

2.1. Latinsk navn (Latin name)

Dracocephalum ruyschiana L.

2.2 Rødlistestatus (redlist status)

Sårbar. (Vulnerable)

2.3 Utbredelse (spreading/place)

Arten er spredd fra Oslofjorden til Gudbrandsdalen. I Nord-vest-Europa har Norge hovedforekomsten. Europa og Asia. (The species is found from the Oslofjord to Gudbrandsdalen. Norway has the main population in north-western Europe.) Eastern and Central Europe and western and central Asia, extending locally westwards to Norway and the Pyrenees.

2.4 Lokaliteter i Norge (locations in Norway)

2.4.1. Lokaliteter i Oslo (locations in Oslo)

Now 16 known

Location: Bleikøya 1

Individuals: ca 100 + 50

Area: 20 x 40m

Environment (habitat): Open top of a ridge and a slope facing South. With other species: *Alchemilla* sp., *Allium vineale*, *Avenula pratensis* cfr., *Berberis vulgaris*, *Centaurea jacea*, *Centaurea scabiosa*, *Cotoneaster* sp., *Festuca rubra* cfr., *Filipendula vulgaris*, *Fragaria vesca*, *Fraxinus excelsior*, *Galium verum*, *Geranium sanguineum*, *Hylotelephium telephium* ssp. *maximum* (*Sedum telephium* = *Sedum maximum*), *Hypericum perforatum*, *Pimpinella saxifraga*, *Polygonatum odoratum*, *Potentilla argentea*, *Rumex acetosella*, *Sedum album*, *Thymus pulegioides*, *Veronica spicata*.

Condition: The bigger part of this site is in relatively bad condition because of a bird nesting influence on this site. Plants could be trampled and eaten by gooses. But a small distant part grow in number and increase area with *Dracocephalum* so, this (last year) two parts can be regarded now as one bigger.

Care: The site was mowed by motor scythe in September 2008, so it is not necessary to do it this year. Seams, that it is good to keep growing some briar (*Rosa* sp) bushes. They are not giving much shadow but may protect plants against being trampled.

GPS-koordinates: 0597510/ 6640509

Date of watch: 8.07.2009

Owner:

Photos: No 2831; 2832; 2834 (R. Gramsz)

Observer: R. Gramsz, J. Potocka

Location: Bleikøya 2

Individuals: ca 450 (400 +25 + 25)

Area: 30 x 10 m + 2 x (3 x 4 m) (potential area 40 x 40 m)

Environment (habitat): Open top of a hill and a slope facing NWN and lower terrace on the E of top. With other species: *Acer platanoides*, *Alchemilla* sp., *Achillea millefolium*, *Allium vineale*, *Anthyllis vulneraria*, *Asplenium trichomanes*, *Avenula pratensis* cfr., *Berberis vulgaris*, *Centaurea jacea*, *Centaurea scabiosa*, *Cirsium vulgare*, *Convallaria majalis*, *Cotoneaster* sp., *Erysimum strictum* cfr., *Festuca ovina*, *Festuca rubra* cfr., *Filipendula ulmaria*, *Filipendula vulgaris*, *Fragaria vesca*, *Fragaria viridis*, *Fraxinus excelsior*, *Galium boreale*, *Galium verum*, *Geranium robertianum*, *Geranium sanguineum*, *Geum urbanum*, *Hepatica nobilis*, *Hieracium pilosella*, *Hylotelephium telephium* ssp. *maximum* (*Sedum telephium* = *Sedum maximum*), *Hypericum perforatum*, *Leucanthemum vulgare*, *Lonicera xylosteum*, *Origanum vulgare*, *Phydimus spurius* (*Sedum spurium*), *Pimpinella saxifraga*, *Pastinaca sativa*, *Plantago media*, *Poa nemoralis*, *Polygonatum odoratum*, *Polypodium vulgare*, *Potentilla argentea*, *Rhamnus cathartica*, *Ribes alpinum* cfr., *Rosa* sp., *Rubus* sp., *Sedum album*, *Sorbus aucuparia*, *Sorbus domestica* cfr., *Syringa vulgaris*, *Thymus pulegioides*, *Trifolium alpestre*, *Verbascum* sp., *Veronica spicata*, *Viola tricolor*, *Viscaria vulgaris*

Condition: Plants are in good condition – most of them blooming. A new separate concentration of about 25 plants has been found in lower terrace in Eastern part of the site.

Care: Do not clear completely sparsely growing bushes. It is natural for the species to be partly shaded. Partly shaded places give the plant a chance to stay in better condition during very hot and dry summers. Clearing is not necessary at this site now.

GPS-koordinates: 0597501/ 6640403

Date of watch: 12.06.2009; 9.07.2009

Owner:

Photos: No 2686; 2829; 2830 (R. Gramsz)

Observer: R. Gramsz, J. Potocka

Bleikøya 3

Individuals: 6

Area: 3 x 4 m

Environment (habitat): Part of a beach used for boats storage with: *Rosa sp.*, *Fragaria vesca*, *Fraxinus excelsior*, *Geranium sanguineum*, *Hylotelephium telephium ssp. maximum* (*Sedum telephium* = *Sedum maximum*), *Thymus pulegioides*, *Polygonatum odoratum* and the others.

Condition: Plants are blooming and in good condition but there are fewer of them comparing with last year.

Care:

GPS-koordinates: 0597408/ 6640452

Under a footpath on the northern side of a place for boat storage in winter.

Date of watch: 8.07.2009

Owner:

Photos: No 2828 (R.Gramsz)

Observer: R. Gramsz, J. Potocka

Location: Bleikøya 4

Individuals: ca 400

Area: 100 (120) x 30m

Environment (habitat): A slope facing NW mostly overgrown by high bushes and trees (covering ca 60%). *Dracocephalum* grows rather sparsely both in the open area and under the bushes. Also open area in “winter boat storage place”. Bushes and low trees: *Fraxinus excelsior*, *Cotoneaster sp.*, *Rosa sp.*, *Juniperus communis*, *Crataegus sp.*, *Pinus sylvestris* (several), *Rhamnus cathartica*, *Rosa sp.*, *Sorbus aucuparia*, *Syringa vulgaris* (several); herbs: *Anthyllis vulneraria*, *Asplenium trichomanes*, *Avenula pratensis* cfr., *Berberis vulgaris*, *Briza media*, *Carex pallescens*, *Campanula rotundifolia*, *Centaurea jacea*, *Filipendula ulmaria*, *Filipendula vulgaris*, *Fragaria vesca*, *Galium verum*, *Geranium sanguineum*, *Hepatica nobilis*, *Inula salicina*, *Melilotus officinalis* cfr., *Origanum vulgare*, *Phydimus spurius* (*Sedum spurium*), *Pimpinella saxifraga*, *Plantago media*, *Polygonatum odoratum*, *Polypodium vulgare*, *Potentilla argentea*, *Prunella vulgaris*, *Sedum album*, *Solidago virgaurea*, *Thymus pulegioides*, *Veronica spicata*

Condition: Plants are in very good condition, most of them in flower. In some places flowers has been picked for bouquets.

Care: Light clearing up to 20% desirable, especially in the places where the plants still exists in the strong shade. That clearing has been made in September 2009. See photos no 3073 – 3075.

GPS-koordinates: 0597312/ 6640427

Date of watch: 8.07.2009

Owner:

Photos: 2823 - 2827 (R. Gramsz)

Observer: R. Gramsz, J. Potocka

Location: Bleikøya 5

Individuals: ca 100

Area: 10 x 25 m

Environment (habitat): Open ridge and a slope sparsely overgrown by bushes. With other species: *Achillea millefolium*, *Artemisia campestris*, *Berberis vulgaris*, *Centaurea jacea*, *Cotoneaster* sp., *Festuca rubra* cfr., *Fragaria vesca*, *Fragaria viridis*, *Galium verum*, *Geranium sanguineum*, *Geum urbanum*, *Hylotelephium telephium* ssp. *maximum* (*Sedum telephium* = *S. maximum*), *Origanum vulgare*, *Phydimus spurius* (*Sedum spurium*), *Plantago media*, *Polygonatum odoratum*, *Prunus spinosa*, *Rosa* sp., *Thymus pulegioides*, *Trifolium arvense*, *Trifolium pratense*, *Veronica spicata*

Condition: Plants are in very good condition, most of them in flower but about ¼ of population in this place has been pick for bouquets.

Care: Light clearing up to 20% desirable, especially in the places where the plants still exists in strong shade and to extend the potential area a little.

GPS-koordinates: 0597188/ 6640279

Top of the hill with the war monument and S and SE slope

Date of watch: 7.07.2009

Owner:

Photos: 2816 - 2819 (R. Gramsz)

Observer: R. Gramsz, J. Potocka

Bleikøya 6 A

Individuals: Ca 260

Area: 5 x 15 m

Environment (habitat): On the open slope facing South , on shallow stony soil. With other species: *Allium vineale*, *Anthyllis vulneraria*, *Artemisia campestris*, *Avenula pratensis* cfr., *Centaurea jacea*, *Cotoneaster* sp., *Festuca ovina*, *Filipendula vulgaris*, *Fragaria viridis*, *Galium verum*, *Geranium sanguineum*, *Hepatica nobilis*, *Hylotelephium telephium* ssp. *maximum* (*Sedum telephium* = *Sedum maximum*), *Hypericum perforatum*, *Hypochoeris maculata* cfr., *Jovibarba sobolifera*, *Origanum vulgare*, *Pimpinella saxifraga*, *Polygonatum odoratum*, *Potentilla argentea*, *Sedum album*, *Solidago virgaurea*, *Syringa vulgaris*, *Thymus pulegioides*, *Trifolium arvense*, *Veronica spicata*, *Viscaria vulgaris*

Condition: Plants are in very good condition, most of them in flower. In some places flowers has been pick for bouquets.

Care: Clearing has been done in September 2008. Now only cutting of lilac shouts is necessary each year (twice a year if possible).

GPS-koordinates: 0597089/ 6640195

Date of watch: 12.06.2009; 7.07.2009

Owner:

Photos: 2685; 2814; 2815 (R. Gramsz)

Observer: R. Gramsz, J. Potocka

Location: Bleikøya 6 B

Individuals: 9

Area: 1 m²

Environment (habitat): On the edge of the bushes

Condition: Plants are quite big and blooming.

Care:

GPS-koordinates: 0597083/ 6640195

Under the cottage no 88 (blue), towards the sea, ca 30 m S from location 6a.

Date of watch: 7.07.2009

Owner:

Photos: 2813 (R. Gramsz)

Observer: R. Gramsz, J. Potocka

Location: Bleikøya 7

Individuals: Ca 140 (120 on the main concentration – 5 x 10m)

Area: 30 x 40m

Environment (habitat): On the open ridge and slope facing south , on shallow stony soil. With other species: *Alchemilla* sp., *Allium vineale*, *Anthyllis vulneraria*, *Artemisia campestris*, *Campanula rotundifolia*, *Cerastium* sp., *Centaurea jacea*, *Centaurea scabiosa*, *Erysimum strictum* cfr., *Festuca ovina*, *Filipendula vulgaris*, *Fragaria vesca*, *Fraxinus excelsior*, *Galium verum*, *Geranium sanguineum*, *Hieracium pilosella*, *Inula salicina*, *Origanum vulgare*, *Phydimus spurius* (*Sedum spurium*), *Pimpinella saxifraga*, *Plantago media*, *Polygonatum odoratum*, *Rhamnus cathartica*, *Rosa* sp., *Sedum album*, *Solidago virgaurea*, *Sorbus hybrida*, *Syringa vulgaris*, *Thymus pulegioides*

Condition: Plants are in very good condition, most of them in flower.

Care: Clearing has been done in September 2008. Now only cutting of lilac shrubs is necessary each year (twice a year if possible)

GPS-koordinates: 0597048/ 6640205

Date of watch: 12.06.2009; 7.07.2009

Owner:

Photos: 2682 – 2684; 2812; 3076 (R. Gramsz)

Observer: R. Gramsz, J. Potocka

Location: Bleikøya 8

Individuals: ca 73 (60 + 13)

Area: 3 x 5 m + 2 x 4 m

Environment (habitat): In a line of bushes aside foot path – 2 places. With other species: *Anthyllis vulneraria*, *Avenula pratensis* cfr., *Berberis vulgaris*, *Cotoneaster sp.*, *Festuca ovina*, *Filipendula vulgaris*, *Fragaria vesca*, *Galium verum*, *Geranium sanguineum*, *Hylotelephium telephium* ssp. *maximum* (*Sedum telephium* = *Sedum maximum*), *Juniperus communis*, *Plantago media*, *Rhamnus cathartica*, *Syringa vulgaris*, *Thymus pulegioides*

Condition: Plants are in good condition, most of them in flower.

Care: Some small clearing could be done to extend the existing site.

GPS-koordinates: 0597343/ 6640338

Between houses no. 40 and 42, and the toilet.

Date of watch: 21.06.2008

Owner:

Photos: 1635,1636

Observer: R. Gramsz, J. Potocka

NAKHOLMEN

Location: Nakholmen 1

Individuals: ca 250

Area: 120 x 10 m

Environment (habitat): The ridge of a hill partly overgrown by bushes (covering ca 50% 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*.

Condition: Comparing with last year plants are bigger and most of them are blooming. Some new individuals has been found few meters to the north along a ridge and to the west.

Care: Light clearing up to 20% desirable, especially in the places where the plants still exists in the strong shadow. Some lilac bushes has been cut last year and now in this place grows a lot of small lilac shoots. Those places shall be mowed by motor scythe (? – rydesage) preferable twice a year to remove lilac shoots completely.

GPS-koordinates: 0594654 / 6640367

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

Date of watch: 22.06.2009

Owner:

Photos: No 2742; 2743; 2744 (R. Gramsz)

Observer: R. Gramsz,

Location: Nakholmen 2

Individuals: ca 150

Area: 10 x 10 m (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*.

Condition: Plants looks fresh and in good condition. Most of plants are blooming, stems up to ca 25 cm.

Care: Not necessary

GPS-koordinates: 0594959 / 6640398

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

Date of watch: 22.06.2009

Owner:

Photos: No 2726; 2727; 2728; 2729 (R. Gramsz)

Observer: R. Gramsz

Location: Nakholmen 3

Individuals: ca 200

Area: 80 x 100 m

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 sylvaticus*, *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: Plants looks fresh and in good condition. Most of plants are blooming but grows sparsely both in open area and close to bushes.

Care: Light clearing of bushes desirable, and mowing open areas once a 2 – 3 years.

GPS-koordinates: 0594638 / 6640232

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

Date of watch: 22.06.2009

Owner:

Photos: No 2746; 2748; 2749 (R. Gramsz)

Observer: R. Gramsz

Location: Nakholmen 4

There was no access to this location in June 2009 – private property with fence.

Location: Nakholmen 5 **New!**

Individuals: ca 50 (20 + 30)

Area: 3 x10 (1x3m + 2x3m)

Environment (habitat): Top of the ridge and NW slope of a hill partly overgrown by bushes. Site is close to resting bench – there is a great influence of human presence. In thermophilous vegetation with *Geranium sanguineum* on shallow soil. With: *Syringa vulgaris*, *Rosa* sp.,

Filipendula vulgaris, Sedum spurium (Phedimus spurius), Hylotelephium telephium ssp. maximum (Sedum telephium = Sedum maximum), Geranium sanguineum, Thymus sp., Origanum vulgare, Plantago media, Polygonatum odoratum.

Condition: Plants looks fresh and in good condition. Most of plants are blooming.

Care: Plants are growing along a footpath and under a big lilac bush. Lilac gives them a shadow (may be to much) but also protect them against being trample down. A few twigs of lilac should be cut out but not a whole bush.

GPS-koordinates: 05946852 / 6640532

A middle part of a long ridge which sticks out as a peninsula in NE part of island. Close to house no 64.

Date of watch: 22.06.2009

Owner:

Photos: No 2731; 2732; 2733 (R. Gramsz)

Observer: R. Gramsz,

HEGGHOLMEN

Location: Heggholmen 1

Individuals: ca 160

Area: 8 x12 m

Environment (habitat): SW part of the flat top of the hill. In thermophilous vegetation on shallow soil. With: *Fraxinus excelsior, Sibes aucuparia, Rosa sp., Polygonatum odoratum, Sedum album, Hylotelephium telephium ssp. maximum (Sedum telephium = Sedum maximum), Geranium sanguineum, Thymus pulegioides, Filipendula vulgaris, Fragaria vesca, Cotoneaster sp., Allium vineale, Vincetoxicum rossicum.*

Condition: Most of plants are blooming. They are bigger and better visible than last year.

Care: The whole area should be mowed by motor scythe after *Dracocephalum* seeds are ripen.

GPS-koordinates: 0595807/ 6655380

SW part of Heggholmen, flat top of the hill

Date of watch: 12.06.2009; 25.06.2009

Owner:

Photos: No 2694; 2756; 2757 (R. Gramsz)

Observer: R. Gramsz

NORDMARKA

Location: Svartor 1

Individuals: ca 120 (90 +30)

Area: 50 x 20 (8 x 10 m + 5 x 10)

Environment (habitat): On a small dry rocky hill, surrounded by bushes and young trees (main concentration), and spread in the neighbouring 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: About half of the population in flower. *Dracocephalum* grows in dense vegetation and is hardly visible if not in flower.

Care: Remove 50% of the trees and bushes from the belt as wide as half of the height of the surrounding trees. This place is used as a pasture for horses during the end of July and August. *Dracocephalum* plants are eaten before theirs seeds are ripen. (?)

GPS-koordinates: 0591830/ 6655376

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

Date of watch: 12.07.2009; 10.09.2009

Owner:

Photos: 2851; 2852; 3028; 3030 (R. Gramsz)

Observer: R. Gramsz, J. Potocka

Location: Svartor 2

Individuals: ca 30

Area: 2 x 3 m

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: Plants are in good condition but a blooming period was very short (few days) because of dry and hot weather.

Care: Light clearing of the surrounding bushes and spruce twigs has been done 4.07.2009.
Photos 2808; 2810

GPS-koordinates: 0591945/ 6655497

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

Date of watch: 4.07.2009

Owner:

Photos: 2808; 2810 (R. Gramsz)

Observer: R. Gramsz, J. Potocka

About care: Do not clear completely sparsely growing bushes. It is natural for the species to be partly shaded. Partly shaded places give the plant chance to stay in better condition during very hot and dry summers. It is advisable to monitor protection activity.