Supplementary Material 3

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

	Attributes	Units of measure/Categories
Geology	1. Age	Million years
	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
	12. 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. pinnacles)
	14. Volume	km^3
Oceano.	15. Taylor cap or other retention mechanisms	1/0 (yes/no)
Ecology	16. Aggregating deep sea fish	If compared with habitats similar to seamounts - increased, decreased, no significant difference; if not - presence, absence
	17. Air-breathing visitors	As in *16*
	18. Cephalopods	As in *16*
	19. Chemosynthetic community	1/0 (yes/no)
	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 described as endemic, 2: Low=<20%, 3: Medium=[20-40%], 4: High=>40%
	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
	29. Sponge meadows	As in *16*
	30. Topographic blockage	1/0 (yes/no)
	31. Visiting large pelagics	As in *27*
	32. Zooplankton production/abundances	Increased, decreased, no significant difference