviet Union, Russian and Japanese scientists have collaborated closely in studying caddisfly specimens from the Kurils (Ito *et al.* 1992; Vshivkova *et al.* 1994; Levanidova *et al.* 1995; Kuranishi 2000).

Despite the long history of research in the Kuril Islands, the caddisfly fauna of the central Kurils has not been reported except for Simushir. This is mainly due to the remoteness of the islands. During the International Kuril Island Project (IKIP; 1994–2000), American, Japanese and Russian scientists surveyed 30 islands including eight central islands (Pietsch *et al.* 2001). Including new data from the earlier IKIP expeditions, over 100 caddisfly species were recorded from the Kuril Islands (Arefina 1997a, 1997b, 1997c, 1997d, 1997e, 1997f, 1997g; Arefina and Levanidova 1997; Ito 1997; Levanidova and Arefina 1997a, 1997b; Nimmo *et al.* 1997; Arefina *et al.* 1999; Arefina 2001). In this paper, we report the complete data of the caddisfly specimens collected during the seven annual expeditions of IKIP, and provide a list of caddisfly species known from the Kuril Islands.

Methods

Sweep nets and canvas beating sheets were mostly used for collecting adult caddisflies during the expeditions. Canvas beating sheets were effective in small streams on the central and northern islands when the air temperature was low. Although the beating sheets became wet and heavy on rainy or foggy days, they were still more effective than sweep nets. On sunny days, however, adult caddisflies became too active to capture on beating sheets, and then sweep nets became a better collecting method. In swamps with short grass, sweep

§ Correspondence: Noboru Minakawa
Mailing Address: Department of Medicine, Saga University,
Saga, Japan
E-mail: minakawa@post.saga-med.ac.jp

nets were used. Sweeping was also used for tree branches along streams on the southern islands where air temperature was higher. Light traps and Malaise traps were used when the collectors were able to return to the traps next day. Caddisfly larvae were collected by kick nets and dip nets. Some newly emerged caddisflies were collected by turning rocks in water.

Collected caddisflies were immediately preserved in 80% ethanol in the field. Collections were identified by T. I. Arefina, T. Ito, V. D. Ivanov, N. Kuhara, I. M. Levanidova, H. Nishimoto, T. Nozaki and M. Uenishi. The caddisfly materials were deposited in the Institute of Biology and Soil Sciences, Russian Academy of Sciences, Far Eastern Branch, Vladivostok, Russia, the California Academy of Sciences, San Francisco, California, USA and Clemson University, Clemson, South Carolina, USA.

Results

Species record

Caddisflies were collected from 21 out of 30 major islands, and collected from 14 islands for the first time (Table 1). A total of 19 families, 45 genera and 98 species were collected during the expeditions, including 28 newly recorded species (including three undescribed species) for the archipelago (Arefina 1997a; Arefina *et al.* 1999). These records bring the present total numbers to 20 families, 50 genera and 123 species.

Following is a list of the caddisflies recorded from the Kuril Islands. Genera and species with an asterisk (*) are those whose presence on the Kuril Islands was verified by our collections; Kuril Island occurrences for the remaining taxa are based on a survey of the available scientific literature. An island name with an asterisk (*) indicates that the caddisfly species was recorded from the island for the first time. Taxa with two asterisks (**) were recorded from the Kuril Island for the first time.

1. FAMILY RHYACOPHILIDAE STEPHENS, 1836

(1) Genus *Rhyacophila* Pictet, 1834*

1. *Rhyacophila arefini* Lukyanchenko, 1993*; Iturup, Kunashir, Shikotan (Kuwayama 1967a; Vshivkova *et al.* 1994).

IKIP records: Urup*, Iturup, Kunashir, Shikotan (Arefina 2001).

2. *Rhyacophila brevicephala* Iwata, 1927*; Kunashir (Levanidova 1980).

IKIP record: Iturup*, Kunashir, Shikotan* (Arefina 2001).

3. *Rhyacophila coreana* Tsuda, 1940; Iturup (Levanidova 1986).

Remarks: Levanidova (1986) recorded this species without precise data.

4. *Rhyacophila hokkaidensis* Iwata, 1927*; Urup, Iturup, Kunashir (Kuwayama 1967a; Levanidova 1986; Vshivkova *et al.* 1994; Arefina 1997b).

IKIP records: Simushir*, Urup, Iturup, Kunashir, Shikotan*, Zeliomyi* (Arefina 1997b; Arefina 2001).

5. *Rhyacophila kawamurae* Tsuda, 1940*; Kunashir (Vshivkova *et al.* 1994).

IKIP records: Iturup*, Kunashir (Arefina 2001).

6. *Rhyacophila lata* Martynov, 1918; southern Kurils (Levanidova 1980).

7. *Rhyacophila mirabilis* Levanidova and Schmid, 1977*; Urup, Iturup, Kunashir (Levanidova and Schmid 1977; Vshivkova *et al.* 1994).

IKIP records: Ketoi*, Simushir*, Urup, Iturup, Kunashir (Arefina 2001).

8. *Rhyacophila nipponica* Navás, 1933*; Kunashir (Vshivkova *et al.* 1994).

IKIP records: Kunashir, Shikotan*, Zeliomyi* (Arefina 1997b; Arefina 2001).

9. *Rhyacophila retracta* Martynov, 1914*; Iturup, Kunashir (Levanidova 1986; Vshivkova *et al.* 1994).

IKIP records: Urup*, Iturup, Kunashir.

10. *Rhyacophila transquilla* Tsuda, 1940*; Kunashir (Levanidova 1986).

IKIP records: Kunashir.

2. FAMILY HYDROBIOSIDAE ULMER, 1905

(2) Genus *Apsilochorema* Ulmer, 1907*

11. *Apsilochorema sutshanum* Martynov, 1934*; Iturup (Levanidova 1986).

IKIP records: Iturup, Kunashir*, Shikotan* (Levanidova and Arefina 1997a).

3. FAMILY GLOSSOSOMATIDAE WALLENGREN, 1891

(3) Genus *Agapetus* Curtis, 1834

12. *Agapetus inaequispinosus* Schmid, 1970; Kunashir (Levanidova 1989; Vshivkova *et al.* 1994).

(4) Genus *Anagapetus* Ross, 1938*

13. *Anagapetus schmidi* (Levanidova, 1979)*; Kunashir (Levanidova 1989).

IKIP records: Ketoi*, Simushir*, Urup*, Iturup*, Kunashir, Shikotan* (Arefina and Levanidova 1997).

(5) Genus *Glossosoma* Curtis, 1834*

14. *Glossosoma altaicum* (Martynov, 1914); Kunashir, (Levanidova 1989; Vshivkova *et al.* 1994).

15. *Glossosoma dulkejtii* (Martynov, 1934)*; Iturup, Kunashir (Vshivkova 1986).

IKIP records: Iturup, Kunashir, Shikotan* (Arefina and Levanidova 1997).

16. *Glossosoma intermedium* (Klapálek, 1892)*; Paramushir (Kuranishi 2000).

IKIP records: Shumshu*, Paramushir.

17. *Glossosoma ussuricum* (Martynov, 1934)*; Iturup, Kunashir (Vshivkova 1986; Vshivkova *et al.* 1994).

IKIP records: Simushir*, Urup*, Iturup, Kunashir, Shikotan* (Arefina and Levanidova 1997).

See also "synonymic note" (p. 56).

Table 1. Numbers of caddisfly species recorded from the Kuril Islands.

Island	Previous records	New records	Total	IKIP records
Kuril Islands	95	28	123	98
Northern Group:				
Atlasova	0	4	4	4
Shumshu	16	11	27	19
Paramushir	24	8	32	26
Antsiferova	0	0	0	0
Makanrushi	0	5	5	5
Onekotan	0	9	9	9
Kharimkotan	0	7	7	7
Chirinkotan	0	0	0	0
Ekarma	0	2	2	2
Shiashkotan	0	8	8	8
Central Group:				
Lovushki	0	0	0	0
Raikoke	0	0	0	0
Matua	0	4	4	4
Rasshua	0	8	8	8
Ryponkicha	0	0	0	0
Yankicha	0	0	0	0
Ketoi	0	14	14	14
Simushir	5	11	16	15
Southern Group:				
Broutona	0	0	0	0
Chirpoi	0	0	0	0
Brat Chirpoev	0	0	0	0
Urup	14	19	33	32
Iturup	34	26	60	53
Kunashir	66	21	87	59
Shikotan	11	23	34	29
Habomai Group:				
Polonskogo	0	2	2	2
Zelionyi	0	10	10	10
Iurii	0	1	1	1
Anuchina	0	1	1	1
Tanfil'yeva	0	9	9	9

The genus *Glossosoma* was also recorded from Ketoi* for the first time (Appendix I).

4. FAMILY HYDROPTILIDAE STEPHENS, 1836

(6) Genus *Hydroptila* Dalman, 1819^{*/**}

18. *Hydroptila* sp.^{*/**}

IKIP records: Iturup*, Polonskogo*.

(7) Genus *Orthotrichia* Eaton, 1873^{*/**}

19. *Orthotrichia* sp.^{*/**}

IKIP records: Zelionyi* (Arefina *et al.* 1999).

(8) Genus *Palaeagapetus* Ulmer, 1912^{*/**}

20. *Palaeagapetus flexus* Ito, 1991^{*/**}

IKIP records: Iturup* (Arefina 1997c).

The genus *Palaeagapetus* was also recorded from Urup* for the first time (Appendix I).

(9) Genus *Stactobia* McLachlan, 1880

21. *Stactobia makartschenkoi* Botosaneanu and Levanidova, 1988; Kunashir (Botosaneanu and Levanidova 1988).

5. FAMILY PHILOPOTAMIDAE STEPHENS, 1829

(10) Genus *Dolophilodes* Ulmer, 1909*

22. *Dolophilodes (Dolophilodes) japonicus* (Banks, 1906)*; Kunashir (Levanidova 1982; Vshivkova *et al.* 1994).

IKIP records: Kunashir.

23. *Dolophilodes (Dolophilodes) kunashirensis* Ivanov, 1996*; Kunashir (Arefina *et al.* 1996).

IKIP records: Paramushir*.

24. *Dolophilodes (Dolophilodes) nomugiensis* (Kobayashi 1980)*; Kunashir (Vshivkova *et al.* 1994).

IKIP records: Shumshu*, Kharimkotan*.

Simushir*, Urup*, Iturup*.

The genus *Dolophilodes* was also recorded from Ketoi* and Shiashkotan* for the first time (Appendix I).

- (11) Genus *Kisaura* Ross, 1956*
25. *Kisaura borealis* (Kuhara, 1999)^{*/**}
IKIP records: Kunashir*.
26. *Kisaura hattorii* (Kuhara, 1999)^{*/**}
IKIP records: Iturup*, Kunashir*, Shikotan*.
27. *Kisaura tsudai* (Botosaneanu, 1970); Kunashir (Ivanov, 1997).
Remarks: Arefina et al. (1999) misidentified *K. hattorii* as *K. tsudai*.
28. *Kisaura* sp.^{*/**}
IKIP records: Kunashir*.
Remarks: This species was different from any other species. N. Kuhara and T. I. Arefina will describe this as a new species.

- (12) Genus *Wormaldia* McLachlan, 1865*
29. *Wormaldia* sp.^{*/**}
IKIP records: Kunashir* (Arefina et al. 1999).

6. FAMILY STENOPSYCHIDAE MARTYNOV, 1924

- (13) Genus *Stenopsyche* McLachlan, 1866*
30. *Stenopsyche marmorata* Navás, 1920*; Iturup, Kunashir (Kuwayama 1967a).
IKIP records: Iturup, Kunashir, Shikotan*.

7. FAMILY HYDROPSYCHIDAE CURTIS, 1835

- (14) Genus *Cheumatopsyche* Wallengren, 1891*
31. *Cheumatopsyche infascia* Martynov, 1934^{*/**}
IKIP records: Paramushir*, Kunashir* (Arefina et al. 1999).
Schmid (1965) also recorded a female of this genus from Iturup.

- (15) Genus *Hydropsyche* Pictet, 1834*
32. *Hydropsyche albicephala* Tanida, 1986^{*/**}
IKIP records: Kunashir* (Arefina et al. 1999).
33. *Hydropsyche orientalis* Martynov, 1934*; Kunashir (Vshivkova et al. 1994).
IKIP records: Iturup*, Kunashir.

8. FAMILY ARCTOPSYCHIDAE MARTYNOV, 1924

- (16) Genus *Parapsyche* Betten, 1934*
34. *Parapsyche shikotsuensis* (Iwata, 1927)*; Kunashir (Vshivkova et al. 1994).
IKIP records: Kunashir.

9. FAMILY PSYCHOMYIIDAE CURTIS, 1835^{**}

- (17) Genus *Lype* McLachlan, 1879^{*/**}
35. *Lype excisa* Mey, 1991^{*/**}
IKIP records: Iturup*, Kunashir* (Arefina et al.

1999).

10. FAMILY POLYCENTROPODIDAE ULMER, 1903

- (18) Genus *Plectrocnemia* Stephens, 1836
36. *Plectrocnemia levanidovae* Vshivkova et al., 2003; Kunashir (Vshivkova et al. 1994; Arefina et al. 2003).

11. FAMILY ECNOMIDAE ULMER, 1903

- (19) Genus *Ecnomus* McLachlan, 1864*
37. *Ecnomus tenellus* (Rambur, 1842)*; Kunashir (Vshivkova et al. 1994).
IKIP records: Iturup*, Kunashir.

12. FAMILY PHRYGANEIDAE LEACH, 1815

- (20) Genus *Agrypnia* Curtis, 1835*
38. *Agrypnia acristata* Wiggins, 1998*; Kunashir (Kuwayama 1967a; Wiggins 1998).
IKIP records: Iturup*.
Remarks: *Agrypnia ulmeri* by Kuwayama (1967a, 1973) is likely misidentification of this species.
39. *Agrypnia czerskyi* (Martynov, 1924)^{*/**}
IKIP records: Iturup*.
40. *Agrypnia picta* Kolenati, 1848*; Urup, Paramushir (Schmid 1965; Kuranishi 2000).
IKIP records: Shumshu*, Paramushir, Shiashkotan*, Rasshua*, Iturup*.
41. *Agrypnia sahlbergi* (McLachlan, 1880)*; Paramushir (Vshivkova et al. 1994).
IKIP records: Shumshu*, Paramushir.
42. *Agrypnia sordida* (McLachlan, 1871)*; Iturup (Vshivkova et al. 1994; Wiggins 1998).
IKIP records: Urup*, Iturup, Kunashir* (Arefina 1997d).

- (21) Genus *Eubasilissa* Martynov, 1930*
43. *Eubasilissa regina* (McLachlan, 1871)*; Kunashir (Schmid 1965).
IKIP records: Kunashir.

- (22) Genus *Hagenella* Martynov, 1924*
44. *Hagenella apicalis* (Matsumura, 1904)*; Kunashir (Schmid 1965).
IKIP records: Kunashir, Polonskogo*.
45. *Hagenella sibirica* (Martynov, 1909)*; Shumshu, Paramushir (Kuwayama 1973; Kuranishi 2000).
IKIP records: Paramushir.

- (23) Genus *Oligotricha* Rambur, 1842*
46. *Oligotricha hybridoides* Wiggins and Kuwayama, 1971; Kunashir (Vshivkova et al. 1994).
47. *Oligotricha lapponica* (Hagen, 1864)^{*/**}
IKIP records: Paramushir*, Onekotan* (Arefina et al. 1999).

The genus *Oligotricha* was also recorded from Urup*

and Shumshu* for the first time (Appendix I).

(24) Genus *Phryganea* Linnaeus, 1758

48. *Phryganea (Colpomera) japonica* (McLachlan, 1866); Kunashir (Schmid 1965).

(25) Genus *Semblis* Fabricius, 1775

49. *Semblis melaleuca* (McLachlan, 1871); Iturup, Kunashir (Schmid 1965; Kuwayama 1967a; Vshivkova *et al.* 1994; Wiggins 1998).

13. FAMILY BRACHYCENTRIDAE ULMER, 1903

(26) Genus *Brachycentrus* Curtis, 1834*

50. *Brachycentrus americanus* (Banks, 1899)**

IKIP records: Kunashir* (Arefina *et al.* 1999).

51. *Brachycentrus* sp.*

IKIP records: Shumshu.

Remarks: This species is not *B. americanus*. See also Uéno (1933).

(27) Genus *Micrasema* McLachlan, 1876*

52. *Micrasema hanasensis* Tsuda, 1942***

IKIP records: Ketoi*, Urup*, Iturup*, Kunashir*.

53. *Micrasema (gelidum) kurilicum* Botosaneanu, 1988; Kunashir (Botosaneanu 1988).

The genus *Micrasema* was also recorded from Simushir* for the first time (Appendix I).

14. FAMILY LIMNEPHILIDAE KOLENATI, 1848

(28) Genus *Asynarchus* McLachlan, 1880*

54. *Asynarchus sachalinensis* Martynov, 1914*; Iturup, Kunashir (Kuwayama 1967a; Vshivkova *et al.* 1994).

IKIP records: Urup*, Iturup, Shikotan*.

(29) Genus *Dicosmoecus* McLachlan, 1875*

55. *Dicosmoecus jozankeanus* (Matsumura, 1931)*; Iturup, Shikotan (Kuwayama 1967a; Nagayasu and Ito 1993).

IKIP records: Urup*, Iturup, Kunashir*, Shikotan (Nimmo *et al.*, 1997).

(30) Genus *Ecclisocosmoecus* Schmid, 1964***

56. *Ecclisocosmoecus spinosus* Schmid, 1964***

IKIP records: Urup*, Iturup*, Kunashir*, Shikotan*, Tanfilyeva*.

(31) Genus *Ecclisomyia* Banks, 1907*

57. *Ecclisomyia kamtshatica* (Martynov, 1913)*; Shumshu (recorded as Simushir), Paramushir (Uéno 1933).

IKIP records: Shumshu, Paramushir, Ketoi*, Simushir*, Urup*, Iturup* (Nimmo *et al.* 1997).

(32) Genus *Grammotaulius* Kolentai, 1848*

58. *Grammotaulius inornatus* Schmid, 1964*; Paramushir (Kuwayama 1936; Vshivkova *et al.* 1994).

IKIP records: Paramushir.

59. *Grammotaulius signatipennis* McLachlan, 1876*; Paramushir (Kuranishi 2000).

IKIP records: Shumshu*, Paramushir, Onekotan*.

(33) Genus *Halesus* Stephens, 1836*

60. *Halesus sachalinensis* Martynov, 1914*; Urup, Iturup, Kunashir (Schmid 1965; Vshivkova *et al.* 1994).

IKIP records: Urup, Iturup, Kunashir, Shikotan*.

(34) Genus *Hydatophylax* Wallengren, 1891*

61. *Hydatophylax festivus* (Navás, 1920)*; Urup, Iturup, Kunashir, Shikotan (Vshivkova *et al.* 1994; Nozaki, 1999).

IKIP records: Urup, Iturup, Kunashir, Shikotan, Zelionyi*.

62. *Hydatophylax magnus* (Martynov, 1914); Iturup (Vshivkova *et al.* 1994).

63. *Hydatophylax variabilis* (Martynov, 1910)*; Kunashir (Vshivkova *et al.* 1994).

IKIP records: Kunashir, Shikotan*.

64. *Hydatophylax* sp.**

IKIP records: Ketoi*, Simushir*, Urup*, Iturup*, Kunashir*, Shikotan* (Arefina *et al.* 1999).

Remarks: Arefina *et al.* (1999) reported this species as *H. soldatovi*, however we confirmed that this is different from any other species after careful reexamination. T. Nozaki and N. Minakawa will describe this as a new species.

The genus *Hydatophylax* was also recorded from Paramushir* for the first time (Appendix I).

(35) Genus *Lenarchus* Martynov, 1914*

65. *Lenarchus fuscostramineus* Schmid, 1952*; Iturup, Kunashir (Schmid 1965).

IKIP records: Urup*, Iturup, Shikotan*, Tanfilyeva*.

(36) Genus *Limnephilus* Leach, 1815*

66. *Limnephilus alienus* Martynov, 1914*; Shumshu, Simushir, Urup, Iturup, Kunashir (Schmid 1965; Vshivkova *et al.* 1994).

IKIP records: Shumshu, Onekotan*, Shiashkotan*, Rasshua*, Urup, Iturup, Kunashir.

67. *Limnephilus diphyes* McLachlan, 1880; Shumshu, Paramushir (Kuranishi 2000).

68. *Limnephilus elegans* Curtis, 1834*; Shumshu, Paramushir (Vshivkova *et al.* 1994; Kuranishi 2000).

IKIP records: Paramushir.

69. *Limnephilus femoralis* Kirby, 1837*; Shumshu, Paramushir (Vshivkova *et al.* 1994; Kuranishi 2000).

IKIP records: Shumshu, Paramushir.

70. *Limnephilus femoratus* Zetterstedt, 1840***

IKIP records: Iturup* (Arefina *et al.* 1999).

Remarks: The previous record of this species from Paramushir was an error (Arefina *et al.* 1999).

71. *Limnephilus fenestratus* (Zetterstedt, 1840)*; Paramushir (Vshivkova *et al.* 1994).

IKIP records: Shumshu*, Paramushir.

72. *Limnephilus fuscovittatus* Matsumura, 1904*; Shumshu, Paramushir, Simushir, Urup, Iturup, Kunashir, Shikotan (Schmid 1965; Kuwayama 1967a; Vshivkova *et al.* 1994).
IKIP records: Shumshu, Atlasova*, Paramushir, Onekotan*, Kharimkotan*, Matua*, Rasshua*, Ketoi*, Simushir, Urup, Iturup, Kunashir, Shikotan, Tanfilyeva*.
73. *Limnephilus incisus* Curtis, 1834***
IKIP records: Paramushir* (Arefina *et al.* 1999).
74. *Limnephilus major* (Martynov, 1909)*; Paramushir (Vshivkova *et al.* 1994).
IKIP records: Shumshu*.
75. *Limnephilus nigriceps* (Zetterstedt, 1840)**
IKIP records: Paramushir*.
76. *Limnephilus nipponicus* Schmid, 1964*; Simushir, Urup, Iturup, Kunashir (Schmid 1965; Kuwayama 1967a; Vshivkova *et al.* 1994).
IKIP records: Ketoi*, Simushir, Urup, Iturup, Kunashir, Shikotan*.
77. *Limnephilus orientalis* Martynov, 1935*; Urup, Iturup, Kunashir, Shikotan (Schmid 1965; Kuwayama 1967a; Vshivkova *et al.* 1994).
IKIP records: Urup, Iturup, Kunashir.
78. *Limnephilus ornatulus* Schmid, 1965*; Iturup, Kunashir (Schmid 1965; Kuwayama 1967a; Vshivkova *et al.* 1994).
IKIP records: Kunashir.
79. *Limnephilus picturatus* McLachlan, 1875*; Shumshu, Paramushir (Tsuda 1942; Schmid 1955; Vshivkova *et al.* 1994).
IKIP records: Shumshu, Paramushir.
80. *Limnephilus quadratus* Martynov, 1914*; Kunashir (Vshivkova *et al.* 1994).
IKIP records: Kunashir, Tanfilyeva*, Iurii*.
81. *Limnephilus rhombicus* (Linnaeus, 1758)*; Paramushir, Kunashir (Konakov 1956; Vshivkova *et al.* 1994).
IKIP records: Iturup*.
82. *Limnephilus sericeus* (Say, 1824)*; Shumshu, Paramushir, Simushir, Urup, Iturup (Tsuda 1942; Schmid 1955, 1965; Kuwayama 1967a; Vshivkova *et al.* 1994).
IKIP records: Shumshu, Paramushir, Makanrushi*, Onekotan*, Kharimkotan*, Shiashkotan*, Matua*, Rasshua*, Ketoi*, Simushir, Urup, Iturup, Shikotan*.
83. *Limnephilus sparsus* Curtis, 1834*; Paramushir, Simushir, Urup, Iturup, Kunashir, Shikotan (Tsuda 1942; Schmid 1965; Kuwayama 1967a; Vshivkova *et al.* 1994).
IKIP records: Atlasova*, Shumshu, Paramushir, Makanrushi*, Onekotan*, Kharimkotan*, Shiashkotan*, Matua*, Rasshua*, Ketoi*, Simushir, Urup, Iturup, Kunashir, Shikotan, Zelionyi*, Tanfilyeva*.
84. *Limnephilus stigma* Curtis, 1834*; Paramushir, Kunashir (Kuwayama 1967a; Vshivkova *et al.* 1994).
IKIP records: Shumshu*, Paramushir, Onekotan*, Kharimkotan*, Iturup*.
85. *Limnephilus subcentralis* Brauer, 1857***
IKIP records: Iturup*.
- (37) Genus *Nemotaulius* Banks, 1906*
86. *Nemotaulius admorsus* (McLaclan, 1866); Kunashir (Kuwayama 1967a).
87. *Nemotaulius miyakei* (Nakahara, 1914)*; Iturup, Kunashir (Kuwayama 1936; Kuwayama 1967a).
IKIP records: Iturup, Kunashir.
88. *Nemotaulius mutatus* (McLachlan, 1872); Shumshu, Paramushir (Kuranishi 2000).
- (38) Genus *Nothopsyche* Banks, 1906***
89. *Nothopsyche* sp.***
IKIP records: Kunashir* (Arefina *et al.* 1999).
- (39) Genus *Onocosmoecus* Banks, 1943*
90. *Onocosmoecus unicolor* (Banks, 1897)*; Shumshu, Shikotan (Kuwayama 1936; Vshivkova *et al.* 1994).
IKIP records: Atlasova*, Shumshu, Paramushir*, Makanrushi*, Onekotan*, Kharimkotan*, Ekarma*, Shiashkotan*, Rasshua*, Ketoi*.

15. FAMILY APATANIIDAE WALLENGREN, 1886

- (40) Genus *Allomyia* Banks, 1916*
91. *Allomyia coronae* Levanidova and Arefina, 1995*; Kunashir (Levanidova *et al.* 1995).
IKIP records: Iturup*, Shikotan* (Levanidova and Arefina 1997b).
92. *Allomyia delicatula* Levanidova and Arefina, 1995*; Kunashir (Levanidova *et al.* 1995).
IKIP records: Simushir*.
- (41) Genus *Apatania* Kolenati, 1848*
93. *Apatania aberrans* (Martynov, 1933); Kunashir (Vshivkova *et al.* 1994).
94. *Apatania insularis* Levanidova, 1979; Kunashir (Levanidova 1979).
95. *Apatania parvula* (Martynov, 1935)*; Shumshu, Urup, Iturup, Kunashir, Shikotan (Schmid 1965; Kuwayama 1967a; Levanidova 1979; Vshivkova *et al.* 1994).
IKIP records: Rasshua*, Ketoi*, Simushir*, Urup, Iturup, Kunashir, Shikotan, Anuchina* (Levanidova and Arefina 1997b).
96. *Apatania sinensis* Martynov, 1914; Paramushir (Levanidova 1982).
97. *Apatania stigmatella* (Zetterstedt, 1840); Shumshu, Paramushir (Kuranishi 2000).
98. *Apatania zonella* Zetterstedt, 1840*; Shumshu, Paramushir (Vshivkova *et al.* 1994).
IKIP records: Atlasova*, Shumshu, Paramushir, Makanrushi*, Onekotan*, Kharimkotan*, Shiashkotan*, Matua*, Rasshua*, Iturup* (Levanidova and Arefina 1997b).

The genus *Apatania* was also collected from Ekarma* for the first time (Appendix I).

16. FAMILY GOERIDAE ULMER, 1903

- (42) Genus *Goera* Stephens, 1829*
99. *Goera japonica* Banks, 1906*; Urup, Iturup, Kunashir (Schmid 1965; Kuwayama 1967a; Vshivkova *et al.* 1994).
IKIP records: Urup, Iturup, Kunashir, Shikotan* (Arefina 1997e).
100. *Goera* sp.; Shikotan (Vshivkova *et al.* 1994).
Remarks: This species differs from the other species of *Goera* recorded from Russia and Japan (Vshivkova *et al.* 1994).

17. FAMILY UENOIDAE IWATA, 1927

- (43) Genus *Neophylax* McLachlan, 1871*
101. *Neophylax japonicus* Schmid, 1964**
IKIP records: Kunashir*.
102. *Neophylax ussuriensis* (Martynov, 1914)*; Urup, Iturup, Kunashir (Kuwayama 1936).
IKIP records: Urup, Iturup, Kunashir, Shikotan* (Arefina 1997f).

18. FAMILY LEPIDOSTOMATIDAE ULMER, 1903

- (44) Genus *Lepidostoma* Rambur, 1842*
103. *Lepidostoma albardanum* (Ulmer, 1906); Kunashir (Ito *et al.* 1992; Weaver 2002).
104. *Lepidostoma complicatum* (Kobayashi, 1968)*; Kunashir (Ito *et al.* 1992; Weaver 2002).
IKIP records: Iturup*, Kunashir, Shikotan*.
105. *Lepidostoma crassicorne* (Ulmer, 1907)*; Kunashir (Ito *et al.* 1992; Weaver 2002).
IKIP records: Urup*, Shikotan*.
Remarks: Vshivkova *et al.* (1994) suggested that *Neoseverinia* sp. recorded from Shikotan by Kuwayama (1967a) was this species. We confirmed that *L. crassicorne* occurs on Shikotan.
106. *Lepidostoma hiurai* (Tani, 1971)*; Iturup, Kunashir (Ito *et al.* 1992; Weaver 2002).
IKIP records: Iturup, Kunashir, Shikotan*, Zelionyi*, Tanfilyeva* (Ito 1997).
107. *Lepidostoma naraense* (Tani, 1971); Kunashir (Ito *et al.* 1992; Weaver 2002).
108. *Lepidostoma satoi* (Kobayashi, 1968); Shikotan, Kunashir (Ito *et al.* 1992; Weaver 2002).
109. *Lepidostoma stellatum* (Ito, 1984)*; Kunashir (Ito *et al.* 1992; Weaver 2002).
IKIP records: Paramushir*, Makanrushi*, Shiashkotan*, Ketoi*, Simushir*, Urup*, Iturup* (Ito and Minakawa 1995).

19. FAMILY MOLANNIDAE WALLENGREN, 1891

- (45) Genus *Molanna* Curtis, 1834*
110. *Molanna moesta* Banks, 1906*; Iturup, Kunashir, Shikotan (Kuwayama 1936; Kuwayama 1967a).
IKIP records: Urup*, Iturup, Kunashir, Zelionyi*, Tanfilyeva* (Arefina 1997g).

111. *Molanna submarginalis* McLachlan, 1872*; Paramushir (Vshivkova *et al.* 1994).
IKIP records: Paramushir.

The genus *Molanna* was also recorded from Shumshu* for the first time (Appendix I).

- (46) Genus *Molannodes* McLachlan, 1866*
112. *Molannodes itoae* Fuller and Wiggins, 1987; Kunashir (Vshivkova *et al.* 1994).
113. *Molannodes tinctus* (Zetterstedt, 1840)**
IKIP records: Shumshu*, Paramushir* (Arefina *et al.* 1999).

20. FAMILY LEPTOCERIDAE LEACH, 1815

- (47) Genus *Ceraclea* Stephens, 1829**
114. *Ceraclea alboguttata* (Hagen, 1860)**
IKIP records: Kunashir* (Arefina *et al.* 1999).
115. *Ceraclea valentinae* Arefina, 1997**
IKIP records: Zelionyi* (Arefina 1997a).
- (48) Genus *Mystacides* Berthold, 1827*
116. *Mystacides azureus* (Linnaeus, 1761)**
IKIP records: Iturup*, Kunashir* (Arefina *et al.* 1999).
117. *Mystacides pacificus* Mey, 1991*; Iturup, Kunashir (Vshivkova *et al.* 1994).
IKIP records: Urup*, Iturup, Kunashir, Zelionyi*, Tanfilyeva*.
- (49) Genus *Oecetis* McLachlan, 1877*
118. *Oecetis brachyura* Yang and Morse, 1997; Kunashir (*Oecetis* sp.: Vshivkova *et al.* 1994).
M. Uenishi examined the specimens listed as *Oecetis* sp. by Vshivkova *et al.* (1994) and confirmed that they are *O. brachyura*.
119. *Oecetis morii* Tsuda, 1942**
IKIP records: Kunashir* (Arefina *et al.* 1999).
120. *Oecetis nigropunctata* Ulmer, 1908*; Paramushir, Kunashir (Kuwayama 1967a; Kuranishi 2000).
IKIP records: Paramushir, Kunashir, Tanfilyeva*.
- (50) Genus *Triaenodes* McLachlan, 1865*
121. *Triaenodes pellectus* Ulmer, 1908**
IKIP records: Kunashir* (Arefina *et al.* 1999).
122. *Triaenodes unanimitis* McLachlan, 1877*; Iturup (Kuwayama 1967a; Vshivkova *et al.* 1997).
IKIP records: Iturup, Kunashir*, Zelionyi*.
123. *Triaenodes* sp.; Iturup, Kunashir (Vshivkova *et al.* 1994).

Distribution patterns

Caddisflies of the Kurils are roughly divided into four groups based on their distribution patterns: (1) a group of species that is distributed toward the north end of the archipelago, (2) a group of species that is distributed toward the south end, (3) a group of species that is distributed toward both ends, and (4) a group of species

distributed throughout the archipelago. Most species (87 species) are distributed toward the south end. The Philopotamidae, Phryganeidae, Limnephilidae and Apataniidae include two or more patterns of distribution. The Molannidae are distributed either toward the north end or south end.

Synonymic note

Glossosoma ussuricum was described as *Mytrophora ussurica* by Martynov (1934) from the southern Ussuri, and is widely distributed in continental Russia (Vshivkova 1986; Arefina and Levanidova 1997). On the other hand, *Glossosoma inops* was described as *M. inops* from Kyoto, Japan by Tsuda (1940), and has been commonly recorded from Japanese islands (Nozaki *et al.* 1994). During this study, we compared specimens collected from the Kurils with those from the southern Ussuri and the Japanese islands, and found that these two species are identical. Thus, we conclude that *G. inops* is a junior subjective synonym of *G. ussuricum* although we could not examine the type specimens of both species (see also footnote).

Discussion

IKIP added considerably to the knowledge of the caddisfly fauna on the Kuril Islands. The expedition recorded about 80% and added about 20% of the currently known species. Caddisflies were recorded from nearly half of the Kuril Islands for the first time. IKIP made it possible to sample caddisflies from the remote and small islands that biologists had not visited.

Species number of each island is affected by several factors, distance from the mainland, island size, age and habitat availability (MacArthur and Wilson 1967). The high species numbers on the major southern islands are likely due to their close distances to the main land (Hokkaido) and their large island sizes. This is also true for Shumshu and Paramushir which are relatively large and close to Kamchatka. The low species numbers of the central islands is likely due to the large distance from the mainland. The species that occur in the central islands must have great dispersal ability to reach the islands. The islands without caddisfly records are probably too small to provide habitats even for those with great dispersal ability.

Although the Habomai Islands are also small, a relatively rich caddisfly fauna is expected for these islands

Synonymic list of *Glossosoma ussuricum* (Martynov, 1934)

Mytrophora ussurica Martynov, 1934, 79–80.

Glossosoma ussuricum: Vshivkova, 1986, 72–74; Arefina & Levanidova, 1997, 38.

Mytrophora inops Tsuda, 1940, 193–194. **New Synonym.**

Glossosoma inops: Nozaki *et al.*, 1994, 299–300.

because of their close distance to Hokkaido and lack of volcanic activities (Kryvolutskaya 1973; Pietsch *et al.* 2001). All of the Habomai islands are flat, and numerous swamps on the islands provide suitable habitats for several caddisfly species that are adapted for lentic environments. However, the current known species numbers on the Habomai islands are low, which is due to insufficient sampling days. IKIP allotted only six sampling days for the five islands of the Habomai group, and previously no one had visited to these islands for collecting.

Higher species numbers are also expected for the larger islands. Due to lack of transportation on the islands, sampling caddisflies was mostly limited to the areas near the shore during the expedition. The collectors had to return to the research vessel for safety at the end of the day, which also prevented them from sampling far inland. By staying on the islands, collectors can cover a larger area, and operate insect traps. The light traps and Malaise traps were used a few occasions when the research vessel stayed at the same locations over night, and the results of the traps were remarkable.

The expedition was limited to the period from the end of July through August each year. Although this is the best season to collect adult caddisflies on the islands, it is reasonable to consider that several species that emerge in the other seasons were unrecorded. Their emergence period is expected to be longer than the period of the expedition, particularly, on the southern islands. Thus, the knowledge of the Kuril caddisfly fauna could be improvement. At a minimum, the distributions of the following species are expected to be corrected in future research. *Ecclisomiya kamtshatica* and *Limnephilus sericeus* are expected to occur on Kunashir, because these species were recorded from the other major southern islands and Hokkaido (Nozaki and Tanida 1996; Nozaki *et al.* 2000). Since *Lepidostoma crassicorne* occurs on Urup, Shikotan and Kunashir, this species may also occur on Iturup that lies between Urup and Kunashir. Similarly, *Micrasema hanasensis* and *Agrypnia picta* may occur on Simushir. *Limnephilus alienus* and *L. fuscovittatus* are distributed on the major islands throughout the island chain, therefore, the former species may occur on Paramushir, Matua and Shikotan, and the later species may occur on Shiashkotan.

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Appendix I: Material Examined

In the following list of material examined, the island locality is followed by IKIP number (see Appendix II) and the number of specimens (M = male adult, F = female adult, P = pupa, L = larva) in the lot.

- Rhyacophila arefini* URUP: UR-95-PO-11 (1M), UR-95-PO-18 (3M), UR-95-PO-36 (2M), UR-95-VAT-11 (1M 2F), UR-95-VAT-15 (2M), UR-95-VAT-23 (2M), UR-96-PO-60 (2M), UR-96-VAT-41 (1M 1F); ITURUP: IT-94-RG-02 (1M), IT-94-RG-11 (1M), IT-94-VAT-33 (1F), IT-94-VAT-34 (3L), IT-94-VAT-36 (1F), IT-94-VAT-37 (1L), IT-94-VAT-45 (1M), IT-94-VAT-49 (2L), IT-94-VAT-51 (1L), IT-97-TIR-05 (1M), IT-98-NM-19 (2M), IT-98-NM-24 (2M), IT-98-VAT-14 (1L), IT-98-VAT-18 (2M), IT-98-VAT-22 (1M), IT-98-VAT-23 (1L), IT-98-VAT-24 (1M), IT-98-VAT-38 (3M); KUNASHIR: KU-94-NM-21 (4 M 4F), KU-94-NM-13 (1M), KU-94-VAT-06 (2L), KU-94-VAT-11 (3M 2F), KU-98-LJW-40 (1M); SHIKOTAN: SH-98-VAT-42 (1M 1F), SH-98-VAT-50 (1L).
- Rhyacophila brevicephala* ITURUP: IT-98-LJW-31 (1M), IT-98-VAT-32 (1L); KUNASHIR: KU-95-VAT-01 (1P), KU-95-VAT-03 (4P), KU-97-NM-01 (7M), KU-97-VAT-01 (2M), KU-98-LJW-40 (3M), KU-98-VAT-01 (2M 1F), KU-98-VAT-02 (11P); SHIKOTAN: SH-98-VAT-49 (1F).
- Rhyacophila hokkaidensis* SIMUSHIR: SI-95-PO-39 (8L); URUP: UR-95-PO-10 (1F 2L 6P), UR-95-PO-15 (3L), UR-95-PO-22 (1L), UR-95-PO-34 (1L), UR-95-PO-95 (1M), UR-95-PO-96 (2M), UR-95-PO-105 (4L), UR-95-VAT-08 (2L), UR-95-VAT-09 (1M 1F 5P), UR-95-VAT-10 (3L), UR-95-VAT-13 (2L), UR-95-VAT-15 (3L), UR-95-VAT-18 (3L), UR-95-VAT-23 (3L), UR-95-VAT-66 (1M), UR-96-VAT-42 (3L); ITURUP: IT-94-RG-01 (2L), IT-94-RG-02 (10L), IT-94-RG-03 (8L), IT-94-RG-04 (6M 4F 17L 1P), IT-94-RG-05 (6L), IT-94-RG-06 (1M 15L), IT-94-RG-08 (1L), IT-94-RG-11 (1L), IT-94-RG-14 (1M 1F 49L), IT-94-RG-15 (2L), IT-94-VAT-34 (27L 5P), IT-94-VAT-35 (1F 4L 1P), IT-94-VAT-36 (1M), IT-94-VAT-37 (3L), IT-94-VAT-38 (6L), IT-94-VAT-40 (1M 1F 13L), IT-94-VAT-46 (2L), IT-94-VAT-49 (2L), IT-94-VAT-51 (23L 2P), IT-95-PO-06 (3L), IT-95-PO-07 (7L), IT-95-PO-08 (1L), IT-95-PO-120 (3M 30L), IT-95-VAT-06 (20L 1P), IT-95-VAT-68 (2L), IT-96-VAT-39 (2F), IT-97-VAT-08 (2M 4F), IT-98-LJW-23 (2L), IT-98-LJW-28 (2M 1L), IT-98-LJW-30 (1L), IT-98-LJW-35 (1L), IT-98-NM-16 (1F), IT-98-NM-37 (1L), IT-98-VAT-10 (9L), IT-98-VAT-12 (3L), IT-98-VAT-14 (3L), IT-98-VAT-22 (1M), IT-98-VAT-23 (5L 4P), IT-98-VAT-26 (2F), IT-98-VAT-27 (1L 1P), IT-98-VAT-29 (4L 2P), IT-98-VAT-31 (1M), IT-98-VAT-32 (24L), IT-98-VAT-34 (1M), IT-98-VAT-35 (4L), IT-98-VAT-36 (2L); KUNASHIR: KU-94-NM-04 (1M), KU-94-NM-05 (2L), KU-94-NM-07 (1L), KU-94-NM-10 (5L), KU-94-NM-11 (2L), KU-94-NM-13 (1M), KU-94-NM-16 (1L), KU-94-NM-17 (3L), KU-94-NM-18 (2L), KU-94-VAT-06 (5L), KU-94-VAT-07 (1M 1F), KU-94-VAT-08 (3L), KU-94-VAT-09 (4L), KU-94-VAT-10 (1M), KU-94-VAT-12 (3L), KU-94-VAT-14 (1M), KU-94-VAT-15 (2L), KU-94-VAT-16 (4L 5P), KU-94-VAT-19 (2F 5L), KU-94-VAT-20 (2M), KU-95-PO-02 (2M), KU-95-PO-128 (14M 7F), KU-95-VAT-02 (1M), KU-95-VAT-03 (1L), KU-95-VAT-71 (4F), KU-97-NM-01 (3M), KU-97-TIR-04 (3M), KU-97-VAT-01 (3F), KU-98-LJW-06 (5L), KU-98-LJW-10 (1M), KU-98-LJW-41 (2L), KU-98-VAT-01 (9M 1F), KU-98-VAT-02 (6L 6P), KU-98-VAT-06 (1M 1F 1L), KU-98-VAT-08 (4P), KU-98-TIA-65 (1M), KU-99-KLK-51 (3L), KU-99-VAT-62 (5L), KU-99-VAT-63 (1F 3L); SHIKOTAN: SH-94-RG-01 (6L), SH-94-RG-03 (2L), SH-94-VAT-29 (10L 6P), SH-94-VAT-32 (1L 1P), SH-98-LJW-46 (1M), SH-98-LJW-54 (1M), SH-98-LJW-55 (1L), SH-98-LJW-56 (3L 2P), SH-98-NM-30 (1M), SH-98-NM-33 (1L), SH-98-VAT-47 (1F), SH-98-VAT-50 (1L); ZELIONYI: ZE-94-NM-03 (14L), ZE-94-VAT-25 (1L).
- Rhyacophila kawamurae* ITURUP: IT-98-NM-06 (1M), IT-98-VAT-18 (2F), IT-98-VAT-22 (1F), IT-98-VAT-23 (2L), IT-98-VAT-38 (1F); KUNASHIR: KU-94-NM-11 (2M), KU-97-TIR-04 (1M), KU-98-LJW-01 (1M), KU-98-VAT-01 (4F).
- Rhyacophila mirabilis* KETOI: KE-95-PO-63 (2M), KE-95-PO-64 (7P 1P), KE-95-PO-74 (2M), KE-95-PO-75 (7L 6P), KE-95-PO-76 (1M), KE-95-VAT-37 (17M 5F), KE-95-VAT-38 (8L 19P), KE-95-VAT-44 (4M), KE-95-VAT-45 (15L 2P); SIMUSHIR: SI-95-PO-39 (1M 1L), SI-95-PO-43 (1M), SI-95-PO-45 (11M 8F), SI-95-PO-66 (1M), SI-95-PO-69 (2M), SI-95-PO-70 (4M), SI-95-PO-80 (5M), SI-95-PO-81 (3P), SI-95-PO-82 (2M), SI-95-VAT-24 (9M 3F), SI-95-VAT-25 (6L 8P), SI-95-VAT-26 (2M 1F 1P), SI-95-VAT-27 (3L), SI-95-VAT-29 (10L 2P), SI-95-VAT-30 (10M 1F), SI-95-VAT-40 (4M 1F), SI-95-VAT-48 (22M), SI-95-VAT-49 (5L 10P), SI-95-VAT-50 (3M 3F), SI-95-VAT-51 (2L), SI-99-KLK-41 (1L 1P), SI-99-KLK-42 (2M), SI-99-VAT-40 (1M 4L 5P); URUP: UR-95-MO-03 (3M), UR-95-MO-60 (1M), UR-95-PO-11 (1M 4L 6P), UR-95-PO-13 (1P), UR-95-PO-18 (3M 1F), UR-95-PO-19 (3L 3P), UR-95-PO-23 (4M), UR-95-PO-34 (1L 4P), UR-95-PO-89 (1M), UR-95-PO-94 (1M 2P), UR-95-PO-95 (3M 1F), UR-95-PO-96 (1L), UR-95-VAT-10 (2P), UR-95-VAT-11 (2M), UR-95-VAT-15 (2M 14L 8P), UR-95-VAT-23 (4L 9P), UR-95-VAT-53 (2L 5P), UR-95-VAT-66 (1M), UR-96-NM-22 (2M), UR-96-NM-25 (1M), UR-96-PO-62 (1M), UR-96-VAT-41 (5M 8F), UR-96-VAT-42 (4L 1P); ITURUP: IT-94-RG-02 (1M 1F 1L), IT-94-RG-04 (8M 3F 1L), IT-94-RG-09 (1M), IT-94-RG-14 (2F 5L), IT-94-VAT-33 (4M 2F), IT-94-VAT-34 (3L 1P), IT-94-VAT-36 (16M 2F), IT-94-VAT-37 (1L 4P), IT-94-VAT-45 (1M), IT-94-VAT-46 (2P), IT-94-VAT-50 (7M 1F), IT-94-VAT-51 (5L 12P), IT-95-VAT-07 (1F), IT-97-NM-06 (1M), IT-97-NM-20 (2M), IT-97-TIR-06 (1M), IT-97-VAT-06 (6M 1F), IT-97-VAT-08 (3M 3F), IT-98-DJB-69 (2M), IT-98-LJW-11 (31M 5F), IT-98-LJW-13 (1M), IT-98-LJW-15 (14M), IT-98-LJW-22 (1M), IT-98-LJW-27 (3M), IT-98-LJW-32 (7M 1F), IT-98-LJW-33 (3P), IT-98-LJW-34 (1M), IT-98-LJW-36 (5M), IT-98-NM-20 (1M), IT-98-NM-23 (6M 3F), IT-98-NM-24 (7M), IT-98-NM-37 (1P), IT-98-VAT-09 (3M 1F), IT-98-VAT-10 (1L), IT-98-VAT-11 (20M 7F), IT-98-VAT-13 (11M 1F), IT-98-VAT-18 (14M 3F), IT-98-VAT-22 (5M 3F), IT-98-VAT-23 (7P), IT-98-VAT-24 (11M), IT-98-VAT-26 (1M 1F), IT-98-VAT-27 (1P), IT-98-VAT-29 (2P), IT-98-VAT-31 (6M 1F), IT-98-VAT-32 (18L 9P), IT-98-VAT-34 (1M), IT-98-VAT-38 (4M 2F); KUNASHIR: KU-94-NM-05 (1F), KU-94-NM-10 (6M), KU-94-NM-13 (5M), KU-94-NM-21 (2M), KU-94-VAT-06 (5P), KU-94-VAT-07 (4M 10F), KU-94-VAT-11 (3M), KU-94-VAT-16 (1P), KU-94-VAT-17 (1M 1F), KU-94-VAT-20 (6M 1F), KU-95-VAT-02 (1M), KU-97-NM-03 (2M 1F), KU-97-TIR-04 (4M), KU-97-VAT-01 (1M), KU-98-LJW-01 (1M), KU-98-LJW-40 (1M), KU-98-VAT-01 (12M 5F).

Rhyacophila nipponica KUNASHIR: KU-94-NM-21 (2M), KU-95-VAT-03 (2L), KU-99-VAT-63 (1L); SHIKOTAN: SH-94-VAT-28 (1M), SH-98-LJW-56 (2M), SH-98-VAT-49 (3M), SH-98-VAT-50 (7L); ZELIONYI: ZE-94-NM-05 (2M).

Rhyacophila retracta URUP: UR-95-PO-11 (1M), UR-95-PO-13B (1M), UR-95-PO-21 (3M 5F), UR-95-PO-33 (1F), UR-95-PO-36 (1F), UR-95-PO-95 (1F), UR-95-VAT-16 (1F), UR-95-VAT-52 (1F); ITURUP: IT-98-LJW-15 (1M 1F), IT-98-VAT-38 (1M 1F); KUNASHIR: KU-94-NM-10 (1L), KU-94-VAT-06 (1L), KU-98-LJW-40 (1M).

Rhyacophila transquilla KUNASHIR: KU-94-VAT-10 (1M), KU-97-TIR-04 (1M).

Apsilochorema sutshanum ITURUP: IT-98-VAT-13 (1M 1F); KUNASHIR: KU-94-VAT-14 (2L), KU-95-VAT-03 (4L), KU-97-NM-01 (1M 1F), KU-97-NM-03 (3F), KU-97-VAT-02 (3L), KU-97-VAT-03 (1F), KU-98-VAT-01 (1M), KU-98-VAT-02 (8P); SHIKOTAN: SH-94-VAT-29 (1F), SH-98-VAT-50 (1P).

Anagapetus schmidi KETOI: KE-95-VAT-38 (16L), KE-95-VAT-45 (1L); SIMUSHIR: SI-95-VAT-25 (25L), SI-95-VAT-26 (1L), SI-95-VAT-43 (13L), SI-95-VAT-49 (4L), SI-99-VAT-40 (1L); URUP: UR-95-VAT-23 (4L), UR-95-VAT-53 (11L), UR-96-VAT-42 (7L); ITURUP: IT-94-VAT-49 (1L), IT-94-VAT-51 (1L), IT-95-VAT-04 (9L), IT-95-VAT-06 (5L), IT-98-VAT-12 (2L), IT-98-VAT-14 (4L), IT-98-VAT-23 (1L); KUNASHIR: KU-94-VAT-06 (2L), KU-94-VAT-19 (2L), KU-95-VAT-69 (5L), KU-98-VAT-02 (1L); SHIKOTAN: SH-94-VAT-29 (3L), SH-98-VAT-50 (2L).

Glossosoma dulceji ITURUP: IT-94-RG-04 (2M 3F), IT-98-VAT-018 (1M 3F); KUNASHIR: KU-94-NM-04 (5M 8F), KU-94-VAT-01 (38M 20F), KU-94-VAT-16 (1P), KU-94-VAT-17 (1M); SHIKOTAN: SH-94-RG-01 (1M 2F), SH-94-RG-03 (6M 6F 1P), SH-94-VAT-31 (34M 10F), SH-94-VAT-32 (7P), SH-98-LJW-60 (2M), SH-98-VAT-47 (3M 4F), SH-98-VAT-49 (23M 5F), SH-98-VAT-50 (6L).

Glossosoma intermedium SHUMSHU: SU-99-VAT-23 (5M 5F), SU-00-ATR-11 (1F); PARAMUSHIR: PA-96-VAT-07 (1M), PA-99-KLK-25 (4M 4F), PA-99-VAT-20 (13M 16F).

Glossosoma ussuricum SIMUSHIR: SI-95-PO-66 (4M), SI-95-PO-69 (1M), SI-95-VAT-40 (4M 2F), SI-95-VAT-42 (1M), SI-95-VAT-43 (1P); URUP: UR-95-VAT-53 (5P); ITURUP: IT-94-VAT-34 (2P), IT-94-VAT-49 (1P), IT-94-VAT-51 (2P), IT-95-VAT-06 (1P), IT-98-LJW-25 (1M), IT-98-NM-16 (1M), IT-98-VAT-22 (2M); KUNASHIR: KU-94-VAT-19 (2P), KU-95-PO-128 (1M), KU-95-VAT-69 (1P), KU-97-VAT-03 (1M), KU-98-LJW-40 (1M); SHIKOTAN: SH-94-VAT-29 (15P), SH-98-LJW-56 (1M).

Glossosoma sp. KETOI: KE-95-PO-64 (2L), KE-95-VAT-38 (20L).

Hydroptila sp. ITURUP: IT-98-TIA-31 (1F); POLONSKOGO: PO-98-TIA-64 (1F).

Orthotrichia sp. ZELIONYI: ZE-94-VAT-27 (2L).

Palaeagapetus flexus ITURUP: IT-94-VAT-35 (1M), IT-97-VAT-08 (1M), IT-98-LJW-18 (1L).

Palaeagapetus sp. URUP: UR-95-PO-23 (1F).

Dolophilodes (Dolophilodes) japonicus KUNASHIR: KU-97-NM-03 (1F).

Dolophilodes (Dolophilodes) kunashirensis PARAMUSHIR: PA-99-VAT-20 (5M).

Dolophilodes (Dolophilodes) nomugiensis SHUMSHU: SU-97-NM-42 (1M); KHARIMKOTAN: KH-96-PO-36 (3M); SIMUSHIR: SI-95-PO-66 (1F); URUP: UR-95-VAT-16 (1M); ITURUP: IT-94-RG-06 (1M 1F), IT-94-VAT-39 (10M 5F), IT-95-PO-120 (1M), IT-95-VAT-67 (5M 4F), IT-96-PO-58 (7M 6F), IT-96-PO-59 (1F), IT-96-VAT-39 (2M 8F), IT-97-NM-19 (2F), IT-97-VAT-08 (7M 1F), IT-98-LJW-29 (2F), IT-98-LJW-34 (1F), IT-98-VAT-34 (4M 3F).

Dolophilodes sp. KETOI: KE-95-VAT-38 (7L), KE-95-VAT-38 (7L); SHIASHIKOTAN: SA-96-PO-53 (1L).

Kisaura borealis KUNASHIR: KU-97-NM-01 (29M), KU-97-NM-03 (1M), KU-97-TIR-04 (4M).

Kisaura hattorii ITURUP: IT-98-LJW-11 (4M), IT-98-NM-23 (1M), IT-98-VAT-11 (3M 1F); KUNASHIR: KU-97-NM-01 (6M), KU-97-NM-03 (1M), KU-97-TIR-04 (1M); SHIKOTAN: SH-98-LJW-54 (5M), SH-98-VAT-51-(1M).

Kisaura sp. KUNASHIR: KU-97-NM-01 (1M 6F), KU-97-NM-03 (1M), KU-97-TIR-04 (2M 2F).

Wormaldia sp. KUNASHIR: KU-95-VAT-02 (1F).

Stenopsyche marmorata ITURUP: IT-97-VAT-06 (1F); KUNASHIR: KU-94-NM-10 (1M 1L), KU-94-NM-18 (1M 3L), KU-94-VAT-19 (4L), KU-95-VAT-03 (1L 1P), KU-95-VAT-69 (4L), KU-95-VAT-71 (1M), KU-96-NM-36 (1L), KU-97-NM-01 (3M 1F), KU-97-VAT-03 (1F), KU-98-LJW-04 (3L), KU-98-LJW-41 (10L), KU-98-VAT-01 (1F), KU-98-VAT-02 (1P); SHIKOTAN: SH-98-VAT-50 (1L).

Cheumatopsyche infascia PARAMUSHIR: PA-97-BKU-73 (2M 1F); KUNASHIR: KU-95-VAT-02 (1M), KU-97-BKU-06 (1M), KU-97-NM-01 (151M 308F), KU-97-NM-03 (3M 3F), KU-97-TIR-01 (1M 1F), KU-97-TIR-04 (31M 43F), KU-98-LJW-01 (1M), KU-98-VAT-02 (2M), KU-99-VAT-56 (4M 11F).

Hydropsyche albicephala KUNASHIR: KU-94-NM-16 (1P), KU-97-NM-01 (4M 23F), KU-97-NM-03 (6M 5F), KU-97-TIR-04 (1M), KU-97-VAT-01 (2M 2F), KU-98-LJW-40 (1F), KU-98-VAT-01 (1M).

Hydropsyche orientalis ITURUP: IT-97-NM-20 (1F), IT-99-NM-14 (1F); KUNASHIR: KU-97-NM-01 (15M 50F), KU-97-NM-03 (6F).

Parapsyche shikotsuensis KUNASHIR: KU-97-NM-01 (1M).

Lype excisa ITURUP: IT-98-LJW-13 (1M); KUNASHIR: KU-95-PO-02 (1M), KU-98-LJW-01 (2M 1F).

Ecnomus tenellus ITURUP: IT-98-DJB-34 (1M), IT-98-LJW-16 (20M), IT-98-LJW-19 (1M), IT-98-VAT-15 (1M), IT-99-VAT-50 (77M 8F); KUNASHIR: KU-94-VAT-01 (1M), KU-99-VAT-56 (2M).

Agrypnia acristata ITURUP: IT-96-BKU-86 (2M 2F), IT-96-BKU-87 (6F), IT-96-MO-52 (10F), IT-96-PO-69 (44M 53F), IT-96-PO-75 (1M 2F).

Agrypnia czerskyi ITURUP: IT-94-VAT-44 (1M), IT-96-VAT-48 (7M 10F).

Agrypnia picta SHUMSHU: SU-97-TIR-29 (2M 3F), SU-99-BKU-36 (1M); PARAMUSHIR: PA-96-PO-03 (1F), PA-96-PO-09 (1F), PA-96-KLK-21 (2M 6F), PA-96-KLK-22 (26M 50F), PA-96-KLK-23 (1F), PA-99-VAT-10 (13M 11F); SHIASHIKOTAN: SA-96-PO-50 (5M 3F); RASSHUA: RAS-95-MO-13 (1F), RAS-95-PO-49 (1M 3F), RAS-99-KLK-39 (1F), RAS-99-KLK-40 (1M 1F), PA-99-VAT-30 (2F), PA-99-VAT-32 (2M 3F); ITURUP: IT-96-PO-69 (1M), IT-98-DJB-40 (1M 1F), IT-98-NM-10 (1F), IT-98-VAT-15 (1F), IT-99-NM-15 (1M).

Agrypnia sahlbergi SHUMSHU: SU-97-BKU-50 (2F), SU-97-NM-32 (1M), SU-97-NM-34 (2M 2F), SU-97-NM-35 (8M

2F), SU-97-NM-46 (7M 3F), SU-97-TIR-27 (14M 3F), SU-97-TIR-28 (45M 7F), SU-97-TIR-29 (27M 5F), SU-97-TIR-31 (13M 4F), SU-97-VAT-14 (3M 4F), SU-97-VAT-15 (3M), SU-99-BKU-36 (2F), SU-99-KLK-20 (32M 2F), SU-99-KLK-30 (1F); PARAMUSHIR: PA-96-BKU-15 (3M 1F), PA-96-MO-09 (8M 6F), PA-96-NM-04 (48M 2F), PA-96-NM-07 (28M 1F), PA-96-NM-08 (8M 1F), PA-96-PO-01 (1F), PA-96-PO-03 (1M), PA-96-PO-09 (2M 3F), PA-96-VAT-01 (3M), PA-96-VAT-09 (11M 1F), PA-96-VAT-10 (1M), PA-97-BKU-31 (2F), PA-97-BKU-87 (1F), PA-97-NM-22 (52M 47F), PA-97-NM-52 (1M), PA-97-NM-57 (1M 1F), PA-97-NM-65 (2M), PA-97-NM-72 (1M 2F), PA-97-RLC-15 (1M 1F), PA-97-TIR-15 (5M), PA-97-TIR-19 (2M 33F), PA-97-TIR-48 (1F), PA-97-VAT-09 (5M 15F), PA-97-VAT-10 (1M), PA-99-KLK-21 (2M), PA-99-KLK-22 (23M 3F), PA-99-KLK-23 (1M).

Agrypnia sordida URUP: UR-95-EMS-05 (1M); ITURUP: IT-97-NM-20 (1M 1F), IT-99-DJB-93 (1M), IT-99-NM-14 (3F); KUNASHIR: KU-94-VAT-02 (1M).

Eubasilissa regina KUNASHIR: KU-95-VAT-02 (1M), KU-98-VAT-01 (1F).

Hagenella apicalis KUNASHIR: KU-98-VAT-06 (1M); POLONSKOGO: PO-98-VAT-61 (1M 2F), PO-98-DJB-135 (2F).

Hagenella sibirica PARAMUSHIR: PA-00-DJB-17 (1F).

Oligotricha lapponica PARAMUSHIR: PA-96-RLC-04 (1F), PA-97-DES-43 (1F), PA-97-VAT-10 (1F); ONEKOTAN: ON-99-KLK-04 (2F).

Oligotricha sp. URUP: UR-95-PO-108 (4L), UR-95-PO-109 (4L); SHUMSHU: SU-97-NM-41 (1L).

Brachycentrus americanus KUNASHIR: KU-94-NM-05 (1L 1P), KU-94-NM-10 (3L).

Brachycentrus sp. SHUMSHU: SU-97-NM-56 (38L).

Micrasema hanasensis KETOI: KE-95-PO-64 (1P), KE-95-VAT-37 (1M 1F); URUP: UR-95-PO-21 (1M), UR-95-VAT-16 (1M), UR-95-VAT-23 (1M); ITURUP: IT-98-BKU-60 (1F), IT-98-LJW-15 (1M), IT-98-NM-23 (1M); KUNASHIR: KU-97-NM-03 (1M).

Micrasema sp. SIMUSHIR: SI-95-PO-40 (1M).

Asynarchus sachalinensis URUP: UR-95-VAT-57 (2F); ITURUP: IT-94-RG-08 (16P); SHIKOTAN: SH-98-VAT-42 (1M 1F).

Dicosmoecus jozankeanus URUP: UR-95-MO-05 (1L), UR-95-PO-10 (1L 1P), UR-95-PO-11 (3L 1P), UR-95-PO-34 (1M 2L 23P), UR-95-PO-37 (25P), UR-95-PO-88 (1L), UR-95-PO-95 (1P), UR-95-PO-106 (1F), UR-95-PO-107 (1L 2P), UR-95-PO-110 (1F), UR-95-PO-112 (13M 14F), UR-95-PO-118 (1F), UR-95-VAT-08 (1L), UR-95-VAT-09 (1L), UR-95-VAT-10 (3L), UR-95-VAT-14 (1M), UR-95-VAT-15 (3L), UR-95-VAT-23 (9L), UR-95-VAT-53 (4L), UR-95-VAT-56 (1L), UR-95-VAT-57 (1M), UR-95-VAT-58 (2L), UR-95-VAT-59 (2L), UR-95-VAT-60 (12M 4F), UR-95-VAT-66 (1M), UR-96-VAT-42 (5L 3P); ITURUP: IT-94-RG-02 (2L), IT-94-RG-04 (1L), IT-94-RG-05 (1P), IT-94-RG-08 (6L), IT-94-RG-12 (2P), IT-94-RG-14 (4P), IT-94-RG-15 (1L), IT-94-VAT-34 (1L), IT-94-VAT-37 (1L), IT-94-VAT-42 (3L), IT-94-VAT-46 (1L), IT-94-VAT-47 (1L), IT-94-VAT-49 (1L), IT-94-VAT-51 (1L), IT-94-VAT-53 (3L), IT-98-LJW-23 (1L), IT-98-LJW-28 (1P), IT-98-LJW-33 (1M); KUNASHIR: KU-94-NM-08 (2L), KU-94-NM-10 (11P), KU-94-NM-16 (1P), KU-94-NM-17 (6L), KU-94-VAT-06 (1L), KU-94-VAT-09 (1L), KU-94-VAT-16 (1L), KU-94-VAT-19 (3L), KU-95-VAT-01 (3L), KU-97-VAT-02 (1L), KU-98-LJW-04 (2L), KU-98-LJW-09 (2L), KU-98-LJW-41 (3L), KU-98-VAT-02 (3L), KU-98-VAT-08 (5L); SHIKOTAN: SH-94-RG-01 (2L), SH-94-RG-03 (5L), SH-94-TWP-03 (1L), SH-98-LJW-57 (4L), SH-98-LJW-63 (1L), SH-98-VAT-50 (1L).

Ecclisocosmoecus spinosus URUP: UR-95-PO-10 (1M 1L), UR-95-PO-15 (2L), UR-95-PO-23 (1M), UR-95-PO-24 (1M), UR-95-PO-93 (1F), UR-95-PO-94 (3L), UR-95-PO-105 (18L), UR-95-PO-107 (5L), UR-95-VAT-09 (1L 4P), UR-95-VAT-10 (3L), UR-95-VAT-13 (7L), UR-95-VAT-15 (1L), UR-95-VAT-19 (1M 6L), UR-95-VAT-53 (1L 15P), UR-95-VAT-55 (28L), UR-95-VAT-66 (2M), UR-96-PO-62 (1M), UR-96-VAT-41 (3M), UR-96-VAT-42 (9L 2P), UR-96-VAT-46 (10L); ITURUP: IT-94-RG-04 (17M 6F), IT-94-RG-05 (2L), IT-94-VAT-39 (2M), IT-94-VAT-40 (3M), IT-95-PO-120 (35M 8F 26L 2P), IT-95-PO-121 (1M), IT-95-VAT-67 (21M 3F), IT-95-VAT-68 (27L), IT-96-PO-58 (36M 3F 1L), IT-96-VAT-39 (8M), IT-97-NM-20 (1M 1F), IT-97-NM-84 (1M), IT-97-NM-85 (1M), IT-97-VAT-08 (3M), IT-98-LJW-12 (2L), IT-98-LJW-23 (1L), IT-98-LJW-28 (1L), IT-98-LJW-35 (10L), IT-98-VAT-28 (1M), IT-98-VAT-29 (16L), IT-98-VAT-32 (1L), IT-98-VAT-34 (1M 1F), IT-98-VAT-35 (4L); KUNASHIR: KU-98-LJW-06 (2L); SHIKOTAN: SH-98-LJW-55 (4L), SH-98-NM-33 (21L), SH-98-VAT-53 (29L); TANFILYEVA: TA-98-LJW-66 (2L).

Ecclisomyia kamtshatica SHUMSHU: SU-97-NM-42 (2M), SU-97-VAT-24 (1F), SU-97-VAT-25 (1M); PARAMUSHIR: PA-96-NM-03 (1P), PA-96-PO-07 (1M 1F), PA-96-VAT-08 (1L), PA-97-BKU-73 (1M), PA-97-NM-50 (1M), PA-97-NM-59 (1M), PA-97-VAT-10 (1M), PA-97-VAT-29 (4M 5F), PA-97-VAT-35 (4M), PA-97-VAT-36 (2L 4P), PA-97-VAT-41 (1M 1F), PA-97-VAT-49 (3M 3F); KETOI: KE-95-MO-37 (1M), KE-95-PO-73 (1M 1F), KE-95-PO-74 (9M 9F), KE-95-PO-75 (2P), KE-95-PO-76 (1M 1F), KE-95-VAT-37 (1F), KE-95-VAT-44 (3M 8F), KE-95-VAT-45 (4L 1P), KE-95-VAT-46 (1F); SIMUSHIR: SI-95-PO-70 (1M), SI-95-PO-82 (6M), SI-95-VAT-43 (2L 7P), SI-95-VAT-51 (3L), SI-99-KLK-41 (1P); URUP: UR-95-PO-10 (4M), UR-95-PO-11 (1M 4L), UR-95-PO-18 (2M), UR-95-PO-23 (1M), UR-95-PO-93 (1M), UR-95-PO-100 (1M), UR-95-VAT-11 (1M), UR-95-VAT-15 (1L), UR-95-VAT-23 (1L 4P), UR-95-VAT-58 (4L), UR-96-VAT-42 (1P); ITURUP: IT-94-RG-05 (20P), IT-94-RG-06 (1M 2 F 1P), IT-94-VAT-34 (1L), IT-94-VAT-38 (18P), IT-94-VAT-46 (1L), IT-95-PO-121 (4M 1F), IT-96-NM-19 (3M 1F), IT-96-PO-59 (1M), IT-97-BKU-19 (3M 1F), IT-97-NM-06 (4M 2F), IT-97-NM-13 (1M), IT-97-NM-20 (8M 6F), IT-97-NM-84 (1M), IT-97-VAT-06 (4M 1F), IT-98-LJW-27 (1M), IT-98-LJW-30 (1M), IT-98-VAT-32 (98P).

Grammotaulius inornatus PARAMUSHIR: PA-97-NM-22 (1M).

Grammotaulius signatipennis SHUMSHU: SU-97-VAT-24 (1F); PARAMUSHIR: PA-99-VAT-19 (1F); ONEKOTAN: ON-99-KLK-04 (1P).

Halesus sachalinensis URUP: UR-95-PO-106 (1M), UR-95-VAT-10 (5L), UR-95-VAT-23 (1L), UR-95-VAT-53 (1F 1L); ITURUP: IT-94-RG-04 (1P), IT-94-TWP-02 (1L); KUNASHIR: KU-94-NM-17 (1L), KU-97-VAT-02 (1L); SHIKOTAN: SH-94-RG-03 (1L).

Hydatophylax festivus URUP: UR-96-VAT-46 (2L); ITURUP: IT-94-RG-04 (5L), IT-94-RG-14 (1L), IT-96-VAT-47 (4L),

IT-98-VAT-22 (1M); KUNASHIR: KU-94-NM-01 (6L), KU-94-NM-04 (1L), KU-94-NM-13 (1L), KU-98-LJW-41 (3L), KU-99-KLK-52 (1L); SHIKOTAN: SH-94-RG-01 (5L), SH-94-RG-03 (1L); ZELIONYI: ZE-94-NM-03 (17L).

Hydatophylax variabilis KUNASHIR: KU-94-TWP-07 (1L), KU-98-LJW-41 (6L); SHIKOTAN: SH-98-LJW-50 (1L), SH-98-LJW-57 (2L).

Hydatophylax sp. KETOI: KE-95-PO-73 (1F), KE-95-VAT-38 (1P), KE-95-VAT-44 (1M), KE-95-VAT-45 (1L 1P); SIMUSHIR: SI-95-PO-80 (1F), SI-95-PO-82 (3M 1F), SI-95-VAT-41 (4 L 4P), SI-95-VAT-43 (1L 1P), SI-95-VAT-48 (4M), SI-95-VAT-51 (3L), SI-99-KLK-42 (1M); URUP: UR-95-PO-18 (1M), UR-95-VAT-60 (1M), UR-95-VAT-42 (2L 1P); ITURUP: IT-95-VAT-06 (1L), IT-96-NM-19 (4M 1F), IT-97-NM-84 (1M); KUNASHIR: KU-95-PO-127 (1M); SHIKOTAN: SH-94-RG-01 (1L), SH-98-LJW-50 (1L).

Hydatophylax sp. PARAMUSHIR: PA-96-VAT-08 (11L).

Lenarchus fuscostramineus URUP: UR-95-PO-112 (1F); ITURUP: IT-98-DJB-71 (1F); SHIKOTAN: SH-98-LJW-46 (1F), SH-98-LJW-61 (7L); TANFILYEVA: TA-98-TIA-57 (1M).

Limnephilus alienus SHUMSHU: SU-99-VAT-25 (1L); ONEKOTAN: ON-96-VAT-14 (2L 3P); SHIASHKOTAN: SA-96-VAT-28 (1L); RASSHUA: RAS-95-PO-47 (1M 1F), RAS-95-VAT-31 (5L); URUP: UR-95-BKU-73 (1M 1F), UR-95-PO-102 (1P), UR-95-PO-106 (1M 1F), UR-95-PO-110 (3M 2F), UR-95-PO-111 (1F), UR-95-PO-112 (1F), UR-95-PO-113 (1M 2F), UR-95-PO-116 (2P), UR-95-VAT-08 (3L), UR-95-VAT-14 (9L), UR-95-VAT-54 (1L), UR-95-VAT-61 (1M 12F), UR-95-VAT-63 (3P), UR-95-VAT-65 (1M), UR-96-PO-67 (3P), UR-96-VAT-43 (5L 4P), UR-96-VAT-44 (4M 4F), UR-96-VAT-45 (3M 6F); ITURUP: IT-94-RG-07 (4M 3F), IT-94-RG-09 (1M 1P), IT-96-NM-29 (2P), IT-96-PO-69 (1M), IT-96-PO-75 (2M 1F), IT-96-VAT-49 (2L), IT-98-DJB-41 (1F), IT-98-LJW-19 (1M), IT-98-VAT-21 (1M), IT-99-KLK-44 (1F), IT-99-KLK-45 (1F), IT-99-NM-14 (2M 3F); KUNASHIR: KU-98-DJB-140 (1M), KU-99-VAT-57 (1F).

Limnephilus elegans PARAMUSHIR: PA-97-VAT-09 (1F), PA-97-VAT-10 (1F), PA-00-ATR-015 (1F), PA-00-DJB-016 (1M).

Limnephilus femoralis SHUMSHU: SU-97-NM-34 (1M 1F), SU-97-NM-37 (1F), SU-97-TIR-28 (1F), SU-97-VAT-24 (2M 1F), SU-99-KLK-20 (10M 11F), SU-99-VAT-16 (2M 7F); PARAMUSHIR: PA-96-MO-01 (1M), PA-96-VAT-04 (1M), PA-97-NM-52 (1F), PA-97-VAT-10 (3F), PA-99-KLK-21 (2F), PA-99-KLK-22 (2M 5F), PA-99-VAT-19 (2F), PA-99-VAT-20 (1F), PA-00-ATR-16 (2F), PA-00-DJB-16 (2M), PA-00-DJB-17 (1M 1F).

Limnephilus femoratus ITURUP: IT-96-VAT-48 (2M), IT-96-VAT-54 (1M 1F).

Limnephilus fenestratus SHUMSHU: SU-97-VAT-24 (2M 1F); PARAMUSHIR: PA-97-NM-65 (1M 6F), PA-97-NM-72 (2F), PA-97-RLC-60 (2M 1F), PA-97-VAT-48 (1F).

Limnephilus fuscovittatus SHUMSHU: SU-97-NM-46 (2M 4F), SU-99-DJB-40A (1F); ATLASOVA: AL-97-NM-53 (1F), AL-99-VAT-05 (1M); PARAMUSHIR: PA-96-NM-04 (1M 1F), PA-96-NM-07 (1F), PA-99-VAT-19 (1F); PA-00-ATR-13 (1F), PA-00-ATR-15 (2F); ONEKOTAN: ON-99-VAT-02 (30M 22F); KHARIMKOTAN: KH-00-ATR-30 (1M); MATUA: MA-96-NM-17 (1M), MA-99-VAT-19 (1F); RASSHUA: RAS-95-PO-47 (1F), RAS-95-PO-49 (1M 1F); KETOI: KE-95-PO-61 (1M), KE-95-PO-63 (1M), KE-95-PO-74 (1M 2F), KE-95-VAT-37 (1M), KE-95-VAT-44 (4F); SIMUSHIR: SI-95-PO-45 (1M 1F), SI-95-PO-82 (1M), SI-95-VAT-48 (4M); URUP: UR-95-PO-31 (1M 1F), UR-95-PO-106 (2M 2F), UR-95-PO-110 (1M), UR-95-PO-112 (1M 1F), UR-95-PO-113 (2F), UR-95-VAT-60 (2M), UR-96-BKU-80 (1F); ITURUP: IT-94-RG-13 (1L), IT-96-PO-69 (10M 3F), IT-96-VAT-48 (3M), IT-98-DJB-71 (1F), IT-98-NM-16A (2M); KUNASHIR: KU-94-VAT-56 (1M), KU-98-VAT-06 (1M 1F); SHIKOTAN: SH-98-DJB-93 (1F), SH-98-LJW-46 (1F), SH-98-LJW-61 (7L), SH-98-NM-35 (1M); TANFILYEVA: TA-98-TIA-57 (1M).

Limnephilus incisus PARAMUSHIR: PA-96-MO-06 (1F), PA-97-NM-74 (2M 3F), PA-97-VAT-44 (4M 9F), PA-97-VAT-48 (1F).

Limnephilus major SHUMSHU: SU-99-KLK-26 (3M 1F), SU-99-KLK-27 (25M 16F).

Limnephilus nigriceps PARAMUSHIR: PA-97-NM-74 (2M).

Limnephilus nipponicus KETOI: KE-95-PO-61 (2F), KE-95-VAT-39 (1M); SIMUSHIR: SI-99-VAT-34 (2M 2F); URUP: UR-95-PO-31 (1F), UR-95-PO-106 (1F), UR-95-PO-112 (2M), UR-95-PO-118 (1M), UR-95-VAT-10 (1M), UR-95-VAT-22 (1F), UR-95-VAT-60 (2M), UR-96-NM-26 (1F), UR-96-PO-66 (2M), RU-96-VAT-45 (1M), UR-00-DJB-81 (1M 1F); ITURUP: IT-94-RG-09 (1M), IT-96-PO-69 (6M 2F), IT-96-PO-75 (2F), IT-96-VAT-48 (4M), IT-96-VAT-50 (2M), IT-97-NM-12 (1M), IT-97-NM-21 (1M 2F), IT-98-BKU-26 (1F), IT-98-LJW-37 (1F), IT-98-NM-13 (1F), IT-98-VAT-15A (1F), IT-98-VAT-37 (3M 9F), IT-99-KLK-45 (1M), IT-99-NM-13 (1F), IT-99-VAT-54 (1M 2F); KUNASHIR: KU-95-PO-123 (1F), KU-98-VAT-06 (3M 1F); SHIKOTAN: SH-98-BKU-91 (2F), SH-98-LJW-46 (1M 1F).

Limnephilus orientalis URUP: UR-96-PO-66 (1F), UR-96-VAT-41 (1F), UR-00-DJB-81 (2F); ITURUP: IT-96-NM-19 (2M), IT-97-BKU-19 (1F), IT-97-NM-20 (1M 4F), IT-97-VAT-06 (1F), IT-99-NM-14 (1F); KUNASHIR: KU-95-PO-128 (1F).

Limnephilus ornatulus KUNASHIR: KU-97-VAT-05 (1F), KU-99-VAT-56 (1M).

Limnephilus picturatus SHUMSHU: SU-97-MO-12A (4M 9F), SU-97-VAT-20 (2F), SU-97-VAT-21 (1M), SU-97-VAT-23 (1M), SU-97-VAT-24 (1F), SU-99-BKU-36 (1M), SU-99-KLK-27 (6M 12F), SU-99-KLK-28 (17M 4F), SU-99-VAT-25 (1F); PARAMUSHIR: PA-97-VAT-10 (1M 1F).

Limnephilus quadratus KUNASHIR: KU-99-VAT-56 (5M 2F), KU-99-VAT-57 (1M); TANFILYEVA: TA-98-TIA-57 (5M 1F); IURII: IU-98-TIA-59 (1M).

Limnephilus rhombicus ITURUP: IT-97-VAT-06 (1F).

Limnephilus sericeus SHUMSHU: SU-97-BKU-51 (1M), SU-97-MO-12A (19F), SU-97-NM-34 (3M 2F), SU-97-NM-39 (2M 1F), SU-97-NM-49 (2F), SU-97-RLC-30 (1F), SU-97-TIR-29 (2F), SU-97-TIR-30 (1M), SU-97-VAT-14 (1F), SU-97-VAT-21 (1M), SU-97-VAT-22 (2F), SU-97-VAT-23 (2M 5F), SU-97-VAT-24 (8M 8F), SU-99-BKU-35

(1M 2F), SU-99-KLK-26 (1M), SU-99-KLK-27 (11M 8F), SU-99-VAT-25 (5M 1F), SU-00-DJB-12 (1F); PARAMUSHIR: PA-96-NM-08 (1M), PA-96-VAT-03 (1F), PA-96-VAT-11 (2F), PA-97-BKU-33 (1M 1F), PA-97-MO-25A (1M 1F), PA-97-MO-26A (1F), PA-97-NM-62 (1F), PA-97-NM-74 (1F), PA-97-RLC-60 (1M), PA-97-TIR-36 (1M), PA-97-VAT-39 (2M 1F), PA-97-VAT-44 (27M 21F), PA-97-VAT-45 (2F), PA-97-VAT-46 (1M), PA-99-VAT-19 (1M), PA-00-ATR-13 (3M 2F), PA-00-ATR-15 (1M 1F), PA-00-ATR-16 (1M 1F), PA-00-DJB-16 (3M 1F); MAKANRUSHI: MK-97-BKU-94 (1M 1F), MK-97-VAT-55 (1F); ONEKOTAN: ON-96-PO-14 (1P), ON-96-PO-15 (1M 1F), ON-96-PO-16 (1M 1F); KHARIMKOTAN: KH-96-PO-32 (1M), KH-96-PO-34 (3M 7F), KH-96-PO-39 (1M), KH-00-DJB-30 (1M), KH-00-DJB-31 (1F); SHIASHKOTAN: SA-96-PO-48 (1M), SA-96-VAT-31 (1F), SA-96-VAT-32 (12P); MATUA: MA-96-PO-55 (2M 5F), MA-96-VAT-34 (11M 1F), MA-96-VAT-37 (1M), MA-99-KLK-36 (46M 34F), MA-99-KLK-38 (2M 2F), MA-99-VAT-29 (1M); RASSHUA: RAS-95-MO-13 (1M 1F), RAS-95-PO-47 (1M 3F), RAS-95-PO-49 (45M 30F), RAS-95-VAT-33 (1M 2F), RAS-95-VAT-36 (7M 14F), RAS-99-KLK-39 (1F), RAS-99-KLK-40 (10M 5F), RAS-99-VAT-30 (9M 11F), RAS-99-VAT-32 (8M 4F); KETOI: KE-95-MO-23 (1M 2F), KE-95-PO-61 (10M 10F), KE-95-PO-63 (1M 3F), KE-95-PO-77 (3P), KE-95-VAT-37 (3M 8F), KE-95-VAT-39 (1M 4F); SIMUSHIR: SI-99-VAT-34 (1F), SI-00-ATR-73 (1M); URUP: UR-95-MO-08 (2M 1F), UR-95-MO-72 (1F), UR-95-PO-31 (1M 1F), UR-95-PO-96 (1M), UR-95-PO-106 (4M 2F), UR-95-PO-112 (2M), UR-95-PO-113 (29M 12F), UR-95-PO-115 (1M 3F), UR-95-PO-117 (2M 2F), UR-95-VAT-22 (4M 1F), UR-95-VAT-57 (1M), UR-95-VAT-60 (1M), UR-95-VAT-65 (2F), UR-96-VAT-41 (1M), UR-00-DJB-81 (5M 4F); ITURUP: IT-94-RG-11 (1M), IT-96-PO-75 (1F), IT-98-NM-05 (1M); SHIKOTAN: SH-98-VAT-45 (5M 2F).

Limnephilus sparsus ATLASOVA: AL-97-NM-54 (1M 5F), AL-97-VAT-30 (1M 3F), AL-97-VAT-33 (1M 1F), AL-99-KLK-07 (1M); SHUMSHU: SU-97-BKU-44 (1F), SU-97-BKU-51 (2F), SU-97-MO-12A (1F), SU-97-NM-34 (1M 7F), SU-97-NM-35 (1F), SU-97-NM-37 (1M 1F), SU-97-NM-39 (3F), SU-97-NM-42 (6F), SU-97-RLC-30 (1F), SU-97-TIR-27 (1F), SU-97-TIR-30 (1F), SU-97-TIR-31 (1M 4F), SU-97-TIR-32 (1F), SU-97-TWP-21 (1M 1F), SU-97-VAT-13 (1F), SU-97-VAT-14 (9F), SU-97-VAT-15 (1F), SU-97-VAT-16 (2M 1F), SU-97-VAT-17 (1P), SU-97-VAT-18 (1M 1F), SU-97-VAT-20 (2M 3F), SU-97-VAT-21 (3M 9F), SU-97-VAT-22 (3F), SU-97-VAT-23 (3F), SU-97-VAT-24 (1F), SU-99-KLK-28 (2F), SU-99-VAT-23 (1M 1F), SU-00-ATR-11 (1M 4F); PARAMUSHIR: PA-96-BKU-03 (1M), PA-96-NM-04 (2M 1F), PA-96-NM-07 (1F), PA-96-NM-08 (9F), PA-96-PO-07 (1F), PA-96-VAT-06 (3M 2F), PA-96-VAT-07 (3M), PA-96-VAT-09 (1M 2F), PA-96-VAT-10 (1F), PA-96-VAT-11 (4M 8F), PA-97-BKU-33 (1F), PA-97-BKU-70 (1F), PA-97-BKU-77 (1F), PA-97-MO-06A (2F), PA-97-MO-25A (1F), PA-97-MO-34 (1F), PA-97-NM-52 (1F), PA-97-NM-62 (1M), PA-97-NM-72 (1F), PA-97-NM-74 (2F), PA-97-TIR-17 (1F), PA-97-TIR-37 (1F), PA-97-TIR-45 (1M), PA-97-VAT-09 (4F), PA-97-VAT-10 (3F), PA-97-VAT-35 (1F), PA-97-VAT-37 (2F), PA-97-VAT-39 (1F), PA-97-VAT-46 (1M 1F), PA-97-VAT-48 (1M 1F), PA-97-VAT-49 (1M), PA-99-BKU-32 (1F), PA-99-VAT-10 (1M), PA-99-VAT-20 (3M), PA-00-ATR-13 (3M 4F), PA-00-DJB-16 (1M 3F), PA-00-DJB-17 (2M); MAKANRUSHI: MK-97-BKU-94 (1F); ONEKOTAN: ON-96-PO-13 (1F), ON-96-PO-21 (2M 1F), ON-96-PO-23 (6M), ON-96-PO-25 (2M), ON-96-PO-30 (1M), ON-96-PO-43 (1F), ON-96-VAT-15 (5M 6F), ON-96-VAT-20 (1M), ON-96-VAT-23 (1F), ON-99-DJB-07 (1M); KHARIMKOTAN: KH-96-BKU-40 (1F), KH-96-PO-36 (1M 1F), KH-96-PO-38 (1M), KH-96-PO-41 (1F), KH-96-VAT-22 (2M 3F); SHIASHKOTAN: SA-96-NM-11 (1F), SA-96-NM-14 (1M 1F), SA-96-VAT-29 (1M 3F), SA-99-KLK-33 (1F), SA-00-ATR-39 (1F), SA-00-ATR-42 (1M), SA-00-DJB-33 (1M 4F), SA-00-DJB-36 (1F); MATUA: MA-96-NM-16 (1F), MA-96-VAT-34 (5M 5F), MA-99-KLK-36 (1M 6F), MA-99-KLK-37 (3M 3F), MA-99-KLK-38 (1M 1F), MA-99-VAT-29 (1M 1F); RASSHUA: RAS-95-PO-47 (1M), RAS-95-PO-49 (3M), RAS-95-PO-52 (10M 3F), RAS-95-VAT-36 (3M 3F), RAS-99-KLK-39 (3M 7F), RAS-99-KLK-40 (5M 11F), RAS-99-VAT-30 (2M 4F), RAS-99-VAT-32 (2M 3F); KETOI: KE-95-PO-61 (1F), KE-95-PO-63 (1M 1F), KE-95-PO-65 (1F), KE-95-PO-73 (2F); SIMUSHIR: SI-95-PO-82 (2F), SI-95-VAT-26 (1F), SI-95-VAT-50 (1M), SI-99-VAT-40 (1F); URUP: UR-95-PO-11 (2F), UR-95-PO-14 (1F), UR-95-PO-18 (1M), UR-95-VAT-10 (1M), UR-95-VAT-57 (1F), UR-95-VAT-61 (1F), UR-00-DJB-81 (1M); ITURUP: IT-96-PO-69 (15M 12F), IT-96-PO-75 (1F), IT-96-VAT-48 (4M 4F), IT-97-BKU-14 (1M), IT-97-NM-06 (1F), IT-98-LJW-15 (1F), IT-98-NM-20 (1M), IT-99-DJB-97 (1F), IT-99-DJB-99 (1F); KUNASHIR: KU-99-KLK-49 (1F), KU-99-KLK-50 (1F); SHIKOTAN: SH-98-DJB-93 (1F), SH-98-DJB-99 (1F), SH-98-LJW-62 (1F); ZELIONYI: ZE-98-LJW-70 (1M 1F); TANFILYEVA: TA-98-TIA-57 (1F).

Limnephilus stigma SHUMSHU: SU-97-RLC-30 (1M), SU-99-KLK-27 (8M 5F); PARAMUSHIR: PA-96-MO-06 (1F), PA-96-NM-08 (1F), PA-96-VAT-11 (1F), PA-97-MO-06A (2M), PA-97-NM-72 (1F), PA-97-VAT-44 (1M 4F); ONEKOTAN: ON-96-RLC-26 (1M 1F); KHARIMKOTAN: KH-96-PO-34 (5M 6F), KH-96-PO-41 (2M); ITURUP: IT-94-RG-15 (1M).

Limnephilus subcentralis ITURUP: IT-99-VAT-54 (1M).

Nemotaulius miyakei ITURUP: IT-99-VAT-50 (1F); KUNASHIR: KU-98-VAT-06 (1M), KU-99-NM-18 (1M 1F).

Nothopsyche sp. KUNASHIR: KU-94-NM-18 (1L), KU-98-LJW-41 (1L).

Onocosmoecus unicolor ATLASOVA: AL-97-VAT-30 (1M), AL-99-KLK-08 (11L); SHUMSHU: SU-97-NM-32 (1F), SU-97-NM-39 (2M), SU-97-NM-42 (1M 2F), SU-97-TIR-32 (1M), SU-97-VAT-20 (1M), SU-97-VAT-21 (1M), SU-97-VAT-22 (1M), SU-97-VAT-25 (2M); PARAMUSHIR: PA-96-NM-02 (1M), PA-96-NM-03 (2P), PA-96-PO-07 (1M), PA-96-VAT-03 (1F), PA-96-VAT-04 (1M 1F), PA-97-VAT-29 (1M), PA-97-VAT-35 (1M), PA-97-VAT-36 (2P), PA-97-VAT-42 (3M 1F), PA-97-VAT-49 (4M); MAKANRUSHI: MK-97-NM-77 (2M), MK-97-VAT-51 (4M 1F), MK-97-VAT-52 (8P); ONEKOTAN: ON-96-MO-11 (1L), ON-96-VAT-15 (2M), ON-96-VAT-16 (3P), ON-96-VAT-18 (3L 10P), ON-96-VAT-23 (4M), ON-96-VAT-24 (2L 7P); KHARIMKOTAN: KH-96-PO-36 (5M), KH-96-PO-37 (2L), KH-96-VAT-21 (1L); EKARMA: EK-99-KLK-31 (1L); SHIASHKOTAN: SA-96-NM-13 (1M), SA-96-PO-46 (1M 1F), SA-96-PO-47 (1L), SA-96-VAT-28 (1L), SA-96-VAT-29 (2M 1F), SA-96-VAT-30 (4L), SA-99-KLK-32 (1L), SA-99-KLK-33 (1M); RASSHUA: RAS-95-PO-52 (5M 1F), RAS-95-PO-55 (1M); KETOI: KE-95-PO-62 (6L).

Allomyia coronae ITURUP: IT-94-VAT-39 (2L), IT-98-VAT-35 (3L); SHIKOTAN: SH-98-VAT-50 (1L).
Allomyia delicatula SIMUSHIR: SI-95-PO-70 (1F), SI-95-VAT-25 (6L), SI-95-VAT-41 (3L).
Apatania parvula RASSHUA: RAS-95-PO-47 (2M), RAS-95-PO-49 (2M), RAS-95-PO-51 (1F), RAS-95-PO-52 (2M 4F), RAS-95-PO-57 (7M), RAS-95-VAT-31 (1F), RAS-95-VAT-32 (5L 20P); KETOI: KE-95-PO-63 (1F), KE-95-PO-73 (12M 6F), KE-95-PO-74 (13M 1F), KE-95-PO-76 (2F), KE-95-PO-79 (2M 1F), KE-95-VAT-37 (1M 1F), KE-95-VAT-38 (4L 2P), KE-95-VAT-44 (12M 4F), KE-95-VAT-45 (8L 4P), KE-95-VAT-47 (5M 1F); SIMUSHIR: SI-95-BKU-32B (4M 4F), SI-95-MO-10 (4M 4F 1P), SI-95-PO-40 (1M 2F), SI-95-PO-41 (1P), SI-95-PO-42 (30M 24F), SI-95-PO-43 (45M 18F), SI-95-PO-44 (2P), SI-95-PO-46 (4P), SI-95-PO-66 (4M 2F), SI-95-PO-68 (1M), SI-95-PO-69 (2M), SI-95-PO-70 (1M 1F), SI-95-PO-80 (3M 5F), SI-95-PO-82 (6M), SI-95-VAT-24 (4M 10F), SI-95-VAT-25 (20P), SI-95-VAT-26 (15M 6F), SI-95-VAT-29 (1M 1F), SI-95-VAT-30 (22M 5F), SI-95-VAT-40 (3M 1F), SI-95-VAT-41 (3L), SI-95-VAT-42 (1F), SI-95-VAT-43 (2L), SI-95-VAT-48 (3M), SI-95-VAT-49 (7L), SI-95-VAT-50 (1M), SI-99-DJB-69 (1F), SI-99-DJB-71 (1M), SI-99-KLK-42 (3M 2F), SI-99-NM-08 (1F), SI-99-VAT-40 (4M 1F 1P); URUP: UR-95-MO-08 (1F), UR-95-MO-61 (2M), UR-95-MO-67 (2M), UR-95-PO-10 (1M 4P), UR-95-PO-11 (3M), UR-95-PO-14 (7M 4F), UR-95-PO-15 (6P), UR-95-PO-21 (1M), UR-95-PO-23 (5M 6F), UR-95-PO-25 (7M 9F), UR-95-PO-31 (7M 3F), UR-95-PO-93 (1F), UR-95-PO-96 (24M 2F), UR-95-PO-99 (3M), UR-95-PO-100 (1F), UR-95-PO-104 (6M 5F), UR-95-PO-106 (6M 3F), UR-95-PO-107 (2P), UR-95-PO-118 (12M 1F), UR-95-VAT-08 (6P), UR-95-VAT-11 (3M 1F), UR-95-VAT-13 (6M 1L 10P), UR-95-VAT-18 (2M), UR-95-VAT-20 (1M), UR-95-VAT-22 (13M 2F), UR-95-VAT-52 (2M 3F), UR-95-VAT-53 (2P), UR-95-VAT-57 (10M 4F), UR-95-VAT-58 (1L), UR-95-VAT-60 (1M), UR-95-VAT-66 (12M 3F), UR-95-VR-32 (1M), UR-00-ATR-85 (1F), UR-00-ATR-86 (2M), UR-00-DJB-81 (14M); ITURUP: IT-94-RG-06 (8M 4F), IT-94-VAT-36 (1F), IT-94-VAT-40 (2F 1P), IT-94-VAT-45 (1M), IT-95-PO-06 (1F), IT-95-PO-119 (3M 2F), IT-95-VAT-05 (15M 3F), IT-95-VAT-06 (1M 5L 2P), IT-96-PO-59 (1M), IT-96-VAT-39 (1M 1F), IT-97-VAT-08 (1M), IT-98-LJW-18 (5M 1F), IT-98-LJW-24 (2M), IT-98-LJW-34 (2M 1F), IT-98-LJW-36 (3M 1F), IT-98-NM-19 (10M 9F), IT-98-DJB-63 (2M), IT-98-VAT-16 (1M 1F), IT-98-VAT-24 (9M 4F), IT-98-VAT-26 (3M), IT-98-VAT-28 (1M 1F), IT-98-VAT-34 (2M), IT-99-VAT-46 (4M 1P); KUNASHIR: KU-94-VAT-04 (1M), KU-95-PO-127 (38M 21F), KU-95-VAT-69 (3L); SHIKOTAN: SH-98-VAT-42 (12M 8F); ANUCHINA: AN-98-TIA-55 (2F).
Apatania zonella ATLASOVA: AL-97-NM-54 (4F), AL-97-VAT-33 (1M 5F), AL-99-KLK-07 (1F); SHUMSHU: SU-97-BKU-60 (2F), SU-97-MO-17 (5F), SU-97-NM-30 (1F), SU-97-NM-32 (12F), SU-97-NM-39 (90F), SU-97-NM-42 (12F), SU-97-NM-44 (4F), SU-97-NM-46 (3F), SU-97-TIR-32 (10F), SU-97-TIR-33 (6F), SU-97-VAT-13 (3F), SU-97-VAT-16 (16F), SU-97-VAT-17 (3L 7P), SU-97-VAT-18 (10F), SU-97-VAT-20 (18F), SU-97-VAT-21 (1M 34F), SU-97-VAT-24 (7F), SU-97-VAT-25 (11F), SU-97-VAT-27 (7F), SU-99-DJB-27 (1F), SU-99-KLK-28 (3M 360F), SU-99-KLK-29 (2P), SU-99-KLK-30 (8F), SU-99-VAT-23 (1M 29F), SU-00-ATR-07 (2F), SU-00-ATR-08 (2F), SU-00-ATR-11 (6F), SU-00-DJB-10 (1M 3F), SU-00-DJB-10A (1F); PARAMUSHIR: PA-96-MO-01 (1F), PA-96-MO-03 (2F), PA-96-NM-02 (7F), PA-96-NM-04 (8F), PA-96-PO-01 (1M 12F), PA-96-PO-05 (1M 3F), PA-96-PO-07 (16F), PA-96-VAT-01 (1F), PA-96-VAT-02 (2L), PA-96-VAT-03 (8F), PA-96-VAT-04 (36F), PA-96-VAT-05 (6L 2P), PA-96-VAT-06 (16F), PA-96-VAT-07 (8F), PA-96-VAT-08 (4P), PA-96-VAT-10 (27F), PA-97-BKU-33 (1F), PA-97-BKU-72 (1F), PA-97-MO-25A (3F), PA-97-MO-26A (2F), PA-97-MO-29 (1M 1F), PA-97-MO-33A (3F), PA-97-NM-50 (2F), PA-97-NM-57 (2F), PA-97-NM-59 (1F), PA-97-NM-62 (7F), PA-97-NM-73 (3F), PA-97-RLC-63 (5F), PA-97-TIR-17 (1M 7F), PA-97-TIR-45 (11F), PA-97-VAT-09 (20F), PA-97-VAT-10 (3F), PA-97-VAT-29 (8F), PA-97-VAT-35 (7F), PA-97-VAT-36 (1L), PA-97-VAT-37 (1F), PA-97-VAT-39 (3F), PA-97-VAT-41 (9F), PA-97-VAT-42 (8F), PA-97-VAT-46 (103F), PA-97-VAT-48 (1F), PA-97-VAT-49 (20F), PA-99-KLK-23 (1F), PA-99-KLK-25 (3F), PA-99-VAT-20 (7F), PA-00-ATR-15 (10F); MAKANRUSHI: MK-97-BKU-97 (2F), MK-97-BKU-103 (1F), MK-97-MO-35A (15F), MK-97-MO-37A (1F), MK-97-NM-77 (8F), MK-97-TIR-49 (50F), MK-97-VAT-51 (26), MK-97-VAT-52 (35L), MK-97-VAT-53 (30F), MK-97-VAT-55 (4F); ONEKOTAN: ON-96-BKU-16 (5F), ON-96-MO-11 (30F), ON-96-PO-18 (5P), ON-96-PO-19 (24F), ON-96-PO-20 (3L 16P), ON-96-PO-21 (20F), ON-96-PO-22 (2F 1P), ON-96-PO-23 (34F), ON-96-PO-24 (5F 5L), ON-96-PO-25 (42F), ON-96-PO-26 (1F), ON-96-PO-27 (5P), ON-96-PO-43 (1F), ON-96-RLC-17 (1F), ON-96-VAT-12 (29P), ON-96-VAT-15 (78F), ON-96-VAT-16 (12L 18P), ON-96-VAT-17 (1F), ON-96-VAT-18 (5L), ON-96-VAT-19 (7L), ON-96-VAT-23 (7L), ON-96-VAT-24 (8L 3P), ON-99-BKU-04 (1F), ON-99-BKU-05 (2F), ON-99-BKU-07 (1F), ON-99-KLK-05 (1M 34F), ON-99-KLK-06 (1F), ON-99-VAT-02 (29F), ON-00-ATR-18 (2F), ON-00-ATR-19 (1F), ON-00-DJB-21C (6F); KARIMKOTAN: KH-96-BKU-36 (1M 24F), KH-96-BKU-40 (3F), KH-96-PO-36 (5M 93F), KH-96-PO-38 (35F), KH-96-VAT-21 (21L 10P), KH-96-VAT-22 (155F), KH-00-ATR-30 (6F); SHIASHKOTAN: SA-96-NM-02 (5F), SA-96-PO-46 (22F), SA-96-PO-47 (4F), SA-96-VAT-28 (8L), SA-96-VAT-29 (13F), SA-99-KLK-33 (1F), SA-99-NM-02 (5F), SA-99-VAT-26 (13F); MATUA: MA-96-NM-16 (13F), MA-96-NM-17 (13F), MA-96-PO-55 (13F), MA-96-VAT-34 (19F), MA-96-VAT-37 (12F), MA-99-KLK-36 (3F), MA-99-KLK-37 (1M 11F), MA-99-KLK-38 (5F), MA-99-VAT-29 (21F); RASSHUA: RAS-95-VAT-36 (1F); ITURUP: IT-97-NM-85 (3M 1F).
Apatania sp. EKARMA: EK-99-KLK-31 (17L).
Goera japonica URUP: UR-95-PO-09 (1L 1P); ITURUP: IT-94-RG-13 (3L), IT-94-VAT-41 (1L 3P), IT-94-VAT-43 (3L), IT-94-VAT-49 (3L), IT-95-PO-06 (1F), IT-95-VAT-04 (1M 11L), IT-95-VAT-06 (1L), IT-96-PO-69 (1M), IT-97-TIR-05 (1F), IT-98-LJW-20 (3F), IT-98-LJW-21 (2F), IT-98-LJW-22 (1M 1F), IT-98-NM-10 (1M), IT-98-NM-11 (1M), IT-98-NM-13 (2M 2F), IT-98-NM-15 (1F), IT-98-NM-16 (1F), IT-98-DJB-48 (1M), IT-98-VAT-15 (3M 2F), IT-98-VAT-21 (11M 5F), IT-98-VAT-33 (4M 2F), IT-98-VAT-46 (1F 1P); KUNASHIR: KU-94-VAT-54 (1L 2P), KU-95-PO-03 (3L), KU-95-PO-127 (1M), KU-95-VAT-01 (1L), KU-97-NM-01 (2M 16F), KU-97-NM-03 (1M 1F), KU-97-TIR-04 (2M), KU-98-LJW-01 (1M), KU-98-LJW-40 (1M), KU-98-VAT-01 (1M 1F); SHIKOTAN: SH-98-LJW-56 (1M), SH-98-VAT-49 (1M).
Neophylax japonicus KUNASHIR: KU-94-NM-08 (1L), KU-97-VAT-02 (1L).

Neophylax ussuriensis URUP: UR-95-MO-05 (12P), UR-95-MO-68 (1F), UR-95-PO-11 (1M 3L), UR-95-PO-12 (2F), UR-95-PO-13 (5P), UR-95-PO-37 (2P), UR-95-PO-106 (7M 5F), UR-95-PO-107 (2P), UR-95-PO-112 (5M 5F), UR-95-PO-118 (2M), UR-95-VT-08 (3P), UR-95-VT-10 (1F), UR-95-VT-20 (1P), UR-95-VT-23 (10P), UR-95-VT-52 (1F), UR-95-VT-53 (3P), UR-95-VT-57 (7M 9F), UR-95-VT-58 (1L 6P), UR-95-VT-60 (5M 2F), UR-95-VT-66 (3M 1F), UR-96-VT-41 (1P), UR-96-VT-42 (2P); ITURUP: IT-94-RG-11 (4P), IT-94-RG-14 (8P), IT-94-VT-34 (1L 2P), IT-94-VT-38 (1L 5P), IT-94-VT-51 (4P), IT-96-NM-19 (1M), IT-98-VT-14 (7L 1P), IT-98-VT-27 (1L 1P), IT-98-VT-30 (1M 1F), IT-98-VT-32 (5L 1P), IT-98-VT-36 (8L 1P); KUNASHIR: KU-94-NM-10 (1L), KU-94-NM-13 (2P), KU-94-VT-09 (1L), KU-94-VT-10a (15L), KU-94-VT-12 (6L, 2P), KU-94-VT-19 (2L 1P), KU-95-VT-01 (1L), KU-95-VT-69 (1L 1P), KU-97-VAT-02 (3L), KU-99-KLK-50 (1F); SHIKOTAN: SH-94-VT-29 (1P), SH-94-VT-32 (5L 3P), SH-98-LJW-54 (1F), SH-98-VT-49 (1M 2F), SH-98-VT-50 (1P).

Lepidostoma complicatum ITURUP: IT-94-VAT-06 (1M), IT-98-VAT-31 (1M); KUNASHIR: KU-94-NM-04 (2M), KU-94-NM-11 (1F), KU-94-NM-16 (1M), KU-94-VAT-07 (1M 1F), KU-94-VAT-10 (1M), KU-94-VAT-11 (1M), KU-94-VAT-20 (2F), KU-95-PO-127 (9M 2F), KU-95-PO-128 (1M), KU-95-VAT-02 (17M 1F), KU-96-NM-43 (2F), KU-97-NM-01 (8M 6F), KU-97-TIR-01 (1M), KU-97-TIR-04 (8M), KU-97-VAT-03 (2M), KU-98-LJW-03 (1L), KU-98-LJW-40 (2M 4F), KU-98-VAT-01 (19M 2F), KU-98-TIA-65 (10M 8F), KU-99-DJB-105 (2M), KU-99-KLK-50 (4M); SHIKOTAN: SH-98-LJW-46 (1F), SH-98-LJW-54 (3M 2F), SH-98-VAT-49 (1M).

Lepidostoma crassicornis URUP: UR-96-NM-24 (1M); SHIKOTAN: SH-98-VAT-42 (2M), SH-98-VAT-47 (1M).

Lepidostoma hiurai ITURUP: IT-98-LJW-16 (3M 3F), IT-98-LJW-18 (7M 1F), IT-98-LJW-19 (1F); KUNASHIR: KU-94-NM-04 (3M), KU-94-VAT-04 (6F), KU-95-PO-127 (6M 6F), KU-98-LJW-40 (1M), KU-98-TIA-65 (9F), KU-99-VAT-56 (8M 2F), KU-99-VAT-57 (1M); SHIKOTAN: SH-94-VAT-31 (1M), SH-98-VAT-42 (2M 2F); ZELIONYI: ZE-94-NM-03 (1M); TANFILYEVA: TA-98-TIA-58 (7L).

Lepidostoma stellatum PARAMUSHIR: PA-97-VAT-29 (3M 3F), PA-97-VAT-35 (1M 1F); MAKANRUSHI: MK-97-NM-73 (1F); SHIASHKOTAN: SA-99-VAT-26 (5M 2F); KETOI: KE-95-PO-63 (1M 2F), KE-95-PO-73 (8M 8F), KE-95-PO-74 (2M), KE-95-PO-79 (2M 1F), KE-95-VAT-37 (2M 3F), KE-95-VAT-47 (1F); SIMUSHIR: SI-95-MO-10 (1F), SI-95-PO-40 (2M), SI-95-PO-42 (8M 6F), SI-95-PO-43 (12M 14F), SI-95-PO-66 (1M), SI-95-PO-80 (1F), SI-95-PO-82 (1M 1F), SI-95-VAT-24 (2M), SI-95-VAT-26 (7M 3F), SI-99-VAT-40 (2M 1F); URUP: UR-95-PO-11 (1M), UR-95-VAT-11 (10M 1F), UR-95-VAT-16 (1M), UR-95-VAT-18 (1F); ITURUP: IT-94-RG-06 (8M 1F), IT-95-PO-119 (1M 2F), IT-97-NM-06 (1F), IT-97-VAT-08 (17M 7F), IT-98-LJW-27 (1M 2F), IT-98-LJW-34 (1M), IT-98-NM-24 (1M), IT-98-VAT-11 (1M), IT-98-VAT-16 (1M 1F), IT-98-VAT-28 (2M).

Molanna moesta URUP: UR-95-PO-102 (2L), UR-95-PO-113 (19M 2F), UR-95-PO-114 (2L), UR-95-VAT-54 (1M), UR-95-VAT-58 (2L); ITURUP: IT-94-RG-07 (23M 21F), IT-94-RG-11 (1M 1F), IT-94-VAT-41 (5M 1F), IT-94-VAT-47 (1F), IT-96-MO-52 (1F), IT-98-DJB-32 (1M), IT-98-DJB-34 (1F), IT-98-DJB-42 (1M), IT-98-LJW-16 (16M 3F), IT-98-LJW-19 (4M 2F), IT-98-LJW-21 (1M), IT-98-NM-06 (18M 5F), IT-98-NM-10 (2M 2F), IT-98-NM-13 (1M 1F), IT-98-NM-14 (1F), IT-98-NM-15 (3F), IT-98-NM-16 (1F), IT-98-VAT-15 (11M 3F), IT-98-VAT-17 (14M 1F), IT-98-VAT-21 (4M), IT-98-VAT-33 (2M), IT-99-KLK-43 (3M 2F), IT-99-VAT-46 (10M 6F), IT-99-VAT-50 (4M); KUNASHIR: KU-94-NM-01 (83M 13F 20L 2P), KU-94-NM-04 (1M), KU-94-NM-05 (1M), KU-94-NM-21 (13M 10L), KU-94-VAT-01 (54M 7F), KU-94-VAT-14 (1M), KU-94-VAT-55 (12M 2F), KU-95-PO-123 (45M 10F), KU-95-PO-127 (15M 4F), KU-96-PO-76 (13M), KU-98-LJW-74 (1M 1F), KU-98-LJW-75 (1F), KU-99-NM-18 (11L), KU-99-VAT-56 (44M 3F), KU-99-VAT-57 (1M); ZELIONYI: ZE-94-NM-02 (3M 2F), ZE-94-RLC-04 (2M 1F), ZE-94-VAT-24 (2M 1F), ZE-98-LJW-70 (1M 1F); TANFILYEVA: TA-98-TIA-57 (8M 4F).

Molanna submarginalis PARAMUSHIR: PA-99-KLK-22 (12M 9F), PA-99-VAT-19 (12M 6F).

Molanna sp. SHUMSHU: SU-97-NM-47 (5 cases).

Molannodes tinctus SHUMSHU: SU-97-VAT-24 (5M 5F); PARAMUSHIR: PA-96-NM-08 (6M), PA-96-NM-09 (1L).

Ceraclea alboguttata KUNASHIR: KU-95-PO-127 (1F).

Ceraclea valentinae ZELIONYI: ZE-94-VAT-27 (1M).

Mystacides azureus ITURUP: IT-98-VAT-21 (1M); KUNASHIR: KU-98-BKU-73 (1M), KU-98-DJB-79 (1F).

Mystacides pacificus URUP: UR-95-EMS-05 (1F), UR-95-PO-113 (2M 1F), UR-95-VAT-14 (1M), UR-95-VAT-65 (4M 1F); ITURUP: IT-94-RG-07 (27M 11F), IT-94-VAT-41 (21M 31F), IT-94-VAT-45 (1M), IT-94-VAT-47 (1M), IT-96-BKU-87 (7F), IT-96-NM-29 (43M 16F), IT-96-PO-69 (3F), IT-96-VAT-48 (1M), IT-96-VAT-50 (27M), IT-98-NM-16A (1M), IT-98-VAT-15 (17M 5F), IT-98-VAT-17 (36M 1F), IT-98-VAT-21 (14M 2F), IT-99-VAT-46 (20M 20F), IT-99-VAT-52 (2M 1F); KUNASHIR: KU-94-NM-01 (1M), KU-94-NM-04 (2M 2F), KU-94-NM-05 (1M), KU-94-NM-21 (37M 2F), KU-94-VAT-01 (1L), KU-94-VAT-02 (8M 8F), KU-94-VAT-03 (1L), KU-94-VAT-04 (11M 6F), KU-94-VAT-55 (29M 3F), KU-95-PO-127 (3M 1F), KU-98-BKU-73 (1F), KU-99-VAT-56 (1M 1F); ZELIONYI: ZE-94-NM-02 (2M), ZE-94-NM-05 (1F), ZE-94-RLC-04 (2M), ZE-94-VAT-21 (6M 3F), ZE-94-VAT-24 (19M 6F), ZE-94-VAT-27 (40); TANFILYEVA: TA-98-TIA-57 (1M 1F).

Oecetis morii KUNASHIR: KU-96-PO-76 (1M).

Oecetis nigropunctata PARAMUSHIR: PA-97-NM-74 (3M 3F), PA-97-VAT-29 (3M 5F); KUNASHIR: KU-94-VAT-01 (1M 1F), KU-95-PO-123 (7M 2F), KU-95-PO-127 (1M), KU-95-VR-38 (1F), KU-96-PO-76 (4M), KU-99-VAT-56 (1M); TANFILYEVA: TA-98-TIA-57 (1M).

Trienodes pellectus KUNASHIR: KU-94-NM-43 (1M), KU-97-NM-01 (2M 5F), KU-97-NM-03 (2M), KU-97-TIR-04 (2M 1F).

Trienodes unanimitis ITURUP: IT-98-VAT-17 (2M 2F), IT-98-LJW-19 (1M), IT-98-NM-10 (27M 37F); KUNASHIR: KU-98-DJB-140 (2M 2F); ZELIONYI: ZE-94-VAT-24 (1M), ZE-94-VAT-27 (1M), ZE-98-LJW-70 (1M).

Appendix II: IKIP Field Numbers and Field Data

Each IKIP field number consists of four parts: an abbreviation for the particular island, the year the collection was made, the initials of the representative collectors and the station number; for example, KU-94-NM-01 indicates that the specimens in that particular lot were collected on Kunashir in 1994 by N. Minakawa and R. I. Gara.

ATLASOVA

- AL-97-NM-53: Lake fed by Zaperty Creek, near abandoned settlement, Alaidskaya Bay; 50°49.90' N, 155°39.96' E; Aug 12, 1997; N. Minakawa.
AL-97-NM-54, 55: Zaperty Creek, near abandoned settlement, Alaidskaya Bay; 50°50.83' N, 155°39.45' E; Aug 12, 1997; N. Minakawa.
AL-97-VAT-30: Zaperty Creek near abandoned settlement, Alaidskaya Bay; Aug 12, 1997; V. A. Teslenko.
AL-97-VAT-33: Stream near Zaperty Creek and abandoned settlement, Alaidskaya Bay; 50°50.69' N, 155°39.63' E; Aug 12, 1997; V. A. Teslenko.
AL-99-KLK-07, 08: Stream near Zaperty Creek and abandoned settlement, Alaidskaya Bay; 50°50.43' N, 155°39.68' E; Jul 25, 1999; N. Minakawa, K. L. Kurowski.
AL-99-VAT-05: Lake near abandoned settlement, Alaidskaya Bay; Jul 25, 1999; V. A. Teslenko.

SHUMSHU

- SU-97-BKU-44: Top of coastal slope, first stream north of Koshkina River, about 2 km south of Pochtareva Cape; 50°49.32' N, 156°29.76' E; Aug 8, 1997; B.K. Urbain.
SU-97-BKU-50: Environs of Bolshoye Lake, along road running parallel with coastline and Bolshoye Marshland, eastern side of Cape Chibuyuni; 50°46.43' N, 156°15.34' E; Aug 9, 1997; B. K. Urbain.
SU-97-BKU-51: Environs of Bolshoye Lake, eastern side of Cape Chibuyuni; 50°46.20' N, 156°14.44' E; Aug 9, 1997; B. K. Urbain.
SU-97-BKU-60: Slope of stream valley between Cape Yudina and Luzhnanka River, Babushkina Bay; 50°39.74' N, 156°24.51' E; Aug 10, 1997; B. K. Urbain.
SU-97-MO-12A: Bolshoye Lake, eastern side of Cape Chibuyuni; 50°45.48' N, 156°15.92' E; Aug 9, 1997; M. Ohara.
SU-97-MO-17: Luzhnanka River, Babushkina Bay; 50°39.46' N, 156°25.00' E; Aug 10, 1997; M. Ohara.
SU-97-NM-30: Small pond about 0.8 km from coastline, environs of first stream north of Koshkina River, about 2 km south of Pochtareva Cape; 50°49.13' N, 156°28.93' E; Aug 8, 1997; N. Minakawa.
SU-97-NM-32, 35: Small pond about 1 km from coastline, environs of first stream north of Koshkina River, about 2 km south of Pochtareva Cape; 50°49.21' N, 156°28.70' E; Aug 8, 1997; N. Minakawa.
SU-97-NM-34: Small stream about 0.4 km from coastline, first stream from north of Koshkina River, about 2 km south of Pochtareva Cape; 50°49.17' N, 156°29.43' E; Aug 8, 1997; N. Minakawa.
SU-97-NM-37: Small stream about 1.3 km from coastline, first stream from north of Koshkina River, about 2 km south of Pochtareva Cape; 50°49.22' N, 156°28.53' E; Aug 8, 1997; N. Minakawa.
SU-97-NM-39: Meadow about 1.6 km from coastline, environs of first stream from north of Koshkina River, about 2 km south of Pochtareva Cape; 50°50.06' N, 156°29.17' E; Aug 8, 1997; N. Minakawa.
SU-97-NM-41: About 3.2 km upriver along floodplain inland from eastern side of Cape Chibuyuni, environs of Bolshoye Lake; 50°45.72' N, 156°17.84' E; Aug 9, 1997; N. Minakawa.
SU-97-NM-42: Headwater stream between Cape Yudina and Luzhnanka River, about 1.5 km inland from Babushkina Bay; 50°40.20' N, 156°23.98' E; Aug 10, 1997; N. Minakawa.
SU-97-NM-44: Stream between Cape Yudina and Luzhnanka River inland from Babushkina Bay; 50°39.78' N, 156°24.45' E; Aug 10, 1997; N. Minakawa.
SU-97-NM-46, 47: Lake about 1 km inland from Babushkina Bay, between Cape Yudina and Luzhnanka River; 50°40.03' N, 156°24.13' E; Aug 10, 1997; N. Minakawa.
SU-97-NM-49: Small ponds between Cape Yudina and Luzhnanka River, about 1.6 km inland from Babushkina Bay; 50°40.16' N, 156°23.80' E; Aug 10, 1997; N. Minakawa.
SU-97-NM-56: Stream about 3 km inland from eastern side of Cape Chibuyuni, environs of Bolshoye Lake; 50°45.70' N, 156°17.64' E; Aug 9, 1997; N. Minakawa.
SU-97-RLC-30: 3 km northeast of Bolshoye Lake at far edge of flat marshy area, beginning of slope up to hills, eastern side of Cape Chibuyuni; 50°46.66' N, 156°17.00' E; Aug 9, 1997; R.L. Crawford.
SU-97-TIR-27: A series of pools about 500 m upriver about 2 km south of Pochtareva Cape, environs of first river north of Koshkina River; Aug 8, 1997; T.I. Ritchie.
SU-97-TIR-28: Small lake about 2 km upriver, first river north of Koshkina River, about 2 km south of Pochtareva Cape; 50°49.20' N, 156°28.79' E; Aug 8, 1997; T.I. Ritchie.
SU-97-TIR-29: Small pond in river valley near Bolshoye Lake, eastern side of Cape Chibuyuni; 50°45.88' N, 156°15.94' E; Aug 9, 1997; T.I. Ritchie.
SU-97-TIR-30: Small ponds upriver from Bolshoye Lake at start of foothills inland from eastern side of Cape Chibuyuni; 50°45.85' N, 156°16.55' E; Aug 9, 1997; T.I. Ritchie.
SU-97-TIR-31: Small ponds upriver from Bolshoye Lake at start of foothills inland from eastern side of Cape Chibuyuni; 50°45.55' N, 156°17.36' E; Aug 9, 1997; T.I. Ritchie.
SU-97-TIR-32: Small ponds upriver from Bolshoye Lake at start of foothills inland from eastern side of Cape Chibuyuni; 50°45.70' N, 156°17.64' E; Aug 9, 1997; T.I. Ritchie, N. Minakawa.
SU-97-TIR-33: Luzhnanka River about 2 km Babushkina Bay; 50°39.84' N, 156°22.15' E; Aug 10, 1997; T.I. Ritchie.

- SU-97-TWP-21: Slope above ponds in environs of first river north of Koshkina River, about 2 km south of Pochtareva Cape; 50°49.14' N, 156°29.34' E; Aug 8, 1997; T.W. Pietsch.
- SU-97-VAT-13: Stream north of Koshkina River, about 2 km south of Pochtareva Cape; 50°49.48' N, 156°29.48' E; Aug 7, 1997; V. A. Teslenko.
- SU-97-VAT-14: Bog about 2 km south of Pochtareva Cape, environs of first river north of Koshkina River; 50°49.17' N, 156°29.43' E; Aug 8, 1997; V. A. Teslenko.
- SU-97-VAT-15: Bog about 2 km south of Pochtareva Cape, environs of first river north of Koshkina River; 50°48.44' N, 156°29.46' E; Aug 8, 1997; V. A. Teslenko.
- SU-97-VAT-16, 17: First stream north of Koshkina River, about 2 km south of Pochtareva Cape, near bunker; 50°49.30' N, 156°30.16' E; Aug 8, 1997; V. A. Teslenko.
- SU-97-VAT-18: First stream north of Koshkina River, about 2 km south of Pochtareva Cape; 50°49.48' N, 156°29.48' E; Aug 8, 1997; V. A. Teslenko.
- SU-97-VAT-20: Bolshoye Lake, eastern side of Cape Chibuynyi; Aug 9, 1997; V. A. Teslenko.
- SU-97-VAT-21: Stream about 2 km from mouth, eastern side of Cape Chibuynyi, environs of Bolshoye Lake; Aug 9, 1997; V. A. Teslenko.
- SU-97-VAT-22: Bog by road between lake and Vasenya River, inland from eastern side of Cape Chibuynyi, environs of Bolshoye Lake; Aug 9, 1997; V. A. Teslenko.
- SU-97-VAT-23: Tributary of Vasenya River inland from eastern side of Cape Chibuynyi, environs of Bolshoye Lake; Aug 9, 1997; V. A. Teslenko.
- SU-97-VAT-24: Ponds near Luzhnanka River, Babushkina Bay; Aug 10, 1997; V. A. Teslenko.
- SU-97-VAT-25: Ponds 2 km from tributary of Luzhnanka River, Babushkina Bay; Aug 10, 1997; V. A. Teslenko.
- SU-97-VAT-27: Stream 300 m from mouth north of cape in Babushkina Bay, environs of Luzhnanka River; Aug 10, 1997; V. A. Teslenko.
- SU-99-BKU-35: Coastal meadow, eastern side of Cape Chibuynyi, environs of Bolshoye Lake; 50°46.32' N, 156°15.46' E; Jul 31, 1999; B. K. Urbain.
- SU-99-BKU-36: Stretch of road that is parallel with coastline and adjacent to Bolshoye Lake, eastern side of Cape Chibuynyi; 50°46.32' N, 156°15.46' E; Jul 31, 1999; B. K. Urbain.
- SU-99-DJB-27: Inland from Baykoua Village, Jul 29, 1999; D. J. Bennett.
- SU-99-DJB-40A: Bluff over pond, environs of Bolshoye Lake; 50°45.88' N, 156°14.46' E; Jul 31, 1999; D. J. Bennett.
- SU-99-KLK-20: Swamps and lakes, about 6 km inland from Baykoua Village; 50°41.07' N, 156°15.58' E; Jul 29, 1999; N. Minakawa, K. L. Kurowski.
- SU-99-KLK-26, 27: Swamps, inland from east of Cape Chibuynyi, environs of Bolshoye Lake and Bolshoye River; 50°46.68' N, 156°16.66' E; Jul 31, 1999; N. Minakawa, K. L. Kurowski.
- SU-99-KLK-28: Stream, inland from east of Cape Chibuynyi, environs of Bolshoye Lake and Bolshoye River; 50°46.47' N, 156°16.92' E; Jul 31, 1999; N. Minakawa, K. L. Kurowski.
- SU-99-KLK-29, 30: Stream, inland from east of Cape Chibuynyi, environs of Bolshoye Lake and Bolshoye River; 50°45.71' N, 156°17.07' E; Jul 31, 1999; N. Minakawa, K. L. Kurowski.
- SU-99-VAT-16: Small lake 8 km southeast from Baykoua Village; 50°42.29' N, 156°12.43' E; Jul 29, 1999; V. A. Teslenko.
- SU-99-VAT-23: Vesennyaya River, about 1.5 km from mouth, Bolshoye Bight; 50°44.62' N, 156°15.30' E; Jul 31, 1999; V. A. Teslenko.
- SU-99-VAT-25: Western part of Bolshoye Lake; 50°45.32' N, 156°15.05' E; Jul 31, 1999; V. A. Teslenko.
- SU-00-ATR-07: South of Baykovo Bay towards Bol'shoeye Lake, upstream from valley in a small ravine with many mine shafts; 50°42.97' N, 156°12.29' E; July 24, 2000; T. R. Anderson.
- SU-00-ATR-08: South of Baykovo Bay towards Bol'shoeye Lake, above ravine with mine shafts on top of ridge; 50°42.97' N, 156°12.29' E; July 24, 2000; T. R. Anderson.
- SU-00-ATR-11: In ravine heading south and west towards Baykovo Bay (inland from mine shafts); 50°42.97' N, 156°12.29' E; Jul 24, 2000; T. R. Anderson.
- SU-00-DJB-10, 10A: Inland from Baykovo Bay, upstream from valley, near stream bank between valley walls; 50°42.97' N, 156°12.29' E; Jul 24, 2000; D. J. Bennett.
- SU-00-DJB-12: Inland from Baykovo Bay, on terrace, inland from stream valley; 50°42.97' N, 156°12.29' E; Jul 24, 2000; D. J. Bennett.

PARAMUSHIR

- PA-96-BKU-13: Coastal grassland, near Russian military watch tower, western base of Vasil'Yeva Peninsula; 50°02.87' N, 155°23.46' E; Aug 3, 1996; B. K. Urbain.
- PA-96-BKU-15: Western shore of Pernatoye Lake, inland from western base of Vasilyeva Peninsula; 50°02.96' N, 155°22.92' E; Aug 3, 1996; B. K. Urbain.
- PA-96-MO-01: Utesnyi River; 50°37.73' N, 156°08.21' E; Aug 1, 1996; M. Ohara.
- PA-96-MO-03: Utesnyi River, 200 m from mouth; 50°37.65' N, 156°08.13' E; Aug 1, 1996; M. Ohara.
- PA-96-MO-06: Pond on Vasilyeva Peninsula; 50°01.41' N, 155°23.92' E; Aug 3, 1996; M. Ohara.
- PA-96-MO-09: Near Pernatoye Lake, Vasilyeva Bay; 50°02.37' N, 155°23.34' E; Aug 3, 1996; M. Ohara.
- PA-96-NM-02, 03: Bolsheva River, Vasilyeva Bay; 50°02.59' N, 155°22.54' E; Aug 3, 1996; N. Minakawa.
- PA-96-NM-04: Southwest shore of Pernatoye Lake, Vasilyeva Bay; 50°02.50' N, 155°23.20' E; Aug 3, 1996; N. Minakawa.
- PA-96-NM-07: Small pond about 100 m south of Pernatoya Lake, Vasilyeva Bay; 50°02.37' N, 155°23.34' E; Aug 3, 1996; N. Minakawa.
- PA-96-NM-08, 09: Small pond on Vasilyev Peninsula; 50°02.30' N, 155°23.61' E; Aug 3, 1996; N. Minakawa.

PA-96-PO-01, 02: Small pond 200 m north of Utyosnaya River, about 1 km inland from sea; 50°37.85' N, 156°07.46' E; Aug 1, 1996; P. Oberg, N. Minakawa.

PA-96-PO-03: Small pond 300 m north of Utyosnaya River, about 1 km inland from sea; 50°37.87' N, 156°07.32' E; Aug 1, 1996; P. Oberg, N. Minakawa.

PA-96-PO-05: Large pond 100 m north of Utyosnaya River, about 1 km inland from sea; 50°37.83' N, 156°07.37' E; Aug 1, 1996; N. Minakawa.

PA-96-PO-07: Utyosnaya River, 1.5 km inland from sea; 50°37.72' N, 156°07.29' E; Aug 1, 1996; P. Oberg, N. Minakawa.

PA-96-PO-09: Large pond, 300m east of Pernatoye Lake on Vasiljeva Peninsula; 50°02.68' N, 155°24.04' E; Aug 3, 1996; P. Oberg.

PA-96-RLC-04: Small pond in valley of Utyosnaya River; 50°37.78' N, 156°07.45' E; Aug 1, 1996; R.L. Crawford.

PA-96-VAT-01: Small pond by Utyosnaya River, 300 - 500 m from mouth; Aug 1, 1996; V. A. Teslenko.

PA-96-VAT-02, 03: Small stream on Utyosnaya Slope, about 1 km from sea; Aug 1, 1996; V. A. Teslenko.

PA-96-VAT-04, 05: Utyosnaya River, about 1.2 km from mouth; 50°37.87' N, 156°07.32' E; Aug 1, 1996; V. A. Teslenko.

PA-96-VAT-06: Small tributary of Bolshaya River, 500 m from mouth, Vasilyeva Bay; Aug 3, 1996; V. A. Teslenko.

PA-96-VAT-07, 08: Small tributary of Bolshaya River, 600 m from mouth, Vasilyeva Bay; Aug 3, 1996; V. A. Teslenko.

PA-96-VAT-09: Pernatoye Lake, Vasilyeva Bay; 50°02.37' N, 155°23.34' E; Aug 3, 1996; V. A. Teslenko.

PA-96-VAT-10: Small stream about 300 m west from Pernatoye Lake, Vasilyeva Bay; 50°02.37' N, 155°23.34' E; Aug 3, 1996; V. A. Teslenko.

PA-96-VAT-11: Small pond on Vasilyeva Peninsula; 50°02.30' N, 155°23.61' E; Aug 3, 1996; V. A. Teslenko.

PA-97-BKU-31, 33: South of lake fed by Savushkina River, near Putyatino settlement, between coastline and road; 50°44.19' N, 156°08.82' E; Aug 4, 1997; B. K. Urbain.

PA-97-BKU-70: Near Shelekhoya River and Shelekhoya settlement, on coastal plateau inland from Shelekhoya Bay; 50°22.31' N, 155°36.05' E; Aug 13, 1997; B. K. Urbain.

PA-97-BKU-72, 73: Near Shelekhoya River and Shelekhoya settlement, along coastal slope at steep exposed area, near stream, with protruding wet rocks, inland from Shelekhoya Bay; 50°22.26' N, 155°36.17' E; Aug 13, 1997; B. K. Urbain.

PA-97-BKU-77: Near Krasheninnikova River, along coastal terrace, inland from Krasheninnikova Bay; 50°16.87' N, 155°20.43' E; Aug 14, 1997; B. K. Urbain.

PA-97-BKU-87: Near small lake next to Lake Pernatoye, around abandoned buildings, inland from western base of Vasil' Yeva Peninsula; 50°02.82' N, 155°24.04' E; Aug 16, 1997; B. K. Urbain.

PA-97-DES-43: Coastal meadow, western base of Vasil' Yeva Peninsula; 50°01.09' N, 155°23.71' E; Aug 16, 1997; D. E. Stevenson.

PA-97-MO-06A: Grassland near center of town of Severo-Kurilsk; 50°40.35' N, 156°08.47' E; Aug 4, 1997; M. Ohara.

PA-97-MO-25A: Near Shelekhoya River and Shelekhoya settlement, Shelekhoya Bay; 50°22.50' N, 155°35.50' E; Aug 13, 1997; M. Ohara.

PA-97-MO-26A: Near Krasheninnikova River, Krasheninnikova Bay; 50°16.62' N, 155°20.72' E; Aug 14, 1997; M. Ohara.

PA-97-MO-29: Grassland, western base of Vasil' Yeva Peninsula; 50°03.18' N, 155°25.24' E; Aug 16, 1997; M. Ohara.

PA-97-MO-33A: Grassland, inland from eastern Tukharaka Bay; 50°11.06' N, 155°39.15' E; Aug 17, 1997; M. Ohara.

PA-97-MO-34: Grassland, inland from eastern Tukharaka Bay; 50°11.06' N, 155°38.64' E; Aug 17, 1997; M. Ohara.

PA-97-NM-22: Lake fed by Savushkina River, near Putyatino settlement on shore; 50°44.33' N, 156°08.71' E; Aug 4, 1997; N. Minakawa.

PA-97-NM-50: Utyosnaya River, Utyosnaya Bay; 50°37.81' N, 156°06.93' E; Aug 11, 1997; N. Minakawa.

PA-97-NM-52: Ponds in valley of Utyosnaya River, Utyosnaya Bay; 50°37.82' N, 156°07.43' E; Aug 11, 1997; N. Minakawa.

PA-97-NM-57: Stream south of Shelekhoya River and near Shelekhoya settlement, Shelekhoya Bay; 50°22.19' N, 155°36.15' E; Aug 13, 1997; N. Minakawa.

PA-97-NM-59: Stream south of Shelekhoya River and near Shelekhoya settlement, Shelekhoya Bay; 50°22.08' N, 155°36.47' E; Aug 13, 1997; N. Minakawa.

PA-97-NM-62: Stream near Krasheninnikova River, Krasheninnikova Bay; 50°16.06' N, 155°19.90' E; Aug 14, 1997; N. Minakawa.

PA-97-NM-65: Pond near Krasheninnikova River, inland from Krasheninnikova Bay; 50°15.81' N, 155°20.04' E; Aug 14, 1997; N. Minakawa.

PA-97-NM-72: Pond 200-300 m inland from western base of Vasilyeva Peninsula; 50°01.40' N, 155°24.03' E; Aug 16, 1997; N. Minakawa.

PA-97-NM-73: Stream that flows into eastern Tukharaka Bay; 50°10.88' N, 155°38.89' E; Aug 17, 1997; N. Minakawa.

PA-97-NM-74: Lake about 300 m inland from eastern Tukharaka Bay; 50°11.28' N, 155°38.06' E; Aug 17, 1997; N. Minakawa.

PA-97-RLC-15: Lake fed by Savushkina River, near Putyatino settlement on coast; 50°44.08' N, 156°08.10' E; Aug 4, 1997; R. L. Crawford.

PA-97-RLC-60: Near tributary feeding Bolshaya River from east, inland from western base of Vasil' Yeva Peninsula; 50°03.20' N, 155°21.52' E; Aug 16, 1997; R. L. Crawford.

PA-97-RLC-63: Flat valley bottom immediately north and slightly upslope of Pernatoye Lake, near meandering stream, inland from western base of Vasil' Yeva Peninsula; 50°02.86' N, 155°22.64' E; Aug 16, 1997; R. L. Crawford.

PA-97-TIR-15, 17: Lake fed by Savushkina River, near Putyatino settlement on coast, around bridge; 50°43.92' N, 156°08.24' E; Aug 4, 1997; T. I. Ritchie.

PA-97-TIR-19: Lake fed by Savushkina River, near Putyatino settlement on coast, edge of lake; 50°44.24' N, 156°08.83' E; Aug 4, 1997; T. I. Ritchie.

PA-97-TIR-36: Bog south of Lagernoye plateau in environ of Cape Ozernyi; 50°35.97' N, 156°09.66' E; Aug 11, 1997; T. I. Ritchie.

PA-97-TIR-37: About 1 km from mouth of Severyanka River, south of Cape Ozernyi; 50°35.31' N, 156°08.72' E; Aug 11, 1997; T. I. Ritchie.

PA-97-TIR-45: Tributary of Krashennikova River about 200 m inland from Krashennikova Bay; 50°16.88' N, 155°20.93' E; Aug 14, 1997; T. I. Ritchie.

PA-97-TIR-48: Small pond western base of Vasil'Yeva Peninsula; 50°03.07' N, 155°24.66' E; Aug 16, 1997; T. I. Ritchie.

PA-97-VAT-09, 10: Lake fed by Savushkina River, near Putyatino settlement on shore; 50°43.92' N, 156°08.24' E; Aug 4, 1997; V. A. Teslenko.

PA-97-VAT-29: Tributary of Utyosnaya River about 1 km from mouth, Utyosnaya Bay; Aug 11, 1997; V. A. Teslenko.

PA-97-VAT-35, 36: Stream with waterfall, Shelekhoya River and Shelekhoya settlement, Shelekhoya Bay; Aug 13, 1997; V. A. Teslenko.

PA-97-VAT-37: Tributary of Krashennikova River, Krashennikova Bay; 50°16.91' N, 155°21.47' E; Aug 14, 1997; V. A. Teslenko.

PA-97-VAT-39: Small stream between Krashennikova River and Alenushkina River, Krashennikova Bay; Aug 14, 1997; V. A. Teslenko.

PA-97-VAT-41: Mouth of Krashennikova River, Krashennikova Bay; 50°16.55' N, 155°20.37' E; Aug 14, 1997; V. A. Teslenko.

PA-97-VAT-42: Forelnyi Stream, 800 m from mouth, east of Cape Kapustnyi; Aug 15, 1997; V. A. Teslenko.

PA-97-VAT-44: Small pond near light house, east of Cape Kapustnyi; Aug 15, 1997; V. A. Teslenko.

PA-97-VAT-45: Lake about 1 km north of light house, east of Cape Kapustnyi; Aug 15, 1997; V. A. Teslenko.

PA-97-VAT-46: About 1 km from mouth of Shikshanka River, western base of Vasil'Yeva Peninsula; Aug 16, 1997; V. A. Teslenko.

PA-97-VAT-48: Pond (drying), western base of Vasil'Yeva Peninsula; Aug 16, 1997; V. A. Teslenko.

PA-97-VAT-49: Small stream near Baklanyi Rocks, eastern Tukharaka Bay; Aug 17, 1997; V. A. Teslenko.

PA-99-BKU-32: Near two lakes northeast of Medvezhiya River, inland from Rifovaya Bay; 50°29.75' N, 156°05.73' E; Jul 30, 1999; B. K. Urbain.

PA-99-KLK-21, 22: Swamps inland from Rifovaya Bay; 50°29.57' N, 156°05.58' E; Jul 30, 1999; N. Minakawa, K. L. Kurowski.

PA-99-KLK-23: Ponds near Medvezhiya River inland from Rifovaya Bay; 50°29.62' N, 156°04.92' E; Jul 30, 1999; N. Minakawa, K. L. Kurowski.

PA-99-KLK-25: Stream near Medvezhiya River inland from Rifovaya Bay; 50°29.62' N, 156°06.64' E; Jul 30, 1999; N. Minakawa, K. L. Kurowski.

PA-99-VAT-10: Meadow near Severo-Kurilsk; Jul 26, 1999; A. Lelej.

PA-99-VAT-19: Small lake northeast of Melkoye Lake, Pujshariya Bight, Rifovaya Bay; 50°29.57' N, 156°05.43' E; Jul 30, 1999; V. A. Teslenko.

PA-99-VAT-20: Stream near Rofovyi Cape, Pujshariya Bight, Rifovaya Bay; 50°29.66' N, 156°06.70' E; Jul 30, 1999; V. A. Teslenko.

PA-00-ATR-13: Inland from eastern side of Vasil'yeva Bay; 50°01.62' N, 155°23.82' E; Jul 25, 00; T. R. Anderson.

PA-00-ATR-15, 16: Inland from eastern side of Vasil'yeva Bay, from the southwest side of Lake Pernatoye around to north side of the lake; 50°02.83' N, 155°22.84' E; Jul 25, 00; T. R. Anderson.

PA-00-DJB-16, 17: Inland from eastern side of Vasil'yeva Bay; 50°01.62' N, 155°23.82' E; Jul 25, 2000; D. J. Bennett.

MAKANRUSHI

MK-97-BKU-94: Northwestern edge of big coastal marshland, at base of foothills, inland from Aakat Bay; 49°44.29' N, 154°25.09' E; Aug 18, 1997; B. K. Urbain.

MK-97-BKU-97: Northwestern edge of big coastal marshland, at base of foothills, inland from Aakat Bay; 49°44.28' N, 154°25.20' E; Aug 18, 1997; B. K. Urbain.

MK-97-BKU-103: Southeastern facing steep slope, inland from Aakat Bay; 49°44.51' N, 154°24.99' E; Aug 18, 1997; B. K. Urbain.

MK-97-MO-35A: Grassland, inland from Aakat Bay; 49°44.21' N, 154°25.19' E; Aug 18, 1997; M. Ohara.

MK-97-MO-37A: Grassland, inland from Aakat Bay; 49°44.34' N, 154°25.71' E; Aug 18, 1997; M. Ohara.

MK-97-NM-77: Stream near Pit'yevoy River about 2 km inland from Aakat Bay; 49°44.63' N, 154°25.74' E; Aug 18, 1997; N. Minakawa.

MK-97-TIR-49: Small stream, base of foothills that flows into Aakat Bay; 49°44.27' N, 154°25.24' E; Aug 18, 1997; T. I. Ritchie.

MK-97-VAT-51, 52: Godnyi Creek about 1.5 km above from waterfall, inland from Aakat Bay; Aug 18, 1997; V. A. Teslenko.

MK-97-VAT-53: Godnyi Creek about 1.0 km above from waterfall, inland from Aakat Bay; Aug 18, 1997; V. A. Teslenko.

MK-97-VAT-55: Small pond near Aakat Bay, north of Aakat Bight; Aug 18, 1997; V. A. Teslenko.

ONEKOTAN

ON-96-BKU-16: South slope of a river valley inland from Nemo Bay; 49°36.68' N, 154°48.97' E; Aug 4, 1996; B. K. Urbain.

ON-96-MO-11: Coastal margin of Nemo Bay; 49°36.62' N, 154°49.40' E; Aug 4, 1996; M. Yabe.

ON-96-PO-13, 14: Pond (sink holes) on plateau about 2 km from Nemo Bay; 49°36.30' N, 154°50.33' E; Aug 4, 1996; P. Oberg, N. Minakawa.

ON-96-PO-15, 16: 2 small ponds on the plateau about 2.5 km from Nemo Bay; 49°36.31' N, 154°50.39' E; Aug 4, 1996; P. Oberg, N. Minakawa.

ON-96-PO-18: A series of ponds (sink holes) in drainage area, about 4.2 km inland from Nemo Bay, headwaters for the stream that flows into Nemo Bay; 49°35.66' N, 154°51.55' E; Aug 4, 1996; P. Oberg, N. Minakawa.

ON-96-PO-19, 20: Stream that flows into Nemo Bay, about 100 m from mouth of the stream, north of Lake Chyornoye; 49°36.61' N, 154°49.51' E; Aug 4, 1996; P. Oberg, N. Minakawa.

ON-96-PO-21, 22: Stream, about 1 km south of Cape Subbotina; 49°23.84' N, 154°38.67' E; Aug 5, 1996; P. Oberg, N. Minakawa.

ON-96-PO-23, 24: Waterfall, about 1 km south of Cape Subbotina; 49°24.33' N, 154°38.88' E; Aug 5, 1996; P. Oberg.

ON-96-PO-25: Stream 1 km south of Cape Subbotina; 49°24.06' N, 154°38.65' E; Aug 5, 1996; P. Oberg, N. Minakawa.

ON-96-PO-26, 27: Stream just north of Resvyi River, that flows into Mussel Bay, between Mussel Point and Lisiy Point, about 500 m inland from the bay; 49°23.56' N, 154°49.08' E; Aug 7, 1996; N. Minakawa.

ON-96-PO-30: Ponds on plateau north of Resvyi River, about 4 km inland from Lisiy Point; 49°23.89' N, 154°48.69' E; Aug 7, 1996; N. Minakawa.

ON-96-PO-43: Trudnyi River, about 2 km from mouth, southern Onekotan; 49°16.76' N, 154°45.02' E; Aug 9, 1996; P. Oberg, N. Minakawa.

ON-96-VAT-12: Stream that flows into Nemo Bay, 300 m from the mouth; Aug 4, 1996; V. A. Teslenko.

ON-96-VAT-14: Small pond on the right side of the stream that flows into Nemo Bay, about 300 m from the bay; Aug 4, 1996; V. A. Teslenko.

ON-96-VAT-15: Waterfall about 2 km to the south of Subbotina Cape; Aug 5, 1996; V. A. Teslenko.

ON-96-VAT-16: Stream about 2 km to the south of Subbotina Cape; 49°23.84' N, 154°38.67' E; Aug 5, 1996; V. A. Teslenko.

ON-96-VAT-17, 18: Stream north of Resvyi River, Mussel Bay; 49°23.56' N, 154°49.08' E; Aug 7, 1996; V. A. Teslenko.

ON-96-VAT-19, 20: Small pond on the trail to Lisiy Cape, from Mussel Bay; Aug 7, 1996; V. A. Teslenko.

ON-96-VAT-23, 24: Trudnyi River, south part of Onekotan; 49°16.49' N, 154°45.04' E; Aug 9, 1996; V. A. Teslenko.

ON-96-RLC-17: Stabilized dune meadow inland near river, Nemo Bay; 49°36.83' N, 154°49.11' E; Aug 4, 1996; R. L. Crawford.

ON-96-RLC-26: Rezvyi River, in river valley bottom near abandoned army base; 49°23.76' N, 154°48.54' E; Aug 7, 1996; R. L. Crawford.

ON-99-BKU-04: Northern slopes (via narrow foot-trail) which lead up to Lake Chernoye, Nemo Bay; 49°36.51' N, 154°49.85' E; Jul 23, 1999; B. K. Urbain.

ON-99-BKU-05, 07: Northern slopes (via narrow foot-trail) which lead up to Lake Chernoye, Nemo Bay; 49°36.56' N, 154°49.70' E; Jul 23, 1999; B. K. Urbain.

ON-99-DJB-07: Plateau between Lake Chernoye and stream that flows into Nemo Bay; 49°36.18' N, 154°49.67' E; Jul 24, 1999; D. J. Bennett.

ON-99-KLK-04: Pond on plateau, inland from Nemo Bay; 49°36.10' N, 154°49.71' E; Jul 24, 1999; N. Minakawa, K. L. Kurowski.

ON-99-KLK-05: Chernoye Lake, inland of Nemo Bay; 49°35.50' N, 154°48.87' E; Jul 24, 1999; N. Minakawa, K. L. Kurowski.

ON-99-KLK-06: 2 ponds on the plateau, inland from Nemo Bay; 49°36.04' N, 154°49.78' E; Jul 24, 1999; N. Minakawa, K. L. Kurowski.

ON-99-VAT-02: Northwest part of Lake Chernoye Lake, Nemo Bay; 49°35.50' N, 154°48.87' E; Jul 24, 1999; V. A. Teslenko.

ON-00-ATR-18: Inland of Nemo Bay, south hillside of river valley; 49°36.61' N, 154°49.21' E; July 27, 2000; T. R. Anderson.

ON-00-ATR-19: Inland and a little south of Nemo Bay, atop ridge on flat terrace overlooking bay; 49°36.57' N, 154°49.24' E; July 27, 2000; T. R. Anderson.

ON-00-DJB-21C: Inland from Nemo Bay, near river mouth just inland from beach extending up slopes to terrace margin over valley; 49°36.62' N, 154°49.21' E; July 27, 2000; D. J. Bennett.

ON-00-DJB-22C: Inland and south of Nemo Bay, between west end of Lake Chernoye and coast; 49°36.62' N, 154°49.21' E; July 27, 2000; D. J. Bennett.

KHARIMKOTAN

KH-96-BKU-36: Mouth of coastal stream in Severgina Bay; 49°09.79' N, 154°29.25' E; Aug 8, 1996; B. K. Urbain.

KH-96-BKU-40: Atop first coastal plateau inland from Severgina Bay; 49°09.65' N, 154°29.27' E; Aug 8, 1996; B. K. Urbain.

KH-96-PO-32: Lake about 2km inland from Severgina Bay, between bay and Lake Lazurnoye; 49°09.49' N, 154°28.24' E; Aug 8, 1996; P. Oberg, N. Minakawa.

KH-96-PO-34: Pond amongst ridges about 3 km inland from Severgina Bay, between bay and Lake Lazurnoye; 49°09.35' N, 154°27.98' E; Aug 8, 1996; P. Oberg, N. Minakawa.

KH-96-PO-36, 37: Stream that flows into Severgina Bay; 49°09.79' N, 154°29.25' E; Aug 8, 1996; N. Minakawa.

KH-96-PO-38: Stream that flows into Severgina Bay; 49°09.55' N, 154°29.54' E; Aug 8, 1996; P. Oberg.

KH-96-PO-39: Stream that flows into northern end of Severgina Bay, north of former settlement in the bay; 49°09.65' N, 154°30.19' E; Aug 8, 1996; P. Oberg.

KH-96-PO-41: Pond 200 m inland from Severgina Bay, and north of former settlement in the bay; 49°09.66' N, 154°30.08' E; Aug 8, 1996; P. Oberg, A. Lopez.

KH-96-VAT-21, 22: Stream that flows into Severgina Bay; 49°09.63' N, 154°29.23' E; Aug 8, 1996; V. A. Teslenko.

KH-00-ATR-30: Near lakeshore of Lake Lazurnoye; 49°08.75' N, 154°27.64' E; Jul 28, 2000; T. R. Anderson.

KH-00-DJB-30: Northwestern part of island, environs surrounding Lake Lazurnoye, on hillside, upslope from coastal lake towards volcano; 49°08.93' N, 154°28.09' E; Jul 28, 2000; D. J. Bennett.

KH-00-DJB-31: Northwestern part of island, environs surrounding Lake Lazurnoye, valley on north side of volcano leading into coastal lake- transect; Jul 28, 2000; D. J. Bennett.

EKARMA

EK-99-KLK-31: Small coastal stream by shore, west of Cape Lyutyi; Aug 1, 1999; K. L. Kurowski.

SHIASHKOTAN

SA-96-NM-11: Pond (sink holes) on the plateau about 1.5 km inland Zakatnaya Bay; 48°46.45' N, 154°01.18' E; Aug 12, 1996; N. Minakawa.

SA-96-NM-13: Stream on the north slope of Mt. Kuntominter Zakatnaya Bay; 48°46.40' N, 154°01.13' E; Aug 12, 1996; N. Minakawa.

SA-96-NM-14: Stream on the north slope of Mt. Kuntominter Zakatnaya Bay; 48°46.59' N, 154°02.41' E; Aug 12, 1996; N. Minakawa.

SA-96-PO-46, 47: Small waterfall that flows into Zakatnaya Bay; 48°46.96' N, 154°02.66' E; Aug 11, 1996; P. Oberg, N. Minakawa.

SA-96-PO-48: Small ponds (sink holes) on the plateau inland from Zakatnaya Bay; 48°46.80' N, 154°02.07' E; Aug 11, 1996; P. Oberg, N. Minakawa.

SA-96-PO-50, 51: 3 large ponds on the plateau about 1 km inland from Zakatnaya Bay; 48°46.69' N, 154°01.99' E; Aug 11, 1996; P. Oberg.

SA-96-PO-53: Stream section about 1.5 km upstream from waterfall, Zakatnaya Bay; 48°46.46' N, 154°02.62' E; Aug 12, 1996; P. Oberg.

SA-96-VAT-28, 29, 30: Stream section above waterfall, Zakatnaya Bay, about 3 km east of Grotovyi Cape; Aug 11, 1996; V. A. Teslenko.

SA-96-VAT-31, 32: Small pond by trail to waterfall, west side of Grotovyi cape, Zakatnaya Bay; Aug 12, 1996; V. A. Teslenko.

SA-99-KLK-32, 33: Stream above coastal waterfall north of Cape Obvalinyi; 48°46.27' N, 154°03.95' E; Aug 2, 1999; N. Minakawa, K. L. Kurowski.

SA-99-NM-02: Stream above coastal waterfall north of Cape Obvalinyi; 48°45.94' N, 154°03.92' E; Aug 2, 1999; N. Minakawa.

SA-99-VAT-26: Coastal stream north of Cape Obvalinyi; 48°46.31' N, 154°04.06' E; Aug 2, 1999; V. A. Teslenko.

SA-00-ATR-39: Inland from southern part of Zakatnaya Bay, west of landing site, plateau above beach bounded by mountains to the south and cliffs to the north; 48°46.83' N, 154°01.85' E; Jul 29, 2000; T. R. Anderson.

SA-00-ATR-42: Inland from southern part of Zakatnaya Bay, plateau west of Zakatnaya Bay, on the edge of a small ravine; 48°46.77' N, 154°01.99' E; Jul 29, 2000; T. R. Anderson.

SA-00-DJB-33: Inland from southern part of Zakatnaya Bay, on terrace west of the landing site; 48°46.83' N, 154°01.85' E; Jul 29, 2000; D. J. Bennett.

SA-00-DJB-36: Inland from southern part of Zakatnaya Bay, on terrace above landing site, to the west; 48°46.80' N, 154°01.95' E; Jul 29, 2000; D. J. Bennett.

MATUA

MA-96-NM-16: Small coastal stream that flows into Yamato Bay; 48°03.17' N, 153°15.53' E; Aug 15, 1996; N. Minakawa.

MA-96-NM-17: Small coastal stream that flows into Yamato Bay; 48°03.19' N, 153°15.49' E; Aug 15, 1996; N. Minakawa.

MA-96-PO-55: Pond about 500 m inland from Ainu Bay; 48°03.39' N, 153°14.38' E; Aug 14, 1996; P. Oberg.

MA-96-VAT-34: Small pond about 0.5 km from Ainu Bay; 48°03.39' N, 153°14.38' E; Aug 14, 1996; V. A. Teslenko.

MA-96-VAT-37: Small stream that flows into the small cove between Klyuv Cape and Orlova Cape; 48°03.46' N, 153°15.85' E; Aug 15, 1996; V. A. Teslenko.

MA-99-KLK-36, 37: Swamps near Ainu Bay; 48°02.85' N, 153°13.68' E; Aug 3, 1999; N. Minakawa, K. L. Kurowski.

MA-99-KLK-38: Swamps near Ainu Bay; 48°02.60' N, 153°13.87' E; Aug 3, 1999; N. Minakawa, K. L. Kurowski.

MA-99-VAT-29: Small pond near Ainu Bay; 48°02.64' N, 153°13.88' E; Aug 3, 1999; V. A. Teslenko.

RASSHUA

RAS-95-MO-13: Tikhoye Lake and Belaye Lake; 47°43.35' N, 152°59.34' E; Aug 12, 1995; M. Ohara.

RAS-95-PO-47: Tikhoye Lake; 47°43.30' N, 152°59.52' E; Aug 12, 1995; N. Minakawa.

RAS-95-PO-49: Small ponds near Tikhoye Lake; 47°43.32' N, 152°59.78' E; Aug 12, 1995; N. Minakawa, P. Oberg.

RAS-95-PO-51, 52: Inland from southwest section of island near the "arches", environs of small stream; 47°43.18' N, 152°59.25' E; Aug 12, 1995; N. Minakawa, P. Oberg.

RAS-95-PO-55: Stream that flows into Pacific Ocean; 47°43.05' N, 153°00.67' E; Aug 13, 1995; N. Minakawa, P. Oberg.

RAS-95-PO-57: Near mouth of stream that flows into Pacific Ocean; 47°42.70' N, 153°01.74' E; Aug 13, 1995; P. Oberg, N. Minakawa.

RAS-95-VAT-31: Tikhoye Lake; 47°43.34' N, 152°59.80' E; Aug 12, 1995; E.M. Sayenko.

RAS-95-VAT-32, 33: Stream that flows into Tikhoye Lake; 47°43.05' N, 153°00.67' E; Aug 13, 1995; V. A. Teslenko.

RAS-95-VAT-36: Bog adjacent to stream that flows into Tikhoye Lake; 47°43.05' N, 153°00.67' E; Aug 13, 1995; V. A. Teslenko.

RAS-99-KLK-39, 40: Tikhoye Lake and Beloye Lake, 2 km north of Malen'kaya Bay; 47°43.36' N, 152°59.56' E; Aug 4, 1999; N. Minakawa, K. L. Kurowski.
RAS-99-VAT-30: Beloye Lake; 47°43.36' N, 152°59.28' E; Aug 4, 1999; V. A. Teslenko.
RAS-99-VAT-32: Tichoye Lake; 47°43.40' N, 152°59.70' E; Aug 4, 1999; V. A. Teslenko.

KETOI

KE-95-MO-23: Coastal margin, east of Cape Storozheva; 47°22.60' N, 152°27.76' E; Aug 15, 1995; M. Ohara.
KE-95-KE-95-MO-23: Coastal margin, east of Cape Storozheva; 47°22.60' N, 152°27.76' E; Aug 15, 1995; M. Ohara.
KE-95-MO-37: Coastal margin in the environs of Stochnyi River; 47°17.93' N, 152°30.00' E; Aug 19, 1995; M. Ohara.
KE-95-PO-61, 62: Swamp, west of Kaskad Waterfall, east of Cape Storozheva; 47°22.54' N, 152°27.47' E; Aug 15, 1995; N. Minakawa, P. Oberg.
KE-95-PO-63, 64: Small stream about 2 km west of Kaskad Waterfall, east of Cape Storozheva; 47°22.48' N, 152°27.53' E; Aug 15, 1995; N. Minakawa, P. Oberg.
KE-95-PO-65: Waterfall about 2 km west from Kaskad Waterfall, east of Cape Storozheva; 47°22.53' N, 152°27.88' E; Aug 15, 1995; P. Oberg.
KE-95-PO-73: Stream near Stochnyi River; 47°17.93' N, 152°30.00' E; Aug 19, 1995; N. Minakawa.
KE-95-PO-74, 75: Stochnyi River; 47°18.11' N, 152°29.85' E; Aug 19, 1995; N. Minakawa, P. Oberg.
KE-95-PO-76: Puddles in environs of Stochnyi River, about 200 m from mouth; 47°18.11' N, 152°29.85' E; Aug 19, 1995; N. Minakawa, P. Oberg.
KE-95-PO-77: Puddles in environs of Stochnyi River, top of coastal plateau; 47°18.08' N, 152°30.21' E; Aug 19, 1995; N. Minakawa.
KE-95-PO-79: Stream near Stochnyi River; 47°17.89' N, 152°30.69' E; Aug 19, 1995; P. Oberg.
KE-95-VAT-37, 38: Waterfall about 2 km west from Kaskad Waterfall, east of Cape Storozheva; 47°22.48' N, 152°27.53' E; Aug 15, 1995; V. A. Teslenko.
KE-95-VAT-39: Swamp, west of Kaskad Waterfall, east of Cape Storozheva; 47°22.54' N, 152°27.47' E; Aug 15, 1995; V. A. Teslenko.
KE-95-VAT-44, 45: Stochnyi River; 47°17.93' N, 152°30.00' E; Aug 19, 1995; V. A. Teslenko.
KE-95-VAT-46: Puddles in environs of Stochnyi River, about 1 km upriver from mouth; 47°18.11' N, 152°29.85' E; Aug 19, 1995; V. A. Teslenko.
KE-95-VAT-47: Stochnyi River; 47°18.03' N, 152°29.96' E; Aug 19, 1995; V. A. Teslenko.

SIMUSHIR

SI-95-BKU-32B: Coastal margin, Kitoboyknaya Bay; 46°51.15' N, 151°47.83' E; Aug 10, 1995; B. K. Urbain.
SI-95-MO-10: Coastal margin, Kitoboyknaya Bay; 46°51.12' N, 151°47.75' E; Aug 10, 1995; M. Ohara.
SI-95-PO-39: Small coastal waterfall and stream that flows into Kitoboyknaya Bay; 46°51.24' N, 151°47.83' E; Aug 10, 1995; N. Minakawa, P. Oberg.
SI-95-PO-40, 41: Small coastal waterfall and stream that flows into Kitoboyknaya Bay; 46°51.10' N, 151°47.73' E; Aug 10, 1995; P. Oberg.
SI-95-PO-42: Small coastal stream that flows into Kitoboyknaya Bay; 46°51.25' N, 151°48.14' E; Aug 10, 1995; N. Minakawa, P. Oberg.
SI-95-PO-43: Small coastal waterfall and stream that flows into Kitoboyknaya Bay; 46°51.40' N, 151°48.37' E; Aug 10, 1995; N. Minakawa, P. Oberg.
SI-95-PO-44: Small coastal stream that flows into Kitoboyknaya Bay; 46°51.25' N, 151°48.14' E; Aug 10, 1995; P. Oberg.
SI-95-PO-45, 46: Stream near Kostochko Meteorological station, Kitoboyknaya Bay; 46°51' N, 151°47' E; Aug 11, 1995; N. Minakawa, P. Oberg.
SI-95-PO-66: Stream that flows into Malaya Bay; 47°05.38' N, 152°08.15' E; Aug 18, 1995; N. Minakawa, P. Oberg.
SI-95-PO-68: Stream about 200 m upstream from mouth, Malaya Bay; 47°05.24' N, 152°08.20' E; Aug 18, 1995; P. Oberg.
SI-95-PO-69: Stream about 600 m upstream from mouth, Malaya Bay; 47°05.16' N, 152°08.32' E; Aug 18, 1995; P. Oberg.
SI-95-PO-70: Stream that flows into Malaya Bay; 47°05.60' N, 152°08.29' E; Aug 18, 1995; N. Minakawa.
SI-95-PO-80, 81: River that flows into Srednaya Bay; 46°59.01' N, 152°01.30' E; Aug 22, 1995; N. Minakawa, P. Oberg.
SI-95-PO-82: Stream that flows into Srednaya Bay; 46°58.69' N, 152°00.77' E; Aug 22, 1995; N. Minakawa, P. Oberg.
SI-95-VAT-24, 25: Waterfall in Kitoboyknaya Bay; 46°51.24' N, 151°47.83' E; Aug 10, 1995; V. A. Kostenko.
SI-95-VAT-26, 27: Waterfall in Kitoboyknaya Bay; 46°51.24' N, 151°47.83' E; Aug 10, 1995; V. A. Teslenko.
SI-95-VAT-29, 30: Stream near Kostochko Meteorological station, Kitoboyknaya Bay; 46°51' N, 151°47' E; Aug 11, 1995; V. A. Teslenko.
SI-95-VAT-40: Stream that flows into Malaya Bay; 47°05.38' N, 152°08.15' E; Aug 18, 1995; V. A. Teslenko.
SI-95-VAT-41: Small stream about 2 km inland from Malaya Bay; 47°05.38' N, 152°08.15' E; Aug 18, 1995; V. A. Teslenko.
SI-95-VAT-42, 43: Small stream that flows into Malaya Bay; 47°05.60' N, 152°08.22' E; Aug 18, 1995; V. A. Teslenko.
SI-95-VAT-48, 49: Small stream near old house, Srednaya Bay; 46°58.94' N, 152°01.39' E; Aug 22, 1995; V. A. Teslenko.
SI-95-VAT-50, 51: Stream about 2 km west of Cape Cheorny, Srednaya Bay; Aug 22, 1995; V. A. Teslenko.
SI-99-DJB-69: Inland of Dushnaya Bay, about 1 km south of Cape Neprochka; 47°04.46' N, 152°11.60' E; Aug 9, 1999; D. J. Bennett.
SI-99-DJB-71: Plain near bluffs overlooking coast of Dushnaya Bay; 47°04.49' N, 152°11.52' E; Aug 9, 1999; D. J. Bennett.
SI-99-KLK-41, 42: Stream that flows from Oleniy Range into Dushnaya Bay; 47°04.24' N, 152°11.00' E; Aug 9, 1999; N. Minakawa, K. L. Kurowski.
SI-99-NM-08: Ponds and swamps by road, inland from Broutona Bay, Sredniy Isthmus; 47°06.08' N, 152°14.24' E; Aug 8,

- 1999; N. Minakawa.
- SI-99-VAT-34: Broutona Bay, Peresheek Sredniy, small swamps on the left side of the road from Broutona Bay to Paletz Cape; about 2.5 km from the southeastern part of the bay; 47°06.29' N, 152°13.85' E; Aug 8, 1999; V. A. Teslenko.
- SI-99-VAT-40: River that flows from Oleniy Range into Dushnaya Bay; 47°04.22' N, 152°11.08' E; Aug 9, 1999; V. A. Teslenko.
- SI-00-ATR-73: North end of island, inland from northeast part of Broutona Bay, near roadside in disturbed flat area backed by hillside with sasa and birch trees; 47°07.82' N, 152°16.40' E; Aug 2, 2000; T. R. Anderson.

URUP

- UR-95-BKU-73A: Environs of Vstrechniy River, Negodnaya Bay; 45°57.74' N, 150°10.54' E; Aug 29, 1995; B. K. Urbain.
- UR-95-EMS-05: Small marshland north of Tokotan Lake, Otkrytyi Bay; 45°51.20' N, 149°47.30' E; Aug 4, 1995; V. V. Bogatov, E. M. Sayenko.
- UR-95-MO-03, 05: Stream near Shabalina River, Otkrytyi Bay; 45°51.04' N, 149°46.12' E; Aug 4, 1995; M. Ohara.
- UR-95-MO-08: Straya River, Novo-Kuril'skaya Bay; 46°12.84' N, 150°18.69' E; Aug 8, 1995; M. Ohara.
- UR-95-MO-60, 61: Rybnaya River, Smuglyi Bay; 46°01.02' N, 149°58.42' E; Aug 25, 1995; M. Ohara.
- UR-95-MO-67: Lopukhovaya River, Barkhatny Bay; 45°48.26' N, 149°54.59' E; Aug 28, 1995; M. Ohara.
- UR-95-MO-68: Pond in environs of Lopukhovaya River, Barkhatny Bay; 45°47.79' N, 149°54.01' E; Aug 28, 1995; M. Ohara.
- UR-95-MO-72: Bog in environs of Vstrechniy River, Negodnaya Bay; 45°57.47' N, 150°10.41' E; Aug 29, 1995; M. Ohara.
- UR-95-PO-09: Tokotan Lake, Otkrytyi Bay; 45°51.49' N, 149°46.67' E; Aug 4, 1995; N. Minakawa, P. Oberg.
- UR-95-PO-10: Stream about 2 km southwest from Tokotan Lake, Otkrytyi Bay; 45°51.37' N, 149°46.66' E; Aug 4, 1995; N. Minakawa, P. Oberg.
- UR-95-PO-11, 12, 13: Stream about 3 km southwest from Tokotan Lake, Otkrytyi Bay; 45°51.04' N, 149°46.12' E; Aug 4, 1995; N. Minakawa, P. Oberg.
- UR-95-PO-14, 15: Stream that flows into Otkrytyi Bay; 45°52.22' N, 149°47.79' E; Aug 5, 1995; N. Minakawa.
- UR-95-PO-18, 19: Vesyolaya River, Natalie Bay; 46°05.18' N, 150°08.44' E; Aug 6, 1995; N. Minakawa, P. Oberg.
- UR-95-PO-21, 22: Coastal waterfall and stream in Natalie Bay; 46°05.35' N, 150°06.95' E; Aug 6, 1995; N. Minakawa, P. Oberg.
- UR-95-PO-23, 24: Coastal stream about 3 km south of Vesyolaya River, Natalie Bay; 46°05' N, 150°06' E; Aug 6, 1995; N. Minakawa.
- UR-95-PO-25: Obzhitaya River, Natalie Bay; 46°05.52' N, 150°10.07' E; Aug 7, 1995; N. Minakawa, P. Oberg.
- UR-95-PO-31: Straya River, Novo-Kuril'skaya Bay; 46°12.41' N, 150°19.05' E; Aug 8, 1995; N. Minakawa, P. Oberg.
- UR-95-PO-33, 34, 36, 37: Straya River, Novo-Kuril'skaya Bay; 46°12.35' N, 150°18.81' E; Aug 8, 1995; N. Minakawa, P. Oberg.
- UR-95-PO-88: Marsh in environs of Rybnaya River, Smuglyi Bay; 46°01.46' N, 149°59.02' E; Aug 24, 1995; N. Minakawa, P. Oberg.
- UR-95-PO-89: Side pools in environs of Rybnaya River, Smuglyi Bay; 46°01.46' N, 149°59.02' E; Aug 24, 1995; N. Minakawa, P. Oberg.
- UR-95-PO-93, 94: Tributary of Rybnaya River, Smuglyi Bay; 46°01.06' N, 149°59.64' E; Aug 24, 1995; N. Minakawa.
- UR-95-PO-95, 96: Tributary of Rybnaya River, Smuglyi Bay; 46°01.02' N, 149°58.42' E; Aug 24, 1995; N. Minakawa.
- UR-95-PO-99: Stream that flows into Katayeva Bay; 45°34.82' N, 149°26.25' E; Aug 26, 1995; P. Oberg.
- UR-95-PO-100: Stream that flows into Katayeva Bay; 45°34.73' N, 149°26.21' E; Aug 26, 1995; P. Oberg.
- UR-95-PO-102: Lake, about 3 km inland from Katayeva Bay; 45°36.25' N, 149°29.24' E; Aug 26, 1995; N. Minakawa.
- UR-95-PO-104, 105: Stream that flows into Katayeva Bay; 45°34.82' N, 149°26.25' E; Aug 26, 1995; N. Minakawa.
- UR-95-PO-106, 107: Tributary of Lopukhovaya River, Barkhatny Bay; 45°47.85' N, 149°54.07' E; Aug 28, 1995; N. Minakawa, P. Oberg.
- UR-95-PO-108: Near ponds in environs of Lopukhovaya River, Barkhatny Bay; 45°47.78' N, 149°54.04' E; Aug 28, 1995; P. Oberg.
- UR-95-PO-109, 110, 111: Near ponds in environs of Lopukhovaya River, Barkhatny Bay; 45°47.79' N, 149°54.01' E; Aug 28, 1995; P. Oberg, N. Minakawa.
- UR-95-PO-112: Tributary of Lopukhovaya River, Barkhatny Bay; 45°47.85' N, 149°54.07' E; Aug 28, 1995; N. Minakawa.
- UR-95-PO-113, 114: Lake in environs of Vstrechniy River, Negodnaya Bay; 45°57.85' N, 150°10.80' E; Aug 29, 1995; P. Oberg, D.E. Hoekstra.
- UR-95-PO-115: Vstrechniy River, Negodnaya Bay; 45°57.60' N, 150°10.43' E; Aug 29, 1995; P. Oberg, D.E. Hoekstra.
- UR-95-PO-116, 117: Near ponds in environs of Vstrechniy River, Negodnaya Bay; 45°57.76' N, 150°10.82' E; Aug 29, 1995; P. Oberg, N. Minakawa.
- UR-95-PO-118: Mouth of stream in Negodnaya Bay; 45°56.64' N, 150°10.56' E; Aug 29, 1995; P. Oberg, N. Minakawa.
- UR-95-VR-32: Near shore of Katayeva Bay; 45°34.89' N, 149°26.24' E; Aug 26, 1995; V. Roth.
- UR-95-VAT-08: Tokotan Lake, Otkrytyi Bay; 45°51.49' N, 149°47.67' E; Aug 4, 1995; V. A. Teslenko.
- UR-95-VAT-09: Stream about 2 km southwest from Tokotan Lake, Otkrytyi Bay; 45°51.37' N, 149°46.66' E; Aug 4, 1995; V. A. Teslenko.
- UR-95-VAT-10, 11: Stream about 3 km southwest from Tokotan Lak, Otkrytyi Bay; 45°51.04' N, 149°46.12' E; Aug 4, 1995; V. A. Teslenko.
- UR-95-VAT-13: Coastal waterfall in Otkrytyi Bay; 45°51.22' N, 149°47.79' E; Aug 5, 1995; V. A. Teslenko.
- UR-95-VAT-14: Lake southwest of Tokotan Lake, Otkrytyi Bay; 45°51.03' N, 149°47.71' E; Aug 5, 1995; E.M. Sayenko.
- UR-95-VAT-15: Vesyolaya River about 2 km from mouth, Natalie Bay; 46°05.19' N, 150°08.43' E; Aug 6, 1995; V. A.

Teslenko.

UR-95-VAT-16: Waterfall about 4 km east of Vesolaya River, Natalie Bay; 46°05.35' N, 150°06.95' E; Aug 6, 1995; V. A. Teslenko.

UR-95-VAT-18, 19: 4 small streams along coast within 4 km east from Vesolaya River, Natalie Bay; 46°05.35' N, 150°06.95' E; Aug 6, 1995; V. A. Teslenko.

UR-95-VAT-20: Obzhitaya River about 2 km from mouth, Natalie Bay; 46°05.85' N, 150°09.91' E; Aug 7, 1995; V. A. Teslenko.

UR-95-VAT-22: Small tributary within bog near mouth of Straya River, Novo-Kuril'skaya Bay; 46°12.41' N, 150°19.05' E; Aug 8, 1995; V. A. Teslenko.

UR-95-VAT-23: Straya River, Novo-Kuril'skaya Bay; 46°12.35' N, 150°18.81' E; Aug 8, 1995; V. A. Teslenko.

UR-95-VAT-52, 53: Rybnaya River, about 2.5 km from mouth, Smuglyi Bay; 46°01.46' N, 149°59.02' E; Aug 24, 1995; V. A. Teslenko.

UR-95-VAT-54, 55: Lake near Osma River about 3 km inland from Katayeva Bay; 45°36.28' N, 149°29.20' E; Aug 26, 1995; V. A. Teslenko.

UR-95-VAT-56: Lake near PVO Station about 3 km Inland from Katayeva Bay; 45°36.28' N, 149°29.20' E; Aug 26, 1995; V. A. Teslenko.

UR-95-VAT-57, 58: Lopukhovaya River about 4.5 km from mouth, Barkhatny Bay; 45°48.55' N, 149°53.55' E; Aug 28, 1995; V. A. Teslenko.

UR-95-VAT-59: Lopukhovaya River about 4.5 km from mouth, Barkhatny Bay; 45°48.55' N, 149°53.55' E; Aug 28, 1995; A. Balanov.

UR-95-VAT-60, 61: Southern tributary of Lopukhovaya River, Barkhatny Bay; 45°47.78' N, 149°54.04' E; Aug 28, 1995; V. A. Teslenko, N. Minakawa, P. Oberg.

UR-95-VAT-63: Small Lake north of Vstrechnyi River, Negodnaya Bay; 45°57.55' N, 150°10.33' E; Aug 29, 1995; V. A. Teslenko.

UR-95-VAT-65: Lake about 1 km northeast of Vstrechnyi River, Negodnaya Bay; 45°57.84' N, 150°10.63' E; Aug 29, 1995; V. V. Bogatov, E. M. Sayenko.

UR-95-VAT-66: Stream near the 'YOSHI MARU' shipwreck, Negodnaya Bay; 45°56.60' N, 150°10.44' E; Aug 29, 1995; V. A. Teslenko., N. Minakawa, P. Oberg.

UR-96-BKU-80: Environs of Kama River mouth, Tetyaeva Bay; 45°38.85' N, 149°27.97' E; Aug 21, 1996; B. K. Urbain.

UR-96-NM-22: Ukromnaya River about 1.5 km from mouth, Ukromnaya Bay; 45°35.57' N, 149°31.28' E; Aug 20, 1996; N. Minakawa.

UR-96-NM-24: Tributary of Ukromnaya River, Ukromnaya Bay; 45°35.56' N, 149°31.26' E; Aug 20, 1996; N. Minakawa.

UR-96-NM-25: Waterfall at west side of Chrenoburka Bay; 45°35.23' N, 149°32.56' E; Aug 20, 1996; N. Minakawa.

UR-96-NM-26: Tributary of Kama River, about 1 km from mouth, Tetyaeva Bay; 45°38.43' N, 149°28.20' E; Aug 21, 1996; N. Minakawa.

UR-96-PO-60: Stream that flows into Ukromnaya Bay, about halfway between Ukromnaya River and Kuzinoty Point; 45°34.90' N, 149°31.85' E; Aug 20, 1996; P. Oberg.

UR-96-PO-62: Stream that flows into Ukromnaya Bay, between Ukromnaya River and Kuzinoty Point, just north of stream in UR-96-PO-60; 45°34.95' N, 149°32.04' E; Aug 20, 1996; P. Oberg.

UR-96-PO-66, 67: Ponds in wetland in environs (300 m south of) of Kama River, about 3 km inland from Tetyaeva Bay; 45°38.62' N, 149°28.72' E; Aug 21, 1996; P. Oberg, N. Minakawa.

UR-96-VAT-41, 42: Ukromnaya River, main river and tributary 2.5 km from river mouth, Ukromnaya Bay; 45°35.21' N, 149°32.14' E; Aug 20, 1996; V. A. Teslenko.

UR-96-VAT-43: Lake about 100 m inland from Bajdorocknaya Bay; Aug 20, 1996; V. A. Teslenko.

UR-96-VAT-44, 45: Small lakes in environs of Kama River, 3 km from mouth, Tetyaeva Bay; 45°38.58' N, 149°28.75' E; Aug 21, 1996; V. A. Teslenko.

UR-96-VAT-46: Tributary of Kama River, that flows from the hill near lake on the left side, Tetyaeva Bay; 45°38.43' N, 149°28.20' E; Aug 21, 1996; V. A. Teslenko.

UR-00-ATR-85, 86: Inland from Aleutka Bay, lowland near river surrounded by small hills; 45°56.10' N, 150°09.70' E; Aug 7, 2000; T. R. Anderson.

UR-00-DJB-81: Inland of Aleutka Bay, river valley about 1/3 mile inland from coast, broad plain adjacent to river; 45°56.18' N, 150°09.39' E; Aug 7, 2000; D. J. Bennett.

ITURUP

IT-94-RG-01: Lake Natasha, Dobroye Nachalo Bay; 44°46'06"N, 147°11'18"E; Aug 12, 1994; R. I. Gara, N. Minakawa.

IT-94-RG-02: Yasnyi Creek, about 700 m upstream from mouth, Dobroye Nachalo Bay; Aug 13, 1994; R. I. Gara, N. Minakawa.

IT-94-RG-03: Peschanyi Creek (near Yasnyi Creek), about 60 m upstream from mouth, Dobroye Nachalo Bay; 44°68.4' N, 147°18.8' E; Aug 13, 1994; R. I. Gara, N. Minakawa.

IT-94-RG-04: Godbaza River, about 1 km from mouth, Dobroye Nachalo Bay; Aug 14, 1994; R. I. Gara, N. Minakawa.

IT-94-RG-05: Stream that flows into Konservnaya Bay, near Zapravochnyi Waterfall; 45°19.92' N, 147°59.91'; Aug 16, 1994; R. I. Gara, N. Minakawa.

IT-94-RG-06: Zapravochnyi Waterfall, Konservnaya Bay; 45°19.81' N, 147°59.83' E; Aug 16, 1994; R. I. Gara, N. Minakawa.

IT-94-RG-07: Lake Lebedinoye near Kuril'sk; Aug 17, 1994; R. I. Gara, N. Minakawa.

IT-94-RG-08: Kitovaya River near Kuril'sk; 45°15'30" N, 147°52'06" E; Aug 17, 1994; R. I. Gara, N. Minakawa.

IT-94-RG-09: Reidovoye Lake near Reidovo; 45°16.00' N, 148°01.30' E; Aug 18, 1994; R. I. Gara, N. Minakawa.

IT-94-RG-11: Porozhistaya River, Tornaya Bay in Prostor Sound; Aug 19, 1994; R. I. Gara, N. Minakawa.

IT-94-RG-12: Lake Sopochnoye, Tornaya Bay in Prostor Sound; Aug 19, 1994; N. Minakawa, R. I. Gara.

IT-94-RG-13: Slavnaya River, about 1 km upriver from mouth, Slavnaya Bay in Prostor Sound; Aug 20, 1994; N. Minakawa, R. I. Gara.

IT-94-RG-14: Kumushka River by Aktivnyi settlement, Slavnaya Bay in Prostor Sound; 45°28.90' N, 148°39.07' E; Aug 21, 1994; N. Minakawa, R. I. Gara.

IT-94-RG-15: Pioner River, about 200 m from mouth, Kuibyshevskii Bay, 45°04'30" N, 147°38'00" E; Aug 22, 1994; N. Minakawa, R. I. Gara.

IT-94-TWP-02: Tichaya River, between 20-300 m from mouth, Dobroye Nachalo Bay; 44°43'18" N, 147°11'36" E; Aug 13, 1994; T. W. Pietsch, W. A. Palsson, B. K. Urbain, J.A. Lopez.

IT-94-VAT-33, 34: Yasnyi Creek, about 1.5 km from mouth, Dobroye Nachalo Bay; Aug 13, 1994; V. A. Teslenko.

IT-94-VAT-35: Godbaza River, at 50 and 200 m from mouth, Dobroye Nachalo Bay; Aug 14, 1994; V. A. Teslenko.

IT-94-VAT-36, 37: Godbaza River, about 800 m from mouth, Dobroye Nachalo Bay; Aug 14, 1994; V. A. Teslenko.

IT-94-VAT-38: Stream that feeds into Konservnaya Bay, near Zapravochoyi Waterfall, eastern Chirip Peninsula; 45°19.92' N, 147°59.91' E; Aug 16, 1994; V. A. Teslenko.

IT-94-VAT-39: Springs near, Zapravochoyi Waterfall, Konservnaya Bay; 45°20.01' N, 147°59.91' E; Aug 16, 1994; V. A. Teslenko.

IT-94-VAT-40: Zapravochoyi Waterfall, Konservnaya Bay; 45°20.01' N, 147°59.91' E; Aug 16, 1994; V. A. Teslenko.

IT-94-VAT-41: Lake Lebedinoye near Kurilsk; Aug 17, 1994; V. A. Teslenko.

IT-94-VAT-42: Kitovaya River, between 1.5 and 2 km from mouth; Aug 17, 1994; V. A. Teslenko.

IT-94-VAT-43, 44: Reidovoye Lake near Reidovo; Aug 18, 1994; V. A. Teslenko.

IT-94-VAT-45, 46: Porozhistaya River, Tornaya Bay in Prostor Sound; Aug 19, 1994; V. A. Teslenko.

IT-94-VAT-47: Lake Sopochnoye, Tornaya Bay in Prostor Sound; Aug 19, 1994; V. A. Teslenko.

IT-94-VAT-49: Slavnaya River, about 2 km from mouth, Slavnaya Bay in Prostor Sound; Aug 20, 1994; V. A. Teslenko.

IT-94-VAT-50, 51: Kumushka River by Aktivnyi settlement, Slavnaya Bay in Prostor Sound; 45°28.90' N, 148°39.07' E; Aug 21, 1994; V. A. Teslenko.

IT-94-VAT-53: Pioner River, Kuibyshevskii Bay; Aug 22, 1994; V.V. Bogatov.

IT-95-PO-06: First stream from north of Nezhnyi River, near Kitovyi Village; 45°17.63' N, 147°52.55' E; Aug 3, 1995; N. Minakawa, P. Oberg.

IT-95-PO-07: Stream, north of Kitovyi Village, environs of Nezhnyi River; 45°16.71' N, 147°52.29' E; Aug 3, 1995; N. Minakawa, P. Oberg.

IT-95-PO-08: Stream, north of Kitovyi Village, environs of Nezhnyi River; 45°16.71' N, 147°52.30' E; Aug 3, 1995; N. Minakawa, P. Oberg.

IT-95-PO-119, 120: Zapravochoyi Waterfall, Konservnaya Bay; 45°20.01' N, 147°59.91' E; Aug 31, 1995; P. Oberg, N. Minakawa, D.E. Hoekstra.

IT-95-PO-121: Stream that feeds into Konservnaya Bay, near Zapravochoyi Waterfall; 45°19.92' N, 147°59.91' E; Aug 31, 1995; N. Minakawa.

IT-95-VAT-04: First stream that flows into Nezhnyi River, about 4 km north of Kitovyi Village, environs of Nezhnaya Hill; 45°17.63' N, 147°52.55' E; Aug 3, 1995; V. A. Teslenko.

IT-95-VAT-05, 06, 07: Nezhnyi River about 4 km north of Kitovyi Village; 45°16.71' N, 147°52.29' E; Aug 3, 1995; V. A. Teslenko.

IT-95-VAT-67, 68: Zapravochoyi Waterfall, Konservnaya Bay; 45°20.01' N, 147°59.91' E; Aug 31, 1995; V. A. Teslenko.

IT-96-BKU-86: Inland coastal margin of Dobroye Nachalo Bay, along foot trail; 44°45.93' N, 147°10.91' E; Aug 22, 1996; B. K. Urbain.

IT-96-BKU-87: On ship, Akademik Oparin, anchored in Dobroye Nachalo Bay; 44°45.42' N, 147°10.67' E; Aug 22, 1996; B. K. Urbain.

IT-96-MO-52: On ship, Akademik Oparin, anchored in Dobroye Nachalo Bay; 44°44.61' N, 147°10.50' E; Aug 22, 1996; M. Ohara.

IT-96-NM-19: Stream that flows into Konservnaya Bay, near Zapravochoyi Waterfall; 45°19.94' N, 147°59.76' E; Aug 18, 1996; N. Minakawa.

IT-96-NM-29: Dobroye Lake, Dobroye Nachalo Bay; 44°44.23' N, 147°13.13' E; Aug 23, 1996; N. Minakawa.

IT-96-PO-58: Stream that feeds into Konservnaya Bay, near Zapravochoyi Waterfall; 45°19.79' N, 147°59.75' E; Aug 19, 1996; P. Oberg, N. Minakawa.

IT-96-PO-59: Stream that feeds into Konservnaya Bay, near Zapravochoyi Waterfall; 45°19.94' N, 147°59.76' E; Aug 19, 1996; N. Minakawa.

IT-96-PO-69, 75: Lake Natasha, about 1 km Dobroye Nachalo Bay; 44°46.21' N, 147°11.40' E; Aug 22, 1996; P. Oberg, N. Minakawa.

IT-96-VAT-47: Lake Natasha, Dobroye Nachalo Bay; 44°46.21' N, 147°11.40' E; Aug 22, 1996; V. A. Teslenko.

IT-96-VAT-48: Lake Natasha, Dobroye Nachalo Bay; 44°46.27' N, 147°11.40' E; Aug 22, 1996; V. A. Teslenko.

IT-96-VAT-49: Dobroye Lake, Dobroye Nachalo Bay; 44°44.23' N, 147°13.13' E; Aug 23, 1996; V. A. Teslenko.

IT-96-VAT-50: Dobroye Lake, Dobroye Nachalo Bay; 44°44.23' N, 147°13.13' E; Aug 23, 1996; V. A. Teslenko.

IT-97-BKU-14: Stream about 4 km east of Kitovyi, along side road (off main road) that leads down to abandoned fish hatchery along Podoshevka River; 45°15.90' N, 147°55.90' E; Jul 29, 1997; B. K. Urbain.

IT-97-BKU-19: Coastal margin of Konservnaya Bay; 45°20.04' N, 147°59.84' E; Jul 30, 1997; B. K. Urbain.

IT-97-NM-06: Podoshevka River about 4 km east of Kitovyi, along side road (off main road) that leads down to abandoned fish hatchery; 45°15.87' N, 147°55.71' E; Jul 29, 1997; N. Minakawa.

IT-97-NM-12: Podoshevka River about 4 km east of Kitovyi, along side road (off main road) that leads down to abandoned fish hatchery; 45°15.87' N, 147°55.89' E; Jul 29, 1997; N. Minakawa.

IT-97-NM-13: Stream that flows into Konservnaya Bay; 45°20.04' N, 147°59.80' E; Jul 30, 1997; N. Minakawa.

IT-97-NM-19: Zapravochoyi Waterfall, Konservnaya Bay; 45°19.84' N, 147°59.73' E; Jul 30, 1997; N. Minakawa.

IT-97-NM-20: Stream that flows into Konservnaya Bay; 45°20.04' N, 147°59.80' E; Jul 31, 1997; N. Minakawa.

IT-97-NM-21: On ship, Professor Bogorov, anchored in Konservnaya Bay, near Zapravochoyi Waterfall; 45°19.81' N, 147°59.83' E; Jul 31, 1997; N. Minakawa.

IT-97-NM-84: Stream that flows into Konservnaya Bay, near Zapravochoyi Waterfall; 45°20.04' N, 147°59.80' E; Aug 22, 1997; N. Minakawa.

IT-97-NM-85: Zapravochoyi Waterfall, Konservnaya Bay; 45°19.85' N, 147°59.68' E; Aug 22, 1997; N. Minakawa.

IT-97-TIR-05, 06: Podoshevka River, about 4 km east of Kitovyi by road, near abandoned fish hatchery, 0.5 km upriver from road bridge; 45°15.82' N, 147°55.69' E; Jul 29, 1997; T. I. Ritchie.

IT-97-VAT-06: Podoshevka River about 4 km east of Kitovyi by road, near abandoned fish hatchery, about 1-1.5 km upstream from hatchery; 45°15.87' N, 147°55.71' E; Jul 29, 1997; V. A. Teslenko.

IT-97-VAT-08: Near Zapravochnyi Waterfall, coastal margin of Konservnaya Bay; Jul 30, 1997; V. A. Teslenko.

IT-98-BKU-26: North shore of Lake Sredney, northern end of Kasatka Bay; 44°58.83' N, 147°44.14' E; Jul 31, 1998; B. K. Urbain.

IT-98-BKU-60: Stream at northern end of sandy coastline, Medvezhya Bay; 45°27.50' N, 148°49.96' E; Aug 5, 1998; B. K. Urbain.

IT-98-DJB-32, 34: Near Lake Sredney, northern end of Kasatka Bay; 44°58.53' N, 147°44.38' E; Jul 31, 1998; D. J. Bennett.

IT-98-DJB-40, 41, 42: Near Kasatka Lake, northeastern part of Kasatka Bay; 45°00.45' N, 147°43.68' E; Aug 1, 1998; D. J. Bennett.

IT-98-DJB-48: Coastal margin, Sernozavoskaya Bay; 44°58.10' N, 147°53.71' E; Aug 2, 1998; D. J. Bennett.

IT-98-DJB-63: Near mouth of Medyez'ya River, Medvezhya Bay; 45°26.70' N, 148°49.68' E; Aug 5, 1998; D. J. Bennett.

IT-98-DJB-69: Coastal stream that flows into Medvezhya Bay; 45°25.56' N, 148°49.87' E; Aug 5, 1998; D. J. Bennett.

IT-98-DJB-71: Bog, Slavnaya Bay; 45°29.47' N, 148°37.13' E; Aug 6, 1998; D. J. Bennett.

IT-98-LJW-11, 12: Coastal stream near Cape Trikhpal'y and Usach River; 44°28.65' N, 146°59.92' E; Jul 29, 1998; L. J. Weis, N. Minakawa.

IT-98-LJW-13: Usach River, near Cape Trikhpal'y; 44°28.84' N, 147°00.11' E; Jul 29, 1998; L. J. Weis, N. Minakawa.

IT-98-LJW-15: Khvoinaya River near Burevestnik Village; 44°55.87' N, 147°36.33' E; Jul 30, 1998; L. J. Weis, N. Minakawa.

IT-98-LJW-16: Sredney Lake, eastern Kasatka Bay; 44°58.89' N, 147°44.08' E; Jul 31, 1998; L. J. Weis.

IT-98-LJW-18: Stream that flows into eastern Kasatka Bay; 45°00.10' N, 147°43.71' E; Aug 1, 1998; L. J. Weis.

IT-98-LJW-19: Marsh, eastern Kasatka Bay; 45°00.67' N, 147°43.35' E; Aug 1, 1998; L. J. Weis.

IT-98-LJW-20: Blagodamyo Lake, east side of Kasatka Bay; 45°01.06' N, 147°43.29' E; Aug 1, 1998; L. J. Weis.

IT-98-LJW-21: Stream that flows into northeastern Kasatka Bay; 45°01.06' N, 147°43.29' E; Aug 1, 1998; L. J. Weis.

IT-98-LJW-22: Stream that flows into Sernozavoskaya Bay; 44°58.06' N, 147°53.77' E; Aug 2, 1998; L. J. Weis.

IT-98-LJW-23: Stream that flows into Sernozavoskaya Bay; 44°58.16' N, 147°53.75' E; Aug 2, 1998; L. J. Weis.

IT-98-LJW-24: Stream that flows into Zorkaya Bay; 45°16.47' N, 148°30.19' E; Aug 4, 1998; L. J. Weis.

IT-98-LJW-25: Stream that flows into Zorkaya Bay; 45°16.82' N, 148°30.42' E; Aug 4, 1998; L. J. Weis.

IT-98-LJW-27, 28: Medvezhya River, Medvezhya Bay; 45°25.96' N, 148°49.63' E; Aug 5, 1998; L. J. Weis.

IT-98-LJW-29, 30: Medvezhya River, Medvezhya Bay; 45°26.19' N, 148°49.64' E; Aug 5, 1998; L. J. Weis.

IT-98-LJW-31: Medvezhya River, Medvezhya Bay; 45°25.56' N, 148°49.87' E; Aug 5, 1998; L. J. Weis.

IT-98-LJW-32, 33: Kumushka River by Aktivnyi settlement / hatchery station, Slavnaya Bay; 45°28.90' N, 148°39.07' E; Aug 6, 1998; L. J. Weis.

IT-98-LJW-34, 35: Stream that feeds into Konservnaya Bay, near Zapravochoyi Waterfall; 45°19.68' N, 147°59.89' E; Aug 7, 1998; L. J. Weis.

IT-98-LJW-36: Springs near, Zapravochoyi Waterfall, Konservnaya Bay; 45°19.77' N, 147°59.74' E; Aug 7, 1998; L. J. Weis.

IT-98-LJW-37: Lesozavodskoye Lake, Dobroye Nachalo Bay; 44°46.07' N, 147°11.20' E; Aug 10, 1998; L. J. Weis.

IT-98-NM-05: Tire truck puddles, northern end of Kasatka Bay; 44°58.77' N, 147°44.20' E; Jul 31, 1998; N. Minakawa.

IT-98-NM-06: Sredney Lake, eastern Kasatka Bay; 44°58.40' N, 147°44.59' E; Jul 31, 1998; N. Minakawa.

IT-98-NM-10: Kasatka Lake, northeastern Kasatka Bay; 45°00.72' N, 147°43.30' E; Aug 1, 1998; N. Minakawa.

IT-98-NM-11: Blagodamyo Lake, northeastern Kasatka Bay; 45°01.36' N, 147°43.43' E; Aug 1, 1998; N. Minakawa.

IT-98-NM-13: Blagodamyo Lake, northeastern Kasatka Bay; 45°01.78' N, 147°43.56' E; Aug 1, 1998; N. Minakawa.

IT-98-NM-14: Blagodamyo Lake, northeastern Kasatka Bay; 45°02.15' N, 147°43.81' E; Aug 1, 1998; N. Minakawa.

IT-98-NM-15: Stream between Sredney Lake and Blagodamyo Lake, northeastern Kasatka Bay; 45°01.06' N, 147°43.29' E; Aug 1, 1998; N. Minakawa.

IT-98-NM-16: Stream that flows into Sernozavoskaya Bay; 44°58.05' N, 147°53.86' E; Aug 2, 1998; N. Minakawa.

IT-98-NM-19: Zorky River, Zorkaya Bay; 45°16.38' N, 148°30.12' E; Aug 4, 1998; N. Minakawa.

IT-98-NM-20: Lugovoy River, Zorkaya Bay; 45°16.93' N, 148°30.42' E; Aug 4, 1998; N. Minakawa.

IT-98-NM-23, 37: Stream that flows into Medvezhya Bay, north of Medvezhya River; 45°27.88' N, 148°50.30' E; Aug 5, 1998; N. Minakawa.

IT-98-NM-24: Stream that flows into Dozorny Bay; 44°32.63' N, 146°56.93' E; Aug 10, 1998; N. Minakawa.

IT-98-TIA-31: Unnamed stream inland from Medvez'ya Bay; 45°25.53' N; 148°49.76' E; Aug 8, 1998; T. I. Arefina.

IT-98-VAT-09, 10: Stream with waterfall 1.5 km north from Usach River, near cape Trikhpal'y; 44°28.14' N, 1; 46°59.70' E; Jul 29, 1998; V. A. Teslenko.

IT-98-VAT-11, 12: Khvoynaya River about 1 km from the bridge; 44°55.89' N, 147°36.01' E; Jul 30, 1998; V. A. Teslenko.

IT-98-VAT-13: Ponds near Kasatka River mouth, northern end of Kasatka Bay; 44°58.42' N, 147°44.55' E; Jul 31, 1998; V. A. Teslenko.

IT-98-VAT-14: Tichiy Creek that flows into Sredney Lake, northern end of Kasatka Bay; 44°58.39' N, 147°44.59' E; Jul 31, 1998; V. A. Teslenko.

IT-98-VAT-15: Northeast part of Sredney Lake, northern end of Kasatka Bay; 44°58.40' N, 147°44.59' E; Jul 31, 1998; V. A. Teslenko.

IT-98-VAT-16, 17: Blagodamoyo River, about 1 km from mouth, near Yoryachie Kluchi settlement, northeastern Kasatka Bay; 45°02.49' N, 147°45.58' E; Aug 1, 1998; V. A. Teslenko.

IT-98-VAT-18: Southeastern part of Blagodamoyo Lake, northeastern Kasatka Bay; Aug 1, 1998; V. A. Teslenko.

IT-98-VAT-21: Otkoshaya River, about 1 km from mouth, between Cape Kanonerka and Cape Yevgeniya; 45°10.00' N, 148°12.76' E; Aug 3, 1998; V. A. Teslenko.

IT-98-VAT-22, 23: Zorky River, 2 km from mouth, environs of Sentyabrskiy, Zorkaya Bay; 45°16.29' N, 148°28.90' E; Aug 4, 1998; V. A. Teslenko.

IT-98-VAT-24: Lugovoy River, below the waterfall, environs of Sentyabrskiy, Zorkaya Bay; Aug 4, 1998; V. A. Teslenko.

IT-98-VAT-26, 27: Stream west side of Medyezhy Bay; 45°25.53' N, 148°49.76' E; Aug 5, 1998; V. A. Teslenko.

IT-98-VAT-28: Small stream between the stream on the west of Medyezhy Bay and Medyezhy'ya River; Aug 5, 1998; S. Y. Storozhenko.

IT-98-VAT-29, 30: Kumushka River by Aktivnyi settlement / hatchery station, Slavnya Bay; 45°28.90' N, 148°39.07' E; Aug 6, 1998; V. A. Teslenko.

IT-98-VAT-31, 32: Zapravochiy Waterfall, Konservnaya Bay, 45°19.85' N, 147°59.68' E; Aug 7, 1998; V. A. Teslenko.

IT-98-VAT-33, 34, 35: Small waterfall next to Zapravochiy Waterfall, Konservnaya Bay; 45°19.77' N, 147°59.74' E; Aug 7, 1998; V. A. Teslenko.

IT-98-VAT-36: Lake Natasha, Dobroye Nachalo Bay, environs of Lesozavodskiy; 44°46.21' N, 147°11.40' E; Aug 10, 1998; V. A. Teslenko.

IT-98-VAT-37, 38: Stryi Creek, Dozorny Bay; 44°32.57' N, 146°57.09' E; Aug 10, 1998; V. A. Teslenko.

IT-99-DJB-93: Coastal margin, northern end of Dobroye Nachalo Bay, near military building; 44°46.01' N, 147°11.58' E; Aug 14, 1999; D. J. Bennett.

IT-99-DJB-97: Inland from beach along road up to Tichaya River (1.41 km from beach, northern end of Dobroye Nachalo Bay; 44°43.38' N, 147°12.77' E; Aug 15, 1999; D. J. Bennett.

IT-99-DJB-99: Inland from beach, along start of road to Lake, Dobroye Nachalo Bay; 44°43.82' N, 147°11.90' E; Aug 15, 1999; D. J. Bennett.

IT-99-KLK-43: Kuybyshevskiy Lake, Kuybyshevskiy Bay; 45°04.21' N, 147°39.09' E; Aug 13, 1999; N. Minakawa, K. L. Kurowski.

IT-99-KLK-44, 45: Kuybyshevskiy Lake, Kuybyshevskiy Bay; 45°04.51' N, 147°41.98' E; Aug 13, 1999; N. Minakawa, K. L. Kurowski.

IT-99-NM-13, 14: Southeastern side of Lake Natasha, northern end of Dobroye Nachalo Bay, near Lesozavodskoy; 44°46.21' N, 147°11.40' E; Aug 14, 1999; N. Minakawa.

IT-99-NM-15: Southwestern side of Dobroye Lake, Dobroye Nachalo Bay; 44°44.24' N, 147°13.44' E; Aug 15, 1999; N. Minakawa.

IT-99-VAT-46: Northwestern part of Kuybyshevskiy Lake, Kuybyshevskiy Bay; 45°04.34' N, 147°39.03' E; Aug 13, 1999; V. A. Teslenko.

IT-99-VAT-50: Eastern side of Lesozavodskoye Lake, Dobroye Nachalo Bay; 44°46.43' N, 147°12.84' E; Aug 14, 1999; V. A. Teslenko.

IT-99-VAT-52: Southwestern side of Dobroye Lake, near Tichaya River flows from the Lake, Dobroye Nachalo Bay; 44°44.24' N, 147°13.44' E; Aug 15, 1999; V. A. Teslenko.

IT-99-VAT-54: Bolshoye Stream, near the bridge over the stream, about 2 km from the mouth, Dobroye Nachalo Bay; 44°43.69' N, 147°14.34' E; Aug 15, 1999; V. A. Teslenko.

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KU-94-NM-01: Northern and eastern shore of Lake Aliger; 44°02'48" N, 145°44'24" E; Jul 31, 1994; N. Minakawa, R. I. Gara.

KU-94-NM-04: Lower stream section between Lake Bezymaynoye and Lake Lagunnoye; 44°03'06" N, 145°45'48" E; Jul 31, 1994; N. Minakawa, R. I. Gara.

KU-94-NM-05: About 150 m from mouth of Ilyushina River; 44°09'18" N, 145°56'30" N; Aug 1, 1994; N. Minakawa, R. I. Gara.

KU-94-NM-07: About 300 m from mouth of Ilyushina River; 44°09'30" N, 145°56'12" E; Aug 1, 1994; N. Minakawa, R. I. Gara.

KU-94-NM-08: About 350 m from mouth of Ilyushina River; 44°09'30" N, 145°56'12" E; Aug 1, 1994; N. Minakawa, R. I. Gara.

KU-94-NM-10: About 450 m from mouth of Ilyushina River; 44°09'42" N, 145°56'00" E; Aug 1, 1994; N. Minakawa, R. I. Gara.

KU-94-NM-11, 13: Tributary of River Rikorda, northern bifurcation, just off east side of road; 43°51' N, 145°33' E; Aug 2, 1994; N. Minakawa, R. I. Gara.

KU-94-NM-16: Stream section above geothermal pools, 14 km west of Yuzhno-Kurilsk; 44°00'48" N, 145°41'06" E; Aug 3, 1994; N. Minakawa, R. I. Gara.

KU-94-NM-17: Prozhachnyi River, near broken coastal road bridge, 44°05'42" N, 145°53'18" E; Aug 3, 1994; N. Minakawa, R. I. Gara.

KU-94-NM-18: Lesnaya River, at roadside entrance for Kislyi Hot Springs, near junction with Kislyi river; 44°01.4' N, 145°44.1' E; Aug 4, 1994; N. Minakawa, R. I. Gara.

KU-94-NM-21: Western and southern shore of Lake Krugloye; 44°22'24" N, 146°25'12" E; Aug 23, 1994; N. Minakawa, R. I. Gara.

KU-94-TWP-07: Ilyushina River, about 350 m from mouth, in isolated, shallow, south branch; 44°09'30" N, 145°56'12" E; Jan 8, 1994; T. W. Pietsch, W. A. Palsson, B. K. Urbain, J. A. Lopez.

KU-94-VAT-01, 02: Western shore of Lake Aliger; 44°02'48" N, 145°44'24" E; Jul 31, 1994; V. A. Teslenko.

KU-94-VAT-03: Northern shore of Lake Aliger; 44°02'48" N, 145°44'24" E; Jul 31, 1994; V. A. Teslenko.

KU-94-VAT-04: Eastern shore of Lake Aliger; 44°02'48" N, 145°44'24" E; Jul 31, 1994; V. A. Teslenko.

KU-94-VAT-06, 07, 08: Ilyushina River, near mouth; 44°09'18" N, 145°56'30" N; Aug 1, 1994; V. A. Teslenko.

KU-94-VAT-09, 10, 11, 12: Tributary of River Rikorda, northern bifurcation, near main road; 43°51' N, 145°33' E; Aug 2, 1994; V. A. Teslenko.

KU-94-VAT-14, 15: Stream adjacent to geothermal pools, 14 km west of Yuzhno-Kurilsk; 44°00.48' N, 145°41.06' E; Aug 3, 1994; V. A. Teslenko.

KU-94-VAT-16, 17: Prozhachnyi River, about 1 km from mouth; 44°05'42" N, 145°53'18" E; Aug 3, 1994; V. A. Teslenko.

KU-94-VAT-19, 20: Lesnaya River, about 1km upriver from junction with Kislyi River; at roadside entrance for Kislyi Hot Springs; 44°01.4 N, 145°44.8 E; Aug 4, 1994; V. A. Teslenko.

KU-94-VAT-55: Western and southern shore of Lake Krugloye; 44°22'24" N, 146°25'12" E; Aug 23, 1994; V. A. Teslenko.

KU-94-VAT-56: Stream that flows into western part of Lake Krugloye; 44°22.30' N, 146°24.90' E Aug 23, 1994; V. A. Teslenko.

KU-95-PO-02, 03: Stream adjacent to geothermal pools, 14 km west of Yuzhno-Kurilsk; 44°00.47' N, 145°40.98' E; Aug 2, 1995; N. Minakawa, P. Oberg.

KU-95-PO-123: Lake Aliger; 44°02.83' N, 145°44.47' E; Sep 1, 1995; P. Oberg.

KU-95-PO-127: Stream that flows into Lake Lagunnoye; 44°03.06' N, 145°45.48' E; Sep 1, 1995; N. Minakawa.

KU-95-PO-128: Lesnaya River; about 200 m upriver from Lesnaya-Kislyi River merge point; 44°00.10' N, 145°46.00' E; Sep 2, 1995; N. Minakawa, P. Oberg, D. E. Hoekstra.

KU-95-VR-38: Aliger Lake; 44°03.13N, 145°44.68E; Sep 1, 1995; V. Roth.

KU-95-VAT-01, 02, 03: Stream adjacent to geothermal pools, 14 km west of Yuzhno-Kurilsk; 44°00.47' N, 145°40.98' E; Aug 2, 1995; V. A. Teslenko.

KU-95-VAT-69: Lesnaya River, near junction with Kislaya River; 44°00.72' N, 145°46.28' E; Sep 1, 1995; V. A. Teslenko.

KU-95-VAT-71: Lesnaya River, near junction with Kislaya River; 44°00.10' N, 145°46.00' E; Sep 1, 1995; V. A. Teslenko.

KU-96-NM-36, 43: Stream adjacent to geothermal pools, 14 km west of Yuzhno-Kurilsk; 44°00.25' N, 145°40.34' E; Aug 25, 1996; N. Minakawa, P. Oberg.

KU-96-PO-76: Aliger Lake; 44°02.59' N, 145°44.18' E; Aug 26, 1996; P. Oberg, N. Minakawa.

KU-97-BKU-06: Environs of geothermal pools, 17 km west of Yuzhno-Kurilsk, along side trail (not main trail up to road) that leads off from the northwest; 44°00.47' N, 145°41.00' E; Jul 27, 1997; B. K. Urbain.

KU-97-NM-01, 03: 70 m upstream from geothermal pools, 14 km west of Yuzhno-Kurilsk; 44°00.34' N, 145°40.99' E; Jul 27, 1997; N. Minakawa.

KU-97-TIR-01: 0-100 m upstream from geothermal pools, 14 km west of Yuzhno-Kurilsk; 44°00.47' N, 145°40.94' E; Jul 27, 1997; T. I. Ritchie.

KU-97-TIR-04: 0-200 m upstream from geothermal pools, 14 km west of Yuzhno-Kurilsk; 44°00.34' N, 145°40.99' E; Jul 27, 1997; T. I. Ritchie.

KU-97-VAT-01, 02, 03: Lesnaya River, about 1 km upstream from its junction with Kislyi River; 44°00.52' N, 145°45.45' E; Jul 27, 1997; V. A. Teslenko.

KU-97-VAT-05: About 1 km inland from shore of Yuzhno-Kurilsk; 44°01.52' N, 145°50.23' E; Jul 27, 1997; A.S. Lelej.

KU-98-BKU-73: Just off road near Lake Aliger; 44°03.17' N, 145°45.00' E; Aug 11, 1998; B. Urbain.

KU-98-DJB-79: Lake Aliger; 44°02.88' N, 145°44.48' E; Aug 11, 1998; D. Bennett.

KU-98-DJB-140: Along road leading to Lake Serebryanoye, about 3 km northwest of Yuzhno-Kurilsk; 44°03.15' N, 145°49.14' E; Aug 22, 1998; D. J. Bennett.

KU-98-TIA-65: Tributary of Kislyi River; Aug 22, 1998; T. I. Arefina.

KU-98-LJW-01: Upstream from geothermal pools, 14 km west of Yuzhno-Kurilsk; 44°00.41' N, 145°40.96' E; Jul 26, 1998; L. J. Weis, N. Minakawa.

KU-98-LJW-02, 04: Downstream from geothermal pools, 14 km west of Yuzhno-Kurilsk; 44°00.41' N, 145°40.96' E; Jul 26, 1998; L. J. Weis, N. Minakawa.

KU-98-LJW-06: Stream that flows into Dlinnoye Lake, Lovtsova Peninsula, northern part of Kruglovsky Isthmus; 44°24.74' N, 146°25.62' E; Jul 28, 1998; L. J. Weis, N. Minakawa.

KU-98-LJW-09, 10: Stream that flows into Dlinnoye Lake, Lovtsova Peninsula, northern Kruglovsky Isthmus; 44°24.02' N, 148°25.33' E; Jul 28, 1998; L. J. Weis, N. Minakawa.

KU-98-LJW-40, 41: Lesnaya River and Kislyi River near Kislyi Hot Springs; 44°00.87' N, 145°46.02' E; Aug 11, 1998; L. J. Weis.

KU-98-LJW-74: Lake Serebryanoye, about 3km northwest of Yuzhno-Kurilsk; 44°03.21' N, 145°48.92' E; Aug 22, 1998; L. J. Weis, N. Minakawa.

KU-98-LJW-75: Lake Serebryanoye, about 3km northwest of Yuzhno-Kurilsk; 44°03.09' N, 145°48.95' E; Aug 22, 1998; L. J. Weis, N. Minakawa.

- KU-98-VAT-01, 02: Stream adjacent to geothermal pools, 14 km west of Yuzhno-Kurilsk; 44°00.56' N, 145°40.91' E; Jul 26, 1998; V. A. Teslenko.
- KU-98-VAT-06: Stream that flows into western part of Dlinnoye Lake, Lovstova Peninsula, northern Kruglovsky Isthmus; 44°24.74' N, 146°25.62' E; Jul 28, 1998; V. A. Teslenko.
- KU-99-DJB-105: Environs of geothermal pools, 14 km west of Yuzhno-Kurilsk, base of trail in hot springs clearing and surrounding area; 44°00.39' N, 145°41.01' E; Aug 17, 1999; D. J. Bennett.
- KU-99-KLK-49: Swamp near shore of Alekhina Bay; 43°55.14' N, 145°32.34' E; Aug 19, 1999; N. Minakawa, K. L. Kurowski.
- KU-99-KLK-50, 51: Alekhina River, about 1 km from the mouth, Alekhina Bay; 43°55.19' N, 145°32.47' E; Aug 19, 1999; N. Minakawa, K. L. Kurowski.
- KU-99-KLK-52: Side pool of Alekhina River, about 0.7 km from the mouth, Alekhina Bay; 43°55.19' N, 145°32.47' E; Aug 19, 1999; N. Minakawa, K. L. Kurowski.
- KU-99-NM-18: Stream that flows into Peshchnoye Lake; 43°55.02' N, 145°37.83' E; Aug 17, 1999; N. Minakawa.
- KU-99-VAT-56: Eastern side of Peschanoye Lake; 43°55.15' N, 145°37.91' E; Aug 15, 1999; V. A. Teslenko.
- KU-99-VAT-57: Small stream that flows from Peschanoye Lake; 43°55.15' N, 145°37.91' E; Aug 15, 1999; V. A. Teslenko.
- KU-99-VAT-62: Alekhina River, about 0.8 km from the mouth, Alekhina Bay; 43°55' N, 145°32' E; Aug 19, 1999; V. A. Teslenko.
- KU-99-VAT-63: Alekhina River, about 1 km from the mouth, Alekhina Bay; 43°55.06' N, 145°32.38' E; Aug 19, 1999; V. A. Teslenko.

SHIKOTAN

- SH-94-RG-01: Tributary about 3.5 km from mouth of Svobodnaya River, Otradnaya Bay; Aug 8, 1994; N. Minakawa, R. I. Gara.
- SH-94-RG-03: Coastal stream that empties into Posodebari Inlet of Delfin Bay, between 0-75 m upstream from mouth; Aug 11, 1994; R. I. Gara, N. Minakawa.
- SH-94-TWP-03: Svobodnaya River, near river mouth in Otradnaya Bay, between 0-200 m upriver from Ostrovnoye Milk Farm; 43°51'06" N, 146°48'36" E; Aug 8, 1994; T.W. Pietsch, W.A. Palsson, B. K. Urbain, J.A. Lopez.
- SH-94-VAT-28, 29: Svobodnaya River, about 5 km from mouth, at confluence of two streams, Otradnaya Bay; Aug 8, 1994; V. A. Teslenko.
- SH-94-VAT-31, 32: Coastal stream that flows into Posodebari Inlet of Delfin Bay, between 0-75 m upstream from mouth; Aug 11, 1994; V. A. Teslenko.
- SH-98-BKU-91: Meadow, inland from small, unnamed inlet about 2/3 way in, on the south side of Delfin Bay; 43°45.03' N, 146°37.36' E; Aug 15, 1998; B. Urbain.
- SH-98-DJB-93: Inland from Dimitrova Bay, ridges, hillsides, and valleys within 1 km from shore; 43°47.69' N, 146°49.64' E; Aug 13, 1998; D. Bennett.
- SH-98-DJB-99: Inland from small inlet about 2/3 way in, on the south side of Delfin Bay, upland from stream valley; 43°44.96' N, 146°37.75' E; Aug 15, 1998; D. Bennett.
- SH-98-LJW-46: Stream that flows into Otradnaya Bay; 43°50.44' N, 146°48.89' E; Aug 12, 1998; L. J. Weis.
- SH-98-LJW-50: Stream that flows into Tserkovnaya Bay; 43°44.55' N, 146°42.76' E; Aug 14, 1998; L. J. Weis.
- SH-98-LJW-54, 55: Stream that flows into Zvezdnaya Bay; 43°46.73' N, 146°36.49' E; Aug 16, 1998; L. J. Weis.
- SH-98-LJW-56, 57: Stream that flows into Zvezdnaya Bay; 43°46.44' N, 146°36.58' E; Aug 16, 1998; L. J. Weis.
- SH-98-LJW-60: Stream that flows into Gorobets Bay; 43°49.18' N, 146°42.58' E; Aug 18, 1998; L. J. Weis, N. Minakawa.
- SH-98-LJW-61, 62: Marsh and ponds, inland from Gorobets Bay; 43°49.05' N, 146°42.68' E; Aug 18, 1998; L. J. Weis, N. Minakawa.
- SH-98-LJW-63: Marsh and ponds, inland from Gorobets Bay; 43°48.02' N, 146°42.95' E; Aug 18, 1998; L. J. Weis, N. Minakawa.
- SH-98-NM-30, 33: Stream that flows into Tserkovnaya Bay; 43°44.83' N, 146°41.98' E, Aug 14, 1998, N. Minakawa.
- SH-98-NM-35: Near the mouth of Ostrovnaya River, Delfin Bay; 43°45.11' N, 146°37.41' E; Aug 15, 1998; N. Minakawa.
- SH-98-VAT-42: Small stream that flows into Khromova Bay in southern Malokurilsk; 43°52.09' N, 146°48.52' E; Aug 12, 1998; V. A. Teslenko.
- SH-98-VAT-45: Small stream that flows into Dimitrova Bay, west of Solov' Oeva Cape; 43°47.64' N, 146°48.63' E; Aug 13, 1998; V. A. Teslenko.
- SH-98-VAT-47: Stream that flows into northeastern Srezhkova Bay; 43°47.59' N, 146°48.44' E; Aug 13, 1998; V. A. Teslenko.
- SH-98-VAT-49: Small pond, inland from Tserkovnaya Bay, before river from Tomari Mountain, the river flows into the central part of the bay; 43°44.85' N, 146°41.61' E; Aug 14, 1998; V. A. Teslenko.
- SH-98-VAT-50: Small drying pond inland from central part of Tserkovnaya Bay; 43°44.60' N, 146°41.50' E; Aug 14, 1998; V. A. Teslenko.
- SH-98-VAT-51: Small stream that flows into central part of Tserkovnaya Bay; 43°44.77' N, 146°41.49' E; Aug 14, 1998; V. A. Teslenko.
- SH-98-VAT-53: First tributary on the left side of Ostrovnaya River from the mouth, south-central part of Delfin Bay; 43°44.90' N, 146°39.00' E; Aug 15, 1998; V. A. Teslenko.

POLONSKOGO

- PO-98-DJB-135: Inland from western side; 43°38.38' N, 146°18.58' E; Aug 21, 1998; D. J. Bennett.
- PO-98-TIA-61, 64: Inland from western side, small unnamed lake, Moryakov Bay; Aug 21, 1998; T. I. Arefina.

ZELIONYI

- ZE-94-NM-02: Lake Utinoye, western finger of lake, northern shore; 43°29'24" N, 146°06'48" E; Aug 5, 1994; R. I. Gara, N. Minakawa.
- ZE-94-NM-03: Stream that flows into northeastern Lake Utinoye; 43°29'36" N, 146°07'54" E; Aug 6, 1994; R. I. Gara, N. Minakawa.
- ZE-94-NM-05: Southeastern shore of Lake Kamenskoye; 43°30'12" N, 146°06'12" E; Aug 6, 1994; R. I. Gara, N. Minakawa.
- ZE-94-RLC-04: Lake Utinoye, between 0-50 m west off southwestern shore; 43°48.0' N, 146°11.5' E; Aug 5, 1994; R. L. Crawford.
- ZE-94-VAT-21: Stream that flows into northwestern Lake Utinoye; 43°29'12" N, 146°06'42" E; Aug 5, 1994, 1994; V. A. Teslenko.
- ZE-94-VAT-24: Lake Utinoye, western finger of lake, northern shore; 43°29'24" N, 146°06'48" E; Aug 5, 1994; V. A. Teslenko.
- ZE-94-VAT-25: Stream that flows into Lake Utinoye at north northeastern corner; 43°29'36" N, 146°07'54" E; Aug 6, 1994; V. A. Teslenko.
- ZE-94-VAT-27: Southwestern shore of Lake Kamenskoye; 43°30'12" N, 146°06'12" E; Aug 6, 1994; V. A. Teslenko.
- ZE-98-LJW-70: Marsh near Lake Utinoye; 43°29.45' N, 146°06.54' E; Aug 20, 1998; L. J. Weis, N. Minakawa.

IURII

- IU-98-TIA-59: Lake near the sea shore, inland from Shyrokaya Bay; Aug 20, 1998; T. I. Arefina.

ANUCHINA

- AN-98-TIA-55: Stream, inland from Boshoy Bay, northern part of the island; Aug 19, 1998; T. I. Arefina.

TANFILYEVA

- TA-98-LJW-66: Shallow puddles, inland from Tanfilyevka Bay; 43°26.82' N, 145°54.36' E; Aug 19, 1998; L. J. Weis, N. Minakawa.
- TA-98-VAT-65: Lake near Russian military base, Tanfilyeva Bay; Aug 19, 1998; V. A. Teslenko.
- TA-98-TIA-57: Unnamed lake, Tanfilyeva Bay; Aug 19, 1998; T. I. Arefina.
- TA-98-TIA-58: Stream that flows into the lake, Tanfilyeva Bay; Aug 19, 1998; T. I. Arefina.