11. Fan mussel (*Atrina fragilis*)

Sensitivity Assessment

This sensitivity assessment was sourced directly from Tyler-Walters, H., & Wilding, C.M. 2022. *Atrina fragilis* Fan mussel. In Tyler-Walters H. and Hiscock K. (eds) Marine Life Information Network: Biology and Sensitivity Key Information Reviews, [on-line]. Plymouth: Marine Biological Association of the United Kingdom. [cited 26-03-2024]. Available from: https://www.marlin.ac.uk/species/detail/1157

Table A11.11. Sensitivity assessment for Fan Mussel *(Atrina fragilis*). 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.

Pressures		**Associated sector(s)**	**Resistance**				**Resilience**				**Sensitivity**			
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
	Physical change (to another seabed type)	O, F	N	H	H	H	VL	H	H	H	H	H	H	H
	Physical change (to another sediment type)	O, F	H	L	NR	NR	H	H	H	H	NS	L	L	L

Pressures		Associated sector(s)	Resistance				Resilience				Sensitivity			
Classification	**Pressure type**		**Score**	**QoE**	**AoE**	**DoC**	**Score**	**QoE**	**AoE**	**DoC**	**Score**	**QoE**	**AoE**	**DoC**
	Habitat structure change-removal of substratum (extraction)	O	N	L	NR	NR	VL	M	M	M	H	L	L	L
	Abrasion/disturbance of substratum surface or seabed	O, F	L	H	M	M	L	M	M	M	H	M	M	M
	Penetration or disturbance of substratum subsurface	O, F	N	H	M	M	VL	M	M	M	H	M	M	M
Physical	Changes in suspended solids (water clarity)	O, F	M	H	M	M	L	M	M	M	M	M	M	M
	Smothering and siltation changes (light)	O	M	L	NR	NR	L	M	M	M	M	L	L	L

Pressures		Associated sector(s)	Resistance				Resilience				Sensitivity			
Classification	**Pressure type**		**Score**	**QoE**	**AoE**	**DoC**	**Score**	**QoE**	**AoE**	**DoC**	**Score**	**QoE**	**AoE**	**DoC**
	Smothering and siltation changes (heavy)	O	N	L	NR	NR	VL	M	M	M	H	L	L	L
	Underwater noise	O, F, S	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
	Electromagnetic energy	O	NEv	NR	NR	NR	NR	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	O	H	L	NR	NR	H	H	H	H	NS	L	L	L
Chemical	Transition elements & organo-metal contamination	O, F, S	NEv	NR	NR	NR	NR	NR	NR	NR	NEv	NR	NR	NR

Pressures		Associated sector(s)	Resistance				Resilience				Sensitivity			
Classification	**Pressure type**		**Score**	**QoE**	**AoE**	**DoC**	**Score**	**QoE**	**AoE**	**DoC**	**Score**	**QoE**	**AoE**	**DoC**
	Hydrocarbon & PAH contamination	O, F, S	NEv	NR	NR	NR	NR	NR	NR	NR	NEv	NR	NR	NR
	Synthetic compound contamination	O, F, S	NEv	NR	NR	NR	NR	NR	NR	NR	NEv	NR	NR	NR
	Introduction of other substances	O, F, S	NEv	NR	NR	NR	NR	NR	NR	NR	NEv	NR	NR	NR
	Deoxygenation	O	L	M	M	M	L	M	M	M	H	M	M	M
Biological	Introduction or spread of invasive non-indigenous species	O, F, S	NEv	NR	NR	NR	NR	NR	NR	NR	NEv	NR	NR	NR
	Removal of target species	F	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
	Removal of non-target species	F	N	H	M	M	VL	M	M	M	H	M	M	M