**Regional and taxGroup Summary Plot Guide**

Four types of plots are produced for each group of stocks, where a group is either a region or taxGroup. Separate files are produced for each group.

**Biomass Coverage Plots**: Horizontal bar charts which describe the year ranges of data covered in the most recent assessment for each stock (starting in 1950). Each bar represents an individual stock, sorted vertically from largest to smallest by average biomass over the time series. There are two versions of this plot described below.

1. All Stocks Version: Scales with biomass on log scale and has all stocks displayed in one plot. Stocks are not individually labelled but are color-coded either by taxGroup (for plots with default regional grouping) or by region (for plots with default taxGroup grouping).
2. By Stock Version: Stocks are shown in rank order, but not to scale with biomass. Individual stocks are labeled, and average biomass is listed in the margin. Plot may span multiple pages depending on the number of stocks in the grouping. Stocks are color-coded either by taxGroup (for plots with default regional grouping) or by region (for plots with default taxGroup grouping).

**Surplus Production:** Vertical bar chart that plots annual surplus production (net increase of biomass plus catch) over time (starting in 1950) for the four stocks with the highest average biomass in the region or taxGroup.

**Surplus Production v Biomass:** Line and point plot that shows the path of annual surplus production compared to annual biomass over time (starting in 1950) for the four stocks that contribute the most to absolute surplus production in the region or taxGroup. Years are represented by a continuous color scale with the first (blue) and last (red) years labeled on the plot.