

Temporal patterns in offshore bird abundance during the breeding season at the Dutch North Sea coast

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ESM 4; Missing observations hours

In total, the study period in 2019 and 2020 contained 3648 observation hours, of which 1769 hours were removed from the final dataset due to high radar filtering or the radar being offline (see Methods). These missing observation hours were not distributed equally over time, and created larger gaps of missing data in some weeks than in others. Table 1 shows the number of missed observation hours per week in the breeding season for the individual seasons (2019 and 2020) and the number of hours in which a gap exists in both seasons for a specific day and hour. In particular, weeks 2, 3, and 9 have a large number of missing data (more than a third of total observation hours per week missing in both seasons).

Table 1 Number of missing hours per week in the breeding season for both seasons (2019 and 2020), and the number of missing hours that overlap in both seasons

| Week | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | Total |
|---------|-----|-----|----|-----|----|----|----|----|-----|-----|----|-------|
| 2019 | 83 | 81 | 84 | 50 | 45 | 80 | 80 | 74 | 128 | 48 | 72 | 825 |
| 2020 | 114 | 160 | 90 | 102 | 63 | 99 | 18 | 16 | 129 | 122 | 31 | 944 |
| Overlap | 41 | 80 | 60 | 11 | 24 | 52 | 7 | 6 | 96 | 20 | 20 | 417 |