Adult and seedling genotypes for six species-specific SSR loci for 11 natural and 3 restored *Allocasuarina verticillata* sites selected from the Corangamite Catchment in Victoria, south-eastern Australia. All sites provided as individual worksheets with sample name followed by SSRs. Adult samples and gender are designated as: Site Number-tree number-F to indicate females (e.g. 4-1-F indicates Site 4, tree 1, female) and Site Number-tree number-M (e.g. 4-3-M indicates Site 4, tree 3, male) to indicate males. When gender is “?” tree was not flowering and gender could not be ascertained. Two types of seedlings are represented – those specifically collected from each direction of a tree canopy (i.e. N, S, E & W) to assess mating patterns and those collected just for general genetic diversity assessments. Accordingly, seedlings are designated in two ways - as Site Number-tree number-direction and seedling number (e.g. 6-10-W3 indicates Site 6, tree 10, seedling number 3 collected from the western canopy) and as Site Number-tree number-seedling number (e.g. 4-1-sp1 indicates Site 4, tree 1, seedling 1).