Plots menu

PRIMER 7 has a new **Plots** main menu, available when the active window is a data matrix. This brings together a number of standard plot formats, and more specialised ones, relevant to a range of multivariate analyses. Some are similar or identical to those in PRIMER 6, e.g.

Plots>Dominance Plot, **Geometric Class Plot** and **Species-Accum Plot** (Section 16), and **Draftsman Plot** (already seen in Section 4 and again in Section 13). Others are new to PRIMER 7: the **Histogram Plot** was seen earlier (Section 4), as were **Scatter Plot** (Section 5) and **Surface Plot** (end of Section 4 and in Section 5). A significant new feature in PRIMER 7, the specialised **Shade Plot**, was introduced in Section 4 as a means to aid pre-treatment choice and is discussed in more detail in Section 10, in the context of interpreting species patterns across samples. There is a similar context for **Line Plot**, in the form of a multi-plot created by **Wizards>Coherence plots**, seen in Section 10, and the other three plot types in this menu are also standard graphic constructions: a **Bar Plot** can show relative composition of different species in each of a set of (averaged) samples, and **Box Plot** and **Means Plot** (Section 15) provide standard univariate tools pre- and post-hypothesis testing for a one-way layout, e.g. the latter giving confidence intervals for *effect sizes* (generalised to multivariate data by the *bootstrap region plots* of Section 17, under **Analyse>Bootstrap Averages** on resemblances).

The **Plots** menu items are mainly exemplified in the analysis sections in which they are most likely to be useful, but three of the standard graphic displays are given below for the Bristol Channel data.
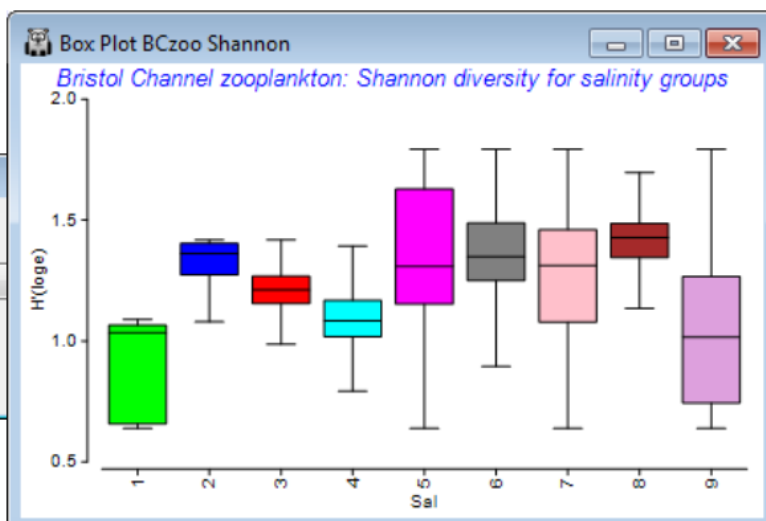
Bristol Ch...
Other

Plots

- Bar Plot...
- Box Plot...
- Dominance Plot...
- Draftsman Plot...
- Geometric Class P
- Histogram Plot...
- Line Plot...
- Means Plot...
- Scatter Plot...
- Shade Plot...
- Species-Accum Plot...
- ...t...

Variables	
	H'(loge)
1	0.63804
2	0.66402
3	1.0887
4	1.0574
5	1.0333
6	1.3619
7	1.2446
8	1.4177
	0.99914

Samples

Plots

- Bar Plot...
- Box Plot...
- Dominance Plot...
- Draftsman Plot...
- Geometric Class Plot.
- Histogram Plot...
- Line Plot...
- Means Plot...
- Scatter Plot...
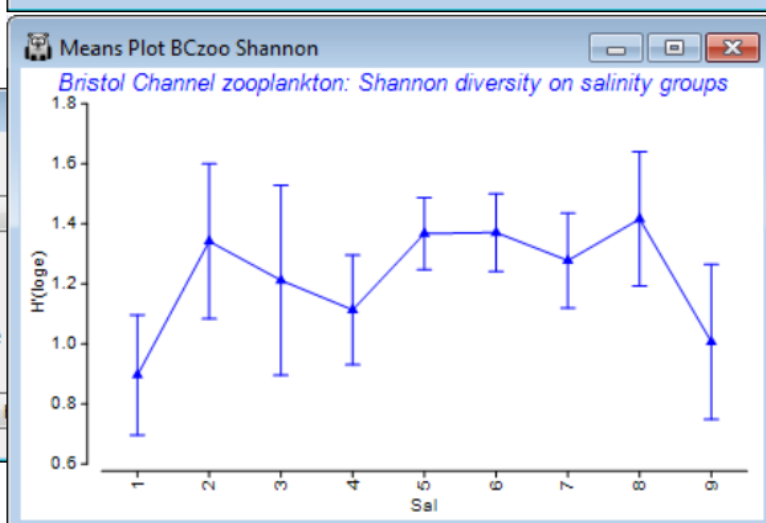- Shade Plot...
- Species-Accum Plot...
- Surface Plot...

Box Plot

Group factor:

Sal

OK

Means Plot

Group factor:

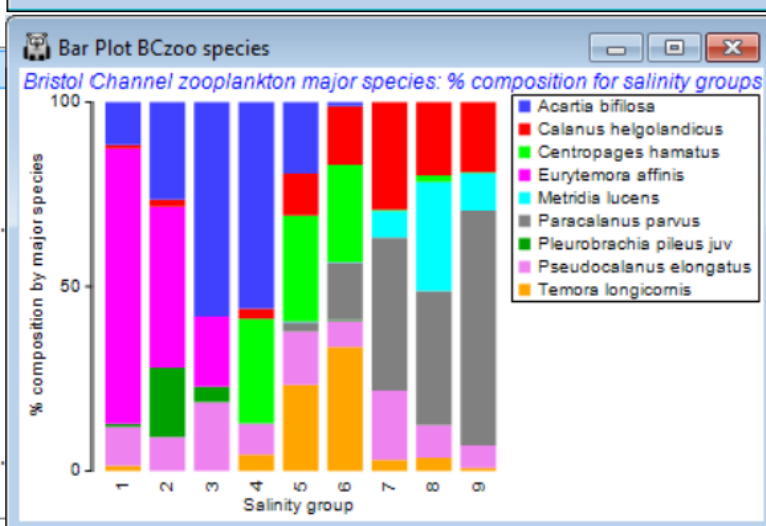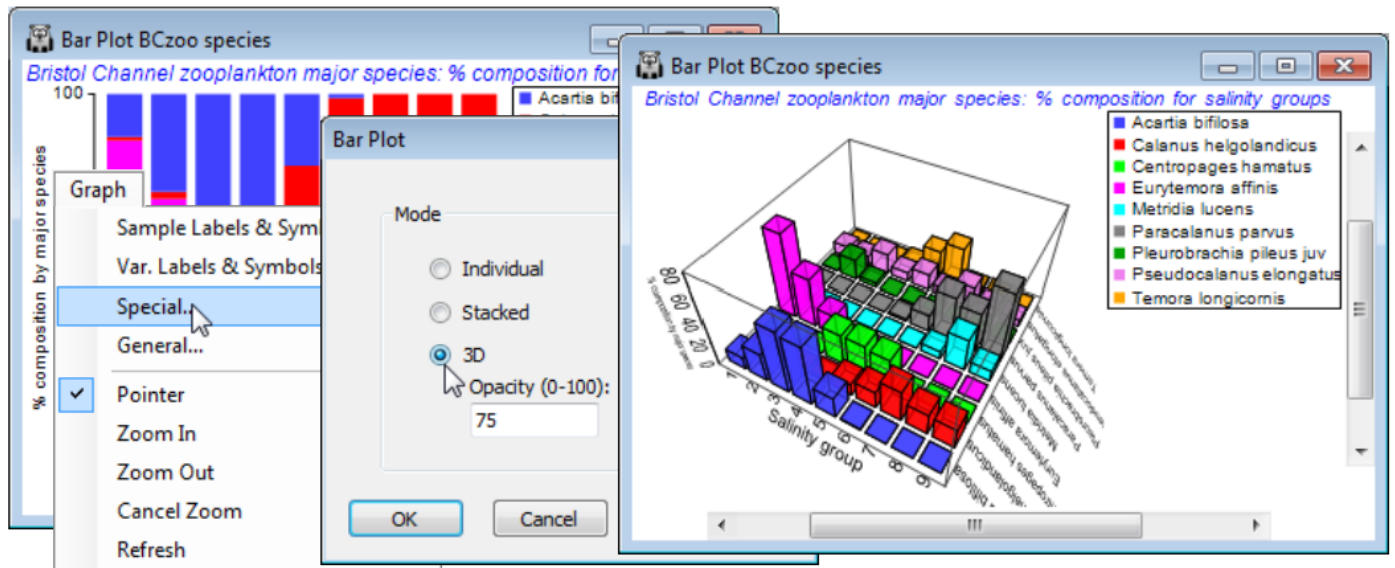Sal

☑ Join means

☑ Common variance estimate

OK   Cancel

Box Plot BCzoo Shannon

Bristol Channel zooplankton: Shannon diversity for salinity groups

Means Plot BCzoo Shannon

Bristol Channel zooplankton: Shannon diversity on salinity groups

Data3

Bristol Channel zooplar...
Abundance

Variables - Species	Samples		
	1	2	3
Acartia bifilosa	11.6	26.3	58
Calanus helgoland	0.86	2.00	
Centropages ham	0	0	
Eurytemora affinis	74.7	43.6	19
Metridia lucens	0	0	
Paracalanus parvu	0	0	
Pleurobrachia pile	0.86	18.7	4.
Pseudocalanus elc	10.5	9.17	18
Temora longicorni	1.34	0	

Plots

- Bar Plot...
- Box Plot...
- Dominance Plot...
- Draftsman Plot...
- Geometric Class Plot...
- Histogram Plot...
- Line Plot...
- Means Plot...
- Scatter Plot...
- Shade Plot...
- Species-Accum Plot...
- Surface Plot...

Bar Plot BCzoo species

Bristol Channel zooplankton major species: % composition for salinity groups

Legend:
- Acartia bifilosa
- Calanus helgolandicus
- Centropages hamatus
- Eurytemora affinis
- Metridia lucens
- Paracalanus parvus
- Pleurobrachia pileus juv
- Pseudocalanus elongatus
- Temora longicornis

Save and close the Bristol Channel workspace, Bristol Channel ws.

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