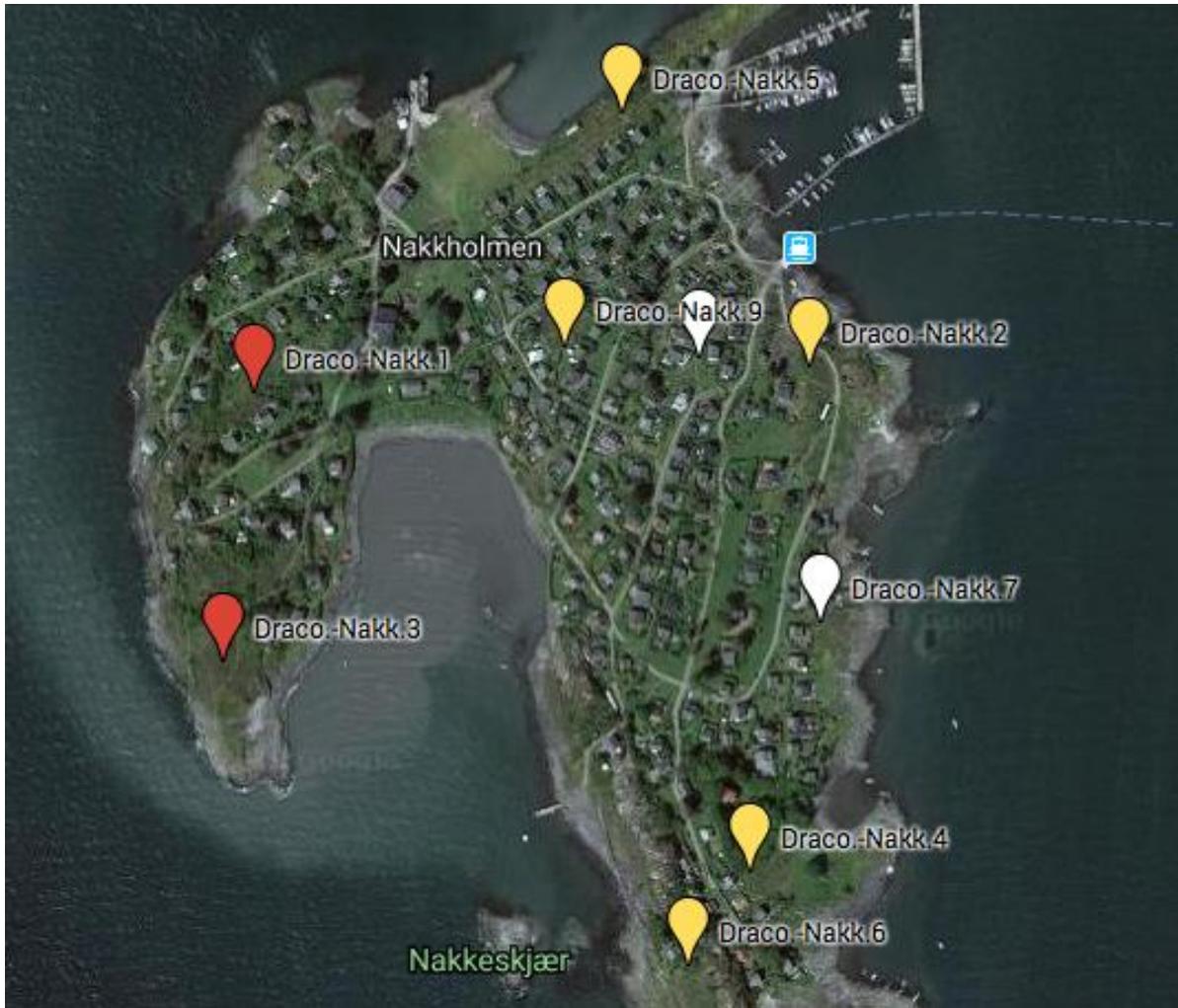


**NAKKHOLMEN** – 2018

Map. *Dracocephalum ruyschiana* - Nakkholmen.



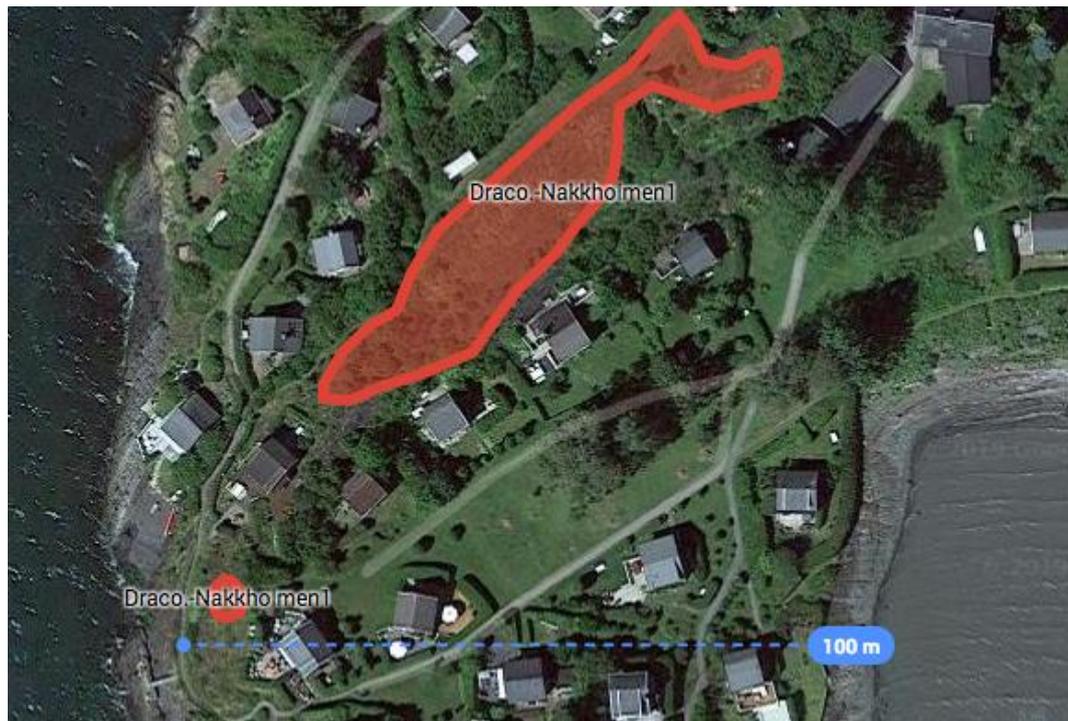
< 10 specimens (white)

11 – 100 specimens (yellow)

101 – 300 specimens (red)

> 300 specimens (violet)

## Location: Nakkholmen 1



**Individuals:** ca. 150

**Area:** 100m x 15m (0.124 ha) + 5 x 5 m (0.004 ha)

**Environment (habitat):** The ridge of a hill partly overgrown by bushes (covering ca. 30% of the area). In thermophilous vegetation on shallow soil, with: *Syringa vulgaris*, *Fraxinus excelsior*, *Rosa sp.*, *Cotoneaster sp.*, *Berberis vulgaris*, *Geranium sanguineum*, *Dianthus deltoides*, *Fragaria vesca*, *Polygonatum odoratum*, *Verbascum sp.*, *Sedum spurium*, *Filipendula vulgaris*. *Dracocephalum* plants can be found in concentrations along a whole top of the ridge. The area of this location has been extended to the South for small concentration behind house no 17.

**Condition:** Location was very dry at a time of observation. In many places *Dracocephalum* plants were completely dry. Usually they were 15 – 30 cm high, long time after poorly blooming.

**Care:** Group of local people [Dragehodegrupper](#) has taken care of this place for a few years. They regularly do some cutting on the main area and also herbicidal control of overgrowing lilac bushes. That opens the area and gives more light for already existing *Dracocephalum* plants. Herbicides at last killed lilac in this area but also other characteristic for this habitat species. This place is overgrown now by tall grass, and thicket of *Myosotis arvensis*, *Stellaria graminea*, *Potentilla argentea*, *Geranium robertianum*, *Phedymus spurius*... - seems that is better in that situation only reduce clusters of bushes by cutting hanging branches and possibly shoots – not the whole cluster! And no chemical treatment!

**GPS- coordinates:** 59°53'23.97"N 10°41'29.46"E

[Dracocephalum-Nakkholmen1](#)

Stony hill in the central part of W side of the island.

**Date of watch:** 25.06.2018.

**Owner:**

**Photos:** R.Gramsza

**Observer:** R.Gramsza



Photo 1. Area after cutting and chemical treatment of lilac bushes. 25.06.2018.

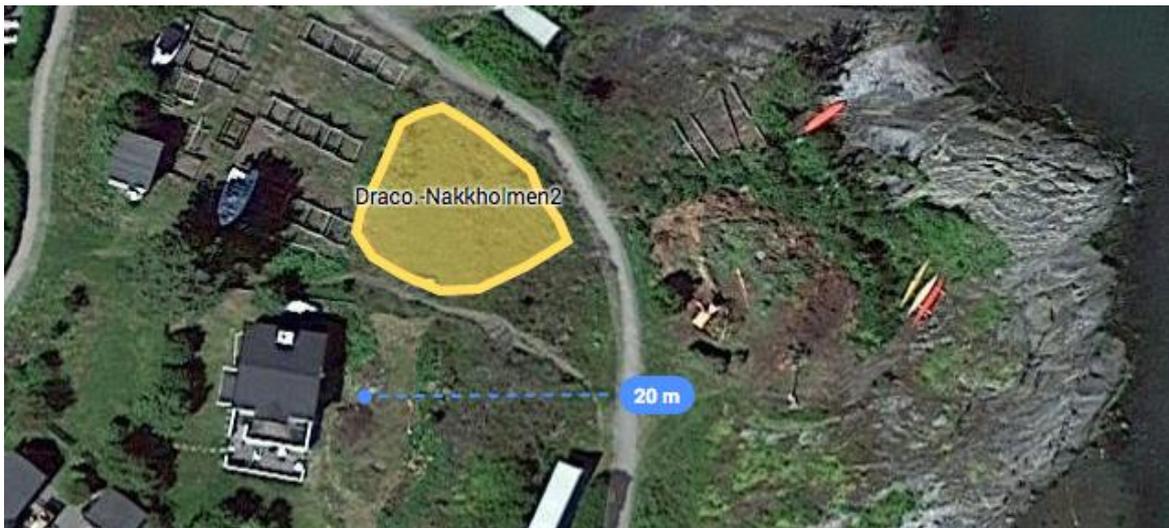


Photo 2. Location Nakkholmen 1 on top of the hill. 25.06.2018.



Photo 3. Site in NE part of location 1. 25.06.2018.

**Location: Nakkholmen 2**



**Individuals:** ca. 90

**Area:** ca. 10 x 15 m, 0.019 ha (potential area 20 x 50 m)

**Environment (habitat):** Open NE slope of a small hill. In thermophilous vegetation with *Geranium sanguineum* on shallow soil. With: *Geranium sanguineum*, *Filipendula vulgaris*, *Arctostaphylos uva-ursi*, *Hylotelephium telephium* ssp. *maximum* (*Sedum telephium* = *Sedum maximum*), *Syringa vulgaris*, *Rosa* sp., *Berberis vulgaris*, *Sorbus aucuparia* x, *Cotoneaster* sp. (cult. - *lucidus?* *scandinavicus?* ), *Sedum spurium*, *Festuca* (ovina agg.?), *Galium boreale*, *Thymus* sp, *Fragaria vesca*, *Plantago media*, *Veronica spicata*, *Polygonatum odoratum*, *Convallaria majalis*. *Rubus Saxatilis*

**Condition:** Location is dry but looks “green”. *Dracocephalum* plants were 15 – 20(25) cm high and there were fewer of them than last year. Plants already finish blooming and about 50% of them were blooming.

**Care:** Seems that location becomes richer in vegetation – it should be mowed every 2-3 years and all cut vegetation removed from the location.

**GPS-coordinates:** 59°53'24.43"N 10°41'48.97"E [Dracocephalum-Nakkholmen2](#)

Open NE slope of a small hill, close to the shore, 100 m S from the harbour, over the compost deposit.

**Date of watch:** 25.06.2018.

**Owner:**

**Photos:** R. Gramsz

**Observer:** R. Gramsz



Photo 1. General view over location Nakkholmen 2. 25.06.2018.



Photo 2. Seams that vegetation becomes too rich as for *Dracocephalum* habitat. Cutting and removing vegetation every 2-3 years is recommended. 25.06.2018.

**Location: Nakkholmen 3**



**Individuals:** ca. 200

**Area:** whole area ca. 80 x 100 m, 2 parts: 0.123 ha + 0.135 ha

**Environment (habitat):** The ridge and slopes of a hill partly overgrown by bushes. In thermophilous vegetation with: *Geranium sanguineum* on shallow soil. With: *Sorbus acuparia*, *S. intermedia*, *Cotoneaster* sp., *Rosa* sp., *Ligustrum vulgare*, *Syringa vulgaris*, *Lycium barbarum*, *Berberis vulgaris*, *Pinus silvaticus*, *Filipendula vulgaris*, *Sedum spurium*, *Hylotelephium telephium* ssp. *maximum* (*Sedum telephium* = *Sedum maximum*), *Geranium sanguineum*, *Thymus* sp., *Origanum vulgare*, *Plantago media*, *Fragaria vesca*, *Campanula persicifolia*, *Polygonatum odoratum*.

**Condition:** Location was dry, all plants were small and wilted. *Dracocephalum* usually 10 – 20cm high, not more than 50% were blooming and at the time of observation flowers were overblown and dry.

**Care:** Light clearing of bushes and mowing open areas once for 2 – 3 years is recommended.

**GPS-coordinates:** 59°53'19.20"N 10°41'28.40"E [Dracocephalum-Nakkholmen3](#)

Stony hill in the southern peninsula of the W side of the island.

**Date of watch:** 26.06.2018.

**Owner:**

**Photos:** R. Gramsz

**Observer:** R. Gramsz



Photo 1. Southern part of the location Nakkholmen 3. 26.06.2018.



Photo 2. Northern part of the location Nakkholmen 3. 26.06.2018.

**Location: Nakkholmen 4**



**Individuals:** ca. 33 (30 + 3)

**Area:** 10 x 6m, 0.015 ha + 4 x 3m, 0.002 ha (potential area 40 x 50 m)

**Environment (habitat):** Small hill partly overgrown by bushes (mainly *Syringa vulgaris*). In thermophilous vegetation on shallow soil. With: *Geranium sanguineum*, *Thymus pulegioides*, *Filipendula vulgaris*, *Fragaria vesca*, *Cotoneaster sp.*

**Condition:** Location was quite dry, *Dracocephalum* were found in both places – on the main site located close to fence of a house no.168 and strongly shorten lilac bushes and another small one about 10 m to the North-East also along edge of lilac bushes. Plants were 10 – 20 cm high and only 50% were poorly blooming.

**Care:** Cluster of Lilac was strongly shorten probably last year.

**GPS-coordinates:** 59°53'15.47"N 10°41'46.87"E [Dracocephalum-Nakkholmen4](#)

**Date of watch:** 26.06.2018.

**Owner:**

**Photos:** R. Gramsz

**Observer:** R. Gramsz



Photo 1. Main area of location Nakkhomen 4. Cluster of Lilac was cut quite strong (left on the photo). 26.06.2018.

**Location: Nakkholmen 5**



**Individuals:** ca. 55

**Area:** ca. 15m x 60m, 0.055 ha

**Environment (habitat):** Top of the ridge and NW slope of a hill partly overgrown by bushes from surroundings of a house no 182 to the toilet building. There is a great influence of human presence but *Dracocephalum* plants are growing even on the edges of flowerbeds in gardens. In thermophilous vegetation with *Geranium sanguineum* on shallow soil. With: *Syringa vulgaris*, *Rosa sp.*, *Filipendula vulgaris*, *Sedum spurium* (*Phedimus spurium*), *Hylotelephium telephium ssp. maximum* (*Sedum telephium* = *Sedum maximum*), *Geranium sanguineum*, *Thymus sp.*, *Origanum vulgare*, *Plantago media*, *Polygonatum odoratum*.

**Condition:** Location was very dry. There were much less plants than last year. They were 10 – 20(30) cm high and only about 40% were blooming. It was the end of blooming period.

**Care:** Seems that this location is main place of interest of [Dragehodegruppa](#). Most of *Dracocephalum* concentrations are fence with rope and/or mark with sticks. Dragehodegrupa also do all bushes catting - maybe too much as in such weather as this year *Dracocephalum* would better grow in shadow.

**GPS-coordinates:** 59°53'28.93"N 10°41'42.38"E [Dracocephalum-Nakkholmen5](#)

A middle part of a long ridge sticks out as a peninsula in NE part of island.

**Date of watch:** 25.06.2018.

**Owner:**

**Photos:** no photo

**Observer:** R.Gramsz

**Location: Nakkholmen 6**



**Individuals:** 11

**Area:** ca. 15 x 35 m, 0.045 ha (potential area ca. 30 x 100 m)

**Environment (habitat):** Western slope of a rocky ridge on the southernmost peninsula in Nakkholmen. Location is without trees and about 10% of bushes cover. With: *Berberis vulgaris*, *Cotoneaster sp.*, *Fraxinus excelsior*, *Rosa sp.*, *Rhamnus catharticus*, *Sorbus aucuparia*, *Syringa vulgaris*. In thermophilous vegetation with *Geranium sanguineum* and *Filipendula vulgaris* on shallow soil and: *Leucanthemum vulgare*, *Sedum acre*, *S. spurium* (*Phedimus spurium*), *Hylotelephium telephium ssp. maximum* (*Sedum telephium* = *Sedum maximum*), *Thymus sp.*, *Origanum vulgare*, *Plantago media*, *Polygonatum odoratum*, *Lotus corniculatus*, *Hesperis matronalis*

**Condition:** Location was dry *Dracocephalum* plants were small 10– 20 cm high, very poorly blooming and notice only in 2 concentrations.

**Care**

**GPS-coordinates:** 59°53'13.8"N 10°41'44.7"E [Dracocephalum-Nakkholmen6](#)

**Date of watch:** 26.06. 2018.

**Owner:**

**Photos:** R. Gramsz

**Observer:** R. Gramsz



Photo 1. Area of the location Nakkholmen 6. 26.06.2018.

**Location: Nakkholmen 7**



**Individuals: 2**

**Area:** 2 x 5 m, 0.001 ha (potential area ca. 10 x 15 m)

**Environment (habitat):** Small area among summer houses which is kept “wild” – with thermophilous vegetation on shallow soil.

**Condition:** One small and one bigger individual with flowers (but already dry at a date of observation).

**GPS-coordinates:** 59°53'19.9"N 10°41'49.3"E [Dracocephalum-Nakkholmen7](#)

**Date of watch:** 26.06.2018.

**Owner:**

**Photos:** R. Gramsz

**Observer:** R. Gramsz



Photo 1. *Dracocephalum* location 7. 26.06.2018.

**Location: Nakkholmen 8**



**Individuals: 2**

**Area: 2 x 4 m, 0.002 ha**

**Environment (habitat):** Small area of not mowed lawn among summerhouses.

**Condition:** Only 2 poorly blooming plants. In the middle of lawn and close to house 109.

**Care**

**GPS-coordinates:** 59°53'24.6"N 10°41'45.1"E

[Draco.-Nakkholmen8](#)

**Date of watch:** 25.06. 2018.

**Owner:**

**Photos:** R. Gramsz

**Observer:** R. Gramsz



Photo 1. *Dracocephalum* plants on location 8. 20.06.2017.

**Location: Nakkholmen 9**



**Individuals: 16**

**Area:** 8 x 10m, 0.009 ha (potential area ca. 20 x 40 m)

**Environment (habitat):** small ridge with thermophilous vegetation on the middle of island surrounded by summerhouses. With: *Syringa vulgaris* (as hedge), *Cotoneaster sp.*, *Fraxinus excelsior*, *Rosa sp.* and *Geranium sanguineum*, *Filipendula vulgaris*, *Leucanthemum vulgare*, *Sedum acre*, *S. spurium* (*Phedimus spurium*), *Hylotelephium telephium ssp. maximum*, *Thymus sp.*, *Origanum vulgare*, *Plantago media*, *Polygonatum odoratum*, *Lotus corniculatus*, *Silene nutans*...

**Condition:** *Dracocephalum* plants were in relatively (as for drought) good condition, 15 - 20(25) cm ca. 50% were poorly blooming.

**Care**

**GPS-coordinates:** 59°53'24.8"N 10°41'40.4"E

[Draco.-Nakkholmen9](#)

**Date of watch:** 26.06.2018.

**Owner:**

**Photos:** R. Gramsz

**Observer:** R. Gramsz



Photo 1. Site with *Dracocephalum* plants on Location 9. 26.06.2018.

**NORDMARKA** – 2018

Map. . *Dracocephalum ruyschiana* – Nordmarka.



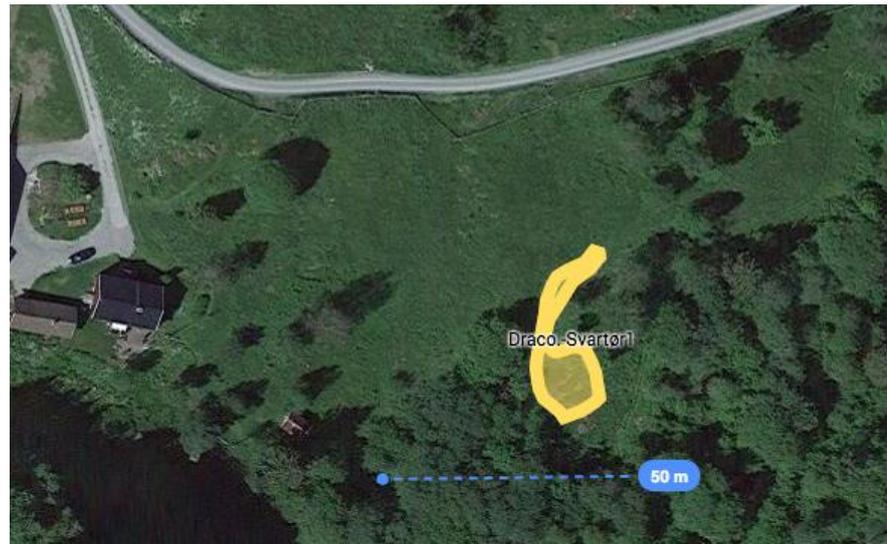
< 10 specimens (white)

**11 – 100 specimens** (yellow)

**101 – 300 specimens** (red)

**> 300 specimens** (violet)

**Location: Svartor 1**



**Individuals:** ca. 60

**Area:** ca. 50 x 20 m, 0.029 ha

**Environment (habitat):** On a small dry rocky hill, surrounded by bushes and young trees (main concentration), and spread in the neighboring part of the meadow. With: *Achillea millefolium*, *Agrostis capillaris*, *Agrostis vulgaris*, *Alchemilla* sp., *Briza media*, *Campanula rotundifolia*, *Carex pallescens*, *Convallaria majalis*, *Dactylis glomerata*, *Filipendula vulgaris*, *Filipendula ulmaria*, *Fragaria vesca*, *Fraxinus excelsior*, *Galium boreale*, *Galium verum*, *Geranium sylvaticum*, *Holcus lanatus*, *Hypericum perforatum*, *Hypochoeris maculata*, *Juniperus communis*, *Knautia arvensis*, *Lathyrus vernus*, *Leucanthemum vulgare*, *Phleum pratense*, *Pimpinella saxifraga*, *Plantago media*, *Primula veris*, *Prunus padus*, *Ranunculus acris*, *Rosa* sp., *Rubus* sp., *Solidago virgaurea*, *Sorbus aucuparia*, *Thymus pulegioides*, *Trifolium alpestre*, *Trifolium pratense*, *Vicia cracca*

**Condition:** Location was very dry. There was a mosaic of yellowish completely dried vegetation on very shallow soil and relatively well growing, green on deeper soil. *Dracocephalum* plants were small 5 – 15(20) cm but were very poorly blooming at the time of observation – ca. 30%. Much fewer plants were noticed.

**Care:**

**GPS-coordinates:** 60° 1'31.32"N 10°38'51.99"E [Dracocephalum-Svartor1](#)

The main site is situated ca. 150 m E from Svartor farm on a former footpath to E side of Setertj.

**Date of watch:** 12.06.2018.

**Owner:**

**Photos:** R. Gramsz

**Observer:** R. Gramsz



Photo 1. Top of rocky hill - main area on location Svartør 1. 12.06.2018.



Photo 2. Blooming sprouts of *Dracocephalum* were maximum to 15 -20 cm high. 12.06.2018.

**Location: Svartør 2**



**Individuals:** ca. 15

**Area:** 2 x 3 m, 0.001 ha

**Environment (habitat):** On a very small, dry, rocky hill on a side of a meadow. With: *Picea excelsa*, *Populus tremula*, *Rosa sp.*, *Sorbus aucuparia*, *Salix caprea*, *Prunus padus*, *Convallaria majalis*, *Polygala sp.*, *Geranium sanguineum*, *Thymus pulegioides*, *Fragaria vesca*, *Melampyrum sylvaticum*, *Galium boreale*, *Hypericum maculatum*

**Condition:** Location very dry. *Dracocephalum* plants were very small 5 -10cm and none of them flourished.

**Care:** There was a lot of *Convallaria majalis* on this surface. Probably it should be reduced.

**GPS-coordinates:** 60° 1'34.85"N 10°38'59.56"E [Dracocephalum-Svartør2](#)

Site is situated just opposite Framstua, on NW side of the road.

**Date of watch:** 12.06.2018.

**Owner:**

**Photos:** R. Gramsz

**Observer:** R. Gramsz



Photo 1. Location Svartør 2. 12.06.2018.



Photo 2. Quite a lot of *Convallaria majalis* on this location. Maybe it should be reduced. 12.06.2018.

**NORDMARKA, Blankvann** - 2017

**Location: Blankvann 1**



**Individuals:** 3

**Area:** 2 x 3 m, 0.001 ha

**Environment (habitat):** On a south facing, open hill slope over a Blankvan lake. With a reach calciphilous vegetation. Among other: *Acer platanoides*, *Achillea millefolium*, *Agrostis capillaris*, *Alchemilla* sp., *Anemone nemorosa*, *Antennaria dioica*, *Anthericum liliago*, *Anthoxanthum odoratum*, *Aruncus dioicus*, *Betula pubescens*, *Briza media*, *Calamagrostis arundinacea*, *Campanula rotundifolia*, *Campanula persicifolia*, *Convallaria majalis*, *Dryopteris filix-mas*, *Epilobium angustifolium*, *Epipactis atrorubens*, *Fragaria vesca*, *Filipendula vulgaris*, *Galium boreale*, *Galium verum*, *Geranium sylvaticum*, *Gymnadenia conopsea*, *Hepatica nobilis*, *Hieracium* sect. *hieracium*, *Hylotelephium telephium*, *Iris sibirica*, *Lapsana communis*, *Leucantemum vulgare*, *Lilium martagon*, *Listera ovata*, *Melampyrum pratense*, *Orthilia secunda*, *Pinus sylvestris*, *Platanthera chlorantha*, *Polygala vulgaris*, *Potentilla erecta*, *Pyrola minor*, *P. rotundifolia*, *Rubus saxatilis*, *Solidago virgaurea*, *Sorbus aucuparia*, *Stachys sylvatica*, *Trifolium pratense*, *Vaccinium myrtillus*, *Vaccinium vitis-idaea*, *Vicia* sp., *Viola* sp., *Viscaria vulgaris*

**Condition:** Three blooming individuals have been found.

**Care:**

**GPS-coordinates:** 60° 1'40.10"N 10°39'58.30"E [Dracocephalum-Blankvann1](#)

About 50 m below a cottage in the direction to Tryvannshogda.

**Date of watch:** 12.06.2018.

**Owner:**

**Photos:** R. Gramsz

**Observer:** R. Gramsz



Photo 1. Location Blankvann 1. 12.06.2018.