

**European Community Directive
on the Conservation of Natural Habitats
and of Wild Fauna and Flora
(92/43/EEC)**

**Fourth Report by the United Kingdom
under Article 17**

on the implementation of the Directive
from January 2013 to December 2018

Conservation status assessment for the habitat:

**H3110 - Oligotrophic waters containing very few
minerals of sandy plains (*Littorelletalia uniflorae*)**

UNITED KINGDOM

IMPORTANT NOTE - PLEASE READ

- The information in this document represents the UK Report on the conservation status of this habitat, submitted to the European Commission as part of the 2019 UK Reporting under Article 17 of the EU Habitats Directive.
- It is based on supporting information provided by the geographically-relevant Statutory Nature Conservation Bodies, which is documented separately.
- The 2019 Article 17 UK Approach document provides details on how this supporting information contributed to the UK Report and the fields that were completed for each parameter.
- The reporting fields and options used are aligned to those set out in the European Commission guidance.
- Maps showing the distribution and range of the habitat are included (where available).
- Explanatory notes (where provided) are included at the end. These provide additional audit trail information to that included within the UK assessments. Further underpinning explanatory notes are available in the related country-level and/or UK offshore-level reports.
- Some of the reporting fields have been left blank because either: (i) there was insufficient information to complete the field; and/or (ii) completion of the field was not obligatory.
- The UK-level reporting information for all habitats and species is also available in spreadsheet format.

Visit the JNCC website, <https://jncc.gov.uk/article17>, for further information on UK Article 17 reporting.

Report on the main results of the surveillance under Article 17 for Annex I habitat types (Annex D)

NATIONAL LEVEL

1. General information

1.1 Member State	UK
1.2 Habitat code	3110 - Oligotrophic waters containing very few minerals of sandy plains (Litto

2. Maps

2.1 Year or period	1983-2007
2.3 Distribution map	Yes
2.3 Distribution map Method used	Complete survey or a statistically robust estimate
2.4 Additional maps	No

BIOGEOGRAPHICAL LEVEL

3. Biogeographical and marine regions

3.1 Biogeographical or marine region where the habitat occurs	Atlantic (ATL)
3.2 Sources of information	<p>England</p> <p>Hughes M, Hornby DD, Bennion H, Kernan, M, Hilton J et al. (2004) The development of a GIS-based inventory of standing waters in Great Britain together with a risk-based prioritisation protocol. Water, Air and Soil Pollution: Focus 4:73-84.</p> <p>Williams, P., Biggs, J., Crowe, A., Murphy, J., Nicolet, P., Weatherby, A., Dunbar M., (2010) Ponds Report from 2007. CS Technical Report No. 7/07</p> <p>Carvalho, L. and Moss, B. (1998) Lake SSSIs subject to eutrophication: environmental audit. English Nature Freshwater Series No. 3. Peterborough: English Nature.</p> <p>Environment Agency (2016) Water Framework Directive Surface Water Bodies in England: Classification Status and Objectives - Cycle 2, data from 2013 -2016 Natural England CMSi condition data</p> <p>Mainstone C.,& Burn A. (2011) Relationships between ecological objectives and associated decision-making under the Habitats and Water Framework Directives. Discussion paper, Natural England.</p> <p>Clarke, S. (2014) Lowland oligotrophic lakes in England: An examination of these English rarities. British Wildlife, 177-184.</p> <p>Hall, R. A. (2018) Explanatory notes for the standing water analysis and reporting for Article 17 round 4. Natural England paper.</p> <p>Burgess, A, Goldsmith, B and Goodrich, S. (2014) Interpretation of Water Framework Directive Macrophyte Data for CSM Condition Assessment. Report to Natural England</p> <p>Tomlinson, M., Perrow M., Harwood A., Berridge R., (2017) Quantifying fish populations in SSSI lakes phase 2: site-specific reporting of the role of fish in lake management. Report to Natural England.</p> <p>Scotland</p> <p>Previous report</p> <p>SCM Database</p>

4. Range

4.1 Surface area (in km ²)	18015.37
4.2 Short-term trend Period	2007-2018

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4.3 Short-term trend Direction	Stable (0)	
4.4 Short-term trend Magnitude	a) Minimum	b) Maximum
4.5 Short-term trend Method used	Based mainly on extrapolation from a limited amount of data	
4.6 Long-term trend Period		
4.7 Long-term trend Direction		
4.8 Long-term trend Magnitude	a) Minimum	b) Maximum
4.9 Long-term trend Method used		
4.10 Favourable reference range	a) Area (km ²)	18015.37
	b) Operator	
	c) Unknown	No
	d) Method	The FRR is approximately equal to the current range area. The approach taken to set the FRR is explained in the 2007 and 2013 UK Article 17 habitat reports (see http://jncc.defra.gov.uk/page-4064 and http://jncc.defra.gov.uk/page-6563).
4.11 Change and reason for change in surface area of range	Improved knowledge/more accurate data	
	The change is mainly due to:	Improved knowledge/more accurate data
4.12 Additional information		

5. Area covered by habitat

5.1 Year or period	1983-2007		
5.2 Surface area (in km²)	a) Minimum	b) Maximum	c) Best single value 10.99
5.3 Type of estimate	Best estimate		
5.4 Surface area Method used	Complete survey or a statistically robust estimate		
5.5 Short-term trend Period	2007-2018		
5.6 Short-term trend Direction	Stable (0)		
5.7 Short-term trend Magnitude	a) Minimum	b) Maximum	c) Confidence interval
5.8 Short-term trend Method used	Based mainly on expert opinion with very limited data		
5.9 Long-term trend Period			
5.10 Long-term trend Direction			
5.11 Long-term trend Magnitude	a) Minimum	b) Maximum	c) Confidence interval
5.12 Long-term trend Method used			
5.13 Favourable reference area	a) Area (km²)		
	b) Operator	Approximately equal to (≈)	
	c) Unknown	No	
	d) Method	The FRA is approximately equal to the current area. The approach taken to set the FRA is explained in the 2007 and 2013 UK Article 17 habitat reports (see http://jncc.defra.gov.uk/page-4064 and http://jncc.defra.gov.uk/page-6563).	
5.14 Change and reason for change in surface area of range	Improved knowledge/more accurate data		
	The change is mainly due to: Improved knowledge/more accurate data		
5.15 Additional information			

6. Structure and functions

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6.1 Condition of habitat	a) Area in good condition (km ²)	Minimum 0.68	Maximum 0.68
	b) Area in not-good condition (km ²)	Minimum 1.5	Maximum 1.5
	c) Area where condition is not known (km ²)	Minimum 8.6	Maximum 8.6
6.2 Condition of habitat Method used	Complete survey or a statistically robust estimate		
6.3 Short-term trend of habitat area in good condition Period	2007-2018		
6.4 Short-term trend of habitat area in good condition Direction	Stable (0)		
6.5 Short-term trend of habitat area in good condition Method used	Based mainly on extrapolation from a limited amount of data		
6.6 Typical species	Has the list of typical species changed in comparison to the previous reporting period?		
6.7 Typical species Method used	No		
6.8 Additional information			

7. Main pressures and threats

7.1 Characterisation of pressures/threats

Pressure	Ranking
Agricultural activities generating point source pollution to surface or ground waters (A25)	M
Agricultural activities generating diffuse pollution to surface or ground waters (A26)	H
Pollution to surface or ground water due to urban run-offs (F11)	H
Discharge of urban waste water (excluding storm overflows and/or urban run-offs) generating pollution to surface or ground water (F12)	M
Management of fishing stocks and game (G08)	H
Invasive alien species of Union concern (I01)	M
Other invasive alien species (other than species of Union concern) (I02)	H
Abstraction from groundwater, surface water or mixed water (K01)	M
Drainage (K02)	M
Modification of hydrological flow (K04)	H
Threat	Ranking
Agricultural activities generating point source pollution to surface or ground waters (A25)	M
Agricultural activities generating diffuse pollution to surface or ground waters (A26)	H
Pollution to surface or ground water due to urban run-offs (F11)	H

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Discharge of urban waste water (excluding storm overflows and/or urban run-offs) generating pollution to surface or ground water (F12)	M
Management of fishing stocks and game (G08)	H
Invasive alien species of Union concern (I01)	M
Other invasive alien species (other than species of Union concern) (I02)	H
Abstraction from groundwater, surface water or mixed water (K01)	M
Drainage (K02)	M
Modification of hydrological flow (K04)	H

7.2 Sources of information

7.3 Additional information

8. Conservation measures

8.1 Status of measures	a) Are measures needed?	Yes
	b) Indicate the status of measures	Measures identified and taken
8.2 Main purpose of the measures taken	Restore the habitat of the species (related to 'Habitat for the species')	
8.3 Location of the measures taken	Both inside and outside Natura 2000	
8.4 Response to the measures	Medium-term results (within the next two reporting periods, 2019-2030)	
8.5 List of main conservation measures		

Reduce/eliminate point pollution to surface or ground waters from agricultural activities (CA10)

Reduce diffuse pollution to surface or ground waters from agricultural activities (CA11)

Reduce/eliminate point source pollution to surface or ground waters from industrial, commercial, residential and recreational areas and activities (CF04)

Reduce/eliminate diffuse pollution to surface or ground waters from industrial, commercial, residential and recreational areas and activities (CF05)

Reducing the impact of (re-) stocking for fishing and hunting, of artificial feeding and predator control (CG03)

Early detection and rapid eradication of invasive alien species of Union concern (CI01)

Management, control or eradication of established invasive alien species of Union concern (CI02)

Management, control or eradication of other invasive alien species (CI03)

Reduce impact of multi-purpose hydrological changes (CJ02)

Restore habitats impacted by multi-purpose hydrological changes (CJ03)

8.6 Additional information

9. Future prospects

9.1 Future prospects of parameters	a) Range	Good
	b) Area	Good
	c) Structure and functions	Bad
9.2 Additional information	Future trend of Range is Overall stable; Future trend of Area is Overall stable;	

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and Future trend of Structure and functions is Positive - slight/moderate improvement

10. Conclusions

10.1. Range	Favourable (FV)
10.2. Area	Favourable (FV)
10.3. Specific structure and functions (incl. typical species)	Unfavourable - Bad (U2)
10.4. Future prospects	Unfavourable - Bad (U2)
10.5 Overall assessment of Conservation Status	Unfavourable - Bad (U2)
10.6 Overall trend in Conservation Status	Stable (=)
10.7 Change and reasons for change in conservation status and conservation status trend	<p>a) Overall assessment of conservation status</p> <p>Genuine change</p> <p>The change is mainly due to: Genuine change</p> <p>b) Overall trend in conservation status</p> <p>Genuine change</p> <p>The change is mainly due to: Genuine change</p>
10.8 Additional information	<p>Conclusion on Range reached because: (i) the short-term trend direction in Range surface area is stable; and (ii) the current Range surface area is approximately equal to the Favourable Reference Range.</p> <p>Conclusion on Area covered by habitat reached because: (i) the short-term trend direction in Area is stable; and (ii) the current Area is approximately equal to the Favourable Reference Area.</p> <p>Conclusion on Structure and functions reached because habitat condition data indicates that more than 25% of the habitat is in unfavourable (not good) condition.</p> <p>Conclusion on Future prospects reached because: (i) the Future prospects for Range are good; (ii) the Future prospects for Area covered by habitat are good; and (iii) the Future prospects for Structure and functions are bad.</p> <p>Overall assessment of Conservation Status is Unfavourable-bad because one or more of the conclusions is Unfavourable-bad.</p> <p>Overall trend in Conservation Status is based on the combination of the short-term trends for Range - stable, Area covered by habitat - stable, and Structure and functions - stable.</p> <p>Change in Overall assessment due to Structure and functions and Future prospects conclusions changing from Unfavourable-inadequate in 2013 to Unfavourable-bad in 2019.</p> <p>Change in Overall trend due to Structure and functions trend changing from increasing in 2013 to stable in 2019.</p> <p>The Overall assessment of Conservation Status has changed between 2013 and 2019 because the conclusions for Structure and functions and Future Prospects have changed from Unfavourable-inadequate to Unfavourable-bad.</p> <p>The Overall trend in Conservation Status has changed between 2013 and 2019 because the Structure and functions trend has changed from increasing to stable.</p>

11. Natura 2000 (pSCIs, SCIs, SACs) coverage for Annex I habitat types

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11.1 Surface area of the habitat type inside the pSCIs, SCIs and SACs network (in km² in biogeographical/ marine region)	a) Minimum b) Maximum c) Best single value 1.23
11.2 Type of estimate	Minimum
11.3 Surface area of the habitat type inside the network Method used	Based mainly on extrapolation from a limited amount of data
11.4 Short-term trend of habitat area in good condition within the network Direction	Stable (0)
11.5 Short-term trend of habitat area in good condition within network Method used	Based mainly on extrapolation from a limited amount of data
11.6 Additional information	

12. Complementary information

12.1 Justification of % thresholds for trends
12.2 Other relevant information

Distribution Map

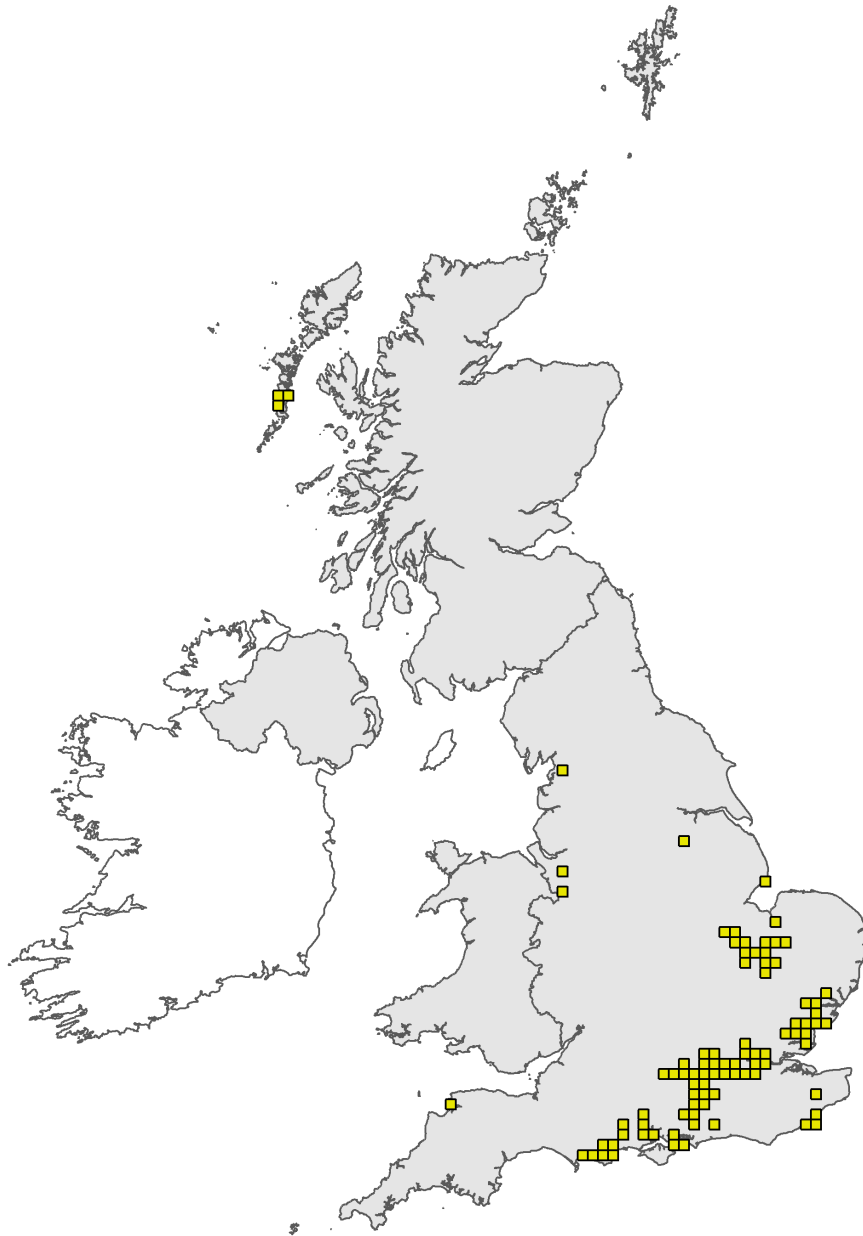


Figure 1: UK distribution map for H3110 - Oligotrophic waters containing very few minerals of sandy plains (*Littorelletalia uniflorae*). Coastline boundary derived from the Oil and Gas Authority's OGA and Lloyd's Register SNS Regional Geological Maps (Open Source). Open Government Licence v3 (OGL). Contains data © 2017 Oil and Gas Authority.

The 10km grid square distribution map is based on available habitat records which are considered to be representative of the distribution within the current reporting period. For further details see the 2019 Article17 UK Approach document.

Range Map

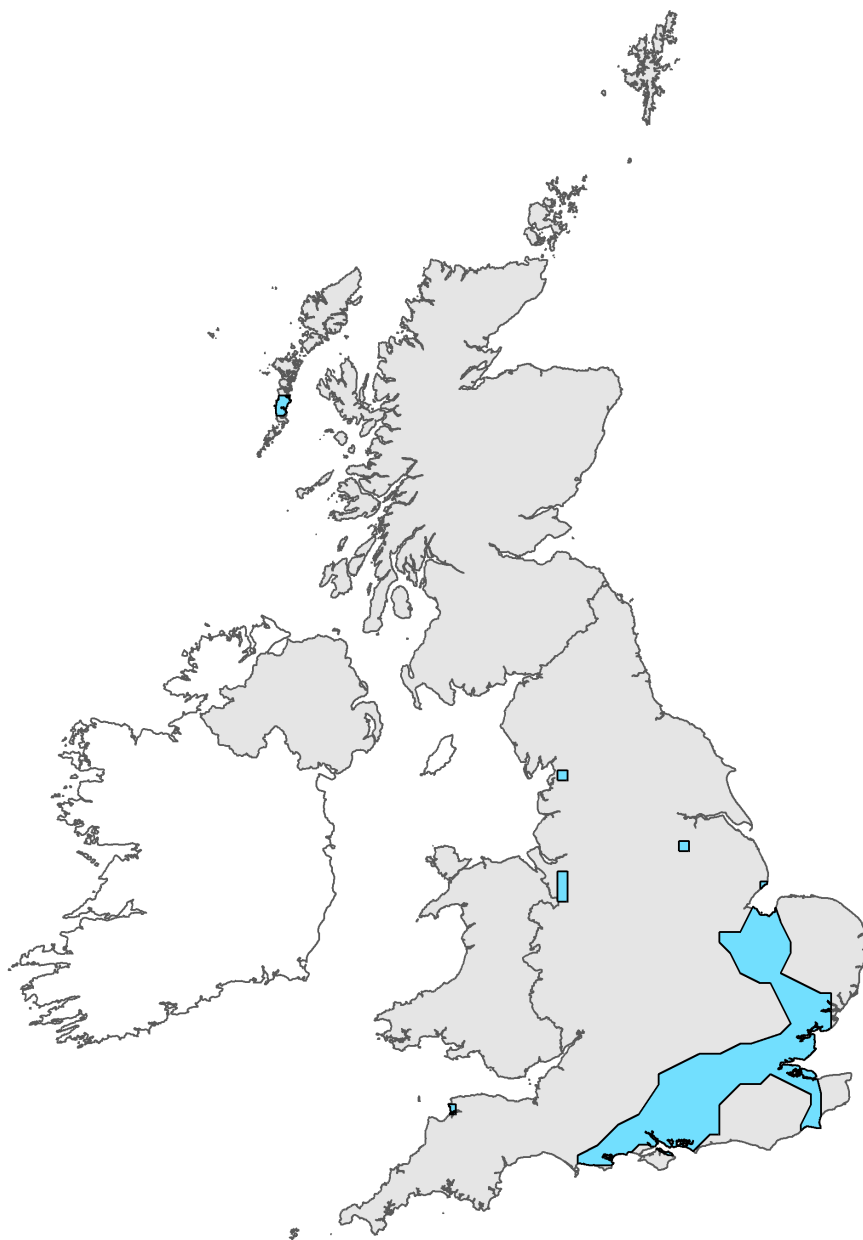


Figure 2: UK range map for H3110 - Oligotrophic waters containing very few minerals of sandy plains (*Littorelletalia uniflorae*). Coastline boundary derived from the Oil and Gas Authority's OGA and Lloyd's Register SNS Regional Geological Maps (Open Source). Open Government Licence v3 (OGL). Contains data © 2017 Oil and Gas Authority.

The range map has been produced by applying a bespoke range mapping tool for Article 17 reporting (produced by JNCC) to the 10km grid square distribution map presented in Figure 1. The alpha value for this habitat was 25km. For further details see the 2019 Article 17 UK Approach document.