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Study of Heteroptera and Pyraloidea (Lepidoptera) in Sogn og Fjordane, 2014

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Emneord: Heteroptera , Pyraloidea, Sogn og Fjordane

Aim

Investigation of rare and endangered species of Heteroptera and Pyraloidea (Lepidoptera) in selected municipalities in Sogn og Fjordane County. Further collected material of both taxa will be incorporated in the collection of the University Museum of Bergen (ZMBN).

Our general knowledge about Heteroptera in Sogn og Fjordane is more fragmented than for other Norwegian counties/biogeographical regions (SFy,SFi: sensu Økland 1981), since many widespread species are not recorded from Sogn og Fjordane (see Coulianos 1998). Therefore, regardless from the success of finding rare and endangered species, the results of this fieldwork will improve our knowledge about distribution of Heteroptera in Western Norway.

Fieldwork: Methods, locality and sampling dates

Sampling methods: Light trap (Pyraloidea), hand picking, D-vac Exhauster, hand net, beating of vegetation, etc.

In contrast to our original plan to have one long field trip from about five days, we had three field trips:

1. Western Part of Sogn og Fjordane 28-29 July with six sampling localities:

Høyanger, Laviksåta	(61°07.010'N 5°27.510'E, 422m)
Høyanger, Vannkontur	(61°09.885'N 5°27.656'E, 349m)
Høyanger, Nordstrandsvatnet	(61°10.073'N 5°28.481'E, 245m)
Hyllestad, Sørbøvåg	(61°13.492'N 5°07.719'E, 30m)
Hyllestad, Skivenes	(61°13.500'N 5°02.150'E, 21m)
Fjaler, Kjøsnes	(61°18.658'N 5°08.550'E, 55m)

On this field trip mostly Pyraloidea (Lepidoptera) and only few Heteroptera were collected.

2. Along the Sognefjord 5-7 August with seven sampling localities:

Høyanger, Lavik, meadow at shore	(61°06.317'N 5°30.300'E, 4m)
Høyanger, Aven, meadow	(61°09.233'N 5°37.133'E, 10m)
Balestrand, Nesfjora, dry meadow	(61°07.767'N 6°19.067'E, 15m)
Balestrand, Saurdal, bog	(61°08.917'N 6°30.133'E, 600m)
Leikanger, Hella, xerothermic shore	(61°12.417'N 6°36.733'E, 5m)
Sogndal, rest stop on Riksvei 5	(61°12.583'N 7°09.350'E, 100m)
Sogndal, Sogndalfjord, meadow	(61°11.350'N 7°02.800'E, 3m)

On this field trip both Pyraloidea (Lepidoptera) and Heteroptera were collected.

3. Selected places in the Luster Kommune 11-14 August with 3 localities:

Luster, Luster area (several sampling sites) (61°27'N 7°26'E)
Luster, Urnes stavskirke (dry meadow) (61°17'54.66"N 7°19'20.91"E)
Luster, Kurnedalen, Berget-Bergsetbreen (61° 38'36"N 7° 7'36"E)

On this field trip only Heteroptera were collected.

Preliminary results - Lepidoptera

Crambidae: Crambinae: 120 specimens, 5 species:

Agriphila inquatella (Denis & Schiffermüller, 1775) - 24 specimens
Agriphila tristella (Denis & Schiffermüller, 1775) - 15 specimens
Agriphila straminella (Denis & Schiffermüller, 1775) - 76 specimens
Catoptria margaritella (Denis & Schiffermüller, 1775) - 4 specimens
Catoptria falsella (Denis & Schiffermüller, 1775) - 1 specimen

Scopariinae: 19 specimens, 3+ morphospecies

Eudonia lacustrata (Panzer, 1804) - 1 specimen

Spilomelinae: 34 specimens, 2 species:

Udea lutealis (Hübner, 1809) - 33 specimens
Udea prunalis (Denis & Schiffermüller, 1775) - 1 specimen

Pyraustinae: 1 specimen, 1 species:

Pyrausta purpuralis (Linnaeus, 1758) - 1 specimen

Geometridae: 103 specimens, 24 morphospecies

Noctuidae: 32 specimens, 15 morphospecies

Tortricidae: 16 specimens, 11 morphospecies

Pterophoridae: 3 specimens, 2 morphospecies

Stenoptilia sp. - 2 specimens

Microlepidoptera: 42 specimens, 23 morphospecies

Anthophila fabriciana (Linnaeus, 1767) - 2 specimens

Preliminary results - Heteroptera

*new species records for the faunistic region SFi (see Økland 1981 and Coulianos 1998)

Miridae:

Blepharidopterus angulatus
Bryocoris pteridis
Caspus ater
*Stenotus binotus**
Liocoris bipustulatus
Stenodema holsata
Stenodema laevigata
*Stenodema calcarata**
Lygus rugulipennis
Monalocoris filicis
Dicyphus spp.
Plagiognathus arbustorum

Plagiognathus chrysanthemi
Pinalitus rubricatus
Orthops campestris
Phytocoris ulmi *
Lygocoris pabulinus
Lygocoris rugicollis

Nabidae :

Nabis limbatus
Nabis brevis
Nabis flavomarginatus

Anthocoridae:

Anthocoris nemorum
Anthocoris confusus

Lygaeidae:

Drymus sylvaticus
*Plinthisus brevipennis**
Stygnocorus sabulosus
Scolopostethus decoratus *
Trapezonotus arenarius

Rhopalidae:

Coriza hyoscyami

Pentatomidae:

*Neottiglossa pusilla**
Dolycoris baccarum

Acanthosomatidae:

Acanthosoma haemorrhoidae
Elasmucha grisea

Litteratur

Økland KA, 1981. Inndeling av Norge til bruk ved biogeografiske oppgaver -et revidert Strand-system. *Fauna (Oslo)* 34, 167–178.

Coulianos C-C; 1998. Annotated Catalogue of the Hemiptera–Heteroptera of Norway. *Fauna norvegica Series B* 45, 11–40.