## **Supplementary Material 3**

List of seamount attributes and units of measured used to describe individual seamount geologic, ecologic and oceanographic characteristics.

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	At	tributes	Units of measure/Categories
	1.	Age	Million years
Geology	2.	Basin depth	Meters below sea surface
	3.	Depth of peak	Meters below sea surface
	4.	Elongation	Length / width ratio
	5.	Height of peak	Meters from base of seamount to top of summit
	6.	Hydrothermally active	1/0 (yes/no)
	7.	Irregularity	SBN classification (http://earthref.org/SBN/)
	8.	Mineral deposits	1/0 (yes/no)
	9.	Proximity to neighbor sm.	Km
	10.	Proximity to shelf	Km
	11.	Slope of seamount	Degrees, average value
		Substrate type	1: Rocky, 1.25: Mostly rocky, 1.5: Mixed, 1.75: Mostly soft,
			2: Soft
	13.	Summit shape	1: Conical, 2: Guyot, 3: Caldeira, 4: Irregular, 5: Other (0.5: w.
		1	pinnacles)
	14.	Volume	$km^3$
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Ĭ	15.	Taylor cap or other	1/0 / / )
Oceano.		retention mechanisms	1/0 (yes/no)
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	16.	Aggregating deep sea fish	If compared with habitats similar to seamounts - increased,
			decreased, no significant difference; if not - presence, absence
		Air-breathing visitors	As in 16
	18.	Cephalopods	As in 16
	19.	Chemosynthetic	1/0 (yes/no)
		community	
	20.	Corals	As in 16
	21.	Demersal fish	As in 16
	22.	Demersal invertebrates	As in 16
	23.	Endemism	1: No global value of endemism, but single or few taxa
Ecology			described as endemic, 2: Low=<20%, 3: Medium=[20-40%], 4:
6			High=>40%
E S	24.	Macrophytes present	As in 16
	25.	Nutrient upwelling occurs	1/0 (yes/no)
	26.	Organic matter	Increased, decreased, no significant difference
	27.	Other visiting pelagics	If compared with open ocean or other habitats - increased,
			decreased, no significant difference; if not - Presence/absence
	28.	Phytoplankton production	Increased, decreased, no significant difference
		Sponge meadows	As in 16
		Topographic blockage	1/0 (yes/no)
		Visiting large pelagics	As in 27
		Zooplankton	Increased, decreased, no significant difference
		production/abundances	-
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