Vertical movement behaviour of the starry smooth-hound shark *Mustelus*asterias in the North Sea Master Thesis

Lotte Pohl^{a,b,1,*}, Niels Brevé^{c,d,2}, Carlota Muñiz^{a,3}, Jan Reubens^{a,4}

^aFlemish Marine Institute, Marine Observation Centre, Slipwaykaai 2, Ostend, 8400

^bGhent University, Marine Biology research group, Krijgslaan 281/S8, Ghent, 9000

 $^c \, Wageningen \, \, University \, \, and \, \, Research, \, \, Marine \, \, Ecology \, \, Group, \, \, Droeven daalsesteeg \, \, 1, \, \, Wageningen, \, \, 6700 \,$

 dS portvisserij Nederlands, Leyenseweg 115, Bilthoven, 3721

Abstract

Still to be written.

Keywords: acoustic telemetry, geolocation modelling, mustelus asterias

Table of contents

1	1 Introduction								1
2	2 Materials and Methods						2		
3	Results							2	
	3.1 Data Storage Tags								. 2
	3.1.1 Summary st	atistics							. 2
4	4 Discussion								2

1. Introduction

Here is some normal text, and then we'll use the **custom command** to make this text bold. Also, this is a reference test Dodge et al. (2013). And to combine references, we can use this (Nathan, 2008; Dodge

^{*}Corresponding author

Email addresses: lotte.pohl@imbrsea.eu (Lotte Pohl), breve@sportvisserijnederland.nl (Niels Brevé), carlota.muniz@vliz.be (Carlota Muñiz), jan.reubens@vliz.be (Jan Reubens)

¹Msc Student

²Second Promotor

 $^{^3}$ Supervisor

⁴Promotor

et al., 2013)

•

2. Materials and Methods

3. Results

3.1. Data Storage Tags

The depth log of tag 304 is shown below (see Figure 1).

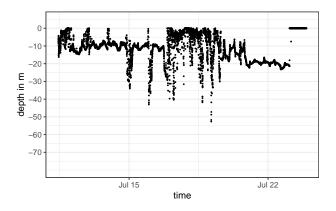


Figure 1: Depth log from the recovered tag 304.

$\it 3.1.1.$ Summary statistics

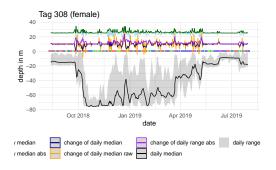
Below the summary statistics for dst tag 308 are displayed (Figure 2). Lat's check if the cross referencing of sections works, see Section 1.

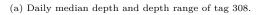
4. Discussion

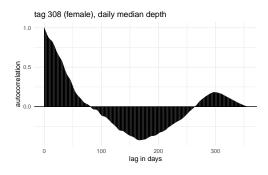
References

Dodge, S., Bohrer, G., Weinzierl, R., Davidson, S.C., Kays, R., Douglas, D., Cruz, S., Han, J., Brandes, D., Wikelski, M., 2013. The environmental-data automated track annotation (env-DATA) system: linking animal tracks with environmental data. Movement Ecology 1, 3. URL: http://dx.doi.org/10.1186/2051-3933-1-3, doi:10.1186/2051-3933-1-3.

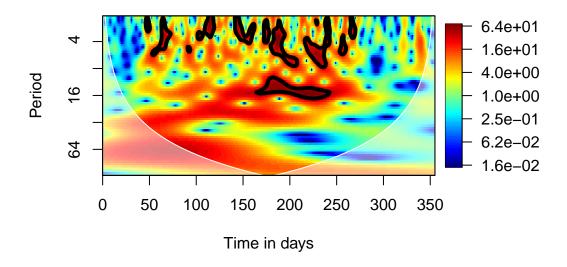
Nathan, R., 2008. An emerging movement ecology paradigm. Proceedings of the National Academy of Sciences of the United States of America 105, 19050–19051. URL: http://dx.doi.org/10.1073/pnas.0808918105, doi:10.1073/pnas.0808918105.







(b) Autocorrelation of the daily median depth.



(c) Wavelet transform result.

Figure 2: Summary statistics for tag 308.