

Benthic Mapping for Habitat Classification in the Peconic Estuary:
Phase III Ground Truth Studies

Final Report to
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ABSTRACT

Benthic habitat maps of the estuary seafloor can increase our knowledge of the range and variability in benthic habitats, assist managers in their efforts to protect and/or restore commercially and recreationally important finfish and shellfish, link land usage (e.g. developed vs. undeveloped areas) and water quality data to benthic habitat quality, and make it possible to utilize faunal data as a long-term indicator of the overall “health” of the estuary. We have been combining high-resolution remote sensing techniques with detailed study of the physical and faunal characteristics at point locations in different seafloor environments (Cerrato and Maher 2007, Cerrato *et al.* 2009). In Phase III, four regions (Great Peconic East, Little Peconic Bay, Noyak Bay, and Shelter Island West) were acoustically mapped and sampled. Sonar mapping used multibeam swath bathymetry to generate backscatter images that allowed classification of the sea bed into provinces. Samples for sediment and macrofauna were collected within each province to provide "ground truth" for the acoustic maps. Each region was sampled at 15-34 locations with no replication. Results suggest that the acoustic provinces identified represent areas of similar faunal and sedimentary characteristics. Provinces identified in the Phase III surveys were rectified with Phase I and II provinces in places where sonar data for the surveys overlapped. In addition, analysis of species richness of the combined Phase I-III data sets indicated that no west to east spatial gradient in species richness exists in the Peconics.

INTRODUCTION

Acoustic surveys of marine areas have become the underwater analog of aerial photography, enabling relatively large areas to be surveyed at fine resolution in relatively short periods of time. Maps generated by acoustic surveys alone are not sufficient for characterizing bottom type or the distribution of benthic communities, and at least one stage of ground truthing, i.e., linking the acoustic maps with benthic sediment characteristics and biological assemblages, is required. Acoustic surveys can identify sites of different bottom character, but determining that those sites are, for example, sea-grass beds, rocky substrates, rippled sands, or fine-grained muds, requires verification by direct sampling. Knowing the type of bottom present is an important indicator of the benthic community that may be present, but benthic communities are highly variable and cannot be accurately predicted based on bottom type alone since features detected by acoustic surveys, and that appear to characterize distinct sedimentary regions, are not necessarily biologically relevant (Brown *et al.*, 2002).

The principal goal of this study was to collect and analyze sediment and faunal ground truth samples at four regions in the Peconic Estuary System (Figure 1). These areas included the eastern part of Great Peconic Bay (referred to as Great Peconic East in this report), Little Peconic Bay, Noyak Bay, and a region west of Shelter Island (referred to as Shelter Island West in this report). Ground truth sampling locations were determined by visual examination of high resolution backscatter maps created by multibeam sonar surveys. Funding for this project was provided by the Suffolk County Department of Health Services Office of Ecology.

METHODS

Sampling Locations

Stratification of the regions into initial acoustic provinces was carried out by visual examination of multibeam backscatter data. In this process, backscatter was taken as a proxy for bottom type, and our goal was to subdivide or stratify each region into separate provinces, each consisting of a homogeneous bottom type (Figures 2-5). Sampling stations were randomly positioned within each acoustic province, although we did modify target positions such that sampling stations were at least 100 meters from any boundary or any other station if possible. Great Peconic East was subdivided into three initial acoustic provinces (A,C,F) and was sampled on May 29, 2008. Thirteen initial acoustic provinces (A-M) were identified for Little Peconic Bay, and sampling was carried out on December 12, 2007. Noyak Bay was subdivided into fourteen provinces (E,J,L-W) and sampled on May 28-29, 2008. Nine initial provinces (A-I) were identified for Shelter Island West, and this area was sampled on May 28, 2008. In all these regions, one bottom sample was collected at each sampling station. It should be noted that letters associated with acoustic provinces are for identification purposes only and were arbitrarily assigned, i.e., there is no correspondence between provinces labeled "A" among regions.

Faunal and Sediment sampling

Faunal and sediment sampling was conducted aboard the R/V Pritchard operated by Stony Brook University. Bottom water temperature and salinity were measured at each sampling location, except on May 28, 2008, when the YSI CTD failed to operate. Bottom samples were collected using a modified van Veen grab (0.04 m^2). Subsamples of sediments for grain size and organic content were drawn from each grab sample. The remaining sediment was washed through a 0.5 mm sieve for fauna. All material left on the sieve was preserved in 10% buffered formalin and stained with rose bengal. Faunal samples were rewashed in the lab and transferred to 70% ethanol before sorting and identification. Individual organisms were identified to species level whenever possible and the total for each taxon enumerated. Unless otherwise noted, all abundances are expressed as the number of individuals per sample (i.e., per 0.04 m^2).

Sediment subsamples were processed for organic content and grain-size. Sediment organic content was estimated by weight loss on ignition (LOI) when dry sediment samples were combusted at 450°C for at least 4 hours. Sediment grain-size analyses measured percent composition by weight of major size-fractions (gravel, sand, silt, clay), as well as the detailed grain-size distribution in $\frac{1}{2}$ phi intervals. We used a combination of dry sieve, settling column, and sedigraph analyses for the gravel, sand, and silt-clay fractions, respectively. Samples were initially partitioned into three size-fractions by wet sieving with distilled water through a combination of 1 mm and 63 micron sieves. The $>1\text{ mm}$ and $1\text{ mm}-63\text{ micron}$ fractions were placed in a drying oven at 60°C for at least 48 hours to obtain dry weights. Water containing the $<63\text{ micron}$ fraction (silt-clay) was brought up to 1000ml total volume in a graduated cylinder, mixed thoroughly, and subsampled with a 20 ml pipette at a depth of 20 cm, 20 seconds after mixing (Folk 1964). Pipette samples were placed in a drying oven at 60°C for at least 48 hours to obtain dry weight estimates of the silt-clay fraction. The remaining water containing the $<63\text{ micron}$ fraction (silt-clay) was reserved for later grain-size analysis in the sedigraph.

The detailed grain-size distribution of the >1 mm fraction was determined by dry sieving samples through a stack of sieves with the following sizes: 12.5 mm, 9.5 mm, 6.3 mm, 4.75 mm, 3.35 mm, 2 mm, 1.42 mm, and 1mm. Material remaining on each sieve was weighed.

The grain-size distribution of the 1 mm-63 micron fraction was determined by settling column analysis. The settling column consisted of a 193.5 cm tall PVC tube with an internal diameter of 15.2 cm filled with distilled water. Samples were introduced at the top of the column and a collecting pan connected to a balance registered weight as particles settled through the water. A computer connected to the balance recorded cumulative weight and elapsed time for each sample. Weight-time data were converted to sedimentation diameter using an empirical equation in Gibbs et al. (1971). A particle roughness correction suggested by Baba and Komar (1981) was also applied.

A Micromeritics SediGraph 5100 was used to analyze the <63 micron (silt-clay) fraction. Water containing the <63 micron fraction was centrifuged for approximately ten minutes. Water was then decanted from the sample, and the sedimented material was rewetted with a 0.5% Calgon solution to reduce coagulation of clay particles. Samples were run using standard techniques obtained from the manufacturer. As a final step in the sediment analysis, results from the dry sieve, settling column, and sedigraph analyses were combined, and grain-size distribution in $\frac{1}{2}$ phi intervals was obtained by linear interpolation. Mean grain-size and sorting (standard deviation) measures were computed from the cumulative distribution.

Data Entry and Summary

Data were entered into either Microsoft Excel spreadsheets or a Microsoft Access database. Faunal data were summarized by converting Access tables to a format compatible with PC-ORD (MJM Software Design, PO Box 129, Gleneden Beach, Oregon 97388) and using summary commands within this program. Transferring data to PC-ORD required assigning a unique 8-character code to each species. This was created by using the first 4 characters of both the genus and species name. A GIS geodatabase was created in ArcEditor version 9.3 (ESRI, 380 New York Street, Redlands, CA 92373-8100) to display the data in the appropriate geographic context. Because the number of taxa collected in the combined Phase I- III data sets exceeded the table size limit of 256 columns in Access, faunal data were split into four groups (crustacea, molluscs, polychaetes, and other fauna) to import into the geodatabase.

Multivariate Analysis

Redundancy analysis (RDA) was used to examine the relationship between benthic community variation and environmental data. RDA is a direct gradient ordination technique that combines ordination of sample sites based on species abundance data with regression on the environmental data (Jongman *et al.*, 1995). By examining the environmental and biological data simultaneously, this analysis depicts the trends in the species data that are related to the selected environmental data. RDA is based on Euclidean distance, which is not the most appropriate resemblance measure for species data, since it incorrectly interprets shared species absences between samples as similarities. In order to circumvent this shortcoming, a Hellinger

transformation was applied to species abundances as recommended by Legendre and Gallagher (2001). Significance of environmental variables in explaining community variation was determined through permutation tests.

An initial set of significant environmental variables was identified by forward selection using RDA (Jongman *et al.*, 1995). With this method, the variable that explains the greatest fraction of community variation is added first, and subsequent variables are added in order until the permutation test is nonsignificant. All environmental variables added prior to the one being tested are treated as covariates and their effect on community structure removed. Environmental variables consisted of both nominal (categorical) variables and continuous variables. Season and region were treated as nominal variables. Water depth, grab penetration depth, depth of the RPD, percent gravel, percent sand, percent silt, percent clay, mean grain size, sorting, and organic content were treated as continuous variables. Salinity and temperature were not included in this analysis since, as mentioned earlier, the YSI CTD failed to operate on one of the sampling dates (5/28/2008). Analyses were carried out using Canoco 4.5 (Microcomputer Power, 111 Cove Lane, Ithaca, NY 14850).

Variables identified by forward selection were trimmed by the AICc stopping criterion (Burnham and Anderson 1998) to create a final parsimonious set. This set was identified as the forward selection stage with the smallest AICc value. Use of this trimming procedure avoids family error rate problems associated with multiple significance tests. To produce a final ordination diagram, the multivariate analysis was re-calculated with just those variables retained by the AICc selection criterion and their nonindependent counterparts, if clearly evident. For example, when % gravel, sand, silt or clay was selected by the model, the remaining variables in that set (the four variables are not independent and sum to 100%) were also included in the final ordination.

Nematodes generally do not provide substantial information about macrofaunal community structure, but because they are so abundant, they can dominate multivariate analyses and obscure contributions of other species. This can occur even when transformations such as the Hellinger transformation are used to down-weight the influence of highly abundant species. Therefore, all multivariate analyses were carried out without nematode abundance data.

RESULTS

General description of the sediments and faunal community

Three of the four regions had restricted sediment distributions, with samples in these three regions tending to align along one of the three axes of a sediment ternary diagram (Figure 6). Shelter Island West had the coarsest sediments. In this region, only 2 of 21 samples (10%) had >25% silt-clay, and mean grain size (0.44 mm) was in the medium sand range. Sediments in two regions, Great Peconic East and Noyak Bay had low gravel (with shell) contents. At Great Peconic East, only 1 of 15 stations (5%) had >25% gravel, and the median grain size was in the very fine sand range (0.07 mm). Noyak Bay had only 3 of 33 (9%) stations with >25% gravel. Mean grain size was in the coarse silt range (0.05 mm). Mean grain size at Little Peconic Bay was also coarse silt (0.04 mm), but stations covered a greater array of sediment types than the other three regions (Figure 6). Field data and grain size summary data tabulated by sample are

contained in Appendices 1 and 2. Grain size data for each sample expressed as percent by weight in half phi intervals are given in Appendix 3.

A total of 17,097 animals representing 153 taxa were collected in the 103 samples. Average abundance was 166 individuals per sample. Of the 153 taxa, 46.4% were polychaetes, 24.8% were molluscs, 23.5% were crustaceans, and the remainder (5.3%) were distributed among other groups (Table 1). With the exception of the capitellid polychaete *Capitella* sp (27 per sample) and the maldanid polychaete *Clymenella zonalis* (10 per sample), all other taxa were represented by less than 10 individuals per sample on average. Eleven taxa were cosmopolitan and occurred in greater than 50% of the samples. These included the capitellid polychaete *Capitella* sp (85 samples), the spionid polychaete *Polydora* sp (76 samples), oligochaetes (68 samples), the cirratulid polychaete *Tharyx* sp (67 samples), the maldanid polychaete *Clymenella zonalis* (66 samples), the ampeliscid amphipod *Ampelisca vadorum* (61 samples), the paranoid polychaete *Aricidea catherinae* (59 samples), the spionid polychaete *Minuspia* sp (56 samples), the blood worm *Glycera americana* (53 samples), the lyonsiid bivalve *Lyonsia hyalina* (52 samples), and the red-lined worm *Nephtys incisa* (52 samples). Faunal summary statistics by sample are contained in Appendix 4.

Average faunal abundances in each region were 292 individuals per sample for Great Peconic East, 162 individuals per sample for Little Peconic, 134 individuals per sample for Noyak Bay, and 134 individuals per sample for Shelter Island West. Faunal data tabulated by region and sample are contained in Appendix 5.

a) Great Peconic East

Fifteen samples were collected in Great Peconic East. They were collected within 3 acoustic provinces. Water depths ranged from 2.5 to 7.3 meters, and this region was the shallowest on average of those sampled during Phase III. Only 1 sample had >25% gravel (and shell). Percent sand ranged from 6 to 95%, and percent silt-clay from 2% to 94%. The 5 samples from province GPEC were the only ones with >50% silt-clay. Organic content varied from 0.3 to 5.5%.

Abundances ranged from 42 to 1009 individuals per sample and species richness varied from 6 to 48 species per sample. We collected 106 species in this region. The capitellid polychaete *Capitella* sp was the most abundant taxa and represented 21.5% of the total number of individuals collected (Table 2). Other abundant species included the maldanid polychaete *Clymenella zonalis* (11.3%), the barnacle *Balanus amphitrite* (9.5%), oligochaetes (5.6%), the slipper shell *Crepidula fornicate* (4.4%), and the spionid polychaete *Minuspia* sp (4.2%). Commercial species collected included the razor clam *Ensis directus* at one station (GPEF3) and the hard clam *Mercenaria mercenaria* at six stations (GPEA1-3, GPEF1, GPEF4-5).

b) Little Peconic Bay

Thirty-four samples were collected in the 13 acoustic provinces. Sediments were the most diverse of the 4 regions studied in Phase III, with gravel (and shell) ranging from 0 to 66%, sand

from 5 to 90%, and silt-clay from 7 to 96%. Organic contents varied between 0.7 and 6.3%. Water depths ranged from 4.3 to 13.3 m.

Faunal abundances ranged from 18 to 701 individuals per sample. Number of species per sample varied between 5 and 39. A total of 98 species were collected. Nematodes represented 16.9% of all the individuals collected (Table 2). Other abundant taxa included the capitellid polychaete *Capitella* sp (13.2%), the cirratulid polychaete *Tharyx* sp (7.7%), the spionid polychaete *Minuspio* sp (5.8%), the bivalve *Macoma tenta* (5.2%), and the spionid polychaete *Polydora* sp (4.6%). The only commercial species collected in grab samples from this region were the razor clam *Ensis directus* at one station (LPC2) and the hard clam *Mercenaria mercenaria* taken at two stations (LPA2, LPC3).

c) Noyak Bay

Thirty-three samples were collected in the Noyak Bay region. These were distributed among 14 provinces. Water depths ranged from 4.5 to 23.2 meters. Only 3 stations in this region had gravel (and shell) contents >25%. Percent sand ranged from 6 to 95%, and percent silt-clay from 2 to 93%, indicating that a wide range of bottom types were present despite the limited gravel content. Organic content ranged from 0.6 to 6.3%.

Faunal abundances varied from 7 to 310 individuals per sample, and species richness ranged from 3 to 38 species per sample. A total of 109 taxa were collected. Numerically abundant species included the capitellid polychaete *Capitella* sp (16.7%), the spionid polychaete *Polydora* sp (10.3%), the maldanid polychaete *Clymenella zonalis* (9.8%), the paranoid polychaete *Aricidea catherinae* (5.6%), the spionid polychaete *Minuspio* sp (5.0%), the cirratulid polychaete *Tharyx* sp (5.0%), and oligochaetes (4.2%). Commercial species collected included the razor clam *Ensis directus* at twelve stations (NBE1, NBE2, NBJ1, NBM2, NBN1, NBN2, NBO1, NBO2, NBP2, NBQ2, NBR1, NBR2) and the hard clam *Mercenaria mercenaria* at three stations (NBM1, NBM2, NB01).

d) Shelter Island West

Within Shelter Island West, 21 samples were collected at 9 acoustic provinces. Water depths at the sampling stations varied between 4.0 and 22.7 m, and this area had the greatest average depth (10.1 m) of the four Phase III regions. Most samples were sandy or a mixture of sand and gravel (with shell). Silt-clay content ranged from 0 to 85%, but only 2 samples contained >25% silt-clay. Percent sand ranged from 9 to 99% and percent gravel from 0 to 83%. Organic content varied between 0.2 to 5.4%.

Abundances were between 9 and 288 individuals per sample, and species richness varied from 7 to 39 species per sample. A total of 101 species were collected. Abundant species included the paranoid polychaete *Aricidea catherinae* (15.9%), the capitellid polychaete *Capitella* sp (12.9%), the amphipod *Ampelisca vadorum* (9.5%), and oligochaetes (5.1%) (Table 2). Four commercial shellfish were collected in this region, the razor clam *Ensis directus* at eight locations (SWC1, SWE2, SWE4, SWF2, SWG1, SWG2, SWH2, SWI2), the hard clam *Mercenaria mercenaria* (SWA1), the blue mussel *Mytilus edulis* (SWF2), and the surf clam *Spisula solidissima* (SWB1).

Distribution of commercial shellfish species

The 0.04 m² van Veen grab sampler used in the current study is too small to provide quantitative abundance estimates of commercially important shellfish. Nevertheless, the occurrence of commercial shellfish is worth noting. Commercial shellfish species were found in all regions, but occurred at increased frequency from west to east, with Noyak Bay and Shelter Island West having the most stations with commercial shellfish during Phase III (Table 3).

Multivariate analysis

Forward selection RDA resulted in identifying 6 significant environmental variables, but final results were trimmed to 5 variables using the AICc stopping criterion (Figure 7). The final set environmental variables explained 17.2% of the variance in community structure. Two regional variables (GPE and LP) were included in the 5 variable set. Because only one region, Little Peconic Bay (LP), was sampled in the Fall, it was not possible to test for a seasonal pattern independently from region. The nominal variables for Noyak Bay and Shelter Island West do not appear on the plot but were selected when their collinear variables (Great Peconic East and Little Peconic) entered the forward selection analysis. Of the quantitative sediment variables, percent silt and sorting explained community variation. Percent sand, percent clay, and organic content were highly correlated to percent silt ($r=-0.87, 0.98$, and 0.96 respectively) and were not selected principally because percent silt was chosen. Similarly, mean grain size was not chosen because it was highly correlated to percent silt ($r=0.95$) and sorting ($r=0.90$). Water depth was retained after applying the AICc stopping criterion, but grab penetration depth and depth of the RPD were not selected.

The RDA ordination triplot in Figure 8 shows the relationship between community structure and the final set of environmental variables (and their complementary, collinear counterparts). In this ordination diagram, blue points represent the community structure at each station; those that plot close to one another have similar species composition while points far apart are dissimilar. The red points and arrows represent nominal and quantitative environmental variables, respectively. The red points are located at the centroid of the samples with the characteristic of the nominal variable (e.g., the triangle labeled LP is the centroid of the Little Peconic Bay samples). The arrows represent the direction of steepest increase for the quantitative environmental variables. The origin is the mean of the variable and decreasing values for the quantitative environmental variable extend through the origin in the direction opposite the head of the arrow. The black arrows represent the abundances of selected species whose variances are well explained by the first two ordination axes. Sample points can be orthogonally projected onto the arrow of a species or environmental variable (i.e., the direction of the projected point is perpendicular to the arrow); this projection approximately orders the samples from the largest to the smallest values for that variable.

Because of the complexity of the RDA triplot, the next several figures will reproduce the plot with some details emphasized and others removed for clarity. In Figure 9, envelopes are drawn around the samples representing each of the four regions. Envelopes for each region are broad because each region was a mixture of habitats. The faunal composition of samples with finer

grained sediments seemed to be more similar among regions than samples with coarser sediments. This fine grained similarity appears as a dense cluster of samples from all regions in the left side of Figure 9. The distribution of selected quantitative environmental variables and species are given in Figures 10 and 11, respectively.

Phase I-III province map

Provinces identified in the Phase III surveys were rectified with Phase I and II provinces in places where sonar data for the surveys overlapped. A single consistent Phase I-III province map was prepared in ArcEditor by merging adjacent provinces when indicated by the sonar data. The attribute table of this map provides a detailed listing of the merged provinces.

DISCUSSION

Consistent with the acoustic survey, heterogeneity was found in sediment and faunal characteristics within regions. Although three of the four regions had sediment distributions that were restricted to one of the three axes of the ternary diagram (Figure 6), the spread of samples along that axis tended to cover almost the entire possible sediment range. At Shelter Island West, for example, sediments varied from 83% gravel to 99% sand. At Noyak Bay, the sediment ranged from 95% sand to 93% silt-clay, and sediments from 95% sand to 94% silt-clay were found within Great Peconic East. Little Peconic Bay had a more obvious mixture of bottom types that included large variations in all three components of the ternary diagram (Figure 6). Faunal abundances typically differed by over an order of magnitude among stations within a region, while species richness per sample varied by a factor of 5 to 12 times among stations within a region. The variability in both sediments and fauna within a region highlights the importance of acoustic mapping of the seafloor as a critical foundation for habitat and biotope characterization. It also underscores the continued need for ground truth sampling in future studies.

The sediment grain-size results (Figure 6) and the RDA analysis (Figures 7-11) confirmed our original interpretation of the sonar maps (Figures 2-5) that each region contained multiple habitats. The Phase III data set did not allow us to carry out a biotope analysis to examine the variability in province-level, within-region characteristics, as was done for the Shelter Island and Robins Island regions in Phase I (Cerrato and Maher 2007). In that study it was determined that biotope analysis requires about 10 samples per province to test whether homogeneous environmental and biological properties are present in a province (Cerrato and Maher 2007). Unfortunately, the Phase III data set had no province with more than 5 samples (Figures 2-5). In addition, the sampling effort was not intensive enough to identify most of the rare species present, so we could not estimate the total species richness for provinces within regions or for the regions themselves. Therefore, the results of the present study, while providing important ground truth information, should not be interpreted as being sufficient to fully characterizing the habitats and community structure of the regions sampled.

The final set environmental variables identified in the RDA analysis explained 17.2% of the variance in community structure (Figure 7). This is a very modest result. Cerrato and Maher (2007), with more intensive sampling in regions off Robins Island and Shelter Island (10 samples

per province), were able to take the initial provinces identified in the sonar data and, through the biotope process outlined in their report, arrive at a set of province-level nominal, environmental variables that when added to grain-size and other environmental data explained > 50% of the variation in community structure. This three-fold difference in explained variation highlights the value of being able to subdivide regions into provinces consisting of homogeneous environmental and faunal characteristics (i.e., biotopes). It also clearly indicates that the appropriate spatial unit for management decisions should be the biotope and not the region.

Faunal comparisons among the four regions or between Phases I-III should be carried out with caution. Region and season were confounded, with regions only sampled during one season and with Little Peconic Bay sampled in the fall, while the other regions were sampled in spring. Seasonal changes in the benthic community can be quite large (Cerrato 2006), so comparisons of regions with samples collected in different seasons can be problematic. The original plan was to carry out all sampling in the fall. Unfortunately, the timing of the funding, combined with the dependence of the ground truth survey on the availability of completed sonar maps, placed practical limitations on when sampling could be carried out. Similarly, since benthic communities in near shore areas can vary between years (Cerrato 2006), inter-annual differences would be expected to limit Phase I-III comparisons.

Interestingly, Phase III results reinforce the observation made in Cerrato and Maher (2007) and Cerrato *et al.* (2009) that no west to east spatial gradient in species richness exists in the Peconics (Figure 12). A linear regression of species richness against the latitude of the stations for all Phase I-III data indicated that slope of the pooled data was not significantly different from zero ($t=0.31$, $df=378$, $p=0.76$). This outcome contrasts with a clear west to east gradient found in Long Island Sound (Figure 12). Zajac (1998) attributed the spatial gradient in Long Island Sound to a combination of a reduced species pool, lower habitat heterogeneity, and long-term environmental deterioration in the western portion of the Sound. No such conditions and/or problems are apparent in the Peconics Estuary System.

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Table 1. List of taxa collected during Phase III sampling.

Code	Phylum	Class	Order	Family	Species
177	Mollusca	Gastropoda		Acteonidae	<i>Acteocina canaliculata</i>
30	Arthropoda	Crustacea	Amphipoda	Ampeliscidae	<i>Ampelisca vadorum</i>
32	Arthropoda	Crustacea	Amphipoda	Ampeliscidae	<i>Ampelisca verrilli</i>
143	Annelida	Polychaeta		Ampharetidae	<i>Ampharete arctica</i>
118	Annelida	Polychaeta		Ampharetidae	<i>Ampharetidae sp</i>
167	Echinoderma	Stelleroidea			<i>Amphioplus abditus</i>
62	Mollusca	Bivalvia		Arcidae	<i>Anadara transversa</i>
61	Mollusca	Bivalvia		Anomiidae	<i>Anomia simplex</i>
204	Arthropoda	Pycnogonida			<i>Anoplodactylus latus</i>
29	Annelida	Polychaeta		Arabellidae	<i>Arabella iricolor</i>
11	Annelida	Polychaeta		Paraonidae	<i>Aricidea catherinae</i>
86	Annelida	Polychaeta		Ampharetidae	<i>Asabellides oculata</i>
153	Annelida	Polychaeta		Maldanidae	<i>Asychis elongata</i>
119	Annelida	Polychaeta		Syllidae	<i>Autolytus cornutus</i>
288	Annelida	Polychaeta		Syllidae	<i>Autolytus fasciatus</i>
289	Arthropoda	Crustacea			<i>Balanus amphitrite</i>
46	Arthropoda	Crustacea	Amphipoda	Pontogeneiidae	<i>Batea catharinensis</i>
295	Mollusca	Gastropoda		Cerithiidae	<i>Bittium alternatum</i>
60	Mollusca	Bivalvia			<i>Bivalvia sp</i>
189	Annelida	Polychaeta		Syllidae	<i>Brania clavata</i>
19	Annelida	Polychaeta		Syllidae	<i>Brania wellfleetensis</i>
77	Mollusca	Gastropoda		Melongenidae	<i>Busycon carica</i>
2	Annelida	Polychaeta		Capitellidae	<i>Capitellidae sp</i>
35	Arthropoda	Crustacea	Amphipoda	Caprellidae	<i>Caprella penantis</i>
308	Arthropoda	Crustacea	Amphipoda	Caprellidae	<i>Caprellidae sp</i>
180	Mollusca	Gastropoda	Cephalaspidea		<i>Cephalaspidea sp</i>
305	Mollusca	Gastropoda		Cerithiopsidae	<i>Cerithiopsis emersonii</i>
78	Mollusca	Polyplacophora			<i>Chaetopleura apiculata</i>
292	Annelida	Polychaeta		Maldanidae	<i>Clymenella zonalis</i>
290	Mollusca	Bivalvia		Corbulidae	<i>Corbula contracta</i>
85	Arthropoda	Crustacea	Amphipoda	Corophiidae	<i>Corophium sp</i>
234	Annelida	Polychaeta		Cirratulidae	<i>Cossura longocirrata</i>
214	Arthropoda	Crustacea	Decapoda	Crangonidae	<i>Crangon septemspinosa</i>
89	Mollusca	Bivalvia		Crassatellidae	<i>Crassinella mactacea</i>
75	Mollusca	Gastropoda		Calyptaeidae	<i>Crepidula fornicata</i>
76	Mollusca	Gastropoda		Calyptaeidae	<i>Crepidula plana</i>
158	Mollusca	Bivalvia		Semelidae	<i>Cumingia tellinoides</i>
284	Arthropoda	Crustacea	Decapoda		<i>Decapoda megalopa</i>
122	Annelida	Polychaeta		Arabellidae	<i>Drilonereis longa</i>
297	Annelida	Polychaeta		Arabellidae	<i>Drilonereis magna</i>
52	Arthropoda	Crustacea	Decapoda	Xanthidae	<i>Dyspanopeus sayi</i>
41	Arthropoda	Crustacea	Amphipoda	Meltiidae	<i>Elasmopus levis</i>
68	Mollusca	Bivalvia		Solenidae	<i>Ensis directus</i>
111	Arthropoda	Crustacea	Amphipoda	Corophiidae	<i>Erichthonius brasiliensis</i>
39	Arthropoda	Crustacea	Amphipoda	Corophiidae	<i>Erichthonius sp</i>
133	Annelida	Polychaeta		Phyllodocidae	<i>Eteone lactea</i>
13	Annelida	Polychaeta		Phyllodocidae	<i>Eumida sanguinea</i>
136	Mollusca	Gastropoda		Muricidae	<i>Eupleura caudata</i>
20	Annelida	Polychaeta		Syllidae	<i>Exogone dispar</i>
71	Mollusca	Bivalvia		Veneridae	<i>Gemma gemma</i>
140	Annelida	Polychaeta		Glyceridae	<i>Glycera americana</i>
238	Annelida	Polychaeta		Gonianidae	<i>Glycinde solitaria</i>

Table 1. List of taxa collected during Phase III sampling.

Code	Phylum	Class	Order	Family	Species
115	Annelida	Polychaeta		Gonianidae	<i>Goniadella gracilis</i>
145	Annelida	Polychaeta		Hesionidae	<i>Gyptis vittata</i>
277	Annelida	Polychaeta		Polynoidae	<i>Harmothoe imbricata</i>
291	Annelida	Polychaeta		Polynoidae	<i>Harmothoe sp</i>
55	Arthropoda	Crustacea	Mysidacea		<i>Heteromysis formosa</i>
168	Annelida	Polychaeta		Serpulidae	<i>Hydroides dianthus</i>
161	Mollusca	Gastropoda		Nassariidae	<i>Ilyanassa trivittata</i>
138	Arthropoda	Crustacea	Isopoda		<i>Isopoda sp</i>
186	Arthropoda	Crustacea	Amphipoda	Ischyroceridae	<i>Jassa falcata</i>
203	Mollusca	Bivalvia		Cardiidae	<i>Laevicardium mortoni</i>
33	Arthropoda	Crustacea	Amphipoda	Aoridae	<i>Lembos smithi</i>
57	Arthropoda	Crustacea	Decapoda		<i>Libinia emarginata</i>
40	Arthropoda	Crustacea	Amphipoda	Liljeborgiidae	<i>Listriella barnardi</i>
36	Arthropoda	Crustacea	Amphipoda	Caprellidae	<i>Luconacia incerta</i>
200	Annelida	Polychaeta		Lumbrineridae	<i>Lumbrineris fragilis</i>
5	Annelida	Polychaeta		Lumbrineridae	<i>Lumbrineris tenuis</i>
64	Mollusca	Bivalvia		Lyonsiidae	<i>Lyonsia hyalina</i>
150	Arthropoda	Crustacea	Amphipoda	Lysianassidae	<i>Lysianopsis alba</i>
244	Mollusca	Bivalvia		Tellinidae	<i>Macoma tenta</i>
160	Annelida	Polychaeta		Ampharetidae	<i>Melinna cristata</i>
42	Arthropoda	Crustacea	Amphipoda	Meltiidae	<i>Melita nitida</i>
70	Mollusca	Bivalvia		Veneridae	<i>Mercenaria mercenaria</i>
293	Annelida	Polychaeta		Hesionidae	<i>Microphthalmus sczelkowii</i>
212	Annelida	Polychaeta		Spionidae	<i>Minuspio sp</i>
283	Arthropoda	Crustacea	Amphipoda	Oedicerotidae	<i>Monoculodes sp</i>
137	Mollusca	Bivalvia		Mactridae	<i>Mulinia lateralis</i>
296	Mollusca	Bivalvia		Mytilidae	<i>Mytilus edulis</i>
109	Mollusca	Gastropoda		Naticidae	<i>Naticidae sp</i>
80	Nematoda	Nematoda			<i>Nematoda sp</i>
7	Annelida	Polychaeta		Nephtyidae	<i>Nephtys picta</i>
210	Annelida	Polychaeta		Nephtyidae	<i>Nephtys incisa</i>
298	Annelida	Polychaeta		Nereidae	<i>Nereis grayi</i>
8	Annelida	Polychaeta		Nereidae	<i>Nereis succinea</i>
132	Annelida	Polychaeta		Terebellidae	<i>Nicolea sp</i>
273	Annelida	Polychaeta		Maldanidae	<i>Nicomache lumbricalis</i>
66	Mollusca	Bivalvia		Nuculidae	<i>Nucula proxima</i>
4	Annelida	Polychaeta		Syllidae	<i>Odontosyllis fulgorans</i>
1	Annelida	Oligochaeta			<i>Oligochaeta sp</i>
116	Annelida	Polychaeta		Ophiliidae	<i>Ophelia sp</i>
146	Annelida	Polychaeta		Orbiniidae	<i>Orbinia sp</i>
82	Ostracoda	Crustacea	Cumacea		<i>Ostracod A</i>
83	Ostracoda	Crustacea	Decapoda	Paguridae	<i>Ostracod B</i>
258	Annelida	Polychaeta		Oweniidae	<i>Owenia fusiformis</i>
50	Arthropoda	Crustacea			<i>Oxyurostylis smithi</i>
43	Arthropoda	Crustacea	Decapoda	Paguridae	<i>Pagurus longicarpus</i>
303	Arthropoda	Crustacea	Decapoda		<i>Palaemonetes pugio</i>
51	Mollusca	Bivalvia		Pandoridae	<i>Pandora gouldiana</i>
53	Arthropoda	Crustacea	Decapoda	Xanthidae	<i>Panopeus herbstii</i>
37	Arthropoda	Crustacea	Amphipoda	Caprellidae	<i>Paracaprella tenius</i>
304	Arthropoda	Crustacea	Amphipoda	Haustoriidae	<i>Parahaustorius holmesi</i>
174	Annelida	Polychaeta		Phyllodocidae	<i>Paranaitis speciosa</i>
96	Arthropoda	Crustacea	Amphipoda	Phoxocephalidae	<i>Paraphoxus spinosus</i>

Table 1. List of taxa collected during Phase III sampling.

Code Phylum	Class	Order	Family	Species
21 Annelida	Polychaeta		Syllidae	<i>Parapionosyllis longicirrata</i>
107 Annelida	Polychaeta		Pectinariidae	<i>Pectinaria gouldii</i>
67 Mollusca	Bivalvia		Periplomatidae	<i>Periploma leanum</i>
113 Annelida	Polychaeta		Phyllodocidae	<i>Phyllodoce arenae</i>
59 Arthropoda	Crustacea	Decapoda		<i>Pinnixa sp</i>
307 Annelida	Polychaeta		Terebellidae	<i>Pista Cristata</i>
63 Annelida	Polychaeta		Terebellidae	<i>Pista palmata</i>
123 Annelida	Polychaeta		Hesionidae	<i>Podarke obscura</i>
126 Arthropoda	Crustacea	Isopoda		<i>Politolana concharum</i>
205 Annelida	Polychaeta		Spionidae	<i>Polydora ligni</i>
16 Annelida	Polychaeta		Spionidae	<i>Polydora sp</i>
14 Annelida	Polychaeta		Polygordiidae	<i>Polygordius sp</i>
131 Annelida	Polychaeta		Spionidae	<i>Prionospio heterobranchia</i>
97 Annelida	Polychaeta		Spionidae	<i>Prionospio pinnata</i>
209 Mollusca	Gastropoda		Acteonidae	<i>Rictaxis punctostriatus</i>
105 Arthropoda	Crustacea	Amphipoda	Aoridae	<i>Rudilemboides naglei</i>
148 Annelida	Polychaeta		Sabellidae	<i>Sabella microphthalmia</i>
270 Annelida	Polychaeta		Sabellidae	<i>Sabellaria vulgaris</i>
271 Annelida	Polychaeta		Sabellidae	<i>Sabellidae sp</i>
134 Annelida	Polychaeta		Dorvilleidae	<i>Schistomeringos caecus</i>
135 Annelida	Polychaeta		Dorvilleidae	<i>Schistomeringos rudolphi</i>
182 Annelida	Polychaeta		Spionidae	<i>Scolelepis squamata</i>
264 Annelida	Polychaeta		Orbiniidae	<i>Scoloplos sp</i>
74 Mollusca	Gastropoda		Cerithiopsidae	<i>Seila adamsi</i>
151 Mollusca	Bivalvia		Solemyidae	<i>Solemya velum</i>
172 Mollusca	Bivalvia		Solenidae	<i>Solen viridis</i>
310 Mollusca	Bivalvia		Solenidae	<i>Solenidae sp</i>
22 Annelida	Polychaeta		Syllidae	<i>Sphaerosyllis erinaceus</i>
23 Annelida	Polychaeta		Syllidae	<i>Sphaerosyllis hystrix</i>
156 Annelida	Polychaeta		Spionidae	<i>Spio sp</i>
309 Annelida	Polychaeta		Chaetopteridae	<i>Spiochaetopterus oculatus</i>
18 Annelida	Polychaeta		Spionidae	<i>Spiophanes bombyx</i>
103 Mollusca	Bivalvia		Mactridae	<i>Spisula solidissima</i>
121 Arthropoda	Crustacea	Amphipoda	Stenothoidae	<i>Stenothoe minuta</i>
139 Annelida	Polychaeta		Sigalionidae	<i>Sthenelais boa</i>
166 Annelida	Polychaeta		Spionidae	<i>Streblospio benedicti</i>
110 Annelida	Polychaeta		Syllidae	<i>Syllides setosa</i>
24 Annelida	Polychaeta		Syllidae	<i>Syllis gracilis</i>
198 Arthropoda	Pycnogonida			<i>Tanystylum orbiculare</i>
69 Mollusca	Bivalvia		Tellinidae	<i>Tellina agilis</i>
306 Annelida	Polychaeta		Terebellidae	<i>Terebellidae sp</i>
25 Annelida	Polychaeta		Cirratulidae	<i>Tharyx sp</i>
9 Annelida	Polychaeta		Opheliidae	<i>Travisia carnea</i>
99 Platyhelminthes	Turbellaria			<i>Turbellaria sp</i>
175 Mollusca	Gastropoda		Pyramidellidae	<i>Turbonilla sp</i>
223 Mollusca	Gastropoda		Turridae	<i>Turridae sp</i>
129 Arthropoda	Crustacea	Amphipoda	Aoridae	<i>Unciola irrorata</i>
280 Arthropoda	Crustacea	Amphipoda	Aoridae	<i>Unciola sp</i>
294 Mollusca	Gastropoda		Muricidae	<i>Urosalpinx cinerea</i>

Table 2. Taxa within top 95% of the fauna in at least one region.

Species	IDCode	Average Abundance (per sample)				Percent of Fauna			
		Shelter		Great		Shelter		Great	
		Little	Island	Peconic	East	Little	Island	West Noyak Bay	East
<i>Acteocina canaliculata</i>	Actecana	0.5	0.2	0.3	0.4	0.31	0.18	0.23	0.14
<i>Ampelisca vadorum</i>	Ampevado	1.5	12.8	3.3	2.9	0.93	9.50	2.47	1.01
<i>Ampelisca verrilli</i>	Ampeverr	0.1	3.2	1.6	0.8	0.05	2.41	1.20	0.27
<i>Ampharete arctica</i>	Ampharct	0.5	4.5	1.9	1.1	0.31	3.33	1.45	0.39
<i>Ampharetidae sp</i>	Amphtdae	0.1	0.1	0.0	0.0	0.04	0.07	0.00	0.00
<i>Amphioplus abditus</i>	Amphabdi	4.0	0.1	2.7	2.5	2.50	0.11	1.99	0.85
<i>Anadara transversa</i>	Anadtran	0.1	0.4	0.1	1.1	0.09	0.28	0.07	0.39
<i>Anomia simplex</i>	Anomsimp	0.1	0.3	0.2	0.8	0.04	0.21	0.11	0.27
<i>Aricidea catherinae</i>	Ariccath	2.5	21.3	7.5	6.2	1.53	15.85	5.62	2.13
<i>Asychis elongata</i>	Asycelon	0.9	0.0	0.4	2.0	0.55	0.00	0.32	0.69
<i>Autolytus cornutus</i>	Autocorn	0.2	0.5	0.1	0.0	0.13	0.35	0.05	0.00
<i>Balanus amphitrite</i>	Balaamph	2.6	4.2	1.1	27.6	1.64	3.16	0.84	9.47
<i>Batea catharinensis</i>	Batecath	4.6	2.8	1.1	1.2	2.82	2.06	0.82	0.41
<i>Bittium alternatum</i>	Bittalte	0.5	0.0	0.2	2.3	0.33	0.00	0.11	0.80
<i>Brania wellfleetensis</i>	Branwell	0.1	1.5	0.7	2.3	0.09	1.10	0.50	0.80
<i>Capitellidae sp</i>	Capisp	21.4	17.3	22.3	62.7	13.22	12.87	16.65	21.52
<i>Caprellidae sp</i>	Caprsp	0.0	0.4	0.4	0.0	0.00	0.32	0.29	0.00
<i>Clymenella zonalis</i>	Clymzona	1.5	3.0	13.1	32.9	0.95	2.27	9.76	11.30
<i>Cossura longocirrata</i>	Cosslong	1.6	0.7	0.5	0.4	0.97	0.53	0.39	0.14
<i>Crassinella mactracea</i>	Crasmact	0.0	0.6	0.4	0.3	0.00	0.43	0.27	0.11
<i>Crepidula fornicata</i>	Crepforn	0.9	2.5	0.8	12.9	0.58	1.84	0.59	4.41
<i>Crepidula plana</i>	Crepplan	0.0	0.0	0.0	3.7	0.00	0.00	0.00	1.28
<i>Ensis directus</i>	Ensidiire	0.0	0.9	1.5	0.1	0.02	0.64	1.09	0.02
<i>Erichthonius brasiliensis</i>	Ericbras	0.9	0.2	0.1	0.0	0.56	0.18	0.05	0.00
<i>Exogone dispar</i>	Exogdisp	0.4	3.4	4.3	1.3	0.26	2.55	3.24	0.46
<i>Gemma gemma</i>	Gemmgem	0.0	0.0	0.0	0.9	0.02	0.00	0.00	0.32
<i>Glycera americana</i>	Glycamer	0.5	0.6	0.9	1.1	0.33	0.46	0.68	0.37
<i>Glycinde solitaria</i>	Glycsoli	2.9	0.0	0.1	3.1	1.80	0.00	0.05	1.08
<i>Gyptis vittata</i>	Gyptvitt	0.4	0.3	0.7	0.6	0.26	0.21	0.52	0.21
<i>Harmothoe imbricata</i>	Harmimbr	0.0	0.9	0.4	0.1	0.00	0.64	0.32	0.05
<i>Harmothoe sp</i>	Harmsp	1.9	3.1	1.2	0.9	1.15	2.34	0.93	0.30
<i>Isopoda sp</i>	Isopsp	0.0	1.5	0.3	0.0	0.02	1.10	0.23	0.00

Table 2. Taxa within top 95% of the fauna in at least one region.

Species	IDCode	Average Abundance (per sample)				Percent of Fauna			
		Shelter		Great		Shelter		Great	
		Little	Island	Peconic	East	Little	Island	West Noyak Bay	East
<i>Lembos smithi</i>	Lembsmit	1.3	0.2	0.5	0.2	0.78	0.14	0.34	0.07
<i>Luconacia incerta</i>	Lucoince	0.1	0.4	0.2	0.1	0.09	0.28	0.16	0.02
<i>Lumbrineris fragilis</i>	Lumbfrag	0.0	0.0	0.5	0.0	0.00	0.00	0.36	0.00
<i>Lumbrineris tenuis</i>	Lumbtenu	1.9	0.1	0.0	0.0	1.18	0.07	0.00	0.00
<i>Lyonsia hyalina</i>	Lyonhyal	3.4	2.7	1.9	1.7	2.09	1.99	1.40	0.59
<i>Macoma tenta</i>	Macotent	8.3	1.9	3.4	3.7	5.15	1.42	2.51	1.26
<i>Melinna cristata</i>	Melicris	5.7	0.0	0.8	3.7	3.55	0.04	0.59	1.26
<i>Mercenaria mercenaria</i>	Mercmerc	0.1	0.0	0.1	1.0	0.04	0.04	0.07	0.34
<i>Minuspio sp</i>	Minusp	9.3	2.0	6.7	12.3	5.76	1.49	4.98	4.23
<i>Nematoda sp</i>	Nemasp	27.2	0.0	0.0	0.0	16.87	0.00	0.00	0.00
<i>Nephtys picta</i>	Nephpict	1.5	0.9	1.2	1.5	0.93	0.67	0.93	0.53
<i>Nephtys incisa</i>	Neptinci	1.0	2.1	1.7	0.5	0.62	1.56	1.27	0.16
<i>Nereis grayi</i>	Neregray	0.1	0.4	0.2	0.1	0.05	0.28	0.11	0.02
<i>Nereis succinea</i>	Neresucc	0.0	0.0	0.0	3.8	0.00	0.00	0.00	1.30
<i>Nicolea sp</i>	Nicosp	0.1	0.0	0.0	0.1	0.05	0.00	0.00	0.02
<i>Nicomache lumbicalis</i>	Nicolumb	0.0	0.0	0.4	1.1	0.00	0.00	0.32	0.37
<i>Nucula proxima</i>	Nucuprox	0.5	1.5	1.7	8.8	0.29	1.13	1.27	3.02
<i>Odontosyllis fulgurans</i>	Odonfulg	1.4	2.9	0.8	0.5	0.89	2.13	0.63	0.16
<i>Oligochaeta sp</i>	Oligsp	2.1	6.9	5.6	16.2	1.33	5.11	4.21	5.56
<i>Ostracod A</i>	OstrA	6.2	0.2	0.6	3.8	3.84	0.18	0.43	1.30
<i>Owenia fusiformis</i>	Owenfusi	0.1	0.0	0.0	0.9	0.04	0.00	0.02	0.32
<i>Panopeus herbstii</i>	Panoherb	0.1	0.7	0.4	0.5	0.09	0.53	0.29	0.18
<i>Paracaprella tenius</i>	Parateni	0.7	0.1	0.5	0.1	0.42	0.07	0.36	0.05
<i>Paraphoxus spinosus</i>	Paraspin	0.4	1.8	0.8	0.3	0.26	1.35	0.61	0.09
<i>Parapionosyllis longicirrata</i>	Paralong	0.0	2.5	1.5	1.5	0.02	1.88	1.13	0.53
<i>Pectinaria gouldii</i>	Pectgoul	0.7	0.1	0.2	1.0	0.46	0.07	0.16	0.34
<i>Pista palmata</i>	Pistpalm	0.7	0.2	0.3	0.2	0.42	0.18	0.23	0.07
<i>Polydora ligni</i>	Polylign	1.2	0.0	0.2	2.8	0.77	0.00	0.14	0.96
<i>Polydora sp</i>	Polydora	7.5	1.4	13.8	8.4	4.64	1.06	10.28	2.88
<i>Polygordius sp</i>	Polygord	0.0	0.0	0.1	3.9	0.00	0.04	0.05	1.35
<i>Prionospio pinnata</i>	Priopinn	4.6	0.0	0.6	1.7	2.88	0.04	0.45	0.59
<i>Rudilemboides naglei</i>	Rudinagl	0.2	0.1	0.1	1.4	0.13	0.11	0.07	0.48

Table 2. Taxa within top 95% of the fauna in at least one region.

Species	IDCode	Average Abundance (per sample)				Percent of Fauna			
		Shelter			Great Peconic	Shelter			Great Peconic
		Little Peconic	Island	West Noyak Bay		Little Peconic	Island	West Noyak Bay	
<i>Scolelepis squamata</i>	Scolsqua	3.0	1.1	1.6	0.8	1.86	0.82	1.22	0.27
<i>Sphaerosyllis erinaceus</i>	Sphaerin	0.3	1.8	1.2	4.0	0.18	1.35	0.86	1.37
<i>Sphaerosyllis hystrix</i>	Sphahyst	3.6	0.8	3.1	6.9	2.24	0.57	2.31	2.38
<i>Spiophanes bombyx</i>	Spiobomb	0.7	1.4	1.0	0.1	0.42	1.03	0.75	0.05
<i>Stenothoe minuta</i>	Stenminu	0.1	0.6	0.5	0.0	0.04	0.46	0.34	0.00
<i>Syllides setosa</i>	Syllseto	0.3	1.2	0.8	0.7	0.18	0.92	0.63	0.25
<i>Syllis gracilis</i>	Syllgrac	0.0	0.4	0.0	0.0	0.00	0.28	0.00	0.00
<i>Tellina agilis</i>	Tellagil	0.2	2.3	1.0	6.6	0.13	1.74	0.77	2.26
<i>Terebellidae sp</i>	Teresp	0.0	0.6	0.3	0.1	0.00	0.46	0.23	0.02
<i>Tharyx sp</i>	Tharsp	12.4	2.1	6.7	7.5	7.65	1.60	4.98	2.58
<i>Unciola irrorata</i>	Unciirro	0.0	1.0	1.3	1.7	0.00	0.71	0.95	0.59
Fraction of Fauna						97.81	96.77	97.24	97.03
Average Abundance		161.47	134.29	133.79	291.47				

Table 3. Occurrence of commercial shellfish

Region	Common Name	Species Name	Number of Stations
Great Peconic East	Razor Clam	<i>Ensis directus</i>	1
	Hard Clam	<i>Mercenaria mercenaria</i>	6
Little Peconic	Razor Clam	<i>Ensis directus</i>	1
	Hard Clam	<i>Mercenaria mercenaria</i>	2
Noyak Bay	Razor Clam	<i>Ensis directus</i>	12
	Hard Clam	<i>Mercenaria mercenaria</i>	3
Shelter Island West	Razor Clam	<i>Ensis directus</i>	8
	Hard Clam	<i>Mercenaria mercenaria</i>	1
	Blue Mussel	<i>Mytilus edulis</i>	1
	Surf Clam	<i>Spisula solidissima</i>	1

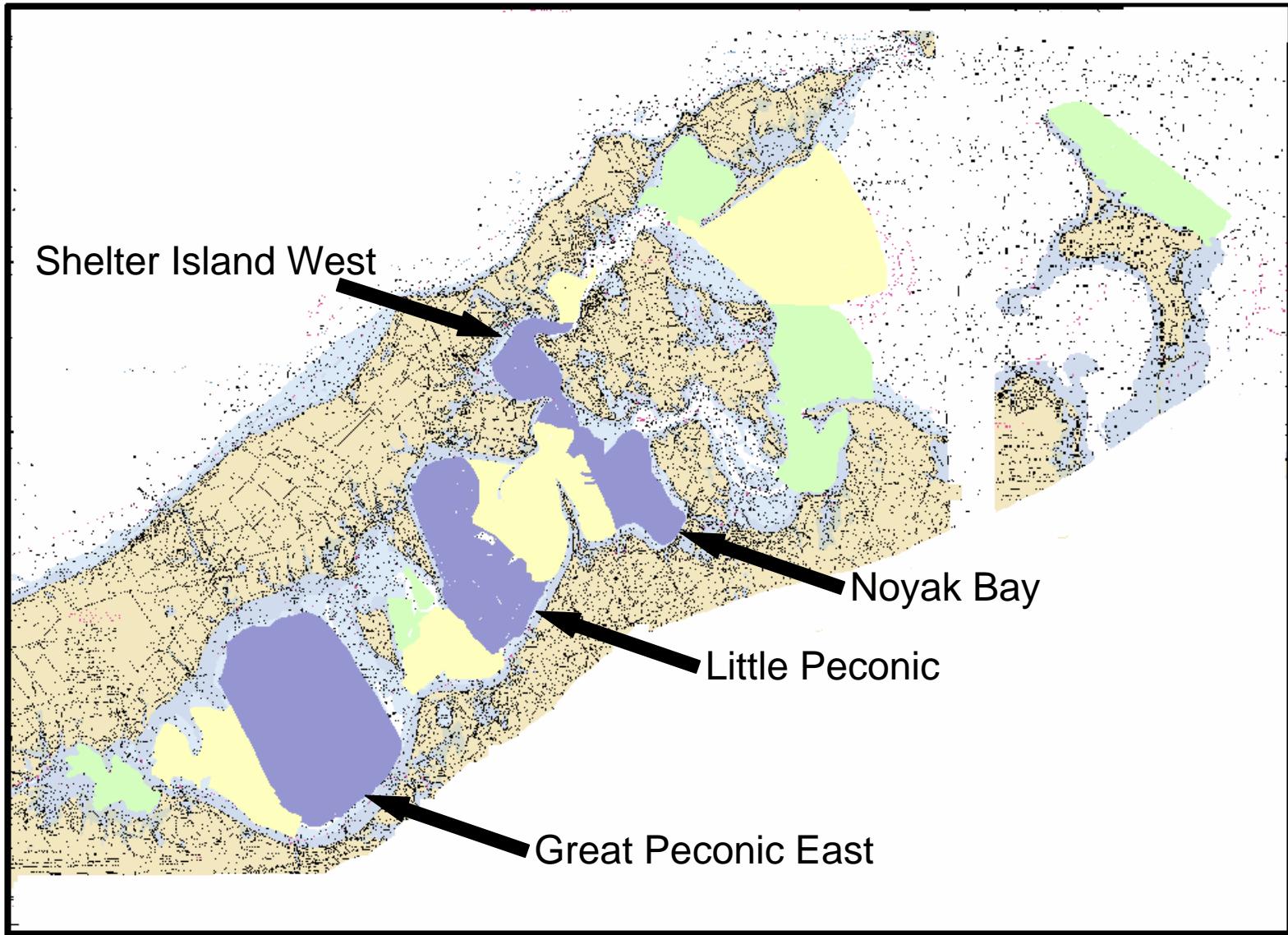


Figure 1. Map of the Peconic Estuary showing the approximate locations of the Phase III study areas (blue). Phase I (green) and Phase II study areas (yellow) are also shown.

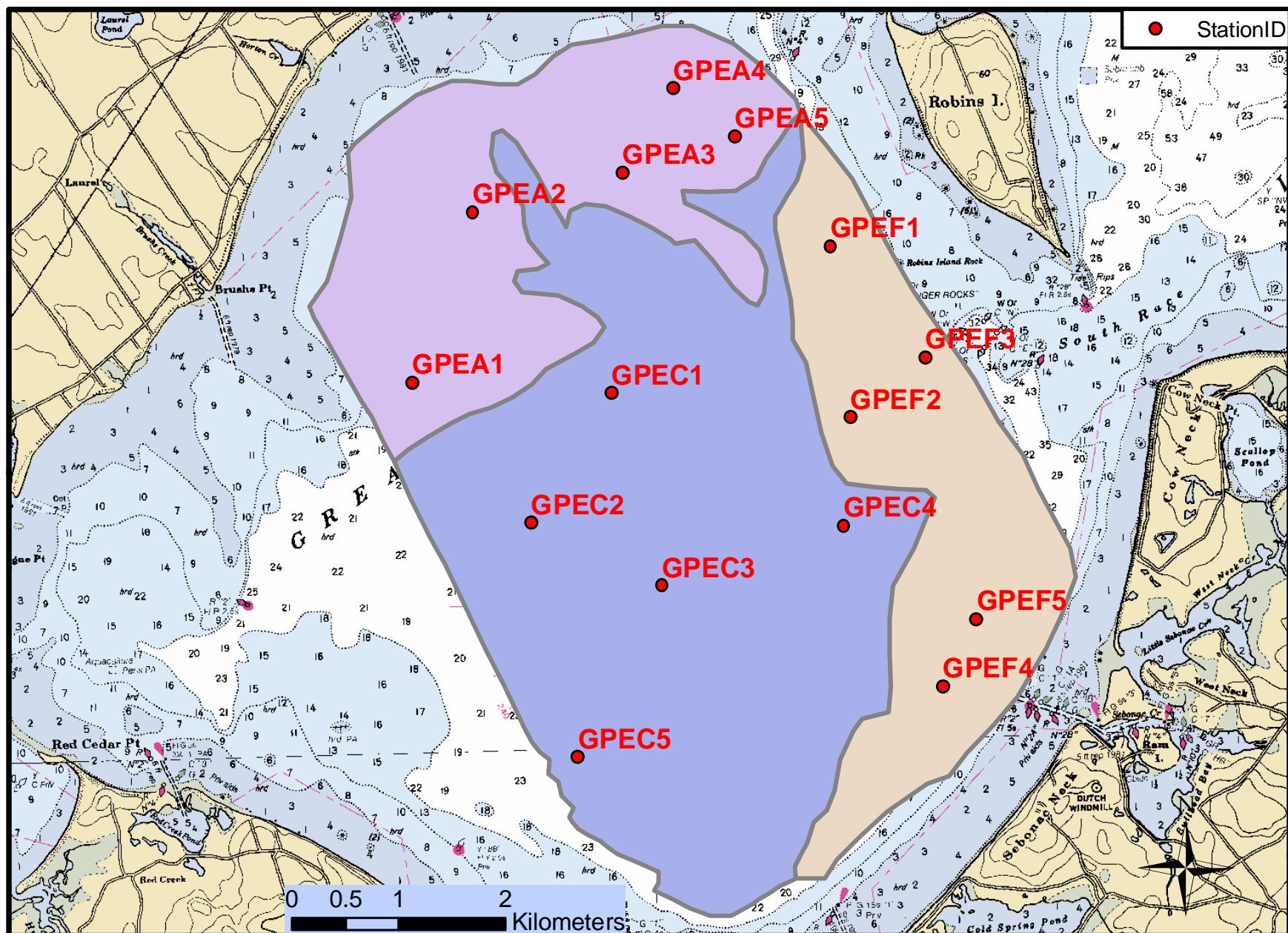


Figure 2. Great Peconic East initial acoustic provinces and sampling station locations.

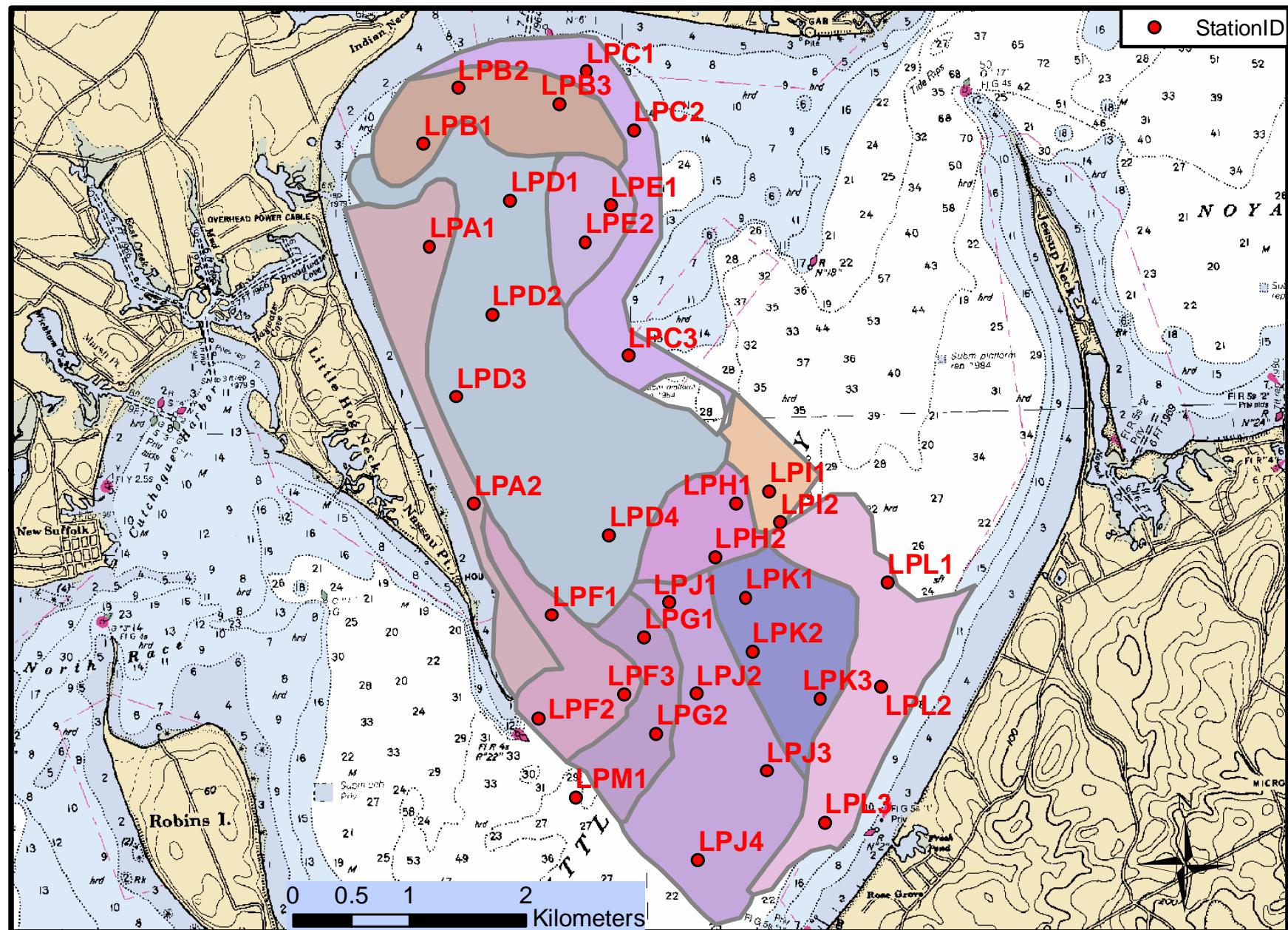


Figure 3. Little Peconic initial acoustic provinces and sampling station locations.

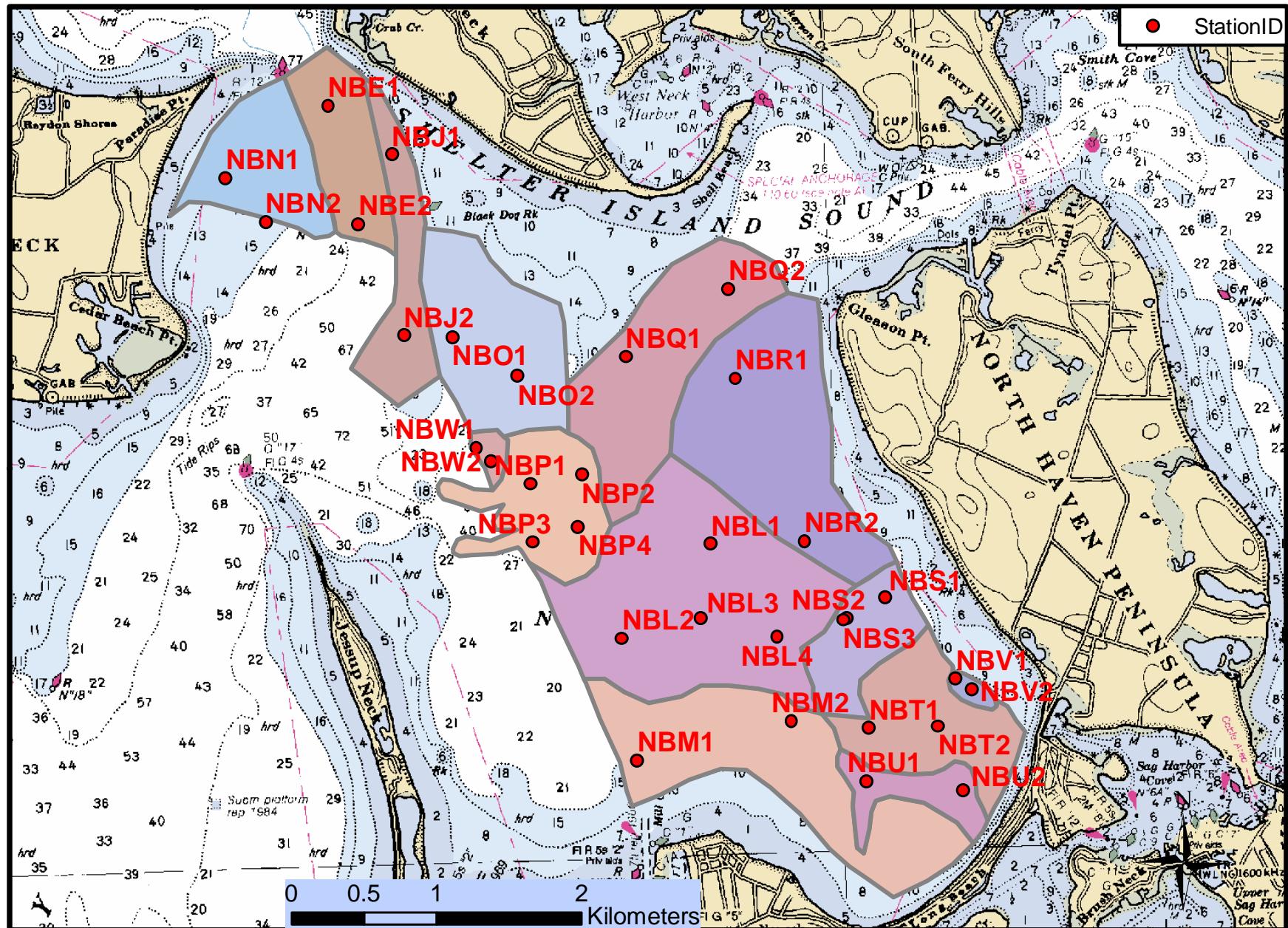


Figure 4. Noyak Bay initial acoustic provinces and sampling station locations.

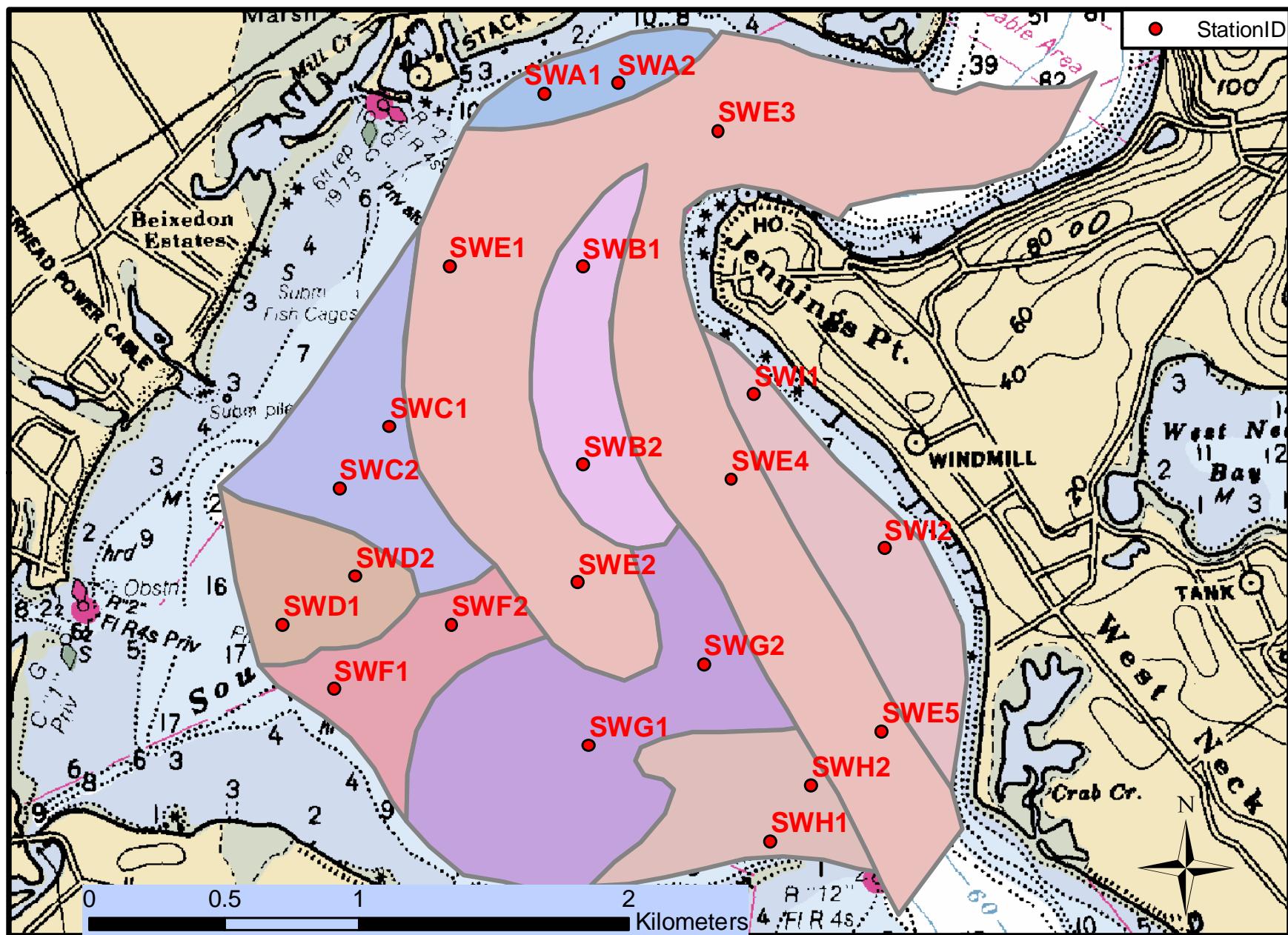
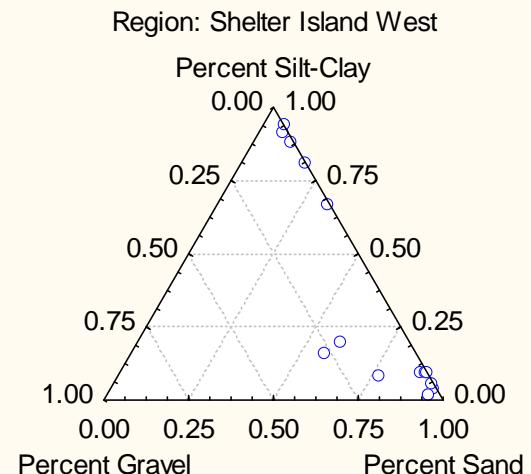
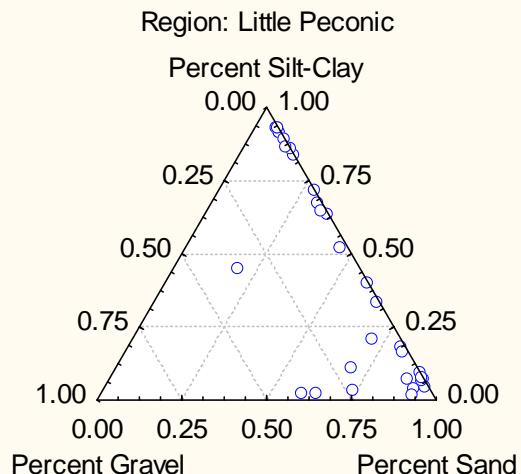
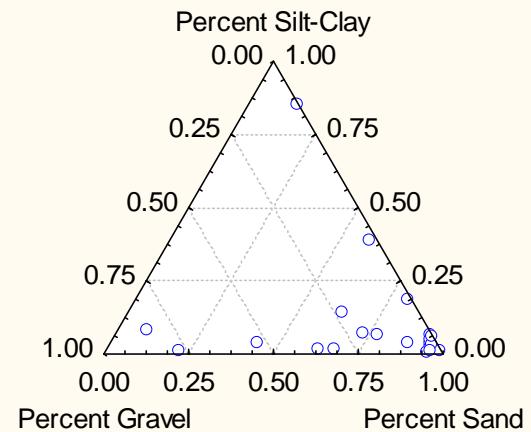
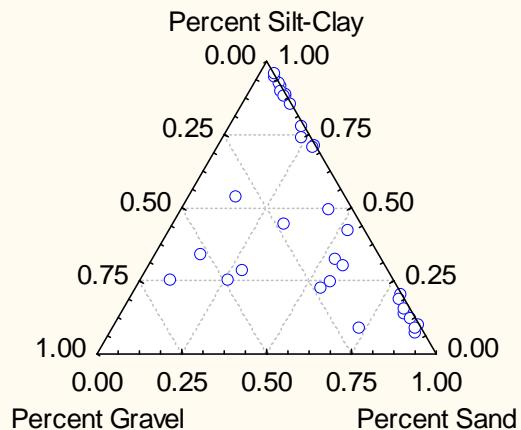


Figure 5. Shelter Island West initial acoustic provinces and sampling station locations.

Ternary Graph of Percent Gravel, Sand, and Silt-Clay categorized by Region
BioPhysData.sta



Region: Noyak Bay

Region: Great Peconic East

Figure 6. Ternary plots of sediment data for all Phase III regions.

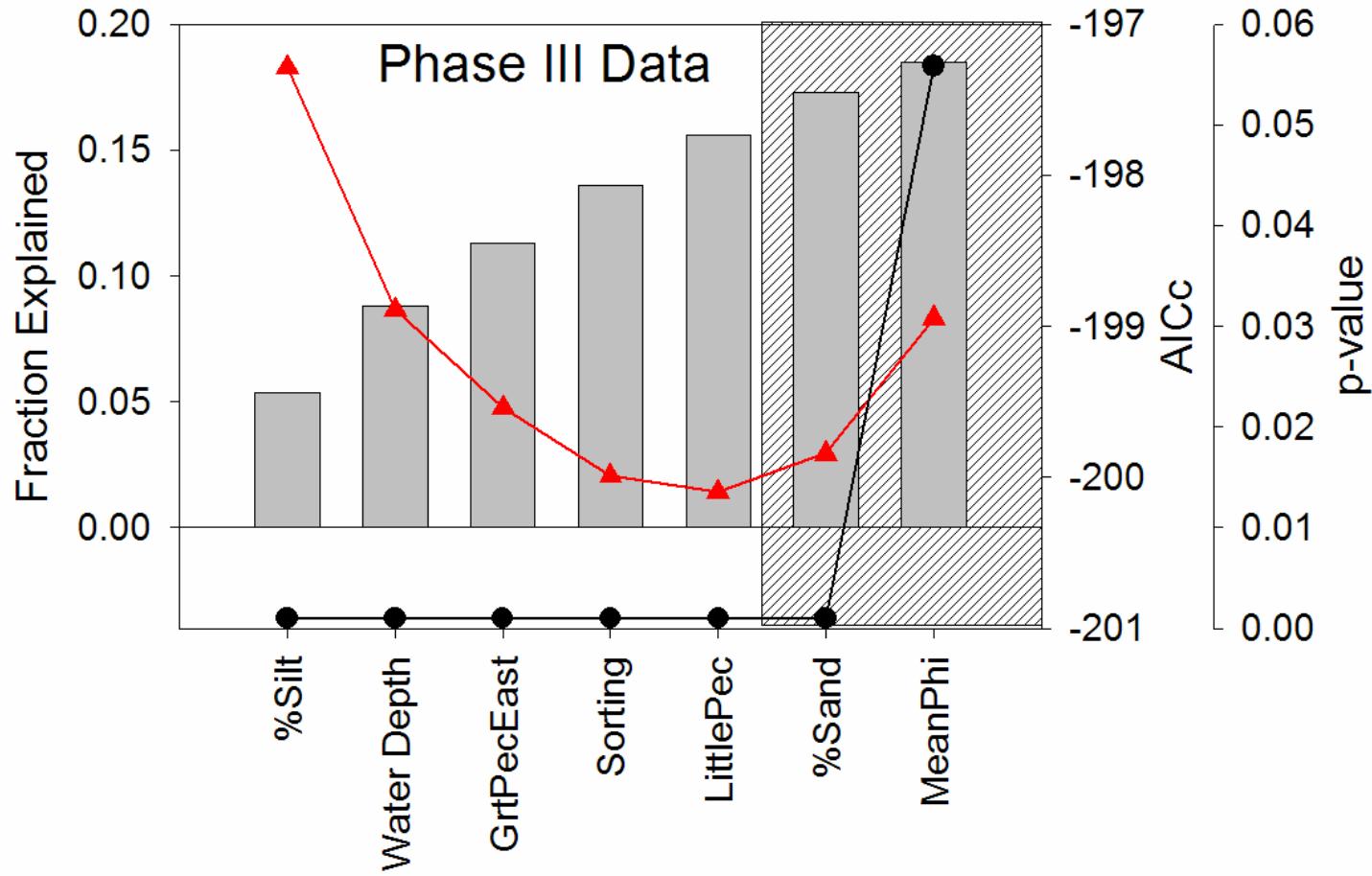


Figure 7. Cumulative fraction of explained variance, AICc values, and significance level results from forward selection redundancy analysis (RDA) using the Phase III data set. Histogram is the cumulative fraction of faunal variance explained by adding environmental variables sequentially during the forward selection process. Triangles are AICc values and circles are p-values from permutation tests carried out on each environmental variable. Environmental variables in the hatched area were removed from final results because they were added after the minimum AICc value was reached.

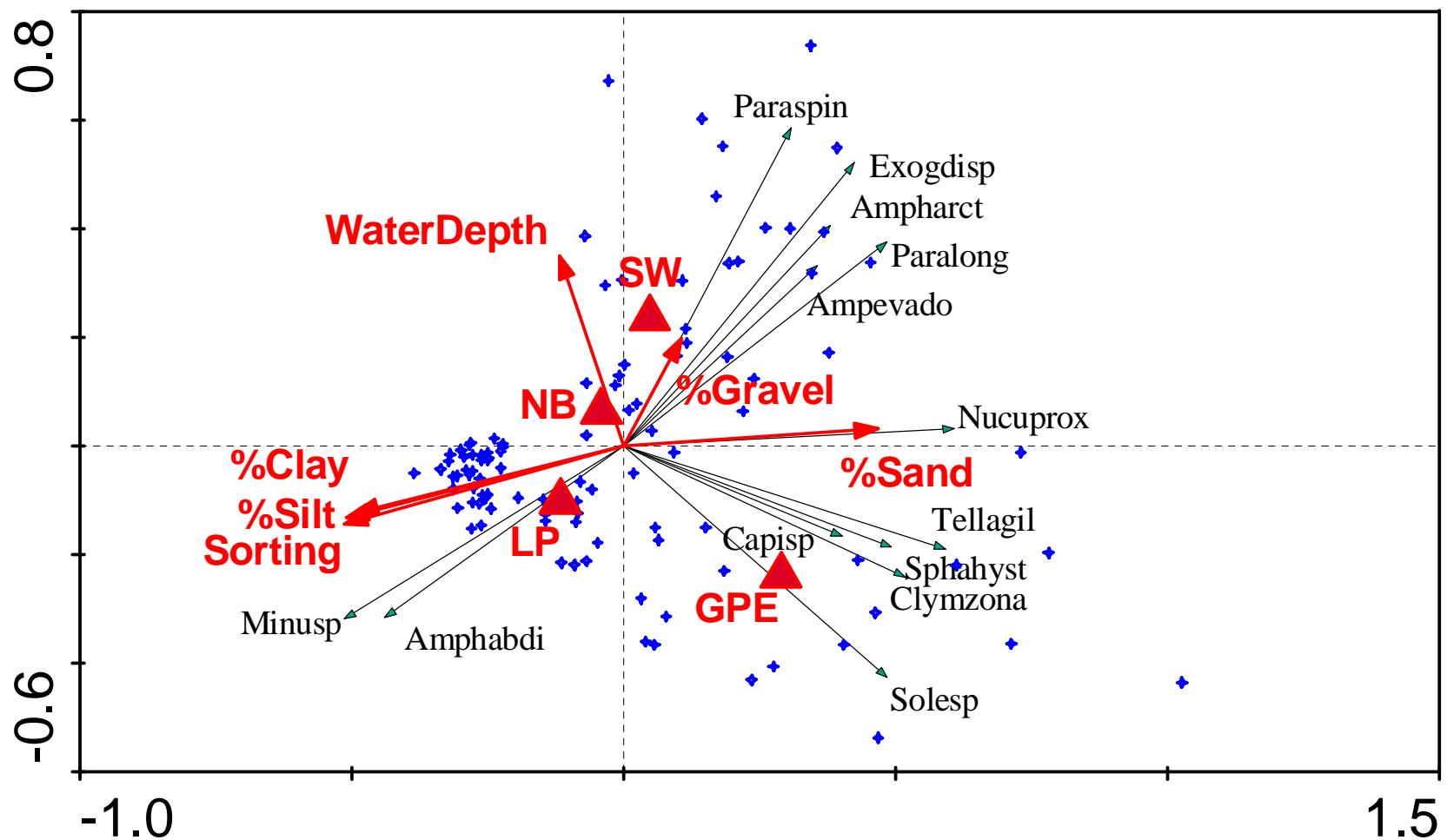


Figure 8. Redundancy analysis (RDA) ordination triplot for the Phase II data set, displaying station, species, and environmental relationships. Arrows represent the direction of maximum change in the species abundance (black) or the environmental variable (red). Red triangles are centroids of nominal environmental variables, and blue crosses are sampling stations. The 13 species listed have greater than 30% of their variance displayed in the first two ordination axes.

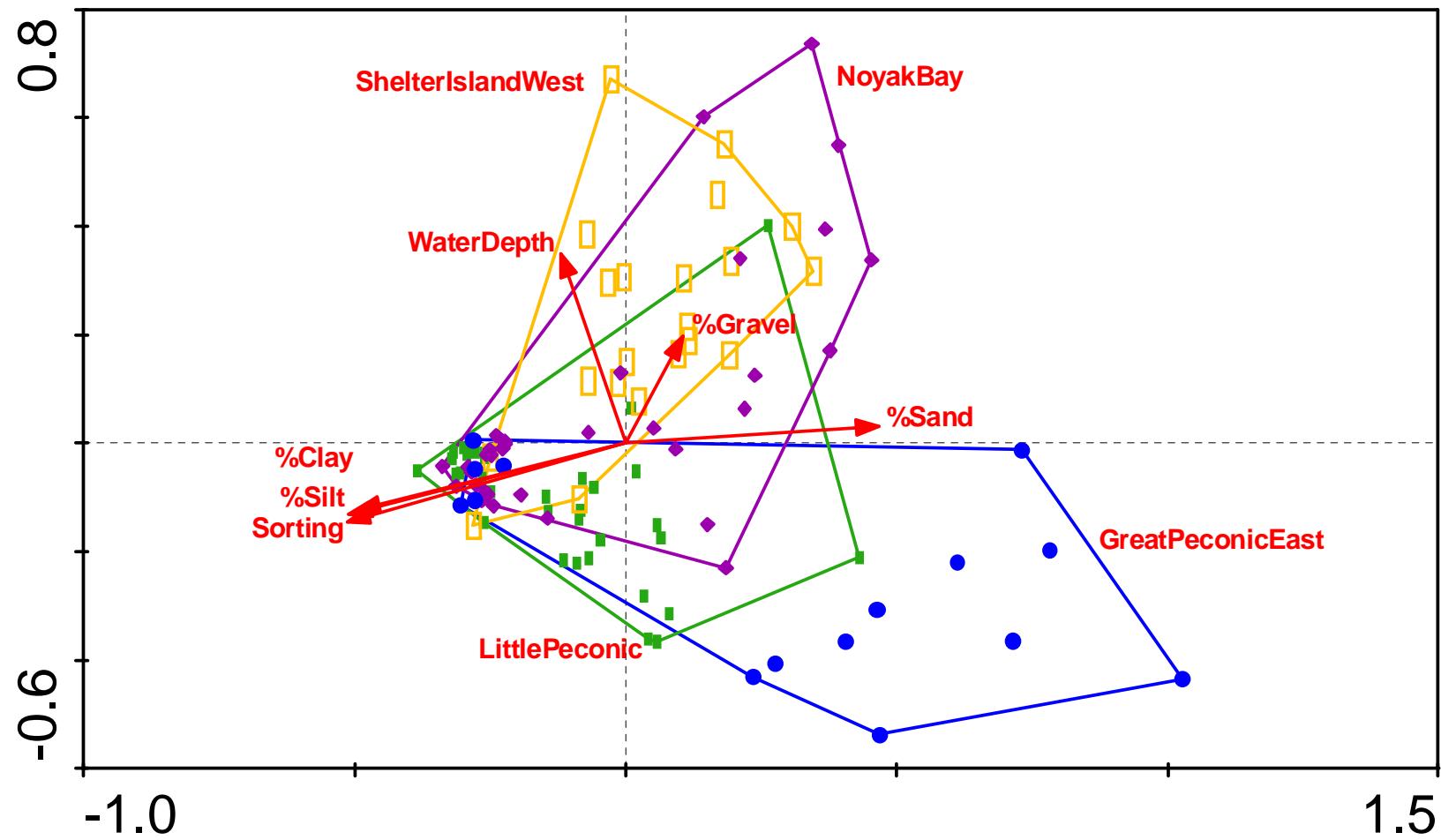


Figure 9. Redundancy analysis (RDA) ordination plot for the Phase III data set, emphasizing the region environmental variables. Envelopes enclose stations belonging to each region.

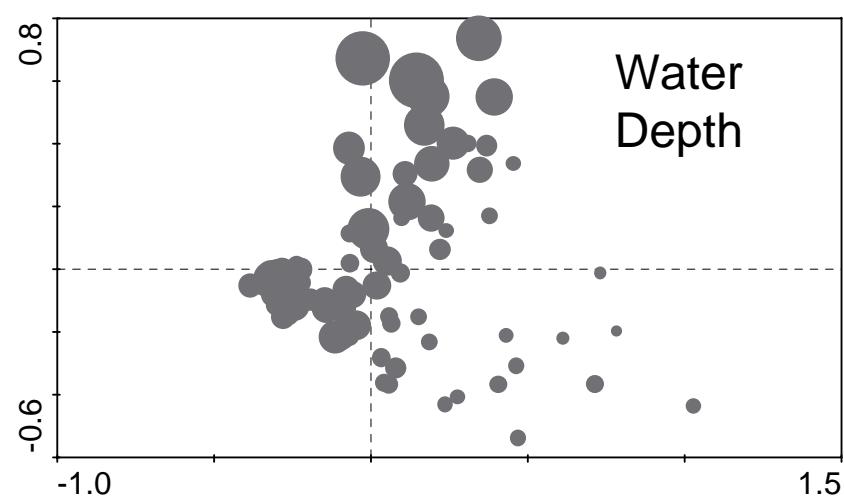
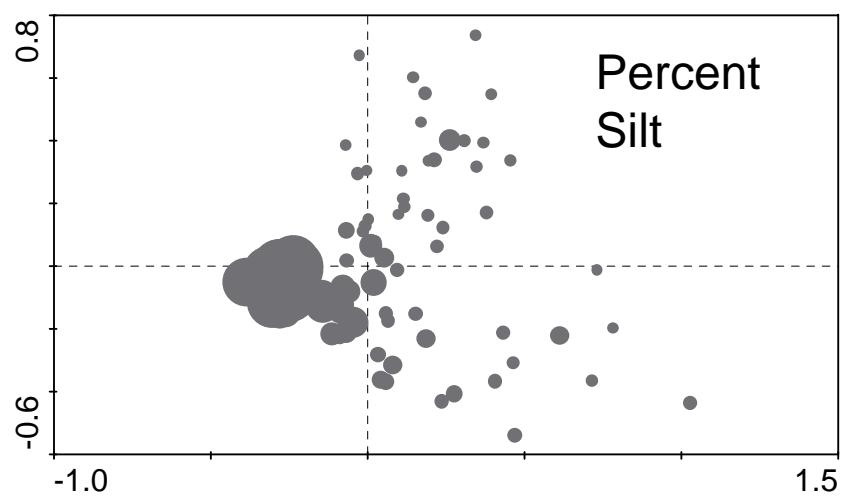
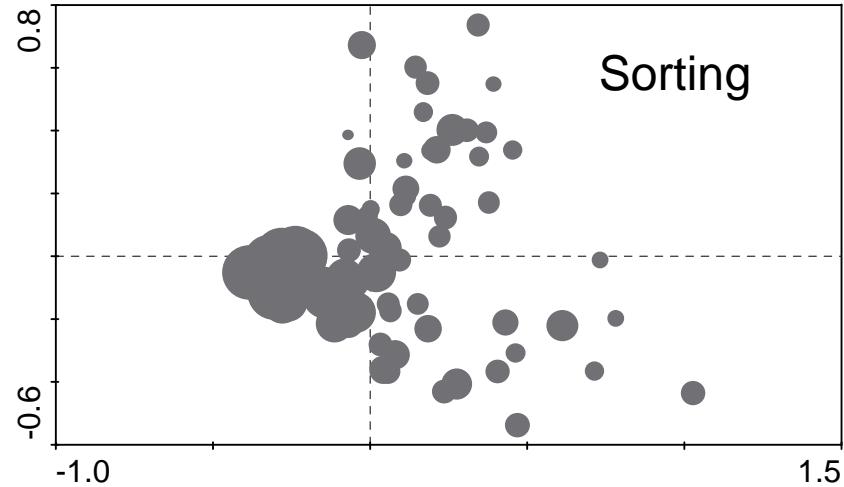
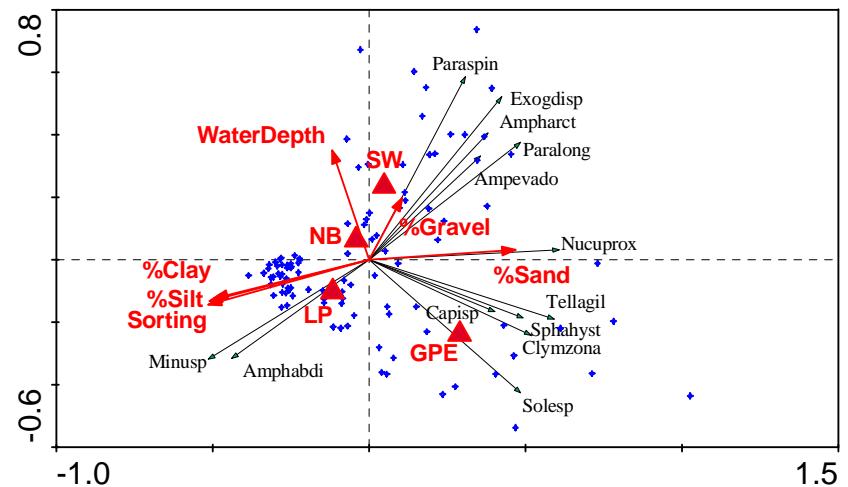


Figure 10. Redundancy analysis (RDA) ordination plots for the Phase III data set, emphasizing several quantitative environmental variables. Symbol diameters are proportional to the magnitude of the variable

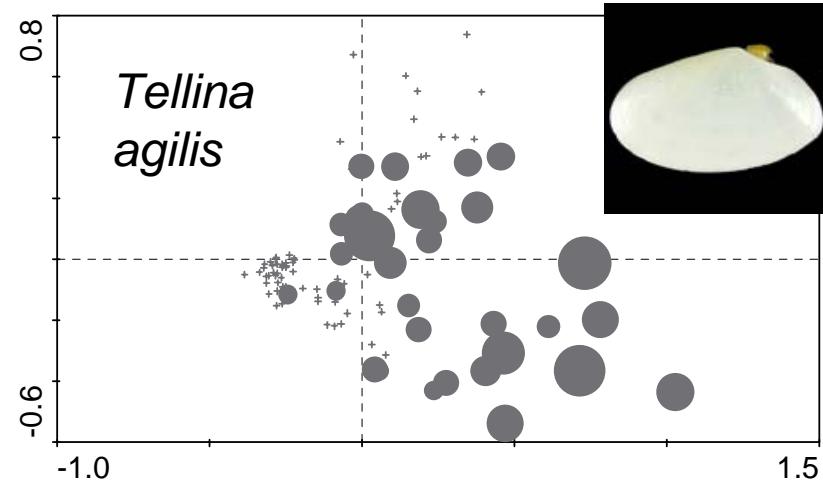
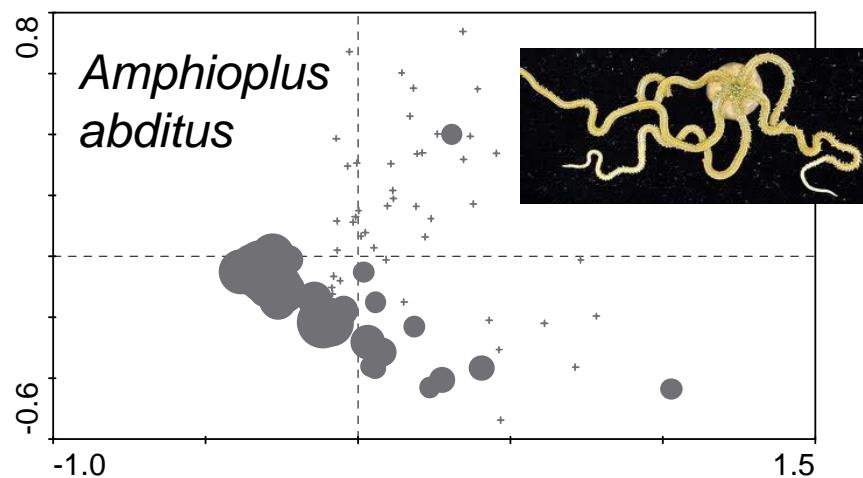
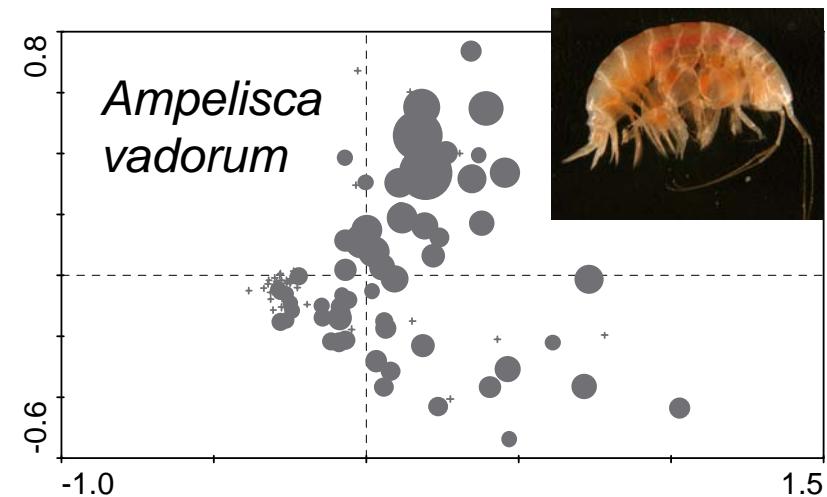
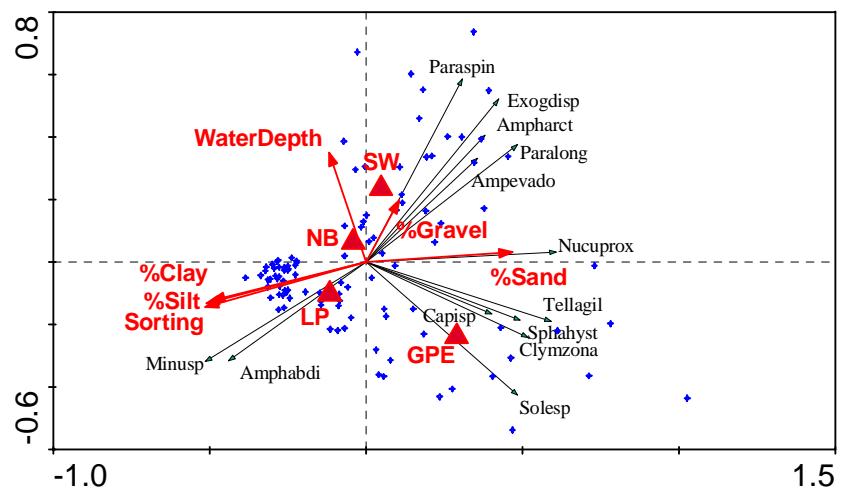
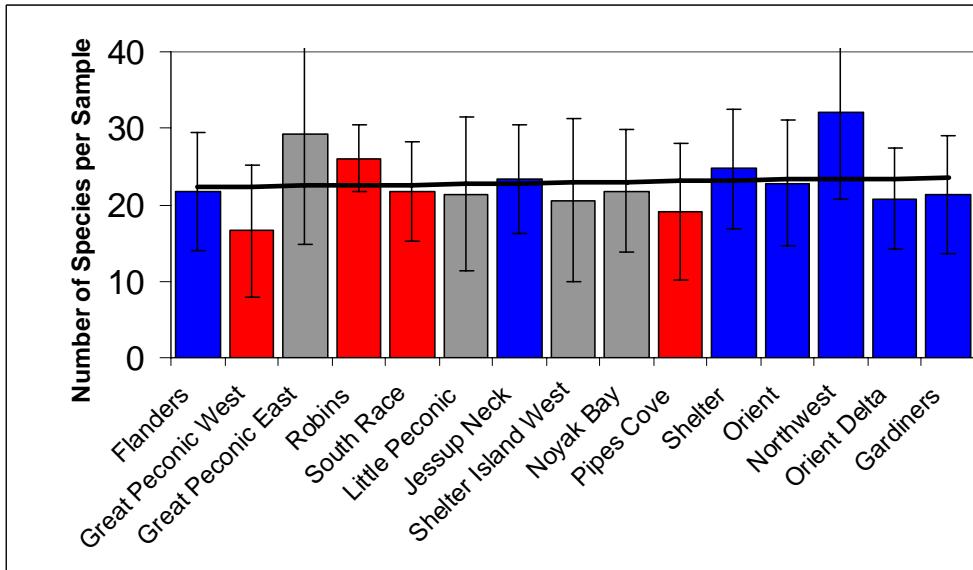


Figure 11. Redundancy analysis (RDA) ordination plots for the Phase III data set, emphasizing abundances of several species. Symbol diameters are proportional to relative abundance. Photos are from the North Atlantic Register for Marine Species, eol.org, and conchology.be.

Peconics:



Long Island Sound:
Sound:

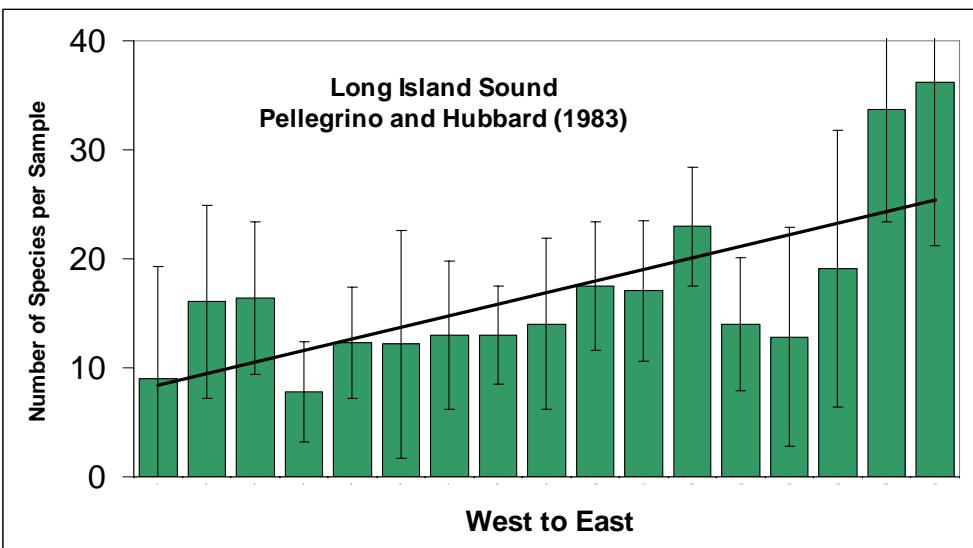


Figure 12. West to east trends in species richness per sample in the Peconics Estuary System compared to Long island Sound. The Peconics plot combines Phase I data in blue (Cerrato and Maher 2007), Phase II data in red (Cerrato et al 2009), and Phase III data in grey (present study). Long Island Sound data from Pellegrino and Hubbard (1983)

Appendix 1 - Field Data

SampleID	Region	Province	Station	Replicate	Date	Phase	Temperat ure (°C)	Salinity	Water Depth (m)	Latitude (Degrees)	Latitude (Minutes)	Longitude (Degrees)	Longitude (Minutes)	RPD (cm)	Grab Depth (cm)	Penetrom eter (cm)	Sediment (from field notes)
PEC201	LP	LPJ	LPJ4	LPJ4	12/12/2007	III	3.80	28.10	8.60	40	57.95	-72	-24.68	2.00	10.00		mud
PEC202	LP	LPL	LPL3	LPL3	12/12/2007	III	3.90	28.30	6.50	40	58.11	-72	-23.89	1.00	6.00		sandy mud
PEC203	LP	LPJ	LPJ3	LPJ3	12/12/2007	III	3.80	28.40	9.30	40	58.36	-72	-24.24	2.00	10.00		mud
PEC204	LP	LPK	LPK3	LPK3	12/12/2007	III	3.80	28.40	10.30	40	58.69	-72	-23.90	4.00	10.00		mud
PEC205	LP	LPL	LPL2	LPL2	12/12/2007	III	3.80	28.50	8.10	40	58.73	-72	-23.52	2.00	7.00		muddy sand
PEC206	LP	LPL	LPL1	LPL1	12/12/2007	III	4.10	28.60	8.40	40	59.22	-72	-23.46	3.00	5.00		muddy sand, some shell
PEC207	LP	LPI	LPI1	LPI1	12/12/2007	III	4.20	28.70	10.50	40	59.66	-72	-24.17	2.00	4.00		muddy sand, some shell
PEC208	LP	LPI	LPI2	LPI2	12/12/2007	III	4.20	28.60	10.50	40	59.51	-72	-24.11	2.00	4.00		muddy sand, some shell
PEC209	LP	LPH	LPH1	LPH1	12/12/2007	III	4.10	28.70	11.90	40	59.61	-72	-24.38	1.00	10.00		mud
PEC210	LP	LPH	LPH2	LPH2	12/12/2007	III	4.30	28.80	9.50	40	59.36	-72	-24.52	2.00	4.00		mud, sand, shell
PEC211	LP	LPK	LPK1	LPK1	12/12/2007	III	4.30	28.80	10.90	40	59.17	-72	-24.34	4.00	10.00		mud
PEC212	LP	LPK	LPK2	LPK2	12/12/2007	III	4.20	28.80	10.60	40	58.91	-72	-24.30	1.00	4.00		mud, shell
PEC213	LP	LPJ	LPJ2	LPJ2	12/12/2007	III	4.00	28.70	11.10	40	58.73	-72	-24.66	2.00	10.00		mud
PEC214	LP	LPJ	LPJ1	LPJ1	12/12/2007	III	4.40	28.80	13.30	40	59.15	-72	-24.81	3.00	10.00		mud, shell
PEC215	LP	LPG	LPG1	LPG1	12/12/2007	III	4.30	28.80	12.80	40	59.00	-72	-24.97	1.00	4.00		mud, shell
PEC216	LP	LPF	LPF3	LPF3	12/12/2007	III	4.30	28.90	11.40	40	58.73	-72	-25.10	2.00	3.00		mud, sand, shell
PEC217	LP	LPG	LPG2	LPG2	12/12/2007	III	4.10	28.70	10.70	40	58.55	-72	-24.91	2.00	4.00		mud, shell
PEC218	LP	LPM	LPM1	LPM1	12/12/2007	III	4.00	28.70	10.20	40	58.26	-72	-25.42	2.00	4.00		mud, shell
PEC219	LP	LPF	LPF2	LPF2	12/12/2007	III	4.20	28.70	12.80	40	58.63	-72	-25.63	3.00	6.00		mud, sand, shell
PEC220	LP	LPF	LPF1	LPF1	12/12/2007	III	4.10	28.80	8.00	40	59.11	-72	-25.53	1.00	5.00		mud, sand, shell
PEC221	LP	LPD	LPD4	LPD4	12/12/2007	III	4.20	28.80	8.30	40	59.48	-72	-25.16	7.00	10.00		mud
PEC222	LP	LPC	LPC3	LPC3	12/12/2007	III	4.10	28.80	7.30	41	0.31	-72	-25.01	1.00	7.00		muddy sand
PEC223	LP	LPE	LPE2	LPE2	12/12/2007	III	4.40	28.90	8.50	41	0.84	-72	-25.26	3.00	10.00		mud
PEC224	LP	LPE	LPE1	LPE1	12/12/2007	III	4.50	28.90	10.10	41	1.01	-72	-25.09	4.00	10.00		mud
PEC225	LP	LPC	LPC2	LPC2	12/12/2007	III	4.70	28.90	6.00	41	1.35	-72	-24.94	3.00	5.00		muddy sand
PEC226	LP	LPC	LPC1	LPC1	12/12/2007	III	4.40	28.90	4.30	41	1.63	-72	-25.22	2.00	4.00		mud, sand, shell
PEC227	LP	LPB	LPB3	LPB3	12/12/2007	III	4.30	28.80	6.30	41	1.49	-72	-25.39	3.00	5.00		muddy sand
PEC228	LP	LPB	LPB2	LPB2	12/12/2007	III	4.30	28.90	5.80	41	1.57	-72	-26.01	1.00	8.00		muddy sand
PEC229	LP	LPB	LPB1	LPB1	12/12/2007	III	4.30	28.90	6.70	41	1.32	-72	-26.23	2.00	10.00		muddy sand
PEC230	LP	LPD	LPD1	LPD1	12/12/2007	III	4.10	28.90	7.40	41	1.05	-72	-25.71	1.00	10.00		mud
PEC231	LP	LPA	LPA1	LPA1	12/12/2007	III	4.30	28.90	5.90	41	0.84	-72	-26.22	2.00	6.00		muddy sand
PEC232	LP	LPD	LPD2	LPD2	12/12/2007	III	4.10	28.80	7.30	41	0.52	-72	-25.84	3.00	10.00		mud
PEC233	LP	LPD	LPD3	LPD3	12/12/2007	III	4.10	28.80	7.10	41	0.14	-72	-26.08	3.00	10.00		mud
PEC234	LP	LPA	LPA2	LPA2	12/12/2007	III	4.10	28.90	5.80	40	59.64	-72	-25.99	1.00	7.00		muddy sand
PEC235	SW	SWE	SWE3	SWE3	5/28/2008	III			22.70	41	4.47	-72	-23.02	0.00	5.00		sponge
PEC236	SW	SWA	SWA2	SWA2	5/28/2008	III			10.00	41	4.57	-72	-23.28	10.00	6.00		medium sand
PEC237	SW	SWA	SWA1	SWA1	5/28/2008	III			5.00	41	4.56	-72	-23.48	3.00	6.00		muddy sand
PEC238	SW	SWB	SWB1	SWB1	5/28/2008	III			12.50	41	4.21	-72	-23.39	0.00	9.00		sand
PEC239	SW	SWE	SWE1	SWE1	5/28/2008	III			4.90	41	4.22	-72	-23.74	0.00	5.00		sand, some shell and gravel
PEC240	SW	SWI	SWI1	SWI1	5/28/2008	III			5.40	41	3.94	-72	-22.95	0.00	4.00		mud, sand, shell
PEC241	SW	SWE	SWE4	SWE4	5/28/2008	III			16.40	41	3.78	-72	-23.01	4.00	7.00		sand, shell, gravel
PEC242	SW	SWB	SWB2	SWB2	5/28/2008	III			6.60	41	3.81	-72	-23.40	0.00	9.00		sand, some shell
PEC243	SW	SWC	SWC1	SWC1	5/28/2008	III			4.00	41	3.90	-72	-23.91	0.00	6.00		sand with shell, little mud
PEC244	SW	SWC	SWC2	SWC2	5/28/2008	III			5.80	41	3.78	-72	-24.05	0.50	5.00		sandy mud, shell
PEC245	SW	SWD	SWD2	SWD2	5/28/2008	III			8.70	41	3.60	-72	-24.01	1.00	9.00		sandy mud, some shell
PEC246	SW	SWD	SWD1	SWD1	5/28/2008	III			5.00	41	3.51	-72	-24.21	0.50	10.00		mud
PEC247	SW	SWF	SWF1	SWF1	5/28/2008	III			4.70	41	3.38	-72	-24.08	1.00	9.00		sandy mud
PEC248	SW	SWF	SWF2	SWF2	5/28/2008	III			9.50	41	3.50	-72	-23.76	4.00	7.00		muddy sand
PEC249	SW	SWE	SWE2	SWE2	5/28/2008	III			13.80	41	3.58	-72	-23.43	5.00	6.00		sand, gravel, some shell
PEC250	SW	SWG	SWG1	SWG1	5/28/2008	III			10.20	41	3.25	-72	-23.41	0.00	7.00		muddy sand
PEC251	SW	SWG	SWG2	SWG2	5/28/2008	III			9.20	41	3.41	-72	-23.10	0.00	7.00		sand, some shell and gravel
PEC252	SW	SWI	SWI2	SWI2	5/28/2008	III			10.00	41	3.63	-72	-22.61	2.00	7.00		muddy sand

SampleID	Region	Province	Station	Replicate	Date	Phase	Temperature (°C)	Salinity	Water Depth (m)	Latitude (Degrees)	Latitude (Minutes)	Longitude (Degrees)	Longitude (Minutes)	RPD (cm)	Grab Depth (cm)	Penetrometer (cm)	Sediment (from field notes)		
PEC253	SW	SWE	SWE5	SWE5	5/28/2008	III			16.10	41	3.26	-72	-22.64	0.00	4.00			slipper shell hash	
PEC254	SW	SWH	SWH2	SWH2	5/28/2008	III			17.30	41	3.16	-72	-22.83	4.00	5.00			sand, gravel, mud, shell	
PEC255	SW	SWH	SWH1	SWH1	5/28/2008	III			15.00	41	3.05	-72	-22.94	3.00	5.00			sand, gravel, mud, shell	
PEC256	NB	NBE	NBE1	NBE1	5/28/2008	III			23.20	41	2.84	-72	-22.44	0.00	7.00			sand, gravel, mud, shell	
PEC257	NB	NBJ	NBJ1	NBJ1	5/28/2008	III			16.90	41	2.65	-72	-22.13	0.00	6.00			muddy sand	
PEC258	NB	NBE	NBE2	NBE2	5/28/2008	III			18.70	41	2.40	-72	-22.30	0.00	6.00			sand, shell, gravel	
PEC259	NB	NBW	NBW2	NBW2	5/28/2008	III			9.90	41	1.50	-72	-21.69	0.50	10.00			mud	
PEC260	NB	NBN	NBN1	NBN1	5/28/2008	III			4.50	41	2.59	-72	-22.95	2.00	5.00			muddy sand, some shell	
PEC261	NB	NBN	NBN2	NBN2	5/28/2008	III			4.50	41	2.42	-72	-22.76	4.00	5.00			muddy sand, some shell	
PEC262	NB	NBJ	NBJ2	NBJ2	5/28/2008	III			6.40	41	1.98	-72	-22.10	0.00	3.00			mud, sand, shell	
PEC263	NB	NBO	NBO1	NBO1	5/28/2008	III			5.00	41	1.97	-72	-21.86	3.00	7.00			muddy sand	
PEC264	NB	NBW	NBW1	NBW1	5/28/2008	III			9.00	41	1.55	-72	-21.76	0.50	11.00			mud	
PEC265	NB	NBO	NBO2	NBO2	5/28/2008	III			7.40	41	1.81	-72	-21.54	3.00	5.00			muddy sand	
PEC266	NB	NBP	NBP1	NBP1	5/28/2008	III			12.00	41	1.41	-72	-21.49	0.50	10.00			mud	
PEC267	NB	NBP	NBP3	NBP3	5/28/2008	III			10.20	41	1.19	-72	-21.49	0.50	11.00			mud	
PEC268	NB	NBP	NBP4	NBP4	5/28/2008	III			11.60	41	1.24	-72	-21.27	1.00	10.00			mud	
PEC269	NB	NBP	NBP2	NBP2	5/28/2008	III			11.00	41	1.44	-72	-21.24	1.00	6.00			muddy sand, some shell	
PEC270	NB	NBQ	NBQ1	NBQ1	5/28/2008	III			7.40	41	1.87	-72	-21.00	3.00	5.00			mud, sand, shell	
PEC271	NB	NBQ	NBQ2	NBQ2	5/28/2008	III			14.90	41	2.11	-72	-20.49	10.00	8.00			sand, shell	
PEC272	NB	NBR	NBR1	NBR1	5/28/2008	III			6.20	41	1.78	-72	-20.47	4.00	8.00			muddy sand, some shell	
PEC273	NB	NBR	NBR2	NBR2	5/28/2008	III			6.10	41	1.16	-72	-20.15	2.00	8.00			muddy sand	
PEC274	NB	NBL	NBL1	NBL1	5/29/2008	III	16.10	29.00	7.00	41	1.16	-72	-20.61	1.00	12.00			mud	
PEC275	NB	NBL	NBL2	NBL2	5/29/2008	III	16.00	29.00	6.30	41	0.82	-72	-21.07	1.00	12.00			mud	
PEC276	NB	NBL	NBL3	NBL3	5/29/2008	III	16.00	29.10	6.40	41	0.89	-72	-20.67	1.00	10.00			mud	
PEC277	NB	NBS	NBS2	NBS2	5/29/2008	III	16.20	29.10	6.00	41	0.87	-72	-19.95	1.00	10.00			mud	
PEC278	NB	NBS	NBS3	NBS3	5/29/2008	III	16.60	29.10	7.70	41	0.86	-72	-19.97	1.00	8.00			mud, some shell	
PEC279	NB	NBS	NBS1	NBS1	5/29/2008	III	16.60	29.30	8.10	41	0.94	-72	-19.76	1.00	12.00			mud	
PEC280	NB	NBV	NBV1	NBV1	5/29/2008	III	16.60	29.30	7.60	41	0.63	-72	-19.43	1.00	10.00			mud	
PEC281	NB	NBV	NBV2	NBV2	5/29/2008	III	16.50	29.30	7.50	41	0.59	-72	-19.35	1.00	10.00			mud	
PEC282	NB	NBT	NBT1	NBT1	5/29/2008	III	16.20	29.30	7.20	41	0.46	-72	-19.86	1.00	10.00			mud, some fine sand	
PEC283	NB	NBT	NBT2	NBT2	5/29/2008	III	16.70	29.20	6.60	41	0.46	-72	-19.52	3.00	8.00			sandy mud	
PEC284	NB	NBU	NBU2	NBU2	5/29/2008	III	16.60	29.30	7.40	41	0.21	-72	-19.40	0.50	12.00			mud	
PEC285	NB	NBU	NBU1	NBU1	5/29/2008	III	16.40	29.30	6.90	41	0.26	-72	-19.88	1.00	10.00			mud, some sand	
PEC286	NB	NBM	NBM2	NBM2	5/29/2008	III	16.60	29.30	4.90	41	0.49	-72	-20.24	2.00	8.00			sandy mud	
PEC287	NB	NBM	NBM1	NBM1	5/29/2008	III	16.40	29.30	5.10	41	0.36	-72	-21.01	2.00	7.00			sandy mud	
PEC288	NB	NBL	NBL4	NBL4	5/29/2008	III	16.40	29.40	6.30	41	0.81	-72	-20.30	1.00	10.00			mud	
PEC289	GPE	GPEF	GPEF3	GPEF3	5/29/2008	III	16.50	29.00	3.20	40	56.92	-72	-28.10	3.00	7.00			sand, some mud and shell	
PEC290	GPE	GPEF	GPEF2	GPEF2	5/29/2008	III	16.50	29.10	5.70	40	56.63	-72	-28.62	1.00	6.00			muddy sand, some shell	
PEC291	GPE	GPEF	GPEF1	GPEF1	5/29/2008	III	16.60	29.10	4.50	40	57.50	-72	-28.72	1.00	7.00			mud, sand, shell	
PEC292	GPE	GPEC	GPEC4	GPEC4	5/29/2008	III	16.40	29.00	7.30	40	56.08	-72	-28.68	1.00	10.00			mud	
PEC293	GPE	GPEF	GPEF5	GPEF5	5/29/2008	III	16.70	29.00	5.80	40	55.59	-72	-27.81	3.00	7.00			muddy sand, some shell	
PEC294	GPE	GPEF	GPEF4	GPEF4	5/29/2008	III	16.40	29.10	5.00	40	55.26	-72	-28.05	3.00	7.00			muddy sand, shell	
PEC295	GPE	GPEA	GPEA5	GPEA5	5/29/2008	III	16.60	28.90	3.30	40	58.07	-72	-29.33	1.00	6.00			mud, sand, shell	
PEC296	GPE	GPEA	GPEA4	GPEA4	5/29/2008	III	16.40	28.90	2.50	40	58.32	-72	-29.73	3.00	7.00			sand, some shell	
PEC297	GPE	GPEA	GPEA3	GPEA3	5/29/2008	III	16.70	29.10	5.00	40	57.90	-72	-30.09	2.00	7.00			muddy sand	
PEC298	GPE	GPEA	GPEA2	GPEA2	5/29/2008	III	16.40	29.00	4.80	40	57.72	-72	-31.10	2.00	6.00			muddy sand	
PEC299	GPE	GPEA	GPEA1	GPEA1	5/29/2008	III	16.70	29.00	4.30	40	56.87	-72	-31.53	2.00	5.00			mud, sand, shell	
PEC300	GPE	GPEC	GPEC1	GPEC1	5/29/2008	III	17.00	29.00	6.00	40	56.79	-72	-30.20	0.50	10.00			mud	
PEC301	GPE	GPEC	GPEC2	GPEC2	5/29/2008	III	16.60	29.10	6.00	40	56.14	-72	-30.76	0.50	10.00			mud	
PEC302	GPE	GPEC	GPEC3	GPEC3	5/29/2008	III	16.80	29.10	6.40	40	55.81	-72	-29.91	1.00	12.00			mud	
PEC303	GPE	GPEC	GPEC5	GPEC5	5/29/2008	III	16.60	29.10	6.50	40	54.95	-72	-30.50	1.00	10.00			mud	

Appendix 2 - Grain-size Summary

SampleID	Percent Gravel	Percent Sand	Percent Silt	Percent Clay	Percent Silt-Clay	Mean (phi)	Sorting	Percent LOI
PEC201	0.000	8.896	40.978	50.126	91.104	8.439	8.645	5.830
PEC202	0.109	79.531	10.168	10.192	20.360	3.442	4.189	1.059
PEC203	0.298	11.425	43.107	45.170	88.277	7.929	8.134	5.088
PEC204	0.388	28.698	34.458	36.457	70.914	6.946	7.584	4.180
PEC205	2.461	84.043	7.536	5.960	13.496	2.545	3.387	0.731
PEC206	13.507	54.207	16.814	15.471	32.285	3.593	5.227	2.545
PEC207	48.485	26.289	13.355	11.871	25.225	0.988	5.194	3.122
PEC208	42.881	28.666	15.009	13.445	28.453	1.586	5.413	2.499
PEC209	1.109	28.488	35.865	34.538	70.402	6.831	7.391	4.366
PEC210	6.785	43.922	26.318	22.976	49.294	4.909	6.128	2.955
PEC211	0.000	11.496	42.225	46.279	88.504	8.194	8.437	5.156
PEC212	32.083	14.444	25.793	27.680	53.473	3.945	6.936	4.938
PEC213	0.040	7.384	41.774	50.802	92.576	8.625	8.806	5.869
PEC214	2.559	23.523	37.153	36.766	73.918	7.000	7.643	4.265
PEC215	65.618	9.446	13.181	11.755	24.936	-0.080	5.482	4.437
PEC216	22.565	33.080	21.796	22.559	44.355	3.780	6.129	2.990
PEC217	52.133	13.921	16.818	17.127	33.946	1.360	5.839	2.964
PEC218	18.861	56.454	12.039	12.647	24.685	2.797	4.867	2.232
PEC219	22.637	54.933	11.592	10.837	22.429	2.118	4.432	2.199
PEC220	12.205	57.934	15.382	14.479	29.861	2.941	4.810	2.005
PEC221	0.596	9.479	45.426	44.498	89.925	7.976	8.241	5.379
PEC222	1.384	79.907	8.902	9.807	18.709	2.567	3.936	1.252
PEC223	0.000	14.632	39.978	45.390	85.368	7.957	8.354	5.708
PEC224	0.665	21.799	37.056	40.480	77.536	7.429	7.978	5.013
PEC225	2.623	90.030	3.715	3.631	7.346	1.963	2.692	0.780
PEC226	18.347	72.752	3.749	5.151	8.901	1.123	3.392	1.385
PEC227	0.328	89.900	5.139	4.633	9.772	2.363	2.906	0.817
PEC228	1.997	82.750	7.557	7.696	15.253	2.918	3.728	1.017
PEC229	4.851	52.982	21.004	21.164	42.168	4.561	5.753	3.033
PEC230	0.840	10.876	45.972	42.312	88.284	7.780	8.133	4.919
PEC231	1.527	86.657	6.432	5.383	11.815	2.301	3.130	0.911
PEC232	0.296	5.282	47.756	46.666	94.422	8.318	8.484	5.962
PEC233	0.000	4.542	46.353	49.105	95.458	8.570	8.710	6.257
PEC234	1.951	89.463	3.921	4.665	8.586	1.765	2.767	0.858
PEC235	77.454	21.412	1.134	0.000	1.134	-2.705	3.707	0.572
PEC236	2.401	94.872	1.071	1.656	2.727	1.409	1.855	0.656
PEC237	0.523	92.663	2.699	4.114	6.813	2.246	2.727	0.780
PEC238	0.084	98.680	1.236	0.000	1.236	0.991	0.532	0.156
PEC239	35.782	62.605	0.561	1.052	1.613	-0.488	2.792	0.640
PEC240	15.876	77.596	2.596	3.933	6.529	0.914	2.912	0.887
PEC241	31.153	67.091	0.653	1.103	1.756	-0.202	2.165	0.409
PEC242	4.341	95.261	0.398	0.000	0.398	0.369	0.636	0.313
PEC243	1.860	94.270	2.024	1.846	3.870	1.260	1.846	0.581
PEC244	22.550	63.326	6.596	7.528	14.124	1.671	4.051	3.355
PEC245	2.435	58.837	19.345	19.384	38.728	4.707	5.680	3.361
PEC246	0.227	14.658	45.125	39.991	85.115	7.343	7.647	5.378
PEC247	1.177	80.483	9.943	8.397	18.340	2.698	3.740	1.267
PEC248	1.488	93.544	2.192	2.776	4.968	1.447	2.218	0.453
PEC249	8.431	87.691	1.646	2.232	3.878	1.119	2.018	0.826
PEC250	1.321	95.191	1.555	1.933	3.488	1.369	1.823	0.373
PEC251	3.197	95.474	0.540	0.788	1.328	1.133	1.385	0.555
PEC252	0.145	93.678	2.494	3.683	6.177	2.156	2.696	1.012

Appendix 2 - Grain-size Summary

SampleID	Percent Gravel	Percent Sand	Percent Silt	Percent Clay	Percent Silt-Clay	Mean (phi)	Sorting	Percent LOI
PEC253	83.231	8.786	2.918	5.064	7.982	-2.035	4.531	2.481
PEC254	20.074	72.842	3.561	3.523	7.084	0.803	2.783	1.597
PEC255	52.679	43.438	1.690	2.193	3.883	-1.222	3.457	0.653
PEC256	34.206	63.481	1.039	1.273	2.312	-0.382	2.697	0.736
PEC257	0.783	94.659	2.116	2.442	4.558	1.973	2.312	1.167
PEC258	38.372	59.164	0.969	1.495	2.464	-0.588	2.775	1.126
PEC259	0.318	28.242	35.387	36.053	71.440	6.903	7.350	5.275
PEC260	4.902	87.851	2.975	4.272	7.247	1.837	2.811	0.966
PEC261	4.685	91.347	1.660	2.308	3.968	1.258	2.033	0.823
PEC262	19.269	69.728	4.820	6.183	11.003	1.346	3.590	1.586
PEC263	0.308	92.702	3.021	3.970	6.990	1.870	2.574	0.564
PEC264	1.143	31.833	32.744	34.279	67.024	6.628	7.229	2.952
PEC265	0.824	92.358	3.295	3.523	6.818	2.179	2.666	1.078
PEC266	0.613	66.036	18.145	15.205	33.351	4.515	5.130	3.004
PEC267	0.099	36.209	32.304	31.388	63.692	6.406	6.950	3.879
PEC268	0.349	59.949	21.157	18.545	39.701	4.920	5.608	2.408
PEC269	8.123	70.834	10.161	10.882	21.043	2.899	4.263	1.782
PEC270	22.599	73.873	1.457	2.071	3.528	0.368	2.513	0.788
PEC271	6.125	92.031	0.768	1.076	1.844	0.885	1.489	0.716
PEC272	0.408	91.912	3.948	3.731	7.680	2.501	2.826	1.070
PEC273	0.365	90.479	4.390	4.765	9.156	1.985	2.833	0.873
PEC274	0.081	16.183	41.044	42.692	83.735	7.603	7.828	5.898
PEC275	0.098	13.979	41.782	44.141	85.923	7.848	8.118	5.153
PEC276	0.286	8.329	42.852	48.534	91.385	8.320	8.530	5.439
PEC277	0.698	6.127	46.446	46.730	93.176	8.176	8.380	5.876
PEC278	35.989	18.935	25.872	19.204	45.076	2.898	6.081	4.005
PEC279	1.656	33.926	33.993	30.424	64.417	6.135	6.927	4.302
PEC280	0.698	7.807	41.098	50.397	91.495	8.402	8.572	6.327
PEC281	0.137	7.062	43.114	49.687	92.800	8.544	8.719	6.067
PEC282	2.112	45.930	26.667	25.292	51.959	5.072	6.375	3.197
PEC283	1.241	80.578	9.865	8.316	18.181	2.821	3.811	1.111
PEC284	0.000	10.834	37.030	52.136	89.166	8.332	8.466	5.763
PEC285	1.096	12.456	41.980	44.468	86.448	7.819	8.190	4.200
PEC286	0.265	91.842	4.158	3.734	7.892	1.934	2.541	0.666
PEC287	1.670	81.714	9.019	7.597	16.616	2.345	3.543	1.396
PEC288	0.127	7.038	46.283	46.552	92.835	8.213	8.380	5.505
PEC289	3.258	95.068	0.587	1.087	1.674	1.301	1.571	0.348
PEC290	1.948	88.603	4.213	5.236	9.449	2.033	2.973	0.815
PEC291	14.746	77.072	4.112	4.070	8.182	1.103	3.014	0.761
PEC292	0.688	32.601	31.715	34.996	66.711	6.785	7.451	3.924
PEC293	1.048	95.255	1.423	2.274	3.697	1.592	2.084	0.423
PEC294	0.645	93.826	3.042	2.487	5.528	1.781	2.136	0.464
PEC295	20.426	59.826	8.827	10.921	19.748	2.100	4.412	1.928
PEC296	3.534	94.926	0.517	1.023	1.540	1.225	1.552	0.520
PEC297	0.351	90.178	4.389	5.082	9.470	2.273	3.001	0.668
PEC298	0.271	90.452	4.447	4.830	9.277	2.190	2.874	0.784
PEC299	26.742	57.281	6.965	9.012	15.977	1.327	4.279	1.680
PEC300	0.485	11.235	39.441	48.840	88.280	8.249	8.590	5.322
PEC301	1.536	7.005	43.667	47.791	91.459	8.101	8.579	5.488
PEC302	0.000	6.222	42.991	50.787	93.778	8.529	8.665	5.287
PEC303	0.000	18.910	31.753	49.336	81.090	8.010	8.440	5.302

Appendix 3 - Grain-size in half phi intervals

phi	<																					>											
	-3.5	-3	-2.5	-2	-1.5	-1	-0.5	0	0.5	1	1.5	2	2.5	3	3.5	4	4.5	5	5.5	6	6.5	7	7.5	8	8.5	9	9.5	10	10.5	11	11		
PEC201	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.32	0.12	0.39	0.64	1.59	0.69	0.73	2.37	2.04	2.62	3.94	6.02	6.06	6.07	5.73	5.17	5.37	4.46	4.70	3.36	3.14	2.86	3.08	28.52		
PEC202	0.00	0.00	0.03	0.04	0.01	0.03	0.20	0.67	0.03	2.39	15.38	18.48	13.67	17.02	7.11	4.58	1.82	1.43	1.44	1.28	1.08	1.06	1.00	1.05	0.93	0.85	0.65	0.72	0.48	0.64	5.92		
PEC203	0.00	0.00	0.00	0.00	0.10	0.20	0.14	0.41	0.41	0.24	0.42	0.62	0.71	0.69	3.97	3.81	3.07	5.00	6.85	6.80	5.62	5.72	4.87	5.19	4.04	3.98	3.49	3.30	2.77	3.34	24.25		
PEC204	0.00	0.00	0.00	0.10	0.16	0.13	0.11	0.71	0.67	1.62	2.41	2.79	3.76	6.01	5.52	5.11	3.76	4.95	5.26	4.86	4.06	4.42	3.63	3.53	3.26	2.53	2.63	2.14	2.15	2.06	21.68		
PEC205	0.00	0.66	0.98	0.26	0.27	0.29	0.62	2.41	3.27	10.34	17.56	15.39	13.38	11.69	5.20	4.18	1.79	1.35	0.99	0.91	0.62	0.65	0.61	0.62	0.56	0.49	0.52	0.37	0.38	0.46	3.18		
PEC206	0.79	3.04	3.11	2.16	1.97	2.43	3.49	3.70	0.63	2.34	4.86	3.99	3.03	12.15	15.01	5.00	2.23	3.03	2.71	2.29	1.89	1.78	1.51	1.38	1.53	1.07	1.16	1.21	1.01	1.05	8.44		
PEC207	45.65	0.87	0.56	0.50	0.30	0.60	1.19	0.88	0.02	0.57	1.50	1.61	1.39	4.24	9.76	5.14	1.74	2.19	2.24	1.78	1.59	1.38	1.33	1.09	1.18	1.06	0.82	0.89	0.94	0.66	6.32		
PEC208	37.10	0.74	1.66	1.65	1.00	0.73	1.26	1.39	0.40	0.89	1.70	1.45	2.14	4.82	9.92	4.68	2.85	2.30	2.37	1.82	1.71	1.37	1.33	1.25	1.01	0.97	0.90	0.82	0.80	0.84	8.11		
PEC209	0.00	0.00	0.00	0.16	0.42	0.53	0.59	0.77	0.14	0.65	0.72	1.10	1.56	3.12	11.33	8.51	5.35	5.72	5.13	4.83	4.22	3.75	3.62	3.25	3.15	2.77	2.08	2.54	2.34	2.17	19.49		
PEC210	0.00	0.60	1.02	1.46	2.00	1.70	2.43	2.88	0.89	2.80	4.08	4.71	3.89	6.15	10.76	5.34	5.35	3.99	3.57	3.33	3.07	2.32	2.54	2.16	1.95	1.93	1.46	1.43	1.21	1.48	13.51		
PEC211	0.00	0.00	0.00	0.00	0.00	0.00	0.19	0.12	0.03	0.03	0.26	0.50	0.68	0.81	4.59	4.28	3.58	6.05	6.20	5.83	5.14	5.72	4.42	5.29	3.89	3.61	3.38	2.74	2.70	3.03	26.94		
PEC212	28.64	1.23	0.87	0.50	0.46	0.38	0.50	0.53	0.12	0.29	0.54	0.51	0.64	1.49	4.91	4.93	2.62	3.18	3.93	3.51	3.54	3.23	3.10	2.69	2.51	1.89	1.89	1.82	1.59	1.28	16.69		
PEC213	0.00	0.00	0.00	0.00	0.01	0.03	0.01	0.20	0.01	0.05	0.23	0.46	0.41	0.70	2.75	2.56	3.19	4.62	5.66	6.03	6.47	5.54	5.10	5.16	4.09	3.99	3.46	3.13	2.99	3.00	30.16		
PEC214	0.00	0.23	0.43	0.41	0.65	0.83	0.78	0.89	0.07	0.56	1.20	1.12	0.96	2.21	9.18	6.55	4.63	5.77	5.86	5.15	4.62	3.82	3.81	3.18	2.94	2.56	2.36	2.42	1.92	21.37			
PEC215	62.50	0.31	0.99	1.10	0.38	0.33	0.63	0.39	0.07	0.30	0.61	0.74	0.58	1.19	3.20	1.74	1.80	2.07	1.94	1.75	1.63	1.51	1.15	1.33	1.00	0.91	0.90	0.81	0.60	0.69	6.85		
PEC216	10.63	2.95	1.93	2.35	2.38	2.32	2.82	2.68	0.69	2.71	3.64	2.54	3.26	5.69	6.29	2.77	2.87	2.68	3.25	3.06	2.74	2.71	2.28	2.21	2.14	1.75	1.75	1.42	1.46	1.46	12.58		
PEC217	40.94	5.86	2.49	1.04	0.92	0.88	1.13	1.16	0.14	0.58	1.09	0.97	0.90	2.04	3.99	1.94	1.95	2.42	2.55	2.37	2.15	1.98	1.62	1.44	1.40	1.09	1.11	1.00	1.06	10.02			
PEC218	11.08	0.54	1.31	1.83	1.99	2.12	3.28	3.69	0.89	2.83	3.83	3.57	3.86	19.37	11.47	3.67	1.93	1.65	1.61	1.65	1.27	1.33	1.29	1.30	0.97	1.02	0.99	0.82	0.67	0.90	7.27		
PEC219	3.17	4.41	4.34	3.40	3.71	3.62	5.69	5.83	1.30	6.23	7.64	7.16	8.18	7.14	3.98	1.79	1.17	1.72	2.06	1.69	1.58	1.20	1.11	1.05	1.02	0.76	0.86	0.84	0.74	0.67	5.95		
PEC220	0.18	1.58	2.34	2.12	2.74	3.24	5.36	5.98	2.54	9.73	13.71	9.12	4.73	2.88	2.36	1.54	1.45	2.04	2.49	2.33	1.74	2.03	1.67	1.63	1.41	1.13	1.18	0.93	1.01	0.83	7.97		
PEC221	0.00	0.00	0.00	0.23	0.28	0.08	0.14	0.28	0.06	0.21	0.68	0.98	0.78	0.73	2.72	2.89	4.40	6.71	7.12	6.11	6.39	5.31	5.05	4.33	4.37	3.07	2.71	3.10	2.61	3.19	25.46		
PEC222	0.00	0.06	0.08	0.05	0.44	0.76	1.24	4.50	6.14	18.25	27.89	14.09	4.23	0.81	2.09	0.67	0.96	0.97	1.32	1.24	1.24	1.12	1.08	0.97	0.92	0.84	0.68	0.65	0.59	0.48	5.66		
PEC223	0.00	0.00	0.00	0.00	0.00	0.00	0.27	1.00	0.32	0.95	1.59	1.60	1.29	1.35	3.39	2.86	3.51	4.88	6.13	5.39	5.85	4.93	4.35	4.21	3.20	3.58	2.95	2.47	2.93	26.04			
PEC224	0.00	0.00	0.13	0.22	0.12	0.20	0.38	0.79	0.25	0.63	1.22	1.99	2.86	4.20	5.79	3.69	4.13	4.61	5.77	4.89	5.08	4.44	4.26	3.88	3.75	3.09	2.72	2.47	2.13	2.99	23.32		
PEC225	0.00	0.97	1.34	0.07	0.10	0.15	1.02	3.68	4.63	11.99	15.57	23.39	23.06	4.26	1.79	0.65	0.73	0.59	0.51	0.46	0.42	0.32	0.39	0.30	0.31	0.26	0.30	0.18	0.27	0.20	2.11		
PEC226	14.77	1.43	0.45	0.71	0.48	0.52	1.12	3.53	4.82	11.84	21.59	21.30	5.80	1.37	0.95	0.42	0.74	0.31	0.48	0.46	0.49	0.42	0.39	0.47	0.40	0.41	0.35	0.36	0.31	0.27	3.04		
PEC227	0.00	0.00	0.00	0.08	0.14	0.11	0.60	1.30	0.56	4.87	17.89	40.51	17.79	4.98	1.23	0.17	0.55	0.67	0.85	0.76	0.64	0.66	0.56	0.44	0.47	0.37	0.27	0.34	0.24	0.29	2.64		
PEC228	0.00	0.00	0.04	0.12	0.65	1.19	0.18	0.33	0.41	3.78	16.02	25.28	20.50	11.26	3.60	1.38	0.76	0.83	1.02	1.10	1.01	1.05	0.92	0.87	0.77	0.55	0.62	0.45	0.41	0.45	4.45		
PEC229	0.00	0.00	0.00	2.30	2.39	0.16	0.38	1.24	1.07	3.82	9.05	13.13	12.11	8.33	3.08	0.77	1.37	1.81	2.33	3.35	3.39	3.05	3.09	2.63	2.28	1.74	1.63	1.23	1.57	1.11	11.60		
PEC230	0.00	0.00	0.00	0.19	0.34	0.31	0.44	0.62	0.24	0.81	1.60	1.90	1.71	1.37	1.08	1.10	2.96	4.66	6.96	7.39	7.21	5.97	5.83	5.00	4.38	3.45	2.84	2.88	2.85	2.83	23.09		
PEC231	0.00	0.40	0.59	0.18	0.19	0.18	0.55	1.81	2.15	7.34	21.21	41.39	8.49	2.02	0.97	0.74	1.19	0.66	0.84	0.84	0.83	0.81	0.64	0.48	0.47	0.33	0.34	0.28	0.31	0.31	0.29	0.26	2.22
PEC232	0.00	0.00	0.00	0.10	0.13	0.07	0.25	0.33	0.05	0.24	0.65	0.92	0.99	0.57	0.54	0.74	2.31	4.54	7.06	7.73	7.58	6.76	6.28	5.50	4.79	3.60	3.21	2.06	2.64	26.64			
PEC233	0.00	0.00	0.00	0.00	0.00	0.00	0.13	0.49	0.10	0.37	0.79	0.80	0.55	0.38	0.55	0.39	2.11	3.67	6.19	6.70	7.67	7.45	6.57	5.98	4.77	3.67	3.56	3.63	3.09	2.89	27.51		
PEC234	0.00	0.00	0.14	0.52	0.63	0.66	0.94	4.99	3.01	26.73	35.41	11.96	2.15	1.00	1.75	1.53	0.30	0.39	0.61	0.52	0.61	0.51	0.49	0.43	0.35	0.33	0.25	0.28	0.24	0.24	0.21	1.45	
PEC235	75.13	0.26	0.42	0.44	0.62	0.58	1.70	3.42	4.28	7.04	3.94	0.73	0.23	0.02	0.02	0.04	0.40	1.24 *	0.37	0.34	0.32	0.37	0.36	0.39	0.36	0.31	0.29	0.26	0.22	0.22	0.22	0.22	0.22
PEC236	0.00	0.20	0.29	0.26</																													

phi	<	-3.5	-3	-2.5	-2	-1.5	-1	-0.5	0	0.5	1	1.5	2	2.5	3	3.5	4	4.5	5	5.5	6	6.5	7	7.5	8	8.5	9	9.5	10	10.5	11	>	
		PEC266	0.00	0.00	0.00	0.00	0.20	0.41	0.70	1.06	0.44	1.04	2.25	3.82	8.64	20.46	20.66	6.96	2.39	2.62	3.09	2.77	1.99	1.90	1.66	1.72	1.64	1.28	1.22	1.04	1.08	1.00	7.95
PEC267	0.00	0.00	0.00	0.00	0.03	0.07	0.06	0.47	0.31	0.84	1.74	2.39	2.70	9.53	12.67	5.50	4.15	4.39	4.57	4.20	4.37	3.30	3.79	3.52	3.22	2.93	3.00	2.21	2.23	1.86	15.94		
PEC268	0.00	0.00	0.00	0.00	0.12	0.23	0.53	0.67	0.55	1.33	2.18	2.76	6.65	23.51	16.11	5.66	3.81	3.01	3.04	2.58	2.17	2.18	2.05	2.32	1.55	1.82	1.49	1.63	1.18	1.25	9.62		
PEC269	0.00	0.56	1.25	1.36	2.05	2.91	4.21	5.19	1.40	4.81	7.43	9.68	20.93	11.51	3.86	1.82	1.56	1.35	1.15	1.54	1.14	1.13	1.22	1.06	1.11	0.94	0.75	0.93	0.77	0.72	5.66		
PEC270	12.08	1.71	2.45	2.01	1.96	2.39	3.80	6.21	7.32	16.39	20.33	14.40	4.42	0.40	0.36	0.25	0.28	0.13	0.17	0.14	0.16	0.16	0.22	0.20	0.24	0.20	0.12	0.15	0.20	0.15	1.01		
PEC271	0.00	0.32	0.92	1.22	1.52	2.14	4.66	8.42	9.54	28.16	19.96	15.15	4.86	0.71	0.33	0.24	0.15	0.08	0.08	0.10	0.06	0.10	0.08	0.11	0.07	0.12	0.11	0.10	0.07	0.09	0.51		
PEC272	0.00	0.00	0.00	0.01	0.14	0.25	0.81	1.85	2.02	6.72	13.21	14.14	19.87	24.15	7.12	2.02	1.12	0.55	0.49	0.41	0.39	0.31	0.34	0.34	0.31	0.35	0.26	0.23	0.28	0.25	2.05		
PEC273	0.00	0.00	0.00	0.00	0.12	0.24	1.76	4.17	6.29	18.37	23.62	19.70	10.20	3.85	1.62	0.90	0.42	0.58	0.60	0.61	0.60	0.52	0.49	0.57	0.46	0.40	0.35	0.34	0.34	0.29	2.58		
PEC274	0.00	0.00	0.00	0.00	0.03	0.05	0.14	0.32	0.05	0.07	0.30	0.71	1.08	2.30	6.41	4.82	3.46	5.18	6.61	6.33	4.85	5.14	4.78	4.70	4.96	3.78	3.61	3.83	3.02	2.93	20.56		
PEC275	0.00	0.00	0.00	0.02	0.04	0.04	0.08	0.19	0.12	0.31	0.57	1.01	1.29	1.94	4.74	3.73	3.84	5.51	6.28	6.08	5.40	4.90	5.04	4.73	4.37	3.74	3.26	3.37	2.81	2.89	23.72		
PEC276	0.00	0.00	0.05	0.07	0.06	0.11	0.05	0.31	0.07	0.15	0.32	0.63	0.80	1.01	2.50	2.49	3.30	4.88	6.48	6.35	6.04	5.29	5.36	5.15	4.64	4.06	3.75	3.71	3.41	3.28	25.68		
PEC277	0.00	0.16	0.22	0.06	0.12	0.13	0.03	0.35	0.07	0.20	0.48	0.92	0.81	0.64	1.29	1.34	3.75	5.98	6.73	7.15	5.76	6.21	5.33	5.54	4.29	4.16	3.69	3.12	3.59	3.08	24.82		
PEC278	24.34	1.95	2.30	2.26	2.50	2.64	2.27	1.80	0.29	1.21	1.49	1.59	1.59	2.24	3.89	2.55	2.23	3.37	4.27	4.13	3.68	3.01	2.59	2.59	1.80	1.59	1.25	1.34	1.58	1.16	10.49		
PEC279	0.00	0.00	0.24	0.71	0.47	0.24	0.54	1.37	1.39	3.32	4.82	5.18	3.45	4.53	6.24	3.10	2.76	3.72	4.60	4.68	4.96	4.27	4.42	4.58	3.41	2.62	2.39	1.73	2.08	1.97	16.22		
PEC280	0.00	0.00	0.27	0.43	0.00	0.00	0.22	0.39	0.05	0.18	0.47	1.02	0.84	1.16	2.25	1.23	1.53	2.47	4.75	5.96	5.94	6.56	6.40	7.49	5.83	4.50	3.69	3.41	3.80	3.27	25.88		
PEC281	0.00	0.00	0.00	0.00	0.05	0.09	0.00	0.31	0.19	0.22	0.47	0.79	0.57	1.12	2.14	1.24	2.61	3.28	4.96	5.49	5.82	6.85	6.94	7.16	5.84	4.64	3.57	3.85	3.56	3.20	25.02		
PEC282	0.00	0.00	0.00	0.00	0.70	1.41	2.31	4.41	3.29	7.93	10.09	8.45	4.63	2.77	0.75	1.31	2.02	2.27	3.66	3.96	4.18	3.59	3.41	3.57	2.54	1.73	1.53	1.63	1.59	1.27	15.02		
PEC283	0.00	0.00	0.21	0.32	0.24	0.47	0.86	3.72	4.52	11.48	16.62	13.49	12.31	11.92	2.91	2.75	1.59	0.96	1.23	1.23	1.32	1.27	1.13	0.93	0.82	0.65	0.59	0.41	0.59	0.43	0.33		
PEC284	0.00	0.00	0.00	0.00	0.00	0.15	0.45	0.28	0.54	0.66	1.04	1.11	2.35	3.04	1.22	1.30	2.29	3.73	4.35	5.17	5.94	7.19	7.05	6.78	4.91	3.82	4.39	3.07	2.92	26.25			
PEC285	0.00	0.00	0.00	0.26	0.45	0.38	0.39	0.80	0.79	1.35	1.84	1.60	1.23	1.41	1.91	1.14	1.81	3.26	5.00	6.17	6.74	6.42	6.32	6.27	5.18	4.33	3.07	2.98	3.16	2.80	22.94		
PEC286	0.00	0.00	0.04	0.08	0.06	0.09	0.27	1.63	3.74	13.10	32.01	32.70	6.78	1.59	0.02	0.02	0.32	0.48	0.63	0.62	0.55	0.58	0.42	0.56	0.36	0.29	0.29	0.28	0.26	0.19	2.06		
PEC287	0.00	0.00	0.18	0.46	0.46	0.57	1.83	5.57	7.31	14.76	24.84	14.69	7.37	3.29	1.44	0.62	1.54	1.03	1.17	1.27	1.07	0.95	1.12	0.87	0.66	0.72	0.59	0.52	0.43	0.50	4.17		
PEC288	0.00	0.00	0.00	0.03	0.05	0.05	0.04	0.19	0.09	0.25	0.56	0.96	0.88	0.63	1.53	1.90	2.79	5.68	6.76	7.17	6.44	6.37	5.60	5.48	4.77	4.25	3.53	3.47	3.31	3.06	24.16		
PEC289	1.24	0.66	0.09	0.26	0.41	0.60	1.09	2.92	3.87	14.44	36.44	28.52	6.90	0.56	0.30	0.02	0.06	0.05	0.06	0.08	0.06	0.09	0.09	0.10	0.08	0.10	0.10	0.10	0.08	0.53			
PEC290	0.91	0.06	0.11	0.14	0.30	0.43	0.63	1.10	1.90	11.33	46.44	16.72	4.68	3.11	1.99	0.69	0.68	0.46	0.54	0.50	0.54	0.56	0.42	0.51	0.47	0.41	0.40	0.29	0.32	0.31	3.03		
PEC291	9.00	1.66	0.56	0.94	1.19	1.40	2.30	5.51	6.32	18.14	22.39	13.39	6.17	1.65	0.39	0.81	1.39	0.39	0.40	0.36	0.44	0.33	0.34	0.46	0.32	0.30	0.32	0.24	0.29	2.19			
PEC292	0.00	0.00	0.00	0.14	0.28	0.27	0.24	0.80	0.10	1.17	2.39	3.02	3.30	6.10	9.74	5.74	3.40	3.66	4.19	4.15	4.41	3.96	4.04	3.92	3.42	2.97	2.65	2.45	2.06	2.32	19.14		
PEC293	0.00	0.03	0.07	0.17	0.34	0.44	1.83	5.66	5.84	15.52	26.78	22.00	9.56	7.29	0.79	0.00	0.15	0.16	0.18	0.17	0.17	0.16	0.24	0.20	0.20	0.16	0.17	0.19	0.13	0.11	1.32		
PEC294	0.31	0.00	0.04	0.11	0.10	0.10	0.37	1.17	2.06	12.55	33.49	33.02	8.40	1.64	0.73	0.40	1.38	0.18	0.23	0.26	0.24	0.23	0.23	0.28	0.22	0.22	0.22	0.22	0.19	1.13			
PEC295	10.31	0.93	1.51	2.66	2.48	2.54	2.59	2.19	0.05	2.19	13.67	28.95	5.89	2.08	1.46	0.75	2.22	0.83	0.99	1.03	0.94	0.86	1.00	0.96	1.01	0.83	0.69	0.75	0.70	0.61	6.33		
PEC296	1.98	0.19	0.26	0.09	0.40	0.61	0.85	2.08	4.08	21.29	37.20	23.11	4.30	0.94	1.04	0.04	0.13	0.03	0.05	0.04	0.05	0.04	0.06	0.10	0.06	0.09	0.07	0.05	0.08	0.07	0.60		
PEC297	0.00	0.05	0.06	0.07	0.10	0.07	0.23	0.80	2.11	8.16	28.20	32.16	13.21	4.07	1.09	0.17	0.45	0.52	0.71	0.61	0.59	0.49	0.49	0.53	0.43	0.39	0.33	0.38	0.26	2.81			
PEC298	0.00	0.00	0.02	0.03	0.07	0.15	0.17	0.45	1.54	11.01	33.11	28.40	11.05	3.40	0.57	0.75	0.94	0.41	0.46	0.52	0.54	0.45	0.54	0.59	0.40	0.37	0.36	0.32	0.34	2.71			
PEC299	23.21	0.91	0.65	0.39	0.68	0.90	0.73	0.84	1.05	5.25	22.48	21.32	4.92	0.41	0.17	0.10	0.73	0.55	0.84	0.93	1.08	0.92	0.97	0.94	0.90	0.71	0.61	0.52	0.50	5.26			
PEC300	0.00	0.00	0.00	0.10	0.20	0.19	0.08	0.21	0.12	0.75	2.65	3.66	1.99	0.80	0.51	0.47	1.63	3.21	5.49	5.73	6.05	6.06	5.46	5.81	4.56	3.94	3.67	2.82	2.46	2.60	28.79		
PEC301	0.00	0.64	0.87	0.00	0.01	0.02	5.43	0.21	0.05	0.17	0																						

Appendix 4 - Faunal Summary Data

SampleID	Number individuals per sample	Abundance per square meter	Number species per sample	Equitability	Diversity
PEC201	177	4425	7	0.635	1.235
PEC202	113	2825	27	0.851	2.806
PEC203	45	1125	8	0.654	1.361
PEC204	18	450	10	0.929	2.139
PEC205	121	3025	28	0.901	3.004
PEC206	117	2925	23	0.777	2.437
PEC207	104	2600	29	0.746	2.513
PEC208	105	2625	29	0.751	2.529
PEC209	62	1550	15	0.819	2.219
PEC210	128	3200	22	0.811	2.505
PEC211	109	2725	6	0.651	1.166
PEC212	109	2725	19	0.834	2.455
PEC213	102	2550	12	0.693	1.722
PEC214	68	1700	10	0.665	1.532
PEC215	177	4425	32	0.803	2.784
PEC216	154	3850	25	0.751	2.417
PEC217	199	4975	34	0.723	2.549
PEC218	208	5200	29	0.789	2.658
PEC219	360	9000	39	0.742	2.718
PEC220	136	3400	26	0.81	2.64
PEC221	55	1375	5	0.855	1.376
PEC222	325	8125	32	0.758	2.627
PEC223	117	2925	12	0.709	1.763
PEC224	68	1700	9	0.747	1.64
PEC225	224	5600	30	0.813	2.765
PEC226	483	12075	33	0.646	2.258
PEC227	216	5400	27	0.793	2.614
PEC228	267	6675	32	0.807	2.797
PEC229	50	1250	21	0.939	2.858
PEC230	36	900	9	0.849	1.865
PEC231	219	5475	35	0.772	2.746
PEC232	67	1675	14	0.744	1.963
PEC233	50	1250	13	0.757	1.941
PEC234	701	17525	26	0.374	1.219
PEC235	59	1475	19	0.775	2.283
PEC236	83	2075	18	0.842	2.435
PEC237	137	3425	17	0.808	2.29
PEC238	9	225	7	0.971	1.889
PEC239	163	4075	22	0.629	1.944
PEC240	125	3125	34	0.831	2.93
PEC241	192	4800	27	0.718	2.367
PEC242	25	625	11	0.853	2.044
PEC243	81	2025	25	0.889	2.862
PEC244	66	1650	19	0.826	2.432
PEC245	209	5225	22	0.721	2.23
PEC246	43	1075	7	0.819	1.593
PEC247	135	3375	24	0.779	2.476
PEC248	199	4975	39	0.804	2.946
PEC249	288	7200	27	0.71	2.339
PEC250	95	2375	19	0.827	2.434
PEC251	90	2250	26	0.917	2.989
PEC252	220	5500	22	0.746	2.306

Appendix 4 - Faunal Summary Data

SampleID	Number individuals per sample	Abundance per square meter	Number species per sample	Equitability	Diversity
PEC253	178	4450	17	0.769	2.18
PEC254	218	5450	31	0.692	2.375
PEC255	205	5125	25	0.717	2.309
PEC256	184	4600	31	0.663	2.277
PEC257	65	1625	17	0.895	2.536
PEC258	242	6050	34	0.811	2.862
PEC259	79	1975	14	0.772	2.037
PEC260	214	5350	32	0.693	2.403
PEC261	230	5750	38	0.824	2.999
PEC262	169	4225	30	0.79	2.688
PEC263	221	5525	34	0.812	2.864
PEC264	103	2575	13	0.827	2.122
PEC265	181	4525	32	0.771	2.672
PEC266	166	4150	17	0.687	1.946
PEC267	151	3775	11	0.742	1.78
PEC268	145	3625	21	0.815	2.482
PEC269	171	4275	32	0.801	2.775
PEC270	182	4550	35	0.817	2.905
PEC271	192	4800	35	0.847	3.012
PEC272	137	3425	24	0.833	2.647
PEC273	115	2875	21	0.767	2.336
PEC274	100	2500	14	0.659	1.74
PEC275	17	425	8	0.941	1.956
PEC276	19	475	7	0.838	1.631
PEC277	7	175	3	0.725	0.796
PEC278	191	4775	14	0.375	0.99
PEC279	89	2225	19	0.724	2.133
PEC280	46	1150	11	0.826	1.981
PEC281	13	325	7	0.914	1.778
PEC282	150	3750	18	0.587	1.697
PEC283	163	4075	20	0.628	1.881
PEC284	12	300	6	0.936	1.676
PEC285	50	1250	14	0.835	2.204
PEC286	310	7750	31	0.654	2.246
PEC287	278	6950	31	0.695	2.386
PEC288	23	575	6	0.651	1.166
PEC289	350	8750	40	0.705	2.6
PEC290	261	6525	37	0.713	2.573
PEC291	1009	25225	48	0.61	2.363
PEC292	106	2650	10	0.604	1.392
PEC293	439	10975	40	0.715	2.639
PEC294	321	8025	36	0.739	2.648
PEC295	516	12900	44	0.579	2.193
PEC296	260	6500	33	0.729	2.548
PEC297	256	6400	41	0.759	2.819
PEC298	246	6150	33	0.743	2.598
PEC299	323	8075	37	0.628	2.266
PEC300	102	2550	11	0.635	1.524
PEC301	42	1050	6	0.807	1.445
PEC302	85	2125	15	0.577	1.563
PEC303	56	1400	9	0.802	1.762

Appendix 5 - Faunal Data Summaries by Region and Sample

***** Output from program SUMMARY *****
 PC-ORD, Version 4.41
 12 Nov 2009, 17:49

Data Summary - By Region

Compact format data file:

C:\Documents and Settings\Bob\My Documents\Peconics - Phase III Mapping\PC-Ord Analysis\PCOrdDataCompact.txt

Species file:

C:\Documents and Settings\Bob\My Documents\Peconics - Phase III Mapping\PC-Ord Analysis\PC_OrdSpe.txt

Matrix size: 103 Sample (rows)
 153 Species (columns)

Subgroup: LittlPec

Summary of 34 Sample N= 98 Species									
No.	Name	Mean	Stand.Dev.	Sum	Minimum	Maximum	S	E	H`
1	PEC201	1.806	9.003	177.0	0.00	102.	7	0.635	1.235
2	PEC202	1.153	2.598	113.0	0.00	19.0	27	0.851	2.806
3	PEC203	0.4592	2.283	45.00	0.00	27.0	8	0.654	1.361
4	PEC204	0.1837	0.5291	18.00	0.00	4.00	10	0.929	2.139
5	PEC205	1.235	2.342	121.0	0.00	13.0	28	0.901	3.004
6	PEC206	1.194	3.665	117.0	0.00	39.0	23	0.777	2.437
7	PEC207	1.061	3.574	104.0	0.00	42.0	29	0.746	2.513
8	PEC208	1.071	3.314	105.0	0.00	36.0	29	0.751	2.529
9	PEC209	0.6327	1.879	62.00	0.00	15.0	15	0.819	2.219
10	PEC210	1.306	3.459	128.0	0.00	30.0	22	0.811	2.505
11	PEC211	1.112	5.460	109.0	0.00	58.0	6	0.651	1.166
12	PEC212	1.112	3.026	109.0	0.00	24.0	19	0.834	2.455
13	PEC213	1.041	4.047	102.0	0.00	37.0	12	0.693	1.722
14	PEC214	0.6939	3.105	68.00	0.00	35.0	10	0.665	1.532
15	PEC215	1.806	4.235	177.0	0.00	35.0	32	0.803	2.784
16	PEC216	1.571	4.918	154.0	0.00	54.0	25	0.751	2.417
17	PEC217	2.031	6.209	199.0	0.00	56.0	34	0.723	2.549
18	PEC218	2.122	5.106	208.0	0.00	37.0	29	0.789	2.658
19	PEC219	3.673	9.936	360.0	0.00	98.0	39	0.742	2.718
20	PEC220	1.388	3.744	136.0	0.00	39.0	26	0.810	2.640
21	PEC221	0.5612	2.400	55.00	0.00	22.0	5	0.855	1.376
22	PEC222	3.316	8.319	325.0	0.00	63.0	32	0.758	2.627
23	PEC223	1.194	4.971	117.0	0.00	57.0	12	0.709	1.763
24	PEC224	0.6939	2.959	68.00	0.00	34.0	9	0.747	1.640
25	PEC225	2.286	5.392	224.0	0.00	42.0	30	0.813	2.765
26	PEC226	4.929	15.42	483.0	0.00	133.	33	0.646	2.258
27	PEC227	2.204	5.579	216.0	0.00	42.0	27	0.793	2.614
28	PEC228	2.724	6.216	267.0	0.00	45.0	32	0.807	2.797
29	PEC229	0.5102	1.016	50.00	0.00	6.00	21	0.939	2.858
30	PEC230	0.3673	1.298	36.00	0.00	13.0	9	0.849	1.865
31	PEC231	2.235	5.952	219.0	0.00	61.0	35	0.772	2.746
32	PEC232	0.6837	2.551	67.00	0.00	28.0	14	0.744	1.963
33	PEC233	0.5102	1.904	50.00	0.00	21.0	13	0.757	1.941
34	PEC234	7.153	42.40	701.0	0.00	521.	26	0.374	1.219
<hr/>									
AVERAGES: 1.65 5.55 161.5 0.00 55.5 21.4 0.762 2.230									
<hr/>									
Number of cells in main matrix = 3332									
Percent of cells empty = 78.151									
Matrix total = 5.4900E+03									
Matrix mean = 1.6477E+00									
Variance of totals of Sample = 1.9203E+04									
<hr/>									

$S = \text{Richness} = \text{number of non-zero elements in row}$
 $E = \text{Evenness} = H / \ln(\text{Richness})$
 $H = \text{Diversity} = -\sum (\text{Pi} * \ln(\text{Pi}))$
 where $\text{Pi} = \text{importance probability in element } i \text{ (element } i \text{ relativized by row total)}$

Summary of 98 Species				N= 34 Sample			
No.	Name	Mean	Stand.Dev.	Sum	Minimum	Maximum	S
1	Actecana	0.500E+00	0.108E+01	0.1700E+02	0.000E+00	0.500E+01	9
2	Ampevado	0.150E+01	0.188E+01	0.5100E+02	0.000E+00	0.700E+01	19
3	Ampeverr	0.882E-01	0.288E+00	0.3000E+01	0.000E+00	0.100E+01	3
4	Ampharct	0.500E+00	0.108E+01	0.1700E+02	0.000E+00	0.400E+01	8
5	Amphitdae	0.588E-01	0.239E+00	0.2000E+01	0.000E+00	0.100E+01	2
6	Amphabdi	0.403E+01	0.455E+01	0.1370E+03	0.000E+00	0.150E+02	24
7	Anadtran	0.147E+00	0.702E+00	0.5000E+01	0.000E+00	0.400E+01	2
8	Anomsimp	0.588E-01	0.343E+00	0.2000E+01	0.000E+00	0.200E+01	1
9	Anoplent	0.206E+00	0.538E+00	0.7000E+01	0.000E+00	0.200E+01	5
11	Ariccath	0.247E+01	0.389E+01	0.8400E+02	0.000E+00	0.190E+02	22
12	Asabocul	0.588E-01	0.239E+00	0.2000E+01	0.000E+00	0.100E+01	2
13	Asycelon	0.882E+00	0.189E+01	0.3000E+02	0.000E+00	0.900E+01	11
14	Autocorn	0.206E+00	0.880E+00	0.7000E+01	0.000E+00	0.500E+01	3
16	Balaamph	0.265E+01	0.154E+02	0.9000E+02	0.000E+00	0.900E+02	1
17	Batecath	0.456E+01	0.139E+02	0.1550E+03	0.000E+00	0.620E+02	10
18	Bittalte	0.529E+00	0.309E+01	0.1800E+02	0.000E+00	0.180E+02	1
20	Branclav	0.882E-01	0.288E+00	0.3000E+01	0.000E+00	0.100E+01	3
21	Branwell	0.147E+00	0.702E+00	0.5000E+01	0.000E+00	0.400E+01	2
23	Capisp	0.214E+02	0.249E+02	0.7260E+03	0.000E+00	0.980E+02	27
26	Cephsp	0.294E-01	0.171E+00	0.1000E+01	0.000E+00	0.100E+01	1
29	Clymzona	0.153E+01	0.229E+01	0.5200E+02	0.000E+00	0.900E+01	15
31	Corosp	0.147E+00	0.610E+00	0.5000E+01	0.000E+00	0.300E+01	2
32	Cosslong	0.156E+01	0.355E+01	0.5300E+02	0.000E+00	0.170E+02	12
35	Crepforn	0.941E+00	0.531E+01	0.3200E+02	0.000E+00	0.310E+02	2
42	Elaslevi	0.294E-01	0.171E+00	0.1000E+01	0.000E+00	0.100E+01	1
43	Ensidiire	0.294E-01	0.171E+00	0.1000E+01	0.000E+00	0.100E+01	1
44	Ericbras	0.912E+00	0.429E+01	0.3100E+02	0.000E+00	0.250E+02	5
45	Ericsp	0.294E-01	0.171E+00	0.1000E+01	0.000E+00	0.100E+01	1
46	Eteolact	0.588E-01	0.343E+00	0.2000E+01	0.000E+00	0.200E+01	1
47	Eumisang	0.353E+00	0.734E+00	0.1200E+02	0.000E+00	0.200E+01	7
49	Exogdisp	0.412E+00	0.108E+01	0.1400E+02	0.000E+00	0.500E+01	6
50	Gemmagemm	0.294E-01	0.171E+00	0.1000E+01	0.000E+00	0.100E+01	1
51	Glycamer	0.529E+00	0.788E+00	0.1800E+02	0.000E+00	0.200E+01	12
52	Glycsoli	0.291E+01	0.416E+01	0.9900E+02	0.000E+00	0.190E+02	22
54	Gyptvitt	0.412E+00	0.121E+01	0.1400E+02	0.000E+00	0.600E+01	5
56	Harmsp	0.185E+01	0.276E+01	0.6300E+02	0.000E+00	0.900E+01	17
57	Heteform	0.294E-01	0.171E+00	0.1000E+01	0.000E+00	0.100E+01	1
58	Hydrdrian	0.294E-01	0.171E+00	0.1000E+01	0.000E+00	0.100E+01	1
59	Ilyatriiv	0.882E-01	0.288E+00	0.3000E+01	0.000E+00	0.100E+01	3
60	Isopsp	0.294E-01	0.171E+00	0.1000E+01	0.000E+00	0.100E+01	1
62	Laevmort	0.294E-01	0.171E+00	0.1000E+01	0.000E+00	0.100E+01	1
63	Lembosmit	0.126E+01	0.585E+01	0.4300E+02	0.000E+00	0.340E+02	6
64	Libiemar	0.294E-01	0.171E+00	0.1000E+01	0.000E+00	0.100E+01	1
66	Lucoince	0.147E+00	0.436E+00	0.5000E+01	0.000E+00	0.200E+01	4
68	Lumbtenu	0.191E+01	0.598E+01	0.6500E+02	0.000E+00	0.280E+02	5
69	Lyonhyal	0.338E+01	0.421E+01	0.1150E+03	0.000E+00	0.160E+02	20
71	Macotent	0.832E+01	0.141E+02	0.2830E+03	0.000E+00	0.610E+02	22
72	Melicris	0.574E+01	0.121E+02	0.1950E+03	0.000E+00	0.450E+02	15
74	Mercmerc	0.588E-01	0.239E+00	0.2000E+01	0.000E+00	0.100E+01	2
76	Minusp	0.929E+01	0.121E+02	0.3160E+03	0.000E+00	0.420E+02	27
77	Monosp	0.294E-01	0.171E+00	0.1000E+01	0.000E+00	0.100E+01	1
78	Mulilate	0.882E-01	0.379E+00	0.3000E+01	0.000E+00	0.200E+01	2
81	Nemasps	0.272E+02	0.906E+02	0.9260E+03	0.000E+00	0.521E+03	23
82	Nephpict	0.150E+01	0.245E+01	0.5100E+02	0.000E+00	0.900E+01	15
83	Neptinci	0.100E+01	0.110E+01	0.3400E+02	0.000E+00	0.400E+01	19
84	Neregray	0.882E-01	0.288E+00	0.3000E+01	0.000E+00	0.100E+01	3
86	Nicosps	0.882E-01	0.379E+00	0.3000E+01	0.000E+00	0.200E+01	2
88	Nucuprox	0.471E+00	0.113E+01	0.1600E+02	0.000E+00	0.600E+01	9
89	Odonfulg	0.144E+01	0.573E+01	0.4900E+02	0.000E+00	0.330E+02	6
90	Oligsp	0.215E+01	0.261E+01	0.7300E+02	0.000E+00	0.900E+01	21

92	Orbinia	0.882E-01	0.288E+00	0.3000E+01	0.000E+00	0.100E+01	3
93	OstrA	0.621E+01	0.114E+02	0.2110E+03	0.000E+00	0.430E+02	19
94	OstrB	0.206E+00	0.120E+01	0.7000E+01	0.000E+00	0.700E+01	1
95	Owenfusi	0.588E-01	0.343E+00	0.2000E+01	0.000E+00	0.200E+01	1
96	Oxyusmit	0.588E-01	0.239E+00	0.2000E+01	0.000E+00	0.100E+01	2
98	Palapugi	0.294E-01	0.171E+00	0.1000E+01	0.000E+00	0.100E+01	1
99	Pandgoul	0.176E+00	0.459E+00	0.6000E+01	0.000E+00	0.200E+01	5
100	Panoherb	0.147E+00	0.436E+00	0.5000E+01	0.000E+00	0.200E+01	4
101	Parateni	0.676E+00	0.267E+01	0.2300E+02	0.000E+00	0.150E+02	4
104	Paraspin	0.412E+00	0.223E+01	0.1400E+02	0.000E+00	0.130E+02	2
105	Paralong	0.294E-01	0.171E+00	0.1000E+01	0.000E+00	0.100E+01	1
106	Pectgoul	0.735E+00	0.126E+01	0.2500E+02	0.000E+00	0.400E+01	12
108	Phylaren	0.294E-01	0.171E+00	0.1000E+01	0.000E+00	0.100E+01	1
111	Pistpalm	0.676E+00	0.843E+00	0.2300E+02	0.000E+00	0.300E+01	16
112	Podaobsc	0.382E+00	0.954E+00	0.1300E+02	0.000E+00	0.500E+01	8
114	Poly lign	0.124E+01	0.561E+01	0.4200E+02	0.000E+00	0.320E+02	3
115	Polydora	0.750E+01	0.975E+01	0.2550E+03	0.000E+00	0.560E+02	31
117	Priohete	0.882E-01	0.288E+00	0.3000E+01	0.000E+00	0.100E+01	3
118	Priopinn	0.465E+01	0.604E+01	0.1580E+03	0.000E+00	0.180E+02	20
119	Rictpunc	0.294E-01	0.171E+00	0.1000E+01	0.000E+00	0.100E+01	1
120	Rudinagl	0.206E+00	0.641E+00	0.7000E+01	0.000E+00	0.300E+01	4
122	Sabevulg	0.147E+00	0.558E+00	0.5000E+01	0.000E+00	0.300E+01	3
125	Schirudo	0.294E-01	0.171E+00	0.1000E+01	0.000E+00	0.100E+01	1
126	Scolsqua	0.300E+01	0.444E+01	0.1020E+03	0.000E+00	0.180E+02	22
128	Seiladam	0.588E-01	0.343E+00	0.2000E+01	0.000E+00	0.200E+01	1
130	Soleviri	0.588E-01	0.239E+00	0.2000E+01	0.000E+00	0.100E+01	2
131	Solesp	0.294E-01	0.171E+00	0.1000E+01	0.000E+00	0.100E+01	1
132	Sphaerin	0.294E+00	0.799E+00	0.1000E+02	0.000E+00	0.400E+01	6
133	Sphahyst	0.362E+01	0.732E+01	0.1230E+03	0.000E+00	0.380E+02	19
136	Spiobomb	0.676E+00	0.155E+01	0.2300E+02	0.000E+00	0.800E+01	10
138	Stenminu	0.588E-01	0.343E+00	0.2000E+01	0.000E+00	0.200E+01	1
140	Strebene	0.588E-01	0.239E+00	0.2000E+01	0.000E+00	0.100E+01	2
141	Syllseto	0.294E+00	0.129E+01	0.1000E+02	0.000E+00	0.700E+01	2
144	Tellagil	0.206E+00	0.729E+00	0.7000E+01	0.000E+00	0.300E+01	3
146	Tharsp	0.124E+02	0.221E+02	0.4200E+03	0.000E+00	0.102E+03	27
148	Turbelisp	0.441E+00	0.191E+01	0.1500E+02	0.000E+00	0.110E+02	4
149	Turbonesp	0.235E+00	0.741E+00	0.8000E+01	0.000E+00	0.400E+01	5
153	Uroscine	0.588E-01	0.343E+00	0.2000E+01	0.000E+00	0.200E+01	1

AVERAGES: 0.165E+01 0.361E+01 0.5602E+02 0.0000E+00 0.176E+02 7.4

Subgroup: ShlIsWst

Summary of 21 Sample N= 101 Species							
No.	Name	Mean	Stand.Dev.	Sum	Minimum	Maximum	S E H`
1	PEC235	0.5842	2.078	59.00	0.00	24.0	19 0.775 2.283
2	PEC236	0.8218	2.197	83.00	0.00	15.0	18 0.842 2.435
3	PEC237	1.356	4.033	137.0	0.00	36.0	17 0.808 2.290
4	PEC238	0.8911E-01	0.2880	9.000	0.00	2.00	7 0.971 1.889
5	PEC239	1.614	6.948	163.0	0.00	82.0	22 0.629 1.944
6	PEC240	1.238	2.777	125.0	0.00	19.0	34 0.831 2.930
7	PEC241	1.901	5.927	192.0	0.00	57.0	27 0.718 2.367
8	PEC242	0.2475	0.8351	25.00	0.00	8.00	11 0.853 2.044
9	PEC243	0.8020	1.795	81.00	0.00	15.0	25 0.889 2.862
10	PEC244	0.6535	1.866	66.00	0.00	17.0	19 0.826 2.432
11	PEC245	2.069	7.160	209.0	0.00	78.0	22 0.721 2.230
12	PEC246	0.4257	1.713	43.00	0.00	16.0	7 0.819 1.593
13	PEC247	1.337	3.910	135.0	0.00	39.0	24 0.779 2.476
14	PEC248	1.970	4.720	199.0	0.00	40.0	39 0.804 2.946
15	PEC249	2.851	8.811	288.0	0.00	69.0	27 0.710 2.339
16	PEC250	0.9406	2.582	95.00	0.00	21.0	19 0.827 2.434
17	PEC251	0.8911	1.775	90.00	0.00	14.0	26 0.917 2.989
18	PEC252	2.178	6.814	220.0	0.00	66.0	22 0.746 2.306
19	PEC253	1.762	5.770	178.0	0.00	54.0	17 0.769 2.180
20	PEC254	2.158	7.214	218.0	0.00	77.0	31 0.692 2.375
21	PEC255	2.030	6.459	205.0	0.00	59.0	25 0.717 2.309

AVERAGES: 1.33 4.08 134.3 0.00 38.5 21.8 0.793 2.364

Number of cells in main matrix = 2121

Percent of cells empty = 78.406

Matrix total = 2.8200E+03

Matrix mean = 1.3296E+00

Variance of totals of Sample = 5.7096E+03

S = Richness = number of non-zero elements in row

E = Evenness = H / ln (Richness)

H = Diversity = - sum (Pi*ln(Pi))

where Pi = importance probability in element i (element i
relativized by row total)

Summary of 101 Species N= 21 Sample

No.	Name	Mean	Stand.Dev.	Sum	Minimum	Maximum	S
1	Actecana	0.238E+00	0.768E+00	0.5000E+01	0.000E+00	0.300E+01	2
2	Ampevado	0.128E+02	0.186E+02	0.2680E+03	0.000E+00	0.690E+02	16
3	Ampeverr	0.324E+01	0.593E+01	0.6800E+02	0.000E+00	0.230E+02	8
4	Ampharct	0.448E+01	0.660E+01	0.9400E+02	0.000E+00	0.230E+02	11
5	Amphtdae	0.952E-01	0.436E+00	0.2000E+01	0.000E+00	0.200E+01	1
6	Amphabdi	0.143E+00	0.478E+00	0.3000E+01	0.000E+00	0.200E+01	2
7	Anadtran	0.381E+00	0.973E+00	0.8000E+01	0.000E+00	0.300E+01	3
8	Anomsimp	0.286E+00	0.902E+00	0.6000E+01	0.000E+00	0.400E+01	3
10	Arabiric	0.476E-01	0.218E+00	0.1000E+01	0.000E+00	0.100E+01	1
11	Ariccath	0.213E+02	0.283E+02	0.4470E+03	0.000E+00	0.820E+02	12
14	Autocorn	0.476E+00	0.150E+01	0.1000E+02	0.000E+00	0.500E+01	2
15	Autofasc	0.952E-01	0.301E+00	0.2000E+01	0.000E+00	0.100E+01	2
16	Balaamph	0.424E+01	0.125E+02	0.8900E+02	0.000E+00	0.560E+02	4
17	Batecath	0.276E+01	0.698E+01	0.5800E+02	0.000E+00	0.250E+02	8
19	Bivasp	0.190E+00	0.602E+00	0.4000E+01	0.000E+00	0.200E+01	2
20	Branclav	0.143E+00	0.359E+00	0.3000E+01	0.000E+00	0.100E+01	3
21	Branwell	0.148E+01	0.242E+01	0.3100E+02	0.000E+00	0.900E+01	10
22	Busycari	0.476E-01	0.218E+00	0.1000E+01	0.000E+00	0.100E+01	1
23	Capisp	0.173E+02	0.190E+02	0.3630E+03	0.000E+00	0.780E+02	17
24	Caprpena	0.952E-01	0.301E+00	0.2000E+01	0.000E+00	0.100E+01	2
25	Caprsp	0.429E+00	0.143E+01	0.9000E+01	0.000E+00	0.600E+01	2
26	Cephsp	0.476E-01	0.218E+00	0.1000E+01	0.000E+00	0.100E+01	1
27	Ceriemer	0.952E-01	0.301E+00	0.2000E+01	0.000E+00	0.100E+01	2
28	Chaeapic	0.952E-01	0.436E+00	0.2000E+01	0.000E+00	0.200E+01	1
29	Clymzona	0.305E+01	0.368E+01	0.6400E+02	0.000E+00	0.120E+02	16
31	Corosp	0.286E+00	0.784E+00	0.6000E+01	0.000E+00	0.300E+01	3
32	Cosslong	0.714E+00	0.327E+01	0.1500E+02	0.000E+00	0.150E+02	1
33	Cransept	0.952E-01	0.301E+00	0.2000E+01	0.000E+00	0.100E+01	2
34	Crasmact	0.571E+00	0.175E+01	0.1200E+02	0.000E+00	0.800E+01	5
35	Crepforn	0.248E+01	0.494E+01	0.5200E+02	0.000E+00	0.170E+02	6
41	Dyspsayi	0.952E-01	0.301E+00	0.2000E+01	0.000E+00	0.100E+01	2
42	Elaslevi	0.476E-01	0.218E+00	0.1000E+01	0.000E+00	0.100E+01	1
43	Ensidire	0.857E+00	0.156E+01	0.1800E+02	0.000E+00	0.600E+01	8
44	Ericbras	0.238E+00	0.625E+00	0.5000E+01	0.000E+00	0.200E+01	3
47	Eumisang	0.286E+00	0.717E+00	0.6000E+01	0.000E+00	0.300E+01	4
49	Exogdisp	0.343E+01	0.541E+01	0.7200E+02	0.000E+00	0.170E+02	12
51	Glycamer	0.619E+00	0.865E+00	0.1300E+02	0.000E+00	0.300E+01	9
54	Gyptwitt	0.286E+00	0.561E+00	0.6000E+01	0.000E+00	0.200E+01	5
55	Harmimbr	0.857E+00	0.162E+01	0.1800E+02	0.000E+00	0.700E+01	8
56	Harmsp	0.314E+01	0.117E+02	0.6600E+02	0.000E+00	0.540E+02	6
57	Heteform	0.952E-01	0.301E+00	0.2000E+01	0.000E+00	0.100E+01	2
59	Ilyatriv	0.190E+00	0.680E+00	0.4000E+01	0.000E+00	0.300E+01	2
60	Isopsp	0.148E+01	0.528E+01	0.3100E+02	0.000E+00	0.240E+02	4
61	Jassfalc	0.476E-01	0.218E+00	0.1000E+01	0.000E+00	0.100E+01	1
63	Lembsmiit	0.190E+00	0.402E+00	0.4000E+01	0.000E+00	0.100E+01	4
66	Lucoince	0.381E+00	0.921E+00	0.8000E+01	0.000E+00	0.300E+01	4
68	Lumbtenu	0.952E-01	0.301E+00	0.2000E+01	0.000E+00	0.100E+01	2
69	Lyonhyal	0.267E+01	0.485E+01	0.5600E+02	0.000E+00	0.180E+02	12
71	Macotent	0.190E+01	0.485E+01	0.4000E+02	0.000E+00	0.160E+02	3
72	Melicris	0.476E-01	0.218E+00	0.1000E+01	0.000E+00	0.100E+01	1
74	Mercmerc	0.476E-01	0.218E+00	0.1000E+01	0.000E+00	0.100E+01	1
76	Minusp	0.200E+01	0.678E+01	0.4200E+02	0.000E+00	0.300E+02	3

79	Mytiedul	0.952E-01	0.436E+00	0.2000E+01	0.000E+00	0.200E+01	1
82	Neph pict	0.905E+00	0.130E+01	0.1900E+02	0.000E+00	0.400E+01	8
83	Neptinci	0.210E+01	0.419E+01	0.4400E+02	0.000E+00	0.140E+02	7
84	Neregray	0.381E+00	0.590E+00	0.8000E+01	0.000E+00	0.200E+01	7
88	Nucuprox	0.152E+01	0.216E+01	0.3200E+02	0.000E+00	0.700E+01	11
89	Odonfulg	0.286E+01	0.845E+01	0.6000E+02	0.000E+00	0.350E+02	6
90	Oligsp	0.686E+01	0.127E+02	0.1440E+03	0.000E+00	0.590E+02	17
91	Ophesp	0.476E-01	0.218E+00	0.1000E+01	0.000E+00	0.100E+01	1
93	OstrA	0.238E+00	0.625E+00	0.5000E+01	0.000E+00	0.200E+01	3
96	Oxyusmit	0.238E+00	0.768E+00	0.5000E+01	0.000E+00	0.300E+01	2
97	Pagulong	0.476E-01	0.218E+00	0.1000E+01	0.000E+00	0.100E+01	1
100	Panoherb	0.714E+00	0.149E+01	0.1500E+02	0.000E+00	0.500E+01	5
101	Parateni	0.952E-01	0.301E+00	0.2000E+01	0.000E+00	0.100E+01	2
102	Paraholm	0.952E-01	0.301E+00	0.2000E+01	0.000E+00	0.100E+01	2
103	Paraspec	0.476E-01	0.218E+00	0.1000E+01	0.000E+00	0.100E+01	1
104	Paraspin	0.181E+01	0.279E+01	0.3800E+02	0.000E+00	0.100E+02	11
105	Paralong	0.252E+01	0.412E+01	0.5300E+02	0.000E+00	0.150E+02	11
106	Pectgoul	0.952E-01	0.436E+00	0.2000E+01	0.000E+00	0.200E+01	1
108	Phylaren	0.952E-01	0.436E+00	0.2000E+01	0.000E+00	0.200E+01	1
111	Pistpalm	0.238E+00	0.109E+01	0.5000E+01	0.000E+00	0.500E+01	1
113	Policonc	0.286E+00	0.110E+01	0.6000E+01	0.000E+00	0.500E+01	2
115	Polydora	0.143E+01	0.231E+01	0.3000E+02	0.000E+00	0.800E+01	9
116	Polygord	0.476E-01	0.218E+00	0.1000E+01	0.000E+00	0.100E+01	1
117	Priohete	0.476E-01	0.218E+00	0.1000E+01	0.000E+00	0.100E+01	1
118	Priopinn	0.476E-01	0.218E+00	0.1000E+01	0.000E+00	0.100E+01	1
120	Rudinagl	0.143E+00	0.478E+00	0.3000E+01	0.000E+00	0.200E+01	2
124	Schicaec	0.952E-01	0.301E+00	0.2000E+01	0.000E+00	0.100E+01	2
125	Schirudo	0.476E-01	0.218E+00	0.1000E+01	0.000E+00	0.100E+01	1
126	Scolsqua	0.110E+01	0.339E+01	0.2300E+02	0.000E+00	0.150E+02	4
127	Scolsp	0.952E-01	0.301E+00	0.2000E+01	0.000E+00	0.100E+01	2
128	Seiladam	0.952E-01	0.436E+00	0.2000E+01	0.000E+00	0.200E+01	1
132	Sphaerin	0.181E+01	0.522E+01	0.3800E+02	0.000E+00	0.240E+02	7
133	Sphahyst	0.762E+00	0.130E+01	0.1600E+02	0.000E+00	0.500E+01	8
134	Spiosp	0.143E+00	0.359E+00	0.3000E+01	0.000E+00	0.100E+01	3
136	Spiobomb	0.138E+01	0.335E+01	0.2900E+02	0.000E+00	0.150E+02	7
137	Spissoli	0.952E-01	0.436E+00	0.2000E+01	0.000E+00	0.200E+01	1
138	Stenminu	0.619E+00	0.196E+01	0.1300E+02	0.000E+00	0.900E+01	5
139	Stheboa	0.952E-01	0.301E+00	0.2000E+01	0.000E+00	0.100E+01	2
141	Syllseto	0.124E+01	0.221E+01	0.2600E+02	0.000E+00	0.800E+01	9
142	Syllgrac	0.381E+00	0.116E+01	0.8000E+01	0.000E+00	0.500E+01	3
143	Tanyorbi	0.952E-01	0.436E+00	0.2000E+01	0.000E+00	0.200E+01	1
144	Tellagil	0.233E+01	0.490E+01	0.4900E+02	0.000E+00	0.210E+02	9
145	Teresp	0.619E+00	0.196E+01	0.1300E+02	0.000E+00	0.900E+01	5
146	Tharsp	0.214E+01	0.365E+01	0.4500E+02	0.000E+00	0.150E+02	11
147	Travcarn	0.476E-01	0.218E+00	0.1000E+01	0.000E+00	0.100E+01	1
148	Turbelssp	0.952E-01	0.436E+00	0.2000E+01	0.000E+00	0.200E+01	1
151	Uncirro	0.952E+00	0.140E+01	0.2000E+02	0.000E+00	0.500E+01	10
152	Uncisp	0.286E+00	0.956E+00	0.6000E+01	0.000E+00	0.400E+01	2
153	Uroscine	0.143E+00	0.478E+00	0.3000E+01	0.000E+00	0.200E+01	2

AVERAGES: 0.133E+01 0.253E+01 0.2792E+02 0.000E+00 0.984E+01 4.5

Subgroup: NoyakBay

Summary of 33 Sample N= 109 Species							
No.	Name	Mean	Stand.Dev.	Sum	Minimum	Maximum	S E H`
1	PEC256	1.688	6.943	184.0	0.00	79.0	31 0.663 2.277
2	PEC257	0.5963	1.568	65.00	0.00	10.0	17 0.895 2.536
3	PEC258	2.220	6.034	242.0	0.00	61.0	34 0.811 2.862
4	PEC259	0.7248	2.629	79.00	0.00	23.0	14 0.772 2.037
5	PEC260	1.963	7.358	214.0	0.00	80.0	32 0.693 2.403
6	PEC261	2.110	5.226	230.0	0.00	49.0	38 0.824 2.999
7	PEC262	1.550	4.282	169.0	0.00	33.0	30 0.790 2.688
8	PEC263	2.028	5.273	221.0	0.00	51.0	34 0.812 2.864
9	PEC264	0.9450	3.296	103.0	0.00	33.0	13 0.827 2.122
10	PEC265	1.661	4.839	181.0	0.00	45.0	32 0.771 2.672
11	PEC266	1.523	6.118	166.0	0.00	61.0	17 0.687 1.946

12	PEC267	1.385	5.780	151.0	0.00	59.0	11	0.742	1.780
13	PEC268	1.330	3.856	145.0	0.00	27.0	21	0.815	2.482
14	PEC269	1.569	4.172	171.0	0.00	34.0	32	0.801	2.775
15	PEC270	1.670	4.436	182.0	0.00	45.0	35	0.817	2.905
16	PEC271	1.761	3.924	192.0	0.00	26.0	35	0.847	3.012
17	PEC272	1.257	3.407	137.0	0.00	28.0	24	0.833	2.647
18	PEC273	1.055	3.361	115.0	0.00	22.0	21	0.767	2.336
19	PEC274	0.9174	4.162	100.0	0.00	41.0	14	0.659	1.740
20	PEC275	0.1560	0.5345	17.00	0.00	4.00	8	0.941	1.956
21	PEC276	0.1743	0.7479	19.00	0.00	7.00	7	0.838	1.631
22	PEC277	0.6422E-01	0.4194	7.000	0.00	5.00	3	0.725	0.796
23	PEC278	1.752	12.25	191.0	0.00	151.	14	0.375	0.990
24	PEC279	0.8165	3.366	89.00	0.00	39.0	19	0.724	2.133
25	PEC280	0.4220	1.553	46.00	0.00	14.0	11	0.826	1.981
26	PEC281	0.1193	0.4594	13.00	0.00	4.00	7	0.914	1.778
27	PEC282	1.376	7.147	150.0	0.00	86.0	18	0.587	1.697
28	PEC283	1.495	6.590	163.0	0.00	64.0	20	0.628	1.881
29	PEC284	0.1101	0.4384	12.00	0.00	4.00	6	0.936	1.676
30	PEC285	0.4587	1.535	50.00	0.00	14.0	14	0.835	2.204
31	PEC286	2.844	11.07	310.0	0.00	124.	31	0.654	2.246
32	PEC287	2.550	8.855	278.0	0.00	87.0	31	0.695	2.386
33	PEC288	0.2110	1.252	23.00	0.00	15.0	6	0.651	1.166

AVERAGES: 1.23 4.33 133.8 0.00 43.2 20.6 0.762 2.170

Number of cells in main matrix = 3597

Percent of cells empty = 81.095

Matrix total = 4.4150E+03

Matrix mean = 1.2274E+00

Variance of totals of Sample = 6.7905E+03

S = Richness = number of non-zero elements in row

E = Evenness = H / ln (Richness)

H = Diversity = - sum (Pi*ln(Pi))

where Pi = importance probability in element i (element i relativized by row total)

Summary of 109 Species N= 33 Sample

No.	Name	Mean	Stand.Dev.	Sum	Minimum	Maximum	S
1	Actecana	0.303E+00	0.585E+00	0.1000E+02	0.000E+00	0.200E+01	8
2	Ampevado	0.330E+01	0.509E+01	0.1090E+03	0.000E+00	0.220E+02	18
3	Ampeverr	0.161E+01	0.306E+01	0.5300E+02	0.000E+00	0.140E+02	13
4	Ampharct	0.194E+01	0.278E+01	0.6400E+02	0.000E+00	0.900E+01	17
6	Amphabdi	0.267E+01	0.411E+01	0.8800E+02	0.000E+00	0.160E+02	14
7	Anadtran	0.909E-01	0.292E+00	0.3000E+01	0.000E+00	0.100E+01	3
8	Anomsimp	0.152E+00	0.712E+00	0.5000E+01	0.000E+00	0.400E+01	2
11	Ariccath	0.752E+01	0.118E+02	0.2480E+03	0.000E+00	0.490E+02	16
12	Asabocul	0.303E-01	0.174E+00	0.1000E+01	0.000E+00	0.100E+01	1
13	Asycelon	0.424E+00	0.103E+01	0.1400E+02	0.000E+00	0.500E+01	7
14	Autocorn	0.606E-01	0.242E+00	0.2000E+01	0.000E+00	0.100E+01	2
16	Balaamph	0.112E+01	0.496E+01	0.3700E+02	0.000E+00	0.270E+02	2
17	Batecath	0.109E+01	0.455E+01	0.3600E+02	0.000E+00	0.260E+02	6
18	Bittalte	0.152E+00	0.619E+00	0.5000E+01	0.000E+00	0.300E+01	2
19	Bivasp	0.606E-01	0.242E+00	0.2000E+01	0.000E+00	0.100E+01	2
20	Branclav	0.333E+00	0.890E+00	0.1100E+02	0.000E+00	0.400E+01	6
21	Branwell	0.667E+00	0.157E+01	0.2200E+02	0.000E+00	0.700E+01	8
23	Capisp	0.223E+02	0.238E+02	0.7350E+03	0.000E+00	0.800E+02	29
24	Caprpena	0.182E+00	0.635E+00	0.6000E+01	0.000E+00	0.300E+01	3
25	Caprsp	0.394E+00	0.194E+01	0.1300E+02	0.000E+00	0.110E+02	2
29	Clymzona	0.131E+02	0.272E+02	0.4310E+03	0.000E+00	0.124E+03	24
30	Corbcont	0.303E-01	0.174E+00	0.1000E+01	0.000E+00	0.100E+01	1
31	Corosp	0.606E-01	0.242E+00	0.2000E+01	0.000E+00	0.100E+01	2
32	Cosslong	0.515E+00	0.939E+00	0.1700E+02	0.000E+00	0.300E+01	9
33	Cransept	0.182E+00	0.584E+00	0.6000E+01	0.000E+00	0.300E+01	4
34	Crasmact	0.364E+00	0.994E+00	0.1200E+02	0.000E+00	0.400E+01	5
35	Crepforn	0.788E+00	0.279E+01	0.2600E+02	0.000E+00	0.140E+02	4
37	Cumitell	0.121E+00	0.545E+00	0.4000E+01	0.000E+00	0.300E+01	2
38	Decamega	0.909E-01	0.292E+00	0.3000E+01	0.000E+00	0.100E+01	3

39	Drillong	0.303E-01	0.174E+00	0.1000E+01	0.000E+00	0.100E+01	1
40	Drilmagn	0.303E-01	0.174E+00	0.1000E+01	0.000E+00	0.100E+01	1
42	Elaslevi	0.121E+00	0.545E+00	0.4000E+01	0.000E+00	0.300E+01	2
43	Ensidire	0.145E+01	0.309E+01	0.4800E+02	0.000E+00	0.140E+02	12
44	Ericbras	0.606E-01	0.348E+00	0.2000E+01	0.000E+00	0.200E+01	1
45	Ericsp	0.303E-01	0.174E+00	0.1000E+01	0.000E+00	0.100E+01	1
49	Exogdisp	0.433E+01	0.881E+01	0.1430E+03	0.000E+00	0.310E+02	13
51	Glycamer	0.909E+00	0.947E+00	0.3000E+02	0.000E+00	0.300E+01	21
52	Glycsoli	0.606E-01	0.242E+00	0.2000E+01	0.000E+00	0.100E+01	2
54	Gyptvitt	0.697E+00	0.107E+01	0.2300E+02	0.000E+00	0.400E+01	13
55	Harmimbr	0.424E+00	0.120E+01	0.1400E+02	0.000E+00	0.500E+01	5
56	Harmsp	0.124E+01	0.198E+01	0.4100E+02	0.000E+00	0.700E+01	12
57	Heteform	0.909E-01	0.384E+00	0.3000E+01	0.000E+00	0.200E+01	2
59	Ilyatriv	0.182E+00	0.465E+00	0.6000E+01	0.000E+00	0.200E+01	5
60	Isopsp	0.303E+00	0.883E+00	0.1000E+02	0.000E+00	0.400E+01	4
61	Jassfalc	0.303E-01	0.174E+00	0.1000E+01	0.000E+00	0.100E+01	1
63	Lembsmitt	0.455E+00	0.115E+01	0.1500E+02	0.000E+00	0.500E+01	6
65	Listbarn	0.303E-01	0.174E+00	0.1000E+01	0.000E+00	0.100E+01	1
66	Lucoince	0.212E+00	0.105E+01	0.7000E+01	0.000E+00	0.600E+01	2
67	Lumbfrag	0.485E+00	0.245E+01	0.1600E+02	0.000E+00	0.140E+02	2
69	Lyonhyal	0.188E+01	0.322E+01	0.6200E+02	0.000E+00	0.110E+02	13
70	Lysialba	0.606E-01	0.348E+00	0.2000E+01	0.000E+00	0.200E+01	1
71	Macotent	0.336E+01	0.643E+01	0.1110E+03	0.000E+00	0.320E+02	18
72	Melicris	0.788E+00	0.195E+01	0.2600E+02	0.000E+00	0.800E+01	8
74	Mercmerc	0.909E-01	0.292E+00	0.3000E+01	0.000E+00	0.100E+01	3
76	Minusp	0.667E+01	0.101E+02	0.2200E+03	0.000E+00	0.330E+02	17
82	Nephpict	0.124E+01	0.225E+01	0.4100E+02	0.000E+00	0.900E+01	11
83	Neptinci	0.170E+01	0.193E+01	0.5600E+02	0.000E+00	0.600E+01	20
84	Neregray	0.152E+00	0.364E+00	0.5000E+01	0.000E+00	0.100E+01	5
87	Nicolumnb	0.424E+00	0.185E+01	0.1400E+02	0.000E+00	0.100E+02	2
88	Nucuprox	0.170E+01	0.307E+01	0.5600E+02	0.000E+00	0.120E+02	12
89	Odonfulg	0.848E+00	0.352E+01	0.2800E+02	0.000E+00	0.200E+02	5
90	Oligsp	0.564E+01	0.952E+01	0.1860E+03	0.000E+00	0.390E+02	19
92	Orbinia	0.303E-01	0.174E+00	0.1000E+01	0.000E+00	0.100E+01	1
93	OstrA	0.576E+00	0.265E+01	0.1900E+02	0.000E+00	0.150E+02	3
95	Owenfusi	0.303E-01	0.174E+00	0.1000E+01	0.000E+00	0.100E+01	1
96	Oxyusmit	0.152E+00	0.619E+00	0.5000E+01	0.000E+00	0.300E+01	2
99	Pandgoul	0.303E-01	0.174E+00	0.1000E+01	0.000E+00	0.100E+01	1
100	Panoherb	0.394E+00	0.998E+00	0.1300E+02	0.000E+00	0.500E+01	7
101	Parateni	0.485E+00	0.148E+01	0.1600E+02	0.000E+00	0.700E+01	4
103	Paraspec	0.303E-01	0.174E+00	0.1000E+01	0.000E+00	0.100E+01	1
104	Paraspin	0.818E+00	0.198E+01	0.2700E+02	0.000E+00	0.900E+01	7
105	Paralong	0.152E+01	0.404E+01	0.5000E+02	0.000E+00	0.160E+02	8
106	Pectgoul	0.212E+00	0.485E+00	0.7000E+01	0.000E+00	0.200E+01	6
107	Perilean	0.303E-01	0.174E+00	0.1000E+01	0.000E+00	0.100E+01	1
108	Phylaren	0.606E-01	0.242E+00	0.2000E+01	0.000E+00	0.100E+01	2
109	Pinnixa	0.182E+00	0.465E+00	0.6000E+01	0.000E+00	0.200E+01	5
110	PistCris	0.152E+00	0.712E+00	0.5000E+01	0.000E+00	0.400E+01	2
111	Pistpalm	0.303E+00	0.637E+00	0.1000E+02	0.000E+00	0.200E+01	7
112	Podaobsc	0.303E-01	0.174E+00	0.1000E+01	0.000E+00	0.100E+01	1
114	Poly lign	0.182E+00	0.104E+01	0.6000E+01	0.000E+00	0.600E+01	1
115	Polydora	0.138E+02	0.312E+02	0.4540E+03	0.000E+00	0.151E+03	23
116	Polygord	0.606E-01	0.242E+00	0.2000E+01	0.000E+00	0.100E+01	2
118	Priopinn	0.606E+00	0.154E+01	0.2000E+02	0.000E+00	0.800E+01	8
120	Rudinagl	0.909E-01	0.522E+00	0.3000E+01	0.000E+00	0.300E+01	1
122	Sabevulg	0.606E-01	0.242E+00	0.2000E+01	0.000E+00	0.100E+01	2
123	Sabesp	0.909E-01	0.522E+00	0.3000E+01	0.000E+00	0.300E+01	1
124	Schicaec	0.212E+00	0.485E+00	0.7000E+01	0.000E+00	0.200E+01	6
125	Schirudo	0.303E-01	0.174E+00	0.1000E+01	0.000E+00	0.100E+01	1
126	Scolsqua	0.164E+01	0.420E+01	0.5400E+02	0.000E+00	0.230E+02	14
127	Scolsp	0.121E+00	0.545E+00	0.4000E+01	0.000E+00	0.300E+01	2
132	Sphaerin	0.115E+01	0.362E+01	0.3800E+02	0.000E+00	0.200E+02	7
133	Sphahyst	0.309E+01	0.534E+01	0.1020E+03	0.000E+00	0.180E+02	13
134	Spiosp	0.121E+00	0.485E+00	0.4000E+01	0.000E+00	0.200E+01	2
135	Spioocul	0.121E+00	0.545E+00	0.4000E+01	0.000E+00	0.300E+01	2
136	Spiobomb	0.100E+01	0.287E+01	0.3300E+02	0.000E+00	0.140E+02	7
138	Stenminu	0.455E+00	0.162E+01	0.1500E+02	0.000E+00	0.800E+01	4
139	Stheboa	0.303E-01	0.174E+00	0.1000E+01	0.000E+00	0.100E+01	1
140	Strebene	0.303E-01	0.174E+00	0.1000E+01	0.000E+00	0.100E+01	1
141	Syllseto	0.848E+00	0.162E+01	0.2800E+02	0.000E+00	0.700E+01	11
143	Tanyorbi	0.303E-01	0.174E+00	0.1000E+01	0.000E+00	0.100E+01	1

144	Tellagil	0.103E+01	0.185E+01	0.3400E+02	0.000E+00	0.600E+01	10
145	Teresp	0.303E+00	0.951E+00	0.1000E+02	0.000E+00	0.500E+01	5
146	Tharsp	0.667E+01	0.136E+02	0.2200E+03	0.000E+00	0.590E+02	18
148	Turbelisp	0.909E-01	0.384E+00	0.3000E+01	0.000E+00	0.200E+01	2
149	Turbonsp	0.152E+00	0.442E+00	0.5000E+01	0.000E+00	0.200E+01	4
150	Turrsp	0.303E-01	0.174E+00	0.1000E+01	0.000E+00	0.100E+01	1
151	Uncirro	0.127E+01	0.285E+01	0.4200E+02	0.000E+00	0.120E+02	11
152	Uncisp	0.152E+00	0.566E+00	0.5000E+01	0.000E+00	0.300E+01	3
153	Uroscline	0.303E-01	0.174E+00	0.1000E+01	0.000E+00	0.100E+01	1
<hr/>							
AVERAGES:		0.123E+01	0.245E+01	0.4050E+02	0.000E+00	0.108E+02	6.2

Subgroup: GPecEast

Summary of 15 Sample				N= 106 Species			
No.	Name	Mean	Stand.Dev.	Sum	Minimum	Maximum	S E H`
1	PEC289	3.302	10.07	350.0	0.00	94.0	40 0.705 2.600
2	PEC290	2.462	8.427	261.0	0.00	92.0	37 0.713 2.573
3	PEC291	9.519	34.56	1009.	0.00	378.	48 0.610 2.363
4	PEC292	1.000	4.629	106.0	0.00	37.0	10 0.604 1.392
5	PEC293	4.142	12.67	439.0	0.00	117.	40 0.715 2.639
6	PEC294	3.028	9.157	321.0	0.00	85.0	36 0.739 2.648
7	PEC295	4.868	21.59	516.0	0.00	258.	44 0.579 2.193
8	PEC296	2.453	7.426	260.0	0.00	67.0	33 0.729 2.548
9	PEC297	2.415	6.720	256.0	0.00	64.0	41 0.759 2.819
10	PEC298	2.321	7.115	246.0	0.00	70.0	33 0.743 2.598
11	PEC299	3.047	12.61	323.0	0.00	148.	37 0.628 2.266
12	PEC300	0.9623	4.501	102.0	0.00	45.0	11 0.635 1.524
13	PEC301	0.3962	1.819	42.00	0.00	19.0	6 0.807 1.445
14	PEC302	0.8019	4.355	85.00	0.00	53.0	15 0.577 1.563
15	PEC303	0.5283	2.170	56.00	0.00	23.0	9 0.802 1.762
<hr/>							
AVERAGES:		2.75	9.85	291.5	0.00	103.	29.3 0.690 2.195

Number of cells in main matrix = 1590

Percent of cells empty = 72.327

Matrix total = 4.3720E+03

Matrix mean = 2.7497E+00

Variance of totals of Sample = 5.9155E+04

S = Richness = number of non-zero elements in row

E = Evenness = H / ln (Richness)

H = Diversity = - sum (Pi*ln(Pi))

where Pi = importance probability in element i (element i
relativized by row total)

Summary of 106 Species				N= 15 Sample			
No.	Name	Mean	Stand.Dev.	Sum	Minimum	Maximum	S
1	Actecana	0.400E+00	0.910E+00	0.6000E+01	0.000E+00	0.300E+01	3
2	Ampevado	0.293E+01	0.411E+01	0.4400E+02	0.000E+00	0.130E+02	8
3	Ampeverr	0.800E+00	0.186E+01	0.1200E+02	0.000E+00	0.700E+01	4
4	Ampharct	0.113E+01	0.213E+01	0.1700E+02	0.000E+00	0.800E+01	6
6	Amphabdi	0.247E+01	0.356E+01	0.3700E+02	0.000E+00	0.900E+01	8
7	Anadtran	0.113E+01	0.267E+01	0.1700E+02	0.000E+00	0.100E+02	4
8	Anomsimp	0.800E+00	0.204E+01	0.1200E+02	0.000E+00	0.800E+01	5
11	Ariccath	0.620E+01	0.878E+01	0.9300E+02	0.000E+00	0.250E+02	9
12	Asabocul	0.333E+00	0.617E+00	0.5000E+01	0.000E+00	0.200E+01	4
13	Asycelon	0.200E+01	0.312E+01	0.3000E+02	0.000E+00	0.110E+02	7
16	Balaamp	0.276E+02	0.971E+02	0.4140E+03	0.000E+00	0.378E+03	5
17	Batecatth	0.120E+01	0.240E+01	0.1800E+02	0.000E+00	0.700E+01	4
18	Bittalte	0.233E+01	0.653E+01	0.3500E+02	0.000E+00	0.250E+02	4
20	Branclav	0.667E-01	0.258E+00	0.1000E+01	0.000E+00	0.100E+01	1
21	Branwell	0.233E+01	0.403E+01	0.3500E+02	0.000E+00	0.120E+02	5
23	Capisp	0.627E+02	0.744E+02	0.9410E+03	0.000E+00	0.258E+03	12

24	Caprpena	0.267E+00	0.799E+00	0.4000E+01	0.000E+00	0.300E+01	2
28	Chaeapic	0.667E-01	0.258E+00	0.1000E+01	0.000E+00	0.100E+01	1
29	Clymzona	0.329E+02	0.401E+02	0.4940E+03	0.000E+00	0.108E+03	11
32	Cosslong	0.400E+00	0.106E+01	0.6000E+01	0.000E+00	0.400E+01	3
33	Cransept	0.133E+00	0.352E+00	0.2000E+01	0.000E+00	0.100E+01	2
34	Crasmact	0.333E+00	0.129E+01	0.5000E+01	0.000E+00	0.500E+01	1
35	Crepforn	0.129E+02	0.312E+02	0.1930E+03	0.000E+00	0.940E+02	6
36	Crepplan	0.373E+01	0.128E+02	0.5600E+02	0.000E+00	0.500E+02	4
38	Decamega	0.667E-01	0.258E+00	0.1000E+01	0.000E+00	0.100E+01	1
41	Dyspsayi	0.133E+00	0.352E+00	0.2000E+01	0.000E+00	0.100E+01	2
42	Elaslevi	0.667E-01	0.258E+00	0.1000E+01	0.000E+00	0.100E+01	1
43	Ensidire	0.667E-01	0.258E+00	0.1000E+01	0.000E+00	0.100E+01	1
47	Eumisang	0.200E+00	0.561E+00	0.3000E+01	0.000E+00	0.200E+01	2
48	Euplcaud	0.133E+00	0.516E+00	0.2000E+01	0.000E+00	0.200E+01	1
49	Exogdisp	0.133E+01	0.180E+01	0.2000E+02	0.000E+00	0.600E+01	8
50	Gemmgeom	0.933E+00	0.310E+01	0.1400E+02	0.000E+00	0.120E+02	2
51	Glycamer	0.107E+01	0.799E+00	0.1600E+02	0.000E+00	0.200E+01	11
52	Glycsoli	0.313E+01	0.394E+01	0.4700E+02	0.000E+00	0.100E+02	10
53	Gonigrac	0.667E-01	0.258E+00	0.1000E+01	0.000E+00	0.100E+01	1
54	Gyptvitt	0.600E+00	0.124E+01	0.9000E+01	0.000E+00	0.400E+01	4
55	Harmimbr	0.133E+00	0.352E+00	0.2000E+01	0.000E+00	0.100E+01	2
56	Harmsp	0.867E+00	0.130E+01	0.1300E+02	0.000E+00	0.400E+01	6
57	Heteform	0.333E+00	0.105E+01	0.5000E+01	0.000E+00	0.400E+01	2
58	Hydrdian	0.267E+00	0.594E+00	0.4000E+01	0.000E+00	0.200E+01	3
59	Ilyatriv	0.133E+00	0.516E+00	0.2000E+01	0.000E+00	0.200E+01	1
63	Lembmsmt	0.200E+00	0.775E+00	0.3000E+01	0.000E+00	0.300E+01	1
66	Lucoince	0.667E-01	0.258E+00	0.1000E+01	0.000E+00	0.100E+01	1
69	Lyonhyal	0.173E+01	0.225E+01	0.2600E+02	0.000E+00	0.600E+01	7
71	Macotent	0.367E+01	0.559E+01	0.5500E+02	0.000E+00	0.160E+02	8
72	Melicris	0.367E+01	0.514E+01	0.5500E+02	0.000E+00	0.150E+02	9
73	Meliniti	0.133E+00	0.516E+00	0.2000E+01	0.000E+00	0.200E+01	1
74	Mercmerc	0.100E+01	0.151E+01	0.1500E+02	0.000E+00	0.500E+01	6
75	Micrcsze	0.133E+00	0.352E+00	0.2000E+01	0.000E+00	0.100E+01	2
76	Minusp	0.123E+02	0.186E+02	0.1850E+03	0.000E+00	0.530E+02	9
77	Monosp	0.667E-01	0.258E+00	0.1000E+01	0.000E+00	0.100E+01	1
78	Mulilate	0.667E-01	0.258E+00	0.1000E+01	0.000E+00	0.100E+01	1
80	Natisp	0.667E-01	0.258E+00	0.1000E+01	0.000E+00	0.100E+01	1
82	Nephpict	0.153E+01	0.267E+01	0.2300E+02	0.000E+00	0.100E+02	6
83	Neptinci	0.467E+00	0.640E+00	0.7000E+01	0.000E+00	0.200E+01	6
84	Neregray	0.667E-01	0.258E+00	0.1000E+01	0.000E+00	0.100E+01	1
85	Neresucc	0.380E+01	0.764E+01	0.5700E+02	0.000E+00	0.290E+02	8
86	Nicosp	0.667E-01	0.258E+00	0.1000E+01	0.000E+00	0.100E+01	1
87	Nicolumnb	0.107E+01	0.179E+01	0.1600E+02	0.000E+00	0.600E+01	6
88	Nucuprox	0.880E+01	0.168E+02	0.1320E+03	0.000E+00	0.650E+02	9
89	Odonfulg	0.467E+00	0.106E+01	0.7000E+01	0.000E+00	0.300E+01	3
90	Oligsp	0.162E+02	0.214E+02	0.2430E+03	0.000E+00	0.670E+02	11
93	OstrA	0.380E+01	0.674E+01	0.5700E+02	0.000E+00	0.250E+02	7
94	OstrB	0.467E+00	0.130E+01	0.7000E+01	0.000E+00	0.500E+01	3
95	Owenfusi	0.933E+00	0.158E+01	0.1400E+02	0.000E+00	0.500E+01	6
96	Oxyusmit	0.200E+00	0.414E+00	0.3000E+01	0.000E+00	0.100E+01	3
97	Pagulong	0.267E+00	0.103E+01	0.4000E+01	0.000E+00	0.400E+01	1
99	Pandgoul	0.533E+00	0.990E+00	0.8000E+01	0.000E+00	0.300E+01	4
100	Panoherb	0.533E+00	0.113E+01	0.8000E+01	0.000E+00	0.400E+01	4
101	Parateni	0.133E+00	0.352E+00	0.2000E+01	0.000E+00	0.100E+01	2
104	Paraspin	0.267E+00	0.594E+00	0.4000E+01	0.000E+00	0.200E+01	3
105	Paralong	0.153E+01	0.256E+01	0.2300E+02	0.000E+00	0.800E+01	5
106	Pectgoul	0.100E+01	0.125E+01	0.1500E+02	0.000E+00	0.400E+01	7
109	Pinnixa	0.200E+00	0.561E+00	0.3000E+01	0.000E+00	0.200E+01	2
110	PistCris	0.667E-01	0.258E+00	0.1000E+01	0.000E+00	0.100E+01	1
111	Pistpalm	0.200E+00	0.414E+00	0.3000E+01	0.000E+00	0.100E+01	3
112	Podaobsc	0.333E+00	0.816E+00	0.5000E+01	0.000E+00	0.300E+01	3
114	Polyalign	0.280E+01	0.108E+02	0.4200E+02	0.000E+00	0.420E+02	1
115	Polydora	0.840E+01	0.969E+01	0.1260E+03	0.000E+00	0.310E+02	13
116	Polygord	0.393E+01	0.127E+02	0.5900E+02	0.000E+00	0.490E+02	2
117	Priohette	0.467E+00	0.136E+01	0.7000E+01	0.000E+00	0.500E+01	2
118	Priopinn	0.173E+01	0.425E+01	0.2600E+02	0.000E+00	0.160E+02	4
119	Rictpunc	0.667E-01	0.258E+00	0.1000E+01	0.000E+00	0.100E+01	1
120	Rudinagl	0.140E+01	0.285E+01	0.2100E+02	0.000E+00	0.100E+02	5
121	Sabemicr	0.667E-01	0.258E+00	0.1000E+01	0.000E+00	0.100E+01	1
124	Schicaaec	0.200E+00	0.775E+00	0.3000E+01	0.000E+00	0.300E+01	1
126	Scolsqua	0.800E+00	0.170E+01	0.1200E+02	0.000E+00	0.500E+01	3

127	Scolsp	0.667E+00	0.154E+01	0.1000E+02	0.000E+00	0.600E+01	5
128	Seiladam	0.667E-01	0.258E+00	0.1000E+01	0.000E+00	0.100E+01	1
129	Solelevelu	0.200E+00	0.414E+00	0.3000E+01	0.000E+00	0.100E+01	3
131	Solesp	0.800E+00	0.101E+01	0.1200E+02	0.000E+00	0.300E+01	7
132	Sphaerin	0.400E+01	0.125E+02	0.6000E+02	0.000E+00	0.490E+02	6
133	Sphahyst	0.693E+01	0.105E+02	0.1040E+03	0.000E+00	0.380E+02	9
134	Spiosp	0.133E+00	0.352E+00	0.2000E+01	0.000E+00	0.100E+01	2
135	Spioocul	0.200E+00	0.414E+00	0.3000E+01	0.000E+00	0.100E+01	3
136	Spiobomb	0.133E+00	0.516E+00	0.2000E+01	0.000E+00	0.200E+01	1
141	Syllseto	0.733E+00	0.231E+01	0.1100E+02	0.000E+00	0.900E+01	3
144	Tellagil	0.660E+01	0.803E+01	0.9900E+02	0.000E+00	0.240E+02	10
145	Teresp	0.667E-01	0.258E+00	0.1000E+01	0.000E+00	0.100E+01	1
146	Tharsp	0.753E+01	0.955E+01	0.1130E+03	0.000E+00	0.340E+02	11
148	Turbelssp	0.400E+00	0.155E+01	0.6000E+01	0.000E+00	0.600E+01	1
149	Turbonssp	0.133E+00	0.352E+00	0.2000E+01	0.000E+00	0.100E+01	2
150	Turrsp	0.200E+00	0.414E+00	0.3000E+01	0.000E+00	0.100E+01	3
151	Uncirro	0.173E+01	0.249E+01	0.2600E+02	0.000E+00	0.700E+01	7
152	Uncisp	0.667E-01	0.258E+00	0.1000E+01	0.000E+00	0.100E+01	1
153	Uroscine	0.200E+00	0.561E+00	0.3000E+01	0.000E+00	0.200E+01	2

AVERAGES: 0.275E+01 0.496E+01 0.4125E+02 0.000E+00 0.171E+02 4.2

***** End of Data Summarization *****

***** Output from program SUMMARY *****
 PC-ORD, Version 4.41
 12 Nov 2009, 17:37

Data Summary - All Samples

Compact format data file:

C:\Documents and Settings\Bob\My Documents\Peconics - Phase III Mapping\PC-Ord Analysis\PCOrdDataCompact.txt

Species file:

C:\Documents and Settings\Bob\My Documents\Peconics - Phase III Mapping\PC-Ord Analysis\PC_OrdSpe.txt

Matrix size: 103 Sample (rows)
 153 Species (columns)

Summary of 103 Sample N= 153 Species

No.	Name	Mean	Stand.Dev.	Sum	Minimum	Maximum	S	E	H`
1	PEC201	1.157	8.980	177.0	0.00	102.	7	0.635	1.235
2	PEC202	0.7386	2.564	113.0	0.00	19.0	27	0.851	2.806
3	PEC203	0.2941	2.277	45.00	0.00	27.0	8	0.654	1.361
4	PEC204	0.1176	0.5249	18.00	0.00	4.00	10	0.929	2.139
5	PEC205	0.7908	2.299	121.0	0.00	13.0	28	0.901	3.004
6	PEC206	0.7647	3.640	117.0	0.00	39.0	23	0.777	2.437
7	PEC207	0.6797	3.553	104.0	0.00	42.0	29	0.746	2.513
8	PEC208	0.6863	3.292	105.0	0.00	36.0	29	0.751	2.529
9	PEC209	0.4052	1.865	62.00	0.00	15.0	15	0.819	2.219
10	PEC210	0.8366	3.427	128.0	0.00	30.0	22	0.811	2.505
11	PEC211	0.7124	5.445	109.0	0.00	58.0	6	0.651	1.166
12	PEC212	0.7124	2.999	109.0	0.00	24.0	19	0.834	2.455
13	PEC213	0.6667	4.029	102.0	0.00	37.0	12	0.693	1.722
14	PEC214	0.4444	3.095	68.00	0.00	35.0	10	0.665	1.532
15	PEC215	1.157	4.185	177.0	0.00	35.0	32	0.803	2.784
16	PEC216	1.007	4.885	154.0	0.00	54.0	25	0.751	2.417
17	PEC217	1.301	6.166	199.0	0.00	56.0	34	0.723	2.549
18	PEC218	1.359	5.048	208.0	0.00	37.0	29	0.789	2.658
19	PEC219	2.353	9.847	360.0	0.00	98.0	39	0.742	2.718
20	PEC220	0.8889	3.711	136.0	0.00	39.0	26	0.810	2.640
21	PEC221	0.3595	2.391	55.00	0.00	22.0	5	0.855	1.376
22	PEC222	2.124	8.232	325.0	0.00	63.0	32	0.758	2.627
23	PEC223	0.7647	4.952	117.0	0.00	57.0	12	0.709	1.763
24	PEC224	0.4444	2.949	68.00	0.00	34.0	9	0.747	1.640
25	PEC225	1.464	5.329	224.0	0.00	42.0	30	0.813	2.765
26	PEC226	3.157	15.31	483.0	0.00	133.	33	0.646	2.258
27	PEC227	1.412	5.522	216.0	0.00	42.0	27	0.793	2.614
28	PEC228	1.745	6.138	267.0	0.00	45.0	32	0.807	2.797
29	PEC229	0.3268	0.9989	50.00	0.00	6.00	21	0.939	2.858
30	PEC230	0.2353	1.291	36.00	0.00	13.0	9	0.849	1.865
31	PEC231	1.431	5.897	219.0	0.00	61.0	35	0.772	2.746
32	PEC232	0.4379	2.539	67.00	0.00	28.0	14	0.744	1.963
33	PEC233	0.3268	1.895	50.00	0.00	21.0	13	0.757	1.941
34	PEC234	4.582	42.32	701.0	0.00	521.	26	0.374	1.219
35	PEC235	0.3856	2.068	59.00	0.00	24.0	19	0.775	2.283
36	PEC236	0.5425	2.179	83.00	0.00	15.0	18	0.842	2.435
37	PEC237	0.8954	4.007	137.0	0.00	36.0	17	0.808	2.290
38	PEC238	0.5882E-01	0.2864	9.000	0.00	2.00	7	0.971	1.889
39	PEC239	1.065	6.926	163.0	0.00	82.0	22	0.629	1.944
40	PEC240	0.8170	2.744	125.0	0.00	19.0	34	0.831	2.930
41	PEC241	1.255	5.891	192.0	0.00	57.0	27	0.718	2.367
42	PEC242	0.1634	0.8308	25.00	0.00	8.00	11	0.853	2.044
43	PEC243	0.5294	1.774	81.00	0.00	15.0	25	0.889	2.862
44	PEC244	0.4314	1.852	66.00	0.00	17.0	19	0.826	2.432
45	PEC245	1.366	7.126	209.0	0.00	78.0	22	0.721	2.230
46	PEC246	0.2810	1.707	43.00	0.00	16.0	7	0.819	1.593
47	PEC247	0.8824	3.883	135.0	0.00	39.0	24	0.779	2.476
48	PEC248	1.301	4.672	199.0	0.00	40.0	39	0.804	2.946
49	PEC249	1.882	8.758	288.0	0.00	69.0	27	0.710	2.339

50	PEC250	0.6209	2.562	95.00	0.00	21.0	19	0.827	2.434
51	PEC251	0.5882	1.749	90.00	0.00	14.0	26	0.917	2.989
52	PEC252	1.438	6.773	220.0	0.00	66.0	22	0.746	2.306
53	PEC253	1.163	5.738	178.0	0.00	54.0	17	0.769	2.180
54	PEC254	1.425	7.176	218.0	0.00	77.0	31	0.692	2.375
55	PEC255	1.340	6.422	205.0	0.00	59.0	25	0.717	2.309
56	PEC256	1.203	6.926	184.0	0.00	79.0	31	0.663	2.277
57	PEC257	0.4248	1.559	65.00	0.00	10.0	17	0.895	2.536
58	PEC258	1.582	6.000	242.0	0.00	61.0	34	0.811	2.862
59	PEC259	0.5163	2.621	79.00	0.00	23.0	14	0.772	2.037
60	PEC260	1.399	7.336	214.0	0.00	80.0	32	0.693	2.403
61	PEC261	1.503	5.190	230.0	0.00	49.0	38	0.824	2.999
62	PEC262	1.105	4.258	169.0	0.00	33.0	30	0.790	2.688
63	PEC263	1.444	5.240	221.0	0.00	51.0	34	0.812	2.864
64	PEC264	0.6732	3.284	103.0	0.00	33.0	13	0.827	2.122
65	PEC265	1.183	4.816	181.0	0.00	45.0	32	0.771	2.672
66	PEC266	1.085	6.102	166.0	0.00	61.0	17	0.687	1.946
67	PEC267	0.9869	5.766	151.0	0.00	59.0	11	0.742	1.780
68	PEC268	0.9477	3.837	145.0	0.00	27.0	21	0.815	2.482
69	PEC269	1.118	4.147	171.0	0.00	34.0	32	0.801	2.775
70	PEC270	1.190	4.410	182.0	0.00	45.0	35	0.817	2.905
71	PEC271	1.255	3.891	192.0	0.00	26.0	35	0.847	3.012
72	PEC272	0.8954	3.388	137.0	0.00	28.0	24	0.833	2.647
73	PEC273	0.7516	3.347	115.0	0.00	22.0	21	0.767	2.336
74	PEC274	0.6536	4.154	100.0	0.00	41.0	14	0.659	1.740
75	PEC275	0.1111	0.5326	17.00	0.00	4.00	8	0.941	1.956
76	PEC276	0.1242	0.7462	19.00	0.00	7.00	7	0.838	1.631
77	PEC277	0.4575E-01	0.4190	7.000	0.00	5.00	3	0.725	0.796
78	PEC278	1.248	12.24	191.0	0.00	151.	14	0.375	0.990
79	PEC279	0.5817	3.357	89.00	0.00	39.0	19	0.724	2.133
80	PEC280	0.3007	1.548	46.00	0.00	14.0	11	0.826	1.981
81	PEC281	0.8497E-01	0.4581	13.00	0.00	4.00	7	0.914	1.778
82	PEC282	0.9804	7.136	150.0	0.00	86.0	18	0.587	1.697
83	PEC283	1.065	6.576	163.0	0.00	64.0	20	0.628	1.881
84	PEC284	0.7843E-01	0.4372	12.00	0.00	4.00	6	0.936	1.676
85	PEC285	0.3268	1.530	50.00	0.00	14.0	14	0.835	2.204
86	PEC286	2.026	11.04	310.0	0.00	124.	31	0.654	2.246
87	PEC287	1.817	8.824	278.0	0.00	87.0	31	0.695	2.386
88	PEC288	0.1503	1.250	23.00	0.00	15.0	6	0.651	1.166
89	PEC289	2.288	10.02	350.0	0.00	94.0	40	0.705	2.600
90	PEC290	1.706	8.393	261.0	0.00	92.0	37	0.713	2.573
91	PEC291	6.595	34.44	1009.	0.00	378.	48	0.610	2.363
92	PEC292	0.6928	4.619	106.0	0.00	37.0	10	0.604	1.392
93	PEC293	2.869	12.61	439.0	0.00	117.	40	0.715	2.639
94	PEC294	2.098	9.109	321.0	0.00	85.0	36	0.739	2.648
95	PEC295	3.373	21.54	516.0	0.00	258.	44	0.579	2.193
96	PEC296	1.699	7.387	260.0	0.00	67.0	33	0.729	2.548
97	PEC297	1.673	6.679	256.0	0.00	64.0	41	0.759	2.819
98	PEC298	1.608	7.079	246.0	0.00	70.0	33	0.743	2.598
99	PEC299	2.111	12.58	323.0	0.00	148.	37	0.628	2.266
100	PEC300	0.6667	4.491	102.0	0.00	45.0	11	0.635	1.524
101	PEC301	0.2745	1.815	42.00	0.00	19.0	6	0.807	1.445
102	PEC302	0.5556	4.348	85.00	0.00	53.0	15	0.577	1.563
103	PEC303	0.3660	2.164	56.00	0.00	23.0	9	0.802	1.762

AVERAGES: 1.08 5.46 166.0 0.00 55.1 22.4 0.758 2.233

Number of cells in main matrix = 15759

Percent of cells empty = 85.367

Matrix total = 1.7097E+04

Matrix mean = 1.0849E+00

Variance of totals of Sample = 2.0446E+04

S = Richness = number of non-zero elements in row

E = Evenness = H / ln (Richness)

H = Diversity = - sum (Pi*ln(Pi))

where Pi = importance probability in element i (element i relativized by row total)

Summary of 153 Species N= 103 Sample

No.	Name	Mean	Stand.Dev.	Sum	Minimum	Maximum	S
1	Actecana	0.369E+00	0.852E+00	0.3800E+02	0.000E+00	0.500E+01	22
2	Ampevado	0.458E+01	0.985E+01	0.4720E+03	0.000E+00	0.690E+02	61
3	Ampeverr	0.132E+01	0.342E+01	0.1360E+03	0.000E+00	0.230E+02	28
4	Ampharct	0.186E+01	0.375E+01	0.1920E+03	0.000E+00	0.230E+02	42
5	Amphtdae	0.388E-01	0.239E+00	0.4000E+01	0.000E+00	0.200E+01	3
6	Amphabdi	0.257E+01	0.396E+01	0.2650E+03	0.000E+00	0.160E+02	48
7	Anadtran	0.320E+00	0.121E+01	0.3300E+02	0.000E+00	0.100E+02	12
8	Anomsimp	0.243E+00	0.995E+00	0.2500E+02	0.000E+00	0.800E+01	11
9	Anoplent	0.680E-01	0.321E+00	0.7000E+01	0.000E+00	0.200E+01	5
10	Arabiric	0.971E-02	0.985E-01	0.1000E+01	0.000E+00	0.100E+01	1
11	Ariccath	0.847E+01	0.162E+02	0.8720E+03	0.000E+00	0.820E+02	59
12	Asabocul	0.777E-01	0.303E+00	0.8000E+01	0.000E+00	0.200E+01	7
13	Asycelon	0.718E+00	0.179E+01	0.7400E+02	0.000E+00	0.110E+02	25
14	Autocorn	0.184E+00	0.860E+00	0.1900E+02	0.000E+00	0.500E+01	7
15	Autofasc	0.194E-01	0.139E+00	0.2000E+01	0.000E+00	0.100E+01	2
16	Balaamph	0.612E+01	0.386E+02	0.6300E+03	0.000E+00	0.378E+03	12
17	Batecath	0.259E+01	0.904E+01	0.2670E+03	0.000E+00	0.620E+02	28
18	Bittalte	0.563E+00	0.310E+01	0.5800E+02	0.000E+00	0.250E+02	7
19	Bivasp	0.583E-01	0.308E+00	0.6000E+01	0.000E+00	0.200E+01	4
20	Branclav	0.175E+00	0.568E+00	0.1800E+02	0.000E+00	0.400E+01	13
21	Branwell	0.903E+00	0.221E+01	0.9300E+02	0.000E+00	0.120E+02	25
22	Busycari	0.971E-02	0.985E-01	0.1000E+01	0.000E+00	0.100E+01	1
23	Capisp	0.268E+02	0.379E+02	0.2765E+04	0.000E+00	0.258E+03	85
24	Caprpena	0.117E+00	0.491E+00	0.1200E+02	0.000E+00	0.300E+01	7
25	Caprsp	0.214E+00	0.127E+01	0.2200E+02	0.000E+00	0.110E+02	4
26	Cephsp	0.194E-01	0.139E+00	0.2000E+01	0.000E+00	0.100E+01	2
27	Ceriemer	0.194E-01	0.139E+00	0.2000E+01	0.000E+00	0.100E+01	2
28	Chaeapic	0.291E-01	0.219E+00	0.3000E+01	0.000E+00	0.200E+01	2
29	Clymzona	0.101E+02	0.239E+02	0.1041E+04	0.000E+00	0.124E+03	66
30	Corbcont	0.971E-02	0.985E-01	0.1000E+01	0.000E+00	0.100E+01	1
31	Corosp	0.126E+00	0.518E+00	0.1300E+02	0.000E+00	0.300E+01	7
32	Cosslong	0.883E+00	0.262E+01	0.9100E+02	0.000E+00	0.170E+02	25
33	Cransept	0.971E-01	0.384E+00	0.1000E+02	0.000E+00	0.300E+01	8
34	Crasmact	0.282E+00	0.109E+01	0.2900E+02	0.000E+00	0.800E+01	11
35	Crepforn	0.294E+01	0.129E+02	0.3030E+03	0.000E+00	0.940E+02	18
36	Crepplan	0.544E+00	0.494E+01	0.5600E+02	0.000E+00	0.500E+02	4
37	Cumitell	0.388E-01	0.311E+00	0.4000E+01	0.000E+00	0.300E+01	2
38	Decamega	0.388E-01	0.194E+00	0.4000E+01	0.000E+00	0.100E+01	4
39	Drillong	0.971E-02	0.985E-01	0.1000E+01	0.000E+00	0.100E+01	1
40	Drilmagn	0.971E-02	0.985E-01	0.1000E+01	0.000E+00	0.100E+01	1
41	Dyspsayi	0.388E-01	0.194E+00	0.4000E+01	0.000E+00	0.100E+01	4
42	Elaslevi	0.680E-01	0.350E+00	0.7000E+01	0.000E+00	0.300E+01	5
43	Ensidire	0.660E+00	0.197E+01	0.6800E+02	0.000E+00	0.140E+02	22
44	Erichbras	0.369E+00	0.249E+01	0.3800E+02	0.000E+00	0.250E+02	9
45	Ericsp	0.194E-01	0.139E+00	0.2000E+01	0.000E+00	0.100E+01	2
46	Eteolact	0.194E-01	0.197E+00	0.2000E+01	0.000E+00	0.200E+01	1
47	Eumisang	0.204E+00	0.583E+00	0.2100E+02	0.000E+00	0.300E+01	13
48	Euplcaud	0.194E-01	0.197E+00	0.2000E+01	0.000E+00	0.200E+01	1
49	Exogdisp	0.242E+01	0.581E+01	0.2490E+03	0.000E+00	0.310E+02	39
50	Gemmagemm	0.146E+00	0.120E+01	0.1500E+02	0.000E+00	0.120E+02	3
51	Glycamer	0.748E+00	0.871E+00	0.7700E+02	0.000E+00	0.300E+01	53
52	Glycsoli	0.144E+01	0.315E+01	0.1480E+03	0.000E+00	0.190E+02	34
53	Gonigrac	0.971E-02	0.985E-01	0.1000E+01	0.000E+00	0.100E+01	1
54	Gyptwitt	0.505E+00	0.107E+01	0.5200E+02	0.000E+00	0.600E+01	27
55	Harmimbr	0.330E+00	0.104E+01	0.3400E+02	0.000E+00	0.700E+01	15
56	Harmsp	0.178E+01	0.561E+01	0.1830E+03	0.000E+00	0.540E+02	41
57	Heteform	0.107E+00	0.483E+00	0.1100E+02	0.000E+00	0.400E+01	7
58	Hydrdian	0.485E-01	0.257E+00	0.5000E+01	0.000E+00	0.200E+01	4
59	Ilyatriv	0.146E+00	0.473E+00	0.1500E+02	0.000E+00	0.300E+01	11
60	Isopsp	0.408E+00	0.246E+01	0.4200E+02	0.000E+00	0.240E+02	9
61	Jassfalc	0.194E-01	0.139E+00	0.2000E+01	0.000E+00	0.100E+01	2
62	Laevmort	0.971E-02	0.985E-01	0.1000E+01	0.000E+00	0.100E+01	1
63	Lembsmat	0.631E+00	0.344E+01	0.6500E+02	0.000E+00	0.340E+02	17
64	Libiemar	0.971E-02	0.985E-01	0.1000E+01	0.000E+00	0.100E+01	1
65	Listbarn	0.971E-02	0.985E-01	0.1000E+01	0.000E+00	0.100E+01	1
66	Lucoince	0.204E+00	0.772E+00	0.2100E+02	0.000E+00	0.600E+01	11
67	Lumbfrag	0.155E+00	0.139E+01	0.1600E+02	0.000E+00	0.140E+02	2
68	Lumbtenu	0.650E+00	0.352E+01	0.6700E+02	0.000E+00	0.280E+02	7

69	Lyonhyal	0.251E+01	0.384E+01	0.2590E+03	0.000E+00	0.180E+02	52
70	Lysialba	0.194E-01	0.197E+00	0.2000E+01	0.000E+00	0.200E+01	1
71	Macotent	0.475E+01	0.965E+01	0.4890E+03	0.000E+00	0.610E+02	51
72	Melicris	0.269E+01	0.761E+01	0.2770E+03	0.000E+00	0.450E+02	33
73	Meliniti	0.194E-01	0.197E+00	0.2000E+01	0.000E+00	0.200E+01	1
74	Mercmerc	0.204E+00	0.691E+00	0.2100E+02	0.000E+00	0.500E+01	12
75	Micrscze	0.194E-01	0.139E+00	0.2000E+01	0.000E+00	0.100E+01	2
76	Minusp	0.741E+01	0.121E+02	0.7630E+03	0.000E+00	0.530E+02	56
77	Monosp	0.194E-01	0.139E+00	0.2000E+01	0.000E+00	0.100E+01	2
78	Mulilate	0.388E-01	0.239E+00	0.4000E+01	0.000E+00	0.200E+01	3
79	Mytiedul	0.194E-01	0.197E+00	0.2000E+01	0.000E+00	0.200E+01	1
80	Natisp	0.971E-02	0.985E-01	0.1000E+01	0.000E+00	0.100E+01	1
81	Nemaslp	0.899E+01	0.531E+02	0.9260E+03	0.000E+00	0.521E+03	23
82	Nephpict	0.130E+01	0.221E+01	0.1340E+03	0.000E+00	0.100E+02	40
83	Neptinci	0.137E+01	0.232E+01	0.1410E+03	0.000E+00	0.140E+02	52
84	Neregray	0.165E+00	0.398E+00	0.1700E+02	0.000E+00	0.200E+01	16
85	Neresucc	0.553E+00	0.313E+01	0.5700E+02	0.000E+00	0.290E+02	8
86	Nicosp	0.388E-01	0.239E+00	0.4000E+01	0.000E+00	0.200E+01	3
87	Nicolumb	0.291E+00	0.129E+01	0.3000E+02	0.000E+00	0.100E+02	8
88	Nucuprox	0.229E+01	0.710E+01	0.2360E+03	0.000E+00	0.650E+02	41
89	Odonfulg	0.140E+01	0.541E+01	0.1440E+03	0.000E+00	0.350E+02	20
90	Oligsp	0.627E+01	0.120E+02	0.6460E+03	0.000E+00	0.670E+02	68
91	Ophesp	0.971E-02	0.985E-01	0.1000E+01	0.000E+00	0.100E+01	1
92	Orbinia	0.388E-01	0.194E+00	0.4000E+01	0.000E+00	0.100E+01	4
93	OstrA	0.283E+01	0.757E+01	0.2920E+03	0.000E+00	0.430E+02	32
94	OstrB	0.136E+00	0.852E+00	0.1400E+02	0.000E+00	0.700E+01	4
95	Owenfusi	0.165E+00	0.701E+00	0.1700E+02	0.000E+00	0.500E+01	8
96	Oxyusmit	0.146E+00	0.532E+00	0.1500E+02	0.000E+00	0.300E+01	9
97	Pagulong	0.485E-01	0.405E+00	0.5000E+01	0.000E+00	0.400E+01	2
98	Palapugi	0.971E-02	0.985E-01	0.1000E+01	0.000E+00	0.100E+01	1
99	Pandgoul	0.146E+00	0.493E+00	0.1500E+02	0.000E+00	0.300E+01	10
100	Panoherb	0.398E+00	0.101E+01	0.4100E+02	0.000E+00	0.500E+01	20
101	Parateni	0.417E+00	0.176E+01	0.4300E+02	0.000E+00	0.150E+02	12
102	Paraholm	0.194E-01	0.139E+00	0.2000E+01	0.000E+00	0.100E+01	2
103	Paraspec	0.194E-01	0.139E+00	0.2000E+01	0.000E+00	0.100E+01	2
104	Paraspin	0.806E+00	0.217E+01	0.8300E+02	0.000E+00	0.130E+02	23
105	Paralong	0.123E+01	0.320E+01	0.1270E+03	0.000E+00	0.160E+02	25
106	Pectgoul	0.476E+00	0.979E+00	0.4900E+02	0.000E+00	0.400E+01	26
107	Perilean	0.971E-02	0.985E-01	0.1000E+01	0.000E+00	0.100E+01	1
108	Phylaren	0.485E-01	0.257E+00	0.5000E+01	0.000E+00	0.200E+01	4
109	Pinnixa	0.874E-01	0.346E+00	0.9000E+01	0.000E+00	0.200E+01	7
110	PistCris	0.583E-01	0.416E+00	0.6000E+01	0.000E+00	0.400E+01	3
111	Pistpalm	0.398E+00	0.809E+00	0.4100E+02	0.000E+00	0.500E+01	27
112	Podaobsc	0.184E+00	0.653E+00	0.1900E+02	0.000E+00	0.500E+01	12
113	Policconc	0.583E-01	0.501E+00	0.6000E+01	0.000E+00	0.500E+01	2
114	Polylign	0.874E+00	0.525E+01	0.9000E+02	0.000E+00	0.420E+02	5
115	Polydora	0.840E+01	0.192E+02	0.8650E+03	0.000E+00	0.151E+03	76
116	Polygord	0.602E+00	0.492E+01	0.6200E+02	0.000E+00	0.490E+02	5
117	Priohete	0.107E+00	0.559E+00	0.1100E+02	0.000E+00	0.500E+01	6
118	Priopinn	0.199E+01	0.434E+01	0.2050E+03	0.000E+00	0.180E+02	33
119	Rictpunc	0.194E-01	0.139E+00	0.2000E+01	0.000E+00	0.100E+01	2
120	Rudinagl	0.330E+00	0.126E+01	0.3400E+02	0.000E+00	0.100E+02	12
121	Sabemicr	0.971E-02	0.985E-01	0.1000E+01	0.000E+00	0.100E+01	1
122	Sabevulg	0.680E-01	0.350E+00	0.7000E+01	0.000E+00	0.300E+01	5
123	Sabesp	0.291E-01	0.296E+00	0.3000E+01	0.000E+00	0.300E+01	1
124	Schicaaec	0.117E+00	0.427E+00	0.1200E+02	0.000E+00	0.300E+01	9
125	Schirudo	0.291E-01	0.169E+00	0.3000E+01	0.000E+00	0.100E+01	3
126	Scolsqua	0.185E+01	0.391E+01	0.1910E+03	0.000E+00	0.230E+02	43
127	Scolsp	0.155E+00	0.697E+00	0.1600E+02	0.000E+00	0.600E+01	9
128	Seiladam	0.485E-01	0.293E+00	0.5000E+01	0.000E+00	0.200E+01	3
129	Solevelu	0.291E-01	0.169E+00	0.3000E+01	0.000E+00	0.100E+01	3
130	Soleviri	0.194E-01	0.139E+00	0.2000E+01	0.000E+00	0.100E+01	2
131	Solesp	0.126E+00	0.479E+00	0.1300E+02	0.000E+00	0.300E+01	8
132	Sphaerin	0.142E+01	0.571E+01	0.1460E+03	0.000E+00	0.490E+02	26
133	Sphahyst	0.335E+01	0.672E+01	0.3450E+03	0.000E+00	0.380E+02	49
134	Spiosp	0.874E-01	0.346E+00	0.9000E+01	0.000E+00	0.200E+01	7
135	Spioocul	0.680E-01	0.350E+00	0.7000E+01	0.000E+00	0.300E+01	5
136	Spiobomb	0.845E+00	0.240E+01	0.8700E+02	0.000E+00	0.150E+02	25
137	Spissoli	0.194E-01	0.197E+00	0.2000E+01	0.000E+00	0.200E+01	1
138	Stenminu	0.291E+00	0.130E+01	0.3000E+02	0.000E+00	0.900E+01	10
139	Stheboa	0.291E-01	0.169E+00	0.3000E+01	0.000E+00	0.100E+01	3

140	Strebene	0.291E-01	0.169E+00	0.3000E+01	0.000E+00	0.100E+01	3
141	Syllseto	0.728E+00	0.178E+01	0.7500E+02	0.000E+00	0.900E+01	25
142	Syllgrac	0.777E-01	0.537E+00	0.8000E+01	0.000E+00	0.500E+01	3
143	Tanyorbi	0.291E-01	0.219E+00	0.3000E+01	0.000E+00	0.200E+01	2
144	Tellagil	0.183E+01	0.439E+01	0.1890E+03	0.000E+00	0.240E+02	32
145	Teresp	0.233E+00	0.105E+01	0.2400E+02	0.000E+00	0.900E+01	11
146	Tharsp	0.775E+01	0.157E+02	0.7980E+03	0.000E+00	0.102E+03	67
147	Travcarn	0.971E-02	0.985E-01	0.1000E+01	0.000E+00	0.100E+01	1
148	Turbelisp	0.252E+00	0.127E+01	0.2600E+02	0.000E+00	0.110E+02	8
149	Turbonsp	0.146E+00	0.513E+00	0.1500E+02	0.000E+00	0.400E+01	11
150	Turrsp	0.388E-01	0.194E+00	0.4000E+01	0.000E+00	0.100E+01	4
151	Uncirro	0.854E+00	0.205E+01	0.8800E+02	0.000E+00	0.120E+02	28
152	Uncisp	0.117E+00	0.548E+00	0.1200E+02	0.000E+00	0.400E+01	6
153	Uroscine	0.874E-01	0.373E+00	0.9000E+01	0.000E+00	0.200E+01	6

AVERAGES: 0.108E+01 0.299E+01 0.1117E+03 0.000E+00 0.219E+02 15.1

Data Summary - All Samples

Group: LittlPec Sample unit: PEC201			
Value	Code	Species	Code Name
10.00	167	Amphioplus abditus	Amphabdi
8.00	291	Harmothoe sp	Harmsp
42.00	212	Minuspio sp	Minusp
2.00	63	Pista palmata	Pistpalm
2.00	16	Polydora sp	Polydora
102.00	25	Tharyx sp	Tharsp
11.00	99	Turbellaria sp	Turbelisp

Group: LittlPec Sample unit: PEC202			
Value	Code	Species	Code Name
1.00	167	Amphioplus abditus	Amphabdi
4.00	212	Minuspio sp	Minusp
3.00	16	Polydora sp	Polydora
1.00	25	Tharyx sp	Tharsp
1.00	99	Turbellaria sp	Turbelisp
1.00	177	Acteocina canaliculata	Actecana
3.00	30	Ampelisca vadorum	Ampevado
1.00	204	Anoplodactylus latus	Anoplect
1.00	86	Asabellides oculata	Asabocul
19.00	2	Capitellidae sp	Capisp
5.00	292	Clymenella zonalis	Clymzona
2.00	140	Glycera americana	Glycamer
7.00	238	Glycinde solitaria	Glycsoli
1.00	161	Ilyanassa trivittata	Ilyatriv
7.00	64	Lyonsia hyalina	Lyonhyal
8.00	244	Macoma tenta	Macotent
2.00	160	Melinna cristata	Melicris
12.00	80	Nematoda sp	Nemaspr
5.00	7	Nephtys picta	Nephpict
1.00	1	Oligochaeta sp	Oligsp
4.00	82	Ostracod A	OstrA
1.00	107	Pectinaria gouldii	Pectgoul
17.00	97	Prionospio pinnata	Priopinn
1.00	182	Scolelepis squamata	Scolsqua
2.00	23	Sphaerosyllis hystrix	Sphahyst
2.00	18	Spiophanes bombyx	Spiobomb
1.00	175	Turbonilla sp	Turbonsp

Group: LittlPec

Sample unit: PEC203

Value	Code	Species	Code Name
3.00	167	Amphioplus abditus	Amphabdi
2.00	291	Harmothoe sp	Harmsp
7.00	212	Minuspio sp	Minusp
1.00	63	Pista palmata	Pistpalm
2.00	16	Polydora sp	Polydora
27.00	25	Tharyx sp	Tharsp
2.00	99	Turbellaria sp	Turbelsp
1.00	11	Aricidea catherinae	Ariccath

Group: LittlPec
Sample unit: PEC204

Value	Code	Species	Code Name
3.00	167	Amphioplus abditus	Amphabdi
2.00	291	Harmothoe sp	Harmsp
4.00	212	Minuspio sp	Minusp
1.00	63	Pista palmata	Pistpalm
3.00	25	Tharyx sp	Tharsp
1.00	177	Acteocina canaliculata	Actecana
1.00	2	Capitellidae sp	Capisp
1.00	238	Glycinde solitaria	Glycsoli
1.00	182	Scolelepis squamata	Scolsqua
1.00	145	Gyptis vittata	Gyptvitt

Group: LittlPec
Sample unit: PEC205

Value	Code	Species	Code Name
11.00	167	Amphioplus abditus	Amphabdi
1.00	291	Harmothoe sp	Harmsp
4.00	212	Minuspio sp	Minusp
1.00	63	Pista palmata	Pistpalm
5.00	16	Polydora sp	Polydora
1.00	177	Acteocina canaliculata	Actecana
3.00	30	Ampelisca vadorum	Ampevado
8.00	2	Capitellidae sp	Capisp
9.00	292	Clymenella zonalis	Clymzona
2.00	140	Glycera americana	Glycamer
2.00	238	Glycinde solitaria	Glycsoli
7.00	64	Lyonsia hyalina	Lyonhyal
12.00	244	Macoma tenta	Macotent
4.00	160	Melinna cristata	Melicris
2.00	80	Nematoda sp	Nemasp
6.00	7	Nephtys picta	Nephpiet
3.00	1	Oligochaeta sp	Oligsp
5.00	82	Ostracod A	OstrA
10.00	97	Prionospio pinnata	Priopinn
13.00	182	Scolelepis squamata	Scolsqua
2.00	23	Sphaerosyllis hystrix	Sphahyst
2.00	18	Spiophanes bombyx	Spiobomb
2.00	11	Aricidea catherinae	Ariccath
1.00	143	Ampharete arctica	Ampharct
2.00	137	Mulinia lateralis	Mulilate
1.00	298	Nereis grayi	Neregray
1.00	146	Orbinia sp	Orbinia
1.00	172	Solen viridis	Solevir

Group: LittlPec
Sample unit: PEC206

Value	Code	Species	Code Name

1.00	212	Minuspio sp	Minusp
6.00	16	Polydora sp	Polydora
7.00	30	Ampelisca vadorum	Ampevado
39.00	2	Capitellidae sp	Capisp
3.00	292	Clymenella zonalis	Clymzona
1.00	140	Glycera americana	Glycamer
2.00	238	Glycinde solitaria	Glycsoli
4.00	64	Lyonsia hyalina	Lyonhyal
4.00	244	Macoma tenta	Macotent
7.00	80	Nematoda sp	Nemaspr
3.00	7	Nephtys picta	Nephpict
3.00	1	Oligochaeta sp	Oligsp
3.00	82	Ostracod A	OstrA
18.00	97	Prionospio pinnata	Priopinn
2.00	182	Scolelepis squamata	Scolsqua
1.00	18	Spiophanes bombyx	Spiobomb
1.00	11	Aricidea catheriniae	Ariccath
6.00	145	Gyptis vittata	Gyptvitt
2.00	143	Ampharete arctica	Ampharct
1.00	210	Nephtys incisa	Neptinci
1.00	132	Nicolea sp	Nicosp
1.00	66	Nucula proxima	Nucuprox
1.00	209	Rictaxis punctostriatus	Rictpunc

Group: LittlPec
 Sample unit: PEC207

Value	Code	Species	Code Name
1.00	212	Minuspio sp	Minusp
9.00	16	Polydora sp	Polydora
4.00	25	Tharyx sp	Tharsp
2.00	30	Ampelisca vadorum	Ampevado
42.00	2	Capitellidae sp	Capisp
2.00	140	Glycera americana	Glycamer
5.00	238	Glycinde solitaria	Glycsoli
1.00	244	Macoma tenta	Macotent
4.00	7	Nephtys picta	Nephpict
2.00	82	Ostracod A	OstrA
1.00	107	Pectinaria gouldii	Pectgoul
2.00	97	Prionospio pinnata	Priopinn
2.00	23	Sphaerosyllis hystrix	Sphahyst
1.00	11	Aricidea catheriniae	Ariccath
2.00	145	Gyptis vittata	Gyptvitt
1.00	143	Ampharete arctica	Ampharct
1.00	66	Nucula proxima	Nucuprox
1.00	62	Anadara transversa	Anadtran
1.00	119	Autolytus cornutus	Autocorn
3.00	46	Batea catharinensis	Batecath
2.00	85	Corophium sp	Corosp
2.00	13	Eumida sanguinea	Eumisang
1.00	20	Exogone dispar	Exogdisp
1.00	138	Isopoda sp	Isopsp
1.00	283	Monoculodes sp	Monosp
5.00	4	Odontosyllis fulgorans	Odonfulg
1.00	123	Podarke obscura	Podaobsc
3.00	270	Sabellaria vulgaris	Sabevulg
1.00	22	Sphaerosyllis erinaceus	Sphaerin

Group: LittlPec
 Sample unit: PEC208

Value	Code	Species	Code Name
1.00	291	Harmothoe sp	Harmsp
14.00	16	Polydora sp	Polydora
1.00	25	Tharyx sp	Tharsp
1.00	30	Ampelisca vadorum	Ampevado
36.00	2	Capitellidae sp	Capisp

4.00	238	Glycinde solitaria	Glycsoli
1.00	64	Lyonsia hyalina	Lyonhyal
1.00	244	Macoma tenta	Macotent
1.00	80	Nematoda sp	Nemasp
2.00	7	Nephtys picta	Nephpict
3.00	1	Oligochaeta sp	Oligsp
2.00	82	Ostracod A	OstrA
4.00	107	Pectinaria gouldii	Pectgoul
11.00	97	Prionospio pinnata	Priopinn
1.00	23	Sphaerosyllis hystrix	Sphahyst
2.00	145	Gyptis vittata	Gyptvitt
2.00	143	Ampharete arctica	Ampharct
1.00	298	Nereis grayi	Neregray
1.00	146	Orbinia sp	Orbinia
2.00	210	Neptys incisa	Neptinci
1.00	13	Eumida sanguinea	Eumisang
5.00	4	Odontosyllis fulgorans	Odonfulg
1.00	123	Podarke obscura	Podaobsc
1.00	270	Sabellaria vulgaris	Sabevulg
2.00	22	Sphaerosyllis erinaceus	Sphaerin
1.00	234	Cossura longocirrata	Cosslong
1.00	39	Erichthonius sp	Ericsp
1.00	303	Palaemonetes pugio	Palapugi
1.00	166	Streblospio benedicti	Strebene

Group: LittlPec
Sample unit: PEC209

Value	Code	Species	Code Name
5.00	167	Amphioplus abditus	Amphabdi
3.00	291	Harmothoe sp	Harmsp
10.00	212	Minuspio sp	Minusp
1.00	63	Pista palmata	Pistpalm
6.00	16	Polydora sp	Polydora
12.00	25	Tharyx sp	Tharsp
1.00	2	Capitellidae sp	Capisp
1.00	64	Lyonsia hyalina	Lyonhyal
1.00	244	Macoma tenta	Macotent
15.00	80	Nematoda sp	Nemasp
1.00	1	Oligochaeta sp	Oligsp
1.00	182	Scolelepis squamata	Scolsqua
2.00	11	Aricidea catheriniae	Ariccath
1.00	210	Neptys incisa	Neptinci
2.00	111	Erichthonius brasiliensis	Ericbras

Group: LittlPec
Sample unit: PEC210

Value	Code	Species	Code Name
2.00	212	Minuspio sp	Minusp
1.00	63	Pista palmata	Pistpalm
12.00	16	Polydora sp	Polydora
1.00	30	Ampelisca vadorum	Ampevado
30.00	2	Capitellidae sp	Capisp
1.00	292	Clymenella zonalis	Clymzona
1.00	238	Glycinde solitaria	Glycsoli
4.00	64	Lyonsia hyalina	Lyonhyal
8.00	244	Macoma tenta	Macotent
9.00	1	Oligochaeta sp	Oligsp
5.00	97	Prionospio pinnata	Priopinn
10.00	182	Scolelepis squamata	Scolsqua
1.00	23	Sphaerosyllis hystrix	Sphahyst
2.00	210	Neptys incisa	Neptinci
1.00	66	Nucula proxima	Nucuprox
21.00	46	Batea catharinensis	Batecath
2.00	13	Eumida sanguinea	Eumisang
6.00	234	Cossura longocirrata	Cosslong

1.00	111	Erichthonius brasiliensis	Ericbras
1.00	118	Ampharetidae sp	Amphtdae
1.00	33	Lembos smithi	Lembsmit
8.00	205	Polydora ligni	Polylign

Group: LittlPec
Sample unit: PEC211

Value	Code	Species	Code Name
7.00	167	Amphioplus abditus	Amphabdi
9.00	291	Harmothoe sp	Harmsp
33.00	212	Minuspio sp	Minusp
1.00	63	Pista palmata	Pistpalm
1.00	16	Polydora sp	Polydora
58.00	25	Tharyx sp	Tharsp

Group: LittlPec
Sample unit: PEC212

Value	Code	Species	Code Name
1.00	212	Minuspio sp	Minusp
8.00	16	Polydora sp	Polydora
3.00	25	Tharyx sp	Tharsp
5.00	177	Acteocina canaliculata	Actecana
23.00	2	Capitellidae sp	Capisp
5.00	238	Glycinde solitaria	Glycsoli
9.00	244	Macoma tenta	Macotent
8.00	80	Nematoda sp	Nemasp
2.00	1	Oligochaeta sp	Oligsp
24.00	82	Ostracod A	OstrA
3.00	97	Prionospio pinnata	Priopinn
4.00	182	Scolelepis squamata	Scolsqua
1.00	23	Sphaerosyllis hystrix	Sphahyst
2.00	11	Aricidea catheriniae	Ariccath
3.00	210	Neptys incisa	Neptinci
1.00	46	Batea catharinensis	Batecath
5.00	234	Cossura longocirrata	Cosslong
1.00	36	Luconacia incerta	Lucoince
1.00	51	Pandora gouldiana	Pandgoul

Group: LittlPec
Sample unit: PEC213

Value	Code	Species	Code Name
13.00	167	Amphioplus abditus	Amphabdi
7.00	291	Harmothoe sp	Harmsp
30.00	212	Minuspio sp	Minusp
2.00	63	Pista palmata	Pistpalm
6.00	16	Polydora sp	Polydora
37.00	25	Tharyx sp	Tharsp
1.00	238	Glycinde solitaria	Glycsoli
1.00	64	Lyonsia hyalina	Lyonhyal
1.00	160	Melinna cristata	Melicris
1.00	82	Ostracod A	OstrA
2.00	11	Aricidea catheriniae	Ariccath
1.00	210	Neptys incisa	Neptinci

Group: LittlPec
Sample unit: PEC214

Value	Code	Species	Code Name
13.00	167	Amphioplus abditus	Amphabdi
8.00	291	Harmothoe sp	Harmsp

35.00	212	Minuspio sp	Minusp
1.00	63	Pista palmata	Pistpalm
2.00	16	Polydora sp	Polydora
4.00	25	Tharyx sp	Tharsp
1.00	99	Turbellaria sp	Turbelisp
2.00	2	Capitellidae sp	Capisp
1.00	140	Glycera americana	Glycamer
1.00	182	Scolelepis squamata	Scolsqua

Group: LittlPec
Sample unit: PEC215

Value	Code	Species	Code Name
15.00	167	Amphioplus abditus	Amphabdi
1.00	291	Harmothoe sp	Harmsp
23.00	212	Minuspio sp	Minusp
1.00	63	Pista palmata	Pistpalm
2.00	16	Polydora sp	Polydora
1.00	25	Tharyx sp	Tharsp
3.00	177	Acteocina canaliculata	Actecana
2.00	30	Ampelisca vadorum	Ampevado
1.00	204	Anoplodactylus latus	Anoplent
35.00	2	Capitellidae sp	Capisp
3.00	238	Glycinde solitaria	Glycsoli
1.00	64	Lyonsia hyalina	Lyonhyal
14.00	244	Macoma tenta	Macotent
5.00	160	Melinna cristata	Melicris
6.00	80	Nematoda sp	Nemasp
1.00	7	Nephtys picta	Nephpict
8.00	1	Oligochaeta sp	Oligsp
8.00	82	Ostracod A	OstrA
1.00	107	Pectinaria gouldii	Pectgoul
5.00	97	Prionospio pinnata	Priopinn
18.00	182	Scolelepis squamata	Scolsqua
3.00	23	Sphaerosyllis hystrix	Sphahyst
1.00	210	Nephtys incisa	Neptinci
1.00	46	Batea catharinensis	Batecath
1.00	123	Podarke obscura	Podaobsc
10.00	234	Cossura longocirrata	Cosslong
2.00	111	Erichthonius brasiliensis	Ericbras
1.00	33	Lembos smithi	Lembsmit
1.00	153	Asychis elongata	Asycelon
1.00	41	Elasmopus levius	Elaslevi
1.00	50	Oxyurostylis smithi	Oxyusmit
1.00	53	Panopeus herbstii	Panoherb

Group: LittlPec
Sample unit: PEC216

Value	Code	Species	Code Name
3.00	167	Amphioplus abditus	Amphabdi
9.00	16	Polydora sp	Polydora
1.00	25	Tharyx sp	Tharsp
1.00	86	Asabellides oculata	Asabocul
54.00	2	Capitellidae sp	Capisp
2.00	292	Clymenella zonalis	Clymzona
1.00	140	Glycera americana	Glycamer
11.00	238	Glycinde solitaria	Glycsoli
10.00	64	Lyonsia hyalina	Lyonhyal
14.00	244	Macoma tenta	Macotent
3.00	80	Nematoda sp	Nemasp
8.00	1	Oligochaeta sp	Oligsp
1.00	82	Ostracod A	OstrA
4.00	107	Pectinaria gouldii	Pectgoul
15.00	97	Prionospio pinnata	Priopinn
2.00	182	Scolelepis squamata	Scolsqua
4.00	23	Sphaerosyllis hystrix	Sphahyst

2.00	11	Aricidea catherinae	Ariccath
1.00	210	Neptys incisa	Neptinci
2.00	20	Exogone dispar	Exogdisp
2.00	4	Odontosyllis fulgurans	Odonfulg
1.00	22	Sphaerosyllis erinaceus	Sphaerin
1.00	234	Cossura longocirrata	Cosslong
1.00	51	Pandora gouldiana	Pandgoul
1.00	153	Asychis elongata	Asycelon

Group: LittlPec
Sample unit: PEC217

Value	Code	Species	Code Name
1.00	167	Amphioplus abditus	Amphabdi
3.00	212	Minuspio sp	Minusp
56.00	16	Polydora sp	Polydora
1.00	25	Tharyx sp	Tharsp
1.00	30	Ampelisca vadorum	Ampevado
49.00	2	Capitellidae sp	Capisp
5.00	238	Glycinde solitaria	Glycsoli
8.00	64	Lyonsia hyalina	Lyonhyal
4.00	244	Macoma tenta	Macotent
1.00	1	Oligochaeta sp	Oligsp
4.00	82	Ostracod A	OstrA
4.00	107	Pectinaria gouldii	Pectgoul
13.00	97	Prionospio pinnata	Priopinn
3.00	182	Scolelepis squamata	Scolsqua
1.00	23	Sphaerosyllis hystrix	Sphahyst
2.00	11	Aricidea catherinae	Ariccath
2.00	143	Ampharete arctica	Ampharct
2.00	210	Neptys incisa	Neptinci
2.00	132	Nicolea sp	Nicosp
1.00	119	Autolytus cornutus	Autocorn
9.00	46	Batea catharinensis	Batecath
1.00	13	Eumida sanguinea	Eumisang
3.00	20	Exogone dispar	Exogdisp
3.00	4	Odontosyllis fulgurans	Odonfulg
2.00	123	Podarke obscura	Podaobsc
1.00	22	Sphaerosyllis erinaceus	Sphaerin
2.00	234	Cossura longocirrata	Cosslong
1.00	111	Erichthonius brasiliensis	Ericbras
5.00	33	Lembos smithi	Lembsmit
1.00	36	Luconacia incerta	Lucoince
2.00	51	Pandora gouldiana	Pandgoul
2.00	53	Panopeus herbstii	Panoherb
1.00	189	Brania clavata	Branclav
3.00	37	Paracaprella tenius	Parateni

Group: LittlPec
Sample unit: PEC218

Value	Code	Species	Code Name
3.00	63	Pista palmata	Pistpalm
18.00	16	Polydora sp	Polydora
2.00	30	Ampelisca vadorum	Ampevado
27.00	2	Capitellidae sp	Capisp
1.00	292	Clymenella zonalis	Clymzona
19.00	238	Glycinde solitaria	Glycsoli
10.00	64	Lyonsia hyalina	Lyonhyal
5.00	244	Macoma tenta	Macotent
3.00	160	Melinna cristata	Melicris
37.00	80	Nematoda sp	Nemasp
3.00	7	Nephtys picta	Nephpict
1.00	107	Pectinaria gouldii	Pectgoul
18.00	97	Prionospio pinnata	Priopinn
1.00	182	Scolelepis squamata	Scolsqua
3.00	23	Sphaerosyllis hystrix	Sphahyst

1.00	11	Aricidea catherinae	Ariccath
3.00	145	Gyptis vittata	Gyptvitt
1.00	146	Orbinia sp	Orbinia
1.00	210	Neptyhs incisa	Neptinci
3.00	46	Batea catharinensis	Batecath
1.00	4	Odontosyllis fulgurans	Odonfulg
1.00	123	Podarke obscura	Podaobsc
1.00	234	Cossura longocirrata	Cosslong
25.00	111	Erichthonius brasiliensis	Ericbras
1.00	118	Ampharetidae sp	Amphtdae
2.00	36	Luconacia incerta	Lucoince
1.00	189	Brania clavata	Branclav
15.00	37	Paracaprella tenius	Parateni
1.00	96	Paraphoxus spinosus	Paraspin

Group: LittlPec
Sample unit: PEC219

Value	Code	Species	Code Name
1.00	291	Harmothoe sp	Harmsp
10.00	16	Polydora sp	Polydora
9.00	25	Tharyx sp	Tharsp
6.00	30	Ampelisca vadorum	Ampevado
98.00	2	Capitellidae sp	Capisp
5.00	292	Clymenella zonalis	Clymzona
12.00	238	Glycinde solitaria	Glycsoli
8.00	64	Lyonsia hyalina	Lyonhyal
6.00	80	Nematoda sp	Nemasp
5.00	7	Nephtys picta	Nephpict
3.00	1	Oligochaeta sp	Oligsp
13.00	23	Sphaerosyllis hystrix	Sphahyst
1.00	18	Spiophanes bombyx	Spiobomb
6.00	11	Aricidea catherinae	Ariccath
1.00	143	Ampharete arctica	Ampharct
1.00	210	Neptyhs incisa	Neptinci
2.00	66	Nucula proxima	Nucuprox
4.00	62	Anadara transversa	Anadtran
5.00	119	Autolytus cornutus	Autocorn
52.00	46	Batea catharinensis	Batecath
3.00	85	Corophium sp	Corosp
2.00	13	Eumida sanguinea	Eumisang
2.00	20	Exogone dispar	Exogdisp
33.00	4	Odontosyllis fulgurans	Odonfulg
5.00	123	Podarke obscura	Podaobsc
1.00	270	Sabellaria vulgaris	Sabevulg
4.00	22	Sphaerosyllis erinaceus	Sphaerin
34.00	33	Lembos smithi	Lembsmit
1.00	36	Luconacia incerta	Lucoince
1.00	53	Panopeus herbstii	Panoherb
4.00	37	Paracaprella tenius	Parateni
13.00	96	Paraphoxus spinosus	Paraspin
1.00	75	Crepidula fornicata	Crepforn
2.00	133	Eteone lactea	Eteolact
1.00	55	Heteromyysis formosa	Heteform
1.00	5	Lumbrineris tenuis	Lumbtenu
1.00	21	Parapionosyllis longicirrata	Paralong
1.00	135	Schistomerings rudolphi	Schirudo
2.00	121	Stenothoe minuta	Stenminu

Group: LittlPec
Sample unit: PEC220

Value	Code	Species	Code Name
1.00	212	Minuspio sp	Minusp
1.00	63	Pista palmata	Pistpalm
2.00	16	Polydora sp	Polydora
11.00	25	Tharyx sp	Tharsp

3.00	30	Ampelisca vadorum	Ampevado
39.00	2	Capitellidae sp	Capisp
3.00	292	Clymenella zonalis	Clymzona
1.00	140	Glycera americana	Glycamer
3.00	238	Glycinde solitaria	Glycsoli
10.00	64	Lyonsia hyalina	Lyonhyal
11.00	244	Macoma tenta	Macotent
1.00	160	Melinna cristata	Melicris
12.00	80	Nematoda sp	Nemasp
9.00	7	Nephtys picta	Nephpict
3.00	1	Oligochaeta sp	Oligsp
3.00	82	Ostracod A	OstrA
1.00	107	Pectinaria gouldii	Pectgoul
5.00	97	Prionospio pinnata	Priopinn
5.00	23	Sphaerosyllis hystrix	Sphahyst
2.00	11	Aricidea catherinae	Ariccath
2.00	210	Neptys incisa	Neptinci
2.00	46	Batea catharinensis	Batecath
2.00	13	Eumida sanguinea	Eumisang
1.00	123	Podarke obscura	Podaobsc
2.00	234	Cossura longocirrata	Cosslong
1.00	33	Lembos smithi	Lembsmit

Group: LittlPec
Sample unit: PEC221

Value	Code	Species	Code Name
4.00	167	Amphioplus abditus	Amphabdi
4.00	291	Harmothoe sp	Harmsp
18.00	212	Minuspio sp	Minusp
7.00	16	Polydora sp	Polydora
22.00	25	Tharyx sp	Tharsp

Group: LittlPec
Sample unit: PEC222

Value	Code	Species	Code Name
3.00	167	Amphioplus abditus	Amphabdi
4.00	25	Tharyx sp	Tharsp
1.00	177	Acteocina canaliculata	Actecana
3.00	30	Ampelisca vadorum	Ampevado
63.00	2	Capitellidae sp	Capisp
7.00	292	Clymenella zonalis	Clymzona
1.00	238	Glycinde solitaria	Glycsoli
1.00	161	Ilyanassa trivittata	Ilyatriv
16.00	64	Lyonsia hyalina	Lyonhyal
44.00	244	Macoma tenta	Macotent
7.00	160	Melinna cristata	Melicris
42.00	80	Nematoda sp	Nemasp
1.00	7	Nephtys picta	Nephpict
7.00	1	Oligochaeta sp	Oligsp
43.00	82	Ostracod A	OstrA
2.00	107	Pectinaria gouldii	Pectgoul
1.00	97	Prionospio pinnata	Priopinn
12.00	182	Scolelepis squamata	Scolsqua
14.00	23	Sphaerosyllis hystrix	Sphahyst
1.00	18	Spiophanes bombyx	Spiobomb
19.00	11	Aricidea catherinae	Ariccath
1.00	137	Mulinia lateralis	Mulilate
1.00	298	Nereis grayi	Neregray
4.00	210	Neptys incisa	Neptinci
1.00	123	Podarke obscura	Podaobsc
17.00	234	Cossura longocirrata	Cosslong
1.00	51	Pandora gouldiana	Pandgoul
2.00	153	Asychis elongata	Asycelon
1.00	19	Brania wellfleetensis	Branwell
1.00	180	Cephalaspidea sp	Cephsp

1.00	70	Mercenaria mercenaria	Mercmerc
3.00	110	Syllides setosa	Syllseto

Group: LittlPec
Sample unit: PEC223

Value	Code	Species	Code Name
12.00	167	Amphioplus abditus	Amphabdi
7.00	291	Harmothoe sp	Harmsp
17.00	212	Minuspio sp	Minusp
2.00	63	Pista palmata	Pistpalm
4.00	16	Polydora sp	Polydora
57.00	25	Tharyx sp	Tharsp
2.00	2	Capitellidae sp	Capisp
1.00	244	Macoma tenta	Macotent
5.00	80	Nematoda sp	Nemasp
4.00	97	Prionospio pinnata	Priopinn
4.00	182	Scolelepis squamata	Scolsqua
2.00	11	Aricidea catherinae	Ariccath

Group: LittlPec
Sample unit: PEC224

Value	Code	Species	Code Name
7.00	167	Amphioplus abditus	Amphabdi
4.00	291	Harmothoe sp	Harmsp
8.00	212	Minuspio sp	Minusp
2.00	16	Polydora sp	Polydora
34.00	25	Tharyx sp	Tharsp
7.00	80	Nematoda sp	Nemasp
3.00	182	Scolelepis squamata	Scolsqua
2.00	210	Neptys incisa	Neptinci
1.00	234	Cossura longocirrata	Cosslong

Group: LittlPec
Sample unit: PEC225

Value	Code	Species	Code Name
1.00	212	Minuspio sp	Minusp
2.00	63	Pista palmata	Pistpalm
10.00	16	Polydora sp	Polydora
8.00	25	Tharyx sp	Tharsp
4.00	30	Ampelisca vadorum	Ampevado
2.00	204	Anoplodactylus latus	Anoplent
19.00	2	Capitellidae sp	Capisp
3.00	292	Clymenella zonalis	Clymzona
1.00	140	Glycera americana	Glycamer
1.00	238	Glycinde solitaria	Glycsoli
5.00	64	Lyonsia hyalina	Lyonhyal
5.00	244	Macoma tenta	Macotent
27.00	160	Melinna cristata	Melicris
33.00	80	Nematoda sp	Nemasp
2.00	1	Oligochaeta sp	Oligsp
42.00	82	Ostracod A	OstrA
10.00	182	Scolelepis squamata	Scolsqua
5.00	23	Sphaerosyllis hystrix	Sphahyst
3.00	18	Spiophanes bombyx	Spiobomb
8.00	11	Aricidea catherinae	Ariccath
4.00	143	Ampharete arctica	Ampharct
1.00	20	Exogone dispar	Exogdisp
1.00	22	Sphaerosyllis erinaceus	Sphaerin
1.00	153	Asychis elongata	Asycelon
13.00	5	Lumbrineris tenuis	Lumbtenu
7.00	110	Syllides setosa	Syllseto
1.00	32	Ampelisca verrilli	Ampeverr

1.00	68	Ensis directus	Ensidiere
1.00	131	Prionospio heterobranchia	Priohete
3.00	105	Rudilemboides naglei	Rudinagl

Group: LittlPec
Sample unit: PEC226

Value	Code	Species	Code Name
2.00	16	Polydora sp	Polydora
2.00	25	Tharyx sp	Tharsp
77.00	2	Capitellidae sp	Capisp
3.00	292	Clymenella zonalis	Clymzona
2.00	238	Glycinde solitaria	Glycsoli
2.00	64	Lyonsia hyalina	Lyonhyal
3.00	244	Macoma tenta	Macotent
3.00	160	Melinna cristata	Melicris
133.00	80	Nematoda sp	Nemaspr
2.00	82	Ostracod A	OstrA
1.00	182	Scolelepis squamata	Scolsqua
4.00	23	Sphaerosyllis hystrix	Sphahyst
11.00	11	Aricidea catherinae	Ariccath
6.00	66	Nucula proxima	Nucuprox
62.00	46	Batea catharinensis	Batecath
5.00	20	Exogone dispar	Exogdisp
1.00	33	Lembos smithi	Lembsmit
1.00	50	Oxyurostylis smithi	Oxyusmit
1.00	53	Panopeus herbstii	Panoherb
1.00	37	Paracaprella tenius	Parateni
31.00	75	Crepidula fornicate	Crepforn
1.00	131	Prionospio heterobranchia	Priohete
2.00	105	Rudilemboides naglei	Rudinagl
2.00	61	Anomia simplex	Anomsimp
90.00	289	Balanus amphitrite	Balaamph
18.00	295	Bittium alternatum	Bittalte
1.00	71	Gemma gemma	Gemmagemm
1.00	168	Hydroides dianthus	Hydrdian
1.00	57	Libinia emarginata	Libiemar
7.00	83	Ostracod B	OstrB
2.00	74	Seila adamsi	Seiladam
3.00	69	Tellina agilis	Tellagil
2.00	294	Urosalpinx cinerea	Uroscine

Group: LittlPec
Sample unit: PEC227

Value	Code	Species	Code Name
5.00	167	Amphioplus abditus	Amphabdi
3.00	25	Tharyx sp	Tharsp
5.00	30	Ampelisca vadorum	Ampevado
2.00	204	Anoplodactylus lensus	Anoplent
5.00	2	Capitellidae sp	Capisp
2.00	292	Clymenella zonalis	Clymzona
2.00	140	Glycera americana	Glycamer
4.00	238	Glycinde solitaria	Glycsoli
9.00	64	Lyonsia hyalina	Lyonhyal
42.00	244	Macoma tenta	Macotent
25.00	160	Melinna cristata	Melicris
5.00	80	Nematoda sp	Nemaspr
1.00	7	Nephtys picta	Nephpict
2.00	1	Oligochaeta sp	Oligsp
21.00	82	Ostracod A	OstrA
2.00	107	Pectinaria gouldii	Pectgoul
1.00	97	Prionospio pinnata	Priopinn
5.00	182	Scolelepis squamata	Scolsqua
5.00	23	Sphaerosyllis hystrix	Sphahyst
1.00	18	Spiophanes bombyx	Spiobomb
4.00	11	Aricidea catherinae	Ariccath

2.00	210	Neptys incisa	Neptinci
1.00	66	Nucula proxima	Nucuprox
1.00	46	Batea catharinensis	Batecath
32.00	205	Polydora ligni	Polylign
28.00	5	Lumbrineris tenuis	Lumbtenu
1.00	310	Solenidae sp	Solesp

Group: LittlPec
Sample unit: PEC228

Value	Code	Species	Code Name
1.00	167	Amphioplus abditus	Amphabdi
4.00	212	Minuspio sp	Minusp
14.00	16	Polydora sp	Polydora
3.00	25	Tharyx sp	Tharsp
2.00	177	Acteocina canaliculata	Actecana
1.00	204	Anoplodactylus latus	Anoplent
16.00	2	Capitellidae sp	Capisp
4.00	292	Clymenella zonalis	Clymzona
1.00	140	Glycera americana	Glycamer
5.00	238	Glycinde solitaria	Glycsoli
2.00	64	Lyonsia hyalina	Lyonhyal
19.00	244	Macoma tenta	Macotent
45.00	160	Melinna cristata	Melicris
42.00	80	Nematoda sp	Nemasp
1.00	7	Nephtys picta	Nephpict
6.00	1	Oligochaeta sp	Oligsp
24.00	82	Ostracod A	OstrA
1.00	107	Pectinaria gouldii	Pectgoul
14.00	97	Prionospio pinnata	Priopinn
2.00	182	Scolelepis squamata	Scolsqua
16.00	23	Sphaerosyllis hystrix	Sphahyst
3.00	18	Spiophanes bombyx	Spiobomb
1.00	175	Turbonilla sp	Turbonsp
3.00	11	Aricidea catherinae	Ariccath
1.00	210	Nephtys incisa	Neptinci
2.00	205	Polydora ligni	Polylign
9.00	153	Asychis elongata	Asycelon
1.00	189	Brania clavata	Branclav
18.00	5	Lumbrineris tenuis	Lumbtenu
3.00	69	Tellina agilis	Tellagil
2.00	258	Owenia fusiformis	Owenfusi
1.00	113	Phyllocoelae arenae	Phylaren

Group: LittlPec
Sample unit: PEC229

Value	Code	Species	Code Name
6.00	167	Amphioplus abditus	Amphabdi
1.00	291	Harmothoe sp	Harmsp
6.00	212	Minuspio sp	Minusp
2.00	63	Pista palmata	Pistpalm
2.00	16	Polydora sp	Polydora
1.00	177	Acteocina canaliculata	Actecana
1.00	30	Ampelisca vadorum	Ampevado
1.00	2	Capitellidae sp	Capisp
2.00	140	Glycera americana	Glycamer
4.00	160	Melinna cristata	Melicris
3.00	80	Nematoda sp	Nemasp
3.00	1	Oligochaeta sp	Oligsp
3.00	97	Prionospio pinnata	Priopinn
1.00	182	Scolelepis squamata	Scolsqua
4.00	175	Turbonilla sp	Turbonsp
1.00	11	Aricidea catherinae	Ariccath
3.00	210	Nephtys incisa	Neptinci
2.00	13	Eumida sanguinea	Eumisang
1.00	234	Cossura longocirrata	Cosslong

1.00	166	Streblospio benedicti	Strebene
2.00	153	Asychis elongata	Asycelon

Group: LittlPec
Sample unit: PEC230

Value	Code	Species	Code Name
4.00	167	Amphioplus abditus	Amphabdi
2.00	291	Harmothoe sp	Harmsp
7.00	212	Minuspio sp	Minusp
13.00	16	Polydora sp	Polydora
3.00	25	Tharyx sp	Tharsp
3.00	80	Nematoda sp	Nemasp
2.00	1	Oligochaeta sp	Oligsp
1.00	97	Prionospio pinnata	Priopinn
1.00	153	Asychis elongata	Asycelon

Group: LittlPec
Sample unit: PEC231

Value	Code	Species	Code Name
1.00	167	Amphioplus abditus	Amphabdi
4.00	212	Minuspio sp	Minusp
6.00	16	Polydora sp	Polydora
7.00	25	Tharyx sp	Tharsp
2.00	177	Acteocina canaliculata	Actecana
3.00	30	Ampelisca vadorum	Ampevado
20.00	2	Capitellidae sp	Capisp
1.00	292	Clymenella zonalis	Clymzona
2.00	140	Glycera americana	Glycamer
4.00	238	Glycinde solitaria	Glycsoli
1.00	161	Ilyanassa trivittata	Ilyatriv
5.00	64	Lyonsia hyalina	Lyonhyal
61.00	244	Macoma tenta	Macotent
24.00	160	Melinna cristata	Melicris
21.00	80	Nematoda sp	Nemasp
1.00	7	Nephtys picta	Nephpict
2.00	1	Oligochaeta sp	Oligsp
12.00	82	Ostracod A	OstrA
3.00	107	Pectinaria gouldii	Pectgoul
5.00	97	Prionospio pinnata	Priopinn
4.00	182	Scolelepis squamata	Scolsqua
3.00	23	Sphaerosyllis hystrix	Sphahyst
1.00	18	Spiophanes bombyx	Spiobomb
5.00	11	Aricidea catherinae	Ariccath
1.00	172	Solen viridis	Solevir
2.00	210	Neptys incisa	Neptinci
2.00	66	Nucula proxima	Nucuprox
1.00	51	Pandora gouldiana	Pandgoul
5.00	153	Asychis elongata	Asycelon
5.00	5	Lumbrineris tenuis	Lumbtenu
1.00	32	Ampelisca verrilli	Ampeverr
1.00	131	Prionospio heterobranchia	Priohete
1.00	105	Rudilemboides naglei	Rudinagl
1.00	69	Tellina agilis	Tellagil
1.00	203	Laevicardium mortoni	Laevmort

Group: LittlPec
Sample unit: PEC232

Value	Code	Species	Code Name
1.00	167	Amphioplus abditus	Amphabdi
28.00	212	Minuspio sp	Minusp
11.00	16	Polydora sp	Polydora
1.00	30	Ampelisca vadorum	Ampevado

5.00	2	Capitellidae sp	Capisp
2.00	244	Macoma tenta	Macotent
2.00	80	Nematoda sp	Nemaspr
1.00	7	Nephtys picta	Nephpict
1.00	1	Oligochaeta sp	Oligsp
2.00	82	Ostracod A	OstrA
7.00	97	Prionospio pinnata	Priopinn
1.00	175	Turbonilla sp	Turbonsp
2.00	210	Neptys incisa	Neptinci
3.00	153	Asychis elongata	Asycelon

Group: LittlPec
Sample unit: PEC233

Value	Code	Species	Code Name
7.00	167	Amphioplus abditus	Amphabdi
2.00	291	Harmothoe sp	Harmsp
21.00	212	Minuspio sp	Minuspi
1.00	63	Pista palmata	Pistpalm
6.00	16	Polydora sp	Polydora
1.00	30	Ampelisca vadorum	Ampevado
1.00	2	Capitellidae sp	Capisp
1.00	160	Melinna cristata	Melicris
3.00	1	Oligochaeta sp	Oligsp
1.00	175	Turbonilla sp	Turbonsp
1.00	11	Aricidea catherinæ	Ariccath
1.00	66	Nucula proxima	Nucuprox
4.00	153	Asychis elongata	Asycelon

Group: LittlPec
Sample unit: PEC234

Value	Code	Species	Code Name
1.00	167	Amphioplus abditus	Amphabdi
1.00	212	Minuspio sp	Minuspi
5.00	16	Polydora sp	Polydora
2.00	25	Tharyx sp	Tharsp
2.00	30	Ampelisca vadorum	Ampevado
14.00	2	Capitellidae sp	Capisp
3.00	292	Clymenella zonalis	Clymzona
1.00	238	Glycinde solitaria	Glycsoli
4.00	64	Lyonsia hyalina	Lyonhyal
14.00	244	Macoma tenta	Macotent
43.00	160	Melinna cristata	Melicris
521.00	80	Nematoda sp	Nemaspr
8.00	7	Nephtys picta	Nephpict
8.00	82	Ostracod A	OstrA
3.00	182	Scolelepis squamata	Scolsqua
38.00	23	Sphaerosyllis hystrix	Sphahyst
8.00	18	Spiophanes bombyx	Spiobomb
6.00	11	Aricidea catherinæ	Ariccath
4.00	143	Ampharete arctica	Ampharct
1.00	66	Nucula proxima	Nucuprox
6.00	234	Cossura longocirrata	Cosslong
1.00	153	Asychis elongata	Asycelon
4.00	19	Brania wellfleetensis	Branwell
1.00	70	Mercenaria mercenaria	Mercmerc
1.00	32	Ampelisca verrilli	Ampeverr
1.00	105	Rudilemboides naglei	Rudinagl

Group: ShlIsWst
Sample unit: PEC235

Value	Code	Species	Code Name
2.00	291	Harmothoe sp	Harmsp

5.00	119	Autolytus cornutus	Autocorn
2.00	46	Batea catharinensis	Batecath
3.00	85	Corophium sp	Corosp
2.00	20	Exogone dispar	Exogdisp
24.00	138	Isopoda sp	Isopsp
1.00	4	Odontosyllis fulgorans	Odonfulg
3.00	22	Sphaerosyllis erinaceus	Sphaerin
1.00	33	Lembos smithi	Lembsmit
1.00	36	Luconacia incerta	Lucoince
5.00	53	Panopeus herbstii	Panoherb
1.00	96	Paraphoxus spinosus	Paraspin
1.00	55	Heteromysis formosa	Heteform
1.00	121	Stenothoe minuta	Stenminu
1.00	288	Autolytus fasciatus	Autofasc
2.00	277	Harmothoe imbricata	Harmimbr
1.00	24	Syllis gracilis	Syllgrac
2.00	198	Tanystylum orbiculare	Tanyorbi
1.00	306	Terebellidae sp	Teresp

Group: ShlIsWst
 Sample unit: PEC236

Value	Code	Species	Code Name
1.00	25	Tharyx sp	Tharsp
15.00	30	Ampelisca vadorum	Ampevado
12.00	2	Capitellidae sp	Capisp
2.00	292	Clymenella zonalis	Clymzona
1.00	64	Lyonsia hyalina	Lyonhyal
2.00	82	Ostracod A	OstrA
2.00	11	Aricidea catherinae	Ariccath
10.00	210	Neptys incisa	Neptinci
5.00	138	Isopoda sp	Isopsp
1.00	96	Paraphoxus spinosus	Paraspin
5.00	21	Parapionosyllis longicirrata	Paralong
1.00	121	Stenothoe minuta	Stenminu
9.00	19	Brania wellfleetensis	Branwell
1.00	70	Mercenaria mercenaria	Mercmerc
12.00	32	Ampelisca verrilli	Ampeverr
2.00	69	Tellina agilis	Tellagil
1.00	264	Scoloplos sp	Scolsp
1.00	129	Unciola irrorata	Uncirro

Group: ShlIsWst
 Sample unit: PEC237

Value	Code	Species	Code Name
1.00	16	Polydora sp	Polydora
16.00	30	Ampelisca vadorum	Ampevado
17.00	2	Capitellidae sp	Capisp
8.00	292	Clymenella zonalis	Clymzona
3.00	140	Glycera americana	Glycamer
2.00	64	Lyonsia hyalina	Lyonhyal
5.00	1	Oligochaeta sp	Oligsp
3.00	18	Spiophanes bombyx	Spiobomb
36.00	11	Aricidea catherinae	Ariccath
7.00	143	Ampharete arctica	Ampharct
1.00	210	Neptys incisa	Neptinci
1.00	66	Nucula proxima	Nucuprox
1.00	19	Brania wellfleetensis	Branwell
4.00	110	Syllides setosa	Syllseto
10.00	32	Ampelisca verrilli	Ampeverr
21.00	69	Tellina agilis	Tellagil
1.00	129	Unciola irrorata	Uncirro

Group: ShlIsWst
 Sample unit: PEC238

Value	Code	Species	Code Name
1.00	30	Ampelisca vadorum	Ampevado
1.00	110	Syllides setosa	Syllseto
2.00	60	Bivalvia sp	Bivasp
1.00	116	Ophelia sp	Ophesp
1.00	304	Parahaustorius holmesi	Paraholm
1.00	126	Politolana concharum	Policonc
2.00	103	Spisula solidissima	Spissoli

Group: ShlIsWst
Sample unit: PEC239

Value	Code	Species	Code Name
4.00	25	Tharyx sp	Tharsp
1.00	292	Clymenella zonalis	Clymzona
1.00	140	Glycera americana	Glycamer
3.00	161	Ilyanassa trivittata	Ilyatriv
2.00	7	Nephtys picta	Nephpict
11.00	1	Oligochaeta sp	Oligsp
82.00	11	Aricidea catherinae	Ariccath
1.00	145	Gyptis vittata	Gyptvitt
2.00	66	Nucula proxima	Nucuprox
1.00	46	Batea catharinensis	Batecath
1.00	85	Corophium sp	Corosp
3.00	20	Exogone dispar	Exogdisp
1.00	96	Paraphoxus spinosus	Paraspin
17.00	75	Crepidula fornicate	Crepforn
9.00	21	Parapionosyllis longicirrata	Paralong
5.00	19	Brania wellfleetensis	Branwell
1.00	32	Ampelisca verrilli	Ampeverr
1.00	61	Anomia simplex	Anomsimp
13.00	289	Balanus amphitrite	Balaamph
2.00	277	Harmothoe imbricata	Harmimbr
1.00	129	Unciola irrorata	Uncirro
1.00	89	Crassinella mactracea	Crasmact

Group: ShlIsWst
Sample unit: PEC240

Value	Code	Species	Code Name
1.00	167	Amphioplus abditus	Amphabdi
3.00	16	Polydora sp	Polydora
2.00	25	Tharyx sp	Tharsp
15.00	2	Capitellidae sp	Capisp
2.00	292	Clymenella zonalis	Clymzona
1.00	140	Glycera americana	Glycamer
2.00	1	Oligochaeta sp	Oligsp
1.00	182	Scolelepis squamata	Scolsqua
1.00	66	Nucula proxima	Nucuprox
1.00	13	Eumida sanguinea	Eumisang
16.00	20	Exogone dispar	Exogdisp
1.00	138	Isopoda sp	Isopsp
19.00	4	Odontosyllis fulgurans	Odonfulg
4.00	22	Sphaerosyllis erinaceus	Sphaerin
1.00	41	Elasmopus levius	Elaslevi
2.00	53	Panopeus herbstii	Panoherb
7.00	96	Paraphoxus spinosus	Paraspin
14.00	75	Crepidula fornicate	Crepforn
1.00	21	Parapionosyllis longicirrata	Paralong
1.00	19	Brania wellfleetensis	Branwell
1.00	110	Syllides setosa	Syllseto
4.00	61	Anomia simplex	Anomsimp
2.00	74	Seila adamsi	Seiladam
2.00	294	Urosalpinx cinerea	Uroscine
1.00	288	Autolytus fasciatus	Autofasc

7.00	277	Harmothoe imbricata	Harmimbr
5.00	24	Syllis gracilis	Syllgrac
1.00	306	Terebellidae sp	Teresp
1.00	35	Caprella penantis	Caprpena
1.00	305	Cerithiopsis emersonii	Ceriemer
2.00	78	Chaetopleura apiculata	Chaeapic
1.00	214	Crangon septemspinosa	Cransept
1.00	52	Dyspanopeus sayi	Dypsayi
1.00	186	Jassa falcata	Jassfalc

Group: ShlIsWst
Sample unit: PEC241

Value	Code	Species	Code Name
57.00	30	Ampelisca vadorum	Ampevado
5.00	2	Capitellidae sp	Capisp
2.00	292	Clymenella zonalis	Clymzona
15.00	64	Lyonsia hyalina	Lyonhyal
1.00	1	Oligochaeta sp	Oligsp
1.00	18	Spiophanes bombyx	Spiobomb
32.00	11	Aricidea catherinae	Ariccath
23.00	143	Ampharete arctica	Ampharct
1.00	210	Neptys incisa	Neptinci
5.00	66	Nucula proxima	Nucuprox
2.00	62	Anadara transversa	Anadtran
1.00	46	Batea catharinensis	Batecath
1.00	13	Eumida sanguinea	Eumisang
17.00	20	Exogone dispar	Exogdisp
2.00	22	Sphaerosyllis erinaceus	Sphaerin
3.00	36	Luconacia incerta	Lucoince
10.00	96	Paraphoxus spinosus	Paraspin
1.00	5	Lumbrineris tenuis	Lumbtenu
1.00	21	Parapionosyllis longicirrata	Paralong
1.00	121	Stenothoe minuta	Stenminu
1.00	19	Brania wellfleetensis	Branwell
2.00	68	Ensis directus	Ensidiire
2.00	129	Unciola irrorata	Uncirro
1.00	89	Crassinella mactracea	Crasmact
1.00	305	Cerithiopsis emersonii	Ceriemer
3.00	308	Caprellidae sp	Caprsp
1.00	134	Schistomeringos caecus	Schicaec

Group: ShlIsWst
Sample unit: PEC242

Value	Code	Species	Code Name
1.00	30	Ampelisca vadorum	Ampevado
1.00	140	Glycera americana	Glycamer
2.00	1	Oligochaeta sp	Oligsp
1.00	20	Exogone dispar	Exogdisp
1.00	96	Paraphoxus spinosus	Paraspin
1.00	21	Parapionosyllis longicirrata	Paralong
3.00	69	Tellina agilis	Tellagil
1.00	294	Urosalpinx cinerea	Uroscine
1.00	304	Parahaustorius holmesi	Paraholm
5.00	126	Politolana concharum	Policonc
8.00	89	Crassinella mactacea	Crasmact

Group: ShlIsWst
Sample unit: PEC243

Value	Code	Species	Code Name
1.00	291	Harmothoe sp	Harmsp
3.00	16	Polydora sp	Polydora
7.00	25	Tharyx sp	Tharsp

15.00	30	Ampelisca vadorum	Ampevado
2.00	2	Capitellidae sp	Capisp
1.00	292	Clymenella zonalis	Clymzona
3.00	64	Lyonsia hyalina	Lyonhyal
3.00	7	Nephtys picta	Nephpict
2.00	1	Oligochaeta sp	Oligsp
3.00	143	Ampharete arctica	Ampharct
1.00	298	Nereis grayi	Neregray
1.00	20	Exogone dispar	Exogdisp
2.00	22	Sphaerosyllis erinaceus	Sphaerin
2.00	111	Erichthonius brasiliensis	Ericbras
3.00	50	Oxyurostylis smithi	Oxyusmit
5.00	96	Paraphoxus spinosus	Paraspin
3.00	75	Crepidula fornicata	Crepforn
10.00	21	Parapionosyllis longicirrata	Paralong
6.00	19	Brania wellfleetensis	Branwell
1.00	110	Syllides setosa	Syllseto
1.00	68	Ensis directus	Ensidiire
2.00	105	Rudilembooides naglei	Rudinagl
1.00	306	Terebellidae sp	Teresp
1.00	156	Spiro sp	Spiosp
2.00	280	Unciola sp	Uncisp

Group: ShlIsWst
 Sample unit: PEC244

Value	Code	Species	Code Name
1.00	16	Polydora sp	Polydora
2.00	25	Tharyx sp	Tharsp
5.00	30	Ampelisca vadorum	Ampevado
17.00	2	Capitellidae sp	Capisp
3.00	292	Clymenella zonalis	Clymzona
1.00	64	Lyonsia hyalina	Lyonhyal
6.00	1	Oligochaeta sp	Oligsp
1.00	143	Ampharete arctica	Ampharct
1.00	298	Nereis grayi	Neregray
1.00	210	Neptys incisa	Neptinci
1.00	66	Nucula proxima	Nucuprox
3.00	46	Batea catharinensis	Batecath
8.00	75	Crepidula fornicata	Crepforn
10.00	289	Balanus amphitrite	Balaamph
2.00	69	Tellina agilis	Tellagil
1.00	277	Harmothoe imbricata	Harmimbr
1.00	129	Unciola irrorata	Uncirro
1.00	174	Paranaitis speciosa	Paraspec
1.00	139	Sthenelais boa	Stheboa

Group: ShlIsWst
 Sample unit: PEC245

Value	Code	Species	Code Name
2.00	167	Amphioplus abditus	Amphabdi
1.00	291	Harmothoe sp	Harmsp
30.00	212	Minuspio sp	Minusp
5.00	63	Pista palmata	Pistpalm
8.00	16	Polydora sp	Polydora
15.00	25	Tharyx sp	Tharsp
2.00	99	Turbellaria sp	Turbelsp
3.00	177	Acteocina canaliculata	Actecana
2.00	30	Ampelisca vadorum	Ampevado
78.00	2	Capitellidae sp	Capisp
2.00	292	Clymenella zonalis	Clymzona
11.00	244	Macoma tenta	Macotent
1.00	160	Melinna cristata	Melicris
11.00	1	Oligochaeta sp	Oligsp
2.00	82	Ostracod A	OstrA
1.00	97	Prionospio pinnata	Priopinn

15.00	182	Scolelepis squamata	Scolsqua
1.00	23	Sphaerosyllis hystrix	Sphahyst
2.00	145	Gyptis vittata	Gyptvitt
1.00	298	Nereis grayi	Neregray
14.00	210	Neptys incisa	Neptinci
2.00	129	Unciola irrorata	Uncirro

Group: ShlIsWst
Sample unit: PEC246

Value	Code	Species	Code Name
10.00	212	Minuspio sp	Minusp
3.00	2	Capitellidae sp	Capisp
16.00	244	Macoma tenta	Macotent
2.00	1	Oligochaeta sp	Oligsp
2.00	182	Scolelepis squamata	Scolsqua
1.00	145	Gyptis vittata	Gyptvitt
9.00	210	Neptys incisa	Neptinci

Group: ShlIsWst
Sample unit: PEC247

Value	Code	Species	Code Name
2.00	212	Minuspio sp	Minusp
1.00	25	Tharyx sp	Tharsp
2.00	177	Acteocina canaliculata	Actecana
3.00	30	Ampelisca vadourum	Ampevado
39.00	2	Capitellidae sp	Capisp
12.00	292	Clymenella zonalis	Clymzona
5.00	64	Lyonsia hyalina	Lyonhyal
13.00	244	Macoma tenta	Macotent
2.00	7	Nephtys picta	Nephpict
14.00	1	Oligochaeta sp	Oligsp
1.00	82	Ostracod A	OstrA
2.00	107	Pectinaria gouldii	Pectgoul
5.00	182	Scolelepis squamata	Scolsqua
1.00	23	Sphaerosyllis hystrix	Sphahyst
1.00	298	Nereis grayi	Neregray
8.00	210	Neptys incisa	Neptinci
15.00	234	Cossura longocirrata	Cosslong
2.00	118	Ampharetidae sp	Amphtdae
1.00	180	Cephalaspidea sp	Cephsp
1.00	110	Syllides setosa	Syllseto
1.00	32	Ampelisca verrilli	Ampeverr
1.00	69	Tellina agilis	Tellagil
2.00	60	Bivalvia sp	Bivasp
1.00	214	Crangon septemspinosa	Cransept

Group: ShlIsWst
Sample unit: PEC248

Value	Code	Species	Code Name
5.00	16	Polydora sp	Polydora
12.00	30	Ampelisca vadourum	Ampevado
33.00	2	Capitellidae sp	Capisp
2.00	292	Clymenella zonalis	Clymzona
1.00	140	Glycera americana	Glycamer
1.00	161	Ilyanassa trivittata	Ilyatriv
18.00	64	Lyonsia hyalina	Lyonhyal
3.00	7	Nephtys picta	Nephpict
6.00	1	Oligochaeta sp	Oligsp
1.00	23	Sphaerosyllis hystrix	Sphahyst
3.00	18	Spiophanes bombyx	Spiobomb
40.00	11	Aricidea catherinae	Ariccath
1.00	145	Gyptis vittata	Gyptvitt

7.00	143	Ampharete arctica	Ampharct
1.00	298	Nereis grayi	Neregray
6.00	66	Nucula proxima	Nucuprox
3.00	62	Anadara transversa	Anadtran
1.00	46	Batea catharinensis	Batecath
3.00	13	Eumida sanguinea	Eumisang
3.00	4	Odontosyllis fulgurans	Odonfulg
1.00	111	Erichthonius brasiliensis	Ericbras
1.00	33	Lembos smithi	Lembsmit
1.00	53	Panopeus herbstii	Panoherb
1.00	37	Paracaprella tenuis	Parateni
1.00	96	Paraphoxus spinosus	Paraspin
1.00	5	Lumbrineris tenuis	Lumbtenu
2.00	21	Parapionosyllis longicirrata	Paralong
3.00	19	Brania wellfleetensis	Branwell
1.00	110	Syllides setosa	Sylseto
6.00	32	Ampelisca verrilli	Ampeverr
6.00	68	Ensis directus	Ensidiire
1.00	61	Anomia simplex	Anomsimp
4.00	69	Tellina agilis	Tellagil
2.00	113	Phyllodoce arenae	Phylaren
2.00	277	Harmothoe imbricata	Harmimbr
9.00	306	Terebellidae sp	Teresp
1.00	134	Schistomerings caecus	Schicaec
4.00	280	Unciola sp	Uncisp
2.00	296	Mytilus edulis	Mytiedul

Group: ShlIsWst
 Sample unit: PEC249

Value	Code	Species	Code Name
2.00	25	Tharyx sp	Tharsp
69.00	30	Ampelisca vadorum	Ampevado
10.00	2	Capitellidae sp	Capisp
12.00	292	Clymenella zonalis	Clymzona
3.00	64	Lyonsia hyalina	Lyonhyal
2.00	7	Nephtys picta	Nephpict
4.00	1	Oligochaeta sp	Oligsp
1.00	23	Sphaerosyllis hystrix	Sphahyst
1.00	18	Spiophanes bombyx	Spiobomb
56.00	11	Aricidea catherinae	Ariccath
4.00	143	Ampharete arctica	Ampharct
1.00	298	Nereis grayi	Neregray
7.00	66	Nucula proxima	Nucuprox
25.00	46	Batea catharinensis	Batecath
1.00	13	Eumida sanguinea	Eumisang
11.00	20	Exogone dispar	Exogdisp
4.00	96	Paraphoxus spinosus	Paraspin
3.00	21	Parapionosyllis longicirrata	Paralong
1.00	19	Brania wellfleetensis	Branwell
4.00	68	Ensis directus	Ensidiire
56.00	289	Balanus amphitrite	Balaamph
2.00	277	Harmothoe imbricata	Harmimbr
1.00	306	Terebellidae sp	Teresp
5.00	129	Unciola irrorata	Uncirro
1.00	89	Crassinella mactracea	Crasmact
1.00	156	Spio sp	Spiosp
1.00	139	Sthenelais boa	Stheboa

Group: ShlIsWst
 Sample unit: PEC250

Value	Code	Species	Code Name
1.00	16	Polydora sp	Polydora
3.00	25	Tharyx sp	Tharsp
21.00	30	Ampelisca vadorum	Ampevado
11.00	2	Capitellidae sp	Capisp

7.00	292	Clymenella zonalis	Clymzona
2.00	140	Glycera americana	Glycamer
1.00	64	Lyonsia hyalina	Lyonhyal
4.00	7	Nephtys picta	Nephpict
1.00	1	Oligochaeta sp	Oligsp
4.00	18	Spiophanes bombyx	Spiobomb
10.00	11	Aricidea catherinae	Ariccath
15.00	143	Ampharete arctica	Ampharct
1.00	66	Nucula proxima	Nucuprox
1.00	20	Exogone dispar	Exogdisp
1.00	21	Parapionosyllis longicirrata	Paralong
8.00	32	Ampelisca verrilli	Ampeverr
1.00	68	Ensis directus	Ensidiire
2.00	69	Tellina agilis	Tellagil
1.00	129	Unciola irrorata	Uncirro

Group: ShlIsWst
 Sample unit: PEC251

Value	Code	Species	Code Name
7.00	25	Tharyx sp	Tharsp
14.00	30	Ampelisca vadorum	Ampevado
7.00	2	Capitellidae sp	Capisp
4.00	292	Clymenella zonalis	Clymzona
4.00	64	Lyonsia hyalina	Lyonhyal
2.00	7	Nephtys picta	Nephpict
3.00	11	Aricidea catherinae	Ariccath
4.00	143	Ampharete arctica	Ampharct
4.00	66	Nucula proxima	Nucuprox
3.00	46	Batea catharinensis	Batecath
4.00	20	Exogone dispar	Exogdisp
1.00	4	Odontosyllis fulgurans	Odonfulg
1.00	22	Sphaerosyllis erinaceus	Sphaerin
2.00	111	Erichthonius brasiliensis	Ericbras
1.00	36	Luconacia incerta	Lucoince
2.00	96	Paraphoxus spinosus	Paraspin
5.00	21	Parapionosyllis longicirrata	Paralong
1.00	121	Stenothoe minuta	Stenminu
2.00	19	Brania wellfleetensis	Branwell
3.00	110	Syllides setosa	Syllseto
7.00	32	Ampelisca verrilli	Ampeverr
2.00	68	Ensis directus	Ensidiire
4.00	69	Tellina agilis	Tellagil
1.00	277	Harmothoe imbricata	Harmimbr
1.00	14	Polygordius sp	Polygord
1.00	9	Travisia carnea	Travcarn

Group: ShlIsWst
 Sample unit: PEC252

Value	Code	Species	Code Name
10.00	30	Ampelisca vadorum	Ampevado
38.00	2	Capitellidae sp	Capisp
4.00	292	Clymenella zonalis	Clymzona
1.00	140	Glycera americana	Glycamer
2.00	64	Lyonsia hyalina	Lyonhyal
1.00	7	Nephtys picta	Nephpict
11.00	1	Oligochaeta sp	Oligsp
2.00	23	Sphaerosyllis hystrix	Sphahyst
15.00	18	Spiophanes bombyx	Spiobomb
66.00	11	Aricidea catherinae	Ariccath
18.00	143	Ampharete arctica	Ampharct
2.00	298	Nereis grayi	Neregray
2.00	50	Oxyurostylis smithi	Oxyusmit
6.00	110	Syllides setosa	Syllseto
23.00	32	Ampelisca verrilli	Ampeverr
1.00	68	Ensis directus	Ensidiire

10.00	69	Tellina agilis	Tellagil
1.00	264	Scoloplos sp	Scolsp
4.00	129	Unciola irrorata	Uncirro
1.00	156	Spio sp	Spiosk
1.00	77	Busycon carica	Busycari
1.00	43	Pagurus longicarpus	Pagulong

Group: ShlIsWst
Sample unit: PEC253

Value	Code	Species	Code Name
54.00	291	Harmothoe sp	Harmsp
2.00	16	Polydora sp	Polydora
14.00	2	Capitellidae sp	Capisp
2.00	1	Oligochaeta sp	Oligsp
5.00	23	Sphaerosyllis hystrix	Sphahyst
6.00	11	Aricidea catherinae	Ariccath
3.00	62	Anadara transversa	Anadtran
5.00	119	Autolytus cornutus	Autocorn
11.00	20	Exogone dispar	Exogdisp
35.00	4	Odontosyllis fulgurans	Odonfulg
24.00	22	Sphaerosyllis erinaceus	Sphaerin
1.00	33	Lembos smithi	Lembsmit
4.00	53	Panopeus herbstii	Panoherb
1.00	189	Brania clavata	Branclav
7.00	75	Crepidula fornicate	Crepforn
2.00	24	Syllis gracilis	Syllgrac
2.00	129	Unciola irrorata	Uncirro

Group: ShlIsWst
Sample unit: PEC254

Value	Code	Species	Code Name
4.00	291	Harmothoe sp	Harmsp
26.00	30	Ampelisca vadorum	Ampevado
28.00	2	Capitellidae sp	Capisp
1.00	292	Clymenella zonalis	Clymzona
2.00	140	Glycera americana	Glycamer
1.00	64	Lyonsia hyalina	Lyonhyal
5.00	1	Oligochaeta sp	Oligsp
3.00	23	Sphaerosyllis hystrix	Sphahyst
77.00	11	Aricidea catherinae	Ariccath
5.00	143	Ampharete arctica	Ampharct
2.00	66	Nucula proxima	Nucuprox
22.00	46	Batea catharinensis	Batecath
2.00	85	Corophium sp	Corosp
2.00	20	Exogone dispar	Exogdisp
1.00	138	Isopoda sp	Isopsp
1.00	4	Odontosyllis fulgurans	Odonfulg
1.00	33	Lembos smithi	Lembsmit
3.00	36	Luconacia incerta	Lucoince
1.00	189	Brania clavata	Branclav
1.00	37	Paracaprella tenius	Parateni
5.00	96	Paraphoxus spinosus	Paraspin
3.00	75	Crepidula fornicate	Crepforn
1.00	55	Heteromysis formosa	Heteform
9.00	121	Stenothoe minuta	Stenminu
1.00	68	Ensis directus	Ensidiire
1.00	105	Rudilemboides naglei	Rudinagl
1.00	89	Crassinella mactacea	Crasmact
1.00	35	Caprella penantis	Caprpena
1.00	52	Dyspanopeus sayi	Dypsayi
6.00	308	Caprellidae sp	Caprsp
1.00	29	Arabella iricolor	Arabiric

Group: ShlIsWst

Sample unit: PEC255

Value	Code	Species	Code Name
4.00	291	Harmothoe sp	Harmsp
6.00	16	Polydora sp	Polydora
1.00	25	Tharyx sp	Tharsp
1.00	30	Ampelisca vadorum	Ampevado
34.00	2	Capitellidae sp	Capisp
1.00	292	Clymenella zonalis	Clymzona
1.00	140	Glycera americana	Glycamer
59.00	1	Oligochaeta sp	Oligsp
2.00	23	Sphaerosyllis hystrix	Sphahyst
2.00	18	Spiophanes bombyx	Spiobomb
37.00	11	Aricidea catherinae	Ariccath
1.00	145	Gyptis vittata	Gyptvitt
7.00	143	Ampharete arctica	Ampharct
2.00	66	Nucula proxima	Nucuprox
3.00	20	Exogone dispar	Exogdisp
2.00	22	Sphaerosyllis erinaceus	Sphaerin
3.00	53	Panopeus herbstii	Panoherb
1.00	189	Brania clavata	Branclav
15.00	21	Parapionosyllis longicirrata	Paralong
1.00	135	Schistomerings rudolphi	Schirudo
2.00	19	Brania wellfleetensis	Branwell
8.00	110	Syllides setosa	Syllseto
1.00	131	Prionospio heterobranchia	Priohete
10.00	289	Balanus amphitrite	Balaamph
1.00	277	Harmothoe imbricata	Harmimbr

Group: NoyakBay
Sample unit: PEC256

Value	Code	Species	Code Name
4.00	291	Harmothoe sp	Harmsp
1.00	16	Polydora sp	Polydora
1.00	25	Tharyx sp	Tharsp
79.00	2	Capitellidae sp	Capisp
4.00	292	Clymenella zonalis	Clymzona
3.00	140	Glycera americana	Glycamer
1.00	64	Lyonsia hyalina	Lyonhyal
2.00	23	Sphaerosyllis hystrix	Sphahyst
6.00	11	Aricidea catherinae	Ariccath
2.00	143	Ampharete arctica	Ampharct
1.00	298	Nereis grayi	Neregray
1.00	66	Nucula proxima	Nucuprox
4.00	46	Batea catharinensis	Batecath
31.00	20	Exogone dispar	Exogdisp
2.00	138	Isopoda sp	Isopsp
3.00	4	Odontosyllis fulgurans	Odonfulg
1.00	270	Sabellaria vulgaris	Sabevulg
1.00	22	Sphaerosyllis erinaceus	Sphaerin
5.00	53	Panopeus herbstii	Panoherb
5.00	96	Paraphoxus spinosus	Paraspin
1.00	75	Crepidula fornicate	Crepforn
1.00	21	Parapionosyllis longicirrata	Paralong
1.00	135	Schistomerings rudolphi	Schirudo
1.00	68	Ensis directus	Ensidiire
10.00	289	Balanus amphitrite	Balaamph
1.00	294	Urosalpinx cinerea	Uroscine
3.00	277	Harmothoe imbricata	Harmimbr
1.00	198	Tanystylum orbiculare	Tanyorbi
2.00	129	Unciola irrorata	Uncirro
4.00	89	Crassinella mactracea	Crasmact
2.00	150	Lysianopsis alba	Lysialba

Group: NoyakBay
Sample unit: PEC257

Value	Code	Species	Code Name
10.00	30	Ampelisca vadorum	Ampevado
3.00	2	Capitellidae sp	Capisp
9.00	292	Clymenella zonalis	Clymzona
1.00	140	Glycera americana	Glycamer
5.00	7	Nephtys picta	Nephpict
1.00	18	Spiophanes bombyx	Spiobomb
8.00	11	Aricidea catherinae	Ariccath
4.00	143	Ampharete arctica	Ampharct
3.00	66	Nucula proxima	Nucuprox
1.00	20	Exogone dispar	Exogdisp
1.00	33	Lembos smithi	Lembsmit
1.00	110	Syllides setosa	Syllseto
6.00	32	Ampelisca verrilli	Ampeverr
5.00	68	Ensis directus	Ensidiere
5.00	69	Tellina agilis	Tellagil
1.00	113	Phyllodoce arenae	Phylaren
1.00	129	Unciola irrorata	Uncirro

Group: NoyakBay
Sample unit: PEC258

Value	Code	Species	Code Name
3.00	291	Harmothoe sp	Harmsp
4.00	30	Ampelisca vadorum	Ampevado
1.00	86	Asabellides oculata	Asabocul
61.00	2	Capitellidae sp	Capisp
3.00	292	Clymenella zonalis	Clymzona
8.00	64	Lyonsia hyalina	Lyonhyal
3.00	1	Oligochaeta sp	Oligsp
9.00	23	Sphaerosyllis hystrix	Sphahyst
8.00	11	Aricidea catherinae	Ariccath
9.00	143	Ampharete arctica	Ampharct
6.00	66	Nucula proxima	Nucuprox
1.00	62	Anadara transversa	Anadtran
1.00	46	Batea catharinensis	Batecath
1.00	85	Corophium sp	Corosp
24.00	20	Exogone dispar	Exogdisp
4.00	138	Isopoda sp	Isopsp
3.00	4	Odontosyllis fulgurans	Odonfulg
3.00	22	Sphaerosyllis erinaceus	Sphaerin
2.00	111	Erichthonius brasiliensis	Ericbras
6.00	36	Luconacia incerta	Lucoince
2.00	53	Panopeus herbstii	Panoherb
7.00	37	Paracaprella tenius	Parateni
9.00	96	Paraphoxus spinosus	Paraspin
1.00	21	Parapionosyllis longicirrata	Paralong
8.00	121	Stenothoe minuta	Stenminu
1.00	19	Brania wellfleensis	Branwell
6.00	68	Ensis directus	Ensidiere
27.00	289	Balanus amphitrite	Balaamph
1.00	277	Harmothoe imbricata	Harmimbr
1.00	129	Unciola irrorata	Uncirro
3.00	89	Crassinella mactracea	Crasmact
11.00	308	Caprellidae sp	Caprsp
2.00	156	Spio sp	Spiosp
3.00	158	Cumingia tellinoides	Cumitell

Group: NoyakBay
Sample unit: PEC259

Value	Code	Species	Code Name
16.00	167	Amphioplus abditus	Amphabdi
7.00	291	Harmothoe sp	Harmsp
23.00	212	Minuspio sp	Minusp

13.00	16	Polydora sp	Polydora
8.00	25	Tharyx sp	Tharsp
2.00	99	Turbellaria sp	Turbelsp
1.00	2	Capitellidae sp	Capisp
1.00	140	Glycera americana	Glycamer
2.00	244	Macoma tenta	Macotent
1.00	182	Scolelepis squamata	Scolsqua
2.00	145	Gyptis vittata	Gyptvitt
1.00	210	Neptmys incisa	Neptinci
1.00	35	Caprella penantis	Caprpena
1.00	297	Drilonereis magna	Drilmagn

Group: NoyakBay
Sample unit: PEC260

Value	Code	Species	Code Name
4.00	16	Polydora sp	Polydora
3.00	25	Tharyx sp	Tharsp
3.00	30	Ampelisca vadorum	Ampevado
80.00	2	Capitellidae sp	Capisp
8.00	292	Clymenella zonalis	Clymzona
3.00	140	Glycera americana	Glycamer
1.00	238	Glycinde solitaria	Glycsoli
1.00	161	Ilyanassa trivittata	Ilyatriv
2.00	64	Lyonsia hyalina	Lyonhyal
39.00	1	Oligochaeta sp	Oligsp
1.00	107	Pectinaria gouldii	Pectgoul
6.00	23	Sphaerosyllis hystrix	Sphahyst
10.00	11	Aricidea catherinae	Ariccath
2.00	143	Ampharete arctica	Ampharct
1.00	66	Nucula proxima	Nucuprox
1.00	62	Anadara transversa	Anadtran
1.00	85	Corophium sp	Corosp
1.00	20	Exogone dispar	Exogdisp
1.00	4	Odontosyllis fulgurans	Odonfulg
3.00	22	Sphaerosyllis erinaceus	Sphaerin
3.00	33	Lembos smithi	Lembsmit
1.00	189	Brania clavata	Branclav
2.00	96	Paraphoxus spinosus	Paraspin
14.00	75	Crepidula fornicate	Crepforn
4.00	110	Syllides setosa	Syllseto
3.00	32	Ampelisca verrilli	Ampeverr
1.00	68	Ensis directus	Ensidiire
4.00	61	Anomia simplex	Anomsimp
3.00	295	Bittium alternatum	Bittalte
2.00	69	Tellina agilis	Tellagil
5.00	277	Harmothoe imbricata	Harmimbr
1.00	134	Schistomerings caecus	Schicaec

Group: NoyakBay
Sample unit: PEC261

Value	Code	Species	Code Name
2.00	16	Polydora sp	Polydora
2.00	25	Tharyx sp	Tharsp
14.00	30	Ampelisca vadorum	Ampevado
28.00	2	Capitellidae sp	Capisp
10.00	292	Clymenella zonalis	Clymzona
7.00	64	Lyonsia hyalina	Lyonhyal
7.00	1	Oligochaeta sp	Oligsp
18.00	23	Sphaerosyllis hystrix	Sphahyst
3.00	18	Spiophanes bombyx	Spiobomb
49.00	11	Aricidea catherinae	Ariccath
3.00	143	Ampharete arctica	Ampharct
12.00	66	Nucula proxima	Nucuprox
2.00	46	Batea catharinensis	Batecath
13.00	20	Exogone dispar	Exogdisp

5.00	22	Sphaerosyllis erinaceus	Sphaerin
2.00	234	Cossura longocirrata	Cosslong
1.00	51	Pandora gouldiana	Pandgoul
3.00	50	Oxyurostylis smithi	Oxyusmit
1.00	189	Brania clavata	Branclav
1.00	96	Paraphoxus spinosus	Paraspin
3.00	75	Crepidula fornicata	Crepforn
5.00	21	Parapionosyllis longicirrata	Paralong
5.00	121	Stenothoe minuta	Stenminu
4.00	19	Brania wellfleetensis	Branwell
3.00	110	Syllides setosa	Sylseto
3.00	32	Ampelisca verrilli	Ampeverr
2.00	68	Ensis directus	Ensidiire
3.00	105	Rudilemboides naglei	Rudinagl
4.00	69	Tellina agilis	Tellagil
1.00	277	Harmothoe imbricata	Harmimbr
3.00	129	Unciola irrorata	Uncirro
1.00	89	Crassinella mactracea	Crasmact
3.00	35	Caprella penantis	Caprpena
2.00	308	Caprellidae sp	Caprsp
1.00	134	Schistomeringos caecus	Schicaec
2.00	156	Spio sp	Spiosp
1.00	139	Sthenelais boa	Stheboa
1.00	14	Polygordius sp	Polygord

Group: NoyakBay
Sample unit: PEC262

Value	Code	Species	Code Name
11.00	16	Polydora sp	Polydora
3.00	30	Ampelisca vadorum	Ampevado
33.00	2	Capitellidae sp	Capisp
7.00	292	Clymenella zonalis	Clymzona
1.00	140	Glycera americana	Glycamer
5.00	1	Oligochaeta sp	Oligsp
5.00	23	Sphaerosyllis hystrix	Sphahyst
2.00	11	Aricidea catherinae	Ariccath
1.00	143	Ampharete arctica	Ampharct
1.00	119	Autolytus cornutus	Autocorn
1.00	46	Batea catharinensis	Batecath
27.00	20	Exogone dispar	Exogdisp
20.00	4	Odontosyllis fulgorans	Odonfulg
1.00	123	Podarke obscura	Podaobsc
20.00	22	Sphaerosyllis erinaceus	Sphaerin
3.00	33	Lembos smithi	Lembsmit
1.00	36	Luconacia incerta	Lucoince
1.00	41	Elasmopus levius	Elaslevi
1.00	53	Panopeus herbstii	Panoherb
3.00	189	Brania clavata	Branclav
2.00	37	Paracaprella tenius	Parateni
2.00	96	Paraphoxus spinosus	Paraspin
1.00	21	Parapionosyllis longicirrata	Paralong
1.00	110	Syllides setosa	Sylseto
4.00	277	Harmothoe imbricata	Harmimbr
5.00	306	Terebellidae sp	Teresp
2.00	35	Caprella penantis	Caprpena
1.00	280	Unciola sp	Uncisp
1.00	290	Corbula contracta	Corbcont
3.00	271	Sabellidae sp	Sabesp

Group: NoyakBay
Sample unit: PEC263

Value	Code	Species	Code Name
1.00	25	Tharyx sp	Tharsp
1.00	177	Acteocina canaliculata	Actecana
8.00	30	Ampelisca vadorum	Ampevado

51.00	2	Capitellidae sp	Capisp
14.00	292	Clymenella zonalis	Clymzona
3.00	140	Glycera americana	Glycamer
1.00	161	Ilyanassa trivittata	Ilyatriv
10.00	64	Lyonsia hyalina	Lyonhyal
2.00	7	Nephtys picta	Nephpict
3.00	1	Oligochaeta sp	Oligsp
6.00	23	Sphaerosyllis hystrix	Sphahyst
14.00	18	Spiophanes bombyx	Spiobomb
25.00	11	Aricidea catherinae	Ariccath
4.00	143	Ampharete arctica	Ampharct
1.00	298	Nereis grayi	Neregray
1.00	210	Nephtys incisa	Neptinci
7.00	66	Nucula proxima	Nucuprox
11.00	20	Exogone dispar	Exogdisp
6.00	205	Polydora ligni	Polylign
2.00	50	Oxyurostylis smithi	Oxyusmit
16.00	21	Parapionosyllis longicirrata	Paralong
1.00	19	Brania wellfleetensis	Branwell
1.00	70	Mercenaria mercenaria	Mercmerc
1.00	110	Syllides setosa	Syllseto
5.00	32	Ampelisca verrilli	Ampeverr
9.00	68	Ensis directus	Ensidiire
6.00	69	Tellina agilis	Tellagil
1.00	113	Phyllodoce arenae	Phylaren
2.00	306	Terebellidae sp	Teresp
1.00	129	Unciola irrorata	Uncirro
3.00	214	Crangon septemspinosa	Cransept
2.00	134	Schistomeringos caecus	Schicaec
1.00	158	Cumingia tellinoides	CumiteLL
1.00	67	Periploma leanum	Perilean

Group: NoyakBay
Sample unit: PEC264

Value	Code	Species	Code Name
10.00	167	Amphioplus abditus	Amphabdi
6.00	291	Harmothoe sp	Harmsp
33.00	212	Minuspio sp	Minusp
1.00	63	Pista palmata	Pistpalm
11.00	16	Polydora sp	Polydora
14.00	25	Tharyx sp	Tharsp
1.00	177	Acteocina canaliculata	Actecana
7.00	2	Capitellidae sp	Capisp
1.00	140	Glycera americana	Glycamer
5.00	244	Macoma tenta	Macotent
1.00	1	Oligochaeta sp	Oligsp
8.00	182	Scolelepis squamata	Scolsqua
5.00	210	Nephtys incisa	Neptinci

Group: NoyakBay
Sample unit: PEC265

Value	Code	Species	Code Name
1.00	25	Tharyx sp	Tharsp
1.00	177	Acteocina canaliculata	Actecana
6.00	30	Ampelisca vadorum	Ampevado
45.00	2	Capitellidae sp	Capisp
29.00	292	Clymenella zonalis	Clymzona
1.00	140	Glycera americana	Glycamer
1.00	238	Glycinde solitaria	Glycsoli
2.00	161	Ilyanassa trivittata	Ilyatriv
4.00	64	Lyonsia hyalina	Lyonhyal
3.00	244	Macoma tenta	Macotent
1.00	7	Nephtys picta	Nephpict
6.00	1	Oligochaeta sp	Oligsp
15.00	82	Ostracod A	OstrA

5.00	23	Sphaerosyllis hystrix	Sphahyst
8.00	18	Spiophanes bombyx	Spiobomb
2.00	145	Gyptis vittata	Gyptvitt
1.00	143	Ampharete arctica	Ampharct
1.00	298	Nereis grayi	Neregray
5.00	66	Nucula proxima	Nucuprox
1.00	20	Exogone dispar	Exogdisp
2.00	153	Asychis elongata	Asycelon
1.00	21	Parapionosyllis longicirrata	Paralong
1.00	19	Brania wellfleensis	Branwell
1.00	110	Syllides setosa	Sylseto
14.00	32	Ampelisca verrilli	Ampeverr
14.00	68	Ensis directus	Ensidiire
3.00	69	Tellina agilis	Tellagil
1.00	306	Terebellidae sp	Teresp
3.00	89	Crassinella mactracea	Crasmact
1.00	134	Schistomerings caecus	Schicaec
1.00	284	Decapoda megalopa	Decamega
1.00	307	Pista Cristata	PistCris

Group: NoyakBay
Sample unit: PEC266

Value	Code	Species	Code Name
6.00	167	Amphioplus abditus	Amphabdi
3.00	291	Harmothoe sp	Harmsp
8.00	212	Minuspio sp	Minusp
2.00	63	Pista palmata	Pistpalm
61.00	16	Polydora sp	Polydora
26.00	25	Tharyx sp	Tharsp
12.00	2	Capitellidae sp	Capisp
2.00	292	Clymenella zonalis	Clymzona
1.00	140	Glycera americana	Glycamer
34.00	1	Oligochaeta sp	Oligsp
1.00	107	Pectinaria gouldii	Pectgoul
4.00	145	Gyptis vittata	Gyptvitt
1.00	210	Neptys incisa	Neptinci
2.00	234	Cossura longocirrata	Cosslong
1.00	53	Panopeus herbstii	Panoherb
1.00	122	Drilonereis longa	Drillong
1.00	59	Pinnixa sp	Pinnixa

Group: NoyakBay
Sample unit: PEC267

Value	Code	Species	Code Name
10.00	167	Amphioplus abditus	Amphabdi
5.00	291	Harmothoe sp	Harmsp
28.00	212	Minuspio sp	Minusp
25.00	16	Polydora sp	Polydora
59.00	25	Tharyx sp	Tharsp
1.00	30	Ampelisca vadorum	Ampevado
5.00	2	Capitellidae sp	Capisp
1.00	140	Glycera americana	Glycamer
1.00	244	Macoma tenta	Macotent
12.00	1	Oligochaeta sp	Oligsp
4.00	210	Neptys incisa	Neptinci

Group: NoyakBay
Sample unit: PEC268

Value	Code	Species	Code Name
9.00	167	Amphioplus abditus	Amphabdi
3.00	291	Harmothoe sp	Harmsp
25.00	212	Minuspio sp	Minusp

2.00	63	Pista palmata	Pistpalm
27.00	16	Polydora sp	Polydora
19.00	25	Tharyx sp	Tharsp
1.00	30	Ampelisca vadorum	Ampevado
14.00	2	Capitellidae sp	Capisp
3.00	292	Clymenella zonalis	Clymzona
3.00	140	Glycera americana	Glycamer
1.00	64	Lyonsia hyalina	Lyonhyal
2.00	244	Macoma tenta	Macotent
1.00	160	Melinna cristata	Melicris
17.00	1	Oligochaeta sp	Oligsp
2.00	97	Prionospio pinnata	Priopinn
2.00	182	Scolelepis squamata	Scolsqua
3.00	145	Gyptis vittata	Gyptvitt
5.00	210	Neptys incisa	Neptinci
3.00	234	Cossura longocirrata	Cosslong
2.00	32	Ampelisca verrilli	Ampeverr
1.00	69	Tellina agilis	Tellagil

Group: NoyakBay
Sample unit: PEC269

Value	Code	Species	Code Name
1.00	63	Pista palmata	Pistpalm
3.00	16	Polydora sp	Polydora
29.00	25	Tharyx sp	Tharsp
9.00	30	Ampelisca vadorum	Ampevado
34.00	2	Capitellidae sp	Capisp
13.00	292	Clymenella zonalis	Clymzona
1.00	140	Glycera americana	Glycamer
1.00	244	Macoma tenta	Macotent
3.00	160	Melinna cristata	Melicris
9.00	7	Nephtys picta	Nephpict
10.00	1	Oligochaeta sp	Oligsp
3.00	182	Scolelepis squamata	Scolsqua
11.00	23	Sphaerosyllis hystrix	Sphahyst
1.00	18	Spiophanes bombyx	Spiobomb
10.00	11	Aricidea catherinae	Ariccath
1.00	145	Gyptis vittata	Gyptvitt
9.00	143	Ampharete arctica	Ampharct
1.00	146	Orbinia sp	Orbinia
1.00	210	Neptys incisa	Neptinci
3.00	66	Nucula proxima	Nucuprox
2.00	20	Exogone dispar	Exogdisp
2.00	234	Cossura longocirrata	Cosslong
1.00	166	Streblospio benedicti	Strebene
1.00	53	Panopeus herbstii	Panoherb
1.00	189	Brania clavata	Branclav
2.00	110	Syllides setosa	Syllseto
3.00	32	Ampelisca verrilli	Ampeverr
1.00	68	Ensis directus	Ensidiere
1.00	306	Terebellidae sp	Teresp
2.00	129	Unciola irrorata	Uncirro
1.00	214	Crangon septemspinosa	Cransept
1.00	134	Schistomeringos caecus	Schicaec

Group: NoyakBay
Sample unit: PEC270

Value	Code	Species	Code Name
3.00	291	Harmothoe sp	Harmsp
1.00	16	Polydora sp	Polydora
1.00	30	Ampelisca vadorum	Ampevado
45.00	2	Capitellidae sp	Capisp
4.00	292	Clymenella zonalis	Clymzona
4.00	64	Lyonsia hyalina	Lyonhyal
4.00	1	Oligochaeta sp	Oligsp

15.00	23	Sphaerosyllis hystrix	Sphahyst
19.00	11	Aricidea catherinae	Ariccath
2.00	143	Ampharete arctica	Ampharct
9.00	66	Nucula proxima	Nucuprox
1.00	62	Anadara transversa	Anadtran
1.00	119	Autolytus cornutus	Autocorn
2.00	46	Batea catharinensis	Batecath
7.00	20	Exogone dispar	Exogdisp
2.00	138	Isopoda sp	Isopsp
4.00	22	Sphaerosyllis erinaceus	Sphaerin
2.00	33	Lembos smithi	Lembsmit
2.00	53	Panopeus herbstii	Panoherb
4.00	189	Brania clavata	Branclav
3.00	37	Paracaprella tenius	Parateni
4.00	96	Paraphoxus spinosus	Paraspin
8.00	75	Crepidula fornicata	Crepforn
1.00	55	Heteromysis formosa	Heteform
12.00	21	Parapionosyllis longicirrata	Paralong
1.00	121	Stenothoe minuta	Stenminu
4.00	19	Brania wellfleetensis	Branwell
7.00	110	Syllides setosa	Syllseto
1.00	61	Anomia simplex	Anomsimp
2.00	295	Bittium alternatum	Bittalte
1.00	264	Scoloplos sp	Scolsp
1.00	60	Bivalvia sp	Bivasp
1.00	186	Jassa falcata	Jassfalc
1.00	134	Schistomerings caecus	Schicaec
3.00	280	Unciola sp	Uncisp

Group: NoyakBay
Sample unit: PEC271

Value	Code	Species	Code Name
22.00	30	Ampelisca vadorum	Ampevado
15.00	2	Capitellidae sp	Capisp
6.00	292	Clymenella zonalis	Clymzona
1.00	140	Glycera americana	Glycamer
7.00	64	Lyonsia hyalina	Lyonhyal
5.00	7	Nephtys picta	Nephpict
5.00	23	Sphaerosyllis hystrix	Sphahyst
12.00	11	Aricidea catherinae	Ariccath
8.00	143	Ampharete arctica	Ampharct
6.00	66	Nucula proxima	Nucuprox
26.00	46	Batea catharinensis	Batecath
22.00	20	Exogone dispar	Exogdisp
2.00	138	Isopoda sp	Isopsp
1.00	4	Odontosyllis fulgurans	Odonfulg
1.00	270	Sabellaria vulgaris	Sabevulg
2.00	22	Sphaerosyllis erinaceus	Sphaerin
1.00	39	Erichthonius sp	Ericsp
5.00	33	Lembos smithi	Lembsmit
3.00	41	Elasmopus levis	Elaslevi
1.00	53	Panopeus herbstii	Panoherb
1.00	189	Brania clavata	Branclav
4.00	37	Paracaprella tenius	Parateni
4.00	96	Paraphoxus spinosus	Paraspin
13.00	21	Parapionosyllis longicirrata	Paralong
1.00	121	Stenothoe minuta	Stenminu
1.00	19	Brania wellfleetensis	Branwell
4.00	110	Syllides setosa	Syllseto
3.00	32	Ampelisca verrilli	Ampeverr
2.00	68	Ensis directus	Ensidiire
3.00	264	Scoloplos sp	Scolsp
1.00	60	Bivalvia sp	Bivasp
1.00	89	Crassinella mactracea	Crasmact
1.00	280	Unciola sp	Uncisp
1.00	174	Paranaitis speciosa	Paraspec
1.00	14	Polygordius sp	Polygord

Group: NoyakBay
Sample unit: PEC272

Value	Code	Species	Code Name
2.00	212	Minuspio sp	Minusp
2.00	16	Polydora sp	Polydora
2.00	25	Tharyx sp	Tharsp
1.00	177	Acteocina canaliculata	Actecana
11.00	30	Ampelisca vadorum	Ampevado
28.00	2	Capitellidae sp	Capisp
14.00	292	Clymenella zonalis	Clymzona
1.00	140	Glycera americana	Glycamer
1.00	161	Ilyanassa trivittata	Ilyatriv
1.00	160	Melinna cristata	Melicris
5.00	7	Nephtys picta	Nephpict
6.00	1	Oligochaeta sp	Oligsp
5.00	18	Spiophanes bombyx	Spiobomb
21.00	11	Aricidea catherinæ	Ariccath
8.00	143	Ampharete arctica	Ampharct
2.00	66	Nucula proxima	Nucuprox
1.00	153	Asychis elongata	Asycelon
3.00	110	Syllides setosa	Syllseto
9.00	32	Ampelisca verrilli	Ampeverr
5.00	68	Ensis directus	Ensidiere
6.00	69	Tellina agilis	Tellagil
1.00	59	Pinnixa sp	Pinnixa
1.00	309	Spiochaetopterus oculatus	Spiocul
1.00	223	Turridae sp	Turrsp

Group: NoyakBay
Sample unit: PEC273

Value	Code	Species	Code Name
1.00	291	Harmothoe sp	Harmsp
1.00	16	Polydora sp	Polydora
1.00	25	Tharyx sp	Tharsp
5.00	30	Ampelisca vadorum	Ampevado
18.00	2	Capitellidae sp	Capisp
20.00	292	Clymenella zonalis	Clymzona
1.00	64	Lyonsia hyalina	Lyonhyal
4.00	7	Nephtys picta	Nephpict
22.00	1	Oligochaeta sp	Oligsp
1.00	23	Sphaerosyllis hystrix	Sphahyst
22.00	11	Aricidea catherinæ	Ariccath
2.00	145	Gyptis vittata	Gyptvitt
3.00	143	Ampharete arctica	Ampharct
5.00	210	Neptys incisa	Neptinci
1.00	32	Ampelisca verrilli	Ampeverr
1.00	68	Ensis directus	Ensidiere
2.00	69	Tellina agilis	Tellagil
1.00	306	Terebellidae sp	Teresp
1.00	129	Unciola irrorata	Uncirro
1.00	284	Decapoda megalopa	Decamega
2.00	59	Pinnixa sp	Pinnixa

Group: NoyakBay
Sample unit: PEC274

Value	Code	Species	Code Name
30.00	212	Minuspio sp	Minusp
3.00	16	Polydora sp	Polydora
41.00	25	Tharyx sp	Tharsp
2.00	177	Acteocina canaliculata	Actecana
6.00	2	Capitellidae sp	Capisp
1.00	292	Clymenella zonalis	Clymzona

1.00	64	Lyonsia hyalina	Lyonhyal
6.00	244	Macoma tenta	Macotent
1.00	160	Melinna cristata	Melicris
1.00	107	Pectinaria gouldii	Pectgoul
2.00	182	Scolelepis squamata	Scolsqua
3.00	145	Gyptis vittata	Gyptvitt
2.00	210	Neptys incisa	Neptinci
1.00	40	Listriella barnardi	Listbarn

Group: NoyakBay
Sample unit: PEC275

Value	Code	Species	Code Name
4.00	167	Amphioplus abditus	Amphabdi
3.00	212	Minuspio sp	Minusp
1.00	16	Polydora sp	Polydora
3.00	2	Capitellidae sp	Capisp
1.00	244	Macoma tenta	Macotent
1.00	160	Melinna cristata	Melicris
2.00	182	Scolelepis squamata	Scolsqua
2.00	210	Neptys incisa	Neptinci

Group: NoyakBay
Sample unit: PEC276

Value	Code	Species	Code Name
5.00	167	Amphioplus abditus	Amphabdi
7.00	212	Minuspio sp	Minusp
1.00	25	Tharyx sp	Tharsp
1.00	82	Ostracod A	OstrA
1.00	107	Pectinaria gouldii	Pectgoul
1.00	182	Scolelepis squamata	Scolsqua
3.00	210	Neptys incisa	Neptinci

Group: NoyakBay
Sample unit: PEC277

Value	Code	Species	Code Name
1.00	25	Tharyx sp	Tharsp
1.00	177	Acteocina canaliculata	Actecana
5.00	210	Neptys incisa	Neptinci

Group: NoyakBay
Sample unit: PEC278

Value	Code	Species	Code Name
151.00	16	Polydora sp	Polydora
6.00	2	Capitellidae sp	Capisp
1.00	292	Clymenella zonalis	Clymzona
8.00	244	Macoma tenta	Macotent
7.00	1	Oligochaeta sp	Oligsp
1.00	97	Prionospio pinnata	Priopinn
2.00	182	Scolelepis squamata	Scolsqua
1.00	145	Gyptis vittata	Gyptvitt
1.00	143	Ampharete arctica	Ampharct
2.00	210	Neptys incisa	Neptinci
3.00	234	Cossura longocirrata	Cosslong
5.00	153	Asychis elongata	Asycelon
2.00	55	Heteromyysis formosa	Heteform
1.00	59	Pinnixa sp	Pinnixa

Group: NoyakBay

Sample unit: PEC279

Value	Code	Species	Code Name
3.00	167	Amphioplus abditus	Amphabdi
3.00	291	Harmothoe sp	Harmsp
6.00	212	Minuspio sp	Minusp
2.00	63	Pista palmata	Pistpalm
39.00	16	Polydora sp	Polydora
8.00	25	Tharyx sp	Tharsp
1.00	2	Capitellidae sp	Capisp
4.00	292	Clymenella zonalis	Clymzona
1.00	140	Glycera americana	Glycamer
2.00	244	Macoma tenta	Macotent
3.00	1	Oligochaeta sp	Oligsp
2.00	97	Prionospio pinnata	Priopinn
1.00	182	Scolelepis squamata	Scolsqua
1.00	175	Turbonilla sp	Turbonsp
1.00	145	Gyptis vittata	Gyptvitt
1.00	210	Nephtys incisa	Neptinci
1.00	153	Asychis elongata	Asycelon
9.00	129	Unciola irrorata	Uncirro
1.00	284	Decapoda megalopa	Decamega

Group: NoyakBay
Sample unit: PEC280

Value	Code	Species	Code Name
1.00	167	Amphioplus abditus	Amphabdi
14.00	212	Minuspio sp	Minusp
3.00	25	Tharyx sp	Tharsp
9.00	2	Capitellidae sp	Capisp
1.00	292	Clymenella zonalis	Clymzona
8.00	244	Macoma tenta	Macotent
2.00	1	Oligochaeta sp	Oligsp
1.00	145	Gyptis vittata	Gyptvitt
4.00	210	Nephtys incisa	Neptinci
1.00	234	Cossura longocirrata	Cosslong
2.00	129	Unciola irrorata	Uncirro

Group: NoyakBay
Sample unit: PEC281

Value	Code	Species	Code Name
2.00	212	Minuspio sp	Minusp
1.00	16	Polydora sp	Polydora
3.00	2	Capitellidae sp	Capisp
1.00	292	Clymenella zonalis	Clymzona
4.00	244	Macoma tenta	Macotent
1.00	182	Scolelepis squamata	Scolsqua
1.00	234	Cossura longocirrata	Cosslong

Group: NoyakBay
Sample unit: PEC282

Value	Code	Species	Code Name
9.00	167	Amphioplus abditus	Amphabdi
11.00	212	Minuspio sp	Minusp
1.00	63	Pista palmata	Pistpalm
86.00	16	Polydora sp	Polydora
9.00	2	Capitellidae sp	Capisp
2.00	292	Clymenella zonalis	Clymzona
1.00	140	Glycera americana	Glycamer
1.00	7	Nephtys picta	Nephpict
3.00	1	Oligochaeta sp	Oligsp

1.00	97	Prionospio pinnata	Priopinn
1.00	182	Scolelepis squamata	Scolsqua
2.00	175	Turbonilla sp	Turbonsp
1.00	11	Aricidea catherinae	Ariccath
1.00	145	Gyptis vittata	Gyptvitt
2.00	143	Ampharete arctica	Ampharct
6.00	210	Neptys incisa	Neptinci
12.00	129	Unciola irrorata	Uncirro
1.00	214	Crangon septemspinosa	Cransept

Group: NoyakBay
Sample unit: PEC283

Value	Code	Species	Code Name
5.00	167	Amphioplus abditus	Amphabdi
11.00	212	Minuspio sp	Minusp
1.00	16	Polydora sp	Polydora
2.00	30	Ampelisca vadorum	Ampevado
49.00	2	Capitellidae sp	Capisp
64.00	292	Clymenella zonalis	Clymzona
2.00	140	Glycera americana	Glycamer
1.00	244	Macoma tenta	Macotent
4.00	160	Melinna cristata	Melicris
5.00	7	Nephtys picta	Nephpict
2.00	107	Pectinaria gouldii	Pectgoul
3.00	97	Prionospio pinnata	Priopinn
5.00	182	Scolelepis squamata	Scolsqua
1.00	175	Turbonilla sp	Turbonsp
1.00	145	Gyptis vittata	Gyptvitt
1.00	298	Nereis grayi	Neregray
3.00	210	Neptys incisa	Neptinci
1.00	32	Ampelisca verrilli	Ampeverr
1.00	214	Crangon septemspinosa	Cransept
1.00	59	Pinnixa sp	Pinnixa

Group: NoyakBay
Sample unit: PEC284

Value	Code	Species	Code Name
2.00	212	Minuspio sp	Minusp
2.00	30	Ampelisca vadorum	Ampevado
4.00	244	Macoma tenta	Macotent
1.00	107	Pectinaria gouldii	Pectgoul
2.00	97	Prionospio pinnata	Priopinn
1.00	210	Neptys incisa	Neptinci

Group: NoyakBay
Sample unit: PEC285

Value	Code	Species	Code Name
6.00	167	Amphioplus abditus	Amphabdi
2.00	291	Harmothoe sp	Harmsp
14.00	212	Minuspio sp	Minusp
7.00	16	Polydora sp	Polydora
1.00	99	Turbellaria sp	Turbelsp
1.00	177	Acteocina canaliculata	Actecana
1.00	30	Ampelisca vadorum	Ampevado
3.00	2	Capitellidae sp	Capisp
1.00	140	Glycera americana	Glycamer
2.00	244	Macoma tenta	Macotent
1.00	175	Turbonilla sp	Turbonsp
1.00	210	Neptys incisa	Neptinci
2.00	153	Asychis elongata	Asycelon
8.00	129	Unciola irrorata	Uncirro

Group: NoyakBay
Sample unit: PEC286

Value	Code	Species	Code Name
1.00	212	Minuspio sp	Minusp
1.00	63	Pista palmata	Pistpalm
2.00	16	Polydora sp	Polydora
2.00	177	Acteocina canaliculata	Actecana
31.00	2	Capitellidae sp	Capisp
124.00	292	Clymenella zonalis	Clymzona
1.00	140	Glycera americana	Glycamer
11.00	64	Lyonsia hyalina	Lyonhyal
32.00	244	Macoma tenta	Macotent
7.00	160	Melinna cristata	Melicris
3.00	7	Nephtys picta	Nephpict
2.00	1	Oligochaeta sp	Oligsp
3.00	82	Ostracod A	OstrA
1.00	97	Prionospio pinnata	Priopinn
2.00	182	Scolelepis squamata	Scolsqua
18.00	23	Sphaerosyllis hystrix	Sphahyst
33.00	11	Aricidea catherinæ	Ariccath
1.00	145	Gyptis vittata	Gyptvitt
3.00	143	Ampharete arctica	Ampharct
1.00	298	Nereis grayi	Neregray
3.00	210	Nephtys incisa	Neptinci
1.00	20	Exogone dispar	Exogdisp
1.00	234	Cossura longocirrata	Cosslong
7.00	19	Brania wellfleensis	Branwell
1.00	70	Mercenaria mercenaria	Mercmerc
1.00	110	Syllides setosa	Syllseto
2.00	32	Ampelisca verrilli	Ampeverr
1.00	68	Ensis directus	Ensidiire
2.00	69	Tellina agilis	Tellagil
2.00	200	Lumbrineris fragilis	Lumbfrag
10.00	273	Nicomache lumbricalis	Nicolumb

Group: NoyakBay
Sample unit: PEC287

Value	Code	Species	Code Name
1.00	167	Amphioplus abditus	Amphabdi
1.00	16	Polydora sp	Polydora
6.00	30	Ampelisca vadorum	Ampevado
56.00	2	Capitellidae sp	Capisp
87.00	292	Clymenella zonalis	Clymzona
1.00	140	Glycera americana	Glycamer
1.00	161	Ilyanassa trivittata	Ilyatriv
5.00	64	Lyonsia hyalina	Lyonhyal
14.00	244	Macoma tenta	Macotent
8.00	160	Melinna cristata	Melicris
1.00	7	Nephtys picta	Nephpict
8.00	97	Prionospio pinnata	Priopinn
23.00	182	Scolelepis squamata	Scolsqua
1.00	23	Sphaerosyllis hystrix	Sphahyst
1.00	18	Spiophanes bombyx	Spiobomb
21.00	11	Aricidea catherinæ	Ariccath
2.00	143	Ampharete arctica	Ampharct
1.00	66	Nucula proxima	Nucuprox
2.00	20	Exogone dispar	Exogdisp
2.00	234	Cossura longocirrata	Cosslong
1.00	33	Lembos smithi	Lembsmit
1.00	153	Asychis elongata	Asycelon
3.00	19	Brania wellfleensis	Branwell
1.00	70	Mercenaria mercenaria	Mercmerc
1.00	32	Ampelisca verrilli	Ampeverr
3.00	69	Tellina agilis	Tellagil
1.00	258	Owenia fusiformis	Owenfusi

4.00	307	Pista Cristata	PistCris
3.00	309	Spiochaetopterus oculatus	Spiocul
14.00	200	Lumbrineris fragilis	Lumbfrag
4.00	273	Nicomache lumbricalis	Nicolumb

Group: NoyakBay
Sample unit: PEC288

Value	Code	Species	Code Name
3.00	167	Amphioplus abditus	Amphabdi
1.00	291	Harmothoe sp	Harmsp
1.00	140	Glycera americana	Glycamer
15.00	244	Macoma tenta	Macotent
1.00	11	Aricidea catherinae	Ariccath
2.00	153	Asychis elongata	Asycelon

Group: GPecEast
Sample unit: PEC289

Value	Code	Species	Code Name
1.00	291	Harmothoe sp	Harmsp
2.00	16	Polydora sp	Polydora
7.00	25	Tharyx sp	Tharsp
13.00	30	Ampelisca vadorum	Ampevado
1.00	86	Asabellides oculata	Asabocul
23.00	2	Capitellidae sp	Capisp
1.00	292	Clymenella zonalis	Clymzona
34.00	1	Oligochaeta sp	Oligsp
5.00	82	Ostracod A	OstrA
2.00	23	Sphaerosyllis hystrix	Sphahyst
2.00	18	Spiophanes bombyx	Spiobomb
12.00	11	Aricidea catherinae	Ariccath
2.00	143	Ampharete arctica	Ampharct
65.00	66	Nucula proxima	Nucuprox
3.00	62	Anadara transversa	Anadtran
7.00	46	Batea catharinensis	Batecath
1.00	20	Exogone dispar	Exogdisp
1.00	234	Cossura longocirrata	Cosslong
1.00	53	Panopeus herbstii	Panoherb
1.00	37	Paracaprella tenius	Parateni
2.00	96	Paraphoxus spinosus	Paraspin
94.00	75	Crepidula fornicate	Crepforn
8.00	21	Parapionosyllis longicirrata	Paralong
1.00	19	Brania wellfleetensis	Branwell
1.00	110	Syllides setosa	Syllseto
1.00	68	Ensis directus	Ensidiire
1.00	61	Anomia simplex	Anomsimp
3.00	289	Balanus amphitrite	Balaamph
7.00	295	Bittium alternatum	Bittalte
24.00	69	Tellina agilis	Tellagil
1.00	294	Urosalpinx cinerea	Uroscine
1.00	277	Harmothoe imbricata	Harmimbr
1.00	264	Scoloplos sp	Scolsp
1.00	35	Caprella penantis	Caprpena
1.00	52	Dyspanopeus sayi	Dypssayi
10.00	14	Polygordius sp	Polygord
4.00	43	Pagurus longicarpus	Pagulong
2.00	273	Nicomache lumbricalis	Nicolumb
2.00	136	Eupleura caudata	Euplcaud
1.00	148	Sabella microphthalmia	Sabemicr

Group: GPecEast
Sample unit: PEC290

Value	Code	Species	Code Name

2.00	167	Amphioplus abditus	Amphabdi
2.00	212	Minuspio sp	Minusp
4.00	16	Polydora sp	Polydora
9.00	25	Tharyx sp	Tharsp
5.00	30	Ampelisca vadorum	Ampevado
1.00	86	Asabellides oculata	Asabocul
44.00	2	Capitellidae sp	Capisp
92.00	292	Clymenella zonalis	Clymzona
1.00	140	Glycera americana	Glycamer
1.00	238	Glycinde solitaria	Glycsoli
6.00	64	Lyonsia hyalina	Lyonhyal
6.00	244	Macoma tenta	Macotent
4.00	160	Melinna cristata	Melicris
10.00	7	Nephtys picta	Nephpict
4.00	1	Oligochaeta sp	Oligsp
9.00	82	Ostracod A	OstrA
2.00	107	Pectinaria gouldii	Pectgoul
4.00	182	Scolelepis squamata	Scolsqua
6.00	23	Sphaerosyllis hystrix	Sphahyst
6.00	11	Aricidea catherinae	Ariccath
1.00	145	Gyptis vittata	Gyptvitt
1.00	143	Ampharete arctica	Ampharct
1.00	210	Nephtys incisa	Neptinci
2.00	66	Nucula proxima	Nucuprox
1.00	62	Anadara transversa	Anadtran
4.00	234	Cossura longocirrata	Cosslong
12.00	19	Brania wellfleetensis	Branwell
5.00	69	Tellina agilis	Tellagil
2.00	310	Solenidae sp	Solesp
1.00	258	Owenia fusiformis	Owenfusi
1.00	264	Scoloplos sp	Scolsp
1.00	280	Unciola sp	Uncisp
1.00	307	Pista Cristata	PistCris
6.00	273	Nicomache lumbricalis	Nicolumb
1.00	115	Goniadella gracilis	Gonigrac
1.00	293	Microphthalmus sczelkowii	Micrscze
2.00	8	Nereis succinea	Neresucc

Group: GPecEast
 Sample unit: PEC291

Value	Code	Species	Code Name
1.00	167	Amphioplus abditus	Amphabdi
1.00	291	Harmothoe sp	Harmsp
1.00	212	Minuspio sp	Minusp
23.00	25	Tharyx sp	Tharsp
4.00	30	Ampelisca vadorum	Ampevado
2.00	86	Asabellides oculata	Asabocul
134.00	2	Capitellidae sp	Capisp
108.00	292	Clymenella zonalis	Clymzona
2.00	140	Glycera americana	Glycamer
9.00	238	Glycinde solitaria	Glycsoli
4.00	64	Lyonsia hyalina	Lyonhyal
15.00	244	Macoma tenta	Macotent
5.00	160	Melinna cristata	Melicris
2.00	7	Nephtys picta	Nephpict
48.00	1	Oligochaeta sp	Oligsp
2.00	82	Ostracod A	OstrA
2.00	107	Pectinaria gouldii	Pectgoul
8.00	23	Sphaerosyllis hystrix	Sphahyst
2.00	11	Aricidea catherinae	Ariccath
2.00	143	Ampharete arctica	Ampharct
18.00	66	Nucula proxima	Nucuprox
10.00	62	Anadara transversa	Anadtran
6.00	46	Batea catharinensis	Batecath
2.00	13	Eumida sanguinea	Eumisang
1.00	20	Exogone dispar	Exogdisp
3.00	4	Odontosyllis fulgorans	Odonfulg
2.00	22	Sphaerosyllis erinaceus	Sphaerin

1.00	51	Pandora gouldiana	Pandgoul
1.00	50	Oxyurostylis smithi	Oxyusmit
2.00	53	Panopeus herbstii	Panoherb
1.00	96	Paraphoxus spinosus	Paraspin
85.00	75	Crepidula fornicata	Crepforn
2.00	21	Parapionosyllis longicirrata	Paralong
8.00	19	Brania wellfleetensis	Branwell
2.00	70	Mercenaria mercenaria	Mercmerc
8.00	61	Anomia simplex	Anomsimp
378.00	289	Balanus amphitrite	Balaamph
25.00	295	Bittium alternatum	Bittalte
10.00	69	Tellina agilis	Tellagil
2.00	294	Urosalpinx cinerea	Uroscine
2.00	310	Solenidae sp	Solesp
5.00	258	Owenia fusiformis	Owenfusi
1.00	277	Harmothoe imbricata	Harmimbr
1.00	52	Dyspanopeus sayi	Dypsayi
1.00	223	Turridae sp	Turrsp
4.00	273	Nicomache lumbricalis	Nicolumb
3.00	8	Nereis succinea	Neresucc
50.00	76	Crepidula plana	Crepplan

Group: GPecEast
Sample unit: PEC292

Value	Code	Species	Code Name
37.00	212	Minuspio sp	Minusp
28.00	16	Polydora sp	Polydora
34.00	25	Tharyx sp	Tharsp
1.00	2	Capitellidae sp	Capisp
1.00	292	Clymenella zonalis	Clymzona
1.00	140	Glycera americana	Glycamer
1.00	238	Glycinde solitaria	Glycsoli
1.00	1	Oligochaeta sp	Oligsp
1.00	210	Neptys incisa	Neptinci
1.00	264	Scoloplos sp	Scolsp

Group: GPecEast
Sample unit: PEC293

Value	Code	Species	Code Name
1.00	63	Pista palmata	Pistpalm
9.00	25	Tharyx sp	Tharsp
2.00	177	Acteocina canaliculata	Actecana
8.00	30	Ampelisca vadorum	Ampevado
1.00	86	Asabellides oculata	Asabocul
117.00	2	Capitellidae sp	Capisp
89.00	292	Clymenella zonalis	Clymzona
2.00	140	Glycera americana	Glycamer
2.00	161	Ilyanassa trivittata	Ilyatriv
5.00	64	Lyonsia hyalina	Lyonhyal
1.00	244	Macoma tenta	Macotent
15.00	160	Melinna cristata	Melicris
3.00	7	Nephtys picta	Nephpict
9.00	1	Oligochaeta sp	Oligsp
2.00	107	Pectinaria gouldii	Pectgoul
16.00	23	Sphaerosyllis hystrix	Sphahyst
18.00	11	Aricidea catherinae	Ariccath
8.00	143	Ampharete arctica	Ampharct
7.00	66	Nucula proxima	Nucuprox
1.00	13	Eumida sanguinea	Eumisang
2.00	20	Exogone dispar	Exogdisp
2.00	22	Sphaerosyllis erinaceus	Sphaerin
42.00	205	Polydora ligni	Polylign
2.00	51	Pandora gouldiana	Pandgoul
1.00	50	Oxyurostylis smithi	Oxyusmit
1.00	75	Crepidula fornicata	Crepforn

5.00	21	Parapionosyllis longicirrata	Paralong
8.00	19	Brania wellfleetensis	Branwell
5.00	70	Mercenaria mercenaria	Mercmerc
7.00	32	Ampelisca verrilli	Ampeverr
1.00	61	Anomia simplex	Anomsimp
4.00	289	Balanus amphitrite	Balaamph
2.00	168	Hydroïdes dianthus	Hydrdian
22.00	69	Tellina agilis	Tellagil
3.00	310	Solenidae sp	Solesp
1.00	258	Owenia fusiformis	Owenfusi
1.00	214	Crangon septemspinosa	Cransept
1.00	156	Spiro sp	Spiosp
1.00	273	Nicomache lumbricalis	Nicolumb
12.00	8	Nereis succinea	Neresucc

Group: GPecEast
Sample unit: PEC294

Value	Code	Species	Code Name
1.00	63	Pista palmata	Pistpalm
16.00	16	Polydora sp	Polydora
3.00	25	Tharyx sp	Tharsp
1.00	177	Acteocina canaliculata	Actecana
9.00	30	Ampelisca vadorum	Ampevado
85.00	2	Capitellidae sp	Capisp
66.00	292	Clymenella zonalis	Clymzona
2.00	140	Glycera americana	Glycamer
1.00	238	Glycinde solitaria	Glycsoli
2.00	64	Lyonsia hyalina	Lyonhyal
16.00	244	Macoma tenta	Macotent
15.00	160	Melinna cristata	Melicris
3.00	7	Nephtys picta	Nephpict
13.00	1	Oligochaeta sp	Oligsp
1.00	97	Prionospio pinnata	Priopinn
5.00	182	Scolelepis squamata	Scolsqua
6.00	23	Sphaerosyllis hystrix	Sphahyst
6.00	11	Aricidea catherinae	Ariccath
3.00	143	Ampharete arctica	Ampharct
14.00	66	Nucula proxima	Nucuprox
1.00	20	Exogone dispar	Exogdisp
1.00	283	Monoculodes sp	Monosp
3.00	51	Pandora gouldiana	Pandgoul
3.00	21	Parapionosyllis longicirrata	Paralong
6.00	19	Brania wellfleetensis	Branwell
2.00	70	Mercenaria mercenaria	Mercmerc
2.00	32	Ampelisca verrilli	Ampeverr
1.00	105	Rudilemboides naglei	Rudinagl
10.00	289	Balanus amphitrite	Balaamph
14.00	69	Tellina agilis	Tellagil
2.00	310	Solenidae sp	Solesp
1.00	129	Unciola irrorata	Uncirro
1.00	156	Spiro sp	Spiosp
1.00	223	Turridae sp	Turrsp
4.00	8	Nereis succinea	Neresucc
1.00	151	Solemya velum	Solelevelu

Group: GPecEast
Sample unit: PEC295

Value	Code	Species	Code Name
2.00	291	Harmothoe sp	Harmsp
3.00	212	Minuspio sp	Minusp
6.00	16	Polydora sp	Polydora
6.00	25	Tharyx sp	Tharsp
1.00	30	Ampelisca vadorum	Ampevado
258.00	2	Capitellidae sp	Capisp
7.00	292	Clymenella zonalis	Clymzona

1.00	140	Glycera americana	Glycamer
7.00	238	Glycinde solitaria	Glycsoli
3.00	64	Lyonsia hyalina	Lyonhyal
2.00	160	Melinna cristata	Melicris
42.00	1	Oligochaeta sp	Oligsp
10.00	82	Ostracod A	OstrA
19.00	23	Sphaerosyllis hystrix	Sphahyst
22.00	11	Aricidea catherinae	Ariccath
1.00	298	Nereis grayi	Neregray
1.00	132	Nicolea sp	Nicosp
8.00	66	Nucula proxima	Nucuprox
4.00	46	Batea catharinensis	Batecath
6.00	20	Exogone dispar	Exogdisp
1.00	4	Odontosyllis fulgurans	Odonfulg
1.00	123	Podarke obscura	Podaobsc
49.00	22	Sphaerosyllis erinaceus	Sphaerin
3.00	33	Lembos smithi	Lembsmit
1.00	36	Luconacia incerta	Lucoince
1.00	41	Elasmopus levius	Elaslevi
4.00	53	Panopeus herbstii	Panoherb
1.00	189	Brania clavata	Branclav
1.00	37	Paracaprella tenius	Parateni
1.00	96	Paraphoxus spinosus	Paraspin
7.00	75	Crepidula fornicate	Crepforn
4.00	55	Heteromysis formosa	Heteform
1.00	110	Syllides setosa	Syllseto
5.00	131	Prionospio heterobranchia	Priohete
10.00	105	Rudilemboides naglei	Rudinagl
5.00	83	Ostracod B	OstrB
2.00	69	Tellina agilis	Tellagil
1.00	310	Solenidae sp	Solesp
1.00	264	Scoloplos sp	Scolsp
3.00	35	Caprella penantis	Caprpena
1.00	78	Chaetopleura apiculata	Chaeapic
1.00	223	Turridae sp	Turrsp
1.00	76	Crepidula plana	Crepplan
2.00	42	Melita nitida	Meliniti

Group: GPecEast
 Sample unit: PEC296

Value	Code	Species	Code Name
1.00	16	Polydora sp	Polydora
1.00	25	Tharyx sp	Tharsp
23.00	2	Capitellidae sp	Capisp
2.00	292	Clymenella zonalis	Clymzona
1.00	238	Glycinde solitaria	Glycsoli
67.00	1	Oligochaeta sp	Oligsp
3.00	82	Ostracod A	OstrA
1.00	23	Sphaerosyllis hystrix	Sphahyst
25.00	11	Aricidea catherinae	Ariccath
15.00	66	Nucula proxima	Nucuprox
1.00	46	Batea catharinensis	Batecath
1.00	50	Oxyurostylis smithi	Oxyusmit
1.00	53	Panopeus herbstii	Panoherb
3.00	75	Crepidula fornicate	Crepforn
5.00	21	Parapionosyllis longicirrata	Paralong
9.00	110	Syllides setosa	Syllseto
2.00	32	Ampelisca verrilli	Ampeverr
4.00	105	Rudilemboides naglei	Rudinagl
1.00	61	Anomia simplex	Anomsimp
1.00	295	Bittium alternatum	Bittalte
12.00	71	Gemma gemma	Gemmagemm
1.00	168	Hydroides dianthus	Hydrdian
1.00	83	Ostracod B	OstrB
1.00	74	Seila adamsi	Seiladam
9.00	69	Tellina agilis	Tellagil
6.00	264	Scoloplos sp	Scolsp
5.00	89	Crassinella mactracea	Crasmact

3.00	134	Schistomerings caecus	Schicaec
49.00	14	Polygordius sp	Polygord
1.00	293	Microphtalmus sczelkowii	Micrscze
3.00	8	Nereis succinea	Neresucc
1.00	151	Solemya velum	Solevelu
1.00	109	Naticidae sp	Natisp

Group: GPecEast
Sample unit: PEC297

Value	Code	Species	Code Name
13.00	16	Polydora sp	Polydora
4.00	25	Tharyx sp	Tharsp
1.00	30	Ampelisca vadorum	Ampevado
37.00	2	Capitellidae sp	Capisp
64.00	292	Clymenella zonalis	Clymzona
2.00	140	Glycera americana	Glycamer
7.00	238	Glycinde solitaria	Glycsoli
5.00	64	Lyonsia hyalina	Lyonhyal
4.00	244	Macoma tenta	Macotent
5.00	160	Melinna cristata	Melicris
4.00	1	Oligochaeta sp	Oligsp
3.00	82	Ostracod A	OstrA
2.00	107	Pectinaria gouldii	Pectgoul
5.00	97	Prionospio pinnata	Priopinn
1.00	175	Turbanilla sp	Turbonsp
1.00	11	Aricidea catherinae	Ariccath
1.00	145	Gyptis vittata	Gyptvitt
1.00	137	Mulinia lateralis	Mulilate
2.00	210	Neptys incisa	Neptinci
1.00	66	Nucula proxima	Nucuprox
3.00	62	Anadara transversa	Anadtran
2.00	20	Exogone dispar	Exogdisp
1.00	22	Sphaerosyllis erinaceus	Sphaerin
2.00	51	Pandora gouldiana	Pandgoul
3.00	153	Asychis elongata	Asycelon
3.00	75	Crepidula fornicate	Crepforn
3.00	70	Mercenaria mercenaria	Mercmerc
1.00	32	Ampelisca verrilli	Ampeverr
5.00	105	Rudilemboides naglei	Rudinagl
1.00	61	Anomia simplex	Anomsimp
19.00	289	Balanus amphitrite	Balaamph
2.00	295	Bittium alternatum	Bittalte
2.00	71	Gemma gemma	Gemmgeom
1.00	168	Hydroides dianthus	Hydrdian
9.00	69	Tellina agilis	Tellagil
1.00	310	Solenidae sp	Solesp
2.00	258	Owenia fusiformis	Owenfusi
2.00	129	Unciola irrorata	Uncirro
1.00	309	Spiochaetopterus oculatus	Spiocul
29.00	8	Nereis succinea	Neresucc
1.00	76	Crepidula plana	Crepplan

Group: GPecEast
Sample unit: PEC298

Value	Code	Species	Code Name
1.00	167	Amphioplus abditus	Amphabdi
6.00	16	Polydora sp	Polydora
12.00	25	Tharyx sp	Tharsp
3.00	30	Ampelisca vadorum	Ampevado
70.00	2	Capitellidae sp	Capisp
42.00	292	Clymenella zonalis	Clymzona
1.00	140	Glycera americana	Glycamer
9.00	238	Glycinde solitaria	Glycsoli
1.00	64	Lyonsia hyalina	Lyonhyal
10.00	244	Macoma tenta	Macotent

7.00	160	Melinna cristata	Melicris
2.00	7	Nephtys picta	Nephpict
3.00	1	Oligochaeta sp	Oligsp
25.00	82	Ostracod A	OstrA
4.00	107	Pectinaria gouldii	Pectgoul
4.00	97	Prionospio pinnata	Priopinn
3.00	182	Scolelepis squamata	Scolsqua
8.00	23	Sphaerosyllis hystrix	Sphahyst
1.00	11	Aricidea catherinae	Ariccath
4.00	145	Gyptis vittata	Gyptvitt
4.00	20	Exogone dispar	Exogdisp
1.00	123	Podarke obscura	Podaobsc
1.00	22	Sphaerosyllis erinaceus	Sphaerin
11.00	153	Asychis elongata	Asycelon
1.00	70	Mercenaria mercenaria	Mercmerc
1.00	105	Rudilemboides naglei	Rudinagl
1.00	69	Tellina agilis	Tellagil
1.00	310	Solenidae sp	Solesp
4.00	258	Owenia fusiformis	Owenfusi
1.00	129	Unciola irrorata	Uncirro
2.00	273	Nicomache lumbricalis	Nicolumb
1.00	8	Nereis succinea	Neresucc
1.00	151	Solemya velum	Solevelu

Group: GPecEast
 Sample unit: PEC299

Value	Code	Species	Code Name
2.00	167	Amphioplus abditus	Amphabdi
2.00	212	Minuspio sp	Minusp
5.00	16	Polydora sp	Polydora
5.00	25	Tharyx sp	Tharsp
3.00	177	Acteocina canaliculata	Actecana
148.00	2	Capitellidae sp	Capisp
22.00	292	Clymenella zonalis	Clymzona
2.00	140	Glycera americana	Glycamer
10.00	238	Glycinde solitaria	Glycsoli
2.00	244	Macoma tenta	Macotent
1.00	160	Melinna cristata	Melicris
3.00	7	Nephtys picta	Nephpict
18.00	1	Oligochaeta sp	Oligsp
16.00	97	Prionospio pinnata	Priopinn
38.00	23	Sphaerosyllis hystrix	Sphahyst
3.00	145	Gyptis vittata	Gyptvitt
1.00	143	Ampharete arctica	Ampharct
2.00	66	Nucula proxima	Nucuprox
1.00	209	Rictaxis punctostriatus	Rictpunc
3.00	20	Exogone dispar	Exogdisp
3.00	4	Odontosyllis fulgorans	Odonfulg
3.00	123	Podarke obscura	Podaobsc
5.00	22	Sphaerosyllis erinaceus	Sphaerin
1.00	234	Cossura longocirrata	Cosslong
3.00	153	Asychis elongata	Asycelon
1.00	55	Heteromyysis formosa	Heteform
2.00	70	Mercenaria mercenaria	Mercmerc
2.00	131	Prionospio heterobranchia	Priohete
1.00	83	Ostracod B	OstrB
3.00	69	Tellina agilis	Tellagil
1.00	258	Owenia fusiformis	Owenfusi
1.00	306	Terebellidae sp	Teresp
1.00	214	Crangon septemspinosa	Cransept
1.00	284	Decapoda megalopa	Decamega
1.00	273	Nicomache lumbricalis	Nicolumb
3.00	8	Nereis succinea	Neresucc
4.00	76	Crepidula plana	Crepplan

Group: GPecEast
 Sample unit: PEC300

Value	Code	Species	Code Name
9.00	167	Amphioplus abditus	Amphabdi
45.00	212	Minuspio sp	Minusp
1.00	63	Pista palmata	Pistpalm
31.00	16	Polydora sp	Polydora
1.00	140	Glycera americana	Glycamer
1.00	244	Macoma tenta	Macotent
1.00	107	Pectinaria gouldii	Pectgoul
1.00	210	Neptys incisa	Neptinci
6.00	153	Asychis elongata	Asycelon
5.00	129	Unciola irrorata	Uncirro
1.00	309	Spiochaetopterus oculatus	Spiocul

Group: GPecEast
Sample unit: PEC301

Value	Code	Species	Code Name
9.00	167	Amphioplus abditus	Amphabdi
4.00	291	Harmothoe sp	Harmsp
19.00	212	Minuspio sp	Minusp
2.00	16	Polydora sp	Polydora
1.00	153	Asychis elongata	Asycelon
7.00	129	Unciola irrorata	Uncirro

Group: GPecEast
Sample unit: PEC302

Value	Code	Species	Code Name
4.00	167	Amphioplus abditus	Amphabdi
2.00	291	Harmothoe sp	Harmsp
53.00	212	Minuspio sp	Minusp
4.00	16	Polydora sp	Polydora
6.00	99	Turbellaria sp	Turbelsp
1.00	2	Capitellidae sp	Capisp
1.00	140	Glycera americana	Glycamer
1.00	238	Glycinde solitaria	Glycsoli
1.00	160	Melinna cristata	Melicris
1.00	175	Turbonilla sp	Turbonsp
1.00	210	Neptys incisa	Neptinci
4.00	153	Asychis elongata	Asycelon
4.00	129	Unciola irrorata	Uncirro
1.00	59	Pinnixa sp	Pinnixa
1.00	309	Spiochaetopterus oculatus	Spiocul

Group: GPecEast
Sample unit: PEC303

Value	Code	Species	Code Name
9.00	167	Amphioplus abditus	Amphabdi
3.00	291	Harmothoe sp	Harmsp
23.00	212	Minuspio sp	Minusp
8.00	16	Polydora sp	Polydora
2.00	107	Pectinaria gouldii	Pectgoul
1.00	210	Neptys incisa	Neptinci
2.00	153	Asychis elongata	Asycelon
6.00	129	Unciola irrorata	Uncirro
2.00	59	Pinnixa sp	Pinnixa

Total number of species occurrences in data = 2306

***** End of Data Summarization *****