

Chesapeake Bay Food Web Analysis  
NOAA Synthesis Grant/SERC

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3      6      1      1
8      3      2      2      1      3      2      1
3
1      0 100   20 365   0      1

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Bioenergetic Growth Parameters for the CASM:

Primary Producer Parameters:

			bp	topt	tmax	si	ps	snk	xp	xn	xs	pm	resp	pdo	
1	1	1	Phytog100	! 0.001	55.00	88.00	100.00	0.81	0.010	3.500	35.000	0.000	0.100	0.050	1.000
1	2	2	Phyto50100	! 0.022	55.00	88.00	100.00	1.00	0.010	3.500	35.000	0.000	0.100	0.050	1.000
1	3	3	Phyto1050	! 0.022	55.00	88.00	100.00	1.11	0.010	3.500	35.000	0.000	0.100	0.150	1.000
1	4	4	Phyto410	! 0.022	55.00	88.00	100.00	1.29	0.001	3.500	35.000	0.000	0.100	0.300	1.000
1	5	5	Phyto24	! 0.002	55.00	88.00	100.00	1.42	0.001	3.500	35.000	0.000	0.100	0.400	1.000
1	6	6	Phytolt2	! 0.004	27.00	37.00	120.00	1.71	0.001	3.500	35.000	0.000	0.100	0.350	1.000
2	1	11	Dummy1	! 0.000	20.00	45.00	200.00	0.80	0.000	3.500	35.000	0.000	0.100	0.050	1.000
3	1	21	Dummy2	! 0.000	16.00	26.00	100.00	1.41	0.010	45.000	90.000	33.000	0.000	0.100	1.000

xlk 0.05

Consumer Population Parameters:

			bc	cmx	rs	rsda	tc	tm	tr	u	sdv	srp	cm	dummy1	dummy2	crdo	ccdo	
1	1	31	Copepods	!0.88E-03	1.400	3.000	0.160	8.000	10.000	45.000	0.013	0.000	0.050	0.001	1.000	1.000	0.000	0.000
1	2	32	Microzoopl	!0.12E-04	1.500	0.300	0.000	25.000	45.000	27.000	0.020	0.000	0.000	0.010	1.000	1.000	0.000	0.000
1	3	33	HNAN	!0.40E-02	1.300	0.780	0.000	25.000	40.000	40.000	0.040	0.000	0.000	0.050	1.000	1.000	0.000	0.000
2	1	36	Ctenophores	!0.54E-03	0.600	0.150	0.000	22.000	37.000	30.000	0.041	0.000	0.005	0.030	1.000	1.000	0.000	0.000
2	2	37	Sea Nettles	!0.10E-08	0.900	0.100	0.000	22.000	30.000	30.000	0.040	0.000	0.000	0.060	1.000	1.000	0.000	0.000
3	1	41	Atlan menhaden	!0.73E-01	1.300	0.002	0.170	26.000	36.000	33.000	0.100	0.000	0.005	0.005	1.000	1.000	1.000	0.350
3	2	42	Bay anchovy	!0.30E-01	0.410	0.018	0.100	27.000	35.000	30.000	0.150	0.000	0.005	0.006	1.000	1.000	1.000	0.060
4	1	46	Bacterioplankt	!0.40E-01	1.500	0.550	0.300	20.000	30.000	30.000	0.000	0.000	0.000	0.080	1.000	1.000	0.000	0.000
5	1	51	Onreef Invert	!0.50E-01	0.080	0.080	0.000	30.000	50.000	45.000	0.300	0.000	0.000	0.001	1.000	1.000	0.000	0.000
5	2	52	Offreef Invert	!0.66E+00	0.080	0.080	0.000	30.000	50.000	45.000	0.300	0.000	0.000	0.001	1.000	1.000	0.000	0.000
5	3	53	Oysters	!0.41E-01	0.550	0.015	0.200	27.000	34.000	37.000	0.015	0.000	0.015	0.001	1.000	1.000	0.000	0.000
6	1	56	Reefassoc Fish	!0.13E-01	0.150	0.034	0.100	27.000	34.000	29.000	0.100	0.000	0.001	0.002	1.000	1.000	1.000	0.900
6	2	57	Nonreef Fish	!0.54E-02	0.300	0.030	0.100	27.000	34.000	29.000	0.060	0.000	0.000	0.001	1.000	1.000	1.000	0.012
7	1	61	Benth bacteria	!0.40E-01	1.500	0.550	0.300	20.000	30.000	30.000	0.000	0.000	0.000	0.080	1.000	1.000	0.000	0.000
8	1	66	Ctenolarvae	!0.00E+00	0.700	0.000	0.000	25.000	35.000	25.000	0.025	0.000	0.000	0.070	1.000	1.000	0.000	0.000
8	2	67	Anchovy larvae	!0.00E+00	0.700	0.000	0.000	25.000	35.000	25.000	0.025	0.000	0.000	0.050	1.000	1.000	0.000	0.000
8	3	68	Oyster larvae	!0.00E+00	0.700	0.000	0.000	25.000	35.000	25.000	0.025	0.000	0.000	0.100	1.000	1.000	0.000	0.000
Ctenolarvae			1.000	3.0	10.0													
Anchovy larvae			0.003	1.0	10.0													
Oyster larvae			0.003	1.0	3.0													
bact xkn,xkp			5.	10.														
			5.	0.0090	0.1500	0.17600	1.42											
			0.030	0.50	1.	11.20												
			0.090	0.64	1.													
			3.	1.3	3.	1.30	10.00											

Reading food web file...

1	1	0.10	0.90	1.00	!Phytog100
2	1	0.60	0.90	1.00	!Phytog50
3	1	0.60	0.90	1.00	!Phyto1050
4	1	0.60	0.90	1.00	!Phyto410
5	1	0.10	0.90	1.00	!Phyto24
6	1	0.00	0.90	1.00	!Phytolt2
32	1	0.60	0.90	1.00	!microzoo
33	1	0.10	0.65	1.00	!HNAN
46	1	0.00	0.65	1.00	!Bacterioplankton
1	2	0.00	0.65	1.00	!Phytog100
2	2	0.00	0.65	1.00	!Phytog50
3	2	0.60	0.65	1.00	!Phyto1050

4	2	0.80	0.65	1.00	!Phyto410
5	2	0.60	0.65	1.00	!Phyto24
6	2	0.10	0.65	1.00	!Phytolt2
33	2	0.00	0.65	1.00	!HNAN
46	2	0.20	0.65	1.00	!Bacterioplankton
1	3	0.00	0.65	1.00	!Phytog100
2	3	0.00	0.65	1.00	!Phytog50
3	3	0.00	0.65	1.00	!Phyto1050
4	3	0.00	0.65	1.00	!Phyto410
5	3	0.10	0.65	1.00	!Phyto24
6	3	0.65	0.65	1.00	!Phytolt2
46	3	0.65	0.65	1.00	!Bacterioplankton
31	6	0.80	0.66	1.000	!Copepods
32	6	0.60	0.66	1.000	!Microzooplankton
67	6	0.80	0.66	1.000	!Anchovy larvae
68	6	0.60	0.66	1.000	!Oyster larvae
31	7	0.60	0.80	0.85	!Copepods
36	7	0.90	0.80	1.00	!Ctenophores
67	7	0.80	0.80	1.00	!Anchovy larvae
1	11	0.90	0.85	1.00	!Phytog100
2	11	0.90	0.85	1.00	!Phytog50
3	11	0.75	0.85	1.00	!Phyto1050
4	11	0.10	0.85	1.00	!Phyto410
72	11	0.01	0.50	1.00	!Water col POC
31	12	0.80	0.92	1.00	!Copepods
32	12	0.60	0.92	1.00	!Microzooplankton
71	16	0.80	0.80	1.00	!Water column DOC
72	16	0.20	0.80	1.00	!Water column POC
1	21	0.60	0.60	1.00	!Phytog100
2	21	0.60	0.60	1.00	!Phytog50
3	21	0.60	0.60	1.00	!Phyto1050
4	21	0.60	0.60	1.00	!Phyto410
5	21	0.60	0.60	1.00	!Phyto24
32	21	0.10	0.60	1.00	!Microzooplk
51	21	0.10	0.60	1.00	!Onreef Inverts
72	21	0.40	0.60	1.00	!Water column POC
75	21	0.80	0.60	1.00	!Sedimented POC
1	22	0.60	0.60	1.00	!Phytog100
2	22	0.60	0.60	1.00	!Phytog50
3	22	0.60	0.60	1.00	!Phyto1050
4	22	0.60	0.60	1.00	!Phyto410
5	22	0.60	0.60	1.00	!Phyto24
32	22	0.10	0.60	1.00	!Microzooplk
52	22	0.10	0.60	1.00	!Offreef Inverts
74	22	0.40	0.60	1.00	!Water column POC
75	22	0.80	0.60	1.00	!Sedimented POC
1	23	1.00	0.80	0.90	!Phytog100
2	23	1.00	0.80	0.90	!Phytog50
3	23	1.00	0.80	0.90	!Phyto1050
4	23	1.00	0.80	0.90	!Phyto410
5	23	1.00	0.80	0.75	!Phyto24
6	23	1.00	0.80	0.05	!Phytolt2
72	23	1.00	0.80	0.90	!Water column POC
51	26	0.80	0.80	1.00	!Onreef inverts
52	26	0.20	0.80	1.00	!Offreef inverts
56	26	0.20	0.80	1.00	!Reef assoc fish
68	26	0.80	0.80	1.00	!Oyster larvae
51	27	0.80	0.80	1.00	!Onreef inverts
52	27	0.80	0.80	1.00	!Offreef inverts
56	27	0.20	0.80	1.00	!Reef assoc fish
68	27	0.20	0.80	1.00	!Oyster larvae
73	31	0.20	0.80	1.00	!Hypolimnetic DOC

75 31	0.80	0.65	1.00	!Sedimented POC
31 36	0.20	0.80	1.00	!Copepods
32 36	0.80	0.80	1.00	!Microzooplankton
31 37	0.80	0.80	1.00	!Copepods
32 37	0.80	0.80	1.00	!Microzooplankton
4 38	0.20	0.80	1.00	!4to10mu Phyto
5 38	0.80	0.80	1.00	!2to4mu Phyto
6 38	0.80	0.80	1.00	!lt2mu Phyto

N	P	Si	
1.000	1.000	1.000	

Surface layer volume  
.35E+011

Environ  
Trib

Day	Te C	Th C	Light Eins/m2/d	TSS mg/L	Nitr mg/L	Phos mg/L	Si mg/L	TSSld d-1
1	6.84	6.84	43.7	11.20	0.503	0.026	10.	
2	6.56	6.56	43.8	11.27	0.520	0.027	10.	
3	6.28	6.28	44.0	11.33	0.538	0.028	10.	
4	6.02	6.02	44.2	11.39	0.555	0.029	10.	
5	5.76	5.76	44.4	11.45	0.571	0.030	10.	
6	5.52	5.52	44.6	11.51	0.588	0.030	10.	
7	5.28	5.28	44.8	11.57	0.604	0.031	10.	
8	5.06	5.06	45.1	11.63	0.619	0.032	10.	
9	4.85	4.85	45.3	11.69	0.635	0.032	10.	
10	4.64	4.64	45.6	11.75	0.650	0.033	10.	
11	4.44	4.44	45.9	11.81	0.665	0.034	10.	
12	4.26	4.26	46.1	11.87	0.679	0.034	10.	
13	4.08	4.08	46.4	11.92	0.693	0.035	10.	
14	3.91	3.91	46.8	11.98	0.707	0.035	10.	
15	3.75	3.75	47.1	12.03	0.721	0.036	10.	
16	3.60	3.60	47.4	12.09	0.734	0.036	10.	
17	3.46	3.46	47.8	12.14	0.747	0.037	10.	
18	3.33	3.33	48.1	12.20	0.759	0.037	10.	
19	3.20	3.20	48.5	12.25	0.772	0.038	10.	
20	3.08	3.08	48.9	12.30	0.784	0.038	10.	
21	2.98	2.98	49.3	12.36	0.796	0.038	10.	
22	2.88	2.88	49.7	12.41	0.807	0.039	10.	
23	2.78	2.78	50.1	12.46	0.819	0.039	10.	
24	2.70	2.70	50.6	12.51	0.830	0.039	10.	
25	2.62	2.62	51.0	12.56	0.840	0.040	10.	
26	2.55	2.55	51.5	12.61	0.851	0.040	10.	
27	2.49	2.49	51.9	12.66	0.861	0.040	10.	
28	2.44	2.44	52.4	12.71	0.871	0.040	10.	
29	2.39	2.39	52.9	12.75	0.881	0.041	10.	
30	2.35	2.35	53.4	12.80	0.890	0.041	10.	
31	2.32	2.32	53.9	12.85	0.899	0.041	10.	
32	2.29	2.29	54.4	12.90	0.908	0.041	10.	
33	2.27	2.27	54.9	12.94	0.917	0.041	10.	
34	2.26	2.26	55.5	12.99	0.926	0.041	10.	
35	2.25	2.25	56.0	13.03	0.934	0.041	10.	
36	2.25	2.25	56.6	13.08	0.942	0.042	10.	
37	2.26	2.26	57.2	13.12	0.950	0.042	10.	
38	2.27	2.27	57.7	13.16	0.957	0.042	10.	
39	2.29	2.29	58.3	13.20	0.965	0.042	10.	
40	2.31	2.31	58.9	13.25	0.972	0.042	10.	
41	2.35	2.35	59.5	13.29	0.979	0.042	10.	
42	2.38	2.38	60.1	13.33	0.985	0.042	10.	
43	2.42	2.42	60.7	13.37	0.992	0.042	10.	
44	2.47	2.47	61.4	13.41	0.998	0.042	10.	

45	2.53	2.53	62.0	13.45	1.004	0.042	10.
46	2.58	2.58	62.6	13.49	1.010	0.042	10.
47	2.65	2.65	63.3	13.53	1.015	0.042	10.
48	2.72	2.72	63.9	13.57	1.021	0.042	10.
49	2.79	2.79	64.6	13.60	1.026	0.042	10.
50	2.87	2.87	65.3	13.64	1.031	0.042	10.
51	2.96	2.96	65.9	13.68	1.036	0.042	10.
52	3.04	3.04	66.6	13.71	1.041	0.042	10.
53	3.14	3.14	67.3	13.75	1.045	0.042	10.
54	3.24	3.24	68.0	13.78	1.049	0.042	10.
55	3.34	3.34	68.7	13.82	1.054	0.042	10.
56	3.44	3.44	69.4	13.85	1.058	0.042	10.
57	3.56	3.56	70.1	13.89	1.061	0.042	10.
58	3.67	3.67	70.8	13.92	1.065	0.042	10.
59	3.79	3.79	71.5	13.95	1.068	0.041	10.
60	3.91	3.91	72.2	13.98	1.071	0.041	10.
61	4.04	4.04	72.9	14.02	1.075	0.041	10.
62	4.17	4.17	73.6	14.05	1.077	0.041	10.
63	4.31	4.31	74.4	14.08	1.080	0.041	10.
64	4.45	4.45	75.1	14.11	1.083	0.041	10.
65	4.59	4.59	75.8	14.14	1.085	0.041	10.
66	4.73	4.73	76.5	14.17	1.087	0.041	10.
67	4.88	4.88	77.3	14.20	1.090	0.041	10.
68	5.03	5.03	78.0	14.22	1.091	0.041	10.
69	5.19	5.19	78.7	14.25	1.093	0.041	10.
70	5.35	5.35	79.5	14.28	1.095	0.041	10.
71	5.51	5.51	80.2	14.31	1.097	0.041	10.
72	5.67	5.67	80.9	14.33	1.098	0.040	10.
73	5.84	5.84	81.7	14.36	1.099	0.040	10.
74	6.01	6.01	82.4	14.38	1.100	0.040	10.
75	6.18	6.18	83.1	14.41	1.101	0.040	10.
76	6.35	6.35	83.9	14.43	1.102	0.040	10.
77	6.53	6.53	84.6	14.46	1.103	0.040	10.
78	6.71	6.71	85.3	14.48	1.103	0.040	10.
79	6.89	6.89	86.0	14.51	1.104	0.040	10.
80	7.07	7.07	86.8	14.53	1.104	0.040	10.
81	7.26	7.26	87.5	14.55	1.104	0.040	10.
82	7.45	7.45	88.2	14.57	1.104	0.040	10.
83	7.64	7.64	88.9	14.60	1.104	0.040	10.
84	7.83	7.83	89.6	14.62	1.104	0.040	10.
85	8.02	8.02	90.4	14.64	1.104	0.040	10.
86	8.22	8.22	91.1	14.66	1.104	0.040	10.
87	8.42	8.42	91.8	14.68	1.103	0.040	10.
88	8.61	8.61	92.5	14.70	1.103	0.040	10.
89	8.81	8.81	93.2	14.72	1.102	0.040	10.
90	9.01	9.01	93.8	14.73	1.101	0.040	10.
91	9.22	9.22	94.5	14.75	1.100	0.039	10.
92	9.42	9.42	95.2	14.77	1.099	0.039	10.
93	9.63	9.63	95.9	14.79	1.098	0.039	10.
94	9.83	9.83	96.6	14.81	1.097	0.039	10.
95	10.04	10.04	97.2	14.82	1.096	0.039	10.
96	10.25	10.25	97.9	14.84	1.094	0.039	10.
97	10.46	10.46	98.5	14.85	1.093	0.039	10.
98	10.67	10.67	99.2	14.87	1.092	0.039	10.
99	10.88	10.88	99.8	14.88	1.090	0.039	10.
100	11.09	11.09	100.4	14.90	1.088	0.040	10.
101	11.30	11.30	101.1	14.91	1.086	0.040	10.
102	11.51	11.51	101.7	14.93	1.085	0.040	10.
103	11.73	11.73	102.3	14.94	1.083	0.040	10.
104	11.94	11.94	102.9	14.95	1.081	0.040	10.
105	12.15	12.15	103.5	14.96	1.079	0.040	10.
106	12.37	12.37	104.1	14.98	1.076	0.040	10.

107	12.58	12.58	104.7	14.99	1.074	0.040	10.
108	12.79	12.79	105.3	15.00	1.072	0.040	10.
109	13.01	13.01	105.8	15.01	1.070	0.040	10.
110	13.22	13.22	106.4	15.02	1.067	0.040	10.
111	13.44	13.44	107.0	15.03	1.065	0.040	10.
112	13.65	13.65	107.5	15.04	1.062	0.040	10.
113	13.87	13.87	108.0	15.05	1.060	0.040	10.
114	14.08	14.08	108.6	15.06	1.057	0.040	10.
115	14.29	14.29	109.1	15.07	1.054	0.040	10.
116	14.51	14.51	109.6	15.08	1.051	0.041	10.
117	14.72	14.72	110.1	15.09	1.049	0.041	10.
118	14.93	14.93	110.6	15.09	1.046	0.041	10.
119	15.14	15.14	111.1	15.10	1.043	0.041	10.
120	15.35	15.35	111.6	15.11	1.040	0.041	10.
121	15.56	15.56	112.0	15.11	1.037	0.041	10.
122	15.77	15.77	112.5	15.12	1.034	0.041	10.
123	15.98	15.98	112.9	15.12	1.031	0.041	10.
124	16.19	16.19	113.4	15.13	1.027	0.042	10.
125	16.40	16.40	113.8	15.14	1.024	0.042	10.
126	16.60	16.60	114.2	15.14	1.021	0.042	10.
127	16.81	16.81	114.7	15.14	1.018	0.042	10.
128	17.01	17.01	115.1	15.15	1.014	0.042	10.
129	17.22	17.22	115.5	15.15	1.011	0.042	10.
130	17.42	17.42	115.9	15.15	1.008	0.043	10.
131	17.62	17.62	116.2	15.16	1.004	0.043	10.
132	17.82	17.82	116.6	15.16	1.001	0.043	10.
133	18.02	18.02	117.0	15.16	0.998	0.043	10.
134	18.21	18.21	117.3	15.16	0.994	0.043	10.
135	18.41	18.41	117.7	15.17	0.991	0.044	10.
136	18.60	18.60	118.0	15.17	0.987	0.044	10.
137	18.80	18.80	118.3	15.17	0.983	0.044	10.
138	18.99	18.99	118.6	15.17	0.980	0.044	10.
139	19.18	19.18	118.9	15.17	0.976	0.044	10.
140	19.36	19.36	119.2	15.17	0.973	0.045	10.
141	19.55	19.55	119.5	15.17	0.969	0.045	10.
142	19.74	19.74	119.8	15.17	0.965	0.045	10.
143	19.92	19.92	120.1	15.17	0.962	0.045	10.
144	20.10	20.10	120.3	15.16	0.958	0.046	10.
145	20.28	20.28	120.6	15.16	0.954	0.046	10.
146	20.46	20.46	120.8	15.16	0.951	0.046	10.
147	20.63	20.63	121.0	15.16	0.947	0.046	10.
148	20.81	20.81	121.2	15.16	0.943	0.047	10.
149	20.98	20.98	121.5	15.15	0.939	0.047	10.
150	21.15	21.15	121.7	15.15	0.936	0.047	10.
151	21.32	21.32	121.8	15.15	0.932	0.047	10.
152	21.48	21.48	122.0	15.14	0.928	0.048	10.
153	21.64	21.64	122.2	15.14	0.924	0.048	10.
154	21.81	21.81	122.4	15.13	0.921	0.048	10.
155	21.96	21.96	122.5	15.13	0.917	0.048	10.
156	22.12	22.12	122.7	15.12	0.913	0.049	10.
157	22.28	22.28	122.8	15.12	0.909	0.049	10.
158	22.43	22.43	122.9	15.11	0.905	0.049	10.
159	22.58	22.58	123.0	15.11	0.902	0.050	10.
160	22.73	22.73	123.1	15.10	0.898	0.050	10.
161	22.87	22.87	123.2	15.09	0.894	0.050	10.
162	23.01	23.01	123.3	15.09	0.890	0.050	10.
163	23.15	23.15	123.4	15.08	0.887	0.051	10.
164	23.29	23.29	123.5	15.07	0.883	0.051	10.
165	23.43	23.43	123.5	15.06	0.879	0.051	10.
166	23.56	23.56	123.6	15.06	0.875	0.052	10.
167	23.69	23.69	123.6	15.05	0.872	0.052	10.
168	23.82	23.82	123.7	15.04	0.868	0.052	10.

169	23.94	23.94	123.7	15.03	0.864	0.052	10.
170	24.07	24.07	123.7	15.02	0.861	0.053	10.
171	24.19	24.19	123.7	15.01	0.857	0.053	10.
172	24.30	24.30	123.7	15.00	0.853	0.053	10.
173	24.42	24.42	123.7	14.99	0.850	0.054	10.
174	24.53	24.53	123.7	14.98	0.846	0.054	10.
175	24.64	24.64	123.6	14.97	0.843	0.054	10.
176	24.74	24.74	123.6	14.96	0.839	0.054	10.
177	24.85	24.85	123.5	14.95	0.835	0.055	10.
178	24.95	24.95	123.5	14.94	0.832	0.055	10.
179	25.05	25.05	123.4	14.93	0.828	0.055	10.
180	25.14	25.14	123.3	14.91	0.825	0.056	10.
181	25.23	25.23	123.2	14.90	0.821	0.056	10.
182	25.32	25.32	123.1	14.89	0.818	0.056	10.
183	25.41	25.41	123.0	14.88	0.814	0.056	10.
184	25.49	25.49	122.9	14.87	0.811	0.057	10.
185	25.57	25.57	122.8	14.85	0.808	0.057	10.
186	25.65	25.65	122.7	14.84	0.804	0.057	10.
187	25.72	25.72	122.5	14.83	0.801	0.057	10.
188	25.79	25.79	122.4	14.81	0.797	0.058	10.
189	25.86	25.86	122.2	14.80	0.794	0.058	10.
190	25.93	25.93	122.0	14.78	0.791	0.058	10.
191	25.99	25.99	121.9	14.77	0.788	0.058	10.
192	26.05	26.05	121.7	14.75	0.784	0.059	10.
193	26.11	26.11	121.5	14.74	0.781	0.059	10.
194	26.16	26.16	121.3	14.72	0.778	0.059	10.
195	26.21	26.21	121.1	14.71	0.775	0.059	10.
196	26.26	26.26	120.8	14.69	0.772	0.060	10.
197	26.30	26.30	120.6	14.68	0.769	0.060	10.
198	26.34	26.34	120.4	14.66	0.766	0.060	10.
199	26.38	26.38	120.1	14.65	0.763	0.060	10.
200	26.41	26.41	119.8	14.63	0.760	0.061	10.
201	26.45	26.45	119.6	14.61	0.757	0.061	10.
202	26.47	26.47	119.3	14.60	0.754	0.061	10.
203	26.50	26.50	119.0	14.58	0.751	0.061	10.
204	26.52	26.52	118.7	14.56	0.748	0.061	10.
205	26.54	26.54	118.4	14.54	0.745	0.062	10.
206	26.56	26.56	118.1	14.53	0.742	0.062	10.
207	26.57	26.57	117.8	14.51	0.739	0.062	10.
208	26.58	26.58	117.4	14.49	0.737	0.062	10.
209	26.59	26.59	117.1	14.47	0.734	0.062	10.
210	26.59	26.59	116.7	14.45	0.731	0.062	10.
211	26.59	26.59	116.4	14.43	0.729	0.063	10.
212	26.59	26.59	116.0	14.42	0.726	0.063	10.
213	26.58	26.58	115.6	14.40	0.724	0.063	10.
214	26.57	26.57	115.2	14.38	0.721	0.063	10.
215	26.56	26.56	114.8	14.36	0.719	0.063	10.
216	26.54	26.54	114.4	14.34	0.716	0.063	10.
217	26.53	26.53	114.0	14.32	0.714	0.063	10.
218	26.51	26.51	113.6	14.30	0.711	0.064	10.
219	26.48	26.48	113.2	14.28	0.709	0.064	10.
220	26.45	26.45	112.7	14.26	0.707	0.064	10.
221	26.42	26.42	112.3	14.24	0.704	0.064	10.
222	26.39	26.39	111.8	14.22	0.702	0.064	10.
223	26.35	26.35	111.4	14.20	0.700	0.064	10.
224	26.31	26.31	110.9	14.17	0.698	0.064	10.
225	26.27	26.27	110.4	14.15	0.695	0.064	10.
226	26.22	26.22	109.9	14.13	0.693	0.064	10.
227	26.18	26.18	109.4	14.11	0.691	0.064	10.
228	26.12	26.12	108.9	14.09	0.689	0.064	10.
229	26.07	26.07	108.4	14.07	0.687	0.064	10.
230	26.01	26.01	107.9	14.04	0.685	0.064	10.

231	25.95	25.95	107.4	14.02	0.683	0.064	10.
232	25.89	25.89	106.8	14.00	0.681	0.064	10.
233	25.82	25.82	106.3	13.98	0.680	0.064	10.
234	25.75	25.75	105.7	13.95	0.678	0.064	10.
235	25.68	25.68	105.2	13.93	0.676	0.064	10.
236	25.60	25.60	104.6	13.91	0.674	0.064	10.
237	25.52	25.52	104.0	13.89	0.672	0.064	10.
238	25.44	25.44	103.4	13.86	0.671	0.064	10.
239	25.36	25.36	102.8	13.84	0.669	0.064	10.
240	25.27	25.27	102.3	13.82	0.667	0.064	10.
241	25.18	25.18	101.7	13.79	0.666	0.064	10.
242	25.09	25.09	101.0	13.77	0.664	0.064	10.
243	24.99	24.99	100.4	13.74	0.663	0.064	10.
244	24.90	24.90	99.8	13.72	0.661	0.064	10.
245	24.80	24.80	99.2	13.70	0.660	0.064	10.
246	24.69	24.69	98.5	13.67	0.658	0.064	10.
247	24.59	24.59	97.9	13.65	0.657	0.064	10.
248	24.48	24.48	97.3	13.62	0.656	0.063	10.
249	24.37	24.37	96.6	13.60	0.654	0.063	10.
250	24.25	24.25	95.9	13.57	0.653	0.063	10.
251	24.14	24.14	95.3	13.55	0.652	0.063	10.
252	24.02	24.02	94.6	13.52	0.650	0.063	10.
253	23.90	23.90	93.9	13.50	0.649	0.063	10.
254	23.77	23.77	93.3	13.47	0.648	0.063	10.
255	23.65	23.65	92.6	13.45	0.647	0.062	10.
256	23.52	23.52	91.9	13.42	0.646	0.062	10.
257	23.39	23.39	91.2	13.39	0.645	0.062	10.
258	23.25	23.25	90.5	13.37	0.644	0.062	10.
259	23.12	23.12	89.8	13.34	0.643	0.062	10.
260	22.98	22.98	89.1	13.32	0.642	0.061	10.
261	22.84	22.84	88.4	13.29	0.641	0.061	10.
262	22.70	22.70	87.7	13.26	0.640	0.061	10.
263	22.55	22.55	87.0	13.24	0.639	0.061	10.
264	22.41	22.41	86.3	13.21	0.638	0.060	10.
265	22.26	22.26	85.6	13.19	0.637	0.060	10.
266	22.11	22.11	84.9	13.16	0.636	0.060	10.
267	21.95	21.95	84.1	13.13	0.635	0.060	10.
268	21.80	21.80	83.4	13.11	0.634	0.059	10.
269	21.64	21.64	82.7	13.08	0.634	0.059	10.
270	21.48	21.48	82.0	13.05	0.633	0.059	10.
271	21.32	21.32	81.3	13.02	0.632	0.058	10.
272	21.16	21.16	80.5	13.00	0.631	0.058	10.
273	21.00	21.00	79.8	12.97	0.631	0.058	10.
274	20.83	20.83	79.1	12.94	0.630	0.057	10.
275	20.66	20.66	78.4	12.92	0.629	0.057	10.
276	20.49	20.49	77.7	12.89	0.628	0.057	10.
277	20.32	20.32	76.9	12.86	0.628	0.056	10.
278	20.15	20.15	76.2	12.83	0.627	0.056	10.
279	19.97	19.97	75.5	12.81	0.627	0.056	10.
280	19.80	19.80	74.8	12.78	0.626	0.055	10.
281	19.62	19.62	74.1	12.75	0.625	0.055	10.
282	19.44	19.44	73.4	12.72	0.625	0.055	10.
283	19.26	19.26	72.7	12.69	0.624	0.054	10.
284	19.08	19.08	71.9	12.67	0.624	0.054	10.
285	18.90	18.90	71.2	12.64	0.623	0.053	10.
286	18.71	18.71	70.5	12.61	0.622	0.053	10.
287	18.53	18.53	69.8	12.58	0.622	0.053	10.
288	18.34	18.34	69.2	12.55	0.621	0.052	10.
289	18.16	18.16	68.5	12.53	0.621	0.052	10.
290	17.97	17.97	67.8	12.50	0.620	0.051	10.
291	17.78	17.78	67.1	12.47	0.620	0.051	10.
292	17.59	17.59	66.4	12.44	0.619	0.051	10.

293	17.40	17.40	65.8	12.41	0.619	0.050	10.
294	17.21	17.21	65.1	12.38	0.618	0.050	10.
295	17.01	17.01	64.4	12.36	0.618	0.049	10.
296	16.82	16.82	63.8	12.33	0.617	0.049	10.
297	16.63	16.63	63.1	12.30	0.617	0.048	10.
298	16.43	16.43	62.5	12.27	0.616	0.048	10.
299	16.24	16.24	61.9	12.24	0.616	0.048	10.
300	16.04	16.04	61.3	12.21	0.615	0.047	10.
301	15.85	15.85	60.6	12.18	0.615	0.047	10.
302	15.65	15.65	60.0	12.16	0.614	0.046	10.
303	15.45	15.45	59.4	12.13	0.613	0.046	10.
304	15.26	15.26	58.8	12.10	0.613	0.045	10.
305	15.06	15.06	58.2	12.07	0.612	0.045	10.
306	14.86	14.86	57.7	12.04	0.612	0.045	10.
307	14.67	14.67	57.1	12.01	0.611	0.044	10.
308	14.47	14.47	56.5	11.98	0.610	0.044	10.
309	14.27	14.27	56.0	11.95	0.610	0.043	10.
310	14.08	14.08	55.4	11.93	0.609	0.043	10.
311	13.88	13.88	54.9	11.90	0.608	0.042	10.
312	13.68	13.68	54.4	11.87	0.608	0.042	10.
313	13.49	13.49	53.9	11.84	0.607	0.042	10.
314	13.29	13.29	53.4	11.81	0.606	0.041	10.
315	13.10	13.10	52.9	11.78	0.606	0.041	10.
316	12.90	12.90	52.4	11.75	0.605	0.040	10.
317	12.71	12.71	51.9	11.72	0.604	0.040	10.
318	12.52	12.52	51.5	11.69	0.603	0.040	10.
319	12.33	12.33	51.0	11.67	0.602	0.039	10.
320	12.13	12.13	50.6	11.64	0.601	0.039	10.
321	11.94	11.94	50.1	11.61	0.600	0.039	10.
322	11.75	11.75	49.7	11.58	0.599	0.038	10.
323	11.57	11.57	49.3	11.55	0.598	0.038	10.
324	11.38	11.38	48.9	11.52	0.597	0.038	10.
325	11.19	11.19	48.5	11.49	0.596	0.037	10.
326	11.01	11.01	48.1	11.46	0.595	0.037	10.
327	10.82	10.82	47.8	11.44	0.594	0.037	10.
328	10.64	10.64	47.4	11.41	0.593	0.036	10.
329	10.46	10.46	47.1	11.38	0.591	0.036	10.
330	10.28	10.28	46.8	11.35	0.590	0.036	10.
331	10.10	10.10	46.5	11.32	0.589	0.036	10.
332	9.93	9.93	46.2	11.29	0.587	0.035	10.
333	9.76	9.76	45.9	11.26	0.586	0.035	10.
334	9.58	9.58	45.6	11.24	0.584	0.035	10.
335	9.41	9.41	45.3	11.21	0.583	0.035	10.
336	9.25	9.25	45.1	11.18	0.581	0.035	10.
337	9.08	9.08	44.8	11.15	0.580	0.035	10.
338	8.92	8.92	44.6	11.12	0.578	0.035	10.
339	8.76	8.76	44.4	11.09	0.576	0.034	10.
340	8.60	8.60	44.2	11.07	0.574	0.034	10.
341	8.44	8.44	44.0	11.04	0.572	0.034	10.
342	8.29	8.29	43.9	11.01	0.570	0.034	10.
343	8.14	8.14	43.7	10.98	0.568	0.034	10.
344	7.99	7.99	43.5	10.95	0.566	0.034	10.
345	7.84	7.84	43.4	10.93	0.564	0.034	10.
346	7.70	7.70	43.3	10.90	0.562	0.034	10.
347	7.56	7.56	43.2	10.87	0.559	0.034	10.
348	7.42	7.42	43.1	10.84	0.557	0.034	10.
349	7.29	7.29	43.0	10.81	0.555	0.035	10.
350	7.16	7.16	42.9	10.79	0.552	0.035	10.
351	7.03	7.03	42.9	10.76	0.549	0.035	10.
352	6.91	6.91	42.8	10.73	0.547	0.035	10.
353	6.79	6.79	42.8	10.70	0.544	0.035	10.
354	6.67	6.67	42.8	10.68	0.541	0.036	10.



355	6.56	6.56	42.8	10.65	0.538	0.036	10.
356	6.45	6.45	42.8	10.62	0.535	0.036	10.
357	6.35	6.35	42.8	10.60	0.532	0.037	10.
358	6.25	6.25	42.9	10.57	0.528	0.037	10.
359	6.15	6.15	42.9	10.54	0.525	0.038	10.
360	6.06	6.06	43.0	10.51	0.521	0.038	10.
361	5.97	5.97	43.1	10.49	0.518	0.039	10.
362	5.88	5.88	43.2	10.46	0.514	0.039	10.
363	5.81	5.81	43.3	10.43	0.510	0.040	10.
364	5.73	5.73	43.4	10.41	0.506	0.040	10.
365	5.66	5.66	43.5	10.38	0.502	0.041	10.

Total Production Values (gC/m3/y):

				0					
Primary producers:	0.341E-01	0.529		0.491	0.516	0.157E-01	0.302E-02		
Pelagic consumers:	0.240E-01	0.139		0.602E-01	0.940E-03	0.550E-09	0.868E-01	-0.219E-02	
Benthic consumers:	0.188E-03	-0.178E-03		0.284E-04					

Maximum Daily Biomass Values (gC/m3):

				0					
Primary producers:	0.249E-01	0.147		0.135	0.146	0.871E-02	0.414E-02		
Pelagic consumers:	0.196E-01	0.357E-01		0.370E-01	0.770E-03	0.999E-09	0.140	0.300E-01	
Benthic consumers:	0.410E-01	0.130E-01		0.540E-02					