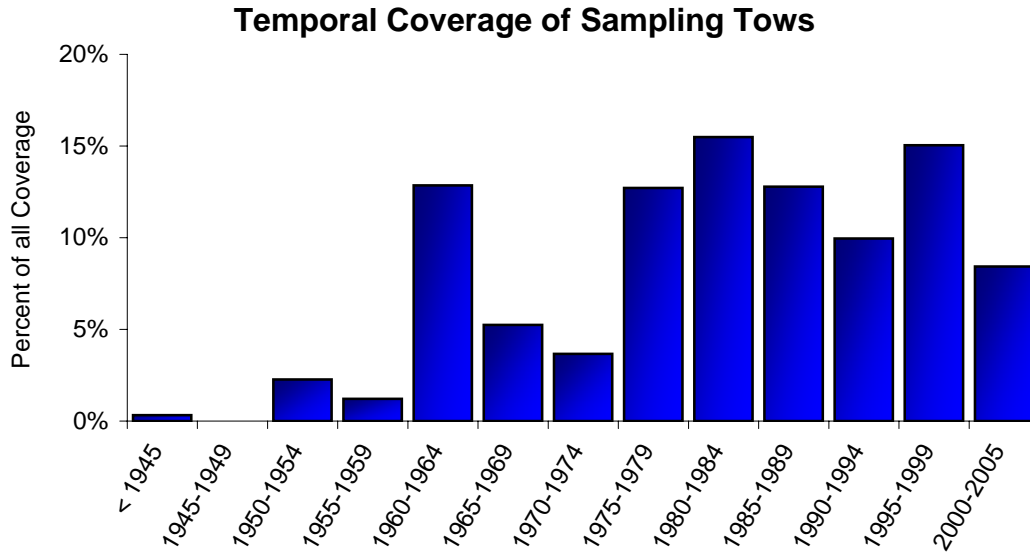


APPENDICES A - F

In each data distribution figure of Appendices A – F, a graphical dot indicates the presence of members of that plankton taxa or biomass group within the 1-degree latitude-longitude region underneath that graphical dot.

Table B0: Content characteristics of all Zooplankton data

Number of Sampling Tows: 47,298
 Number of Observations: 961,389



Top Twenty most frequent Observations

Rank	# of OBS	ITIS-TSN	DESCRIPTION
1	32,616	85257	<i>Copepoda spp.</i>
2	28,734	158650	<i>Chaetognatha spp.</i>
3	23,077	85767	<i>Centropages typicus</i>
4	22,139	88802	<i>Oithona spp.</i>
5	20,585	85272	<i>Calanus finmarchicus</i>
6	19,841	95496	<i>Euphausiacea spp.</i>
7	19,546	85741	<i>Metridia lucens</i>
8	18,410	85371	<i>Pseudocalanus minutus</i>
9	16,440	64358	<i>Polychaeta spp.</i>
10	15,766	86084	<i>Acartia spp.</i>
11	15,091	95107	<i>Hyperiidea spp.</i>
12	14,774	76333	<i>Thecosomata spp.</i>
13	14,773	-5002	<i>Zooplankton spp.</i>
14	14,595	85766	<i>Centropages hamatus</i>
15	14,169	93294	<i>Amphipoda spp.</i>
16	14,092	158727	<i>Sagitta spp.</i>
17	14,071	84195	<i>Ostracoda spp.</i>
18	13,774	51268	<i>Siphonophora spp.</i>
19	13,700	159664	<i>Appendicularia (aka "larvacea")</i>
20	12,514	85263	<i>Calanus spp.</i>

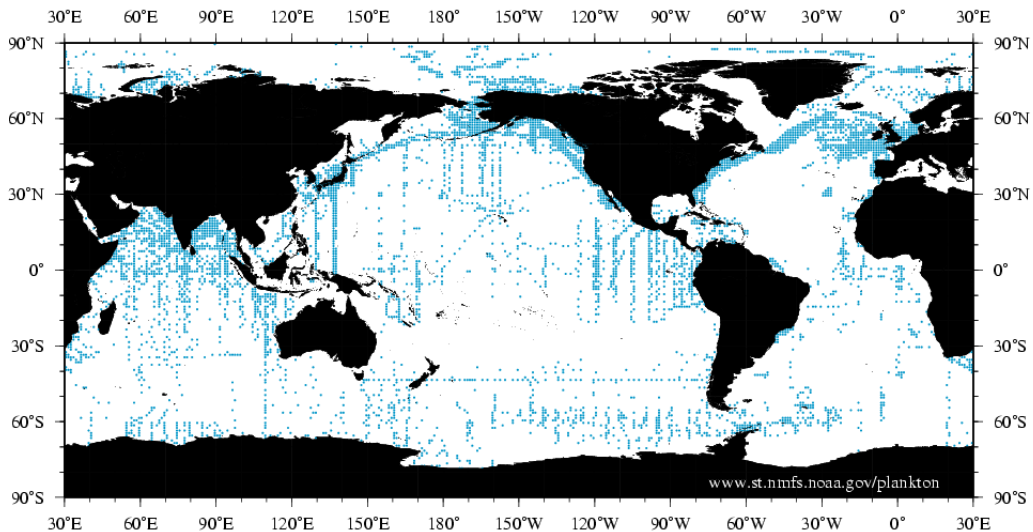


Figure B0: Distribution of all ZOOPLANKTON observations.

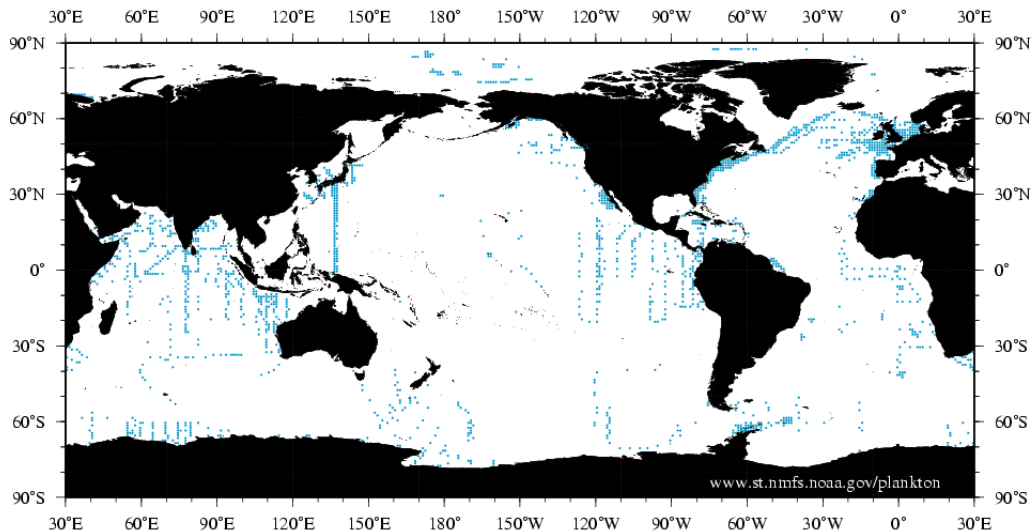


Figure B0.1: Distribution of winter (Dec.-Feb.) ZOOPLANKTON observations.

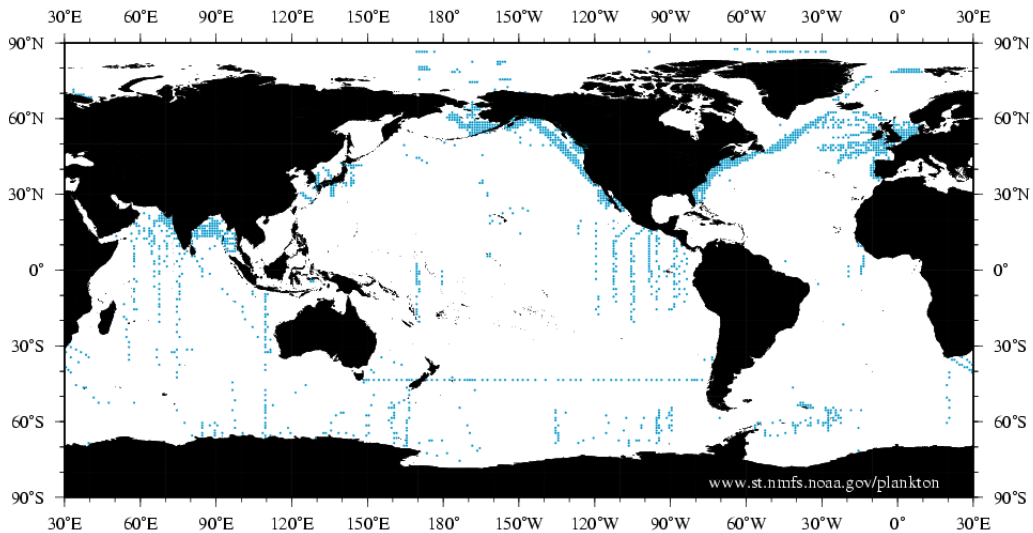


Figure B0.2: Distribution of spring (Mar.-May) ZOOPLANKTON observations.

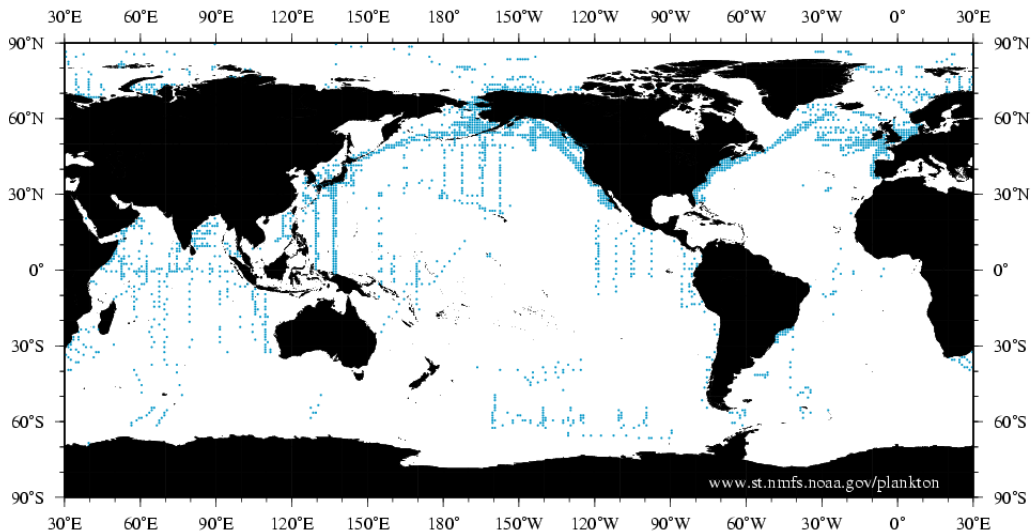


Figure B0.3: Distribution of summer (Jun.-Aug.) ZOOPLANKTON observations.

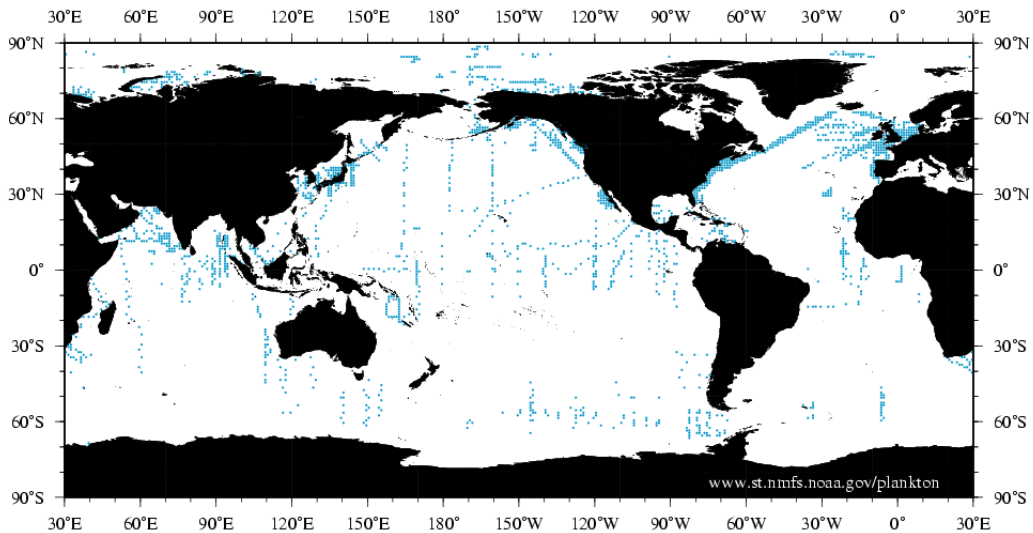
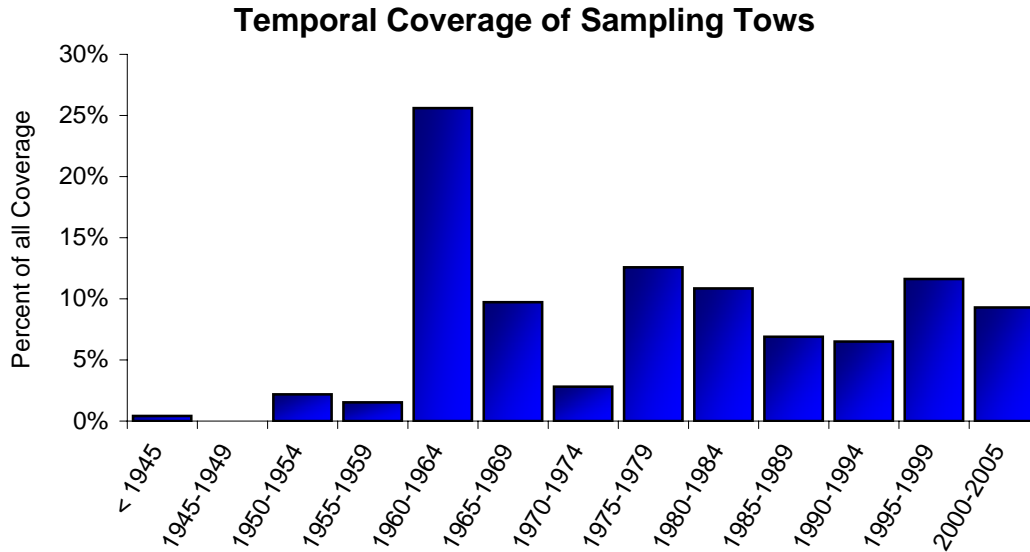


Figure B0.4: Distribution of fall (Sep.-Nov.) ZOOPLANKTON observations.

Table B1: Content characteristics of all Cnidaria data

Number of Sampling Tows: 18,522
 Number of Observations: 46,767



Top Twenty most frequent Observations

Rank	# of OBS	ITIS-TSN	DESCRIPTION
1	13,774	51268	<i>Siphonophora</i> spp.
2	8,217	48738	<i>Cnidaria</i> spp.
3	5,550	48739	<i>Hydrozoa</i> spp.
4	4,621	51094	<i>Aglantha digitalis</i>
5	3,914	-5009	<i>Jellyfish</i> spp.
6	2,840	51302	<i>Dimophyes arctica</i>
7	2,147	51938	<i>Anthozoa</i> spp.
8	2,109	51483	<i>Scyphozoa</i> spp.
9	1,909	51265	<i>Velella</i> spp.
10	1,907	51260	<i>Porpita</i> spp.
11	1,906	51435	<i>Physalia</i> spp.
12	1,139	51388	<i>Nanomia cara</i>
13	784	49536	<i>Phialidium</i> spp.
14	543	51297	<i>Muggiaea atlantica</i>
15	465	51093	<i>Aglantha</i> spp.
16	447	51226	<i>Solmissus</i> spp.
17	341	49537	<i>Phialidium gregarium</i>
18	285	51296	<i>Muggiaea</i> spp.
19	282	48740	<i>Hydroida</i> spp.
20	268	51280	<i>Lensia conoidea</i>

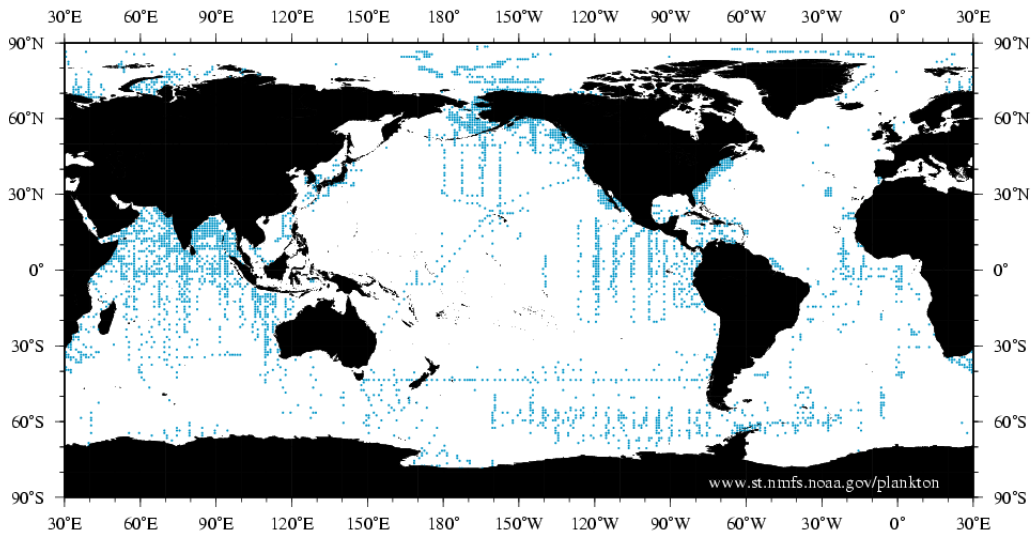
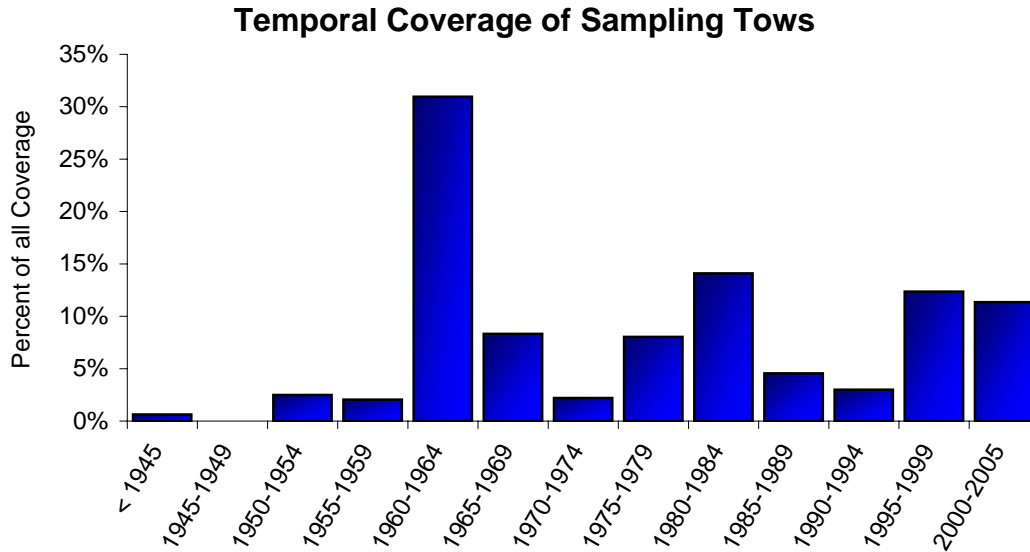


Figure B1: Distribution of Cnidaria observations.

Table B2: Content characteristics of all Ctenophora data

Number of Sampling Tows: 2,134
 Number of Observations: 3,029



Top Twenty most frequent Observations

Rank	# of OBS	ITIS-TSN	DESCRIPTION
1	4,890	53856	<i>Ctenophora spp.</i>
2	534	53861	<i>Pleurobrachia spp.</i>
3	394	53954	<i>Beroe spp.</i>
4	381	53863	<i>Pleurobrachia brachei</i>
5	249	53868	<i>Hormiphora cucumis</i>
6	41	53862	<i>Pleurobrachia pileus</i>
7	35	53881	<i>Mertensia ovum</i>
8	31	53867	<i>Hormiphora spp.</i>
9	21	53962	<i>Thalassocalyce inconstans</i>
10	19	53903	<i>Bolinopsis spp.</i>
11	10	53858	<i>Tentaculata spp.</i>
12	3	53955	<i>Beroe abyssicola</i>
13	2	53904	<i>Bolinopsis infundibulum</i>
14	2	53901	<i>Lobata spp.</i>
15	2	-7271	<i>Hormiphoro palmata</i>
16	1	53879	<i>Mertensia spp.</i>

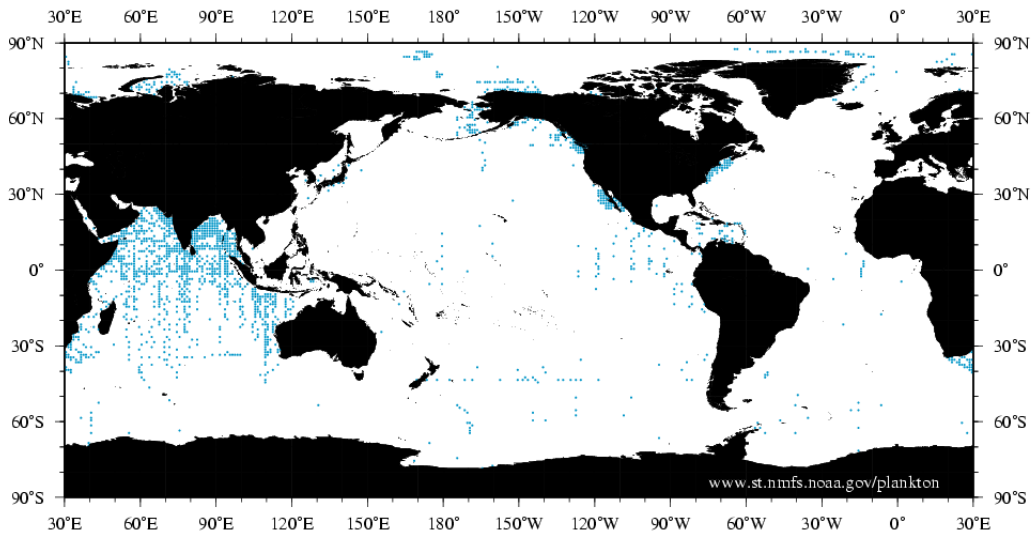
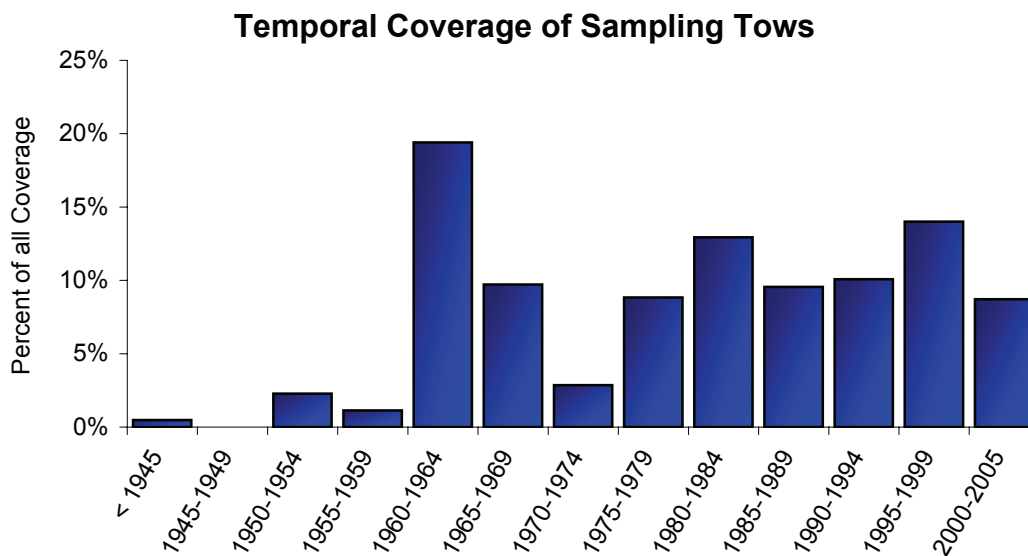


Figure B2: Distribution of Ctenophora observations.

Table B3: Content characteristics of all Mollusca data

Number of Sampling Tows: 18,156
 Number of Observations: 46,599



Top Twenty most frequent Observations

Rank	# of OBS	ITIS-TSN	DESCRIPTION
1	14,774	76333	<i>Thecosomata spp.</i>
2	11,685	69459	<i>Gastropoda spp.</i>
3	8,915	79118	<i>Bivalvia spp.</i>
4	6,174	76337	<i>Spiratella spp.</i>
5	5,620	82326	<i>Cephalopoda spp.</i>
6	4,976	331672	<i>Heteropoda spp.</i>
7	4,837	76340	<i>Limacina helicina</i>
8	4,099	69458	<i>Mollusca spp.</i>
9	2,900	78089	<i>Clione limacina</i>
10	2,227	78062	<i>Gymnosomata spp.</i>
11	1,969	78156	<i>Nudibranchia spp.</i>
12	1,922	72387	<i>Janthina spp.</i>
13	779	-6022	<i>Heteropoda + pteropoda</i>
14	771	76351	<i>Limacina retroversa</i>
15	679	76352	<i>Spiratella retroversa</i>
16	332	76371	<i>Clio pyramidata</i>
17	330	76336	<i>Limacina spp.</i>
18	314	72386	<i>Janthinidae spp.</i>
19	276	76343	<i>Limacina helicina pacifica</i>
20	226	82115	<i>Scaphopoda spp.</i>

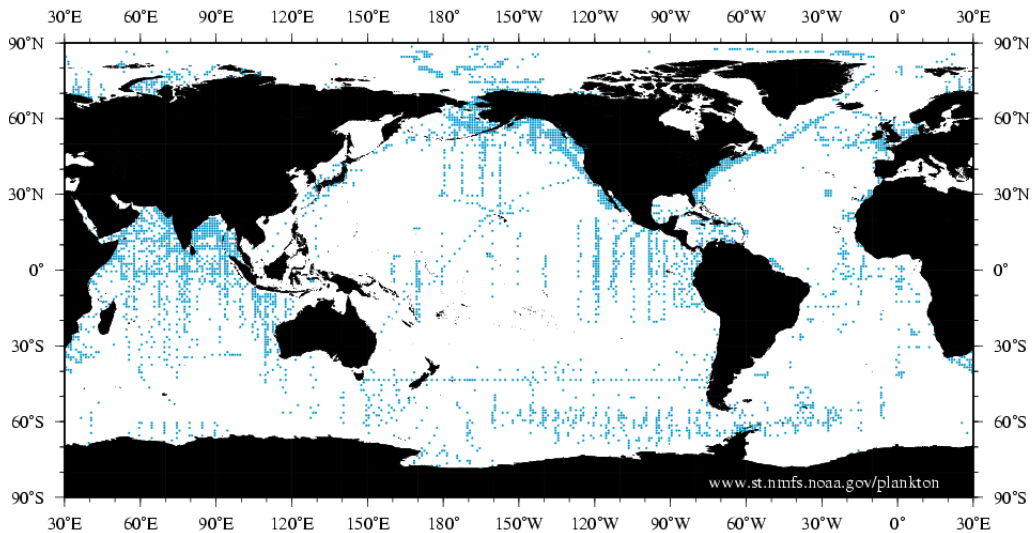
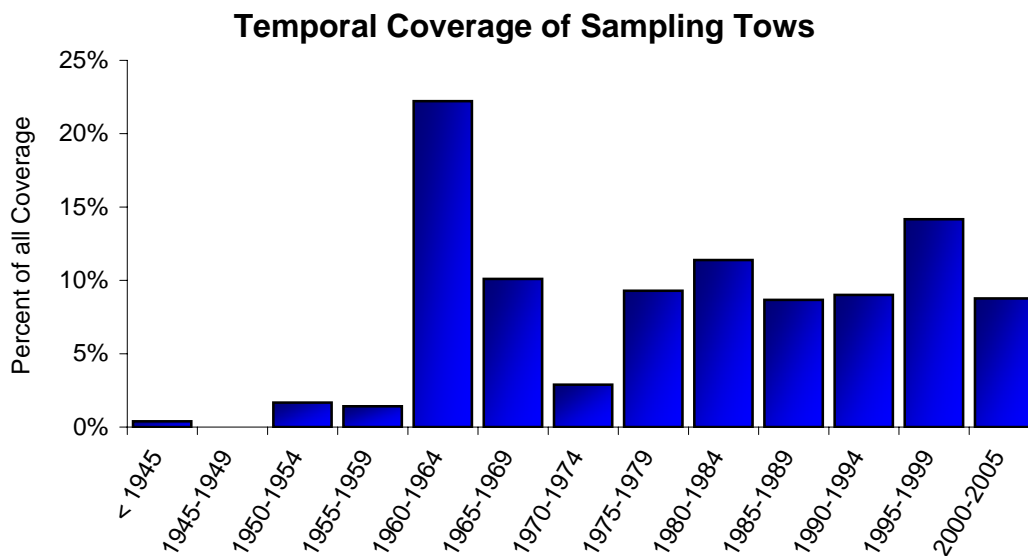


Figure B3: Distribution of Mollusca observations.

Table B3.1: Content characteristics of all Gastropoda data

Number of Sampling Tows: 14,955
 Number of Observations: 34,394



Top Twenty most frequent Observations

Rank	# of OBS	ITIS-TSN	DESCRIPTION
1	14,774	76333	<i>Thecosomata spp.</i>
2	11,685	69459	<i>Gastropoda spp.</i>
3	6,174	76337	<i>Spiratella spp.</i>
4	4,976	331672	<i>Heteropoda spp.</i>
5	4,837	76340	<i>Limacina helicina</i>
6	2,900	78089	<i>Clione limacina</i>
7	2,227	78062	<i>Gymnosomata spp.</i>
8	1,969	78156	<i>Nudibranchia spp.</i>
9	1,922	72387	<i>Janthina spp.</i>
10	779	-6022	<i>Heteropoda + pteropoda</i>
11	771	76351	<i>Limacina retroversa</i>
12	679	76352	<i>Spiratella retroversa</i>
13	332	76371	<i>Clio pyramidata</i>
14	330	76336	<i>Limacina spp.</i>
15	314	72386	<i>Janthinidae spp.</i>
16	276	76343	<i>Limacina helicina pacifica</i>
17	217	72839	<i>Atlanta spp.</i>
18	194	78088	<i>Clione spp.</i>
19	107	76422	<i>Corolla spectabilis</i>
20	81	72838	<i>Atlantidae spp.</i>

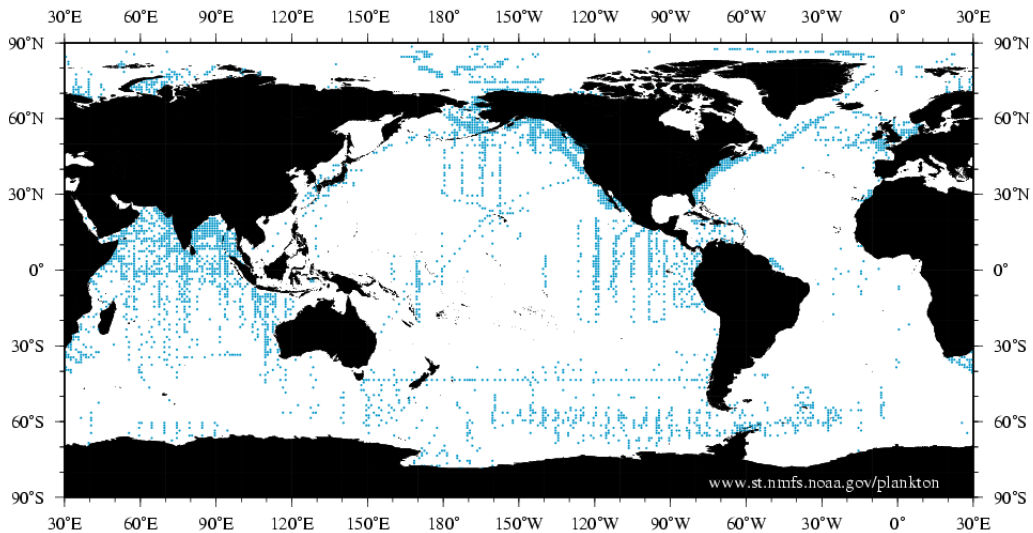
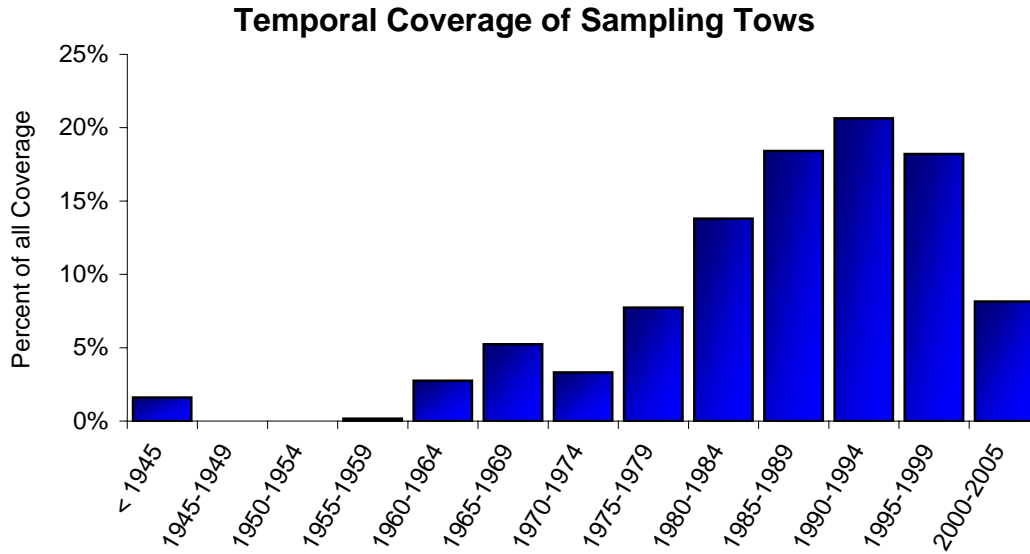


Figure B3.1: Distribution of Mollusca- Gastropoda observations.

Table B3.2: Content characteristics of all Bivalvia data

Number of Sampling Tows: 2,220
 Number of Observations: 2,437



Top Twenty most frequent Observations

Rank	# of OBS	ITIS-TSN	DESCRIPTION
1	8,915	79118	<i>Bivalvia spp.</i>
2	9	-8662	<i>Nereidae nectochaete</i>

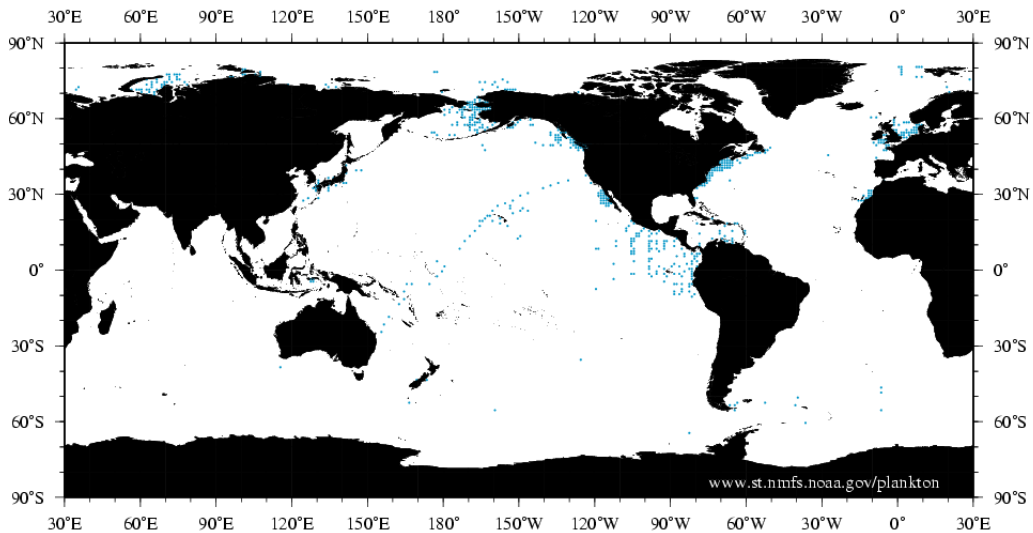
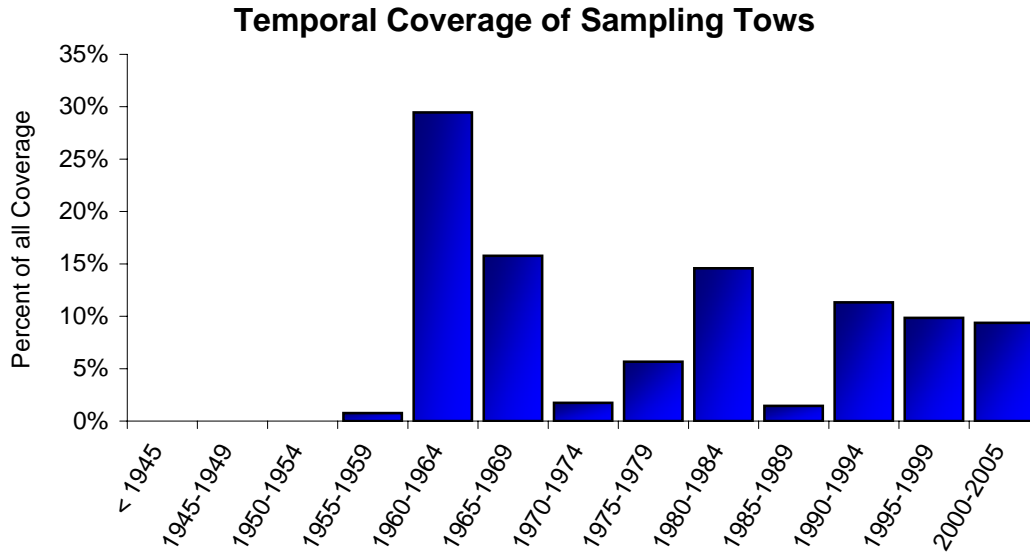


Figure B3.2: Distribution of Mollusca- Bivalvia observations.

Table B3.3: Content characteristics of all Cephalopoda data

Number of Sampling Tows: 3,261
 Number of Observations: 3,795



Top Twenty most frequent Observations

Rank	# of OBS	ITIS-TSN	DESCRIPTION
1	5,620	82326	<i>Cephalopoda spp.</i>
2	183	82418	<i>Gonatus spp.</i>
3	115	82589	<i>Octopoda spp.</i>
4	62	-5015	<i>Squid spp.</i>
5	60	-7278	<i>Decembrachiata spp.</i>
6	31	-8684	<i>Teuthoniidae spp.</i>
7	30	-8683	<i>Teuthoida spp.</i>
8	22	82548	<i>Chiroteuthis spp.</i>
9	19	205734	<i>Galiteuthis spp.</i>
10	12	82549	<i>Chiroteuthis veranyi</i>
11	12	82405	<i>Pterygioteuthis giardi</i>
12	10	82655	<i>Japetella diaphana</i>
13	10	82415	<i>Gonatopsis spp.</i>
14	10	82397	<i>Enoploteuthidae spp.</i>
15	10	-7641	<i>Rhynchoteuthion spp.</i>
16	9	82414	<i>Gonatidae spp.</i>
17	9	82368	<i>Myopsida spp.</i>
18	9	-8607	<i>Desomoteuthis spp.</i>
19	8	556517	<i>Liocranchia reinhardti</i>
20	8	205733	<i>Helicocranchia pfefferi</i>

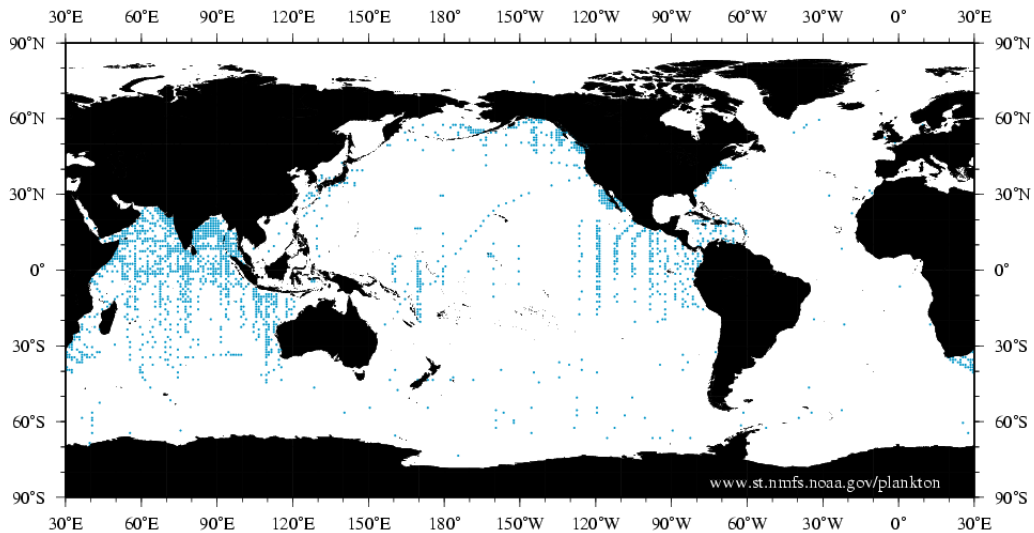
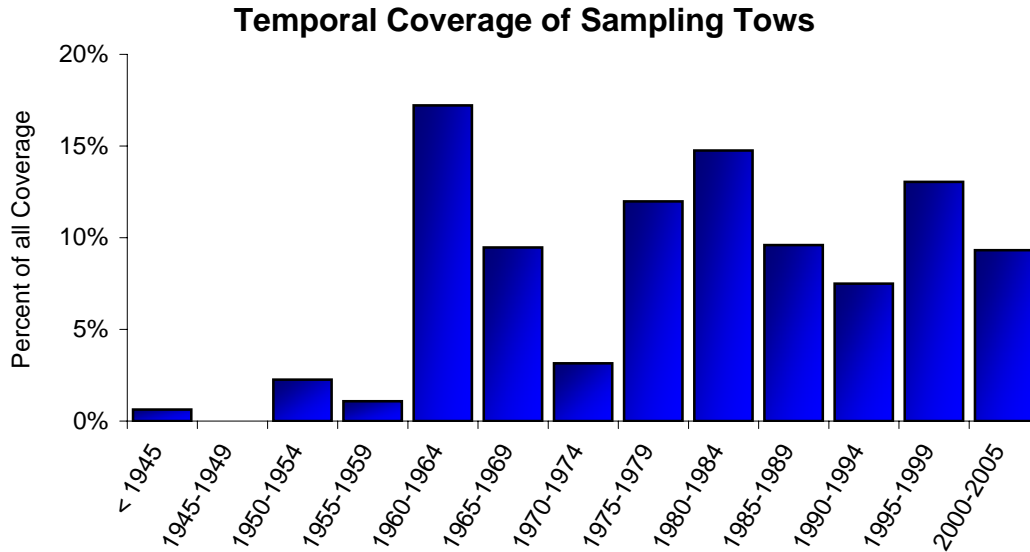


Figure B3.3: Distribution of Mollusca- Cephalopoda observations.

Table B4: Content characteristics of all Annelida data

Number of Sampling Tows: 13,905
 Number of Observations: 27,617



Top Twenty most frequent Observations

Rank	# of OBS	ITIS-TSN	DESCRIPTION
1	16,440	64358	<i>Polychaeta</i> spp.
2	3,061	65459	<i>Tomopteridae</i> spp.
3	1,669	65460	<i>Tomopteris</i> spp.
4	1,441	65462	<i>Tomopteris septentrionalis</i>
5	1,127	66781	<i>Spionidae</i> spp.
6	872	64357	<i>Annelida</i> spp.
7	543	-5010	<i>Worms</i> spp.
8	514	-7282	<i>Typhloscolex mulleri</i>
9	328	64397	<i>Polynoidae</i> spp.
10	246	65464	<i>Tomopteris elegans</i>
11	163	-8690	<i>Typhloscolex</i> spp.
12	137	67096	<i>Chaetopterus</i> spp.
13	125	65423	<i>Pelagobia longicirrata</i>
14	107	65463	<i>Tomopteris pacifica</i>
15	95	67644	<i>Oweniidae</i> spp.
16	82	-8686	<i>Tomopteris cavallii</i>
17	73	65450	<i>Sagitella kowalewskii</i>
18	71	65452	<i>Typhloscolex meulleri</i>
19	66	67042	<i>Magelonidae</i> spp.
20	63	65465	<i>Tomopteris helgolandica</i>

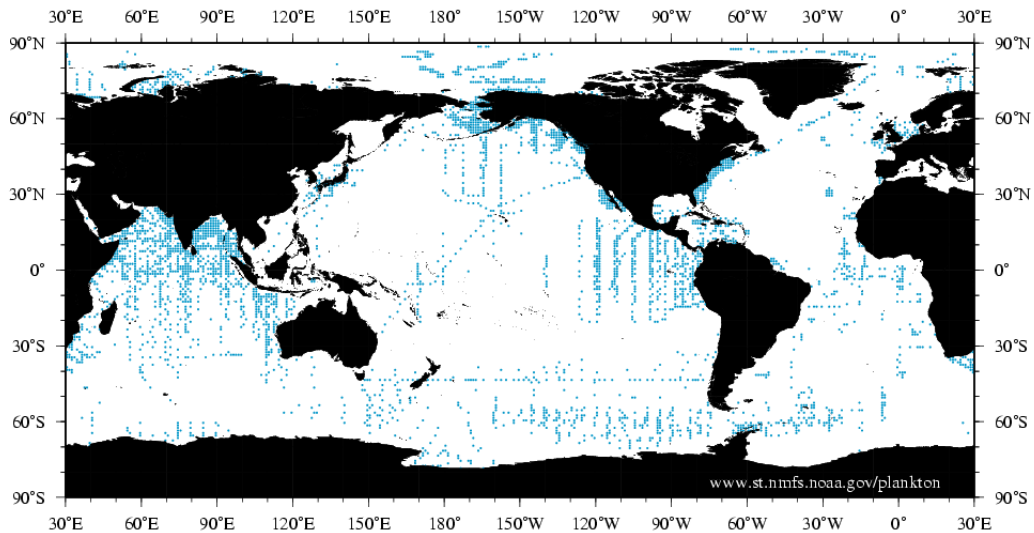
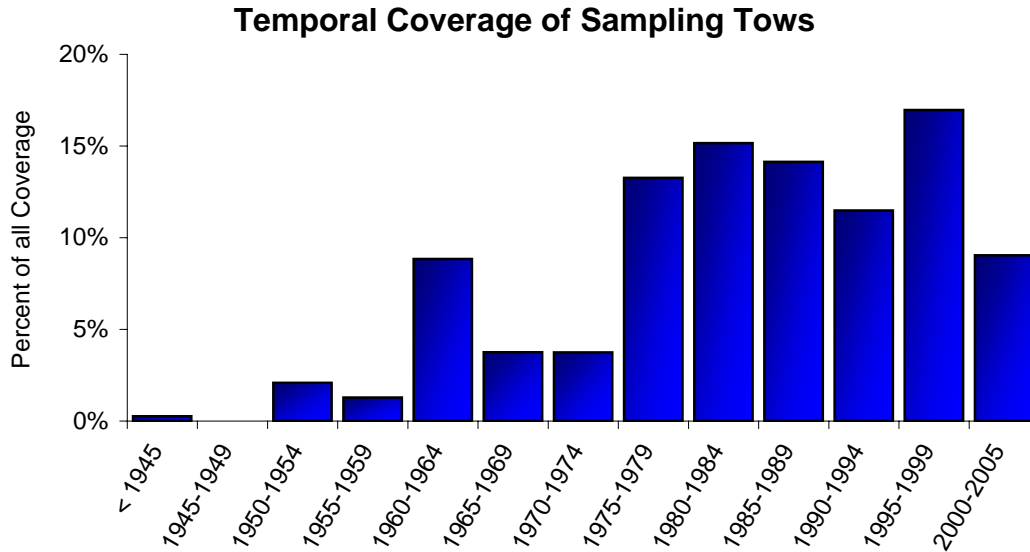


Figure B4: Distribution of Annelida observations.

Table B5: Content characteristics of all Crustacean data

Number of Sampling Tows: 41,891
 Number of Observations: 691,200



Top Twenty most frequent Observations

Rank	# of OBS	ITIS-TSN	DESCRIPTION
1	32,616	85257	<i>Copepoda spp.</i>
2	23,077	85767	<i>Centropages typicus</i>
3	22,139	88802	<i>Oithona spp.</i>
4	20,585	85272	<i>Calanus finmarchicus</i>
5	19,841	95496	<i>Euphausiacea spp.</i>
6	19,546	85741	<i>Metridia lucens</i>
7	18,410	85371	<i>Pseudocalanus minutus</i>
8	15,766	86084	<i>Acartia spp.</i>
9	15,091	95107	<i>Hyperiidea spp.</i>
10	14,595	85766	<i>Centropages hamatus</i>
11	14,169	93294	<i>Amphipoda spp.</i>
12	14,071	84195	<i>Ostracoda spp.</i>
13	12,514	85263	<i>Calanus spp.</i>
14	10,636	89433	<i>Cirripedia spp.</i>
15	10,018	95599	<i>Decapoda spp.</i>
16	9,999	85877	<i>Temora longicornis</i>
17	9,146	85323	<i>Paracalanus parvus</i>
18	8,787	83960	<i>Evadne spp.</i>
19	8,655	85734	<i>Metridia spp.</i>
20	8,580	85369	<i>Pseudocalanus spp.</i>

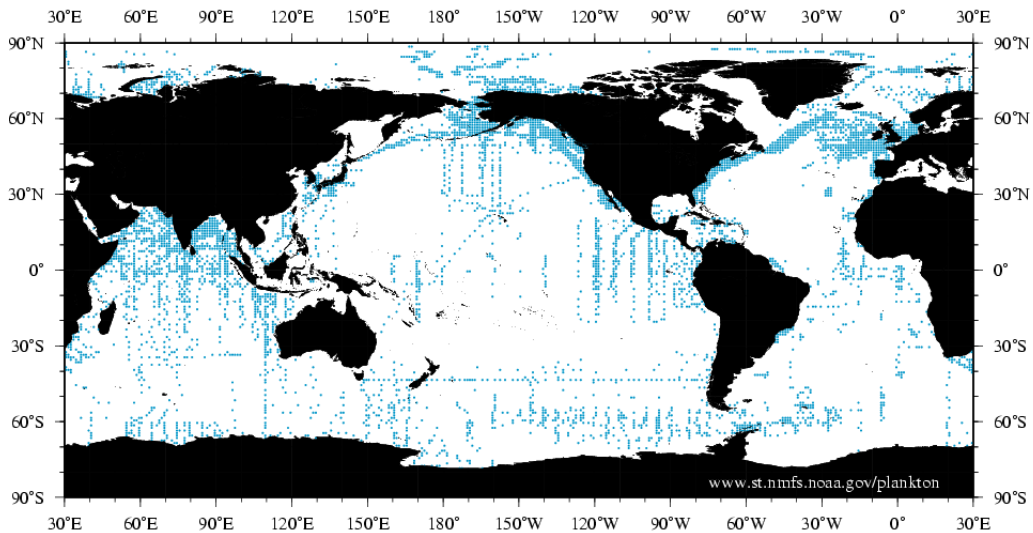
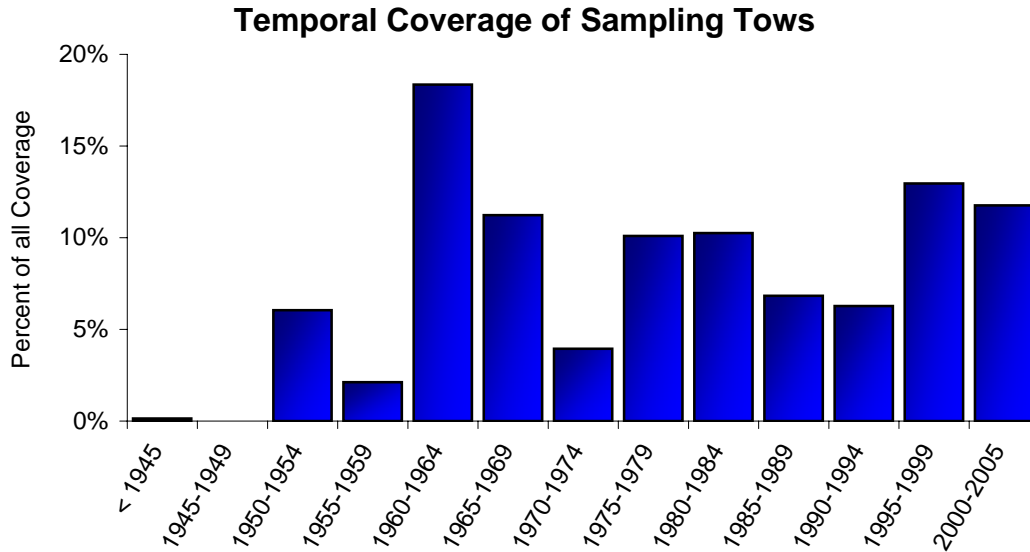


Figure B5: Distribution of Crustaceans observations.

Table B5.1: Content characteristics of all Ostracoda data

Number of Sampling Tows: 11,111
 Number of Observations: 19,119



Top Twenty most frequent Observations

Rank	# of OBS	ITIS-TSN	DESCRIPTION
1	14,071	84195	<i>Ostracoda spp.</i>
2	964	84325	<i>Conchoecia spp.</i>
3	877	-8692	<i>Halocypridiformes conchoecia</i>
4	823	-8608	<i>Discoconchoecia elegans</i>
5	583	-8602	<i>Conchoecia magna</i>
6	254	84196	<i>Myodocopina spp.</i>
7	144	-8587	<i>Alacia minor</i>
8	137	-8667	<i>Orthoconchoecia secernenda</i>
9	118	-8671	<i>Porroecia spinirostris</i>
10	107	84331	<i>Conchoecia borealis</i>
11	86	-8655	<i>Mikroconchoecia acuticosta</i>
12	75	-8588	<i>Alacia pseudoalata</i>
13	71	-8648	<i>Metaconchoecia inflata</i>
14	59	-8650	<i>Metaconchoecia skogsbergi</i>
15	46	84329	<i>Conchoecia elegans</i>
16	46	-8586	<i>Alacia spp.</i>
17	45	-8646	<i>Metaconchoecia discoveryi</i>
18	36	-8603	<i>Conchoecilla daphnoides</i>
19	33	-8647	<i>Metaconchoecia fowleri</i>
20	25	84324	<i>Conchoaeidae spp.</i>

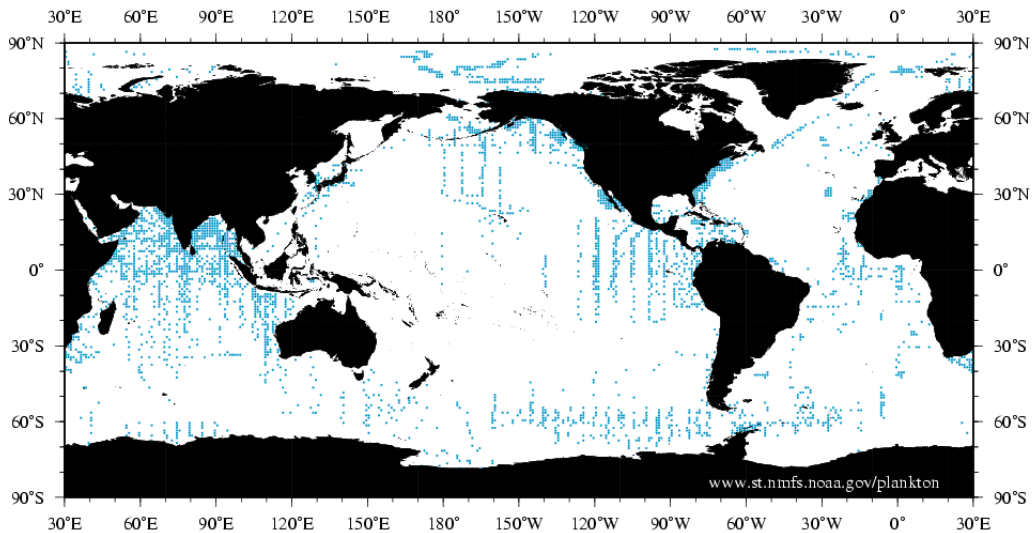
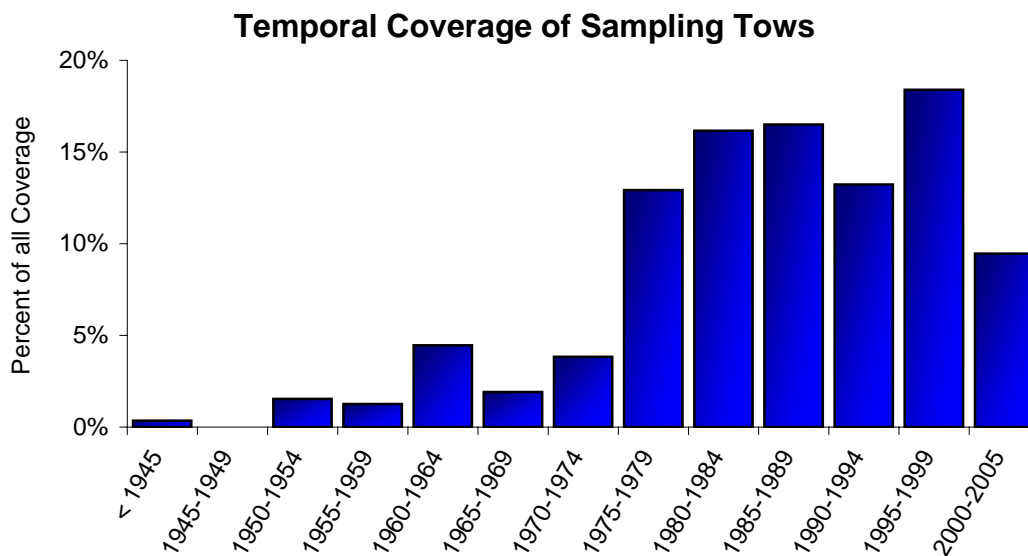


Figure B5.1: Distribution of Crustacea- Ostracoda observations.

Table B5.2: Content characteristics of all Copepoda data

Number of Sampling Tows: 38,011
 Number of Observations: 495,377



Top Twenty most frequent Observations

Rank	# of OBS	ITIS-TSN	DESCRIPTION
1	32,616	85257	<i>Copepoda spp.</i>
2	23,077	85767	<i>Centropages typicus</i>
3	22,139	88802	<i>Oithona spp.</i>
4	20,585	85272	<i>Calanus finmarchicus</i>
5	19,546	85741	<i>Metridia lucens</i>
6	18,410	85371	<i>Pseudocalanus minutus</i>
7	15,766	86084	<i>Acartia spp.</i>
8	14,595	85766	<i>Centropages hamatus</i>
9	12,514	85263	<i>Calanus spp.</i>
10	9,999	85877	<i>Temora longicornis</i>
11	9,146	85323	<i>Paracalanus parvus</i>
12	8,655	85734	<i>Metridia spp.</i>
13	8,580	85369	<i>Pseudocalanus spp.</i>
14	7,696	86087	<i>Acartia longiremis</i>
15	6,165	85322	<i>Paracalanus spp.</i>
16	6,116	85258	<i>Calanoida spp.</i>
17	5,806	88805	<i>Oithona similis</i>
18	4,835	85353	<i>Clausocalanus arcuicornis</i>
19	4,391	88540	<i>Oncaea spp.</i>
20	4,353	85300	<i>Eucalanus spp.</i>

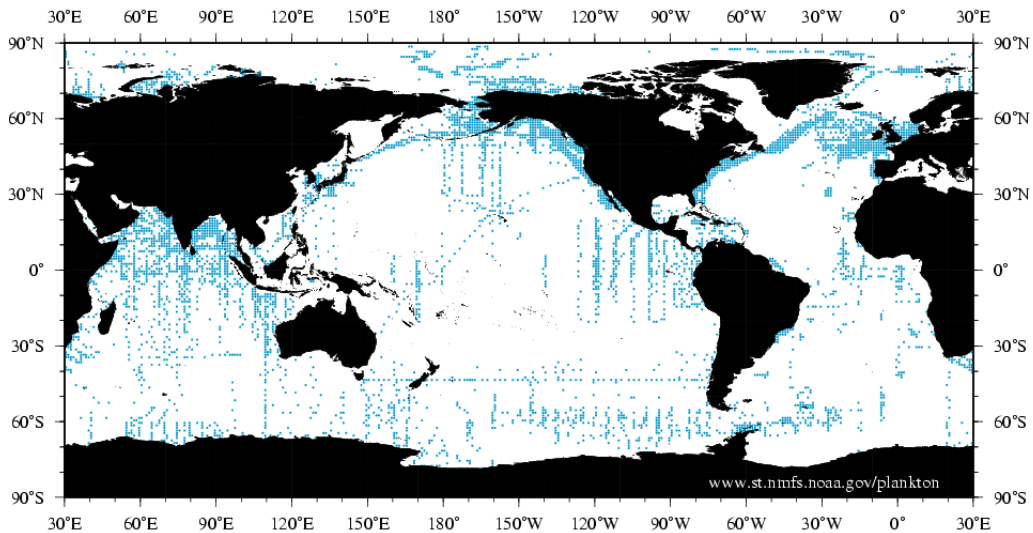
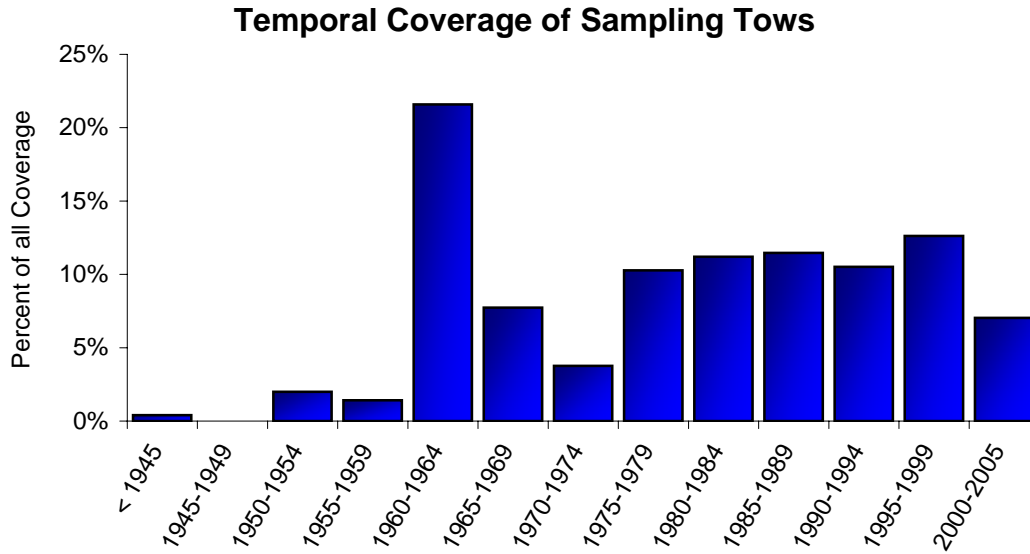


Figure B5.2: Distribution of Crustacea- Copepoda observations.

Table B5.3: Content characteristics of all Cirripedia data

Number of Sampling Tows: 6,123
 Number of Observations: 8,934



Top Twenty most frequent Observations

Rank	# of OBS	ITIS-TSN	DESCRIPTION
1	10,636	89433	<i>Cirripedia spp.</i>
2	3,938	89599	<i>Balanidae spp.</i>
3	1,909	89740	<i>Rhizocephala spp.</i>
4	320	89434	<i>Thoracica spp.</i>
5	292	89600	<i>Balanus spp.</i>
6	161	89606	<i>Balanus crenatus</i>
7	150	89586	<i>Verruca spp.</i>
8	103	89560	<i>Lepas spp.</i>
9	79	89589	<i>Balanomorpha spp.</i>
10	67	89601	<i>Balanus balanoides</i>
11	54	89602	<i>Balanus balanus</i>
12	7	-7049	<i>Pedunculata spp.</i>
13	5	89561	<i>Lepas anatifera</i>
14	2	89587	<i>Verruca stroemia</i>
15	2	-7052	<i>Sessilia spp.</i>
16	1	-7323	<i>Balanus cypriform</i>

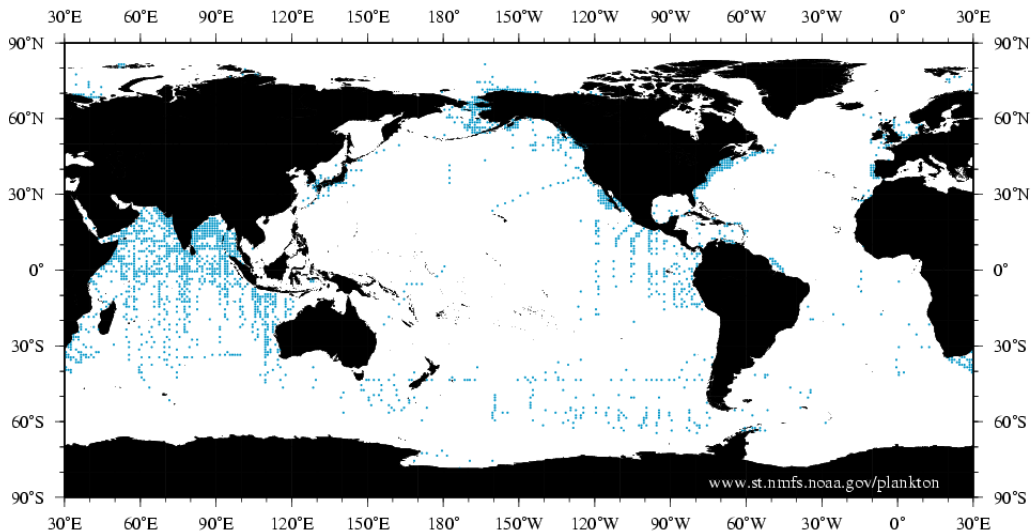
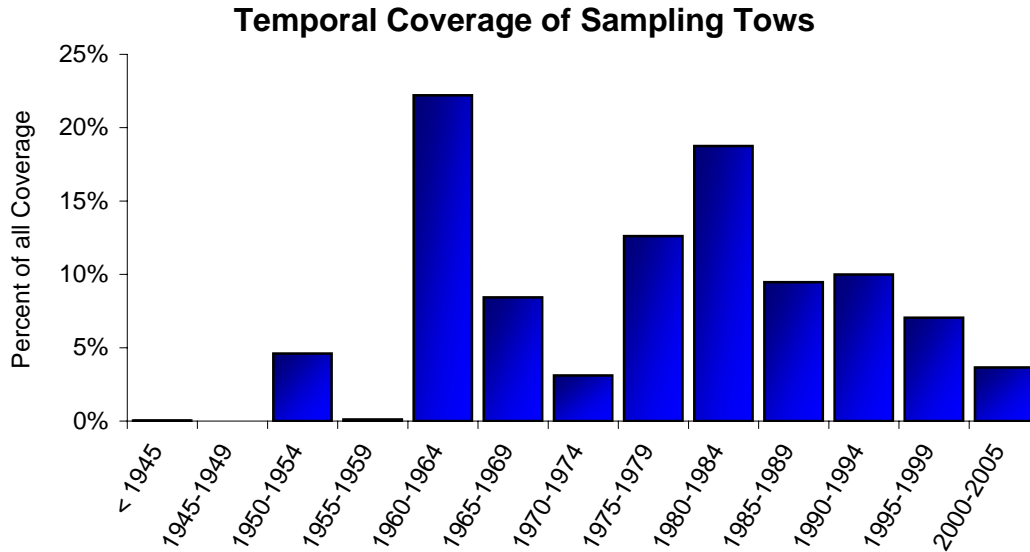


Figure B5.3: Distribution of Crustacea- Cirripedia observations.

Table B5.4: Content characteristics of all Mysidacea data

Number of Sampling Tows: 3,075
 Number of Observations: 3,686



Top Twenty most frequent Observations

Rank	# of OBS	ITIS-TSN	DESCRIPTION
1	5,123	89807	<i>Mysidacea spp.</i>
2	1,110	89856	<i>Mysidae spp.</i>
3	753	90062	<i>Neomysis americana</i>
4	463	90139	<i>Mysidopsis bigelowi</i>
5	84	89855	<i>Mysida spp.</i>
6	75	90061	<i>Neomysis rayii</i>
7	67	90029	<i>Meterythropros robusta</i>
8	57	-8668	<i>Pacificanthomysis nephrophthalma</i>
9	56	90041	<i>Mysis spp.</i>
10	41	90099	<i>Pseudomma truncatum</i>
11	37	90326	<i>Alienacanthomysis macropsis</i>
12	32	89962	<i>Caesaromysis hispida</i>
13	29	90044	<i>Mysis oculata</i>
14	29	90043	<i>Mysis littoralis</i>
15	26	89868	<i>Xenacanthomysis pseudomacropsis</i>
16	22	89871	<i>Acanthomysis stelleri</i>
17	22	89852	<i>Eucopia grimaldii</i>
18	21	89867	<i>Acanthomysis pseudomacropsis</i>
19	20	89861	<i>Acanthomysis dybowskii</i>
20	19	89849	<i>Eucopia spp.</i>

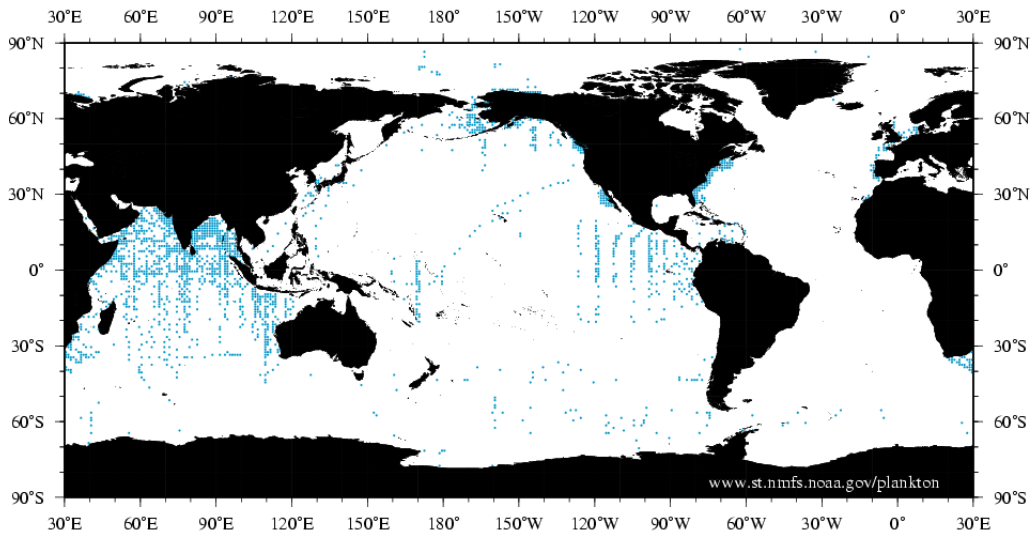
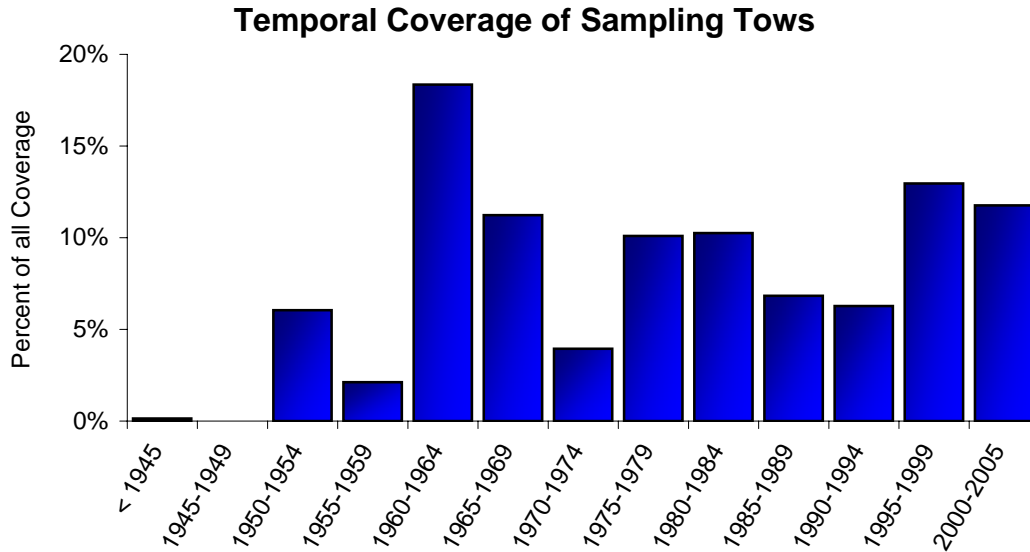


Figure B5.4: Distribution of Crustacea- Mysidacea observations.

Table B5.1: Content characteristics of all Ostracoda data

Number of Sampling Tows: 11,111
 Number of Observations: 19,119



Top Twenty most frequent Observations

Rank	# of OBS	ITIS-TSN	DESCRIPTION
1	14,071	84195	<i>Ostracoda spp.</i>
2	964	84325	<i>Conchoecia spp.</i>
3	877	-8692	<i>Halocypridiformes conchoecia</i>
4	823	-8608	<i>Discoconchoecia elegans</i>
5	583	-8602	<i>Conchoecia magna</i>
6	254	84196	<i>Myodocopina spp.</i>
7	144	-8587	<i>Alacia minor</i>
8	137	-8667	<i>Orthoconchoecia secernenda</i>
9	118	-8671	<i>Porroecia spinirostris</i>
10	107	84331	<i>Conchoecia borealis</i>
11	86	-8655	<i>Mikroconchoecia acuticosta</i>
12	75	-8588	<i>Alacia pseudoalata</i>
13	71	-8648	<i>Metaconchoecia inflata</i>
14	59	-8650	<i>Metaconchoecia skogsbergi</i>
15	46	84329	<i>Conchoecia elegans</i>
16	46	-8586	<i>Alacia spp.</i>
17	45	-8646	<i>Metaconchoecia discoveryi</i>
18	36	-8603	<i>Conchoecilla daphnoides</i>
19	33	-8647	<i>Metaconchoecia fowleri</i>
20	25	84324	<i>Conchoaeidae spp.</i>

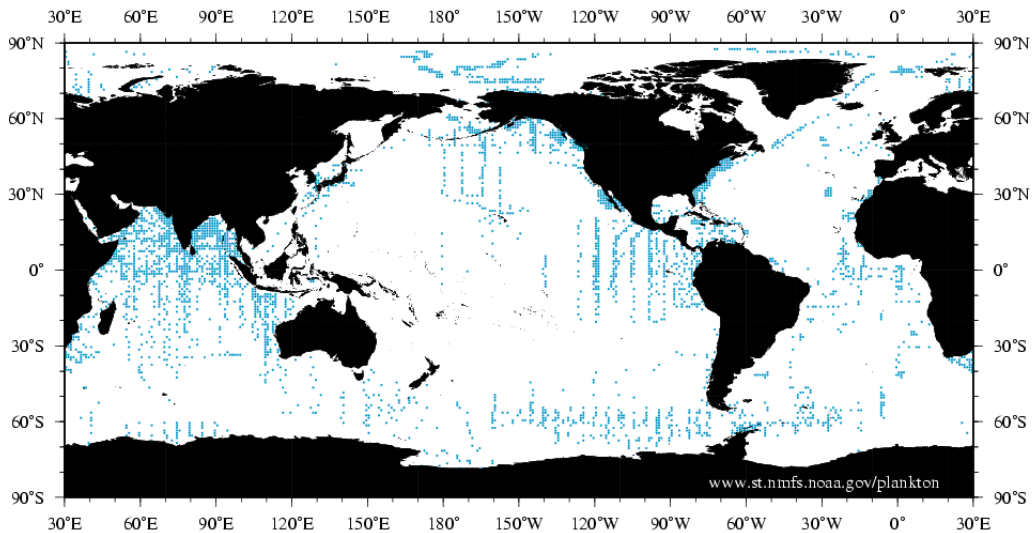
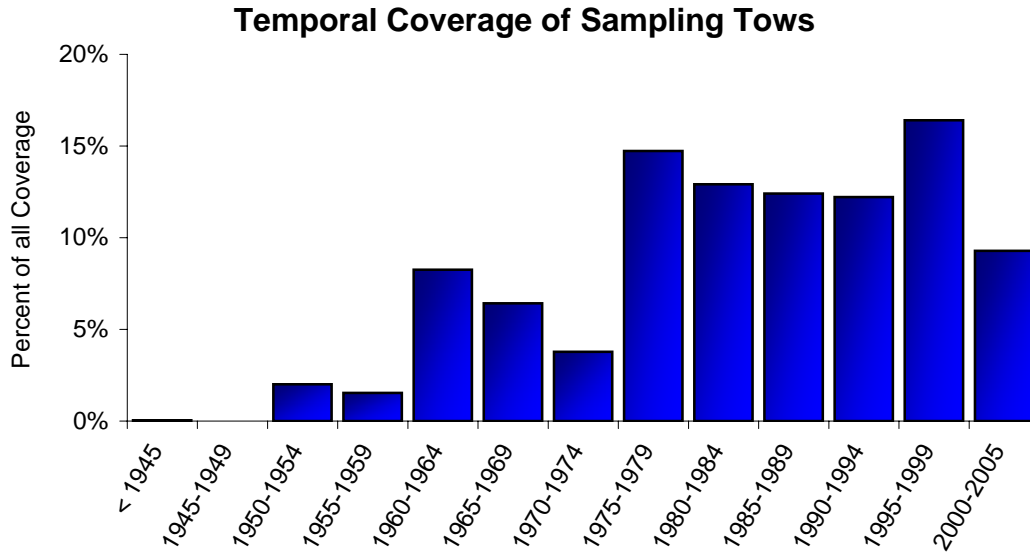


Figure B5.1: Distribution of Crustacea- Ostracoda observations.

Table B5.6: Content characteristics of all Amphipoda data

Number of Sampling Tows: 18,898
 Number of Observations: 34,995



Top Twenty most frequent Observations

Rank	# of OBS	ITIS-TSN	DESCRIPTION
1	15,091	95107	<i>Hyperiidea spp.</i>
2	14,169	93294	<i>Amphipoda spp.</i>
3	5,350	93295	<i>Gammaridea spp.</i>
4	2,248	95108	<i>Hyperiidae spp.</i>
5	2,080	-8685	<i>Themisto pacifica</i>
6	1,943	95152	<i>Parathemisto pacifica</i>
7	984	94281	<i>Cyphocaris challengerii</i>
8	754	-8672	<i>Primno abyssalis</i>
9	515	95148	<i>Parathemisto spp.</i>
10	413	95151	<i>Parathemisto libellula</i>
11	403	94280	<i>Cyphocaris spp.</i>
12	398	95172	<i>Phronimidae spp.</i>
13	381	95167	<i>Themisto spp.</i>
14	328	95187	<i>Primno spp.</i>
15	322	93745	<i>Gammaridae spp.</i>
16	271	95174	<i>Phronima sedentaria</i>
17	247	206603	<i>Vibilia propingua</i>
18	242	95109	<i>Hyperia spp.</i>
19	223	-7610	<i>Euprimno spp.</i>
20	200	95374	<i>Caprellidea spp.</i>

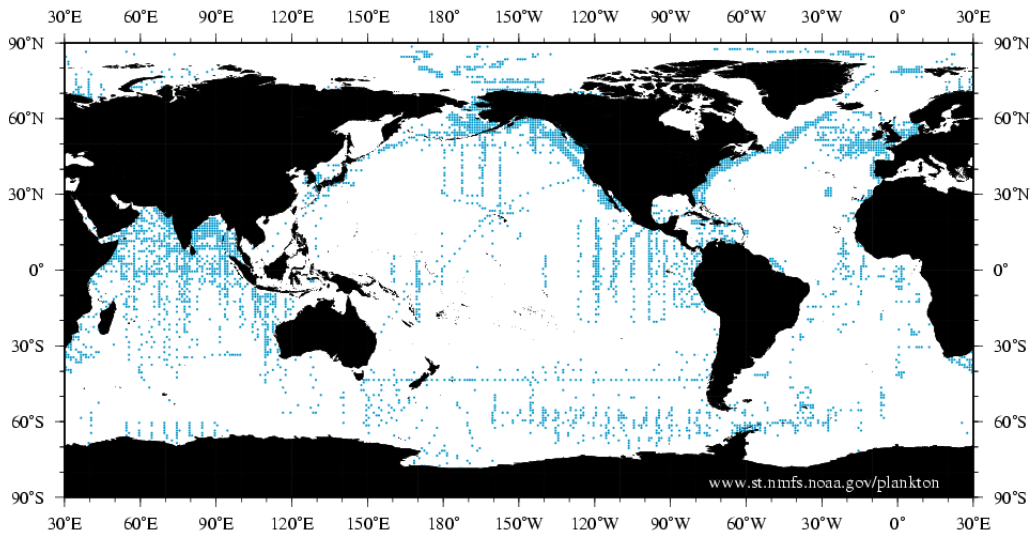
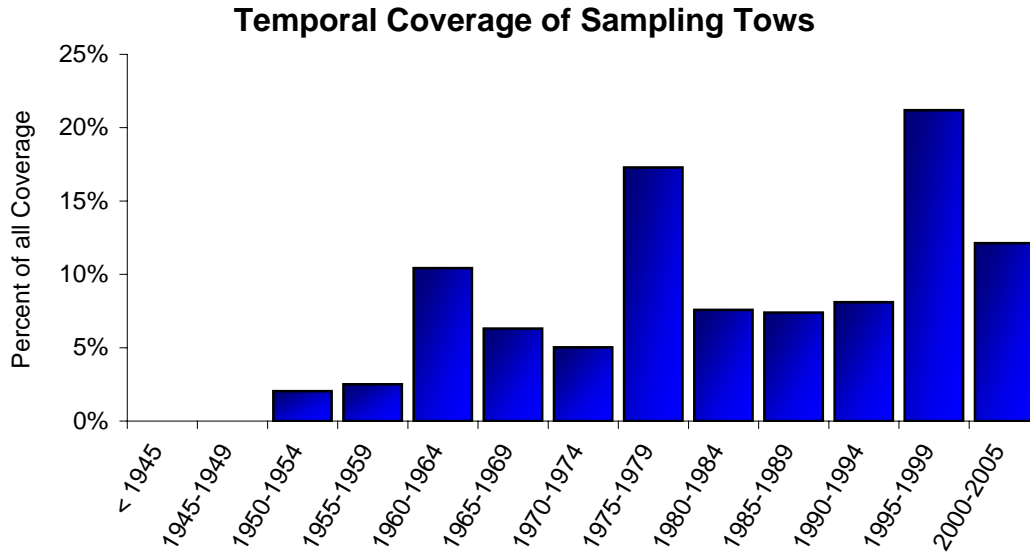


Figure B5.6: Distribution of Crustacea- Amphipoda observations.

Table B5.7: Content characteristics of all Euphausiacea data

Number of Sampling Tows: 23,314
 Number of Observations: 63,615



Top Twenty most frequent Observations

Rank	# of OBS	ITIS-TSN	DESCRIPTION
1	19,841	95496	<i>Euphausiacea spp.</i>
2	4,869	95500	<i>Euphausiidae spp.</i>
3	3,930	95502	<i>Euphausia pacifica</i>
4	2,753	95578	<i>Thysanoessa spinifera</i>
5	1,678	95574	<i>Thysanoessa inspinata</i>
6	1,637	95576	<i>Thysanoessa longipes</i>
7	1,290	95573	<i>Thysanoessa inermis</i>
8	958	95577	<i>Thysanoessa raschi</i>
9	901	95570	<i>Tessarabrachion oculatum</i>
10	428	95571	<i>Thysanoessa spp.</i>
11	329	95501	<i>Euphausia spp.</i>
12	253	95556	<i>Stylocheiron spp.</i>
13	238	95540	<i>Nematoscelis difficilis</i>
14	182	95536	<i>Nematobrachion flexipes</i>
15	175	95558	<i>Stylocheiron maximum</i>
16	170	95534	<i>Meganyctiphanes norvegica</i>
17	154	95575	<i>Thysanoessa longicaudata</i>
18	110	95572	<i>Thysanoessa gregaria</i>
19	74	95539	<i>Nematoscelis spp.</i>
20	60	95557	<i>Stylocheiron longicorne</i>

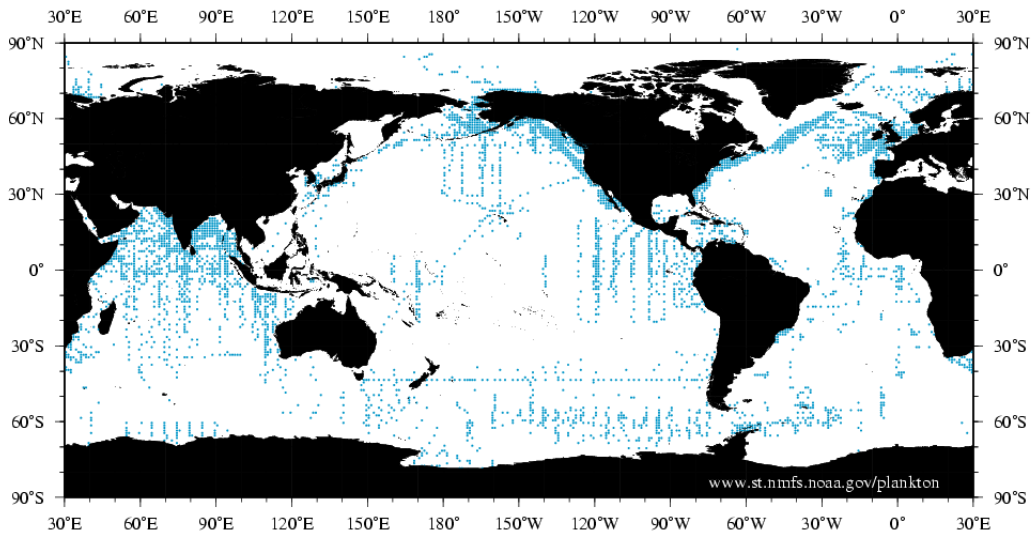
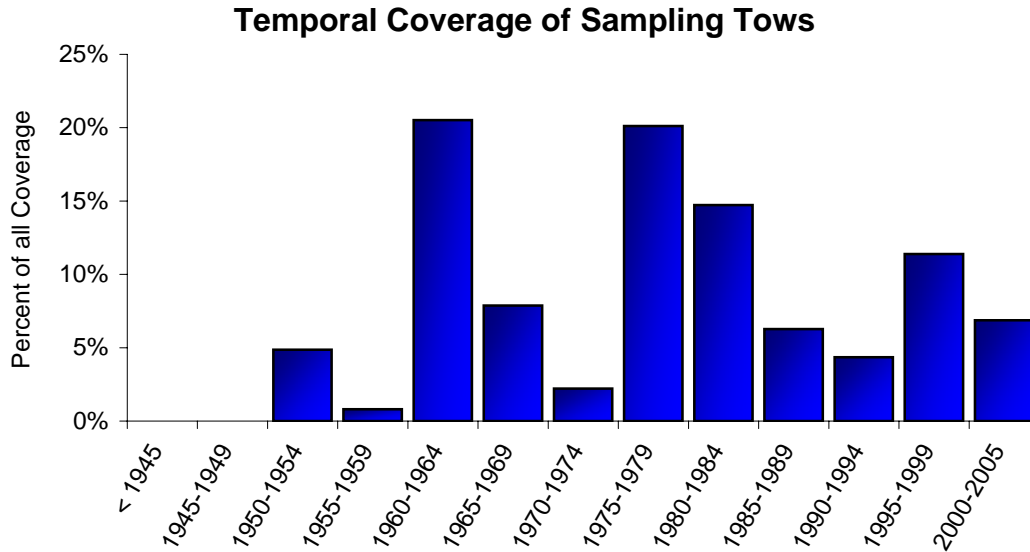


Figure B5.7: Distribution of Crustacea- Euphausiacea observations.

Table B5.8: Content characteristics of all Decapoda data

Number of Sampling Tows: 15,597
 Number of Observations: 43,743



Top Twenty most frequent Observations

Rank	# of OBS	ITIS-TSN	DESCRIPTION
1	10,018	95599	<i>Decapoda spp.</i>
2	4,406	98276	<i>Brachyura (true crabs)</i>
3	2,564	96106	<i>Caridea spp.</i>
4	2,521	95887	<i>Sergestidae spp.</i>
5	2,494	97698	<i>Anomura (hermit crabs)</i>
6	2,483	97106	<i>Crangonidae spp.</i>
7	2,365	97646	<i>Palinuridae spp.</i>
8	2,042	97774	<i>Paguridae spp.</i>
9	1,725	-5007	<i>Shrimp spp.</i>
10	1,504	96746	<i>Hippolytidae spp.</i>
11	1,496	95915	<i>Lucifer spp.</i>
12	916	98417	<i>Majidae spp.</i>
13	820	-5008	<i>Crabs spp.</i>
14	652	98429	<i>Chionoecetes bairdi</i>
15	563	96967	<i>Pandalus borealis</i>
16	523	98427	<i>Chionoecetes spp.</i>
17	520	96965	<i>Pandalidae spp.</i>
18	498	98428	<i>Chionoecetes opilio</i>
19	373	98675	<i>Cancer magister</i>
20	331	98964	<i>Pinnotheridae spp.</i>

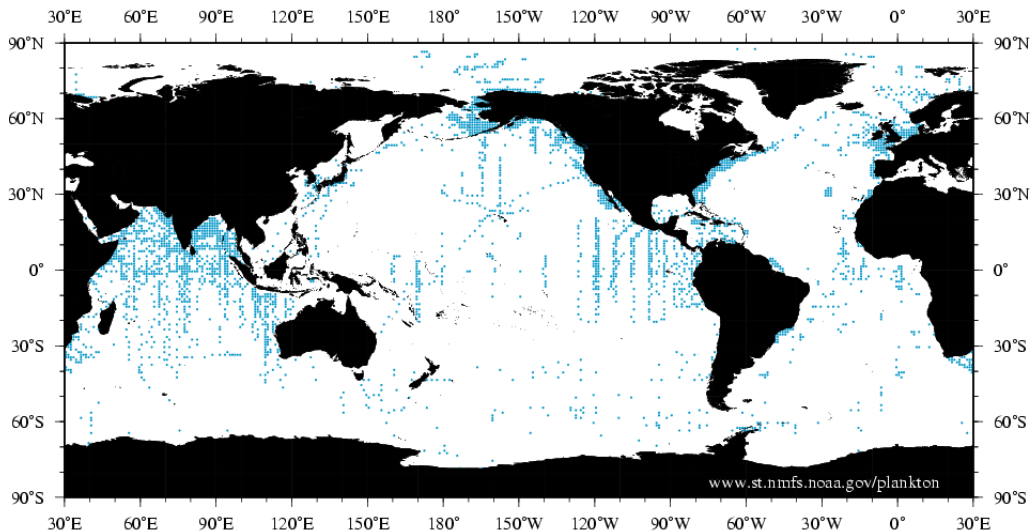
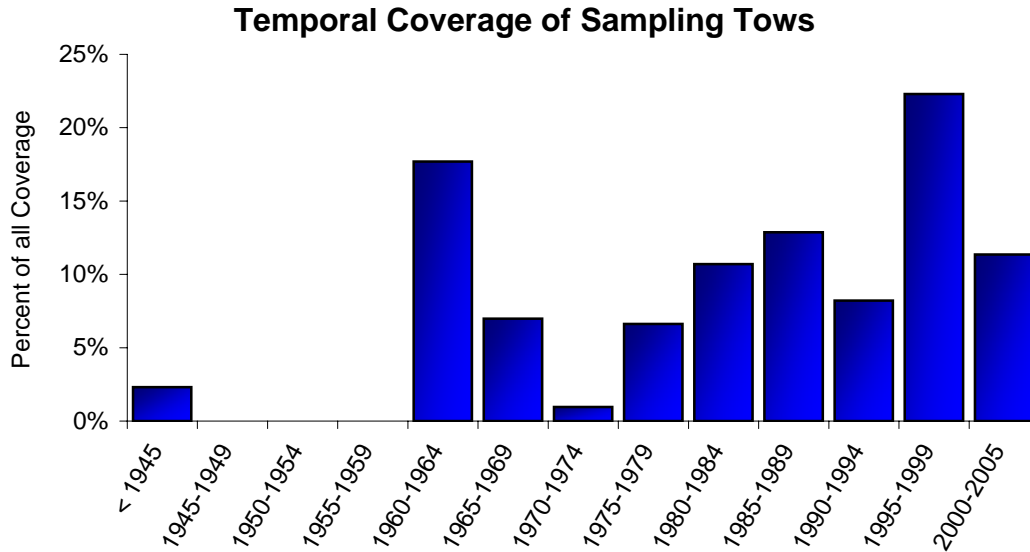


Figure B5.8: Distribution of Crustacea- Decapoda observations.

Table B6: Content characteristics of all Echinodermata data

Number of Sampling Tows: 4,102
 Number of Observations: 5,588



Top Twenty most frequent Observations

Rank	# of OBS	ITIS-TSN	DESCRIPTION
1	8,905	156857	<i>Echinodermata spp.</i>
2	842	157325	<i>Ophiuroidea spp.</i>
3	670	157821	<i>Echinoidea spp.</i>
4	474	156862	<i>Asteroidea spp.</i>
5	106	158140	<i>Holothuroidea spp.</i>
6	89	157385	<i>Ophiolepididae spp.</i>
7	2	157792	<i>Ophiothricidae spp.</i>
8	2	157411	<i>Ophiura spp.</i>
9	1	158128	<i>Echinocardium spp.</i>
10	1	157424	<i>Ophiura sarsi</i>
11	1	157384	<i>Ophiuridae spp.</i>
12	1	157215	<i>Asterias spp.</i>
13	1	157086	<i>Korethrasteridae spp.</i>

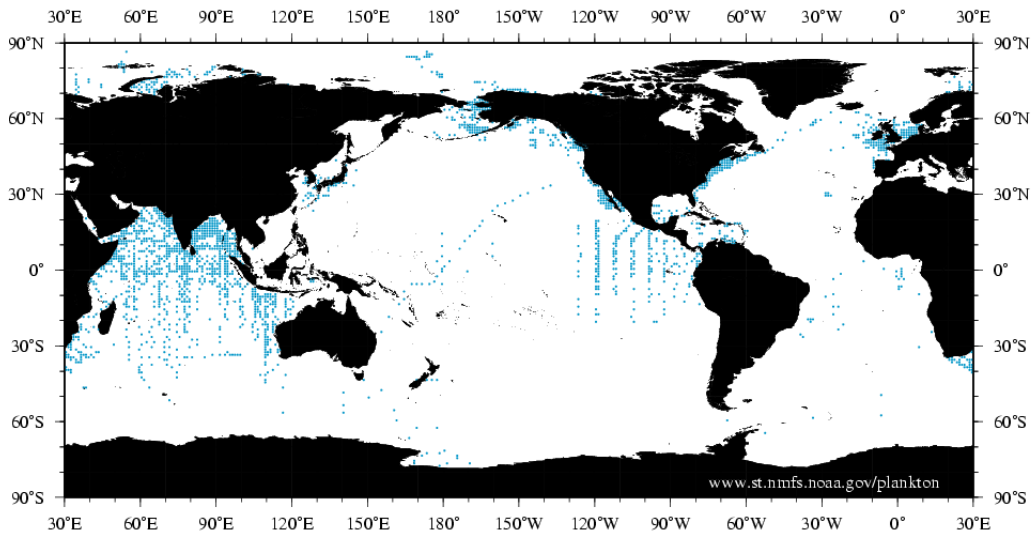
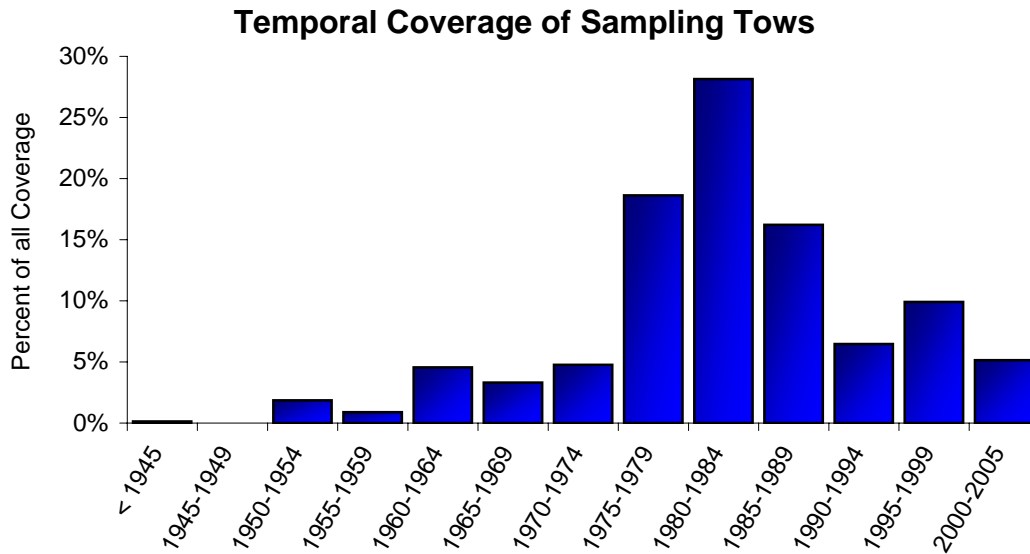


Figure B6: Distribution of Echinodermata observations.

Table B7: Content characteristics of all Chaetognatha data

Number of Sampling Tows: 27,871
 Number of Observations: 83,857



Top Twenty most frequent Observations

Rank	# of OBS	ITIS-TSN	DESCRIPTION
1	28,734	158650	<i>Chaetognatha spp.</i>
2	14,092	158727	<i>Sagitta spp.</i>
3	10,126	158784	<i>Parasagitta elegans</i>
4	4,896	158691	<i>Eukrohnia hamata</i>
5	3,191	158773	<i>Flaccisagitta enflata</i>
6	2,641	158776	<i>Mesosagattia minima</i>
7	2,491	158835	<i>Zonosagitta nagae</i>
8	2,379	158749	<i>Aidanosagitta regularis</i>
9	2,333	158813	<i>Serratosagitta pacifica</i>
10	2,288	158806	<i>Pseudosagitta scrippsae</i>
11	2,116	158815	<i>Serratosagitta pseudoserratodentata</i>
12	2,091	158841	<i>Pterosagitta draco</i>
13	1,918	158770	<i>Flaccisagitta hexaptera</i>
14	1,884	158779	<i>Mesosagattia decipiens</i>
15	1,883	158850	<i>Krohnitta pacifica</i>
16	1,881	158733	<i>Aidanosagitta neglecta</i>
17	1,817	158761	<i>Ferosagitta ferox</i>
18	1,814	158800	<i>Pseudosagitta lyra</i>
19	1,814	158758	<i>Ferosagitta robusta</i>
20	1,768	158849	<i>Krohnitta subtilis</i>

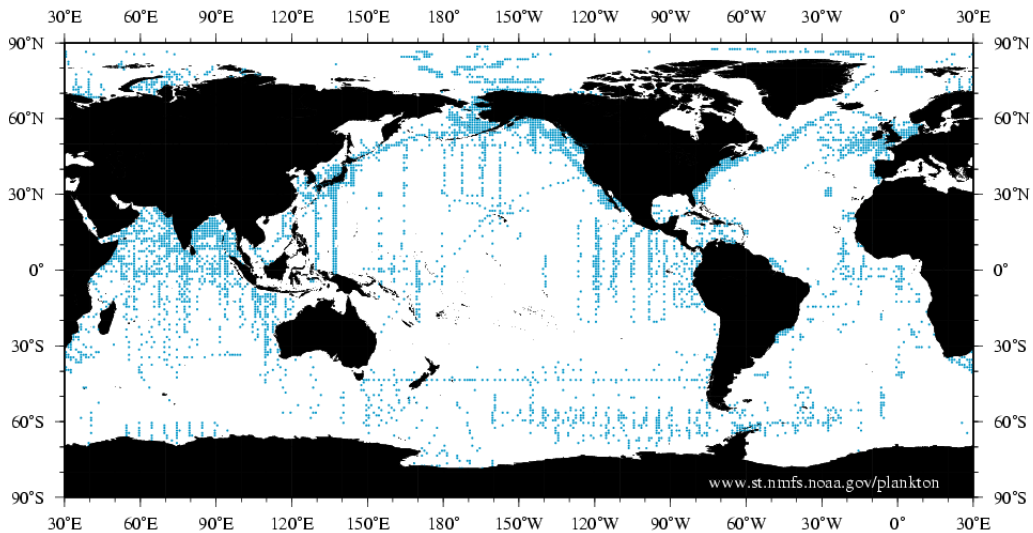
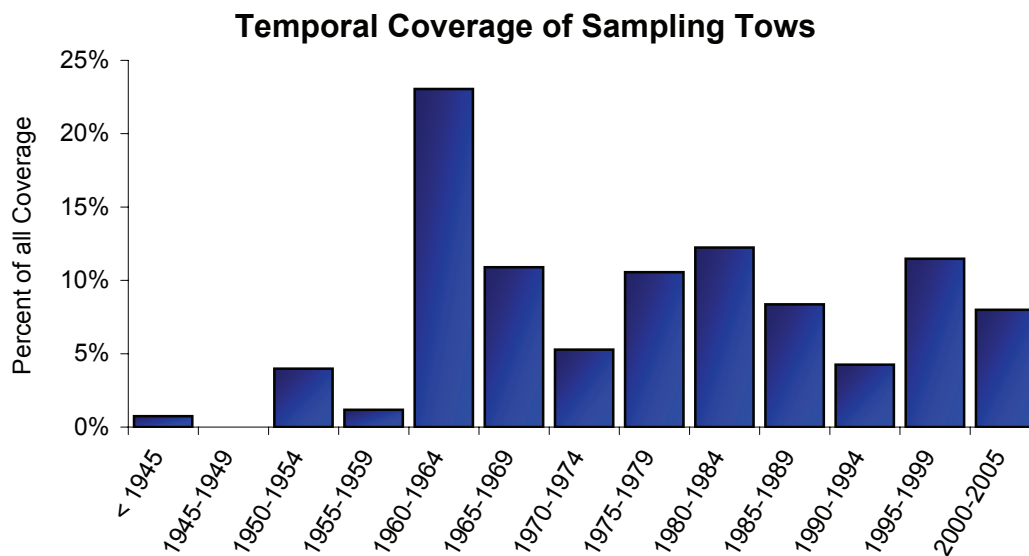


Figure B7: Distribution of Chaetognatha observations.

Table B8: Content characteristics of all Tunicate data

Number of Sampling Tows: 19,138

Number of Observations: 40,712



Top Twenty most frequent Observations

Rank	# of OBS	ITIS-TSN	DESCRIPTION
1	13,700	159664	<i>Appendicularia (aka "larvacea")</i>
2	5,251	159632	<i>Thaliacea spp.</i>
3	4,927	159668	<i>Oikopleura spp.</i>
4	4,854	203347	<i>Tunicata spp.</i>
5	2,147	159634	<i>Pyrosomidae spp.</i>
6	2,066	159681	<i>Branchiostoma spp.</i>
7	1,999	-6000	<i>Salps + doliolids</i>
8	1,948	159666	<i>Copelata spp.</i>
9	1,714	159638	<i>Doliolidae spp.</i>
10	1,655	159645	<i>Salpidae spp.</i>
11	1,265	159674	<i>Fritillaria spp.</i>
12	913	159675	<i>Fritillaria borealis</i>
13	877	159643	<i>Salpida spp.</i>
14	851	159669	<i>Oikopleura dioica</i>
15	780	159670	<i>Oikopleura labradoriensis</i>
16	753	159637	<i>Doliolida spp.</i>
17	404	159679	<i>Cephalochordata (aka "leptocardia")</i>
18	352	159633	<i>Pyrosomida spp.</i>
19	339	159658	<i>Thalia(thaliacea) spp.</i>
20	298	159639	<i>Doliolum spp.</i>

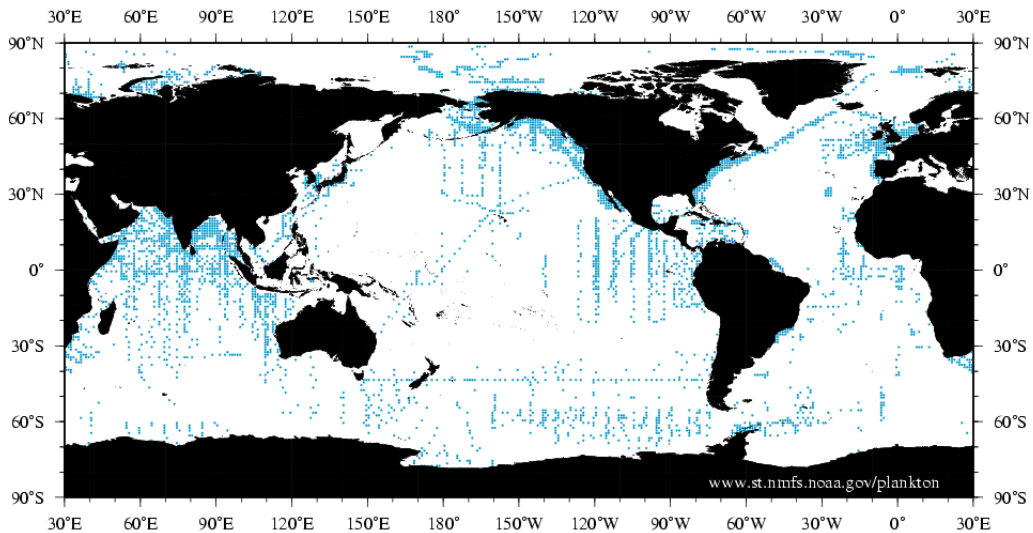
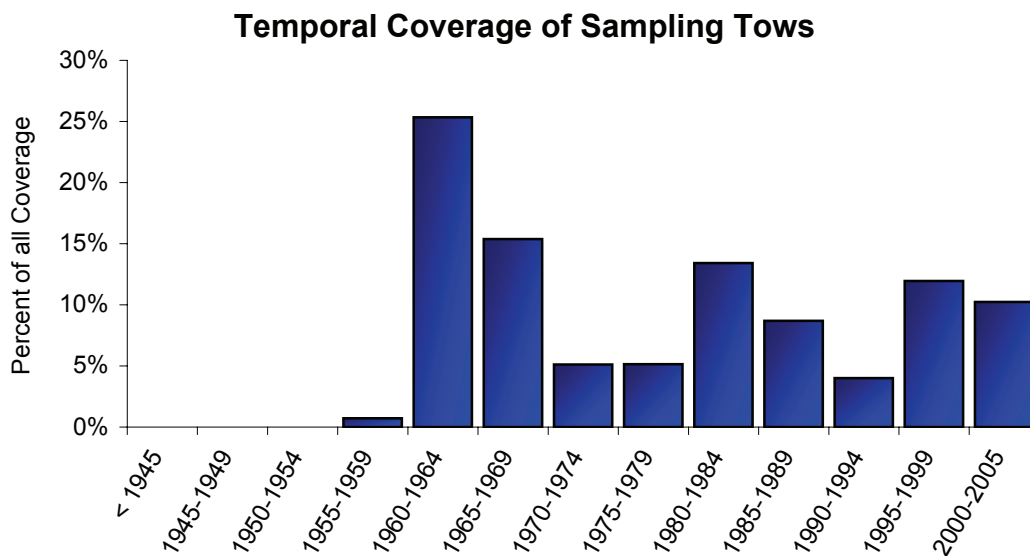


Figure B8: Distribution of Tunicata observations.

Table B8.1: Content characteristics of all Thaliacea data

Number of Sampling Tows: **5,794**
 Number of Observations: **11,308**



Top Twenty most frequent Observations

Rank	# of OBS	ITIS-TSN	DESCRIPTION
1	5,251	159632	<i>Thaliacea spp.</i>
2	2,147	159634	<i>Pyrosomidae spp.</i>
3	1,999	-6000	<i>Salps + doliolids</i>
4	1,714	159638	<i>Doliolidae spp.</i>
5	1,655	159645	<i>Salpidae spp.</i>
6	877	159643	<i>Salpida spp.</i>
7	753	159637	<i>Doliolida spp.</i>
8	352	159633	<i>Pyrosomida spp.</i>
9	339	159658	<i>Thalia(thaliacea) spp.</i>
10	298	159639	<i>Doliolum spp.</i>
11	269	159653	<i>Salpa fusiformis</i>
12	240	159635	<i>Pyrosoma spp.</i>
13	211	159648	<i>Cyclosalpa bakeri</i>
14	195	-8610	<i>Dolioletta gegenbauri</i>
15	176	159652	<i>Salpa spp.</i>
16	131	-8476	<i>Salpa aspera</i>
17	122	-8611	<i>Dolioletta gegenbauri (old nurse)</i>
18	104	-8612	<i>Doliolid (old nurse)</i>
19	60	159659	<i>Thalia democratica</i>
20	59	-7337	<i>Thalia democratica v.orientalis</i>

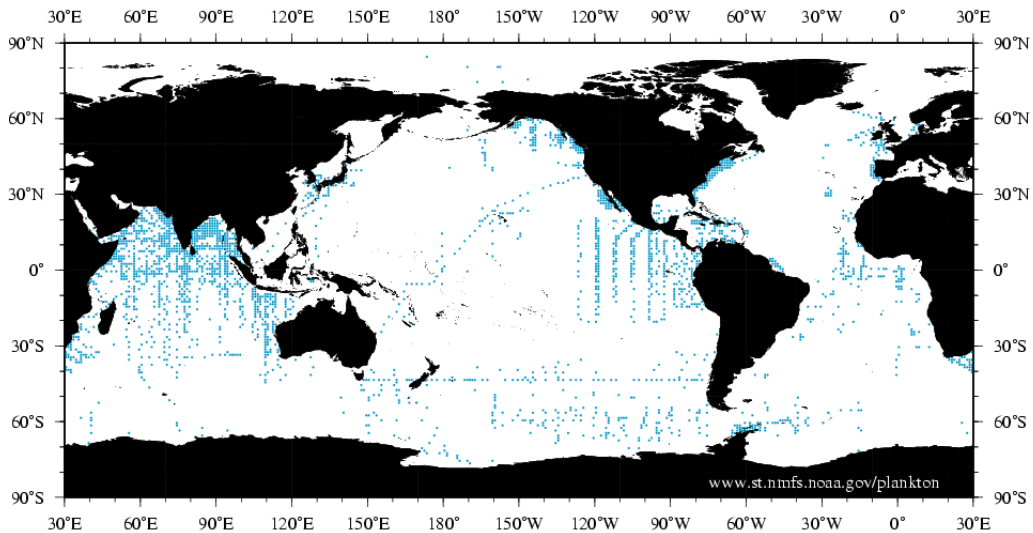
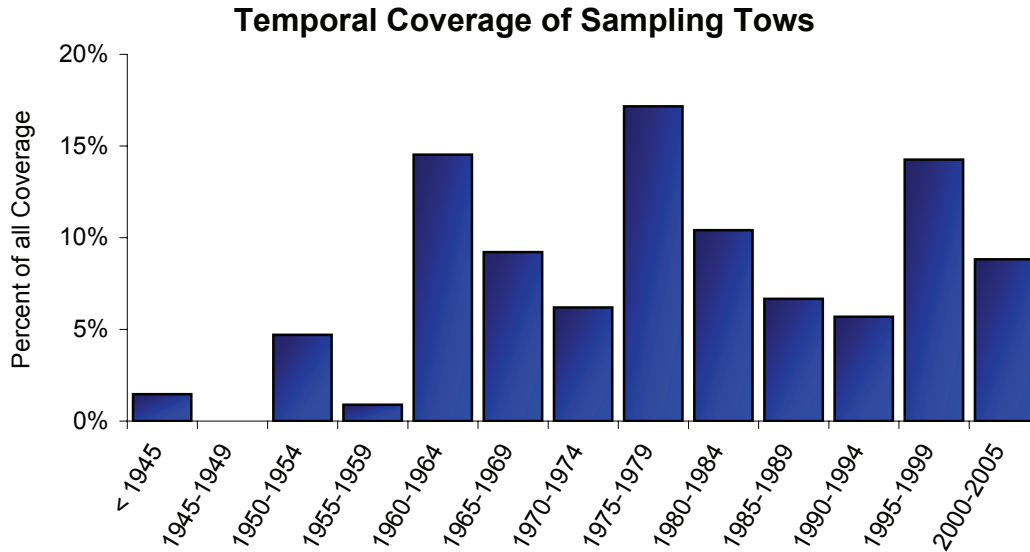


Figure B8.1: Distribution of Thaliacea- Salps & Doliolids observations.

Table B8.2: Content characteristics of all Larvacea data

Number of Sampling Tows: 15,144
 Number of Observations: 25,063



Top Twenty most frequent Observations

Rank	# of OBS	ITIS-TSN	DESCRIPTION
1	13,700	159664	<i>Appendicularia (aka "larvacea")</i>
2	4,927	159668	<i>Oikopleura spp.</i>
3	1,948	159666	<i>Copelata spp.</i>
4	1,265	159674	<i>Fritillaria spp.</i>
5	913	159675	<i>Fritillaria borealis</i>
6	851	159669	<i>Oikopleura dioica</i>
7	780	159670	<i>Oikopleura labradoriensis</i>
8	141	159671	<i>Oikopleura vanhoeffeni</i>
9	121	-7331	<i>Fritillaria pellucida</i>
10	103	-8663	<i>Oikopleura longicauda</i>
11	83	159673	<i>Fritillaridae spp.</i>
12	31	159667	<i>Oikopleuridae spp.</i>
13	5	-7332	<i>Oikopleura cophocerca</i>
14	2	-7859	<i>Fritillaria polaris</i>
15	1	159676	<i>Fritillaria haplostoma</i>

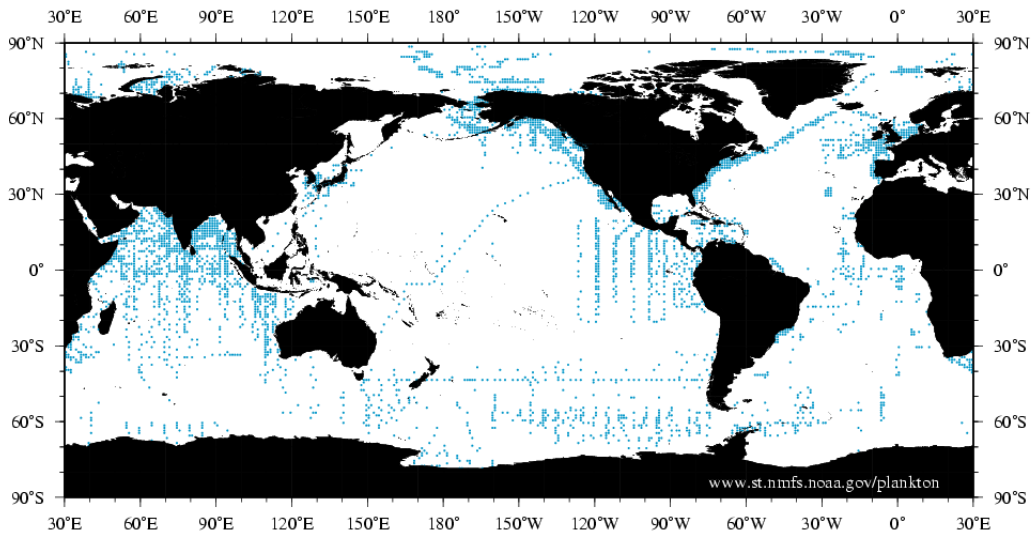


Figure B8.2: Distribution of Larvacea observations.