



**Fig S2.** Linear relationship between  $U_{bird}$  and  $U_{wind}$  per individual (graphs), showing all females (pink) and males (blue) per territory. Dashed lines indicate main axes and solid line indicates what would be a perfect linear fit between  $U_{bird}$  and  $U_{wind}$ . Generally all birds show a similar response to  $U_{wind}$ , although some birds have intercepts that differ from 0, which is what we would expect if birds vary in terms of innate migratory headings. In some birds the effect of sidewinds (i.e. the slope) seems to be greater than for others, but it is not immediately clear what individual differences would account for such a difference. Juveniles that originated from the same territory do not seem to differ in a consistent way from individuals on other territories, i.e. siblings do not seem to behave more similar than other juveniles.