**Supplementary Table S1**. The climate variables that were calculated at the broad location for each species. State refers to the Australian state where the species occurs. TAS= Tasmania, SA= South Australia, QLD= Queensland, WA= Western Australia, NSW= New South Wales. Rainfall seasonality is an index derived from the ratio of warm to cool season rainfall totals (low values indicate winter seasonal rainfall, neutral values indicate aseasonal rainfall, and high values indicate summer seasonal rainfall). Locations are broad as the exact location of the species is sensitive due to many being on Australian Government legislation threatened schedules.

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Species | State | Rainfall seasonality | Annual mean temp (°C) | Annual mean max temp (°C) | Annual mean min temp (°C) | Annual rainfall (mm) | Mean coldest month temp (°C) | Rainfall driest month (mm) | Broad location | Co-ordinates |
| *Boronia citrodora* | TAS | -0.17 | 12.9 | 16.7 | 7.8 | 1057 | -0.3 | 86 | Avenue River Regional Reserve | 41.46°S, 147.98°E |
| *B. coerulescens* | SA | -1.47 | 14.3 | 18.5 | 8.5 | 779 | 5.2 | 17 | Cleland Conservation Park | 34.97°S, 138.70°E |
| *B. elisabethiae* | TAS | -0.50 | 11.6 | 15.5 | 6.5 | 2078 | 0.5 | 81 | Lake Pedder | 42.89°S, 146.24°E |
| *B. gunnii* | TAS | -0.09 | 10.4 | 14.6 | 5.0 | 787 | 0.9 | 51 | Douglas-Aspley National Park | 41.78°S, 148.17°E |
| *B. hippopala* | TAS | -0.17 | 12.9 | 16.7 | 7.8 | 1057 | 1.2 | 69 | Avenue River Regional Reserve | 41.46°S, 147.98°E |
| *B. inornata* | SA | -0.21 | 16.8 | 23.4 | 9.2 | 252 | 4.0 | 16 | Murray Bridge | 35.13° S, 139.27° E |
| *B. keysii* | QLD | 0.84 | 20.7 | 25.1 | 14.5 | 1560 | 7.7 | 43 | Como | 26.22°S, 152.94°E |
| *B. parviflora* | TAS | -0.23 | 13.5 | 17.0 | 8.6 | 876 | 0.5 | 42 | St Helens | 41.32°S, 148.25°E |
| *B. pilosa* | TAS | -0.23 | 13.5 | 17.0 | 8.6 | 876 | 1.2 | 47 | St Helens | 41.32°S, 148.25°E |
| *B. ramosa* | WA | -4.79 | 18.6 | 23.4 | 12.4 | 832 | 7.9 | 8 | Shirley Balla swamp | 32.15°S, 115.89°E |
| *B. rhomboidea* | TAS | -0.17 | 12.9 | 16.7 | 7.8 | 1057 | 0.9 | 72 | Avenue River Regional Reserve | 41.46°S, 147.98°E |
| *B. rivularis* | QLD | 0.84 | 20.7 | 25.1 | 14.5 | 1560 | 7.7 | 43 | Como | 26.22°S, 152.94°E |
| *B. rozefeldsii* | TAS | 0.01 | 11.6 | 15.1 | 6.7 | 711 | 3.2 | 46 | Freycinet National Park | 42.31°S, 148.29°E |
| *Phebalium tuberculosum* | WA | -1.57 | 17.0 | 23.7 | 9.4 | 327 | 4.7 | 13 | Albany | 35.03°S, 117.88°E |
| *Philotheca spicata* | WA | -4.58 | 18.2 | 23.5 | 11.9 | 816 | 7.9 | 8 | Jandakot Regional Park | 32.16°S, 115.86°E |
| *P. virgata* | TAS | -0.09 | 12.8 | 16.9 | 7.5 | 947 | 5.2 | 81 | Scamander | 41.56°S, 148.25°E |
| *Zieria arborescens* | TAS | -0.09 | 12.8 | 16.9 | 7.5 | 947 | 0.1 | 40 | Scamander | 41.56°S, 148.25°E |
| *Z. littoralis* | TAS | -0.09 | 12.8 | 16.9 | 7.5 | 947 | 3.1 | 44 | Scamander | 41.56°S, 148.25°E |

**Supplementary Table S2**. The germination response for every species at every incubator temperature and treatment. Treatments tested were control (RO water and 12/12 h light), dark (RO water and light exclusion), smoke (smoke water and 12/12 h light) and smoke + dark (smoke and light exclusion). Mean proportion germinated is the mean germination from the three samples. SD refers to standard deviation of the mean (n=3) and SE refers to standard error of the mean.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Species | Incubator temperature tested (ºC) | Related season | Treatment | Mean proportion germinated | sd | se |
| *Boronia citrodora* | 11/3 | winter | control | 0.000 | 0.000 | 0.000 |
| *B. citrodora* | 11/3 | winter | smoke | 0.000 | 0.000 | 0.000 |
| *B. citrodora* | 18/6 | autumn/spring | control | 0.000 | 0.000 | 0.000 |
| *B. citrodora* | 18/6 | autumn/spring | smoke | 0.000 | 0.000 | 0.000 |
| *B. citrodora* | 24/13 | summer | control | 0.000 | 0.000 | 0.000 |
| *B. citrodora* | 24/13 | summer | smoke | 0.000 | 0.000 | 0.000 |
| *B. coerulescens* | 11/3 | winter | control | 0.000 | 0.000 | 0.000 |
| *B. coerulescens* | 11/3 | winter | smoke | 0.020 | 0.034 | 0.020 |
| *B. coerulescens* | 11/3 | winter | dark | 0.000 | 0.000 | 0.000 |
| *B. coerulescens* | 11/3 | winter | smoke + dark | 0.000 | 0.000 | 0.000 |
| *B. coerulescens* | 18/6 | autumn/spring | control | 0.000 | 0.000 | 0.000 |
| *B. coerulescens* | 18/6 | autumn/spring | smoke | 0.000 | 0.000 | 0.000 |
| *B. coerulescens* | 18/6 | autumn/spring | dark | 0.000 | 0.000 | 0.000 |
| *B. coerulescens* | 18/6 | autumn/spring | smoke + dark | 0.039 | 0.034 | 0.020 |
| *B. coerulescens* | 24/13 | summer | control | 0.000 | 0.000 | 0.000 |
| *B. coerulescens* | 24/13 | summer | smoke | 0.000 | 0.000 | 0.000 |
| *B. coerulescens* | 24/13 | summer | dark | 0.020 | 0.034 | 0.020 |
| *B. coerulescens* | 24/13 | summer | smoke + dark | 0.000 | 0.000 | 0.000 |
| *B. elisabethiae* | 11/3 | winter | control | 0.000 | 0.000 | 0.000 |
| *B. elisabethiae* | 11/3 | winter | smoke | 0.019 | 0.032 | 0.019 |
| *B. elisabethiae* | 18/6 | autumn/spring | control | 0.000 | 0.000 | 0.000 |
| *B. elisabethiae* | 18/6 | autumn/spring | smoke | 0.037 | 0.032 | 0.019 |
| *B. elisabethiae* | 24/13 | summer | control | 0.000 | 0.000 | 0.000 |
| *B. elisabethiae* | 24/13 | summer | smoke | 0.019 | 0.032 | 0.019 |
| *B. gunnii* | 11/3 | winter | control | 0.143 | 0.124 | 0.071 |
| *B. gunnii* | 11/3 | winter | smoke | 0.048 | 0.041 | 0.024 |
| *B. gunnii* | 11/3 | winter | dark | 0.119 | 0.082 | 0.048 |
| *B. gunnii* | 11/3 | winter | smoke + dark | 0.119 | 0.041 | 0.024 |
| *B. gunnii* | 18/6 | autumn/spring | control | 0.000 | 0.000 | 0.000 |
| *B. gunnii* | 18/6 | autumn/spring | smoke | 0.000 | 0.000 | 0.000 |
| *B. gunnii* | 18/6 | autumn/spring | dark | 0.024 | 0.041 | 0.024 |
| *B. gunnii* | 18/6 | autumn/spring | smoke + dark | 0.048 | 0.082 | 0.048 |
| *B. gunnii* | 24/13 | summer | control | 0.000 | 0.000 | 0.000 |
| *B. gunnii* | 24/13 | summer | smoke | 0.000 | 0.000 | 0.000 |
| *B. gunnii* | 24/13 | summer | dark | 0.000 | 0.000 | 0.000 |
| *B. gunnii* | 24/13 | summer | smoke + dark | 0.000 | 0.000 | 0.000 |
| *B. hippopala* | 11/3 | winter | control | 0.000 | 0.000 | 0.000 |
| *B. hippopala* | 11/3 | winter | smoke | 0.000 | 0.000 | 0.000 |
| *B. hippopala* | 18/6 | autumn/spring | control | 0.000 | 0.000 | 0.000 |
| *B. hippopala* | 18/6 | autumn/spring | smoke | 0.000 | 0.000 | 0.000 |
| *B. hippopala* | 24/13 | summer | control | 0.000 | 0.000 | 0.000 |
| *B. hippopala* | 24/13 | summer | smoke | 0.000 | 0.000 | 0.000 |
| *B. inornata* | 17/6 | winter | control | 0.035 | 0.061 | 0.035 |
| *B. inornata* | 17/6 | winter | smoke | 0.035 | 0.061 | 0.035 |
| *B. inornata* | 17/6 | winter | dark | 0.000 | 0.000 | 0.000 |
| *B. inornata* | 17/6 | winter | smoke + dark | 0.000 | 0.000 | 0.000 |
| *B. inornata* | 23/8 | autumn/spring | control | 0.053 | 0.091 | 0.053 |
| *B. inornata* | 23/8 | autumn/spring | smoke | 0.000 | 0.000 | 0.000 |
| *B. inornata* | 23/8 | autumn/spring | dark | 0.000 | 0.000 | 0.000 |
| *B. inornata* | 23/8 | autumn/spring | smoke + dark | 0.000 | 0.000 | 0.000 |
| *B. inornata* | 29/14 | summer | control | 0.000 | 0.000 | 0.000 |
| *B. inornata* | 29/14 | summer | smoke | 0.000 | 0.000 | 0.000 |
| *B. inornata* | 29/14 | summer | dark | 0.000 | 0.000 | 0.000 |
| *B. inornata* | 29/14 | summer | smoke + dark | 0.000 | 0.000 | 0.000 |
| *B. keysii* | 20/10 | winter | control | 0.000 | 0.000 | 0.000 |
| *B. keysii* | 20/10 | winter | smoke | 0.030 | 0.052 | 0.030 |
| *B. keysii* | 20/10 | winter | heat | 0.000 | 0.000 | 0.000 |
| *B. keysii* | 20/10 | winter | smoke + heat | 0.000 | 0.000 | 0.000 |
| *B. keysii* | 25/18 | autumn/spring | control | 0.000 | 0.000 | 0.000 |
| *B. keysii* | 25/18 | autumn/spring | smoke | 0.048 | 0.041 | 0.024 |
| *B. keysii* | 25/18 | autumn/spring | heat | 0.048 | 0.082 | 0.048 |
| *B. keysii* | 25/18 | autumn/spring | smoke + heat | 0.071 | 0.071 | 0.041 |
| *B. keysii* | 29/20 | summer | control | 0.170 | 0.156 | 0.090 |
| *B. keysii* | 29/20 | summer | smoke | 0.685 | 0.052 | 0.030 |
| *B. keysii* | 29/20 | summer | heat | 0.333 | 0.109 | 0.063 |
| *B. keysii* | 29/20 | summer | smoke + heat | 0.976 | 0.041 | 0.024 |
| *B. parviflora* | 11/3 | winter | control | 0.000 | 0.000 | 0.000 |
| *B. parviflora* | 11/3 | winter | smoke | 0.000 | 0.000 | 0.000 |
| *B. parviflora* | 11/3 | winter | dark | 0.000 | 0.000 | 0.000 |
| *B. parviflora* | 11/3 | winter | smoke + dark | 0.031 | 0.054 | 0.031 |
| *B. parviflora* | 18/6 | autumn/spring | control | 0.094 | 0.094 | 0.054 |
| *B. parviflora* | 18/6 | autumn/spring | smoke | 0.220 | 0.218 | 0.126 |
| *B. parviflora* | 18/6 | autumn/spring | dark | 0.126 | 0.144 | 0.083 |
| *B. parviflora* | 18/6 | autumn/spring | smoke + dark | 0.189 | 0.094 | 0.054 |
| *B. parviflora* | 24/13 | summer | control | 0.189 | 0.094 | 0.054 |
| *B. parviflora* | 24/13 | summer | smoke | 0.252 | 0.109 | 0.063 |
| *B. parviflora* | 24/13 | summer | dark | 0.126 | 0.054 | 0.031 |
| *B. parviflora* | 24/13 | summer | smoke + dark | 0.126 | 0.144 | 0.083 |
| *B. pilosa* | 11/3 | winter | control | 0.000 | 0.000 | 0.000 |
| *B. pilosa* | 11/3 | winter | smoke | 0.000 | 0.000 | 0.000 |
| *B. pilosa* | 11/3 | winter | dark | 0.000 | 0.000 | 0.000 |
| *B. pilosa* | 11/3 | winter | smoke + dark | 0.000 | 0.000 | 0.000 |
| *B. pilosa* | 18/6 | autumn/spring | control | 0.000 | 0.000 | 0.000 |
| *B. pilosa* | 18/6 | autumn/spring | smoke | 0.000 | 0.000 | 0.000 |
| *B. pilosa* | 18/6 | autumn/spring | dark | 0.000 | 0.000 | 0.000 |
| *B. pilosa* | 18/6 | autumn/spring | smoke + dark | 0.067 | 0.067 | 0.038 |
| *B. pilosa* | 24/13 | summer | control | 0.000 | 0.000 | 0.000 |
| *B. pilosa* | 24/13 | summer | smoke | 0.044 | 0.077 | 0.044 |
| *B. pilosa* | 24/13 | summer | dark | 0.000 | 0.000 | 0.000 |
| *B. pilosa* | 24/13 | summer | smoke + dark | 0.022 | 0.038 | 0.022 |
| *B. ramosa* | 18/6 | winter | control | 0.300 | 0.050 | 0.029 |
| *B. ramosa* | 18/6 | winter | smoke | 0.933 | 0.058 | 0.033 |
| *B. ramosa* | 20/10 | autumn/spring | control | 0.233 | 0.236 | 0.136 |
| *B. ramosa* | 20/10 | autumn/spring | smoke | 0.800 | 0.050 | 0.029 |
| *B. ramosa* | 24/13 | summer | control | 0.233 | 0.076 | 0.044 |
| *B. ramosa* | 24/13 | summer | smoke | 0.800 | 0.087 | 0.050 |
| *B. rhomboidea* | 11/3 | winter | control | 0.000 | 0.000 | 0.000 |
| *B. rhomboidea* | 11/3 | winter | smoke | 0.000 | 0.000 | 0.000 |
| *B. rhomboidea* | 18/6 | autumn/spring | control | 0.000 | 0.000 | 0.000 |
| *B. rhomboidea* | 18/6 | autumn/spring | smoke | 0.000 | 0.000 | 0.000 |
| *B. rhomboidea* | 24/13 | summer | control | 0.000 | 0.000 | 0.000 |
| *B. rhomboidea* | 24/13 | summer | smoke | 0.000 | 0.000 | 0.000 |
| *B. rivularis* | 20/10 | winter | control | 0.023 | 0.039 | 0.023 |
| *B. rivularis* | 20/10 | winter | smoke | 0.090 | 0.103 | 0.060 |
| *B. rivularis* | 25/18 | autumn/spring | control | 0.090 | 0.078 | 0.045 |
| *B. rivularis* | 25/18 | autumn/spring | smoke | 0.090 | 0.103 | 0.060 |
| *B. rivularis* | 29/20 | summer | control | 0.293 | 0.039 | 0.023 |
| *B. rivularis* | 29/20 | summer | smoke | 0.788 | 0.217 | 0.125 |
| *B. rozefeldsii* | 11/3 | winter | control | 0.019 | 0.032 | 0.019 |
| *B. rozefeldsii* | 11/3 | winter | smoke | 0.000 | 0.000 | 0.000 |
| *B. rozefeldsii* | 18/6 | autumn/spring | control | 0.037 | 0.032 | 0.019 |
| *B. rozefeldsii* | 18/6 | autumn/spring | smoke | 0.037 | 0.032 | 0.019 |
| *B. rozefeldsii* | 24/13 | summer | control | 0.037 | 0.032 | 0.019 |
| *B. rozefeldsii* | 24/13 | summer | smoke | 0.000 | 0.000 | 0.000 |
| *Phebalium tuberculosum* | 18/6 | winter | control | 0.000 | 0.000 | 0.000 |
| *P. tuberculosum* | 18/6 | winter | smoke | 0.444 | 0.237 | 0.137 |
| *P. tuberculosum* | 20/10 | autumn/spring | control | 0.000 | 0.000 | 0.000 |
| *P. tuberculosum* | 20/10 | autumn/spring | smoke | 0.444 | 0.157 | 0.090 |
| *P. tuberculosum* | 24/13 | summer | control | 0.000 | 0.000 | 0.000 |
| *P. tuberculosum* | 24/13 | summer | smoke | 0.513 | 0.271 | 0.157 |
| *Philotheca spicata* | 18/6 | winter | control | 0.000 | 0.000 | 0.000 |
| *P. spicata* | 18/6 | winter | smoke | 0.474 | 0.105 | 0.061 |
| *P. spicata* | 20/10 | autumn/spring | control | 0.000 | 0.000 | 0.000 |
| *P. spicata* | 20/10 | autumn/spring | smoke | 0.596 | 0.080 | 0.046 |
| *P. spicata* | 24/13 | summer | control | 0.000 | 0.000 | 0.000 |
| *P. spicata* | 24/13 | summer | smoke | 0.105 | 0.053 | 0.030 |
| *P. virgata* | 11/3 | winter | control | 0.018 | 0.030 | 0.018 |
| *P. virgata* | 11/3 | winter | smoke | 0.000 | 0.000 | 0.000 |
| *P. virgata* | 18/6 | autumn/spring | control | 0.000 | 0.000 | 0.000 |
| *P. virgata* | 18/6 | autumn/spring | smoke | 0.035 | 0.030 | 0.018 |
| *P. virgata* | 24/13 | summer | control | 0.035 | 0.030 | 0.018 |
| *P. virgata* | 24/13 | summer | smoke | 0.070 | 0.122 | 0.070 |
| *Zieria arborescens* | 11/3 | winter | control | 0.000 | 0.000 | 0.000 |
| *Z. arborescens* | 11/3 | winter | smoke | 0.042 | 0.072 | 0.042 |
| *Z. arborescens* | 18/6 | autumn/spring | control | 0.042 | 0.072 | 0.042 |
| *Z. arborescens* | 18/6 | autumn/spring | smoke | 0.083 | 0.072 | 0.042 |
| *Z. arborescens* | 24/13 | summer | control | 0.083 | 0.144 | 0.083 |
| *Z. arborescens* | 24/13 | summer | smoke | 0.125 | 0.125 | 0.072 |
| *Z. littoralis* | 11/3 | winter | control | 0.018 | 0.030 | 0.018 |
| *Z. littoralis* | 11/3 | winter | smoke | 0.018 | 0.030 | 0.018 |
| *Z. littoralis* | 18/6 | autumn/spring | control | 0.070 | 0.061 | 0.035 |
| *Z. littoralis* | 18/6 | autumn/spring | smoke | 0.035 | 0.061 | 0.035 |
| *Z. littoralis* | 24/13 | summer | control | 0.053 | 0.000 | 0.000 |
| *Z. littoralis* | 24/13 | summer | smoke | 0.018 | 0.030 | 0.018 |