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## Supplement 2: Eucalypt traits

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Table S2.1: Grampians taxa. Number of plots at which each taxa occurred. Median SLA (number of leaves/number of trees). Median seed mass (number of samples). Maximum attainable height.

Taxon	No. of plots	SLA (mm <sup>2</sup> /mg)	Seed mass (mg)	Max height (m)
<i>E. alaticaulis</i>	44	3.6 (55/15)	0.9 (6)	30
<i>E. arenacea</i>	43	3.9 (43/13)	2 (12)	10
<i>E. aromaphloia</i>	3	5 (9/3)	0.6 (6)	18
<i>E. baxteri</i>	172	4 (57/25)	1.9 (12)	40
<i>E. camaldulensis ssp. camaldulensis</i>	37	4.7 (28/9)	0.4 (18)	40
<i>E. falciformis</i>	83	5 (19/5)	0.6 (9)	20
<i>E. goniocalyx</i>	48	3.7 (40/15)	1 (3)	12
<i>E. leucoxydon</i>	2	3.8 (9/5)	0.7 (6)	25
<i>E. melliodora</i>	48	5.7 (12/3)	0.4 (12)	30
<i>E. obliqua</i>	127	4.4 (36/11)	1.7 (6)	90
<i>E. ovata var. ovata</i>	37	4.3 (35/10)	0.6 (6)	20
<i>E. pauciflora ssp. parvifructa</i>	4	3.1 (15/3)	1.2 (6)	5
<i>E. radiata ssp. radiata</i>	20	6.1 (20/4)	0.6 (6)	40
<i>E. rubida ssp. rubida</i>	10	6.6 (15/5)	0.5 (6)	20
<i>E. sabulosa</i>	100	6.1 (36/10)	0.6 (9)	15
<i>E. serraensis</i>	25	2.8 (29/8)	2.4 (12)	5
<i>E. verrucata</i>	20	2.5 (38/8)	2.6 (15)	5
<i>E. victoriana</i>	11	2.6 (34/6)	2 (8)	20
<i>E. viminalis ssp. cygnetensis</i>	13	5.3 (15/5)	0.5 (6)	10
<i>E. viminalis ssp. viminalis</i>	31	4.5 (15/5)	0.7 (6)	90

Table S2.2: Southeast taxa. Number of IBRA subregions in which the taxon occurs. Number of plots at which each taxon occurred. Median SLA (number of leaves/number of trees). Median seed mass (number of samples/number of trees). Maximum attainable height.

Taxon	No. of regions	No. of plots	SLA (mm <sup>2</sup> /mg)	Seed mass (mg)	Max height (m)
<i>Angophora costata ssp. costata</i>	3	59	6.7 (15/5)	10.3 (15/5)	30
<i>Angophora floribunda</i>	7	815	8.4 (15/5)	4 (3/1)	30
<i>Corymbia gummifera</i>	6	809	5.4 (30/10)	7.9 (30/10)	35
<i>Corymbia maculata</i>	5	527	6.2 (21/7)	7.7 (9/3)	45
<i>Eucalyptus agglomerata</i>	8	779	4.1 (21/7)	0.7 (21/7)	40
<i>Eucalyptus albens</i>	4	129	3.3 (15/5)	0.7 (12/4)	25
<i>Eucalyptus amplifolia ssp. amplifolia</i>	5	26	7 (12/4)	0.4 (6/2)	30
<i>Eucalyptus angophoroides</i>	6	238	5 (21/7)	0.4 (18/6)	40
<i>Eucalyptus arenicola</i>	1	159	4.1 (21/7)	0.9 (21/7)	15
<i>Eucalyptus baueriana</i>	4	173	7.6 (21/7)	0.2 (6/2)	16
<i>Eucalyptus Baxteri</i>	6	590	3.8 (21/7)	1.2 (18/6)	40
<i>Eucalyptus beyeriana</i>	1	14	4.9 (3/1)	0.2 (3/1)	20
<i>Eucalyptus blakelyi</i>	8	71	4.3 (18/6)	0.2 (15/5)	25
<i>Eucalyptus bosistoana</i>	8	340	4.5 (16/5)	0.3 (12/4)	60
<i>Eucalyptus botryoides/saligna</i>	8	768	5.9 (60/18)	0.5 (41/13)	48
<i>Eucalyptus bridgesiana</i>	13	760	4.1 (21/7)	0.5 (21/7)	25
<i>Eucalyptus bunyip</i>	1	14	5.7 (18/6)	0.4 (18/6)	40

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<i>Eucalyptus burgessiana/stricta</i>	4	40	2.9 (24/8)	1.3 (24/8)	7
<i>Eucalyptus camaldulensis ssp. camaldulensis</i>	7	109	4.5 (57/5)	0.3 (33/5)	40
<i>Eucalyptus camphora ssp. humeana</i>	10	345	5.2 (21/7)	0.3 (21/7)	25
<i>Eucalyptus capitellata</i>	1	2	3 (6/2)	1.1 (6/2)	25
<i>Eucalyptus carolanae</i>	1	7	4.2 (18/6)	0.7 (18/6)	20
<i>Eucalyptus cephalocarpa</i>	5	388	5.3 (33/11)	0.6 (33/11)	20
<i>Eucalyptus chapmaniana</i>	3	52	5.5 (15/5)	0.9 (9/3)	35
<i>Eucalyptus consideriana</i>	11	1050	4.2 (23/7)	0.8 (19/6)	30
<i>Eucalyptus conspicua</i>	5	40	5 (12/4)	0.4 (10/4)	10
<i>Eucalyptus croajingolensis</i>	10	511	10.2 (16/4)	0.6 (8/2)	30
<i>Eucalyptus cypellocarpa</i>	13	3800	4.3 (44/13)	0.8 (24/7)	65
<i>Eucalyptus dalrympleana ssp. dalrympleana</i>	12	1302	5.3 (44/9)	0.5 (14/4)	40
<i>Eucalyptus delegatensis ssp. delegatensis</i>	8	1046	4.6 (32/11)	1.1 (33/11)	90
<i>Eucalyptus dives</i>	14	2149	5.3 (33/11)	0.6 (33/11)	20
<i>Eucalyptus elata</i>	8	708	8.5 (20/6)	0.7 (12/4)	40
<i>Eucalyptus eugenoides/globoidea</i>	13	3490	4.5 (72/16)	0.7 (64/14)	32
<i>Eucalyptus fastigata</i>	10	1497	5.5 (18/6)	0.8 (15/5)	60

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Taxon	No. of regions	No. of plots	SLA (mm <sup>2</sup> /mg)	Seed mass (mg)	Max height (m)
<i>Eucalyptus fibrosa ssp. fibrosa</i>	4	102	4.2 (12/4)	0.6 (12/4)	35
<i>Eucalyptus fraxinoides</i>	5	218	4.5 (15/5)	1.3 (15/5)	40
<i>Eucalyptus fulgens</i>	2	90	6.1 (21/7)	0.6 (21/7)	20
<i>Eucalyptus glaucescens</i>	5	30	4.9 (15/5)	1.3 (15/5)	50
<i>Eucalyptus globulus</i>	14	919	3.4 (52/17)	1.4 (52/17)	48
<i>Eucalyptus goniocalyx/nortonii</i>	11	1012	3.9 (33/11)	0.9 (27/9)	15
<i>Eucalyptus ignorabilis</i>	4	35	6.7 (12/4)	0.5 (12/4)	20
<i>Eucalyptus imitans</i>	3	11	4 (6/2)	0.9 (6/2)	10
<i>Eucalyptus kitsoniana</i>	3	16	3.6 (18/6)	0.3 (12/4)	10
<i>Eucalyptus kybeanensis</i>	5	28	3.4 (15/5)	0.8 (15/5)	4
<i>Eucalyptus lacrimans/pauciflora</i>	13	2474	3.6 (111/34)	1.1 (106/32)	11
<i>Eucalyptus leucoxydon</i>	4	66	4.3 (12/4)	0.5 (3/1)	25
<i>Eucalyptus longifolia</i>	5	474	5.4 (21/7)	0.4 (9/3)	35
<i>Eucalyptus mackintii</i>	3	11	4.2 (8/2)	1.1 (8/2)	30
<i>Eucalyptus macrorhyncha ssp. macrorhyncha</i>	12	1677	4.3 (30/10)	1.9 (27/9)	35
<i>Eucalyptus mannifera</i>	12	993	5 (18/6)	0.5 (18/6)	20
<i>Eucalyptus melliodora</i>	11	762	5.5 (16/5)	0.3 (10/3)	30

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<i>Eucalyptus microcarpa</i>	5	13	4.1 (15/5)	0.2 (9/3)	25
<i>Eucalyptus muelleriana</i>	12	1626	4.1 (19/6)	1.7 (15/5)	40
<i>Eucalyptus nitens</i>	6	226	3.6 (12/4)	0.6 (12/4)	70
<i>Eucalyptus obliqua</i>	13	4048	5.7 (31/10)	0.7 (27/9)	90
<i>Eucalyptus ovata var. ovata</i>	11	697	5.7 (25/8)	0.4 (21/7)	20
<i>Eucalyptus paniculata</i>	5	316	5.3 (24/8)	0.6 (21/7)	30
<i>Eucalyptus perriniana</i>	2	19	5.4 (15/5)	0.7 (15/5)	7
<i>Eucalyptus pilularis</i>	5	354	5.3 (18/6)	1.8 (18/6)	70
<i>Eucalyptus piperita</i>	5	271	5.5 (6/2)	0.7 (3/1)	20
<i>Eucalyptus polyanthemos</i>	9	943	5.1 (14/4)	0.2 (7/2)	20
<i>Eucalyptus punctata</i>	4	78	4.7 (15/5)	0.5 (15/5)	35
<i>Eucalyptus racemosa</i>	3	79	3.6 (18/6)	0.4 (18/6)	20
<i>Eucalyptus radiata</i>	16	3882	7.3 (47/13)	0.6 (47/13)	45
<i>Eucalyptus regnans</i>	8	933	5.3 (15/5)	0.6 (9/3)	90
<i>Eucalyptus rossii</i>	8	422	3.9 (15/5)	0.6 (15/5)	15
<i>Eucalyptus rubida ssp. rubida</i>	12	1206	5.4 (31/6)	0.4 (11/4)	20
<i>Eucalyptus scias ssp. scias</i>	5	142	5 (18/6)	0.7 (9/3)	20

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<i>Eucalyptus sieberi</i>	15	3711	4.5 (35/10)	1.4 (28/8)	35
<i>Eucalyptus smithii</i>	8	380	6.2 (12/4)	0.7 (12/4)	45
<i>Eucalyptus stellulata</i>	12	207	4.9 (71/7)	0.3 (47/7)	15
<i>Eucalyptus stenostoma</i>	2	18	5.3 (15/5)	2.1 (12/4)	25
<i>Eucalyptus strzeleckii</i>	2	13	5.5 (9/3)	0.4 (9/3)	30
<i>Eucalyptus tenella</i>	1	19	3.8 (3/1)	1 (3/1)	15
<i>Eucalyptus tereticornis</i>	9	322	5.2 (27/9)	0.3 (24/8)	35
<i>Eucalyptus tricarpa</i> ssp. <i>tricarpa</i>	7	512	4.3 (24/7)	0.7 (20/6)	35
<i>Eucalyptus triflora</i>	1	2	3.2 (15/4)	1.6 (16/5)	12
<i>Eucalyptus viminalis</i> ssp. <i>pyroriana/viminalis</i>	16	2506	5.7 (47/15)	0.6 (41/13)	52
<i>Eucalyptus willisii</i>	1	20	5.6 (15/5)	0.5 (15/5)	8
<i>Eucalyptus yarraensis</i>	2	4	3.8 (9/3)	0.4 (9/3)	15
<i>Syncarpia glomulifera</i> ssp. <i>glomulifera</i>	5	101	5.2 (12/4)	0.2 (12/4)	60
<i>Tristaniopsis collina/laurina</i>	5	210	7.1 (4/1)	1.9 (4/1)	30

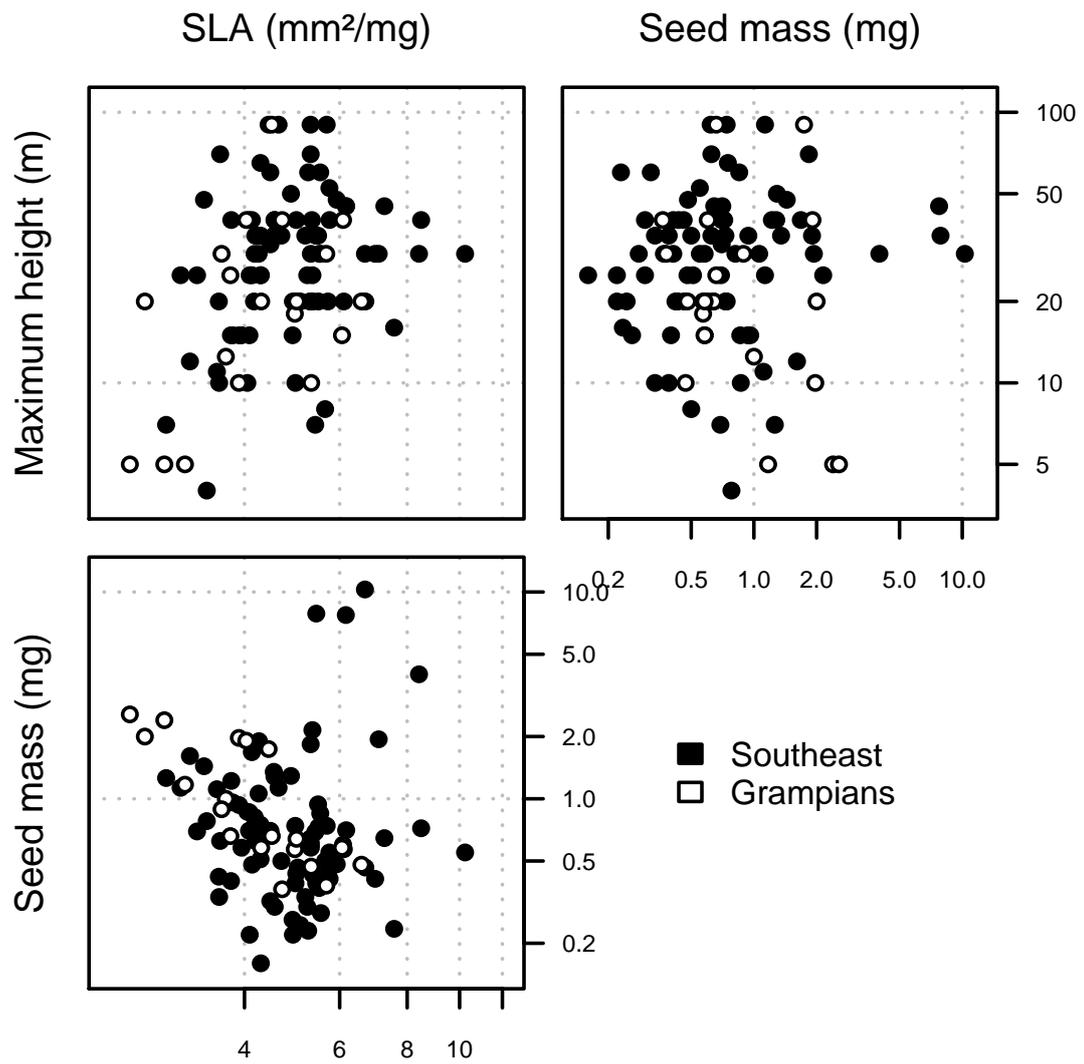


Figure S2.1: The relationships between pairs of eucalypt traits in the Grampians (white circles) and southeast Australia (black dots).