**Purpose:** A function used to map the strata for both the inshore and offshore areas, can be used as a standalone function or as a call to another function (e.g. ScallopMap.r). The strata are obtained directly from the SQL database for this function so a valid connection, username, and password are all needed.

**Version Control:** The first version of this was produced by DK August 11, 2015

**Function Arguments Summary**

1. **loc:** Strata from which locations are to be plotted. Three options, “inshore”, “offshore”, “all”, defaults to all.
2. **plot.add:** True (default) is used if function is being called by another function with a plot device already opened, False used if making a unique plot with just land and survey strata shown, to work as a stand-alone function set this to F.
3. **un:** Username for your SQL call, please set this up in your R-profile and do not enter it directly into the function
4. **pwd:** Password for your SQL call, please set this up in your R-profile and do not enter it directly into the function
5. **db.con:** SQL database connection name, user specific, default is ptran
6. **strata.color:**  Currently uses pastel.colors(n=64,seed=2) from RPMG library to generate the color table for the strata
7. **direct:** The working directory. default = "Y:/Offshore scallop/Assessment/Assessment\_fns/"

**Section 1**

In this section the strata are pulled into R from the SQL database.

***Note(s)***

* **loc**: Options are “inshore”, “offshore”*, and “all”. Inshore and offshore correspond to boundaries for same area as ScallopMap.r areas, while “all” corresponds to the “NL” area*

**Section 2**

Here is where the various boundary layers and labels are brought into the function and added depending on function argument settings. Some extra code is needed for rotating and otherwise making the labels look good in the plots. Note that while the area boundaries are all plotted here, none of the labels are plotted at this stage unless making a standalone plot (plot.add=F). The label objects are taken from this function and place into the function from which this was called (e.g. ScallopMap.r) in Section 3.

**Section 3**

Here we add the final labels and plot elements to make the plot look pretty if making a standalone plot. The Label objects obtained in Section 2 are sent back to the parent function if necessary.

**Function Index**

addLabels

addPolys

assign

attr

box

c

colNames

for

function

If

merge

odbcClose

odbcConnect

paste

plotMap

rbind

read.table

require

sort

sqlQuery

stop

title

unique