Long-term trends in the occupancy of ants revealed through use of multi-sourced datasets

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**Table S1: Species list**

Overview of all native species found in Denmark, including first and last detection year, number of detections in each dataset and the total number of detections.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| species | decades |  | years |  | detections |
|  | first | last | total (n) |  | Ant Hunt | EuroAnts | Holgersen | NHM Aarhus | NHM Denmark | Schär | Skøtt | total |
| *Camponotus herculeanus* | 9 |  | 1913 | 2015 | 30 |  |  | 2 |  | 2 | 36 | 1 | 4 | 45 |
| *Camponotus ligniperda* | 6 |  | 1929 | 2015 | 9 |  |  |  |  | 1 | 7 | 1 | 1 | 10 |
| *Formica cinerea* | 9 |  | 1909 | 2018 | 30 |  | 6 |  | 2 |  | 55 |  | 9 | 72 |
| *Formica clara* | 1 |  | 2012 | 2018 | 2 |  | 4 | 1 |  |  |  |  |  | 5 |
| *Formica cunicularia* | 5 |  | 1942 | 1994 | 16 |  |  |  |  |  | 22 |  |  | 22 |
| *Formica exsecta* | 8 |  | 1908 | 2017 | 36 |  | 1 |  | 1 | 3 | 43 | 2 | 33 | 83 |
| *Formica foreli* | 1 |  | 2012 | 2019 | 3 |  |  | 3 |  |  |  | 1 |  | 4 |
| *Formica forsslundi* | 2 |  | 1974 | 1989 | 2 |  |  |  |  |  | 2 |  |  | 2 |
| *Formica fusca* | 12 |  | 1901 | 2019 | 77 |  | 85 | 5 | 1 | 37 | 196 | 3 | 84 | 411 |
| *Formica gagatoides* | 2 |  | 1964 | 1972 | 3 |  |  |  |  | 2 | 2 |  |  | 4 |
| *Formica lugubris* | 2 |  | 1941 | 2018 | 2 |  | 1 |  |  |  | 1 |  |  | 2 |
| *Formica picea* | 8 |  | 1935 | 2019 | 32 |  | 1 | 2 | 1 |  | 28 | 2 | 43 | 77 |
| *Formica polyctena* | 10 |  | 1914 | 2019 | 52 |  | 34 | 6 |  |  | 109 | 3 |  | 152 |
| *Formica pratensis* | 10 |  | 1908 | 2017 | 36 |  | 1 |  |  | 3 | 47 |  | 16 | 67 |
| *Formica pressilabris* | 7 |  | 1939 | 2017 | 32 |  | 1 | 2 | 1 | 1 | 40 |  | 13 | 58 |
| *Formica rufa* | 11 |  | 1908 | 2018 | 68 |  | 7 | 3 |  | 50 | 154 | 3 | 87 | 304 |
| *Formica rufibarbis* | 10 |  | 1909 | 2019 | 55 |  | 4 | 5 |  | 2 | 128 | 4 | 12 | 155 |
| *Formica sanguinea* | 8 |  | 1935 | 2018 | 48 |  | 2 | 2 |  | 3 | 101 | 1 | 41 | 150 |
| *Formica truncorum* | 8 |  | 1918 | 2017 | 27 |  | 2 |  |  | 2 | 37 | 1 | 4 | 46 |
| *Formica uralensis* | 7 |  | 1938 | 2019 | 20 |  |  | 3 | 1 | 1 | 48 | 1 | 29 | 83 |
| *Formicoxenus nitidulus* | 7 |  | 1912 | 2012 | 19 |  |  |  |  | 1 | 21 | 1 | 3 | 26 |
| *Harpagoxenus sublaevis* | 2 |  | 1964 | 1974 | 6 |  |  |  |  |  | 9 |  | 7 | 16 |
| *Hypoponera punctatissima* | 6 |  | 1944 | 2017 | 9 |  | 1 |  |  |  | 18 |  | 9 | 28 |
| *Lasius brunneus* | 6 |  | 1907 | 2019 | 8 |  |  | 1 |  | 1 | 8 |  |  | 10 |
| *Lasius flavus* | 9 |  | 1903 | 2019 | 48 |  | 22 | 6 | 1 | 16 | 71 | 4 | 52 | 172 |
| *Lasius fuliginosus* | 11 |  | 1908 | 2019 | 54 |  | 11 | 5 | 2 | 14 | 79 | 1 | 21 | 133 |
| *Lasius meridionalis* | 8 |  | 1935 | 2015 | 25 |  |  |  |  |  | 36 | 6 |  | 42 |
| *Lasius mixtus* | 7 |  | 1913 | 1971 | 10 |  |  |  |  |  | 12 |  | 2 | 14 |
| *Lasius niger* | 11 |  | 1903 | 2019 | 77 |  | 323 | 5 | 3 | 37 | 196 | 6 | 90 | 660 |
| *Lasius platythorax* | 1 |  | 2012 | 2018 | 5 |  | 41 | 7 |  |  |  | 4 |  | 52 |
| *Lasius psammophilus* | 1 |  | 2012 | 2019 | 6 |  | 2 | 4 |  |  |  | 4 |  | 10 |
| *Lasius umbratus* | 11 |  | 1900 | 2019 | 51 |  | 1 | 4 |  | 13 | 60 | 4 | 8 | 90 |
| *Leptothorax acervorum* | 10 |  | 1924 | 2019 | 42 |  |  | 5 |  | 6 | 84 | 6 | 88 | 189 |
| *Leptothorax muscorum* | 2 |  | 1971 | 1993 | 4 |  |  |  |  |  | 2 |  | 2 | 4 |
| *Myrmecina graminicola* | 1 |  | 1970 | 1970 | 1 |  |  |  |  | 1 |  |  |  | 1 |
| *Myrmica lobicornis* | 7 |  | 1933 | 2017 | 32 |  | 2 |  |  | 1 | 35 | 1 | 14 | 53 |
| *Myrmica rubra* | 11 |  | 1902 | 2019 | 70 |  | 37 | 4 | 1 | 49 | 158 | 7 | 46 | 302 |
| *Myrmica ruginodis* | 10 |  | 1904 | 2019 | 66 |  | 35 | 7 | 1 | 106 | 126 | 4 | 81 | 360 |
| *Myrmica rugulosa* | 10 |  | 1913 | 2018 | 48 |  | 6 |  |  | 18 | 62 | 4 | 18 | 108 |
| *Myrmica sabuleti* | 10 |  | 1911 | 2019 | 47 |  | 4 | 4 |  | 2 | 93 | 4 | 15 | 122 |
| *Myrmica scabrinodis* | 11 |  | 1901 | 2017 | 63 |  | 4 | 5 | 1 | 26 | 108 | 6 | 39 | 189 |
| *Myrmica schencki* | 7 |  | 1936 | 2018 | 28 |  | 3 |  |  | 1 | 39 |  | 6 | 49 |
| *Myrmica specioides* | 3 |  | 1941 | 2012 | 3 |  |  | 1 |  |  | 2 | 1 |  | 4 |
| *Myrmica sulcinodis* | 5 |  | 1936 | 1973 | 10 |  |  |  |  | 1 | 12 |  | 12 | 25 |
| *Stenamma debile* or *S. westwoodii* | 2 |  | 1958 | 1995 | 2 |  |  |  |  | 1 | 1 |  |  | 2 |
| *Temnothorax interruptus* | 3 |  | 1969 | 1980 | 3 |  |  |  |  |  | 5 |  |  | 5 |
| *Temnothorax nylanderi* | 2 |  | 1988 | 2012 | 2 |  |  | 1 |  |  | 1 |  |  | 2 |
| *Temnothorax parvulus* | 1 |  | 2012 | 2012 | 1 |  |  | 1 |  |  |  |  |  | 1 |
| *Temnothorax tuberum* | 3 |  | 1942 | 1985 | 4 |  |  |  |  |  | 5 |  |  | 5 |
| *Tetramorium atratulum* | 1 |  | 1942 | 1942 | 1 |  |  |  |  |  | 1 |  |  | 1 |
| *Tetramorium caespitum* | 11 |  | 1903 | 2019 | 50 |  | 25 | 4 | 2 | 7 | 79 | 2 | 51 | 170 |