

Intersecting Ecosystem Services Across the Aquatic Continuum: From Global Change Impacts to Local, and Biologically Driven, Synergies and Trade-Offs

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Supplementary Table 2. The 15 most relevant bigrams (based on IDF) in different aquatic ecosystems and in the open (“sea” and “ocean”) and inland (“river” and “lake”) waters. Acronyms are as follow: ESG = “Ecosystem Services Group”; RM = “Regulation and Maintenance”; P = “Provisioning”; C = “Cultural”. IDF = “Inverse Document Frequency”.

SEA	ESG	IDF	OCEAN	ESG	IDF
sea_level	RM	1.32	marin_ecosystem	RM	1.60
climat_chang	RM	1.53	climat_chang	RM	1.64
level_rise	RM	1.54	ocean_acidif	RM	2.07
marin_ecosystem	RM	2.21	servic_provid	P	2.26
servic_provid	P	2.23	ocean_ecosystem	RM	2.34
coastal_ecosystem	RM	2.42	marin_protect	RM	2.36
ecosystem_function	RM	2.54	base_manag	RM	2.36
human_activ	C	2.59	coral_reef	RM	2.42
coral_reef	RM	2.62	sustain_develop	C	2.48
marin_environ	RM	2.72	ecosystem_function	RM	2.52
salt_marsh	RM	2.72	coastal_ecosystem	RM	2.59
coastal_zone	RM	2.78	indian_ocean	RM	2.62
baltic_sea	RM	2.79	fisheri_manag	RM	2.62
coastal_protect	RM	2.88	biodivers_ecosystem	RM	2.62
coastal_wetland	RM	2.93	socio_econom	C	2.66
RIVER	ESG	IDF	LAKE	ESG	IDF
river_basin	RM	1.38	water_qualiti	RM	1.70
water_qualiti	RM	2.02	climat_chang	RM	2.04
climat_chang	RM	2.13	servic_provid	P	2.05
land_cover	RM	2.20	lake_ecosystem	RM	2.55
water_resourc	P	2.21	land_cover	RM	2.57
servic_provid	P	2.53	lake_basin	RM	2.62
ecosystem_function	RM	2.70	lake_water	RM	2.69
human_activity	C	2.80	aquat_ecosystem	RM	2.71
river_delta	RM	2.91	human_activ	C	2.73
land_chang	RM	2.91	water_bodi	RM	2.84
water_suppli	P	2.93	invas_speci	RM	2.96
resourc_manag	RM	2.95	provid_ecosystem	P	2.96
river_watersh	RM	2.98	surface_water	RM	2.99
river_ecosystem	RM	3.00	lake_region	RM	2.99
water_manag	RM	3.03	water_level	RM	3.02
OPEN WATERS	ESG	IDF	INLAND WATERS	ESG	IDF
climat_chang	RM	1.44	river_basin	RM	1.69
sea_level	RM	1.61	water_qualiti	RM	1.92
level_rise	RM	1.85	climat_chang	RM	2.03
marin_ecosystem	RM	1.97	land_cover	RM	2.33
servic_provid	P	2.25	water_resourc	P	2.40
coastal_ecosystem	RM	2.52	servic_provid	P	2.42
ecosystem_function	RM	2.52	human_activ	C	2.75
human_activ	C	2.54	ecosystem_function	RM	2.76
coral_reef	RM	2.59	resourc_manag	RM	3.00
marin_environ	RM	2.76	land_chang	RM	3.02
biodivers_ecosystem	RM	2.85	water_suppli	P	3.07
coastal_zone	RM	2.89	provid_ecosystem	P	3.09
ocean_acidif	RM	2.95	natur_resourc	P	3.12
marin_protect	RM	2.96	water_manag	RM	3.13
socio_econom	C	2.98	river_delta	RM	3.15