**OSAC\_summary.r**

**Purpose**  This function is the workhorse function for the OSAC presentation, the figures specific to OSAC presentation and all the data needed for OSAC are outputs from running this function. This function can produce figures, csv files, RData files, and a list of the results.

**Version Control**  This is the original version of OSAC\_summary.r as it incorporates several other scripts.

Required packages: As needed by locally derived functions below

**Locally Derived Functions**

1. **OSAC\_fishery\_figures.r**
2. **logs\_and\_fishery\_data.r**
3. **fishery.dat.r**
4. **ScallopMap.r**

**Section 1**

Several custom functions and a couple of local data files and final survey results are required to get this function up and running. The fishery logs are also pulled in at this stage using logs\_and\_fishery\_data.r function. The OSAC\_fishery\_figures.r function is then used to make the OSAC figures and pull in the spatial and time series data. Various measures of catch and CPUE for the banks are then calculated along with summary stats of the catches, effort, cpue, WF vs. FT fishery results etc. These results can be exported to a csv in the Fishery\_data folder. The fishery and survey data are pulled together and can be saved as an RData object. Finally the mini-figures used to display the bank in the presentation (top corner of presentation) are also made in this figure.

***Argument(s)***

1. yr The year of survey data you want to pull. Default = last year (current year -1)
2. direct The directory where everything resides. Default = "Y /Offshore scallop/Assessment"
3. mx.dt The date of the logs you are pulling (sometimes the most recent aren't up to date),

defaults to current date make sure this is set as a "date" object so stick an "as.Date" in front of the data you specify. If some of the logs have not be through QA/QC then specify the most recent log data you will use.

1. bnk Pick the bank(s) you want, defaults to all banks. Options are any of

c("Ban","Mid","Sab","Ger","BBs","BBn","GBa","GBb")

1. poly.brd The border for the squares used in the fishery spatial figures. Default = "black"
2. save.fig Do you want to save the figures or just plot them to the screen. (T/F) Default =F (plot to

screen)

1. add.titles Do you want titles added to the figures. Default = T
2. low For the banks with lower catch rates (Sab,Mid,Ban,Ger,BBs) what is a good catch in a

cell. Default = 1.5 tonnes

1. low.banks These are the banks associated with "low.catch". Default = c(Sab,Mid,Ban,Ger,BBs)
2. high For the banks with higher catch rates (GBa,GBb,BBn) what is a good catch in a cell.

Default = 10 tonnes

1. high.banks These are the banks associated with "high.catch". Default = c("BBn","GBa","GBb")

Both low and high catch are pretty relative depending on the bank of interest so want to think about that when setting these

1. extreme Pull out extremely high catches (this should be larger than "high"). Default = 50 tonnes
2. save.res Save the results as an r data object. (T/F) Default = F
3. export Export the results to a csv file. (T/F) Default = F.
4. make.mini.figs Do you want to make the figures shown in the top left corner of the OSAC

powerpoints? (T/F) Default = F

1. db.con The database to connect to. Default ="ptran"
2. un Your username to connect to SQL database. Default = un.ID
3. pw Your password to connect to SQL database. Default = pwd.ID