

## Supporting Materials

### The effect of neckbands on the pairing status of Greater White-fronted geese *Anser albifrons*



**Figure S1.** Location of the “Kologrivskaya Poima” Regional Nature Reserve (map data © Google Earth 2021, 2022).

**Table S1.** Duration of wearing a neckband (up to the day of the video recording) and ringing location for neck-banded Greater White-fronted Geese included in the study.

| Neckband code | Ringing location                               | Ringing date | Age on ringing | No. years from fitting the neckband to the observation date |
|---------------|------------------------------------------------|--------------|----------------|-------------------------------------------------------------|
| AK6           | Kologriv, Russia (migration stopover)          | 06.05.2013   | Ad             | 10                                                          |
| AK5           | Kologriv, Russia (migration stopover)          | 06.05.2013   | Ad             | 9                                                           |
| ZYG           | Kologriv, Russia (migration stopover)          | 09.05.2015   | Ad             | 8                                                           |
| SG9           | Kologriv, Russia (migration stopover)          | 10.05.2017   | Ad             | 6                                                           |
| SK4           | Kologriv, Russia (migration stopover)          | 10.05.2017   | Ad             | 6                                                           |
| 1S8           | Kolguev Island, Russia (moulting grounds)      | 10.08.2017   | Ad             | 6                                                           |
| SP8           | Kologriv, Russia (migration stopover)          | 09.05.2018   | Ad             | 5                                                           |
| SZ1           | Kolguev Island, Russia (moulting grounds)      | 07.08.2018   | Ad             | 5                                                           |
| H6A           | Marren-Kessel, Netherlands (wintering grounds) | 25.12.2018   | Ad             | 4.5                                                         |
| E9G           | Skarsterland, Netherlands (wintering grounds)  | 04.01.2019   | Juv            | 4.5                                                         |
| SL5           | Kologriv, Russia (migration stopover)          | 03.05.2018   | Ad             | 4                                                           |
| SJ8           | Kologriv, Russia (migration stopover)          | 05.05.2019   | Juv            | 4                                                           |
| ST2           | Kologriv, Russia (migration stopover)          | 08.05.2019   | Ad             | 4                                                           |
| ST6           | Kologriv, Russia (migration stopover)          | 08.05.2019   | Ad             | 4                                                           |
| SZ8           | Kologriv, Russia (migration stopover)          | 08.05.2019   | Ad             | 4                                                           |
| G1A           | Kologriv, Russia (migration stopover)          | 10.05.2019   | Ad             | 4                                                           |
| SH5           | Kologriv, Russia (migration stopover)          | 04.05.2019   | Ad             | 3                                                           |
| G1R           | Kolguev Island, Russia (moulting grounds)      | 01.08.2019   | Ad             | 3                                                           |
| R2H           | Skarsterland, Netherlands (wintering grounds)  | 30.11.2019   | Ad             | 2.5                                                         |

**Table S1** (*continued*).

| Neckband code                        | Ringling location                     | Ringling date | Age on ringling | No. years from fitting the neckband to the observation date |
|--------------------------------------|---------------------------------------|---------------|-----------------|-------------------------------------------------------------|
| A94                                  | Kologriv, Russia (migration stopover) | 10.05.2021    | Ad              | 2                                                           |
| G5G                                  | Kologriv, Russia (migration stopover) | 11.05.2021    | Ad              | 1                                                           |
| S2C                                  | Kologriv, Russia (migration stopover) | 05.05.2022    | Ad              | 1                                                           |
| S2P                                  | Kologriv, Russia (migration stopover) | 05.05.2022    | Ad              | 1                                                           |
| S2V                                  | Kologriv, Russia (migration stopover) | 07.05.2022    | Ad              | 1                                                           |
| S3S                                  | Kologriv, Russia (migration stopover) | 07.05.2022    | Ad              | 1                                                           |
| Average time with a neckband (years) |                                       |               |                 | 4.1                                                         |

**Table S2.** Percentage of time spent by the focal goose at a distance of < 2 m from its supposed partner.

| Neck-banded geese |                                               |                                    |                | Unmarked geese |                                               |                                    |                |
|-------------------|-----------------------------------------------|------------------------------------|----------------|----------------|-----------------------------------------------|------------------------------------|----------------|
| Neckband code     | Total time the focal bird was monitored (min) | % time < 2 m from supposed partner | Pairing status | Video number   | Total time the focal bird was monitored (min) | % time < 2 m from supposed partner | Pairing status |
| AK5               | 26.5                                          | 100                                | paired         | 1              | 28                                            | 97                                 | paired         |
| AK6               | 20                                            | 88                                 | paired         | 2              | 19                                            | 89                                 | paired         |
| G1A               | 28                                            | 78                                 | paired         | 3              | 21                                            | 85                                 | paired         |
| G5G               | 24.5                                          | 84                                 | paired         | 4              | 20                                            | 93                                 | paired         |
| H6A               | 27                                            | 98                                 | paired         | 5              | 20                                            | 80                                 | paired         |
| R2H               | 30                                            | 100                                | paired         | 6              | 30                                            | 75                                 | paired         |
| S2C               | 28.5                                          | 100                                | paired         | 7              | 22                                            | 86                                 | paired         |
| S2P               | 30                                            | 88                                 | paired         | 8              | 21                                            | 76                                 | paired         |
| SG9               | 22                                            | 74                                 | paired         | 9              | 25                                            | 83                                 | paired         |
| SH5               | 30                                            | 100                                | paired         | 10             | 22                                            | 93                                 | paired         |
| SJ8               | 20                                            | 91                                 | paired         | 11             | 29                                            | 88                                 | paired         |
| SK4               | 27.5                                          | 91                                 | paired         | 12             | 24                                            | 87                                 | paired         |
| SP8               | 30                                            | 75                                 | paired         | 13             | 28.5                                          | 90                                 | paired         |
| ST2               | 27                                            | 98                                 | paired         | 14             | 30                                            | 82                                 | paired         |
| ST6               | 23                                            | 100                                | paired         | 15             | 23                                            | 96                                 | paired         |
| SZ1               | 18.5                                          | 76                                 | paired         | 16             | 21                                            | 79                                 | paired         |
| SZ8               | 18.5                                          | 75                                 | paired         | 17             | 26                                            | 76                                 | paired         |
| ZYG               | 21                                            | 88                                 | paired         | 18             | 25                                            | 92                                 | paired         |
| 94                | 30                                            | < 74                               | single         | 19             | 23                                            | 98                                 | paired         |
| 1S8               | 26.5                                          | < 74                               | single         | 20             | 29                                            | 95                                 | paired         |
| E9G               | 17                                            | < 74                               | single         | 21             | 23                                            | < 74                               | single         |
| G1R               | 29                                            | < 74                               | single         | 22             | 21                                            | < 74                               | single         |
| S2V               | 26                                            | < 74                               | single         | 23             | 20                                            | < 74                               | single         |
| S3S               | 21                                            | < 74                               | single         | 24             | 22                                            | < 74                               | single         |
| SL5               | 7                                             | < 74                               | single         | 25             | 20.5                                          | < 74                               | single         |