New records of spiders and insects for NE Fennoscandia (Murmansk Region, Russia)

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Three arthropod species have been observed for the first time in Murmansk Region. All these species are widespread in western and central Europe and frequently occur in southern Fennoscandia, getting rare towards the north. New occurrences are among the northernmost for these taxa in Europe. The studies have been done in the years 2006–2012 predominately in central part of Murmansk Region in the north-taiga forest zone. Two records have been made in plant communities with rare Orchidaceae species, inside or on the flowers of orchids. The presence of the found spiders and the solitary bees is common in orchid consortia in Europe: *Misumena vatia* is an ambush predator of various insects, while *Andrena haemorrhhoa* is a classical pollinator vector for *Cypripedium calceolus*.

We recommend that *Andrena haemorrhhoa*, *Misumena vatia* and *Pasiphila rectangulata* are to be included in the next edition of the Red Data Book of Murmansk Region with the status of critically endangered species (CR).

**Insecta**

**Hymenoptera**

**Family Andrenidae**

*Andrena haemorrhhoa* (Fabricius, 1781)

1 km to the East from the town of Apatity, secondary birch forest with *Picea obovata* and *Juniperus sibirica* and with a dwarf-shrubs and tall herbs cover along the lines of electricity, inside of flower of *Cypripedium calceolus*, 29.06.2012, N67 33 E33 27, det. Blinova I. (confirmed by Paukkunen, J.).

**Lepidoptera**

**Family Geometridae**

*Pasiphila rectangulata* (Linnaeus, 1758)

The town of Olenegorsk, near houses, 02.07.2012, N68 08 E33 17, det. Mironov, V. G.

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