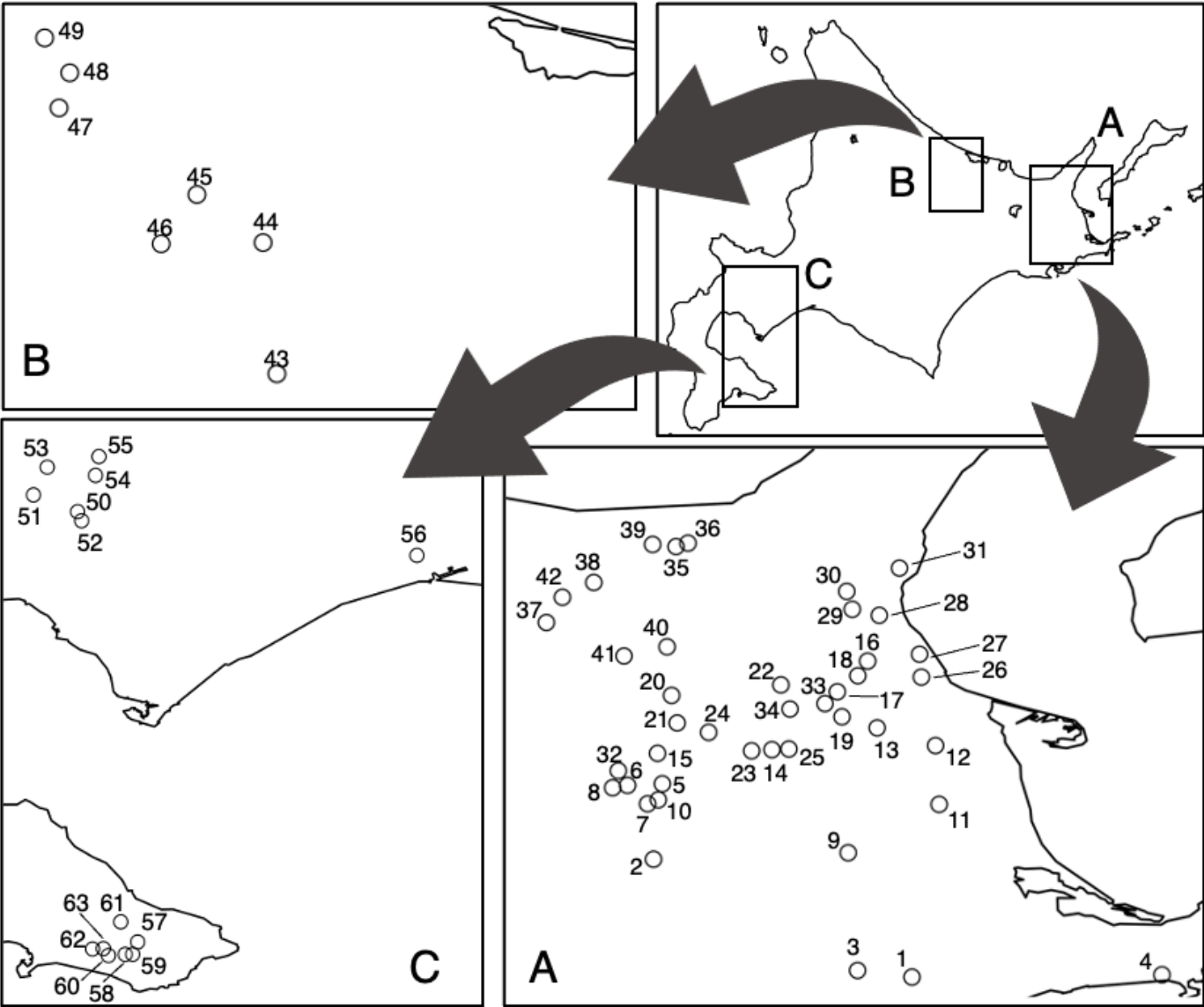




Title	Highly Threatened Status for the Relict Populations of Ectoparasitic Copepod <i>Salmincola californiensis</i> in Japan
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1 **Supplementary material 1.** Study sites where we captured and examined (a) masu salmon and (b) rainbow
2 trout for *Salmincola californiensis* in Hokkaido, Japan.
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Host species	Date	Region	River system	Tributary	Sample size	FL range (mean) in mm	No. in Figure
Masu salmon	July 2022	Eastern Hokkaido	Furen River	Anebetsu River	92	48–162 (72.1)	1
Masu salmon	July 2022	Eastern Hokkaido	Furen River	Nishifuren River	9	70–101 (86.6)	2
Masu salmon	July 2022	Eastern Hokkaido	Furen River	Marusa River	5	88–102 (95.2)	3
Masu salmon	July 2022	Eastern Hokkaido	Onnebetsu River	Mainstem	13	51–144 (88.7)	4
Masu salmon	July 2022	Eastern Hokkaido	Nishibetsu River	Unknown Tributary	41	54–205 (77.8)	5
Masu salmon	July 2022	Eastern Hokkaido	Nishibetsu River	Mainstem	59	47–200 (88.7)	6
Masu salmon	July 2022	Eastern Hokkaido	Nishibetsu River	Unknown Tributary	2	67–80 (73.5)	7
Masu salmon	July 2022	Eastern Hokkaido	Nishibetsu River	Unknown Tributary	33	54–166 (79.2)	8
Masu salmon	June 2022	Eastern Hokkaido	Tokotan River	Jutaro River	2	153–168 (160.5)	11
Masu salmon	July 2022	Eastern Hokkaido	Tohoro River	Mainstem	9	52–129 (70.6)	12
Masu salmon	June 2022	Eastern Hokkaido	Shibetsu River	Chinana River	2	145–158 (151.5)	13
Masu salmon	July 2022	Eastern Hokkaido	Shibetsu River	Pon-mataochi River	94	41–201 (83.9)	14
Masu salmon	July 2022	Eastern Hokkaido	Shibetsu River	Keneka River	94	39–174 (69.6)	15
Masu salmon	July 2022	Eastern Hokkaido	Shibetsu River	Shura River	30	50–151 (69.8)	16
Masu salmon	July 2022	Eastern Hokkaido	Shibetsu River	Ironebetsu River	32	49–144 (70.7)	17
Masu salmon	July 2022	Eastern Hokkaido	Shibetsu River	Urappu River	32	51–160 (74.2)	18
Masu salmon	July 2022	Eastern Hokkaido	Shibetsu River	Musa River	50	51–157 (88.5)	19
Masu salmon	July 2022	Eastern Hokkaido	Shibetsu River	Mainstem	78	35–145 (81.4)	20
Masu salmon	July 2022	Eastern Hokkaido	Shibetsu River	Shitabanobori River	31	47–108 (67.8)	21
Masu salmon	July 2022	Eastern Hokkaido	Shibetsu River	Kutekumbetsu River	6	67–83 (75.7)	22
Masu salmon	July 2022	Eastern Hokkaido	Shibetsu River	Arakawa River	56	47–153 (83.2)	23
Masu salmon	July 2022	Eastern Hokkaido	Shibetsu River	Kuma River	35	48–142 (71.5)	24
Masu salmon	July 2022	Eastern Hokkaido	Shibetsu River	Mataochi River	81	43–185 (69.7)	25
Masu salmon	July 2022	Eastern Hokkaido	Po River	Mainstem	209	50–186 (84.1)	26
Masu salmon	July 2022	Eastern Hokkaido	Po River	Ichani River	97	50–156 (83.3)	27
Masu salmon	July 2022	Eastern Hokkaido	Kotanuka River	Mainstem	31	52–124 (64.1)	28
Masu salmon	July 2022	Eastern Hokkaido	Kotanuka River	Tributary	43	49–161 (83.2)	29
Masu salmon	July 2022	Eastern Hokkaido	Kumbetsu River	Mainstem	42	63–177 (83.8)	30
Masu salmon	July 2022	Eastern Hokkaido	Motosakimui River	Pon-motosakimui River	30	48–168 (105.1)	31
Masu salmon	August 2023	Eastern Hokkaido	Nishibetsu River	Mainstem	24	79–190 (108.3)	32
Masu salmon	August 2023	Eastern Hokkaido	Shibetsu River	Kutekumbetsu River	48	58–144 (80.3)	33
Masu salmon	August 2023	Eastern Hokkaido	Shibetsu River	Musa River	17	93–159 (122.1)	34
Masu salmon	August 2023	Eastern Hokkaido	Shari River	Akinokawa Stream	22	73–117 (86.1)	35
Masu salmon	August 2023	Eastern Hokkaido	Shari River	Ikushina Stream	189	41–103 (66.1)	36
Masu salmon	August 2023	Eastern Hokkaido	Shari River	Sattsuru Stream	72	39–321 (75.0)	37
Masu salmon	August 2023	Eastern Hokkaido	Shari River	Etonbi Stream	133	47–544 (76.0)	38
Masu salmon	August 2023	Eastern Hokkaido	Shari River	Mizunashi Stream	35	60–330 (87.8)	39
Masu salmon	August 2023	Eastern Hokkaido	Shari River	Mainstem	23	87–134 (104.5)	40
Masu salmon	August 2023	Eastern Hokkaido	Shari River	Mainstem	47	47–123 (73.3)	41
Masu salmon	August 2023	Eastern Hokkaido	Shari River	Mainstem	122	38–121 (63.8)	42
Masu salmon	August 2023	Eastern Hokkaido	Tokoro River	Ifusanetta River	14	57–283 (103.1)	43
Masu salmon	August 2023	Eastern Hokkaido	Yubetsu River	Muri River	3	95–252 (150.0)	44
Masu salmon	August 2023	Eastern Hokkaido	Yubetsu River	Horokayubetsu	50	51–173 (74.1)	45
Masu salmon	July 2023	Southern Hokkaido	Shiribetsu River	Makkari Stream	107	50–121 (87.8)	50
Masu salmon	July 2023	Southern Hokkaido	Shiribetsu River	Unknown Tributary	9	69–214 (93.4)	51
Masu salmon	July 2023	Southern Hokkaido	Shiribetsu River	Nanbetsu Stream	12	88–117 (103.0)	52
Masu salmon	July 2023	Southern Hokkaido	Shiribetsu River	Sosuke Stream	32	51–161 (81.3)	53
Masu salmon	July 2023	Southern Hokkaido	Shiribetsu River	Unknown Tributary	24	57–113 (86.2)	54
Masu salmon	April 2021	Southern Hokkaido	Horonai River	Mainstem	239	69–214 (130.0)	56
Masu salmon	July 2019	Southern Hokkaido	Shiodomari River	Ito River	109	54–190 (108.8)	57
Masu salmon	July 2019	Southern Hokkaido	Shiodomari River	Gabinosawa Stream	30	49–118 (77.3)	58
Masu salmon	July 2019	Southern Hokkaido	Shiodomari River	Koyasusawa Stream	112	49–133 (71.6)	59
Masu salmon	July 2019	Southern Hokkaido	Shiodomari River	Nobirosawa Stream	49	61–193 (89.1)	60
Masu salmon	October 2019	Southern Hokkaido	Shiodomari River	Ito River	32	87–202 (143.3)	57
Masu salmon	October 2019	Southern Hokkaido	Shiodomari River	Koyasusawa Stream	14	139–223 (168.6)	59
Masu salmon	October 2019	Southern Hokkaido	Shiodomari River	Nobirosawa Stream	7	127–182 (156.7)	60

Host species	Date	Region	River system	Tributary	Sample size	FL range (mean) in mm	No. in Figure
Rainbow trout	July 2022	Eastern Hokkaido	Nishibetsu River	Mainstem	24	89–260 (146.8)	6
Rainbow trout	June 2022	Eastern Hokkaido	Nishibetsu River	Onnebetsu River	6	115–220 (169.0)	9
Rainbow trout	July 2022	Eastern Hokkaido	Nishibetsu River	Shiwanbetsu River	15	82–243 (147.7)	10
Rainbow trout	July 2022	Eastern Hokkaido	Shibetsu River	Ironnebetsu River	2	134–157 (145.5)	17
Rainbow trout	June and July 2022	Eastern Hokkaido	Shibetsu River	Musa River	7	114–181(132.9)	19
Rainbow trout	July 2022	Eastern Hokkaido	Shibetsu River	Shitabanobori River	2	63–90 (76.5)	21
Rainbow trout	July 2022	Eastern Hokkaido	Shibetsu River	Arakawa River	1	116	23
Rainbow trout	August 2023	Eastern Hokkaido	Nishibetsu River	Mainstem	3	115–146 (133.0)	32
Rainbow trout	August 2023	Eastern Hokkaido	Shibetsu River	Kutekunbetsu River	4	61–163 (108.0)	33
Rainbow trout	August 2023	Eastern Hokkaido	Tokoro River	Ifusanetta River	18	41–214 (120.4)	43
Rainbow trout	August 2023	Eastern Hokkaido	Yubetsu River	Muri River	9	53–75 (66.6)	44
Rainbow trout	August 2023	Eastern Hokkaido	Yubetsu River	Shiyubetsu River	22	55–126 (66.0)	46
Rainbow trout	August 2023	Eastern Hokkaido	Shokotsu River	Mainstem	13	43–208(97.2)	47
Rainbow trout	August 2023	Eastern Hokkaido	Shokotsu River	Kumadezawa River	18	33–140 (79.2)	48
Rainbow trout	August 2023	Eastern Hokkaido	Shokotsu River	Sakuru River	19	45–199 (99.8)	49
Rainbow trout	July 2023	Southern Hokkaido	Shiribetsu River	Makkari Stream	35	36–223 (94.1)	50
Rainbow trout	July 2023	Southern Hokkaido	Shiribetsu River	Unknown Tributary	4	95–208 (124.3)	51
Rainbow trout	July 2023	Southern Hokkaido	Shiribetsu River	Nanbetsu Stream	1	262	52
Rainbow trout	July 2023	Southern Hokkaido	Shiribetsu River	Unknown Tributary	4	142–185 (157.8)	54
Rainbow trout	July 2023	Southern Hokkaido	Shiribetsu River	Garu Stream	2	148–218 (88.0)	55
Rainbow trout	April 2021	Southern Hokkaido	Horonai River	Mainstem	129	69–352 (173.1)	56
Rainbow trout	May 2019	Southern Hokkaido	Shiodomari River	Gabinosawa Stream	1	139	58
Rainbow trout	May 2019	Southern Hokkaido	Shiodomari River	Koyasusawa Stream	2	125–129 (127.0)	59
Rainbow trout	May 2019	Southern Hokkaido	Shiodomari River	Nobirosawa Stream	10	108–145 (128.6)	60
Rainbow trout	May 2019	Southern Hokkaido	Shiodomari River	Mainstem	15	119–295 (149.9)	63
Rainbow trout	October 2019	Southern Hokkaido	Shiodomari River	Gabinosawa Stream	7	161–327(196.5)	58
Rainbow trout	October 2019	Southern Hokkaido	Shiodomari River	Koyasusawa Stream	3	172–187 (179.3)	59
Rainbow trout	October 2019	Southern Hokkaido	Shiodomari River	Nobirosawa Stream	2	90–156 (123.0)	60
Rainbow trout	February 2020	Southern Hokkaido	Shiodomari River	Gabinosawa Stream	6	93–273 (201.3)	58
Rainbow trout	February 2020	Southern Hokkaido	Shiodomari River	Koyasusawa Stream	10	102–257 (167.2)	59
Rainbow trout	February 2020	Southern Hokkaido	Shiodomari River	Nobirosawa Stream	54	76–313 (169.8)	60
Rainbow trout	February 2020	Southern Hokkaido	Shiodomari River	Sasagoya Stream	1	208	61
Rainbow trout	July 2021	Southern Hokkaido	Shiodomari River	Menasawa Stream	3	178–307 (224.3)	62