

# Report on the main results of the surveillance under article 11 for annex I habitat types (Annex D)

CODE: **3140**

NAME: **3140 Hard oligo-mesotrophic waters with benthic vegetation of Chara spp**

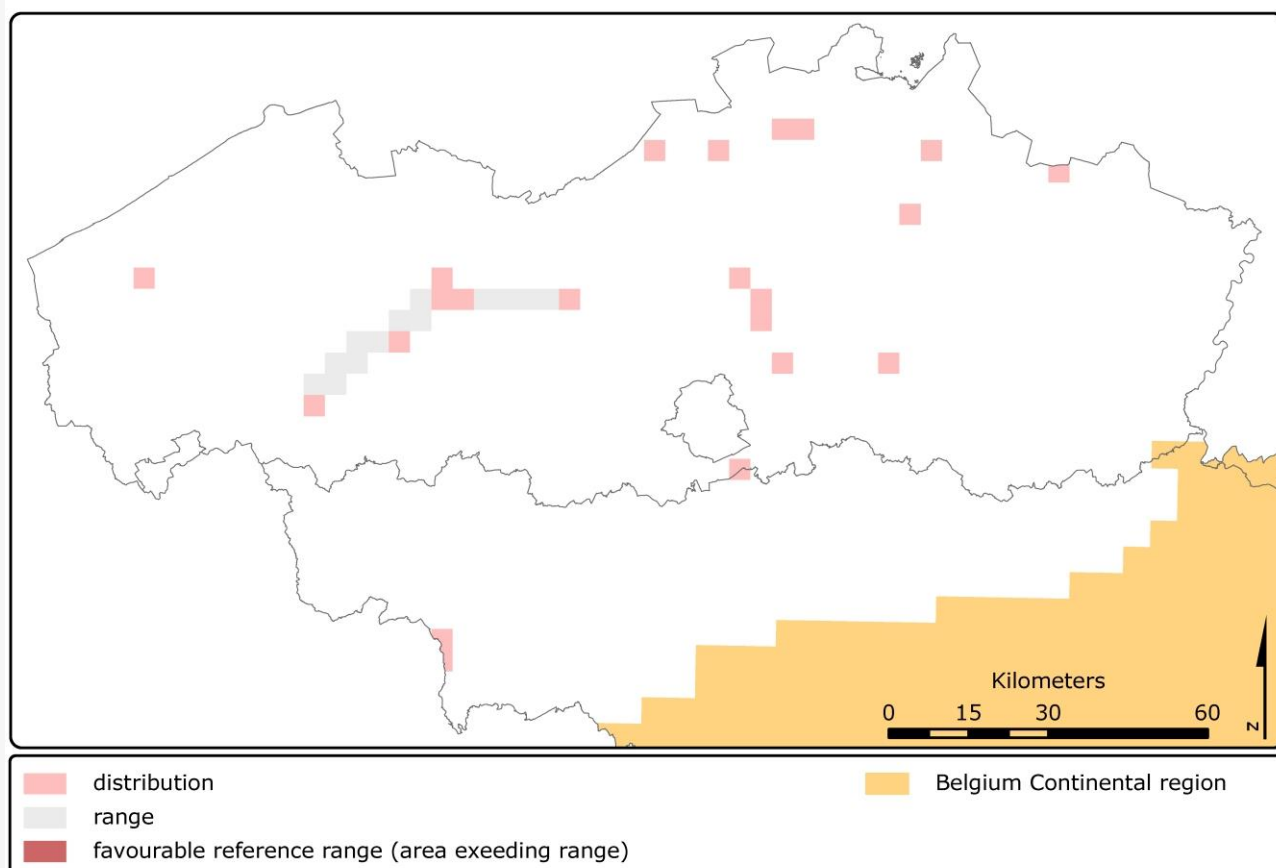
## 1. National level

Biogeographic regions and/or marine regions concerned within the member state: **ATL CON**

## 2. Biogeographical or marine level

### 2.1 Biogeographic region or marine region: Atlantic

Leyssen A., Delescaille L.M., Denys L., Packet J., Van Landuyt W. & Paelinckx D. (2008) Conservation status of the Natura 2000 habitat 3140 (Hard oligo-mesotrophic waters with benthic vegetation of Chara spp.) for the Belgian Atlantic region, In: Paelinckx D., Van Landuyt W. & De Bruyn L. (ed.). Conservation status of the Natura 2000 habitats and species. Report of the Research Institute for Nature and Forest, INBO.R.2008.15. Brussels. In prep



2.2 Published sources and/or websites [www.inbo.be/natura2000/](http://www.inbo.be/natura2000/)

### 2.3 Range of the habitat type in the biogeographic region or marine region

2.3.1 Surface area of range in km<sup>2</sup> 544

2.3.2 Date of range determination 1997-2006

2.3.3 Quality of data concerning range Moderate e.g. based on partial data with some extrapolation

2.3.4 Range trend	Stable (=)
2.3.5 Range trend magnitude in km <sup>2</sup> (optional)	N/A
2.3.6 Range trend period	1994-2006
2.3.7 Reasons for reported trend	Unknown
Other (specify)	N/A
<b>2.4 Area covered by habitat type in the biogeographic region or marine region</b>	
2.4.1 Surface area of the habitat type (km <sup>2</sup> )	2.04
2.4.2 Date of area estimation	1997-2006
2.4.3 Method used for area estimation	Ground based survey (based on field mapping, possibly using stratified random sampling Based on expert opinion
2.4.4 Quality of data on area	Moderate e.g. based on partial data with some extrapolation
2.4.5 Area trend	Stable (=)
2.4.6 Area trend magnitude (km <sup>2</sup> )	N/A
2.4.7 Area trend period	1994-2006
2.4.8 Reasons for reported trend	Unknown
Other (specify)	N/A
2.4.9 Justification of % thresholds for trends (optional)	N/A
2.4.10 Main pressures	110 Use of pesticides 190 Agriculture and forestry activities not referred to above 290 Hunting, fishing or collecting activities not referred to above 400 Urbanised areas, human habitation 420 Discharges 620 Outdoor sports and leisure activities 701 - water pollution 790 Other pollution or human impacts/activities 803 - infilling of ditches, dykes, ponds, pools, marshes or pits 850 Modification of hydrographic functioning, general 920 Drying out 951 - drying out / accumulation of organic material 952 - eutrophication 979 - other forms or mixed forms of interspecific floral competition
2.4.11 Threats	290 Hunting, fishing or collecting activities not referred to above 701 - water pollution 790 Other pollution or human impacts/activities 952 - eutrophication
<b>2.5 Complementary information</b>	
2.5.1 Favourable reference range (km <sup>2</sup> )	Much more than field 2.3.1 544
2.5.2 Favourable reference area (km <sup>2</sup> )	More than field 2.4.1 2.04
2.5.3 Typical species	Chara aculeolata / Kützing
2.5.3 Typical species	Chara aspera / Detharding
2.5.3 Typical species	Chara connivens / Salzmann
2.5.3 Typical species	Chara fragifera / Durieu de la Maironneuve
2.5.3 Typical species	Chara virgata / Kützing
2.5.3 Typical species	Chara hispida / L.
2.5.3 Typical species	Nitella capillaris / (Krocker) J. Groves & Bullock-Webster

2.5.3 Typical species	Nitella gracilis / (Smith) Ag.	
2.5.3 Typical species	Nitella tenuissima / (Desvaux) Kützing	
2.5.3 Typical species	Nitella translucens / (Persoon) Ag.	
2.5.3 Typical species	Nitellopsis obtusa / (Desvaux) J. Groves	
2.5.3 Typical species	Potamogeton coloratus / Hornem.	
2.5.3 Typical species	Tolypella glomerata / (Desvaux) Leonhardi	
2.5.3 Typical species	Tolypella intricata / (Trentepohl) Leonhardi	
2.5.3 Typical species	Tolypella prolifera / (Ziz) Leonhardi	
2.5.3 Typical species	Chara contraria / A.Br. Ex Kütz.	
2.5.4 Typical species assessment	Standing waters are considered to be well developed when a dense carpet of charophytes is present, 1 typical species occurs abundantly and there is also at least another typical species present	
2.5.5 Other relevant information (optional)	Although the range and area estimation have a moderate quality, trends are estimated by expert judgement. For the Atlantic region, no map for the FRR was made, due to a lack of knowledge.	
<b>Conclusion</b>	<b>Biogeographical or marine level</b>	<b>Conclusions within Natura 2000 sites (optional)</b>
(2.3) Range	Bad (U2)	Bad (U2)
(2.4) Area	Inadequate (U1)	Inadequate (U1)
(2.5) Structure and function, including typical species	Bad (U2)	Bad (U2)
Future prospects	Unknown (XX)	Unknown (XX)
Overall assessment	Bad (U2)	Bad (U2)
<b>2.1 Biogeographic region or marine region: Continental</b>		
2.2 Published sources and/or websites	<a href="http://biodiversite.wallonie.be/sites/natura2000/">biodiversite.wallonie.be/sites/natura2000/</a>	
<b>2.3 Range of the habitat type in the biogeographic region or marine region</b>		
2.3.1 Surface area of range in km2	48	
2.3.2 Date of range determination	1994-2006	
2.3.3 Quality of data concerning range	Poor e.g. based on very incomplete data or on expert judgement	
2.3.4 Range trend	Stable (=)	
2.3.5 Range trend magnitude in km2 (optional)	N/A	
2.3.6 Range trend period	1994-2006	
2.3.7 Reasons for reported trend	Not applicable	
Other (specify)	N/A	
<b>2.4 Area covered by habitat type in the biogeographic region or marine region</b>		
2.4.1 Surface area of the habitat type (km2)	0.01	
2.4.2 Date of area estimation	1994-2006	
2.4.3 Method used for area estimation	Based on expert opinion	
2.4.4 Quality of data on area	Poor e.g. based on very incomplete data or on expert judgement	

2.4.5 Area trend	Stable (=)
2.4.6 Area trend magnitude (km2)	N/A
2.4.7 Area trend period	1994-2006
2.4.8 Reasons for reported trend	Not applicable
Other (specify)	N/A
2.4.9 Justification of % thresholds for trends (optional)	N/A
2.4.10 Main pressures	701 - water pollution 800 Landfill, land reclamation and drying out, general 803 - infilling of ditches, dykes, ponds, pools, marshes or pits 850 Modification of hydrographic functioning, general 952 - eutrophication
2.4.11 Threats	701 - water pollution 800 Landfill, land reclamation and drying out, general 803 - infilling of ditches, dykes, ponds, pools, marshes or pits 850 Modification of hydrographic functioning, general 952 - eutrophication
<b>2.5 Complementary information</b>	
2.5.1 Favourable reference range (km2)	Much more than field 2.3.1 48
2.5.2 Favourable reference area (km2)	Much more than field 2.4.1 0.01
2.5.3 Typical species	Chara aculeolata / Kützing
2.5.3 Typical species	Chara aspera / Detharding
2.5.3 Typical species	Chara connivens / Salzmann
2.5.3 Typical species	Chara fragifera / Durieu de la Maironneuve
2.5.3 Typical species	Chara virgata / Kützing
2.5.3 Typical species	Chara hispida / L.
2.5.3 Typical species	Nitella capillaris / (Krocker) J. Groves & Bullock-Webster
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2.5.3 Typical species	Tolypella intricata / (Trentepohl) Leonhardi
2.5.3 Typical species	Tolypella prolifera / (Ziz) Leonhardi
2.5.3 Typical species	Chara contraria / A.Br. Ex Kütz.
2.5.4 Typical species assessment	Presence of at least one typical species
2.5.5 Other relevant information (optional)	N/A
<b>Conclusion</b>	<b>Biogeographical or marine level</b> <b>Conclusions within Natura 2000 sites</b>

		<b>(optional)</b>
(2.3) Range	Bad (U2)	N/A
(2.4) Area	Bad (U2)	N/A
(2.5) Structure and function, including typical species	Bad (U2)	N/A
Future prospects	Bad (U2)	N/A
Overall assessment	Bad (U2)	N/A