**NWASC Segmentation Instructions**

07/19/2016

This document contains instructions for segmenting data in the Northwest Atlantic Seabird Catalog.

Latest R version: 3.3.1

Required packages and latest versions: **CTS and DTS**;CTS only

broom: 0.4.1

**dplyr: 0.5.0**

**geosphere: 1.5-5**

**lubridate: 1.5.6**

**maptools: 0.8-39**

**rgeos: 0.3-19**

tibble: 1.1

**tidyr: 0.5.1**

zoo: 1.7-13

Required files and locations:

1. CTS
2. Q:/Kyle\_Working\_Folder/Segmentation/From\_Arliss/database\_extract\_cts\_obs.RData

* Contains observation table and transect table in form of R objects ‘obs.dat’ and ‘cts.dat’
* Extracted from NWASC on 06/21/16 with the following script: Q:/Kyle\_Working\_Folder/Segmentation/From\_Arliss/Export\_R\_workspace\_for\_Kyle.R

1. Q:/Kyle\_Working\_Folder/ Segmentation/transect\_shp\_files/line

* Contains effort shapefile with all spatial line geometries
* Extracted from NWASC on 03/07/16 by Yassine Kodad (USGS)

1. R scripts:
   1. Pre-segmentation: Q:/Kyle\_Working\_Folder/ Segmentation/pre\_seg\_new.R
   2. Segmentation: Q:/Kyle\_Working\_Folder/ Segmentation/seg\_new.R
2. DTS
3. Q:/Kyle\_Working\_Folder/Segmentation/From\_Arliss/database\_extract\_dts\_obs.RData

* Contains observation table and transect table in form of R objects ‘obs.dat’ and ‘dts.dat’
* Extracted from NWASC on 06/21/16 with the following script: Q:/Kyle\_Working\_Folder/Segmentation/From\_Arliss/Export\_R\_workspace\_for\_Kyle.R

1. R script: Q:/Kyle\_Working\_Folder/Segmentation/process\_dts.R