

35. *Sabellaria spinulosa* reefs

Sensitivity Assessment

Sensitivity scores for three *Sabellaria spinulosa* reef biotopes were obtained from MarLIN website (www.marlin.ac.uk). See case report (Appendix 10) for details of *Sabellaria spinulosa* reef biotopes used to assess this feature. The resistance, resilience and sensitivity scores for each pressure comprise those scores for the *Sabellaria spinulosa* reef biotope(s) most sensitive to that pressure.

Table A11.35. Sensitivity assessment for *Sabellaria spinulosa* reefs. Associated sectors include activities related to offshore renewable energy (O), Fishing (F), or shipping (S). NR = not relevant, NA = not assessed, NEv = no evidence, H = high, M = medium, L = low, VL = very low, N = none, NS = not sensitive. Refs = References.

Pressures		Associated sector(s)	Resistance				Resilience				Sensitivity				biotope associated with score	Refs
Classification	Pressure type		Score	QoE	AoE	DoC	Score	QoE	AoE	DoC	Score	QoE	AoE	DoC		
Physical	Physical loss (to land or freshwater habitat)	O	N	H	H	H	VL	H	H	H	H	H	H	H	All	1, 2, 3
	Physical change (to another seabed type)	O, F	N	L	NR	NR	VL	H	H	H	H	L	L	L	All	1, 2, 3

Pressures		Associated sector(s)	Resistance				Resilience				Sensitivity				biotope associated with score	Refs
Classification	Pressure type		Score	QoE	AoE	DoC	Score	QoE	AoE	DoC	Score	QoE	AoE	DoC		
	Physical change (to another sediment type)	O, F	N	M	L	NR	M	H	L	H	M	M	M	M	2	2
	Habitat structure change-removal of substratum (extraction)	O	N	H	H	H	M	H	H	H	M	H	H	H	2	2
	Abrasion/disturbance of substratum surface or seabed	O, F	L	L	NR	NR	M	M	M	M	M	L	L	L	All	1, 2, 3
Physical	Penetration or disturbance of substratum subsurface	O, F	N	M	H	H	M	M	M	M	M	M	M	M	2	2

Pressures		Associated sector(s)	Resistance				Resilience				Sensitivity				biotope associated with score	Refs
Classification	Pressure type		Score	QoE	AoE	DoC	Score	QoE	AoE	DoC	Score	QoE	AoE	DoC		
	Changes in suspended solids (water clarity)	O, F	H	H	L	H	H	H	H	H	NS	H	M	L	All	1, 2, 3
	Smothering and siltation changes (light)	O	H	H	M	NR	H	H	H	H	NS	H	M	L	All	1, 2, 3
	Smothering and siltation changes (heavy)	O	N	L	NR	NR	M	H	L	H	M	L	L	L	All	1, 2, 3
	Underwater noise	O, F, S	NEv	NR	NR	NR	NEv	NR	NR	NR	NEv	NR	NR	NR	All	1, 2, 3
	Electromagnetic energy	O	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	All	1, 2, 3
	Barrier to species movement	O, F	M	L	NR	NR	H	M	L	M	L	L	L	L	All	1, 2, 3

Pressures		Associated sector(s)	Resistance				Resilience				Sensitivity				biotope associated with score	Refs
Classification	Pressure type		Score	QoE	AoE	DoC	Score	QoE	AoE	DoC	Score	QoE	AoE	DoC		
	Death or injury by collision	O, F, S	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	All	1, 2, 3
Hydrological	Water flow changes	O	H	H	L	H	H	H	H	H	NS	H	L	H	All	1, 2, 3
Chemical	Transition elements & organo-metal contamination	O, F, S	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	All	1, 2, 3
	Hydrocarbon & PAH contamination	O, F, S	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	All	1, 2, 3
	Synthetic compound contamination	O, F, S	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	All	1, 2, 3
Chemical	Introduction of other substances	O, F, S	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	All	1, 2, 3
	Deoxygenation	O	NEv	NA	NA	NA	NEv	NA	NA	NA	NEv	NA	NA	NA	All	1, 2, 3

Appendix 11 Sensitivity Analyses - 35 Sabellaria spinulosa reefs

Pressures		Associated sector(s)	Resistance				Resilience				Sensitivity				biotope associated with score	Refs
Classification	Pressure type		Score	QoE	AoE	DoC	Score	QoE	AoE	DoC	Score	QoE	AoE	DoC		
Biological	Introduction or spread of invasive non-indigenous species	O	NEv	NR	NR	NR	NEv	NR	NR	NR	NEv	NR	NR	NR	All	1, 2, 3
	Removal of target species	O, F, S	H	L	NR	NR	H	H	H	H	NS	L	L	L	All	1, 2, 3
	Removal of non-target species	F	L	L	NR	NR	M	M	M	M	M	L	L	L	All	1, 2, 3

References for *Sabellaria spinulosa* reefs sensitivity assessment

1. Tillin, H.M., Gibb, N., Garrard, S.L., Lloyd, K.A., & Watson, A. (2023a). Circalittoral *Sabellaria* reefs (on rock). In Tyler-Walters H. (ed) *Marine Life Information Network: Biology and Sensitivity Key Information Reviews*, [on-line]. Plymouth: Marine Biological Association of the United Kingdom. [cited 25-04-2024].
Available from: <https://www.marlin.ac.uk/habitats/detail/225>
2. Tillin, H.M., Marshall, C.E., Garrard, S.L., & Gibb, N. (2023b). *Sabellaria spinulosa* on stable circalittoral mixed sediment. In Tyler-Walters, H. & Hiscock, K. (eds) *Marine Life Information Network: Biology and Sensitivity Key Information Reviews*, [on-line]. Plymouth: Marine Biological Association of the United Kingdom. [cited 12-04-2024].
Available from: <https://www.marlin.ac.uk/habitats/detail/377>
3. Tillin, H.M., Marshall, C.E., Gibb, N., Lloyd, K.A., & Watson, A. (2023c). *Sabellaria spinulosa* encrusted circalittoral rock. In Tyler-Walters H. (ed) *Marine Life Information Network: Biology and Sensitivity Key Information Reviews*, [on-line]. Plymouth: Marine Biological Association of the United Kingdom. [cited 25-04-2024].
Available from: <https://www.marlin.ac.uk/habitats/detail/1169>