28. Offshore circalittoral mud

Sensitivity Assessment

Sensitivity scores for characterising ecological groups sensu Tillin & Tyler-Walters (2013) were obtained from Tillin & Tyler-Walters (2014). See case report (Appendix 10) for details of ecological groups that characterise this feature. The resistance, resilience and sensitivity scores for each pressure comprise those scores for the ecological group(s) most sensitive to that pressure. For pressures not assessed in Tillin & Tyler-Walters (2014), scores for characterising species of each ecological group were obtained from the MarLIN website (www.marlin.ac.uk) where available. The overall scores for these pressures again comprised the scores of the most sensitive organism(s) to each pressure.

Table A11.28. Sensitivity assessment for offshore circalittoral mud. 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. *Overall confidence score of the MarLIN sensitivity analyses for characterising species which followed the MarLIN sensitivity assessment approach which was used prior to the MarESA approach.

Pressures		Associated					Resilier	nce			Sensitiv	vity		Group or species		
Classification	Pressure type	sector(s)	Score	QoE	AoE	DoC	Score	QoE	AoE	DoC	Score	QoE	AoE	DoC	associated	Refs
,	Physical loss (to land or freshwater habitat)		N	Н	Н	Н	VL	Н	н	н	Н	Н	Н	Н	1(a), 1(c), 3, 4, 5, 6, 8(c)	4

Pressures		Associated	Resista	nce			Resilier	nce			Sensitiv	vity		Group or species		
Classification	Pressure type	sector(s)	Score	QoE	AoE	DoC	Score	QoE	AoE	DoC	Score	QoE	AoE	DoC	associated with score	Refs
	Physical change (to another seabed type)	O, F	N	М	L	М	L	М	L	М	Н	М	L	М	1(a)	4
	Physical change (to another sediment type)	O, F	N	М	L	М	L	М	L	М	Н	М	L	М	1(a)	4
	Habitat structure change-removal of substratum (extraction)	О	N	М	L	М	L	М	L	М	Н	М	L	М	1(a)	4
Physical	Abrasion/disturbance of substratum surface or seabed	O, F	L	Н	Н	L	L	М	L	М	Н	М	L	L	1(a)	4

Pressures	Pressures		Resista	nce			Resilier	nce	_		Sensitiv	vity		Group or species		
Classification	Pressure type	sector(s)	Score	QoE	AoE	DoC	Score	QoE	AoE	DoC	Score	QoE	AoE	DoC	associated	Refs
	Penetration or disturbance of substratum subsurface	O, F	L	Н	Н	L	L	М	L	М	Н	М	L	L	1(a)	4
	Changes in suspended solids (water clarity)	O, F	М	Н	М	М	М	М	М	М	М	М	М	М	4	4
	Smothering and siltation changes (light)	0	M				н				L	*H			Asterias rubens, Amphiura filiformis	2, 3
	Smothering and siltation changes (heavy)	0	N	Н	Н	Н	М	L	NR	NR	М	L	L	L	1(c), 4, 5, 8(c)	4
	Underwater noise	O, F, S	NEv	NR	NR	NR	NEv	NR	NR	NR	NEv	NR	NR	NR		4

Pressures	Pressures		Resista	nce			Resilie	nce			Sensitiv	vity			Group or species	
Classification	Pressure type	sector(s)	Score	QoE	AoE	DoC	Score	QoE	AoE	DoC	Score	QoE	AoE	DoC	associated with score	Refs
	Electromagnetic energy	О	NEv	NR	NR	NR	NEv	NR	NR	NR	NEv	NR	NR	NR		
	Barrier to species movement	O, F	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR		
	Death or injury by collision	O, F, S	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR		
Hydrological	Water flow changes	0	N	М	L	М	L	М	L	М	Н	М	L	М	1(a)	4
Chemical	Transition elements & organo-metal contamination	O, F, S	L				Н				L	*H			Abra alba, Asterias rubens	1, 2

Pressures	Pressures		Resista	nce			Resilie	nce			Sensiti	vity			Group or species	
Classification	Pressure type	sector(s)	Score	QoE	AoE	DoC	Score	QoE	AoE	DoC	Score	QoE	AoE	DoC	associated with score	Refs
	Hydrocarbon & PAH contamination	O, F, S	N				Н				М	*H			Asterias rubens, Amphiura filiformis	2, 3
	Synthetic compound contamination	O, F, S	L				Н				L	*M			Amphiura filiformis	1, 3
	Introduction of other substances	O, F, S	NA	NR	NR	NR	NA	NR	NR	NR	NA	NR	NR	NR		
	Deoxygenation	0	N				Н				М	*H			Asterias rubens	2
Biological	Introduction or spread of invasive non-indigenous species	O, F, S	NEv	NR	NR	NR	NEv	NR	NR	NR	NEv	NR	NR	NR		

Pressures		Associated	Resista	nce			Resilier	nce			Sensitiv	ity			Group or species	
Classification	Pressure type	sector(s)	Score	QoE	AoE	DoC	Score	QoE	AoE	DoC	Score	QoE	AoE	DoC	associated	Refs
	Removal of target species	F	Н	М	L	NR	Н	Н	Н	Н	NS	М	L	NR	All	4
	Removal of non-target species	F	Н	М	L	NR	Н	Н	Н	Н	NS	М	L	L	All	4

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Reference for ecological groups

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