Table 1. Vegetation and wave parameters for each experimental scenario.

Case[a]	Vegetation type	m[b] (m^{-2})	d[c] (cm)	h_v[d] (m)	h[e] (m)	a_w[f] (cm)	T[g] (s)	λ[h] (m)	k[i] (m^{-1})	u_{wmax}[j] (cm/s)	E_w[k] (cm)	KC[l]	E_w/S[m]	Re_d[n]
S0	-	-		-	2.20	1.75	2.0	6.1	1.03	4.0	1.27	-	-	-
A1	*A. selengensis*	480	0.5	0.90	0.65	0.45	1.1	1.8	3.41	1.5	0.26	3.3	0.06	90.3
A2	*A. selengensis*	420	0.5	1.00	0.90	0.42	1.6	3.6	1.72	2.5	0.64	8.0	0.13	47.5
A3	*P. arundinacea*	120	0.5	0.65	1.15	0.46	1.4	3.0	2.09	2.0	0.45	5.6	0.05	15.6
A4	*C. cinerascens*	1260	0.3	0.20	0.80	1.88	1.1	1.9	3.36	2.3	0.40	8.4	0.12	3.7
A5	*P. arundinacea*	520	0.5	1.00	1.80	3.66	1.1	1.9	3.33	1.0	0.18	2.2	0.04	14.2
B1	*P. arundinacea*	240	0.5	1.30	0.67	0.76	2.0	4.5	1.38	6.0	1.91	24.0	0.30	22.7
B2	*P. arundinacea*	280	0.5	0.60	1.66	1.41	1.7	4.4	1.42	2.0	0.54	6.8	0.08	26.8
B3	*P. arundinacea*	280	0.5	0.60	0.60	0.35	1.0	1.5	4.09	1.8	0.29	3.6	0.05	50.2
B4	*P. arundinacea*	320	0.5	0.90	0.90	1.06	1.0	1.6	4.03	5.5	0.88	11.0	0.16	41.3
B5	*P. arundinacea*	300	0.5	0.70	1.00	0.40	1.0	1.6	4.03	1.3	0.21	2.6	0.03	33.1

[a]S0 was the bare bed case. A1 ~ A5 and B1 ~ B5 were cases with the influence of AV and located in sites A and B (Fig. 1b), respectively.

[b]Stem density (stems per unit area). Please note that several stems are grown for each individual plant of *A. selengensis* and *P. arundinacea*. *C. cinerascens* was composed of basal blades, so that its stem density in present study referred to the numbers of blade per unit area.

[c]Stem diameter. For *C. cinerascens* this table gave the value of mean blade width.

[d, e]Height of vegetation (h_v) and water depth (h).

[f]Wave amplitude calculated by fitting eq. (6) to measured horizontal wave velocity (U_{w_horiz}) at the highest three measurement points.

[g]Wave period calculated as $T = 1/f_p$ with f_p the peak frequency of the wave domain in the power spectral density of instantaneous vertical velocity.

[h, i]Wave length ($\lambda = 2\pi/k$) and wave number (k) estimated by linear wave theory, i.e., $\omega^2 = (kg)\tanh(kh)$, with ω ($= 2\pi/T$) the wave radian frequency, g the gravitational acceleration, and h the water depth.

[j]Maximum velocity in wave cycle.

[k]Wave excursion (radius of wave orbital motion) estimated by $E_w = u_{wmax}T/(2\pi)$.

[l]*Keulegan-Carpenter* number estimated as $KC = u_{wmax}T/d$.

[m]Ratio of wave excursion (E_w) to stem spacing (S) with $S = m^{-1/2}$.

[n]Stem Reynolds number estimated by $Re_d = U_{horiz}d/\nu$ (with $\nu = 10^{-6}$ the water kinematic viscosity) within the vegetation.