

Spread of *Campylopus introflexus* (Hedw.) Brid. in protected areas on sandstone soils in Saxony-Anhalt, Germany

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Native regional distribution shown in black. Alien regional distribution shown in red.
(Klinck 2009).

1941 Southern part of Great Britain

1954 Bretagne

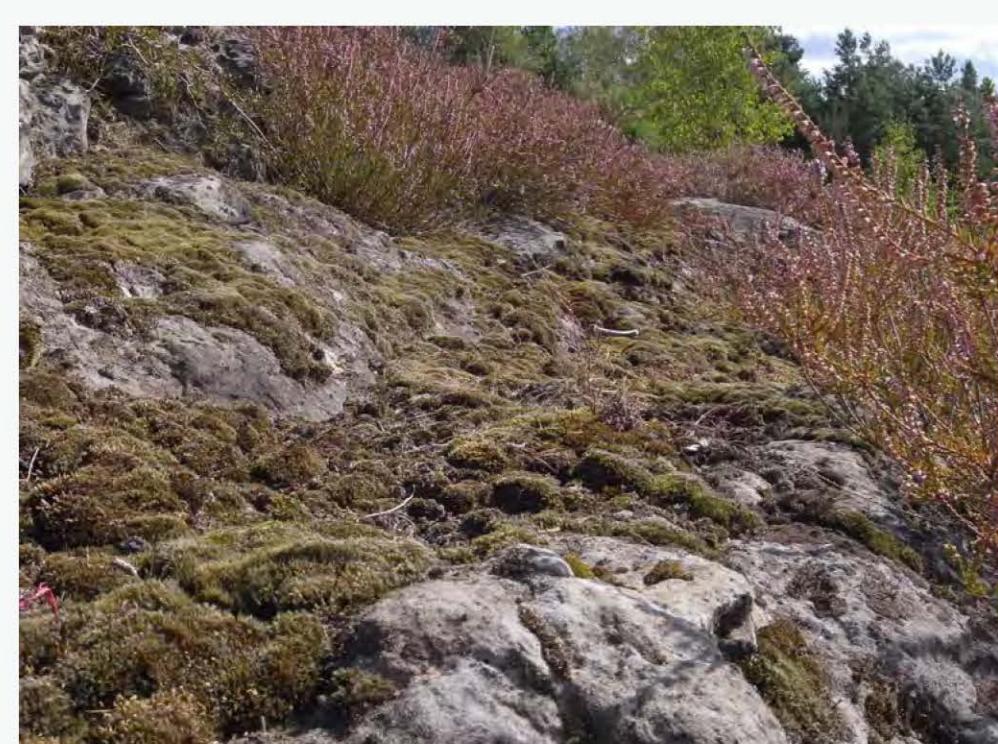
1967 Germany near Münster

1986 Poland

1988 Tchecoslovakia



Campylopus introflexus on Sandstone at the „Hamburger Wappen“



Dense mats of *Campylopus introflexus* on Sandstone in the Harslebener Berge northwest of Quedlinburg



Campylopus introflexus grows on stabilised sand between *Calluna vulgaris* plants on the Weinberg northwest of Quedlinburg



Dense mats of *Campylopus introflexus* on stabilised bare sandy soils in *Corynephorus canescens* grasslands in the Harslebener Berge northwest of Quedlinburg



Campylopus introflexus in Calluna heathland together with other mosses (*Polytrichum piliferum*) and lichens (*Cladonia* spec.).



KORINA – Coordination Centre Invasive Plants in protected areas of Saxony-Anhalt at UfU

The aim of KORINA is to develop and implement a management plan for alien invasive plants in Saxony-Anhalt, Germany. The main tasks are the prevention of invasions, establishing an early warning system as well as enhancing control and renaturalisation.

We established an online mapping system to improve the knowledge about the current occurrences of invasive plants in Saxony-Anhalt. Furthermore, the KORINA website gives information about invasive plant species, effective measures against them, literature, experts and stakeholders.

Moreover we increase the cooperation of the administrations, experts and nature conservation organisations to deal more effectively with invasive plants.

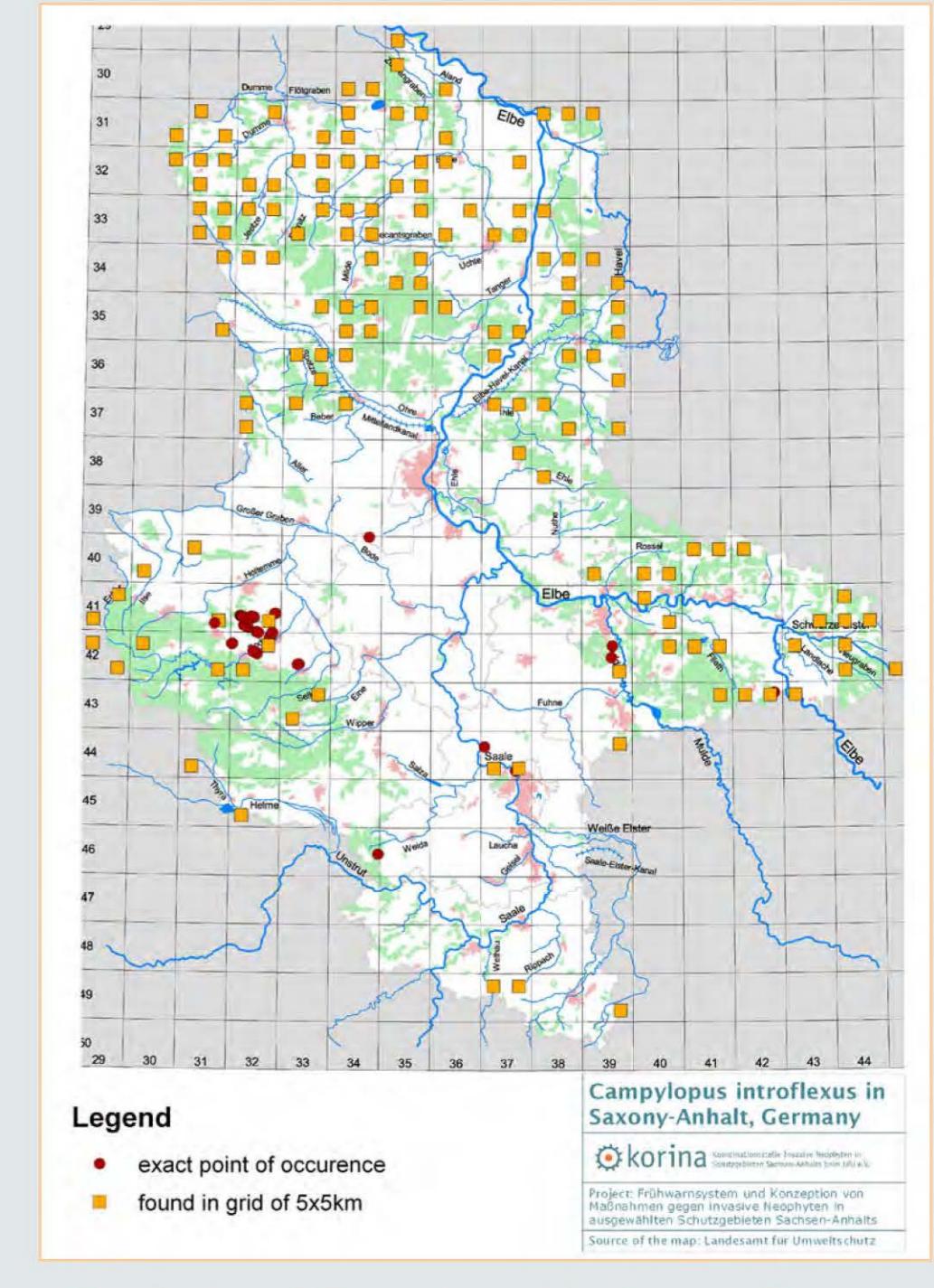
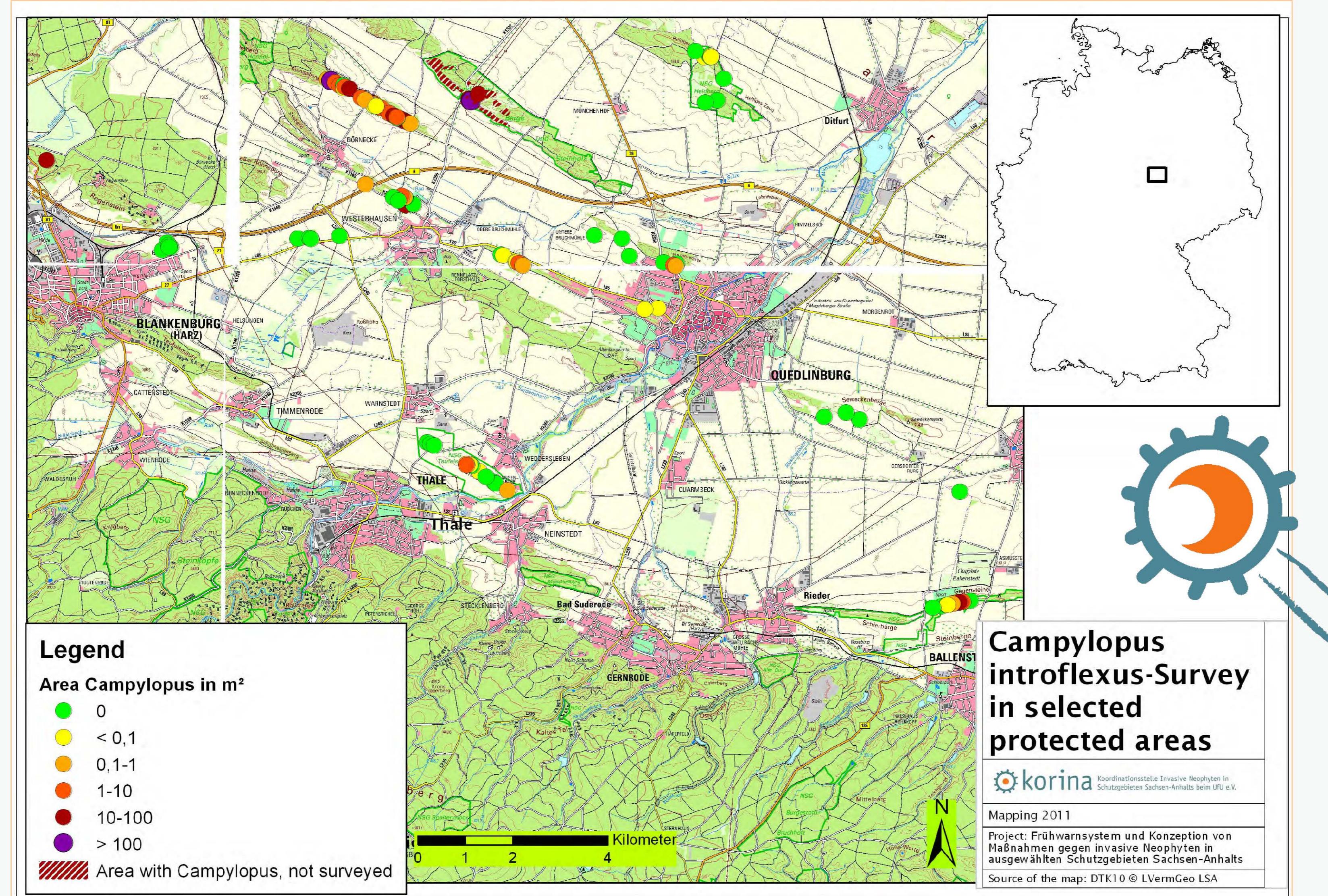
The coordination centre is part of the project "Early warning system and planning of measures against invasive plant species in Saxony-Anhalt".

KORINA – at UfU e.V.

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Campylopus introflexus is an acrocarpous, perennial moss. Plants are 0.5 – 10 cm often found in dense mats or cushions. Leaves are 4-6 mm, lanceolate ending in a characteristic hyaline hair tip, often reflexed 90°. When plants are dry these hair tips form a white star, when seen from above.

Seta is 7-12 mm long, yellowish brown to brownish in age, often with several sporophytes from the same plant, curved or sinuous. Spores are brown, 1.5 mm, slightly asymmetric and curved when empty. Spores are small, 12-14 µm (NOBANIS 2010).



The local expansion of *Campylopus introflexus* is achieved by dispersal of vegetative propagules like carpet tufts or shoot tips.

KLINCK, J. (2009): The alien invasive moss *Campylopus introflexus* in the Danish coastal dune system. Preferences – Development – Effects – Control – Master Thesis. Section for Ecology and Evolution, Department of Biology, Copenhagen University: 105 S.

NOBANIS (2010): Invasive Alien Species Fact Sheet - *Campylopus introflexus*: 14 S.

Name of Protected Area	Survey Area	Surface Area of Campylopus in m ²	Surveyed Area in m ²
FFH 0086 Sand-Silberscharten-Standorte bei Quedlinburg	Sassenberg,	0	5.500
	3 Flächen in der Straße zw. Blankenburg und Westerhausen	0	1.600
	1 Kuppe s der Straße zw. Börnecke und Westerhausen, 1 Kuppe s Gr. Kamel (und benachbarte Kuppen)	21	1.800
	Trog,	0	1.500
	Güntermannskopf,	0,01	5.700
	Felskopf s der Westerhäuser Str.,	0,07	2.500
FFH 0093 Gegensteine und Schierberge bei Ballenstedt	Steinbruch Hammwarte	5	330
	Gegensteine	21	1.750
	Teillflächen ö der Straße zw. Westerhausen und Harsleben	188	10.000
FFH 0084 Harslebener Berge und Steinholz nordwestlich Quedlinburg	gesamtes Gebiet	11	4.600
FFH 0091 Teufelsmauer nördlich Thale	gesamtes Gebiet	1	7.300
NSG Heidberg	gesamtes Gebiet	0	52.436
ND Langenberg	gesamtes Gebiet	0	11.000
LSG Sbeckenbergberge	Gebiete zw. Ochsenkopf und Gersdorfer Burg	4	1.300
ND Königstein (Gr. Kamel)	gesamtes Gebiet	5,6	1.350
FND Kl. Kamel	gesamtes Gebiet	240	37.500
LSG Harz und Nördliches Harzvorland	Steinberge, Weinberg, Schusterberg		

Estimation of the surface area of *Campylopus introflexus* in the surveyed protected areas.

