**Electronic Supplement**

**Figure S2**

**Direct Measurement of Swimming and Diving Kinematics of Giant Bluefin Tuna (*Thunnus thynnus*)**

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**Fig. S2 Calibration plot for the speed sensor.** Estimated swimming speeds from trigonometry and paddle-wheel rotations determined from the magnetometer (●) were fitted with a fourth order polynomial function (r2=0.61, ) which was applied to the entire data-set of paddle-wheel rotations to predict speeds. Black symbols (●) represent the binned estimated swimming velocity (±SD) according to rotations of the paddle-wheel rotations.