Level Theme Terrestrial Freshwater Neritic Nearshore Oceanic Domain Elevation > 0 Bathymetry 0 – 30m Bathymetry 30 – 200m Bathymetry > 200m 1 Elevation > 0 separator Global coastal/shelf climate Global coastal/shelf climate Global pelagic climate 2a Macro-bioclimate Global climate Global climate regions regions (partitioning of Polar, regions (partitioning of regions (partitioning of regions (partitioning of Polar, Polar, Temperate, Tropical) Polar, Temperate, Tropical) Temperate, Tropical) (partitioning of Boreal, Temperate, Polar. Boreal. Mediterranean, Tropical) Temperate, Mediterranean, Tropical) 2b Macro-Global terrestrial Global terrestrial Global marine Global marine Global marine biogeographic biogeographic realms (12) biogeographic biogeographic biogeographic realms (8: biogeographic realms (12) realms (9) for pelagic realms (8: Neotropical, Nearctic, for coastal/shelf regions: for coastal/shelf regions: region regions: Neotropical, Palearctic, Afrotropical, (Arctic, Northern Atlantic, (Arctic, Northern Atlantic, (Antarctic Polar, Antarctic Northern Pacific, Tropical Northern Pacific, Tropical Nearctic, Indomalayan, Australasian Westerly Winds, Atlantic Oceania, Antarctica) Palearctic. Atlantic, Western Atlantic, Western Polar, Atlantic Trade Winds, Afrotropical, Indopacific, Central Indopacific, Central Atlantic Westerly Winds, Indopacific, Tropical Pacific Indopacific, Tropical Pacific Indian Ocean Trade Winds, Indomalayan, Plate, Tropical Eastern Plate, Tropical Eastern Pacific Polar. Pacific Trade Australasian. Pacific, Temperate South Oceania, Pacific, Temperate South Winds, Pacific Westerly America, Temperate South Winds) Antarctica) America, Temperate South Africa, Temperate Africa. Temperate Australasia, Southern Australasia, Southern Ocean) Ocean) Regional land/sea climate Regional land Regional land climate Regional marine climate Regional marine climate 3a Meso-bioclimate climate regions regions determined by regions determined by regions defined by sea regions defined by sea determined by climate data (biomes or climate data (biomes or surface temperature, sea surface temperature, sea climate data plant functional types) plant functional types) surface elevation, mixed surface elevation. mixed (biomes or plant Longhurst? LMEs?) layer depth, salinity layer depth, salinity (Longhurst? LMEs?) (?) functional types) WWF/TNC Freshwater WWF/TNC Marine WWF Marine Ecoregions (or 3b Meso-WWF/TNC WWF Marine Ecoregions biogeographic Terrestrial Ecoregions (or Ecoregions (or (or biogeographic biogeographic derivatives Ecoregions (or zoogeographic (e.g. biogeographic derivatives derivatives (e.g. Longhurst) (e.g. Longhurst) thereof) region Maxwell) derivatives (e.g. Longhurst) thereof) thereof) phytogeographic (e.g Takhtajan) thereof) derivatives thereof) Geomorphology/ Surface Water Geoforms, Hydroforms Geoforms, Hydroforms Geoforms, Hydroforms 4 Primary micro-Geochemistry Characteristics from: scale (e.g. hydrochemical e.g. hydrochemistry of water environmental from: Nested size catchments (e.g. hydrochemical determinant landforms, and (headwater, medium, phenomena, seafloor phenomena, seafloor column) specialized large, interacting rivers and landforms and substrate landforms and substrate

Appendix 1 – Working Draft Global Ecosystems Classification Framework

		substrates	lakes,) elevation gradient (and catchment morphology), connectivity (rivers, lakes, wetlands, glaciers)	types)	types)	
5	scale	from: topographic index of plant- available soil moisture, substrate porosity, and	Energy/Productivity Input (external or internal); Flow characteristics from: chemistry, porosity, temperature (e.g. ground water/surface water, stable, flashy, alkaline, neutral, acidic, black/white, temperature		Salinity, Temperature	Salinity, Temperature
6	Biotic structure	Total biomass, vegetation structure/ land cover, landscape juxtaposition Gradient from secondary vegetation to primary vegetation/undist urbed land cover		Coastal macrohabitats	Continental shelf macrohabitats	Biomass estimate by water column layer
7	Biotic composition	Species composition, dominance and co-dominance	Genera and species composition	Genera and species composition	Genera and species composition	Plankton communities, Genera and species composition