

Title:**Selected anthropometric characteristics of windsurfers in Neil Pryde RS:X, FUN and RAC class****Abstract**

Diploma thesis compares selected anthropometric characteristics of athletes in each windsurfing class (FUN, NP RS: X and RAC).

Objectives

Determine the anthropometric differences between athletes sailing in different windsurfing classes. Find an anthropometric character affecting performance. Determine the appropriate weight for each windsurfing class.

Subjects and methods

Subjects were selected of athletes in windsurfing classes FUN, NP RS: X and RAC. For inclusion in the measurement were fixed boundaries 15th places in the Czech Cup or gaining points in the World Cup Series. Selected characteristics were obtained with the field anthropometric examinations. Data were statistically evaluated between athletes, and between athletes and the general population.

Results

Cluster analysis (based on the similarity of the anthropometric characteristics) showed distribution of athletes into three basic groups. Significant difference in weight between the competitors in each class was proved. Athletes performed qualities above average maximum grip strength compared to the general population.

Key words

windsurfing, anthropometric characteristics, body size, hand grip, cluster analysis