

Supplementary Data for

Intracolony variability in winter feeding and migration strategies of Atlantic puffins and black-legged kittiwakes

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Table S1. Description of the parameters used to characterize the environmental conditions within the ecoregions.

Parameter	Data source	Spatial resolution	Temporal window
<i>Sea surface temperature (°C)</i>	marine.copernicus.eu/global-reanalysis-phy-001-030	0.083°	February
<i>Chla concentrations (mg m⁻³)</i>	globcolour.info/dataset-oc-glo-bio-multi-l4-chl	4 km	Apr to Sep yr -1
<i>Wind speed (m s⁻¹)</i>	marine.copernicus.eu/CERSAT-GLO-REP WIND L4-OBS	0.25°	February
<i>Mixed layer depth (m)</i>	marine.copernicus.eu/global-reanalysis-phy-001-030	0.083°	February

Table S2. Environmental data (mean values) for the East Iceland (EI), West Norwegian Sea (WNS), South Iceland (SI) and East Labrador Sea (ELS) ecoregions during the winter moulting period of the three groups of puffins (AP) and two groups of kittiwakes (BLK) during winters 2017-2019.

Species/ Ecoregion	Chlorophyll-a (mg·m⁻³)	Mixed layer depth (m)	Sea surface temperature (°C)	Wind speed (m·s⁻¹)
AP Group 1 (EI)	0.84	110	4.39	10.58
AP Group 2 (WNS)	0.40	184	4.95	10.55
AP Group 3 (SI)	0.56	414	8.35	11.61
BLK Group 1 & 2 (ELS)	0.91	102	5.98	12.30