

APPENDICES A - E

In each data distribution figure of Appendices A - E, a small dot indicates a one-degree latitude-longitude square containing data from 1 - 4 plankton tows, and a large dot indicates a one-degree latitude-longitude square containing five or more plankton tows.

Table A1: Taxonomic composition of all Bacterioplankton

Number of Tows: 2,012
 Number of Observations: 25,776
 Number of Taxonomic Descriptions: 26

Top 30 Taxonomic Descriptions

Rank	#_OBS	ITIS-TSN	DESCRIPTION
1	14,162	202420	<i>Monera</i> ("bacteria")
2	5,018	773	<i>Synechococcus</i>
3	3,688	610076	<i>Prochlorococcus</i>
4	2,358	601	<i>Cyanophycota</i>
5	202	938	<i>Oscillatoria thiebautii</i>
6	170	917	<i>Oscillatoria</i>
7	119	934	<i>Oscillatoria erythraea</i>
8	10	1247	<i>Calothrix crustacea</i>
9	10	942	<i>Oscillatoria contorta</i>
10	7	862	<i>Oscillatoriaceae</i>
11	6	678	<i>Coccochloris</i>
12	6	613	<i>Anacystis montana</i>
13	5	1192	<i>Aphanizomenon flosaquae</i>
14	2	1034	<i>Schizothrix calcicola</i>
15	2	607	<i>Agmenellum thermale</i>
16	1	1146	<i>Nostoc</i>
17	1	1100	<i>Anabaena</i>
18	1	1055	<i>Spirulina subsalsa</i>
19	1	747	<i>Microcystis</i>
20	1	727	<i>Merismopedia</i>
21	1	620	<i>Anacystis incerta</i>
22	1	-7026	<i>Moraxella</i>
23	1	410	<i>Chromobacterium</i>
24	1	222	<i>Alcaligenes</i>
25	1	174	<i>Flavobacterium</i>
26	1	74	<i>Pseudomonas</i>

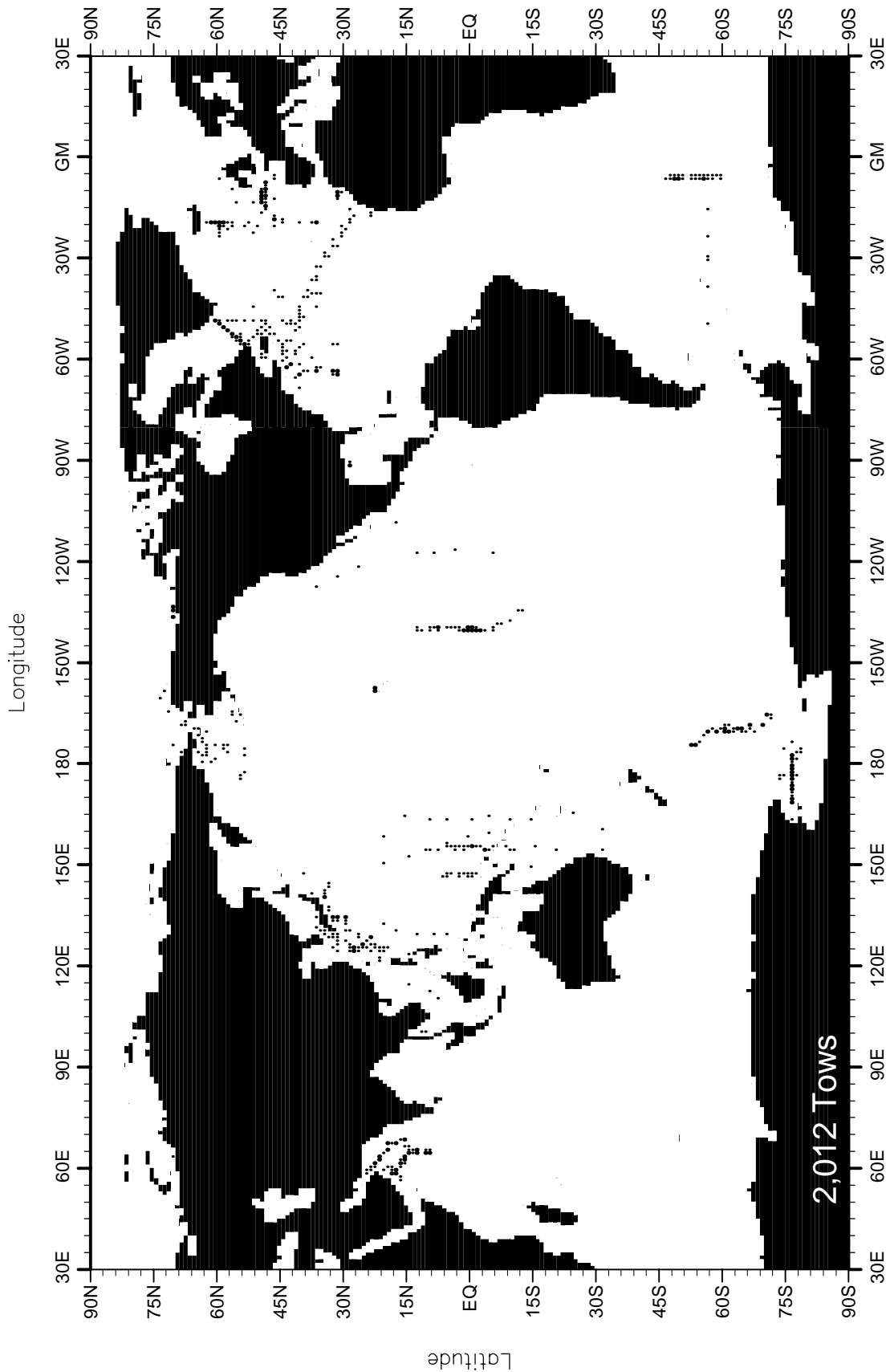


Fig. A1. Annual distribution of all bacterioplankton observations.

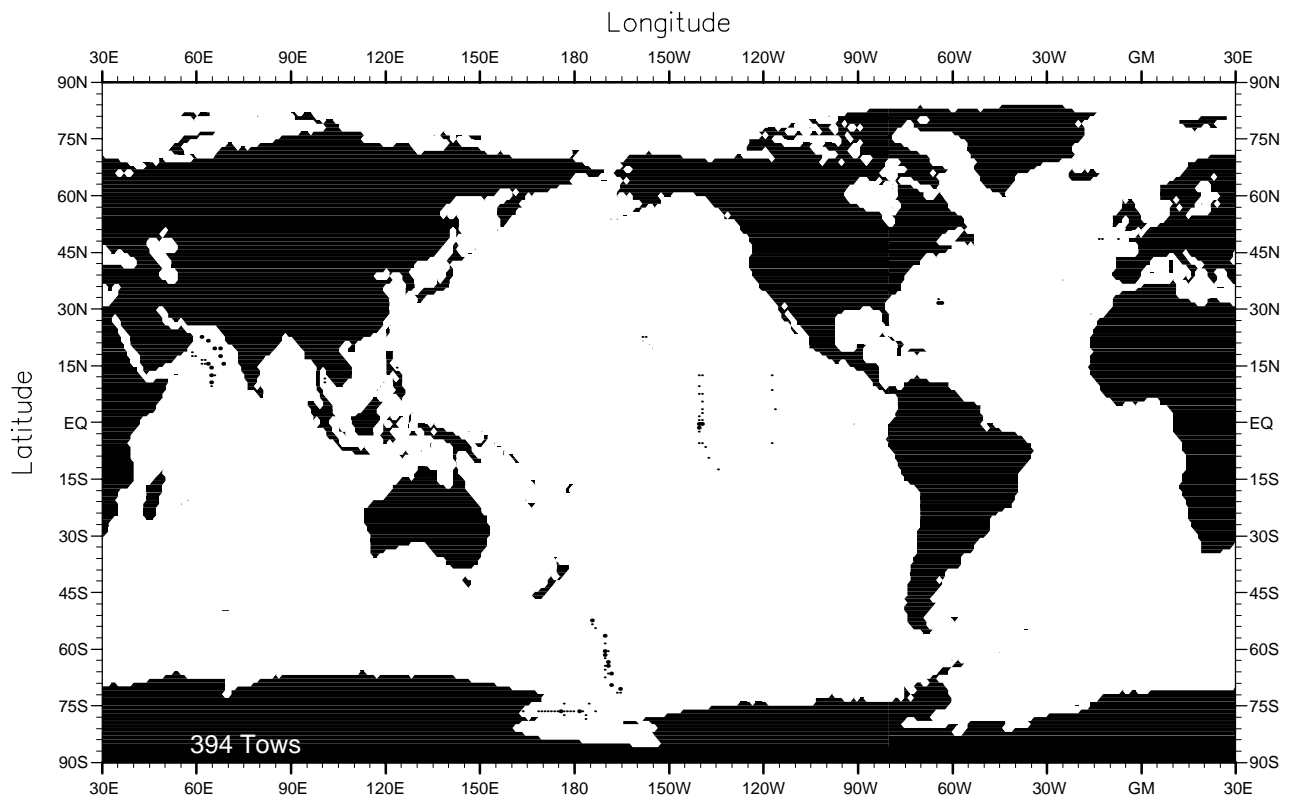


Fig. A1.1 Winter (Jan.-Mar.) distribution of all bacterioplankton observations.

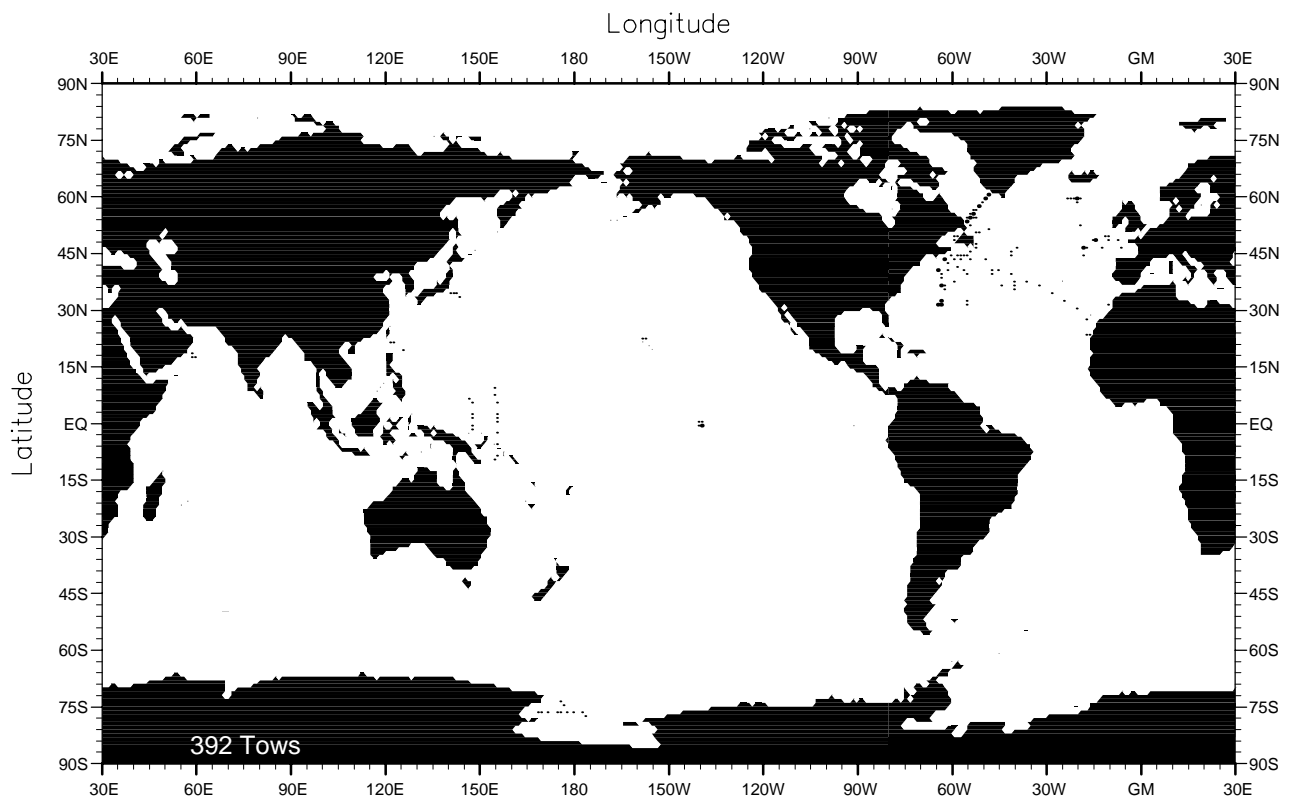


Fig. A1.2 Spring (Apr.-Jun.) distribution of all bacterioplankton observations.

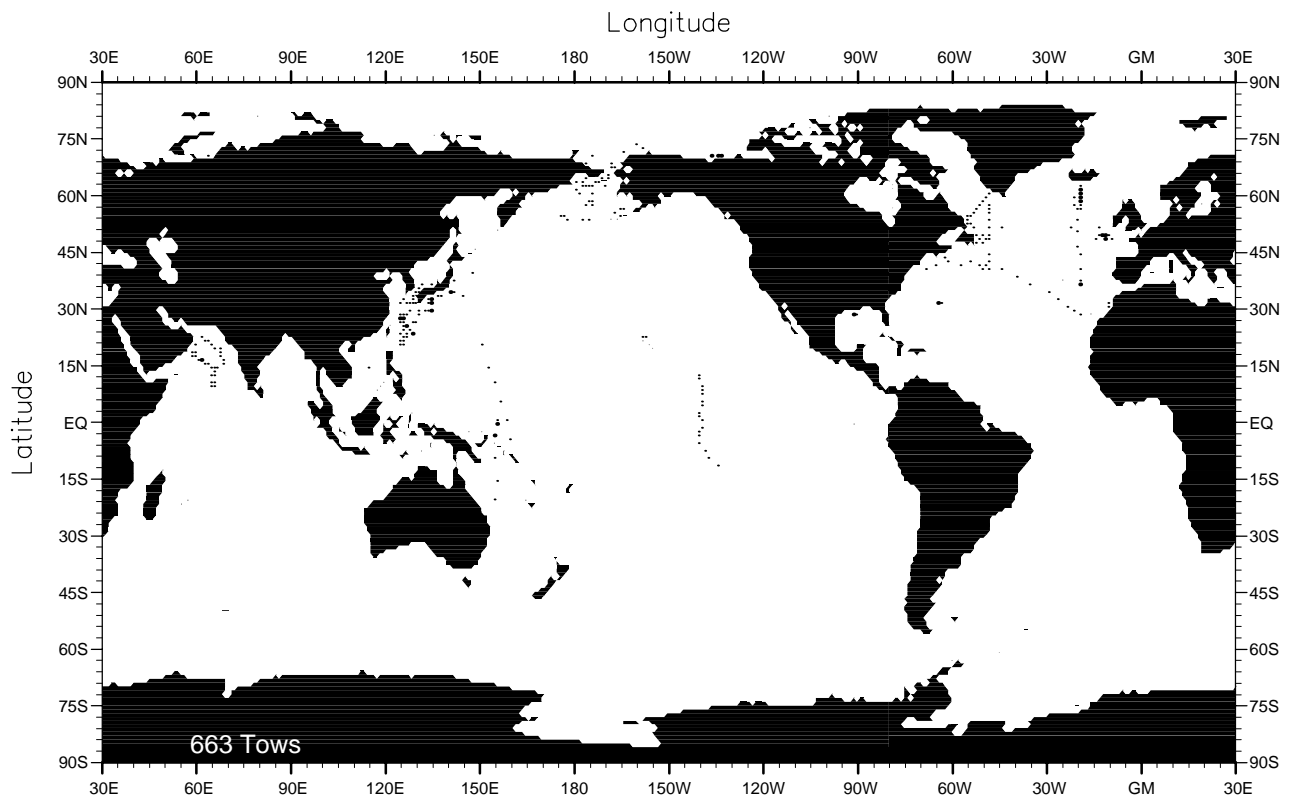


Fig. A1.3 Summer (Jul.-Sep.) distribution of all bacterioplankton observations.

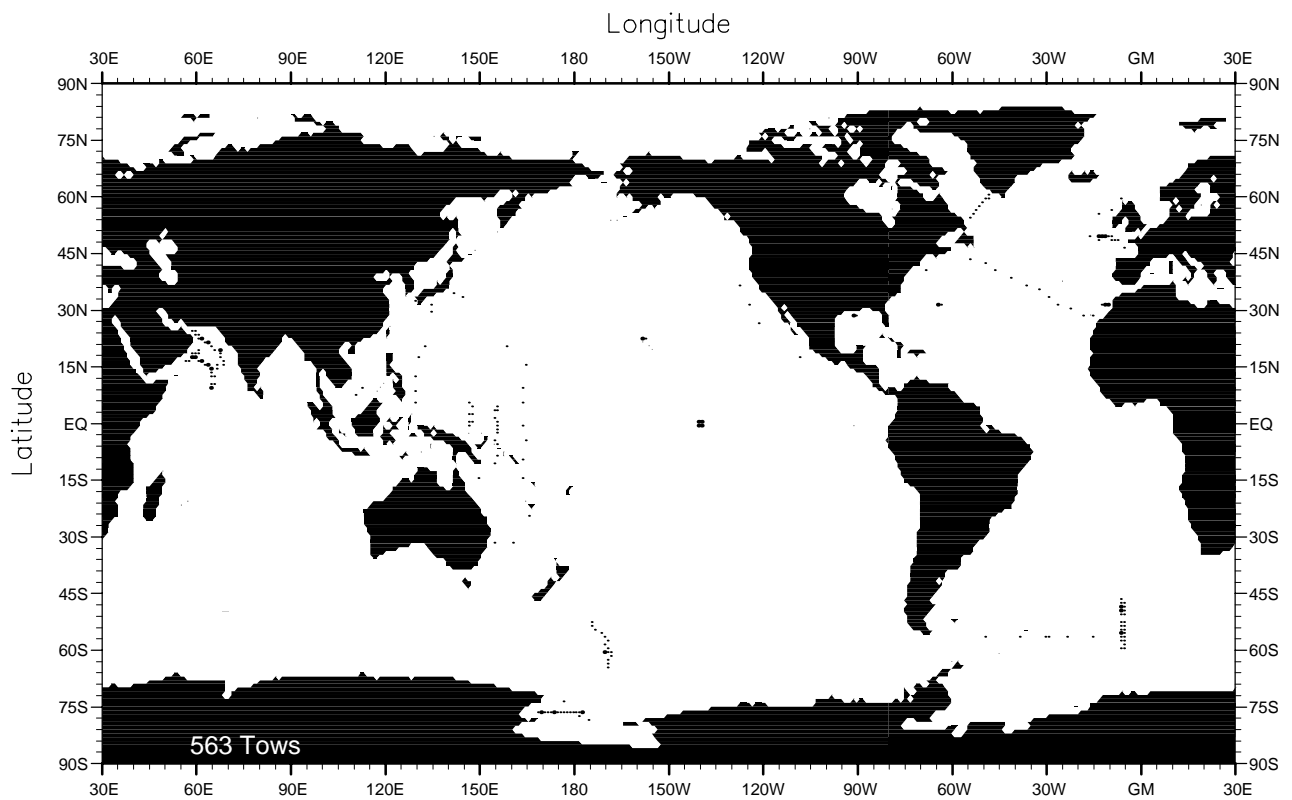


Fig. A1.4 Fall (Oct.-Dec.) distribution of all bacterioplankton observations.

Table A2: Taxonomic composition of all Cyanobacteria

Number of Tows: 1,000
 Number of Observations: 11,609
 Number of Taxonomic Descriptions: 22

Top 30 Taxonomic Descriptions

Rank	#_OBS	ITIS-TSN	DESCRIPTION
1	5,018	773	<i>Synechococcus</i>
2	3,688	610076	<i>Prochlorococcus</i>
3	2,358	601	Cyanophycota ("cyanobacteria")
4	202	938	<i>Oscillatoria thiebautii</i>
5	170	917	<i>Oscillatoria</i>
6	119	934	<i>Oscillatoria erythraea</i>
7	10	1247	<i>Calothrix crustacea</i>
8	10	942	<i>Oscillatoria contorta</i>
9	7	862	Oscillatoriaceae
11	6	678	<i>Coccochloris</i>
12	6	613	<i>Anacystis montana</i>
13	5	1192	<i>Aphanizomenon flosaquae</i>
14	2	1034	<i>Schizothrix calcicola</i>
15	2	607	<i>Agmenellum thermale</i>
17	1	1146	<i>Nostoc</i>
18	1	1100	<i>Anabaena</i>
19	1	1055	<i>Spirulina subsalsa</i>
20	1	747	<i>Microcystis</i>
21	1	727	<i>Merismopedia</i>
22	1	620	<i>Anacystis incerta</i>

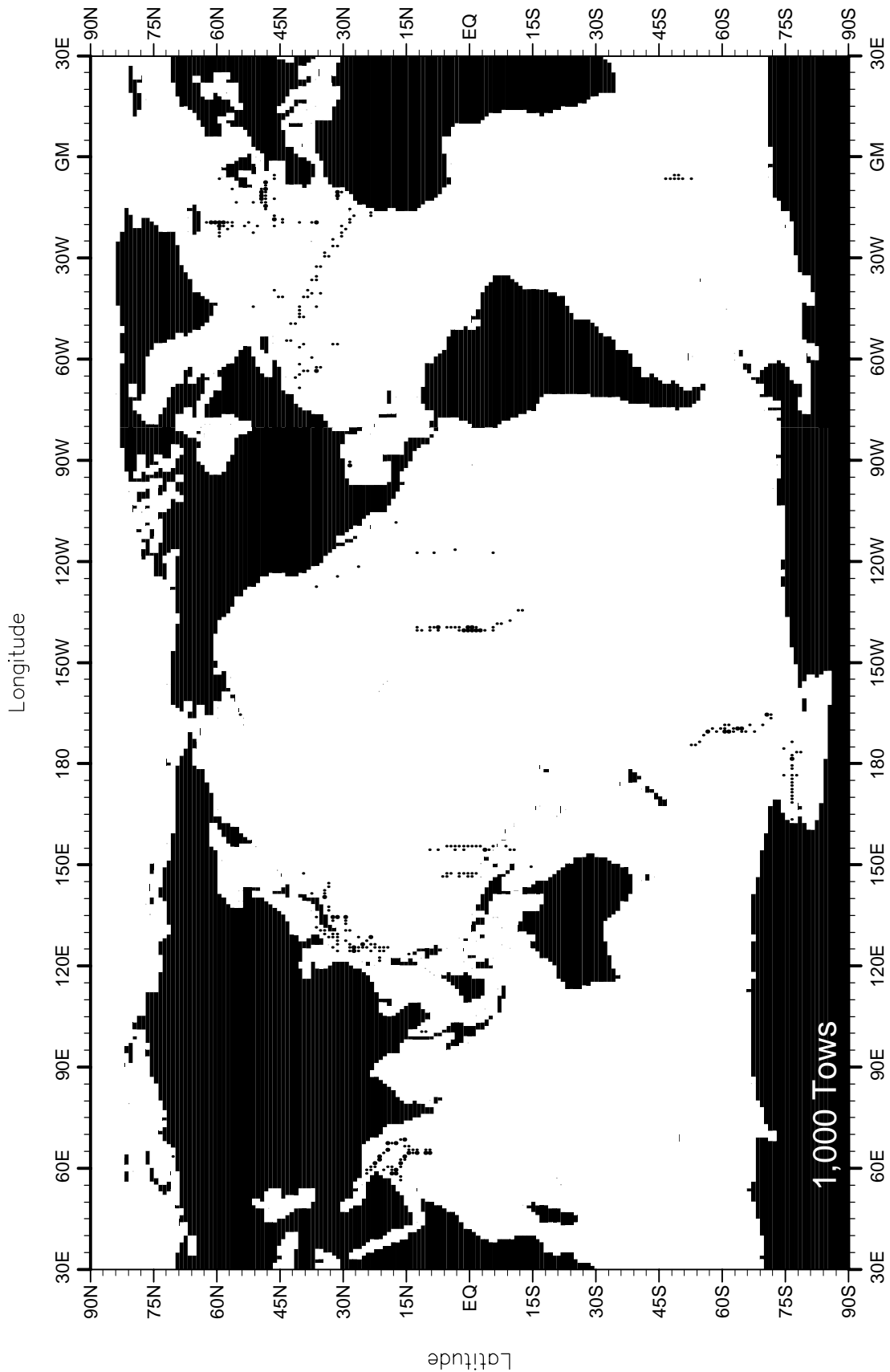


Fig. A2. Annual distribution of all cyanobacteria observations.

Table B1: Taxonomic composition of all Phytoplankton

Number of Tows: **24,989**
 Number of Observations: 415,235
 Number of Taxonomic Descriptions: **1,650**

Top 30 Taxonomic Descriptions

Rank	#_OBS	ITIS-TSN	DESCRIPTION
1	11,086	2758	<i>Chaetoceros</i>
2	8,976	2402	<i>Skeletonema costatum</i>
3	7,893	2484	<i>Thalassiosira</i>
4	7,748	3139	<i>Thalassionema nitzschioides</i>
5	5,463	5070	<i>Nitzschia</i>
6	5,348	2546	<i>Coscinodiscus</i>
7	5,272	10400	<i>Ceratium fusus</i>
8	5,209	2930	<i>Pennales</i>
9	5,182	5093	<i>Nitzschia seriata</i>
10	5,176	2395	<i>Leptocylindrus danicus</i>
11	5,170	-5001	"Nanoplankton (2.0 - 20. um)"
12	4,981	2286	<i>Bacillariophyceae</i>
13	4,560	5080	<i>Nitzschia longissima</i>
14	4,463	5077	<i>Nitzschia delicatissima</i>
15	4,452	2903	<i>Rhizosolenia stolterfothii</i>
16	4,426	9874	<i>Dinophyceae</i>
17	4,396	2791	<i>Chaetoceros decipiens</i>
18	4,365	2881	<i>Rhizosolenia alata</i>
19	4,301	5149	<i>Nitzschia closterium</i>
20	4,275	2780	<i>Chaetoceros compressus</i>
21	4,019	2787	<i>Chaetoceros curvisetus</i>
22	3,902	2759	<i>Chaetoceros affinis</i>
23	3,866	10031	<i>Gymnodinium</i>
24	3,849	-5006	"Phytoplankton"
25	3,623	2811	<i>Chaetoceros lorenzianus</i>
26	3,610	2904	<i>Rhizosolenia styliformis</i>
27	3,449	10399	<i>Ceratium furca</i>
28	3,438	2387	<i>Corethron criophilum</i>
29	3,380	2902	<i>Rhizosolenia setigera</i>
30	3,177	2733	<i>Eucampia zoodiacus</i>
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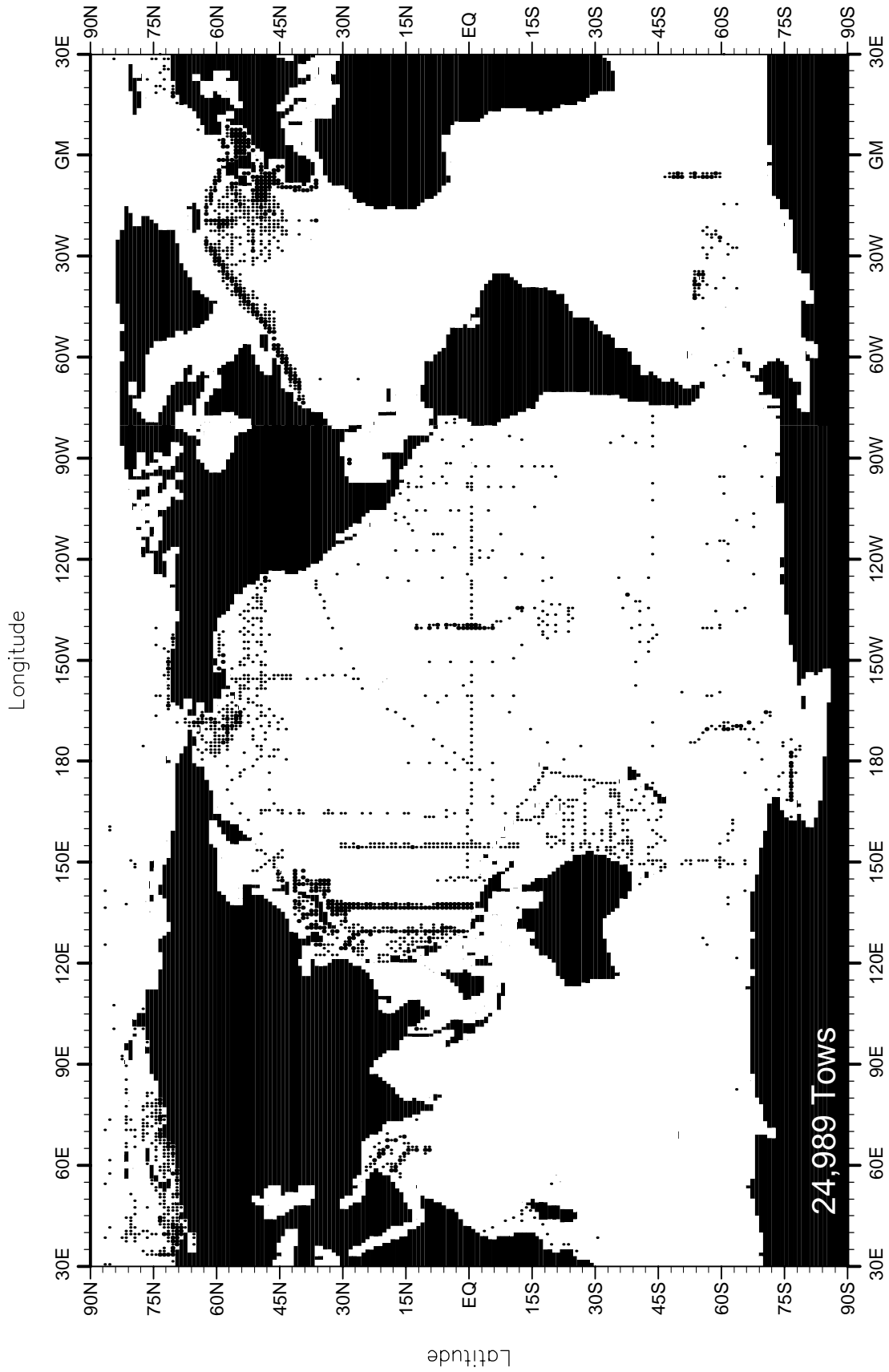


Fig. B1. Annual distribution of all phytoplankton observations.

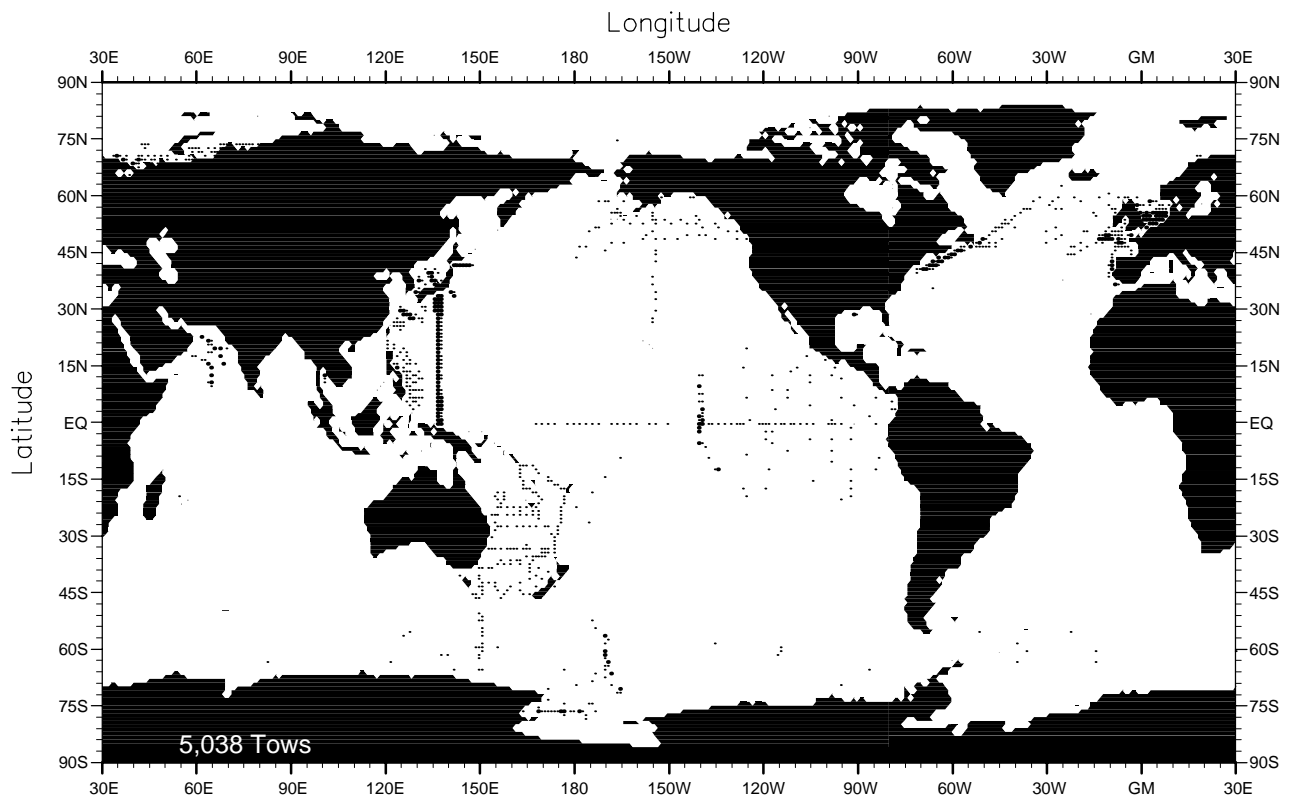


Fig. B1.1 Winter (Jan.-Mar.) distribution of all phytoplankton observations.

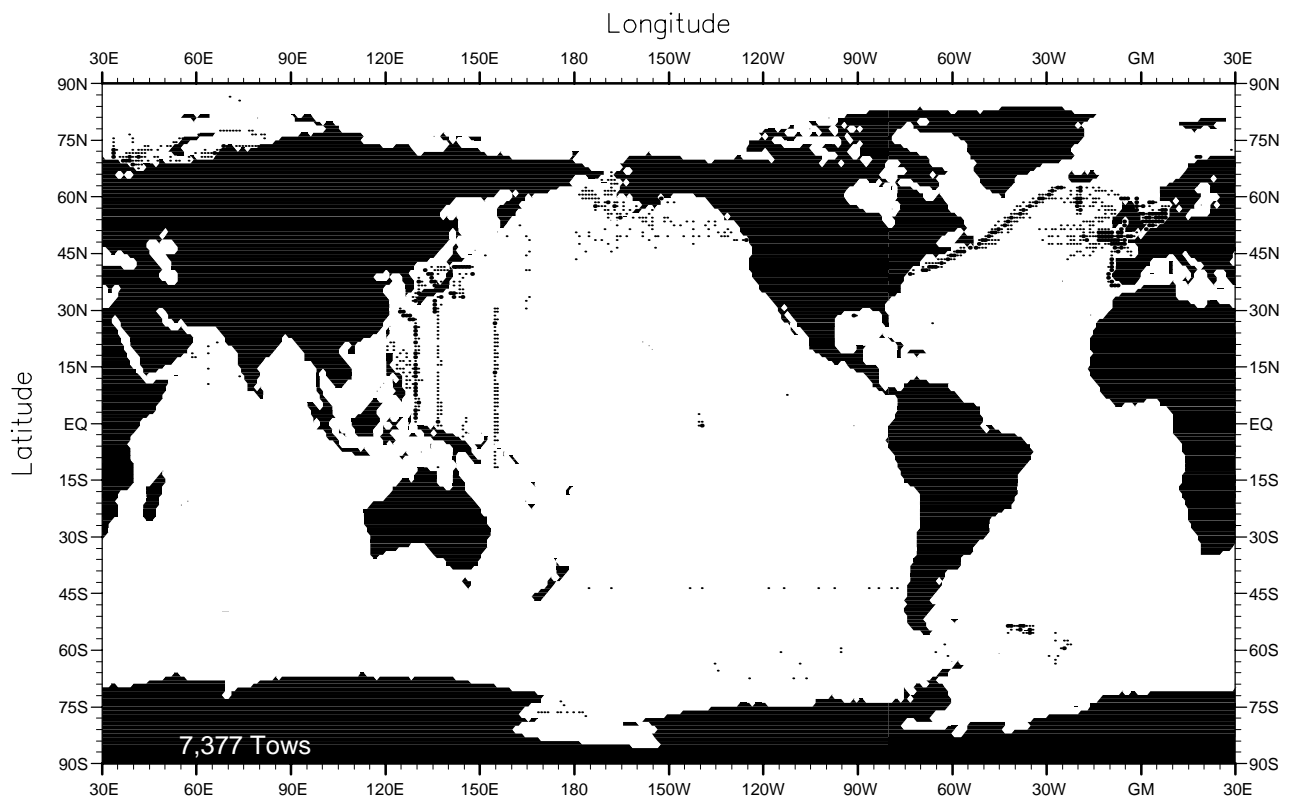


Fig. B1.2 Spring (Apr.-Jun.) distribution of all phytoplankton observations.

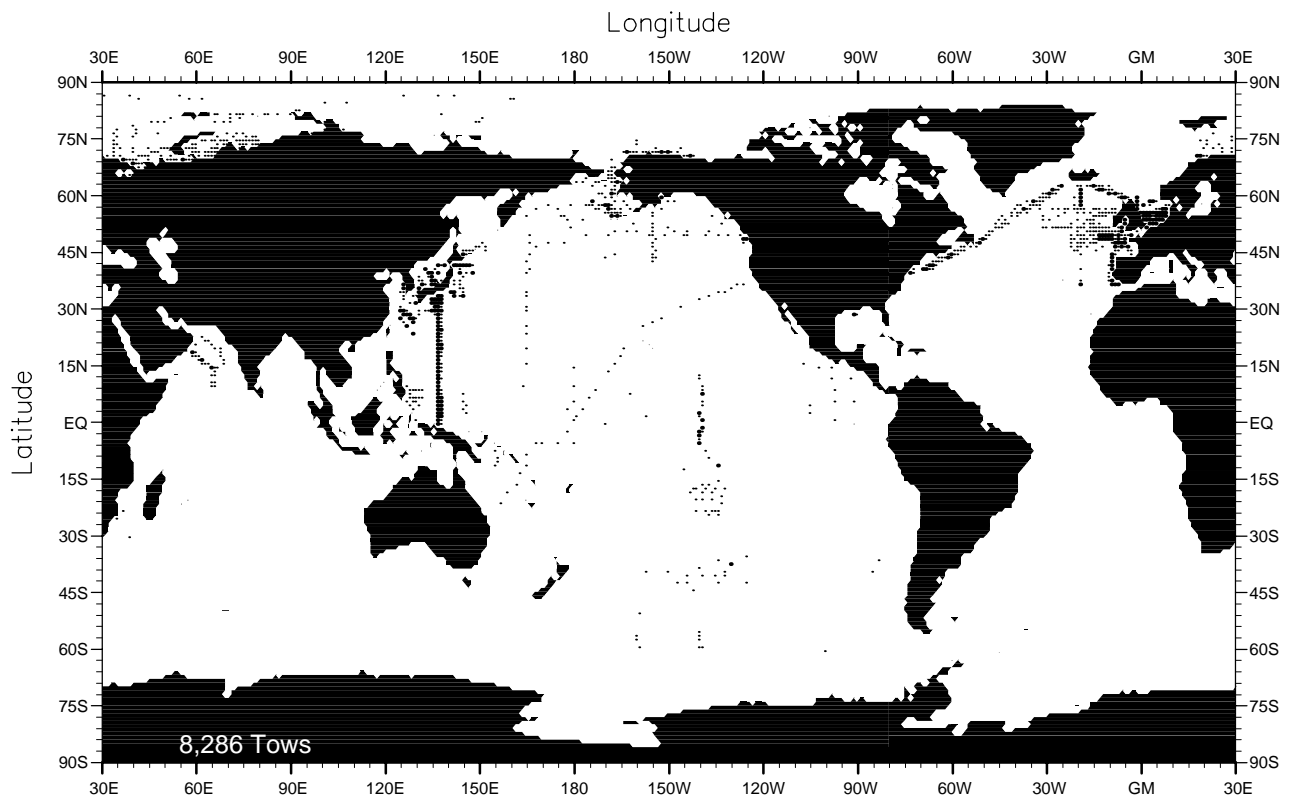


Fig. B1.3 Summer (Jul.-Sep.) distribution of all phytoplankton observations.

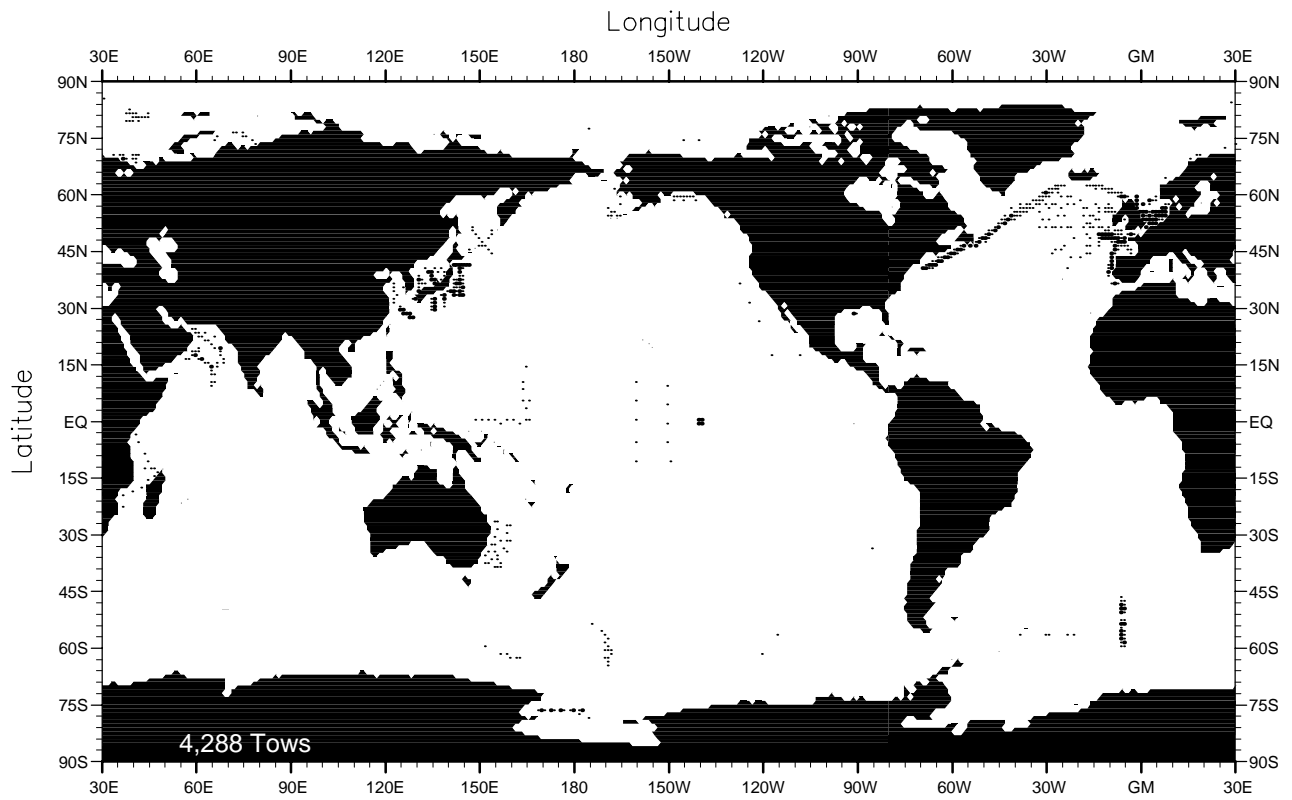


Fig. B1.4 Fall (Oct.-Dec.) distribution of all phytoplankton observations.

Table B2: Taxonomic composition of all Diatoms

Number of Tows: **20,363**
 Number of Observations: 303,897
 Number of Taxonomic Descriptions: **763**

Top 30 Taxonomic Descriptions

Rank	# OBS	ITIS-TSN	DESCRIPTION
1	11,086	2758	<i>Chaetoceros</i>
2	8,976	2402	<i>Skeletonema costatum</i>
3	7,893	2484	<i>Thalassiosira</i>
4	7,748	3139	<i>Thalassionema nitzschioides</i>
5	5,463	5070	<i>Nitzschia</i>
6	5,348	2546	<i>Coscinodiscus</i>
7	5,209	2930	<i>Pennales</i>
8	5,182	5093	<i>Nitzschia seriata</i>
9	5,176	2395	<i>Leptocylindrus danicus</i>
10	4,981	2287	<i>Bacillariophyceae</i>
11	4,560	5080	<i>Nitzschia longissima</i>
12	4,463	5077	<i>Nitzschia delicatissima</i>
13	4,452	2903	<i>Rhizosolenia stolterfothii</i>
14	4,396	2791	<i>Chaetoceros decipiens</i>
15	4,365	2881	<i>Rhizosolenia alata</i>
16	4,301	5149	<i>Nitzschia closterium</i>
17	4,275	2780	<i>Chaetoceros compressus</i>
18	4,019	2787	<i>Chaetoceros curvisetus</i>
19	3,902	2759	<i>Chaetoceros affinis</i>
20	3,623	2811	<i>Chaetoceros lorenzianus</i>
21	3,610	2904	<i>Rhizosolenia styliformis</i>
22	3,438	2387	<i>Corethron criophilum</i>
23	3,380	2902	<i>Rhizosolenia setigera</i>
24	3,177	2733	<i>Eucampia zoodiacus</i>
25	3,118	2931	<i>Diatomaceae</i>
26	3,114	2888	<i>Rhizosolenia calcar-avis</i>
27	3,057	3134	<i>Thalassiothrix longissima</i>
28	3,037	2749	<i>Hemiaulus hauckii</i>
29	2,838	3117	<i>Asterionella japonica</i>
30	2,732	3133	<i>Thalassiothrix frauenfeldii</i>
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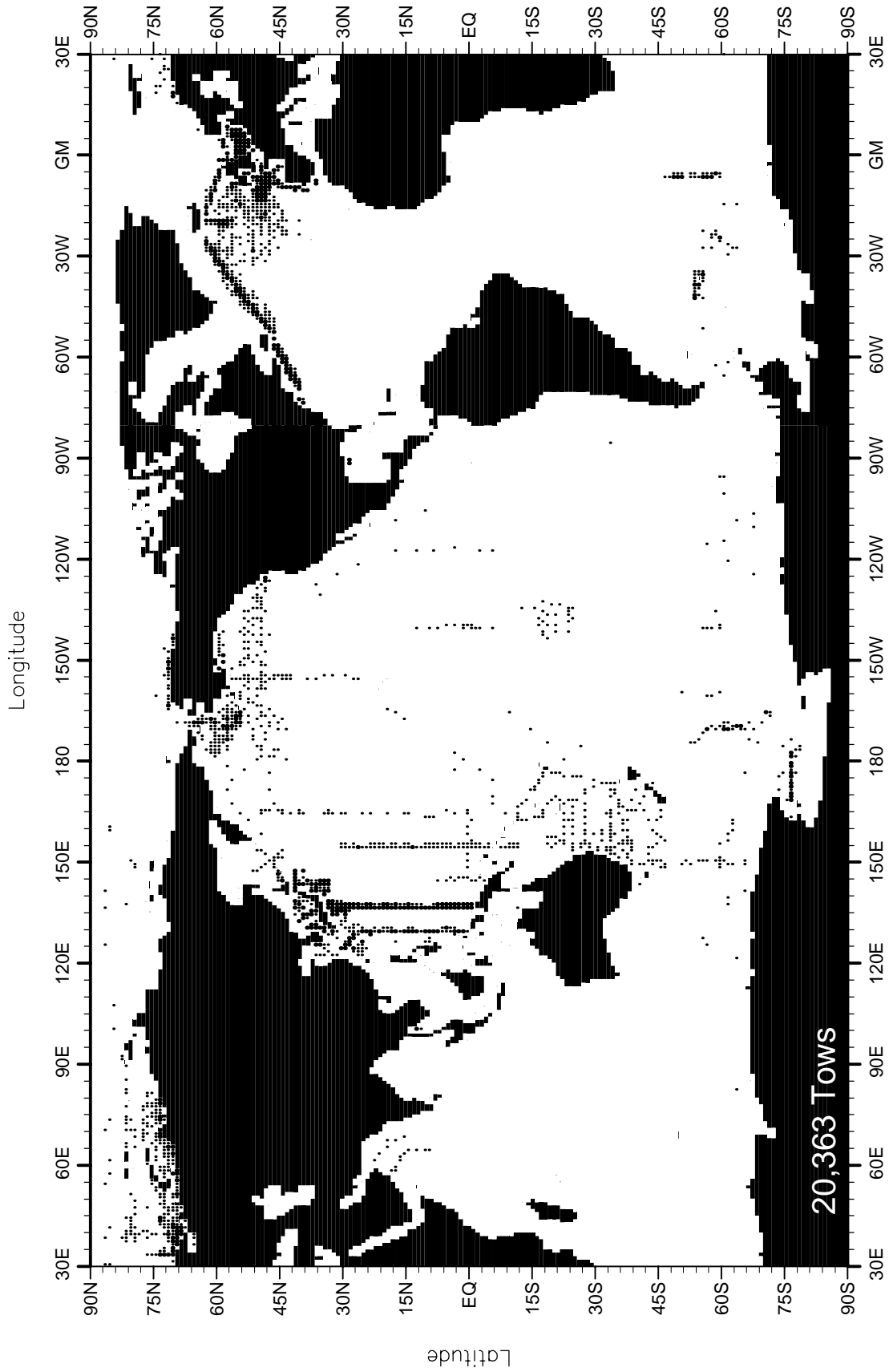


Fig. B2. Annual distribution of all diatom observations.

Table B3: Taxonomic composition of all Dinoflagellates

Number of Tows: 13,937
 Number of Observations: 71,528
 Number of Taxonomic Descriptions: 684

Top 30 Taxonomic Descriptions

Rank	# OBS	ITIS-TSN	DESCRIPTION
1	5,272	10400	<i>Ceratium fusus</i>
2	4,426	9874	<i>Dinophyceae</i>
3	3,866	10031	<i>Gymnodinium</i>
4	3,449	10399	<i>Ceratium furca</i>
5	3,163	10212	<i>Peridinium</i>
6	1,848	10408	<i>Ceratium tripos</i>
7	1,775	10149	<i>Noctiluca miliaris</i>
8	1,744	10077	<i>Gyrodinium</i>
9	1,563	10148	<i>Noctiluca</i>
10	1,459	9877	<i>Prorocentrum</i>
11	1,146	10397	<i>Ceratium</i>
12	1,120	10234	<i>Peridinium pellucidum</i>
13	1,021	9873	<i>Pyrrophytophyta</i>
14	1,016	10340	<i>Proto-peridinium</i>
15	927	10401	<i>Ceratium lineatum</i>
16	866	9879	<i>Prorocentrum micans</i>
17	832	10403	<i>Ceratium macroceros</i>
18	771	9928	<i>Dinophysis</i>
19	736	10223	<i>Peridinium depressum</i>
20	690	10205	<i>Peridiniaceae</i>
21	677	10402	<i>Ceratium longipes</i>
22	583	573414	<i>Gymnodinium wulfii</i>
23	581	10371	<i>Gonyaulax polygramma</i>
24	574	9996	<i>Gymnodiniaceae</i>
25	566	9997	<i>Amphidinium</i>
26	556	10463	<i>Oxytoxum</i>
27	525	9880	<i>Prorocentrum minimum</i>
28	519	10359	<i>Gonyaulax</i>
29	483	10398	<i>Ceratium arcticum</i>
30	466	10041	<i>Gymnodinium lohmanni</i>
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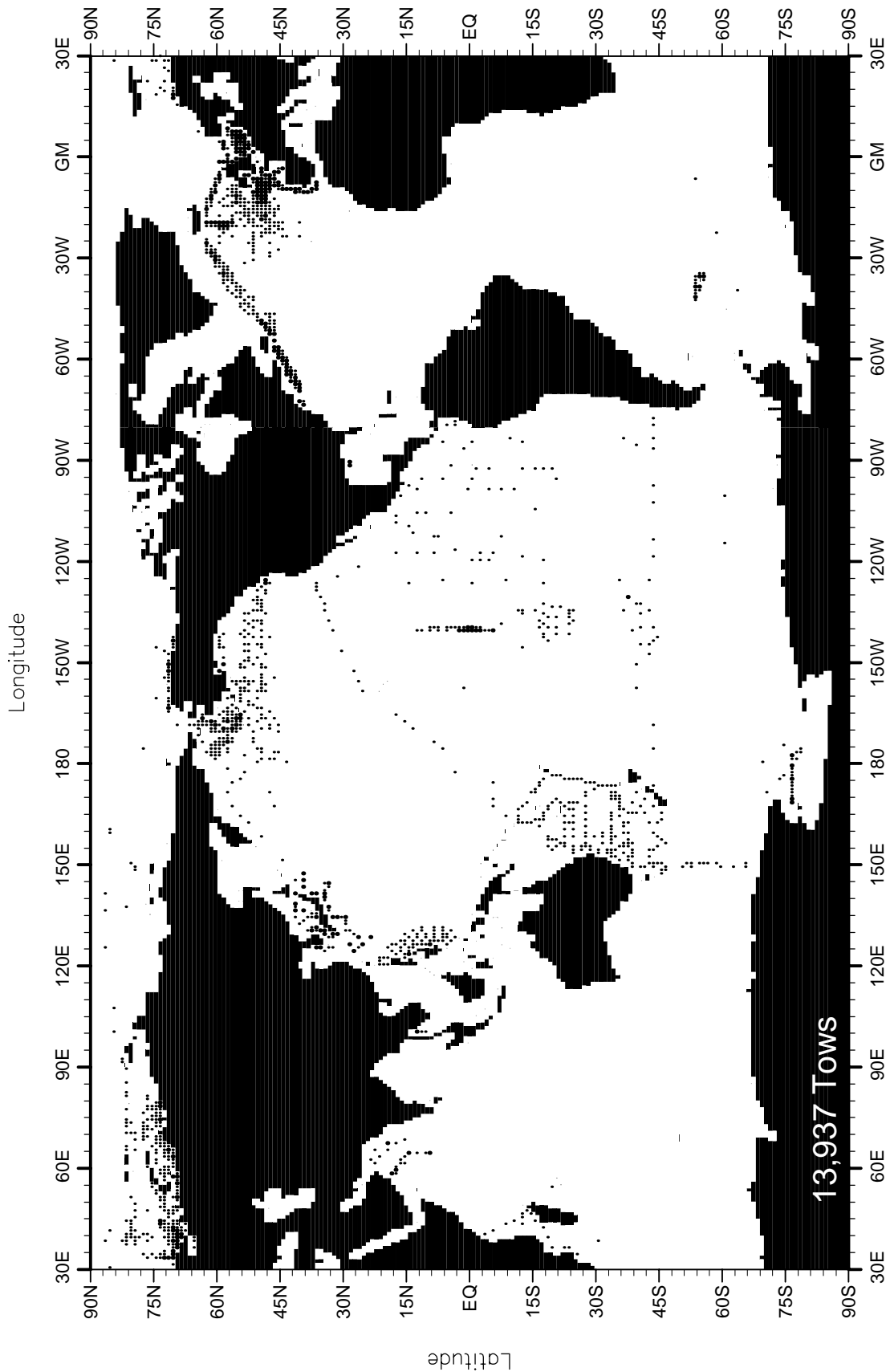


Fig. B3. Annual distribution of all dinoflagellate observations.

Table B4: Taxonomic composition of all Coccolithophores

Number of Tows: 3,623
 Number of Observations: 8,456
 Number of Taxonomic Descriptions: 57

Top 30 Taxonomic Descriptions

Rank	#_OBS	ITIS-TSN	DESCRIPTION
1	1,996	43790	<i>Coccolithophorida</i>
2	1,897	2271	<i>Umbilicosphaera</i>
3	598	2272	<i>Umbilicosphaera mirabilis</i>
4	510	2250	<i>Coccolithus huxleyi</i>
5	501	2248	<i>Coccolithus</i>
6	421	2247	<i>Coccolithaceae</i>
7	418	2173	<i>Phaeocystis pouchetii</i>
8	368	-8017	<i>Phaeocystis antarctica</i>
9	186	2249	<i>Coccolithus pelagicus</i>
10	154	2262	<i>Rhabdosphaera</i>
11	141	2255	<i>Discosphaera</i>
12	127	2187	<i>Acanthoica</i>
13	116	2172	<i>Phaeocystis</i>
14	113	2227	<i>Pontosphaera huxleyi</i>
15	101	2235	<i>Syracosphaera pulchra</i>
16	89	-6007	<i>Chrysochromulina + imantonia</i>
17	81	2252	<i>Cyclococcolithus</i>
18	63	-7011	<i>Coronosphaera mediterranea</i>
19	60	2257	<i>Gephyrocapsa</i>
20	55	2223	<i>Ophiaster hydroideus</i>
21	50	2261	<i>Helicosphaera carteri</i>
22	44	2270	<i>Umbellosphaera hulburtiana</i>
23	38	2148	<i>Imantonia rotunda</i>
24	36	2160	<i>Chrysochromulina</i>
25	30	2199	<i>Calyptosphaera</i>
26	27	-7005	<i>Caneosphaera molischii</i>
27	22	2135	<i>Prymnesiophyceae</i>
28	19	-7955	<i>Coccolithus fragilis</i>
29	19	2234	<i>Syracosphaera</i>
30	17	2256	<i>Discosphaera tubifer</i>
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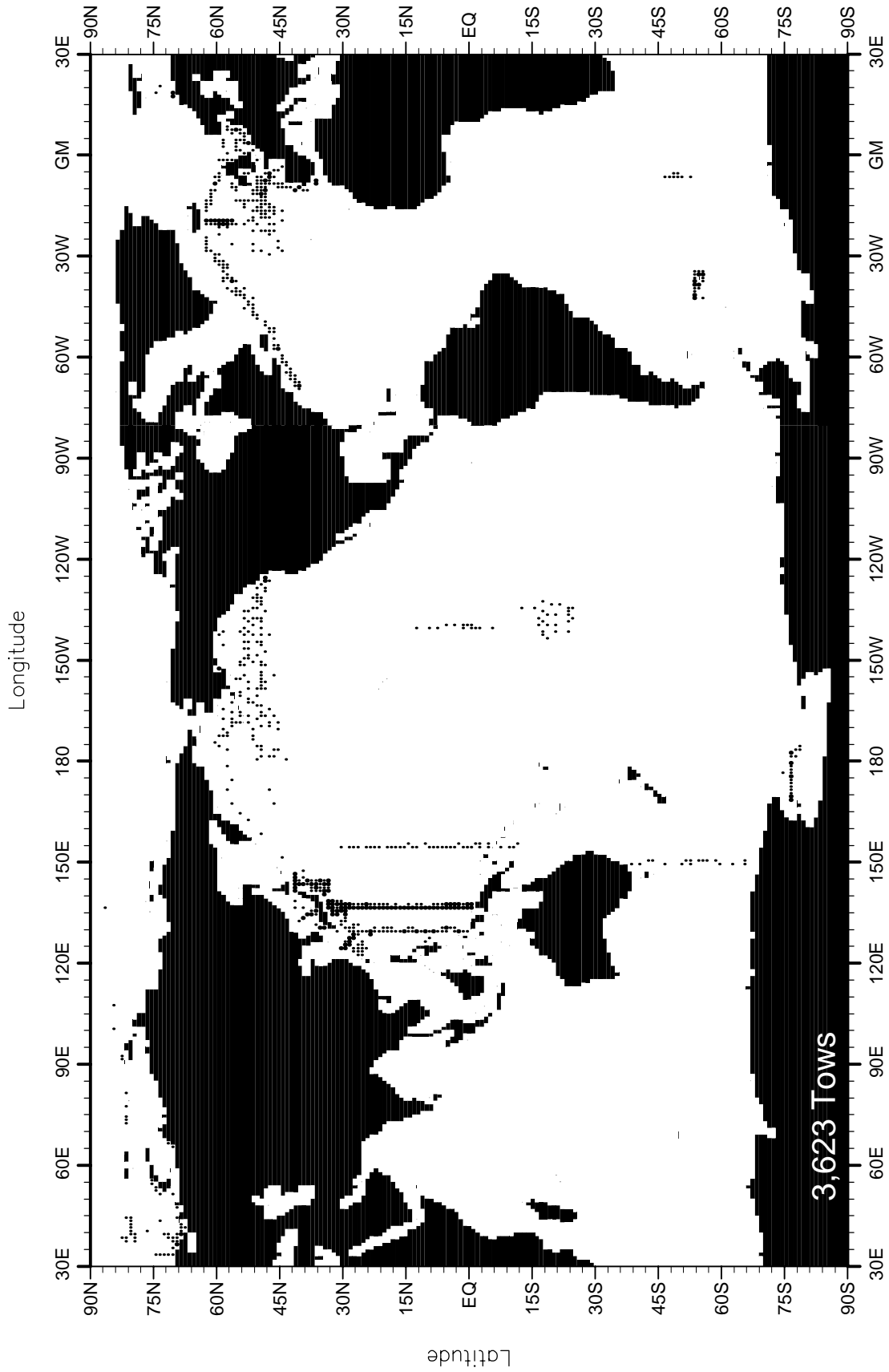


Fig. B4. Annual distribution of all coccolithophore observations.

Table C1: Taxonomic composition of all Protist Plankton

Number of Tows: 12,871
 Number of Observations: 35,005
 Number of Taxonomic Descriptions: 289

Top 30 Taxonomic Descriptions

Rank	#_OBS	ITIS-TSN	DESCRIPTION
1	5,784	44030	<i>Foraminiferida</i>
2	4,845	46088	<i>Radiolaria</i>
3	4,204	43780	<i>Protozoa</i>
4	1,895	-6001	<i>Foraminifera + Radiolaria</i>
5	1,880	-7348	<i>Ellobiopsidae</i>
6	1,751	-5016	<i>Ciliates</i>
7	1,586	46620	<i>Tintinnina</i>
8	1,166	46743	<i>Tintinnidae</i>
9	950	-7255	<i>Parafavella denticulata</i>
10	848	46289	<i>Mesodinium rubrum</i>
11	760	46627	<i>Tintinnopsis</i>
12	657	43848	<i>Sarcodina</i>
13	472	46713	<i>Ptychocylis obtusa</i>
14	420	43782	<i>Mastigophora</i>
15	396	46729	<i>Parafavella gigantea</i>
16	396	46107	<i>Acantharia</i>
17	287	46690	<i>Dictyocysta</i>
18	271	43815	<i>Bodonina</i>
19	253	-7583	<i>Parafavella cylindrica</i>
20	211	-7850	<i>Favella denticulata var cylindrica</i>
21	196	-7584	<i>Parafavella robusta</i>
22	196	46211	<i>Ciliophora</i>
23	169	331709	<i>Codonellopsis</i>
24	168	46111	<i>Acanthometron</i>
25	158	-7855	<i>Favella denticulata var rotundata</i>
26	158	-7585	<i>Parafavella subrotundata</i>
27	151	-7586	<i>Parafavella tenuis</i>
28	135	-7852	<i>Favella denticulata var gigantea</i>
29	135	-7581	<i>Leprotintinnus pellucidus</i>
30	127	46707	<i>Favella</i>
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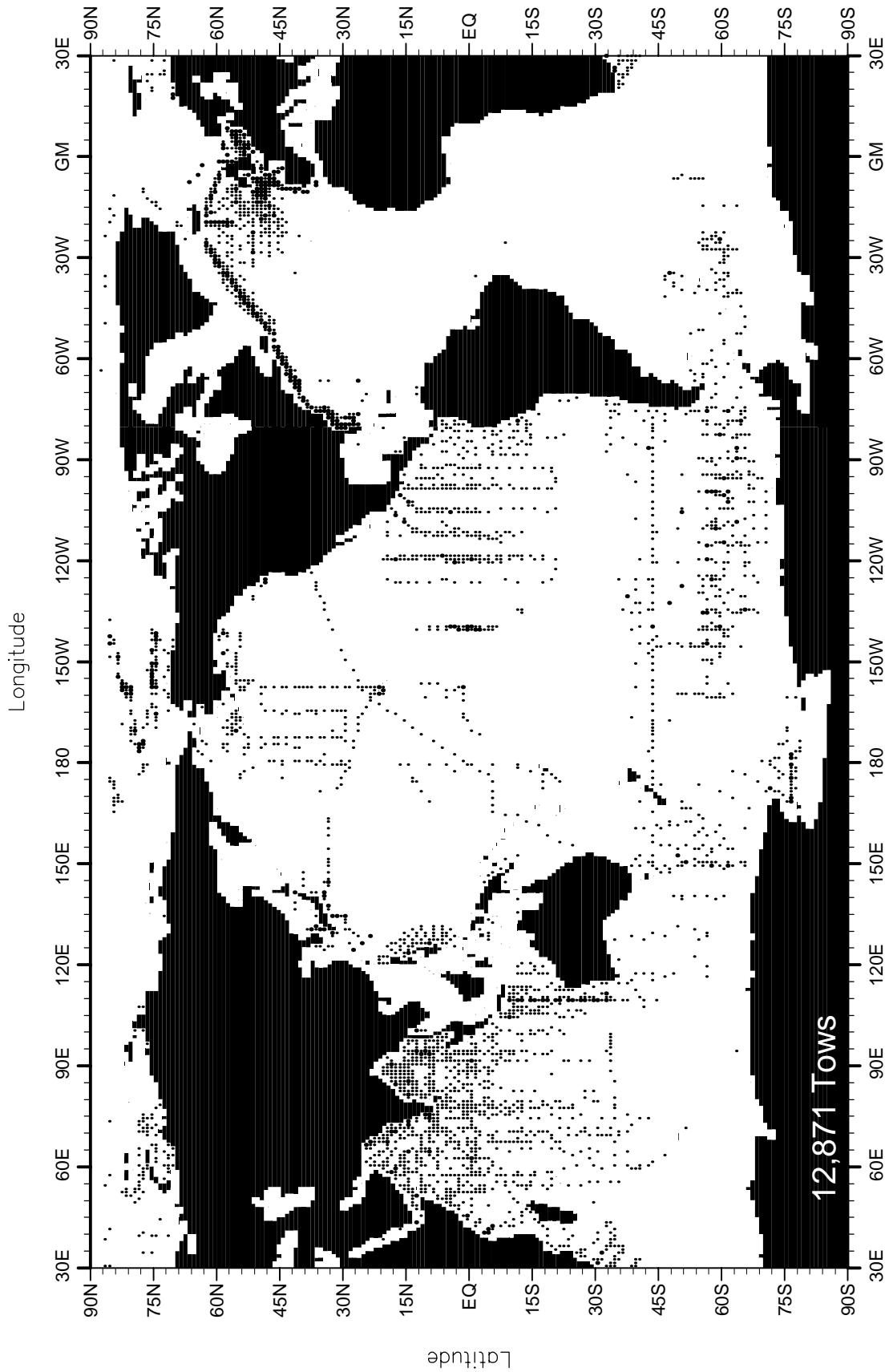


Fig. C1. Annual distribution of all protist plankton observations.

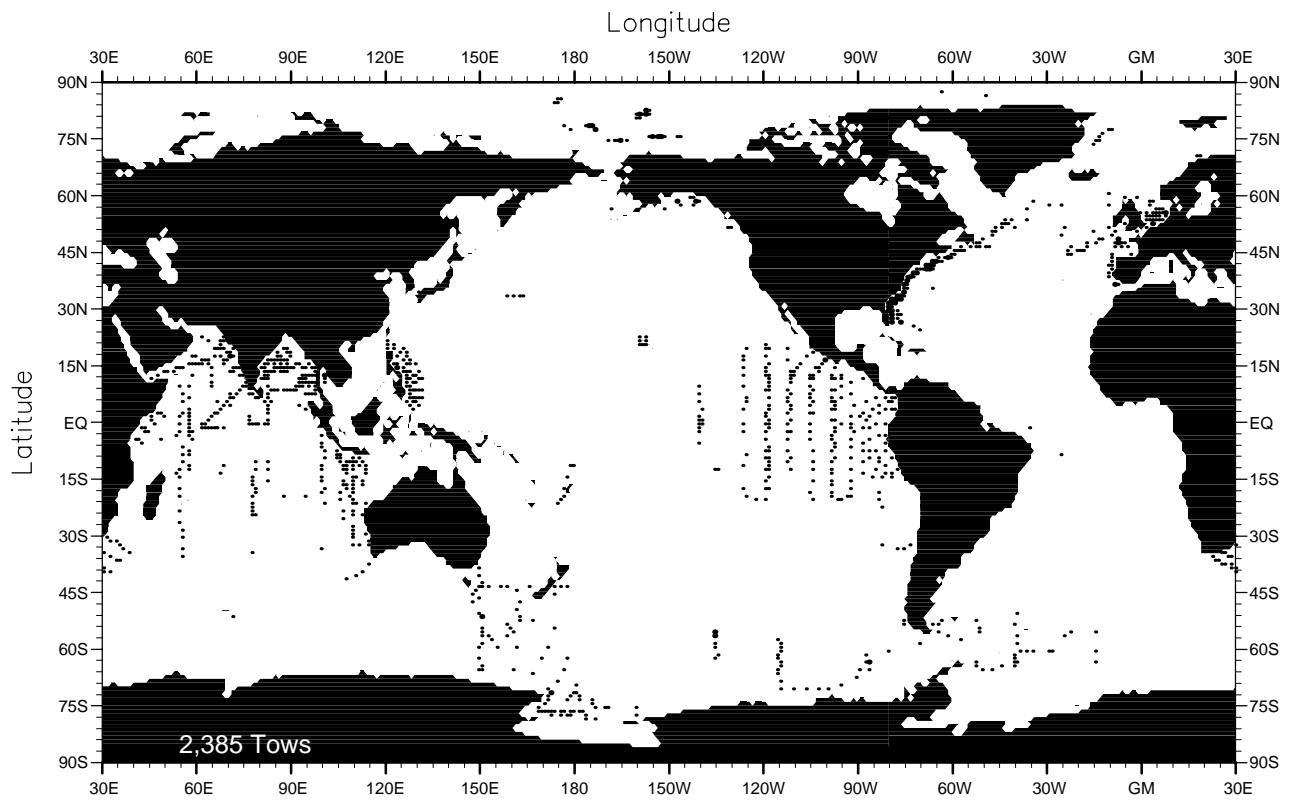


Fig. C1.1 Winter (Jan.-Mar.) distribution of all protist plankton observations.

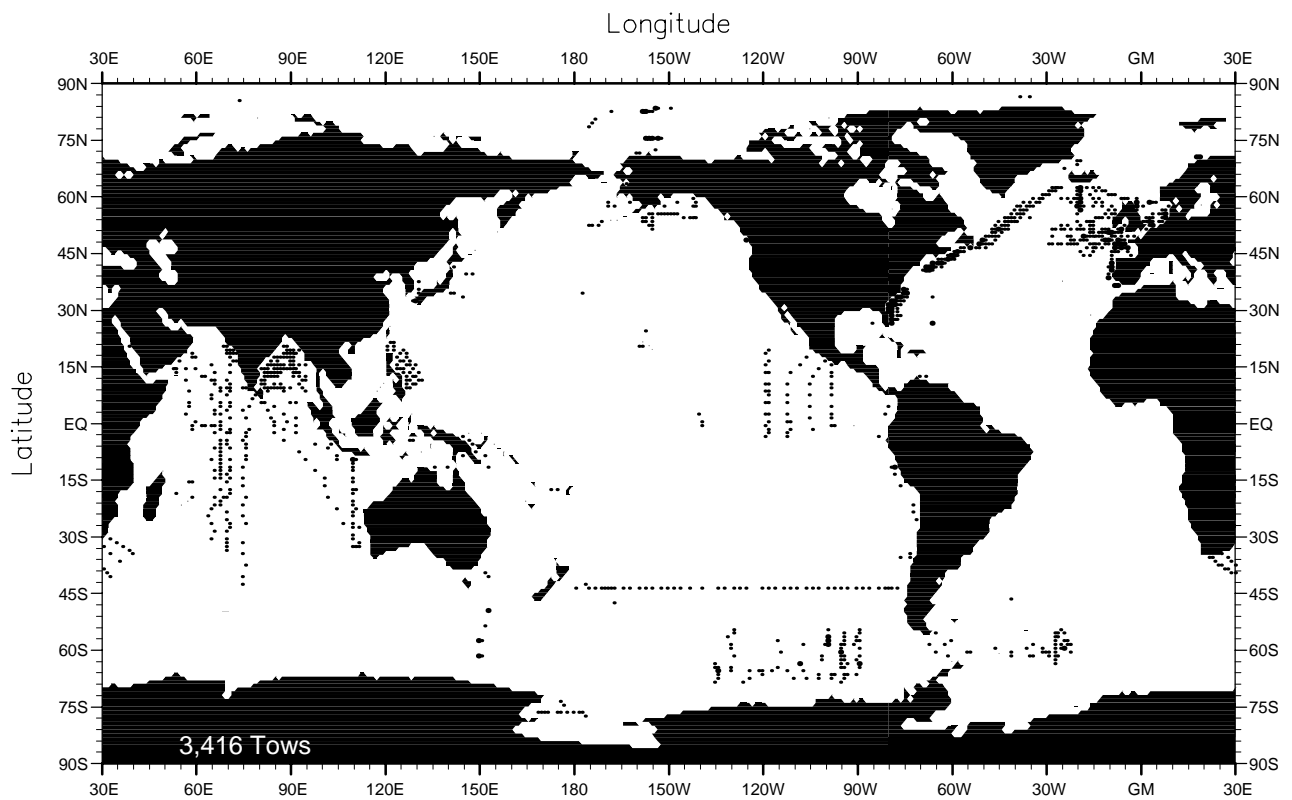


Fig. C1.2 Spring (Apr.-Jun.) distribution of all protist plankton observations.

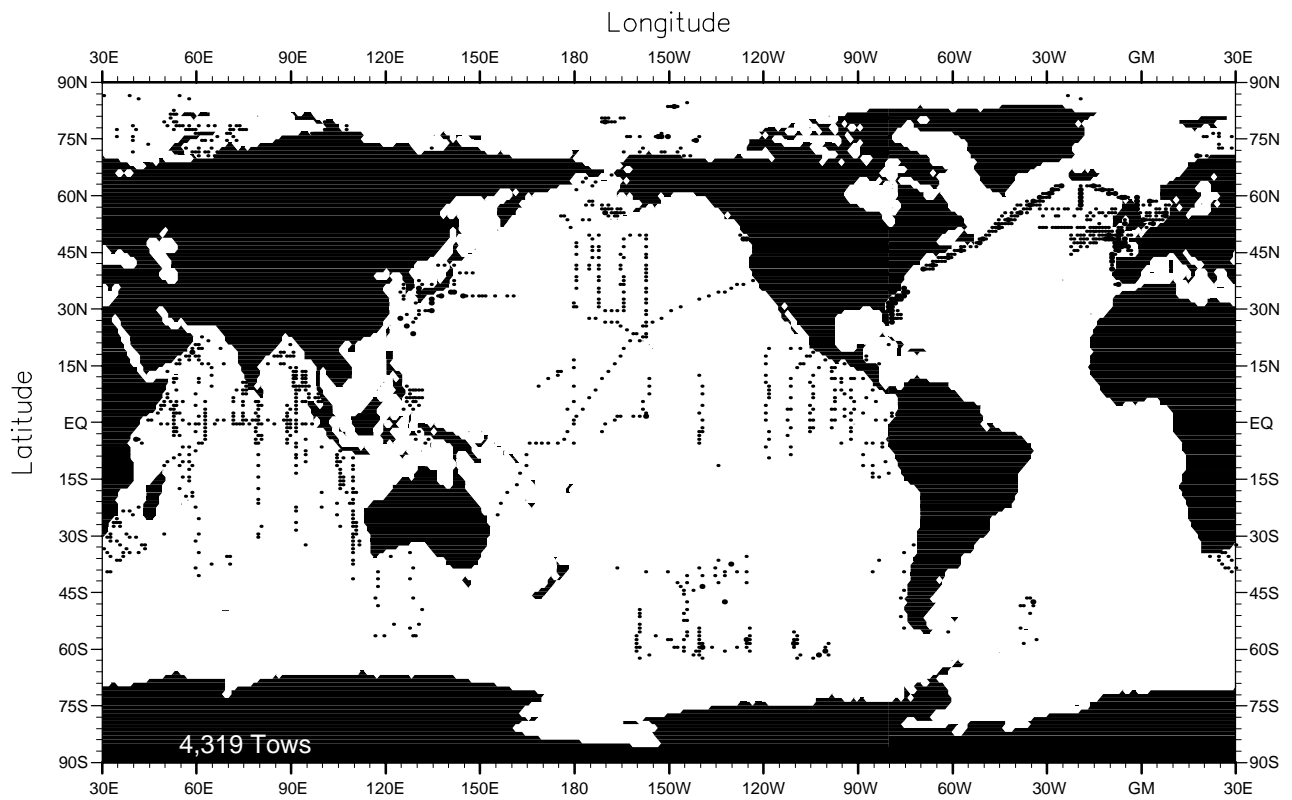


Fig. C1.3 Summer (Jul.-Sep.) distribution of all protist plankton observations.

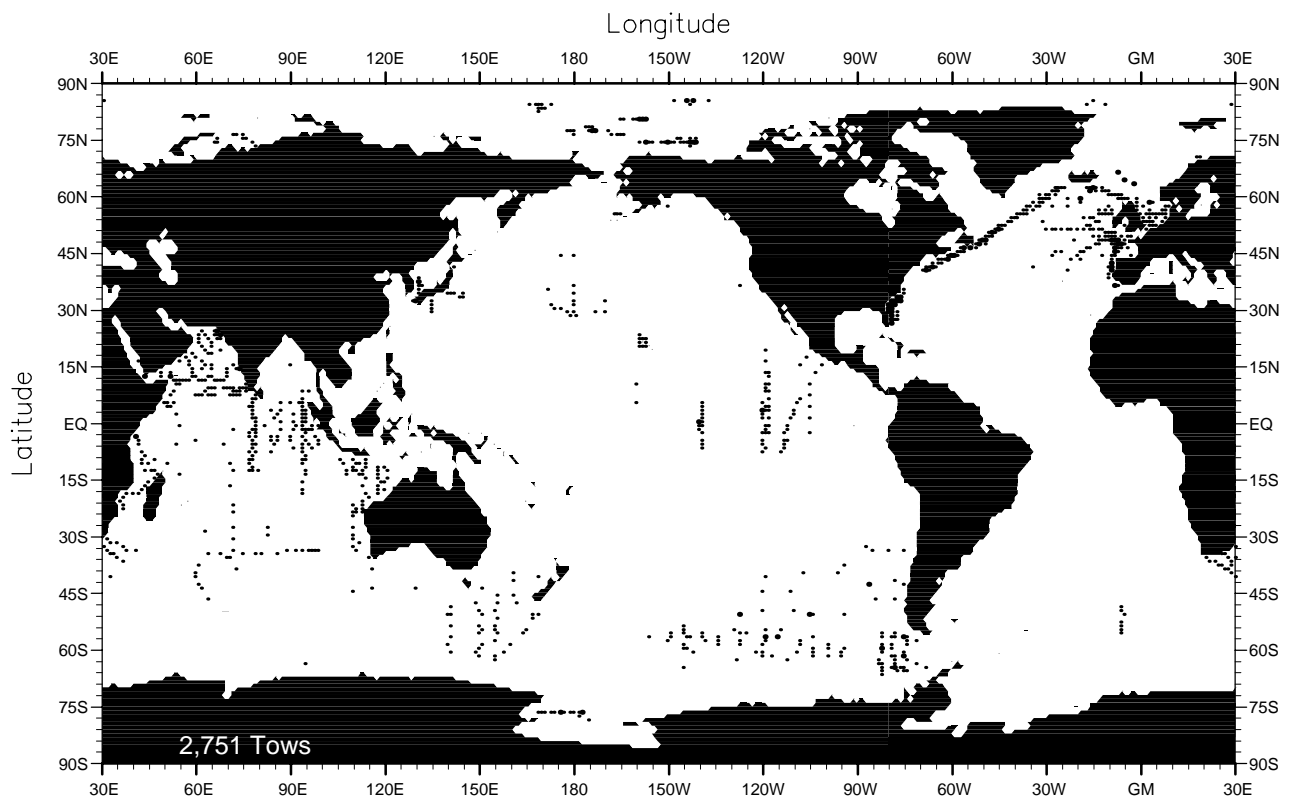


Fig. C1.4 Fall (Oct.-Dec.) distribution of all protist plankton observations.

Table C2: Taxonomic composition of all Foraminifera

Number of Tows: 4,194
Number of Observations: 5,991
Number of Taxonomic Descriptions: 7

Top 30 Taxonomic Descriptions

Rank	#_OBS	ITIS-TSN	DESCRIPTION
1	5,784	44030	<i>Foraminiferida</i>
2	93	45796	<i>Globigerina</i>
3	75	45794	<i>Globigerinidae</i>
4	24	45797	<i>Globigerina bulloides</i>
5	13	45779	<i>Globorotaliidae</i>
6	1	45820	<i>Globigerinita</i>
7	1	45782	<i>Globorotalia</i>

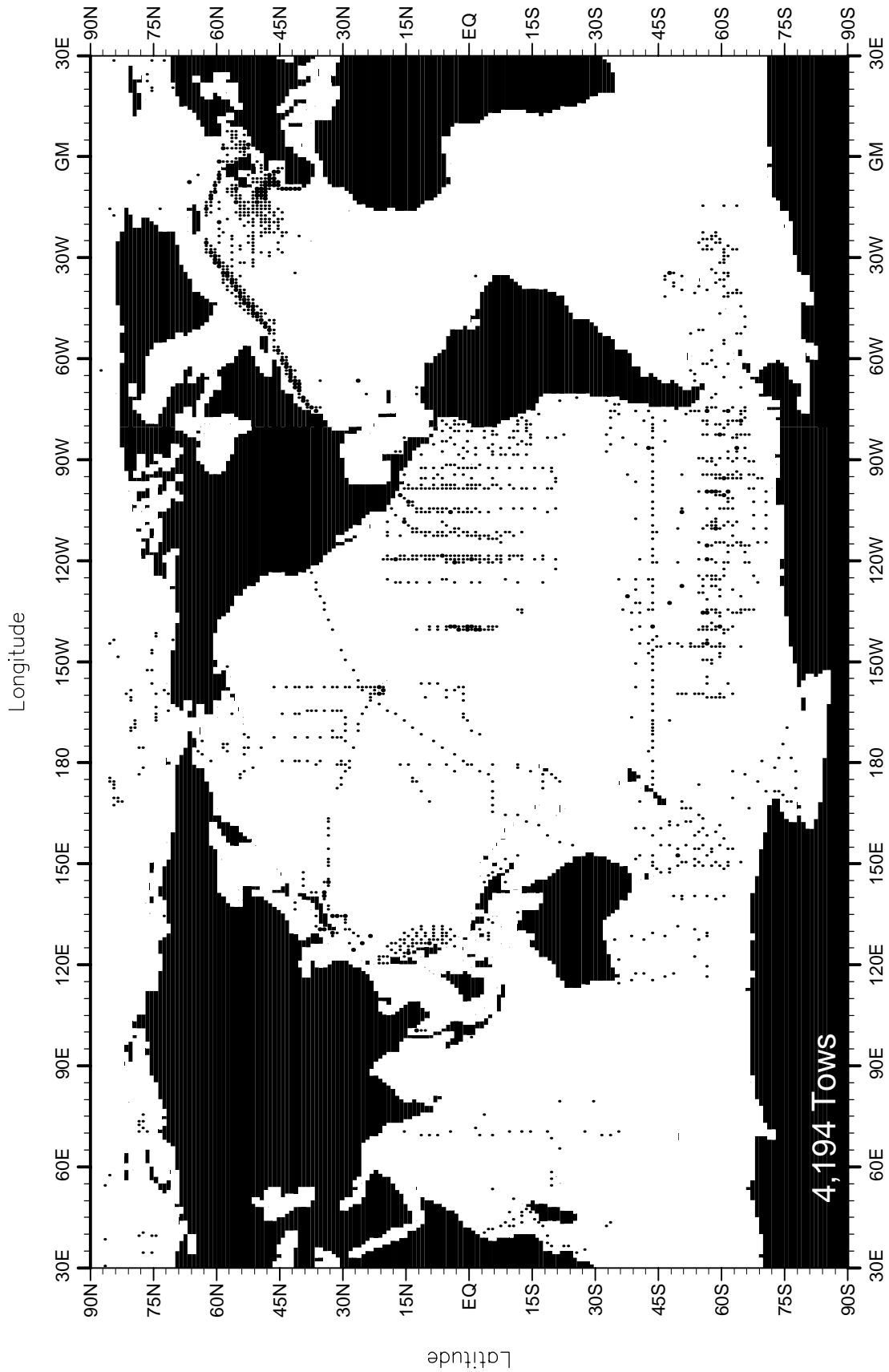


Fig. C2. Annual distribution of all foraminifera observations.

Table C3: Taxonomic composition of all Radiolaria

Number of Tows:	3,804
Number of Observations:	5,790
Number of Taxonomic Descriptions:	40

Top 30 Taxonomic Descriptions

Rank	#_OBS	ITIS-TSN	DESCRIPTION
1	4,845	46088	<i>Radiolaria</i>
2	396	46107	<i>Acantharia</i>
3	168	46111	<i>Acanthometron</i>
4	104	-7830	<i>Botryopyle setosa</i>
5	88	550459	<i>Acanthometron pellucida</i>
6	36	-7882	<i>Plectacantha oikiskos</i>
7	26	-7229	<i>Stauracantha quadrifurca</i>
8	22	46106	<i>Aulacantha scolymantha</i>
9	21	-7225	<i>Amphilithium</i>
10	15	-7824	<i>Amphimelissa setosa</i>
11	12	-7840	<i>Dictyophimus gracilipes</i>
12	9	-7768	<i>Nephrospirus</i>
13	6	-7883	<i>Protocystis</i>
14	5	-7869	<i>Haliomma beroes</i>
15	5	-7844	<i>Echinomma leptodermum</i>
16	2	46080	<i>Actinopodea</i>
17	2	-7825	<i>Amphimelissa stenostoma</i>
18	2	-7241	<i>Aulosphaera trigonopa</i>
19	2	-7240	<i>Corocalyptra elisabethae</i>
20	2	-7237	<i>Eucecryphalus</i>
21	2	-7233	<i>Sphaerozoum geminatum</i>
22	2	-7228	<i>Amphilithium clavarium</i>
23	1	-7843	<i>Dorataspis heteopora</i>
24	1	-7362	<i>Coleaspis vaginata</i>
25	1	-7361	<i>Diploconus amalla</i>
26	1	-7351	<i>Amphilonche belonoides</i>
27	1	-7230	<i>Pleuraspis costata</i>
28	1	46100	<i>Dictyophimus</i>
29	1	-7894	<i>Trochodiscus helioides</i>
30	1	-7893	<i>Trochodiscus echiniscus</i>
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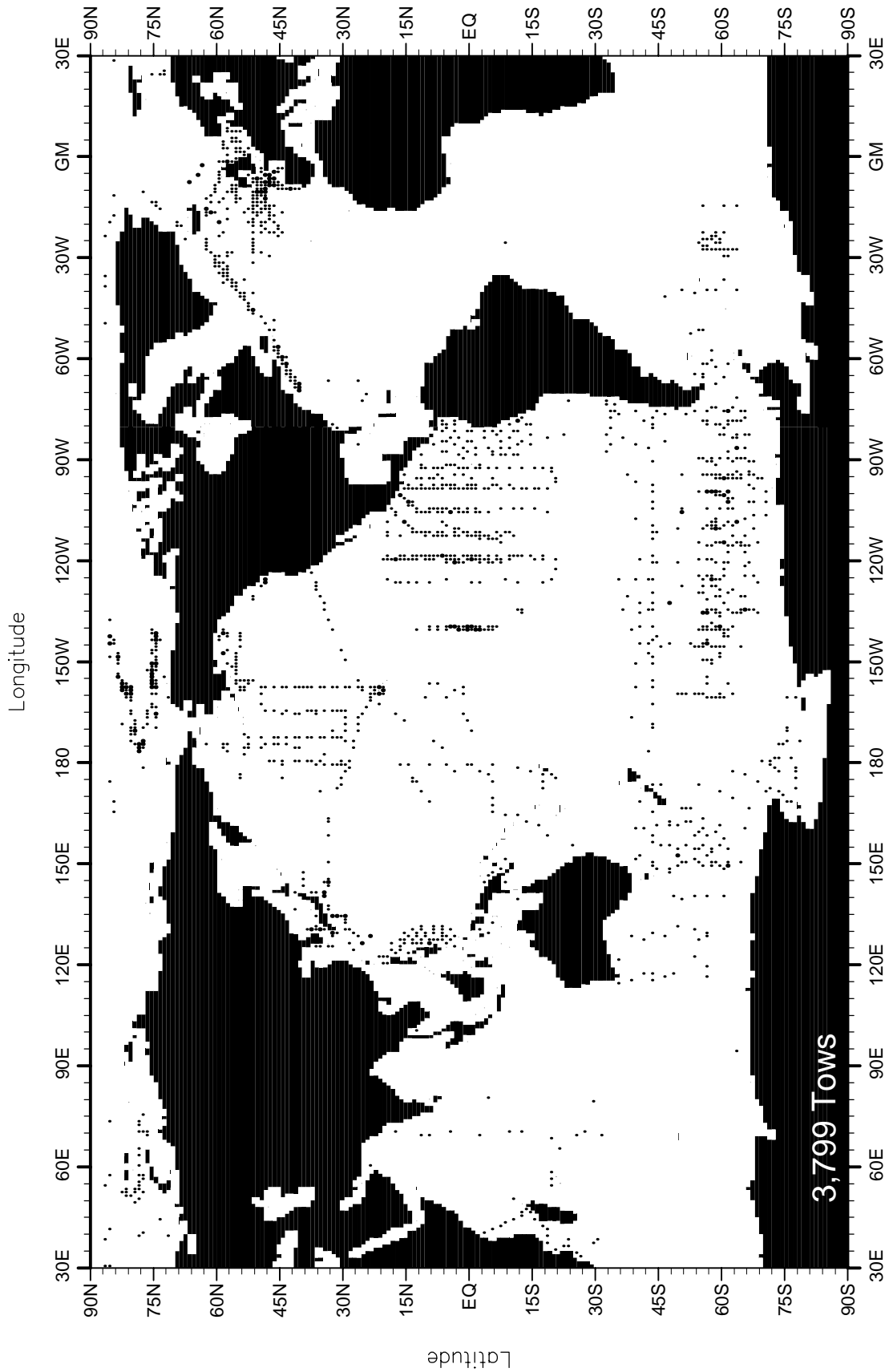


Fig. C3. Annual distribution of all radiolarian observations.

Table C4: Taxonomic composition of all Ciliophora

Number of Tows: 3,799
 Number of Observations: 13,725
 Number of Taxonomic Descriptions: 229

Top 30 Taxonomic Descriptions

Rank	#_OBS	ITIS-TSN	DESCRIPTION
1	1,751	-5016	"Ciliates"
2	1,586	46620	<i>Tintinnina</i>
3	1,166	46743	<i>Tintinnidae</i>
4	950	-7255	<i>Parafavella denticulata</i>
5	848	46289	<i>Mesodinium rubrum</i>
6	760	46627	<i>Tintinnopsis</i>
7	472	46713	<i>Ptychocylis obtusa</i>
8	396	46729	<i>Parafavella gigantea</i>
9	287	46690	<i>Dictyocysta</i>
10	253	-7583	<i>Parafavella cylindrica</i>
11	211	-7850	<i>Favella denticulata</i> var <i>cylindrica</i>
12	196	-7584	<i>Parafavella robusta</i>
13	196	46211	<i>Ciliophora</i>
14	169	331709	<i>Codonellopsis</i>
15	158	-7855	<i>Favella denticulata</i> var <i>rotundata</i>
16	158	-7585	<i>Parafavella subrotundata</i>
17	151	-7586	<i>Parafavella tenuis</i>
18	135	-7852	<i>Favella denticulata</i> var <i>gigantea</i>
19	135	-7581	<i>Leprotintinnus pellucidus</i>
20	127	46707	<i>Favella</i>
21	126	-7854	<i>Favella denticulata</i> var <i>robusta</i>
22	121	-7680	<i>Salpingella secata</i>
23	101	-7262	<i>Amphorella quadrilineata</i>
24	84	46656	<i>Tintinnopsis radix</i>
25	84	-7849	<i>Favella denticulata</i> var <i>acuta</i>
26	83	46773	<i>Acanthostomella norvegica</i>
27	82	46730	<i>Parafavella parumdentata</i>
28	76	-7856	<i>Favella denticulata</i> var <i>subrotundata</i>
29	76	46460	<i>Sessilina</i>
30	76	46287	<i>Mesodinium</i>
...			

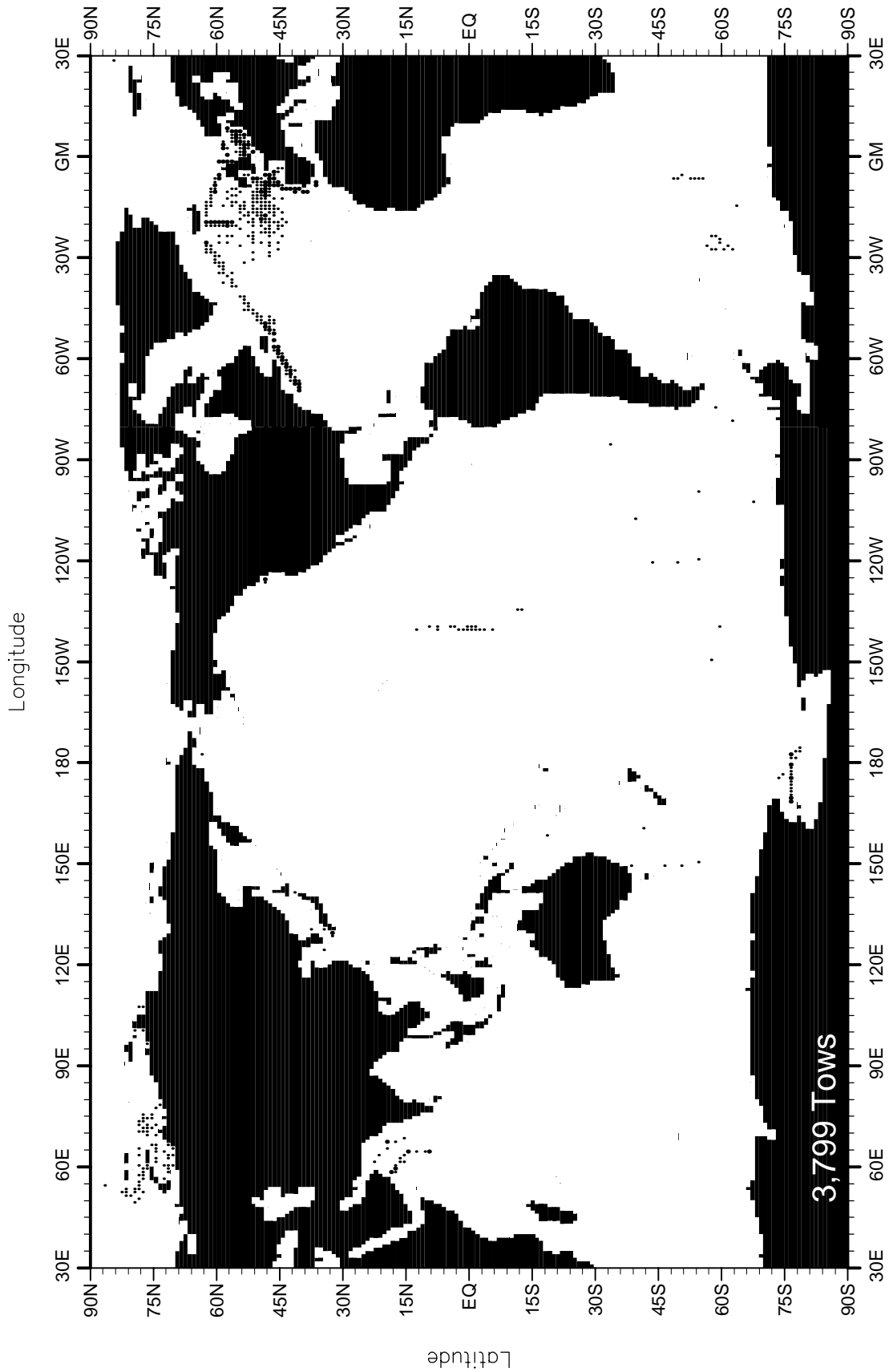


Fig. C4. Annual distribution of all ciliopora observations.

Table D1: Taxonomic composition of all Zooplankton

Number of Tows: 41,178
 Number of Observations: 860,566
 Number of Taxonomic Descriptions: 1,726

Top 30 Taxonomic Descriptions

Rank	# OBS	ITIS-TSN	DESCRIPTION
1	58,691	85272	<i>Calanus finmarchicus</i>
2	37,055	85257	<i>Copepoda</i>
3	22,108	158650	<i>Chaetognatha</i>
4	21,684	85369	<i>Pseudocalanus</i>
5	20,942	88805	<i>Oithona similis</i>
6	17,915	85371	<i>Pseudocalanus minutus</i>
7	16,710	95496	<i>Euphausiacea</i>
8	16,670	85746	<i>Metridia longa</i>
9	15,514	86087	<i>Acartia longiremis</i>
10	14,828	88802	<i>Oithona</i>
11	14,220	64358	<i>Polychaeta</i>
12	14,059	95599	<i>Decapoda</i>
13	13,818	85545	<i>Pareuchaeta norvegica</i>
14	13,538	93294	<i>Amphipoda</i>
15	12,008	85877	<i>Temora longicornis</i>
16	11,352	69459	<i>Gastropoda</i>
17	11,265	85741	<i>Metridia lucens</i>
18	10,817	-5002	"Zooplankton"
19	10,158	84195	<i>Ostracoda</i>
20	10,011	159664	<i>Appendicularia (aka "larvacea")</i>
21	9,805	85766	<i>Centropages hamatus</i>
22	9,653	85263	<i>Calanus</i>
23	8,650	85370	<i>Pseudocalanus elongatus</i>
24	8,617	76333	<i>Thecosomata</i>
25	8,262	156857	<i>Echinodermata</i>
26	7,951	51268	<i>Siphonophora</i>
27	7,708	85267	<i>Calanus glacialis</i>
28	7,532	89433	<i>Cirripedia</i>
29	7,163	88541	<i>Oncaea borealis</i>
30	6,644	48739	<i>Hydrozoa</i>
...			

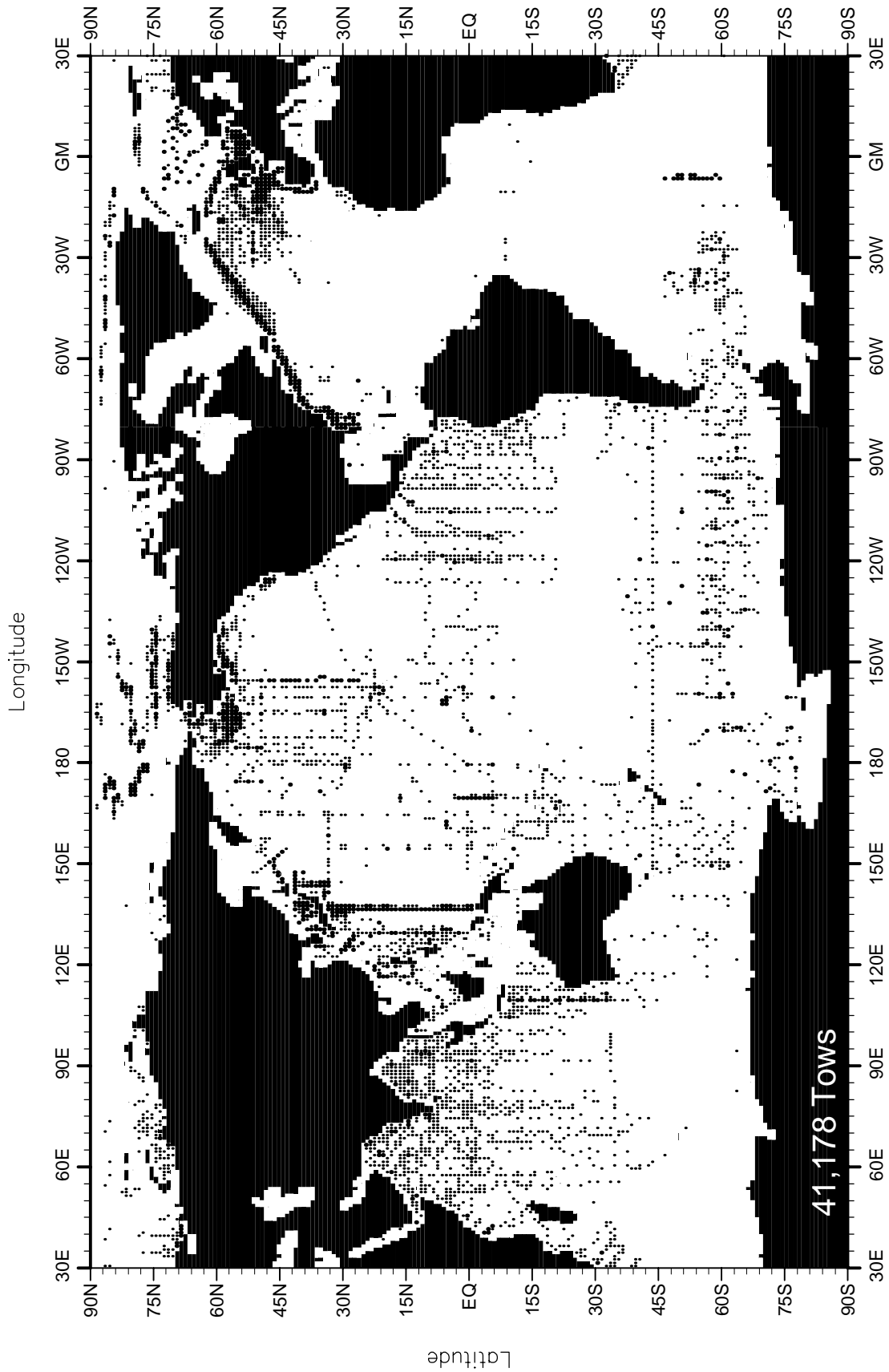


Fig. D1. Annual distribution of all zooplankton observations.

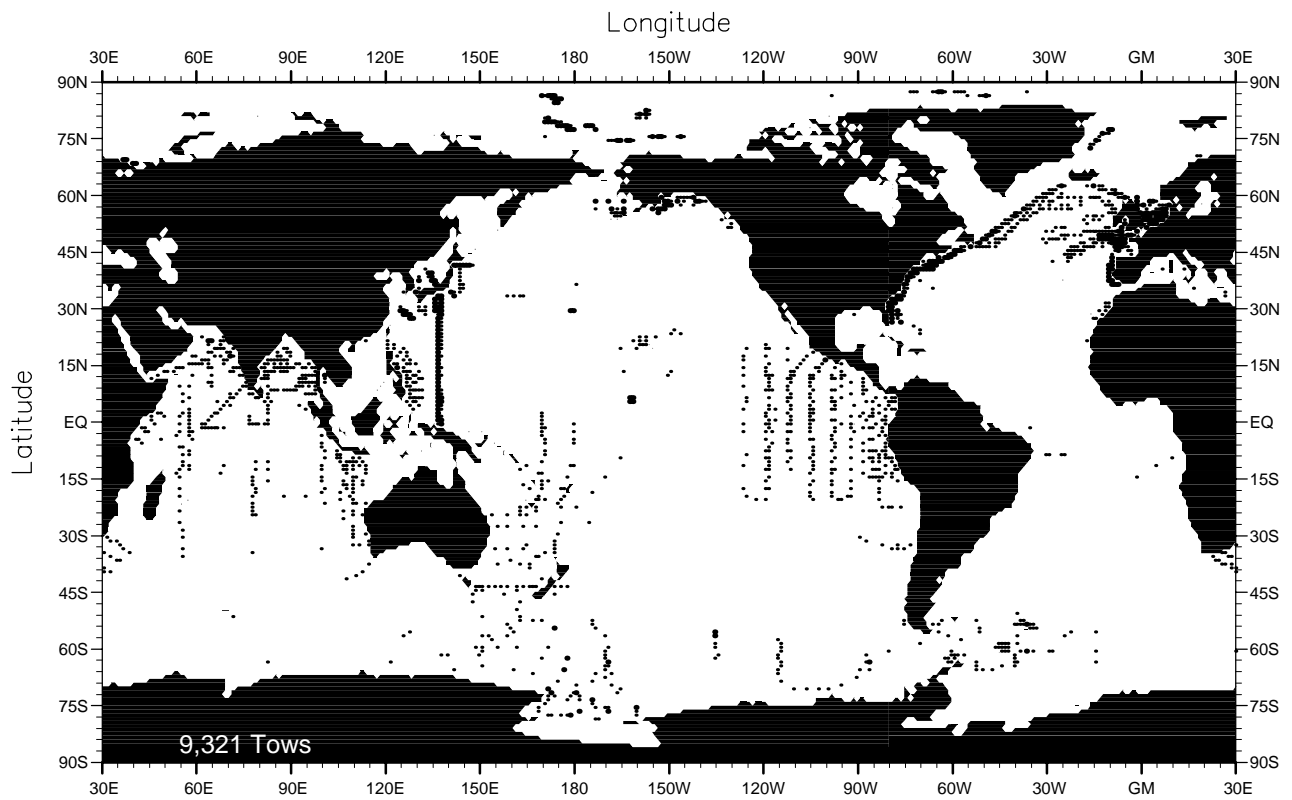


Fig. D1.1 Winter (Jan.-Mar.) distribution of all zooplankton observations.

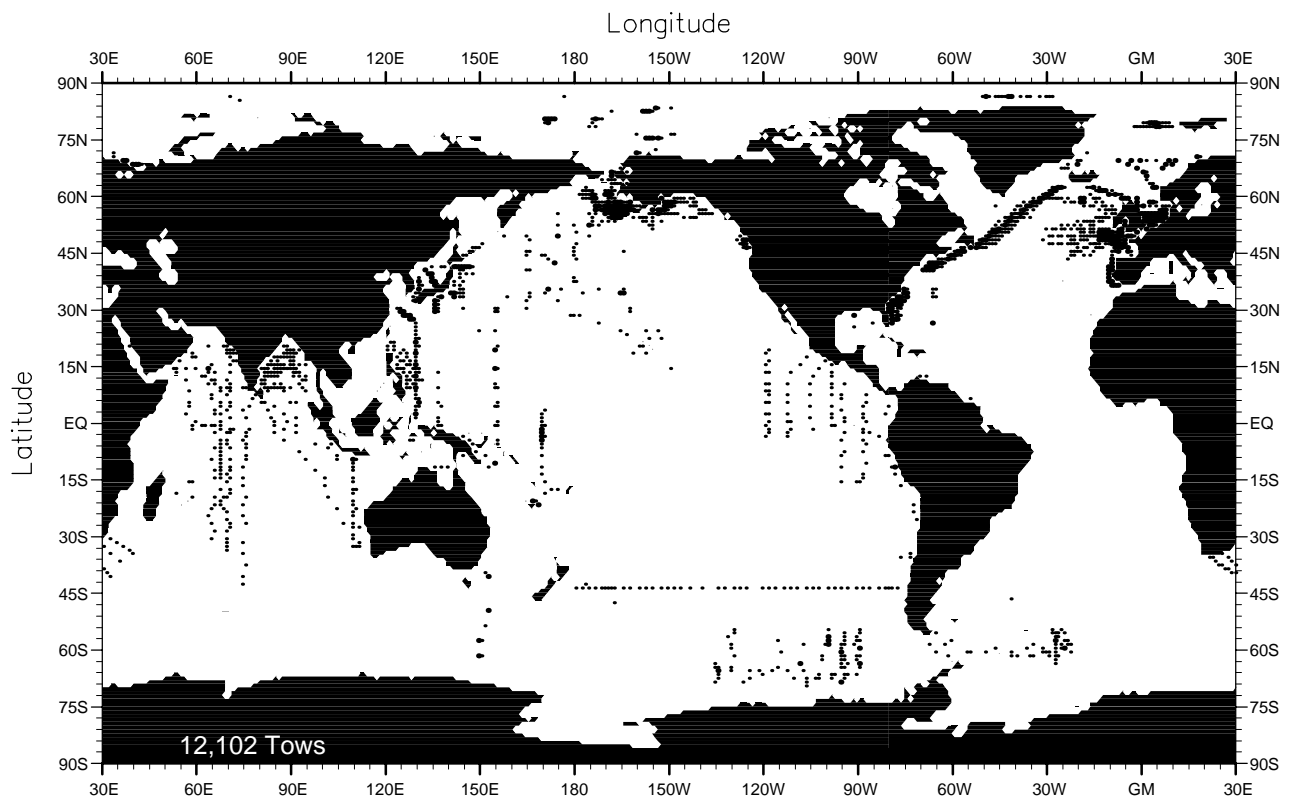


Fig. D1.2 Spring (Apr.-Jun.) distribution of all zooplankton observations.

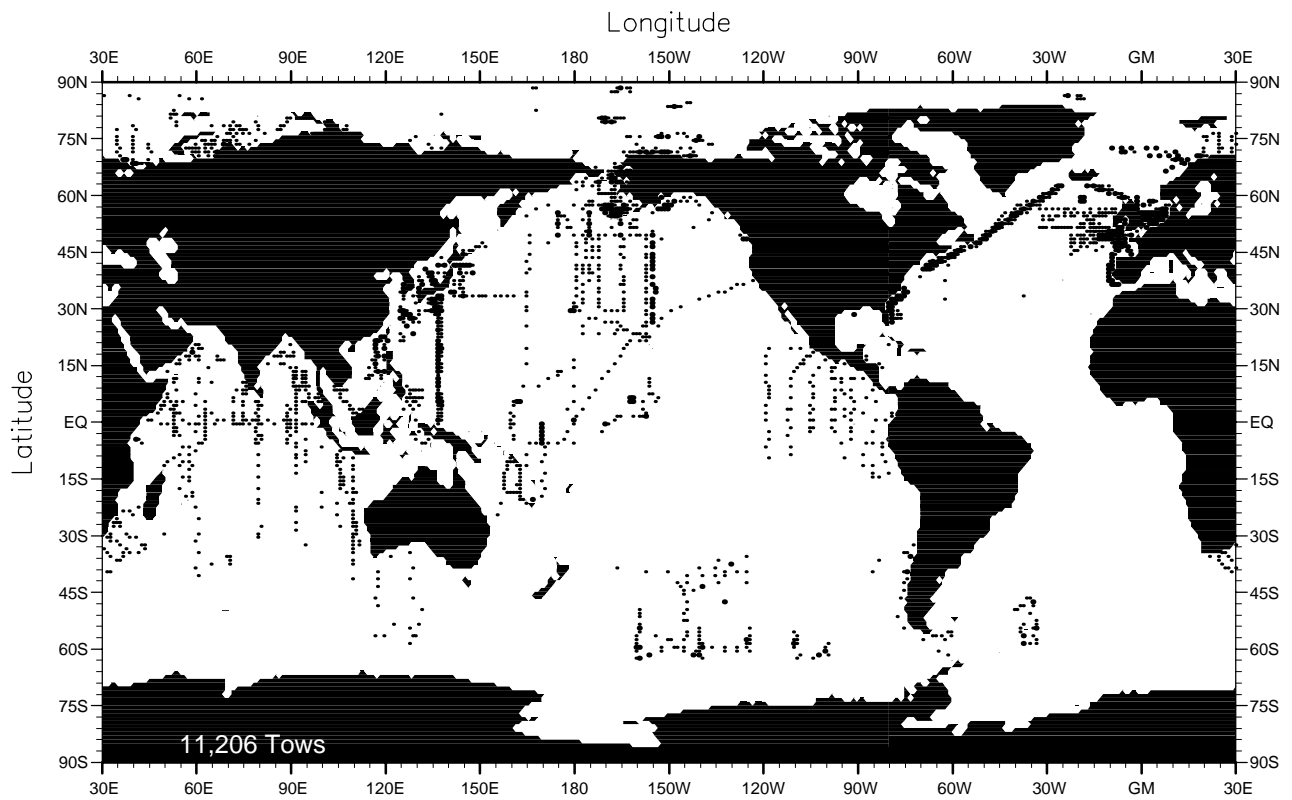


Fig. D1.3 Summer (Jul.-Sep.) distribution of all zooplankton observations.

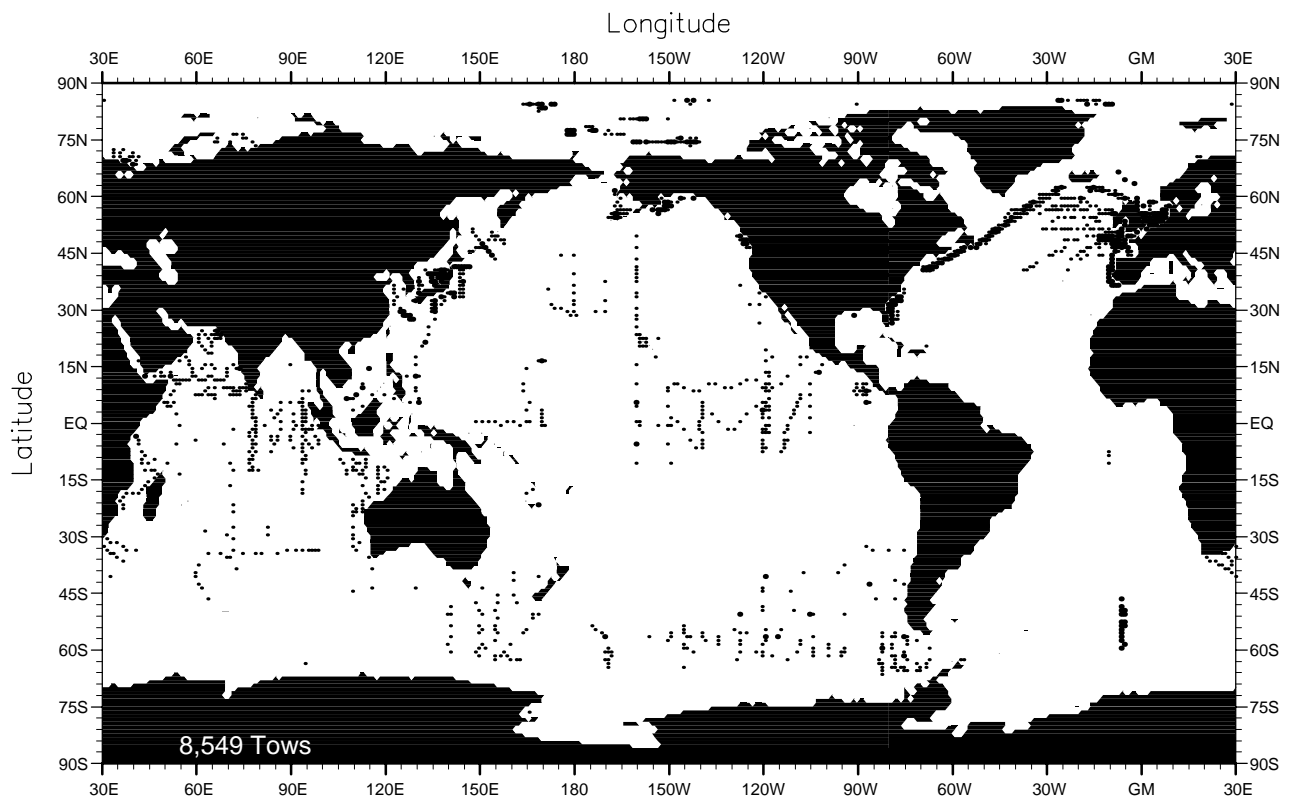


Fig. D1.4 Fall (Oct.-Dec.) distribution of all zooplankton observations.

Table D2: Taxonomic composition of all Cnidaria

Number of Tows: 14,521
 Number of Observations: 41,284
 Number of Taxonomic Descriptions: 155

Top 30 Taxonomic Descriptions

Rank	# OBS	ITIS-TSN	DESCRIPTION
1	7,951	51268	<i>Siphonophora</i>
2	6,644	48739	<i>Hydrozoa</i>
3	4,669	48738	<i>Cnidaria</i>
4	3,599	51094	<i>Aglantha digitalis</i>
5	2,883	51938	<i>Anthozoa</i>
6	2,786	-5009	"Jellyfish"
7	2,234	51483	<i>Scyphozoa</i>
8	1,897	51265	<i>Velella</i>
9	1,895	51260	<i>Porpita</i>
10	1,892	51435	<i>Physalia</i>
11	460	51159	<i>Aeginopsis laurentii</i>
12	298	51302	<i>Dimophyes arctica</i>
13	274	48740	<i>Hydroida</i>
14	206	49523	<i>Obelia flabellata</i>
15	196	49387	<i>Rathkea octopunctata</i>
16	190	-7568	<i>Arachnactis bournei</i>
17	175	49451	<i>Corymorpha flammea</i>
18	162	49536	<i>Phialidium</i>
19	153	51631	<i>Tetraplatia</i>
20	137	51093	<i>Aglantha</i>
21	128	-7611	<i>Nectophores bracts</i>
22	124	-5020	<i>Hydromedusae</i>
23	122	49173	<i>Catablema vesicarium</i>
24	122	48934	<i>Plotocnide borealis</i>
25	121	50814	<i>Proboscidactyla</i>
26	107	48933	<i>Plotocnide</i>
27	104	51671	<i>Cyanea capillata</i>
28	96	49515	<i>Obelia longissima</i>
29	93	48978	<i>Euphysa flammea</i>
30	83	48767	<i>Bougainvillia superciliaris</i>
...			

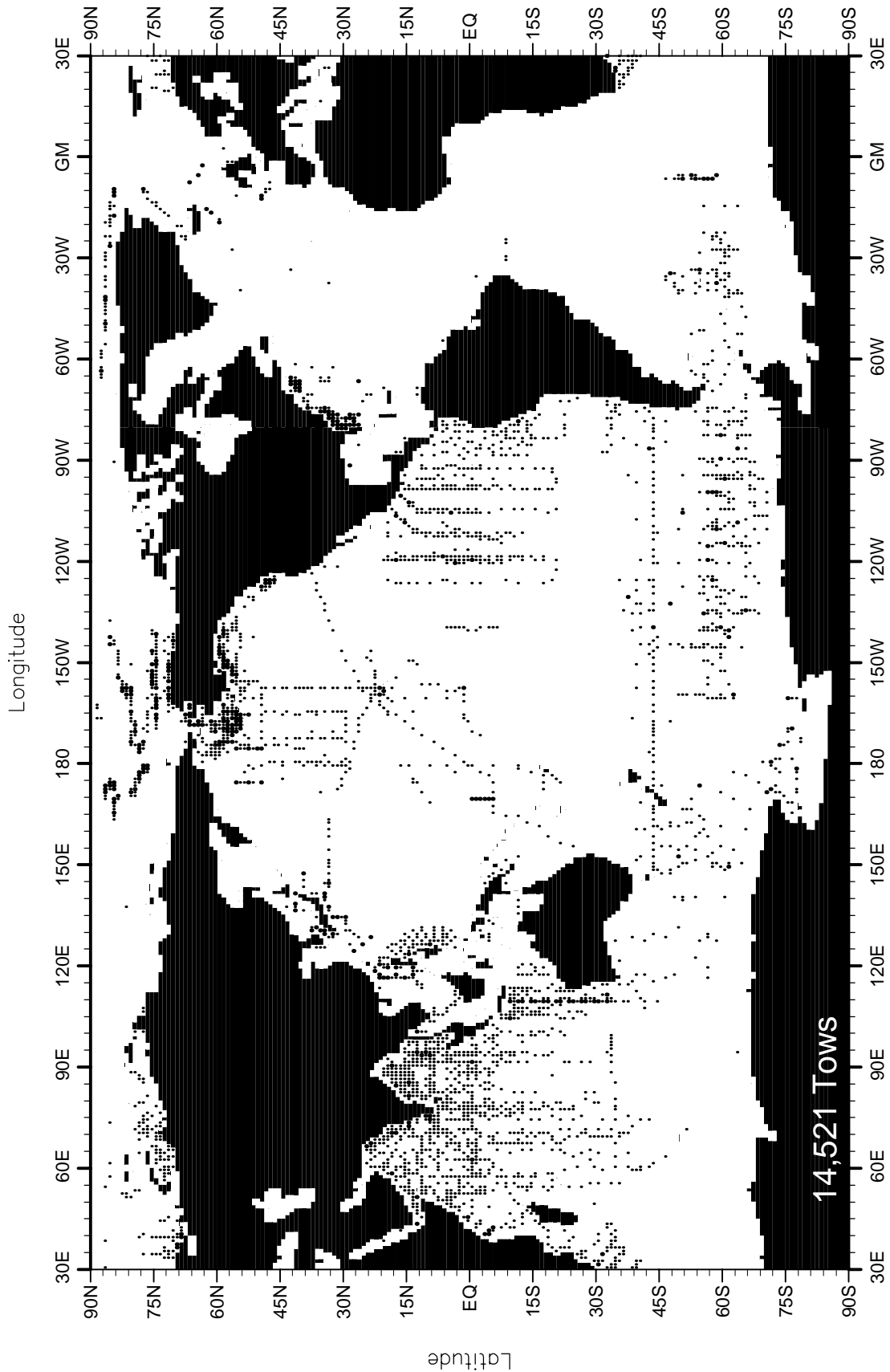


Fig. D2. Annual distribution of all cnidarian observations.

Table D3: Taxonomic composition of all Ctenophora

Number of Tows: 3.672
 Number of Observations: 4,957
 Number of Taxonomic Descriptions: 12

Top 30 Taxonomic Descriptions

Rank	#_OBS	ITIS-TSN	DESCRIPTION
1	3,237	53856	<i>Ctenophora</i>
2	1,059	53954	<i>Beroe</i>
3	286	53868	<i>Hormiphora cucumis</i>
4	261	53861	<i>Pleurobrachia</i>
5	42	53903	<i>Bolinopsis</i>
6	42	53862	<i>Pleurobrachia pileus</i>
7	13	53881	<i>Mertensia ovum</i>
8	10	53858	<i>Tentaculata</i>
9	3	53904	<i>Bolinopsis infundibulum</i>
10	2	-7271	<i>Hormiphoro palmata</i>
11	1	53956	<i>Beroe ovata</i>
12	1	53879	<i>Mertensia</i>

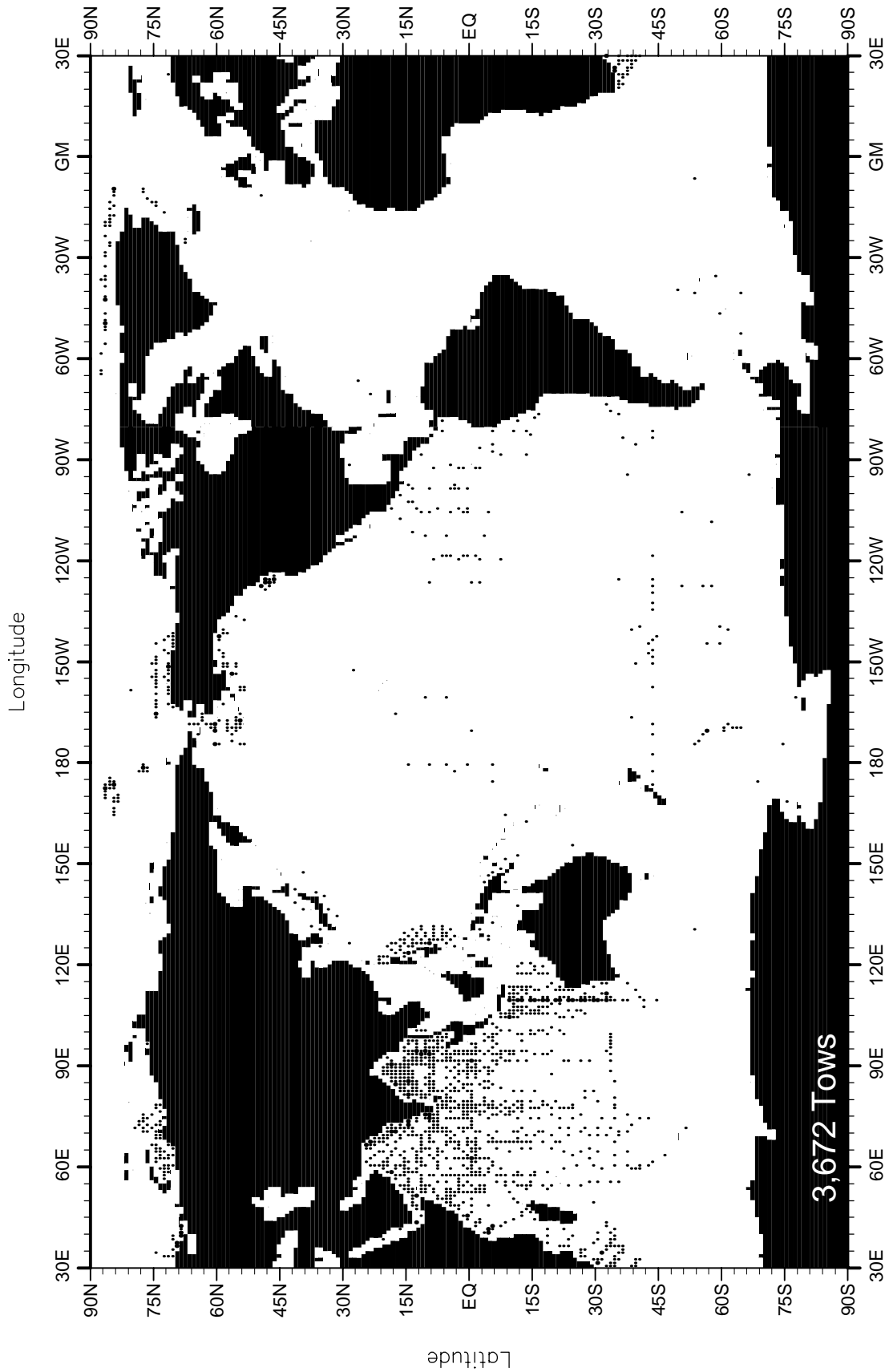


Fig. D3. Annual distribution of all ctenophore observations.

Table D4: Taxonomic composition of all Gastropods

Number of Tows: 12,834
 Number of Observations: 37,848
 Number of Taxonomic Descriptions: 79

Top 30 Taxonomic Descriptions

Rank	# OBS	ITIS-TSN	DESCRIPTION
1	11,352	69459	<i>Gastropoda</i>
2	8,617	76333	<i>Thecosomata</i>
3	4,343	331672	<i>Heteropoda</i>
4	1,994	78062	<i>Gymnosomata</i>
5	1,987	78156	<i>Nudibranchia</i>
6	1,905	72387	<i>Janthina</i>
7	1,651	76340	<i>Limacina helicina</i>
8	1,535	-8020	<i>Gastropod larvae & Pteropods</i>
9	1,529	76351	<i>Limacina retroversa</i>
10	844	78089	<i>Clione limacina</i>
11	602	76336	<i>Limacina</i>
12	564	72386	<i>Janthinidae</i>
13	114	76387	<i>Creseis</i>
14	111	72839	<i>Atlanta</i>
15	106	78088	<i>Clione</i>
16	44	76420	<i>Cymbuliidae</i>
17	39	76407	<i>Peraclis</i>
18	38	204837	<i>Pilidium</i>
19	37	76388	<i>Creseis acicula</i>
20	36	-7073	<i>Charcotia bifrons</i>
21	32	74103	<i>Nassarius</i>
22	29	-8023	<i>Pteropods thecosomes</i>
23	29	-8022	<i>Pteropods gymnosomes</i>
24	25	72838	<i>Atlantidae</i>
25	22	78071	<i>Pneumodermopsis</i>
26	22	72878	<i>Naticidae</i>
27	21	78780	<i>Prosobranchia</i>
28	21	76356	<i>Cavolinia</i>
29	21	72840	<i>Atlanta gaudichaudi</i>
30	14	76389	<i>Creseis virgula</i>
...			

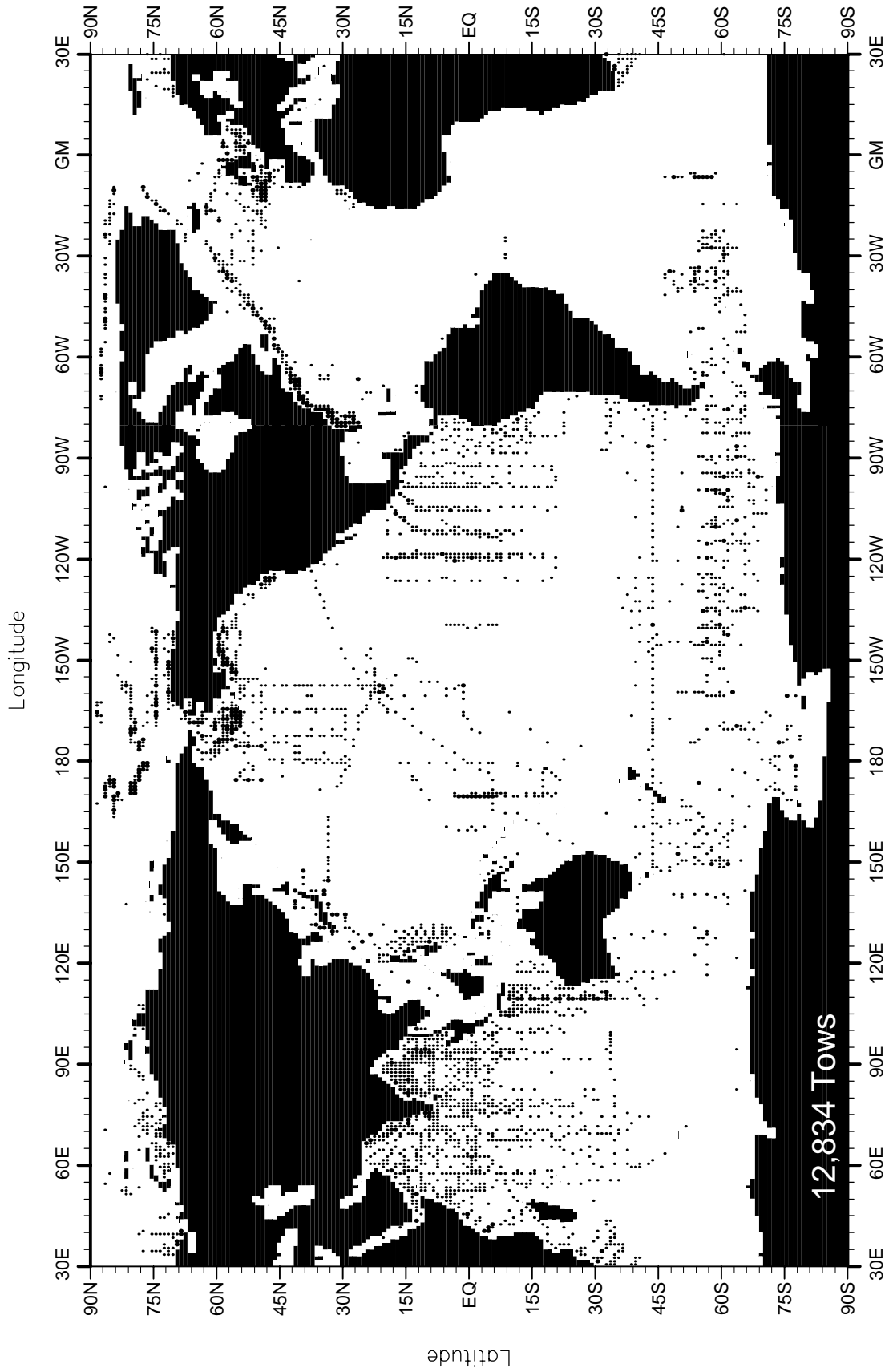


Fig. D4. Annual distribution of all gastropod observations.

Table D5: Taxonomic composition of all Cephalopods

Number of Tows: 4,007
 Number of Observations: 5,190
 Number of Taxonomic Descriptions: 55

Top 30 Taxonomic Descriptions

Rank	# OBS	ITIS-TSN	DESCRIPTION
1	4,911	82326	<i>Cephalopoda</i>
2	68	-7278	<i>Decembrachiata</i>
3	13	-5015	"Squid"
4	12	82405	<i>Pterygioteuthis giardi</i>
5	10	82655	<i>Japetella diaphana</i>
6	10	82397	<i>Enoploteuthidae</i>
7	10	-7641	<i>Rhynchoteuthion</i>
8	9	82414	<i>Gonatidae</i>
9	9	82368	<i>Myopsida</i>
10	8	556517	<i>Liocranchia reinhardti</i>
11	8	205733	<i>Helicocranchia pfefferi</i>
12	8	82419	<i>Gonatus fabrici</i>
13	7	82577	<i>Cranchia armata</i>
14	7	82415	<i>Gonatopsis</i>
15	6	556284	<i>Sthenoteuthis oualaniensis</i>
16	6	82418	<i>Gonatus</i>
17	5	82443	<i>Onychia</i>
18	5	82436	<i>Onychoteuthidae</i>
19	5	556083	<i>Liocranchia valdiviae</i>
20	4	82587	<i>Vampyroteuthis infernalis</i>
21	4	82406	<i>Abralia</i>
22	4	556140	<i>Abraliopsis lineata</i>
23	4	82590	<i>Octopodidae</i>
24	4	82421	<i>Gonatus magister</i>
25	4	82330	<i>Coleoidea</i>
26	3	82367	<i>Theuthoidea</i>
27	2	82595	"Octopus"
28	2	556011	<i>Watasenia scintillans</i>
29	2	82584	<i>Bathothauma lyromma</i>
30	2	82578	<i>Cranchia scabra</i>
...			

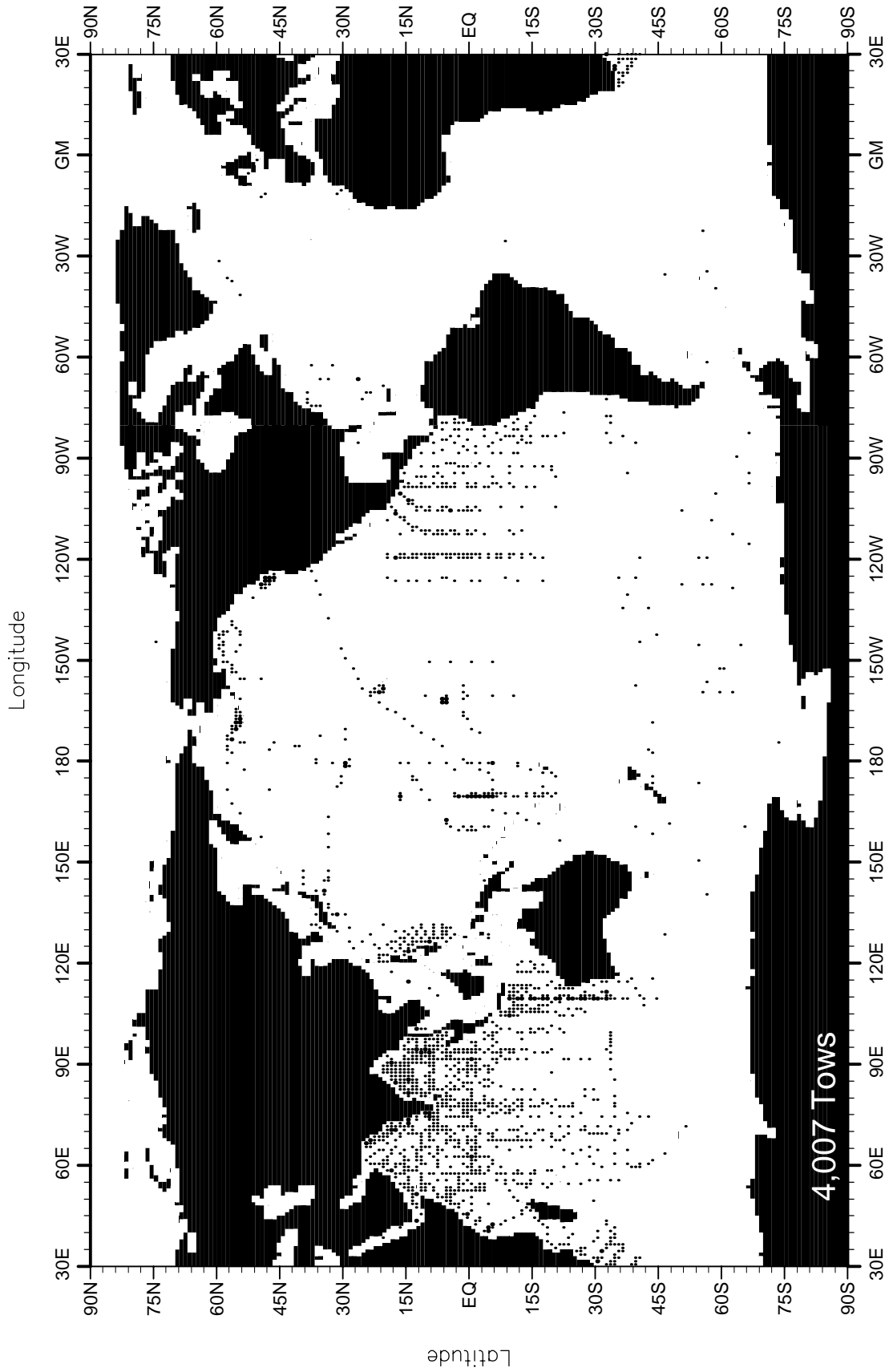


Fig. D5. Annual distribution of all cephalopod observations.

Table D6: Taxonomic composition of all Polychaetes

Number of Tows: 10,264
 Number of Observations: 18,962
 Number of Taxonomic Descriptions: 72

Top 30 Taxonomic Descriptions

Rank	# OBS	ITIS-TSN	DESCRIPTION
1	14,220	64358	<i>Polychaeta</i>
2	2,514	65459	<i>Tomopteridae</i>
3	1,169	66781	<i>Spionidae</i>
4	277	65460	<i>Tomopteris</i>
5	159	65462	<i>Tomopteris septentrionalis</i>
6	72	65452	<i>Typhloscolex meulleri</i>
7	59	67042	<i>Magelonidae</i>
8	56	64397	<i>Polynoidae</i>
9	26	65464	<i>Tomopteris elegans</i>
10	26	65450	<i>Sagitella kowalewskii</i>
11	25	67644	<i>Oweniidae</i>
12	24	65465	<i>Tomopteris helgolandica</i>
13	24	65228	<i>Phyllodocidae</i>
14	22	65449	<i>Sagitella</i>
15	18	64359	<i>Aphroditidae</i>
16	16	67706	<i>Pectinaria</i>
17	14	65423	<i>Pelagobia longicirrata</i>
18	11	65463	<i>Tomopteris pacifica</i>
19	9	67096	<i>Chaetopterus</i>
20	9	65803	<i>Syllides</i>
21	7	66011	<i>Nephtys</i>
22	7	65588	<i>Autolytus</i>
23	7	-7282	<i>Typhloscolex mulleri</i>
24	6	65412	<i>Krohnia</i>
25	6	65407	<i>Vanadis</i>
26	5	67899	<i>Terebellidae</i>
27	5	67310	<i>Poeobius meseres</i>
28	5	65420	<i>Lopadorrhynchidae</i>
29	5	65399	<i>Alciopidae</i>
30	4	65424	<i>Lepadorhynchus</i>
...			

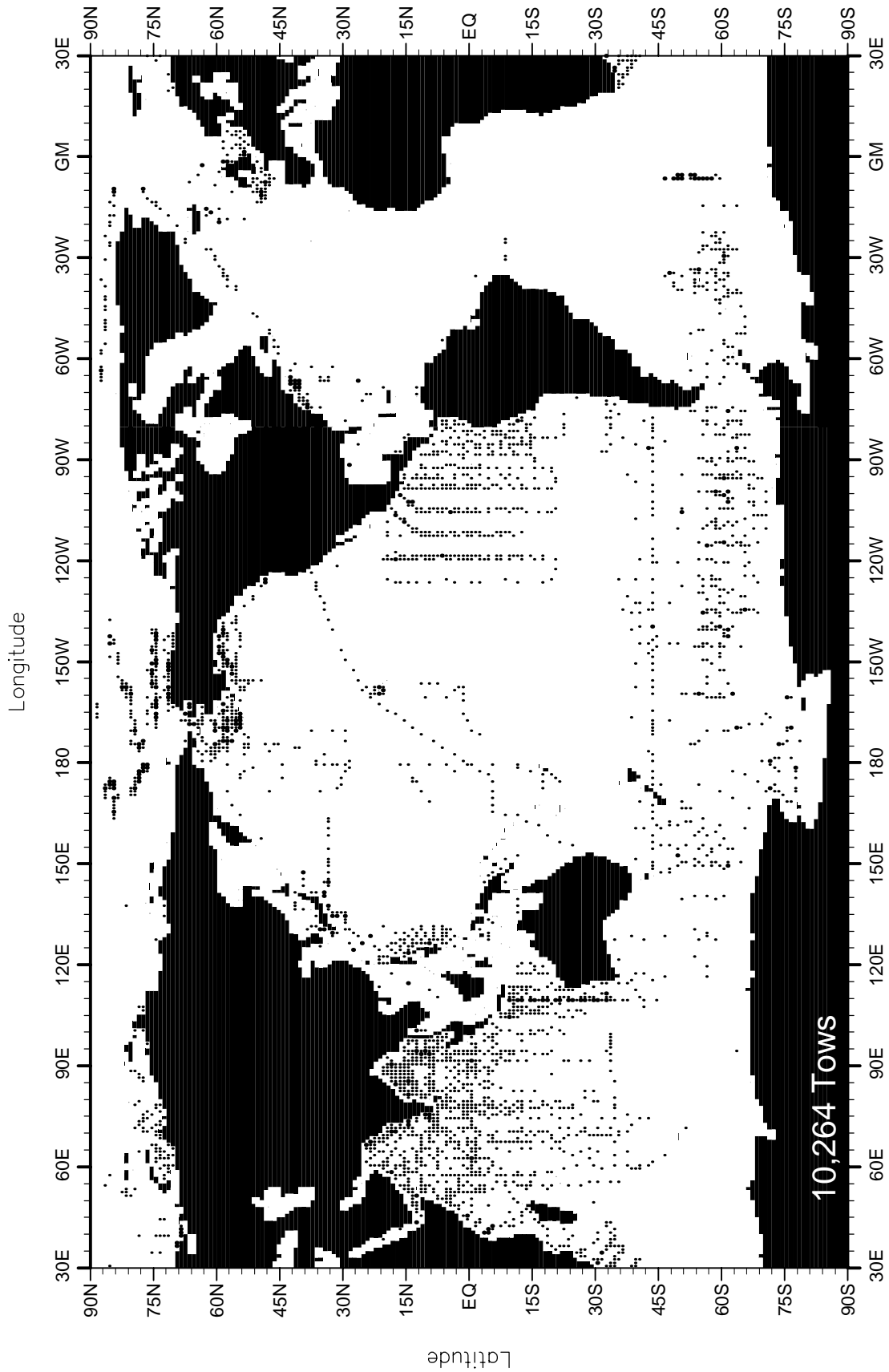


Fig. D6. Annual distribution of all polychaete observations.

Table D7: Taxonomic composition of all Ostracods

Number of Tows: 8,820
 Number of Observations: 11,204
 Number of Taxonomic Descriptions: 24

Top 30 Taxonomic Descriptions

Rank	#_OBS	ITIS-TSN	DESCRIPTION
1	10,158	84195	<i>Ostracoda</i>
2	451	84325	<i>Conchoecia</i>
3	256	84196	<i>Myodocopina</i>
4	102	-7914	<i>Ostracoda-halocypridina</i>
5	89	84331	<i>Conchoecia borealis</i>
6	23	84329	<i>Conchoecia elegans</i>
7	21	84338	<i>Halocypris globosa</i>
8	19	84323	<i>Halocyprididae</i>
9	18	-7359	<i>Conchoecia serrulata</i>
10	16	84332	<i>Conchoecia borealis maxima</i>
11	12	-7833	<i>Conchoecia maxima</i>
12	10	84326	<i>Conchoecia alata</i>
13	5	84327	<i>Conchoecia alata minor</i>
14	5	-7906	<i>Conchoecinae</i>
15	5	-7283	<i>Conchoecia imbricata</i>
16	3	84371	<i>Philomedes brenda</i>
17	2	-7908	<i>Heterorhabdus tenuis</i>
18	2	-7902	<i>Archiconchoecia cucullata</i>
19	2	-7284	<i>Conchoecia ametra</i>
20	1	84662	<i>Cytheridae</i>
21	1	84198	<i>Cypridinidae</i>
22	1	-7905	<i>Conchoecia macroprocera</i>
23	1	-7904	<i>Conchoecia arcuata</i>
24	1	-7903	<i>Bathyconchoecia</i>

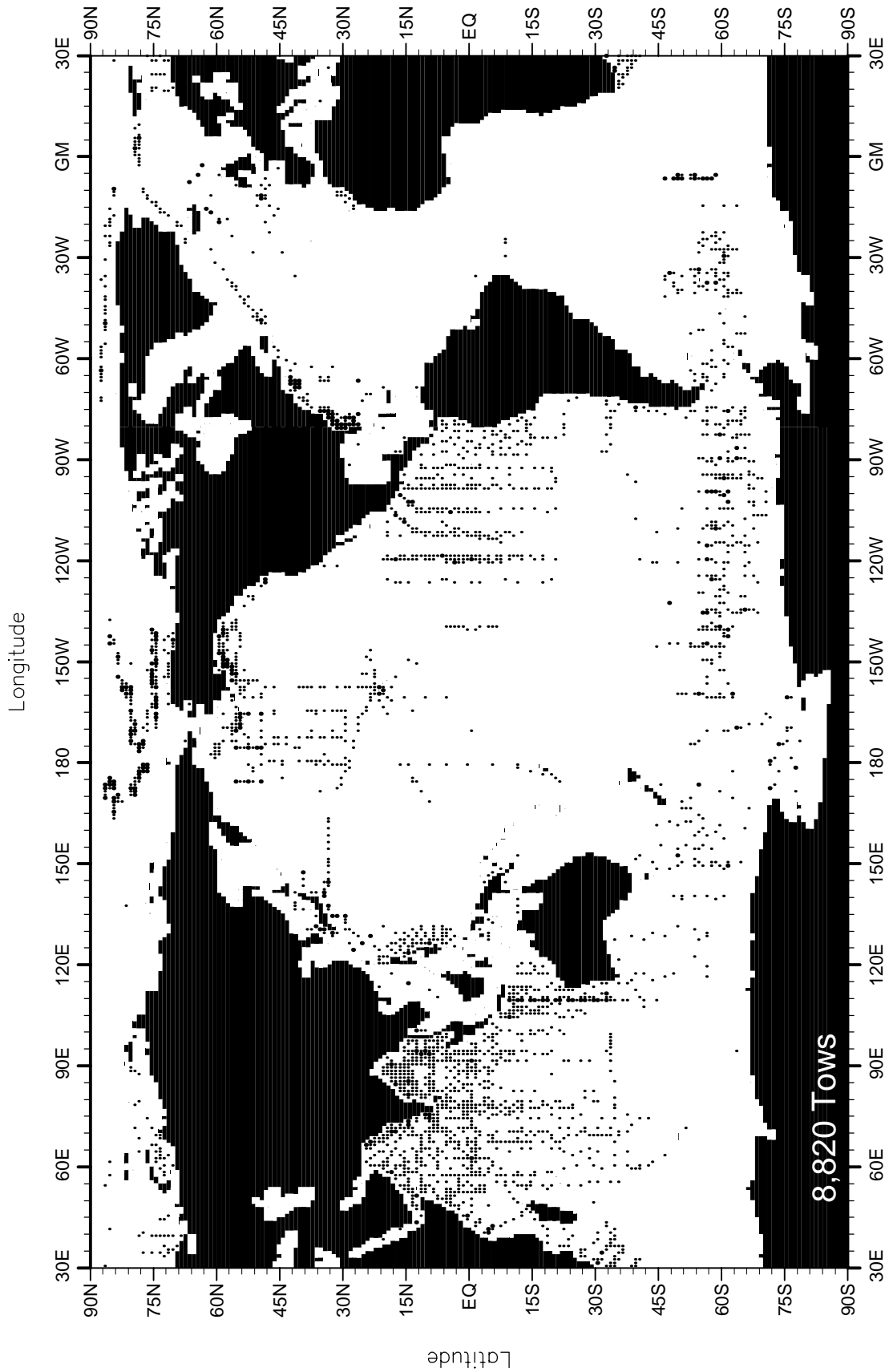


Fig. D7. Annual distribution of all ostracod observations.

Table D8: Taxonomic composition of all Copepods

Number of Tows: 31,961
 Number of Observations: 411,951
 Number of Taxonomic Descriptions: 600

Top 30 Taxonomic Descriptions

Rank	#_OBS	ITIS-TSN	DESCRIPTION
1	58,691	85272	<i>Calanus finmarchicus</i>
2	37,055	85257	<i>Copepoda</i>
3	21,684	85369	<i>Pseudocalanus</i>
4	20,942	88805	<i>Oithona similis</i>
5	17,915	85371	<i>Pseudocalanus minutus</i>
6	16,670	85746	<i>Metridia longa</i>
7	15,514	86087	<i>Acartia longiremis</i>
8	14,828	88802	<i>Oithona</i>
9	13,818	85545	<i>Pareuchaeta norvegica</i>
10	12,008	85877	<i>Temora longicornis</i>
11	11,265	85741	<i>Metridia lucens</i>
12	9,805	85766	<i>Centropages hamatus</i>
13	9,653	85263	<i>Calanus</i>
14	8,650	85370	<i>Pseudocalanus elongatus</i>
15	7,708	85267	<i>Calanus glacialis</i>
16	7,163	88541	<i>Oncaea borealis</i>
17	5,765	85756	<i>Pleuromamma robusta</i>
18	5,612	86084	<i>Acartia</i>
19	5,260	85767	<i>Centropages typicus</i>
20	4,819	86209	<i>Microsetella norvegica</i>
21	3,802	88540	<i>Oncaea</i>
22	3,580	85734	<i>Metridia</i>
23	3,479	85367	<i>Microcalanus pusillus</i>
24	3,364	-6012	<i>Paracalanus + Pseudocalanus</i>
25	3,304	88824	<i>Oithona atlantica</i>
26	3,096	-7938	<i>Ctenocalanus citer</i>
27	2,970	85322	<i>Paracalanus</i>
28	2,670	85276	<i>Calanus helgolandicus</i>
29	2,296	88806	<i>Oithona spirostris</i>
30	2,232	-7940	<i>Oncaea curvata</i>
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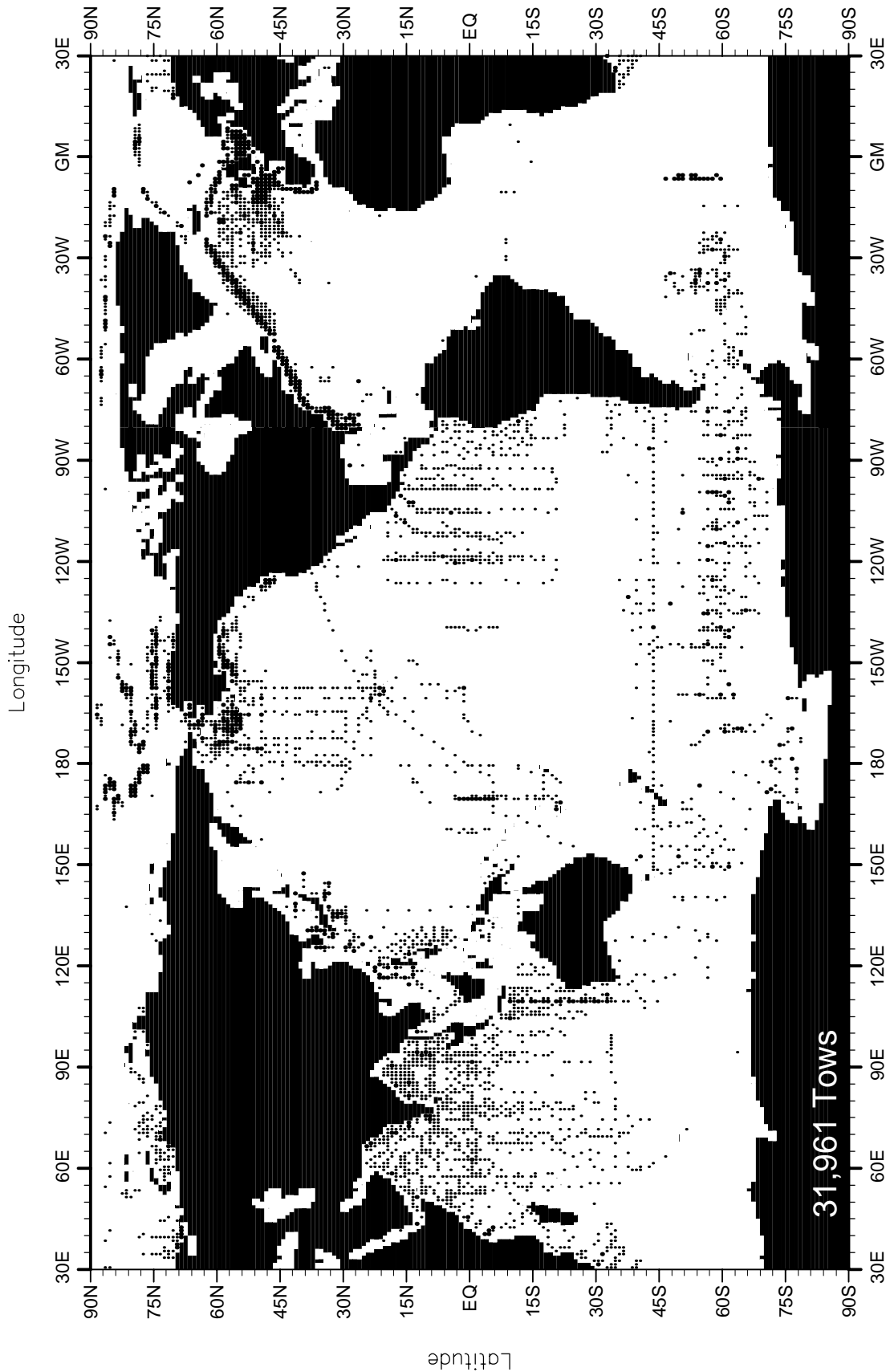


Fig. D8. Annual distribution of all copepod observations.

Table D9: Taxonomic composition of all Mysid

Number of Tows: 4,353
 Number of Observations: 5,163
 Number of Taxonomic Descriptions: 39

Top 30 Taxonomic Descriptions

Rank	#_OBS	ITIS-TSN	DESCRIPTION
1	3,491	89807	<i>Mysidacea</i>
2	582	89856	<i>Mysidae</i>
3	518	89855	<i>Mysida</i>
4	172	90139	<i>Mysidopsis bigelowi</i>
5	56	90041	<i>Mysis</i>
6	50	90061	<i>Neomysis rayii</i>
7	38	90099	<i>Pseudomma truncatum</i>
8	29	90044	<i>Mysis oculata</i>
9	29	90043	<i>Mysis littoralis</i>
10	22	89871	<i>Acanthomysis stelleri</i>
11	21	89867	<i>Acanthomysis pseudomacropsis</i>
12	21	89861	<i>Acanthomysis dybowskii</i>
13	17	89849	<i>Eucopia</i>
14	16	90185	<i>Erythrope erythrope</i>
15	14	331309	<i>Erythrope</i>
16	10	90054	<i>Neomysis</i>
17	9	90138	<i>Mysidopsis</i>
18	9	90045	<i>Mysis relicta</i>
19	7	90029	<i>Meterythrope robusta</i>
20	6	89922	<i>Boreomysis</i>
21	6	89811	<i>Gnathophausia gigas</i>
22	5	89925	<i>Boreomysis kincaidi</i>
23	4	90184	<i>Erythrope</i>
24	4	90079	<i>Parerythrope obesa</i>
25	4	89865	<i>Acanthomysis nephrope</i>
26	4	89857	<i>Acanthomysis</i>
27	3	89808	<i>Lophogastrida</i>
28	2	90202	<i>Promysis atlantica</i>
29	2	90056	<i>Neomysis czerniawskii</i>
30	2	90017	<i>Holmesiella anomala</i>
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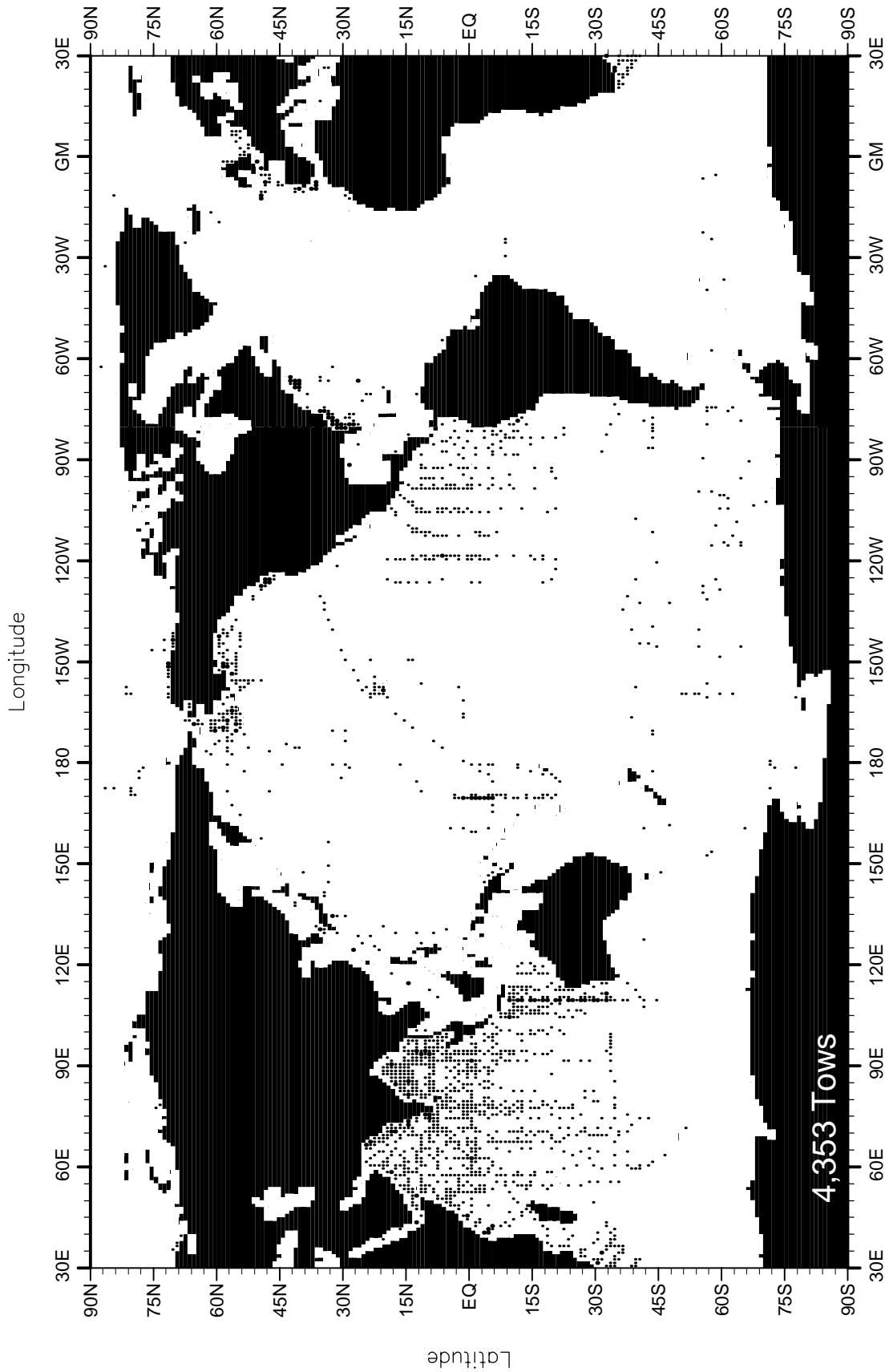


Fig. D9. Annual distribution of all mysid observations.

Table D10: Taxonomic composition of all Amphipods

Number of Tows: 14,900
 Number of Observations: 21,607
 Number of Taxonomic Descriptions: 220

Top 30 Taxonomic Descriptions

Rank	#_OBS	ITIS-TSN	DESCRIPTION
1	13,538	93294	<i>Amphipoda</i>
2	2,200	95107	<i>Hyperidea</i>
3	988	95152	<i>Parathemisto pacifica</i>
4	618	93295	<i>Gammaridea</i>
5	531	95172	<i>Phronimidae</i>
6	447	95148	<i>Parathemisto</i>
7	444	95151	<i>Parathemisto libellula</i>
8	228	95109	<i>Hyperia</i>
9	207	94281	<i>Cyphocaris challengerii</i>
10	139	95188	<i>Primno macropa</i>
11	116	206587	<i>Themisto abyssorum</i>
12	108	94573	<i>Westwoodilla caecula</i>
13	103	95153	<i>Parathemisto japonica</i>
14	86	95187	<i>Primno</i>
15	80	95154	<i>Parathemisto abyssorum</i>
16	78	95167	<i>Themisto</i>
17	77	-7580	<i>Hypereidae</i>
18	72	94280	<i>Cyphocaris</i>
19	67	95112	<i>Hyperia medusarum</i>
20	67	95110	<i>Hyperia galba</i>
21	66	94903	<i>Stenothoidae</i>
22	61	95108	<i>Hyperiidae</i>
23	54	94694	<i>Paraphoxus alderi</i>
24	40	95135	<i>Hyperoche medusarum</i>
25	40	93538	<i>Apherusa glacialis</i>
26	34	95355	<i>Vibilia</i>
27	33	95262	<i>Platyscelidae</i>
28	32	95302	<i>Scinidae</i>
29	27	95303	<i>Scina</i>
30	27	94489	<i>Oedicerotidae</i>
...			

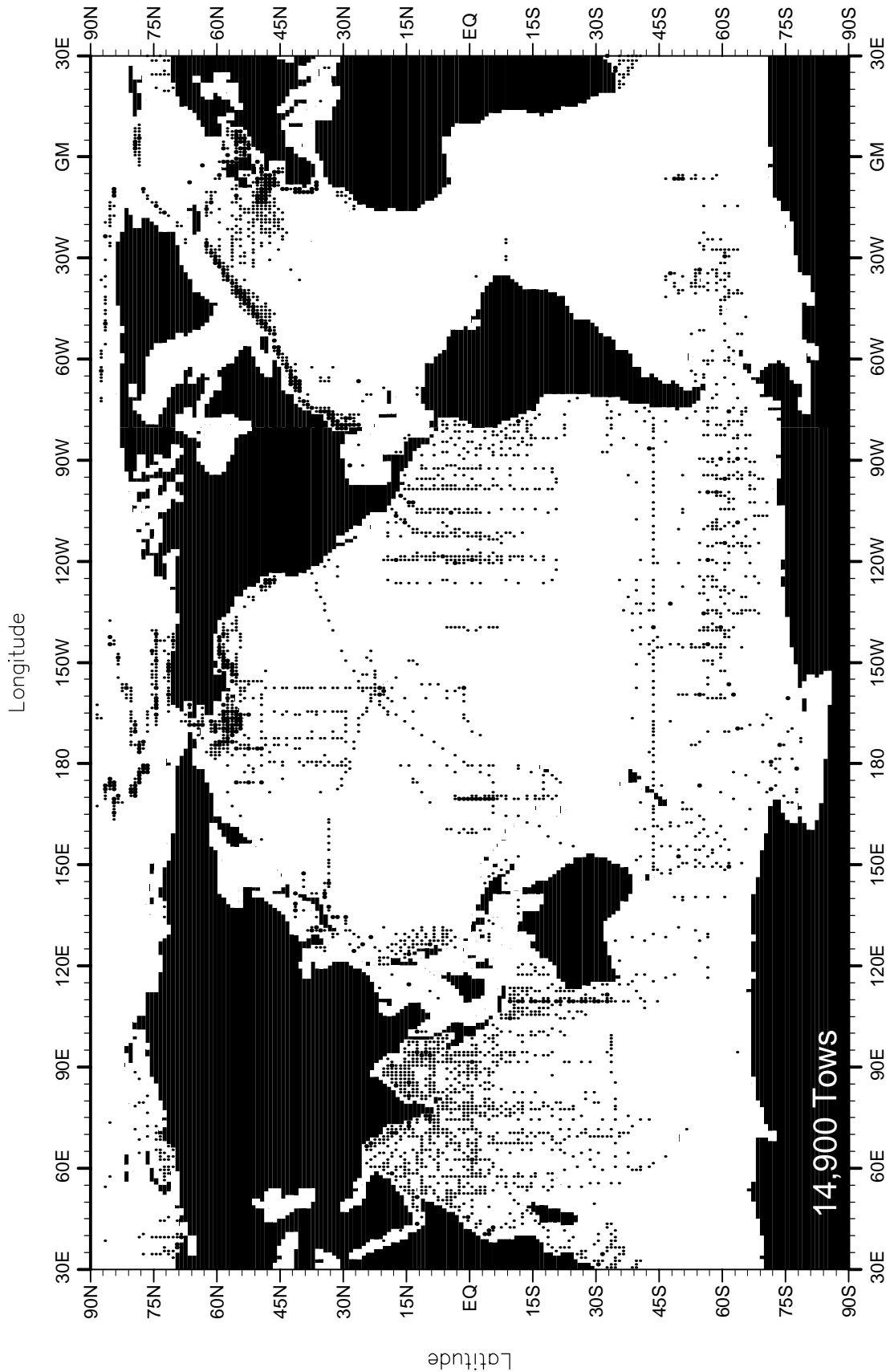


Fig. D10. Annual distribution of all amphipod observations.

Table D11: Taxonomic composition of all Euphausiids

Number of Tows: 16,522
 Number of Observations: 29,451
 Number of Taxonomic Descriptions: 33

Top 30 Taxonomic Descriptions

Rank	# OBS	ITIS-TSN	DESCRIPTION
1	16,710	95496	<i>Euphausiacea</i>
2	2,850	95571	<i>Thysanoessa</i>
3	2,804	95500	<i>Euphausiidae</i>
4	1,709	95573	<i>Thysanoessa inermis</i>
5	1,000	95577	<i>Thysanoessa raschi</i>
6	808	95578	<i>Thysanoessa spinifera</i>
7	789	95502	<i>Euphausia pacifica</i>
8	789	95501	<i>Euphausia</i>
9	676	95576	<i>Thysanoessa longipes</i>
10	274	95570	<i>Tessarabrachion oculatum</i>
11	241	95575	<i>Thysanoessa longicaudata</i>
12	139	95540	<i>Nematoscelis difficilis</i>
13	139	95536	<i>Nematobrachion flexipes</i>
14	135	95574	<i>Thysanoessa inspinata</i>
15	104	95558	<i>Stylocheiron maximum</i>
16	59	95520	<i>Euphausia crystallorophias</i>
17	47	95539	<i>Nematoscelis</i>
18	43	95556	<i>Stylocheiron</i>
19	43	95534	<i>Meganyctiphanes norvegica</i>
20	21	95533	<i>Meganyctiphanes</i>
21	9	95561	<i>Stylocheiron abbreviatum</i>
22	8	95507	<i>Euphausia tenera</i>
23	7	95505	<i>Euphausia hemigibba</i>
24	5	95521	<i>Euphausia similis</i>
25	5	95513	<i>Euphausia recurva</i>
26	5	95506	<i>Euphausia krohni</i>
27	4	95582	<i>Thysanopoda</i>
28	4	95579	<i>Thysanoessa parva</i>
29	2	95512	<i>Euphausia diomedeeae</i>
30	2	95509	<i>Euphausia mutica</i>
...			

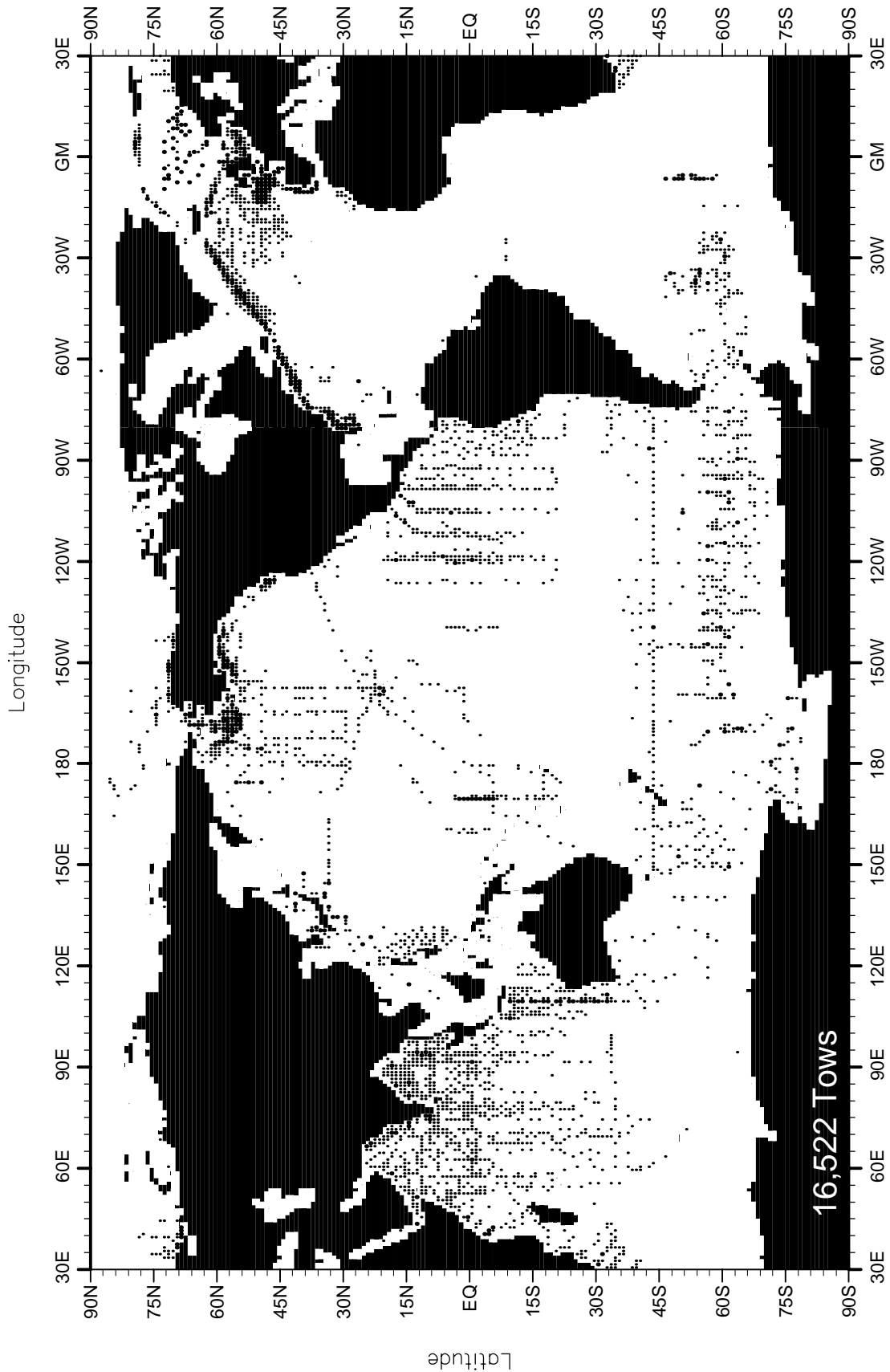


Fig. D11. Annual distribution of all euphausiid observations.

Table D12: Taxonomic composition of all Decapods

Number of Tows: 14,343
 Number of Observations: 47,595
 Number of Taxonomic Descriptions: 153

Top 30 Taxonomic Descriptions

Rank	# OBS	ITIS-TSN	DESCRIPTION
1	14,059	95599	<i>Decapoda</i>
2	3,390	98276	<i>Brachyura (true crabs)</i>
3	2,847	95887	<i>Sergestidae</i>
4	2,744	97646	<i>Palinuridae</i>
5	2,626	97698	<i>Anomura (hermit crabs)</i>
6	2,152	97774	<i>Paguridae</i>
7	2,136	96746	<i>Hippolytidae</i>
8	1,601	-5007	"Shrimp"
9	1,321	-5008	"Crabs"
10	1,068	96106	<i>Caridea</i>
11	1,064	98417	<i>Majidae</i>
12	893	96967	<i>Pandalus borealis</i>
13	869	98671	<i>Cancer</i>
14	775	98429	<i>Chionoecetes bairdi</i>
15	754	97106	<i>Crangonidae</i>
16	600	98428	<i>Chionoecetes opilio</i>
17	550	98427	<i>Chionoecetes</i>
18	533	331542	<i>Luciferidae</i>
19	423	97775	<i>Pagurus</i>
20	409	95601	<i>Penaeoidea</i>
21	386	98421	<i>Hyas</i>
22	359	95915	<i>Lucifer</i>
23	357	97935	<i>Paralithodes camtschaticus</i>
24	329	96976	<i>Pandalus montagui tridens</i>
25	316	95602	<i>Penaeidae</i>
26	293	95916	<i>Lucifer faxoni</i>
27	263	96968	<i>Pandalus goniurus</i>
28	256	98964	<i>Pinnotheridae</i>
29	226	96984	<i>Pandalus stenolepis</i>
30	224	98670	<i>Cancriidae</i>
...			

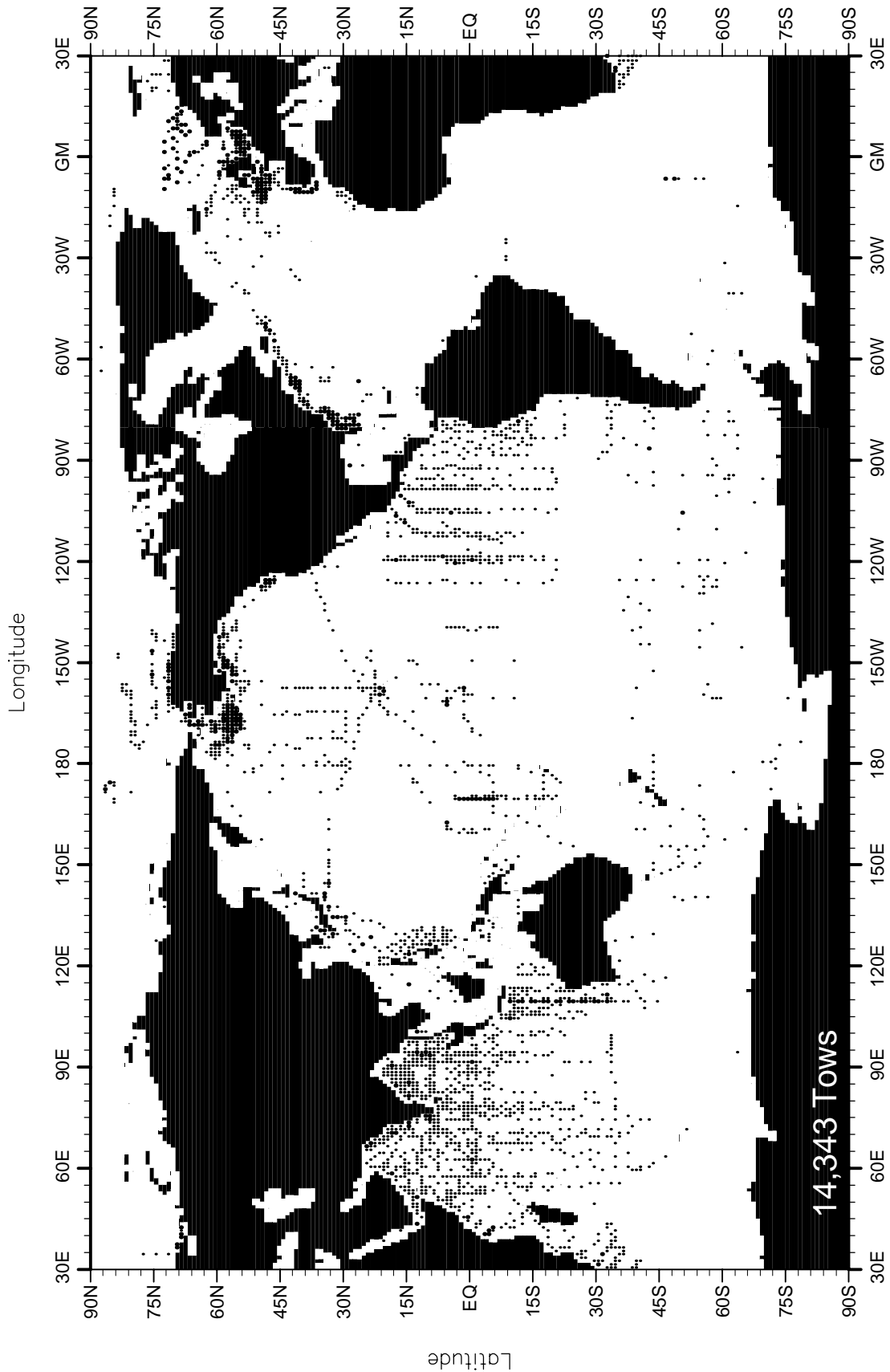


Fig. D12. Annual distribution of all decapod observations.

Table D13: Taxonomic composition of all Chaetognaths

Number of Tows: 23,740
 Number of Observations: 74,014
 Number of taxonomic Descriptions: 42

Top 30 Taxonomic Descriptions

Rank	# OBS	ITIS-TSN	DESCRIPTION
1	22,108	158650	<i>Chaetognatha</i>
2	5,150	158784	<i>Parasagitta elegans</i>
3	4,635	158727	<i>Sagitta</i>
4	2,613	158776	<i>Mesosagattia minima</i>
5	2,608	158773	<i>Flaccisagitta enflata</i>
6	2,486	158835	<i>Zonosagitta nagae</i>
7	2,357	158749	<i>Aidanosagitta regularis</i>
8	2,311	158813	<i>Serratosagitta pacifica</i>
9	2,180	158815	<i>Serratosagitta pseudoserratodentata</i>
10	2,056	158841	<i>Pterosagitta draco</i>
11	1,878	158733	<i>Aidanosagitta neglecta</i>
12	1,874	158770	<i>Flaccisagitta hexaptera</i>
13	1,855	158850	<i>Krohnitta pacifica</i>
14	1,855	158761	<i>Ferosagitta ferox</i>
15	1,805	158800	<i>Pseudosagitta lyra</i>
16	1,805	158758	<i>Ferosagitta robusta</i>
17	1,745	158849	<i>Krohnitta subtilis</i>
18	1,668	158691	<i>Eukrohnia hamata</i>
19	1,652	158828	<i>Zonosagitta bedoti</i>
20	1,508	158728	<i>Sagitta bipunctata</i>
21	1,416	158779	<i>Mesosagattia decipiens</i>
22	1,099	158838	<i>Sagitta pulchra (syn)</i>
23	1,052	158655	<i>Sagittoidea</i>
24	1,002	331693	<i>Aidanosagitta crassa naikaiensis</i>
25	855	158781	<i>Mesosagattia neodecipiens</i>
26	638	158738	<i>Aidanosagitta crassa</i>
27	572	158806	<i>Pseudosagitta scrippsae</i>
28	528	158823	<i>Solidosagatta zetesios</i>
29	214	158690	<i>Eukrohnia</i>
30	196	-7598	<i>Sagitta elegans arctica</i>
...			

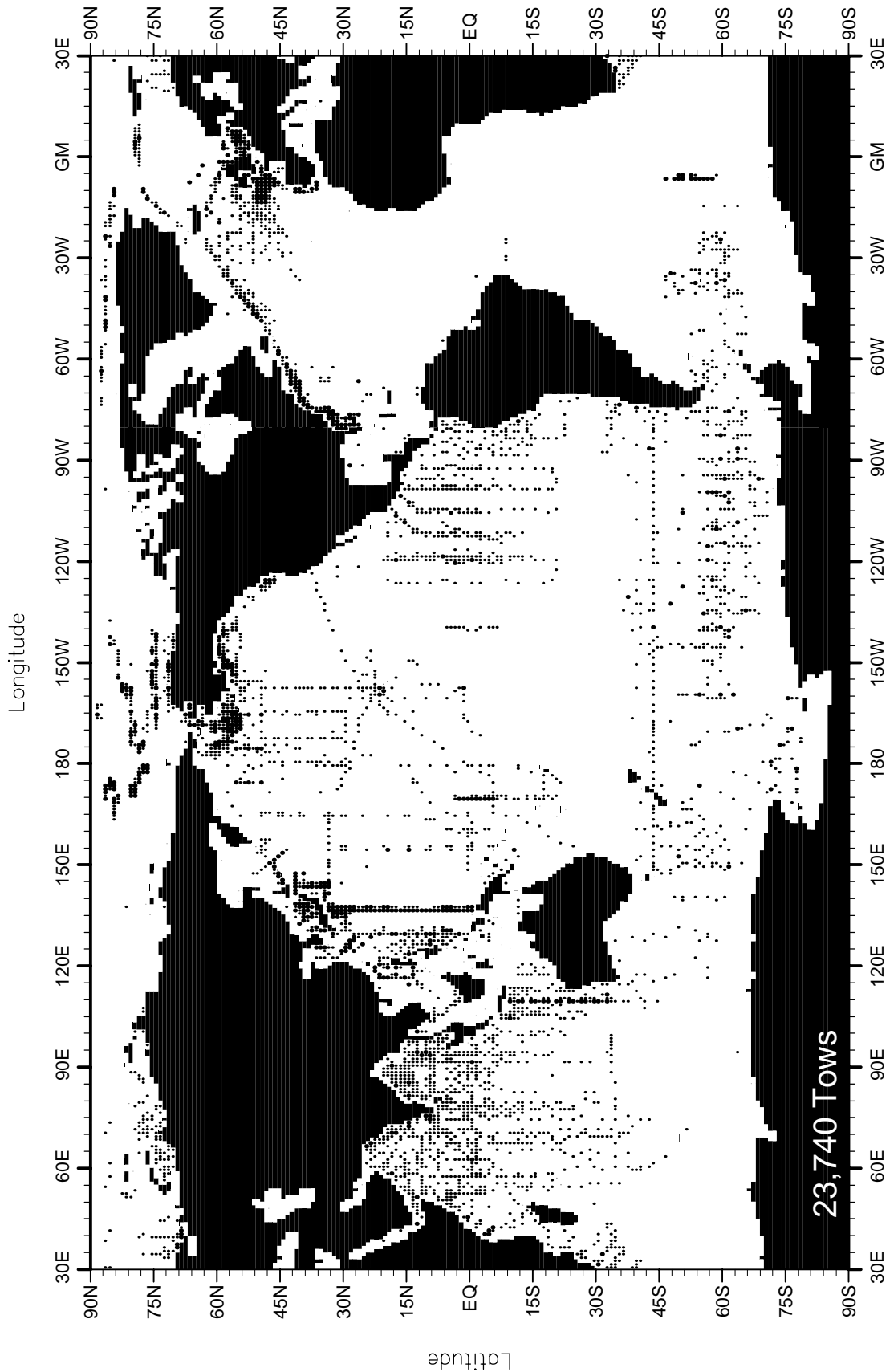


Fig. D13. Annual distribution of all chaetognath observations.

Table D14: Taxonomic composition of all Tunicates

Number of Tows: 17.629
 Number of Observations: 43,082
 Number of Taxonomic Descriptions: 48

Top 30 Taxonomic Descriptions

Rank	#_OBS	ITIS-TSN	DESCRIPTION
1	10,011	159664	<i>Appendicularia</i> (aka "larvacea")
2	5,118	203347	<i>Tunicata</i>
3	3,144	159675	<i>Fritillaria borealis</i>
4	2,785	159668	<i>Oikopleura</i>
5	2,405	-6000	<i>Salps + Doliolids</i>
6	2,389	159634	<i>Pyrosomidae</i>
7	2,376	159174	<i>Ascidia</i>
8	2,343	159681	<i>Branchiostoma</i>
9	2,185	159632	<i>Thaliacea</i>
10	1,941	159666	<i>Copelata</i>
11	1,622	159674	<i>Fritillaria</i>
12	1,339	159638	<i>Doliolidae</i>
13	1,329	159671	<i>Oikopleura vanhoeffeni</i>
14	1,222	159645	<i>Salpidae</i>
15	512	159670	<i>Oikopleura labradoriensis</i>
16	496	159679	<i>Cephalochordata</i> (aka "leptocardia")
17	469	159635	<i>Pyrosoma</i>
18	369	159669	<i>Oikopleura dioica</i>
19	224	159643	<i>Salpida</i>
20	210	159639	<i>Doliolum</i>
21	86	158854	<i>Ascidiacea</i>
22	83	159673	<i>Fritillaridae</i>
23	75	159637	<i>Doliolida</i>
24	59	-7337	<i>Thalia democratica v.orientalis</i>
25	51	159633	<i>Pyrosomida</i>
26	45	159652	<i>Salpa</i>
27	34	159653	<i>Salpa fusiformis</i>
28	33	159659	<i>Thalia democratica</i>
29	31	159667	<i>Oikopleuridae</i>
30	19	159642	<i>Doliolum denticulatum</i>
...			

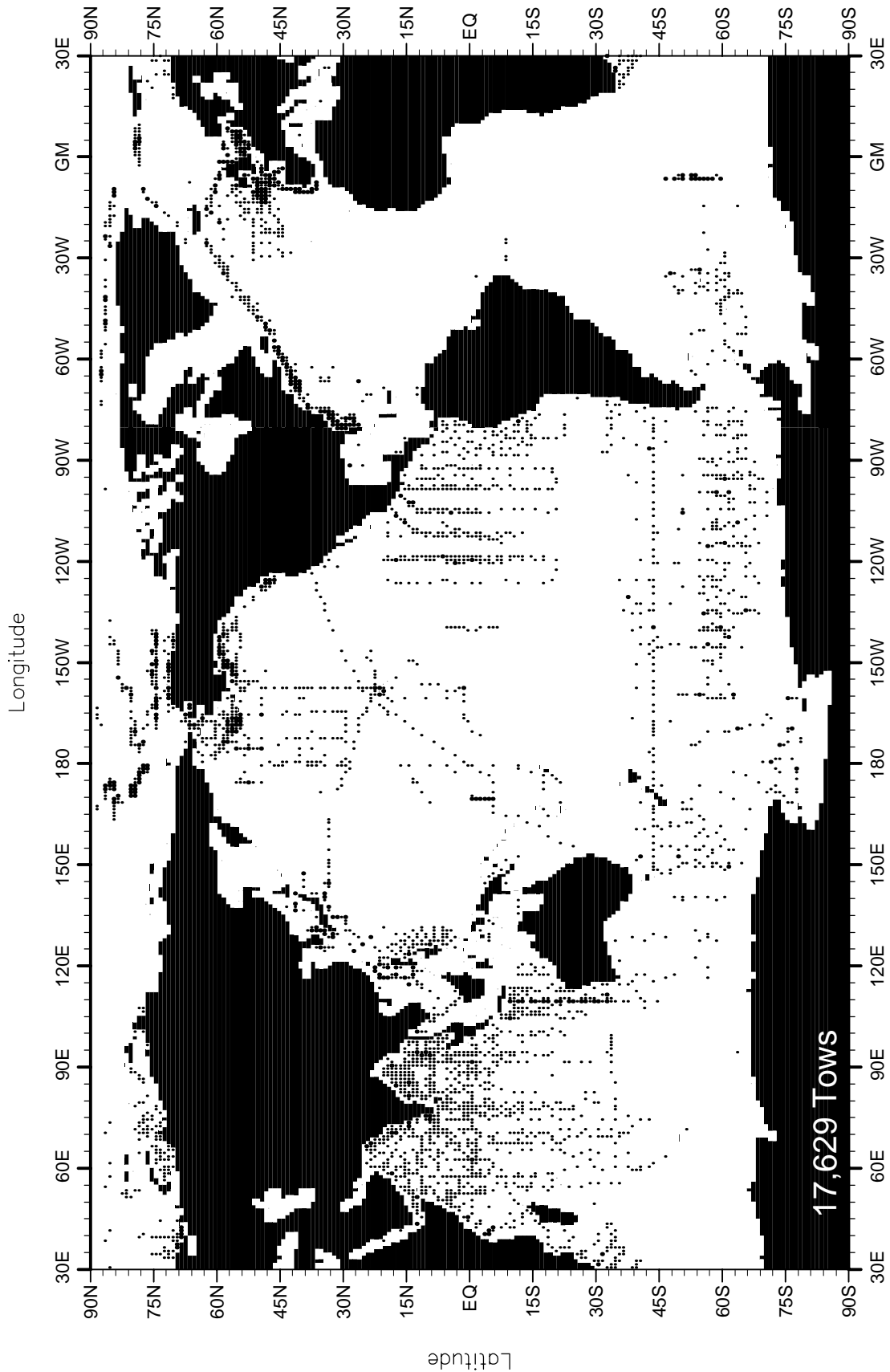


Fig. D14. Annual distribution of all tunicate observations.

Table D15: Taxonomic composition of all Larval Fish

Number of Tows: 49,468
 Number of Observations: 126,523
 Number of Taxonomic Descriptions: **539**

Top 30 Taxonomic Descriptions

Rank	#_OBS	ITIS-TSN	DESCRIPTION
1	87,742	-5004	"Fish"
2	1,962	161105	<i>Teleostei</i>
3	1,069	172859	<i>Pleuronectidae</i>
4	1,009	167196	<i>Cottidae</i>
5	981	164722	<i>Theragra chalcogramma</i>
6	857	171672	<i>Ammodytes hexapterus</i>
7	842	162028	<i>Osmeridae</i>
8	727	167109	<i>Hexagrammos</i>
9	676	172875	<i>Hippoglossoides elassodon</i>
10	670	162035	<i>Mallotus villosus</i>
11	661	167276	<i>Hemilepidotus</i>
12	611	171746	<i>Gobiidae</i>
13	606	161731	<i>Brevoortia</i>
14	564	170945	<i>Bathymasteridae</i>
15	562	167483	<i>Cyclopteridae</i>
16	533	161826	<i>Engraulidae</i>
17	481	161700	<i>Clupeidae</i>
18	462	159783	<i>Gnathostomata</i>
19	442	172916	<i>Pleuronectes bilineata</i>
20	442	161839	<i>Anchoa mitchelli</i>
21	436	172928	<i>Psettichthys melanostictus</i>
22	417	172714	<i>Bothidae</i>
23	410	173061	<i>Symphurus</i>
24	399	164701	<i>Gadidae</i>
25	359	167311	<i>Myoxocephalus</i>
26	357	162664	<i>Stenobrachius leucopsarus</i>
27	353	167113	<i>Hexagrammos stelleri</i>
28	345	166705	<i>Sebastes</i>
29	340	169241	<i>Cynoscion regalis</i>
30	337	169237	<i>Sciaenidae</i>
...			

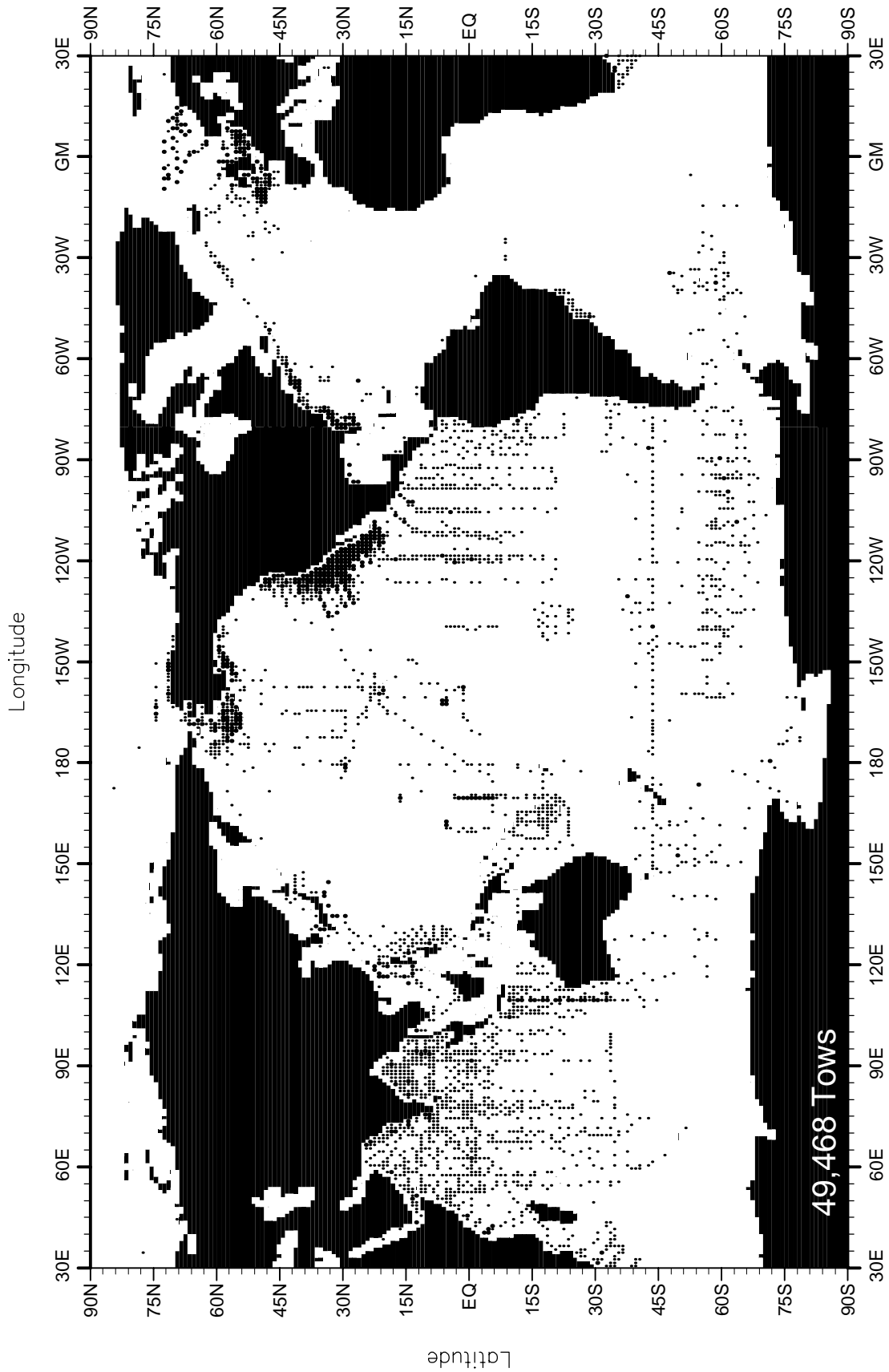


Fig. D15. Annual distribution of all larval fish observations.

Table E1: Composition of all plankton biomass

Number of Tows: 98,612
Number of Observations: 123,070

Rank	#_OBS	ITIS-TSN	DESCRIPTION
1	71,713	-201	<i>Total Displacement Volume (ml)</i>
2	10,700	-202	<i>Total Settled Volume (ml)</i>
3	38,863	-203	<i>Total Wet Mass (mg)</i>
4	1,534	-204	<i>Total Dry Mass (mg)</i>
5	260	-205	<i>Total Ash-free Dry Mass (mg)</i>

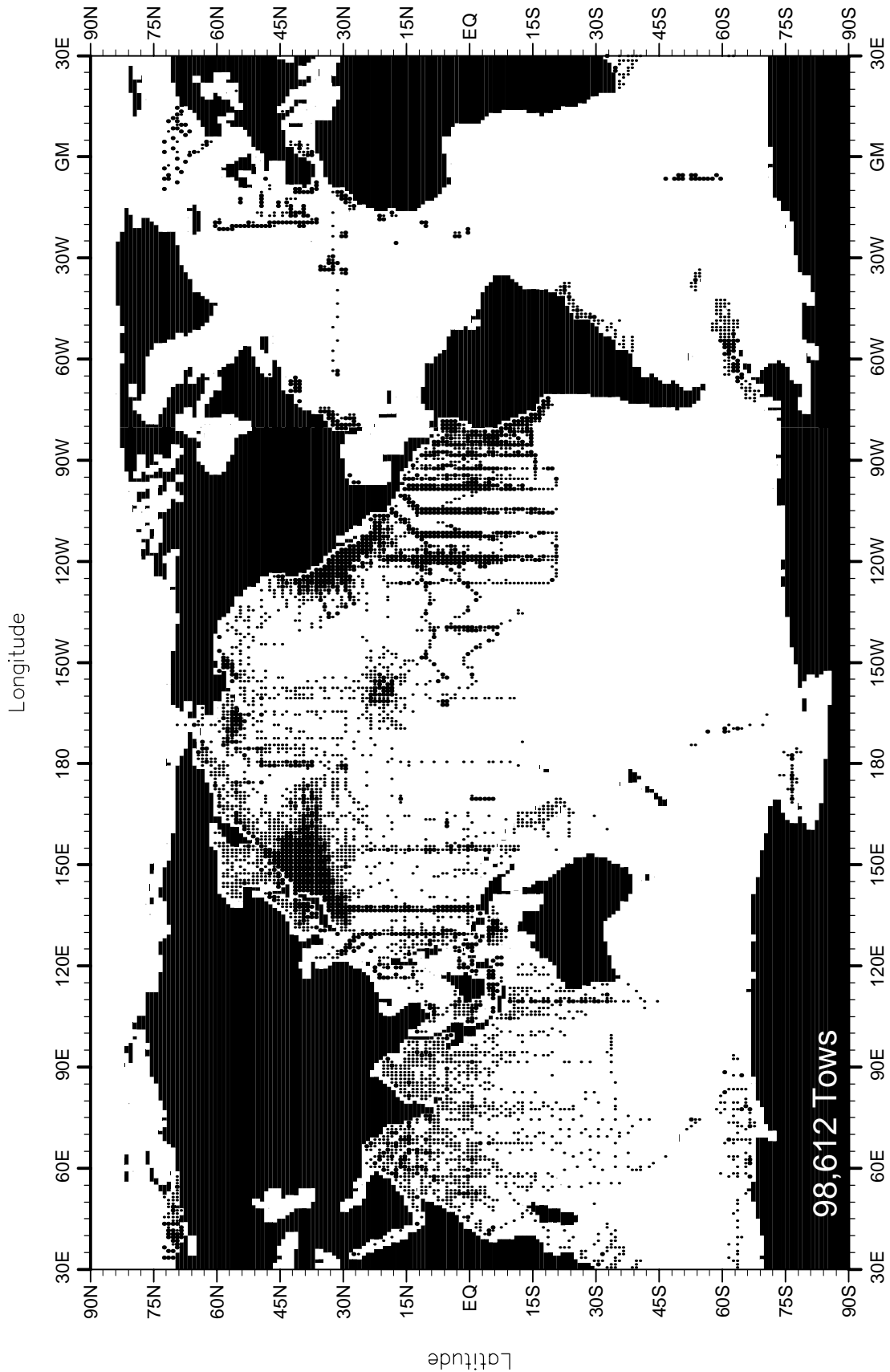


Fig. E1. Annual distribution of all plankton biomass observations.

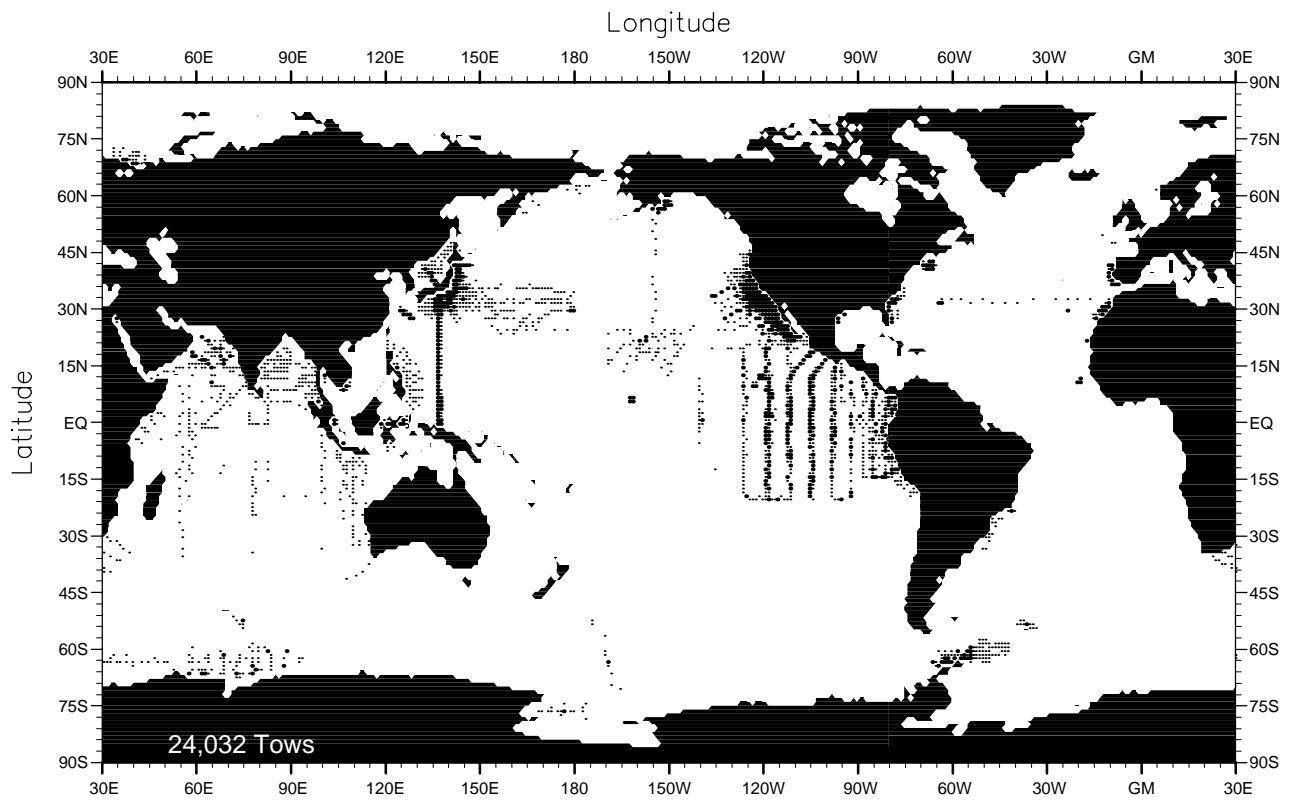


Fig. E1.1 Winter (Jan.-Mar.) distribution of all plankton biomass observations.

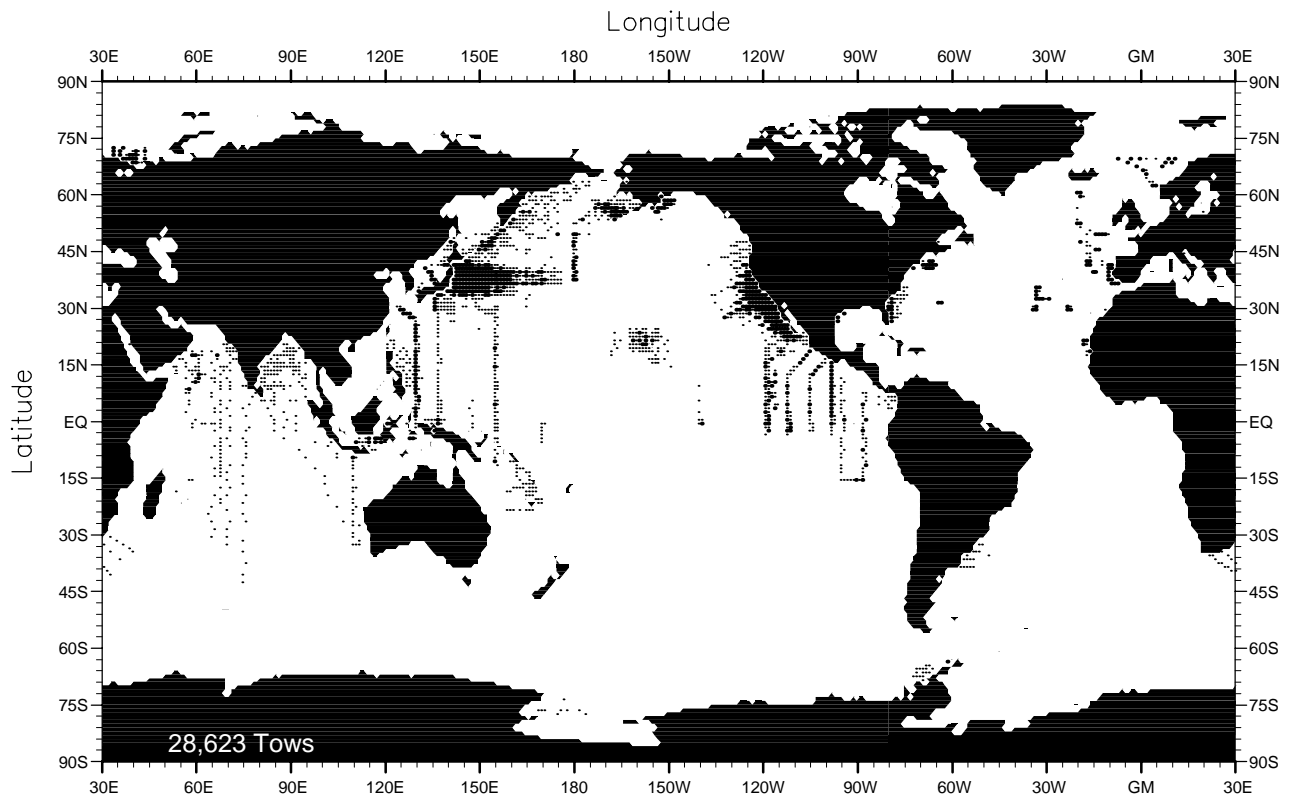


Fig. E1.2 Spring (Apr.-Jun.) distribution of all plankton biomass observations.

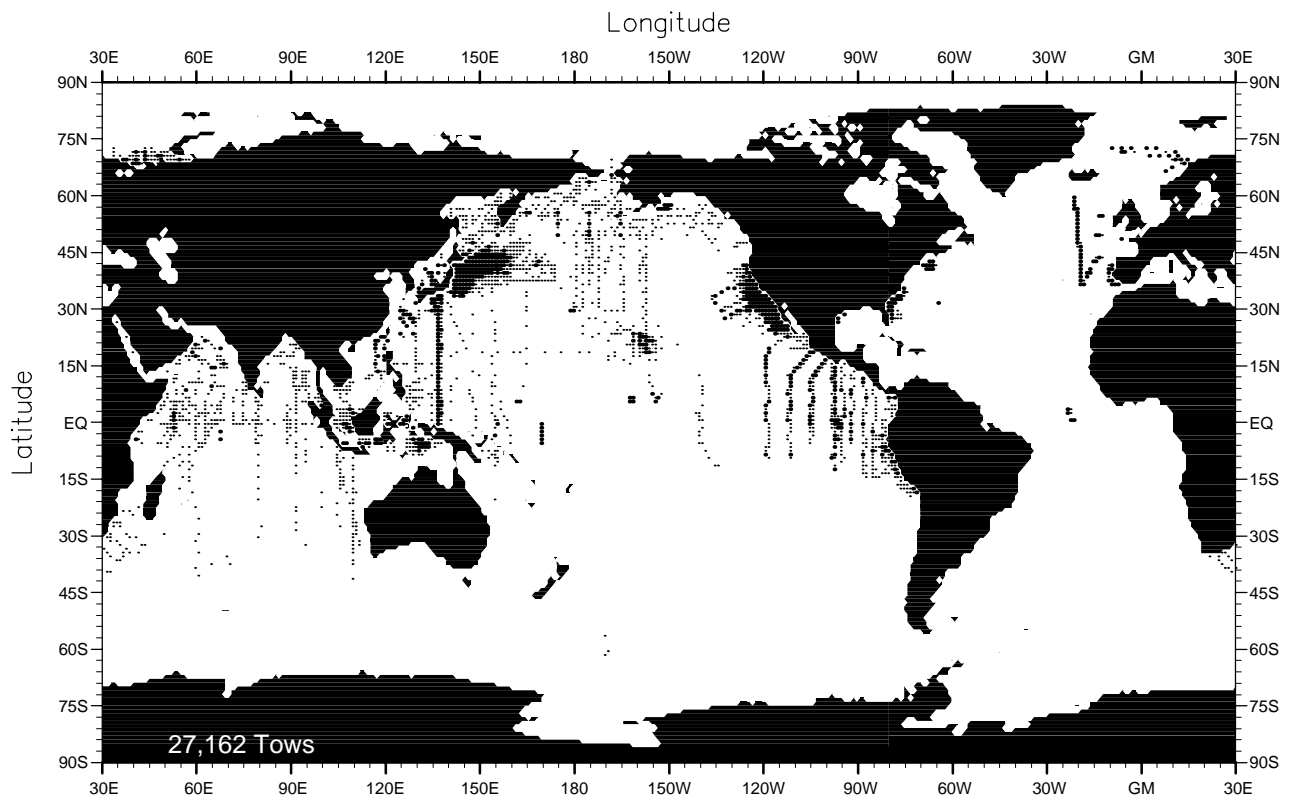


Fig. E1.3 Summer (Jul.-Sep.) distribution of all plankton biomass observations.

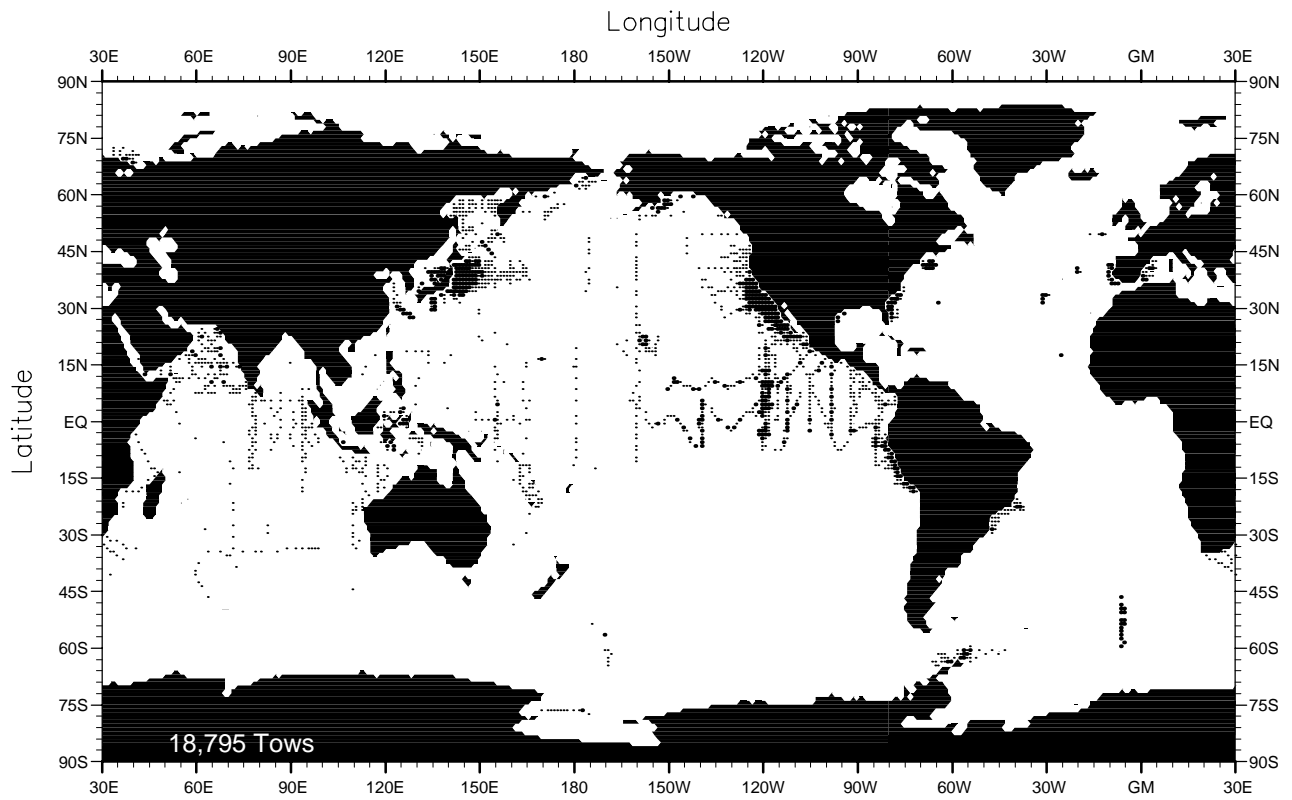


Fig. E1.4 Fall (Oct.-Dec.) distribution of all plankton biomass observations.

APPENDIX F

In each unanalyzed mean field figure in Appendix F, the size of the graphical circle represents the annual mean value for that one-degree latitude-longitude square.

APPENDIX F

In each unanalyzed mean field figure in Appendix F, the size of the graphical circle represents the annual mean value for that one-degree latitude-longitude square.

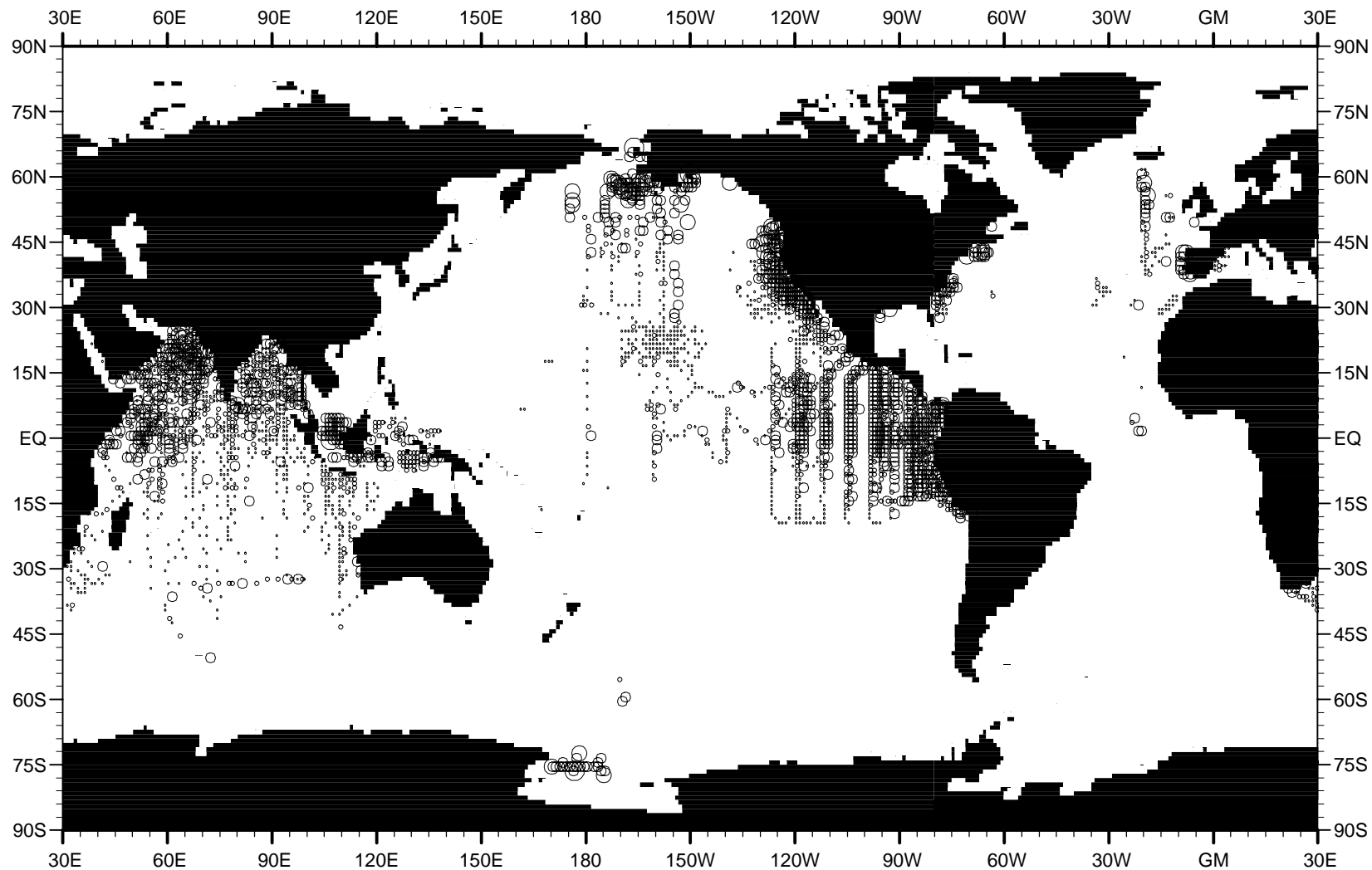


Fig. F1. Annual mean zooplankton displacement volume (ml/m³)

[Sampling depth interval: 0 - 200 meters; Sampling Mesh: 150 - 500 μ m]

$\leq 0.05 = \cdot$ $0.05 - 0.10 = \circ$ $0.10 - 0.50 = \bigcirc$ $0.50 - 1.00 = \bigcirc$ $1.00 - 2.50 = \bigcirc$ $> 2.50 = \bigcirc$

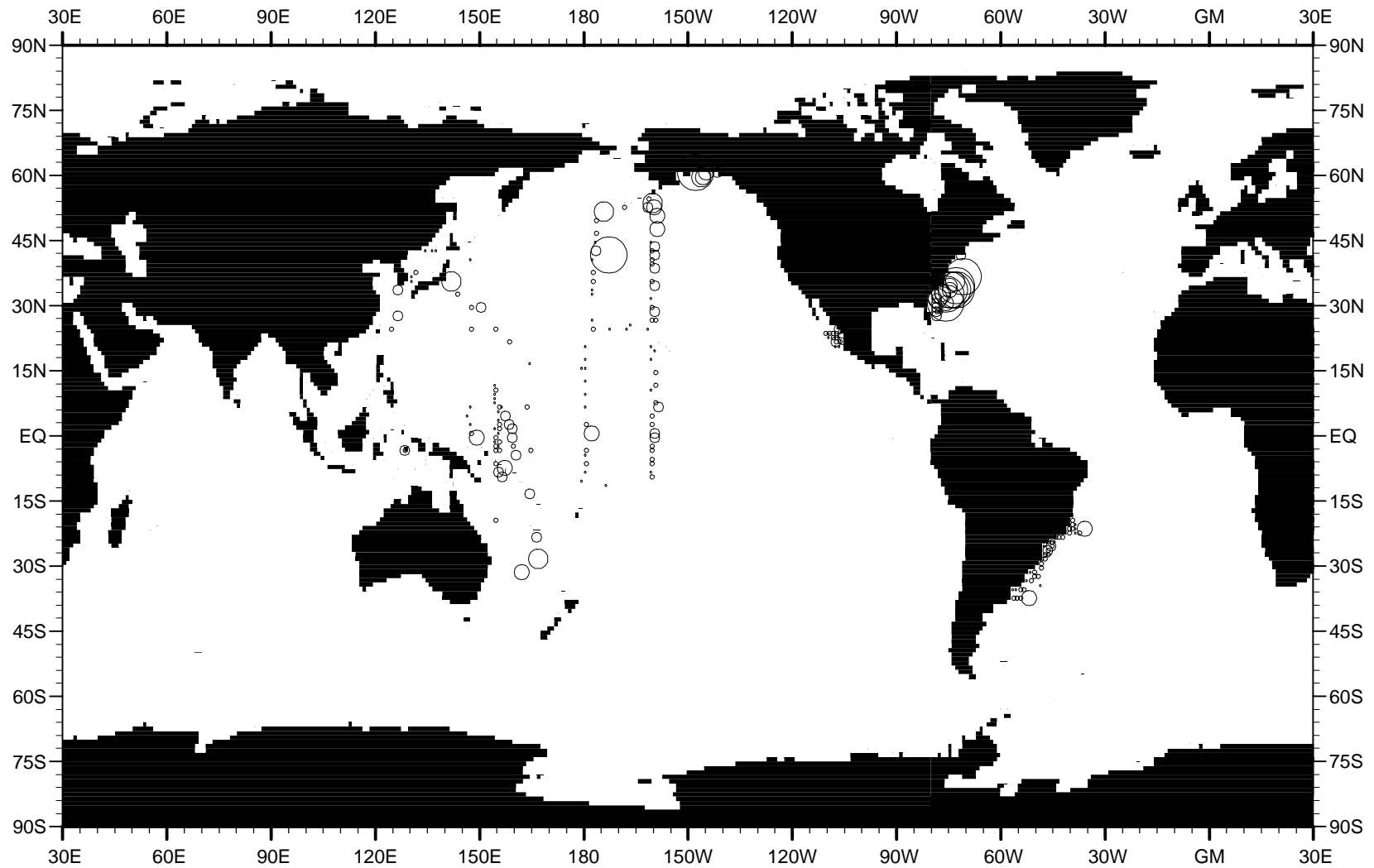


Fig. F2. Annual mean zooplankton settled volume (ml/m³)

[Sampling depth interval: 0 - 200 meters; Sampling Mesh: 150 - 500 μ m]

<= 0.25= •

0.25 - 0.50= ◦

0.50 - 1.00= ○

1.00 - 1.50= ○

1.50 - 2.00= ○

> 2.00= ○

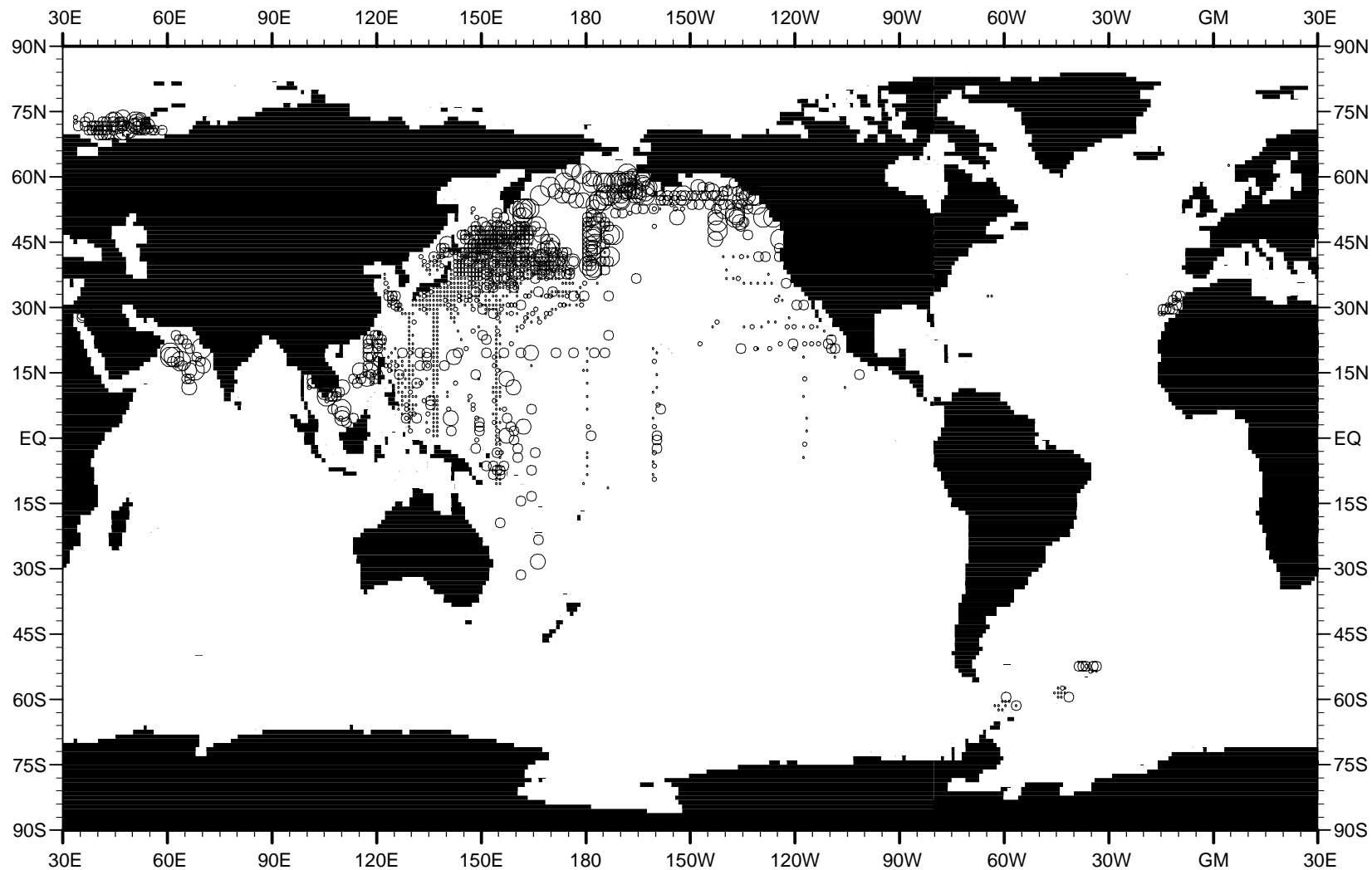


Fig. F3. Annual mean zooplankton wet mass (g/m³)

[Sampling depth interval: 0 - 200 meters; Sampling Mesh: 150 - 500 μm]

≤ 0.05 = • 0.05 - 0.10 = ◦ 0.10 - 0.50 = ○ 0.50 - 1.00 = ○ 1.00 - 5.00 = ○ > 5.00 = ○

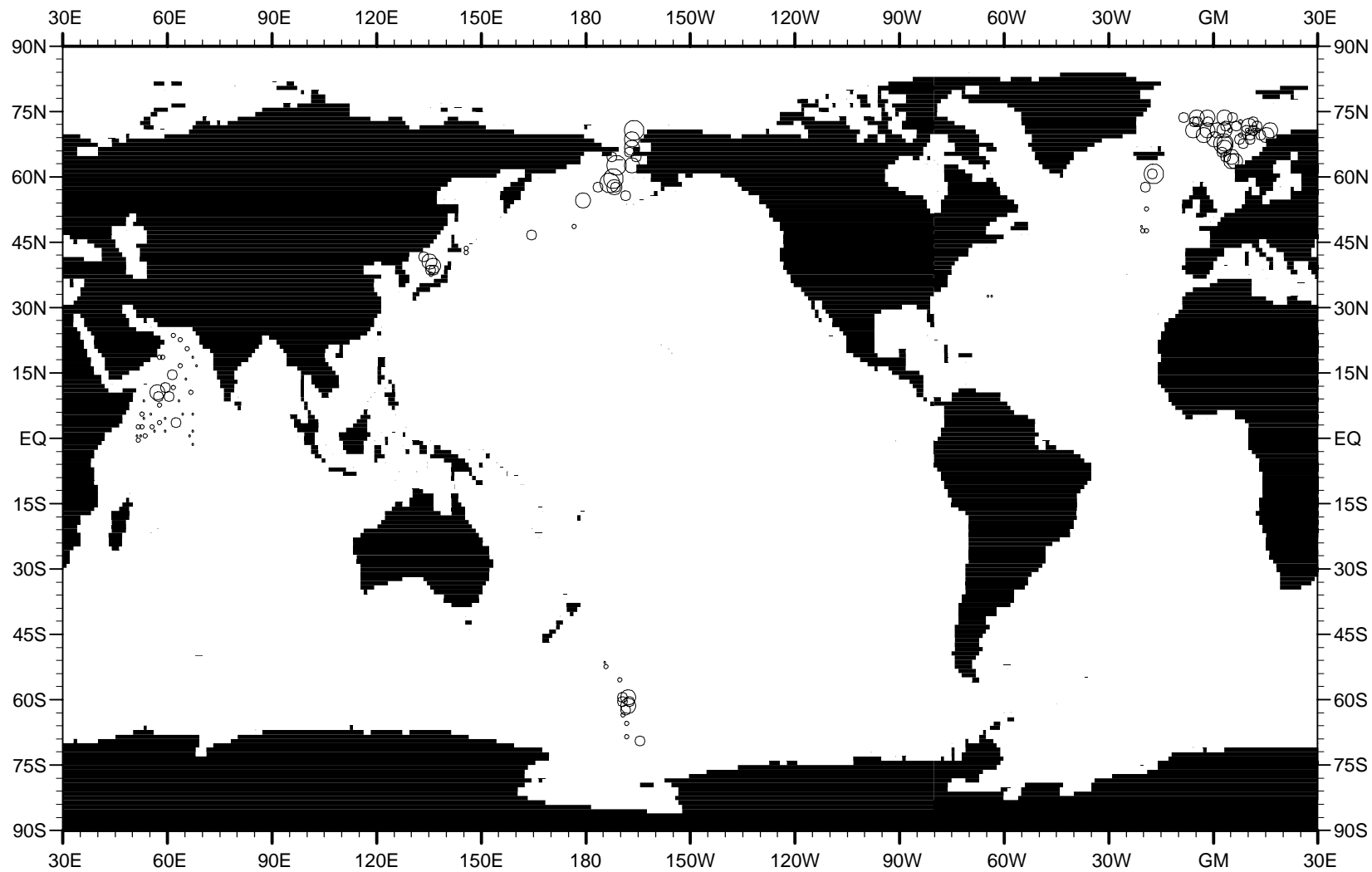


Fig. F4. Annual mean zooplankton dry mass (mg/m³)

[Sampling depth interval: 0 - 200 meters; Sampling Mesh: 150 - 500 μ m]

$\leq 10.00 = \circ$ $10.00 - 25.00 = \circ$ $25.00 - 50.00 = \circ$ $50.00 - 100.00 = \circ$ $100.00 - 250.00 = \circ$ $> 250.00 = \circ$

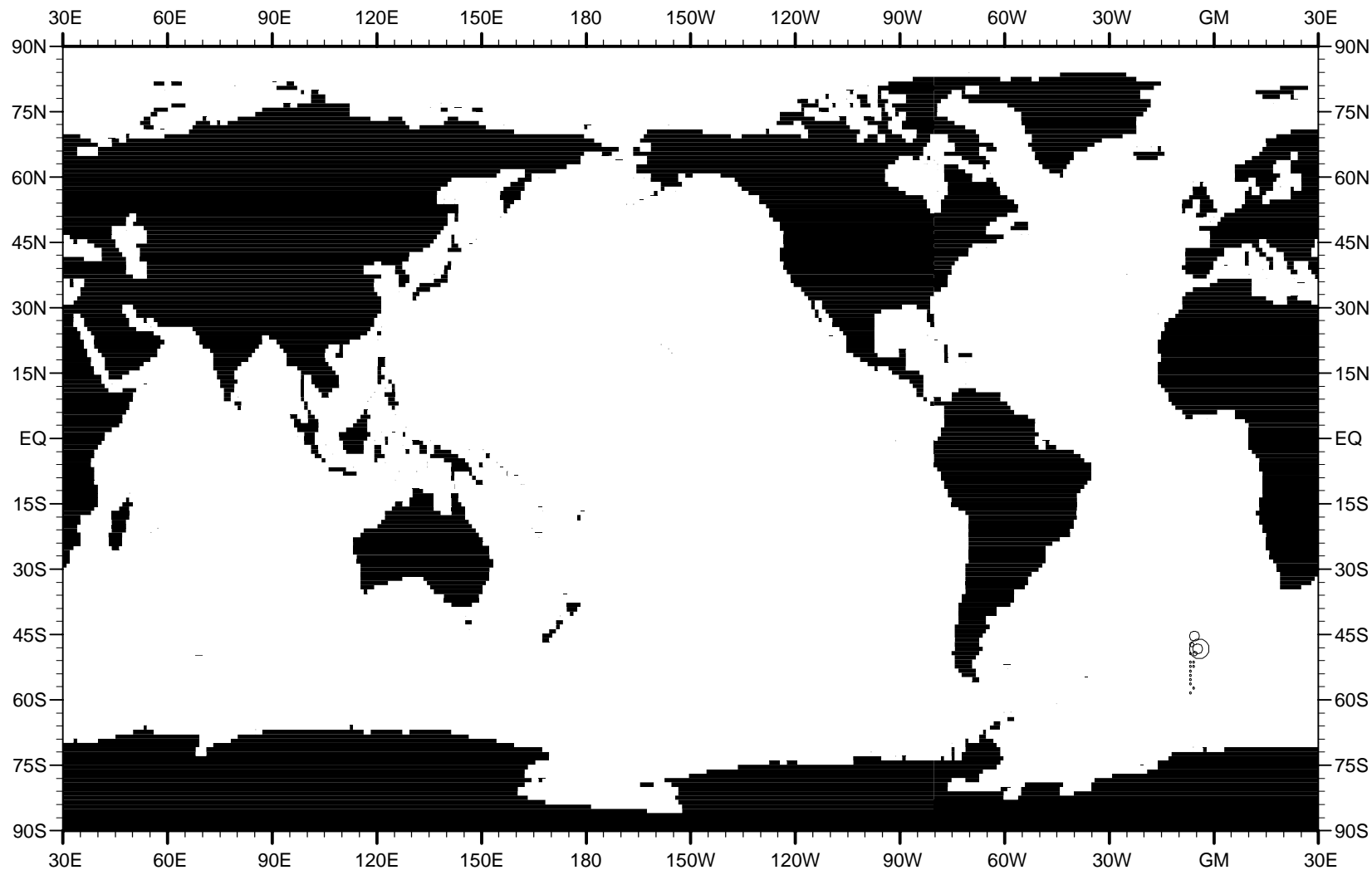


Fig. F5. Annual mean zooplankton ash-free dry mass (g/m³)

[Sampling depth interval: 0 - 200 meters; Sampling Mesh: 150 - 500 μ m]

$\leq 10.00 = \circ$
 10.00 - 20.00 = \circ
 20.00 - 30.00 = \circ
 30.00 - 40.00 = \circ
 40.00 - 50.00 = \circ
 > 50.00 = \circ

APPENDIX G

In each unanalyzed mean field figure in Appendix G, the size of the graphical circle represents the annual or seasonal mean value for that one-degree latitude-longitude square.

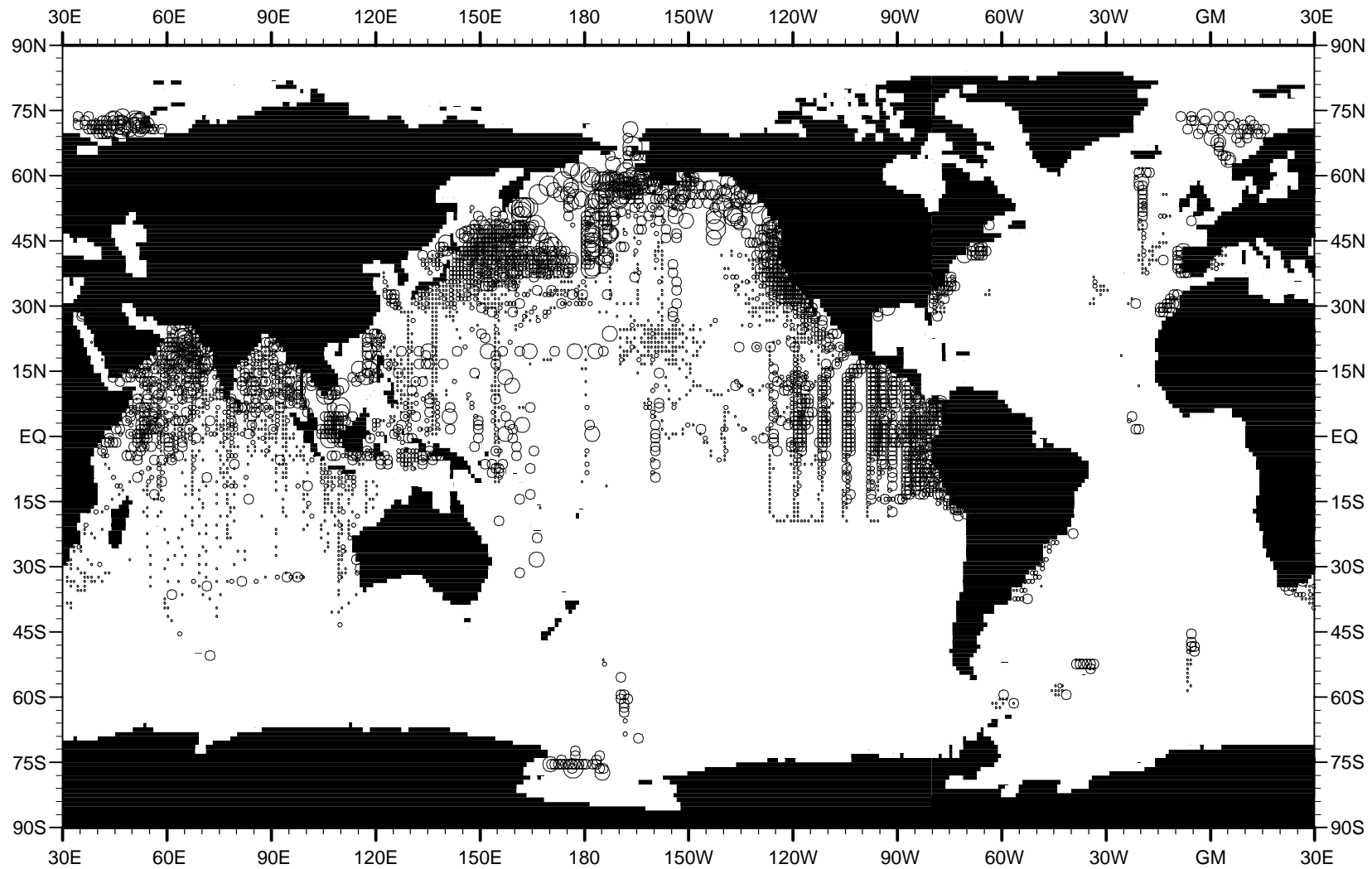


Fig. G1. Annual mean zooplankton carbon mass (mg-C/m³)

[Sampling depth interval: 0 - 200 meters; Sampling Mesh: 150 - 500 μ m]

$\leq 5.00 = \cdot$ $5.00 - 10.00 = \circ$ $10.00 - 50.00 = \bigcirc$ $50.00 - 100.00 = \bigcirc$ $100.00 - 500.00 = \bigcirc$ $> 500.00 = \bigcirc$

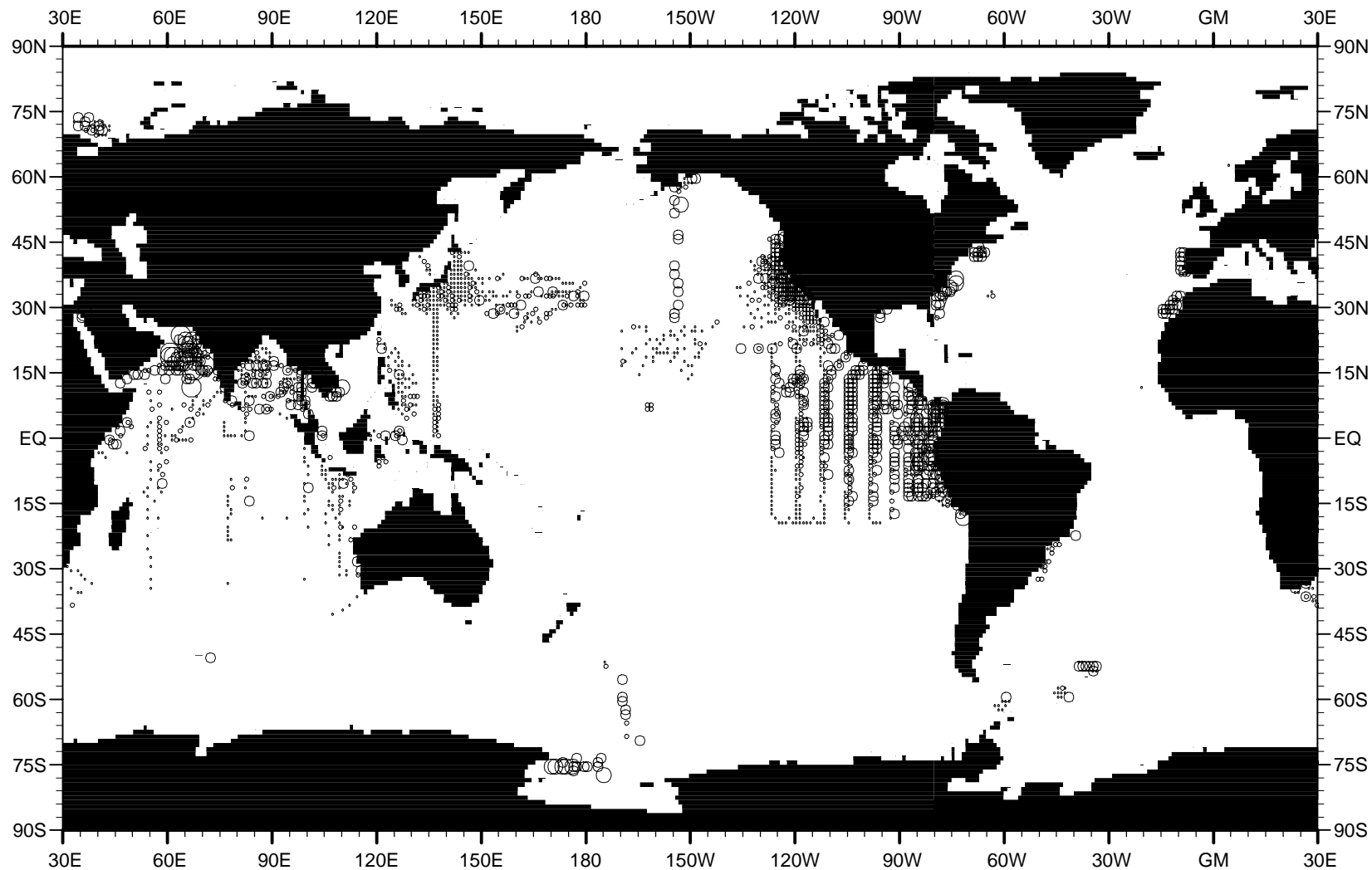


Fig. G1.1: Winter (Jan.-Mar.) mean zooplankton carbon mass (mg-C/m³)

[Sampling depth interval: 0 - 200 meters; Sampling Mesh: 150 - 500 μ m]

$\leq 5.00 = \cdot$ $5.00 - 10.00 = \circ$ $10.00 - 50.00 = \bigcirc$ $50.00 - 100.00 = \bigcirc$ $100.00 - 500.00 = \bigcirc$ $> 500.00 = \bigcirc$

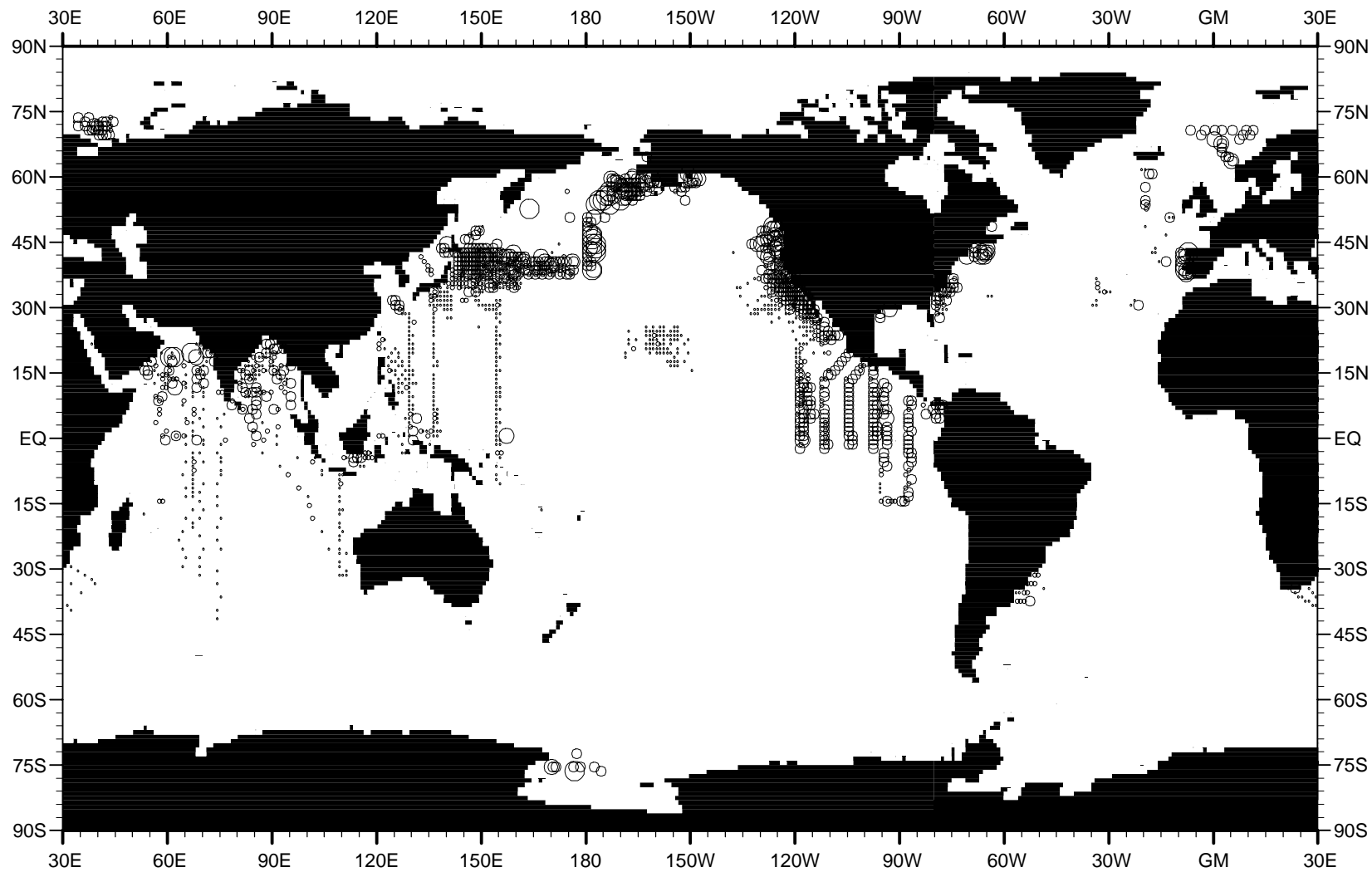


Fig. G1.2: Spring (Apr.-Jun.) mean zooplankton carbon mass (mg-C/m³)

[Sampling depth interval: 0 - 200 meters; Sampling Mesh: 150 - 500 μ m]

$\leq 5.00 = \cdot$ $5.00 - 10.00 = \circ$ $10.00 - 50.00 = \bigcirc$ $50.00 - 100.00 = \bigcirc$ $100.00 - 500.00 = \bigcirc$ $> 500.00 = \bigcirc$

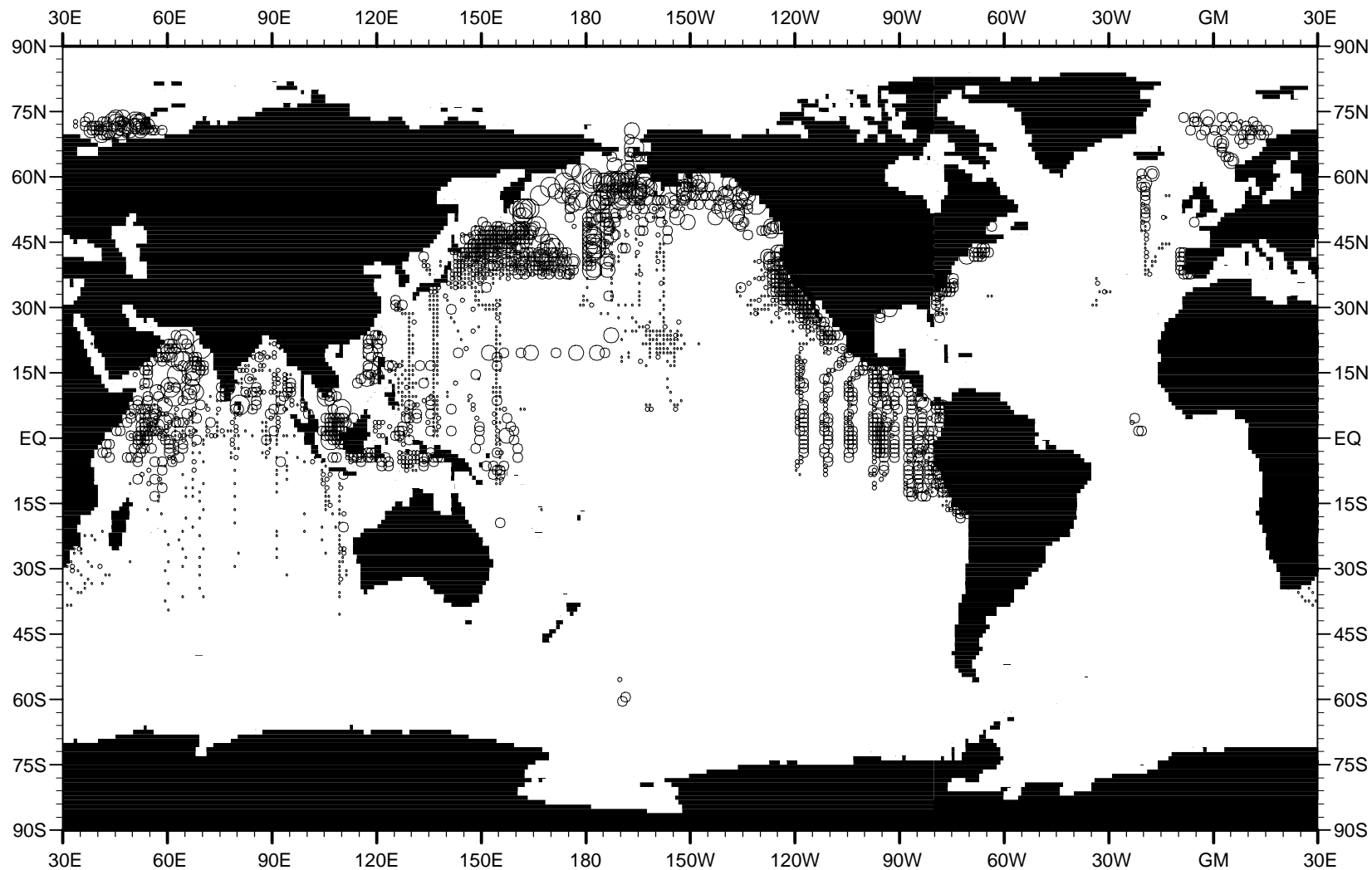


Fig. G1.3 Summer (Jul.-Sep.) mean zooplankton carbon mass (mg-C/m³)

[Sampling depth interval: 0 - 200 meters; Sampling Mesh: 150 - 500 μ m]

<= 5.00=° 5.00 - 10.00=◦ 10.00 - 50.00=○ 50.00 - 100.00=○ 100.00 - 500.00=○ > 500.00=○

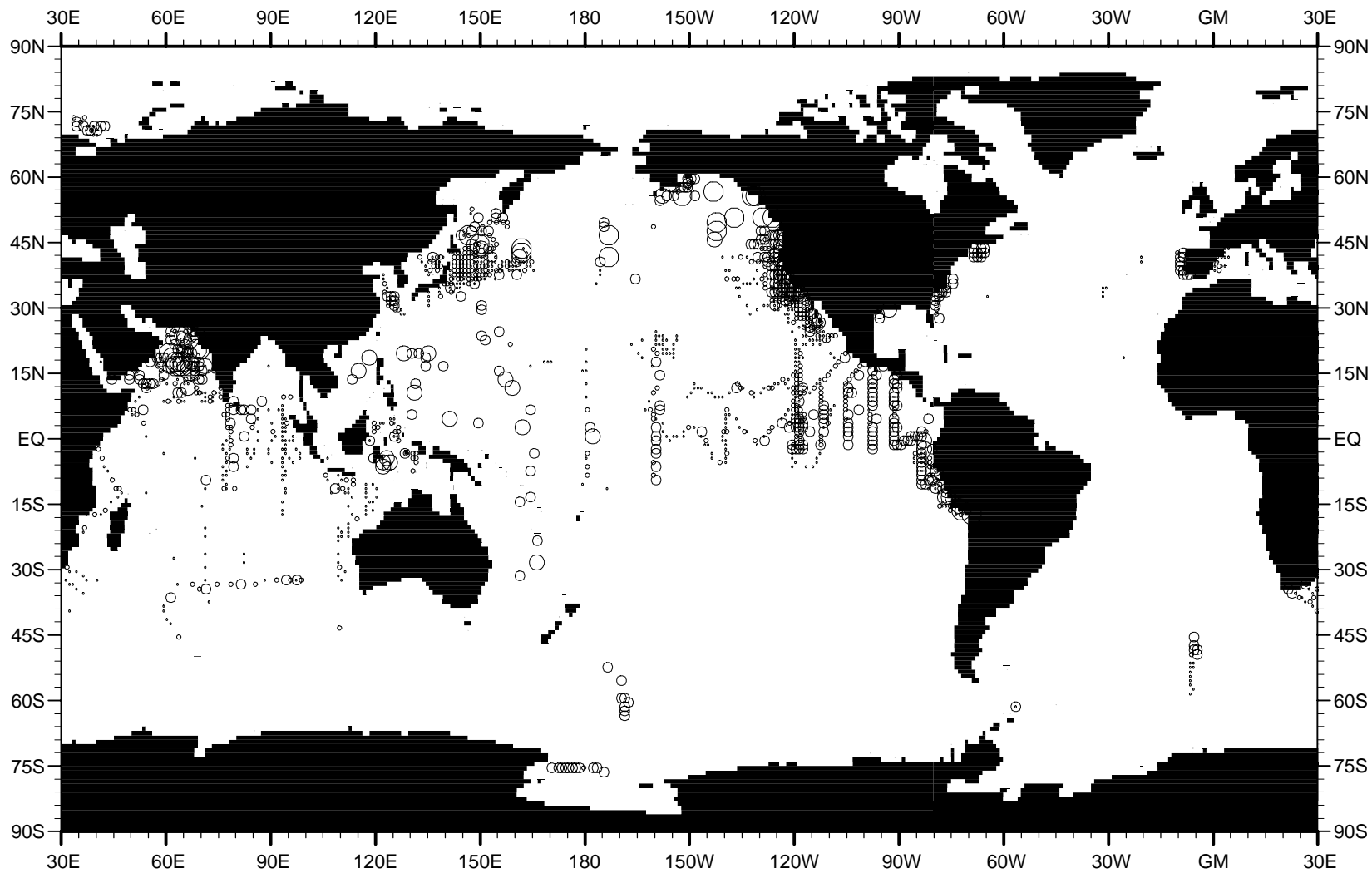


Fig. G1.4 Fall (Oct.-Dec.) mean zooplankton carbon mass (mg-C/m³)

[Sampling depth interval: 0 - 200 meters; Sampling Mesh: 150 - 500 μ m]

<= 5.00= • 5.00 - 10.00= ◦ 10.00 - 50.00= ○ 50.00 - 100.00= ◉ 100.00 - 500.00= ◉ > 500.00= ◉

APPENDIX F

This is the color version of the *World Ocean Atlas 2001* Volume 5: Plankton.

In each unanalyzed mean field figure in Appendix F, the color of the graphical dot represents the annual mean value for that one-degree latitude-longitude square.

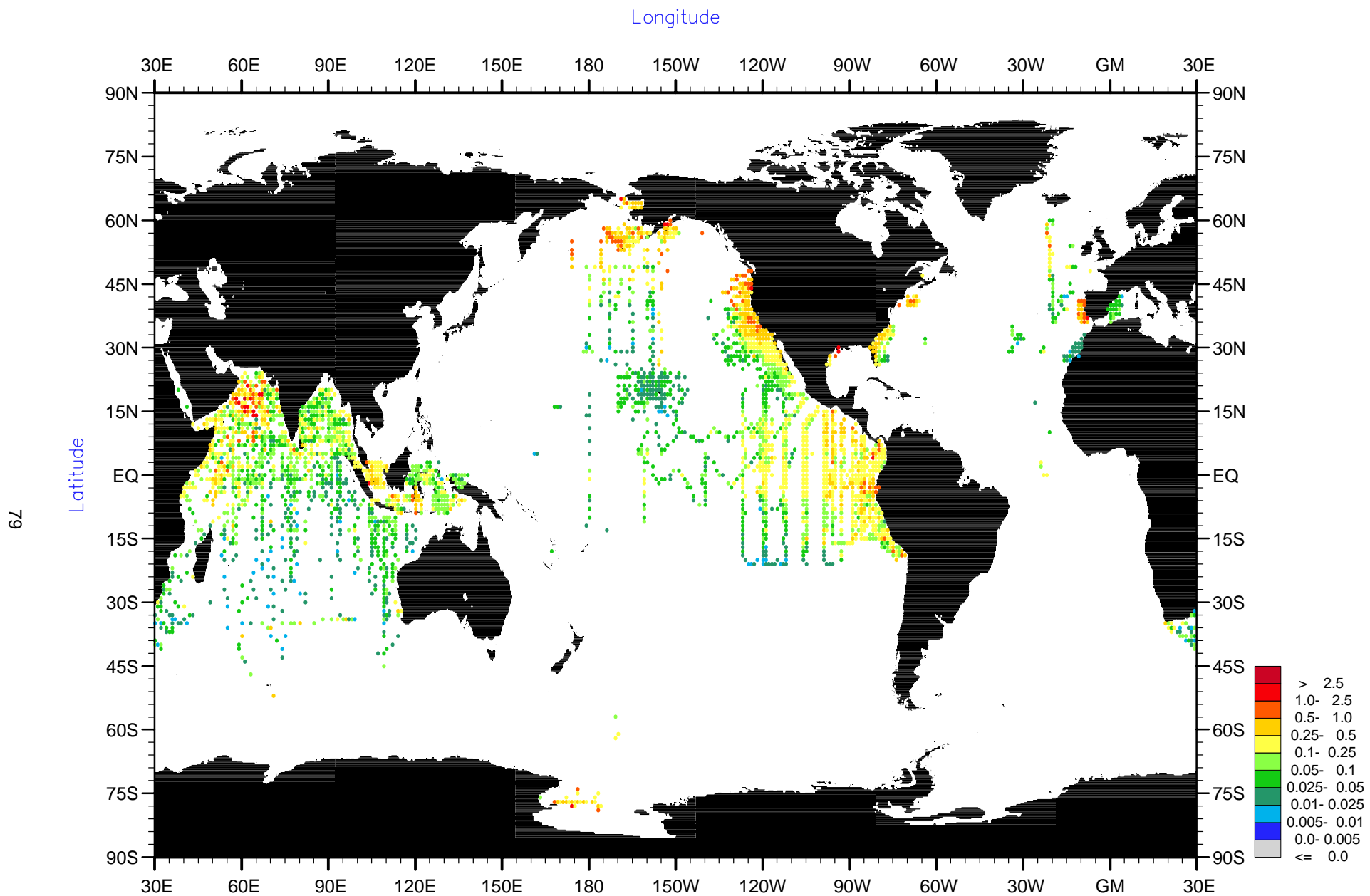


Fig. F1. Annual mean zooplankton displacement volume (ml/m³)

[Sampling depth interval: 0 - 200 meters; Sampling Mesh: 150-500 μ m]

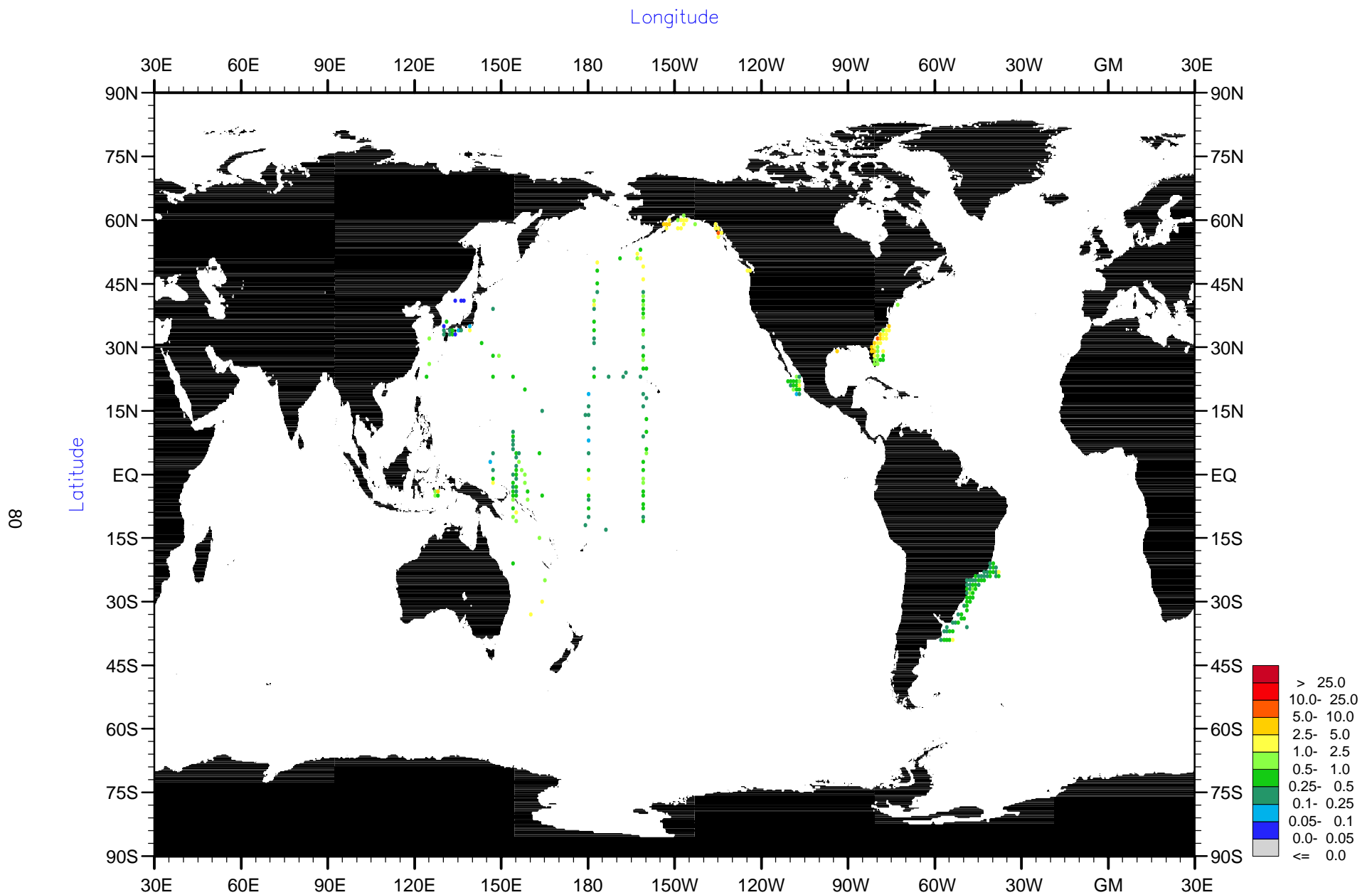


Fig. F2. Annual mean zooplankton settled volume (ml/m³)

[Sampling depth interval: 0 - 200 meters; Sampling Mesh: 150-500 μ m]

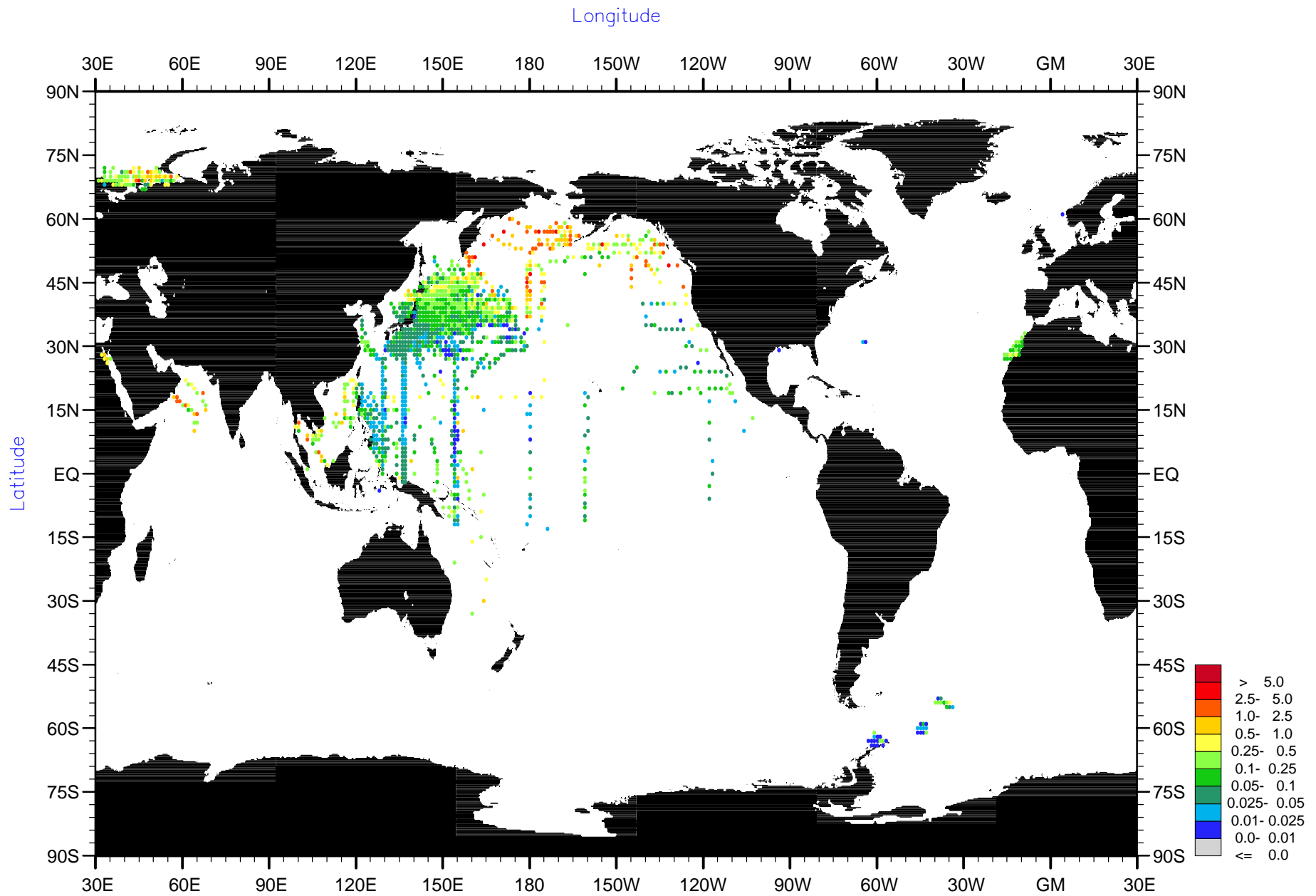


Fig. F3. Annual mean zooplankton wet mass (g/m³)

[Sampling depth interval: 0 - 200 meters; Sampling Mesh: 150-500 μ m]

Latitude

Longitude

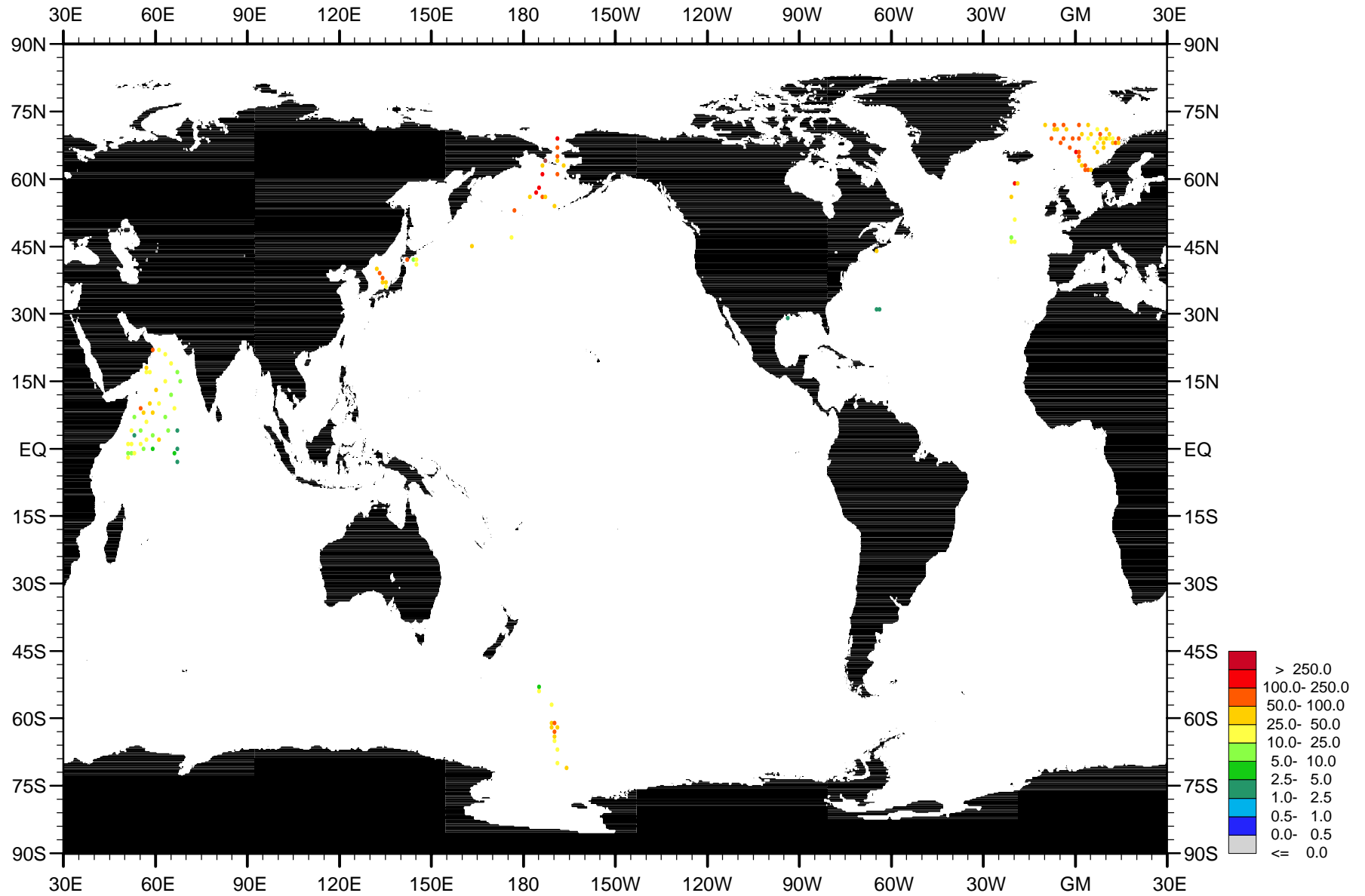


Fig. F4. Annual mean zooplankton dry mass (mg/m³)

[Sampling depth interval: 0 - 200 meters; Sampling Mesh: 150-500 μ m]

Latitude

Longitude

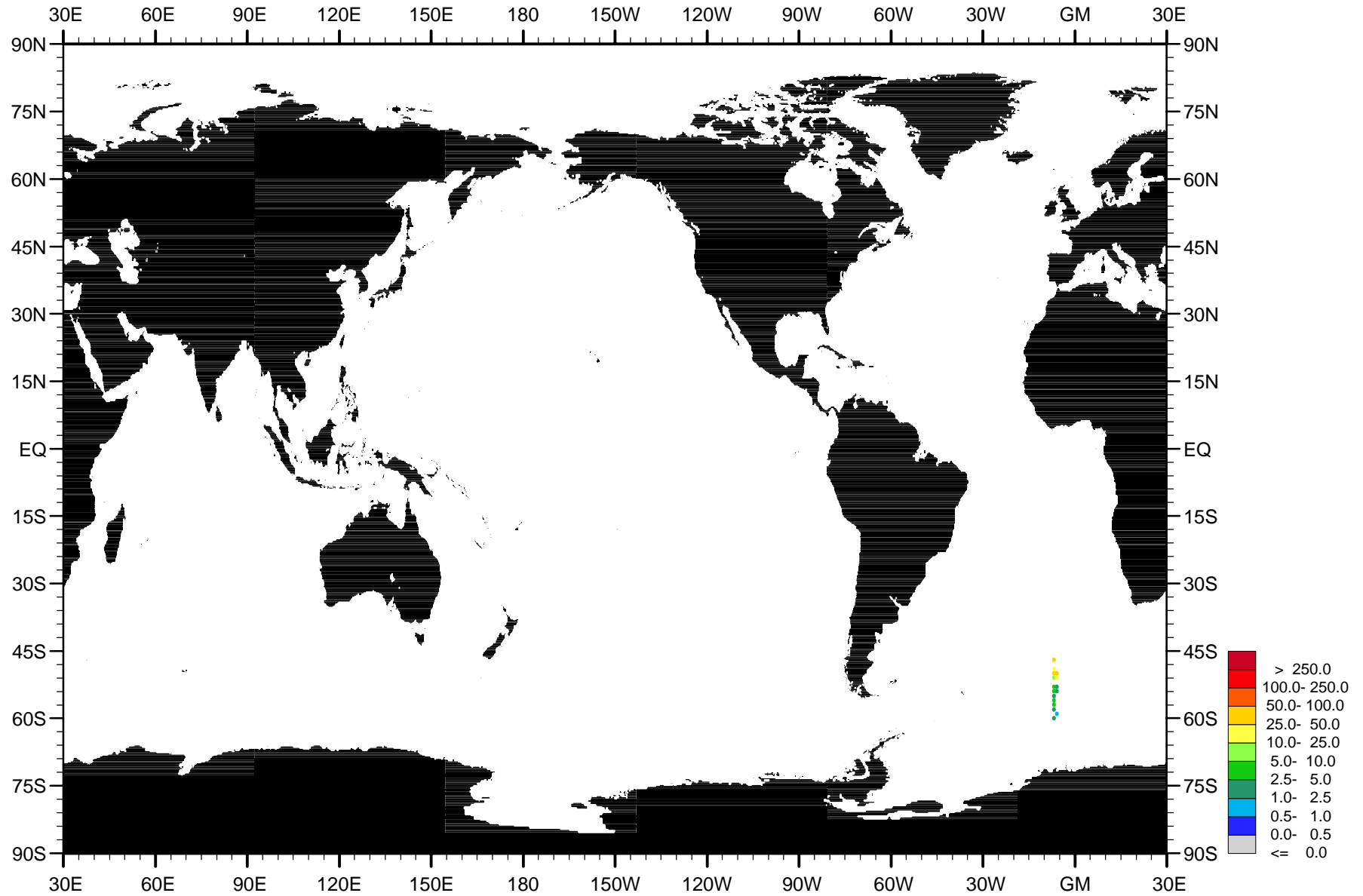


Fig. F5. Annual mean zooplankton ash-free dry mass (mg/m³)

[Sampling depth interval: 0 - 200 meters; Sampling Mesh: 150-500 μ m]

APPENDIX G

This is the color version of the *World Ocean Atlas 2001* Volume 5: Plankton.

In each unanalyzed mean field figure in Appendix G, the color of the graphical dot represents the annual or seasonal mean value for that one-degree latitude-longitude square.

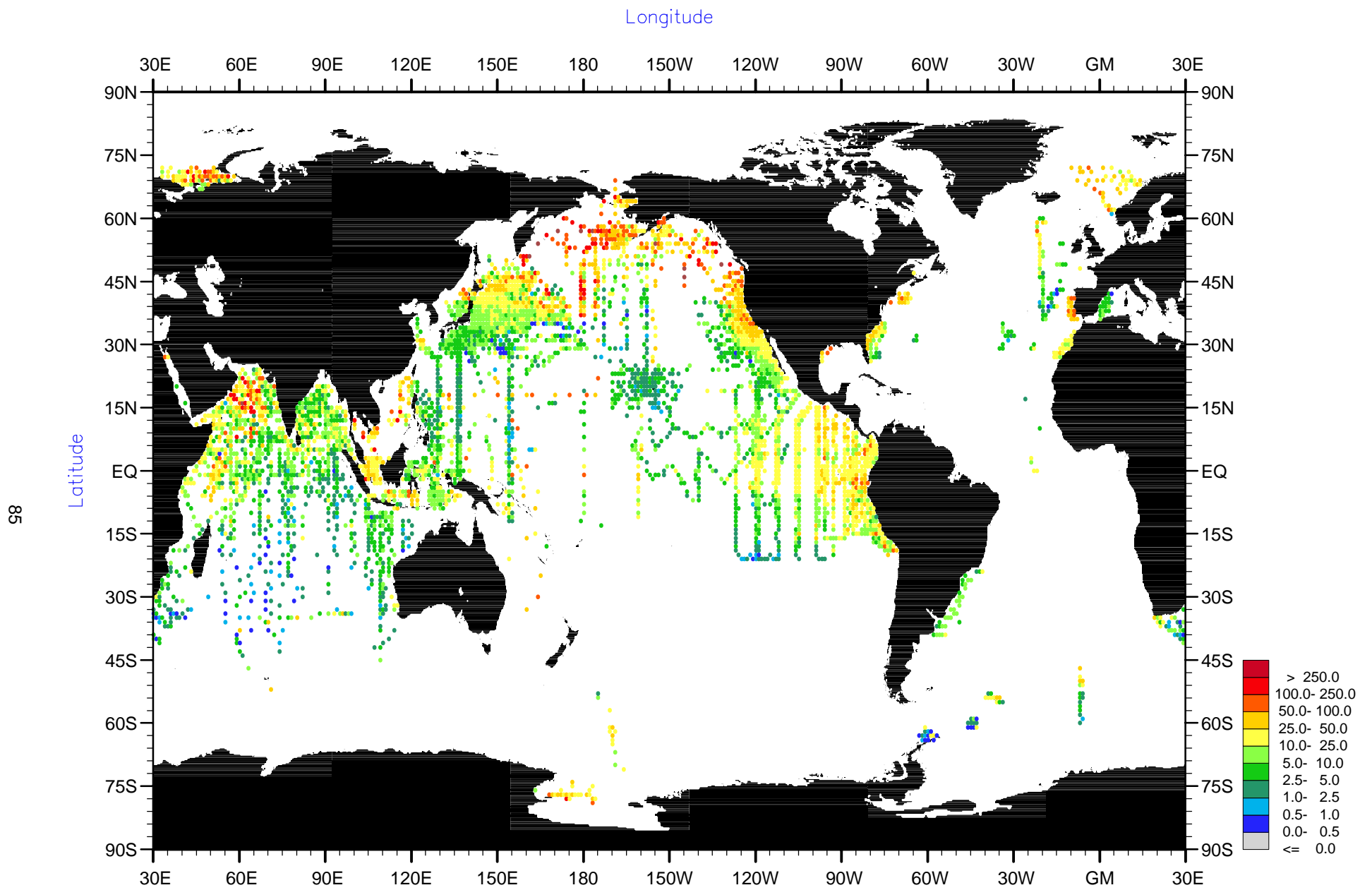


Fig. G1. Annual mean zooplankton carbon mass (mg-C/m³)

[Sampling depth interval: 0 - 200 meters; Sampling Mesh: 150-500 μm]

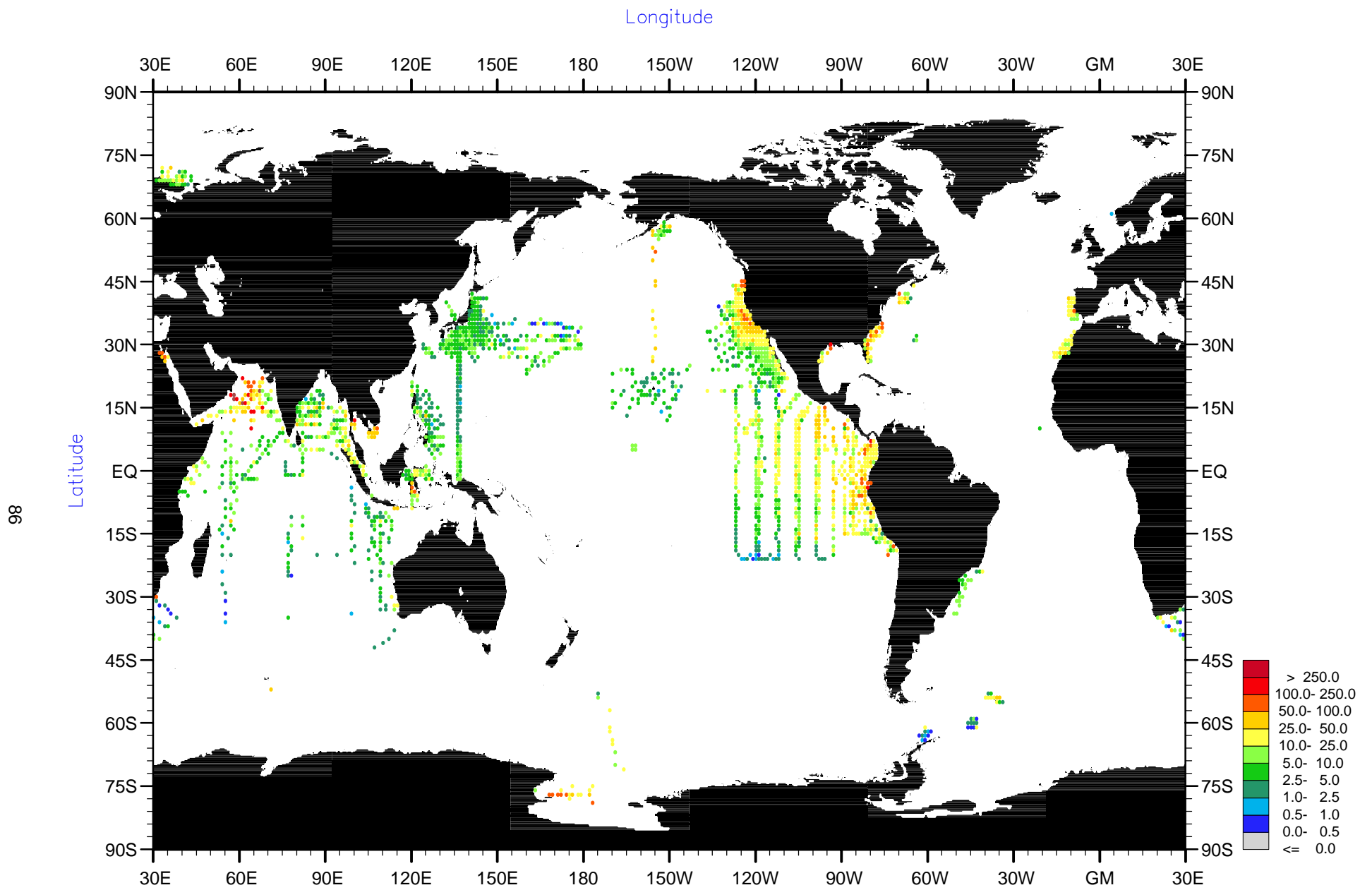


Fig. G1.1 Winter (Jan.-Mar.) mean zooplankton carbon mass (mg-C/m³)

[Sampling depth interval: 0 - 200 meters; Sampling Mesh: 150-500 μ m]

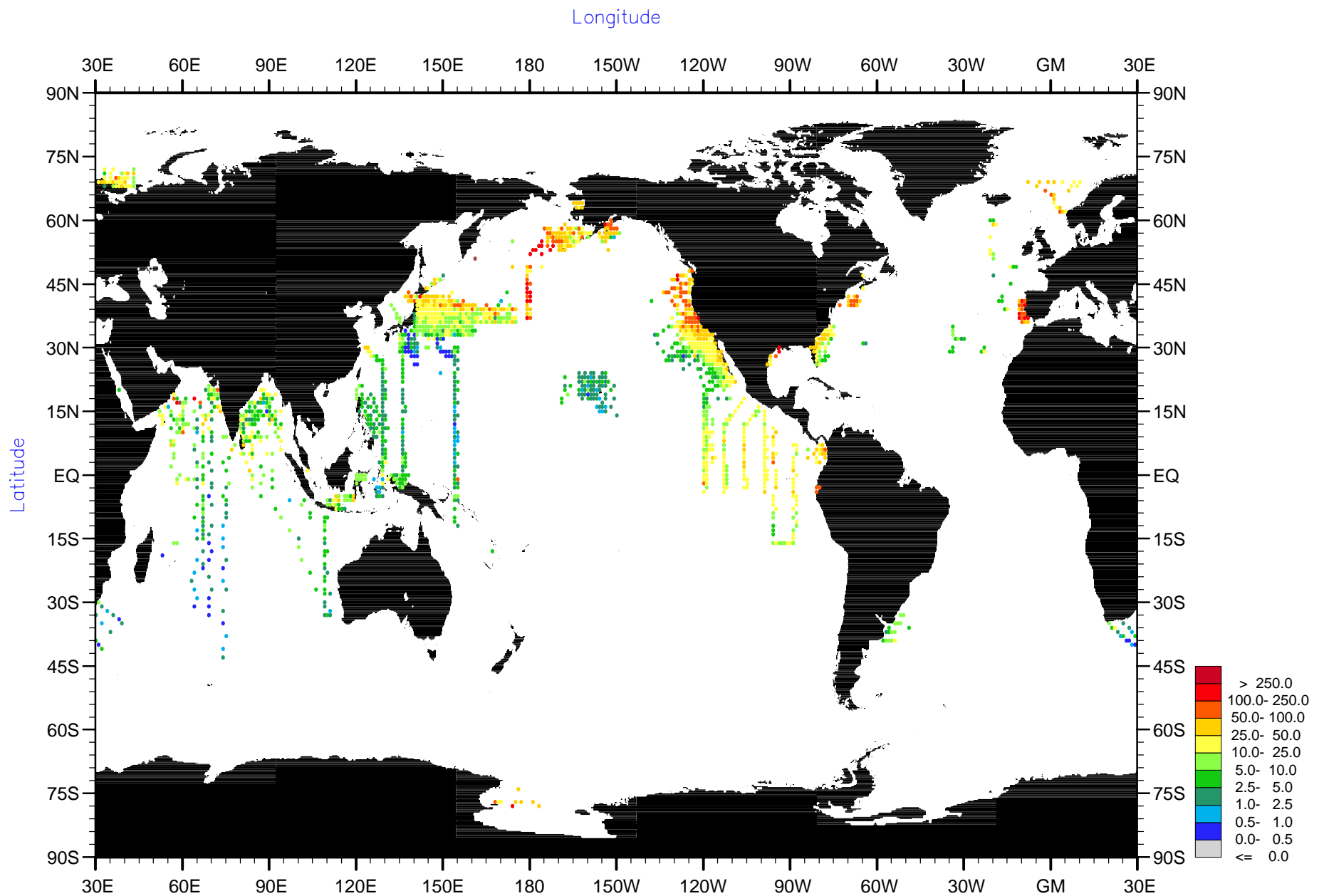


Fig. G1.2 Spring (Apr.-Jun.) mean zooplankton carbon mass (mg-C/m³)

[Sampling depth interval: 0 - 200 meters; Sampling Mesh: 150-500 μ m]

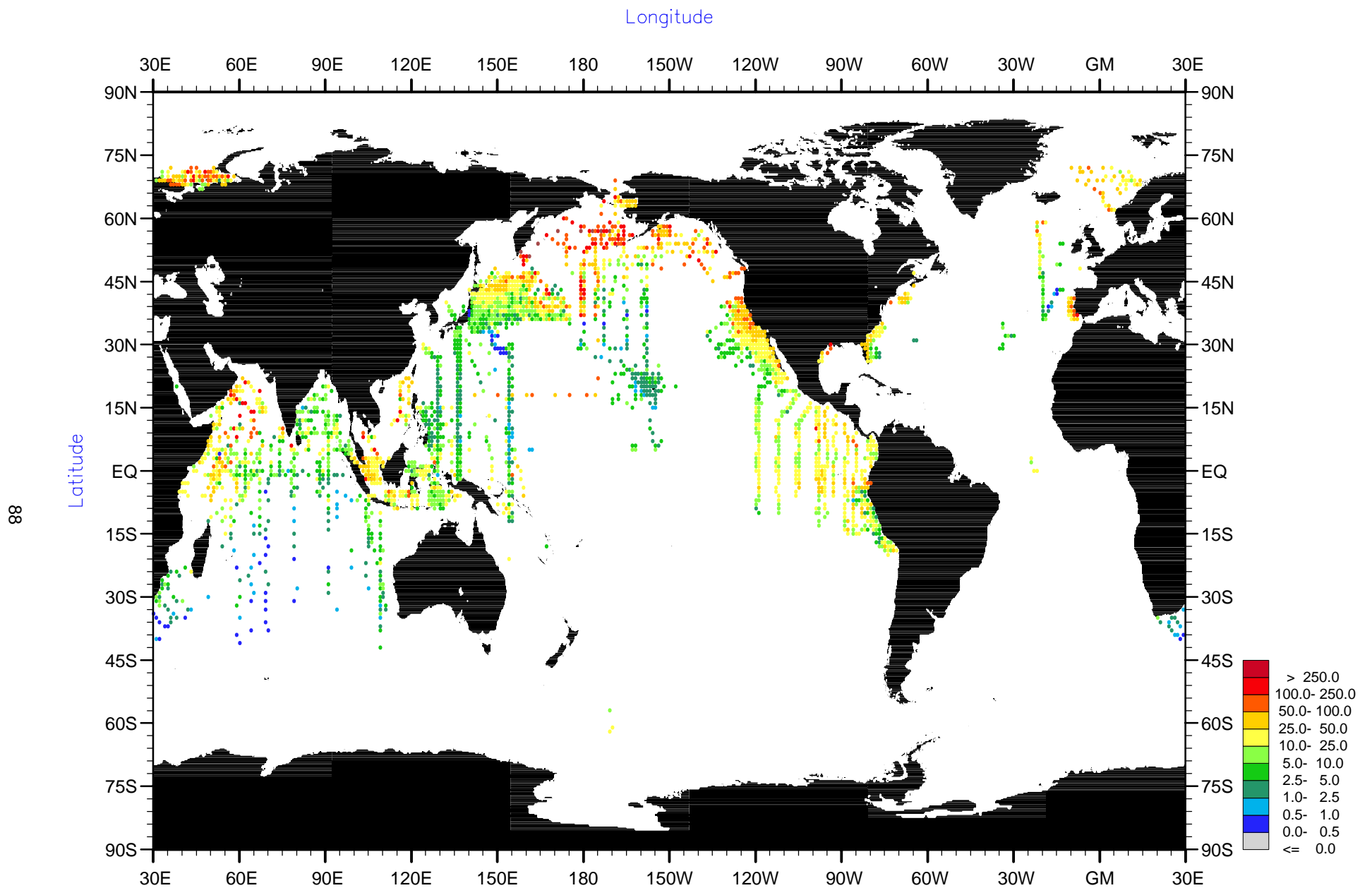


Fig. G1.3 Summer (Jul.-Sep.) mean zooplankton carbon mass (mg-C/m³)

[Sampling depth interval: 0 - 200 meters; Sampling Mesh: 150-500 μm]

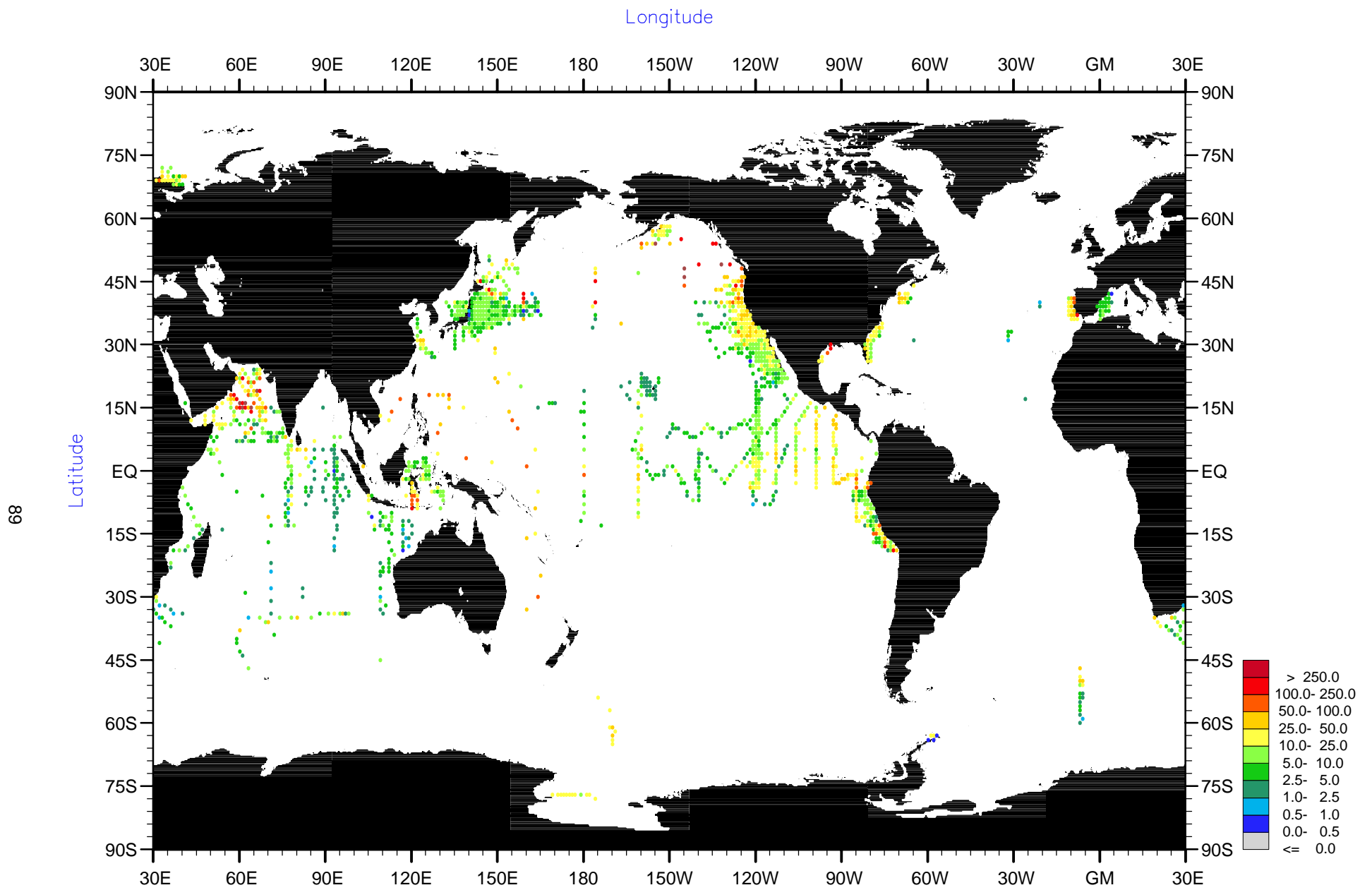


Fig. G1.4 Fall (Oct.-Dec.) mean zooplankton carbon mass (mg-C/m³)

[Sampling depth interval: 0 - 200 meters; Sampling Mesh: 150-500 μm]