

Supplementary Material

1.1 Supplementary Table

Supplementary Table 1. Papers published between January 2015 and November 2019 that met our spatial planning criteria (examined site selection for restoration and/or applied spatial planning principles to ecosystem restoration for seagrass, mangrove, or salt marsh ecosystems) and how each paper was coded for whether it was focused on informing real restoration decisions; the motivation(s) for site selection; whether the study examined site selection or spatial scale; the methodological approach(es) used; the site selection parameters employed; and the spatial scale of the study. See main paper for additional explanation of these categories and see section 1.2 for references.

			Motivation					Methodological approach						Site selection parameters						
	Citation	Informs real decisions ? (vs. theoretical/ hypothetical)	Improve restoration success	Enhance ecosystem services	Minimize restoration costs	Minimize conflict w/ human use	Focus on site selection? (vs. spatial scale)	Experimental	Habitat Suitability Models	Mapping / Spatial Analysis	Spatial prioritization	Social surveys	Other models	Environmental factors	Current/historical habitat presence	Proximity to habitat	Stressors	Ecosystem services	Human use	Scale
Seagrass	(Moksnes et al. 2018)	YES	YES				YES	YES						YES	YES					Regional
	(Zhou et al. 2016)	YES	YES				YES		YES	YES				YES						Local
	(Hotaling-Hagan et al. 2017)	YES	YES			YES	YES		YES	YES				YES	YES				YES	Regional
	(Pirrotta et al. 2015)	YES	YES				YES	YES	YES	YES				YES	YES	YES				Regional
	(Thom et al. 2018)	YES	YES				YES	YES	YES	YES		YES		YES	YES		YES			Ecosystem
	(Valle et al. 2015)		YES				YES	YES	YES					YES						Regional
	(Adams et al. 2018)		YES										YES	YES						NA
Salt marsh	(Heuner et al. 2016)	YES	YES				YES		YES					YES						Regional
	(Hu et al. 2015)	YES	YES		YES		YES	YES					YES	YES						Regional
	(Gittman et al. 2018)		YES		YES			YES						YES						Local
Mangrove	(Rakotomahazo et al. 2019)	YES		YES		YES	YES			YES		YES			YES		YES		YES	Regional
	(Petrosian et al. 2016)	YES	YES		YES		YES		YES	YES				YES						Ecosystem
	(Adame et al. 2015)			YES	YES		YES			YES	YES				YES			YES	YES	Regional

1.2 Supplementary Reference Lists

The following references were returned from our literature searches (see main paper for search protocol). We reviewed all papers to determine if they met our spatial planning criteria.

****** Paper that met our spatial planning criteria, i.e., they examined site selection for restoration and/or applied spatial planning principles to ecosystem restoration for seagrass, mangrove, or salt marsh ecosystems (papers also listed in Table S1).

***** Paper that did not meet our spatial planning criteria because it was not directly about site selection or spatial planning for restoration, but that included results that could have implications for spatial planning for restoration.

SEAGRASS REFERENCES

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