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Supplementary material
Figure A1. Histogram of horizontal ground speed of rhinoceros auklets obtained from GPS loggers. Data were pooled from 10 round-trips by 10 birds. The black arrow indicates the cut off value of 10 m s⁻¹, which was used as the threshold of flying speed.
Figure A2. Relationship of wingbeat frequency (A), swimming speed (B) and Strouhal number (C) with current depth. Swimming speed and wingbeat frequency for each class of current depth was calculated based on individual mean values (n=11 for 5-10 m, 10-20 m, and 20-30 m, n=9 for 30-40 m, n=8 for 40-50 m, and n=2 for 50-60 m). Circle indicate mean value, and error bar shows s.d. Strouhal number was calculated based on mean wingbeat frequency and swimming speed for each class of current depth, and assuming the constant wingbeat amplitude (0.18 m). The gray zone indicates the range of Strouhal numbers for high propulsive efficiency.