Supplementary data file

Table A1. Table A1. Site-specific average rainfall data (obtained from the Meteorological Department, Puttalam station) and data on physico-chemical parameters of the soil in Maampuriya, which were measured in both dry and rainy seasons. The standard deviation (±) is given for each parameter.

Parameter	Dry season			Rainy season		
Average Rainfall (mm)	254.1±72.0			1167.9±280.0		
Average salinity (psu) (n=65)	21.2±2.1			4.0±1.5		
Soil particle size distribution (%) (per 100g) (n=12)	Sand	Silt	Clay	Sand	Silt	Clay
	46.5	21	32.5	48.4	24	27.6
pH (n=72)	6.7 ±0.2			6.3±0.1		
Redox potential at 30 cm (mV) (n=42)	-50±14			-68±12		
Soil Bulk Density (g/cm³) (n=12)	1.35±0.05			1.22±0.08		
*Total carbon content (TCC) (%) (n=12)	Surface	Sub-surface (30cm)		Surface	Sub-surface (30cm)	
	7.66±0.88	5.11±0.48		9.20±1.6	5.72±0.71	
*Total Nitrogen Content (TNC) (%) (n=12)	Surface	Sub-surface (30cm)		Surface	Sub-surface (30cm)	
	0.367±0.16	0.404±0.12		0.418±0.19	0.412±0.11	
*Total Phosphorus Content (TPC) (ppm) (n=12)	Surface	Sub-surface (30cm)		Surface	Sub-surface (30cm)	
	2.65±0.38	3.14±0.81		3.86±0.97	3.97±0.61	

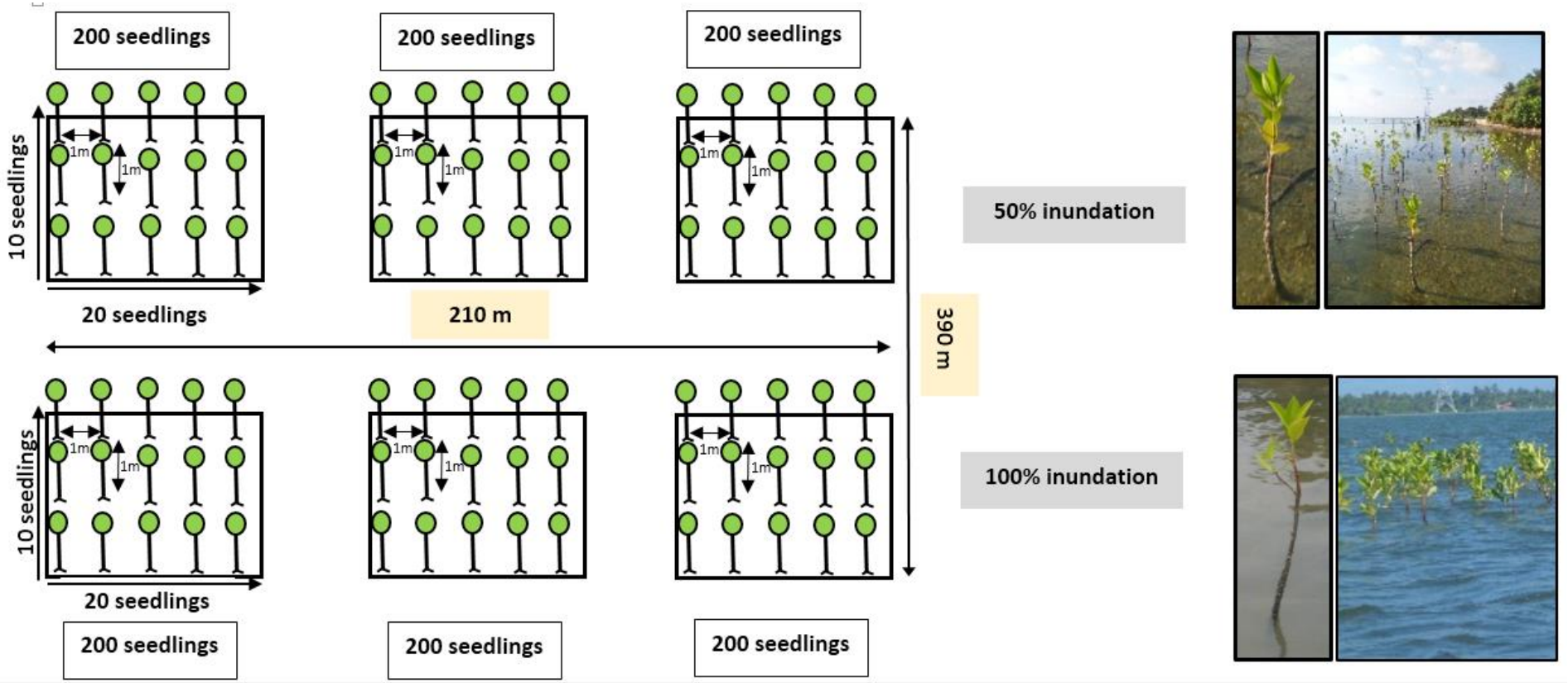

Fig. A1. Illustration showing the distribution of field plots in the Maampuriya area, Puttalam lagoon. Three alternative plots were made for each treatment [100% inundation (treatment) and 50% inundation (control)] and each plot had 200 seedlings (20 seedlings per row and 10 rows in total per plot). On the right side, two images are given, showing field conditions in plots with 100% and 50% inundations levels.