**Change Log for FishGraph Functions**

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| **Date** | **Routine**  **changed** | **By** | **Ver** | **Changes** |
| 10 Oct  2007 | landings.plots | MHP | 1.0 | Revised so that observed data plot with circles, predicted with lines only (per FishGraph defaults). |
| 26 Nov  2007 | F.time.plots | MHP | 1.01 | Fixed errors when draft = FALSE. |
| 26 Nov  2007 | BSR.time.plots | MHP | 1.02 | Fixed error in which titles were drawn even with draft = FALSE. |
| 1 Oct  2008 | CLD.total.plots | MHP | 1.03 | Bug fixed in axis labeling (units) |
| 26 Aug  2009 | Index.plots | MHP | 1.04 | Bug fixed trying to make pairs plot when only one index |
| 26 Aug  2009 | F.time.plots | MHP | 1.04 | Bug fixed trying to make stacked barplot when only one index |
| 26 Aug  2009 | Selectivity.plots | MHP | 1.04 | Added plot.points option |
| 26 Aug  2009 | Comp.yearly.plots | MHP | 1.04 | Revise manual to explain data elements for N and N(eff). When N(eff) is printed or plotted, default is now to use values stored with data. Internal computation still possible through an option. |
| 9 Sep  2009 | fgsupport | MHP | 1.05 | Improve error message when row names are generated. |
| 9 Sep  2009 | PerRec.plots | MHP | 1.05 | Fix bug so that units of measure are printed correctly. |
| 9 Sep  2009 | CLD.total.plots | MHP | 1.05 | Fix so function works (though useless) with only one fishery. |
| 9 Sep  2009 | Selectivity.plots | MHP | 1.05 | Add error message when (e.g.) sel.age is found but no matrices or vectors under it to plot. |
| 28 Oct 2015 | Comp.plots | KWS, RTC | 2.0 | Option for Pearson residuals, in place of angular deviations. Creates plots of pooled compositions |
| 28 Oct 2015 | Growth.plots | KWS | 2.0 | Fixed the *plot.all* feature (plots every column in x$a.series) |
| 28 Oct 2015 | PerRec.plots | KWS | 2.0 | Added option for F.references |
| 28 Oct 2015 | EqRec.plots | KWS | 2.0 | Renamed Eq.plots  Searches for components SSB.eq, B.eq, etc. (i.e., requires \*.eq extension)  Added option for F.references  Added plots of B.eq v L.eq and B.eq v D.eq |
| 28 Oct 2015 | StockRec.plots | KWS | 2.0 | Removed S v logR plot  Added S v log(R/S) plot  Modified legend when bias-correction is used  Option for time trajectory overlay (added by default) |
| 28 Oct 2015 | CLD.total.plots | KWS | 2.0 | Option for horizontal reference lines |
| 28 Oct 2015 | NFZ.age.plots | RTC | 2.0 | Added bubble plots of N at age and B at age, both with overlay of average values through time  Same for landings and discards if plot.CLD=TRUE |
| 28 Oct 2015 | BSR.time.plots | KWS | 2.0 | Option for horizontal reference lines. Previously, MSY references were hardcoded. Now, they are the default, but can be replaced with user-defined references (e.g., SPR quantities), or removed altogether.  MSST not required, reference added to SSB plot only if found |
| 28 Oct 2015 | Index.plots | KWS, EHW | 2.0 | Removed the bar plot and paired scatter plots of residuals  Option for error bars (±2 SEs) on observed values  Option for residual diagnostics  Option for curve from different time blocks to be on the same plot |
| 28 Oct 2015 | F.time.plots | KWS | 2.0 | Option for user-defined F metrics (e.g., apical F)  An extension of \*.ratio alerts FishGraph that the metric is a relative measure (e.g., F.apical/F40). |
| 28 Oct 2015 | Cohort.plots (new) | KWS, EHW | 2.0 | Plots saved in compyr folder |
| 28 Oct 2015 | Parm.plots (new) | KWS, EHW | 2.0 | Plots saved to parms folder |
| 28 Oct 2015 | Bound.vec.plots (new) | KWS, EHW | 2.0 | Plots saved in boundvecs folder  Searches for parm.tvec and parm.avec components |
| 28 Oct 2015 | Phase.plots (new) | KWS | 2.0 | Plots saved in phase folder  Creates phase plots of stock and fishery status, with user-defined time series and user-defined threshold references  SSB and F.full are default time series  Fmsy and MSST are default references |
| 28-Oct-2015 | Comp.yearly.plots | KWS | 2.0 | Removed “Neff/N” from panel annotation  Removed “print.angle” option  Set default: compact = True |