**Purpose:** A function used to map the Management Boundary areas, can be used as a standalone function or as a call to another function (e.g. ScallopMap.r).

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

**Function Arguments Summary**

1. **bounds**: Are we looking at 'offshore', 'inshore', or 'all' boundaries
2. **plot.add**: Add the boundaries to a plot already active. (T/F) defaults to True, False will make a stand alone plot
3. **area.labels**: Add labels (T/F), defaults to False
4. **offshore.names**: Add the common names of the offshore areas to the plot (T/F), defaults to F
5. **add.EEZ**: Draw the the EEZ boundaries drawn (T/F), defaults to F
6. **add.color**: Add color to the shelf polygons (T/F), defaults to F
7. **manage.colors**: Choose colors for the polygons, defaults to pastel.colors(n=64, seed=2) from RPMG package
8. **direct**: The working directory. default = "Y:/Offshore scallop/Assessment/Assessment\_fns/"

**Section 1**

If using this as a standalone plot (plot.add=F) this section is relevant. This section defines the boundaries for the plot and plots an empty figure with correct boundaries. A title is also added depending on what these boundaries are.

***Note(s)***

* **bounds**: 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 placed 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.

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