SUPPLEMENTARY INFORMATION

Table S1. Elevation data (mean ± standard error) for each of five replicate plots in each vegetation assemblage. The number of tides exceeding each mean plot elevation at a nearby tidal gauge are provided as an indicator of likely inundation patterns for the four deployment periods

Vegetation assemblage	Plot #	Elevation (mean ± SE) cm above LAT	December neap	December spring	January neap	January spring
			Number of tides exceeding mean plot elevation			
Sarcocornia	1	151.20 ± 0.58	3	7	1	6
	2	155.20 ± 0.57	1	7	0	6
	3	151.40 ± 1.22	3	7	1	6
	4	148.30 ± 0.59	3	8	2	10
	5	178.37 ± 0.33	0	6	0	5
Sporobolus	1	155.17 ± 0.91	1	7	0	6
	2	156.63 ± 0.35	1	7	0	6
	3	156.90 ± 0.50	1	7	0	6
	4	158.27 ± 1.29	1	6	0	6
	5	162.80 ± 0.44	1	6	0	6
Juncus	1	181.33 ± 0.45	0	6	0	5
	2	185.70 ± 0.17	0	6	0	5
	3	187.10 ± 0.29	0	6	0	5
	4	179.70 ± 0.45	0	6	0	5
	5	183.37 ± 0.44	0	6	0	5

Table S2. Elemental composition and C:N ratio for organic component of unidentified residues collected on filter papers.

Community	Tide	%C	%N	C:N
Sarcocornia	December neap	4.18	0.31	13.59
	December spring	3.37	0.25	13.69
	January neap	3.07	0.21	14.72
	January spring	3.56	0.24	14.65
Sporobolus	December neap	4.50	0.31	14.72
	December spring	6.56	0.37	17.81
	January neap	3.88	0.24	16.26
	January spring	4.04	0.27	14.80
Juncus	December neap	16.66	0.85	19.57
	December spring	14.36	0.81	17.62
	January neap	16.81	0.85	19.70
	January spring	9.05	0.48	18.72

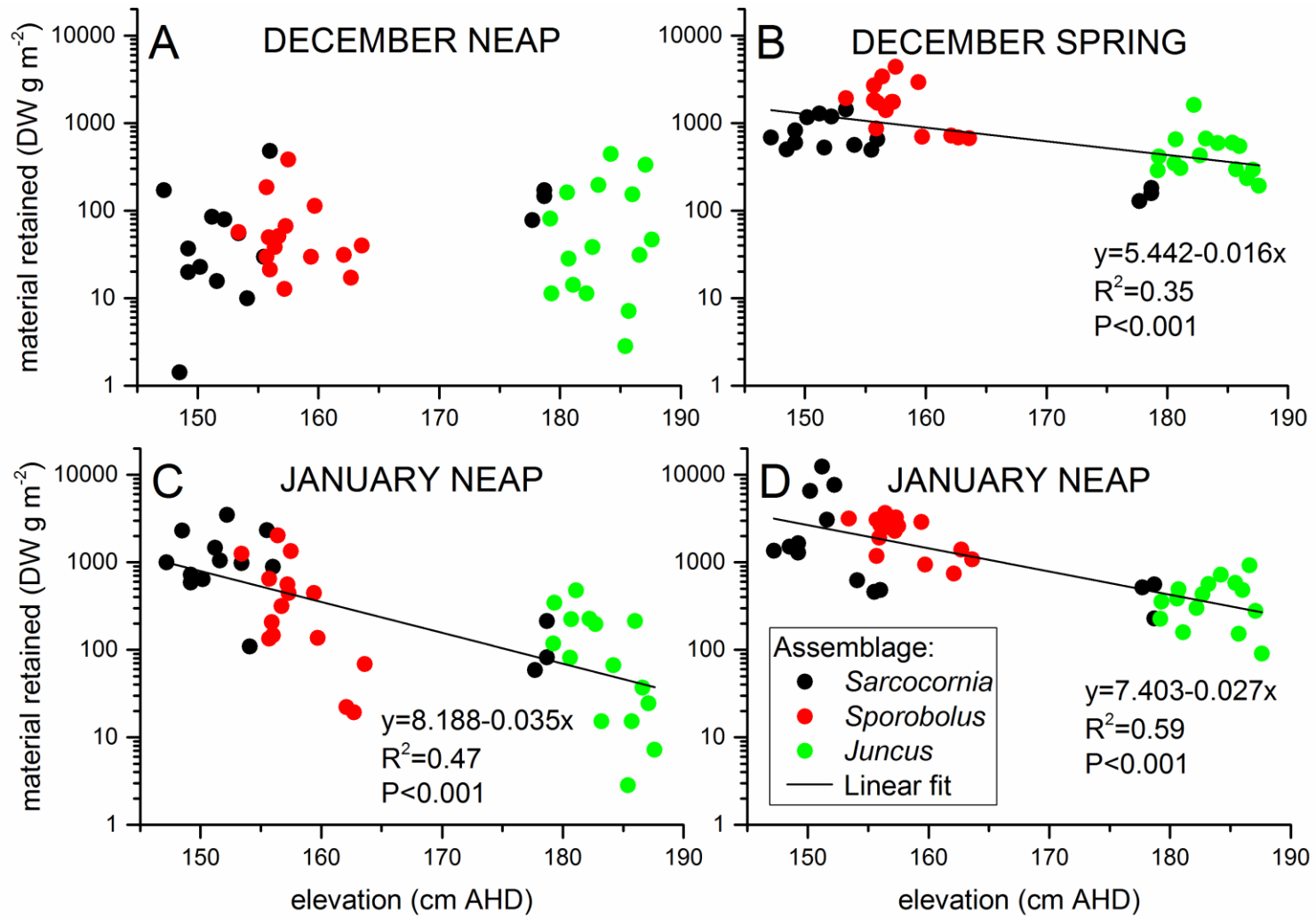

Fig S1. Scatterplots of bulk material retained within vials against the surface elevation of the study plot each vial was located within. Regression line and statistics are included where there was a significant (P<0.05) linear fit. Note the log scale on the Y axes.

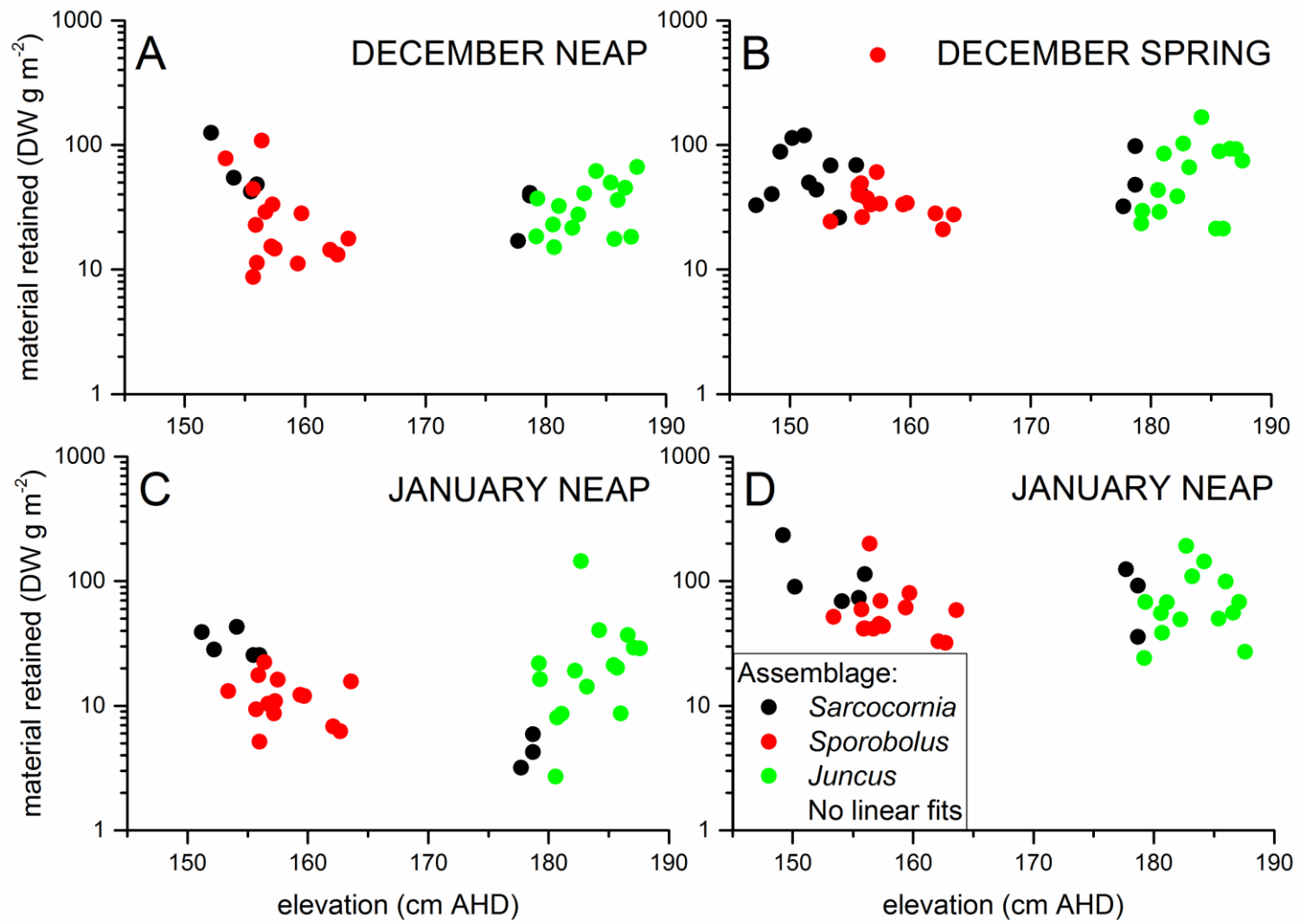

Fig S2. Scatterplots of bulk material retained on filters against the surface elevation of the study plot each filter was located within. There were no significant ($P<0.05$) linear fits. Note the log scale on the Y axes.

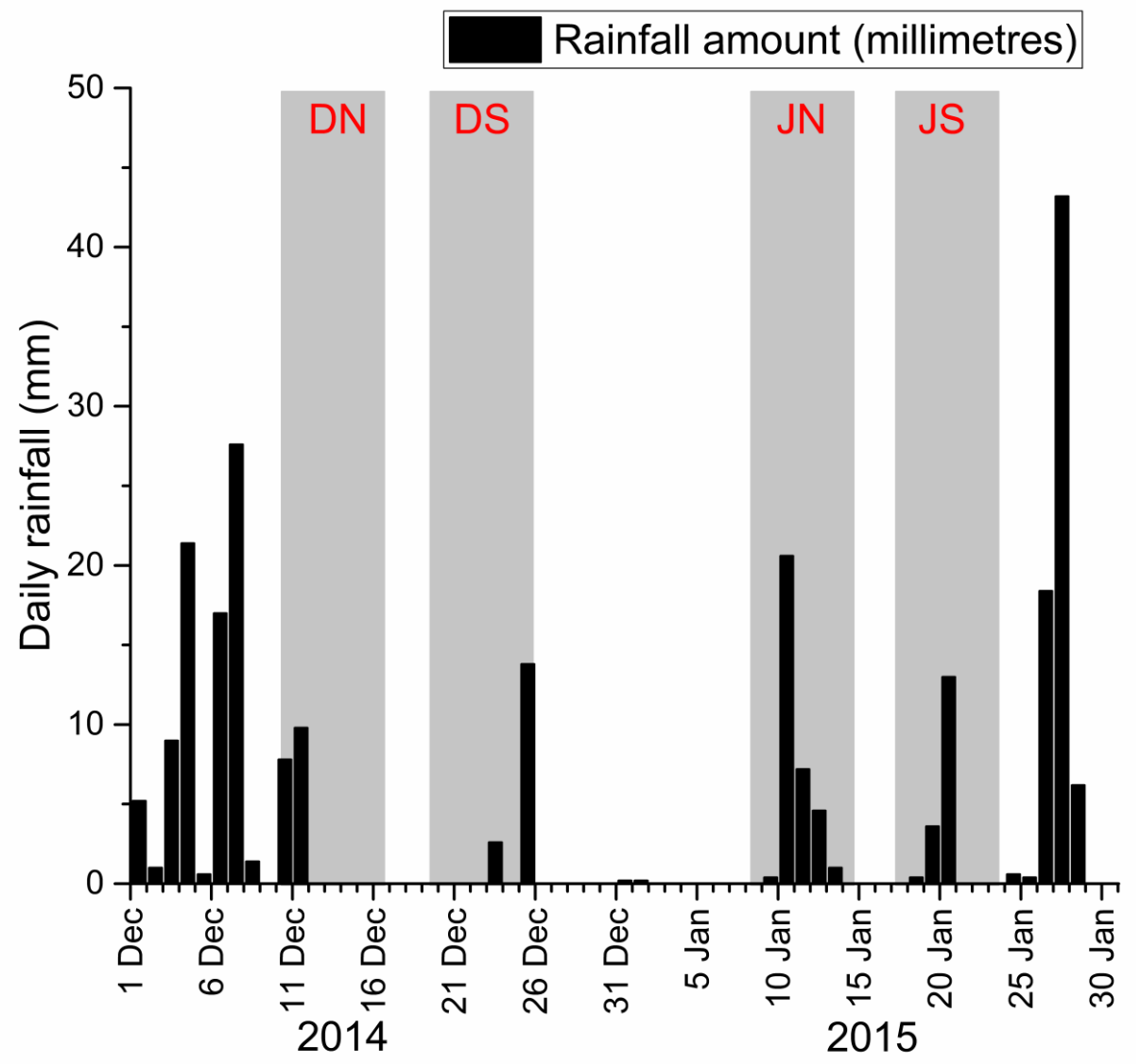

Fig S3. Daily rainfall (mm) records before, during and after filter and vial installation periods. Installation periods are shaded in grey. DN = December neap; DS = December spring; JN = January neap; JS = January spring.