**Body density estimation**

**Japan workshop May 2016**

**Main edits by Eilidh Siegal (July 2017)**

**Section 4: define precise descent and ascent phases**

1. Edited so as to only give dive phases up to (and including) the dive manually clicked on, otherwise dive phases given for whole deployment

**Section 6: Estimate seawater density around the tagged whale**

1. Edited so as to include pressure (i.e. depth) in seawater density estimation
2. Calculated temperature around the whale

**Section 7: Extract strokes and glides**

1. Added lines to ensure correct value of “n” is used

**Section 9: Create summary table**

1. Corrected for acceleration units (i.e. in m/s2 not m/s/#samples/s)
2. Edited to ensure acceleration calculated only if speed values available throughout glide (as in Miller et al. 2016)
3. Corrected units of pitch, roll and heading

**Section 10: Calculate glide ratio**

1. Changed units of pitch (from radians to degrees)

**Section 11: Export csvs**

1. Changed from csvwrite to dlmwrite, as csvwrite reduces precision