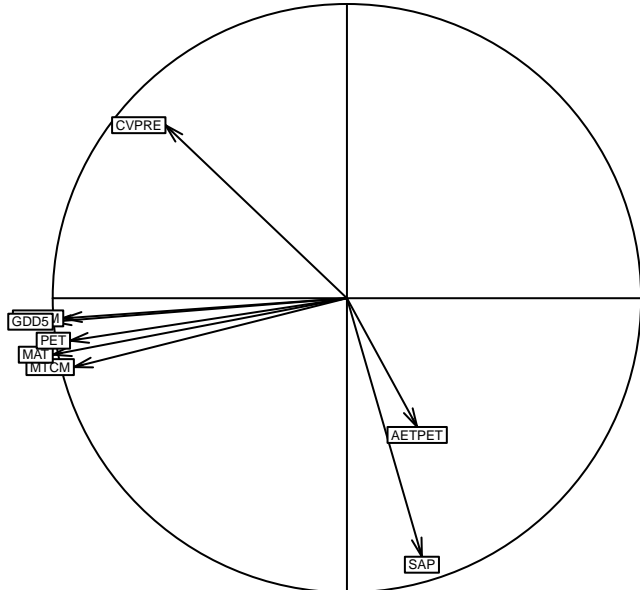


Appendix 2

The first panel shows the correlation between climatic variables and the first two components of the principal component analysis calibrated on the climatic conditions in the native region and USA. Arrow lengths demonstrate contribution of each variable.

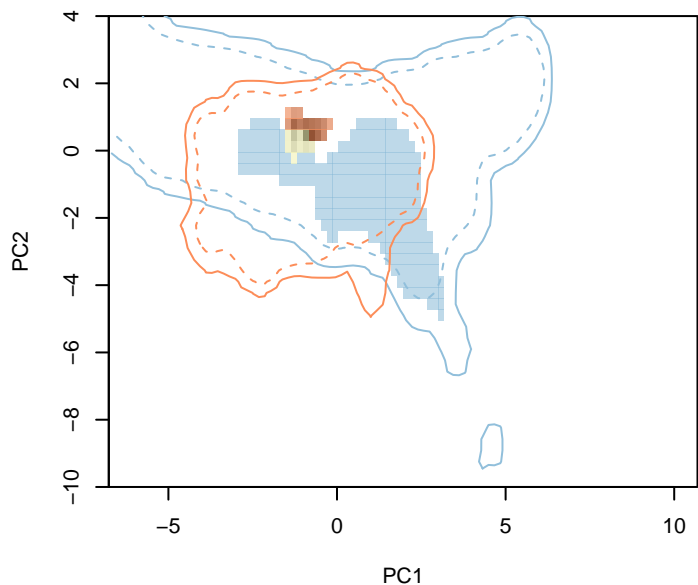
The following panels show niche dynamics between native (blue) and naturalised regions (orange) for each species. Contour lines show climate space available in each region, solid lines = all available climate space, dashed lines = 75% percentile of available climate space. Areas shaded (on a grey scale) show areas occupied in the USA, with the density of shading (from light grey to black) indicating frequency of occupancy in the USA. Yellow shading shows niche stability (i.e., climate space occupied by species in both the native and naturalized ranges), blue shading shows underfilling (climate space suitable in the native range that is not occupied in the naturalised range), and orange shading shows expansion (conditions beyond those occupied in the native range that species occupy in the naturalised range). Note that to maximize clarity, the y-axis has been truncated at -10 to exclude some very small quantities of climate space only available in the native region.

Correlation circle

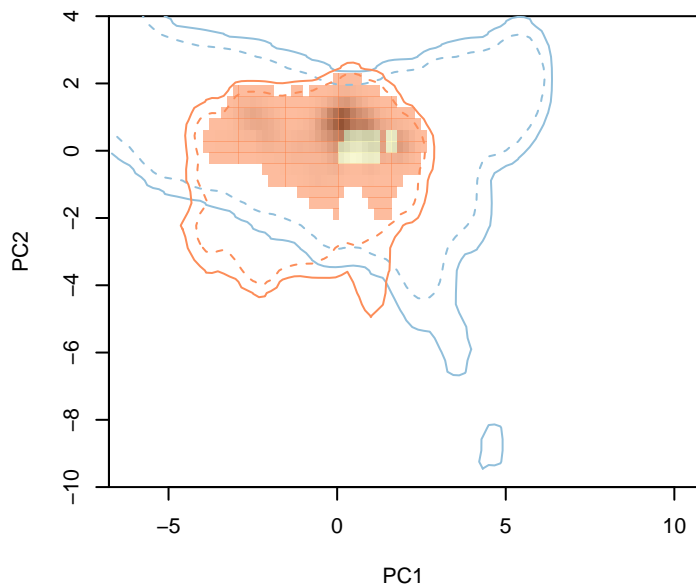


Axis 1 = 60.89 % , axis 2 = 16.85 %

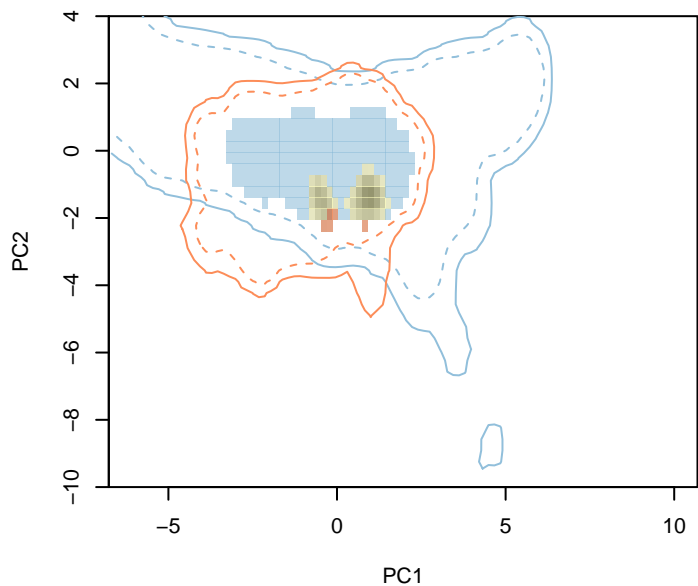
Atriplex laciniata



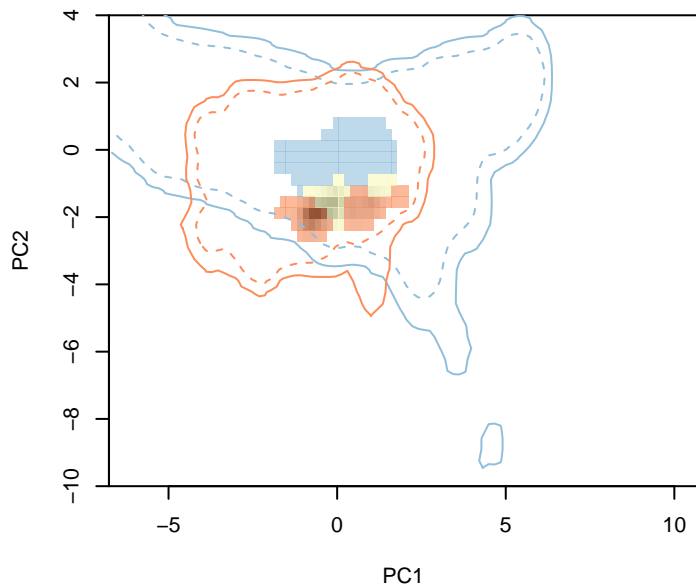
Atriplex micrantha



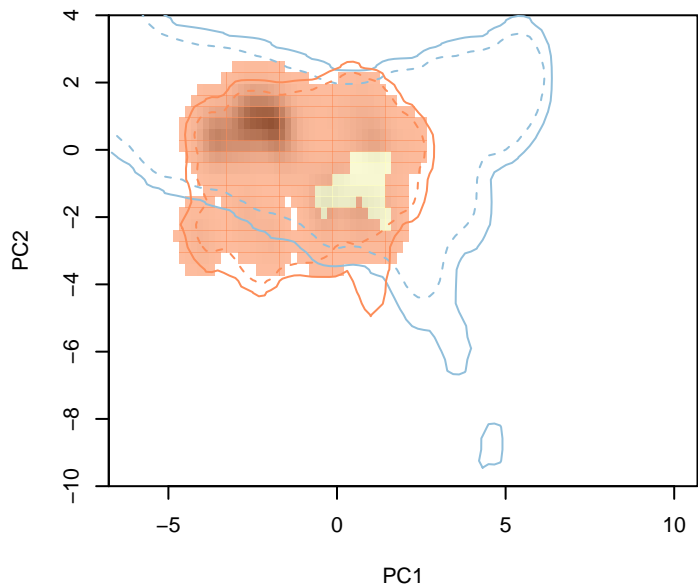
Aurinia saxatilis



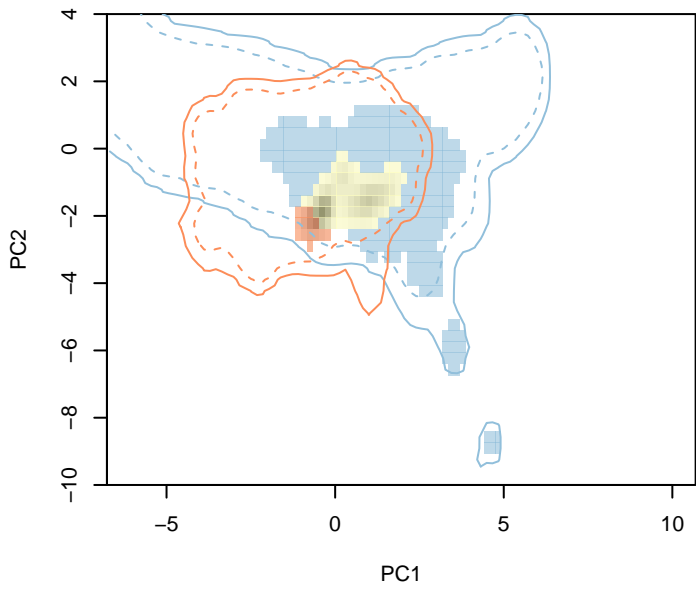
Bassia hirsuta



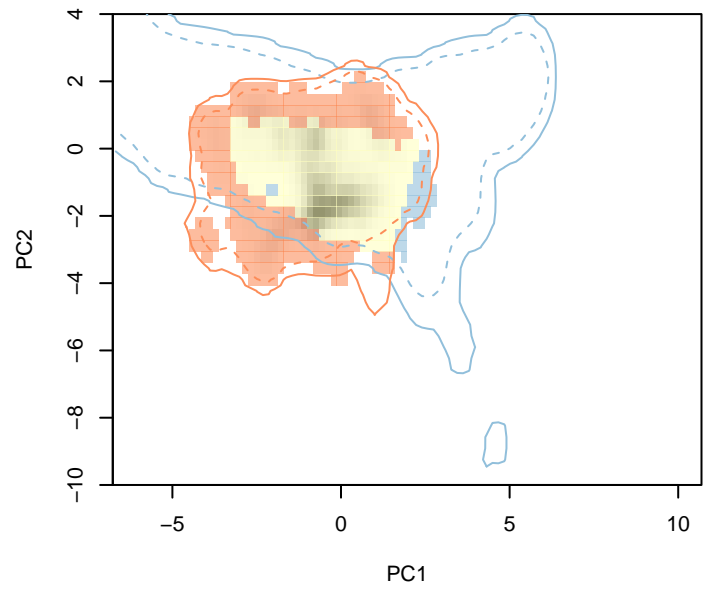
Brassica oleracea



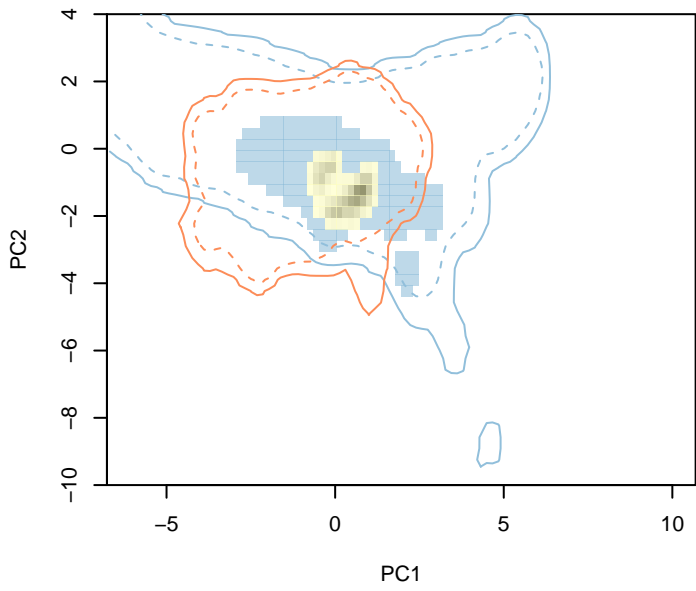
Chenopodium bonus-henricus



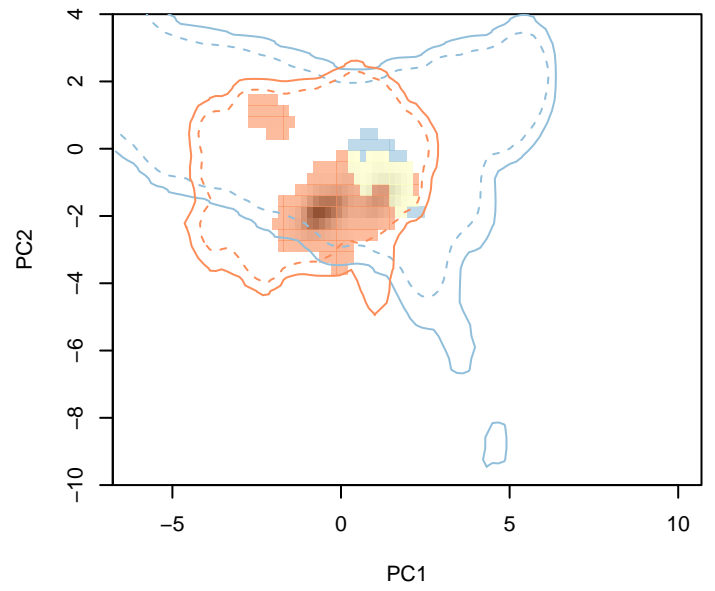
Consolida ajacis



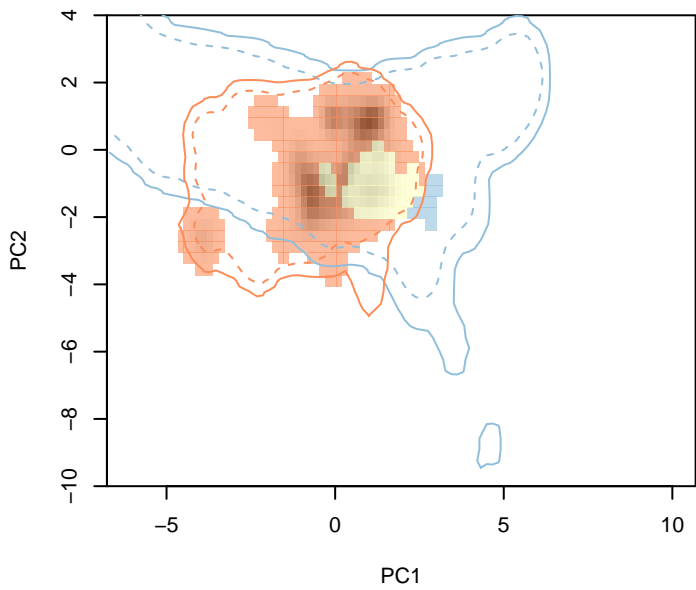
Coincya monensis



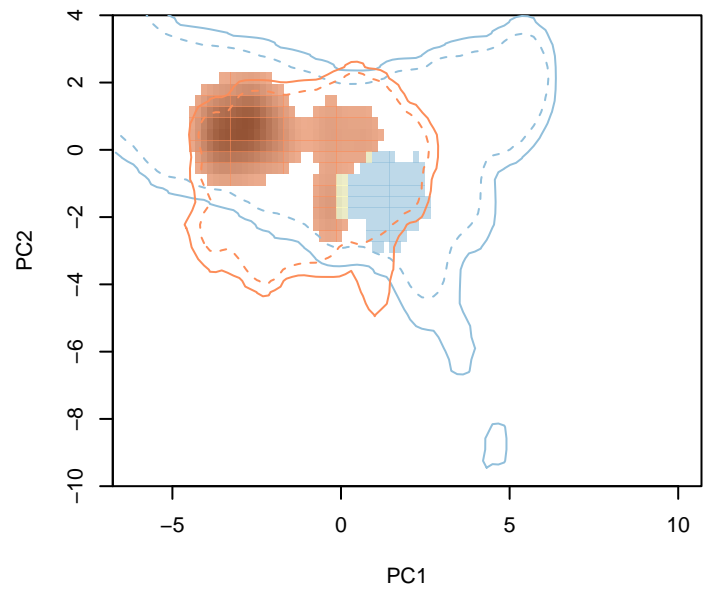
Dianthus plumarius



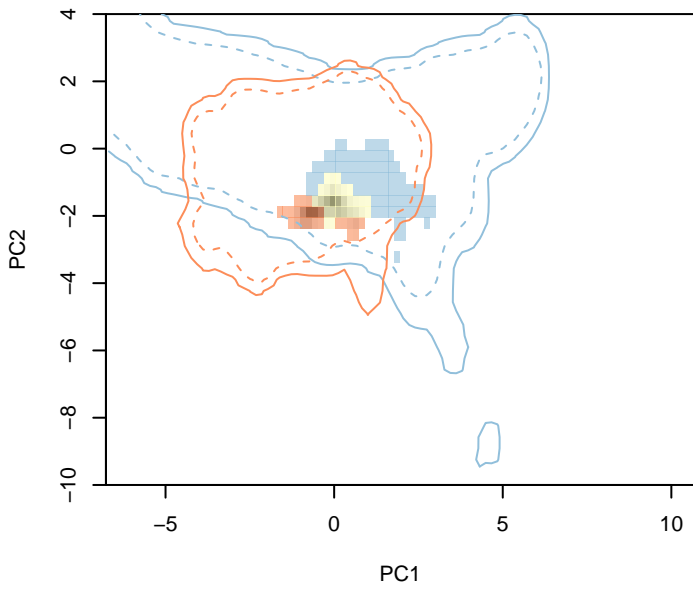
Erucastrum gallicum



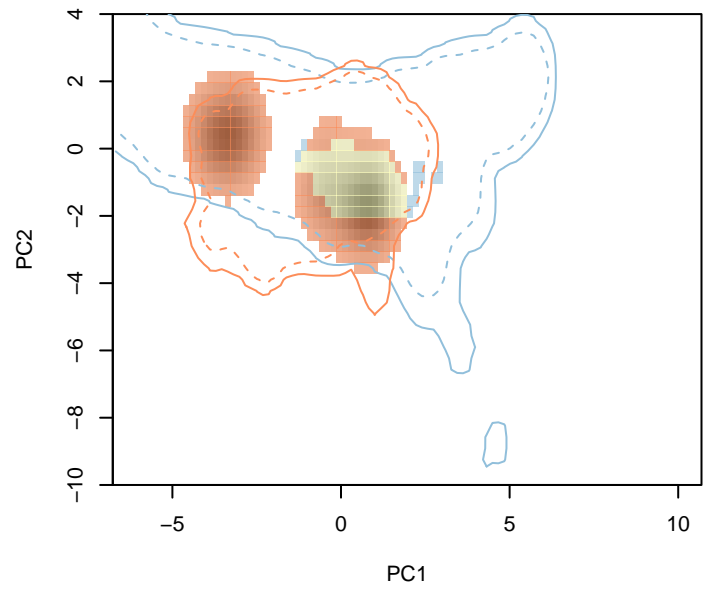
Helleborus niger



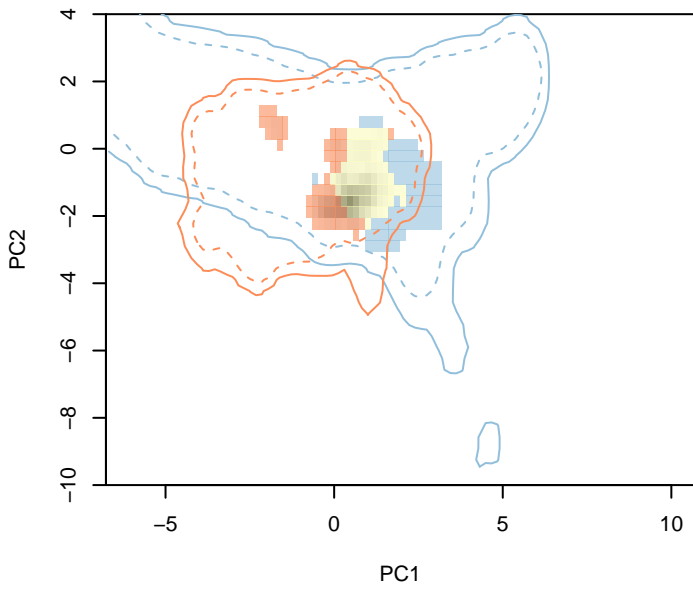
Helleborus viridis



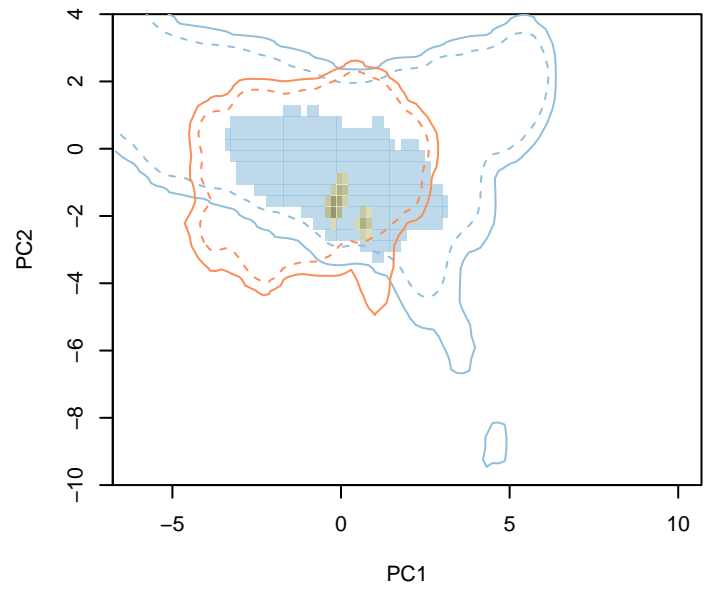
Iberis amara



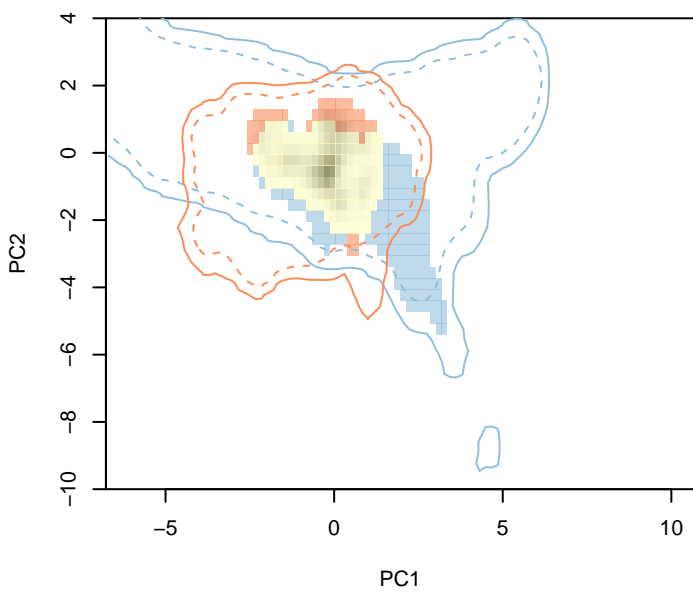
Larix decidua



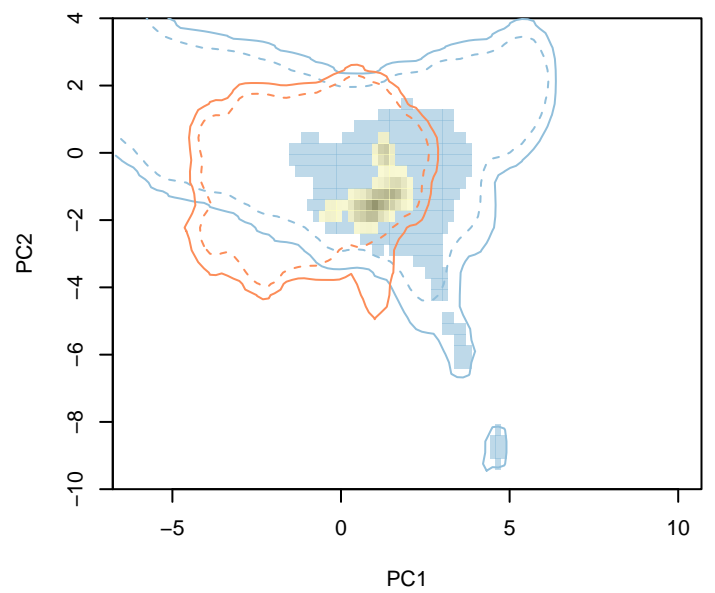
Lepidium graminifolium



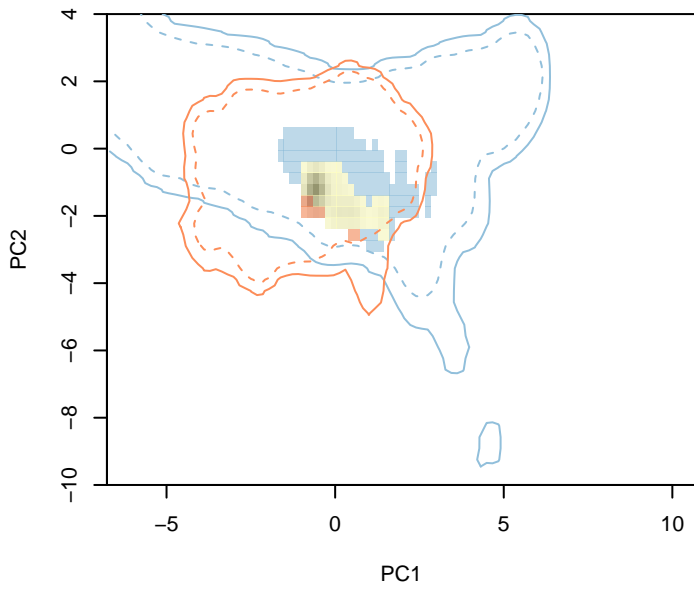
Lepidium heterophyllum



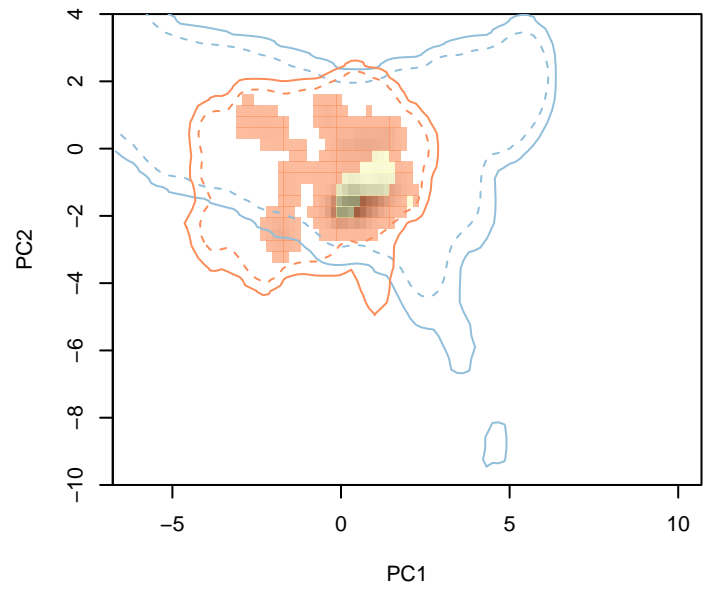
Lychnis viscaria



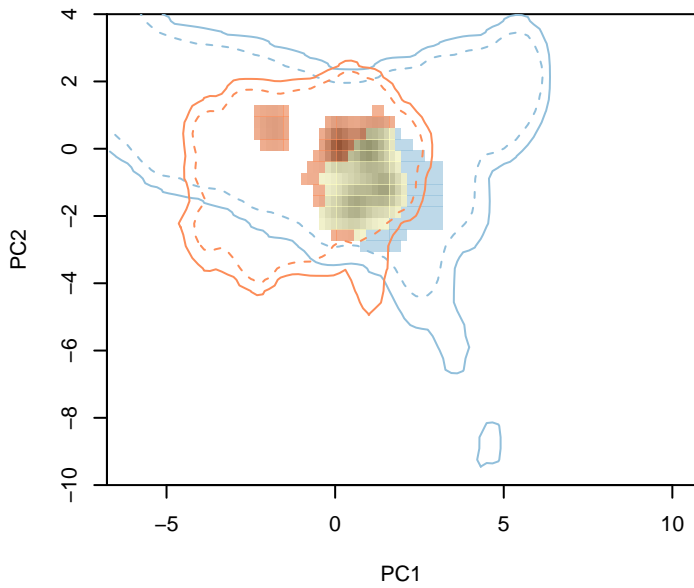
Paeonia officinalis



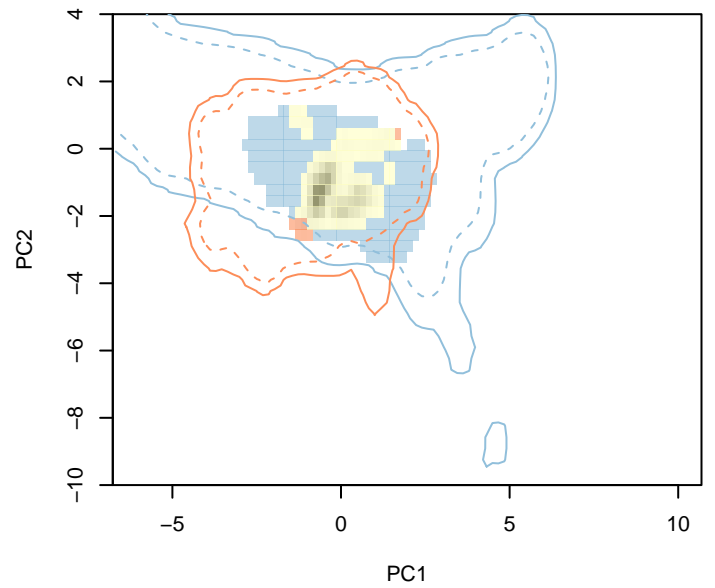
Philadelphus coronarius



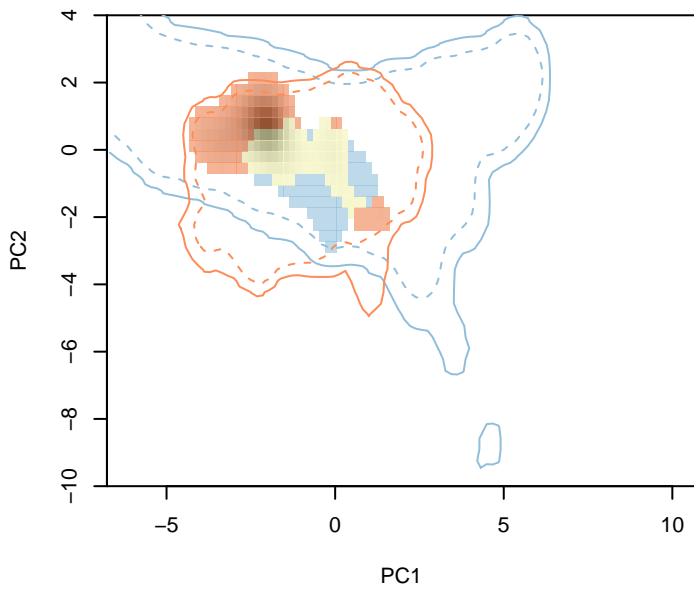
Pinus mugo



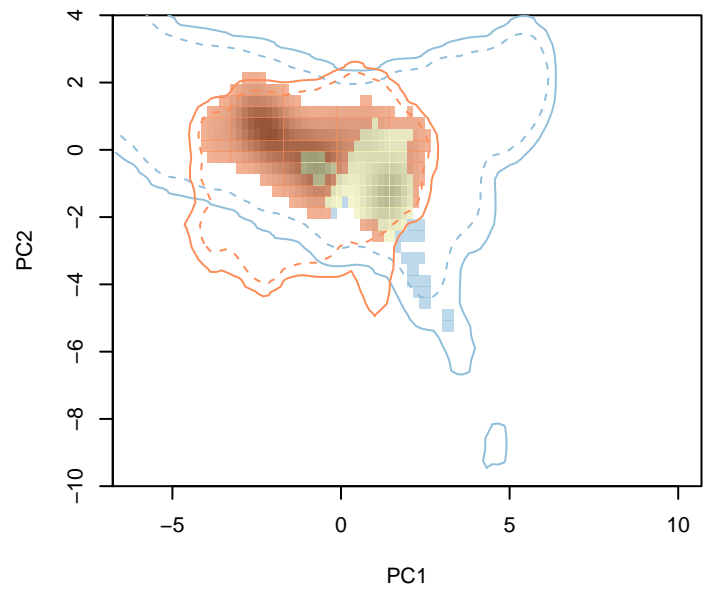
Pinus nigra



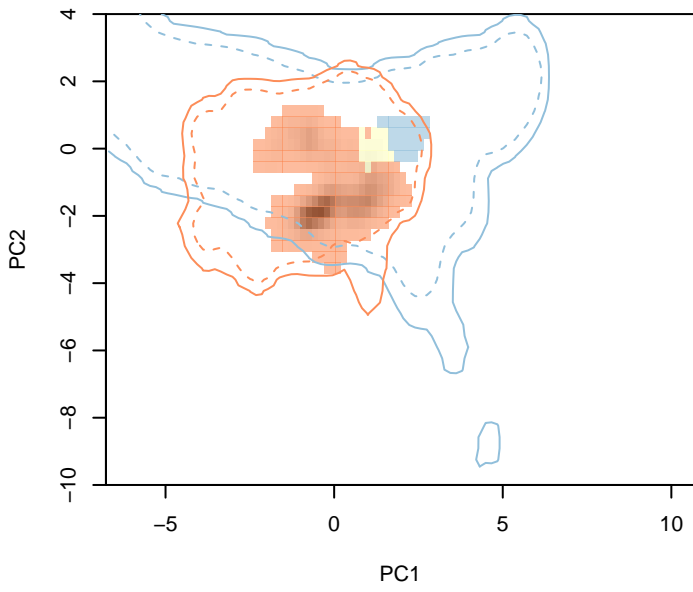
Pinus pinaster



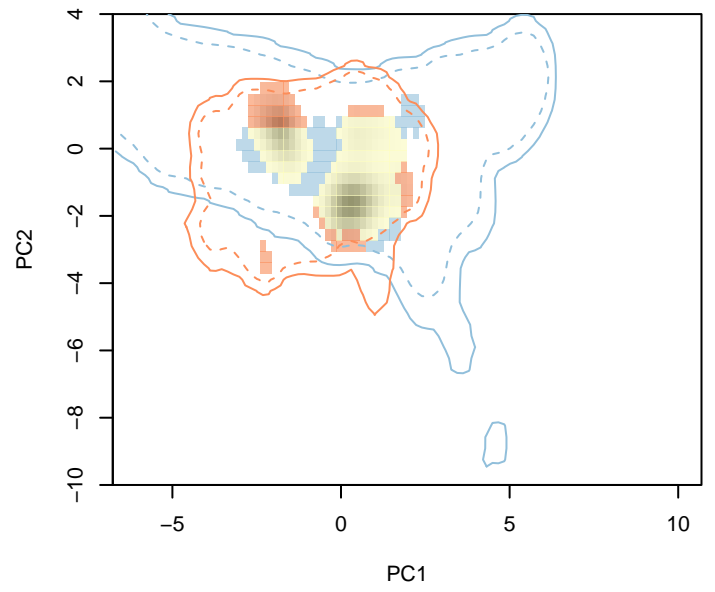
Potentilla anglica



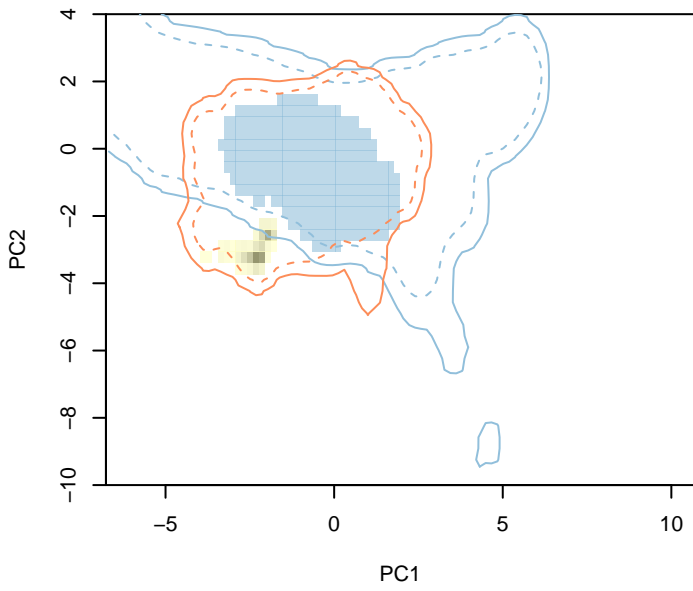
Potentilla intermedia



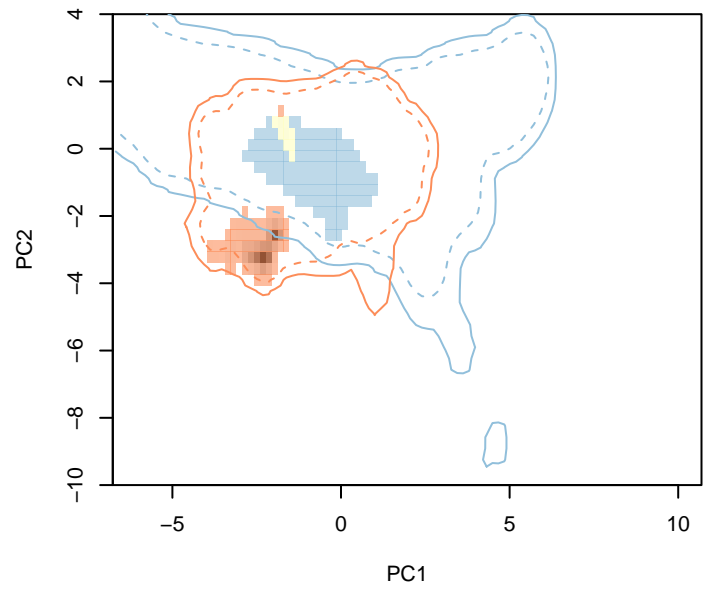
Polygonum patulum



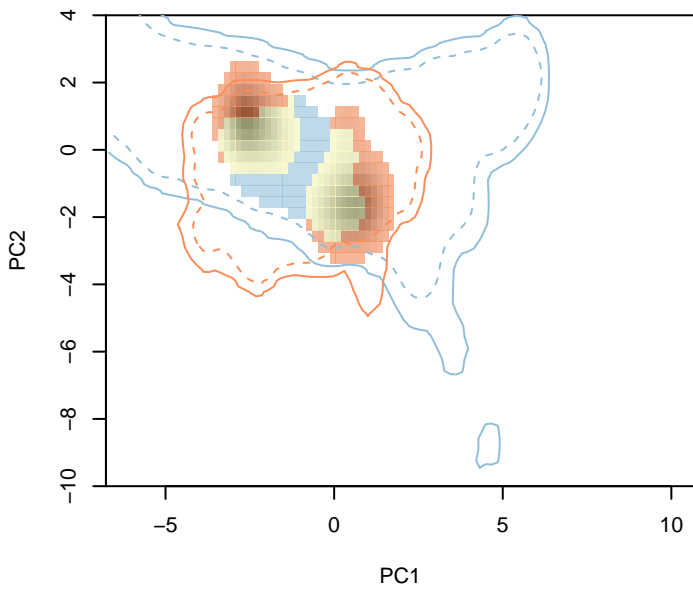
Ranunculus marginatus



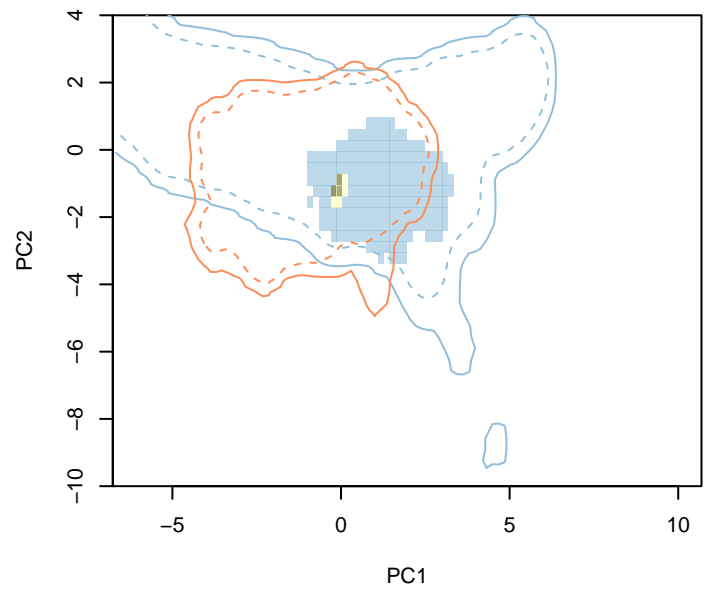
Ranunculus trilobus



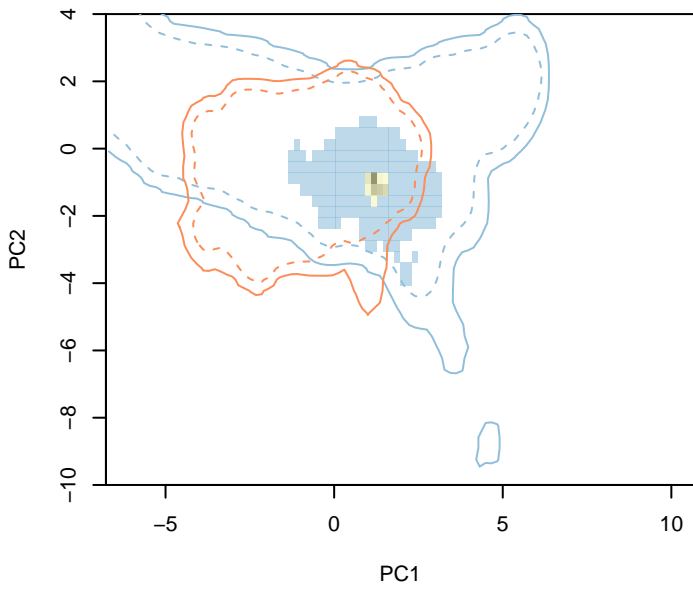
Reseda odorata



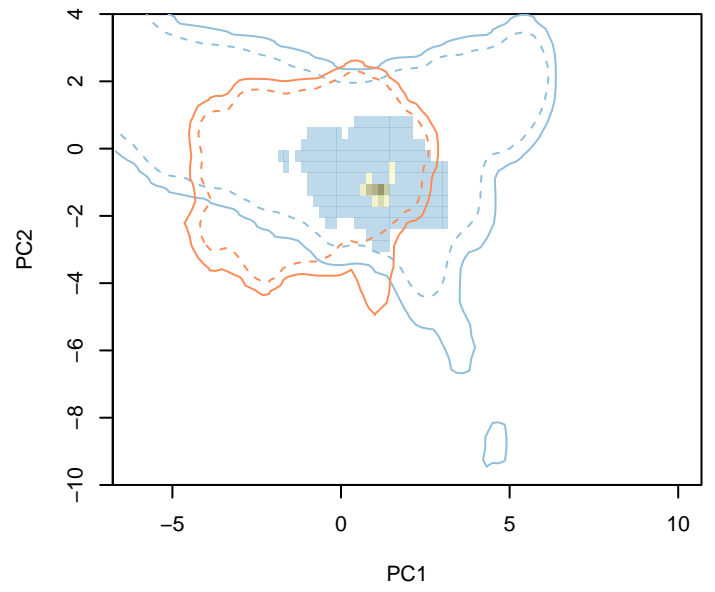
Rosa ferruginea



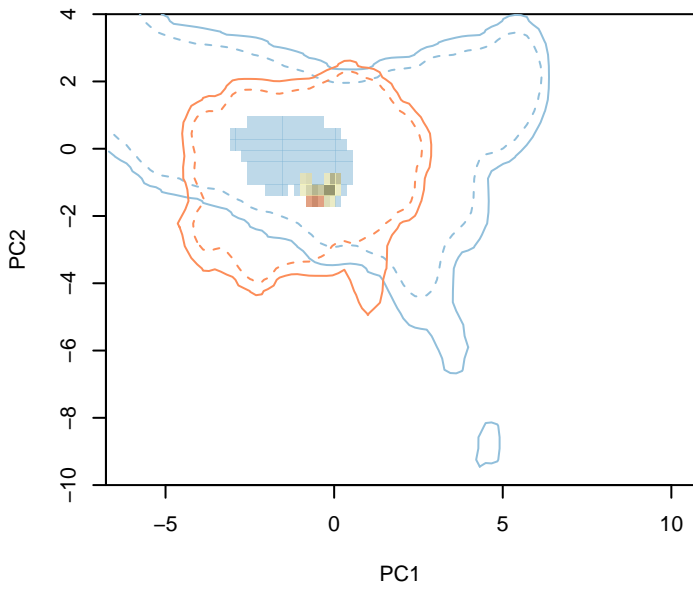
Rosa tomentosa



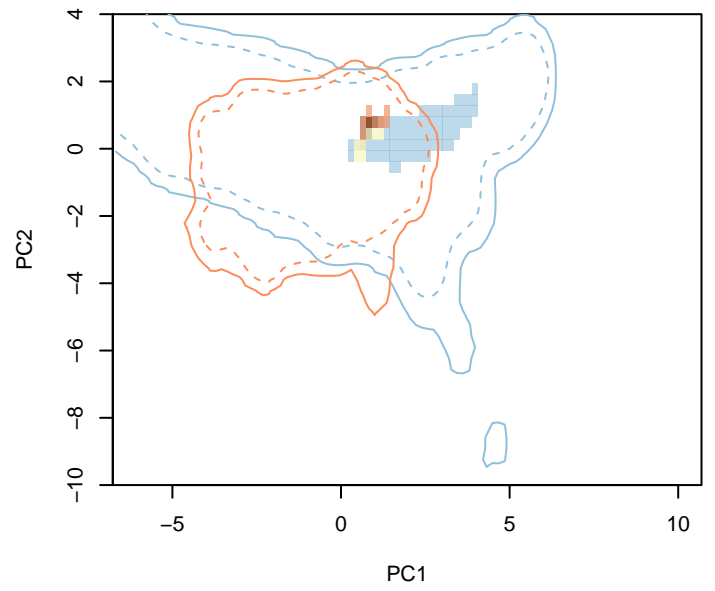
Rosa villosa



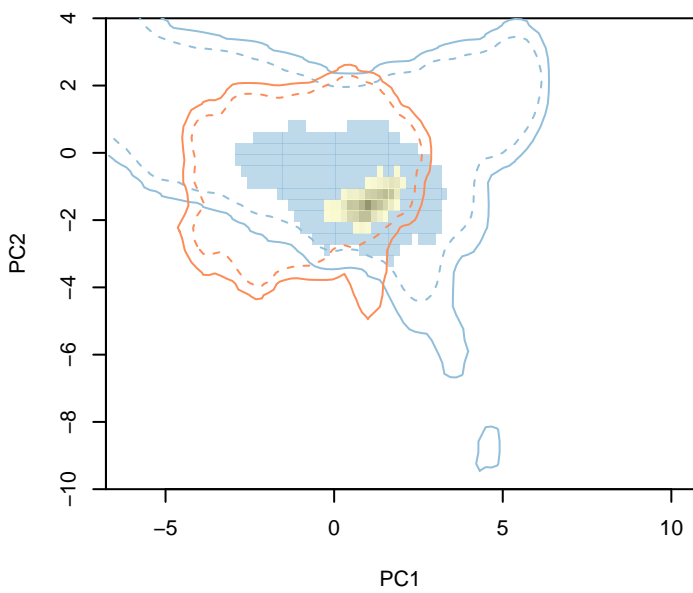
Rumex cristatus



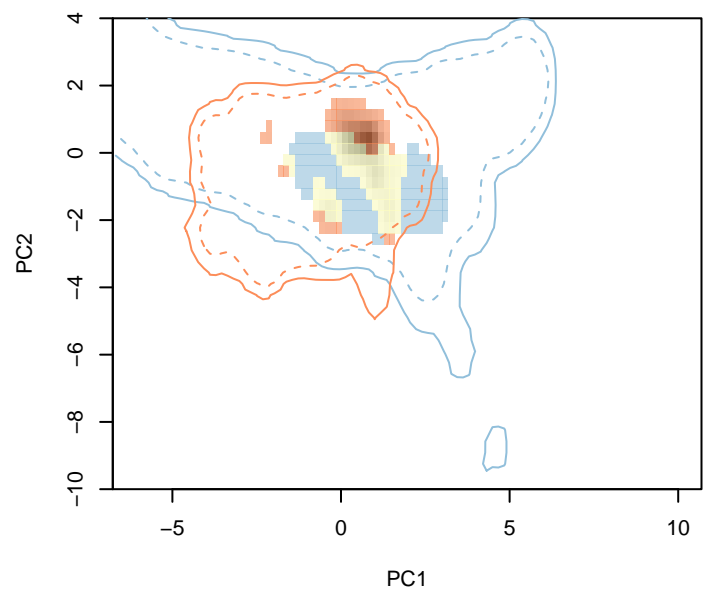
Rumex pseudonatronatus



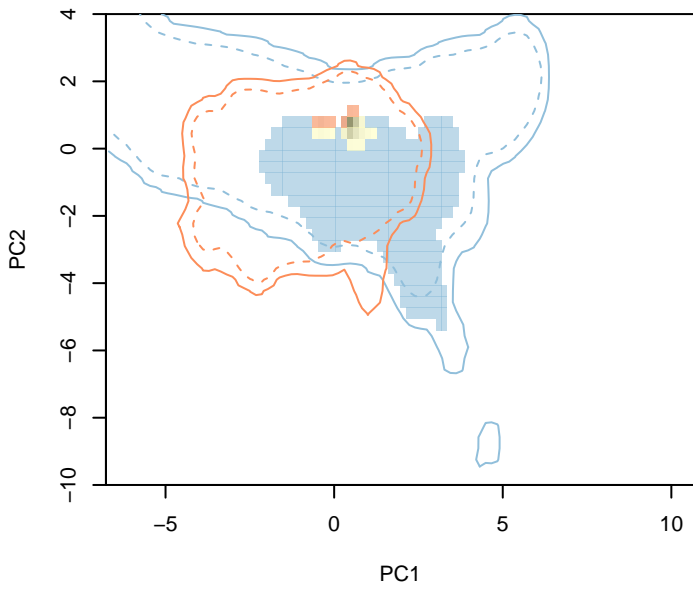
Salix elaeagnos



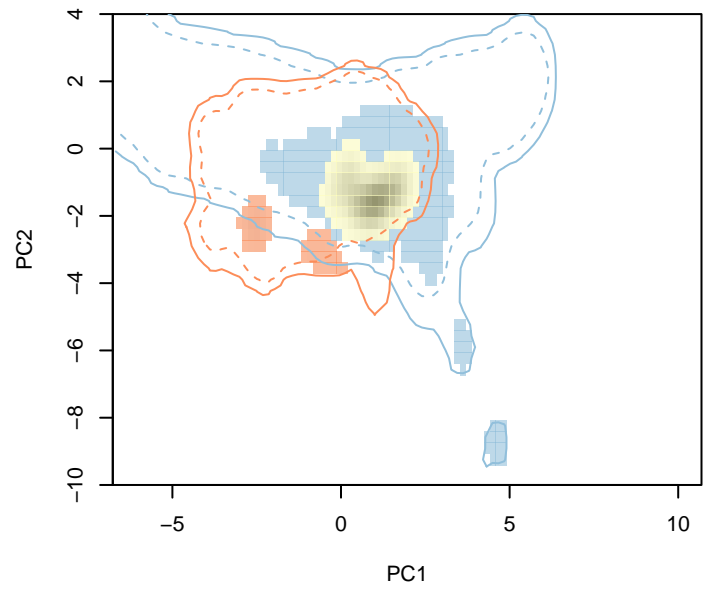
Saponaria ocymoides



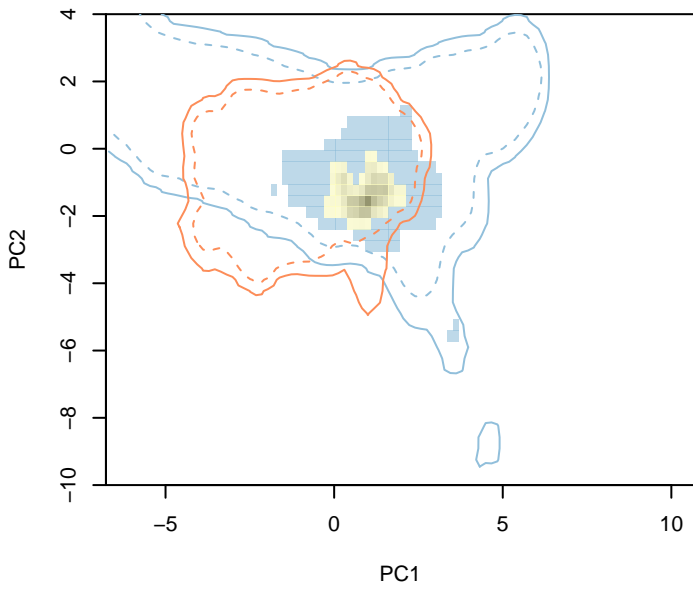
Sagina subulata



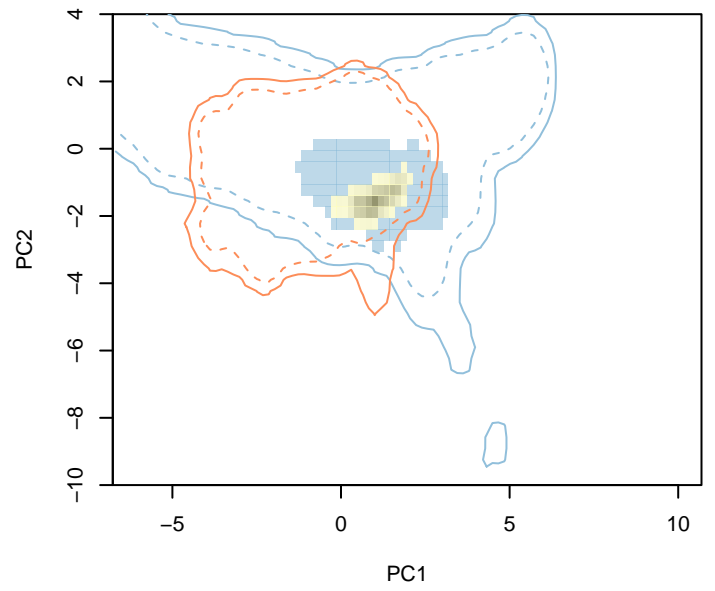
Sedum reflexum



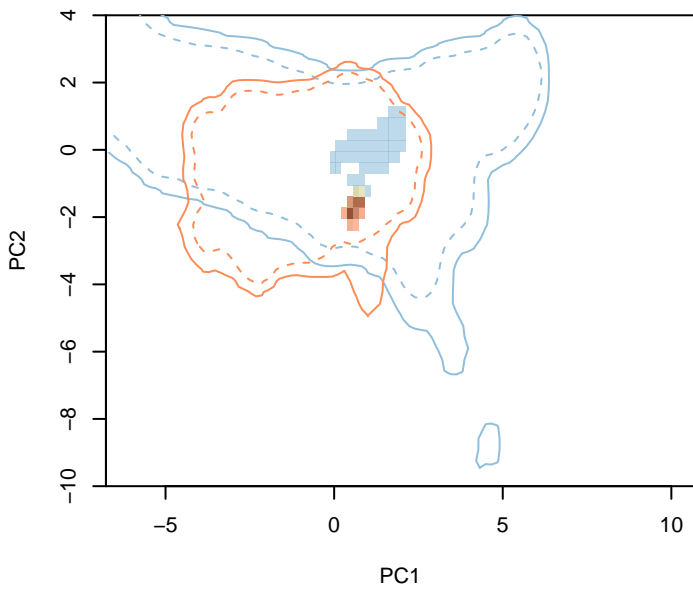
Sedum sexangulare



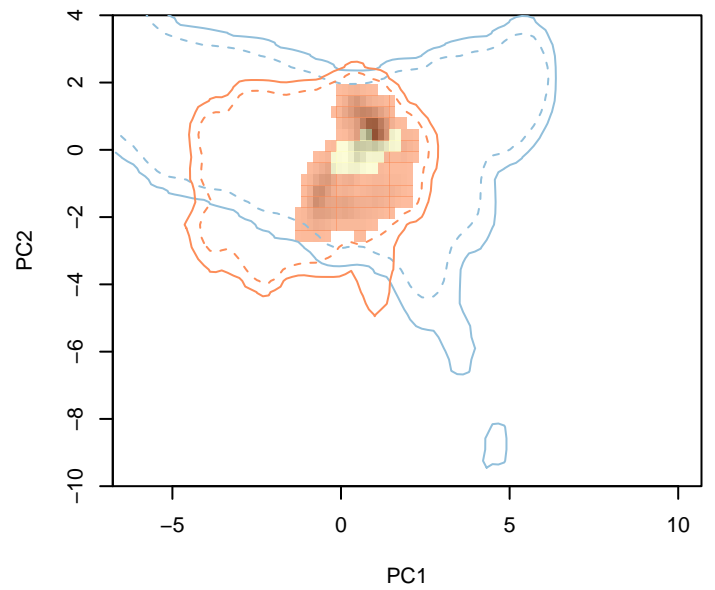
Sempervivum tectorum



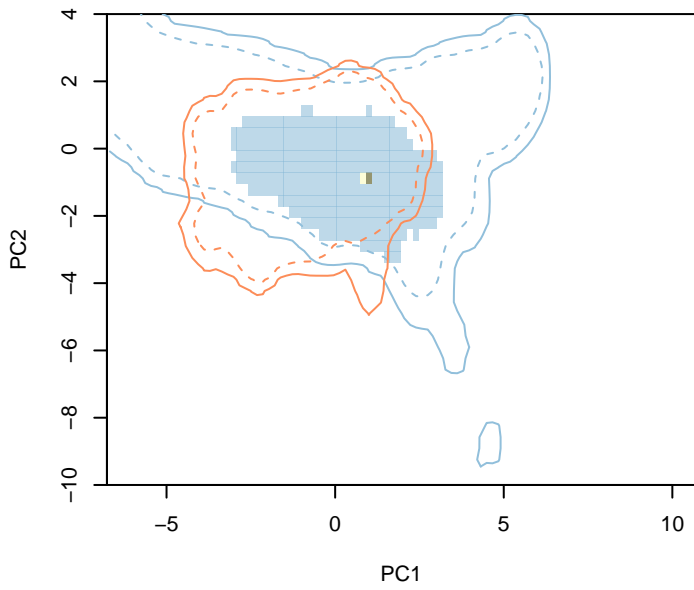
Silene chlorantha



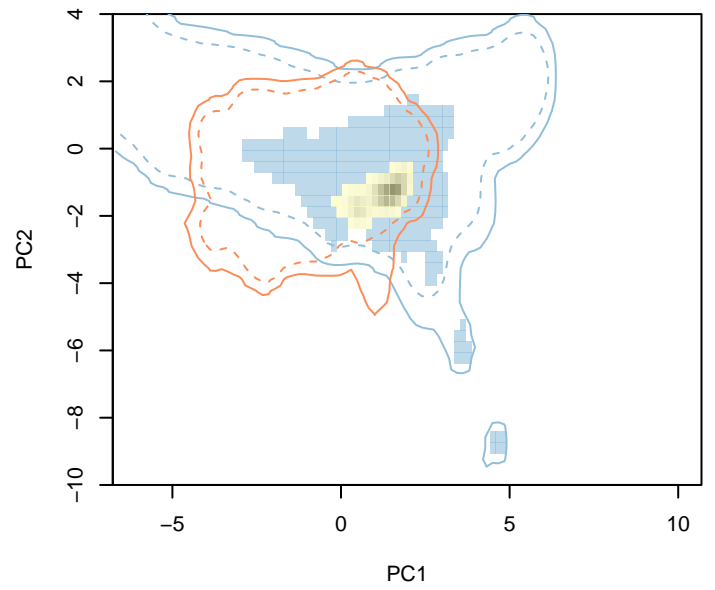
Silene csereii



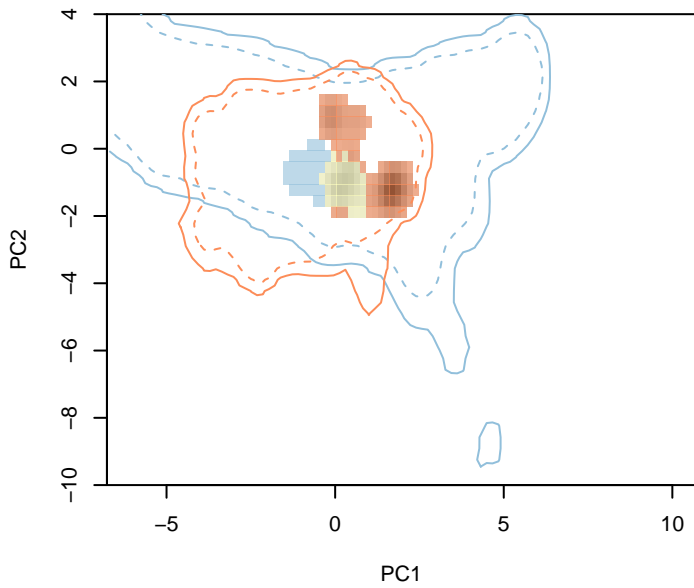
Silene italica



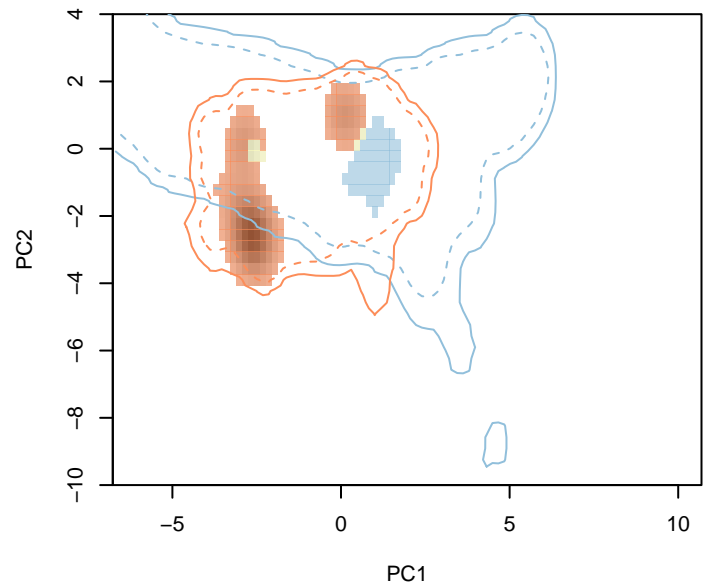
Silene nutans



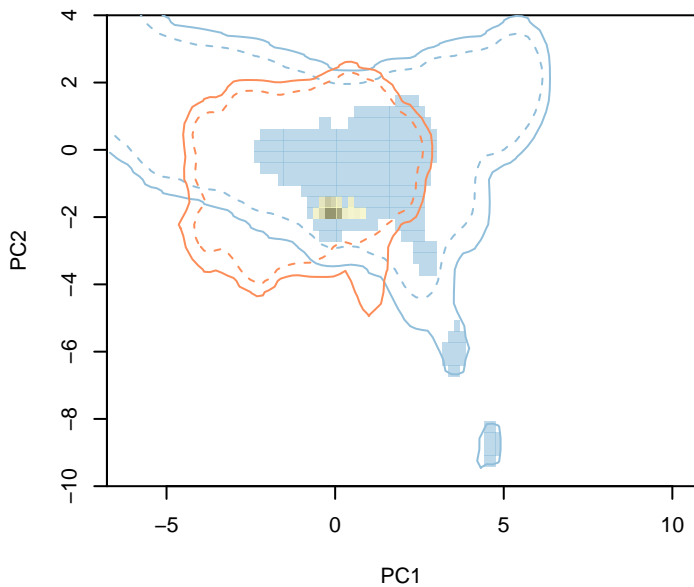
Silene pendula



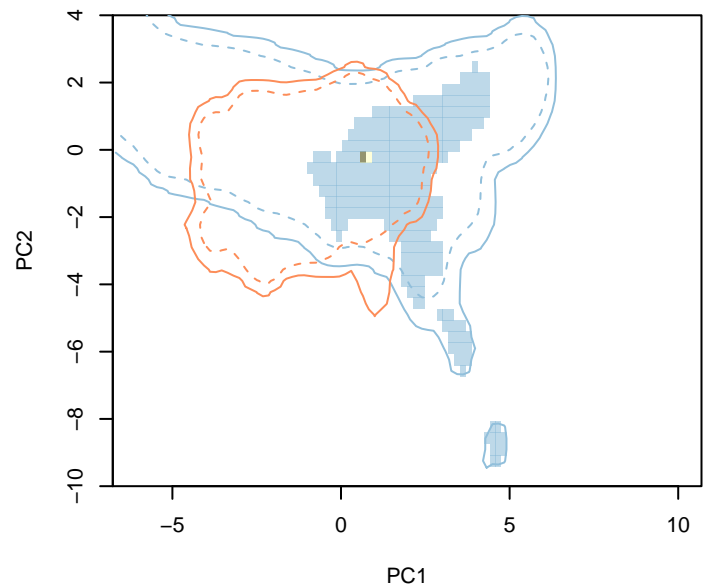
Spergularia echinosperma



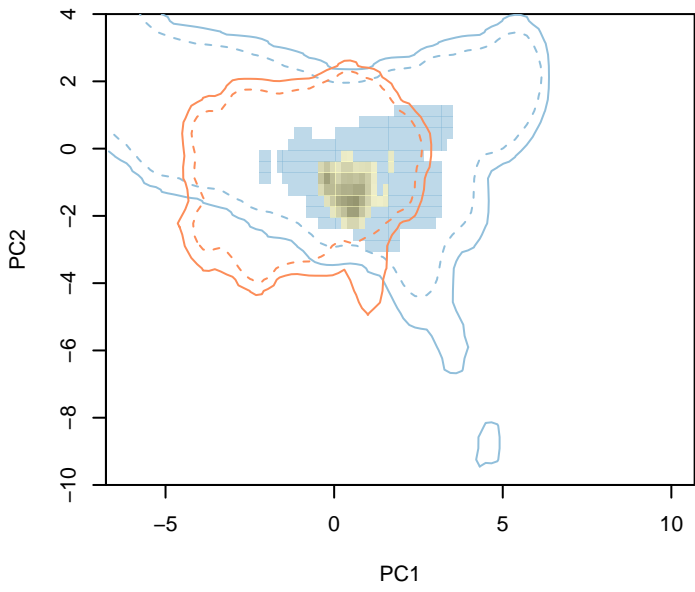
Spergula morisonii



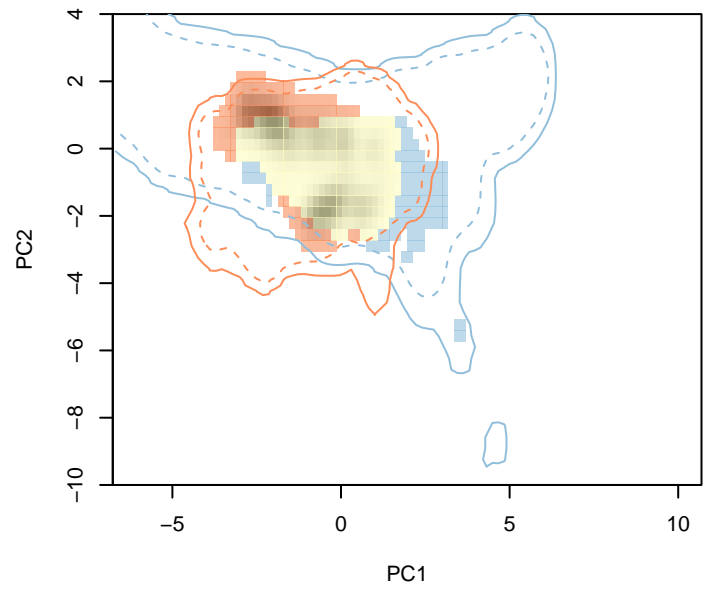
Stellaria palustris



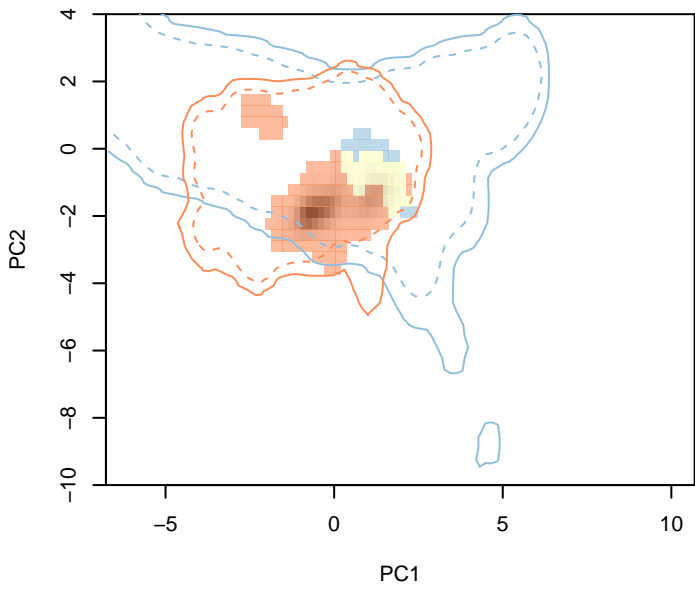
Thalictrum aquilegifolium



Ulmus procera



Dianthus plumarius



Cerastium tomentosum

