Pyrola – 2017

2.1. Latinsk navn (Latin name)

Pyrola media Sw

Leave rosette (with or without flower) was treated as individual.

2.2 Rødlistestatus (red list status)

Not in red list

2.3 Utbredelse (spreading/place)

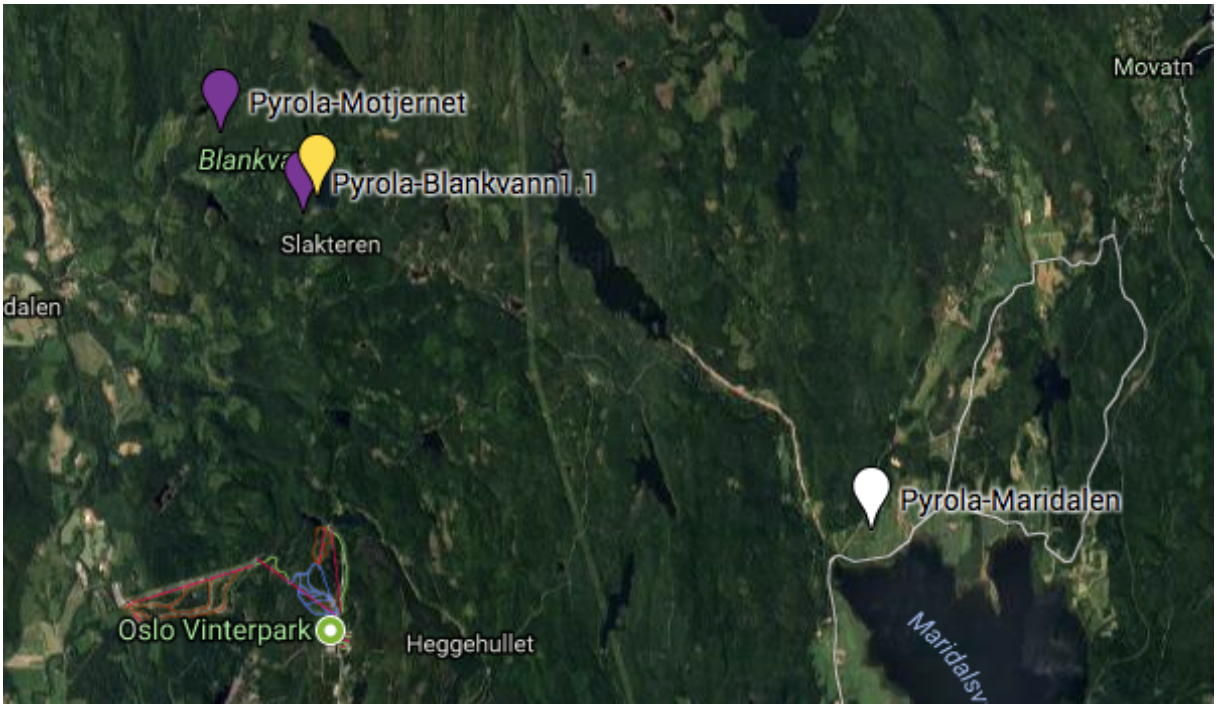
Northern and central Europe, extending southwards locally, and mainly in the mountains, to N. Italy, Macedonia, Krym, and S.Ural.

2.4 Lokaliteter i Norge (locations in Norway)

2.4.1. Lokaliteter i Oslo (locations in Oslo)

4 locations: Pyrola-Maridalen , Pyrola-Blankvann1.1 + Pyrola- Blankvann1.2 and Pyrola-Motjernet

Map. Pyrola 2017.



< 10 specimens (white)

11 – 100 specimens (yellow)

101 – 300 specimens (red)

> 300 specimens (violet)

Location: Maridalen.

Individuals: 1 vegetative individual (!)

Area: 5 x 10 m. (0.012 ha)

Environment (habitat): Open area with SE exposure. Pasture or extensive kept meadow close to edge of spruce forest. This location in fact is no longer on the edge of spruce forest after cutting down some big spruces during some last years.

Condition: Pyrola disappears at this location. Like three last years no flowering plants have been found. It is not possible to see any vegetative rosette without spreading out dense grassy vegetation. I could hardly found only 1 vegetative rosette.

Care:

GPS-coordinates: 59°59'47.92"N 10°45'33.00"E **Pyrola-Maridalen**

Date of watch: 5.07.2017

Owner:

Photos: R. Gramsz

Observer: R. Gramsz

Photo 1. This *Pyrola* location is disappearing overgrown by toll grass. 5.07.2017.

Nordmarka. Blankvann.

Location: Nordmarka. Blankvann 1.1 (top of a hill)

Individuals: ca. 1200 (155 flowering specimens)

Area: 80 x 130m (0.442 ha)

Environment (habitat): Open surroundings of a cabin on the hill top. Mostly grassland on a shallow and rocky but fertile soil. With other species*: Anemone nemorosa, Briza media, Calamagrostis arundinacea, Convallaria majalis, Dryopteris filix-mas, Epipactis atrorubens cfr., Fragaria vesca, Galium boreale, Gymnadenia conopsea, Hepatica nobilis, Hieracium sect. hieracium, Juniperus communis, Listera ovata, Orthilia secunda, Pinus sylvestris, Polygala vulgaris, Potentilla erecta, Pyrola chlorantha, P.minor, P. rotundifolia, Rubus sp., Solidago virgaurea, Sorbus aucuparia, Vaccinium myrtillus, Vaccinium vitis-idaea, Viola sp.*

Condition: *Pyrola media* is growing in (about 10) concentrations, with a few to dozen or so flowering plants in each concentration. It was beginning of blooming at a day of counting 12.07 – quite late this year. Proportion between flowering rosettes and vegetative were counted in concentration on the top of a hill, close to flag mast: 32/243 So, to estimate number of all individuals I use proportion 1:7.6. In the rest of concentrations I was counting only flowering individuals. There were 155 flowering individuals on whole location.

Pyrola chlorantha which is growing in the same area was in full blooming already in 30.06. (24 blooming individuals)

GPS-coordinates: 60° 1'24.87"N 10°39'44.16"E Pyrola-Blankvann1.1

Date of watch: 30.06; 5,12.07.2017

Owner: **Photos:** R. Gramsz **Observer:** R. Gramsz

Photo 1. Location Blankvann 1.1. *Pyrola media* concentration on the top of a hill. 12.07.2017.

Photo 2. Few blooming *Pyrola media* plants on location close to mast. 12.07.2017.

Photo 3. *Pyrola chlorantha* in full blooming. 30.06.2017.

Location: Nordmarka. Blankvann 1.2 (close to lake)

Individuals: 27 (2 flowering specimens)

Area: 6 m x 12 m (0.017 ha)

Environment (habitat): *Pyrola media* grows on shady slope (slope of 45 degrees, the eastern exposure) under spruce, 15-20 m from the lake shore. Habitat is homogeneous, but rather with a small amount of places to germination. Herb layer vegetation split into two sub-layers, the higher of *Calamagrostis*, and lower of *Pyrola, Vaccinium*, etc. *Calamagrostis* species is considered to be expansive, however its coverage area in this stand does not exceed 25%. With other species*: Anemone nemorosa, Calamagrostis arundinacea, Convallaria majalis, Calluna vulgaris, Gymnadenia conopsea, Hepatica nobilis, Hieracium sect. hieracium, Linnea borealis, Melampyrum pratense, Potentilla erecta, Pteridium aqulinum, Rubus sp., Solidago virgaurea, Sorbus aucuparia, Vaccinium myrtillus, Vaccinium vitis-idaea, Viola sp.* Trees and bushes: *Betula pubescens, Daphne mezereum, Juniperus communis, Picea abies, Pinus sylvestris, Sorbus aucuparia*

Condition: 4 small concentrations of *Pyrola media* have been found this year. Most of them were vegetative rosettes and only 2 blooming individuals.

Care:

GPS-coordinates: 60° 1'29.90"N 10°39'53.00"E **Pyrola-Blankvann1.2**

Date of watch: 12.07.2017

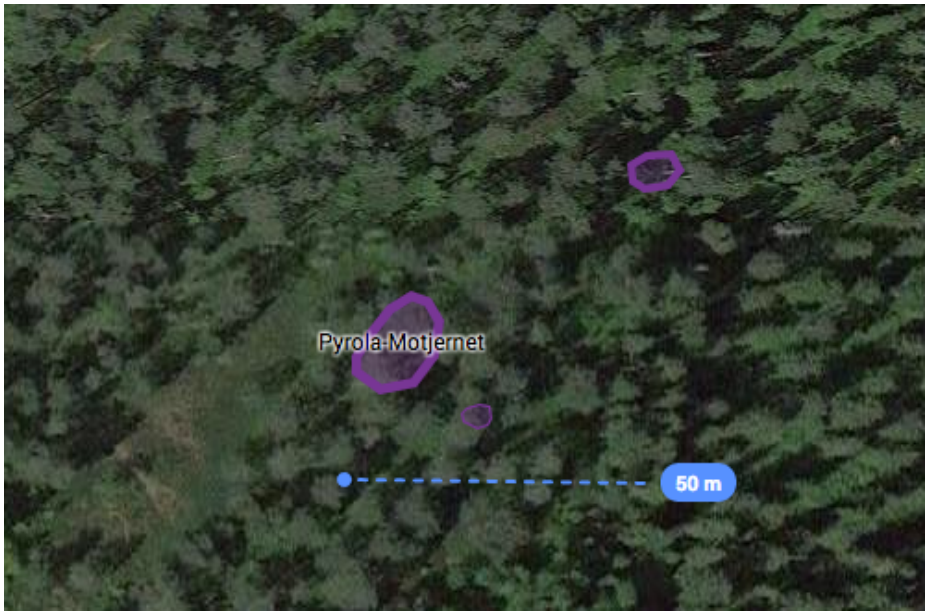
Owner:

Photos: R. Gramsz

Observer: R. Gramsz

Photo 1. A View over location 1.2 close to Blankvann. Sebastian is pointing two blooming individuals. 12.07.2017.

Location: Nordmarka. Motjernet.



Individuals: ca. 1000 (59 flowering specimens)

Area: 10 m x 20 (0.017 ha) + 5 x 5 m (0.005 ha) + 2 x 2 m

Environment (habitat): *Pyrola media* grows on open pine forest on a flat height between mire and small stream. This habitat creates spread old pines *Pinus silvestris* (40% coverage) and *Calluna vulgaris* (15%) and *Vaccinium myrtillus* (80%), which dominate in herb layer. Trees and bushes: *Betula pubescens, Juniperus communis, Picea abies, Pinus sylvestris, Sorbus aucuparia*. With other species*: Dactylorhiza maculata, Empetum nigrum, Linnea borealis, Melampyrum pratense, Potentilla erecta, Vaccinium vitis-idaea, .*

Condition: *Pyrola media* grows in 2 concentrations (+ 1 very small, close to bigger one). On smaller concentration all blooming and vegetative indiwiduals have been counted – 8 blooming/ 134 vegetative. On biger site were 51 blooming individuals. It was full blooming period, plants were large and splendid (even bigger than last year - over 30 cm) , visible over herb layer.

Care:

GPS-coordinates: 60°1'49.10"N 10°38'53.80"E **Pyrola-Motjernet**

Date of watch: 14.07.2017.

Owner:

Photos: R. Gramsz

Observer: R. Gramsz

Photo 1. Location Motjernet. *Pyrola* media in full blooming, plants are very big, over 30 cm and well visible. 14.07.2017.

Photo 2. *Pyrola media* plants were large, even higher than last year. 14.07.2017.