**IMPORT.SURVEY.DATA**

**Purpose:** This function (actually a group of functions) is used to import survey data from various locations previous to 2010. It can output these data as flat files (which exist). It also calls in 3 functions internally all of which I will treat as part of the larger Import.survey.data.r file. Can be used to export a large flat file with all of the survey years data together in one “database”. Essentially this is the for loop to get multiple years from **import.hf.data**.

**Version Control:** This is the only version of import.survey.data.r I am aware of

Required packages: chron, splancs

**Locally Derived Functions**

1. **convert.dd.dddd.r**
2. **Import.hf.data**
3. **parse.dis**
4. **parse.dtp**
5. **parse.shf**

**Section 1**

This contains the main function **import.survey.data**, this function needs all the other 4 functions to work, although **parse.dis** and **parse.shf** are called only within **import.hf.data**. The data are imported via **import.hf.data**. They are then assigned to either be exploratory or assessment tows. The import.survey.data function is really not much more than a for loop to repeatedly call **import.hf.data** and stitch the dataframe into one coherent object.

***Argument(s)***

* **years**: select any combination 1981-2010 (Aug), and 1984-2010 (May). There is a spring survey from 1983 and summer surveys from 1978-1980 but they have not historically been used, reason unknown. Default is 1981-2009
* **survey:** Choices here are limited to 'May' for the spring survey and 'Aug' for the summer survey. Default is ‘Aug’.
* **type**: Options are ‘surv’, ‘grid’, default is ‘surv’.
* **explore**: Use both the exploratory and assessment tows (T/F) default is True which means use all the data, False selects only the assessment tows.
* **export**: Export the data as a csv? (T/F) default is True
* **dirc**: Directory to look for the data in. Default = "Y:/Offshore scallop/Assessment/”

**Function Index**

do.call

if

is.na

for

function

length

list

print

require

source

stop

subset

write.table

**Import.hf.data**

**Purpose:** This “sub-function” is the work horse of the **import.survey.data.r**, it calls in the data and processes it. Functions **parse.dis**, and **parse.shf** called within this function.

**Version Control:** This is the only version of **import.hf.data** I am aware of

Required packages: chron, splancs

**Locally Derived Functions**

1. **parse.dis**
2. **parse.shf**

**Section 2**

The workhorse function in this file, it obtains and processes the data, with some help from **parse.dtp**, **parse.dis** and **parse.shf**. There is lots happening in this function but for the most part it is really just making sure all the data is combined properly. A nice tidy database would remove our need for all these functions.

***Argument(s)***

* **survey**: Choices here are limited to 'May' for the spring survey and 'Aug' for the summer survey. Default is ‘Aug’.
* **year:** Can only run 1 year at a time with this function, import.survey.data is essentially the for loop needed for this function to run mutilple years.
* **bank**: Which offshore bank to pick, if left blank it selects them all. Options are "Ban","BB","BBn","BBs","GB","Ger","Mid","Sab","BanIce"
* **type**: What type of data is it 'surv' or ‘grid’

**Function Index**

!is.na

as.character

as.numeric

c

cbind

data.frame

do.call

else

if

inout (new to me, from splancs to determine whether points are within a polygon or not)

floor

for

function

length

list

merge

missing

paste

path

read.csv

read.table

rep

require

stop

sweep

with

**parse.dis**

**parse.dtp**

**parse.shf**

**Purpose:** Each of these does the stick handling needed to get the “dis”, “dtp” and “shf” files into dataframes which can be combined to give us our survey summary. I won’t give more details as functions are essentially used to combine disperate sources of data. The date containing in these files is shell height frequency (parse.shf), distance coefficients (parse.dis), and tow bearing information (parse.dtp).

**Version Control:** These are the only versions of **parse.dis** **parse.dsh** **parse.dtp** I am aware of

Required packages: chron, splancs

**Section3**

Does the fancy stick handling for dis, dtp, and hf files from **import.hf.data**.

***Argument(s)***

* **dis/dtp/shf**: the path + filename to be read in the function
* **survey**: Choices here are limited to 'May' for the spring survey and 'Aug' for the summer survey. Default depends on the function called.
* **yr:** Can only run 1 year at a time with this function, import.survey.data is essentially the for loop needed for this function to run mutilple years.

**Function Index**

as.character

data.frame

else

if

is.na

function

matrix

nrow

read.csv

substr