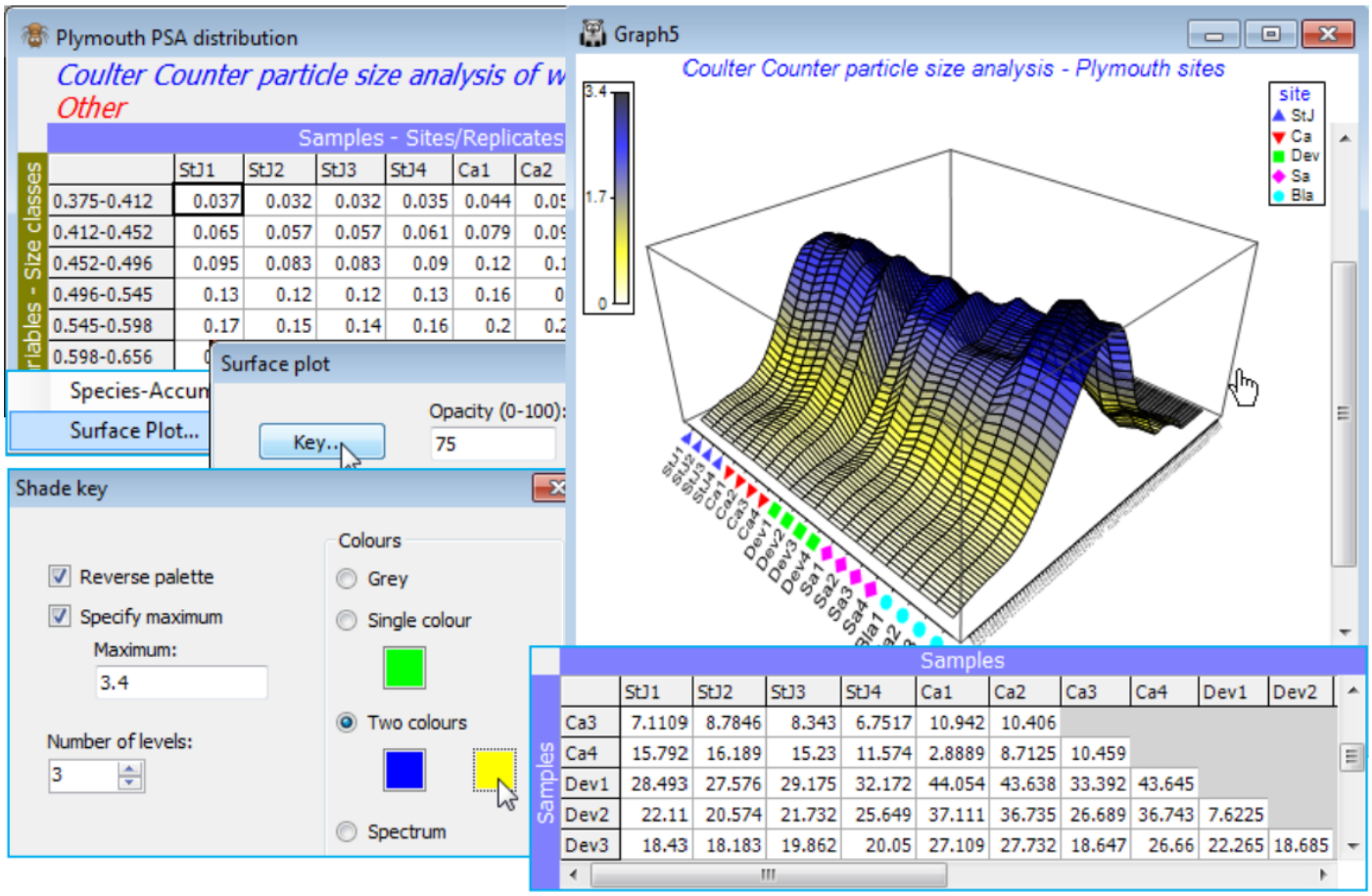
(Plymouth particle-size analysis)

An example of a particle-size analysis (PSA) matrix has already been seen for Danish sediments at the end of Section 4, for which the histogram was smoothed by cumulating the size-classes. Here we examine instead an already smooth frequency distribution from Coulter Counter processing of water samples, in which large numbers of suspended particulates are automatically sized into one of 92 logarithmically increasing particle-diameter ranges (the variables). The samples are of four replicate water samples from each of five Plymouth sites, and some analysis is presented towards the end of Chapter 8 of CiMC. The directory C:\Examples v7\Plymouth PSA holds the frequency distributions in Plymouth PSA distribution. Columns are samples, and entries are % particles in each size-class (add to 100). The curves are conveniently viewed with **Plots>Surface Plot**, colour changed with **Graph>Special>Key**, zoomed with **Graph>Zoom In** or the  icon, and rotated with **Graph>Rotate Axes** or the  icon (hold-click and move cursor). Create Manhattan distances among the curves, with **Analyse> Resemblance**>(Measure•Other: D7 Manhattan distance), which could go into ANOSIM to test for characteristic site differences in PSA profiles at these times.



	StJ1	StJ2	StJ3	StJ4	Ca1	Ca2	Ca3	Ca4	Dev1	Dev2
Ca3	7.1109	8.7846	8.343	6.7517	10.942	10.406				
Ca4	15.792	16.189	15.23	11.574	2.8889	8.7125	10.459			
Dev1	28.493	27.576	29.175	32.172	44.054	43.638	33.392	43.645		
Dev2	22.11	20.574	21.732	25.649	37.111	36.735	26.689	36.743	7.6225	
Dev3	18.43	18.183	19.862	20.05	27.109	27.732	18.647	26.66	22.265	18.685

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