

Supplement Table1 Permission number of seal samplings conducted in the present study

Location ^{a)}	Species	Permit issuer	Permission number
Cape Erimo (A)	Harbor seal	Japanese Ministry of the Environment	Nos. 21-24-0205, 21-26-0123, 21-26-0022, 21-27-0001, 21-28-0003, 21-29-0165, 21-31-0018
	Spotted seal	Hokkaido Government	No. 30
Nemuro (B)	Spotted seal	Japanese Ministry of the Environment	Nos. 16-093, 17-015
Akkeshi (C)	Harbor seal	Japanese Ministry of the Environment	No. 12-147, 16-032
	Ribbon seal	Hokkaido Government	No. 433
	Ringed seal	Hokkaido Government	No. 433
Rebun Island (D)	Spotted seal	Hokkaido Government	No. 344
Bakkai (E)	Spotted seal	Hokkaido Government	No. 344
Soya (F)	Spotted seal	Hokkaido Government	No. 30
Teuri Island (G)	Spotted seal	Japanese Ministry of the Environment	No. 21-28-0065
Rausu (H)	Spotted seal	Hokkaido Government	No. 92
Hidaka (I)	Ribbon seal	Hokkaido Government	No. 433

a) Capital letters in parentheses refer to the sampling locations in Fig.1.