Appendix D

Supporting Data

2011 PLOO Stations

Macrobenthic Communities

Appendix D.1

PLOO one-way ANOSIM results for benthic infauna.

Global Test

Tests for differences between sediment types

Sample statistic (Global R):	0.47
Significance level of sample statistic:	1.2%
Number of permutations:	9999
Number of permuted statistics greater than or equal to Global R:	116

Pairwise tests

Tests for pairwise differences between individual sediment types: r values (p values)

	Fines with sand	Sand with coarse and fines	Sand with coarse
Sand with fines	0.854 (0.002)	0.256 (0.268)	-0.09 (0.585)
Fines with sand		0 (0.667)	1 (0.333)
Sand with coarse and fines			no test

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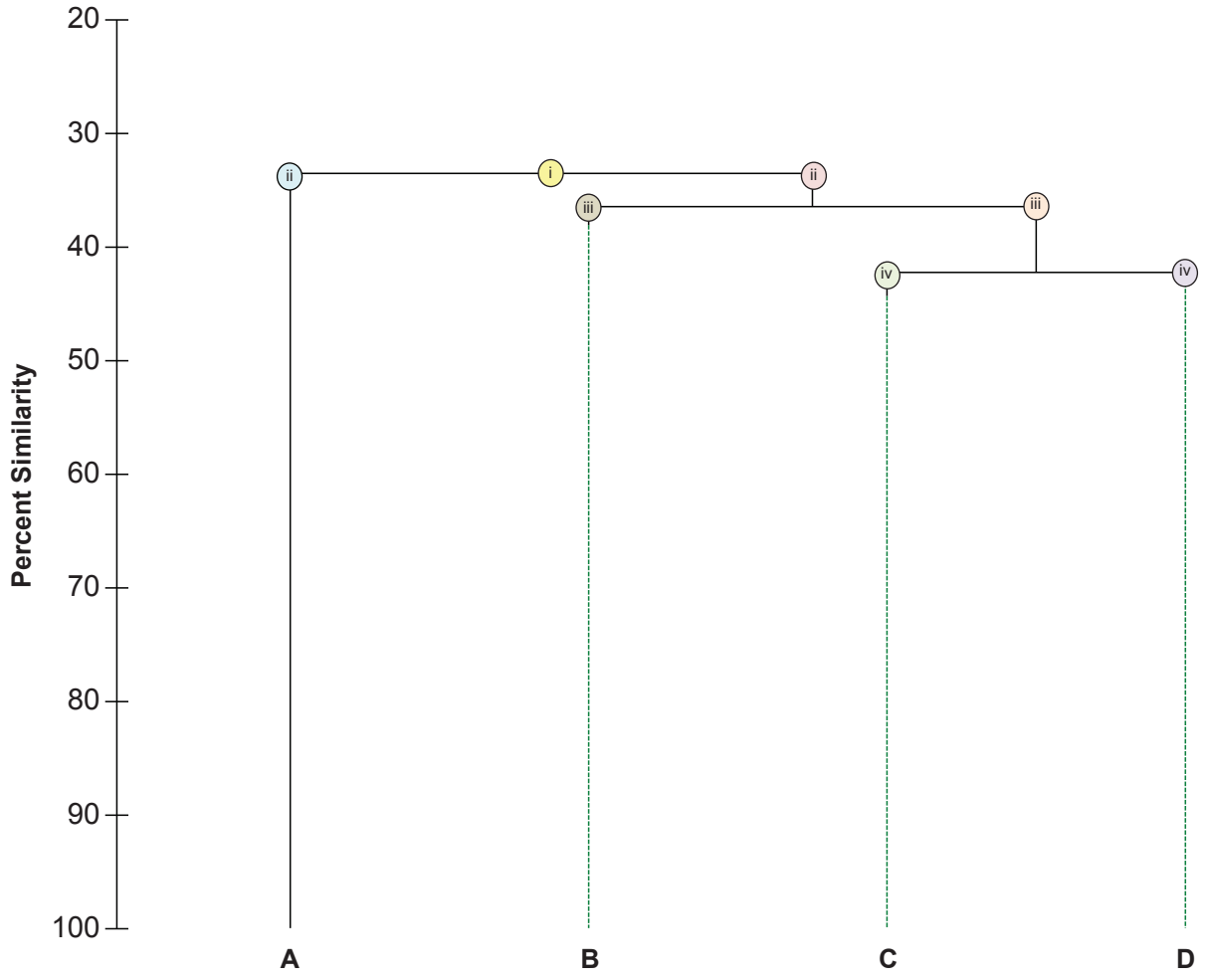
Appendix D.2

Delineation of cluster groups (see Figure 5.4) by species exclusivity (i.e., species that occur solely in each supported clade versus species that occur in multiple non-related clades). Roman numerals and colored circles in dendrogram (below) correspond to numbers and colors delineating each SIMPROF-supported split featured in the appendix (following pages). Mid = mid-shelf (30−120 m). Sc = sand with coarse, Sf = sand with fines, Fs = fines with sand, Scf = sand with coarse and fines.

	n				Depth				Fines			
CG	**invert**	**sed.**	**nearfield**	**Stratum**	**mean**	**min**	**max**	**Sed.**	**mean**	**min**	**max**	**Depth/sed. exceptions**
A	1	1	0	mid	88	88	88	Sf	46.4	46.4	46.4	
B	7	3	0	mid	88	88	88	varied	52.2	41.2	59.5	Fs = 2, Sf = 1
C	14	7	0	mid	110.9	98	116	Sf	34.0	28.0	39.8	
D	66	33	16	mid	98.9	87	118	varied	36.6	3.7	47.2	Sf = 31, Sc = 1, Scf = 1



Appendix D.2 *continued*

(i.) Species occurring in all cluster groups

Cluster groups	**A**	**B**	**C**	**D**
Aphelochaeta tigrina	1	0.14	1.29	0.5
Kurtzina beta	1	0.43	0.43	0.29
Nemocardium centifilosum	1	0.14	0.43	0.44
Rhachotropis sp A	1	0.14	0.07	0.09

(ii.) Species delineating the separation of cluster group A from cluster groups D through K (33.52% similarity)

	A	**B**	**C**	**D**
Calocarides spinulicauda	1	0	0	0
Eusyllis blomstrandi	1	0	0	0
Hiatella arctica	1	0	0	0
Listriella melanica	1	0	0	0
Maera jerrica	2	0	0	0
Malmgreniella macginitiei	1	0	0	0
Philine auriformis	0	0.29	0.29	0.26
additional 28 taxa (≤0.29)	0	x	x	x

(iii.) Species delineating the separation of cluster group B from cluster groups C and D (36.45% similarity)

	A	**B**	**C**	**D**
Chaetoderma pacificum	0	0.29	0	0
Megalomma sp	0	0.29	0	0
Aricidea (*Acmira*) sp	0	0.14	0	0
Brissopsis pacifica	0	0.14	0	0
Phyllochaetopterus limicolus	0	0.14	0	0
Typosyllis heterochaeta	0	0	0.36	0.18
Aphelochaeta williamsae	0	0	0.36	0.05
additional 41 taxa (≤0.29)	0	0	x	x

(iv.) Species delineating the separation of cluster group C from cluster group D (42.25% similarity)

	A	**B**	**C**	**D**
Chaetozone sp SD3	0	0	1.07	0
Mooreonuphis exigua	0	0	0.5	0
additional 36 taxa (≤0.21)	0	0	x	0
Rhepoxynius menziesi	0	0	0	1.91
Lumbrineris latreilli	0	0	0	0.5
Solemya pervernicosa	0	0	0	0.5
Terebellides sp	0	0	0	0.45
Euclymeninae sp A	0	0	0	0.24
additional 158 taxa (≤0.18)	0	0	0	x