

12. Ocean quahog (*Arctica islandica*)

Sensitivity Assessment

This sensitivity assessment was sourced directly from Tyler-Walters, H. & Sabatini, M. 2017. *Arctica islandica* Icelandic cyprine. In Tyler-Walters H. and Hiscock K.(ed) *Marine Life Information Network: Biology and Sensitivity Key Information Reviews*, [on-line]. Plymouth: Marine Biological Association of the United Kingdom. [cited 20-04-2023]. Available from: <https://www.marlin.ac.uk/species/detail/1519>

Table A11.12. Sensitivity assessment for Icelandic cyprine (Ocean quahog) *Arctica islandica*. 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	L	L	NR	NR	VL	H	H	H	H	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	H	H	H	VL	H	H	H	H	H	H	H
	Abrasion/disturbance of substratum surface or seabed	O, F	L	H	H	M	VL	H	M	M	H	H	M	M
	Penetration or disturbance of substratum subsurface	O, F	L	H	H	M	VL	H	M	M	H	H	M	M
Physical	Changes in suspended solids (water clarity)	O, F	H	L	NR	NR	H	H	H	H	NS	L	L	L
	Smothering and siltation changes (light)	O	H	H	H	M	H	H	H	H	NS	H	H	M

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	H	H	H	M	H	H	H	H	NS	H	H	M
	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	NR	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	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
	Hydrocarbon & PAH contamination	O, F, S	NA	NR	NR	NR	NA	NR	NR	NR	NA	NR	NR	NR
	Synthetic compound contamination	O, F, S	NA	NR	NR	NR	NA	NR	NR	NR	NA	NR	NR	NR
	Introduction of other substances	O, F, S	NA	NR	NR	NR	NA	NR	NR	NR	NA	NR	NR	NR
	Deoxygenation	O	H	H	H	H	H	H	H	H	NS	H	H	H
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	L	H	H	L	VL	H	M	M	H	H	M	L
	Removal of non-target species	F	L	H	M	M	VL	H	M	M	H	H	M	M

