

# Individual identification of Black-throated Divers

Pekka J. Lehtonen  
pelehtonen@gmail.com

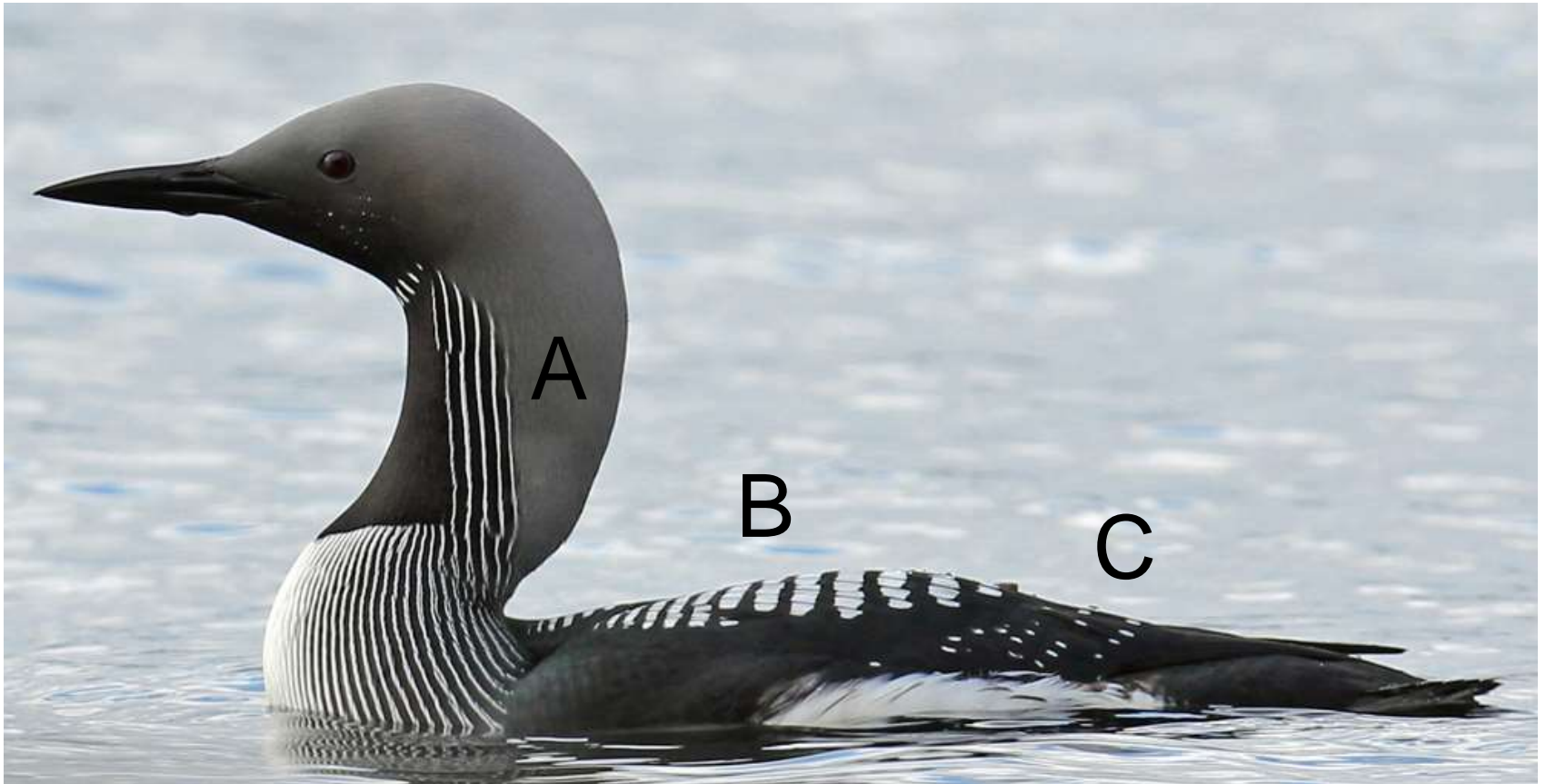


female

male

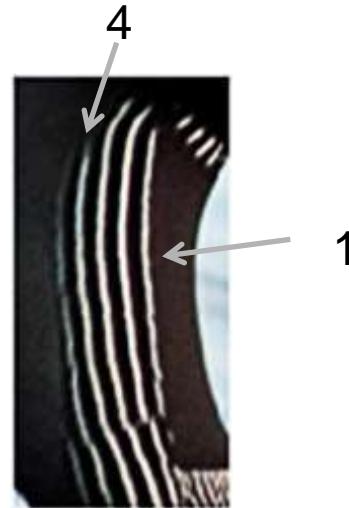


# Identification points



# Neck stripes of 130 Black-throated Divers

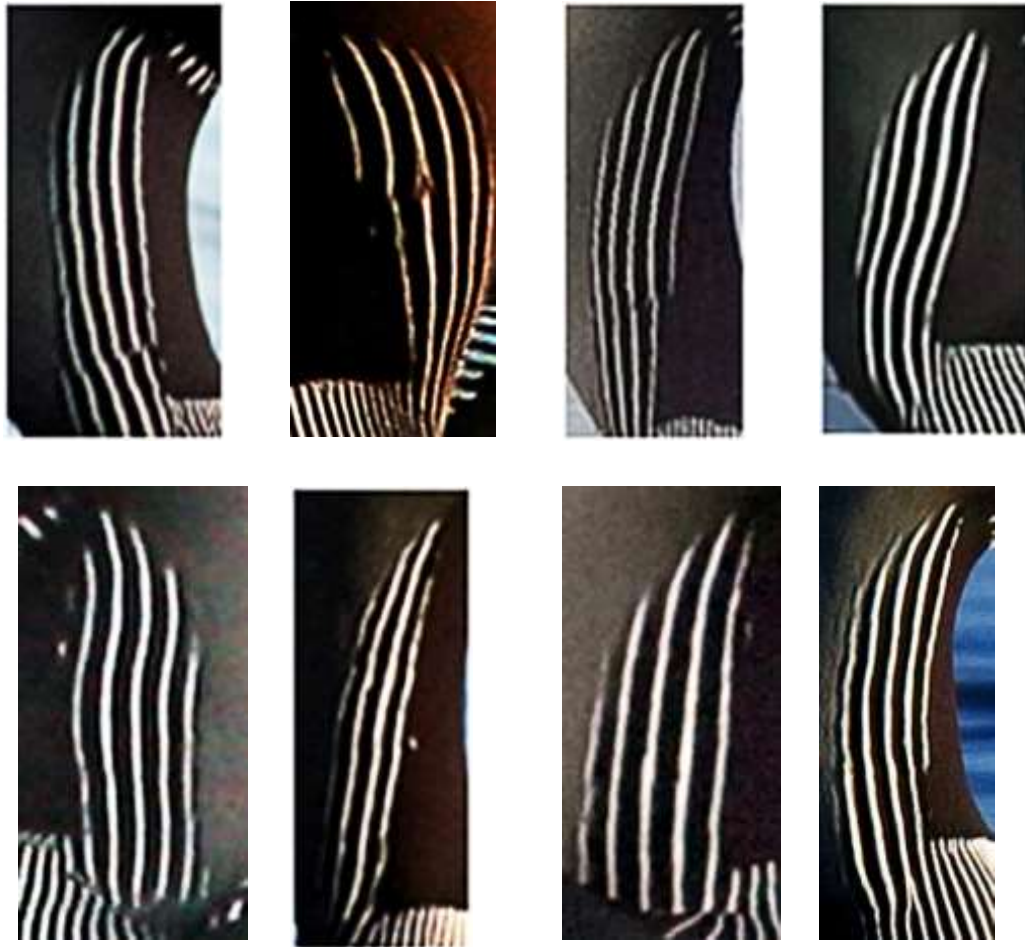
- 5 stripes 80 %
- 4 stripes 9 %
- 6 stripes 9 %
- 7 stripes 2 %



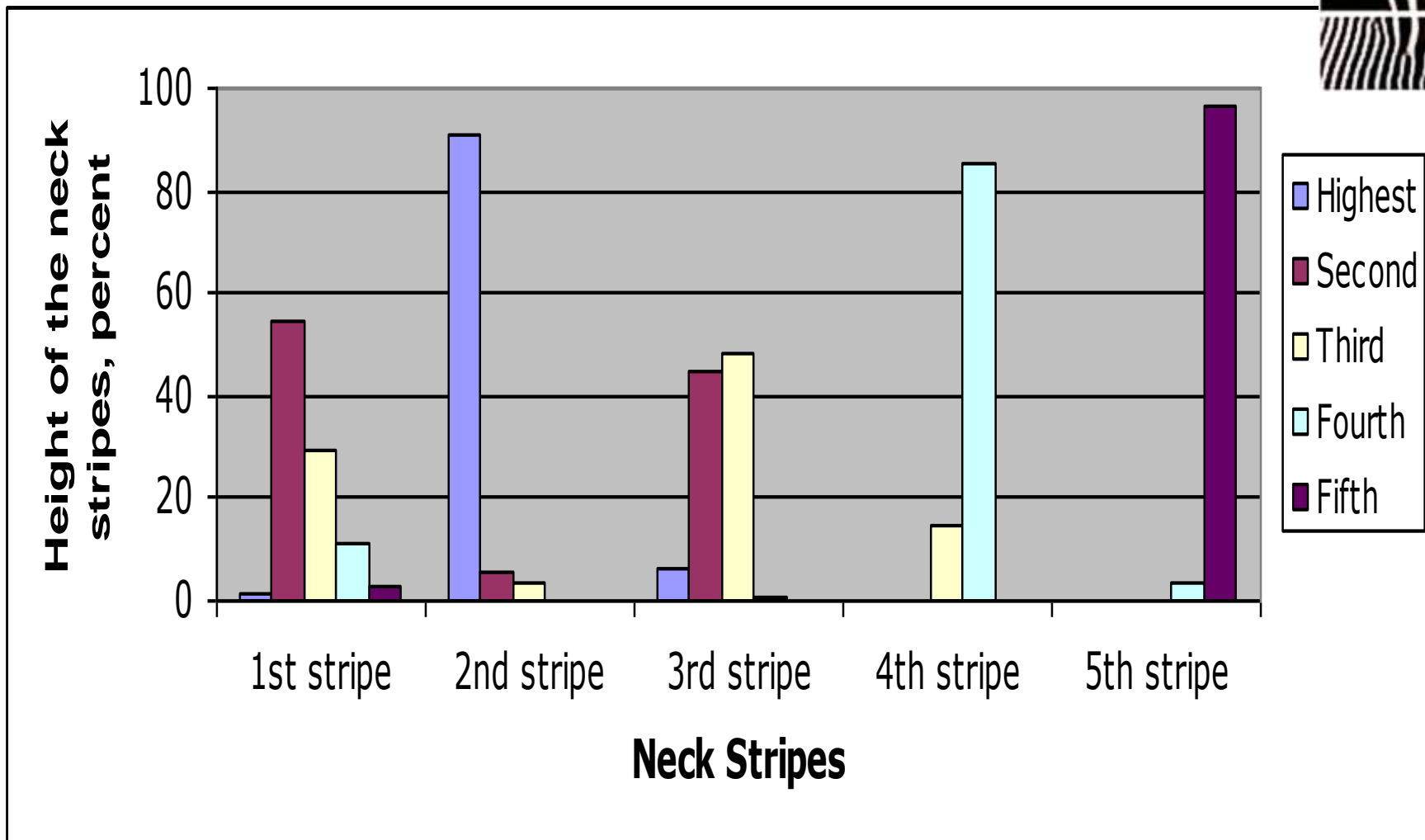
- in one third of the cases first and also the stripes 5-7, when existing, were faint and narrow and often shorter than stripes 2-4
- in 31 % of the cases there were special features facilitating the individual identification



In 31 % of BTDs there is deviations from normal in the stripes in the neck



# Order of height of the neck stripes of Black-throated Divers (n=130)



## Stripes do not form Y-forms

- Same female in photos taken with 9 min intervals

normally



temporal Y-form in stripes





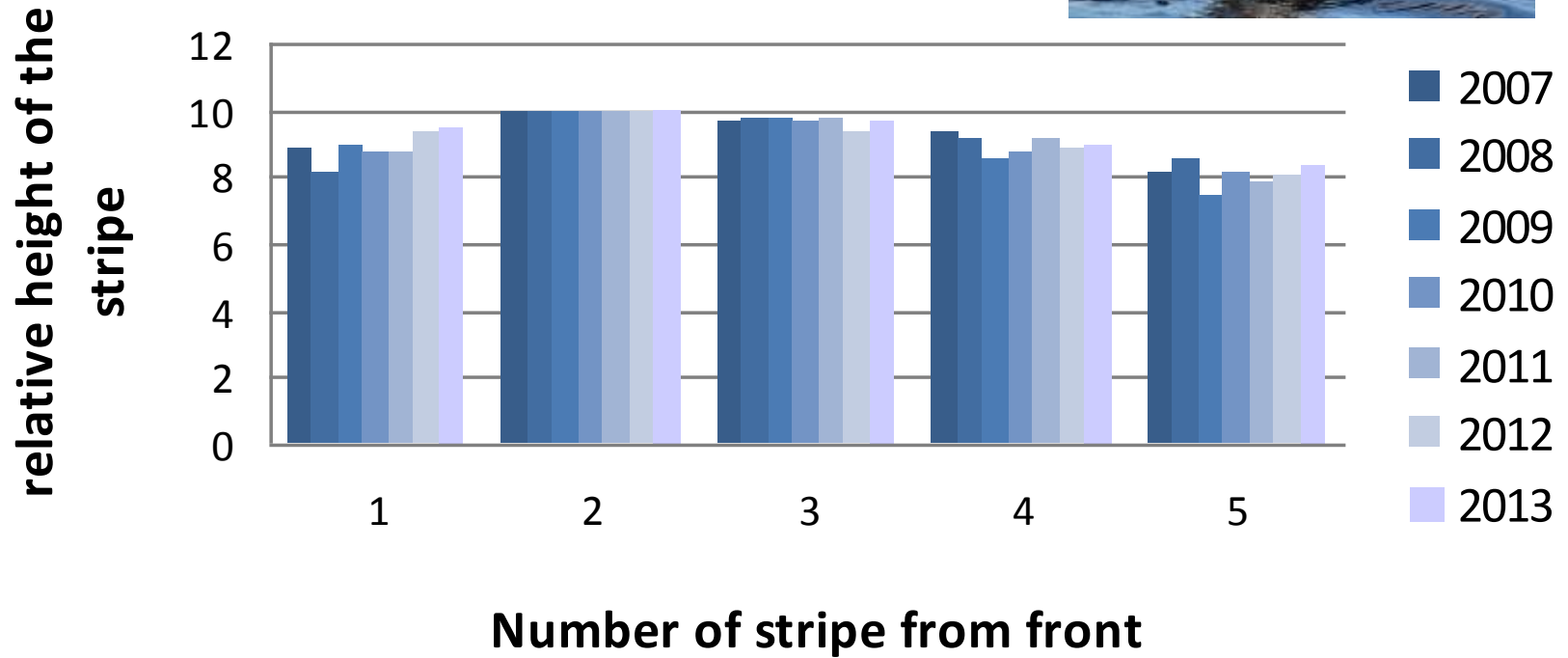




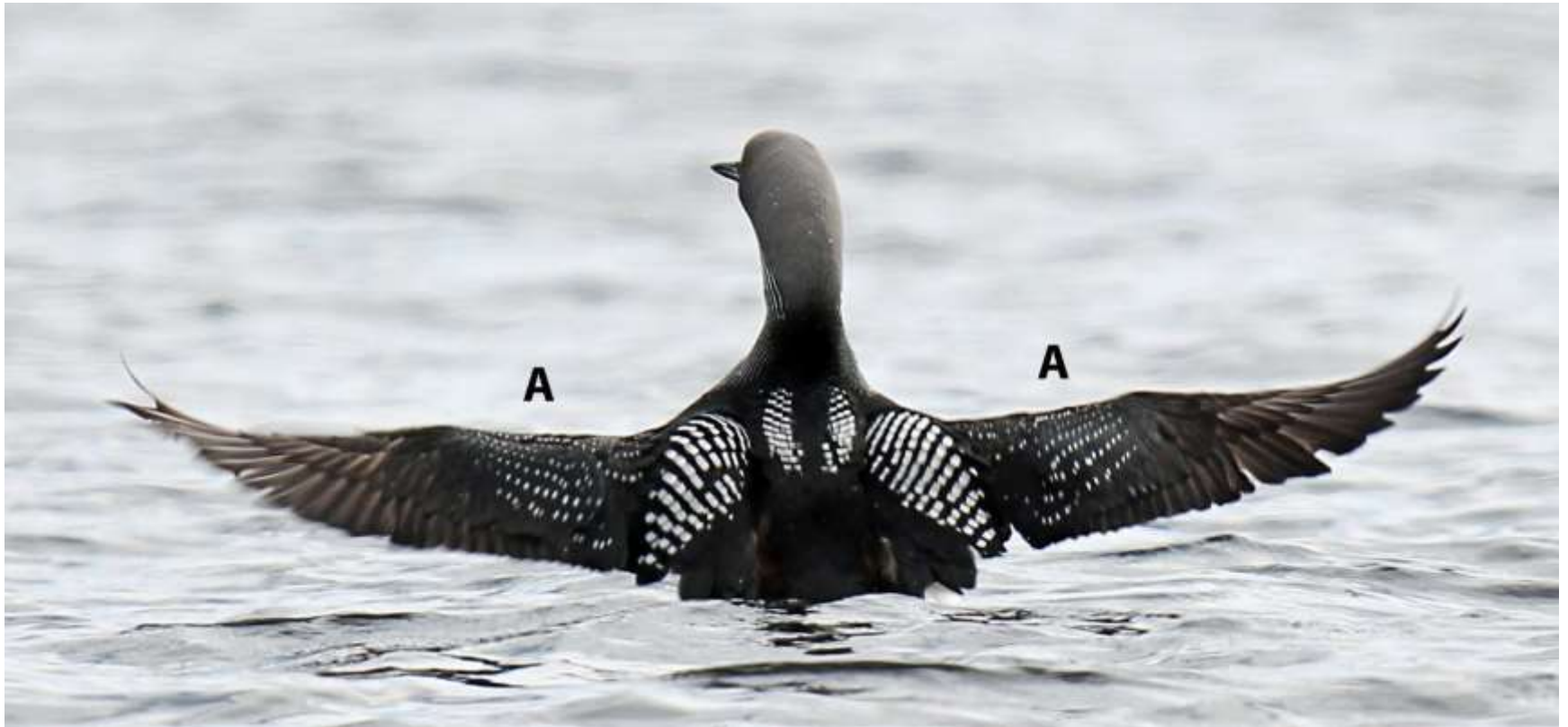
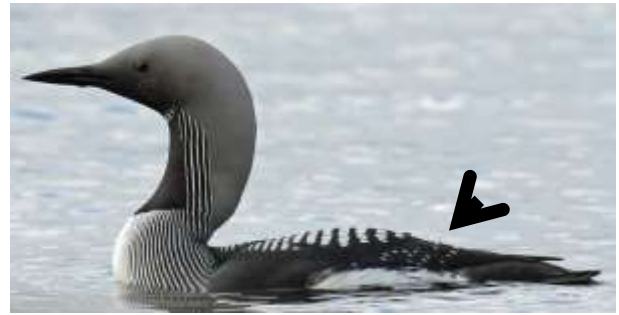
# Relative heights of the stripes



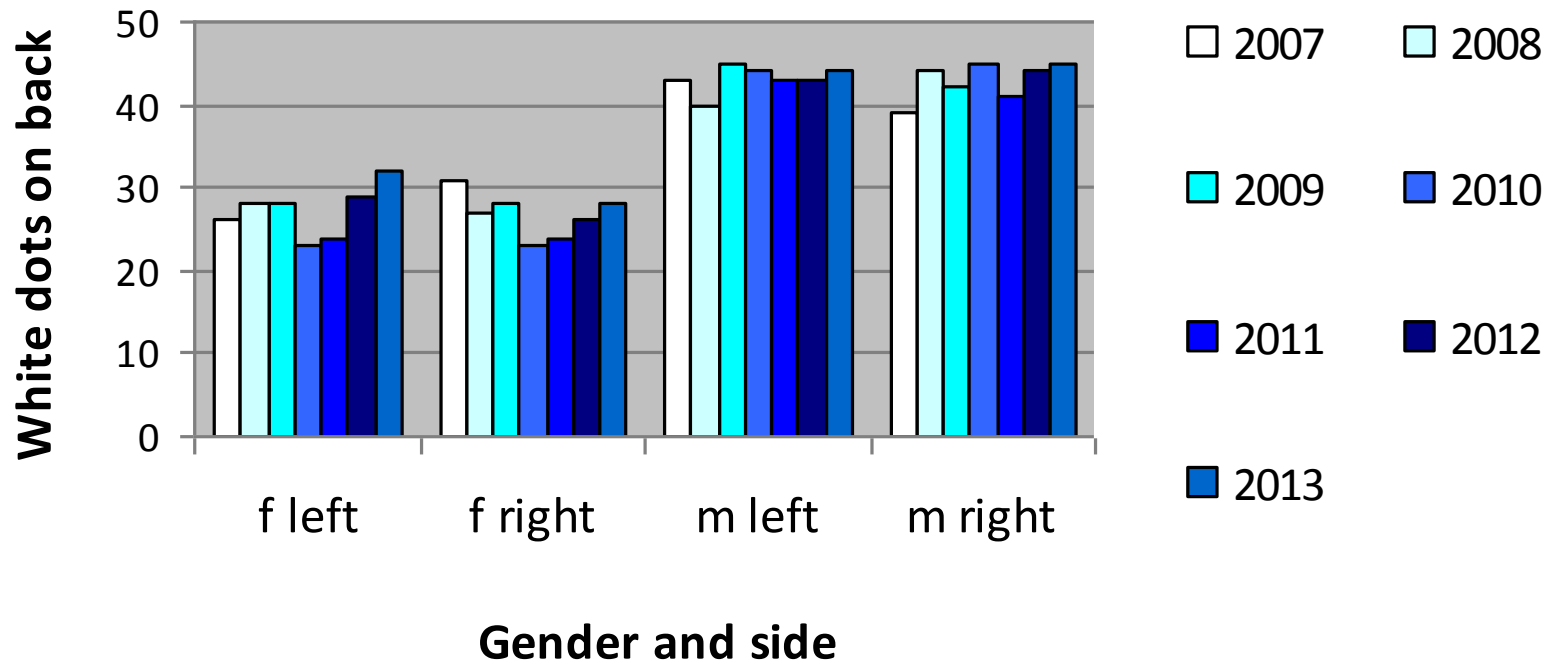
**Female, right**



# Dots in wings



# Number of dots on back



# Shape on stripes on shoulders, female in different years





# Conclusion



- Stripes, dots on back and shapes on shoulders can be used for individual identification often remaining the same from summer to summer
- Most reliable individual identification can, however, be achieved if these include deviations from the normal