**Supplementary material for:** Kulaszewicz I. & Jakubas D. Influence of nest burrow microclimate on chick growth in a colonial High-Arctic seabird, the little auk. *Polar Research 37.* Contact: University of Gdańsk, Department of Vertebrate Ecology and Zoology, Wita Stwosza 59, 80-308 Gdańsk, Poland. E-mail: bioik@univ.gda.pl

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**Supplementary Fig. 1.** Location of three loggers inside nest chamber, shown in side view.

**Supplementary Table S1**. Nest temperature (mean ± SE, amplitude [maximum–minimum]) in particular in the three phases studied and mean amplitude differences (compared to highest temperature). The nest with the highest temperatures recorded is shown in boldface.

|  |  |  |
| --- | --- | --- |
|  |  | Nest temperature (°C) |
|  | Altitude(m a.s.l.) | Chick-rearing phase 1 | Chick-rearing phase 2 | Post-breeding period |
| Nest ID | Mean ± SE | Amplitude (max–min) | Mean ± SE | Amplitude (max–min) | Mean ± SE | Amplitude (max–min) |
| N1 | 52 | 6.82 ± 0.051 | - 1.65 | 5.48 ± 0.056 | - 2.29 | 4.48 ± 0.043 | - 1.79 |
| N2 | 61 | 8.22 ± 0.062 | - 0.25 | 7.11 ± 0.034 | - 0.66 | 4.82 ± 0.028 | - 1.45 |
| N3 | 42 | 5.41 ± 0.045 | - 3.06 | 4.38 ± 0.021 | - 3.39 | 3.71 ± 0.042 | - 2.56 |
| N4 | 46 | 5.51 ± 0.043 | - 2.96 | 4.49 ± 0.043 | - 3.28 | 3.96 ± 0.032 | - 2.31 |
| N5 | 59 | 6.01 ± 0.031 | - 2.46 | 5.24 ± 0.065 | - 2.53 | 4.41 ± 0.008 | - 1.86 |
| N6 | 62 | 7.28 ± 0.034 | - 1.19 | 5.78 ± 0.022 | - 1.99 | 5.01 ± 0.077 | - 1.26 |
| N7 | 54 | 7.72 ± 0.054 | - 0.75 | 6.76 ± 0.037 | - 1.01 | 5.42 ± 0.040 | - 0.85 |
| **N8** | **74** | **8.47 ± 0.064** |  **0.00** | **7.77 ± 0.034** |  **0.00** | **6.27 ± 0.085** |  **0.00** |
| N9 | 64 | 8.08 ± 0.033 | - 0.39 | 6.78 ± 0.055 | - 0.99 | 4.88 ± 0.026 | - 1.39 |
| N10 | 67 | 8.42 ± 0.063 | - 0.05 | 7.17 ± 0.065 | - 0.60 | 5.88 ± 0.052 | - 0.39 |
| Inter-nest amplitude |  | - 1.28 ± 0.27 |  | - 1.67 ± 0.29 |  | - 1.39 ± 0.21 |