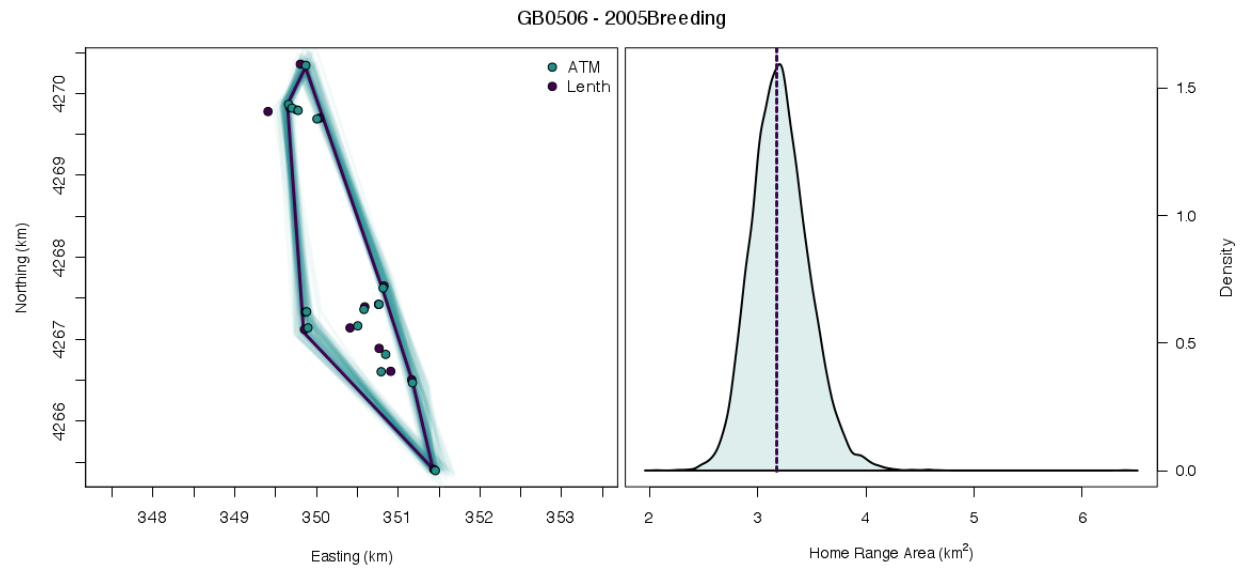


Appendix 7

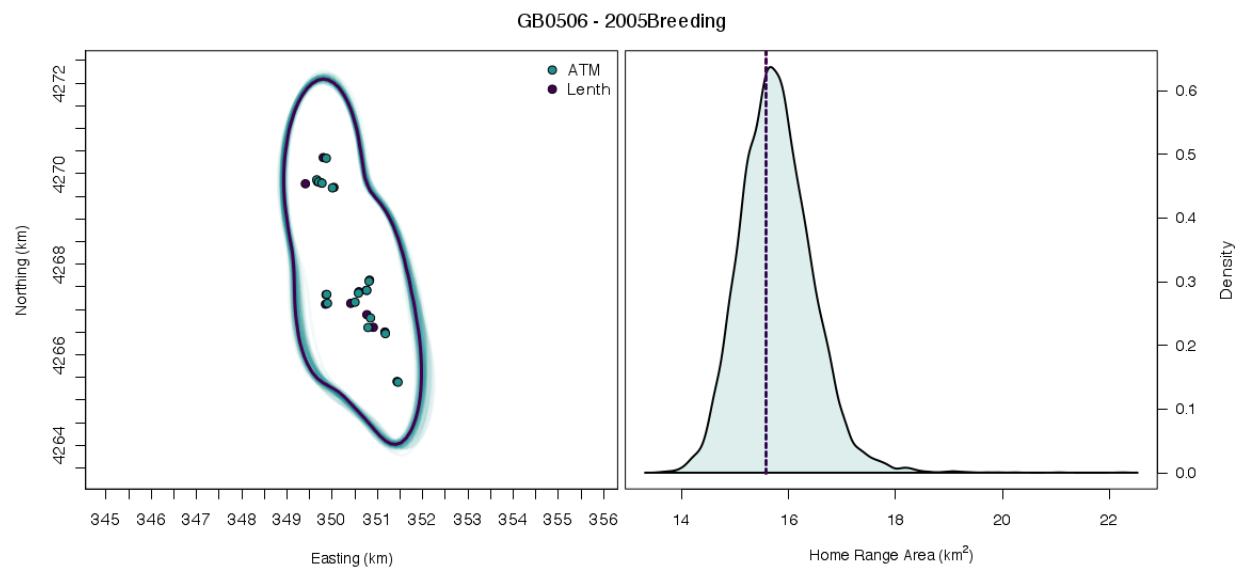
October 30, 2017

Home Range

For six individual Gunnison sage-grouse, we estimate home range for two seasons (Breeding and Summer) across multiple years. For each figure below, home range area estimates for sage-grouse are estimated via convex hull (top plot) and kernel estimation (bottom plot) where spatial location uncertainty is incorporated via the azimuthal telemetry model (ATM) or ignored using Lenth (1981) estimation. Right-sided figures depict a histogram of the posterior distribution of the area of the home range when accounting for animal location uncertainty via the ATM; the vertical line is the point estimate of home range area when animal locations are estimated using Lenth (1981) estimation and location uncertainty is ignored.

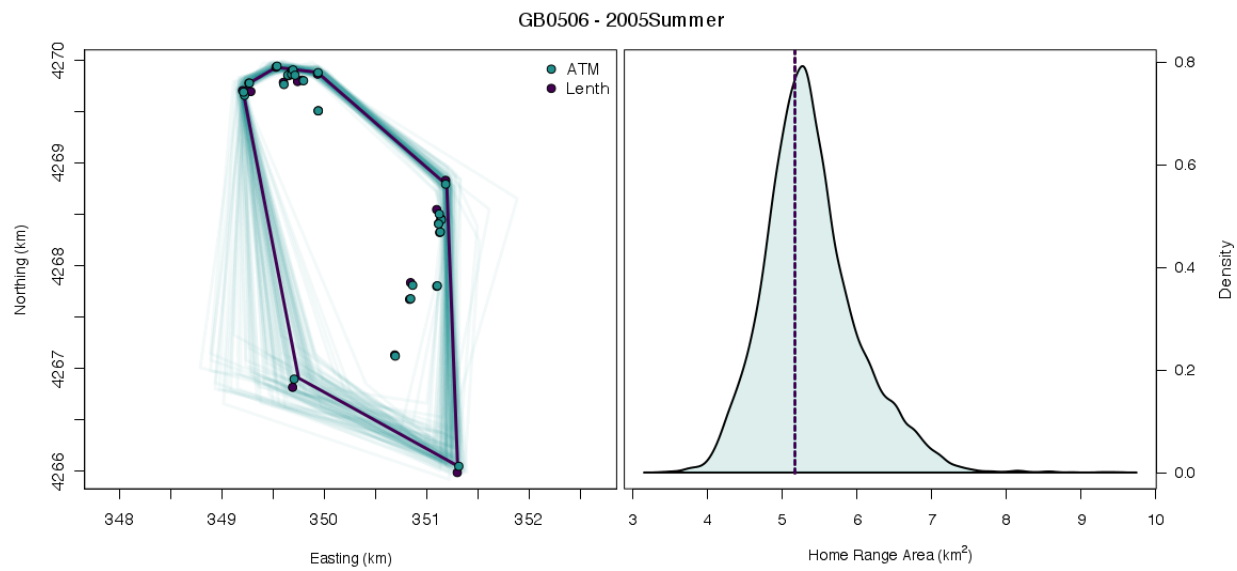


(a)

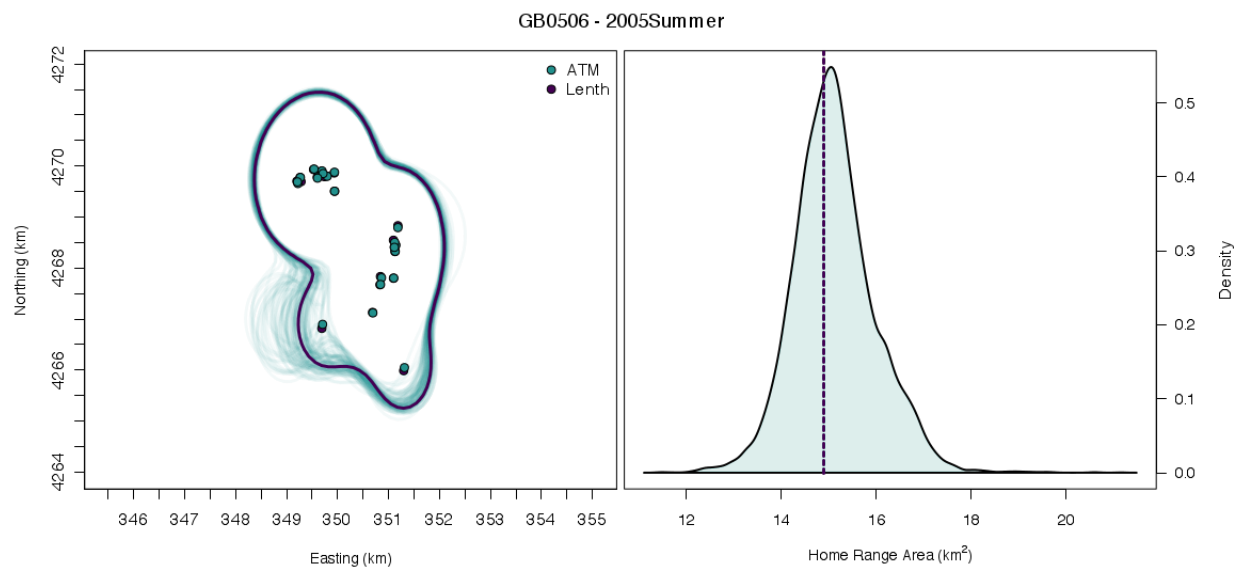


(b)

Figure 1



(a)



(b)

Figure 2

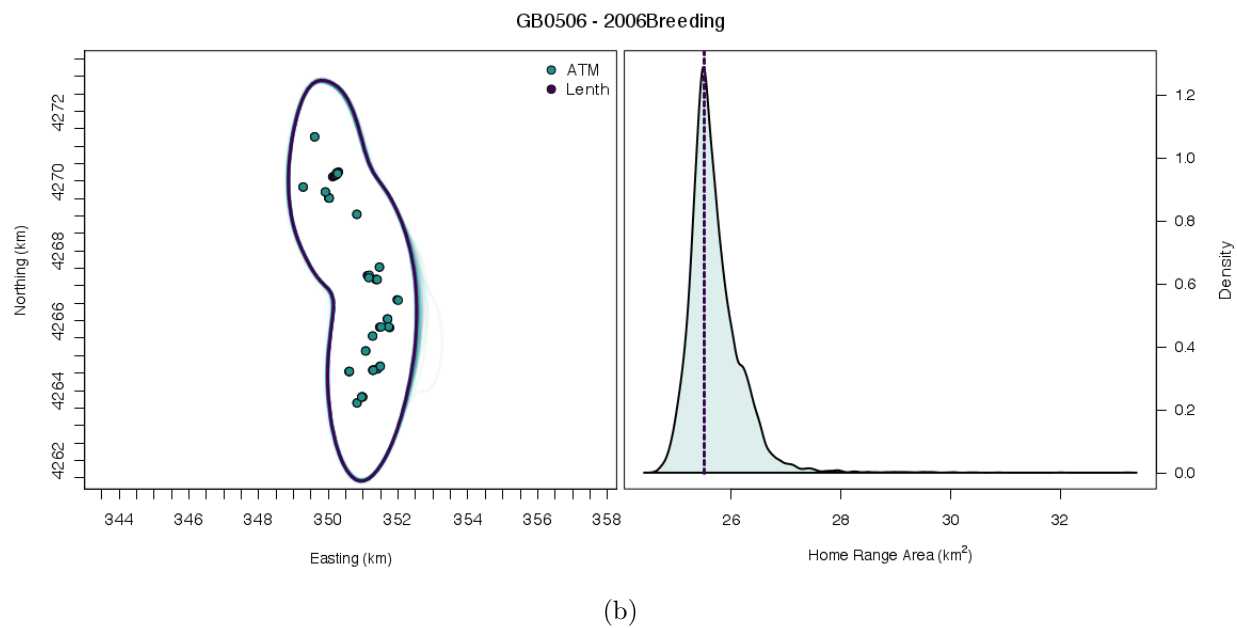
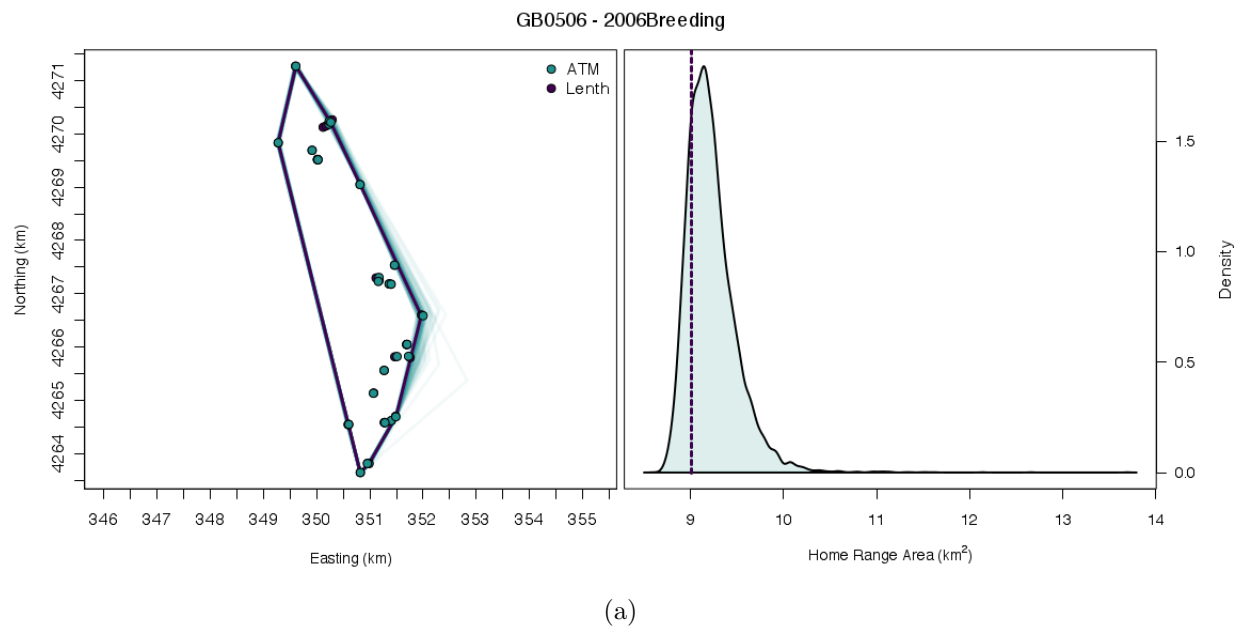
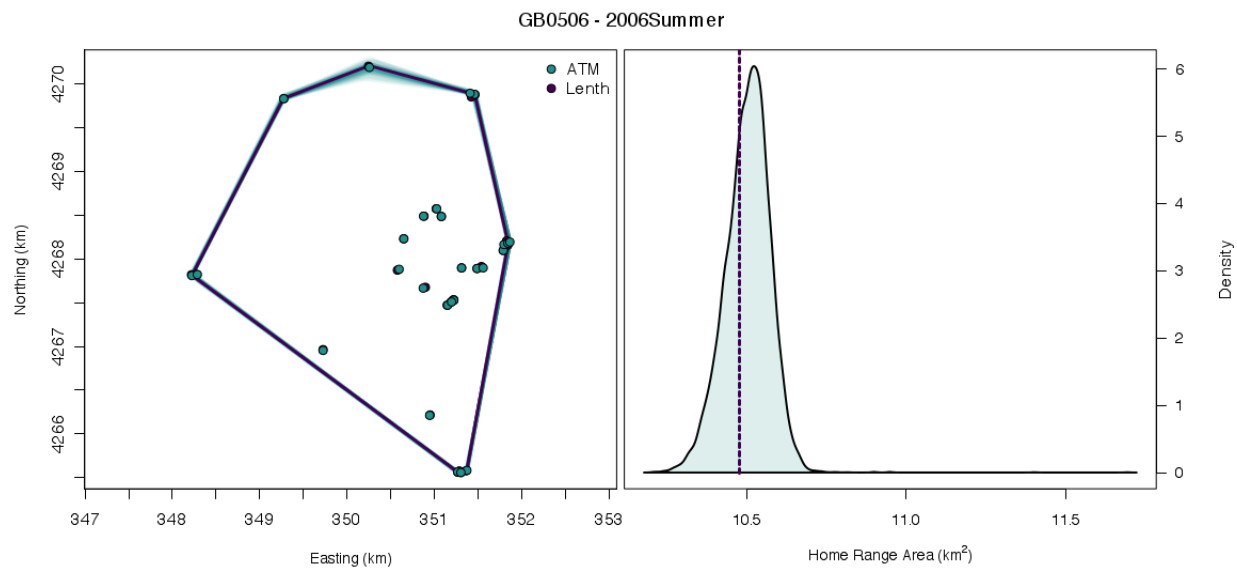
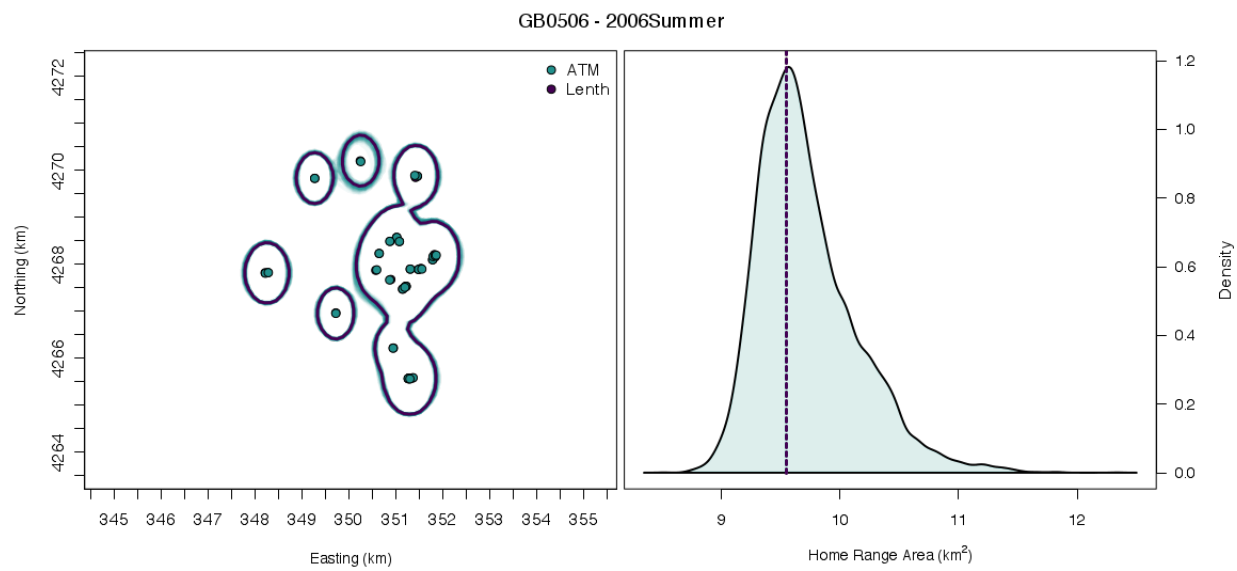


Figure 3



(a)



(b)

Figure 4

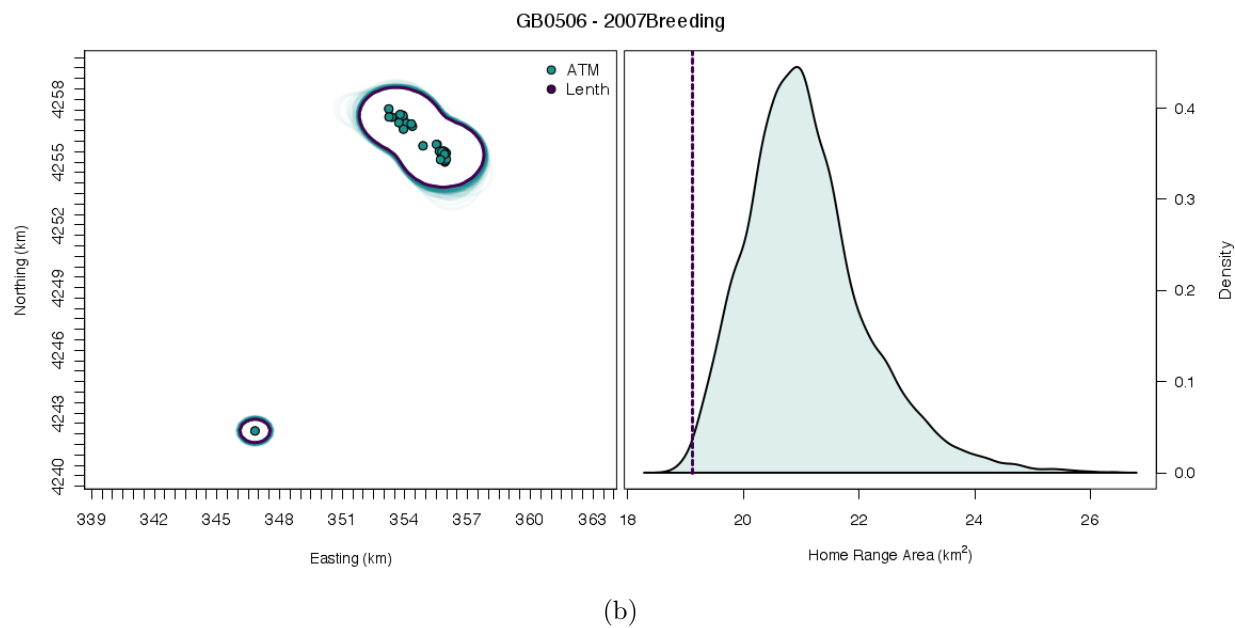
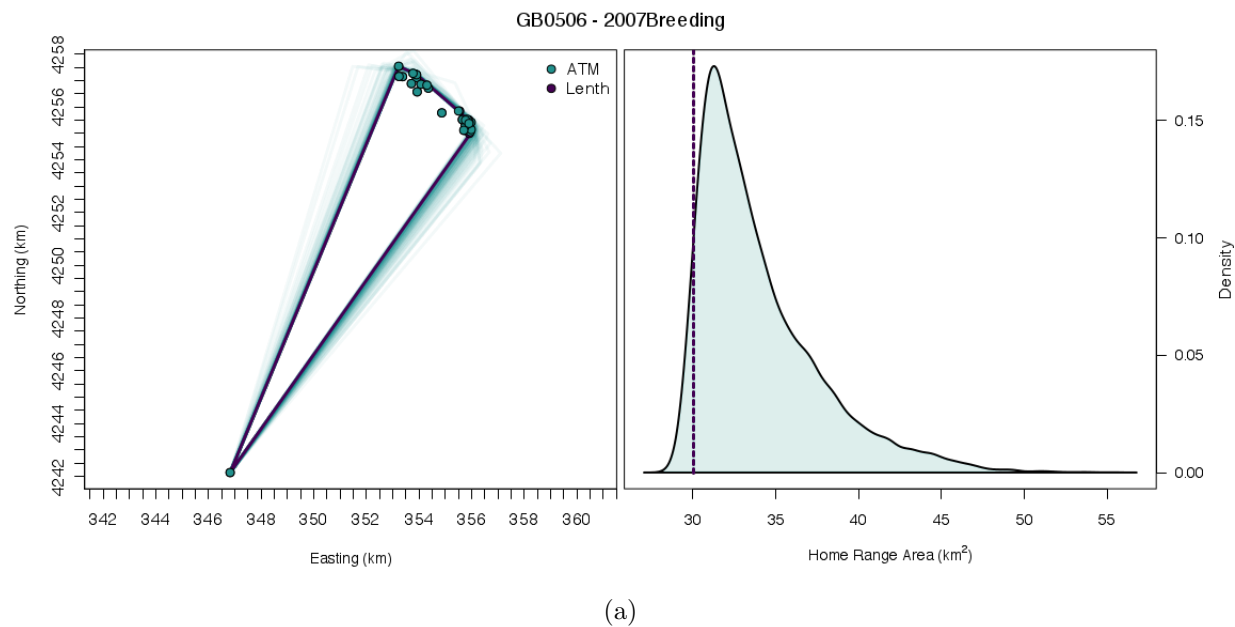
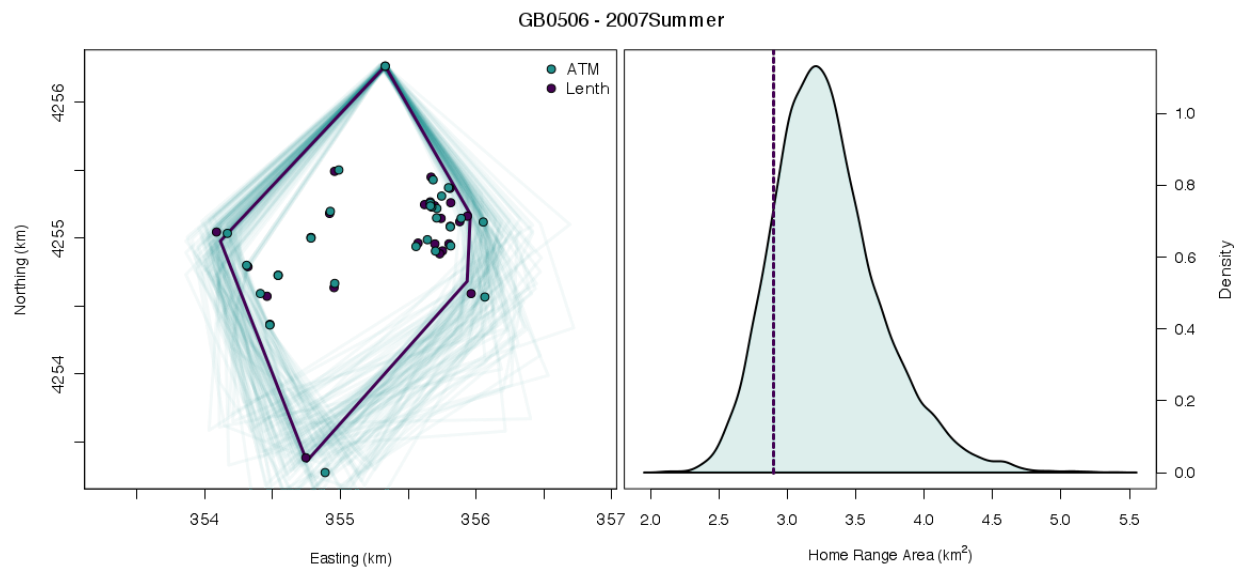
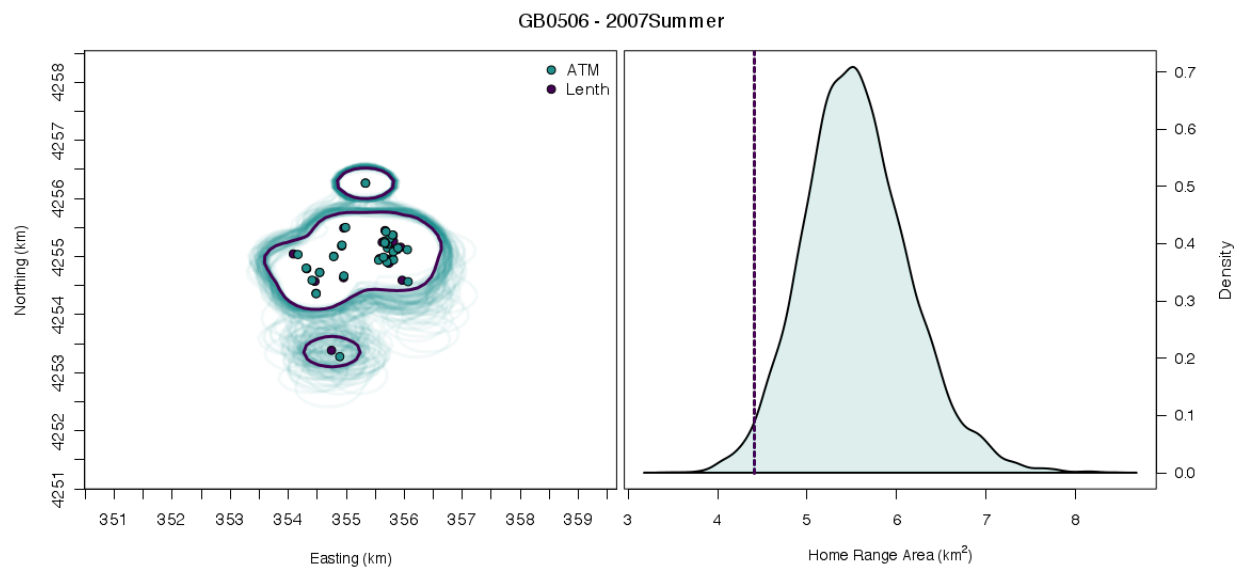


Figure 5

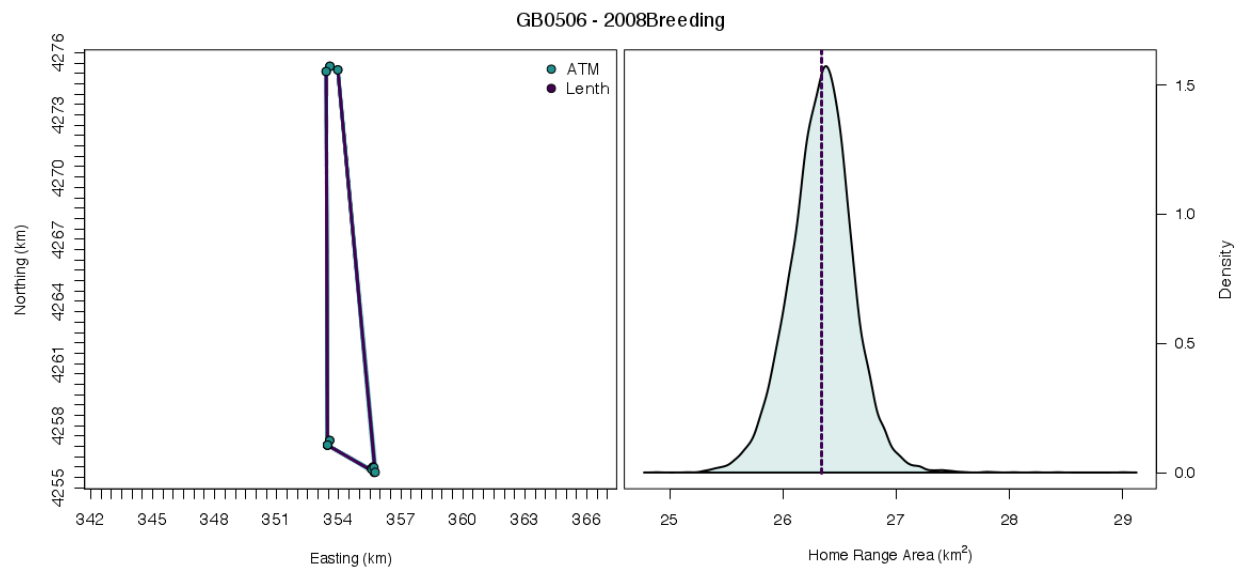


(a)

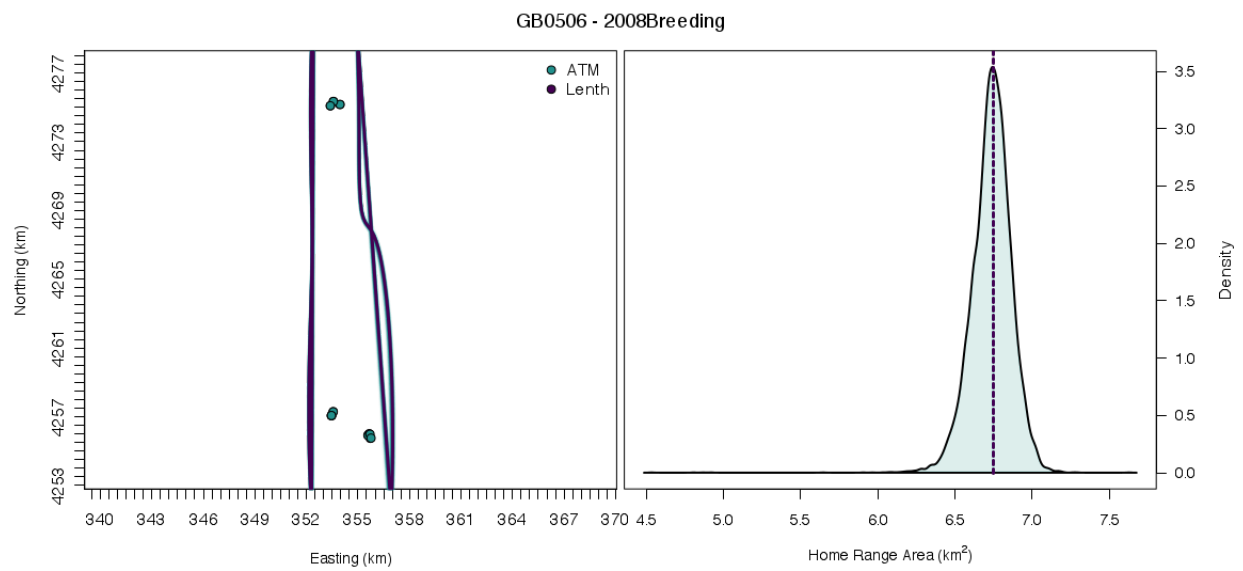


(b)

Figure 6

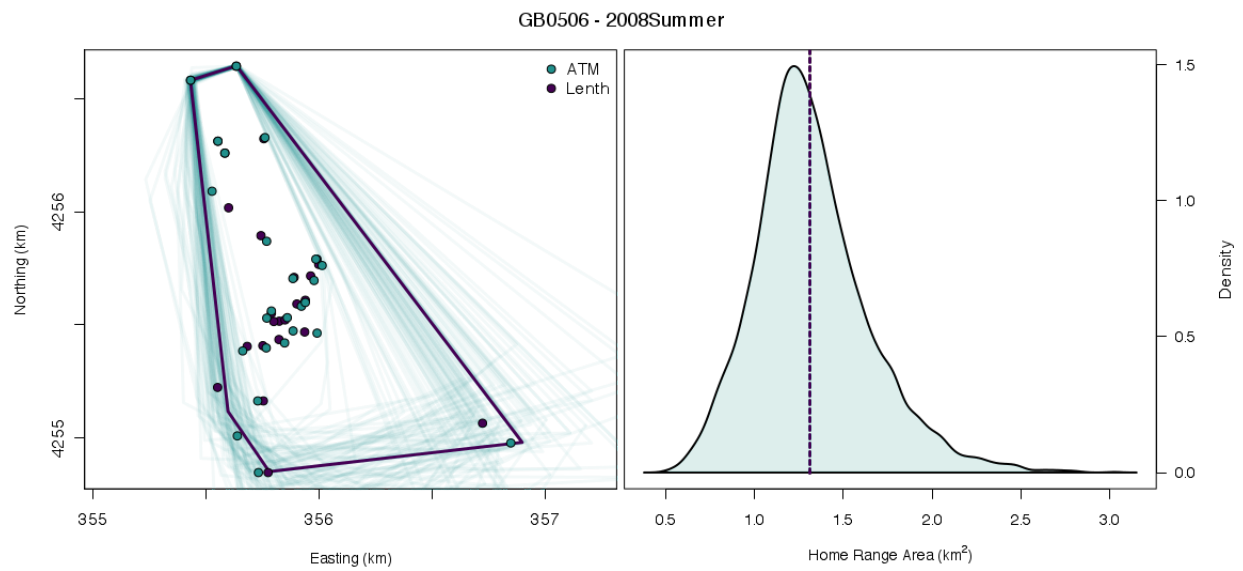


(a)

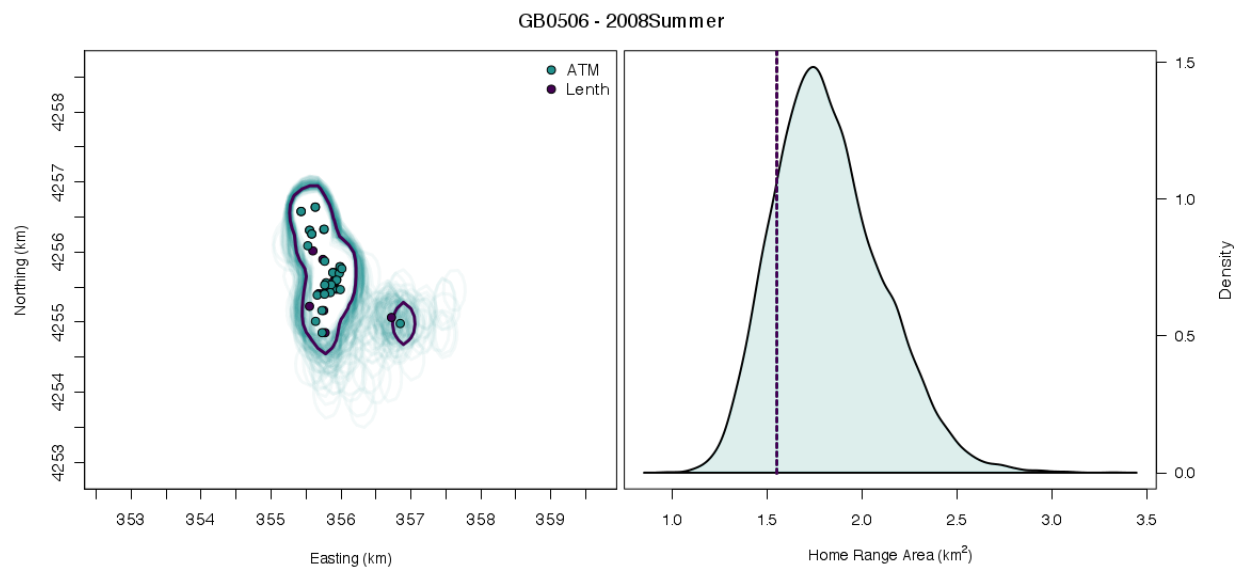


(b)

Figure 7

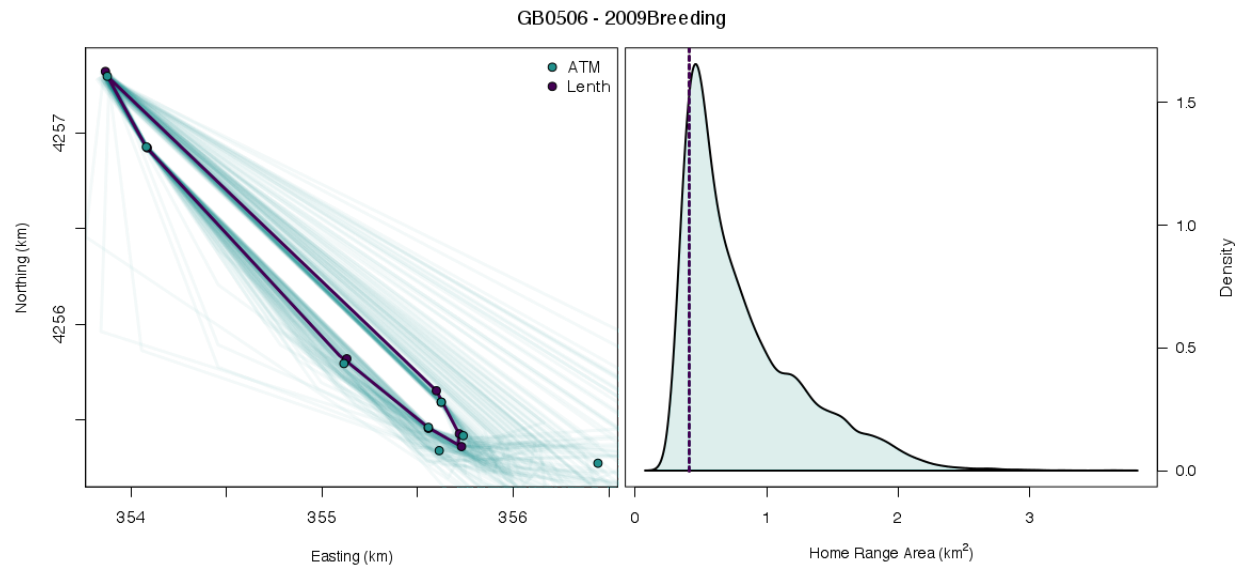


(a)

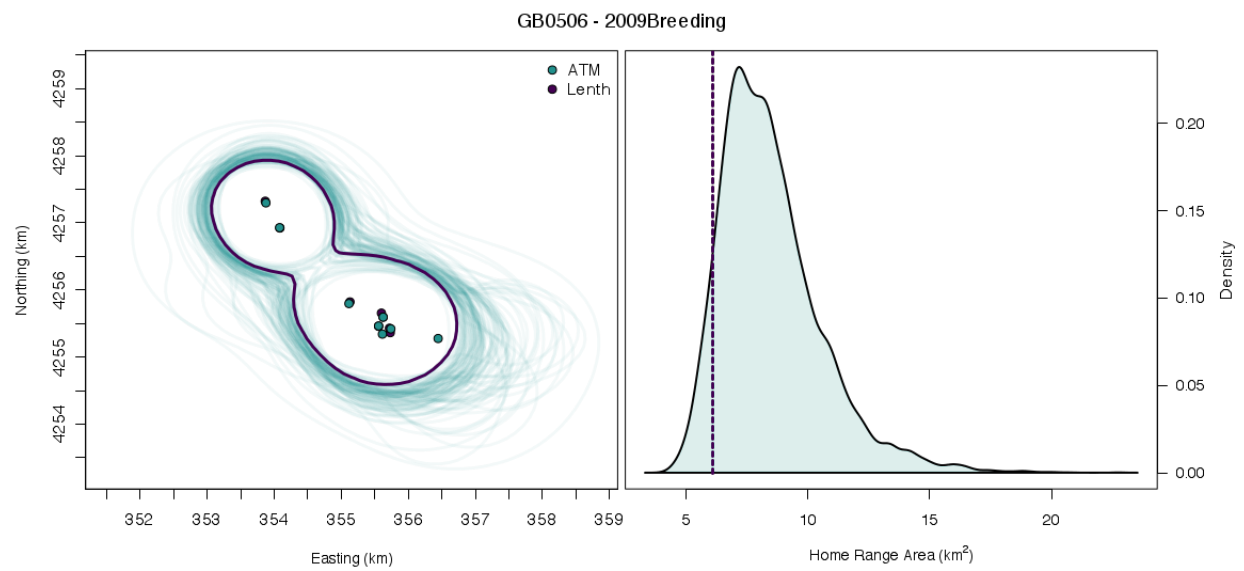


(b)

Figure 8



(a)



(b)

Figure 9

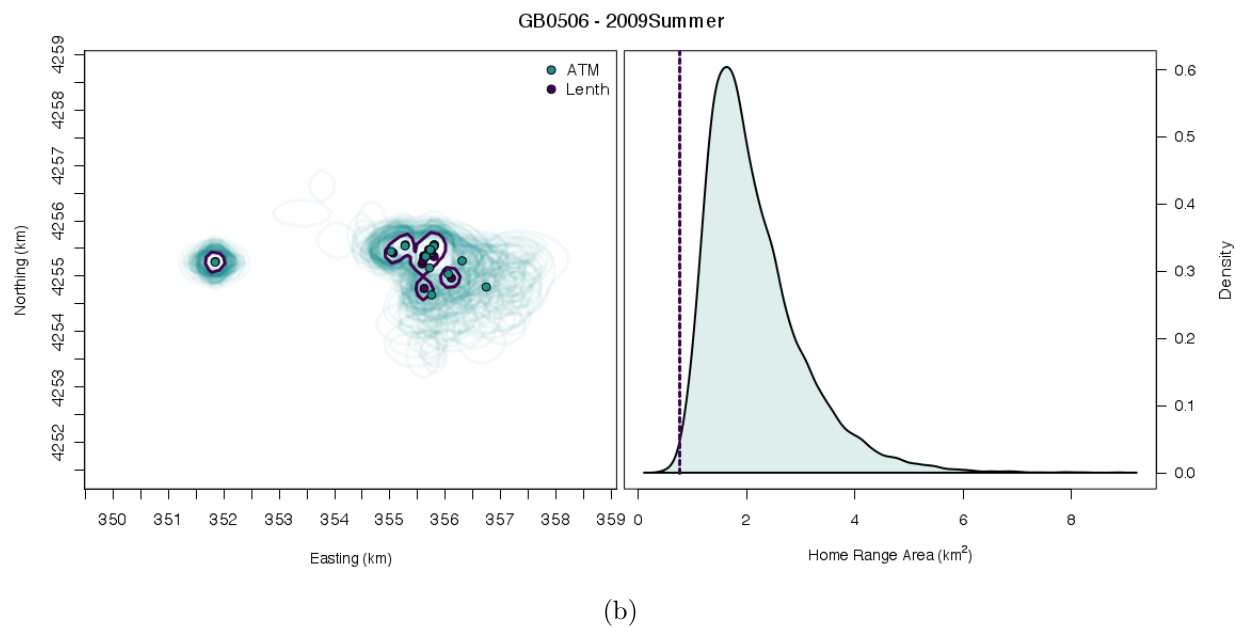
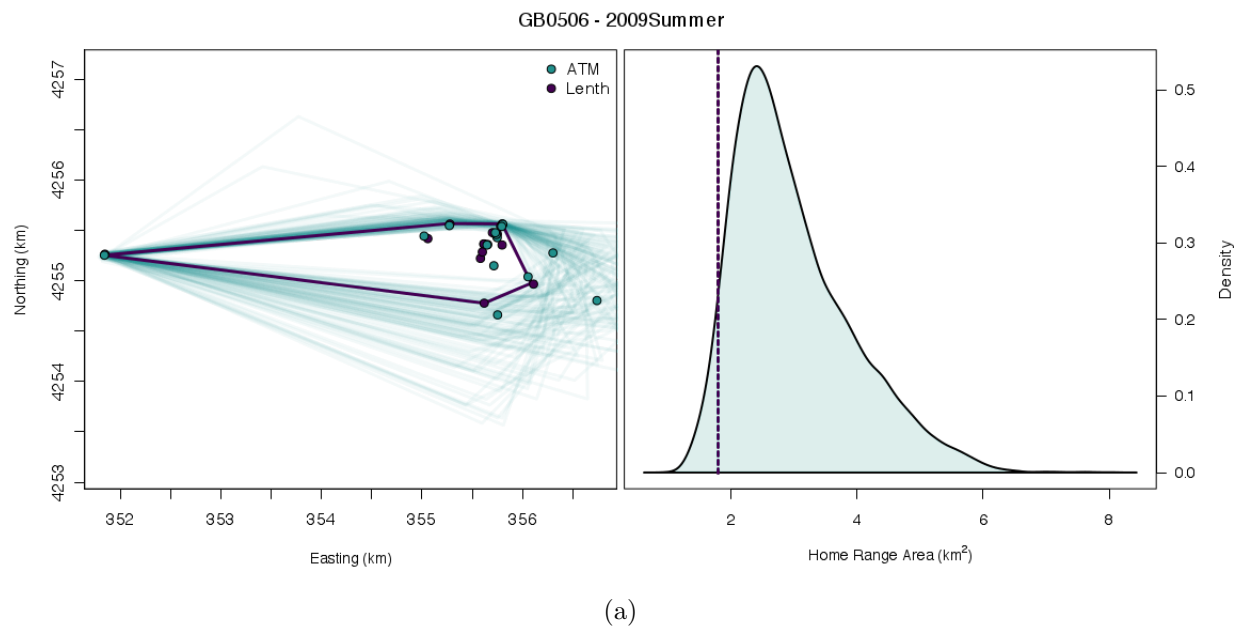
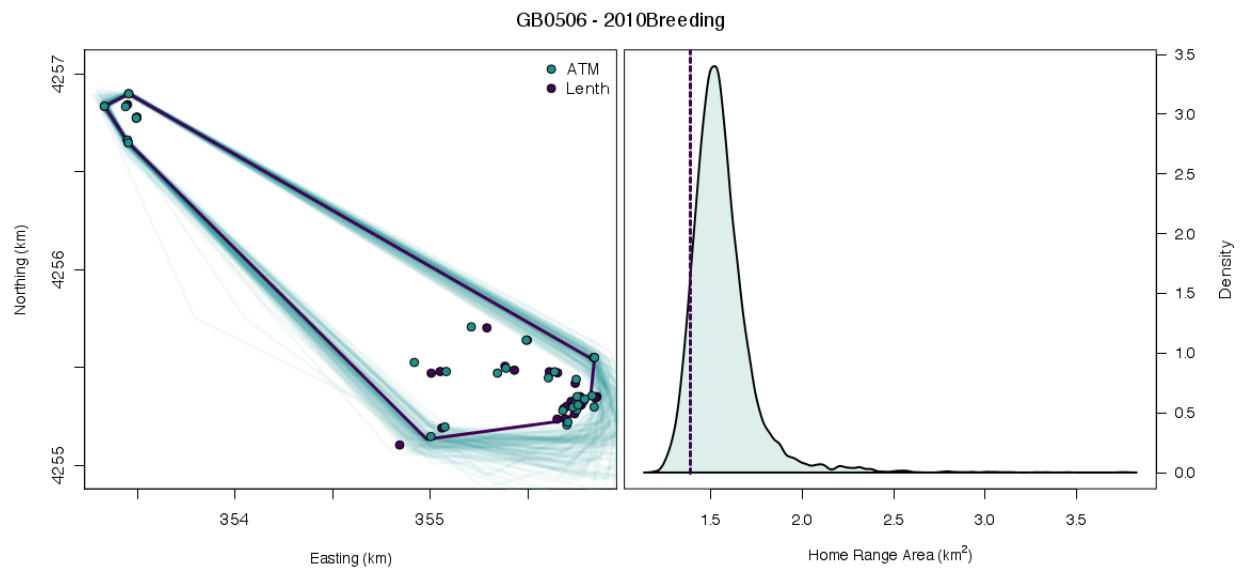
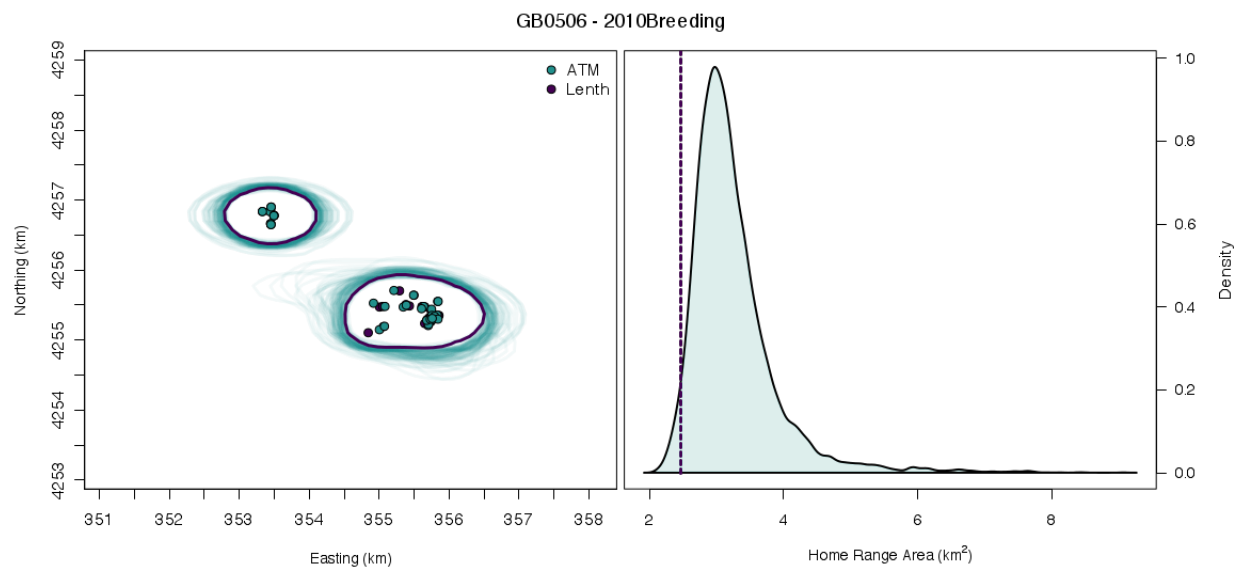


Figure 10



(a)



(b)

Figure 11

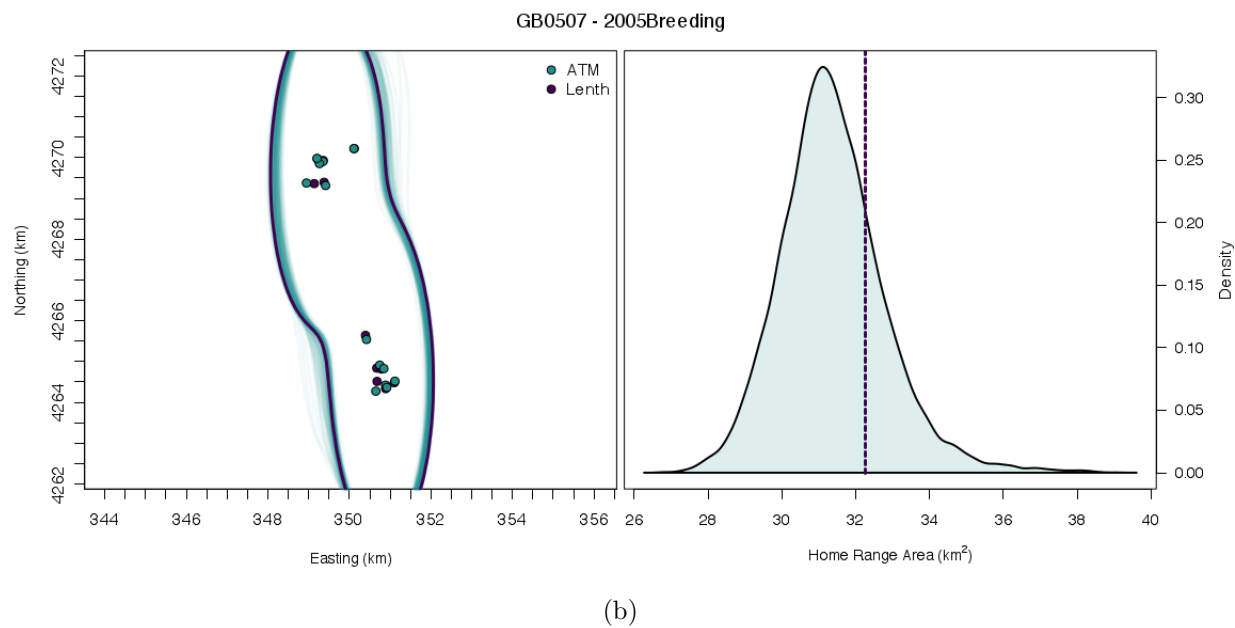
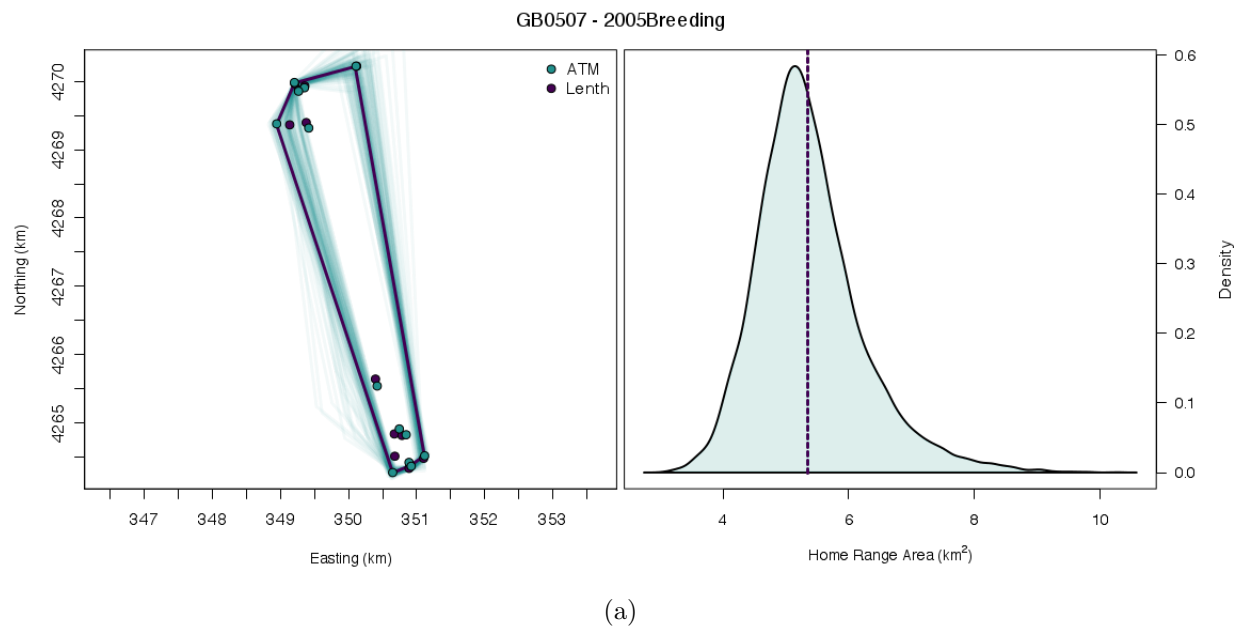
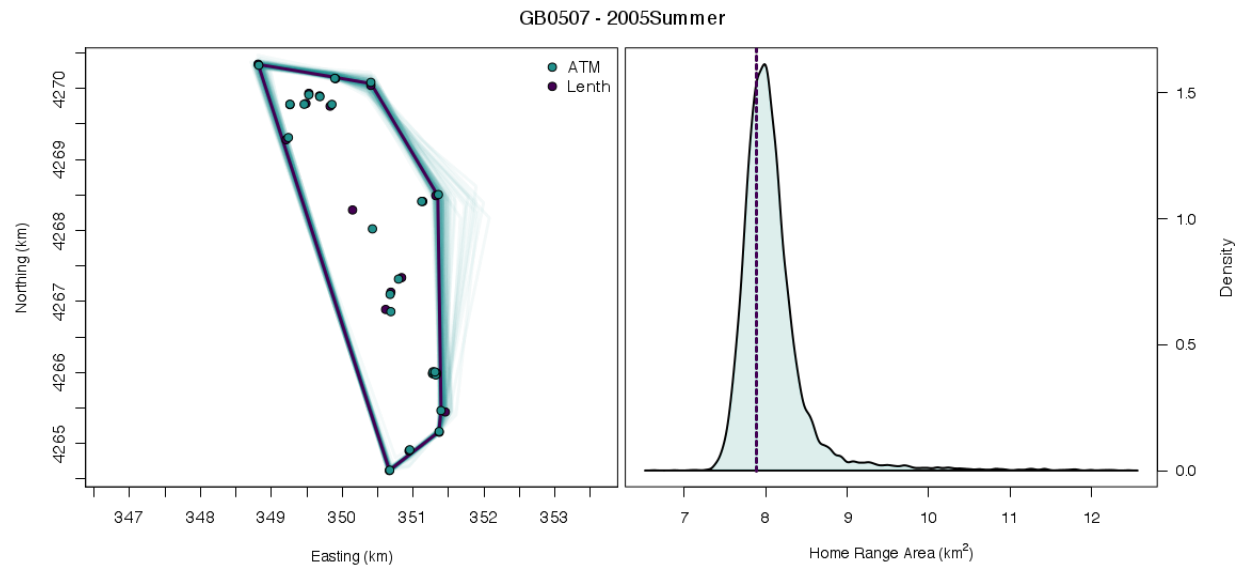
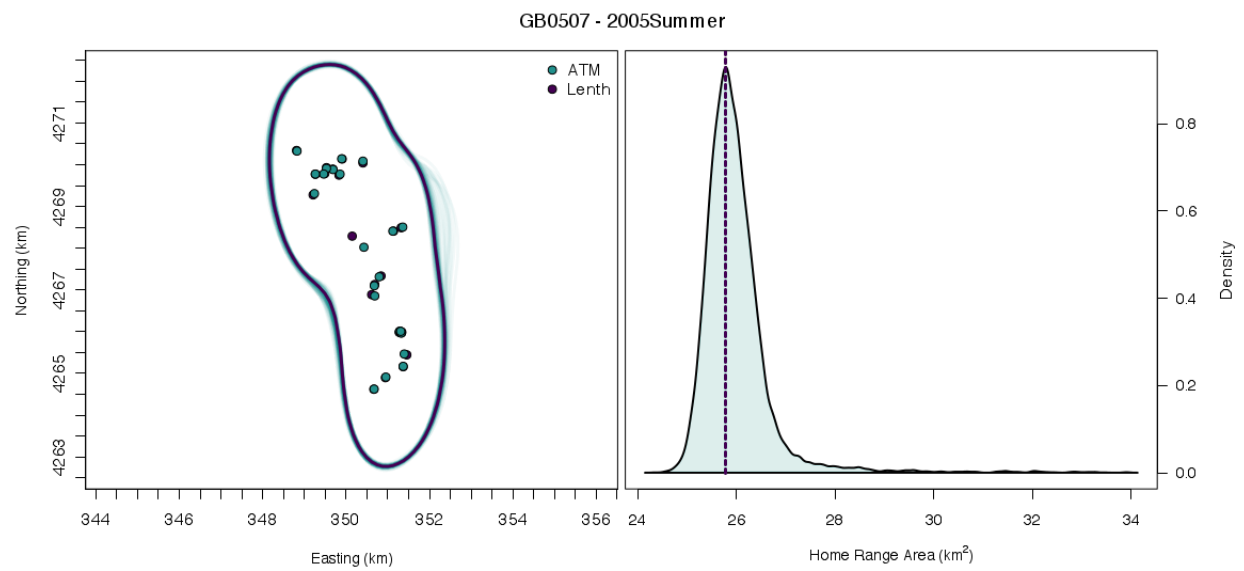


Figure 12

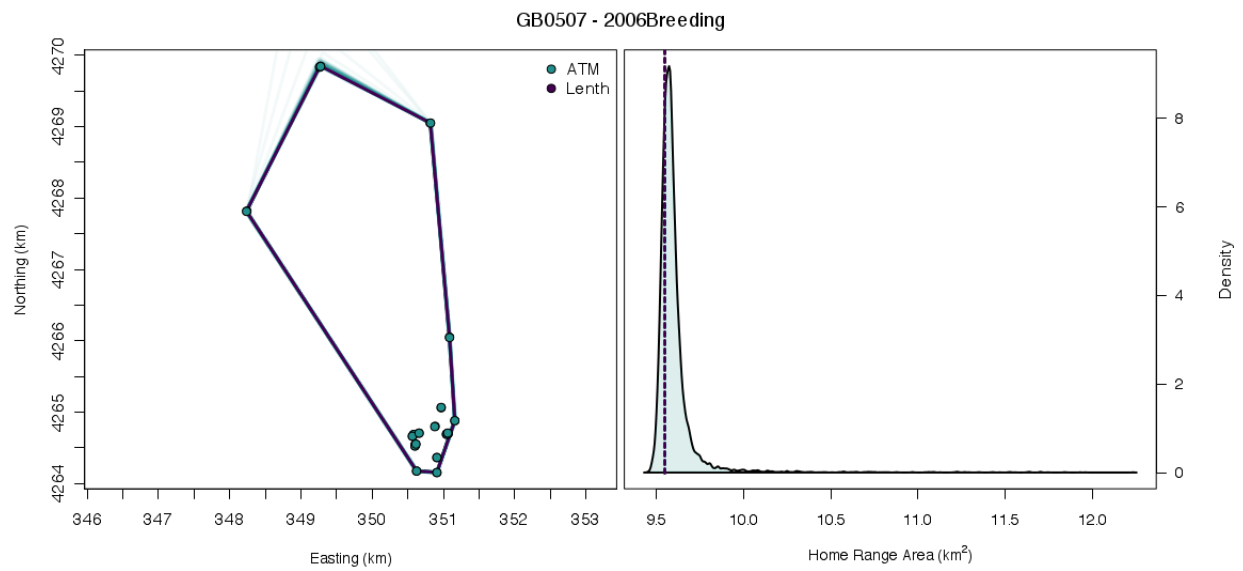


(a)

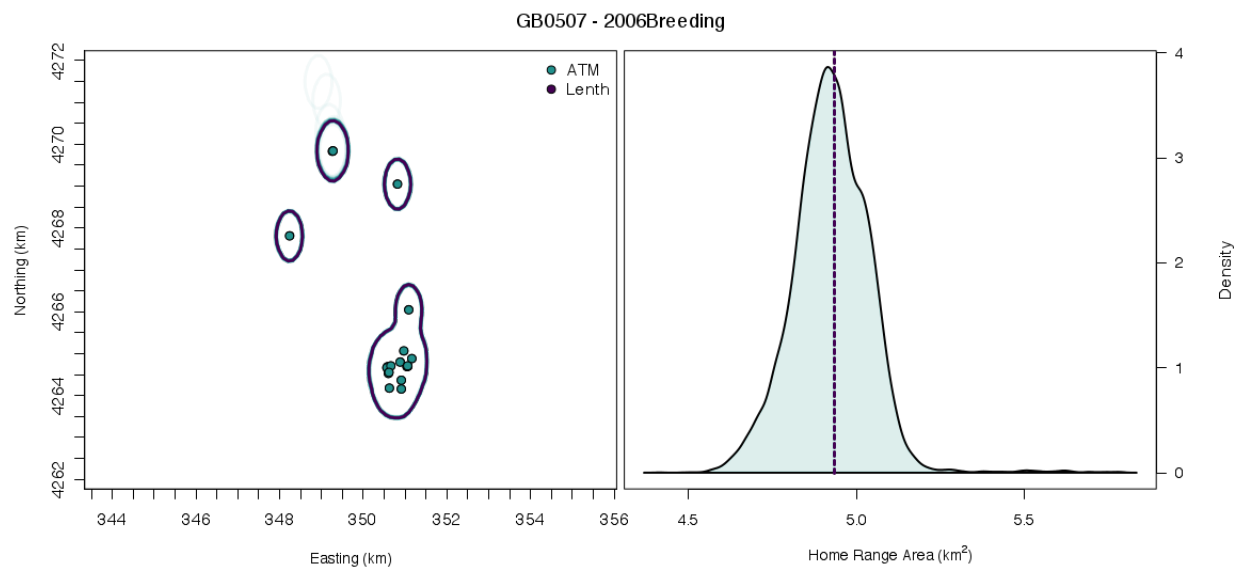


(b)

Figure 13

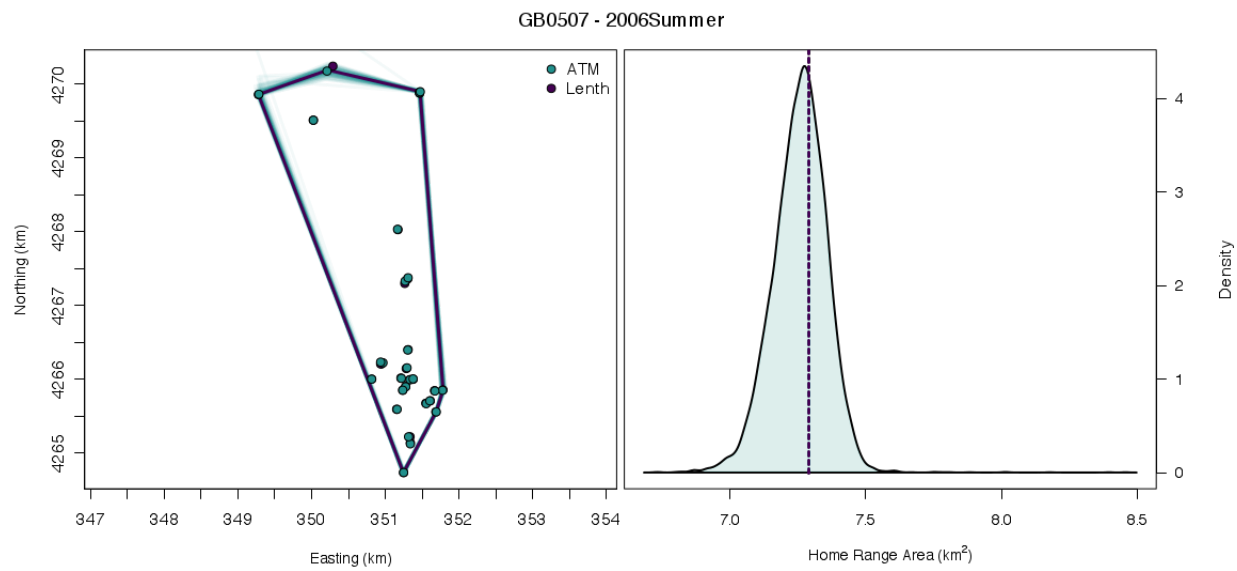


(a)

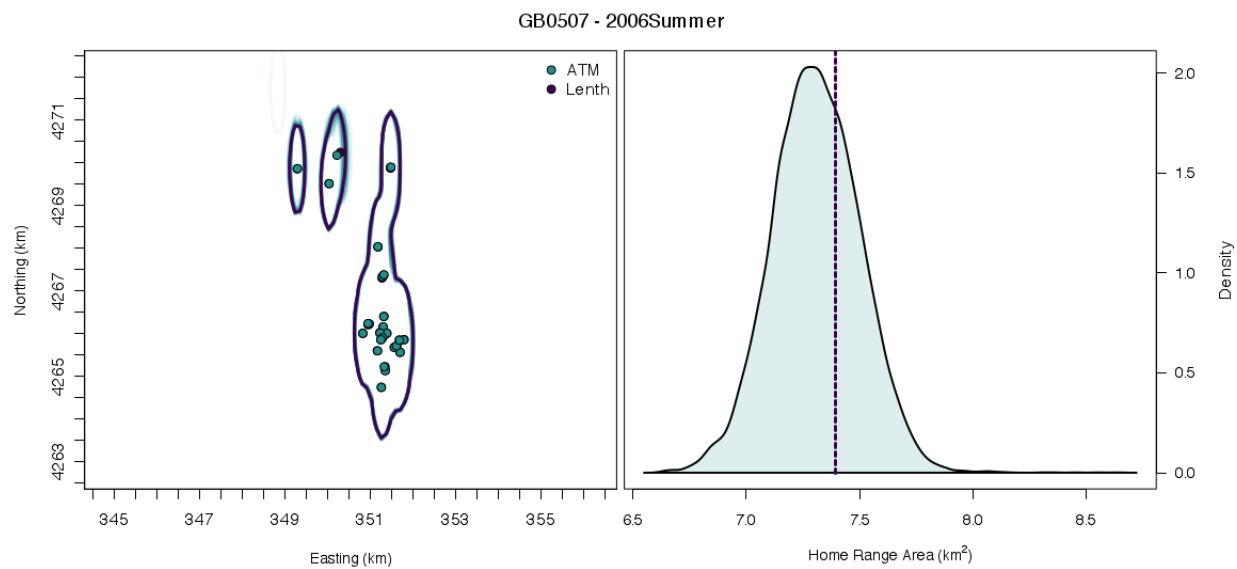


(b)

Figure 14

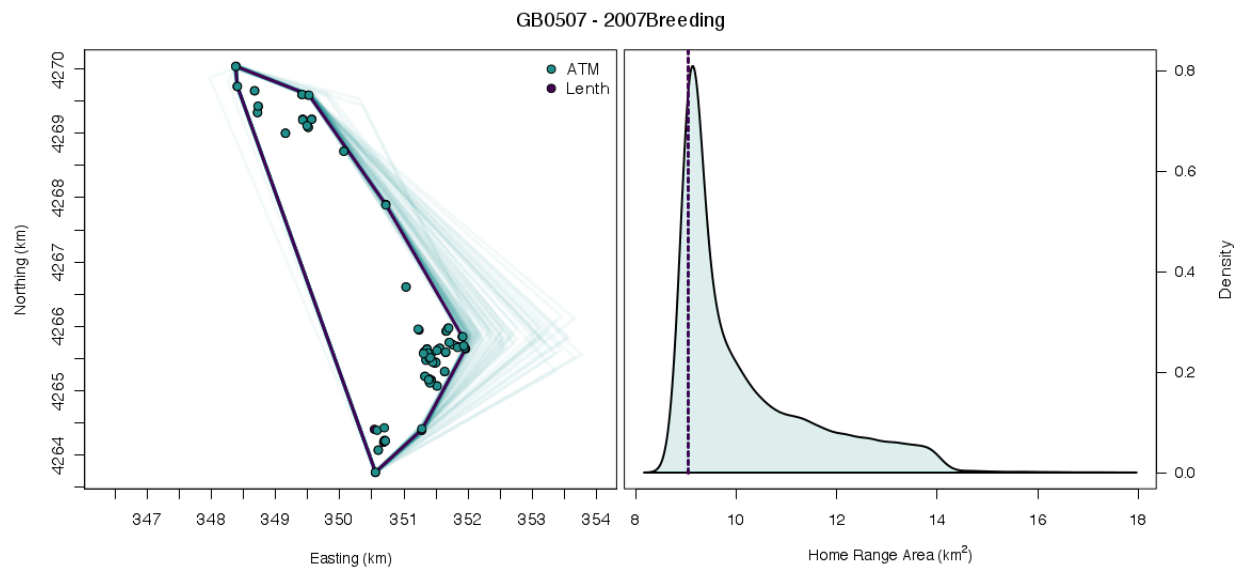


(a)

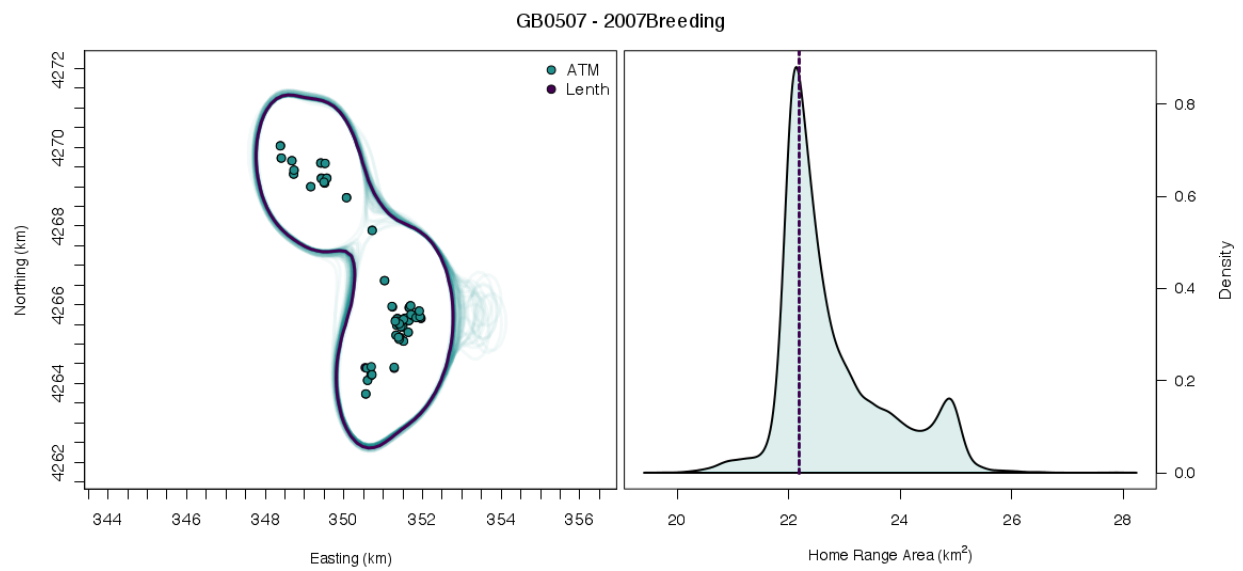


(b)

Figure 15

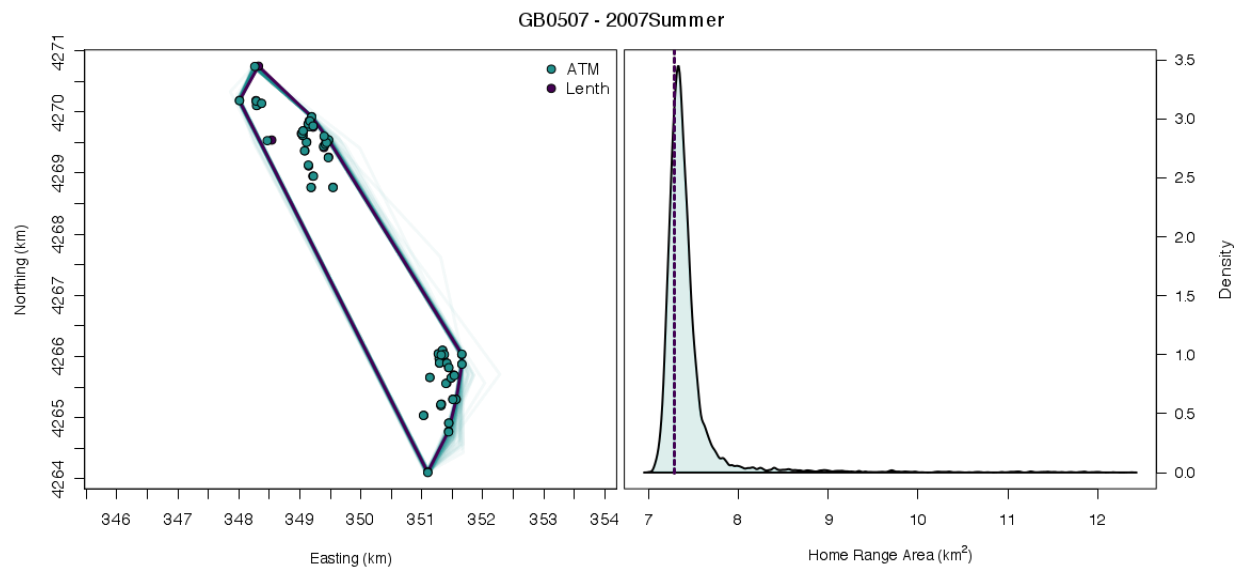


(a)

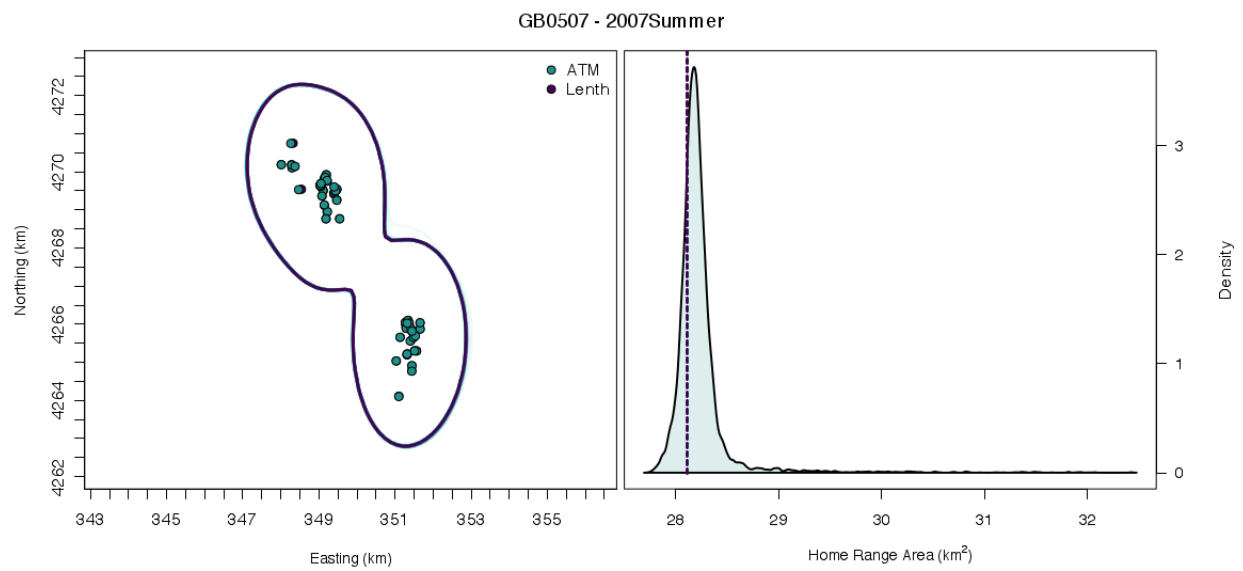


(b)

Figure 16

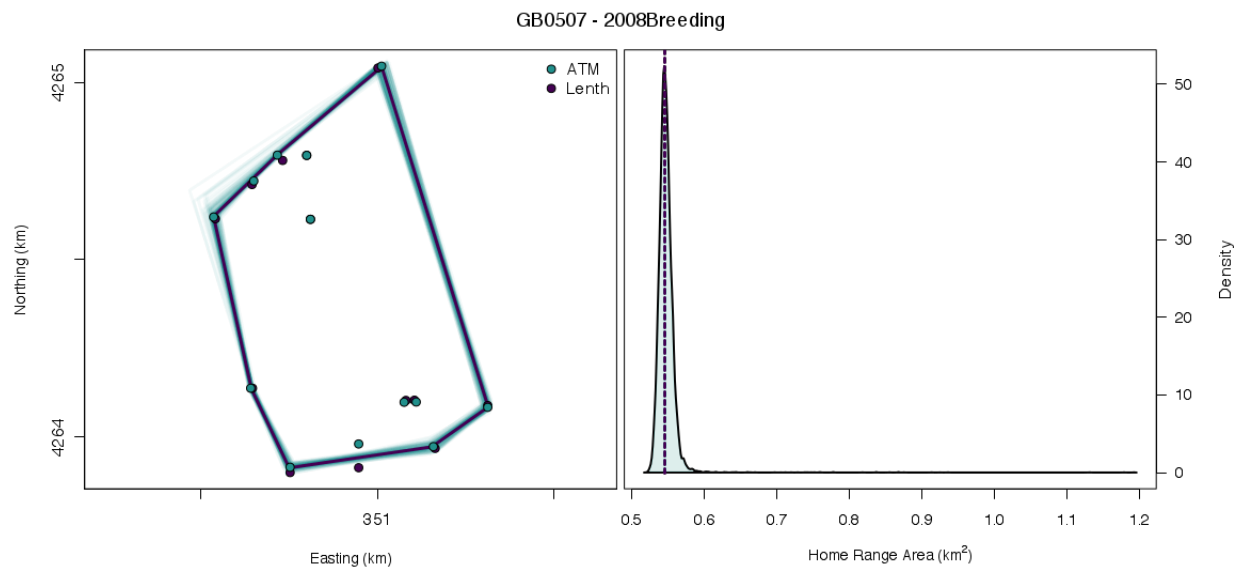


(a)

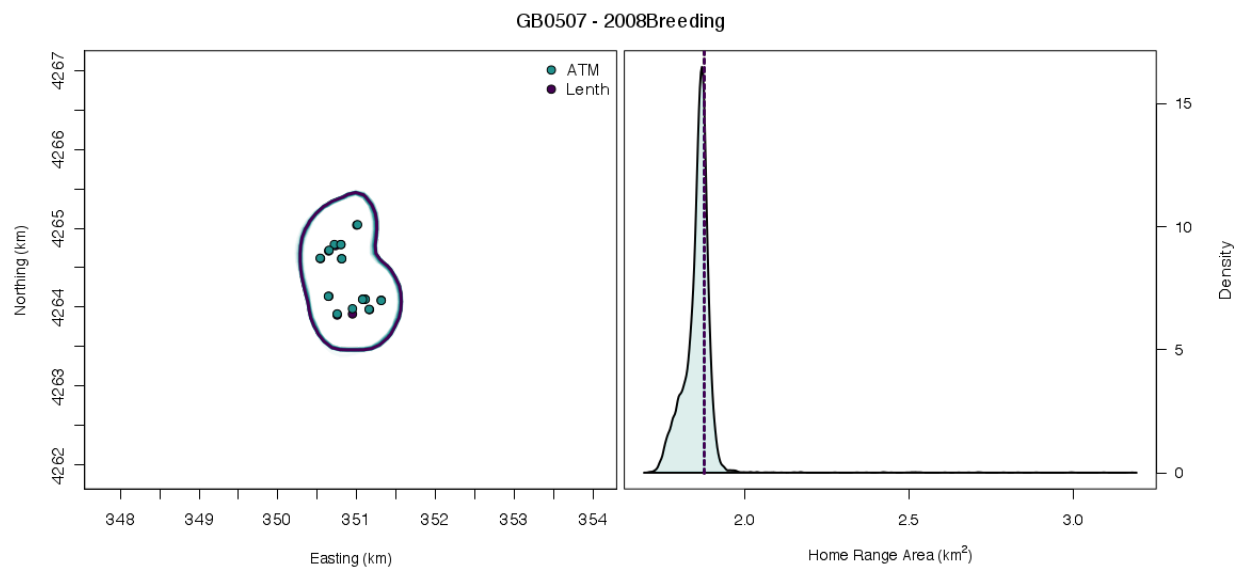


(b)

Figure 17

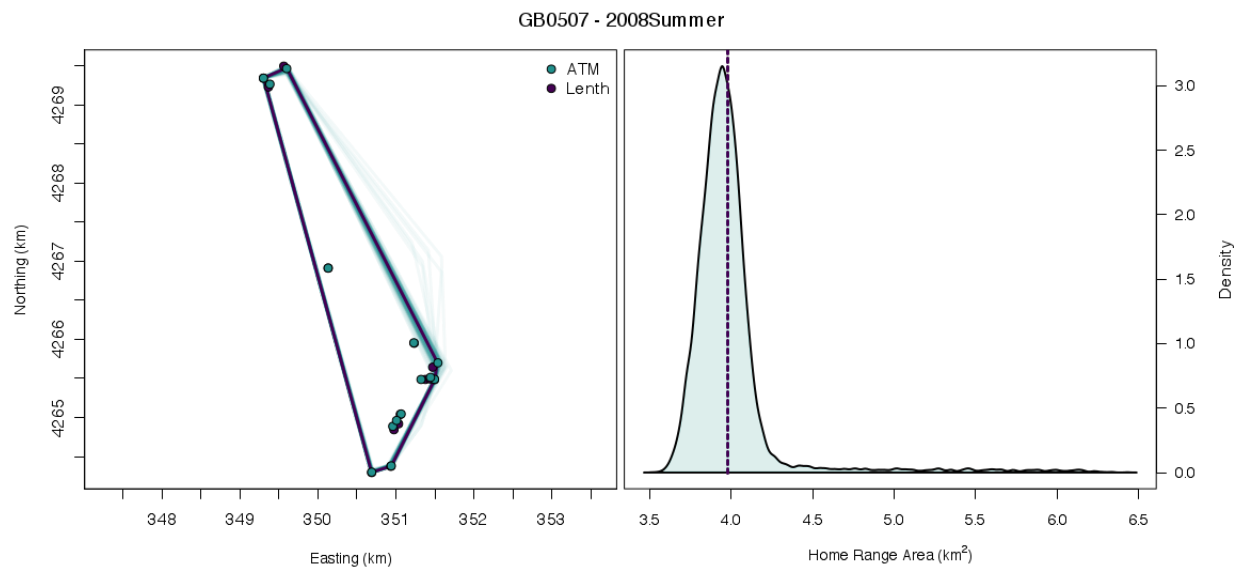


(a)

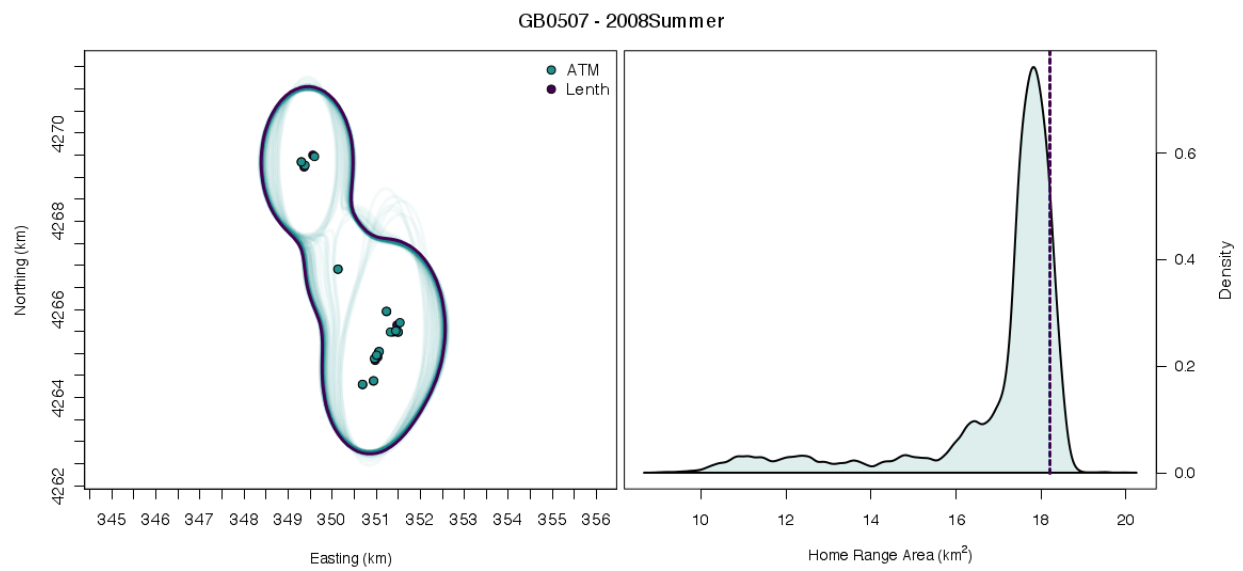


(b)

Figure 18

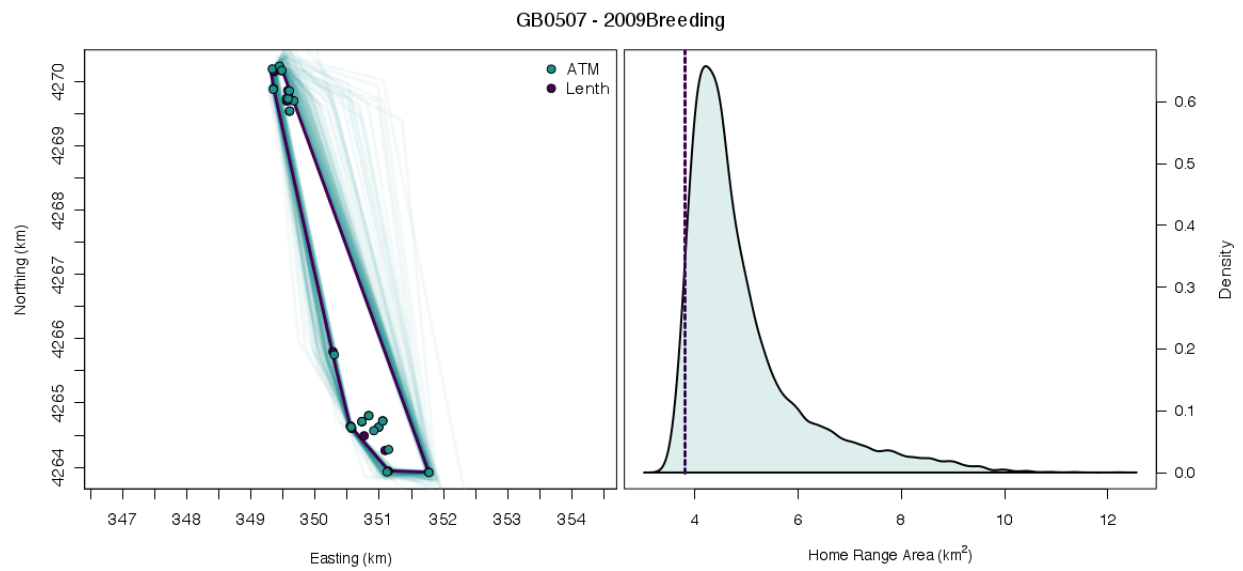


(a)

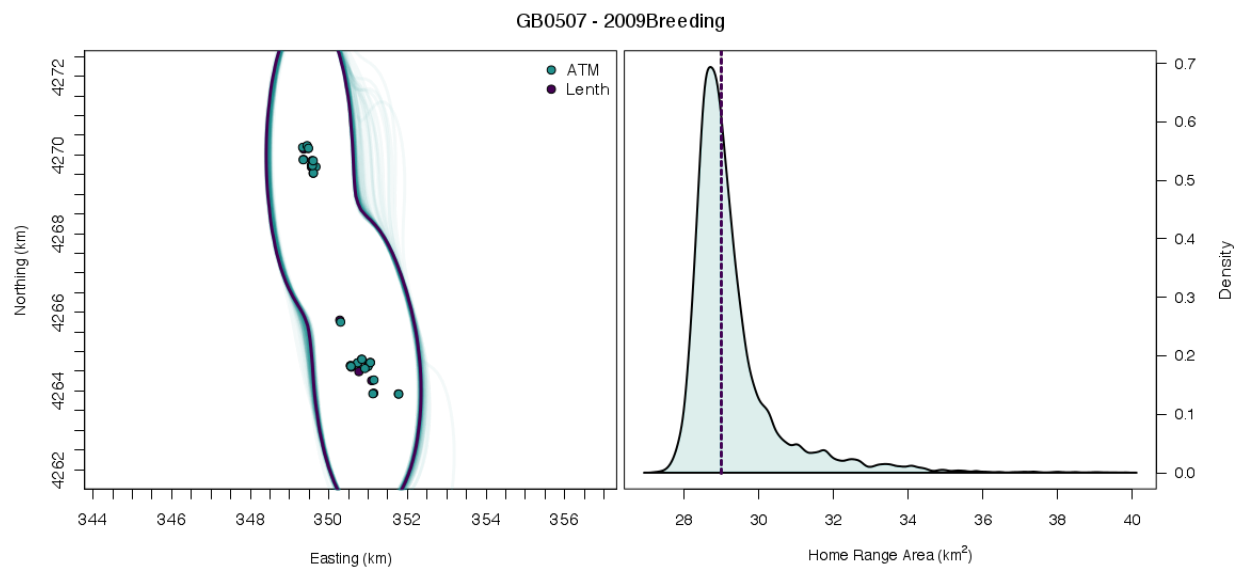


(b)

Figure 19

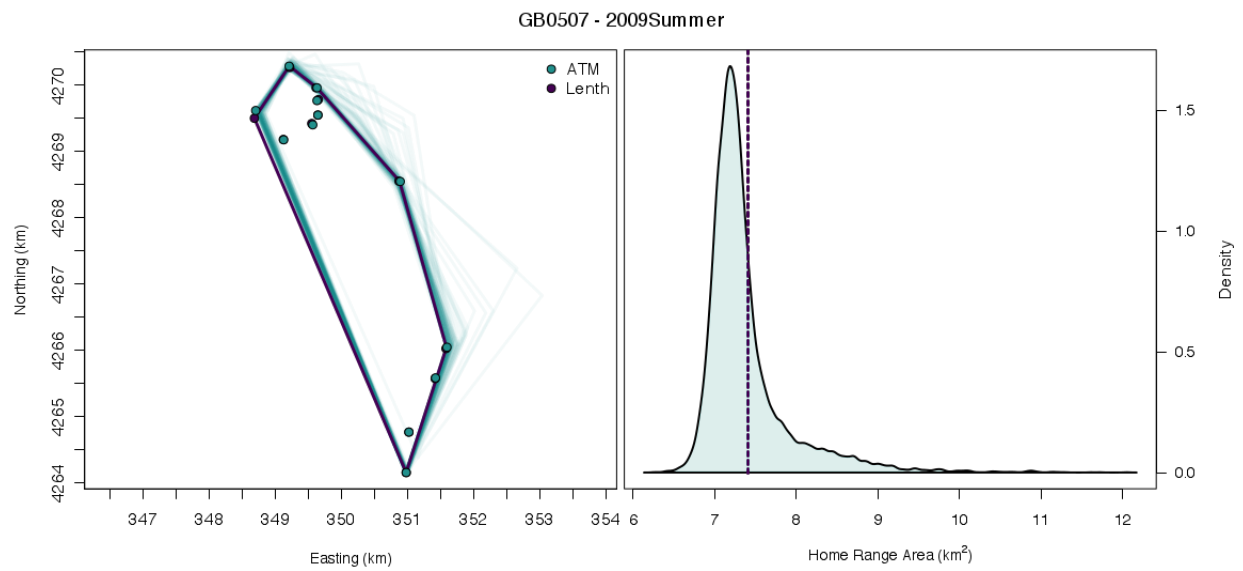


(a)

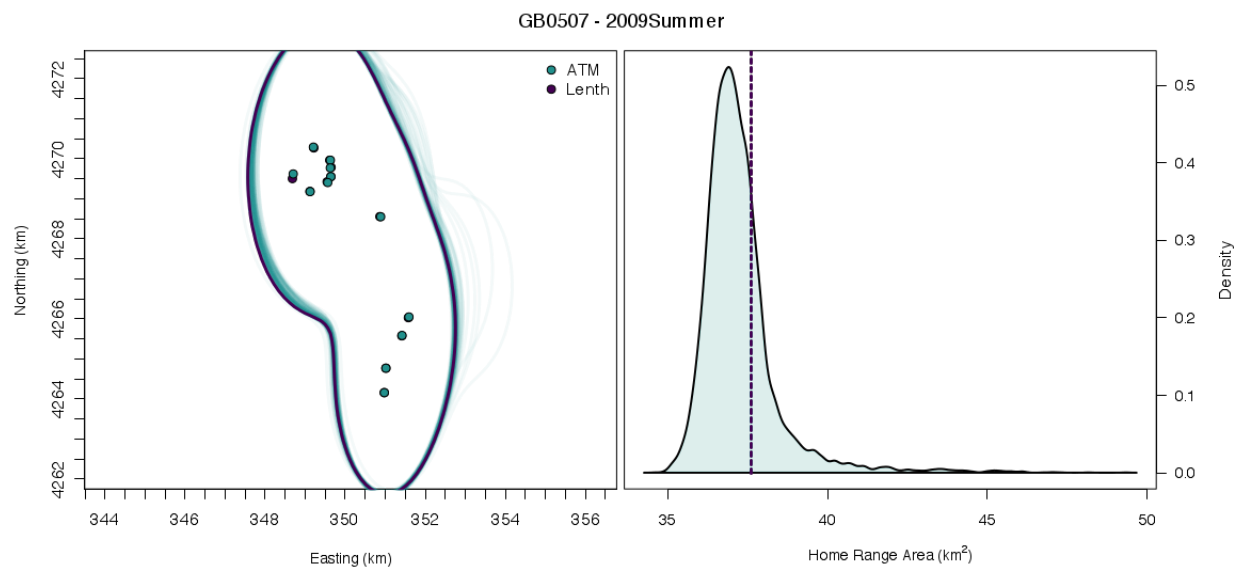


(b)

Figure 20

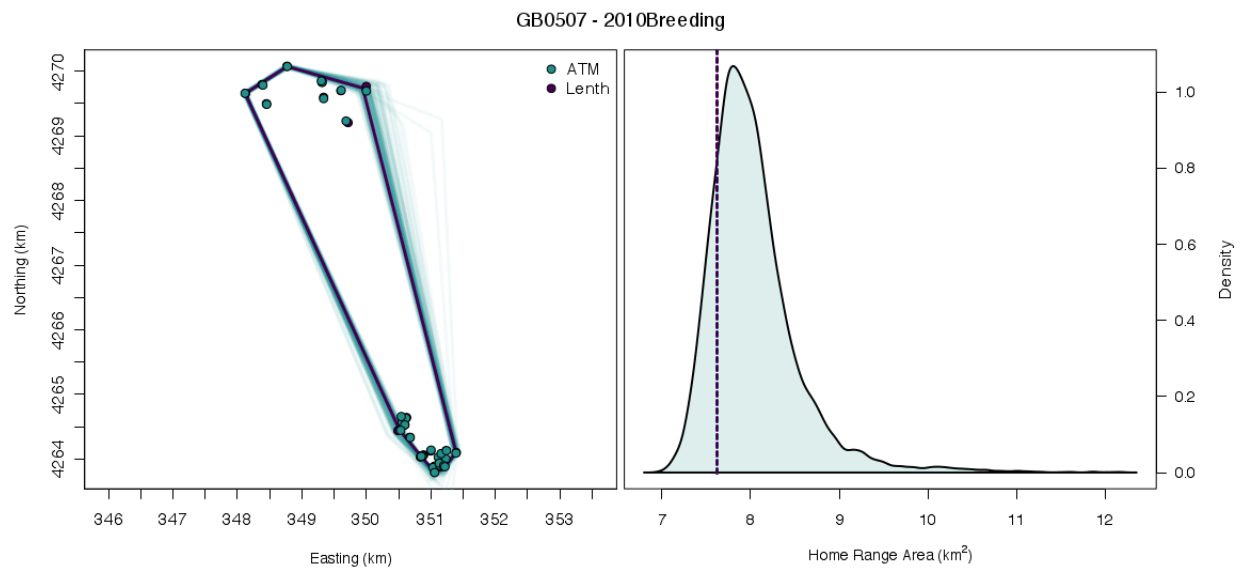


(a)

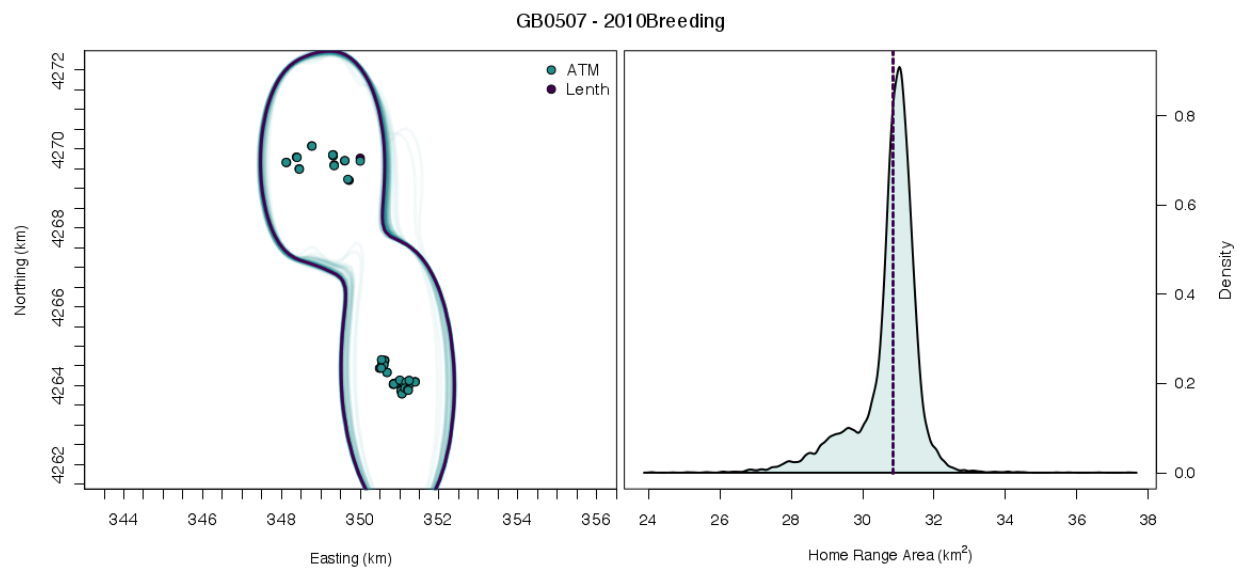


(b)

Figure 21



(a)



(b)

Figure 22

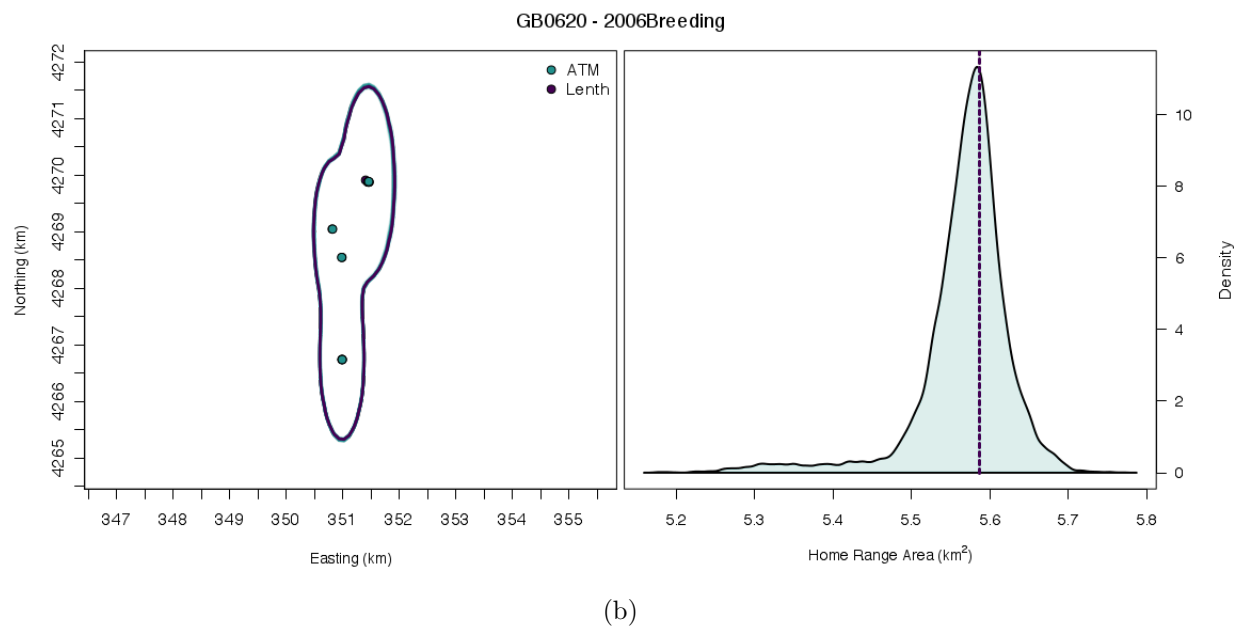
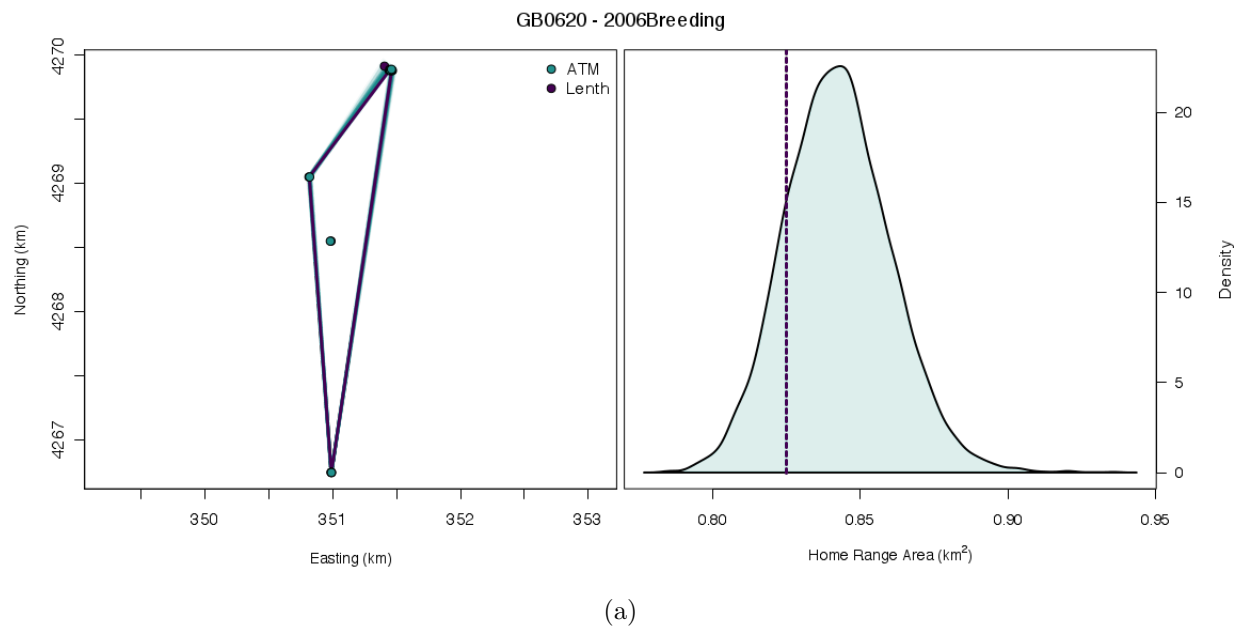
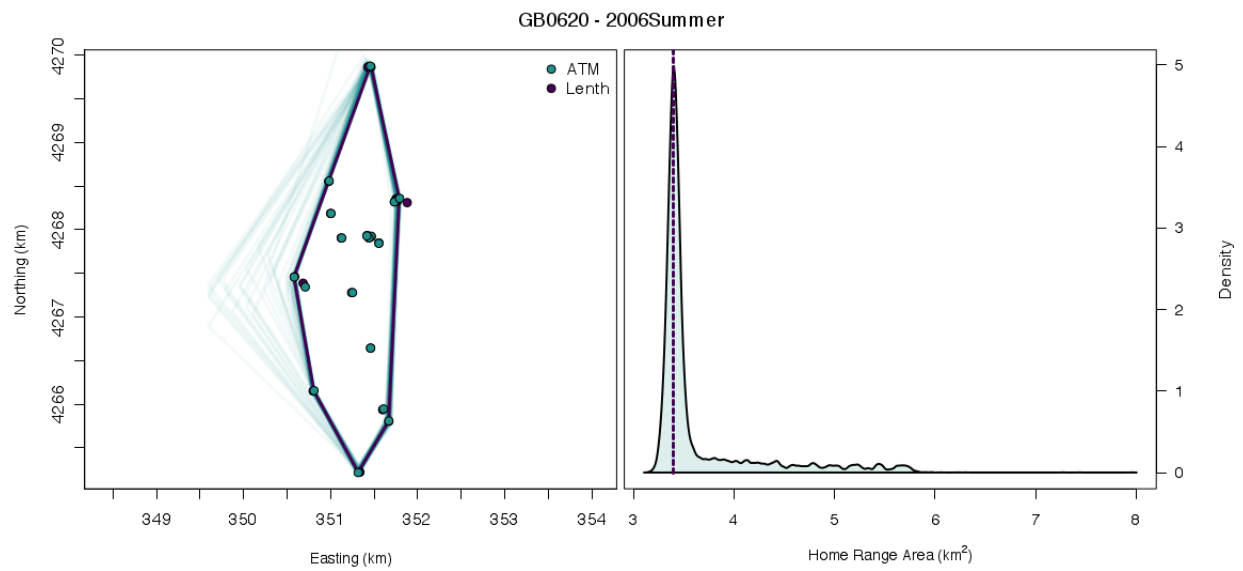
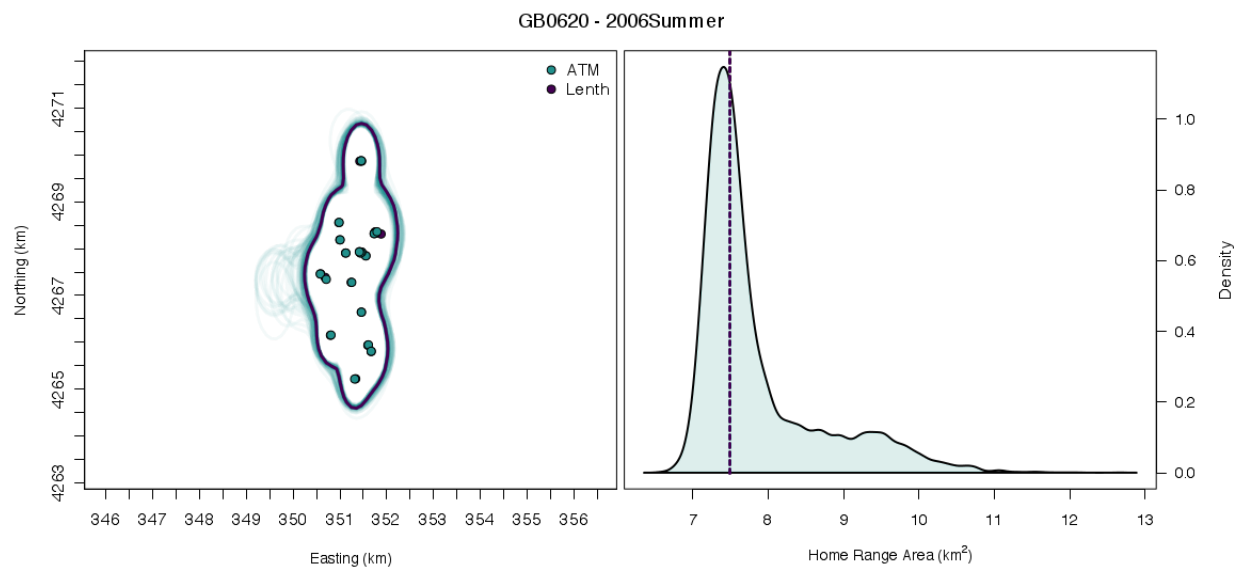


Figure 23



(a)



(b)

Figure 24

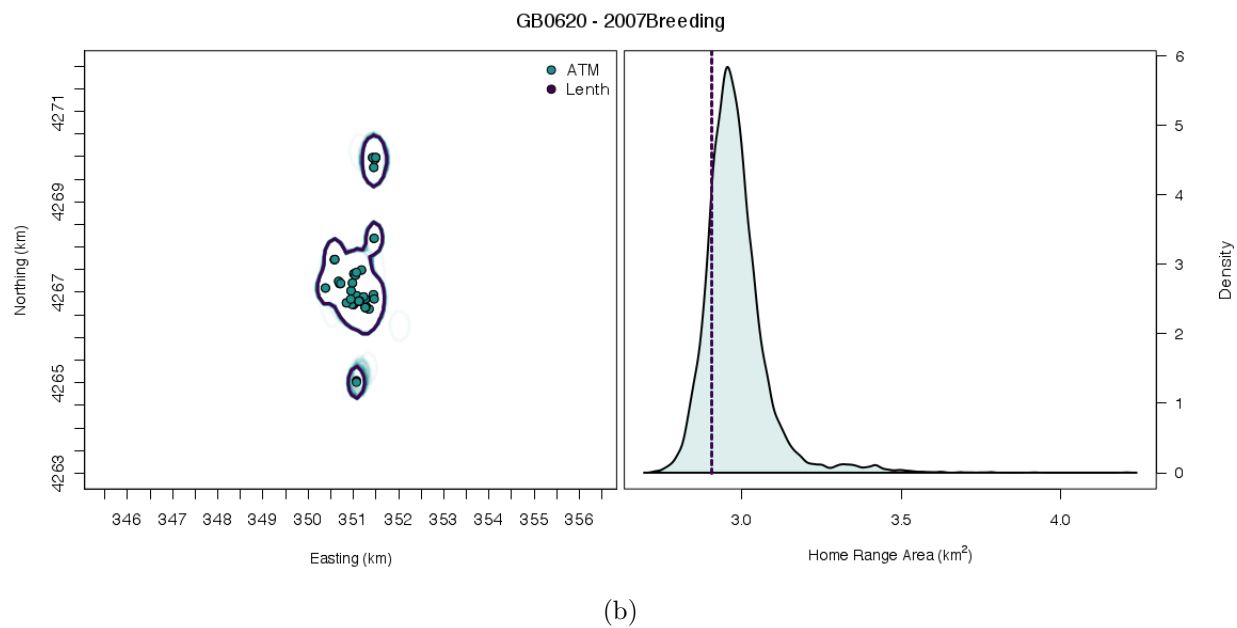
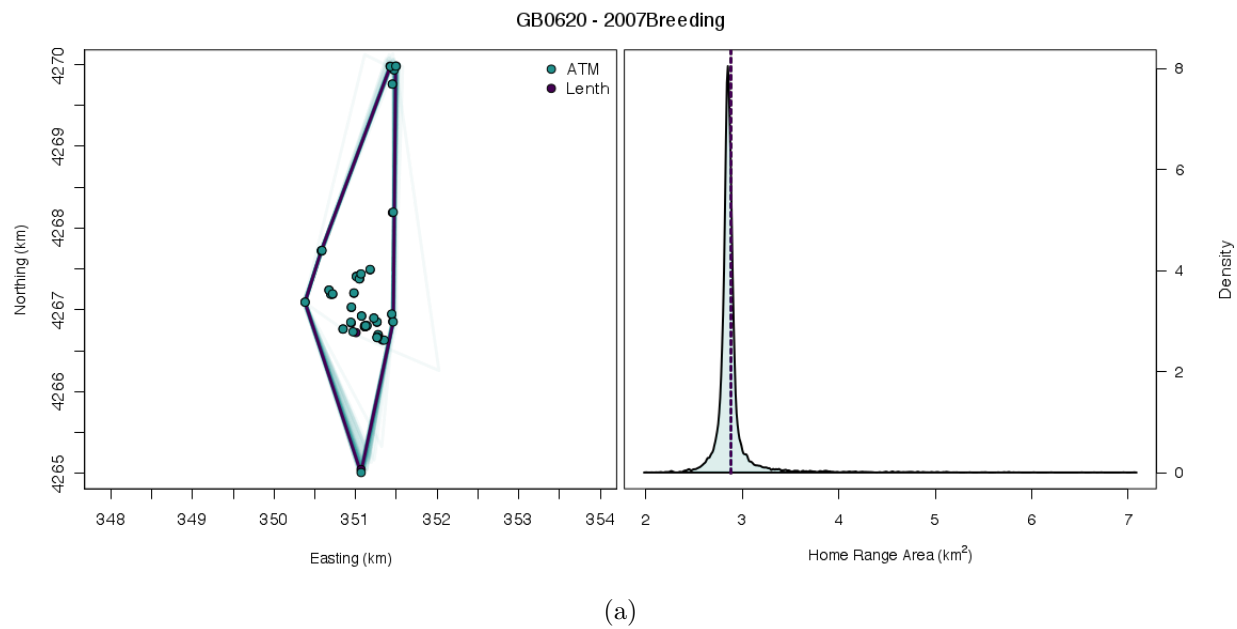


Figure 25

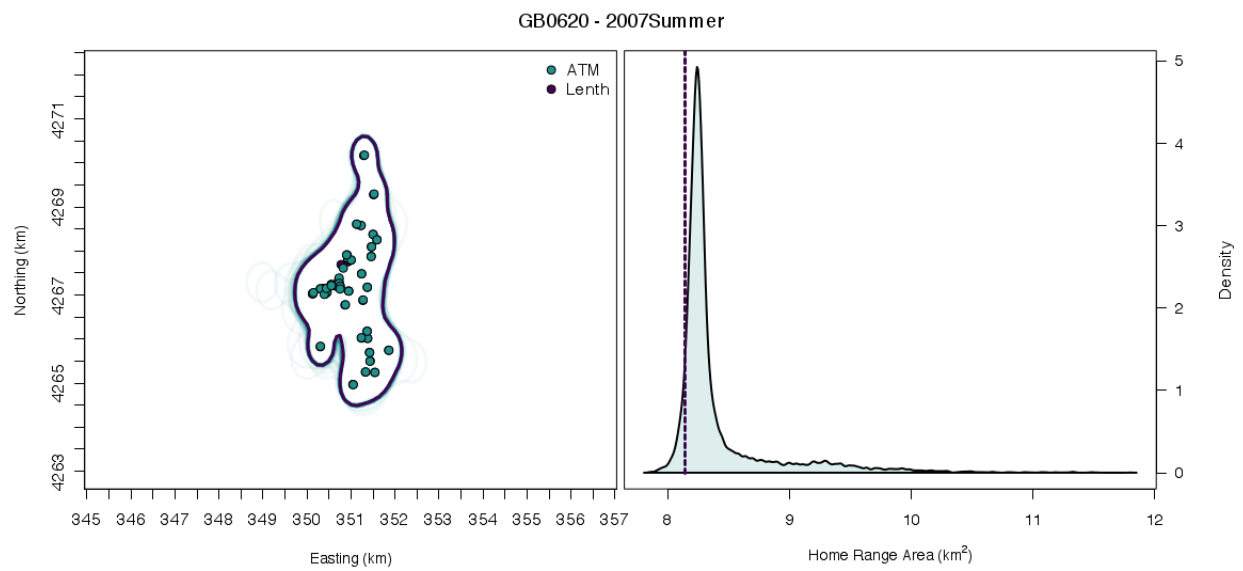
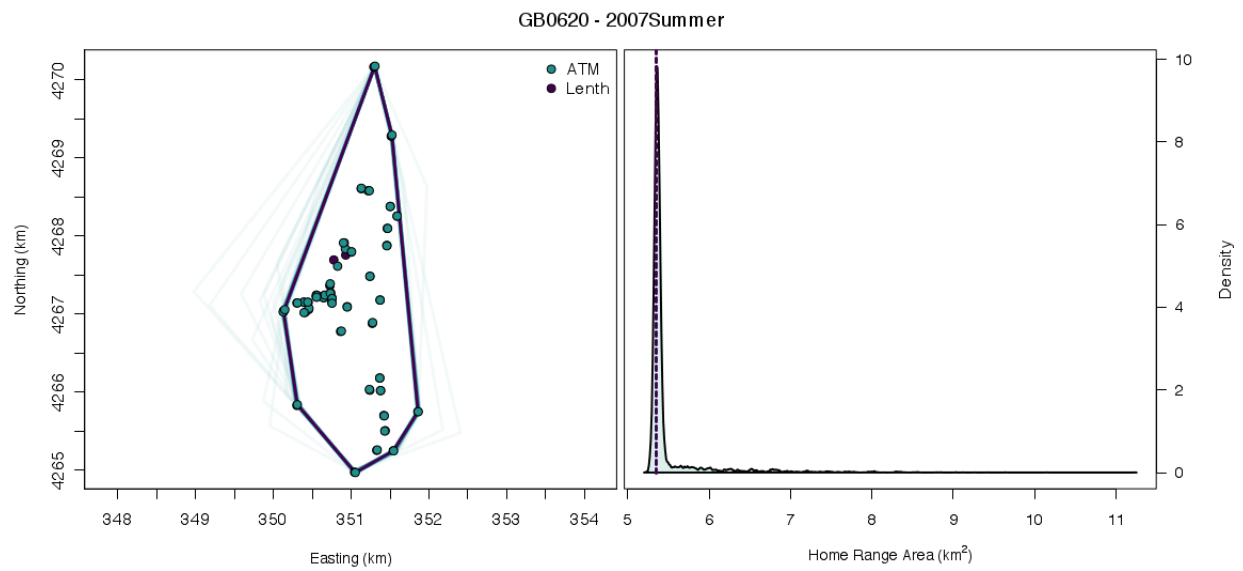


Figure 26

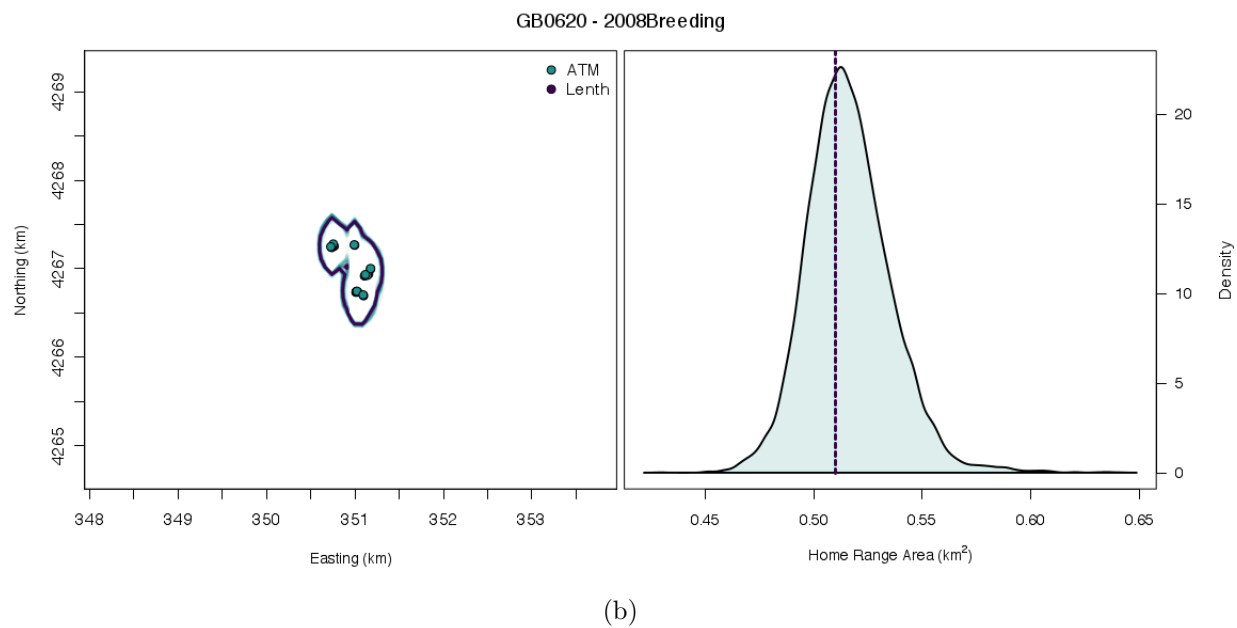
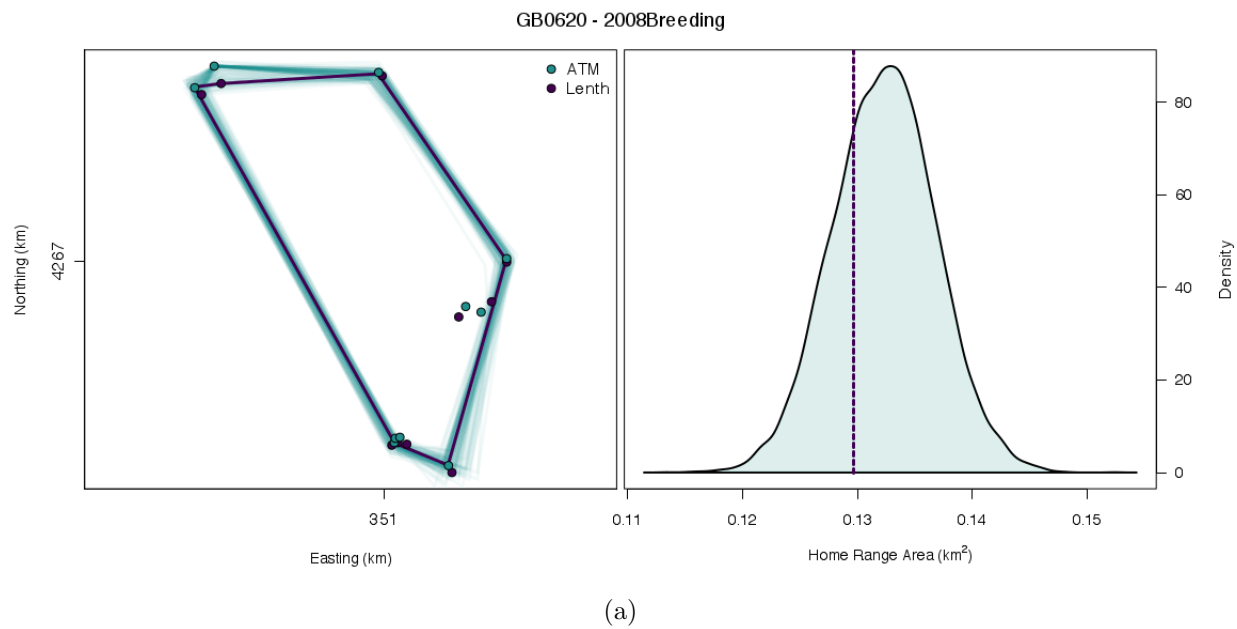


Figure 27

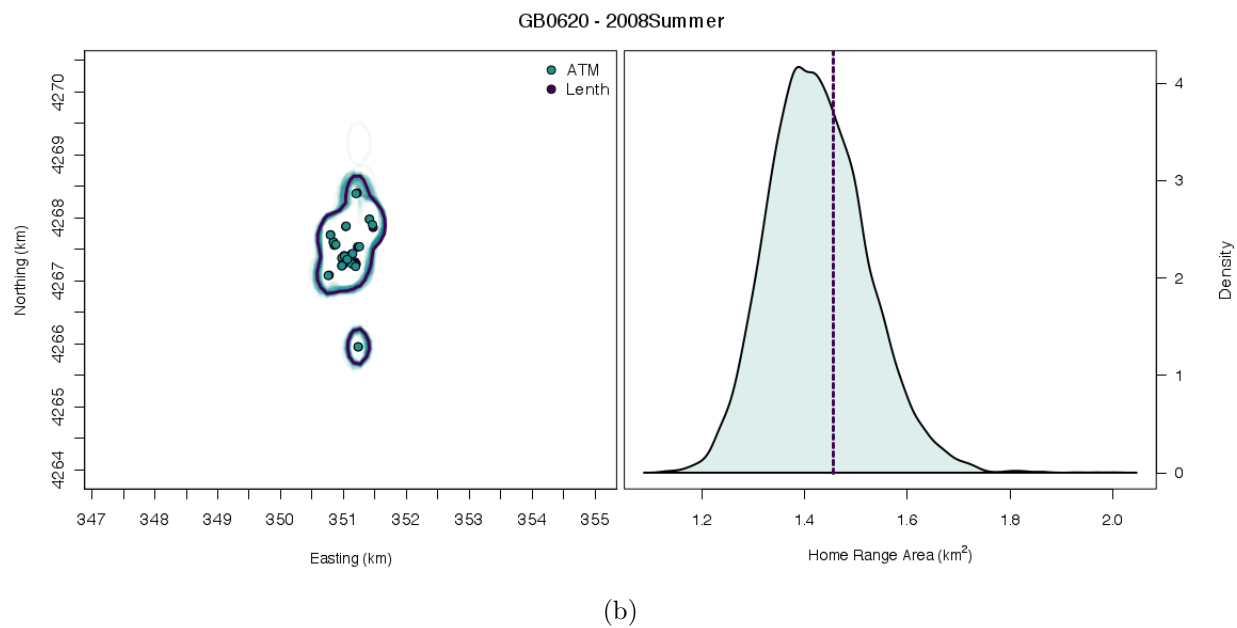
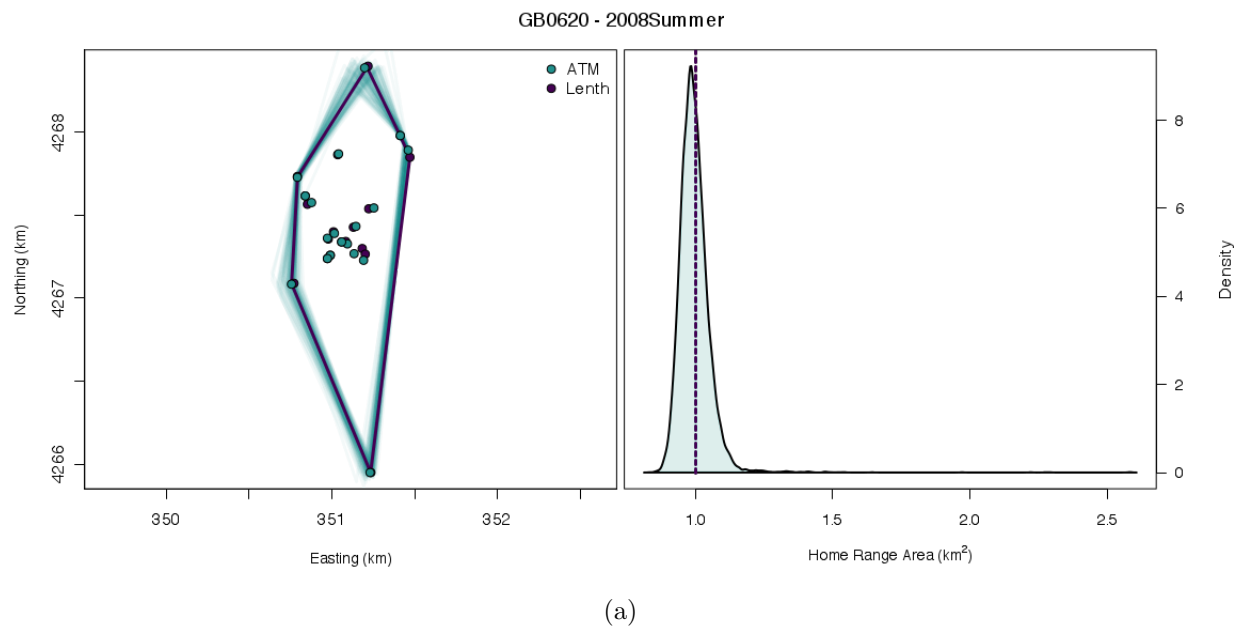
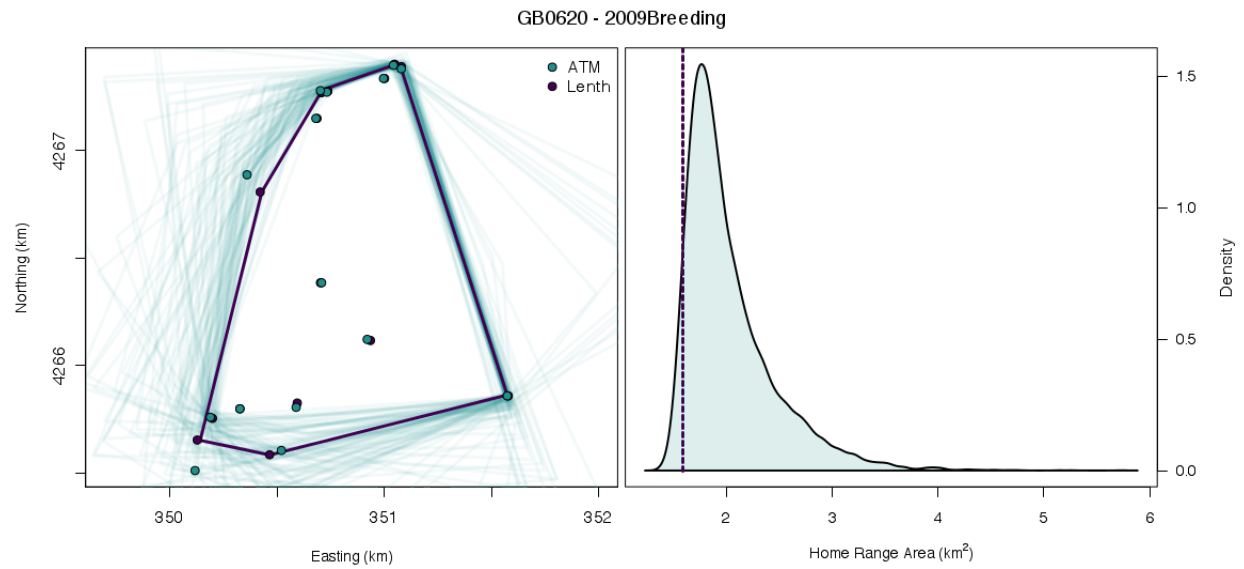
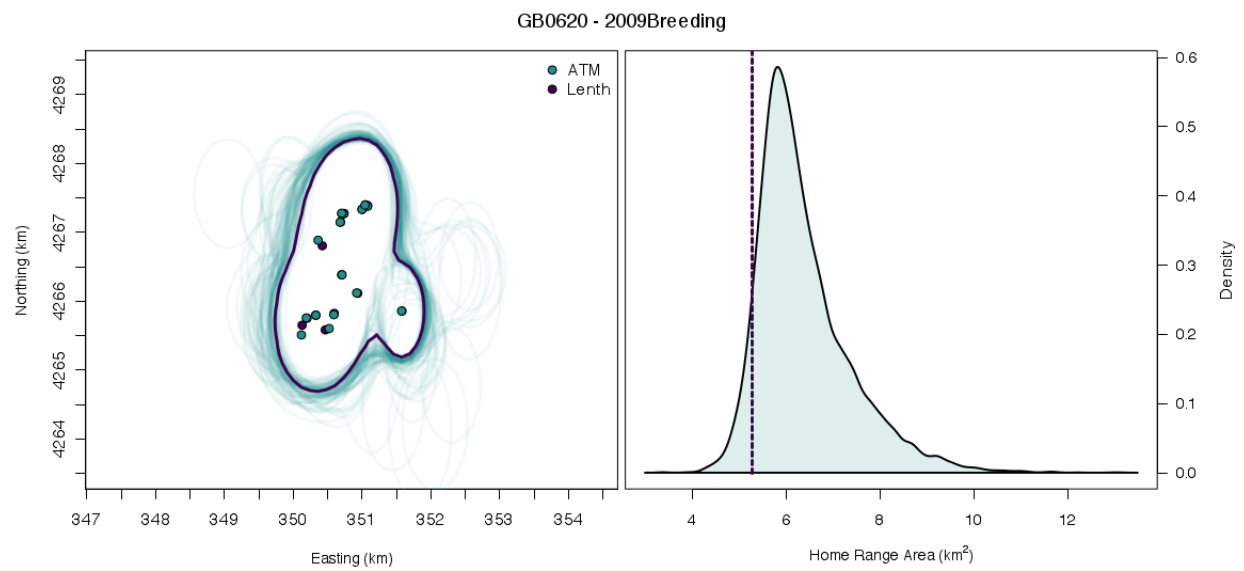


Figure 28

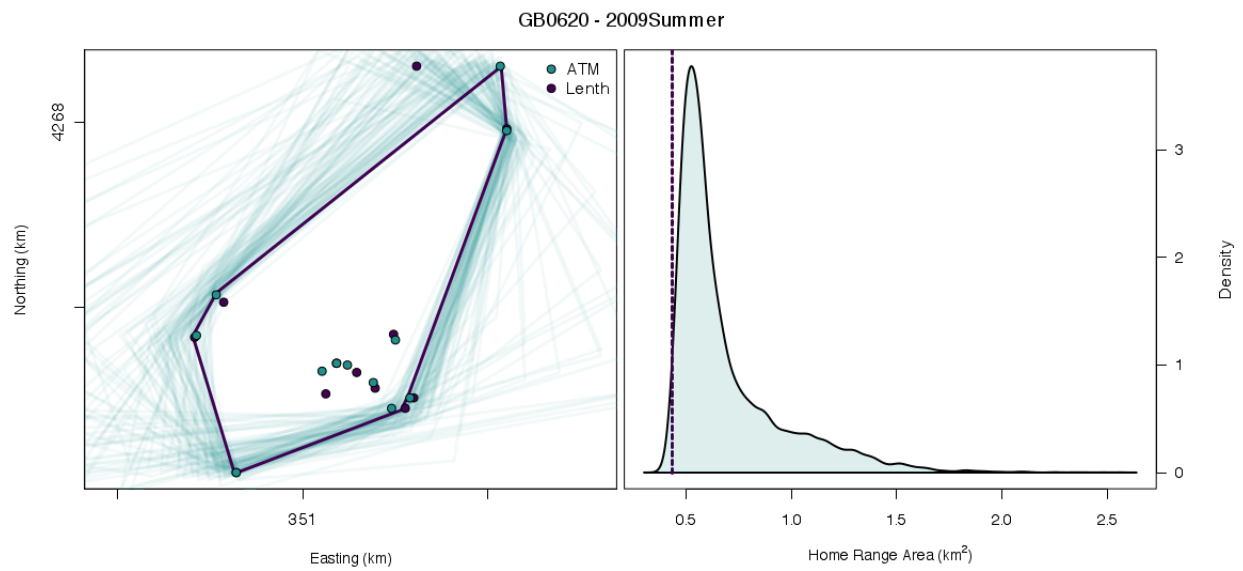


(a)

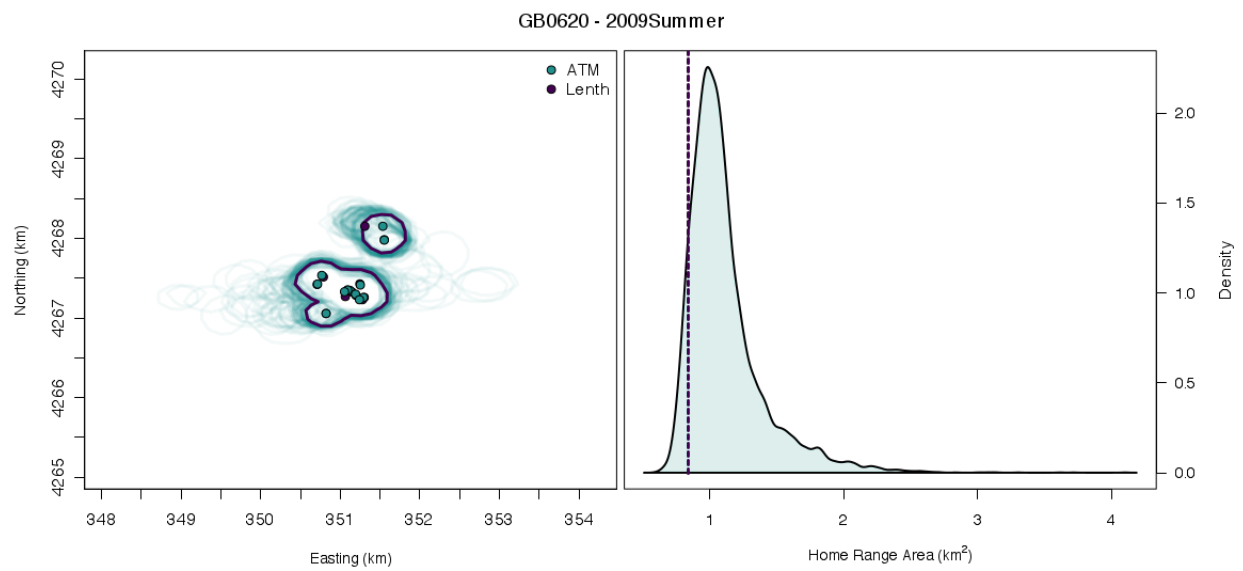


(b)

Figure 29

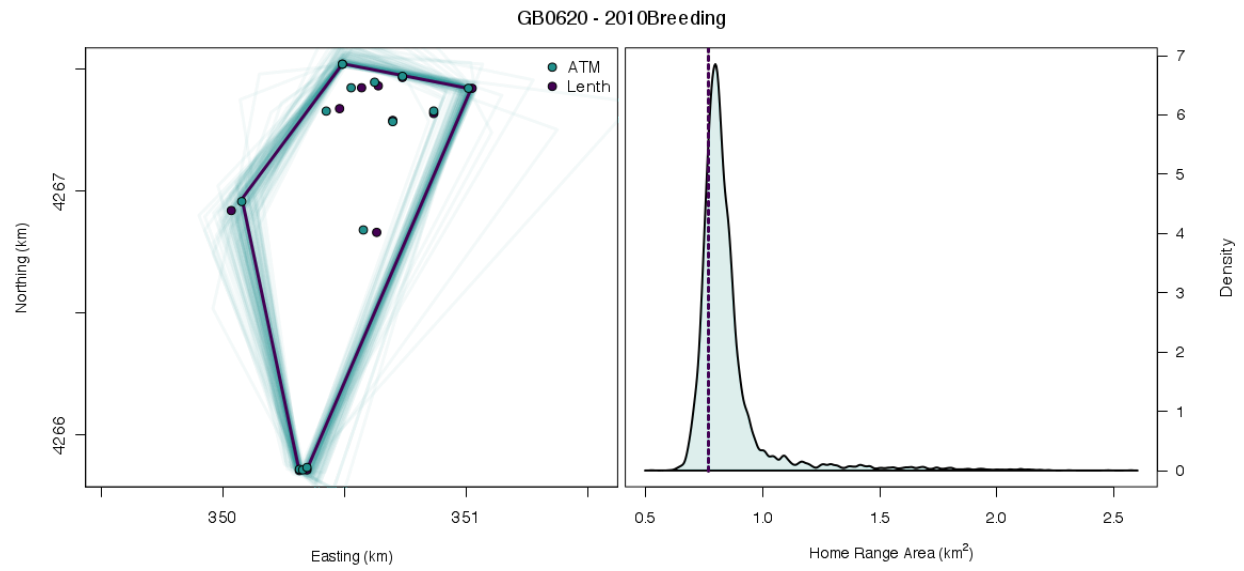


(a)

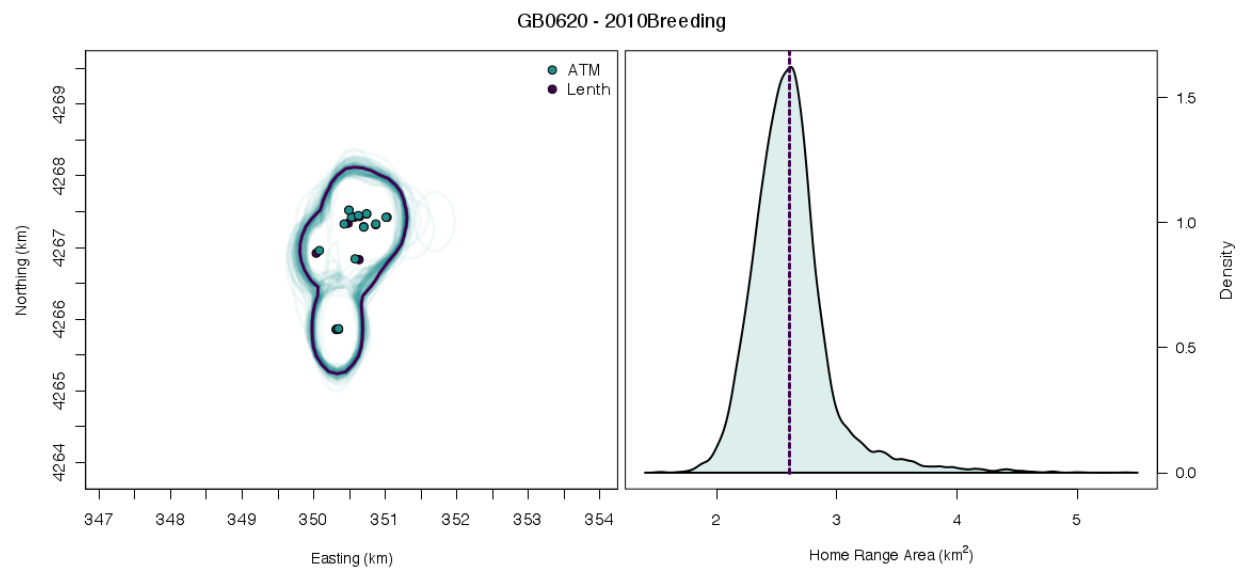


(b)

Figure 30



(a)



(b)

Figure 31

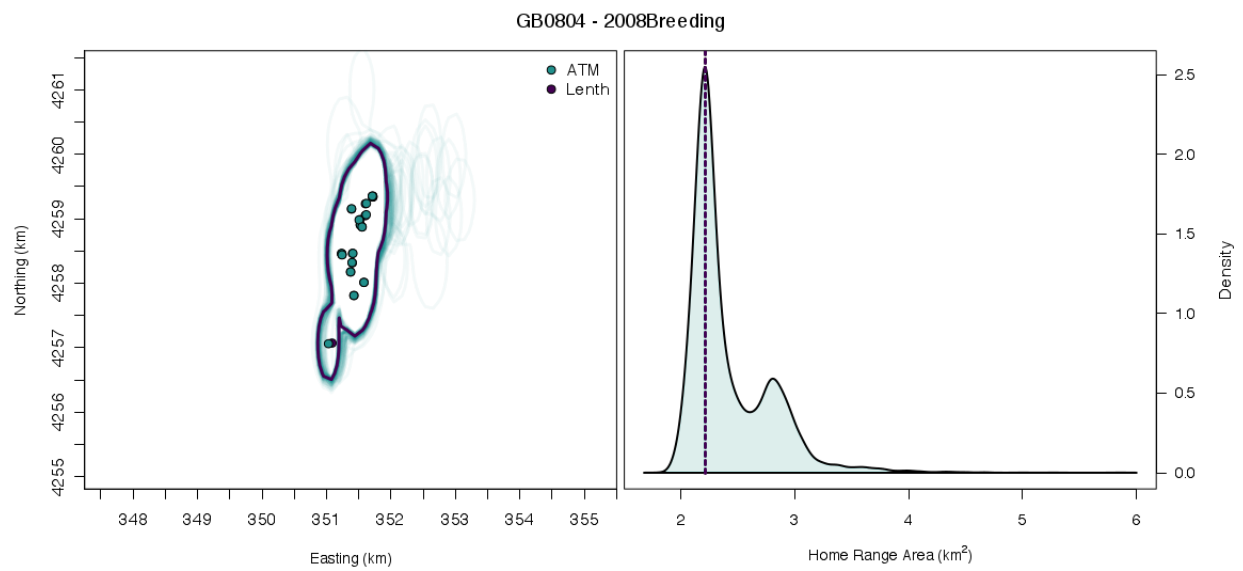
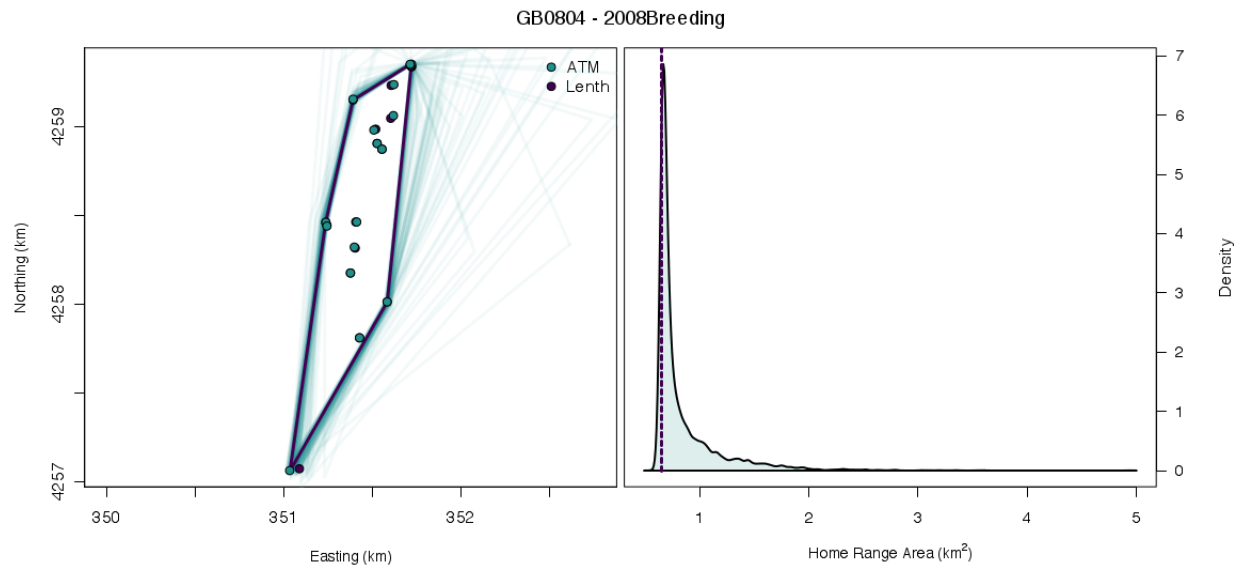


Figure 32

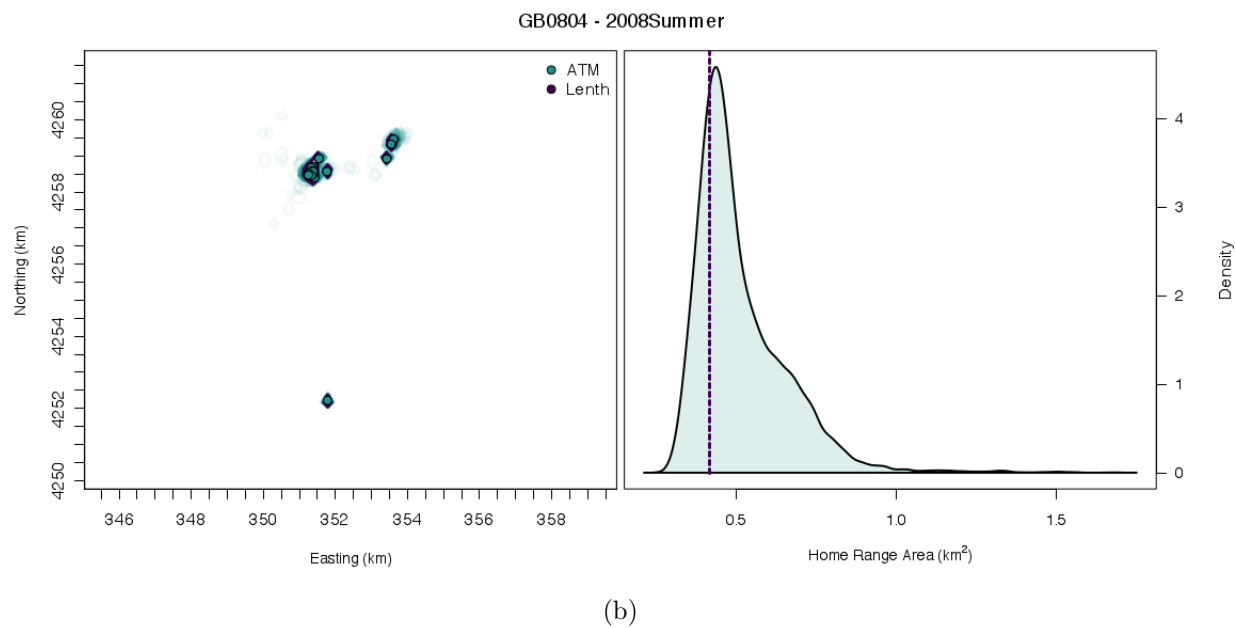
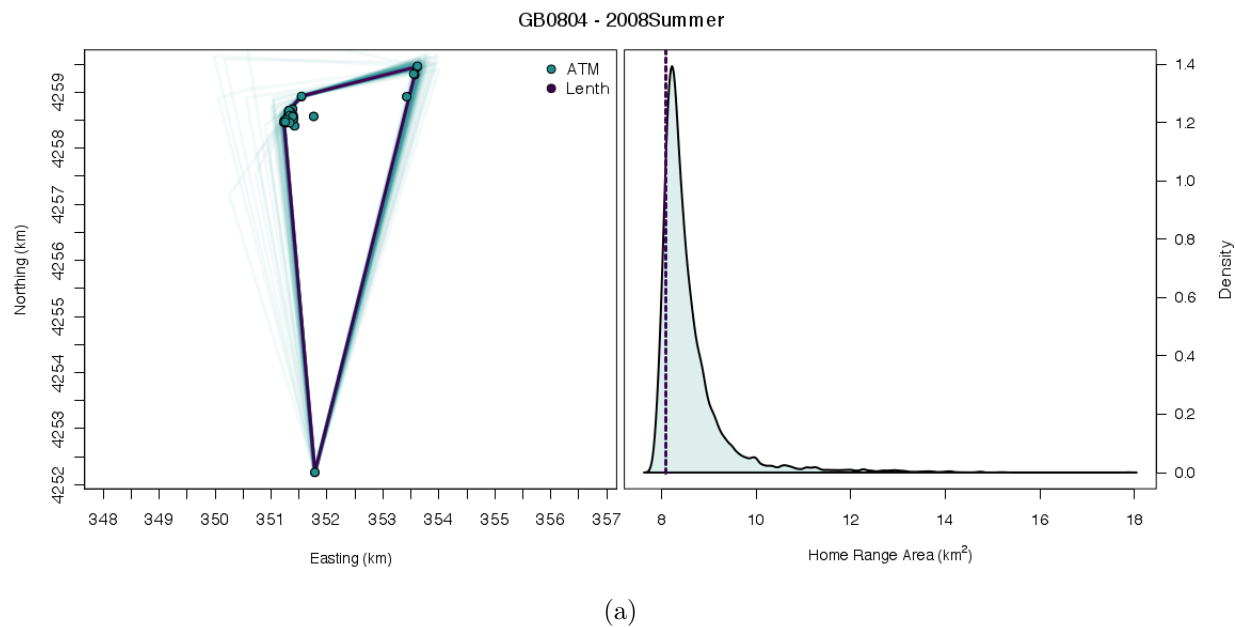
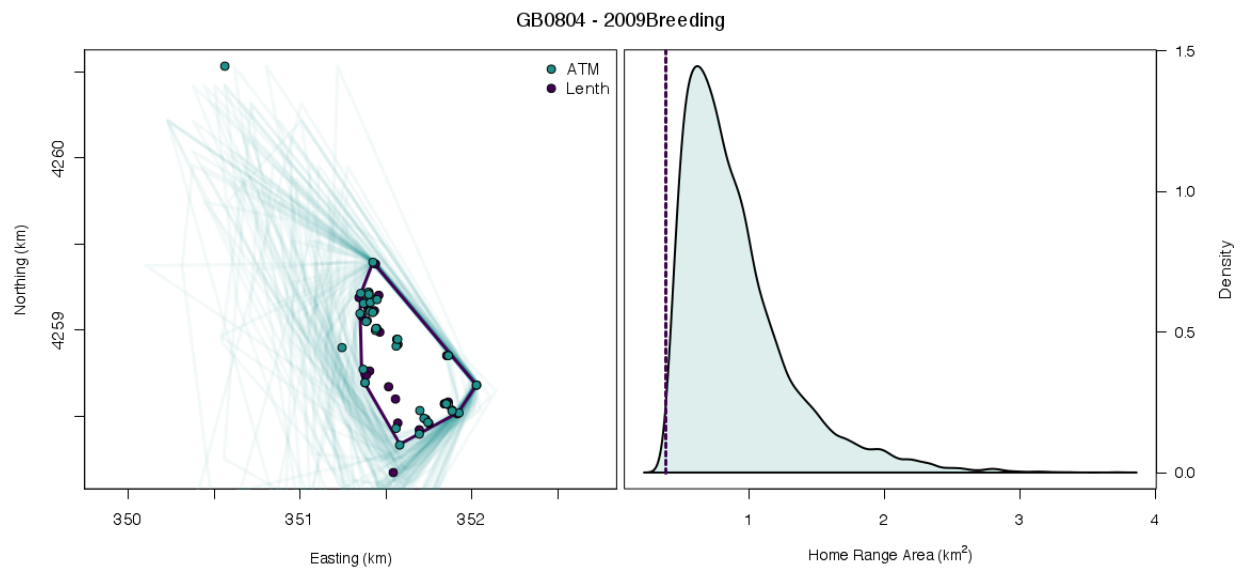
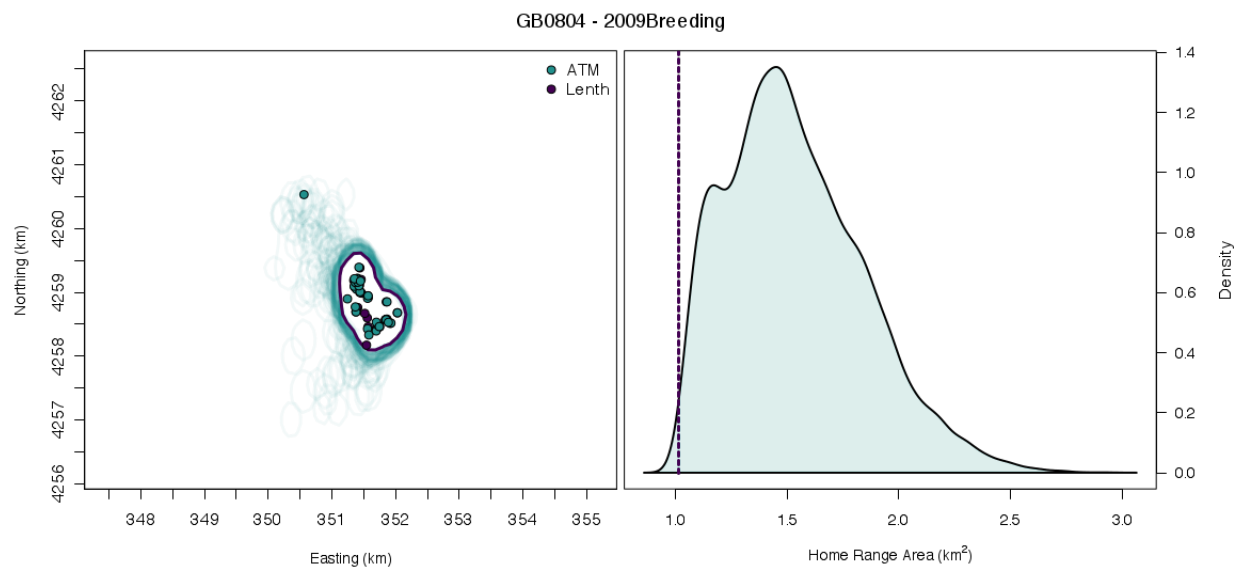


Figure 33

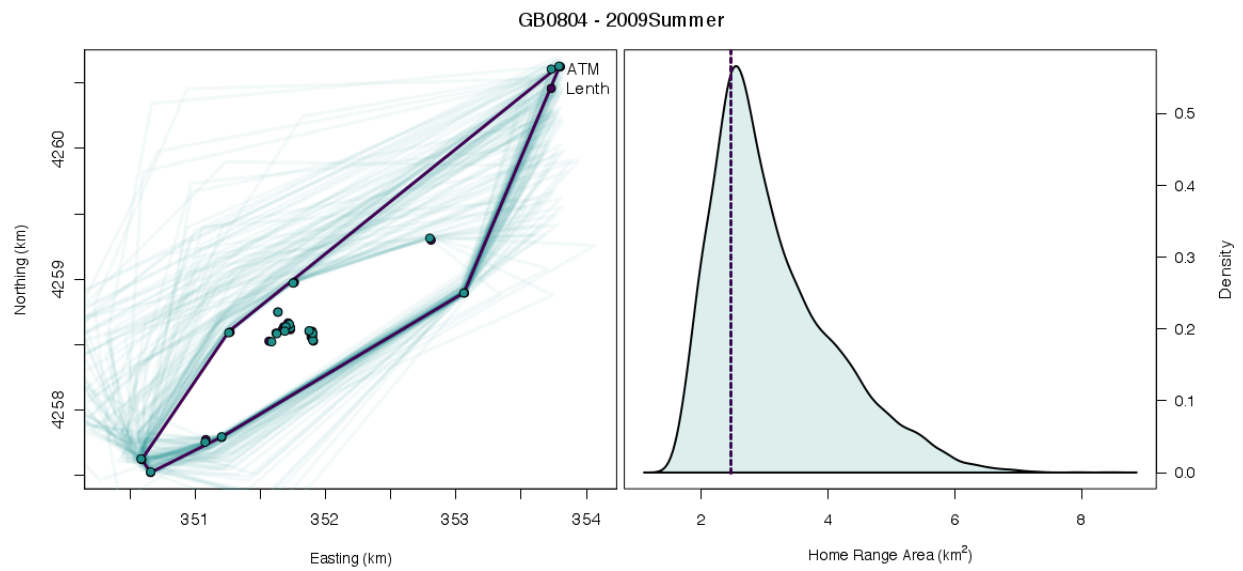


(a)

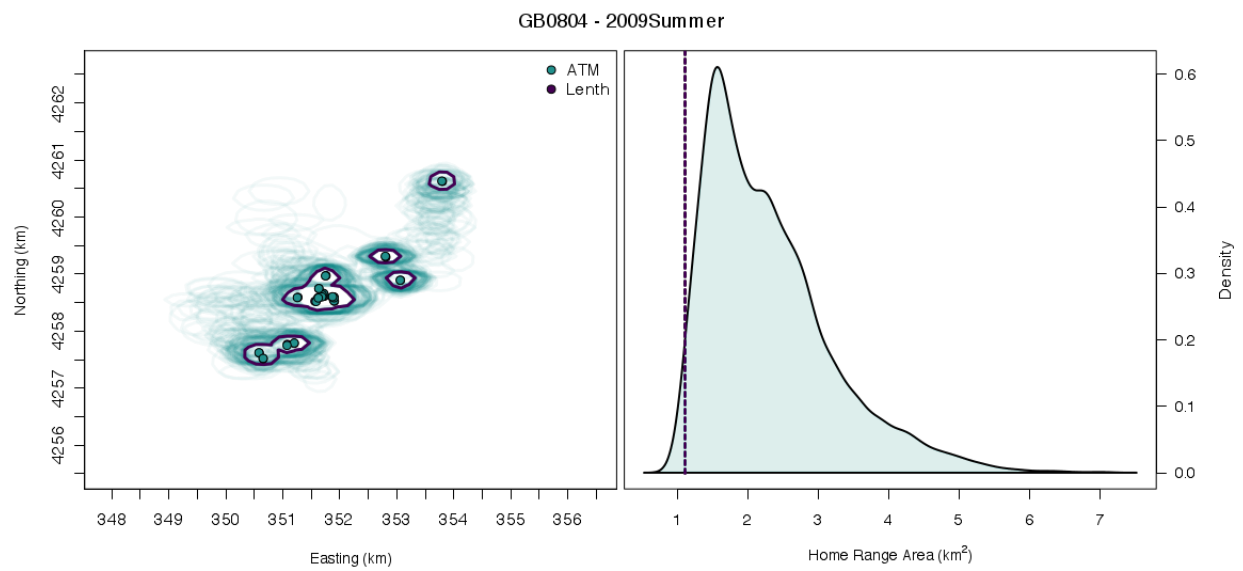


(b)

Figure 34

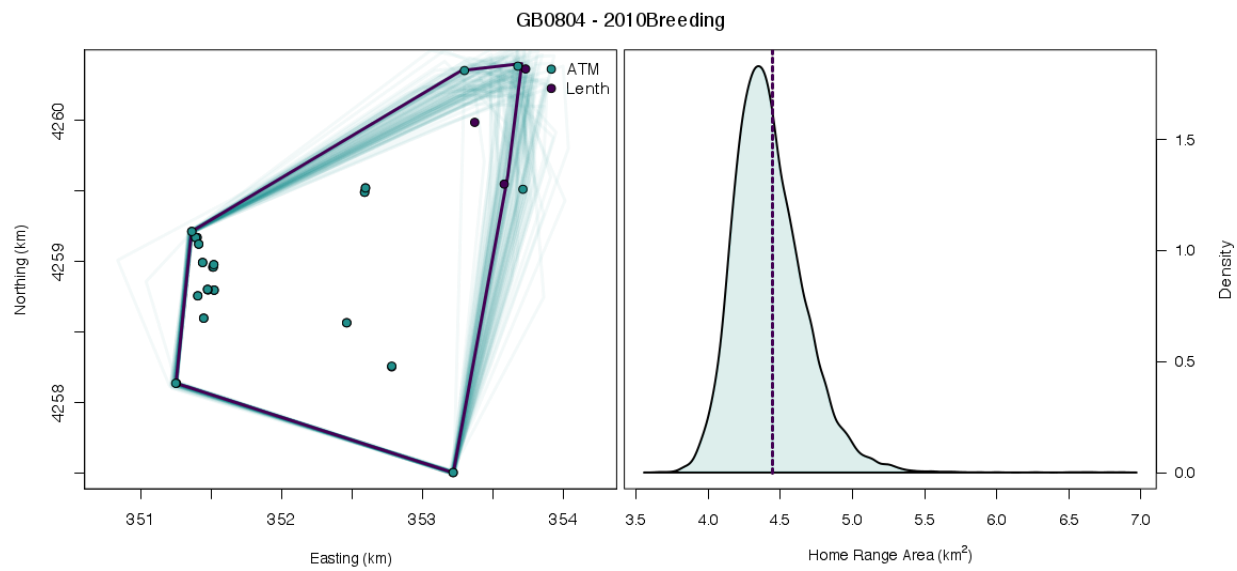


(a)

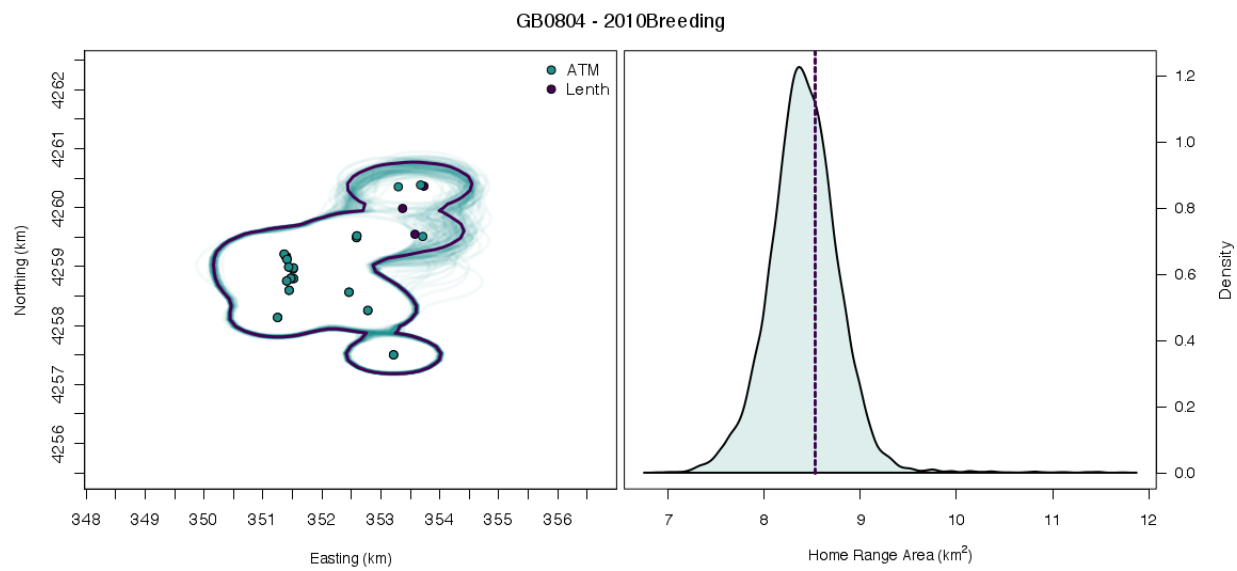


(b)

Figure 35



(a)



(b)

Figure 36

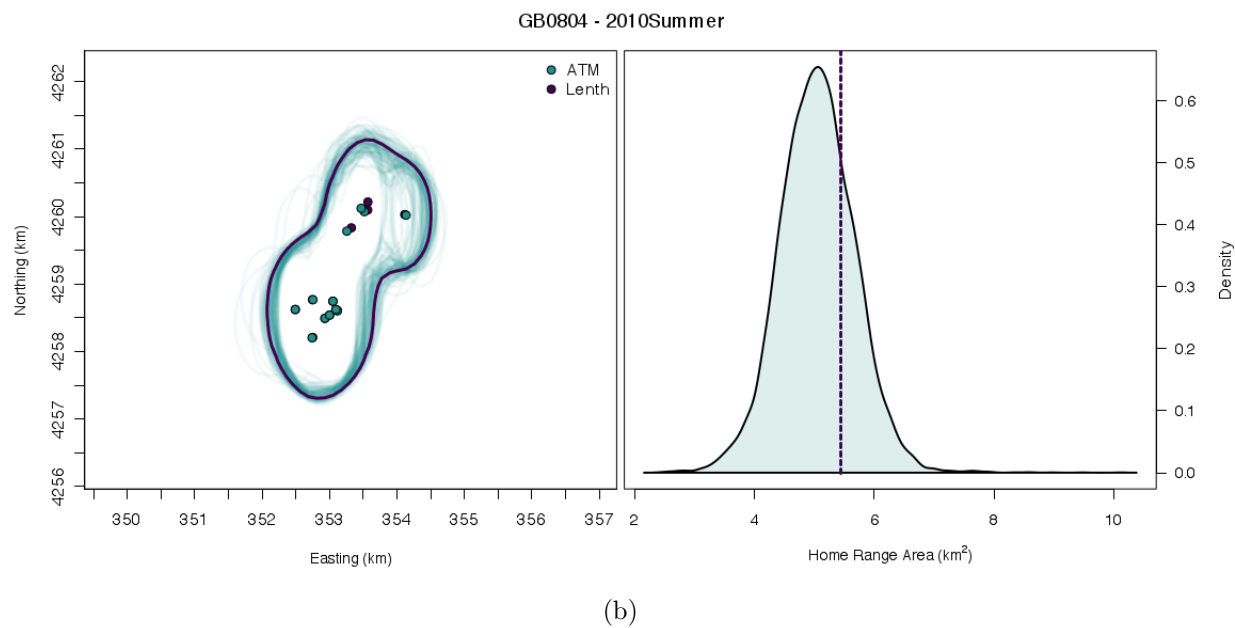
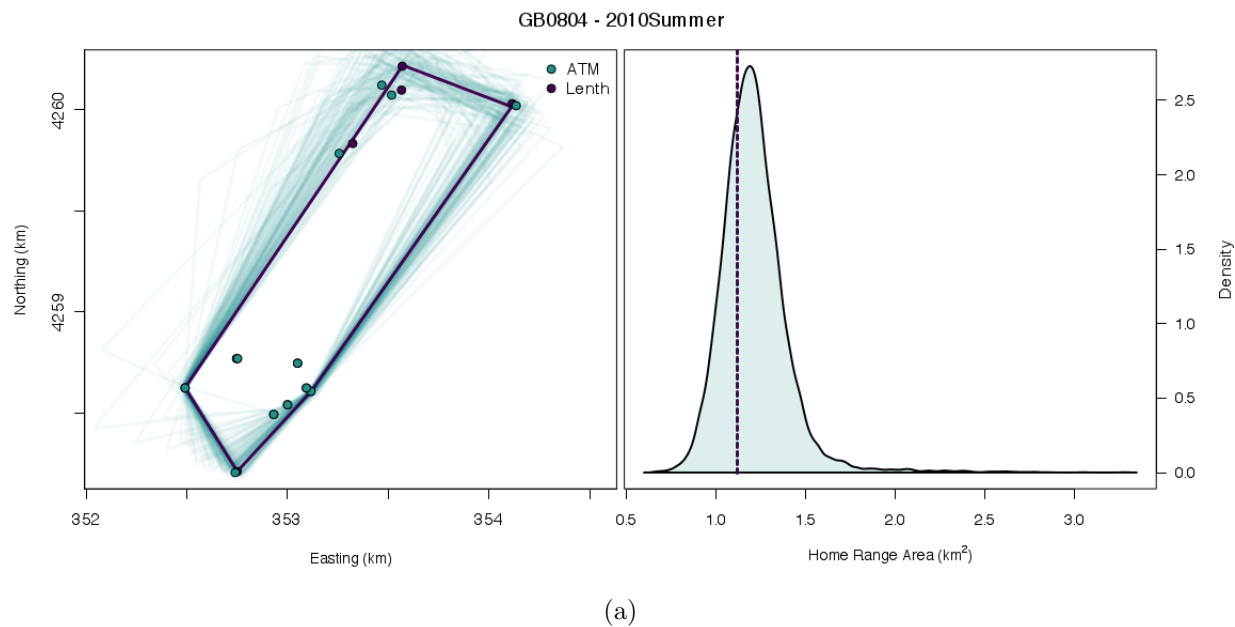
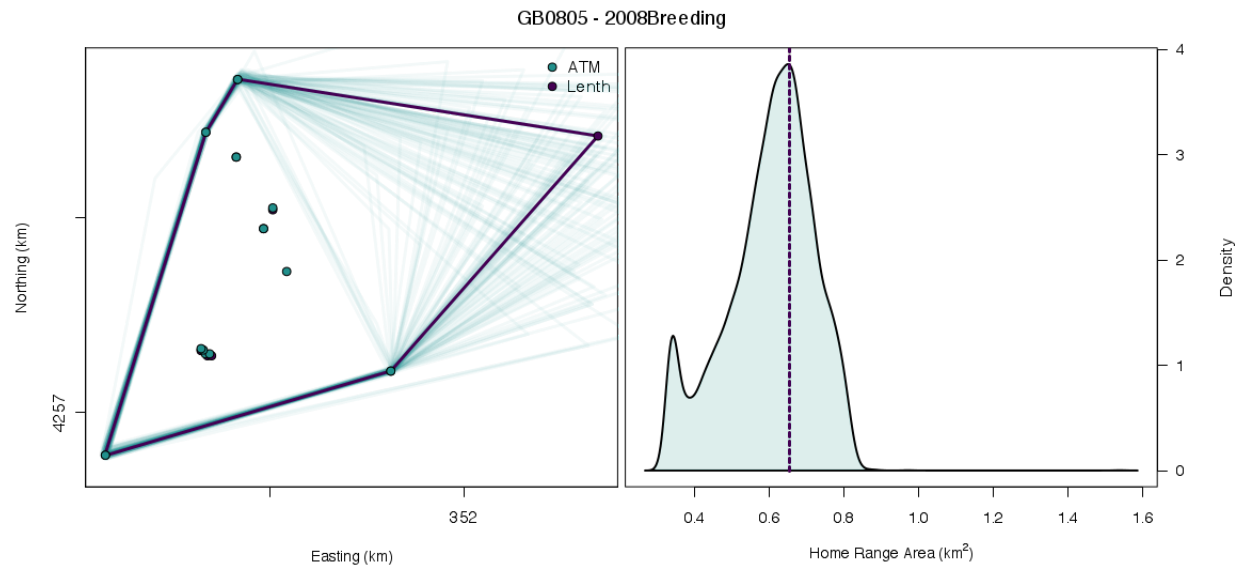
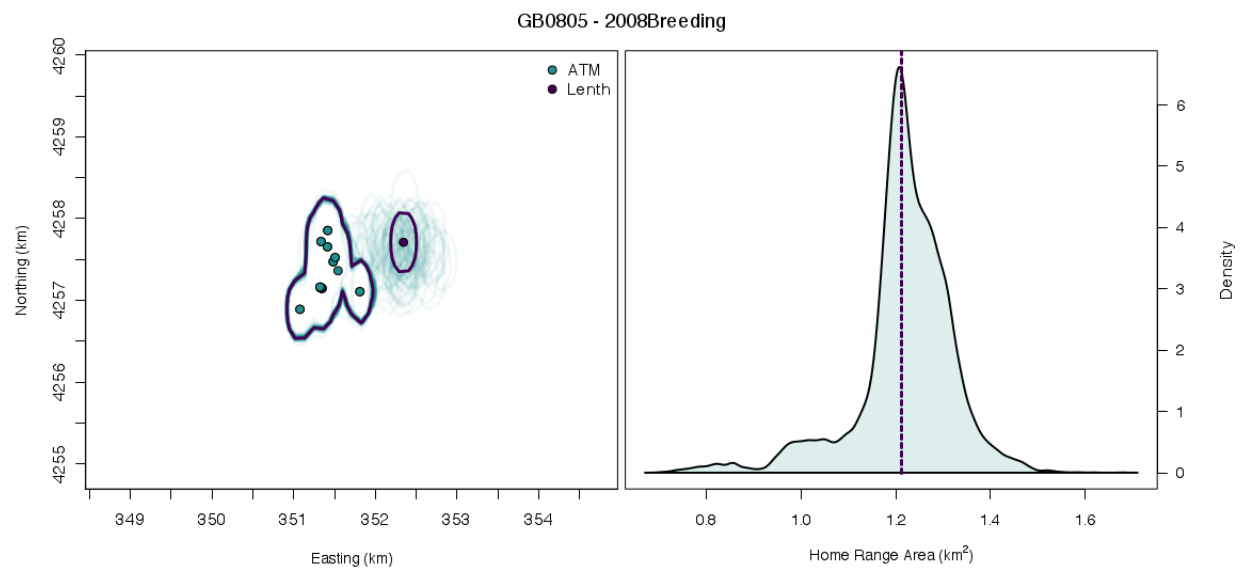


Figure 37



(a)



(b)

Figure 38

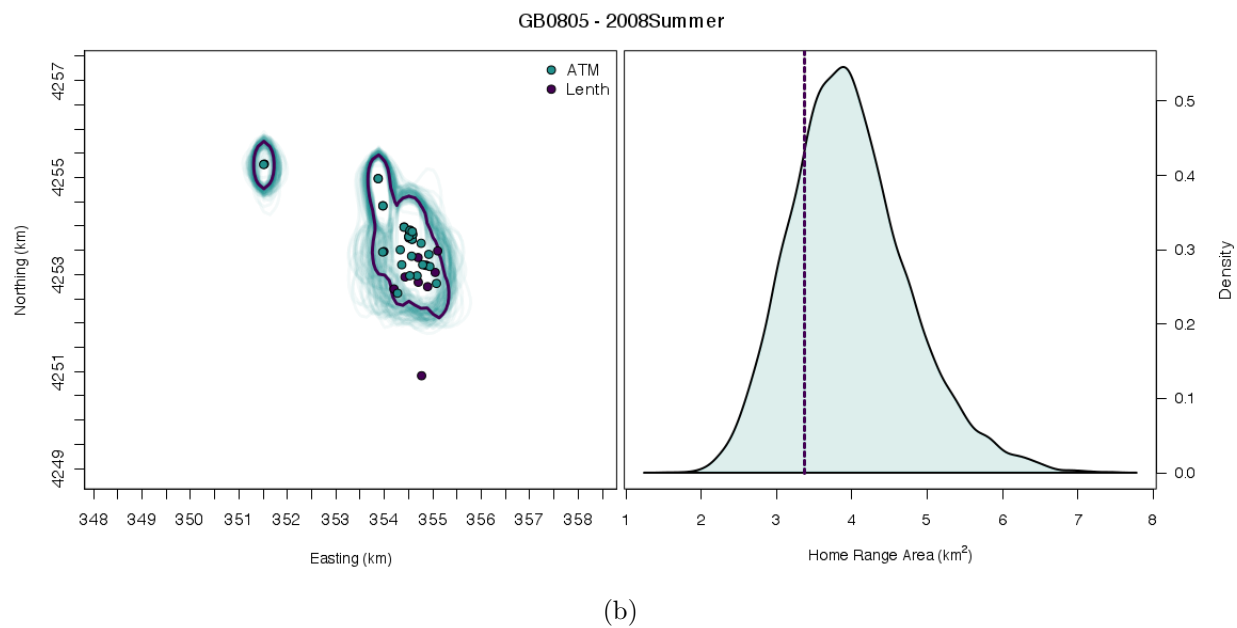
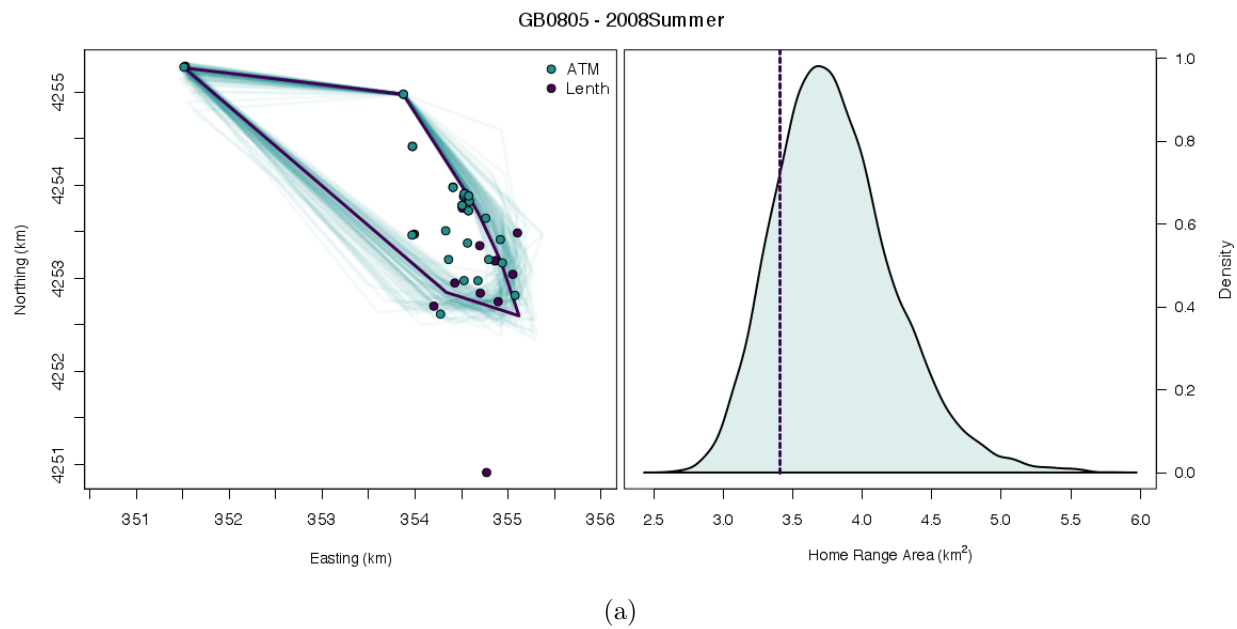
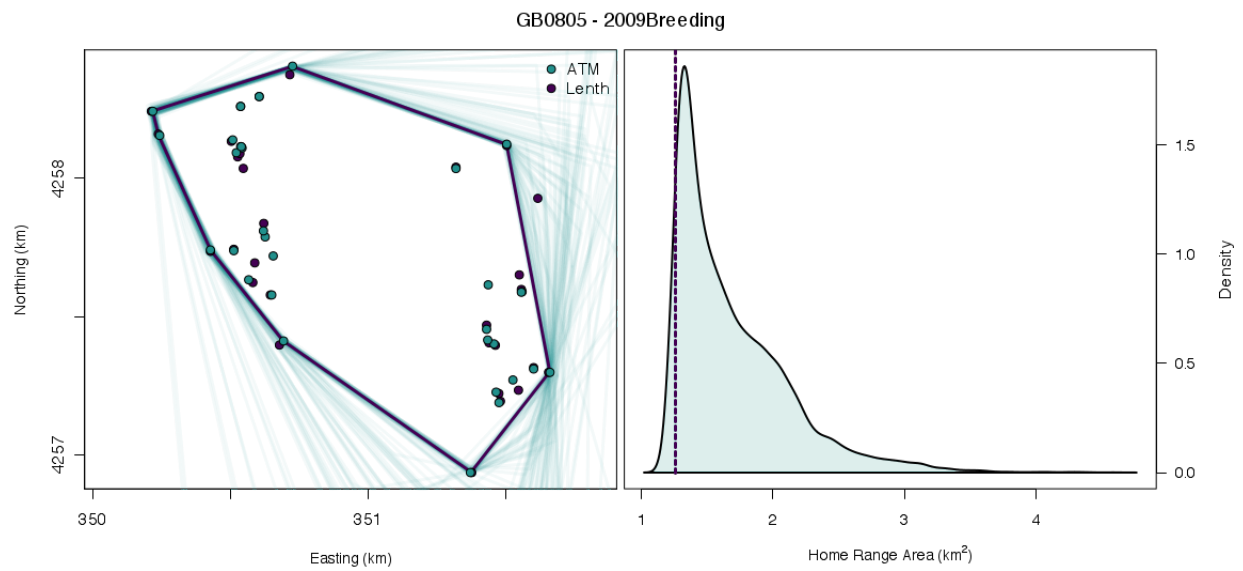
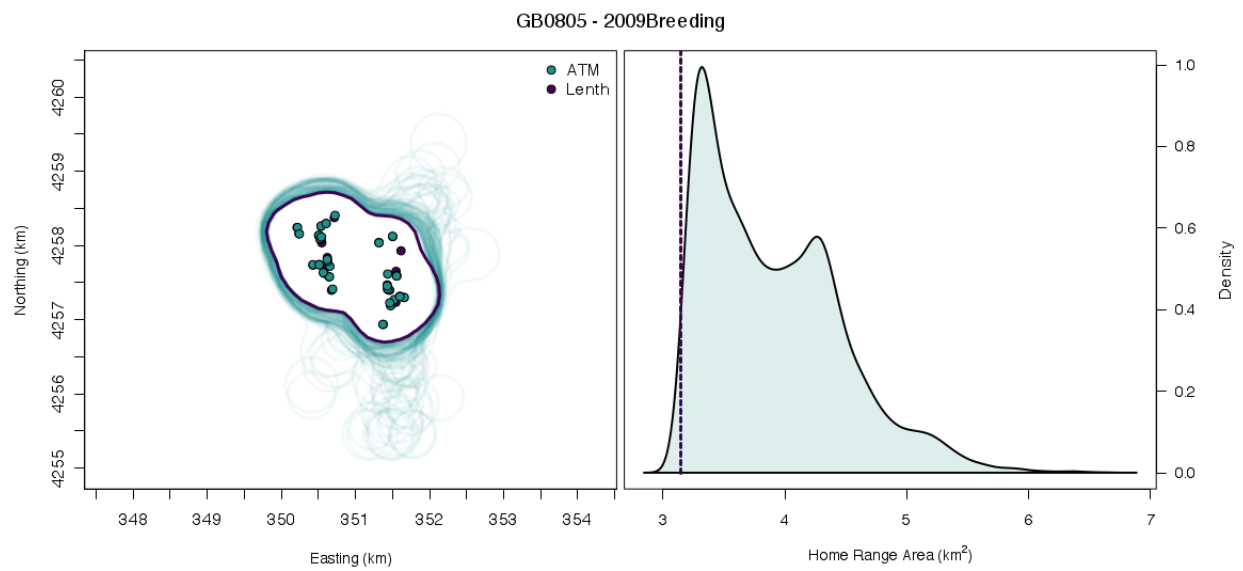


Figure 39

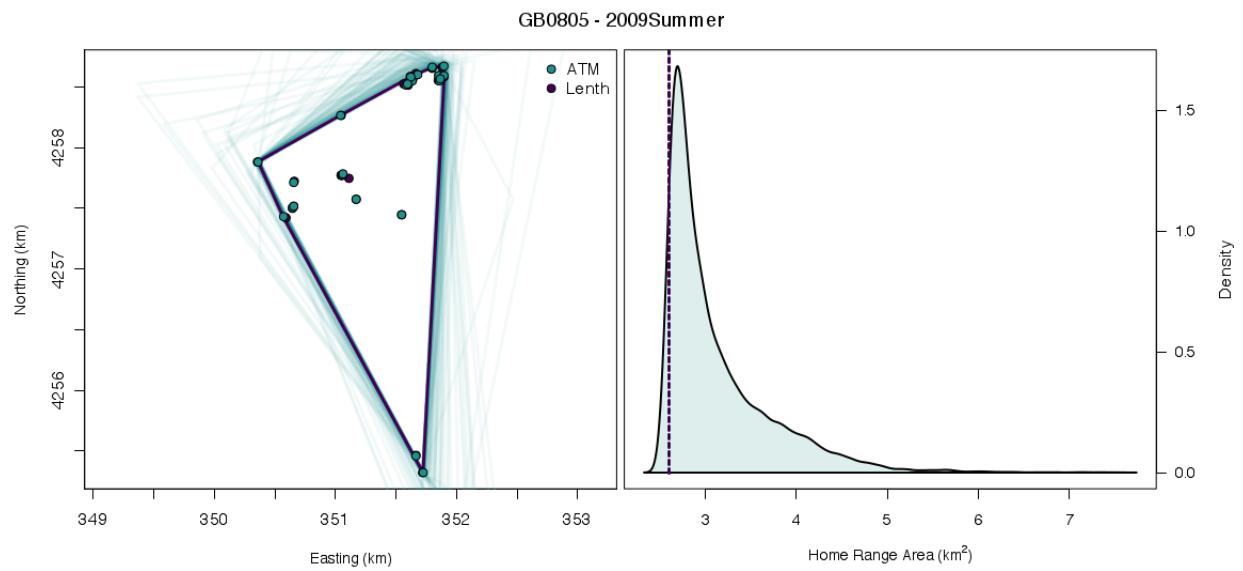


(a)

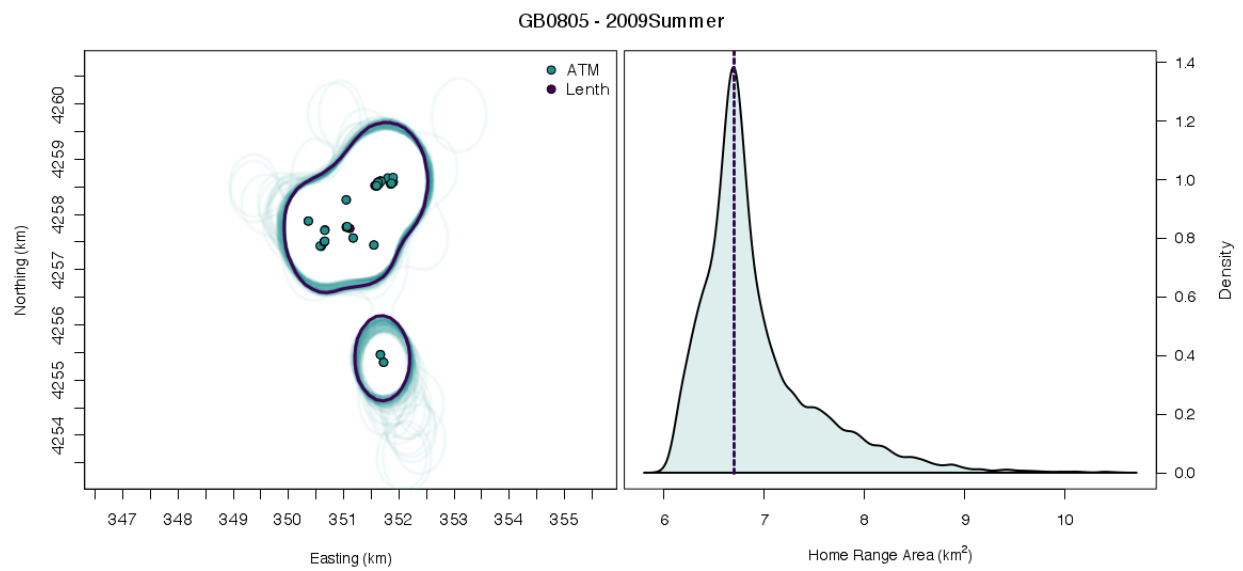


(b)

Figure 40

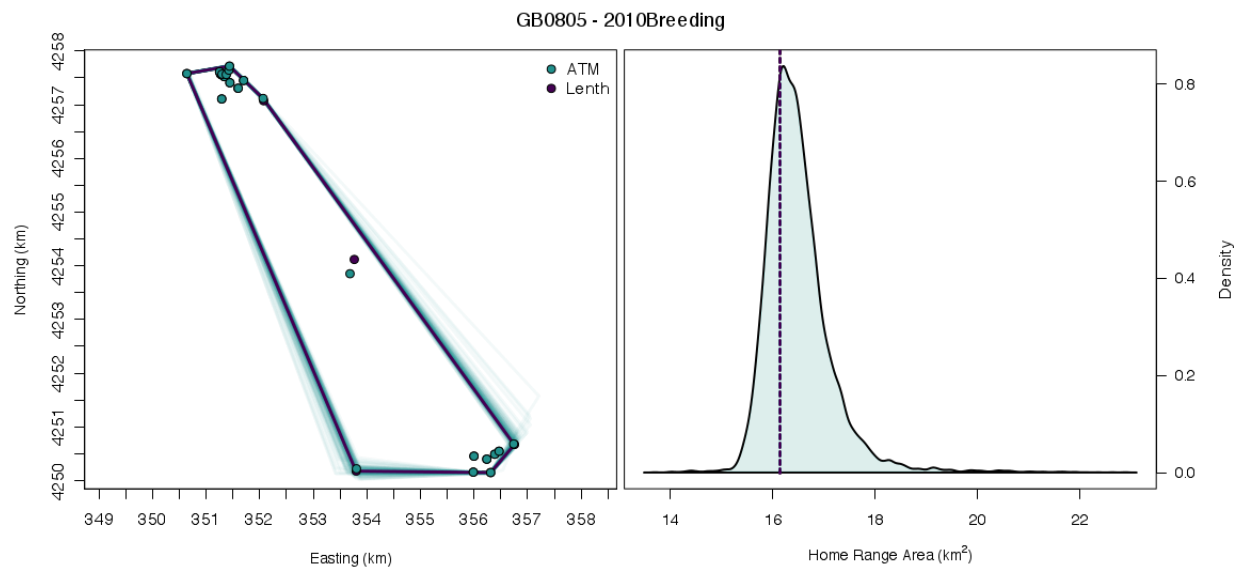


(a)

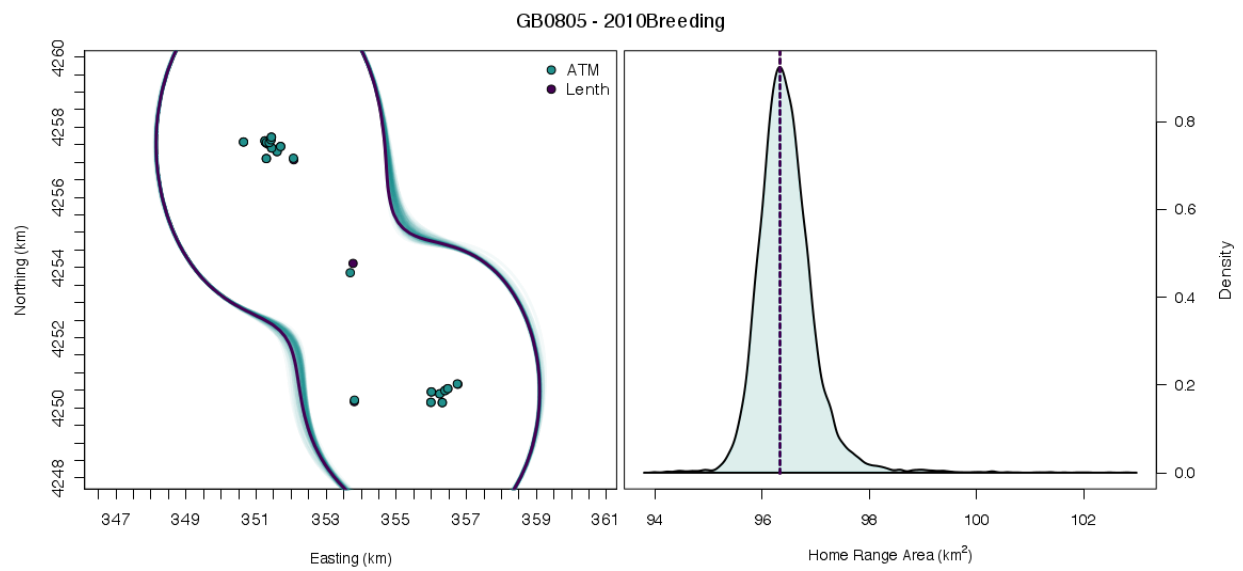


(b)

Figure 41

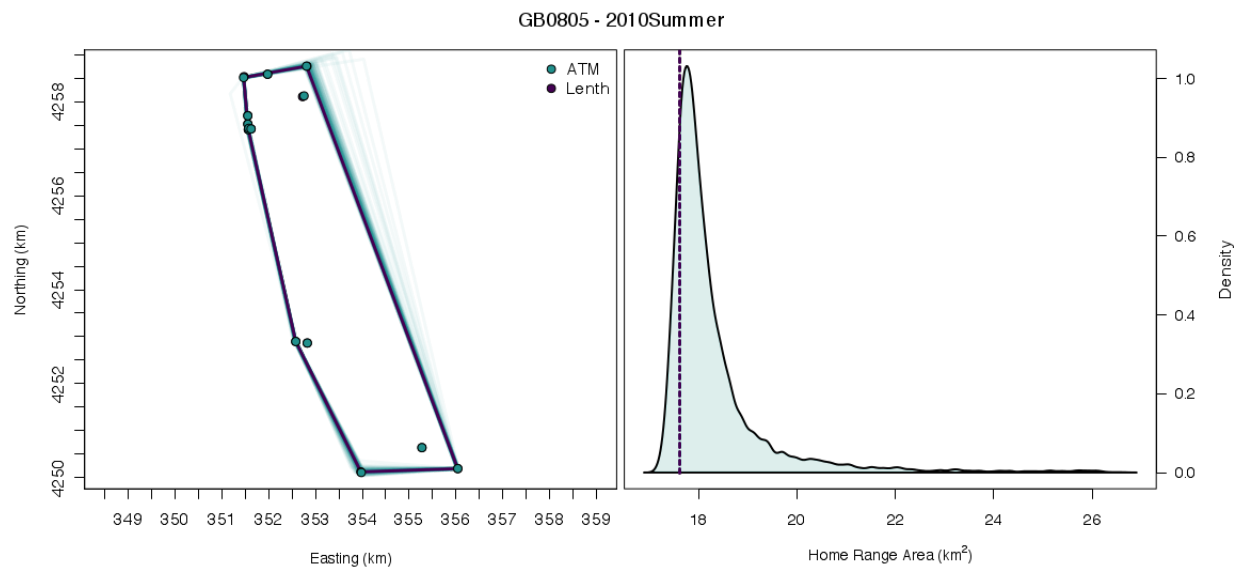


(a)

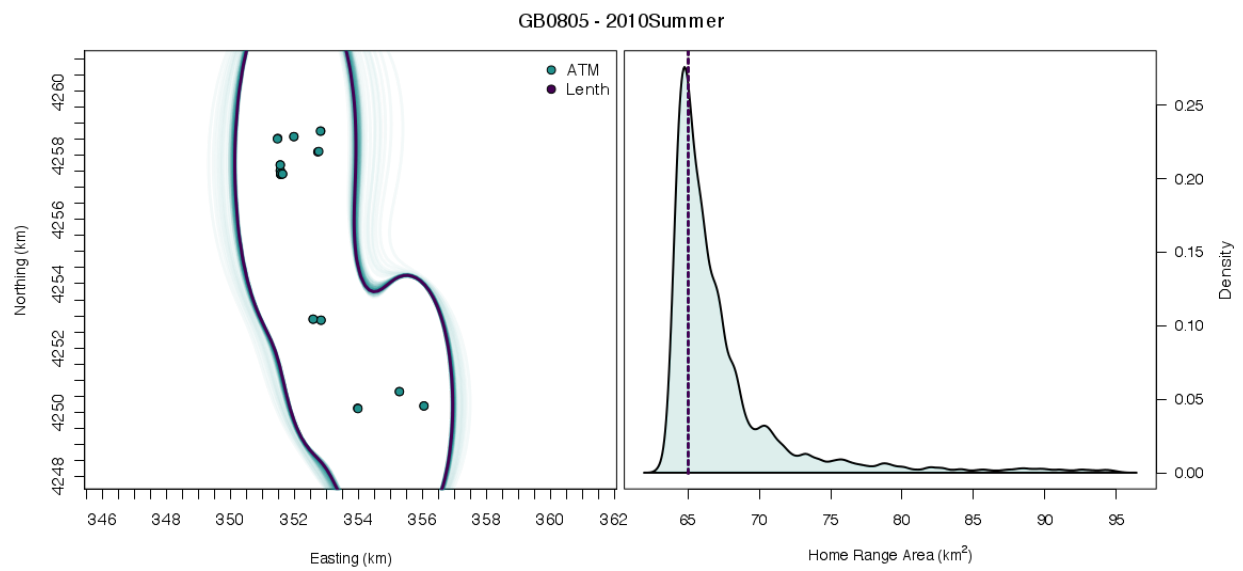


(b)

Figure 42

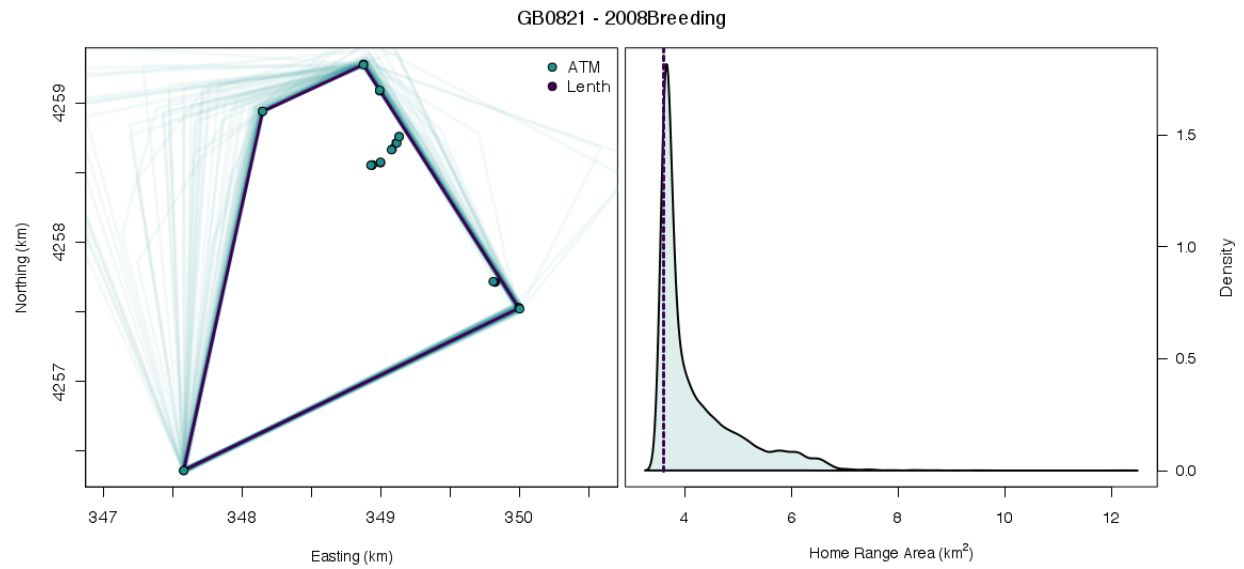


(a)

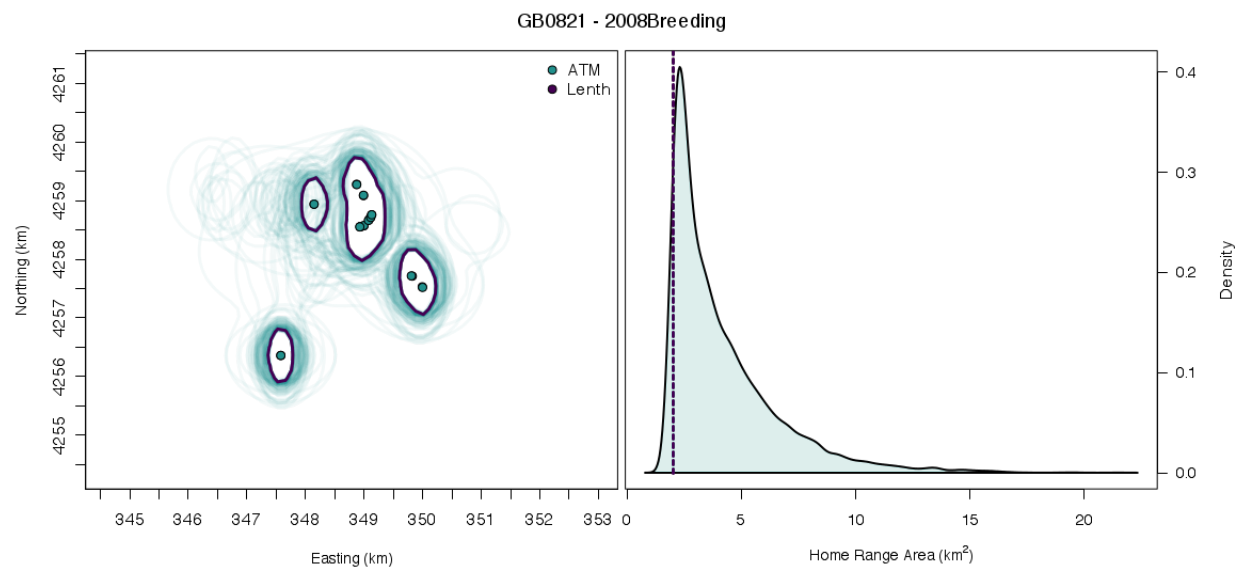


(b)

Figure 43

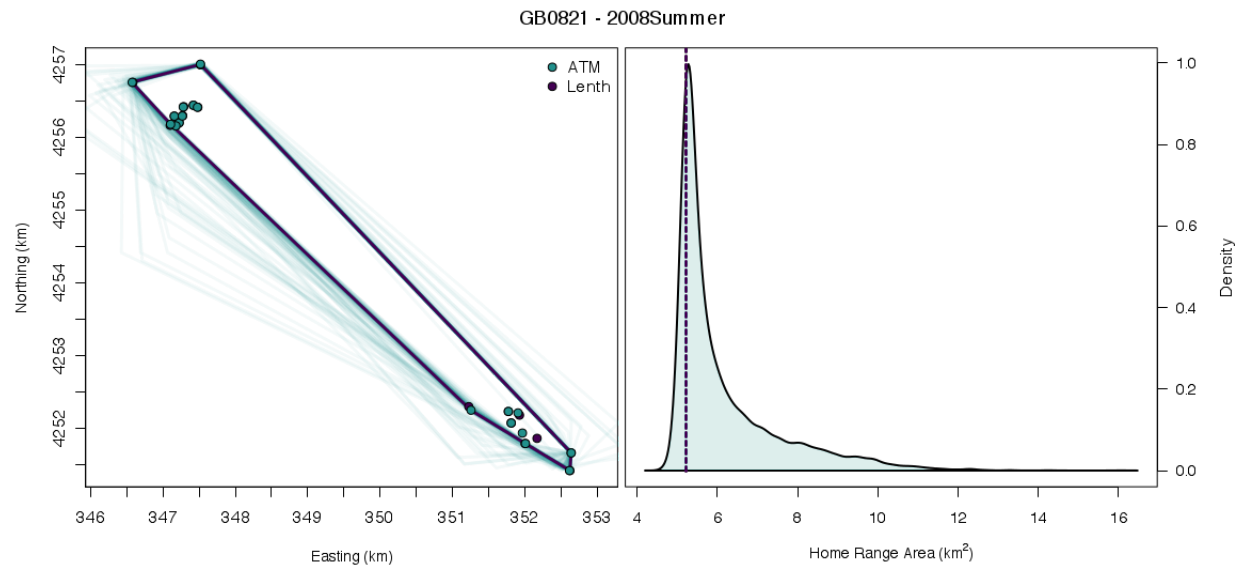


(a)

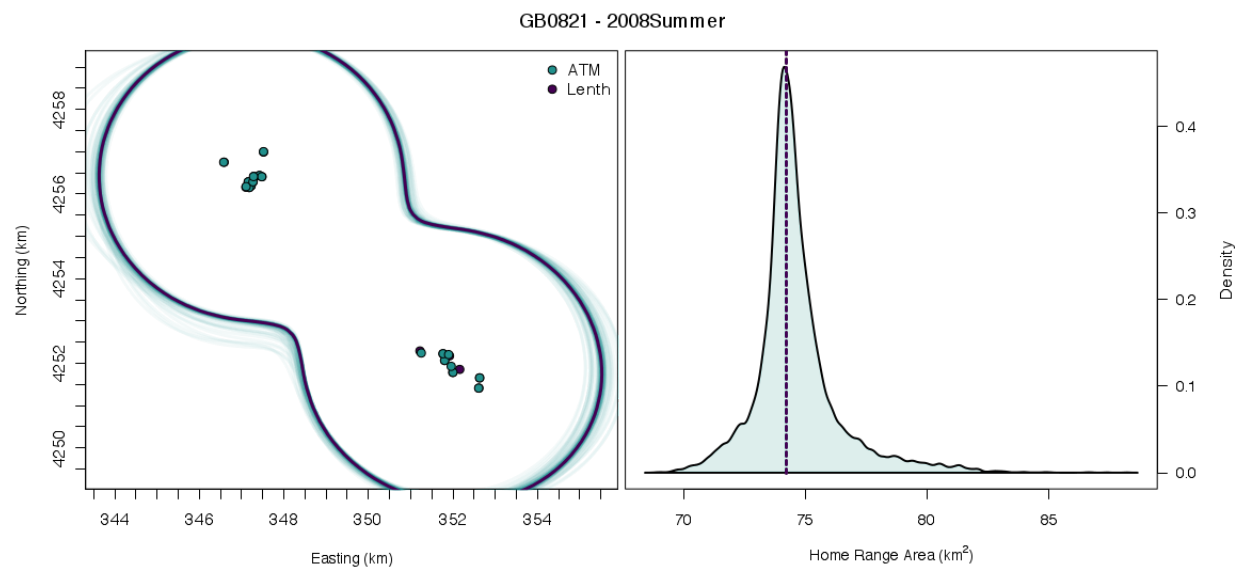


(b)

Figure 44



(a)



(b)

Figure 45

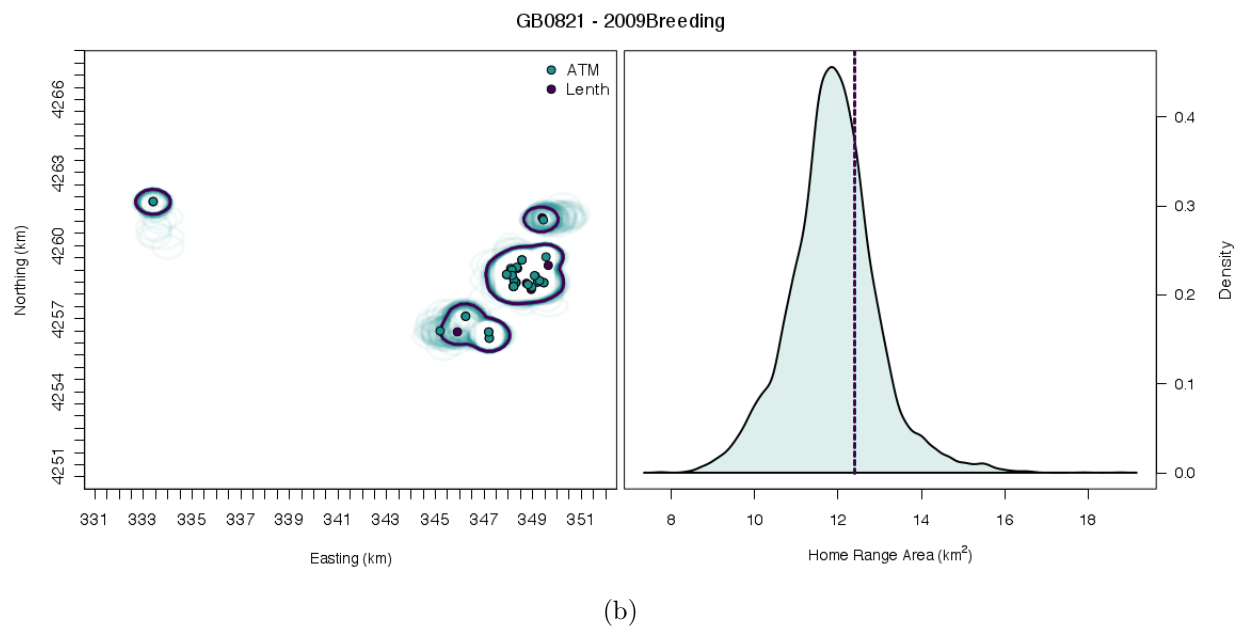
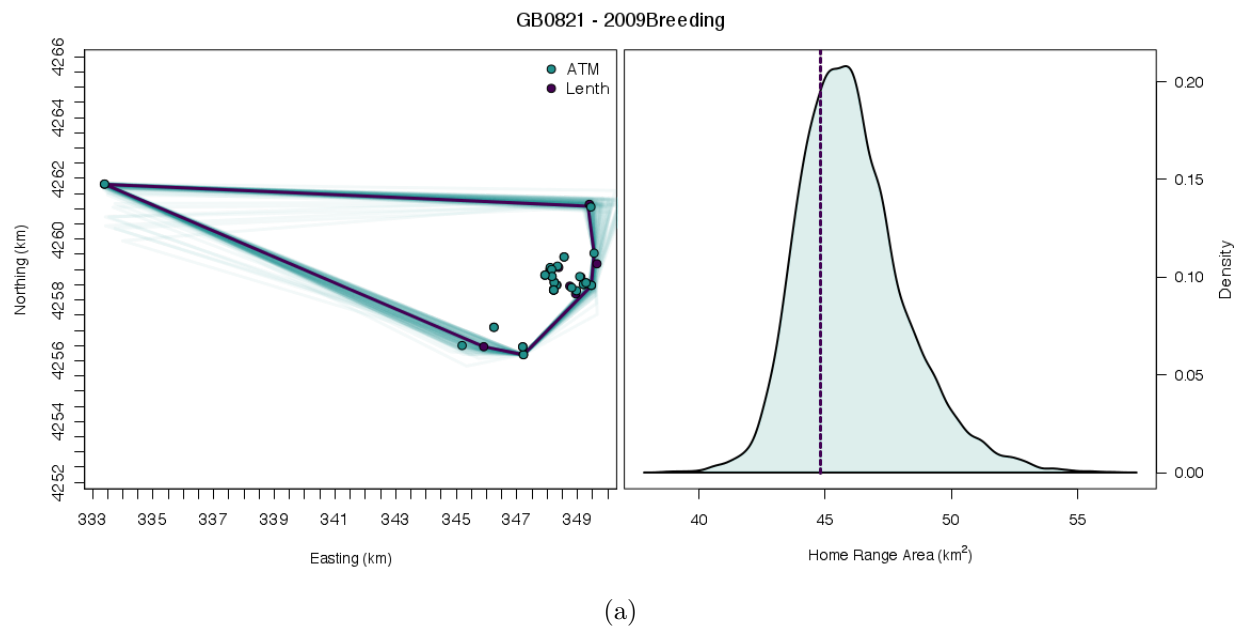


Figure 46

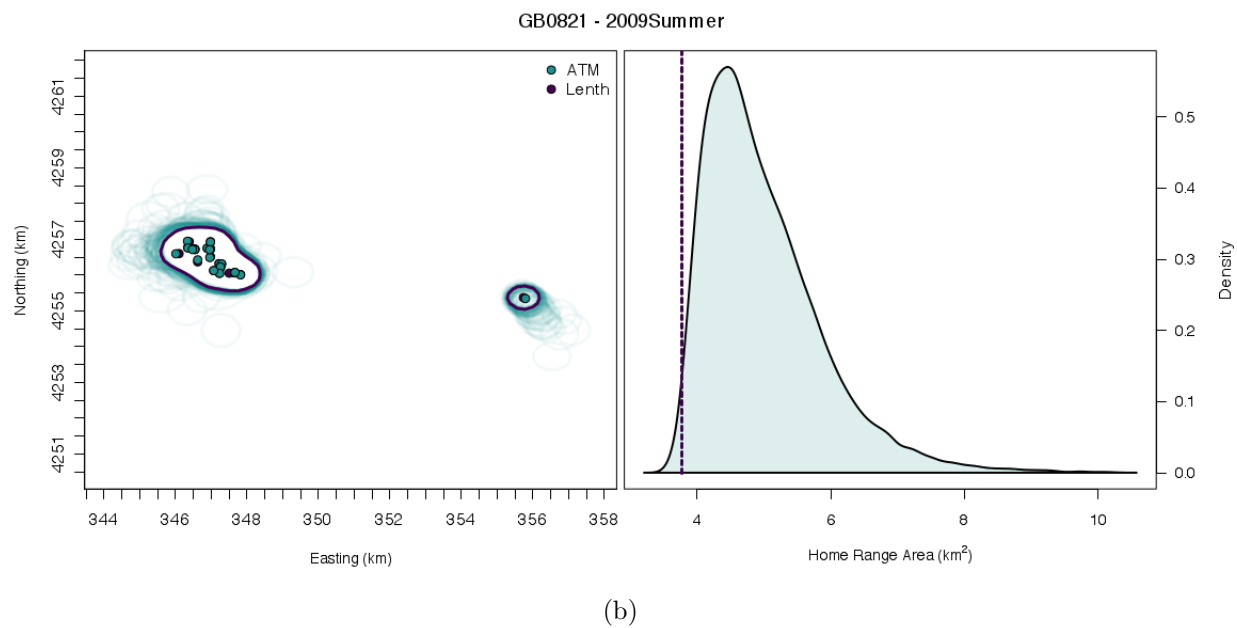
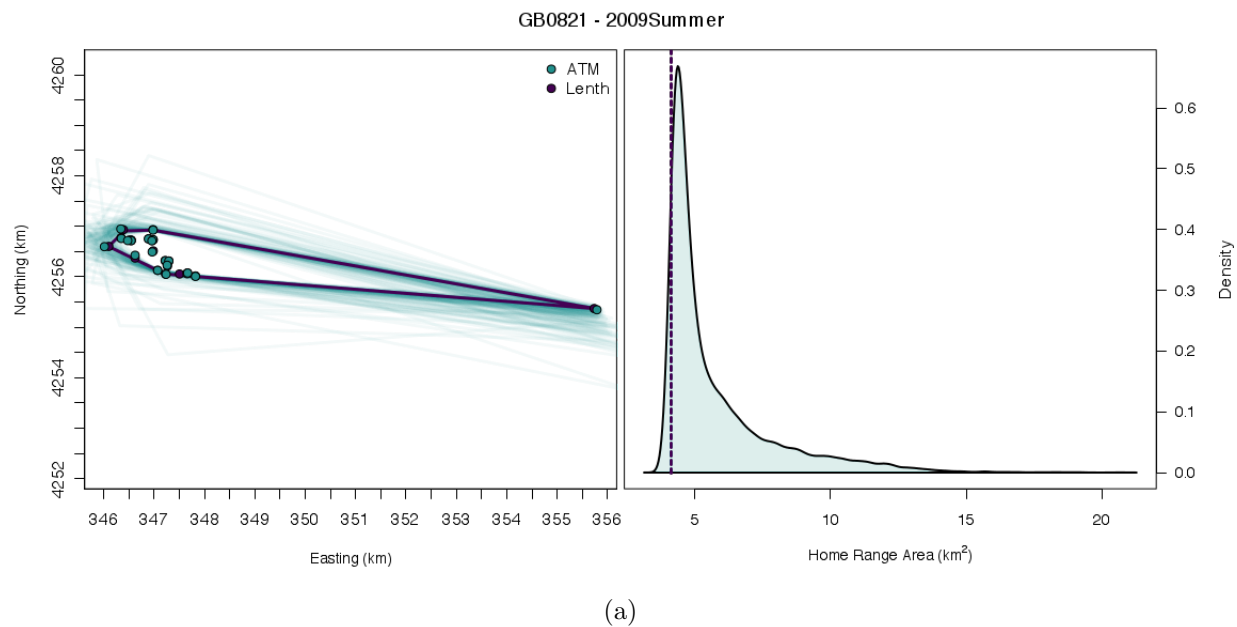
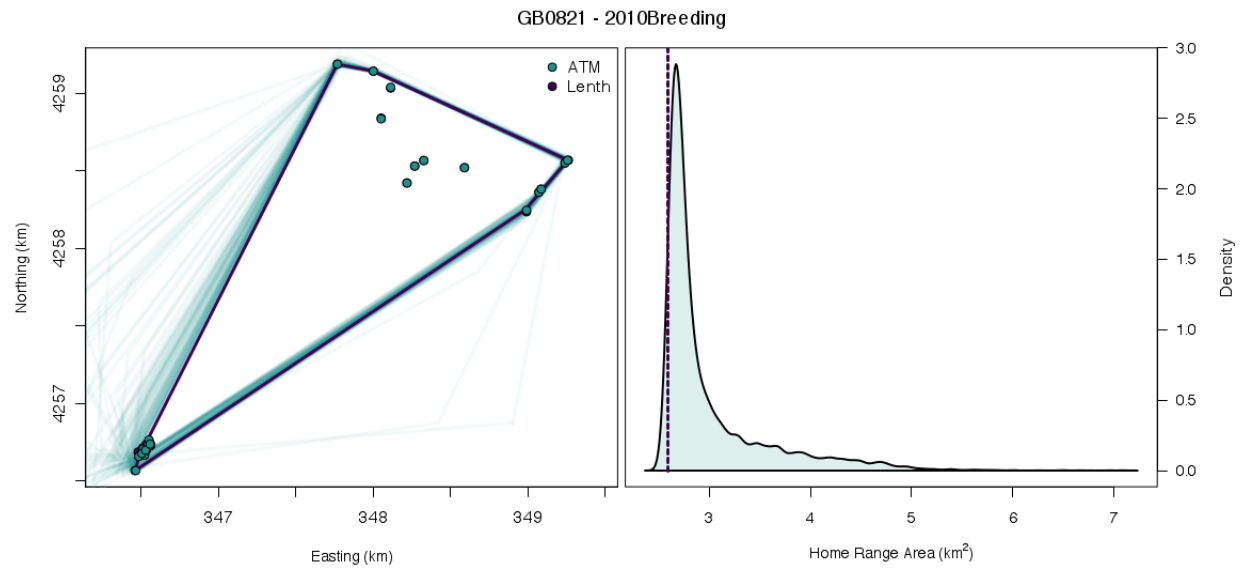
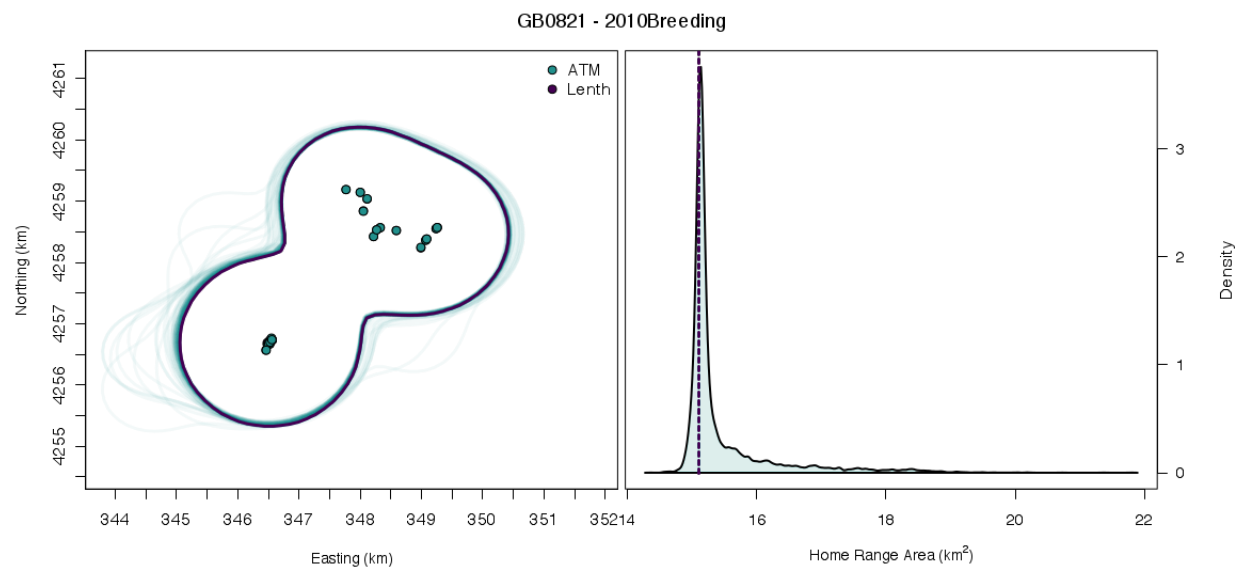


Figure 47

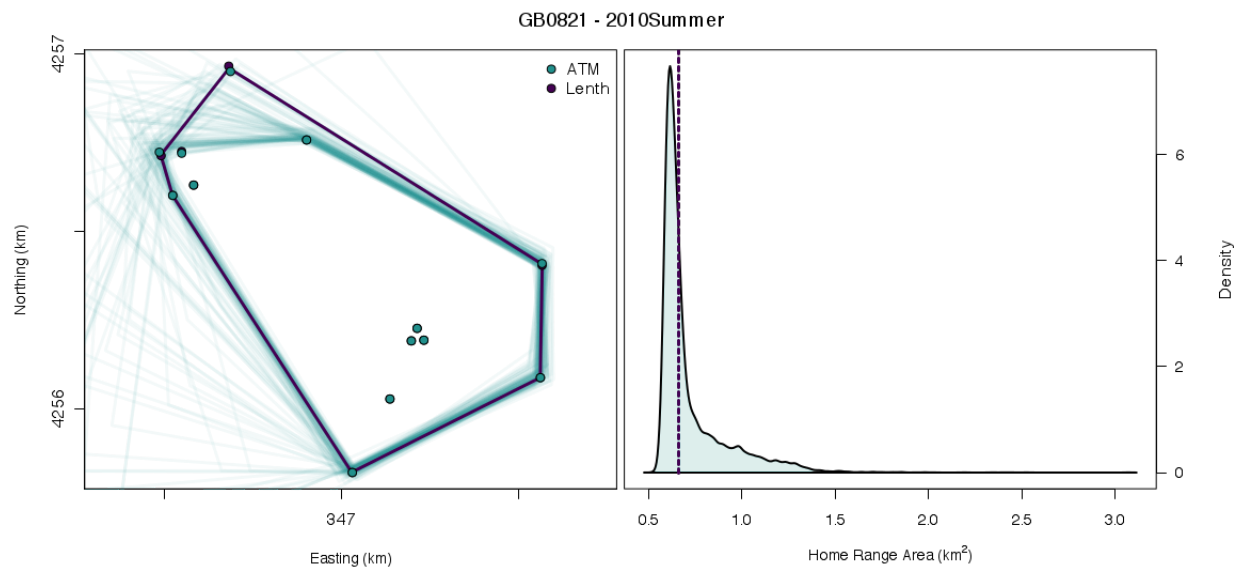


(a)

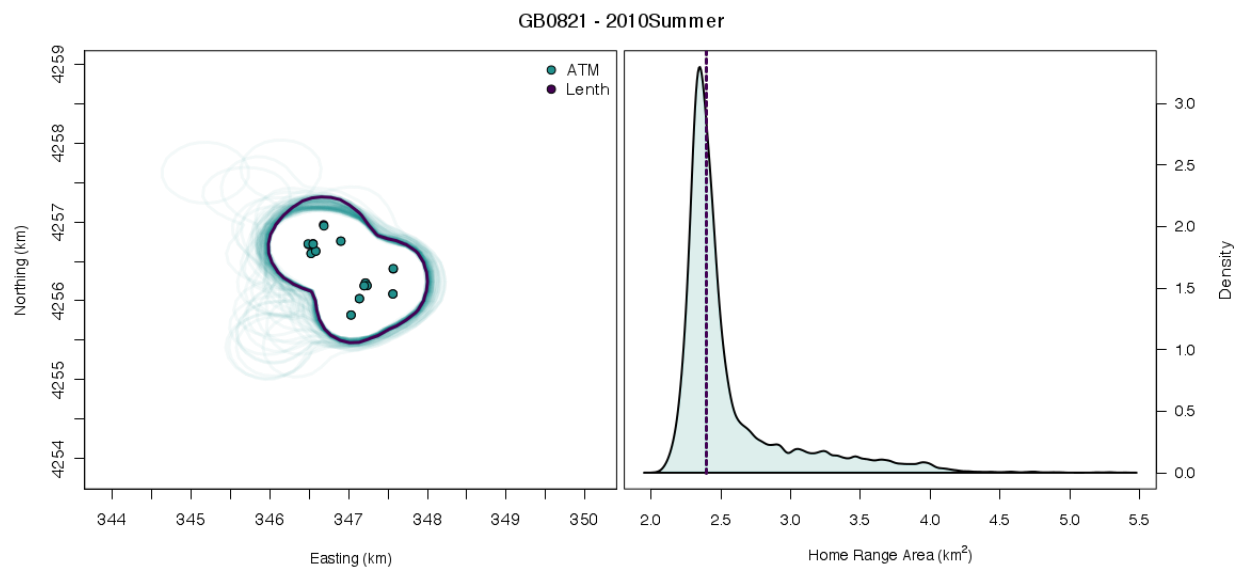


(b)

Figure 48



(a)



(b)

Figure 49