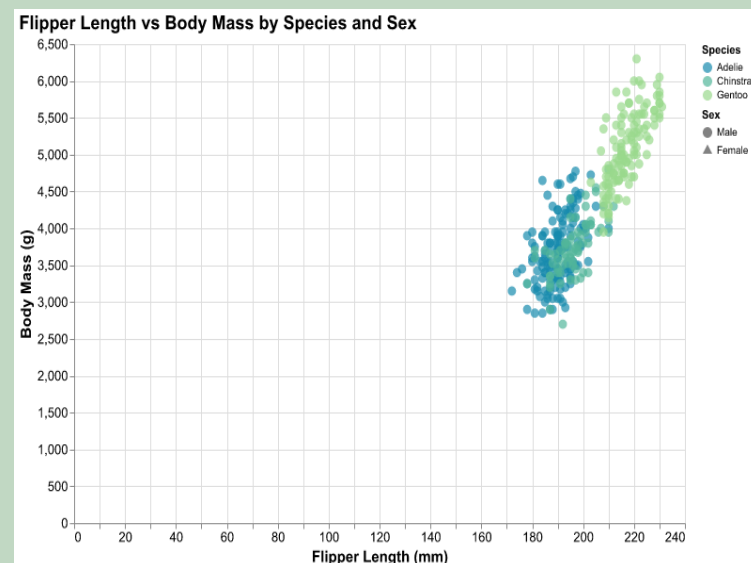


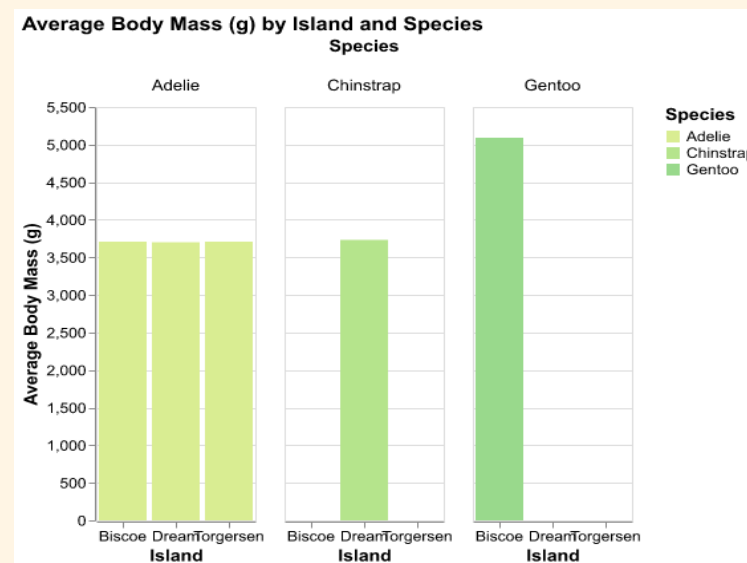
Introduction

This study examines how location, sex, and flipper length influence penguin body mass. Visualizations reveal relationships between flipper length and body mass across species and sexes. Results compare body mass variations by island, species, and sex to understand key influencing factors.

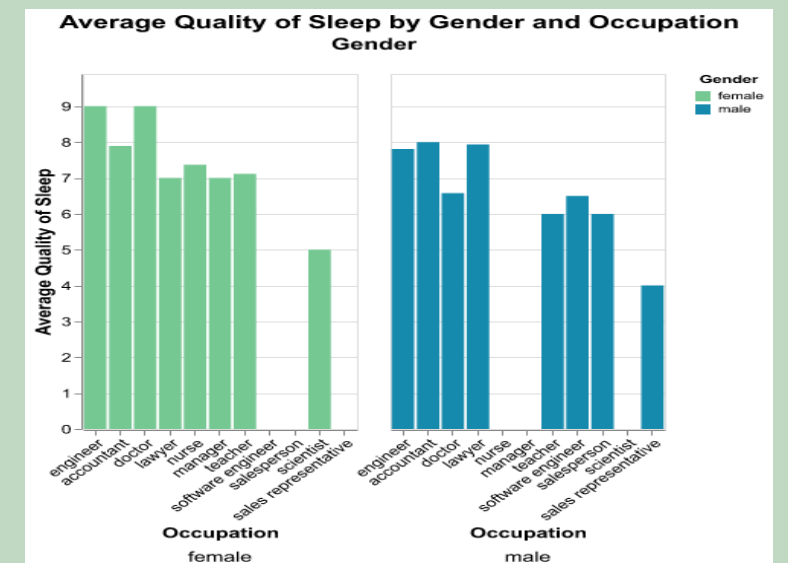
Is Flipper Length and Location Major Factors in Penguin Body Mass?



Flipper length positively correlates with body mass; Gentoo penguins are largest, males generally exceed females within species.



Gentoo on Biscoe Island has the highest body mass (~5092 g); Adelia and Chinstrap show similar masses around 3700 g.



The chart shows average sleep quality by sex across occupations, not body mass by species and island.

Conclusion

Penguin body mass is positively related to flipper length across species. Gentoo penguins have the largest flipper lengths and body mass. Males generally have larger flipper lengths and higher body mass than females within species. Body mass varies by island, with Biscoe Island penguins being heaviest. Location influences penguin body mass, with some islands showing higher averages. Sex affects body mass, as males tend to be larger than females. Flipper length is a key factor influencing body mass among penguins. Overall, location, sex, and flipper length significantly impact penguin body mass variations.