

Eradication methods of *Rosa rugosa*

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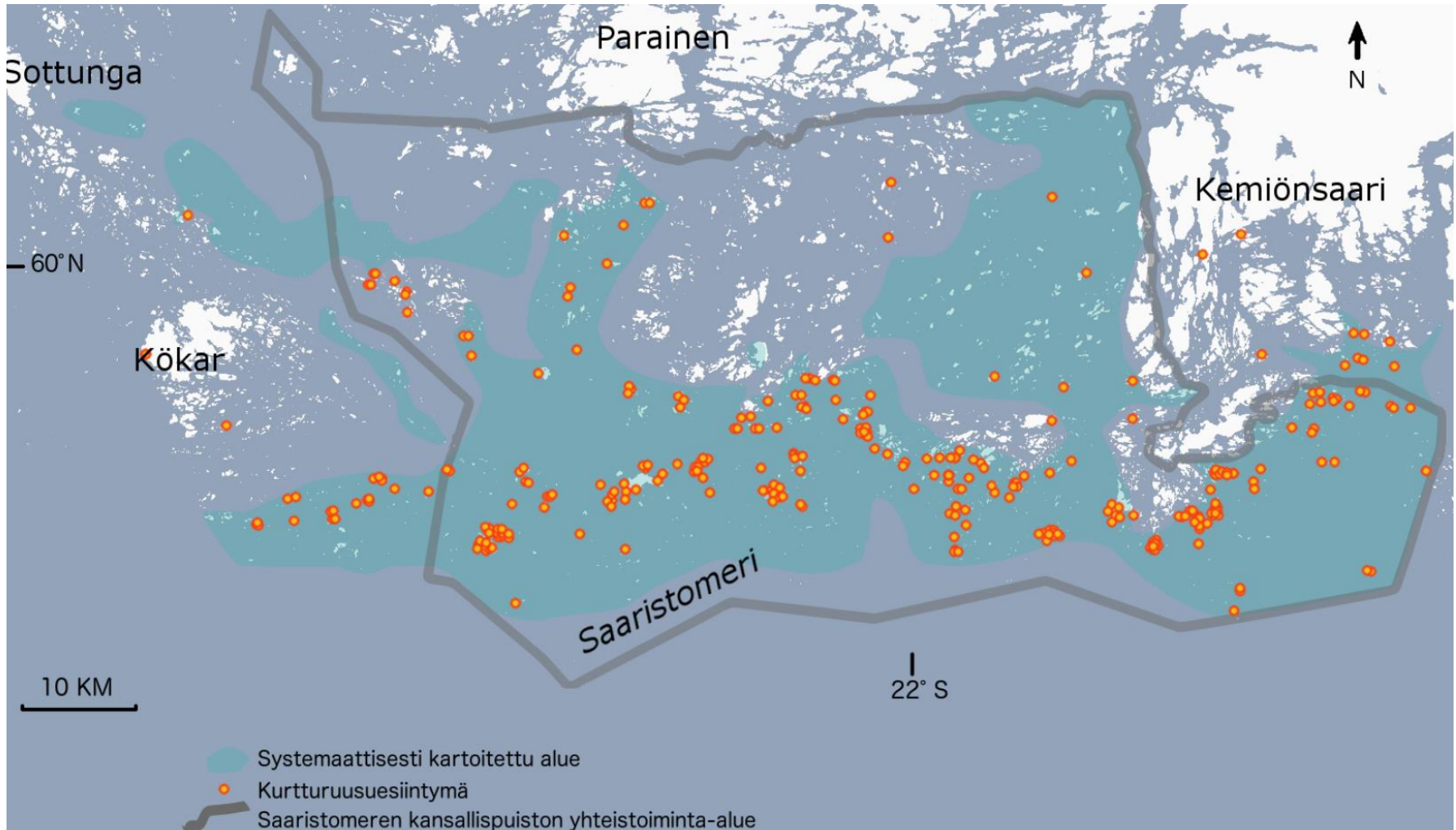
Member of The Finnish Advisory Board for Invasive Alien Species

Member of The Expert Group on Shore Habitats

In co-operation with Terhi Rytteri, Finnish Environment Institute



Distribution in the Archipelago Sea, SW Finland



Kunttu & Kunttu 2017, Polish Bot. J. 62(1): 99–115

Kunttu & Kunttu 2019, Mem. Soc. Fauna Flora Fennica 95: 81–88.

Archipelago Sea National Park and its surroundings

- 350 occurrences
- Most common on stone shores
- The largest stands grow on sand beaches
- Median size 6 m²
 - The largest stand has been 2500 m²



Table 1. Number of stands of the invasive alien *Rosa rugosa* Thunb. and their area according to habitat type: – no information available, stands not found.

Habitat type	Number of stands	Total area (m ²)	Median size (m ²)	Range (m ²)
Sandy beach	19	5356	16	0.5–2500
Stony shore	94	737	4.5	0.5–58
Seashore meadow and dry meadow	50	982	13	0.5–100
Dwarf shrub heath	9	60	6	0.5–17
Rock outcrops	29	142	1	0.5–30
Unknown	4	–	–	–
Total	205	7277	6	0.5–2500



Chemical treatment with glyphosate

- Effective eradication method and in many cases only workable (remote areas, stony grounds, large stands)
- Often two treatments are needed
- Environmental effects can be minimized with precisely treatment of spray, then chemical do not spread elsewhere
- Treatment during good weather: dry weather and weak wind
- Information sign is important





Suppression with tarpaulins

- Easy and effective, but not yet long experience
- Tarpaulin must be strong and heavy $> 600 \text{ g/m}^2$
- Tarpaulins set on site 3 years and then monitoring some years more
- We do not know how long-lived seed bank is





Manual and mechanical uprooting



Roots remain still in the ground and repetition is needed



Shriveling

Ripping all leaves off 3 times per summer, bush will wither away and will die in ca. 4 years



Shriveling – time span

Photos: Terhi Rytteri



In Finnish:

<https://www.allergia.fi/site/assets/files/25158/vieraslajiopas-1.pdf>



In Swedish:

https://www.allergia.fi/site/assets/files/25158/vieraslajiopas_pasvenska2020.pdf



Naissaare, Estonia



Thank you! Together possible.

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