

Ambio

Supplementary Information

This Supplementary Information has not been peer reviewed.

Title: **Meadows, Memories, and Missing Layers: Transdisciplinary Seagrass Mapping Towards Restorative Marine Spatial Planning**

Table S1: Full list of activities, maps in which mentioned, and areas identified.

Activity type	Activity	Maps mentioned (<i>n</i> = 11)	Areas identified
Consumptive (15)	Gathering spoots	10	22
	Fishing (sharks, 'cuithes' - coalfish, mackerel, herring, haddock, cod)	10	11
	Creeling (lobster pots)	9	6
	Tangling	8	25
	Beachcombing (driftwood, shells, 'groatie buckies' - cowries, whale bones)	8	16
	Cockling	7	3
	Gathering seaweed	5	2
	Gathering scallops	4	6
	Mining shell sand	4	3
	Gathering whelks	2	1
	Gathering mussels	2	0
	Gathering gull eggs	2	0
	Crabbing	2	1
	Goose egg oiling	1	1
	Salthouses	1	0
Non-consumptive (24)	Swimming/paddling	9	15
	Archaeology (terrestrial, shipwrecks)	9	23
	Watersports (kayaking, canoeing kitesurfing, sailing, paddle boarding)	6	23
	Wildlife watching (Seals, otters, birds, whales)	6	19
	Walking	6	16
	Outdoor learning	4	5
	Local events ('Soulka' - local festival, Royal National Lifeboat Institution fundraiser, agricultural show)	3	2
	Litter picking ('Bag the Bruck' - community litter picks)	3	1
	Art (photography, painting, drawing, transient art)	3	0
	Picnics (and sausage sizzles)	3	6
	Playing on the beach (sandcastles, skimming stones)	3	0
	Conservation science (Bird ringing, cetacean surveys/refloating/biopsy)	2	0
	Snorkelling	2	1
	Cycling	2	0

Activity type	Activity	Maps mentioned (<i>n</i> = 11)	Areas identified
	Horse riding	1	1
	Transport to other islands	1	1
	Navigation	1	0
	Chi-kung	1	1
	Driving on the beach	1	0
	Sand-kiting	1	1
	Botanising	1	0
	Seawatching	1	0
	Sunsets	1	0
	Playing recorder to the seals	1	0



Figure S1: Seagrass at Backaskail Bay, Sanday. Oil and acrylic on canvas by Bill McArthur, a former fisher based in Sanday.

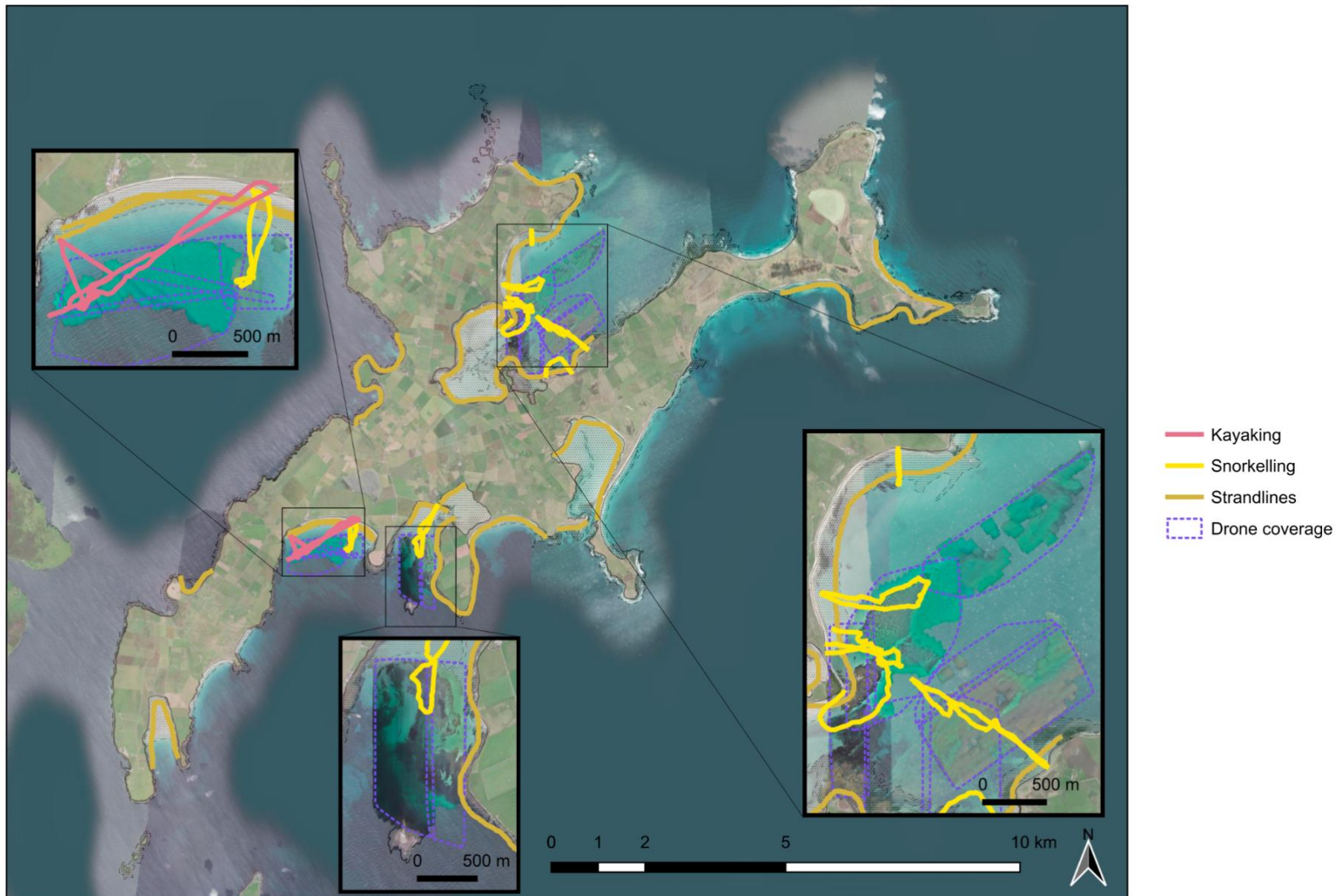


Figure S2: Survey effort through kayaking, swimming, strandline, and drone surveys, mapped over 1.2 m resolution satellite imagery (Source: Esri, World_Imagery) overlaid with stitched drone imagery.