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Marine and Freshwater Research

Supplementary Material

The phenology of *Eucalyptus camaldulensis* (Dehnh, 1832) and *Eucalyptus coolabah* (Blakely & Jacobs, 1934) in the northern Murray–Darling Basin and implications for recruitment on floodplains

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Table S1. Kruskal–Wallis test Results for *E. camaldulensis*.

Phenological Event	Source of Variation	SS	d.f.	MS	H	P-value	H crit
Mean Immature Buds	Site	458448.0	8	65492.57	2.9184	0.9394	15.5073
	Year	710485.5	6	78942.83	42.9489	1.19E-07	12.5917
Mean Mature Buds	Site	460981.0	8	65854.43	3.9953	0.8575	15.5073
	Year	702355.0	6	78039.44	40.2603	4.05E-07	12.5917
Mean Flowers	Site	462468.5	8	66066.93	4.62776	0.7965	15.5073
	Year	677455.0	6	75272.78	32.0261	1.61E-05	12.5917
Mean Finished Flowers	Site	466742.5	8	66677.5	6.4449	0.5975	15.5073
	Year	640478.5	6	71164.28	19.7985	0.003	12.5917
Mean Closed Fruit	Site	471118.0	8	67302.57	8.3053	0.4042	15.5073
	Year	666364.0	6	74040.44	28.3585	8.04E-05	12.5917
Mean Open Fruit	Site	484526.5	8	69218.07	14.0062	0.0816	15.5073
	Year	692174.0	6	76908.22	36.8935	1.85E-06	12.5917

Yellow highlight indicates a significant difference.

Table S2. Kruskal–Wallis test Results for *E. coolabah*.

Phenological Event	Source of variation	SS	d.f.	MS	H	P-value	H crit
Mean Immature Buds	Site	458085.5	8	65440.79	2.7642	0.9483	15.5073
	Year	711524.0	6	79058.22	43.2923	1.02E-07	12.5917
Mean Mature Buds	Site	461498.5	8	65928.36	4.2153	0.83719	15.5073
	Year	690648.5	6	76738.72	36.3891	2.32E-06	12.5917
Mean Flowers	Site	455509.0	8	65072.71	1.6687	0.9895	15.5073
	Year	713261.0	6	79251.22	43.8667	7.86E-08	12.5917
Mean Finished Flowers	Site	471151.0	8	67307.29	8.3193	0.4029	15.5073
	Year	639742.0	6	71082.44	19.5549	0.0033	12.5917
Mean Closed Fruit	Site	453801.0	8	64828.71	0.9426	0.9985	15.5073
	Year	741502.0	6	82389.11	53.2057	1.07E-09	12.5917
Mean Open Fruit	Site	457868.0	8	65366.86	2.5442	0.9596	15.5073
	Year	706274.5	6	78474.94	41.5564	2.25E-07	12.5917

Yellow highlight indicates a significant difference.

Eucalyptus camaldulensis

Mean monthly score for each phenological event



Fig. S1. Mean abundance data for *Eucalyptus camaldulensis* at all sites and in each month is plotted as columns for each year of survey. Immature buds are shown in yellow, mature buds in orange, flowers in red, finished flowers in purple, closed fruit in brown and open fruit in black. Also shown in the mean monthly rainfall at Surat (mm) and minor, moderate and major flood events are indicated by asterisks.

Eucalyptus coolabah

Mean monthly score for each phenological event

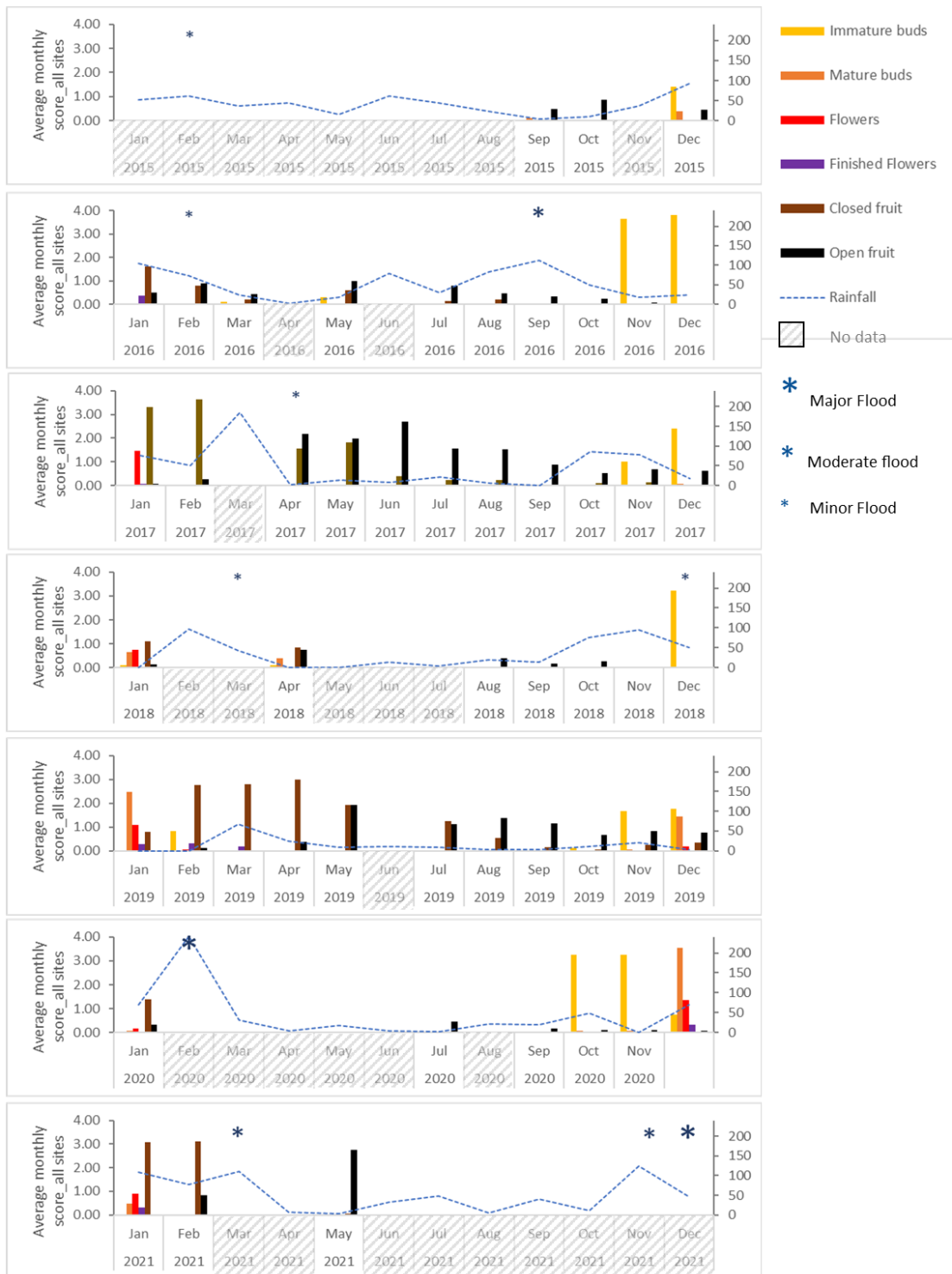


Fig. S2. Mean abundance data for *Eucalyptus coolabah* at all sites and in each month is plotted as columns for each year of survey. Immature buds are shown in yellow, mature buds in orange, flowers in red, finished flowers in purple, closed fruit in brown and open fruit in black. Also shown in the mean monthly rainfall at Surat (mm) and minor, moderate and major flood events are indicated by asterisks.

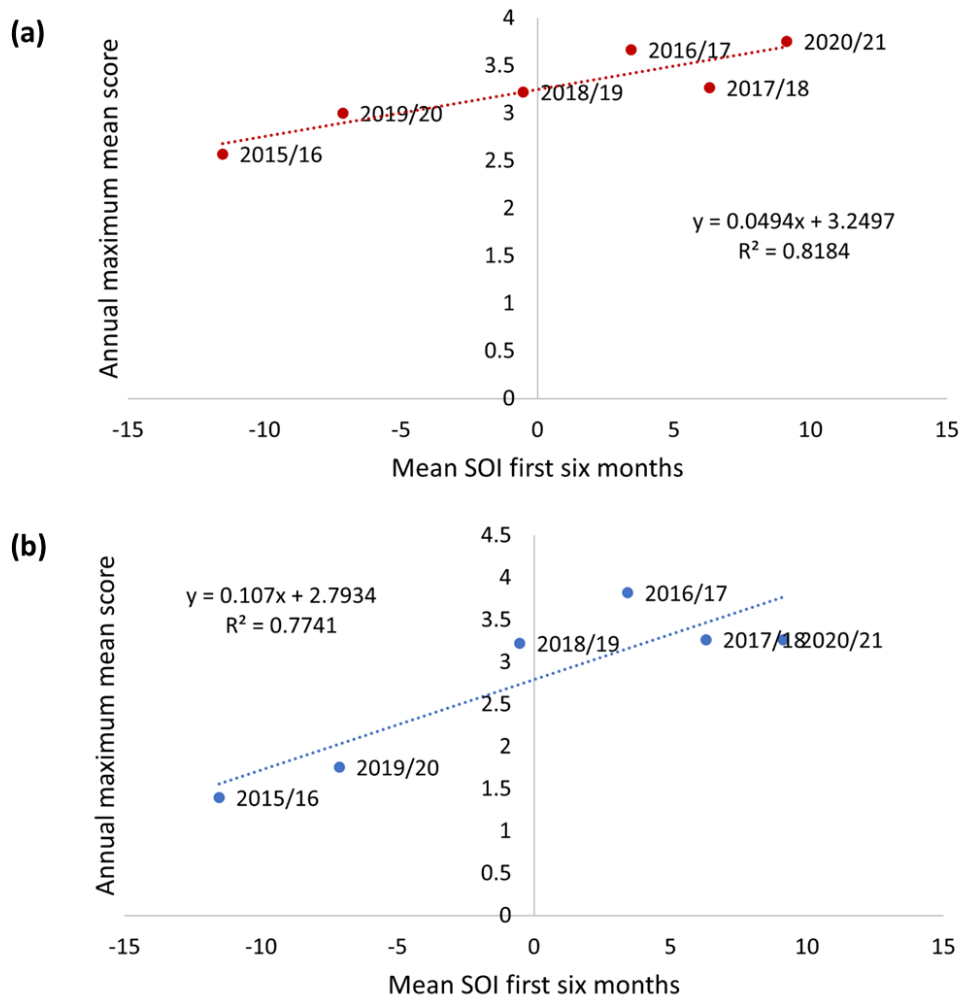


Fig. S3. (a) The annual maximum mean score for *E. camaldulensis* mature buds for 6 years of data was regressed against the mean Southern Oscillation Index (SOI) for the first 6 months of the respective year. An R^2 of 0.82 indicates a good fit for the linear relationship. (b) The annual maximum mean score for *E. coolabah* immature buds for 6 years of data was regressed against the mean SOI for the first 6 months of the respective year. An R^2 of 0.77 indicates a good fit for the linear relationship