

Appendix C – *introgress* analysis

In order to examine the rate of introgression at each microsatellite loci, we performed this analysis in the *R*-package ‘*introgress*’ (Gompert and Buerkle 2009; 2010). All known offspring were used in this analysis, not just the recruits included in each cohort. Parentage of each offspring was determined from a reconstructed pedigree.

The results show that individuals introgressed among most loci. Output figures from *introgress* can be found below, one showing the mosaic of microsatellites per individuals and the predicted origin of the allele (Fig.1). The high rate of introgression may have been affected by a high rate of similar alleles present in both populations, although genetically differentiated ($F_{ST}=0.0172$). The other shows each microsatellite locus, and the result of introgression compared to a null model (Fig. 2).

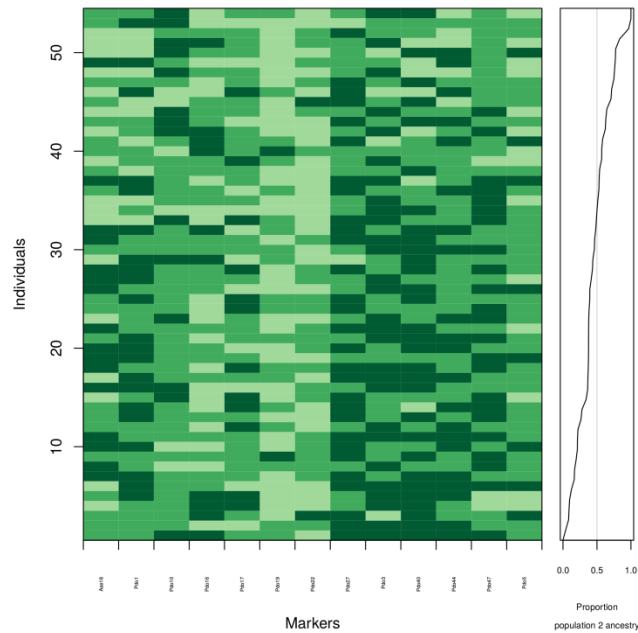
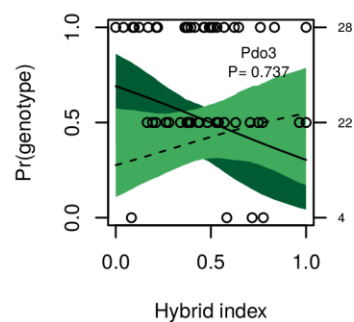
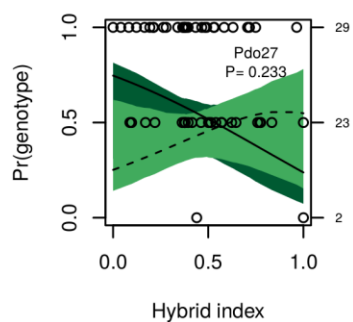
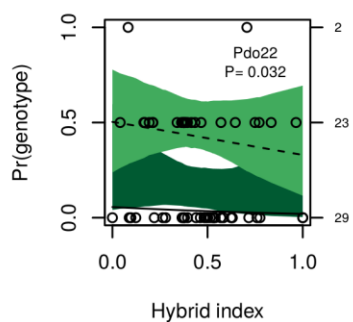
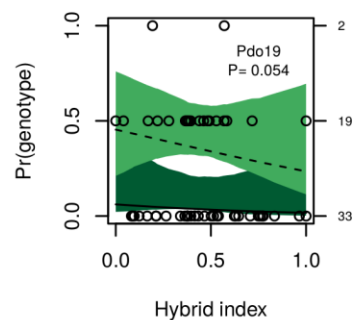
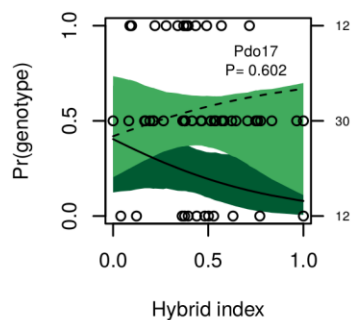
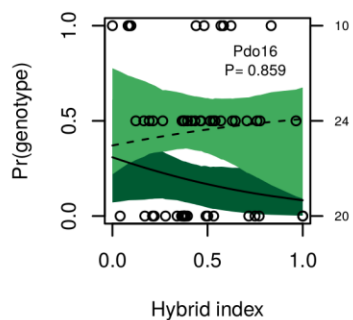
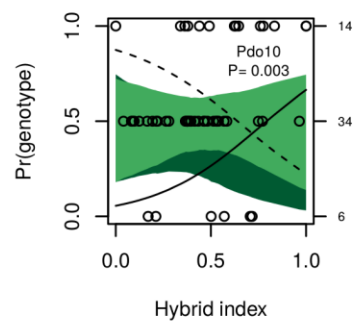
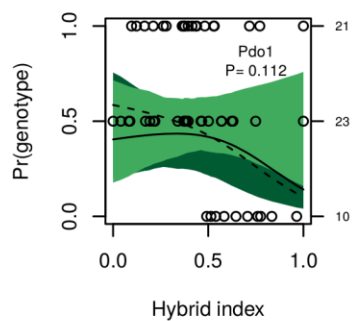
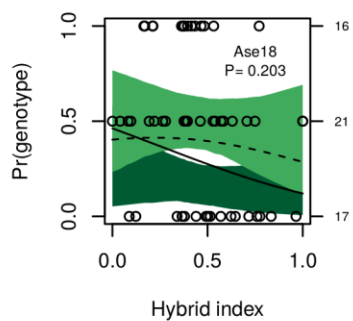


Figure 1. All known offspring ($n = 54$) from parents either translocated or residents in 2002. Dark green colour represents contribution from the source population, mid-green represents intermixed contribution and light green represents contribution from the resident population.



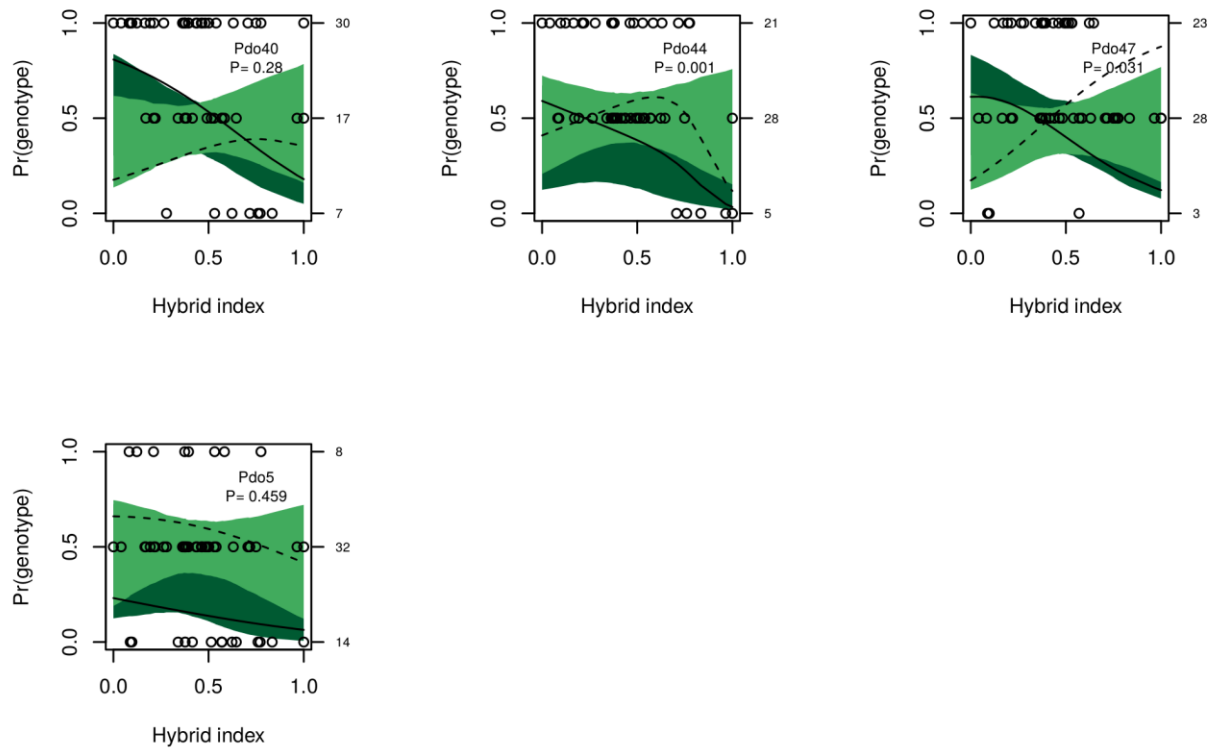


Figure 2. Clines for each microsatellite loci ($n = 13$).

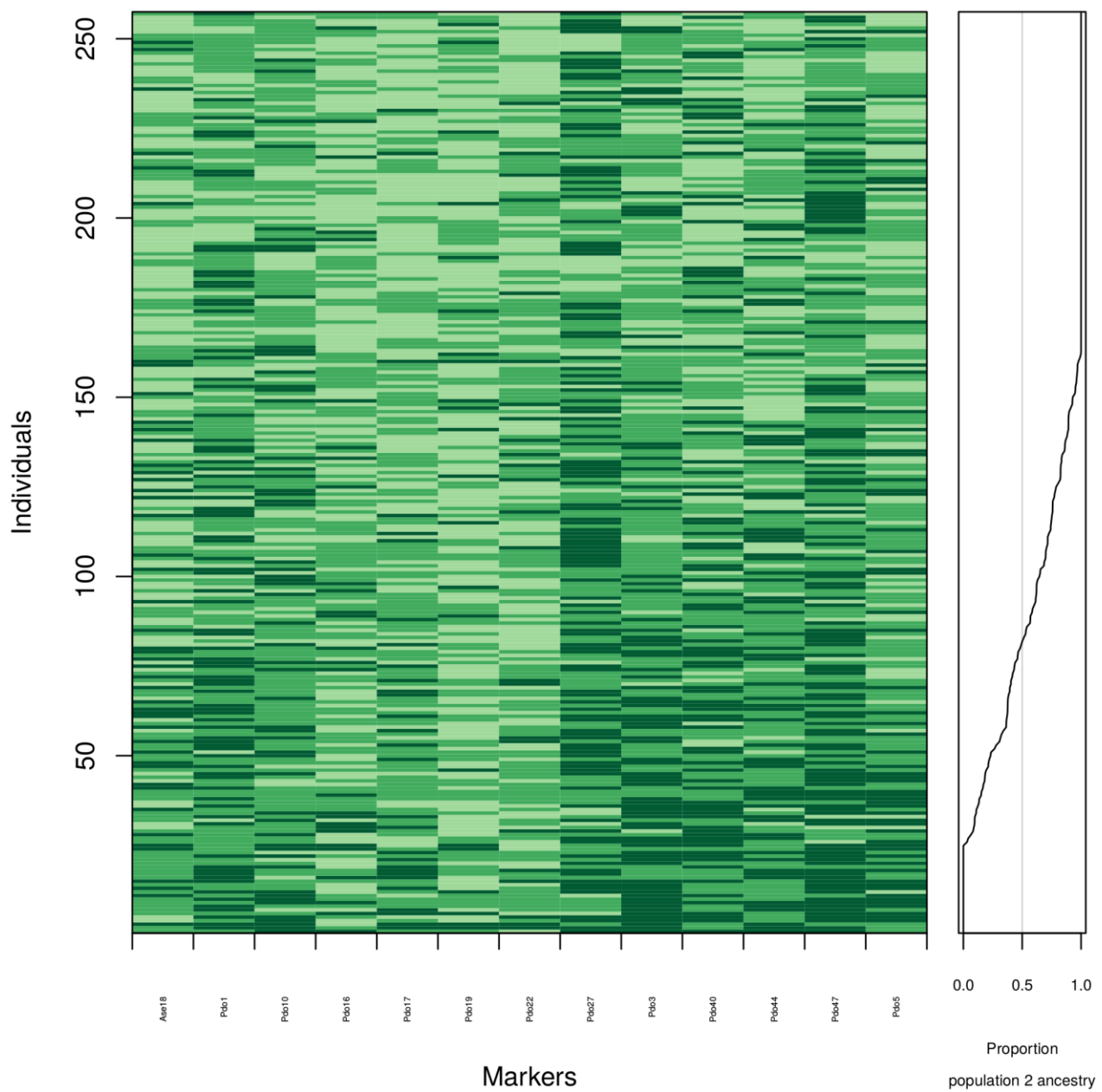
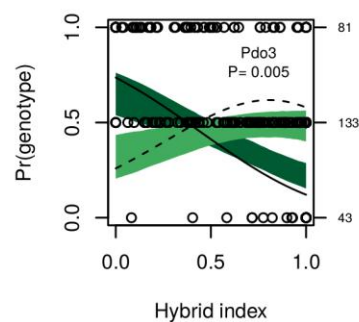
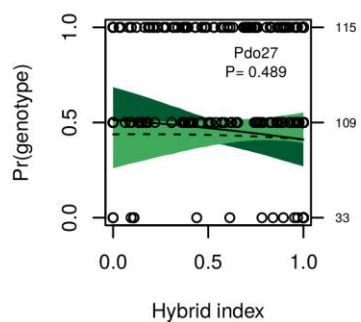
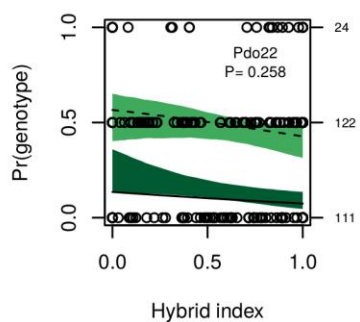
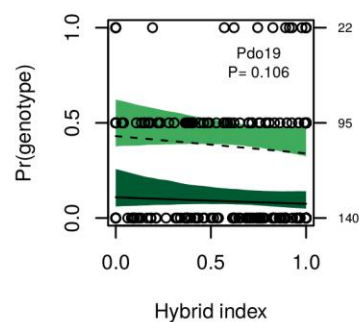
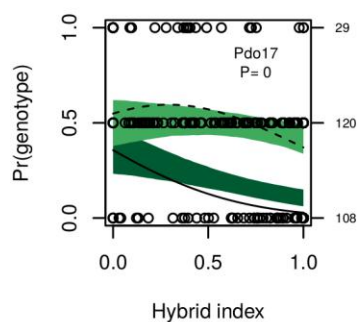
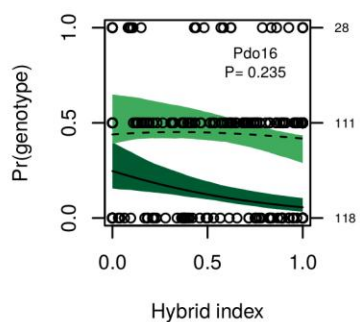
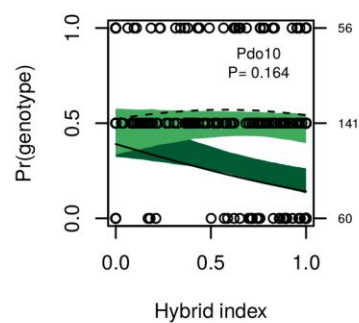
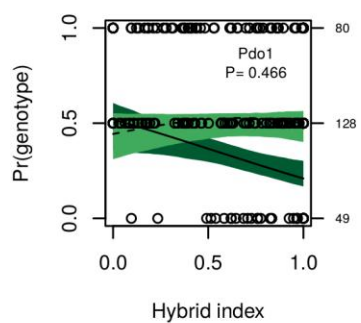
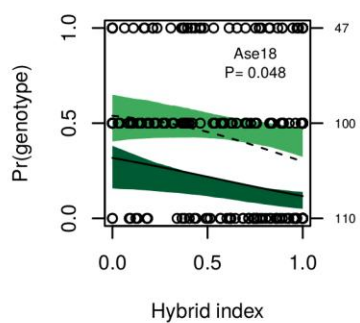


Figure 3. All known offspring ($n = 257$) from parents from 2002. Dark green colour represents contribution from the source population, mid-green represents intermixed contribution and light green represents contribution from the resident population.



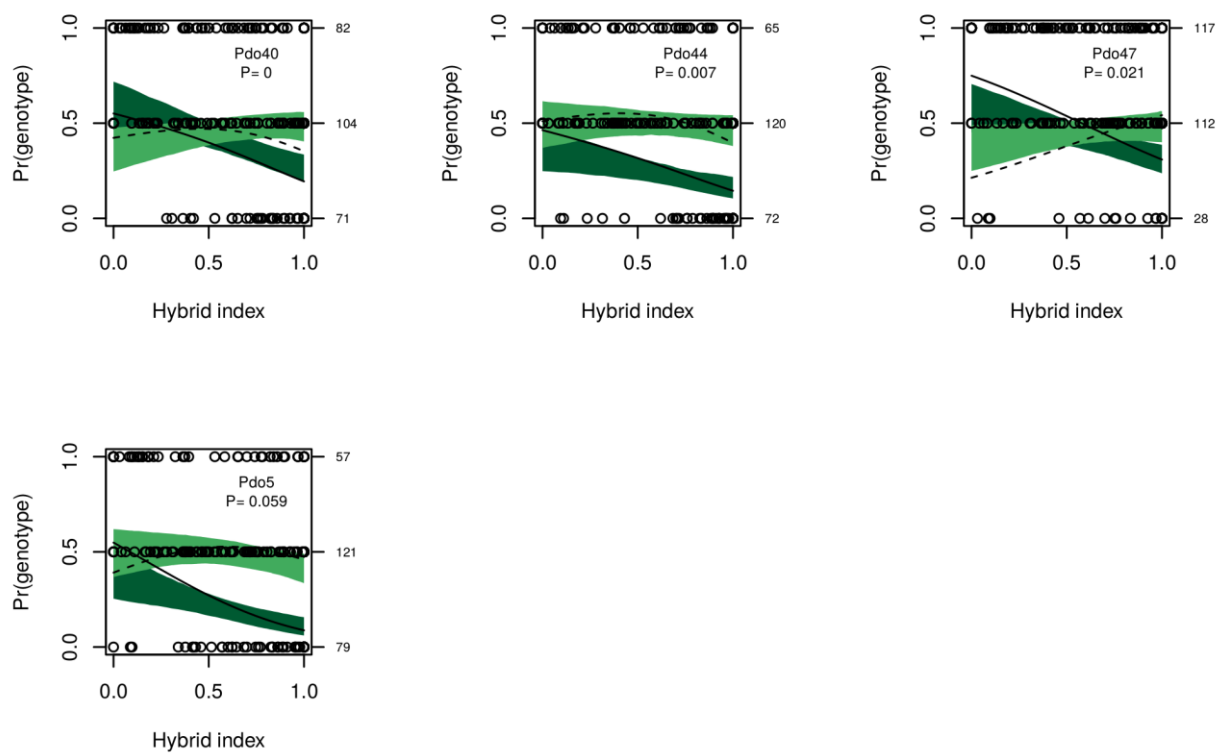


Figure 4. Clines for each microsatellite loci ($n = 13$).

References

Gompert Z, Buerkle CA (2009) A powerful regression-based method for admixture mapping of isolation across the genome of hybrids. *Mol. Ecol.* 18, 1207–1224.

Gompert Z, Buerkle CA (2010) INTROGRESS: a software package for mapping components of isolation in hybrids. *Mol. Ecol. Res.* 10, 378–384