

Supplementary Material

Tab. S1 - Climatic variables at the sites of seed origin and at the planting site. **AAR**: Average annual rainfall; **MAR**: Maximum annual rainfall; **mAR**: Minimum annual rainfall; **MMAR**: Maximum monthly average rainfall; **mMAR**: Minimum monthly average rainfall; **NR50**: Number of months of rainfall less than 50 mm; **AAT**: Average annual temperature; **MMT**: Maximum monthly temperature; **mMT**: Minimum average temperature; **MMAT**: Maximum monthly average temperature; **mMAT**: Minimum monthly average temperature; **ND40**: Number of days below 40°C; **NFD**: Number of freezing days; **PE**: Annual potential evapotranspiration; **SR**: Annual solar radiation; **A**: Altitude; **Long**: Longitude; **Lat**: Latitude.

code	Provenance	AAR	MAR	mAR	MMAR	mMAR	NR50	AAT	MMT	mMt	MMAT	mMAT	ND40	NFD	PE	SR	A	Long	Lat
1	<i>E. microcorys</i>	1423.4	2802	407.4	203.2	45.4	2	20.55	26.4	14.7	30.3	9.2	0.6	0	3.9	18.4	48	152.96	26.96
2	<i>E. tesselaris</i>	889	1395	492	247	4.1	8	23	28.8	17.2	32.1	13.7	0	0	5	20.3	472	145.43	17.07
3	<i>E. citriodora</i>	1155	2240.6	377.6	241.4	16.3	6	19.9	25.4	14.4	28.9	21.4	0	1.6	4.5	19.5	909	145.39	17.38
4	<i>E. maculata</i>	653.4	1178.5	246.4	95.4	29.6	7	19.65	27.1	12.2	33.2	3.6	1.6	17.5	4.8	20	302	150.18	26.66
5	<i>E. nesophila</i>	1260.6	2130.9	605.9	296.2	1	6	27.7	31.4	24	32.2	20.7	0	0	3.1	22	5	132.14	11.15
6	<i>E. peltata</i>	689.7	1721.6	303.1	109.9	24.1	7	21.5	28.8	14.2	34	6.2	1.9	3	4.1	20.7	345	148.09	24.12
7	<i>E. polycarpa</i>	1581.2	2623.4	1037.6	362.9	1.1	6	28.45	34.3	22.6	37.6	18.5	2.7	0	7.2	22.1	27	132.89	12.66
8	<i>E. torelliana</i>	2035.2	4252.9	759.5	428.2	24.1	4	24.25	27.9	20.6	30.3	16.8	0	0	4.5	20.4	8	145.46	16.48
9	<i>E. acmenoides</i>	2040.5	2649	1542.7	327.6	63.3	0	14.85	19.8	9.9	24	4.4	0	7.6	4.4	16.8	746	152.72	30.34
10	<i>E. phaeotricha</i>	1504.6	2885.6	624.4	203	53.4	0	18.1	24.3	11.9	28.3	4.2	0	0	4.4	17.8	112	153.1	30.16
11	<i>E. pilularis</i>	2040.5	2649	1542.7	327.6	63.3	0	14.85	19.8	9.9	24	4.4	0	7.6	4.4	16.8	746	152.72	30.34
12	<i>E. umbra</i>	744.1	1417.9	306.5	113.8	24.7	6	20.1	27.3	12.9	32	5.3	0.5	6.2	4.5	19.4	239	151.12	24.86
13	<i>E. tetrodonta</i>	1284.4	2173.6	688.8	293.4	0.3	6	26.95	31.9	22	34.4	17.2	0	0	5.1	22	11	134.23	12.05
14	<i>E. cloeziana</i>	1132.7	2242.9	157.7	169.1	40.4	2	20.35	27.1	13.6	31.3	6.2	0.2	3.2	3.9	18.8	65	152.64	26.18
15	<i>E. raveretiana</i>	1596	3522.6	710.8	371.2	26.7	4	22.45	27.1	17.8	30.6	11.1	0	0	5.7	20.8	5	149.18	21.17
16	<i>E. alba_Australie</i>	1686.9	2560.9	732.5	377.9	16.3	5	25.55	29.5	21.6	32.1	17.8	0.3	0	4.5	20.9	14	145.19	15.45

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code	Provenance	AAR	MAR	mAR	MMAR	mMAR	NR50	AAT	MMT	mMt	MMAT	mMAT	ND40	NFD	PE	SR	A	Long	Lat
17	<i>E. alba_Timor</i>	910	1185.6	413.8	145	10	2	26.85	30.7	23.1	29	26	0	0	4.2	19.6	102	126.1	8.58
18	<i>E. apodophylla</i>	993	1928.9	587.3	255.7	1.9	7	24.35	32.3	16.4	36.2	8.1	0.9	0.6	6.1	22.1	546	126.1	16.42
19	<i>E. bigalerita</i>	983.8	1575.4	439.5	235.6	0.5	7	27.2	34.2	20.2	38	13.2	9	0	6.1	22.6	107	132.26	14.46
20	<i>E. brassiana</i>	1184.8	2035.1	482.4	289.8	3.1	6	25.1	30.2	20	33	16.6	0.2	0	6.2	20.7	199	143.2	13.94
21	<i>E. exserta</i>	1546.3	2803	725	352.7	44.8	2	21.4	27	15.8	30.7	9.1	0	1.7	5.7	19.5	31	150.66	22.74
22	<i>E. grandis</i>	1033.9	1750.5	470.2	248.9	8.4	6	22.2	27.3	17.1	30.7	13	0	0	5	20.2	594	145.43	17.13
23	<i>E. paniculata</i>	1320.3	2303.4	714	185.6	54.4	0	16.4	20.6	12.2	26.6	6.2	0	0	2.9	16.2	194	151.68	32.24
24	<i>E. pellita</i>	2035.2	4252.9	759.5	428.2	24.1	4	24.25	27.9	20.6	30.3	16.8	0	0	4.5	20.4	8	145.46	16.48
25	<i>E. propinquua</i>	1132.1	1937.6	689.4	176.6	25.8	3	18.3	24.9	11.7	29.2	4.9	0.7	6.8	4.8	17.3	13	152.77	31.07
26	<i>E. punctata</i>	653.4	1178.5	246.4	95.4	29.6	6	19.65	27.1	12.2	33.2	3.6	1.6	17.5	4.8	20	302	150.18	26.66
27	<i>E. resinifera</i>	2753.9	4129.5	1537.1	480.2	82.6	0	20	24.3	15.7	28.4	11.1	0	0.3	3.2	18.4	760	145.6	17.84
28	<i>E. robusta</i>	1132.7	2242.9	157.7	169.1	40.4	2	20.35	27.1	13.6	31.3	6.2	0.2	3.2	3.9	18.8	65	152.64	26.18
29	<i>E. tereticornis</i>	1686.9	2560.9	732.5	377.9	16.3	5	25.55	29.5	21.6	32.1	17.8	0.3	0	4.5	20.9	14	145.19	15.45
30	<i>E. urophylla_Alor</i>	750	1512	300.3	358.5	3.3	2	26.3	30	24	27.2	25.4	0	0	4.7	20.3	978	122.46	8.32
31	<i>E. urophylla_Flores</i>	1590	3575	703.7	290	15	4	25.31	32	22	28.8	26.8	0	0	6.2	21.8	1215	125.26	8.49
32	<i>E. urophylla_Timor</i>	1545	2782	702	390	5	5	27.3	34	21	28.8	26	0	0	5.5	21.1	462	124.26	8.22
33	<i>Pointe_Noire</i>	1204	2000	425	211	0	6	24.8	28	21.7	31	18	0	0	4.2	20.2	4.45	11.59	4.76

Tab. S2 - Characteristics of the study species with their provenance and number of sampled trees at the beginning of the experiment (N seeds). (N): Sampled trees. Survival and functional traits (HT: total tree height; CC: collar circumference; LT: leaf thickness; LD: leaf density; SLA: specific leaf area) with their mean and standard deviation are also given for the both ages (15 and 54 months).

Provenance	N seeds	15 months										54 months										Δ Survival rate				
		N	Survival rate	HT	SD	CC	SD	LT	SD	LD	SD	SLA	SD	N	Survival rate	HT	SD	CC	SD	LT	SD	LD	SD	SLA	SD	
<i>E. acmenoides</i>	66	34	51.51	1.36	0.45	5.01	2.29	0.25	0.02	0.49	0.06	84.21	16.64	17	25.75	5.22	1.68	24.60	7.43	0.26	0.03	0.32	0.21	204.89	136.40	25.76
<i>E. alba_Australie</i>	12	5	41.66	1.57	0.94	4.70	2.29	0.28	0.03	0.39	0.05	94.37	23.91	5	41.66	5.16	1.62	15.64	4.40	0.30	0.03	0.10	0.01	335.48	80.80	0
<i>E. alba_Timor</i>	34	30	88.23	2.09	0.94	7.14	3.79	0.25	0.02	0.41	0.06	101.66	27.18	29	85.29	8.28	3.17	28.52	11.18	0.23	0.03	0.14	0.05	342.81	86.86	2.94
<i>E. apodophylla</i>	29	26	89.65	1.95	0.75	5.82	2.67	0.34	0.04	0.37	0.08	85.24	20.43	21	72.41	5.32	2.04	18.47	7.69	0.32	0.03	0.12	0.03	272.25	65.53	17.24
<i>E. bigalerita</i>	28	5	17.85	1.08	0.65	4.09	3.13	0.32	0.06	0.47	0.08	70.09	16.49	3	10.71	3.00	0.62	13.23	5.01	0.28	0.06	0.14	0.02	252.12	75.76	7.14
<i>E. brassiana</i>	50	47	94	2.14	0.74	5.76	2.56	0.31	0.04	0.49	0.07	68.12	14.08	43	86	7.52	2.25	24.05	9.01	0.34	0.05	0.17	0.07	196.09	60.56	8
<i>E. citriodora</i>	32	20	62.5	2.90	1.21	7.44	3.99	0.24	0.03	0.54	0.08	80.69	12.20	19	59.37	11.27	3.96	34.14	13.62	0.25	0.02	0.20	0.10	250.10	95.40	3.13
<i>E. cloeziana</i>	15	14	93.33	2.13	0.88	7.64	3.72	0.26	0.03	0.46	0.06	85.18	11.79	13	86.66	11.40	3.13	40.28	13.58	0.26	0.03	0.13	0.01	313.76	38.32	6.67
<i>E. exserta</i>	31	22	70.96	1.94	0.74	5.24	2.70	0.31	0.04	0.52	0.05	63.21	7.14	21	67.74	6.51	2.65	22.22	10.86	0.30	0.02	0.14	0.05	244.33	43.87	3.22
<i>E. grandis</i>	34	23	67.64	2.53	0.99	10.77	4.60	0.23	0.02	0.43	0.04	102.04	12.43	20	58.82	9.50	2.61	38.66	15.25	0.24	0.02	0.16	0.08	316.02	123.24	8.82
<i>E. maculata</i>	32	21	65.62	2.50	0.84	7.22	3.71	0.28	0.02	0.45	0.06	83.38	18.11	20	62.5	11.33	3.13	33.12	11.31	0.27	0.03	0.18	0.08	243.71	91.60	3.12
<i>E. microcorys</i>	34	19	55.88	1.78	1.09	6.99	4.90	0.22	0.03	0.54	0.04	82.99	9.98	15	44.11	5.72	2.48	25.27	13.86	0.22	0.02	0.32	0.22	210.32	119.94	11.77
<i>E. nesophila</i>	27	21	77.77	1.75	0.72	5.41	3.01	0.38	0.04	0.43	0.05	61.84	8.69	19	70.37	8.20	2.12	27.71	7.96	0.28	0.02	0.12	0.01	292.64	24.29	7.4
<i>E. paniculata</i>	23	15	65.21	1.83	0.86	6.30	3.11	0.25	0.03	0.49	0.07	87.58	24.85	14	60.86	7.82	2.09	33.61	10.27	0.28	0.05	0.12	0.01	300.65	57.33	4.35
<i>E. pellita</i>	57	51	89.47	2.14	1.06	9.50	5.14	0.30	0.03	0.48	0.05	71.62	8.70	49	85.96	10.03	3.32	39.04	12.48	0.33	0.03	0.14	0.03	231.79	42.06	3.51
<i>E. peltata</i>	25	9	36	1.76	1.12	5.27	4.50	0.36	0.05	0.36	0.10	86.28	35.78	3	12	5.73	3.23	18.30	11.10							24
<i>E. phaeotricha</i>	27	18	66.66	2.01	0.96	7.60	4.47	0.34	0.06	0.51	0.04	59.04	9.42	15	55.55	7.95	2.50	34.61	9.65	0.37	0.05	0.13	0.01	213.53	26.72	11.11
<i>E. pilularis</i>	9	3	33.33	0.85	0.18	2.09	0.84	0.33	0.01	0.59	0.01	51.76	2.64	0												33.33
<i>E. polycarpa</i>	35	35	100	1.76	0.69	7.06	3.02	0.33	0.02	0.44	0.05	68.92	9.78	31	88.57	6.94	1.38	29.08	6.97	0.28	0.02	0.17	0.09	249.31	87.86	11.43
<i>E. propinqua</i>	34	27	79.41	1.71	0.73	6.01	2.73	0.24	0.03	0.50	0.06	86.88	11.81	24	70.58	7.00	1.92	28.78	8.07	0.25	0.02	0.26	0.14	206.48	99.47	8.83

Provenance	N seeds	15 months										54 months										Δ Survival rate				
		N	Survival rate	HT	SD	CC	SD	LT	SD	LD	SD	SLA	SD	N	Survival rate	HT	SD	CC	SD	LT	SD	LD	SD	SLA	SD	
<i>E. punctata</i>	8	6	75	1.49	0.43	4.81	2.16	0.25	0.03	0.46	0.02	89.79	9.12	5	62.5	4.78	1.58	13.78	4.95	0.26	0.00	0.11	0.01	355.72	29.37	12.5
<i>E. raveretiana</i>	33	25	75.75	1.81	0.95	7.84	4.93	0.20	0.03	0.49	0.07	107.41	21.19	21	63.63	8.10	2.58	36.80	13.58	0.20	0.02	0.28	0.27	302.32	153.08	12.12
<i>E. resinifera</i>	29	25	86.2	1.72	0.70	6.53	3.06	0.32	0.03	0.52	0.03	60.47	5.95	24	82.75	7.68	2.22	32.89	10.31	0.33	0.02	0.16	0.06	211.14	60.72	3.45
<i>E. robusta</i>	24	14	58.33	1.61	0.69	7.22	3.30	0.32	0.02	0.44	0.03	70.53	7.28	14	58.33	7.81	2.96	35.97	10.96	0.35	0.02	0.14	0.03	218.61	37.81	0
<i>E. tereticornis</i>	49	46	93.87	2.21	0.66	8.12	2.91	0.26	0.02	0.47	0.05	82.09	9.65	45	91.83	8.89	2.86	32.24	11.24	0.29	0.04	0.16	0.06	248.02	87.52	2.04
<i>E. tessellaris</i>	53	52	98.11	1.52	0.54	5.55	2.31	0.25	0.02	0.46	0.06	87.75	14.05	48	90.56	5.86	1.91	19.06	6.54	0.23	0.02	0.25	0.14	256.10	150.18	7.55
<i>E. tetrodonta</i>	54	19	35.18	1.49	0.93	5.48	5.09	0.21	0.04	0.52	0.10	94.32	14.73	7	12.96	6.51	3.24	29.66	16.10	0.22	0.02	0.25	0.14	232.92	118.96	22.22
<i>E. torelliana</i>	39	23	58.97	1.44	0.45	5.63	2.65	0.27	0.04	0.32	0.05	123.99	43.09	16	41.02	5.27	1.67	27.77	12.32	0.24	0.02	0.16	0.07	299.69	109.16	17.95
<i>E. umbra</i>	48	27	56.25	1.60	0.49	4.75	2.17	0.23	0.02	0.46	0.10	100.70	24.77	21	43.75	6.72	1.77	22.93	6.53	0.25	0.02	0.23	0.12	232.38	121.53	12.5
<i>E. urophylla_Alor</i>	34	23	67.64	2.37	1.29	8.43	4.57	0.27	0.03	0.46	0.05	82.64	13.88	22	64.7	9.80	4.10	34.13	14.87	0.23	0.03	0.17	0.07	290.30	100.39	2.94
<i>E. urophylla_Flores</i>	34	31	91.17	2.68	1.02	10.86	5.16	0.24	0.02	0.39	0.04	110.51	15.00	29	85.29	11.75	3.78	43.53	14.83	0.23	0.02	0.15	0.07	341.43	110.48	5.88
<i>E. urophylla_Timor</i>	16	10	62.5	1.57	0.70	7.06	3.56	0.28	0.02	0.50	0.05	72.31	10.40	9	56.25	6.37	3.06	31.46	12.08	0.25	0.02	0.12	0.02	342.89	65.98	6.25