

Supplemental figures

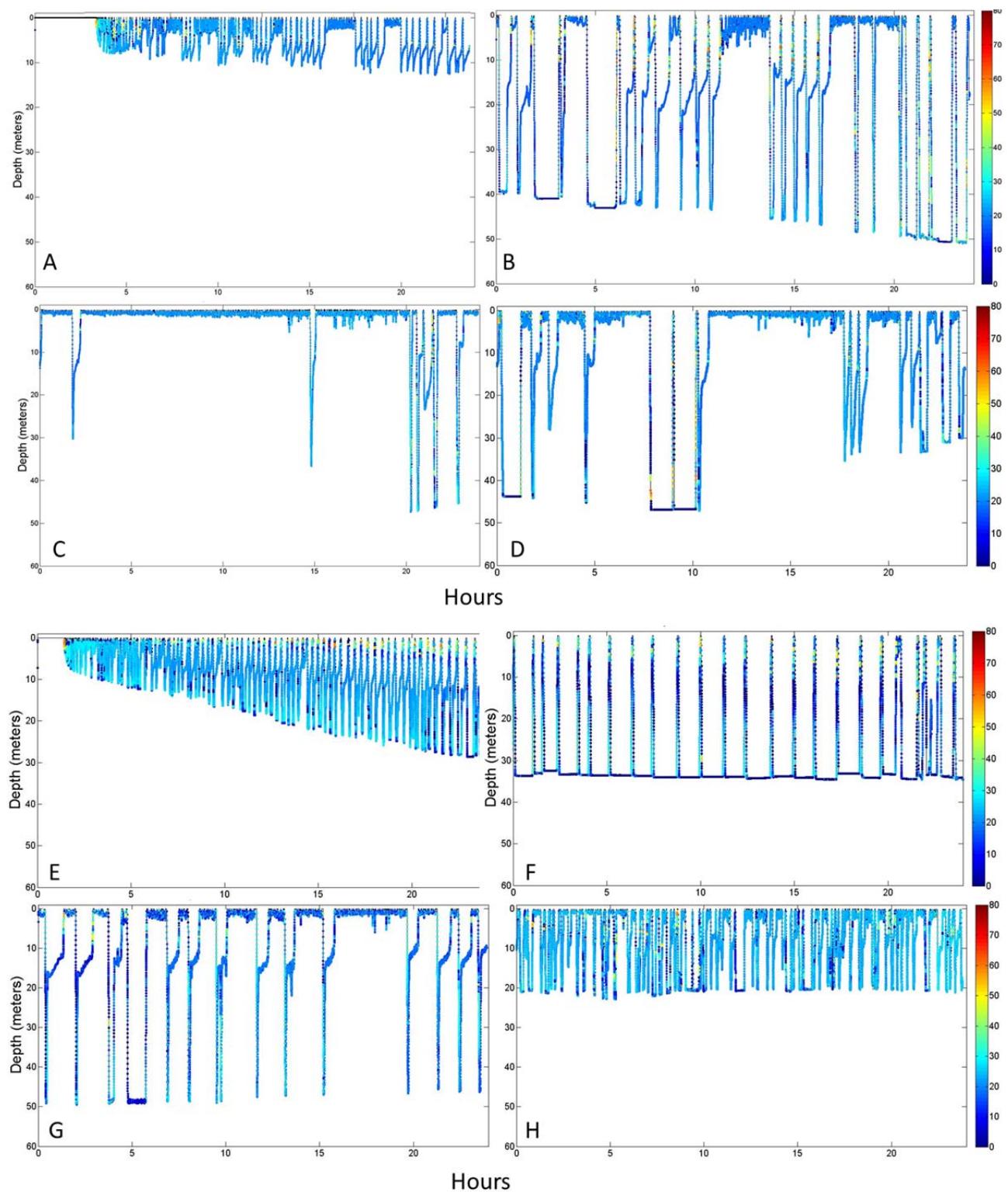


Figure S1. (A-D) Four examples of diving behaviour for turtle #1: A) 5/31 just after the turtle nested, B) 6/4; 4 days after turtle #1 nested, C) 6/6; 6 days after turtle #1 nested and D) 6/10; 8 days before turtle #1 renested. (E-H) Four examples of diving behaviour for turtle #2: E) 6/14; just after the turtles nested, F) 6/16; 2 days after turtle #2 nested, G) 6/24; 10 days after turtle #2 nested and during the tropical storm and H) 6/28; 6 days before turtle #2 renested and after tropical storm had passed the Gulf of Mexico. Color code gives flipper beats/min

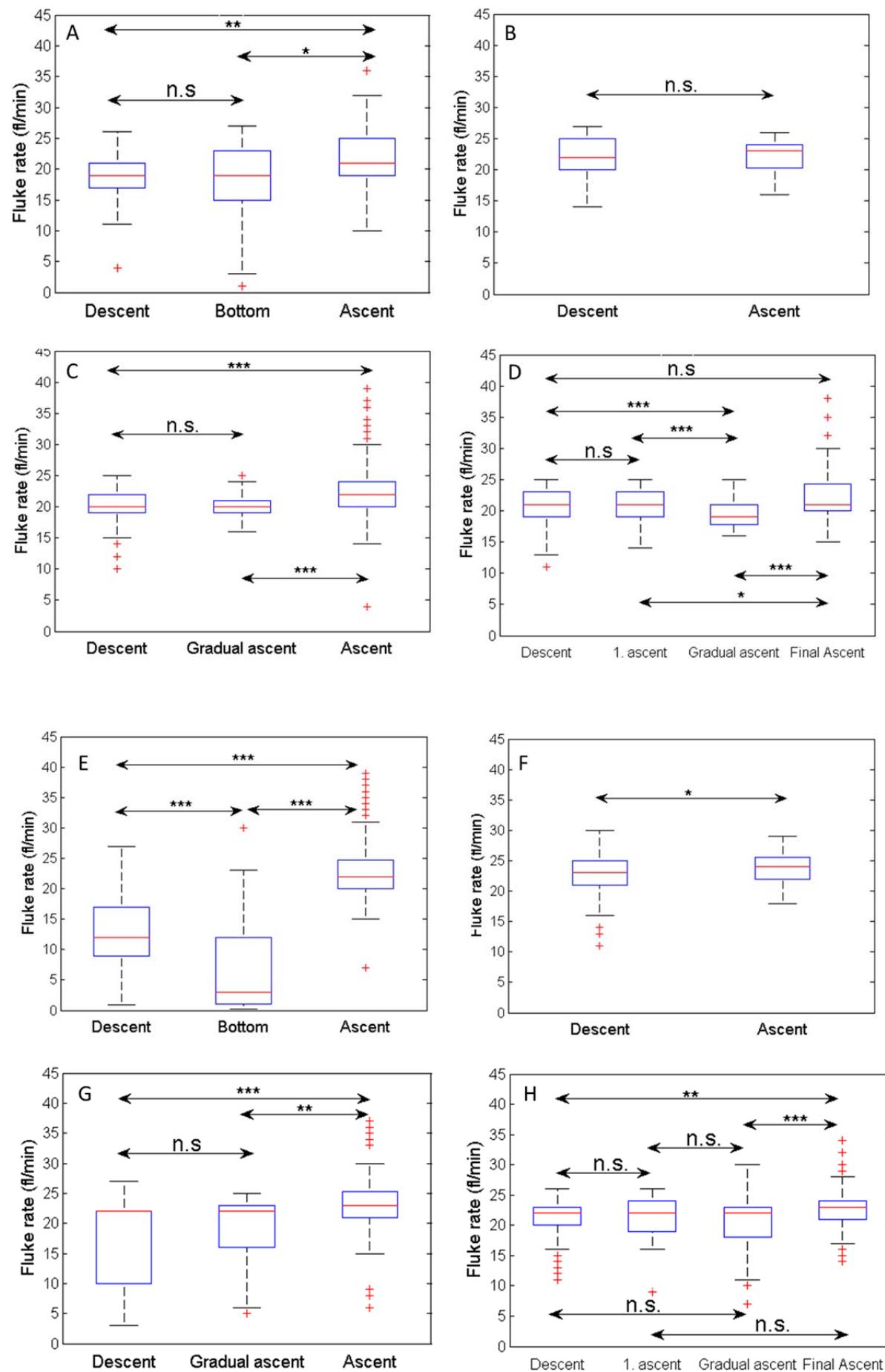


Figure S2: Median flipper beat of the different dive phases. Turtle #1: A) Dive type 1. B) Dive type 2. C) Dive type 3. D) Dive type 4. Turtle #2: E) Dive type 1. F) Dive type 2. G) Dive type 3. H) Dive type 4. Middle line in box represents the median, lower box bounds the first quartile, upper box bounds the third quartile, whiskers are 1.5 times the interquartile range, + are outliers. n.s is no significant difference. *significant where $p<0.05$, ** significant where $p<0.01$, and *** significant where $p<0.001$ based on a Mann-Whitney test.

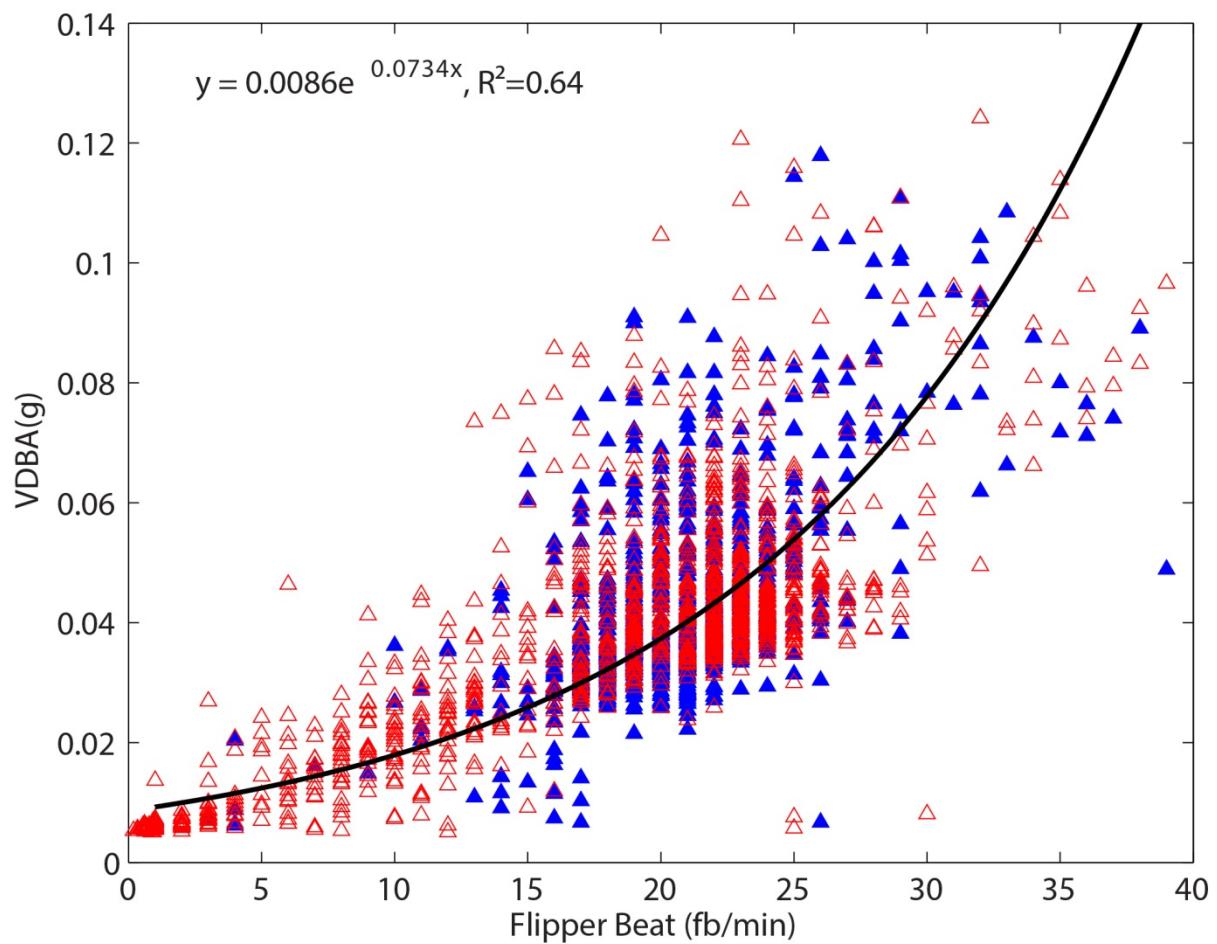


Figure S3: Instantaneous VDBA in (g) plotted against flipper beat/min using all data from the two turtles (Blue: Turtle #1, Red: Turtle #2).