Beach Wrack Instructions & Metadata

Some rules for data entry

1. Please use the same **Site** & **Strata** names you have in previous uploads
2. Please use the same **Latitude/Longitude** if you've sampled the site-strata before
3. If >1 of the same strata type in a site, describe in **Notes**: *e.g.* "armored-north"
4. Please leave cell blank if measurement was missed (*do not put a "0"*)

1. The 1st 9 columns describe WHERE (site characteristics) & WHEN (time, date) you sampled:

	Site	Latitude	Longitude	Strata	Elevation	High_tide	Date	Time	Replicate
format	*text*	*number: decimal degrees*		*text*: e.g., **natural**, **armored**, **pre-restoration**, **post-restoration**	*text*: **new**, **old**	*number: feet*	*mm/dd/yyyy*	*hh:mm*	*number: integer*
description	use the same site name for multiple strata in the same place	use the same coordinates used previously if resampling the same strata at the same site		**natural:** never been armored & used as reference; **armored:** armored shoreline with no plans for removal; **pre-restoration:** armored shoreline with plans for restoration; **post-restoration:** restored treatment (e.g. armor removed); or other designation	name of transect elevation – **new:** most recent high tide line with fresh wrack **old:** just above MHHW in older wrack	wrack line elevation (feet) relative to MLLW – most recent high tide from tide tables *or* measured directly	sample date in number format	sample start time in 24-hr	use consecutive numbers (preferred); *or* distance on transect
required?	required			recommended			required	recommended	required

2. The next 7 columns are the main wrack summary measurements taken:

	Total_cover	Algae	Eelgrass	Terrestrial	Human_debris	Wrack_depth	Wrack_width
format	*number: percent*	*number: percent*				*number: centimeters*	*number: meters*
description	total wrack coverage in quadrat; enter 0.1 for trace	coverage of each wrack type in quadrat; enter 0.1 for trace				wrack depth at deepest point; enter 0.5 for trace	width from low to high wrack line; enter 0.05 for trace
required?	recommended						

3. The last 13 columns are the presence/absence & coverage measurements of different algae types:

	Bull_kelp _present	Bull_kelp _coverage	Fucus _present	Fucus _coverage	Ulva _present	Ulva _coverage	Other_red _algae _present	Other_red _algae _coverage	Other_green _algae _present	Other_green _algae _coverage	Other_brown _algae _present	Other_brown _algae _coverage	notes
format	*text: true /false*	*number: percent*	*text: true /false*	*number: percent*	*text: true /false*	*number: percent*	*text: true /false*	*number: percent*	*text: true /false*	*number: percent*	*text: true /false*	*number: percent*	*text*
description	*autofills true if >0*	*cover if measured*	*autofills true if >0*	*cover if measured*	*autofills true if >0*	*cover if measured*	*autofills true if >0*	*cover if measured*	*autofills true if >0*	*cover if measured*	*autofills true if >0*	*cover if measured*	*notes on data*
required?	optional												