Summary of Measurements of Primary Productivity Made During MARMAP Surveys (Belogorsk 78-01, 78-03, 78-04)

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INTRODUCTION

Phytoplankton primary productivity was measured during three cooperative U.S.-U.S.S.R. MARMAP surveys of coastal waters between Cape Hatteras and Nova Scotia aboard the R. V. Belogorsk (78-01, 78-03, 78-04). Table 1 gives the dates of the three surveys and the number ofe stations where primary productivity was measured. Figures 1, 2, and 3 depict the cruise tracks and locations of stations sampled during these surveys. During the first survey (1 August - 4 September 1978, Belogorsk 78-01), primary production was measured at 44 stations extending from Nova Scotia south to Cape Hatteras. On the second survey (6 October - 1 November 1978, Belogorsk 78-03), primary production was measured at 42 stations from the Gulf of Maine to just south of Delaware Bay. The third survey (16 November - 29 November 1978, Belogorsk 78-04) was abbreviated. Productivity was measured at 24 stations from the Gulf of Maine to the eastern tip of Long Island.

Measurements of phytoplankton productivity were made in conjunction with measurements of chlorophyll a (Evans et al., 1979), nutrients (Draxler et al., 1979), temperature, salinity, dissolved oxygen, water transparency (Secchi disc and submersible photometer), daily photosynthetically active radiation, and collections of zooplankton, ichthyoplankton and phytoplankton.

METHODS

The details of the method used to measure primary productivity are given in a separate report (O'Reilly and Thomas, 1979) which describes submersible photometry, water sampling, ^{14}C incubations, filter fractionation, and calculations of daily rates of primary productivity ($gC/m^2/d$). Six to seven depths were sampled throughout the euphotic layer. During Belogorsk surveys 78-03 and 78-04 a submersible quantum photometer was used to determine the vertical extinction of photosynthetically active radiation (400-700 nanometers) as well as sampling depths corresponding to 100%, 69%, 46%, 25%, 10%, 3%, and 1% of subsurface light intensity. During the August survey (78-01) the submersible photometer did not operate properly. Consequently, Secchi disc disappearance-depths were used with the equation: ($K = 1.7/\text{Secchi depth}$) to estimate sampling depths.

Duplicate "light bottles" and one "dark bottle" were filled with seawater from each sampling depth. Zooplankton larger than 300 microns were removed from productivity bottles during filling. Approximately 15 uCi-^{14}C were added to each productivity sample. Alkalinity and pH were measured at surface and at the 10% light-depth.

Measurements of primary productivity were usually made at two stations each day of the cruise. Incubations lasted five hours with morning stations ending and afternoon stations commencing at approximately 1200 Eastern Standard Time ($\sim$ local solar noon).

Following incubation under ambient light, the organic ^{14}C activity in productivity samples was filter-fractionated into netplankton (>20 microns), nannoplankton (<20 microns) and dissolved organic matter (<0.45 micron) released by phytoplankton. Rates of production for each size fraction ($mgC/m^3/d$) and daily integral rates of production ($mgC/m^2/d$) were calculated using our computer program PP1074 (O'Reilly and Thomas, 1979).

RESULTS

Average daily rates ($mgC/m^3/d$) of netplankton productivity, nannoplankton productivity, release of dissolved organic matter (DOM), and total productivity are given according to date, station, samplinge depth, and percent light intensity in Tables 2, 3, and 4 (78-01, 78-03,e 78-04, respectively). The percent of total carbon production bye nannoplankton, netplankton and percent of released DOM is also given in these tables. Tables 2, 3, and 4 represent the output ("Section D") from our computer program PP1074 (O'Reilly and Thomas, 1979). Vertical profiles of productivity versus depth (percent light intensity) can be derived from these tables.

Many of the vertical profiles of total productivity in August (31 of 44) and October (37 of 42) indicate considerably less production at 100% light intensity than at 69% intensity, and may reflect "sunlight inhibition" of surface water productivity. During October, water samples for both the 100% and 69% sunlight incubations were frequently taken from the surface (1 m) Niskin bottle. Even though biomass was identical in both treatments, in 24 of 29 cases, considerably less

total productivity was measured at 100% intensity than at 69% intensity. During August and October, maximum total production frequently occurred at depths corresponding to 46% and 25% of surface light intensity (Table 2, Table 3). During the November survey, rates of total production progressively decreased with decreasing light intensity (Table 4). Maximum production usually occurred at 100% or 69% light intensity.

Daily integral rates of productivity ($mgC/m^2/day$) measured during the three surveys are given in Tables 5, 6, and 7 according to sampling date and station number. Secchi depth, percent light-depths, euphotic depth, incubation time, daily photosynthetically active radiation ($Einsteins/m^2/d$), PAR factor, and percent of total daily carbon production in netplankton, nannoplankton and DOM size fractions are also given in Tables 5, 6, and 7. These tables represent the output ("Section E") from our computer program PP1074.

The distribution of integral total daily productivity ($gC/m^2/d$), euphotic depth, percent of particulate production by nannoplankton, and euphotic percent extracellular release of DOM are depicted for each cruise in Figures 4, 5, 6, 7, 8, and 9.

In August, rates of total daily primary production ($gC/m^2/d$) were relatively high throughout the entire survey area. Daily production ranged between 0.6 and 3.7 $gC/m^2/d$. Productivity wase greater than 1 $gC/m^2/day$ at 37 of 44 stations. Values weree uniformly higher than $1gC/m^2/day$ from Nova Scotia to southerne Delaware Bay, whereas south of Delaware, in waters off Maryland,e Virginia and North Carolina, production was lowest with all valuese

less than 1gC/m^2/day. Total daily primary production exceeded 3gC/m^2/day at three stations: one at the eastern tip of Long Island, a second south of Nantucket approaching the 200 m contour, and the third in the mid-western area of Georges Bank (Figure 4).

During October, total daily production throughout the survey area was also relatively high. Daily production ranged between 0.9 and 4.2 gC/m^2/d with maxima of 4.1 and 4.2 gC/m^2/day recorded at stations in the New York Bight and the eastern half of Georges Bank (Figure 6). Productivity was greater than 1 gC/m^2/d at 40 of the 42 stations and greater than 2gC/m^2/d at 17 of the 42 stations.

During the November survey, productivity was relatively low. Daily production ranged between 0.2 and 2.3 gC/m^2/d (Figure 8). Only 5 of the 24 stations surveyed produced more than 1gC/m^2/d (Figure 8). Highest production was observed over Georges Bank (>2gC/m^2/d).

Nannoplankton (less than 20 microns) were responsible for the majority of carbon produced during the August (78-01), October (78-03) and November (78-04) surveys (Figures 5, 7, and 9).

In August, netplankton species (greater than 20 microns) dominated over nannoplankton at only 2 stations (off the Delaware and Chesapeake estuaries). During the October survey, netplankton outproduced nannoplankton at only 9 of the 42 stations (off the New Jersey coast, one the central portion of Georges Bank, and in the northern portionse of the Gulf of Maine) (Figure 7). In November (78-04), nannoplanktone were the dominant photosynthesizers at 19 of 24 stations (Figure 9).e

The dissolved organic carbon compounds (DOM) released by phytoplankton during photosynthesis are usually not measured when employing the ^{14}C method to measure productivity. Consequently, ^{14}C measurementss reflect only particulate synthesis and are underestimates of total carbon photoassimilation. Our three MARMAP surveys of coastal waters demonstrate that the DOM fraction represents a significant portion of total production, and should be routinely measured. Euphotic percent extracellular release of DOM (EPER = Integral DOM release, $mgC/m^2/d$ ÷ integral total productivity, $mgC/m^2/d$) during August ranged between 5% and 44% of total production and averaged 19% (Figure 5).s

In October, EPER ranged between 1 and 35% and averaged 9% (Figure 7). In November, EPER ranged between 4% and 33% and averaged 12% of total daily carbon productivity (Figure 9).

Our observations confirm earlier descriptions of Georges Bank and the New York Bight as regions of high productivity. Our observations also indicate that primary productivity of the Northwest Atlantic Continental Shelf may be higher than expected.

ACKNOWLEDGEMENTS

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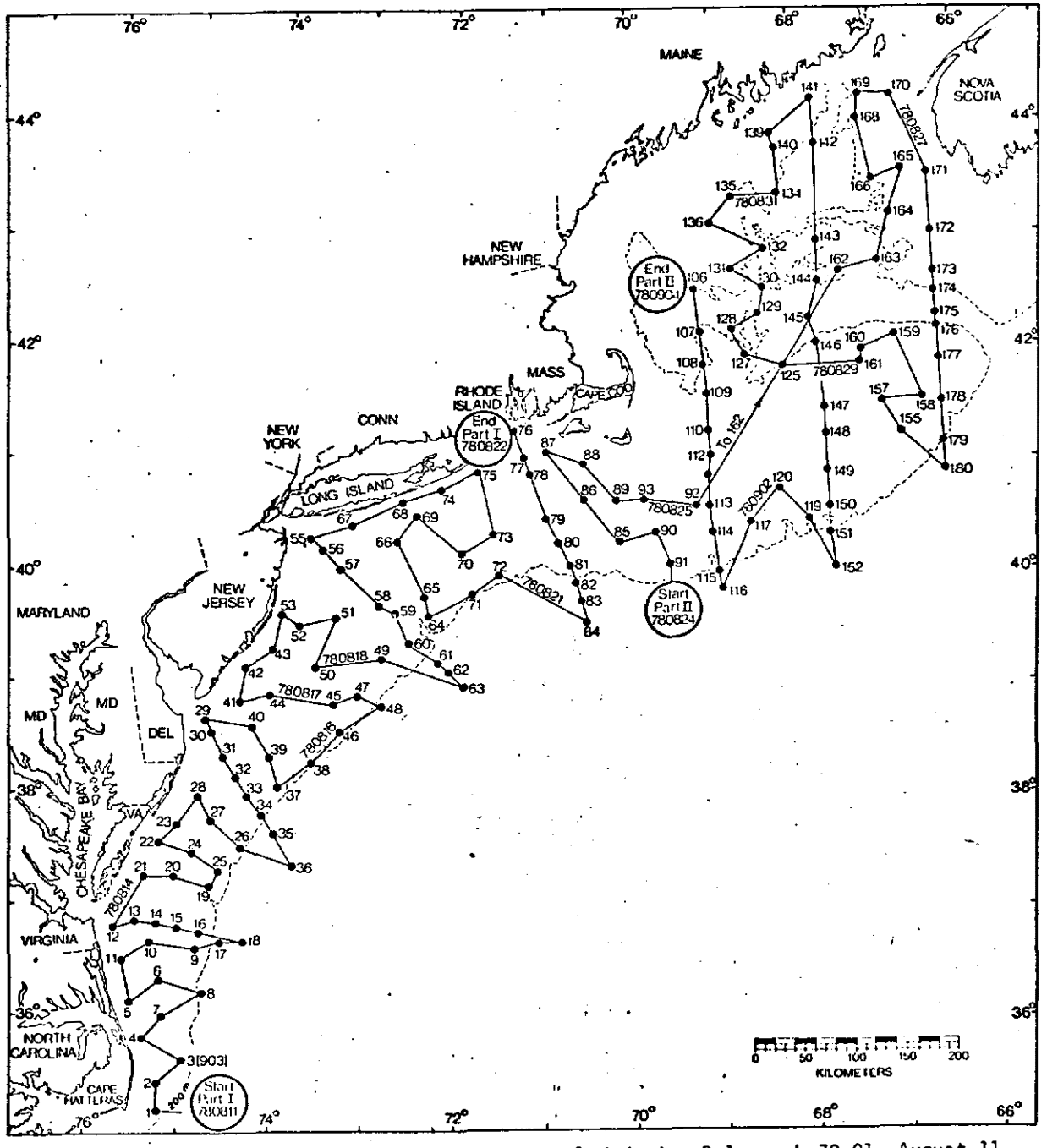


Figure 1. Cruise track and station location sampled during Belogorsk 78-01, August 11-September 4, 1978.

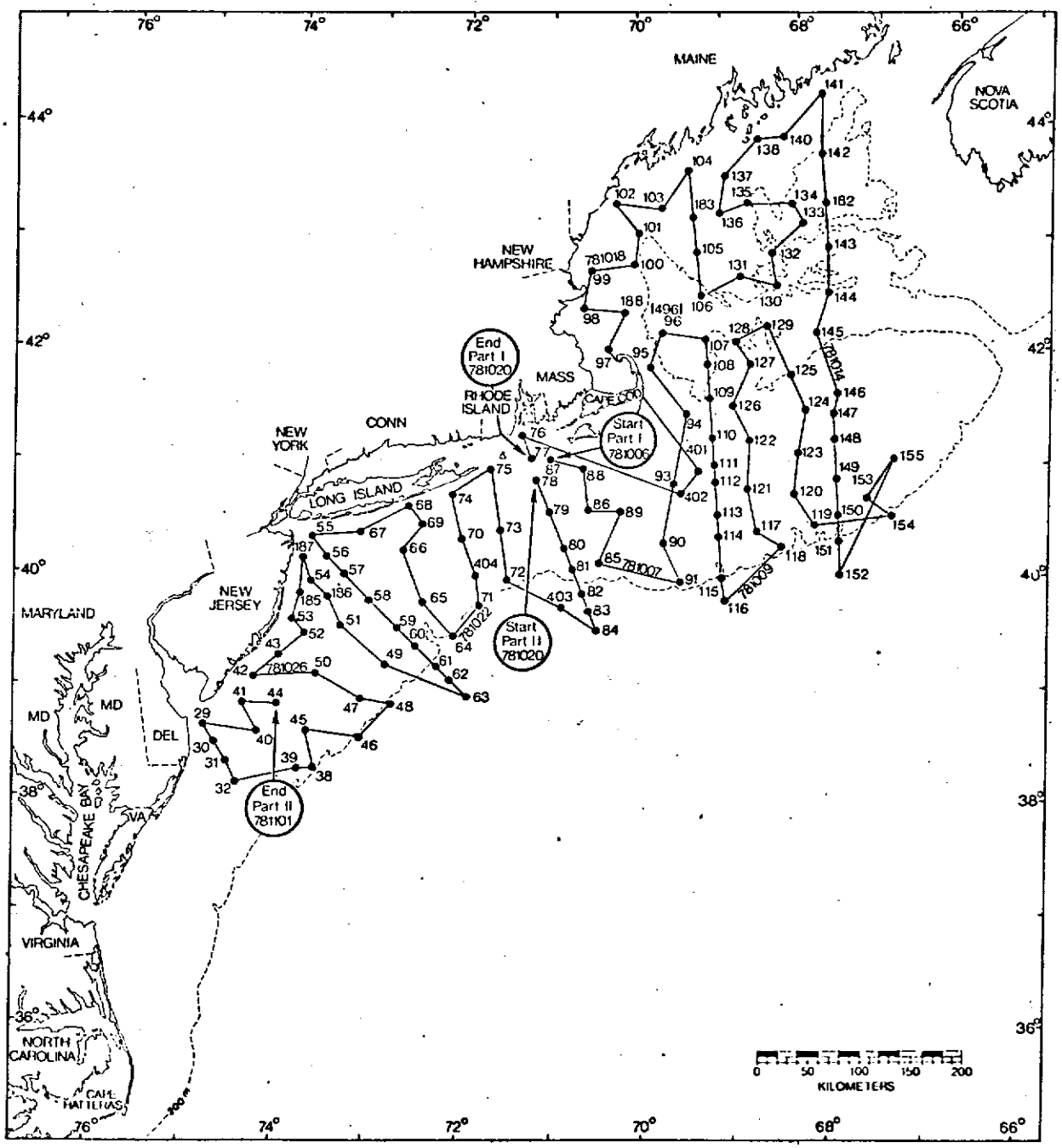


Figure 2. Cruise track and station location sampled during Belogorsk 78-03, October 6-November 1, 1978.

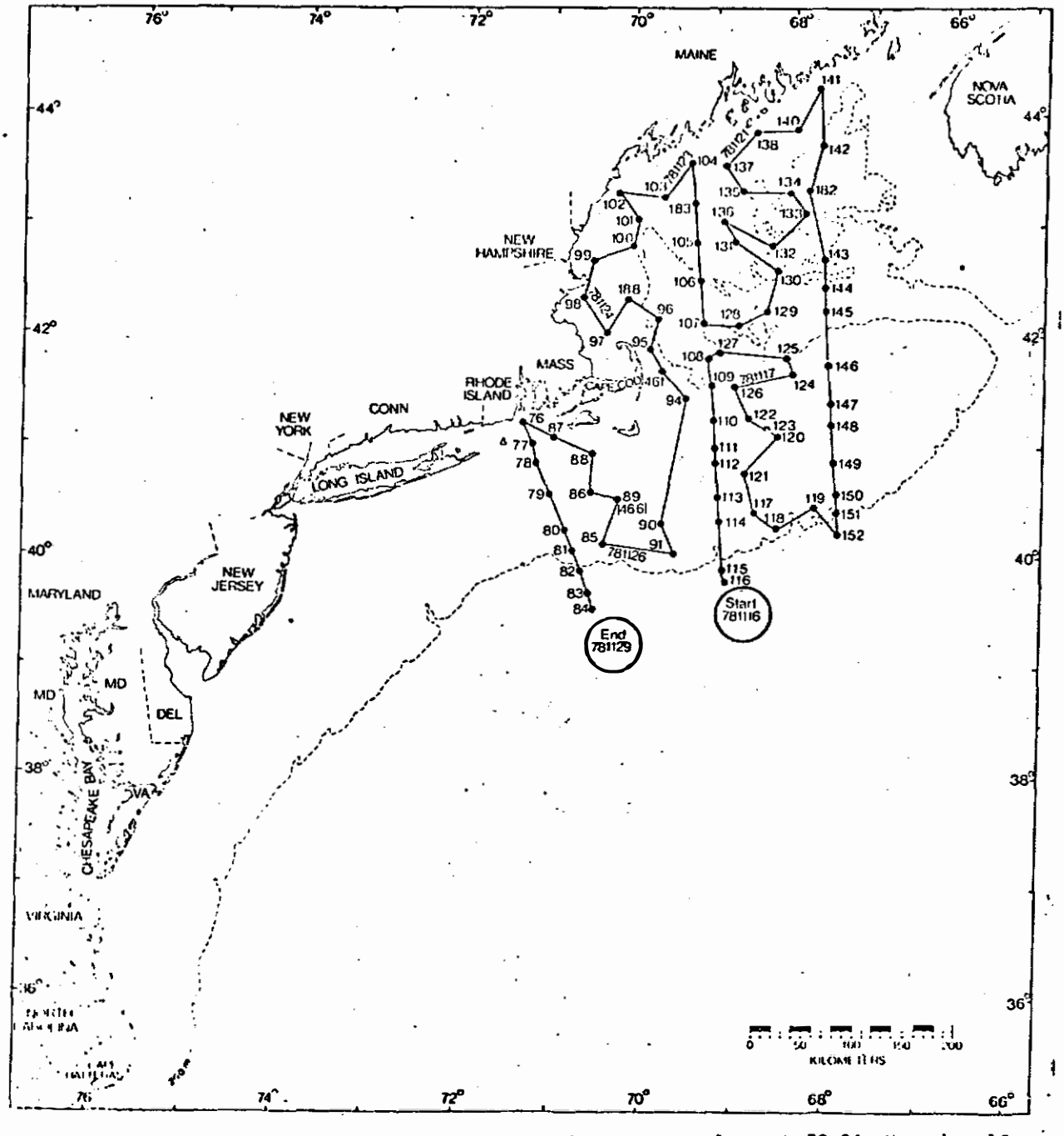
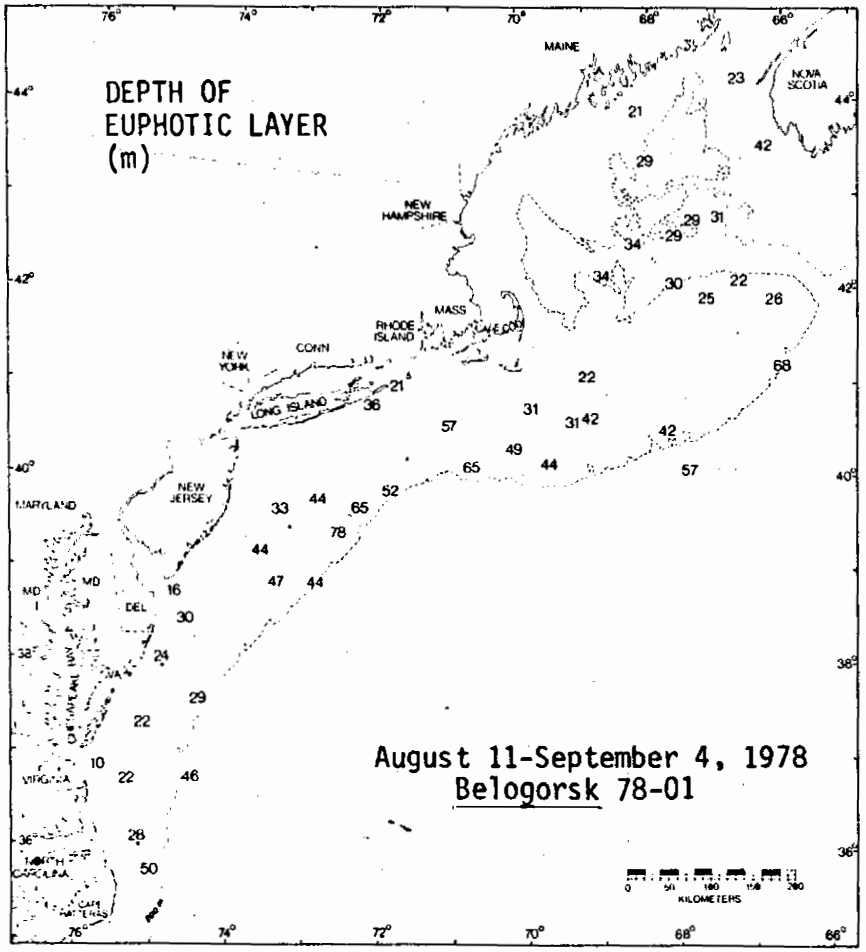


Figure 3. Cruise track and station location sampled during Belogorsk 78-04, November 16-November 29, 1978.


DEPTH OF
EUPHOTIC LAYER
(m)
August 11-September 4, 1978
Belogorsk 78-01
MAINE
NOVA SCOTIA
NEW HAMPSHIRE
MASS
RHODE ISLAND
CONN
NEW YORK
LONG ISLAND
NEW JERSEY
MARYLAND
MD
DEL
VIRGINIA
NORTH CAROLINA
CAPE HATTERAS
KILOMETERS

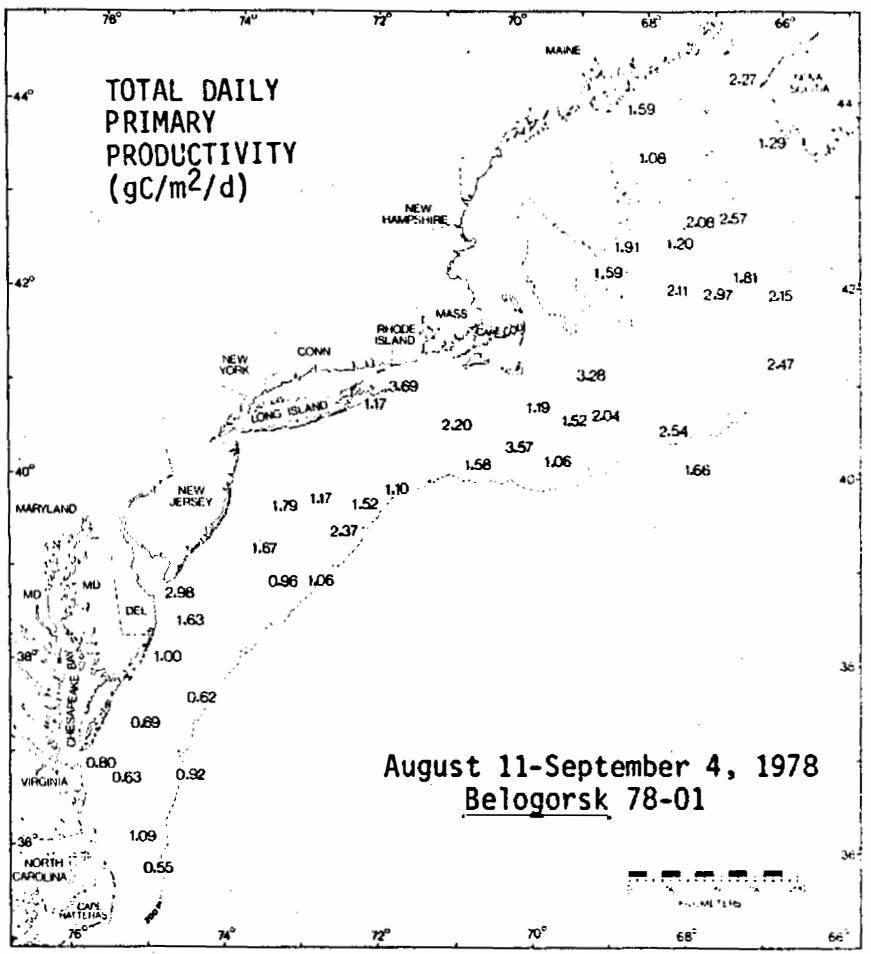
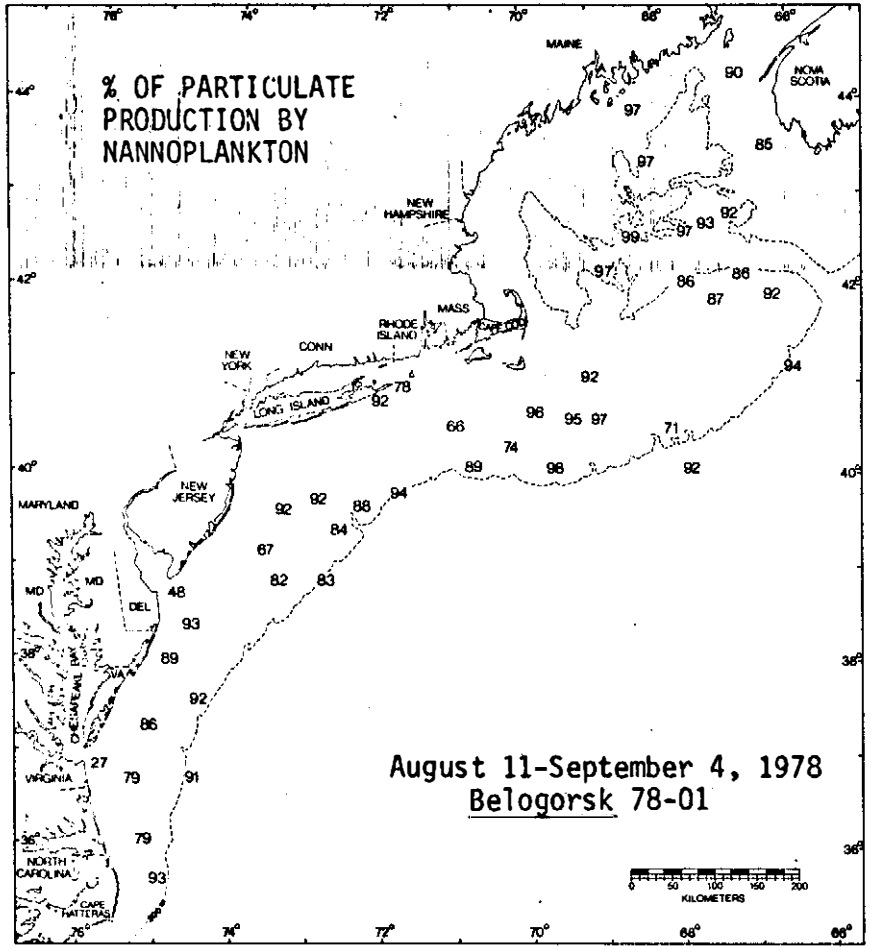

TOTAL DAILY
PRIMARY
PRODUCTIVITY
(gC/m²/d)
August 11-September 4, 1978
Belogorsk 78-01
MAINE
NOVA SCOTIA
NEW HAMPSHIRE
MASS
RHODE ISLAND
CONN
NEW YORK
LONG ISLAND
NEW JERSEY
MARYLAND
MD
DEL
CHESAPEAKE BAY
VIRGINIA
NORTH CAROLINA
CAPE HATTERAS

FIGURE 4.


% OF PARTICULATE
PRODUCTION BY
NANNOPLANKTON
August 11-September 4, 1978
Belogorsk 78-01
KILOMETERS

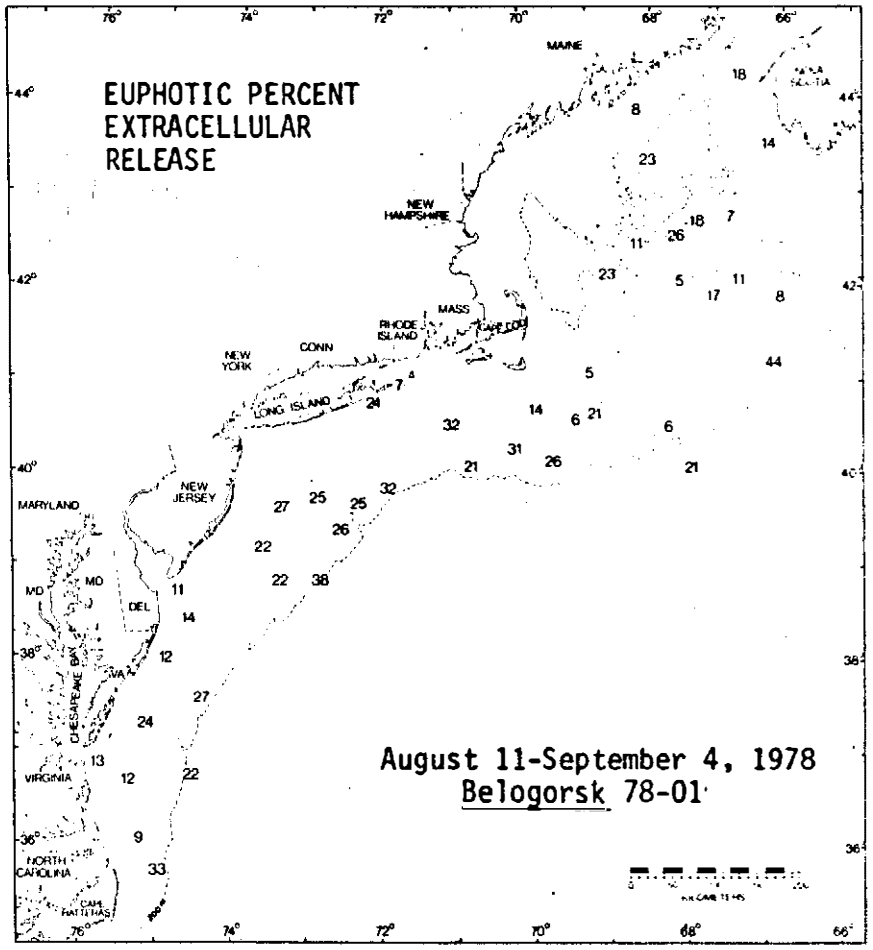
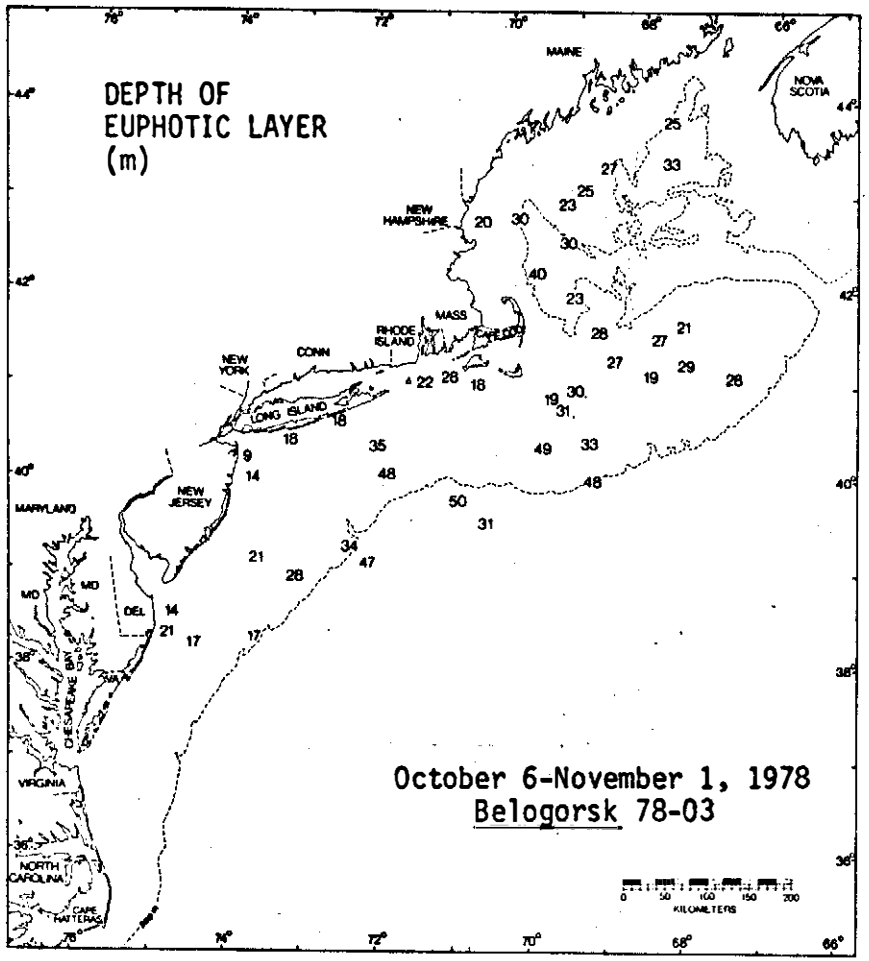

EUPHOTIC PERCENT
EXTRACELLULAR
RELEASE
August 11-September 4, 1978
Belogorsk 78-01

FIGURE 5.


DEPTH OF
EUPHOTIC LAYER
(m)
October 6-November 1, 1978
Belogorsk 78-03

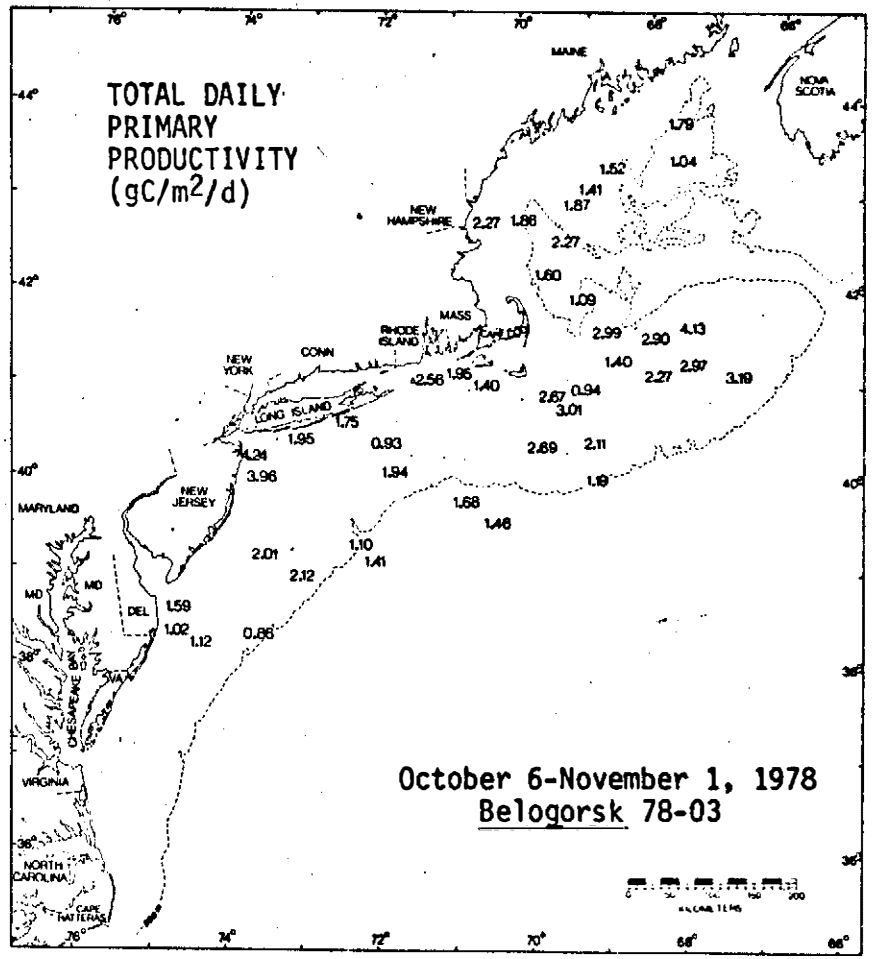
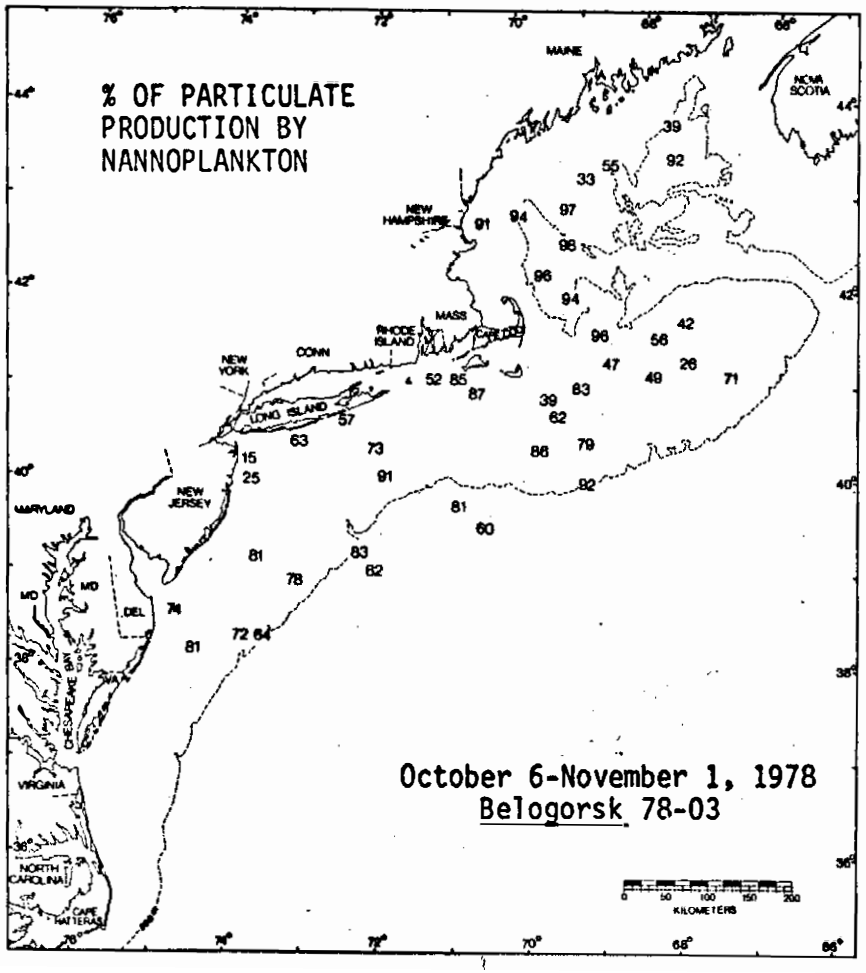

TOTAL DAILY
PRIMARY
PRODUCTIVITY
(gC/m2/d)
October 6-November 1, 1978
Belogorsk 78-03

FIGURE 6.


% OF PARTICULATE
PRODUCTION BY
NANNOPLANKTON
October 6-November 1, 1978
Belogorsk 78-03
KILOMETERS

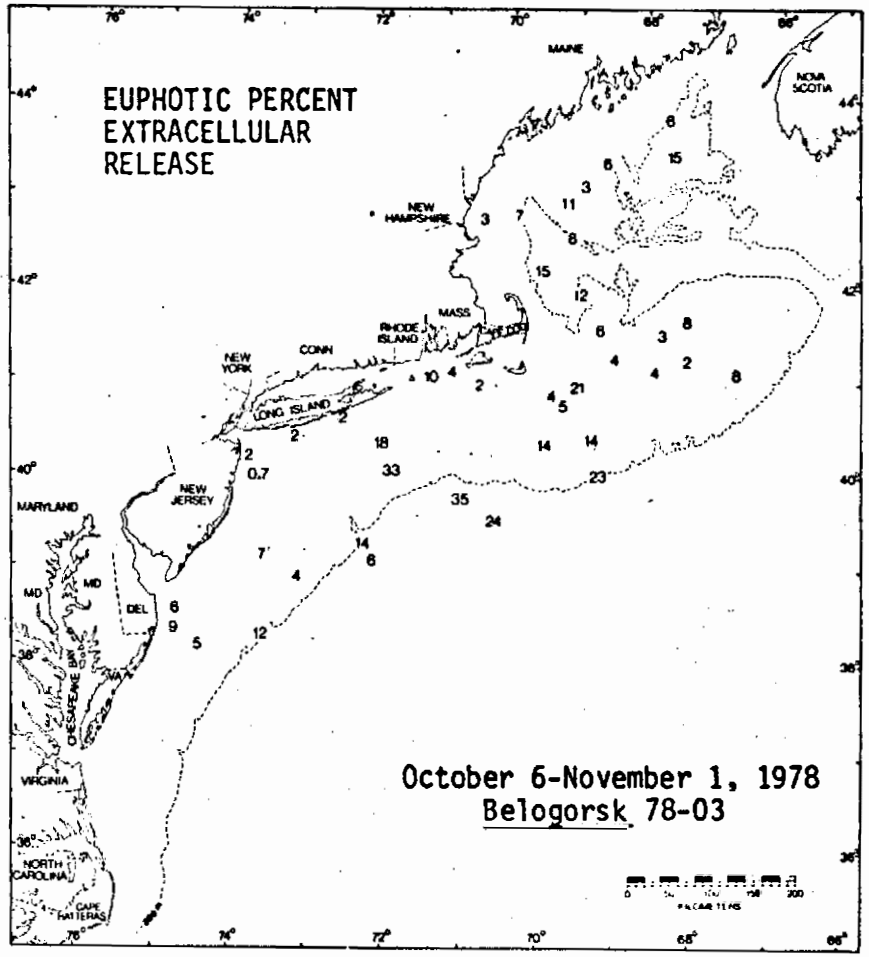
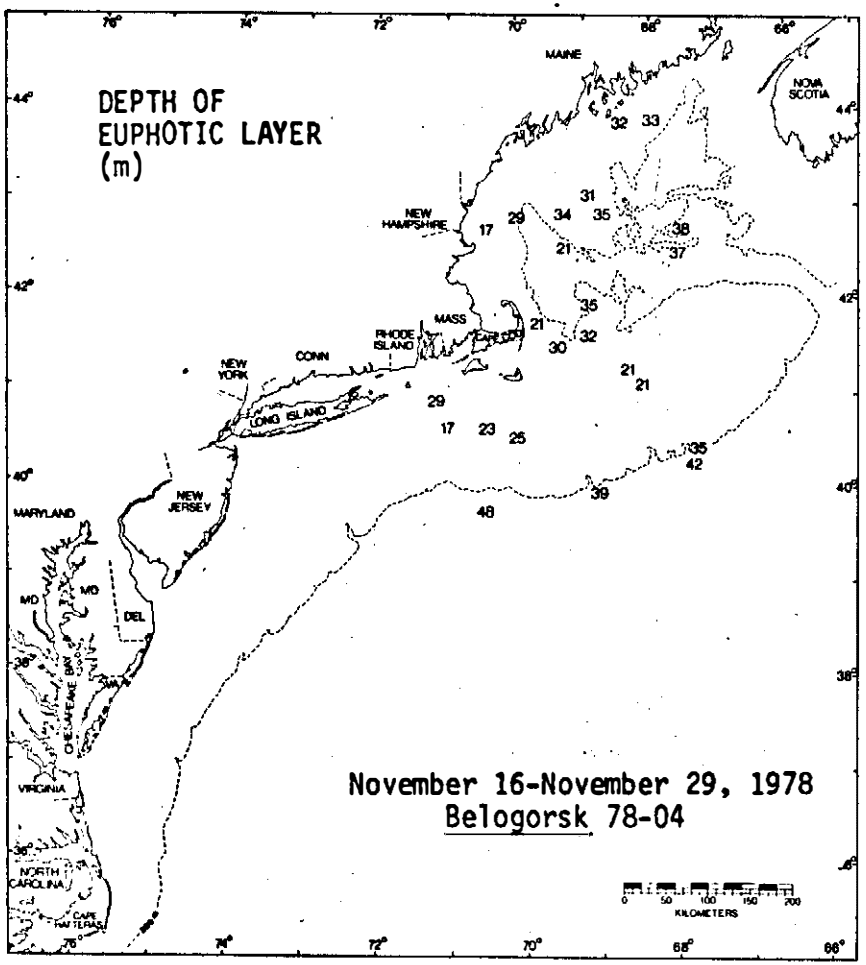

EUPHOTIC PERCENT
EXTRACELLULAR
RELEASE
October 6-November 1, 1978
Belogorsk 78-03

FIGURE 7.


DEPTH OF
EUPHOTIC LAYER
(m)
November 16-November 29, 1978
Belogorsk 78-04
MAINE
NOVA SCOTIA
NEW HAMPSHIRE
MASS
RHODE ISLAND
CONN
NEW YORK
LONG ISLAND
NEW JERSEY
MARYLAND
DEL
VIRGINIA
NORTH CAROLINA
CAPE HATTERAS
KILOMETERS

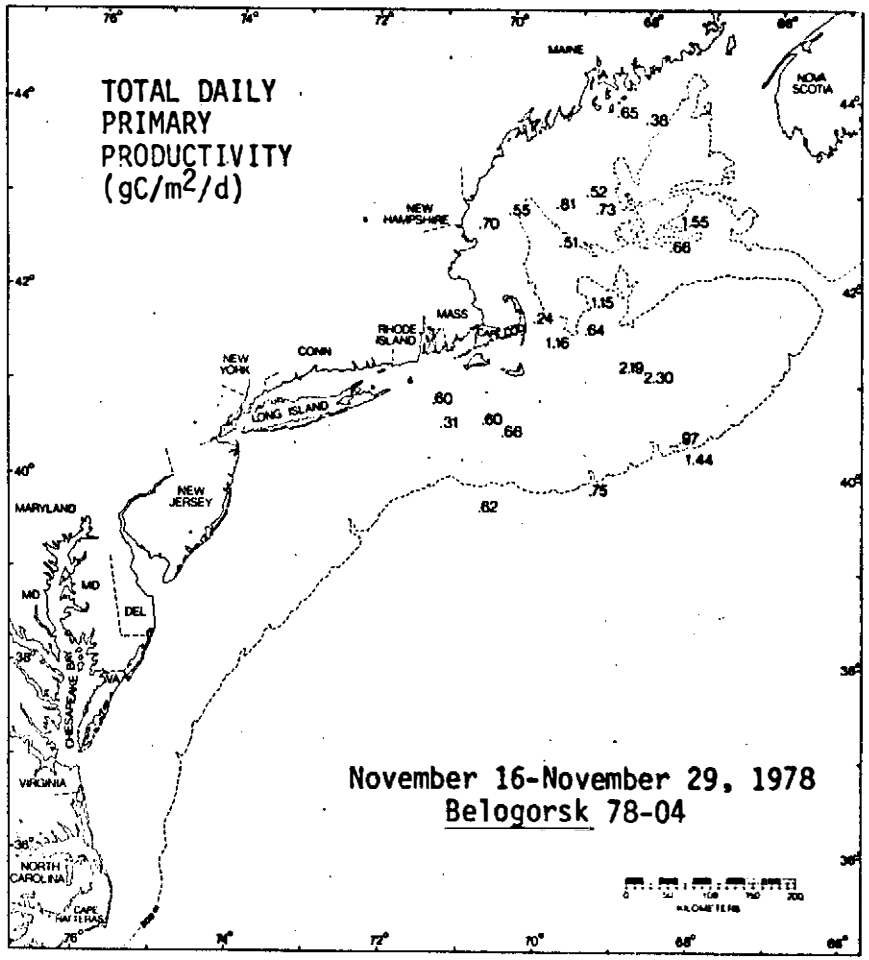
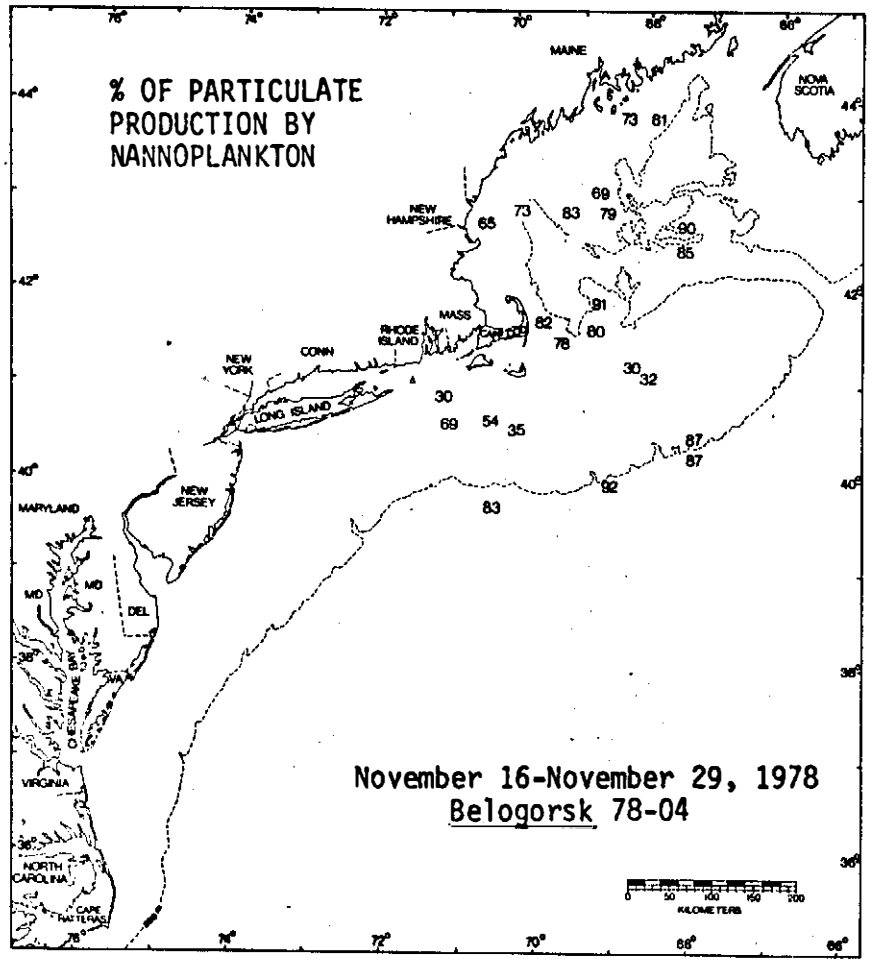

TOTAL DAILY
PRIMARY
PRODUCTIVITY
(gC/m2/d)
November 16-November 29, 1978
Belogorsk 78-04
MAINE
NOVA SCOTIA
NEW HAMPSHIRE
MASS
RHODE ISLAND
CONN
NEW YORK
LONG ISLAND
NEW JERSEY
MARYLAND
DEL
VIRGINIA
NORTH CAROLINA
CAPE HATTERAS

FIGURE 8.


% OF PARTICULATE
PRODUCTION BY
NANNOPLANKTON
November 16-November 29, 1978
Belogorsk 78-04

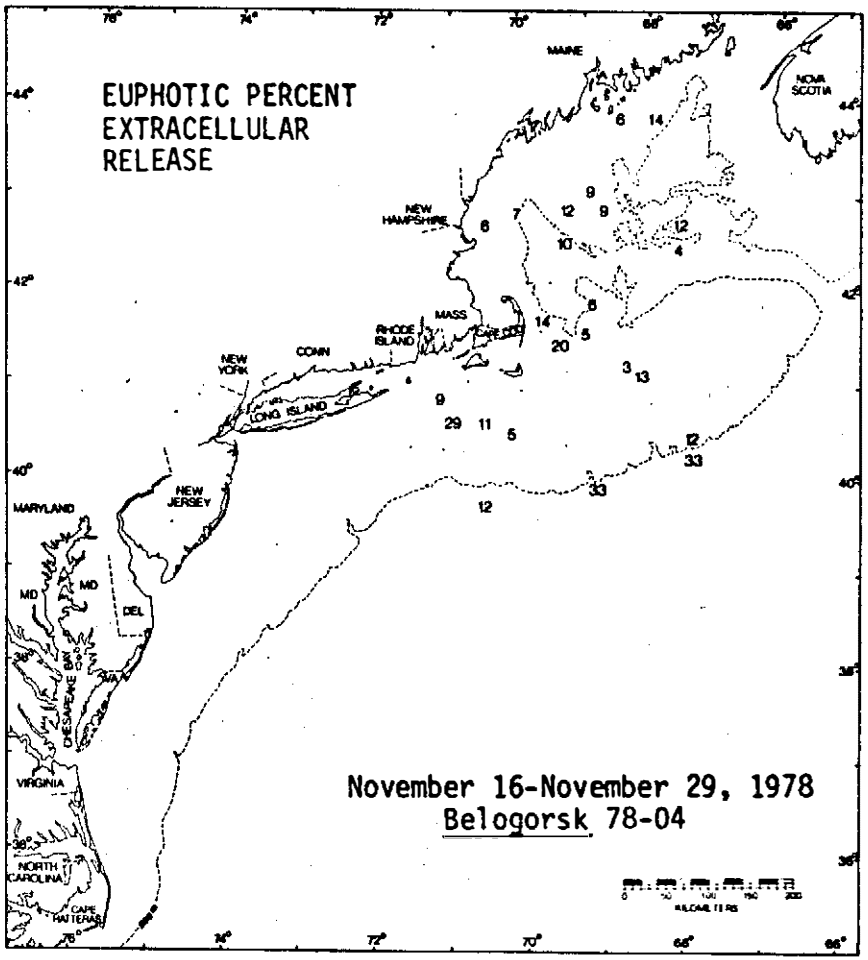

EUPHOTIC PERCENT
EXTRACELLULAR
RELEASE
November 16-November 29, 1978
Belogorsk 78-04

FIGURE 9.

Table 1. Dates of MARMAP Surveys

Cruise	Dates	# of Productivity Stations
Belogorsk 78-01	Aug. 11-Sept. 4, 1978	44
Belogorsk 78-03	Oct. 6-Nov. 1, 1978	42
Belogorsk 78-04	Nov. 16-Nov. 29, 1978	24

Table 2.

			NET	NAA OH PPP	DOM	TPP	SUM	% NET	% NAA OH PPP	% DOM	NAA/NET
78080120810	3	1AA1	0.8090	4.4181	6.3200	0.0	11.5471	7.0081	38.2615	54.7323	5.4612
78080120810	3	5BB1	0.1311	4.1962	5.4400	0.0	9.7273	1.3478	42.7272	55.9251	31.7025
78080120810	3	12CC1	0.2651	5.1107	4.4670	0.0	9.8428	2.6933	51.9232	49.3834	19.2784
78080120810	3	20DD1	1.1486	12.3684	0.9133	0.0	14.4303	7.9506	85.7113	6.3290	10.7682
78080120810	3	33EE1	0.5820	7.0628	3.7756	0.0	11.9204	4.5241	63.9611	31.5148	14.1380
78080120810	3	50FF1	0.2553	2.2298	3.8465	0.0	6.3320	4.0382	35.2148	60.7470	8.7204
78080120810	3	50GG1	0.1666	1.5073	3.0266	0.0	4.7607	3.5037	32.9216	63.5747	9.0963
78080121320	7	1AA1	13.3118	42.3644	5.4035	0.0	61.5037	22.2943	68.9136	8.7922	3.0911
78080121320	7	5BB1	12.8837	37.6554	5.3788	0.0	56.9179	23.0404	67.3405	9.6191	2.9227
78080121320	7	10CC1	7.4482	35.9983	7.9651	0.0	51.4116	14.4874	70.0198	15.4928	4.8332
78080121320	7	15DD1	5.1946	32.6093	2.6200	0.0	40.4239	12.8503	80.6684	6.4813	6.2775
78080121320	7	25EE1	4.7323	12.3800	0.2466	0.0	17.3589	27.2615	71.3179	1.4206	2.6161
78080121320	7	30FF1	3.1553	5.7461	1.2780	0.0	10.1804	30.9978	56.4428	12.5594	1.8209
78080121320	7	30GG1	0.3484	1.4069	0.4184	0.0	2.0307	28.4485	55.7608	15.7905	1.9600
78080130715	10	1AA1	7.7031	28.0516	6.5296	0.0	42.2803	18.2191	66.3467	15.4341	3.6416
78080130715	10	3BB1	7.6498	32.0247	5.3532	0.0	45.0277	16.9881	71.1222	11.8887	4.1863
78080130715	10	5CC1	4.9817	25.6630	6.4003	0.0	36.9250	12.9227	69.5003	17.5770	5.1562
78080130715	10	10DD1	4.3844	24.0166	2.7014	0.0	31.1024	14.0967	75.2178	8.6855	5.4777
78080130715	10	13EE1	8.7301	21.9722	3.1186	0.0	33.8209	25.8259	64.9548	9.2193	2.5151
78080130715	10	20FF1	3.2887	8.7322	1.0908	0.0	13.1917	25.0059	66.7001	8.2940	2.6674
78080130715	10	22GG1	0.7201	2.5428	0.1342	0.0	3.4031	21.3364	74.7201	3.9435	3.5320
78080131425	17	1AA1	3.7263	31.6439	11.6527	0.0	49.0229	7.9248	67.2947	24.7800	8.4920
78080131425	17	2BB1	5.0961	30.5485	18.2977	0.0	53.9423	9.4473	56.6318	33.9209	5.9945
78080131425	17	5CC1	3.2246	20.2870	5.2235	0.0	36.7151	8.7828	76.9901	14.2271	8.7060
78080131425	17	12DD1	1.8183	27.1113	2.0191	0.0	30.9487	5.8752	87.6008	6.5240	14.9102
78080131425	17	20EE1	0.4579	12.3693	3.7871	0.0	16.6343	2.7527	74.4805	22.7668	27.0588
78080131425	17	35FF1	0.9508	3.2302	4.2575	0.0	8.4385	11.2674	38.2793	50.4533	3.3983
78080131425	17	46GG1	0.2209	1.6809	1.7323	0.0	3.6341	6.0765	46.2535	47.6699	7.6063
78080140715	12	1AA1	65.6133	10.8725	10.6209	0.0	83.1127	75.3200	12.4810	12.1990	0.1657
78080140715	12	1BB1	121.5963	24.3528	12.3853	0.0	158.3344	76.7931	15.3806	7.8222	0.2003
78080140715	12	2CC1	41.3419	7.6384	10.2061	0.0	59.4264	69.5883	13.2574	17.1744	0.1906
78080140715	12	4DD1	79.9830	26.6570	5.1704	0.0	112.0104	71.4068	23.9772	4.6160	0.3358
78080140715	12	5EE1	55.3908	32.9959	23.9803	0.0	112.3750	49.2910	29.3623	21.3466	0.5957
78080140715	12	6FF1	19.2960	11.5111	5.4853	0.0	36.2828	53.1676	31.7173	15.1151	0.5966
78080140715	12	7GG1	5.6784	4.0391	0.9310	0.0	10.6485	53.3258	37.9312	8.7430	0.7113
78080141240	20	1AA1	3.3029	47.0116	9.1695	0.0	59.4840	6.1835	78.5044	15.3121	12.8059
78080141240	20	2BB1	3.8906	34.0157	9.1106	0.0	49.0169	8.2740	72.3478	19.3773	8.7430
78080141240	20	3CC1	3.2075	28.4083	12.5178	0.0	44.1336	7.2677	64.3692	28.3631	8.8568
78080141240	20	7DD1	3.0693	32.1795	9.6666	0.0	45.1354	6.8002	71.7386	21.4612	10.5445
78080141240	20	13EE1	4.0880	17.3695	6.2155	0.0	27.6730	14.7725	62.7669	22.4605	4.2489
78080141240	20	20FF1	2.6243	2.8934	4.7123	0.0	10.4104	27.1334	27.8012	45.2653	1.0172
78080141240	20	22GG1	0.8219	0.9359	0.9647	0.0	2.7225	30.1892	34.3765	35.4343	1.1387
78080150735	28	1AA1	1.2072	33.0578	3.4706	0.0	38.7356	3.1991	87.6037	9.1972	27.3839
78080150735	28	1BB1	2.1425	42.0374	1.7408	0.0	45.9207	4.6657	91.5435	3.7909	19.6207
78080150735	28	3CC1	1.3469	31.9363	3.6829	0.0	36.9661	3.6436	86.3835	9.9620	23.7110
78080150735	28	6DD1	2.8201	35.8581	6.9165	0.0	45.5948	6.1852	78.6453	15.1695	12.7152
78080150735	28	15EE1	6.2530	31.9033	4.7484	0.0	42.9047	14.5742	74.3585	11.0673	5.1021
78080150735	28	18FF1	1.3483	14.7024	1.3740	0.0	17.8247	7.5605	82.4833	7.7086	8.4095
78080150735	28	20GG1	0.5930	1.6658	2.7117	0.0	5.1705	11.4688	36.0858	52.4456	3.1464
78080151245	26	1AA1	3.4219	30.0369	14.0940	0.0	47.5528	7.1960	63.1654	29.6386	8.7758
78080151245	26	3BB1	3.7583	28.6522	8.3007	0.0	40.7112	9.2316	70.3792	20.3892	7.6237
78080151245	26	6CC1	1.1869	17.9739	6.3639	0.0	25.5247	4.6500	70.4177	24.9323	15.1436
78080151245	26	12DD1	0.7690	19.2791	4.3636	0.0	24.4117	3.1501	78.9749	17.8750	25.0703
78080151245	26	17EE1	0.6814	11.3426	6.6709	0.0	18.6409	3.6331	60.8827	35.8802	17.0841
78080151245	26	24FF1	0.6204	5.2031	5.0490	0.0	10.9325	5.6748	48.1418	46.1834	8.4834
78080151245	26	29GG1	0.2834	0.6415	0.6926	0.0	1.6175	17.5209	39.6600	42.8192	2.2636
78080160725	31	1AA1	1.3118	31.3364	4.7879	0.0	37.8061	3.4698	83.9452	12.5850	24.1930
78080160725	31	5BB1	1.4099	26.7850	5.4086	0.0	33.6035	4.1957	79.7090	16.0954	18.9978

Table 2 (continued).

			NET	NAN GR PPP	DOM	TPP 2	SUP	% NET	% NAN GR PPP	% DOM	NAN/NET
7808180725	31	11CC1	4.4313	35.2923	4.4031	0.0	44.1867	10.0286	79.8709	10.1005	7.9643
7808180725	31	20DD1	3.5807	56.9284	13.3196	0.0	73.8287	4.8500	77.1088	18.0412	15.8987
7808180725	31	30EE1	3.7428	93.5966	6.6254	0.0	83.9250	5.8550	83.7807	10.3643	14.3093
7808180725	31	30FF1	1.3099	23.5750	4.0558	0.0	28.9407	4.9262	81.4597	14.0142	17.9976
7808180725	31	30GG1	0.4369	8.2568	1.9118	0.0	10.6052	4.1197	77.8961	18.0242	18.8986
7808181122	29	1AA1	19.5564	77.3341	0.7334	0.0	97.6239	20.0324	79.2168	0.7513	3.9544
7808181122	29	2BB1	52.9281	99.3922	5.4877	0.0	157.8080	33.5396	62.9830	3.4775	1.8779
7808181122	29	4CC1	78.7746	93.3587	12.7392	0.0	184.8745	42.6108	50.4984	6.8907	1.1851
7808181122	29	7DD1	117.1730	117.2087	34.5327	0.0	268.9744	43.5629	43.5984	12.8387	1.0006
7808181122	29	12EE1	118.5601	61.5454	27.4366	0.0	207.5421	57.1258	29.6544	13.2198	0.5191
7808181122	29	16FF1	36.5746	15.6617	7.3030	0.0	59.5393	61.4087	26.3296	12.2617	0.4268
7808181122	29	16GG1	5.7256	3.7335	0.5393	0.0	9.9984	57.2652	37.3410	5.3939	0.6521
7808170740	48	1AA1	1.0593	8.2789	5.0410	0.0	14.9792	7.0718	55.2693	37.6589	7.8156
7808170740	48	4BB1	1.7671	10.3428	10.4302	0.0	22.5401	7.8398	45.8862	46.2740	5.8530
7808170740	48	8CC1	2.6791	16.9756	14.3970	0.0	34.0517	7.8677	49.8524	42.2799	6.3363
7808170740	48	13DD1	5.3274	30.0493	25.0366	0.0	60.4133	8.8188	49.7395	41.4422	5.6405
7808170740	48	22EE1	1.9358	11.5465	5.9270	0.0	19.4093	9.9736	59.4895	30.5389	5.9647
7808170740	48	34FF1	2.8359	5.8821	3.6291	0.0	12.3471	22.9681	47.6395	29.3923	2.0742
7808170740	48	44GG1	0.1472	0.5879	1.1894	0.0	1.9245	7.6487	30.5482	61.8031	3.9939
7808171245	45	1AA1	1.8254	12.8890	7.6508	0.0	22.3652	8.1618	57.6297	34.2085	7.0804
7808171245	45	4BB1	1.6313	18.7212	6.1150	0.0	26.4675	6.1634	70.7328	23.1038	11.4762
7808171245	45	9CC1	2.5158	25.4843	5.8725	0.0	33.8726	7.4272	75.2357	17.3370	10.1297
7808171245	45	14DD1	4.8841	19.0748	7.1122	0.0	30.8711	15.1731	61.7885	23.0384	4.0722
7808171245	45	23EE1	0.9447	5.7419	2.1734	0.0	8.8600	10.6625	64.8070	24.5305	6.0780
7808171245	45	36FF1	5.4770	13.7854	4.7867	0.0	24.0491	22.7742	57.3219	19.9039	2.5170
7808171245	45	47GG1	0.5487	1.9910	1.8978	0.0	4.4375	12.3651	44.8676	42.7673	3.6286
7808180747	51	1AA1	2.0581	53.5331	6.0037	0.0	61.5929	3.3382	86.9144	9.7476	26.0062
7808180747	51	3BB1	2.1817	55.7076	6.9191	0.0	64.8084	3.3622	85.9747	10.6631	25.5707
7808180747	51	7CC1	2.0740	55.0744	15.8685	0.0	72.6169	2.8561	75.8428	21.8015	26.5547
7808180747	51	12DD1	3.2995	53.8531	15.1133	0.0	72.2659	4.5658	74.5208	20.9135	16.3210
7808180747	51	20EE1	1.7068	33.6932	25.4982	0.0	60.9382	2.8005	55.2908	41.8427	19.2885
7808180747	51	30FF1	6.2732	7.0918	6.2668	0.0	19.6318	31.9543	36.1241	31.9217	1.1305
7808180747	51	33GG1	2.5048	2.7830	4.5940	0.0	9.8778	25.3174	28.1743	46.5083	1.1128
7808181147	50	1AA1	0.8536	31.6503	2.9872	0.0	35.4911	2.4051	89.1781	8.4168	37.0784
7808181147	50	4BB1	0.8231	34.6828	3.7196	0.0	39.2255	2.0988	88.4191	9.4826	42.1368
7808181147	50	8CC1	0.8523	34.8713	1.0485	0.0	36.7721	2.3178	94.8309	2.8513	40.9143
7808181147	50	13DD1	1.0314	27.8776	8.9978	0.0	37.8068	2.7238	73.8202	23.8561	27.0269
7808181147	50	22EE1	0.3090	18.6735	11.0962	0.0	30.0787	1.0273	62.0822	36.8906	60.4320
7808181147	50	34FF1	32.7531	9.1887	12.7108	0.0	54.6526	59.9296	16.8129	23.2574	0.2805
7808181147	50	44GG1	9.2791	2.2965	5.2251	0.0	16.8007	55.2305	13.6691	31.1005	0.2475
7808190755	60	1AA1	2.4397	16.1735	6.0097	0.0	24.6229	9.9083	65.6888	24.4070	6.6293
7808190755	60	6BB1	4.2626	23.9875	7.2848	0.0	35.5349	11.9955	67.5041	20.5004	5.6274
7808190755	60	13CC1	2.8099	9.0801	5.3092	0.0	17.1782	16.3515	52.7419	30.9066	3.2255
7808190755	60	24DD1	4.4079	14.3749	8.2468	0.0	27.0296	16.3077	53.1821	30.5103	3.2612
7808190755	60	39EE1	7.8659	52.9692	16.5383	0.0	77.3334	10.1714	68.4429	21.3857	6.7289
7808190755	60	59FF1	0.9436	2.8181	3.2437	0.0	7.0052	13.4671	40.2287	46.3042	2.9872
7808190755	60	76GG1	0.5040	0.5272	2.7483	0.0	3.7795	13.3351	13.9489	72.7160	1.0460
7808191250	56	1AA1	1.7435	30.8940	5.1736	0.0	37.8120	4.6110	81.7086	13.6804	17.7200
7808191250	56	4BB1	1.5554	36.7513	8.2273	0.0	46.5340	3.3425	78.9773	17.6802	23.6282
7808191250	56	8CC1	1.6625	38.4953	8.5481	0.0	48.7059	3.5595	78.1385	18.3020	21.9521
7808191250	56	13DD1	2.0571	25.1829	11.4678	0.0	38.6678	5.3199	69.0228	29.6572	12.2225
7808191250	56	22EE1	1.6726	19.8365	6.4076	0.0	28.1167	6.6601	70.5506	22.7893	10.5930
7808191250	56	34FF1	1.6831	3.5964	4.8387	0.0	10.1182	16.6344	35.5439	47.8217	2.1368
7808191250	56	48GG1	0.4217	0.2335	2.4133	0.0	23.0685	13.7429	7.8096	78.6476	0.5537
7808200747	74	1AA1	2.0676	41.6539	6.7870	0.0	50.5093	4.0935	82.4878	13.4387	20.1460
7808200747	74	3BB1	2.3210	45.3686	7.7749	0.0	55.4645	4.1847	81.7975	14.0178	19.5470
7808200747	74	6CC1	1.9049	44.3512	8.9260	0.0	54.7821	3.4772	80.9593	15.5635	23.2827
7808200747	84	11DD1	1.3289	33.8015	6.6391	0.0	41.7675	3.1709	80.9278	15.8954	25.4740

Table 2 (continued)

			NET	NAN ON PPP	OCP	TPP	BUP	% NET	% NAN ON PPP	% OUR	NAN/NET
7808200747	74	18EE1	1.6158	14.8583	10.8838	0.0	26.7379	3.7991	55.5702	40.6307	14.6272
7808200747	74	28FF1	3.7440	10.1507	6.7979	0.0	20.6926	18.0934	49.0947	32.8518	2.7118
7808200747	74	38GG1	1.4479	3.5353	4.3428	0.0	9.3258	15.5257	37.9088.	46.5654	2.4417
7808201150	75	1AA1	40.2120	199.3302	20.0242.	0.0	259.5671	15.4923	76.7933.	7.7184	4.9569
7808201150	75	2BB1	38.3393	229.6375	13.3114	0.0	281.2878	13.6299	81.6379	4.7323	5.9896
7808201150	75	4CC1	49.6083	407.7168	23.4880	0.0	480.7307	10.3193	84.8119	4.8688	8.2187
7808201150	75	6DD1	85.4423	252.0514	22.0162	0.0	359.5098	23.7663	70.1097	6.1239	2.9500
7808201150	75	10EE1	48.1308	55.2938	15.3421	0.0	118.7747	40.5295	46.5535	12.9170	1.1488
7808201150	75	16FF1	1.6424	6.1544	3.6036	0.0	11.4004	14.4065	53.9841	31.6094	3.7472
7808201150	75	21GG1	0.7366	1.4416	1.8802	0.0	4.0584	18.1500	35.5214	46.3286	1.9571
7808210748	64	1AA1	2.0827	25.4293	7.7707	0.0	35.2827	5.9029	72.0730	22.0241	12.2098
7808210748	64	5BB1	2.2186	30.3456	6.2303	0.0	38.7947	5.7188	78.2215	16.0597	13.6779
7808210748	64	11CC1	4.0057	33.9651	14.6438	0.0	52.6146	7.6133	64.5548	27.8322	8.4792
7808210748	64	20DD1	2.7660	25.7685	12.8190	0.0	41.3535	6.6899	62.3280	30.9821	9.3167
7808210748	64	33EE1	2.2874	11.1384	4.6361	0.0	18.0419	12.5674	61.7363	25.6963	4.9124
7808210748	64	50FF1	1.7032	3.9665	0.8947	0.0	6.5644	25.9480	60.4244	13.6296	2.3289
7808210748	64	65GG1	0.4707	1.2963	0.1706	0.0	1.9466	24.1806	66.5930	9.2263	2.7540
7808211207	71	1AA1	1.1659	23.5553	5.0597	0.0	29.7809	3.9160	79.0954	16.9887	20.2035
7808211207	71	4BB1	1.3355	21.6292	6.0699	0.0	29.0346	4.5982	74.6691	20.7027	16.3453
7808211207	71	9CC1	1.5979	21.4916	11.1724	0.0	34.2619	4.6638	62.7274	32.6088	13.4499
7808211207	71	16DD1	1.5681	24.5715	15.2617	0.0	41.4013	3.7876	59.3496	36.8629	15.6696
7808211207	71	28EE1	0.8328	15.7260	6.5420	0.0	23.1008	3.6051	68.0756	28.3194	18.8833
7808211207	71	40FF1	0.3981	2.2721	2.5030	0.0	5.1732	7.6954	43.9206	48.3840	5.7074
7808211207	71	52GG1	0.2012	0.5584	1.4966	0.0	2.2562	8.9176	24.7496	66.3327	2.7753
7808220747	81	1AA1	3.0770	15.7463	4.7520	0.0	23.5753	13.0518	66.7815	20.1567	5.1174
7808220747	81	5BB1	3.3142	16.8259	9.6801	0.0	31.8202	10.4813	58.9050	30.4137	5.4200
7808220747	81	11CC1	3.7000	19.2092	10.3217	0.0	33.2909	11.1142	57.6813	31.0046	5.2079
7808220747	81	20DD1	2.4702	23.9096	5.0162	0.0	30.4960	8.1001	75.4512	16.4487	9.3188
7808220747	81	33EE1	2.9881	26.1081	5.6946	0.0	34.7908	8.5888	75.0431	16.3681	8.7374
7808220747	81	50FF1	0.7975	10.3615	2.4659	0.0	13.6249	5.8533	76.0483	18.0985	12.9928
7808220747	81	65GG1	0.3408	1.7933	2.1488	0.0	4.2829	7.9572	41.8712	50.1716	5.2620
7808221245	79	1AA1	9.8602	20.2523	9.1952	0.0	38.9077	24.3145	52.0522	23.6334	2.1408
7808221245	79	5BB1	14.0632	24.4416	10.2507	0.0	48.7555	28.8443	50.1310	21.0247	1.7380
7808221245	79	10CC1	12.3471	27.4737	20.7392	0.0	60.5600	20.3882	45.3661	34.2457	2.2251
7808221245	79	17DD1	2.4785	22.5636	17.1821	0.0	42.2442	5.8671	53.4596	40.6733	9.1118
7808221245	79	29EE1	10.1274	24.6064	12.6605	0.0	47.5943	21.2786	52.1205	26.6009	2.4294
7808221245	79	44FF1	13.2415	7.1013	10.1139	0.0	30.4567	43.4765	23.3161	33.2075	0.5363
7808221245	79	57GG1	0.1131	0.9513	2.8625	0.0	3.9269	2.8801	24.2252	72.8946	8.4111
7808240726	91	1AA1	0.6256	17.1123	6.3813	0.0	24.1192	2.5938	70.9489	26.4574	27.3534
7808240726	91	4BB1	0.4313	19.2187	6.6906	0.0	26.3406	1.6374	72.9623	25.4003	44.5509
7808240726	91	8CC1	0.2717	20.0742	6.7980	0.0	27.1439	1.0010	73.9548	25.0443	73.8837
7808240726	91	13DD1	0.3047	25.3706	9.0881	0.0	34.7634	0.8765	72.9808	26.1427	83.2642
7808240726	91	22EE1	0.3249	26.4116	8.9243	0.0	35.6608	0.9111	74.0634	25.0255	81.2914
7808240726	91	34FF1	0.2483	9.9728	3.6785	0.0	13.8996	1.7864	71.7488	26.4648	40.1643
7808240726	91	44GG1	0.1228	1.6379	1.2433	0.0	3.0040	4.0879	54.5240	41.3881	13.3379
7808241245	85	1AA1	0.5474	69.5160	24.5785	0.0	94.6419	0.5864	73.4315	27.9820	126.9930
7808241245	85	4BB1	0.4543	78.7627	14.7098	0.0	93.9268	0.4995	83.8284	16.1741	166.8120
7808241245	85	8CC1	0.5032	49.0962	13.2475	0.0	62.8469	0.8007	78.1203	21.0790	97.5679
7808241245	85	15DD1	0.5588	39.5410	17.3982	0.0	57.4980	0.9719	68.7693	30.2588	70.7805
7808241245	85	28EE1	54.0650	60.2663	57.5657	0.0	171.8970	31.4520	35.0995	33.4485	1.1147
7808241245	85	38FF1	0.7961	8.3666	6.9685	0.0	16.1282	4.9361	51.8756	43.1883	10.5095
7808241245	85	49GG1	0.1008	0.7086	4.5470	0.0	5.3560	1.8745	13.2300	84.8954	7.0278
7808250750	93	1AA1	2.3264	29.1106	11.0082	0.0	42.4452	5.4810	68.5840	25.9351	12.5132
7808250750	93	3BB1	2.8265	33.7796	5.6387	0.0	42.2448	6.6906	79.9616	13.3477	11.9510
7808250750	93	5CC1	1.2946	29.0914	7.6203	0.0	37.9243	3.4134	76.6718	20.1148	22.4018
7808250750	93	9DD1	1.3838	31.8976	8.3546	0.0	41.6360	3.3236	76.6106	20.0658	23.0507
7808250750	93	16EE1	2.1497	74.0536	3.8033	0.0	80.0066	2.6869	92.4900	4.8231	34.4483
7808250750	93	24FF1	0.3616	7.5481	1.7180	0.0	9.6277	3.7558.	78.3998	17.8443	20.8742

Table 2 (continued).

		NET	NAN OR PPP	DOP	TPP	SUM	NET		S DOM	NAN/NET
78082507907	93 31GG1	0.0872	1.6538	6.3542	0.0	8.0952	1.0772	20.0294	78.4934	18.9656
78082512517	92 1AA1	1.1045	90.8452	4.9519	0.0	96.8076	1.1357	93.7538	5.1104	82.5491
78082512517	92 3BB1	1.5797	84.5071	5.0072	0.0	91.1500	1.6916	92.9330	5.3754	54.9388
78082512517	92 5CC1	0.6176	82.2415	0.6207	0.0	83.2858	0.5014	98.7401	0.7925	106.9384
78082512517	92 9DD1	1.8408	88.1242	4.9348	0.0	96.8998	1.9193	92.8807	5.2000	47.8832
78082512517	92 16EE1	5.5620	32.2497	5.8821	0.0	43.6938	12.7295	73.8084	13.4621	5.7982
78082512517	92 24FF1	1.9287	4.4023	0.7180	0.0	6.7290	22.7181	66.0117	10.6702	2.9321
78082512517	92 31GG1	1.0944	1.3282	0.7787	0.0	3.1993	34.2075	41.5153	24.4772	1.2136
78082607471	82 1AA1	2.7954	24.0560	7.1381	0.0	33.9915	8.2238	70.7765	20.9996	8.6063
78082607471	82 2BB1	5.0883	83.1730	20.7007	0.0	86.9884	5.7197	71.0061	23.2742	12.4144
78082607471	82 5CC1	8.2449	77.1060	24.5360	0.0	109.8869	5.6629	70.1491	24.1480	12.3474
78082607471	82 9DD1	6.2084	94.8838	24.5431	0.0	127.6749	4.9097	75.6672	19.2231	15.4527
78082607471	82 14EE1	6.3401	80.0543	15.4019	0.0	101.7963	6.2262	78.6417	15.1301	12.6267
78082607471	82 22FF1	2.0190	20.9470	2.9334	0.0	25.8994	7.7955	80.8781	11.3261	10.3749
78082607471	82 29GG1	0.4303	4.1654	0.9675	0.0	5.5632	7.7348	74.8742	17.3911	9.6802
78082611191	63 1AA1	5.1226	41.2140	4.5900	0.0	50.9275	10.0586	80.9286	9.0128	8.0457
78082611191	63 3BB1	6.8656	85.2547	9.5555	0.0	101.4758	6.5687	84.0148	9.4165	12.7903
78082611191	63 5CC1	8.4663	103.0492	11.5556	0.0	123.0713	6.8458	83.8102	9.3440	12.2426
78082611191	63 9DD1	11.3559	126.0007	11.9082	0.0	148.9648	7.6232	84.5842	7.7926	11.0956
78082611191	63 16EE1	9.4498	100.1175	4.2005	0.0	113.7678	8.3062	88.0016	3.6922	10.5947
78082611191	63 24FF1	0.9923	23.4787	1.5240	0.0	25.9950	3.8173	90.3201	5.8627	23.6609
78082611191	63 31GG1	0.1649	4.3196	0.5979	0.0	5.0824	3.2445	88.9913	11.7641	26.1953
78082707051	70 1AA1	7.3483	51.1494	11.1984	0.0	69.6961	10.5433	73.3892	16.0675	6.9607
78082707051	70 2BB1	10.2878	122.4827	8.6689	0.0	141.4394	7.2736	86.5973	6.1291	11.9056
78082707051	70 4CC1	16.7026	136.9940	31.8398	0.0	179.5364	9.3012	76.3043	17.7384	12.8001
78082707051	70 7DD1	8.9664	125.2360	40.1151	0.0	174.3195	5.1437	71.8439	23.0124	13.9675
78082707051	70 12EE1	11.5958	77.8005	19.4801	0.0	108.8764	10.6500	71.4091	17.9249	6.6921
78082707051	70 18FF1	8.7283	20.1660	6.4182	0.0	31.3349	15.0908	64.4269	20.4826	2.3092
78082707051	70 23GG1	1.1831	4.7858	1.5234	0.0	7.4919	15.7917	63.8743	20.3339	4.0448
78082712201	71 1AA1	2.8557	8.7514	4.7434	0.0	15.7305	14.3196	55.5062	30.1541	3.8708
78082712201	71 3BB1	5.0514	22.7081	4.9719	0.0	32.7314	15.4329	69.3771	15.1900	4.4954
78082712201	71 7CC1	8.9662	34.7458	12.9990	0.0	54.7110	12.7323	63.5079	23.7594	4.9638
78082712201	71 13DD1	7.9142	36.9509	7.4435	0.0	54.3086	14.5726	71.7214	13.7059	4.9216
78082712201	71 21EE1	6.5030	31.0270	3.3029	0.0	38.8929	11.5779	79.7755	8.6466	6.8903
78082712201	71 32FF1	1.4179	8.9567	1.0698	0.0	11.4444	12.3864	78.2655	9.3481	6.3187
78082712201	71 42GG1	0.5086	3.2933	0.8282	0.0	4.6001	11.0563	70.9398	18.0040	6.4762
78082607131	77 1AA1	4.2658	48.5269	3.4933	0.0	56.2860	7.5786	86.2154	6.2061	11.3763

78082812441	79 1AA1	1.0300	6.3082	4.0702	0.0	9.4152	13.8073	32.0243	53.3683	2.3630
78082812441	79 3BB1	2.4260	15.4231	16.7830	0.0	34.6341	7.0104	44.5316	48.4580	6.3522
78082812441	79 11CC1	1.8696	26.1856	24.6962	0.0	52.7514	3.5442	49.6396	46.8162	14.0060
78082812441	79 20DD1	1.8403	28.4071	21.7765	0.0	52.0819	3.5335	54.6543	41.8082	15.4467
78082812441	79 34EE1	1.3064	29.0797	24.1959	0.0	55.1820	2.3674	53.7851	43.8474	22.7167
78082812441	79 52FF1	1.0873	28.6838	23.4157	0.0	53.1868	2.0443	53.9303	44.0254	26.3808
78082812441	79 66GG1	1.8522	8.1753	4.4171	0.0	12.0446	10.3963	51.2703	38.3334	4.4316
78082907451	59 1AA1	0.1708	1.2522	2.8945	0.0	4.1175	4.1481	30.4116	65.4402	7.3314
78082907451	59 2BB1	13.0413	90.0997	21.9282	0.0	124.8692	10.4807	72.2710	17.2482	6.9086
78082907451	59 4CC1	15.7325	94.0289	20.8599	0.0	131.2213	11.9893	72.1140	15.8967	6.0149
78082907451	59 7DD1	13.3803	109.4238	18.7587	0.0	141.7628	9.4385	77.3290	13.2325	8.1929
78082907451	59 11EE1	14.4993	115.1900	5.4572	0.0	135.1069	12.1827	85.2584	2.5589	6.9983
78082907451	59 17FF1	14.1281	85.9546	8.7561	0.0	68.8368	15.9018	78.2424	5.8584	6.6690
78082907451	59 22GG1	3.9283	15.7167	3.2153	0.0	22.4623	19.7077	69.9762	14.3142	4.4550
78082912581	61 1AA1	1.0681	5.0471	6.2542	0.0	12.3694	8.6350	40.8031	50.5619	6.7253
		21.4789	159.6080	34.6294	0.0	215.7143	9.9534	73.9977	16.0489	7.6346

Table 2 (continued).

		NET	NAN CR PPP	DDP	TPP	BUP	% NET	% NAN CR PPP	% DDP	NAN/NET
78008291250101	2BB1	27.4008	187.5107	41.8727	0.0	256.7842	10.6707	73.0227	16.3066	6.8433
78008291250101	4CC1	27.6609	169.3119	41.6918	0.0	838.6666	11.5899	70.9613	17.4688	6.1218
78008291250101	7DD1	20.1399	137.1419	40.4940	0.0	197.7358	10.1491	69.3982	20.6587	6.8096
78008291250101	12EE1	11.6256	75.4659	14.4801	0.0	101.5910	11.4439	74.3033	14.2532	6.4931
78008291250101	19FF1	2.5089	18.6371	4.6159	0.0	25.9619	9.6638	72.5567	17.7795	7.5061
78008291250101	25GG1	1.8196	4.4498	1.4361	0.0	6.9053	26.7026	64.4404	20.7970	2.3651
78008300705128	1AA1	2.0832	27.0920	6.0487	0.0	35.2239	5.9142	76.9137	17.1721	13.0050
78008300705128	3BB1	1.6271	36.3786	10.3683	0.0	48.3740	3.3636	75.2028	21.4336	22.3579
78008300705128	6CC1	1.0017	41.4233	10.0319	0.0	53.1169	3.1284	77.9852	18.8864	24.9263
78008300705128	10DD1	1.1260	43.5375	9.9127	0.0	54.5782	2.0688	79.7709	18.1624	38.5971
78008300705128	17EE1	0.7500	61.8228	23.1421	0.0	85.7149	0.8750	72.1261	26.9989	82.4304
78008300705128	20FF1	0.0868	18.6515	5.1090	0.0	24.6493	2.7944	76.4789	20.7268	27.3686
78008300705128	24GG1	0.3904	3.0797	0.9954	0.0	4.4655	8.7426	68.9668	22.2906	7.8886
78008301245130	1AA1	0.8129	46.6981	1.7753	0.0	49.2863	1.6493	94.7486	3.6020	57.4463
78008301245130	3BB1	0.6643	63.0179	0.5084	0.0	64.3906	1.3424	97.8743	0.7834	72.9121
78008301245130	6CC1	0.8851	64.9267	0.8415	0.0	66.6533	1.3279	97.4096	1.2625	73.3552
78008301245130	10DD1	0.8891	66.2632	0.3988	0.0	67.5311	1.2150	92.6355	0.1495	76.2435
78008301245130	17EE1	0.6546	69.5937	3.1984	0.0	73.4467	0.8913	94.7540	4.3547	106.3148
78008301245130	20FF1	0.5251	32.7950	16.3292	0.0	49.6493	1.0576	66.0533	32.8891	62.4548
78008301245130	24GG1	0.0905	2.4405	1.9224	0.0	4.4594	2.0294	54.6616	43.1089	27.0331
78008310719134	1AA1	2.1093	59.2099	5.9802	0.0	67.3994	3.1314	88.0202	8.8484	28.1068
78008310719134	2BB1	1.7717	62.1567	10.0971	0.0	74.0275	2.3933	83.9870	13.6397	35.0842
78008310719134	5CC1	1.2446	53.4779	18.1866	0.0	72.9091	1.7071	73.3487	24.9442	42.9679
78008310719134	9DD1	0.9960	44.8872	18.2458	0.0	64.1290	1.5531	69.9952	28.4517	45.0675
78008310719134	14EE1	0.7994	23.1378	5.8008	0.0	29.7378	2.6882	77.8054	19.5065	28.9437
78008310719134	22FF1	0.5222	6.6694	4.7353	0.0	11.9469	4.3710	55.9928	39.6362	12.8100
78008310719134	29GG1	0.4682	1.2931	1.7367	0.0	3.4980	13.3848	36.9668	49.6484	2.7619
78008311243139	1AA1	11.8967	453.1995	24.9393	0.0	490.0352	2.4477	92.4830	5.0893	38.0945
78008311243139	2BB1	4.3959	181.5884	9.4559	0.0	195.4402	2.2492	92.9125	4.8383	41.3086
78008311243139	4CC1	2.7194	126.5860	10.0150	0.0	139.3204	1.9518	90.8596	7.1885	46.5492
78008311243139	6DD1	2.2690	79.2061	6.7446	0.0	88.2197	2.6941	89.7975	8.0083	33.1450
78008311243139	10EE1	0.8785	29.4914	1.7984	0.0	32.1683	2.7310	91.6785	5.5906	33.5702
78008311243139	14FF1	0.3312	5.5760	3.6155	0.0	9.7227	5.4035	57.3503	37.1862	10.4970
78008311243139	21GG1	0.3765	1.7052	2.9866	0.0	5.1283	7.3416	38.4208	58.2376	4.6884
78090107211144	1AA1	1.4323	80.2741	29.3603	0.0	111.0667	1.2896	72.2756	26.4348	56.0456
78090107211144	2BB1	0.9976	75.6368	22.9893	0.0	99.6237	0.9998	75.9707	23.0294	76.0192
78090107211144	5CC1	1.1909	62.5117	23.2597	0.0	86.9623	1.3694	71.8837	26.7469	52.4911
78090107211144	9DD1	1.0981	47.2265	13.9140	0.0	62.2386	1.7643	75.8798	22.3559	43.0075
78090107211144	18EE1	0.8766	18.2037	6.3893	0.0	25.4696	3.4417	71.4717	25.0866	20.7662
78090107211144	22FF1	0.8060	5.5930	3.9654	0.0	10.3644	7.7766	53.9636	38.2598	6.9392
78090107211144	29GG1	0.6343	1.6964	2.3855	0.0	4.9162	12.8970	34.5995	48.5035	2.6749
78090112451#6	1AA1	33.3797	191.5725	4.7390	0.0	229.6912	14.5324	83.4044	2.0632	5.7392
78090112451#6	2BB1	26.8010	177.6741	5.4759	0.0	209.9530	12.7662	84.6256	2.6082	6.6289
78090112451#6	4CC1	27.4784	161.4039	8.5495	0.0	193.4318	14.2057	83.4423	2.3920	5.8736
78090112451#6	7DD1	19.4594	111.3739	10.2439	0.0	141.0772	13.7934	78.9853	7.2012	5.7234
78090112451#6	12EE1	5.7823	46.7505	0.3466	0.0	52.8854	10.9336	88.4110	0.6554	8.0861
78090112451#6	18FF1	1.1648	9.5925	3.7145	0.0	14.4718	8.0488	66.2841	25.6671	8.2353
78090112451#6	30GG1	0.4440	0.8824	1.3803	0.0	2.7067	16.4037	32.6006	50.9957	1.9874
78090207111152	1AA1	1.3876	13.9215	15.3628	0.0	30.8719	4.5835	44.6705	50.7460	9.7460
78090207111152	5BB1	1.4228	15.8928	9.1309	0.0	26.4465	5.3799	60.0842	34.5459	11.1701
78090207111152	10CC1	1.5446	17.3853	7.5862	0.0	26.4301	5.8384	65.5826	28.5991	11.2296
78090207111152	17DD1	1.4763	14.9314	5.0971	0.0	21.5048	6.8650	69.4329	23.7022	10.1141
78090207111152	29EE1	4.2346	50.2459	10.6878	0.0	71.1483	5.9518	79.0284	15.0219	13.2777
78090207111152	44FF1	0.7731	6.1420	1.6547	0.0	8.5698	9.0212	71.6703	19.3085	7.9446
78090207111152	57GG1	0.4460	1.4480	2.0599	0.0	3.9539	11.2800	36.6221	52.0979	3.2466
78090212051194	1AA1	0.8203	29.1066	3.2550	0.0	33.1819	2.4721	87.7183	9.8096	35.4829
78090212051194	3BB1	3.2252	38.0581	3.5850	0.0	44.8683	7.1885	84.8212	7.9904	11.7996
78090212051194	6CC1	0.7116	52.6721	3.8800	0.0	57.2637	1.2427	91.9817	6.7757	74.0192

Table 2 ed).

										% DCM	NAN/NET
780902120511	42GG1	0.5469	1.0621	0.8225	0.0	2.4311	22.4795	43.0880	33.8328	1.9439	
780903075811	1AA1	0.9013	32.8043	9.9006	0.0	83.0662	2.0641	75.2626	22.6736	30.4632	
780903075811	3BB1	0.8092	39.4999	6.6539	0.0	86.9630	1.7231	88.1086	14.1884	48.8135	
780903075811	7CC1	0.8479	38.8126	9.8926	0.0	89.4027	1.4119	78.5837	20.0244	55.6453	
780903075811	13DD1	1.6809	94.6921	20.9218	0.0	79.2046	2.1222	71.4630	26.4148	33.6737	
780903075811	21EE1	2.1269	73.3930	16.9915	0.0	92.9114	2.2991	79.3340	18.3669	30.5070	
780903075811	32FF1	1.0786	9.2958	2.0434	0.0	12.4178	0.0459	74.8587	18.4554	8.6184	
780903075811	42GG1	0.5444	1.2059	1.0661	0.0	2.8184	19.3159	42.7867	37.8978	2.2151	
780903124211	1AA1	22.0980	296.2146	13.2732	0.0	331.5857	4.6643	89.3327	4.0029	13.4046	
780903124211	3BB1	20.8670	304.7471	14.4448	0.0	340.0386	6.1308	89.6213	4.2479	14.6183	
780903124211	7CC1	18.7068	276.6082	10.3169	0.0	305.4318	6.1207	90.5037	3.3796	14.7865	
780903124211	13DD1	17.0397	200.8180	12.6808	0.0	231.1385	7.6317	86.8821	5.4862	11.3844	
780903124211	21EE1	11.3647	105.1202	9.7292	0.0	126.2201	9.0039	83.2880	7.7081	9.2502	
780903124211	32FF1	3.1006	13.0067	1.3076	0.0	17.4149	17.4043	74.6873	7.5085	4.1949	
780903124211	42GG1	0.8098	2.0199	1.1350	0.0	4.0247	21.6115	50.1076	28.2609	2.3223	

Table 3.

			NET	NAN CH PPP	CGP	TPP	SGP	% NET	% NAN CH PPP	% CGP	NAN/NET
781000u0d20	87	1AA1	22.8700	134.8503	1.2712	0.0	158.9475	14.3839	84.8100	0.7995	5.8900
781u00u0d20	87	1BB1	24.5509	110.8269	5.0170	0.0	140.4028	10.5474	80.0719	3.3807	4.8389
781000u0d20	87	4CC1	19.7307	111.9039	2.1480	0.0	133.8020	14.7417	83.6534	1.6049	5.6740
781000u0d20	87	6DD1	16.5549	89.2351	1.7431	0.0	107.5331	15.3952	82.9859	1.6210	5.3903
781u00u0d20	87	13EE1	7.0729	49.0221	3.0956	0.0	59.9906	13.1236	81.7103	5.1001	6.2267
781u00u0d20	87	21FF1	2.0053	19.0120	2.9207	0.0	24.5380	8.1847	79.9316	11.9837	9.7898
781u00u0d20	87	26GG1	1.1220	8.0794	2.2043	0.0	10.2003	10.9991	87.4035	21.5974	8.1261
781000812u0	88	1AA1	7.5659	40.0002	0.0	0.0	47.5852	15.9598	84.0802	0.0	5.2736
781000812u0	88	1BB1	12.7739	77.1031	2.0209	0.0	92.5059	13.8087	83.3494	2.8419	6.0360
781000812u0	88	2CC1	12.7041	91.9103	2.0480	0.0	106.7844	11.9036	86.1193	1.9171	7.1964
781000812u0	88	7DD1	10.0087	131.3197	2.4869	0.0	143.7973	6.9603	91.3228	1.7189	13.1206
781000812u0	88	13EE1	17.5207	62.5708	2.7495	0.0	82.8402	21.1576	75.5237	3.3187	3.5696
781000812u0	88	14FF1	2.0338	22.1994	0.5585	0.0	25.3893	10.3721	87.4301	2.1919	8.4299
781000812u0	88	18GG1	0.8701	9.0803	0.0452	0.0	10.3876	8.5067	87.4000	0.2115	13.9097
781000707J1	91	1AA1	14.0000	46.3122	4.0701	0.0	65.7967	22.2016	70.3847	7.4137	3.1702
781000707J1	91	4BB1	11.5830	51.2141	12.7017	0.0	75.4700	15.3195	67.8523	16.8282	4.4291
781000707J1	91	8CC1	14.9290	65.0010	18.3170	0.0	98.3002	15.1885	66.1813	18.6322	4.3579
781000707J1	91	15DD1	3.8543	60.5595	19.2750	0.0	83.6888	4.6055	72.3827	23.0317	15.7124
781000707J1	91	24EE1	9.0631	62.3619	3.3105	0.0	72.7155	9.7408	85.7065	4.5527	6.7987
781000707J1	91	38FF1	3.9688	10.1188	1.3001	0.0	21.4485	18.4989	75.1585	6.3427	4.0829
781000707J1	91	49GG1	1.2944	3.2210	0.8519	0.0	5.2773	22.8223	81.0350	16.1427	2.6748
781000712J0	93	1AA1	75.2158	21.5078	3.2385	0.0	99.9595	75.2459	21.5183	3.2378	0.2859
781000712J0	93	1BB1	110.2526	43.2992	3.1495	0.0	158.6923	70.3825	27.6353	2.0042	0.3927
781000712J0	93	4CC1	141.6080	72.1379	10.4940	0.0	224.2399	63.1502	32.1700	4.6798	0.5094
781000712J0	93	8DD1	152.4921	103.8028	15.0236	0.0	271.0184	56.3262	38.1428	5.5311	0.6774
781000712J0	93	9EE1	109.4335	76.3590	9.7963	0.0	195.5888	55.9508	39.0406	5.0086	0.6976
781000712J0	93	14FF1	29.5767	21.5021	0.9729	0.0	52.1317	56.7340	41.2492	1.8662	0.7297
781000712J0	93	19GG1	8.8140	8.9751	0.0	0.0	17.7891	49.5472	50.4528	0.0	1.0183
781000807J5	96	1AA1	3.0077	44.5596	13.3522	0.0	61.5195	5.0843	72.4317	21.7040	12.3512
781000807J5	96	1BB1	2.0419	63.8705	23.3045	0.0	89.2169	2.9480	71.6474	26.0046	24.1003
781000807J5	96	4CC1	3.2657	72.7539	9.0290	0.0	85.0486	3.8398	85.5439	10.6163	22.2782
781000807J5	96	7DD1	4.2021	80.5169	20.6341	0.0	105.4331	4.0014	76.3678	19.5708	18.8031
781000807J5	96	11EE1	1.4759	65.1774	7.5979	0.0	74.2512	1.9877	87.7796	10.2327	44.1611
781000807J5	96	16FF1	0.8044	3.1924	0.1313	0.0	3.9281	5.3666	81.2708	3.3426	5.2819
781000807J5	96	20GG1	0.2034	0.8264	0.9300	0.0	2.0004	2.1676	41.3118	46.5207	3.3954
781000813J5	98	1AA1	5.3845	48.7050	14.9364	0.0	69.0879	7.7847	70.6130	21.6023	9.0440
781000813J5	98	1BB1	6.9720	76.2204	17.4099	0.0	102.6023	6.7952	76.2305	16.9683	11.2192
781000813J5	98	3CC1	5.9990	85.7702	22.0254	0.0	114.5952	5.2355	74.8402	19.9183	14.2960
781000813J5	98	4DD1	4.6258	80.0855	21.9471	0.0	106.6184	4.5176	74.9362	20.5462	16.5677
781000813J5	98	8EE1	3.0533	50.0223	0.8846	0.0	54.4602	5.6044	92.9187	1.6769	16.5795
781000813J5	98	10FF1	0.0	15.5060	0.0050	0.0	15.5538	0.0	99.6747	0.4203	0.0
781000813J5	98	23GG1	0.2982	4.0170	2.3022	0.0	7.2160	4.1048	63.9911	31.9041	15.5695
781009u0dU5114		1AA1	20.2981	61.5810	1.8732	0.0	87.7523	27.0957	70.1891	2.1351	2.5336
781009u0dU5114		1BB1	15.7587	84.4800	7.9492	0.0	108.1879	14.5714	78.0783	7.3503	5.3561
781009u0dU5114		4CC1	24.3696	86.2320	26.6833	0.0	137.3049	17.7431	62.8033	19.4536	3.5358
781009u0dU5114		7DD1	20.0504	73.9435	26.7446	0.0	121.5967	17.1537	60.8516	21.9947	3.5474
781009u0dU5114		12EE1	15.9645	64.2698	5.5110	0.0	85.7851	18.6185	74.9543	6.4272	4.0250
781009u0dU5114		21FF1	5.0300	21.9113	4.0538	0.0	31.0017	17.8364	69.3358	12.8278	3.8873
781009u0dU5114		33GG1	1.1921	3.9522	4.3949	0.0	9.5392	12.4966	41.4311	46.0720	3.3153
781009126U115		1AA1	2.4137	12.9717	12.5478	0.0	27.9332	8.6410	46.4383	44.9207	5.3742
781009126U115		5BB1	2.3553	21.7129	14.8517	0.0	39.0199	6.0370	55.6457	38.0019	8.8853
781009126U115		8CC1	3.9084	33.0153	18.2975	0.0	55.2810	7.1788	59.7227	33.0967	8.3195
781009126U115		15DD1	2.1437	29.2397	6.3328	0.0	37.7160	5.6838	77.5200	16.7962	13.6398
781009126U115		27EE1	0.9757	21.9797	2.0008	0.0	25.5542	3.8183	86.0121	10.1776	22.5234
781009126U115		30FF1	0.2361	4.8877	0.9355	0.0	5.0613	4.2057	79.2698	16.5245	18.8480
781009126U115		48GG1	0.1588	1.6031	0.5275	0.0	2.2894	6.9363	70.0228	23.0410	10.0951
781010u0d30122		1AA1	26.8409	8.6933	3.9871	0.0	39.2313	73.0053	18.8317	10.1631	0.2306
781010u0d30122		2BB1	37.5083	20.9777	6.2336	0.0	64.7776	57.9427	32.3842	9.6631	0.5584

Table 3 (continued).

		NET	MAN OR PPP	DUM	TPP	SLP	% NET	% MAN OR PPP	% DLP	MAN/NET
781010083U122	3CC1	51.1907	47.7571	5.5187	0.0	104.4665	49.0020	45.7152	5.2827	0.9329
781010083U122	5CD1	52.9026	55.4303	4.5308	0.0	110.8635	47.6040	48.2818	3.9133	1.0100
781010083U122	10EE1	32.7981	38.4830	3.8333	0.0	75.1144	43.6042	51.2325	5.1633	1.1733
781010083U122	17FF1	12.5138	14.7490	0.0337	0.0	27.2965	45.8440	54.0326	0.1235	1.1786
781010083U122	27GG1	3.1008	5.9703	0.0	0.0	9.1371	34.0587	65.3413	0.6	1.8853
781010121712e	1AA1	3.9373	53.7400	5.0842	0.0	62.7615	6.2734	85.6257	8.1008	13.6489
781010121712e	1BB1	5.8773	124.0001	5.6581	0.0	135.3415	4.1948	91.6248	4.1806	21.0428
781010121712e	4CC1	9.5872	180.5878	13.9471	0.0	204.1219	4.6988	88.4705	6.8327	18.8363
781010121712e	7DD1	6.8706	175.5726	21.0467	0.0	203.2699	3.2013	86.3656	10.3531	26.3204
781010121712e	13EE1	3.3129	128.8786	3.5847	0.0	135.5362	2.4443	94.9404	2.6153	38.8417
781010121712e	19FF1	1.2278	48.5091	2.0367	0.0	50.4328	2.4329	92.3389	5.2281	37.9536
781010121712e	26GG1	0.4037	11.4426	0.0398	0.0	11.8771	3.3990	96.3417	0.2593	28.3443
781011072S124	1AA1	56.1903	42.8581	2.7001	0.0	100.9485	55.6034	41.6616	2.6736	0.7485
781011072S124	1BB1	79.4214	81.0585	6.8038	0.0	167.9597	47.2800	48.0155	4.0965	1.0281
781011072S124	3CC1	97.1052	119.5760	7.8415	0.0	224.5247	43.2492	53.2563	3.4925	1.2314
781011072S124	4CD1	105.8250	125.8230	9.8022	0.0	241.3102	43.8543	52.1416	4.0041	1.1890
781011072S124	8EE1	82.8242	119.1591	3.8136	0.0	205.7969	40.2456	57.9013	1.8531	1.4387
781011072S124	15FF1	16.4249	30.0319	0.9473	0.0	47.4241	34.6341	63.3664	1.9975	1.8297
781011072S124	27GG1	7.2078	11.9992	0.3453	0.0	19.5523	36.8682	61.3698	1.7660	1.6646
781011115712S	1AA1	61.0304	26.2201	3.4793	0.0	90.7378	67.2890	28.8985	3.8345	0.4296
781011115712S	1BB1	90.8575	58.4865	7.3763	0.0	154.7199	58.7237	36.5067	4.7675	0.6217
781011115712S	3CC1	92.5607	111.8085	8.8504	0.0	213.0854	43.4383	52.4055	4.1562	1.2064
781011115712S	8DD1	169.0254	115.8459	6.3618	0.0	291.2120	58.0419	39.7736	2.1846	0.6853
781011115712S	9EE1	48.7987	74.7705	4.8039	0.0	128.4331	37.9958	58.2175	3.7871	1.5324
781011115712S	13FF1	16.8478	24.2713	2.2317	0.0	43.3508	38.8839	55.9881	5.1480	1.4406
781011115712S	19GG1	8.4677	9.2740	0.8141	0.0	18.5558	39.0001	56.0166	4.9173	1.4339
781012074415S	1AA1	39.3600	62.7136	7.3744	0.0	109.4480	35.9775	57.2863	6.7362	1.5923
781012074415S	1BB1	55.2107	109.1833	15.4218	0.0	179.8038	30.7105	60.7124	8.5770	1.9769
781012074415S	3CC1	94.7154	141.5063	22.5359	0.0	258.7595	36.6036	54.6872	8.7092	1.4940
781012074415S	8DD1	47.4038	127.3920	26.7380	0.0	201.5338	23.5215	63.2112	13.2672	2.6874
781012074415S	10EE1	42.3127	124.2001	6.6972	0.0	173.2780	24.4192	71.7157	3.8650	2.9369
781012074415S	19FF1	3.2378	37.0783	2.6722	0.0	42.9883	7.5318	86.2521	6.2161	11.4517
781012074415S	26GG1	2.5802	13.9963	1.4214	0.0	17.9779	14.2408	77.8529	7.9064	5.4069
781014080U14e	1AA1	164.7775	58.0577	1.3312	0.0	224.1664	73.5068	25.8994	0.5938	0.3523
781014080U14e	1BB1	172.8433	69.6356	1.4796	0.0	244.1585	70.7914	28.5026	0.6060	0.4040
781014080U14e	3CC1	201.3383	69.2458	7.2413	0.0	277.8252	72.4694	24.9242	2.6064	0.3439
781014080U14e	5DD1	158.4690	63.0014	4.9183	0.0	226.3887	69.9986	27.8269	2.1725	0.3976
781014080U14e	8EE1	105.1855	32.3862	1.8599	0.0	139.3916	75.4317	23.2340	1.3343	0.3080
781014080U14e	15FF1	25.2922	8.8280	0.2954	0.0	34.2156	73.9188	25.2179	0.8633	0.3412
781014080U14e	29GG1	11.2127	3.5373	0.1107	0.0	14.8607	75.4216	23.7934	0.7850	0.3155
781014131U14e	1AA1	269.1819	227.1012	31.3700	0.0	527.6528	51.0131	43.0415	5.9454	0.8437
781014131U14e	1BB1	266.0890	214.9043	44.9910	0.0	520.5847	50.0702	41.2813	8.6425	0.8244
781014131U14e	3CC1	332.4734	180.5698	52.8547	0.0	565.8555	58.7517	31.9067	9.3397	0.5431
781014131U14e	5DD1	188.0702	145.0217	30.3538	0.0	364.4514	50.9469	39.2532	9.8199	0.7711
781014131U14e	9EE1	69.9799	54.2779	7.2375	0.0	131.4953	53.2186	41.2774	5.5040	0.7756
781014131U14e	15FF1	14.9553	12.7648	2.4278	0.0	30.1473	49.5746	42.3764	8.0471	0.8548
781014131U14e	21GG1	6.7481	4.4790	0.7390	0.0	11.9681	56.3935	37.4307	6.1758	0.6637
781015075S182	1AA1	9.2183	91.8917	9.8736	0.0	108.7836	8.4355	84.4720	6.8925	12.7334
781015075S182	1BB1	8.4303	81.2536	12.1605	0.0	99.8444	8.4403	81.3203	12.1794	12.6361
781015075S182	5CC1	4.3751	56.7311	14.0198	0.0	77.1260	5.6727	78.1498	18.1778	13.4239
781015075S182	9DD1	3.9551	39.5721	8.0098	0.0	51.5300	7.6743	78.7842	15.5415	10.0053
781015075S182	16EE1	0.8451	11.8265	1.3498	0.0	13.8214	6.1144	84.1198	9.7660	13.7575
781015075S182	25FF1	0.1163	0.9390	0.3740	0.0	1.4294	8.1334	65.6669	26.1976	8.0739
781015075S182	33GG1	0.2952	0.3570	0.8601	0.0	1.5123	19.5199	23.6064	56.8736	1.2093
781015123U142	1AA1	238.5057	147.5941	21.2851	0.0	407.3845	58.5456	36.2297	5.2248	0.6186
781015123U142	1BB1	199.4163	115.3656	18.8141	0.0	333.3979	59.8139	34.6030	5.6431	0.5785
781015123U142	3CC1	109.1548	76.0346	15.1102	0.0	200.2994	54.4957	37.9605	7.5438	0.6966
781015123U142	5DD1	59.7497	40.8778	8.2484	0.0	108.8719	54.9813	37.4317	7.5865	0.6844

Table 3 (continued).

		NET	NAN ON PPP	DLP		SUP	% NET	% NAN ON PPP	% DLP	NAN/NET
7810151230142	11EE1	9.0710	10.2003	0.4203	0.0	29.7770	04.0440	34.5030	1.4115	0.5394
7810151230142	19FF1	4.3447	1.9590	0.5193	0.0	6.8238	03.0098	28.7201	7.6101	0.4511
7810151230142	25GG1	0.7746	0.4050	0.3598	0.0	1.5394	50.3103	26.3089	23.3727	0.5229
7810160026130	1AA1	46.7655	23.2449	5.7431	0.0	75.7335	01.7501	30.6666	7.5833	0.4900
7810160026130	1BB1	65.1911	27.0100	3.7112	0.0	96.5123	07.5409	28.0077	3.8493	0.4235
7810160026130	2CC1	65.8015	31.5058	2.5101	0.0	99.8774	65.8138	31.6660	2.5102	0.4814
7810160026130	4CD1	67.2707	38.3020	5.3029	0.0	110.9616	60.6306	34.5903	4.7790	0.5705
7810160026130	10EE1	46.1210	24.2063	0.3723	0.0	70.7602	65.1801	34.2937	0.5261	0.5261
7810160026130	19FF1	18.6044	7.8039	0.0167	0.0	27.2270	09.0853	28.6624	2.2724	0.4150
7810160026130	25GG1	3.3373	2.2045	1.3209	0.0	6.9537	47.9931	32.9249	19.0819	0.6600
7810161151135	1AA1	56.0476	57.0795	6.3249	0.0	122.8370	47.6406	46.9561	5.1531	0.9605
7810161151135	1BB1	69.3411	72.7528	7.9178	0.0	149.9817	46.2330	48.4944	5.2725	1.0489
7810161151135	4CC1	51.9234	61.6202	3.7366	0.0	117.2802	44.2729	52.5410	3.1860	1.1866
7810161151135	7DD1	40.7053	51.4454	4.9875	0.0	97.1382	41.9045	52.9610	5.1344	1.2638
7810161151135	12EE1	22.6987	30.0834	2.5625	0.0	55.9626	40.5569	54.0284	4.6147	1.3519
7810161151135	19FF1	4.8431	6.9374	1.0002	0.0	14.8487	32.6207	46.7269	20.6524	1.4324
7810161151135	27GG1	1.5055	1.7018	0.3014	0.0	3.5087	41.4511	49.6503	8.5986	1.1635
7810171074u106	1AA1	3.0426	99.3487	10.2200	0.0	112.6113	2.7019	88.2227	9.0755	32.6520
7810171074u106	1BB1	3.5364	127.5229	13.8167	0.0	144.8760	2.4410	88.0221	9.5369	36.0601
7810171074u106	4CC1	3.5348	135.3028	10.1068	0.0	149.0044	2.3713	90.8083	6.8204	38.2943
7810171074u106	8CD1	2.9960	129.7030	13.0450	0.0	145.7440	2.0557	88.9937	8.9506	43.2921
7810171074u106	14EE1	1.3601	70.0008	3.6544	0.0	75.2353	1.8344	93.0425	5.1431	50.7210
7810171074u106	22FF1	0.0765	17.4351	1.0319	0.0	18.5433	0.4115	94.0238	5.5648	228.5072
7810171074u106	30GG1	0.7810	4.9372	0.6296	0.0	6.3484	12.3118	77.7706	9.9175	6.3168
7810171220105	1AA1	8.3691	123.7650	9.2836	0.0	139.4577	4.5814	88.7617	6.6569	19.3744
7810171220105	1BB1	8.0241	139.5065	13.4719	0.0	159.8025	4.1504	87.4087	8.4409	21.0604
7810171220105	3CC1	3.2877	145.5006	12.0767	0.0	158.8670	2.0695	90.3278	7.6030	43.6477
7810171220105	6CD1	5.5598	134.1595	14.4702	0.0	154.1955	3.6057	87.0061	9.3882	24.1302
7810171220105	10EE1	1.4205	72.7012	12.7200	0.0	86.8475	1.6354	83.7113	14.6533	51.1872
7810171220105	17FF1	0.2227	21.0591	4.0127	0.0	25.2945	0.8804	83.2557	15.8639	94.5820
7810171220105	23GG1	0.0634	3.8258	2.4212	0.0	6.3104	1.0047	80.6269	38.3684	60.3430
7810180741100	1AA1	4.3300	12.9607	3.9403	0.0	21.2490	20.4057	61.0227	18.5717	2.9905
7810180741100	1BB1	5.2955	52.3104	6.8259	0.0	64.4318	8.2188	81.1872	10.5940	9.8763
7810180741100	4CC1	4.0598	69.1378	5.9816	0.0	79.1792	5.1274	87.3181	7.5545	17.0296
7810180741100	8CD1	5.2230	98.4042	11.7996	0.0	113.5068	4.6015	85.0030	10.3955	18.8729
7810180741100	10EE1	5.3103	90.9938	1.0982	0.0	97.4083	5.4577	93.4148	1.1274	17.1180
7810180741100	20FF1	3.3208	41.1495	4.4232	0.0	48.8935	6.7919	84.1615	9.0466	12.3914
7810180741100	30GG1	0.8485	5.4212	0.8408	0.0	7.1103	11.9200	76.1580	11.9214	6.3892
7810181139099	1AA1	11.8485	64.8524	0.2929	0.0	76.7938	15.4290	84.1896	0.3814	5.4500
7810181139099	1BB1	14.0096	114.6993	4.5317	0.0	133.2406	10.5145	86.0843	3.4011	8.1872
7810181139099	3CC1	16.5942	154.0308	7.8153	0.0	178.4403	9.2996	86.3208	4.3798	9.2822
7810181139099	6CD1	19.2236	164.7198	9.2185	0.0	193.1619	9.9521	85.2755	4.7724	8.5686
7810181139099	9EE1	12.4706	146.0491	4.0802	0.0	162.5859	7.6748	89.8349	2.4053	11.7058
7810181139099	14FF1	5.8448	81.0284	1.3253	0.0	88.1985	6.5703	89.4865	1.9433	10.4415
7810181139099	20GG1	1.9900	23.6018	0.1272	0.0	25.6050	7.7349	91.7722	0.4929	11.8648
7810190751401	1AA1	8.0571	34.1752	4.7177	0.0	46.9500	17.1610	72.7906	10.0483	4.2418
7810190751401	1BB1	8.6301	42.2810	9.1174	0.0	60.0285	14.3767	70.4349	15.1885	4.8992
7810190751401	4CC1	7.0372	44.0005	10.8640	0.0	62.5017	12.2079	70.4273	17.3652	5.7892
7810190751401	7CD1	7.7413	34.0323	15.9279	0.0	57.7015	13.4161	58.9799	27.6040	4.3962
7810190751401	13EE1	4.8446	23.1032	7.2349	0.0	35.0829	13.2471	66.1159	20.6341	4.9912
7810190751401	22FF1	1.3274	5.9741	2.1918	0.0	9.5533	14.5227	62.5344	22.9428	4.3060
7810190751401	30GG1	0.7395	2.5030	0.8842	0.0	3.9267	18.5492	59.2721	22.1787	3.1954
7810191226402	1AA1	108.9211	101.7095	14.9964	0.0	285.6267	38.1341	56.0157	5.2503	1.4844
7810191226402	1BB1	114.4753	139.9712	12.9831	0.0	267.4294	42.8058	52.3395	4.8548	1.2227
7810191226402	3CC1	97.3749	159.9598	8.6925	0.0	266.2319	36.5771	60.0829	3.2401	1.6426
7810191226402	5CD1	66.7320	122.2610	12.0158	0.0	201.5088	33.1083	60.6349	6.2568	1.8315
7810191226402	12EE1	29.6408	50.8308	2.5235	0.0	89.0011	33.5206	63.6361	2.8454	1.8480
7810191226402	22FF1	8.3939	13.2432	2.4042	0.0	24.0213	34.9436	55.1478	10.0068	1.5753

Table 3 (continued).

		NET	NAN CH PPP	OUM	TPP	SUM	% NET	% NAN CH PPP	% OUM	NAN/NET
7810191222e402	31GG1	3,7e98	5,9458	1,8836	0,0	11,5986	32,0147	51,2674	16,1179	1,5719
7810200746077	1AA1	55,3724	55,0096	12,2885	0,0	122,7105	45,1248	44,8777	9,9976	0,9945
7810200746077	1881	86,0678	84,4608	7,9382	0,0	178,9868	48,0915	47,4729	4,4356	0,9871
7810200746077	3CC1	107,3874	125,4132	11,4282	0,0	244,0268	44,0464	51,3932	4,6004	1,1679
7810200746077	8CD1	79,0734	89,4874	20,8328	0,0	189,1936	41,7950	47,1937	11,0114	1,1292
7810200746077	11EE1	59,0869	55,3830	21,5812	0,0	136,0307	43,4361	40,7136	15,8502	0,9373
7810200746077	17FF1	12,3140	15,3588	2,8039	0,0	30,4767	40,4046	50,3952	9,2001	1,2473
7810200746077	22GG1	3,1187	4,2734	0,0004	0,0	7,3845	42,1447	57,8849	0,0054	1,3738
7810210745084	1AA1	10,9379	22,3171	21,0158	0,0	60,2708	20,1050	37,0280	34,8669	1,3178
7810210745084	3881	24,5793	24,9998	22,0047	0,0	71,5638	34,3368	34,9236	30,7396	1,0171
7810210745084	5CC1	25,3089	36,2889	24,5689	0,0	86,1607	29,3717	42,1154	28,5129	1,4339
7810210745084	10DD1	20,9115	36,6751	28,1069	0,0	86,7935	24,9094	42,2556	27,7750	1,8103
7810210745084	15EE1	15,1411	26,2100	6,6387	0,0	47,9876	31,5520	54,6180	13,8300	1,7310
7810210745084	23FF1	4,4767	8,7338	1,8629	0,0	14,8734	28,7540	58,7209	12,5250	2,0422
7810210745084	31GG1	2,1840	3,1975	1,0558	0,0	6,4379	33,9334	49,6668	16,3997	1,4837
7810211244403	1AA1	10,0781	29,9344	32,2312	0,0	72,8437	14,6589	41,0940	44,2871	2,8033
7810211244403	3CC1	11,0008	38,1534	26,7609	0,0	75,9151	14,4909	50,2588	35,2511	3,4684
7810211244403	5CC1	8,4028	42,0418	16,4028	0,0	66,8674	12,5627	62,8248	44,0125	5,0009
7810211244403	12DD1	0,8004	40,0532	39,9521	0,0	90,0057	11,0945	44,2080	44,0945	3,7785
7810211244403	23EE1	1,8699	14,5468	3,9712	0,0	20,3879	9,1716	71,3502	19,4782	7,7745
7810211244403	35FF1	0,3173	2,4840	0,2394	0,0	3,0407	10,4351	81,6917	7,8732	7,8260
7810211244403	50GG1	0,0131	0,7742	0,0	0,0	1,3873	44,1938	55,8062	0,0	1,2620
7810220621070	1AA1	8,5484	17,1435	2,0838	0,0	27,7713	30,7870	61,7303	7,5027	2,0064
7810220621070	2881	0,9556	22,9847	2,3939	0,0	36,0342	29,5708	63,7858	6,6434	2,1571
7810220621070	4CC1	8,8848	26,7335	2,0591	0,0	37,4774	23,1734	71,3323	5,4942	3,0782
7810220621070	8DD1	12,4816	34,0488	4,3002	0,0	50,8106	24,5650	67,2909	28,1441	1,9251
7810220621070	13EE1	8,5673	19,3750	7,0421	0,0	34,9844	24,4889	55,3818	20,1493	2,2615
7810220621070	23FF1	1,5945	14,5067	2,7291	0,0	18,8903	7,4811	77,9372	14,4817	0,4456
7810220621070	35GG1	1,1237	3,1964	1,5349	0,0	6,8600	16,3804	61,1720	22,4475	3,7345
7810221231404	1AA1	4,3093	47,3612	16,4638	0,0	68,1543	6,3229	69,5205	24,1566	10,9951
7810221231404	3881	5,2330	44,1429	28,8349	0,0	78,2678	6,6873	56,4431	36,8696	8,4403
7810221231404	8CC1	4,0004	52,7136	23,7106	0,0	84,4886	4,6128	62,3899	32,7972	12,9632
7810221231404	11DD1	3,9966	44,3604	30,3530	0,0	79,7120	5,0708	55,6536	38,0783	8,8748
7810221231404	20EE1	2,8730	31,5934	13,5419	0,0	47,8083	5,5911	66,0835	28,3654	11,8195
7810221231404	34FF1	0,5833	5,8801	3,0801	0,0	9,3975	6,2070	61,7834	32,0096	9,9539
7810221231404	48GG1	0,4045	1,5033	0,4955	0,0	2,4813	16,4344	63,5152	20,0504	3,8648
7810230758068	1AA1	39,1068	36,4030	1,8040	0,0	77,3158	50,8419	47,0835	2,0746	0,9261
7810230758068	4881	75,0958	70,3091	1,8608	0,0	147,0637	51,2609	47,8143	1,1647	0,9209
7810230758068	8CC1	81,2103	95,7772	1,1721	0,0	178,1596	45,5829	53,7592	0,6579	1,1794
7810230758068	8DD1	75,2118	110,5682	5,2933	0,0	191,0353	39,3710	57,8581	2,7709	1,4698
7810230758068	9EE1	45,0741	70,2338	2,1794	0,0	117,4873	38,3851	59,7799	1,8550	1,5582
7810230758068	13FF1	7,9307	11,3916	0,7057	0,0	19,9840	39,7153	58,7538	3,5313	1,4290
7810230758068	18GG1	2,5137	4,4841	0,3511	0,0	7,2689	34,5816	60,5883	4,8302	1,7520
7810231226067	1AA1	50,2937	65,0315	0,4218	0,0	115,7470	43,4514	56,1842	0,3644	1,2930
7810231226067	1881	81,8721	109,0993	3,0027	0,0	195,1741	41,9482	56,2059	1,8459	1,3399
7810231226067	2CC1	84,3135	145,4570	1,0619	0,0	230,8124	36,5290	63,0109	0,4601	1,7253
7810231226067	5DD1	66,4088	127,2868	4,8391	0,0	198,5343	33,4643	64,1133	2,4374	1,9167
7810231226067	9EE1	45,7848	76,8477	3,2592	0,0	125,8913	36,3682	61,0429	2,5889	1,6785
7810231226067	13FF1	6,4487	12,2491	1,9778	0,0	20,6756	31,1849	59,2842	9,5659	1,8995
7810231226067	18GG1	1,6587	9,2012	0,8937	0,0	10,9456	15,0889	84,0630	0,8501	5,5781
7810240855 01	1AA1	5,3201	7,9881	5,0044	0,0	18,9186	28,1527	41,9004	29,9309	1,4885
7810240855 01	3881	7,1699	22,3842	0,0399	0,0	30,1940	19,8098	61,8451	18,3453	3,1223
7810240855 01	5CC1	3,8896	40,0580	12,0313	0,0	60,5589	13,0680	67,1049	19,8271	5,1508
7810240855 01	9CD1	9,1277	40,7551	8,0751	0,0	57,9579	15,7489	70,3185	13,9327	4,4650
7810240855 01	15EE1	4,1224	28,0565	4,8760	0,0	36,8549	11,1855	76,1209	12,0478	6,8059
7810240855 01	23FF1	1,8748	11,3827	0,0040	0,0	13,0615	12,2580	83,3208	4,4212	6,7973
7810240855 01	30GG1	1,0034	3,2005	0,0959	0,0	4,3598	23,0148	74,7855	2,1996	3,2495
7810241238 02	1AA1	4,2915	10,9159	0,2930	0,0	15,5004	27,6884	70,4233	1,8903	2,5436

Table 3 (continued).

		NET	NAN CH PPP	UGM	TPP	SUP	% NET	% NAN CH PPP	% UGM	NAN/NET
781V241238 02	4DD1	0.0020	20.0019	2.7011	0.0	36.2258	10.9445	73.4336	7.0419	3.0762
781V241238 02	8CC1	9.4961	41.1718	3.8989	0.0	54.5008	17.4427	75.4521	7.1452	4.3357
781V241238 02	14D01	9.0572	40.1055	4.0172	0.0	60.5799	15.9413	76.1069	7.9518	4.7742
781V241238 02	23EE1	5.0010	29.4188	0.7089	0.0	35.9887	10.1189	81.7448	2.1305	5.0713
781V241238 02	30FF1	1.3797	5.7155	0.3101	0.0	7.4053	10.0312	77.1812	4.1875	4.1428
781V241238 02	47GG1	0.4151	1.5402	0.2078	0.0	1.9629	21.1473	88.2706	10.5762	3.2280
781V250802 54	1AA1	217.9014	35.1960	2.3179	0.0	255.3253	85.3427	13.7495	0.9078	0.1611
781V250802 54	1BB1	334.3425	62.4401	2.8227	0.0	396.9111	83.7386	15.8040	0.8575	0.1863
781V250802 54	2CC1	372.1405	81.0179	4.1520	0.0	457.4680	81.2717	17.8217	0.9066	0.2193
781V250802 54	4DD1	332.2376	112.0830	2.9052	0.0	447.2258	74.2000	25.0618	0.6496	0.3374
781V250802 54	7EE1	244.3105	101.3095	1.3240	0.0	347.0044	70.4056	29.2127	0.3817	0.4149
781V250802 54	11FF1	85.8951	37.4582	1.1757	0.0	104.5290	83.0400	35.8352	1.1248	0.5005
781V250802 54	14GG1	21.0000	14.7553	0.0	0.0	36.4441	59.5125	40.4875	0.0	0.8803
781V251129187	1AA1	103.9230	6.9450	5.4587	0.0	118.3275	87.8273	7.5595	4.6132	0.0801
781V251129187	1BB1	343.5513	29.1070	11.1405	0.0	383.8652	89.4479	7.5984	2.9536	0.0849
781V251129187	2CC1	890.0194	108.0938	19.5021	0.0	815.0752	84.7307	12.8692	2.4000	0.1519
781V251129187	3DD1	845.7806	117.4814	26.4451	0.0	789.6676	81.7768	14.8744	3.3488	0.1819
781V251129187	4EE1	831.0586	108.9011	10.2005	0.0	750.3059	84.1908	14.5222	1.3710	0.1727
781V251129187	7FF1	156.2714	37.0670	2.2909	0.0	196.1693	79.8008	18.9772	1.1580	0.2374
781V251129187	9GG1	54.5108	13.1194	0.3570	0.0	67.9784	80.1888	19.2882	0.5652	0.2405
781V260812050	1AA1	17.2937	51.8107	10.0081	0.0	79.7125	21.6951	64.9970	13.3080	2.9959
781V260812050	2BB1	34.8243	121.1019	15.7402	0.0	171.6664	20.2888	70.5449	9.1691	3.4775
781V260812050	3CC1	32.5307	160.5059	19.0238	0.0	212.0604	15.3403	75.6888	8.9709	4.9340
781V260812050	6DD1	48.2945	169.8810	14.7167	0.0	232.8922	20.7368	72.9440	6.3191	3.5176
781V260812050	10EE1	4.1539	23.4933	0.0491	0.0	27.6963	15.0178	84.8024	0.1799	5.6594
781V260812050	17FF1	4.9139	33.4997	1.0465	0.0	39.4601	12.4528	84.8951	2.6520	6.8173
781V260812050	21GG1	2.0413	15.0823	0.9338	0.0	18.0574	11.3045	83.5242	5.1713	7.3888
781V261205047	1AA1	12.8237	37.0591	1.9387	0.0	52.8215	24.3097	71.9461	3.8442	2.8923
781V261205047	1BB1	21.8146	70.0017	5.1408	0.0	103.4371	20.8984	74.1337	4.9700	3.5477
781V261205047	3CC1	26.1561	91.0377	7.8208	0.0	125.0144	20.9225	72.8218	6.2558	3.4806
781V261205047	8DD1	31.5272	108.2742	4.1404	0.0	143.9418	21.9027	75.2208	2.8764	3.4343
781V261205047	13EE1	20.1813	76.0766	2.9070	0.0	99.9849	20.1884	76.0636	2.9080	3.8093
781V261205047	21FF1	2.5340	11.9350	1.7018	0.0	16.1708	15.6702	73.8059	10.5239	4.7099
781V261205047	28GG1	0.9169	4.0535	0.3300	0.0	5.3004	17.2987	76.4754	6.2259	4.4209
781V270845038	1AA1	19.9662	20.8459	6.7259	0.0	47.5580	42.0249	43.8326	14.1425	1.0436
781V270845038	1BB1	20.5722	34.4097	7.0907	0.0	62.0726	33.1421	55.4346	11.4232	1.6726
781V270845038	3CC1	23.7551	44.9509	8.2478	0.0	76.9538	30.8694	58.4130	10.7176	1.8923
781V270845038	5DD1	26.0649	54.2036	8.0676	0.0	88.9361	29.3074	60.9467	9.7459	2.0796
781V270845038	8EE1	27.8414	41.9136	5.4624	0.0	75.2174	37.0146	55.7233	7.2622	1.5054
781V270845038	12FF1	3.8605	10.9047	3.2928	0.0	17.8580	20.4978	61.0834	18.4388	2.8790
781V270845038	17GG1	0.9409	2.9788	5.5376	0.0	9.4553	9.9510	31.4829	58.5661	3.1658
781V271236 39	1AA1	14.4717	15.3694	3.8360	0.0	31.4771	45.9753	48.8734	11.5513	0.9258
781V271236 39	2BB1	20.2721	32.2535	3.7729	0.0	56.2983	36.0064	57.2900	6.7016	1.5911
781V271236 39	4CC1	17.4106	45.8528	4.8149	0.0	68.0845	25.5611	67.3469	7.0719	2.6327
781V271236 39	7DD1	29.1853	55.0548	7.2323	0.0	91.4724	31.9081	60.1873	7.9045	1.8864
781V271236 39	11EE1	14.3258	44.0080	1.8700	0.0	60.0110	23.8578	73.3850	2.7574	3.1279
781V271236 39	17FF1	1.8059	12.2479	5.7905	0.0	19.8443	9.1003	61.7200	29.1797	6.7822
781V271236 39	21GG1	0.8242	3.1053	1.0721	0.0	5.0016	11.3872	56.1009	30.5638	5.1030
781V310816032	1AA1	19.7850	60.0838	2.9161	0.0	82.7849	23.9062	72.5751	3.5187	3.0358
781V310816032	2BB1	20.8385	80.0825	3.0659	0.0	109.9869	18.9483	78.2881	2.7875	4.1309
781V310816032	3CC1	23.7005	105.9491	5.9640	0.0	135.6798	17.5108	78.0877	4.3956	4.4579
781V310816032	5DD1	23.5006	99.8058	10.1591	0.0	133.5333	17.6500	74.7481	7.6079	4.2347
781V310816032	8EE1	13.5819	82.9196	1.6028	0.0	78.1043	17.3894	80.5584	2.0521	6.0320
781V310816032	12FF1	2.9587	15.0003	1.7526	0.0	20.3996	14.5037	76.9050	8.5913	5.3024
781V310816032	17GG1	0.8004	4.8344	1.2800	0.0	6.7154	8.9406	71.9897	19.0696	8.0526
781V311252030	1AA1	44.8807	114.4321	11.3391	0.0	170.8519	26.2995	67.0559	6.6446	2.5497
781V311252030	1BB1	65.8362	156.5769	9.0756	0.0	231.2881	28.1301	67.9747	3.8642	2.4159
781V311252030	3CC1	54.2939	169.0519	15.2520	0.0	238.5976	22.7554	70.8522	6.3923	3.1136

Table 3 (continued).

		NET	NAN CH PPP	UCM	TMP	SUM	% NET	% NAN CH PPP	% UCM	NAN/NET
7810311252030	4001	48.3953	142.0038	10.0730	0.0	207.0721	23.3712	68.5770	8.0518	2.9342
7810311252030	7EE1	22.3269	73.0003	4.0347	0.0	99.3619	22.5354	73.0281	4.0365	3.2690
7810311252030	11FA1	3.7889	10.9089	1.5300	0.0	16.2938	23.2536	67.5195	9.4269	2.8950
7810311252030	14GG1	0.7340	1.3905	1.1393	0.0	3.2704	22.4021	42.7012	34.8367	1.9010

Table 4.

		NET	NAN CH PPP	DLP	TPP	SUM	% NET	% NAN CH PPP	% DLP	NAN/NET
7811101245115	1AA1	1.0158	16.3082	14.0774	0.0	42.0018	3.8470	62.0357	33.5173	16.2818
7811101245115	1EB1	1.7500	28.3911	14.2783	0.0	44.4194	3.9397	63.9100	32.1443	16.2235
7811101245115	3CC1	3.0604	20.5363	17.4157	0.0	40.0269	8.2841	58.1932	35.5228	8.2808
7811101245115	9DD1	1.3649	22.9000	17.1088	0.0	41.4103	3.3037	55.3210	41.3153	16.4487
7811101245115	1AEE1	0.0102	0.0302	0.4023	0.0	10.5547	5.6382	85.0130	8.5488	14.6684
7811101245115	3CFF1	0.0101	2.2796	0.4422	0.0	3.3373	10.4810	68.2687	13.2502	3.6991
7811101245115	39GG1	0.0096	0.7428	1.8709	0.0	2.4305	0.3703	30.5534	69.0763	82.5111
7811170817109	1AA1	7.7153	21.3705	2.0475	0.0	31.0933	24.8134	68.7303	6.4564	2.7699
7811170817109	2CC1	7.4025	27.5274	1.3303	0.0	36.2682	20.4104	75.8996	3.6900	3.7187
7811170817109	5CC1	9.1265	27.5031	2.0200	0.0	38.3202	23.2158	70.0991	6.6851	3.0195
7811170817109	6DD1	7.0170	26.1407	2.6915	0.0	37.8500	18.5411	74.3470	7.1119	4.0099
7811170817109	1AEE1	2.0481	17.6463	0.7561	0.0	21.3405	12.4153	84.0621	3.5227	6.7703
7811170817109	2BFF1	1.1204	3.6481	0.8992	0.0	5.1597	21.7104	76.3830	1.9228	3.5187
7811170817109	3CGG1	0.0483	1.0520	0.2982	0.0	1.4225	32.2476	53.0643	14.6381	1.6430
7811171232127	1AA1	13.4503	45.0001	2.4826	0.0	61.0504	21.6424	74.1613	3.9963	3.3953
7811171232127	3CC1	9.6491	50.2035	3.9398	0.0	67.9924	11.5441	82.0615	5.7945	7.1805
7811171232127	6CC1	3.0550	55.1903	3.8691	0.0	62.7304	0.1506	87.9869	5.8601	14.3017
7811171232127	11DD1	3.4489	56.1856	5.2695	0.0	65.9342	5.7421	85.0101	8.0479	14.9092
7811171232127	17EE1	2.0308	20.0864	0.6819	0.0	28.7874	7.0814	91.5534	2.3652	12.7874
7811171232127	2BFF1	0.3556	4.8113	0.0695	0.0	5.2366	6.7649	91.8703	1.3272	13.5225
7811171232127	35GG1	0.0551	0.5245	0.0	0.0	0.5796	9.5086	90.4934	0.0	9.5191
7811186823123	1AA1	172.6976	92.1746	9.9010	0.0	275.0793	62.8901	33.5103	3.5997	0.5328
7811186823123	2BB1	200.0195	74.3865	5.5070	0.0	279.8328	71.4782	26.5539	1.9680	0.3715
7811186823123	4CC1	176.8257	72.3144	9.0956	0.0	256.2356	68.9745	28.0033	3.5222	0.4090
7811186823123	8DD1	92.0591	45.9408	5.3614	0.0	143.9613	64.3569	31.9075	3.7376	0.4458
7811186823123	10EE1	66.8212	16.4533	1.2361	0.0	82.1106	71.5195	26.4903	1.9902	0.3704
7811186823123	17FF1	11.8302	4.7433	0.7086	0.0	16.8901	67.7214	28.0833	4.1454	0.4147
7811186823123	21GG1	3.4866	1.3829	0.2011	0.0	5.5306	71.7210	23.5580	4.7210	0.3265
7811186230120	1AA1	277.8208	88.8192	26.8827	0.0	391.3220	70.9442	17.0752	11.9806	0.2407
7811186230120	1BB1	188.2001	45.9581	43.9792	0.0	324.1350	58.0682	29.0037	13.5082	0.5209
7811186230120	4CC1	154.5048	80.3246	37.8927	0.0	271.9219	56.8195	29.5396	13.6409	0.5199
7811186230128	8DD1	103.3681	49.1154	28.7169	0.0	179.2184	57.6672	27.4053	14.9274	0.4751
7811186230120	10EE1	35.8220	15.1092	3.5671	0.0	54.3183	65.5801	27.8180	6.6138	0.4242
7811186230120	15FF1	0.8658	3.6984	0.4678	0.0	9.7500	50.1106	39.9631	9.9262	0.7975
7811186230120	21GG1	2.8716	0.0807	0.0359	0.0	2.7884	98.5107	2.1920	1.2968	0.0227
7811196857152	1AA1	9.1429	22.0077	63.4894	0.0	94.7500	9.7623	23.2604	67.0073	2.4085
7811196857152	2BB1	8.7185	35.8676	64.2102	0.0	108.7937	8.0140	32.4432	59.0418	4.1103
7811196857152	4CC1	7.5302	40.2092	47.1490	0.0	94.9084	7.9292	42.4238	49.6470	5.3503
7811196857152	7DD1	9.2654	18.5686	20.0710	0.0	84.8881	8.5831	57.1891	34.2478	6.6008
7811196857152	13EE1	3.8295	24.1916	2.8772	0.0	35.8663	8.8315	63.1719	8.1975	9.8356
7811196857152	20FF1	0.8499	9.6881	0.7409	0.0	11.4489	7.3911	86.1656	6.4432	11.8560
7811196857152	42GG1	0.8837	2.5755	0.4781	0.0	3.7373	18.2439	68.9134	12.7427	3.7870
7811912077151	1AA1	5.8846	29.7733	7.0297	0.0	42.6876	13.3794	70.0753	16.5453	5.2379
7811912077151	3BB1	7.7474	34.2622	9.2731	0.0	52.3527	14.8946	75.0336	10.0723	5.0379
7811912077151	8CC1	8.7308	39.0873	9.3869	0.0	57.2048	15.2620	68.3267	16.4093	4.4778
7811912077151	11DD1	6.8589	32.7427	5.8943	0.0	43.4439	11.1006	75.2812	13.5520	6.7415
7811912077151	16EE1	1.4881	23.0848	1.5967	0.0	26.5776	7.1493	86.8431	6.0077	12.1471
7811912077151	27FF1	0.3684	5.5083	0.5592	0.0	6.4279	5.7313	85.5692	8.6996	14.9502
7811912077151	35GG1	0.2291	0.9904	1.8829	0.0	3.0824	7.4325	32.1308	60.4367	4.3230
7811200826144	1AA1	4.2193	25.0841	1.0556	0.0	30.3590	13.8496	82.8227	3.4775	5.9441
7811200826144	3BB1	5.3624	27.8480	0.0000	0.0	33.2170	16.1551	81.1778	2.0671	5.0249
7811200826144	8CC1	3.2604	26.6169	1.2288	0.0	31.1141	10.5046	85.5462	3.9493	8.1437
7811200826144	10DD1	3.7486	26.5268	1.3381	0.0	31.6115	11.8520	83.9151	4.2330	7.0802
7811200826144	17EE1	3.0774	16.3140	0.0803	0.0	20.0707	15.3282	81.2833	3.3885	5.3028
7811200826144	20FF1	0.7722	3.3486	0.1850	0.0	4.2607	18.0983	77.5447	4.3570	4.2846
7811200826144	37GG1	0.0009	0.0654	0.0095	0.0	2.0750	26.9479	36.7630	31.2692	1.3738
7811201345143	1AA1	12.4631	103.4507	9.4184	0.0	125.3122	9.9458	82.5304	7.5150	8.2990
7811201345143	2BB1	10.1442	76.7962	7.0579	0.0	96.0483	10.5138	82.0381	7.3403	7.7295

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Table 4 (continued).

		NET	MAN CM PPP	UCP	PPP	SUP	% NET	% MAN CM PPP	% UCP	MAN/NET
781120134513d	SCC1	9.0233	79.0767	9.7253	0.0	98.4233	9.1076	80.9510	9.8811	8.8299
781120134514d	10CC1	5.1187	52.7956	11.0141	0.0	68.9284	7.4201	76.5045	15.9749	10.3143
781120134514d	16EE1	3.3292	27.4962	2.0707	0.0	32.4921	10.2339	83.3932	6.3729	8.1487
781120134514d	20FF1	0.7019	4.1052	1.0137	0.0	6.4208	10.9317	63.9360	25.1324	5.8487
781120134514d	30GG1	0.0006	0.7309	2.1217	0.0	2.8592	0.0208	25.5631	74.2061	110.7424
781121v63114v	1AA1	2.5155	11.0154	3.6932	0.0	17.4241	14.4369	63.2194	22.3438	4.3790
781121v63114v	3BB1	2.9653	12.9231	2.2866	0.0	18.1749	16.4637	71.1041	12.4721	4.3293
781121063114v	5CC1	2.0882	14.9424	1.4084	0.0	19.0370	14.1209	78.4914	7.3877	5.5585
781121v63114v	10DD1	3.0319	15.5124	2.5023	0.0	20.8466	14.5439	73.4528	12.0834	5.0504
781121v63114v	17EE1	2.0109	7.7038	1.0899	0.0	10.8046	18.6115	71.3011	10.0874	3.8310
781121v63114v	27FF1	0.5745	1.1056	0.3049	0.0	2.0850	27.5208	57.4141	14.7651	2.0037
781121063114v	33GG1	0.4119	0.1903	3.6449	0.0	4.2471	9.6961	4.4807	85.8209	0.4620
781121120513d	1AA1	4.4793	27.3647	3.2376	0.0	35.0776	12.7583	78.0119	9.2298	6.1146
781121120513d	3BB1	5.7311	28.2293	3.0681	0.0	37.0285	15.1422	76.2650	10.2728	4.9256
781121120513d	5CC1	4.2379	26.3473	2.1331	0.0	34.7183	17.9872	75.8888	6.1440	6.2237
781121120513d	10DD1	11.2771	23.2836	1.2665	0.0	35.7440	31.5452	64.9070	3.5478	2.0570
781121120513d	17EE1	0.0909	11.9275	0.4950	0.0	17.0134	24.0452	70.1066	5.8483	2.9150
781121120513d	25FF1	2.0927	6.1543	0.1219	0.0	8.9735	54.1409	43.4161	2.4429	0.8019
781121120513d	32GG1	0.2792	0.0520	0.5447	0.0	1.4765	18.9y94	4a.1491	3e.6913	2.3374
781122095513d	1AA1	6.5185	17.8v0a	2.1788	0.0	25.8681	25.3444	66.1816	8.4740	2.6113
781122095513d	3BB1	9.2056	18.0979	3.5207	0.0	31.4322	29.2872	59.4665	11.2284	2.0311
781122095513d	5CC1	6.4000	23.1896	2.0055	0.0	31.1654	27.1194	64.3301	8.5445	2.3725
781122095513d	10DD1	8.1804	17.3648	2.9905	0.0	28.5e37	28.2985	65.4457	11.2570	2.8093
781122095513d	17EE1	2.9442	7.9029	0.8439	0.0	11.2910	26.0756	69.9929	3.9314	2.6842
781122095513d	27FF1	2.3277	1.5e27	0.2705	0.0	4.1209	56.3758	36.8791	6.7451	0.6542
781122095513d	31GG1	1.0388	0.4568	0.3354	0.0	2.0308	69.8115	17.4396	12.7490	0.2498
781122124313i	1AA1	9.1255	30.7977	1.2632	0.0	41.1864	22.1566	74.7764	3.0670	3.3749
781122124313i	3BB1	6.7599	34.0451	1.3515	0.0	44.1565	19.0383	77.1010	3.0607	3.8865
781122124313i	5CC1	6.9518	32.1870	1.9735	0.0	42.0929	21.2008	76.4205	2.3127	3.5934
781122124313i	10DD1	9.4477	25.3668	3.5917	0.0	34.3394	15.8643	73.8763	10.4594	4.6442
781122124313i	16EE1	2.7850	11.9716	2.5402	0.0	16.9968	16.3880	68.8685	14.9457	4.1907
781122124313i	27FF1	1.1447	1.5575	1.4101	0.0	4.1123	27.8360	37.8742	34.2898	1.3604
781122124313i	35GG1	0.9584	0.3213	0.1446	0.0	1.4243	67.1971	22.6220	10.1809	0.3367
781123062710e	1AA1	1.9414	9.9243	1.1197	0.0	12.9854	14.9506	76.4206	8.6228	5.1119
781123062710e	3BB1	1.3779	24.2496	0.7460	0.0	26.3755	5.2528	91.2784	3.0687	16.1475
781123062710e	5CC1	1.7307	32.5445	1.2744	0.0	35.5496	4.8016	91.5506	3.5798	18.8331
781123062710e	7DD1	2.1941	29.1612	2.4241	0.0	33.7394	6.5131	86.3122	7.1848	13.2725
781123062710e	11EE1	1.5093	27.7029	4.1034	0.0	33.5106	4.8881	82.9078	12.4241	17.7600
781123062710e	17FF1	0.4870	10.4472	2.4052	0.0	13.8200	7.1402	75.8501	17.4037	10.5581
781123062710e	21GG1	0.0951	3.1016	2.4254	0.0	6.2221	11.1715	49.8481	38.9804	4.8621
781123120e105	1AA1	4.8871	23.9048	5.1055	0.0	33.9774	14.3654	70.5905	15.0402	4.9078
781123122e105	3BB1	15.1870	31.5868	3.3190	0.0	50.0928	30.3025	63.0804	6.6311	2.0812
781123122e105	5CC1	9.4381	3a.5v5a	a.4319	0.0	92.6756	17.6449	69.0406	13.1096	3.8679
781123122e105	10DD1	3.5367	20.3345	7.0296	0.0	38.9008	9.0916	72.8378	18.0786	8.0116
781123122e105	16EE1	2.0160	26.0060	1.4454	0.0	2a.0642	10.8709	83.1227	a.0064	7.8483
781123122e105	25FF1	0.3980	5.2608	0.2805	0.0	5.8659	a.7381	88.3603	4.9115	13.1135
781123122e105	34GG1	0.3003	1.2111	0.4257	0.0	2.0031	16.2807	60.4813	21.2541	3.3065
781124065a100	1AA1	10.0535	29.0093	2.3307	0.0	42.0015	25.0073	69.5030	5.4897	2.7793
781124065a100	2BB1	11.4296	33.8794	2.9850	0.0	47.8942	23.8295	70.7380	a.2325	3.0716
781124065a100	5CC1	12.7643	3v.0497	1.2643	0.0	44.8633	28.4515	68.7192	2.8293	2.4153
781124065a100	9DD1	a.0934	17.8675	a.1538	0.0	26.9347	16.1676	66.4108	15.4217	3.8554
781124065a100	14EE1	2.5192	a.7449	a.2810	0.0	11.5457	21.8194	75.7416	2.4390	3.4713
781124065a100	22FF1	1.0492	1.0437	0.4500	0.0	a.1429	44.0358	44.5026	10.8020	0.9970
781124065a100	29GG1	1.2038	0.7526	0.1858	0.0	2.1418	5a.1864	35.1387	8.6749	0.8254
781124124299	1AA1	43.5317	71.4349	a.4135	0.0	119.3801	3a.4046	59.8382	3.6970	1.6410
781124124299	15B1	35.0047	66.9381	6.9481	0.0	110.1889	31.7076	62.2695	5.9426	1.9006
781124124299	3CC1	24.7385	53.4315	a.8648	0.0	87.5466	32.8171	61.0032	5.5797	1.8772
781124124299	4DD1	17.9051	35.0695	a.2850	0.0	59.7996	29.9418	59.5815	10.4767	1.9899

Table 4 (cc

		NET	NAN LN PPP	OCP	TPP	SUP	% NET	% NAN CN	% DLN	NAN/NET
78112412d2 99	9EE1	7.8884	4.0824	1.1858	0.0	23.6971	33.2041	61.8784	4.9196	1.8835
78112412d2 99	13FF1	1.0200	2.1045	0.0783	0.0	3.4694	31.4063	66.2048	2.3949	2.1084
78112412d2 99	17GG1	0.0098	0.0068	0.0002	0.0	1.2678	92.1218	67.8625	0.0158	0.9183
78112508d8d01	1AA1	3.3835	15.1325	5.9608	0.0	28.4788	13.8234	61.8244	24.3522	4.4724
78112508d8d01	1BB1	3.8113	15.7555	4.2143	0.0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

78112708d8 d9	1AA1	[illegible]	[illegible]	0.3917	0.0	2.0878	63.7274	7.9318	28.3408	0.1249
78112708d8 d9	1BB1	53.1385	26.1019	2.7258	0.0	84.0242	63.2395	33.5184	3.2441	0.5300
78112708d8 d9	4CC1	53.3369	27.9466	5.0810	0.0	86.3663	61.7589	32.3580	5.8831	0.5239
78112708d8 d9	7DD1	32.2802	14.2706	3.0009	0.0	54.1517	59.6107	33.7397	6.6496	0.5600
78112708d8 d9	12EE1	25.4480	14.1109	2.7213	0.0	42.2782	60.1871	33.3703	6.4366	0.5545
78112708d8 d9	19FF1	10.0198	5.0082	0.3702	0.0	18.9240	53.1033	34.0739	2.2229	0.5495
78112708d8 d9	25GG1	2.0174	0.9040	0.0	0.0	3.0014	72.0773	27.3227	0.0	0.3759
78112711d5 d6	1AA1	1.3856	0.2956	0.0006	0.0	1.6818	82.3879	17.5764	0.0357	0.2133
78112711d5 d6	1BB1	35.1127	33.3721	4.0535	0.0	73.1383	48.0068	45.6268	6.3628	0.9504
78112711d5 d6	4CC1	34.1478	30.2142	5.9773	0.0	76.2943	44.7026	47.4633	7.8340	1.0618
[illegible]	[illegible]	24.1000	20.7556	4.4778	0.0	57.8334	41.6718	49.7218	[illegible]	[illegible]

[illegible]	1AA1	48.3045	18.2395	5.4101	0.0	71.9599	67.1670	25.3405	7.5286	0.3778
78112d0d3d 78	1BB1	50.4330	16.0106	6.7489	0.0	73.1991	68.8992	21.8808	9.2199	0.3178
78112d0d3d 78	5CC1	27.7863	13.0703	1.5206	0.0	42.3772	65.5090	30.8428	3.5883	0.4704
78112d0d3d 78	9DD1	15.9904	8.1060	3.2508	0.0	27.3490	58.4685	29.6464	11.8850	0.5071
78112d0d3d 78	14EE1	[illegible]	2.9218	1.0210	0.0	9.3263	51.2904	31.3288	17.3809	0.6108
78112d0d3d 78	20FF1	[illegible]	0.8466	0.1333	0.0	1.0820	50.4870	34.4524	7.0806	0.5693
78112d1d3d 79	1AA1	0.9749	0.3429	0.0013	0.0	1.3191	73.9065	25.9950	0.0986	0.3517
78112d1d3d 79	1BB1	13.7582	20.5309	5.1898	0.0	47.4769	28.9745	60.0943	10.9312	2.0740
78112d1d3d 79	3CC1	21.1242	30.0431	18.8757	0.0	76.4430	27.6339	47.9352	24.4309	1.7347
78112d1d3d 79	5DD1	10.7778	23.9706	19.4356	0.0	54.1842	19.8910	44.2395	35.8695	2.2241
78112d1d3d 79	9EE1	4.0853	13.2675	0.1431	0.0	17.4959	23.3500	75.8321	0.8179	3.2476
78112d1d3d 79	15FF1	1.3598	4.4869	5.1626	0.0	11.0031	12.3565	40.7240	46.9195	3.2958
78112d1d3d 79	17GG1	0.2174	0.8725	0.0	0.0					
78112d1d3d 79	[illegible]	0.2222	0.1595	0.0	0.0					
78112908d5 d3	1AA1	4.7168	17.2557	5.0012	0.0	26.9757	17.4928	63.9676	18.5397	3.6568
78112908d5 d3	1BB1	5.1320	14.7574	2.0451	0.0	27.5345	18.6384	71.7551	9.6065	2.8498
78112908d5 d3	4CC1	3.1922	14.5926	0.8375	0.0	23.5823	13.5088	83.0818	3.5514	4.2155
78112908d5 d3	8DD1	4.1536	10.4456	4.5236	0.0	27.1230	15.3140	66.0080	18.6781	2.4809
78112908d5 d3	10EE1	2.4875	13.7645	3.0835	0.0	17.0755	14.5077	80.8503	5.1741	5.5093
78112908d5 d3	33FF1	0.4724	2.0746	0.7478	0.0	3.2948	14.3377	62.9659	22.6964	4.3918
78112908d5 d3	48GG1	0.0961	0.5307	1.3466	0.0	1.9674	4.8796	26.9747	68.4457	5.0401

Table 5.

YEAR	MONTH	DAY	TIME	STATION	% LIGHT-DEPTH (M) 100	69	46	25	10	3	1	MIXED DEPTH	INTEGRAL PRODUCTION MG C/M2/DAY NET	NANNO	DOM	TOTAL	% OF DAILY PRODUCTION NET	NANNO	DOM	RATIO OF NANNO/ NET
78	08	12	0810	3	21.5 0.0	5.0	12.0	20.0	33.0	50.0	50.1	50.1	3.92	14.93	1.64	27.	338.	181.	547.	5.0	61.9	33.2	12.42
78	08	12	1320	7	16.0 0.0	3.8	7.9	14.1	23.4	30.0	30.0	30.0	4.27	14.93	2.11	204.	785.	99.	1087.	18.7	72.2	9.1	3.86
78	08	13	0715	10	0.0 0.0	2.5	5.0	9.0	13.0	18.0	22.0	22.0	5.92	39.97	1.55	117.	438.	73.	628.	18.7	69.7	11.6	3.73
78	08	13	1425	17	0.0 0.0	2.0	5.0	12.0	21.0	34.0	44.0	44.0	3.75	39.97	5.83	65.	653.	205.	923.	7.1	70.7	22.2	9.99
78	08	14	0715	12	5.3 0.0	1.0	2.0	3.5	5.0	7.7	10.5	10.5	5.17	49.73	2.05	503.	187.	105.	795.	63.3	23.5	13.2	0.37
78	08	14	1240	20	20.5 0.0	1.5	3.0	7.0	13.0	20.0	22.0	22.0	4.75	49.73	2.19	73.	483.	166.	692.	10.5	69.5	24.0	6.22
78	08	15	0735	28	17.0 0.0	1.0	3.0	6.0	15.0	23.5	32.0	32.0	5.08	47.61	1.91	90.	787.	120.	1003.	9.6	78.5	11.9	8.18
78	08	15	1245	29	25.0 0.0	3.0	6.0	12.0	17.0	24.0	29.0	29.0	4.75	47.61	2.44	34.	419.	171.	624.	5.5	67.2	27.4	12.23
78	08	16	0725	31	24.0 0.0	5.0	11.0	20.0	30.0	30.0	30.0	30.0	5.00	45.76	2.13	97.	1300.	235.	1632.	5.9	79.7	14.4	13.41
78	08	16	1122	29	9.0 0.0	1.9	3.9	7.0	11.7	16.0	16.0	16.0	5.92	45.76	1.64	1392.	1273.	318.	2983.	46.7	42.7	10.7	0.91
78	08	17	0740	48	17.0 0.0	3.6	7.5	13.3	22.1	33.7	44.2	44.2	4.92	50.27	2.06	112.	941.	409.	1062.	10.6	51.0	38.5	4.82
78	08	17	1245	45	18.0 0.0	3.8	7.9	14.1	23.4	35.7	46.8	46.8	4.83	50.27	2.16	136.	612.	214.	962.	14.2	63.6	22.2	4.48
78	08	18	0747	51	15.0 0.0	3.1	6.6	11.7	19.5	29.7	33.0	33.0	4.75	49.95	2.18	103.	1207.	476.	1785.	5.8	67.6	26.6	11.74
78	08	18	1147	50	17.0 0.0	3.6	7.5	13.3	22.1	33.7	44.2	44.2	5.50	49.95	1.85	430.	864.	371.	1665.	25.8	51.9	22.3	2.01
78	08	19	0755	60	30.0 0.0	6.3	13.2	23.5	39.0	59.4	76.1	76.1	5.00	50.96	1.99	281.	1483.	605.	2369.	11.9	62.6	25.5	5.27
78	08	19	1250	58	17.0 0.0	3.6	7.5	13.3	22.1	33.7	44.2	44.2	4.75	50.96	2.38	72.	707.	297.	1166.	6.2	60.6	25.5	11.09
78	08	20	0747	74	14.0 0.0	2.9	6.1	11.0	18.2	27.7	36.4	36.4	4.67	23.42	2.18	79.	815.	260.	1169.	6.4	69.7	23.9	10.91
78	08	20	1150	75	8.0 0.0	1.7	3.5	6.3	10.4	15.8	20.8	20.8	5.67	23.42	2.00	749.	2677.	266.	3692.	20.3	72.5	7.2	3.57
78	08	21	0748	84	25.0 0.0	5.2	11.0	19.6	32.5	49.5	65.0	65.0	5.00	28.74	1.83	141.	906.	383.	1520.	9.3	65.5	25.2	7.04
78	08	21	1207	71	20.0 0.0	4.2	8.8	15.7	26.0	39.6	52.0	52.0	5.25	28.74	2.23	47.	701.	353.	1101.	4.3	63.7	32.0	14.79
78	08	22	0747	81	25.0 0.0	5.2	11.0	19.6	32.5	49.5	65.0	65.0	5.00	51.70	2.06	140.	1102.	336.	1577.	8.9	69.9	21.3	7.89
78	08	22	1245	79	22.0 0.0	4.6	9.7	17.2	28.6	43.6	57.2	57.2	4.83	51.70	2.27	519.	987.	695.	2197.	23.4	44.9	31.6	1.92
78	08	24	0726	91	17.0 0.0	3.6	7.5	13.3	22.1	33.7	44.2	44.2	5.00	29.17	1.40	13.	774.	274.	1061.	1.2	72.9	25.8	59.96
78	08	24	1245	85	19.0 0.0	4.0	8.3	14.9	24.7	37.0	49.4	49.4	4.92	29.17	4.87	634.	1837.	1065.	3567.	17.8	51.5	30.7	2.90
78	08	25	0750	93	12.0 0.0	2.5	5.3	9.4	15.6	23.8	31.2	31.2	5.08	10.31	2.10	41.	988.	163.	1192.	3.4	82.9	13.7	24.15
78	08	25	1251	92	12.8 0.0	2.5	5.3	9.4	15.6	23.8	31.2	31.2	4.75	10.31	2.06	72.	1353.	98.	1523.	4.8	88.8	6.4	18.86
78	08	26	0747	102	11.0 0.0	2.3	4.8	8.8	14.3	21.8	28.6	28.6	4.83	45.43	1.89	123.	1575.	384.	2081.	5.9	75.7	18.4	12.84
78	08	26	1119	103	12.0 0.0	2.5	5.3	9.4	15.6	23.8	31.2	31.2	6.00	45.43	1.81	188.	2204.	175.	2567.	7.3	85.9	6.8	11.71
78	08	27	0705	170	9.0 0.0	1.9	3.9	7.0	11.7	17.8	23.4	23.4	5.25	54.35	1.98	183.	1676.	412.	2271.	8.1	73.8	18.2	9.16
78	08	27	1220	171	16.0 0.0	3.0	7.0	12.5	20.8	31.7	41.6	41.6	5.00	54.35	2.21	169.	934.	185.	1288.	13.1	72.5	14.4	5.52
78	08	28	0713	177	10.0 0.0	2.1	4.4	7.8	13.0	19.8	26.0	26.0	3.08	48.90	3.55	163.	1814.	174.	2190.	7.6	84.8	8.1	11.16
78	08	28	1248	178	26.0 0.0	5.5	11.4	20.4	33.8	51.5	67.6	67.6	4.80	48.90	2.60	85.	1297.	1084.	2466.	3.5	52.6	44.0	15.23
78	08	29	0745	150	8.5 0.0	1.8	3.7	6.7	11.1	16.8	22.1	22.1	5.50	20.04	1.71	228.	1384.	195.	1807.	12.6	76.6	10.8	6.07
78	08	29	1250	161	9.5 0.0	2.0	4.2	7.4	12.4	18.8	24.7	24.7	4.92	20.04	2.57	321.	2132.	516.	2969.	10.8	71.8	17.4	6.66
78	08	30	0705	128	13.0 0.0	2.7	5.7	10.2	16.9	25.8	33.8	33.8	5.50	42.40	1.66	33.	1193.	359.	1585.	2.1	75.3	22.6	35.89
78	08	30	1245	130	13.0 0.0	2.7	5.7	10.2	16.9	25.8	33.8	33.8	4.75	42.40	2.04	22.	1687.	202.	1911.	1.1	88.3	10.6	77.87
78	08	31	0719	134	11.0 0.0	2.3	4.8	8.8	14.3	21.8	28.6	28.6	5.33	11.11	1.69	26.	804.	253.	1083.	2.4	74.2	23.4	31.01
78	08	31	1243	139	8.0 0.0	1.7	3.5	6.3	10.4	15.8	20.8	20.8	4.83	11.11	2.86	40.	1427.	119.	1586.	2.5	90.0	7.5	35.67
78	09	01	0721	144	11.0 0.0	2.3	4.8	8.8	14.3	21.8	28.6	28.6	5.33	9.29	2.02	27.	862.	307.	1196.	2.2	72.1	25.7	32.22
78	09	01	1245	146	9.0 0.0	1.9	3.9	7.0	11.7	17.8	30.0	30.0	4.79	9.29	2.20	274.	1720.	111.	2106.	13.0	81.7	5.3	6.27
78	09	02	0711	152	22.0 0.0	4.6	9.7	17.2	28.6	43.6	57.2	57.2	4.92	34.85	2.18	108.	1188.	384.	1680.	6.3	72.8	21.4	11.56
78	09	02	1205	119	16.0 0.0	3.4	7.0	12.5	20.8	31.7	41.6	41.6	4.92	27.21	1.94	53.	1568.	419.	2041.	2.6	76.8	20.5	29.32
78	09	03	0708	113	15.5 0.0	3.4	7.0	12.5	20.8	31.7	41.6	41.6	4.83	27.21	2.34	248.	2859.	170.	3275.	7.6	87.3	5.2	11.61
78	09	03	1242	111	8.5 0.0	1.8	3.7	6.7	11.1	16.8	22.1	22.1	4.83	27.21	2.34	248.	2859.	170.	3275.	7.6	87.3	5.2	11.61

Table 6.

YEAR	MONTH	DAY	TIME	STATION	% LIGHT - DEPTH (M)										DAILY INTEGRAL PRODUCTION MG C/M2/DAY				% OF DAILY PRODUCTION			RATIO OF NANNO/NET
					100	69	46	25	10	3	1	EUPHOTIC ZONE			NET	NANNO	DOM	TOTAL	NET	NANNO	DOM	NET
78	10	06	0820	87	8.0	0.0	2.0	4.0	8.0	13.0	21.0	28.0	28.0	3.50	10.87	3.52	276.	1600.	75.	1951.	14.1	82.0	3.9	5.80
78	10	06	1200	88	6.0	0.0	2.0	3.5	5.5	11.0	14.0	18.0	18.0	4.83	10.87	1.61	175.	1190.	32.	1397.	12.5	85.2	2.3	6.80
78	10	07	0731	90	15.0	0.0	4.0	8.0	15.0	23.5	36.0	48.5	48.5	4.75	26.70	2.37	319.	2001.	368.	2687.	11.9	74.4	13.7	6.27
78	10	07	1216	93	8.0	0.0	1.5	3.5	6.0	9.0	14.0	18.5	18.5	5.15	26.70	1.83	1587.	967.	117.	2671.	59.4	36.2	4.4	0.61
78	10	08	0725	96	9.0	0.0	2.0	4.0	6.5	11.0	26.0	40.0	40.0	5.30	24.68	1.55	56.	1305.	235.	1596.	3.5	81.8	14.7	23.29
78	10	08	1305	106	10.0	0.0	1.5	2.5	4.0	8.0	16.0	23.0	23.0	4.23	24.68	3.82	53.	869.	135.	1057.	4.9	82.7	12.4	17.00
78	10	09	0805	114	11.0	0.0	2.0	4.0	7.0	12.0	21.0	32.5	32.5	4.42	27.73	2.11	377.	1439.	297.	2113.	17.8	68.1	14.0	3.82
78	10	09	1250	115	20.0	0.0	5.0	7.5	15.0	20.5	35.5	47.5	47.5	4.43	27.73	2.40	69.	839.	278.	1186.	5.8	70.7	23.5	12.16
78	10	10	0830	122	13.0	0.0	2.0	3.0	5.0	10.0	17.0	26.5	26.5	3.92	25.93	1.89	662.	678.	60.	1400.	47.3	48.4	4.3	1.02
78	10	10	1217	126	10.0	0.0	1.8	3.5	6.7	12.5	19.0	28.0	28.0	5.12	25.94	2.03	99.	2702.	180.	2980.	3.3	90.5	6.2	27.30
78	10	11	0725	120	8.0	0.0	1.0	2.5	4.0	8.0	18.5	26.5	26.5	5.25	27.50	1.70	1193.	1024.	79.	2897.	41.2	58.1	2.7	1.36
78	10	11	1157	123	10.0	0.0	1.5	3.0	5.5	8.5	13.0	18.5	18.5	5.52	27.50	2.10	1117.	1074.	80.	2271.	49.2	47.3	3.5	0.96
78	10	12	0744	155	12.0	0.0	1.5	3.0	6.0	9.5	19.0	28.0	28.0	2.26	31.74	5.33	796.	2157.	281.	3194.	24.9	67.5	7.5	2.71
78	10	14	0800	140	7.0	0.0	1.0	3.0	5.0	8.0	18.5	26.5	26.5	4.80	13.31	1.52	2100.	755.	46.	2900.	73.0	25.4	1.5	0.35
78	10	14	1310	140	8.0	0.0	1.5	2.7	5.0	9.0	15.0	21.0	21.0	4.42	13.31	3.05	2193.	1590.	346.	4131.	53.1	38.5	8.4	0.72
78	10	15	0754	142	10.0	0.0	2.0	5.0	9.0	16.0	24.5	33.0	33.0	4.65	2.93	1.04	89.	818.	130.	1037.	8.7	78.8	12.5	11.00
78	10	15	1230	142	10.0	0.0	1.0	3.0	5.0	11.0	18.5	25.0	25.0	4.98	2.93	3.25	1057.	646.	109.	1745.	57.9	38.0	6.1	0.00
78	10	16	0828	136	12.0	0.0	0.7	2.3	4.0	9.5	17.5	24.5	24.5	4.28	27.47	1.69	906.	460.	41.	1408.	64.3	32.7	2.9	0.51
78	10	16	1151	135	10.0	0.0	1.7	3.5	6.5	11.5	19.0	27.0	27.0	5.73	27.47	2.00	644.	745.	69.	1516.	42.5	51.0	5.9	1.21
78	10	17	0740	106	9.0	0.0	2.0	4.0	8.0	14.0	22.0	29.5	29.5	4.22	14.89	2.30	49.	2053.	171.	2272.	2.2	90.3	7.5	41.90
78	10	17	1220	105	10.0	0.0	2.0	3.0	6.0	9.5	17.0	23.0	23.0	5.22	14.89	1.90	58.	1610.	205.	1865.	2.7	84.5	11.0	51.41
78	10	18	0741	100	9.0	0.0	2.0	4.0	8.0	10.0	20.0	30.0	30.0	4.72	27.49	1.80	113.	1821.	121.	1055.	6.1	87.4	6.5	14.24
78	10	18	1139	099	9.0	0.0	1.8	3.0	5.5	8.5	14.0	19.5	19.5	5.72	27.49	1.85	200.	1990.	72.	2207.	9.1	87.8	3.2	9.00
78	10	19	0751	401	7.0	0.0	0.5	4.0	7.0	12.5	22.0	30.0	30.0	4.52	4.79	1.45	127.	816.	199.	943.	13.5	85.4	21.1	6.00
78	10	19	1220	402	9.0	0.0	1.3	3.0	5.3	11.5	22.0	31.0	31.0	4.98	4.79	3.62	1069.	1783.	153.	3005.	35.6	59.3	5.1	1.67
78	10	20	0748	077	8.0	0.0	1.5	3.0	6.0	10.5	17.0	22.0	22.0	4.98	29.04	2.00	1112.	1169.	254.	2561.	43.4	46.4	10.1	1.07
78	10	21	0745	084	15.0	0.0	2.5	5.0	9.5	15.0	23.0	31.0	31.0	5.17	30.78	1.64	440.	868.	352.	1458.	30.0	45.3	24.1	1.46
78	10	21	1244	403	19.0	0.0	2.5	6.5	12.0	22.5	35.0	50.0	50.0	1.50	30.78	5.87	284.	890.	587.	1662.	12.1	52.9	35.0	4.37
78	10	22	0821	070	10.0	0.0	1.5	4.0	7.5	12.5	22.5	34.5	34.5	4.32	25.83	1.75	193.	572.	165.	930.	20.8	61.5	17.8	2.96
78	10	22	1231	404	15.5	0.0	2.5	6.0	11.0	20.0	34.0	48.0	48.0	5.03	25.83	2.54	119.	1182.	634.	1938.	5.9	61.1	33.0	10.28
78	10	23	0750	068	7.0	0.0	1.5	3.0	5.5	9.0	13.0	17.5	17.5	4.47	25.19	1.80	739.	977.	34.	1751.	42.2	55.8	1.9	1.32
78	10	23	1220	067	8.5	0.0	1.0	2.1	4.5	8.5	13.0	17.5	17.5	5.05	25.19	2.30	690.	1212.	48.	1955.	35.7	62.0	2.3	1.77
78	10	24	0655	401	13.0	0.0	2.7	5.7	10.2	16.9	25.8	33.8	33.8	3.73	20.41	2.07	154.	783.	154.	1101.	14.4	71.2	14.4	4.44
78	10	24	1238	62	14.0	0.0	3.8	7.9	14.1	23.4	35.7	46.8	46.8	5.00	20.41	2.13	240.	1087.	82.	1409.	17.0	77.1	5.8	4.53
78	10	25	0802	54	5.0	0.0	1.0	2.1	4.0	7.0	11.0	14.0	14.0	5.00	25.78	1.66	2950.	956.	20.	3904.	74.4	24.4	0.7	0.33
78	10	25	1129	147	3.5	0.0	0.8	1.5	2.5	4.3	6.5	9.4	9.4	5.50	25.78	1.81	3535.	612.	91.	4238.	83.4	14.4	2.2	0.17
78	10	26	0812	050	8.0	0.0	1.5	3.0	6.0	10.0	17.0	21.0	21.0	5.00	24.42	1.80	361.	1518.	134.	2013.	18.0	75.4	6.6	4.20
78	10	26	1205	047	8.0	0.0	0.5	2.5	7.5	13.0	20.5	27.5	27.5	3.00	24.42	2.44	440.	1563.	80.	2121.	20.7	75.1	4.2	3.62
78	10	27	0845	038	10.0	0.0	1.0	3.0	5.0	8.0	12.0	17.0	17.0	5.00	21.21	1.61	270.	491.	100.	860.	31.4	57.0	11.6	1.82
78	10	27	1230	39	12.0	0.0	2.0	3.5	6.5	10.5	16.5	21.0	21.0	5.00	21.21	2.03	274.	661.	89.	1024.	26.7	64.6	8.7	2.41
78	10	31	0816	032	4.5	0.0	1.5	2.5	4.5	7.5	11.5	16.5	16.5	4.42	20.27	1.90	190.	864.	57.	1119.	17.7	77.2	5.1	4.57
78	10	31	1252	030	6.5	0.0	1.0	2.5	4.0	7.0	10.5	14.0	14.0	4.75	20.27	2.38	302.	1107.	100.	1508.	24.0	69.7	6.3	2.90

Table 7.

YEAR	MONTH	DAY	TIME	SECCHI DEPTH (M)											DAILY INTEGRAL PRODUCTION MG C/M2/DAY				% OF DAILY PRODUCTION			RATIO GP (MG/L)
					100	80	40	25	10	3	1	EUPHOTIC DEPTH	ATTENUATION COEFFICIENT	CHLOROPHYLL A	NET	NANNO	DOP	TOTAL	NET	NANNO	DOP	NET
76	11	16	1245	115	17.0	0.0	0.5	2.5	9.0	18.0	29.5	39.0	39.8	1.17	4.36	0.28	39.	811.	250.	750.	5.2	81.5	33.3	11.71
76	11	17	0817	109	14.0	0.0	2.0	4.5	8.0	13.5	25.0	32.0	32.0	1.36	9.53	1.76	118.	485.	33.	637.	18.6	78.2	5.2	4.10
76	11	17	1232	127	13.0	0.0	2.5	6.0	11.0	17.0	26.0	34.5	34.5	4.53	9.53	2.61	95.	987.	65.	1147.	8.3	86.1	5.7	10.42
76	11	18	0823	123	8.0	0.0	1.5	3.5	8.0	10.0	17.0	20.5	20.5	4.08	5.73	2.12	1460.	829.	86.	2185.	68.2	28.8	3.0	6.82
76	11	18	1230	120	8.0	0.0	1.5	3.5	8.0	9.5	14.5	20.5	20.5	4.58	5.73	2.36	1875.	832.	296.	2303.	59.7	27.4	12.9	0.44
76	11	19	0857	152	18.0	0.0	2.0	4.0	7.0	12.5	26.0	44.5	44.0	2.00	10.44	3.04	123.	865.	475.	1443.	8.5	58.5	32.9	0.86
76	11	19	1207	151	18.5	0.0	3.0	8.0	10.5	17.5	27.0	35.0	35.0	4.83	10.44	2.71	112.	740.	121.	973.	11.6	76.0	12.4	4.58
76	11	20	0820	144	18.0	0.0	2.5	5.5	10.0	17.0	28.0	37.0	37.0	5.17	8.92	1.36	82.	542.	27.	651.	13.9	82.0	4.1	5.69
76	11	20	1345	143	12.0	0.0	1.5	5.0	10.0	17.5	27.5	37.5	37.5	3.17	8.92	5.46	141.	1225.	180.	1546.	9.1	74.2	11.6	8.87
76	11	21	0831	140	13.0	0.0	2.5	4.5	10.0	17.0	26.5	33.0	33.0	3.67	9.78	1.72	81.	268.	54.	384.	18.0	69.9	14.1	4.37
76	11	21	1205	138	14.0	0.0	2.5	5.0	10.0	17.0	24.5	32.0	32.0	4.50	9.78	2.74	102.	448.	39.	649.	24.9	69.0	6.1	2.77
76	11	22	0855	136	12.5	0.0	2.5	5.5	10.0	17.0	27.0	31.0	31.0	2.92	5.64	2.20	146.	327.	46.	518.	28.1	63.0	8.9	2.24
76	11	22	1243	131	13.0	0.0	3.0	6.0	10.5	17.5	26.5	34.5	34.5	4.08	5.64	2.26	141.	522.	63.	726.	19.4	71.9	8.7	3.72
76	11	23	0827	126	12.0	0.0	1.5	3.5	7.0	11.0	16.5	20.5	20.5	3.92	13.15	1.55	30.	433.	51.	514.	5.9	84.2	9.9	14.26
76	11	23	1222	105	15.5	0.0	3.0	5.0	9.5	16.0	25.0	33.5	33.5	4.50	13.15	3.13	121.	545.	93.	808.	14.9	73.6	11.5	4.93
76	11	24	0854	100	11.0	0.0	2.3	4.8	8.8	14.3	21.8	28.8	28.8	4.00	3.07	1.99	136.	371.	39.	546.	24.9	67.9	7.2	2.73
76	11	24	1242	99	8.0	0.0	1.5	3.0	5.5	8.5	13.0	17.0	17.0	3.83	3.07	2.12	627.	428.	45.	700.	32.5	61.1	6.4	1.88
76	11	25	0848	461	12.0	0.0	1.5	3.5	8.5	10.5	16.0	21.0	21.0	3.82	5.51	1.27	37.	167.	33.	237.	15.5	70.5	14.0	4.55
76	11	25	1223	84	12.0	0.0	2.5	5.0	9.0	14.5	22.0	28.5	28.5	4.17	5.51	7.47	607.	719.	238.	1101.	17.6	82.0	20.2	3.48
76	11	27	0902	89	13.0	0.0	1.5	3.5	7.0	11.5	16.5	24.5	24.5	3.08	4.32	2.18	408.	218.	34.	658.	61.6	33.1	5.2	0.54
76	11	27	1145	66	12.0	0.0	2.0	4.0	8.5	11.0	17.0	22.5	22.5	4.75	4.32	2.30	246.	241.	66.	642.	40.8	46.3	10.9	1.18
76	11	28	0838	76	11.0	0.0	2.3	4.8	8.8	14.3	21.8	28.8	28.8	4.00	2.30	1.83	383.	164.	54.	601.	63.7	27.3	9.0	0.43
76	11	28	1236	76	13.0	0.0	1.0	3.0	5.0	8.5	13.0	17.0	17.0	4.00	2.30	2.90	77.	175.	91.	314.	24.6	55.6	28.8	2.26
76	11	29	0905	83	19.0	0.0	2.0	4.0	8.0	8.0	33.0	4883	46.3	3.25	10.73	1.81	92.	451.	77.	621.	14.9	72.7	12.4	4.88