



Cladonia spp. (subgenus Cladina)

Annex	V
Priority	No
Species group	Non-vascular plants
Regions	Alpine, Atlantic, Boreal, Continental, Macaronesian, Mediterranean, Pannonian

Cladonia subgenus *Cladina* (reindeer lichens) consists of a group of at least seven species (*Cladonia arbuscula*, *C. ciliata*, *C. portentosa*, *C. rangiferina*, *C. stallaris*, *C. stygia*). The taxon has a circumpolar distribution throughout the northern hemisphere. Reindeer lichens are relatively common in a wide scale of habitats like boreal forests, dry coniferous, mixed or deciduous forests, bogs or rocks. They occur mainly on the oligotrophic substrates.

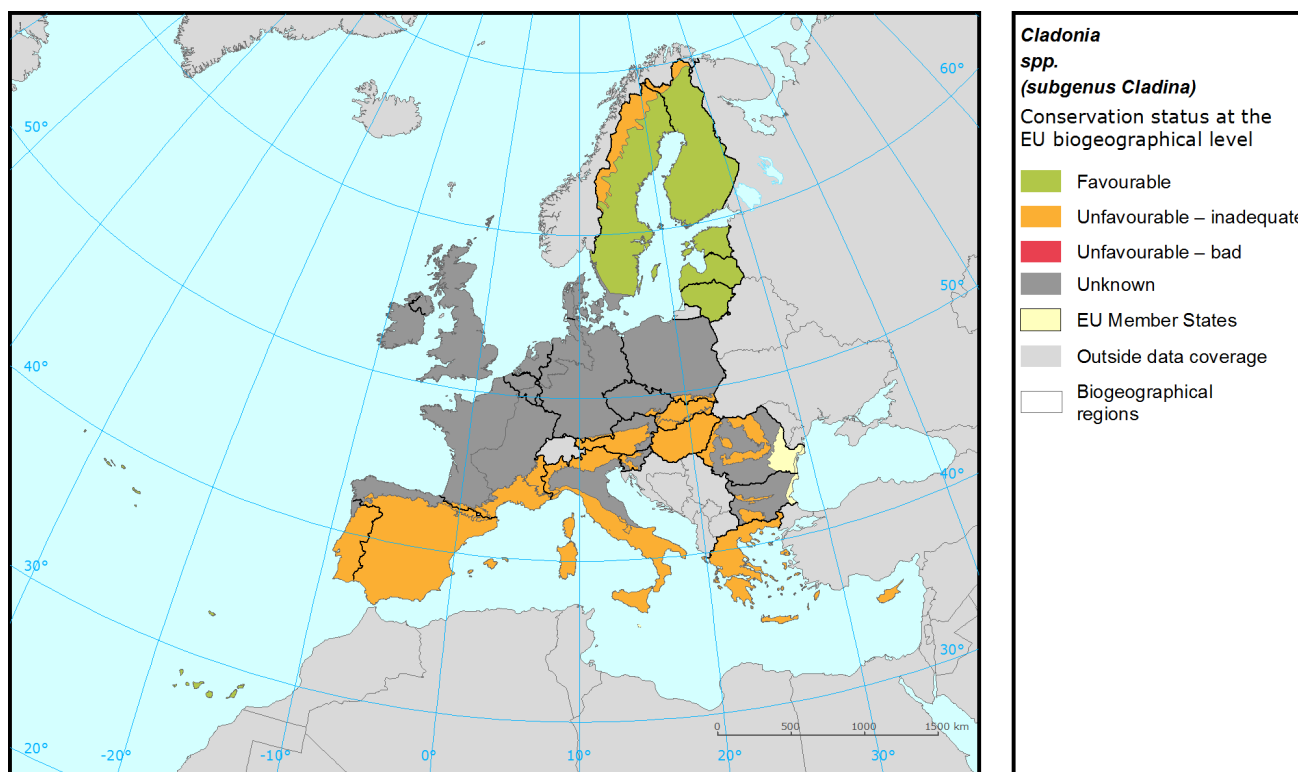
Reindeer lichens should occur in all of the biogeographical regions, but most commonly in the Boreal region. No reports were provided for the Black Sea and the Steppic biogeographical region and by Bulgaria, Greece, Lithuania, Slovakia and Slovenia, although the taxon is certainly present in these countries.

The status of the taxon is favourable in the Boreal and the Macaronesian biogeographical region and unfavourable-inadequate in the Alpine, Mediterranean and Pannonian region. Due to missing data the status in the Atlantic and the Continental biogeographical region could not be assessed.

Species: *Cladonia* spp. (subgenus *Cladina*)

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Assessment of conservation status at the European biogeographical level



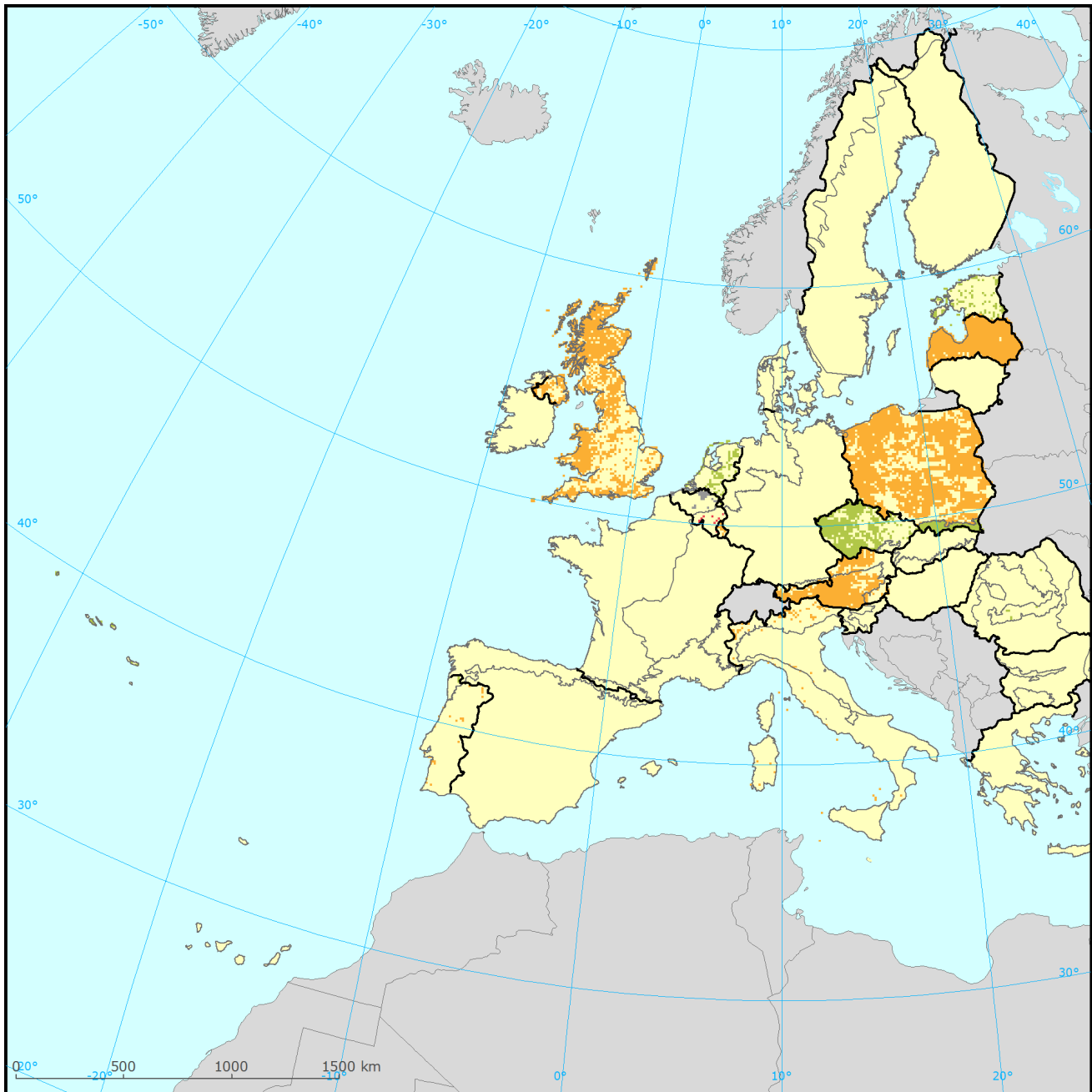
Region	Conservation status (CS) of parameters				Current CS	Trend in CS	% in region	Previous CS	Reason for change
	Range	Population	Habitat	Future prospects					
ALP					U1	-	10	XX	Not genuine
ATL					XX		29	XX	
BOR					FV		13	FV	
CON					XX		46	XX	
MAC	FV	FV	FV	FV	FV		0.29	XX	Not genuine
MED					U1	x	0.9	XX	Not genuine
PAN	U1	U1	U1	U1	U1	-	0.03	U1	

See the endnote for more informationⁱ

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



Report under the Article 17 of the Habitats Directive

Assessment of conservation status at the Member State level



Cladonia spp. (subgenus Cladina)

Distribution and conservation status at the Member State level

- | | |
|---|--|
|  Favourable |  EU Member States |
|  Unfavourable – inadequate |  Outside data coverage |
|  Unfavourable – bad |  Biogeographical region |
|  Unknown | |

The map shows both Conservation Status and distribution using a 10 km x 10 km grid. Conservation status is assessed at biogeographical level. Therefore the representation in each grid cell is only illustrative.

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MS	Region	Conservation status of parameters				Current CS	Trend in CS	% in region	Previous CS	Reason for change
		Range	Population	Habitat	Future prospects					
AT	ALP	FV	XX	U1	U1	U1	x	69.8	U1	
DE	ALP	XX	XX	U1	U1	U1	-		XX	
ES	ALP	FV	XX	FV	FV	FV			XX	Changed method
FI	ALP					U1	=		U1	Changed method
FR	ALP	XX	XX	XX	XX	XX			XX	
IT	ALP	FV	FV	FV	U1	U1	-	9.8	FV	Better data
PL	ALP	FV	FV	FV	FV	FV		19.5	U1	Better data
RO	ALP	FV	FV	FV	FV	FV		0.9		
SE	ALP	FV	FV	FV	FV	FV			FV	
BE	ATL	FV	XX	XX	XX	XX		2.2	U2	
DE	ATL	XX	U2	XX	XX	U2	x		FV	
DK	ATL	XX	XX	U2	U2	U2	x			
ES	ATL	FV	FV	FV	FV	FV			XX	Changed method
FR	ATL	XX	XX	XX	XX	XX			XX	
IE	ATL					U1	=		U1	
NL	ATL	FV	XX	FV	FV	FV		6.1	FV	
PT	ATL	FV	FV	FV	FV	FV		0.2	U2	Changed method
UK	ATL	FV	FV	U1	FV	U1	=	91.5	XX	Better data
EE	BOR	FV	FV	FV	FV	FV		13.8	FV	
FI	BOR					FV			FV	
LV	BOR	FV	U1	U1	U1	U1	-	86.2	FV	Changed method
SE	BOR	FV	FV	FV	FV	FV			FV	
AT	CON	FV	XX	U1	U1	U1	x	5.0	U1	
BE	CON	U2	U2	XX	XX	U2	x	0.4	XX	
CZ	CON	FV	FV	FV	FV	FV		16.9	U1	Changed method
DE	CON	XX	XX	XX	XX	XX			U1	
DK	CON	XX	XX	U2	U2	U2	x			
FR	CON	XX	XX	XX	XX	XX			XX	
IT	CON	FV	FV	FV	U1	U1	-	0.2	FV	Better data
LU	CON	U1	U1	U1	U1	U1	x	0.5	XX	
PL	CON	FV	U1	U1	FV	U1	=	77.0	FV	Better data
RO	CON	FV	FV	FV	FV	FV				
SE	CON	FV	FV	FV	FV	FV			FV	
PT	MAC	FV	FV	FV	FV	FV		100.0	XX	Better data

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MS	Region	Conservation status of parameters				Current CS	Trend in CS	% in region	Previous CS	Reason for change
		Range	Population	Habitat	Future prospects					
ES	MED	U1	U1	U1	U1	+		XX	Changed method	
FR	MED	XX	XX	XX	XX		XX			
IT	MED	FV	XX	U1	U1	-	50.9	FV	Better data	
PT	MED	U1	U1	U1	XX	x	49.1	U2	Changed method	
CZ	PAN	XX	XX	XX	XX		100.0	U1		
HU	PAN	U1	U1	U1	U1	-		U1	Better data	

Knowing that not all changes in conservation status between the reporting periods were genuine, Member States were asked to give the reasons for changes in conservation status. Bulgaria and Romania only joined the EU in 2007 and Greece did not report for 2007-12 so no reason is given for change for these countries. Greek data shown above is from 2001-06.

Main pressures and threats reported by Member States

Member States were asked to report the 20 most important threats and pressures using an agreed hierarchical list which can be found on the [Article 17 Reference Portal](#). Pressures are activities which are currently having an impact on the species and threats are activities expected to have an impact in the near future. Pressures and threats were ranked in three classes 'high, medium and low importance'; the tables below only show threats and pressures classed as 'high', for some species there were less than ten threats or pressures reported as highly important.

Ten most frequently reported 'highly important' pressures

Code	Activity	Frequency
H04	Air pollution, air-borne pollutants	17
K02	Vegetation succession/Biocenotic evolution	13
B02	Forest and plantation management & use	9
D01	Roads, railroads and paths	6
G05	Other human intrusions and disturbances	6
J03	Other changes to ecosystems	6
A04	Grazing by livestock	4
E01	Urbanisation and human habitation	4
E03	Discharges (household/industrial)	4
F04	Taking and collection of terrestrial plants	4

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Ten most frequently reported 'highly important' threats

Code	Activity	Frequency
H04	Air pollution, air-borne pollutants	16
K02	Vegetation succession/Biocenotic evolution	11
B02	Forest and plantation management & use	9
D01	Roads, railroads and paths	7
G05	Other human intrusions and disturbances	7
A04	Grazing by livestock	5
E01	Urbanisation and human habitation	5
E03	Discharges (household/industrial)	5
F04	Taking and collection of terrestrial plants	5
I01	Invasive alien species	5

This information is derived from the Member State national reports submitted to the European Commission under Article 17 of the Habitats Directive in 2013 and covering the period 2007-2012. More detailed information, including the MS reports, is available at:

<http://bd.eionet.europa.eu/article17/reports2012/species/summary/?group=Non-vascular+plants&period=3&subject=Cladonia+spp.+%28subgenus+Cladina%29>

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i Assessment of conservation status at the European biogeographical level: Current Conservation Status (Current CS) shows the status for the reporting period 2007-2012, Previous Conservation Status (Previous CS) for the reporting period 2000-2006. Reason for change in conservation status between the reporting periods indicates whether the changes in the status were genuine or not genuine. Previous Conservation Status was not assessed for Steppic, Black Sea and Marine Black Sea regions. For these regions the Previous status is therefore considered as 'unknown'. The percentage of the species population occurring within the biogeographical/marine region (% in region) is calculated based on the area of GIS distribution.