Supplementary Information

Table S1
Zoobenthos model comparison based on Akaike Information Criteria (AIC), Bayesian Information Criteria (BIC), and the log-likelihood ratio test.

Model	AIC	BIC	Log-likelihood	p-values
Model 1: Month	2407	2508	-1169.7	
Model 2: Month + Accessibility	2403	2522	-1161.6	0.0128
Model 3: Month × Accessibility	2364	2501	-1136.0	< 0.001

Table S2
Parameter estimates (95% Wald confidence intervals) of the best overall model (i.e., Model 3).
Month and Accessibility variables were dummy coded with June and accessible habitat as the reference category, respectively.

Taxonomic group	Intercept	Month	Accessibility	Month × Accessibility
Anisoptera	3.51 (3.26; 3.76)	0.73 (0.58; 0.89)	0.65 (0.27; 1.02)	-0.10 (-0.30; 0.10)
Chironomidae	1.9 (1.52; 2.27)	0.43 (0.07; 0.79)	0.84 (0.32; 1.36)	-0.54 (-1.02; -0.07)
Ephemeroptera	3.72 (3.38; 4.05)	-0.09 (-0.25; 0.07)	0.91 (0.39; 1.42)	-0.17 (-0.038; 0.03)
Gammaridae	5.32 (5.17; 5.47)	-0.07 (-0.15; 0.00)	-0.06 (-0.29; 0.17)	0.28 (0.17; 0.39)
Trichoptera	1.88 (1.49; 2.28)	1.69 (1.39; 1.98)	0.50 (-0.08; 1.08)	0.42 (0.01; 0.82)
Zygoptera	2.97 (2.61; 3.33)	1.14 (0.96; 1.33)	0.47 (-0.07; 1.01)	0.48 (0.24; 0.73)

Table S3

Abundances predicted by the best overall model (i.e., Model 3). D (difference): predicted abundance in inaccessible habitat minus predicted abundance in accessible habitat. R (ratio): predicted abundance in inaccessible habitat divided by predicted abundance in accessible habitat.

Taxonomic group	June	September						
	Accessibility		D	R	Accessibility		D	R
	No	Yes	U	N.	No	Yes	U	
Anisoptera	64	33	31	1.9	120	70	50	1.7
Chironomidae	15	7	8	2.1	14	10	4	1.4
Ephemeroptera	102	41	61	2.5	78	38	40	2.1
Gammaridae	192	204	-12	0.9	237	190	47	1.2
Trichoptera	11	7	4	1.6	89	35	54	2.5
Zygoptera	31	20	11	1.6	159	61	98	2.6

Figure S1 Map of count data by taxonomic group and period (June: 06; September: 09).

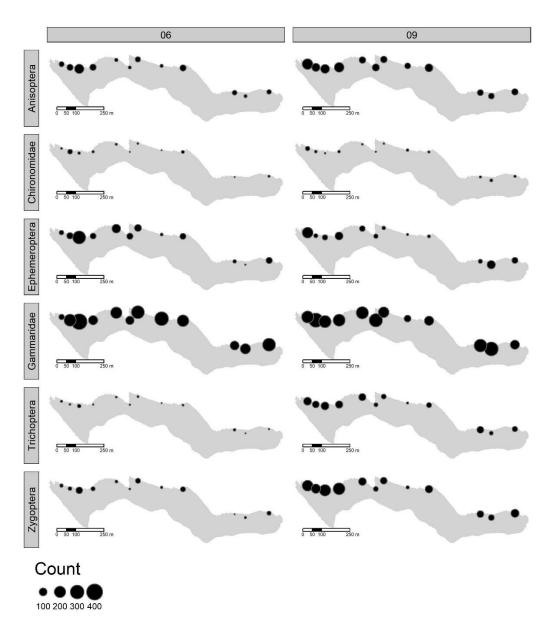


Figure S2
Fish positions for two consecutive seasons (i.e., summer 2016 [red] and winter 2017 [blue]). Only fish having at least one complete season are represented. (VR2 VEMCO Positioning System data only).

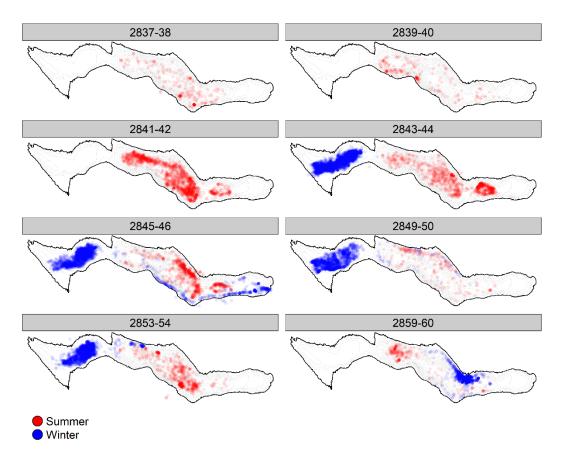


Figure S3

Home range estimates as a function of sample size at three isopleth levels (i.e., 0.5, 0.9, and 0.95). Horizontal dashed line refers to lake area. Vertical dashed line refers to 40,000 positions.

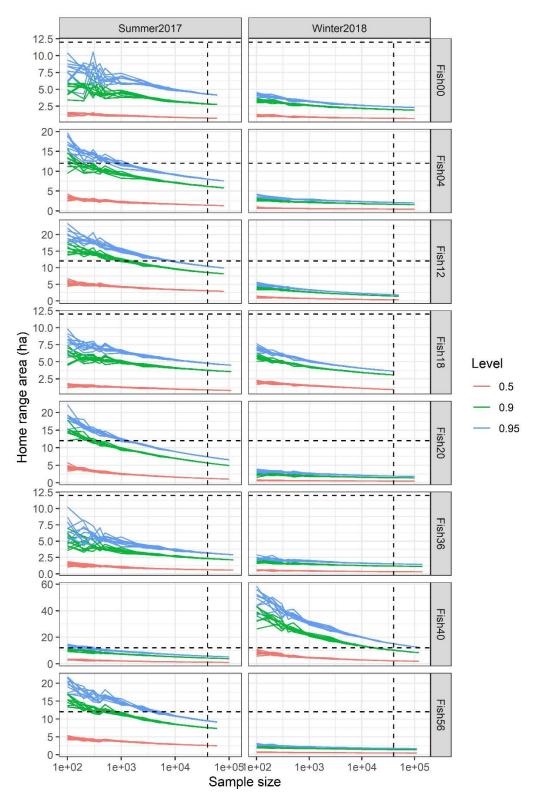


Figure S4
Visualization of home-range areas at three isopleth levels (i.e., 0.5, 0.9, 0.95). Home range is calculated based on 40,000 random positions for each season. Only fish having at least two complete seasons are shown (HR2 VEMCO Positioning System data only).

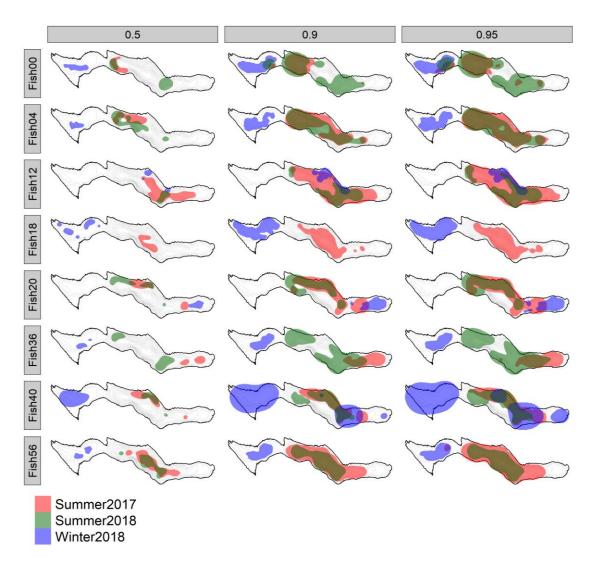


Figure S5
Boxplot of within-individual home-range overlap across seasons. The utilization distribution overlap index (UDOI) was calculated at the 0.9 isopleth level for seven (summer2017—

