Nutrient Sources and Distributions in Cobscook Bay

With Data Appendix

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FOREWORD

The following technical report has been prepared to serve as an archive of data supporting the Northeastern Naturalist publication entitled "Nutrient Sources and Distributions in Cobscook Bay" by Chris and Jean Garside. It consists of the manuscript itself, supporting tables and figures and a summary table of data. Investigators needing more detailed information may contact Peter F. Larsen at the Bigelow Laboratory.

Nutrient Sources and Distributions in Cobscook Bay

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ABSTRACT

The nutrient distribution in the highly productive, macrotidal Cobscook Bay, located in the northern Gulf of Maine, was investigated through a series of spring-neap cruises during the spring, summer and fall of 1995. Sampling design included three, five station transects at major constrictions in the bay and 21 peripheral stations in the principal coves and sub-embayments. Results indicate that Cobscook Bay is nutrient rich throughout the year and is potentially eutrophic. Plots of salinity against nitrate show that this is a totally natural circumstance brought about by an abundant supply of nutrients, most importantly nitrate, from the adjacent Gulf of Maine. Predictive nutrient algorithms fitted with a hydrodynamic model emphasize the high nitrate water entering the bay from the seaward end and diminishing in concentration with distance from the mouth. The plant biomass produced is heavily grazed resulting in high ammonium concentrations from excretion and regeneration. The high ammonium concentrations and its incomplete re-utilization by the phytoplankton strongly suggest that plant biomass is controlled by grazing. In other words, despite a high natural nutrient loading, natural grazing processes serve to limit the accumulation of plant material and potential eutrophication. Comparing all potential nitrogen fluxes indicates that man-made contributions are not significant to the overall nutrient budget of Cobscook Bay, although they may have local impacts.

INTRODUCTION

The same nutrients that are important for healthy growth of land plants, nitrogen and phosphorous, are also essential for the growth of marine plants. In the lighted upper portion of the sea, nitrogen may be available for plant growth as nitrate and ammonium, sometimes referred to as combined inorganic nitrogen. However, during the summer months it frequently becomes exhausted while other nutrients do not, so nitrogen is often considered the "limiting nutrient" (Ryther and Dunstan 1971). By limiting we mean that adding more nitrate or ammonium will cause an increase in plant growth rate and quantity (biomass), whereas adding other nutrients will cause little response. For this reason, in marine systems, study of combined inorganic nitrogen can tell us a lot about the health and productivity of a water body.

There is often a great deal of public concern about nutrients in both fresh and saltwater. They are, however, essential for marine life and healthy productive waters. Virtually all life in the oceans depends on a supply of nutrients to promote plant (phytoplankton and algal) growth. Herbivorous animals depend on the plants for their nutrition and become prey and food for larger animals. In the big picture, the amount of protein nitrogen that can be removed from a natural system, and this applies collectively to seaweed harvesting, shellfish digging and dragging, fishing, migratory bird feeding and a host of other activities, cannot exceed the supply of combined inorganic nitrogen to it, without depletion and ultimately detriment. Some of the most productive fisheries in the world are found in regions that have high natural rates of nutrient supply and high nutrient concentrations. The anchovy and similar fisheries of upwelling regions such as the coast of Chile are good examples, where high nutrient concentrations have direct economic value.

A frequent cause of concern when dealing with nutrients is that they may be present in excess. When this happens plant biomass increases dramatically and the process is called eutrophication. Eventually, biomass may reach such high concentrations that night-time respiration can use up all the dissolved oxygen in the water, causing anoxia that results in mass mortality of plants and animals alike. Generally, the problem leading to anoxic events is one of scale: that is, there is an enormous amount of nutrient producing activity, which is frequently human, and a limited, often inadequately flushed receiving water to absorb the nutrients. Anoxic events are actually quite rare and limited geographically. They can occur naturally, but they can occur as a result a variety of human activities. These include sources such as collected sewage discharge (Hudson Estuary / New York Bight), agricultural fertilizer and animal feed that is allowed to enter coastal waters without proper safeguard.

It is important to remember that high nutrient concentrations can be natural, do not necessarily lead to eutrophication, and can have tremendous ecological and economic value (Garside et al. 1978). Cobscook Bay is such a case.

BACKGROUND

We are interested in the distribution of nutrients in Cobscook Bay because they can tell us a lot about how the Cobscook Bay ecosystem works. Our study obtained samples from many locations within the Bay twice in May, twice in July, and in October and November of 1995. We chose these sample times to allow us to observe the start of the growing season for marine plants, its peak in the summer, and its decline in the fall. We hoped to see the nutrient distributions before plants started to use them, as they consumed them, when they were most utilized and then as use declined and ceased.

One problem with studying a region like Cobscook Bay is that a large volume of water moves in and out of the Bay on each tide on extremely strong currents. Indeed, tidal currents reach 2m/sec as a volume equal to the outflow of the Mississippi River passes through the narrow passages of Cobscook Bay on each ebb and flood tide (Brooks et al. 1999). A sample taken at a particular location half an hour ago came from water that is now miles away, and a sample taken from the same location now is from water that was elsewhere when the previous sample was taken. It too will be far away half an hour from now, and all the time water is mixing and changing as a result. In other words, trying to relate nutrient concentrations to geographical locations is not very meaningful unless we could sample all locations at the same moment, which is not possible. What we often do in estuaries is relate nutrient and other distributions to salt content, or salinity, which varies from 0 at the river inflow to 32 - 33ppt in the coastal sea. Mixing of fresh and seawater in the estuary provides waters with a range of salinities and related properties in between (Ketchum 1955). Instead of plotting measurements against geographical location or mile point along the estuary, we plot graphs of the measurements from a sample against the salinity of the same sample.

The reason for this way of looking at things is that properties that enter with freshwater will distribute with it, with higher concentrations in fresher water in the Bay, and those that enter from the sea will have higher concentrations in saltier water. In fact, if only mixing affects the concentration of a property, then concentration should be proportional to salinity forming a straight line between the freshwater concentrations and the saltwater concentration on the graph (Ketchum 1951). We may have only a general idea of where water with a particular salinity is in the Bay at any time, depending on the tide, but we can know what its properties such as nutrient concentration should be, and depending on its distribution with salinity, where the property originated. Often we find that the distribution is not proportional to salinity, which tells us that other processes have affected concentration, either removing or adding to what we would expect (Ketchum 1955). With nutrients, this can tell us a lot about processes such as uptake and regeneration.

METHODS

Water samples for nutrient analysis were collected through a series of hydrographic cruises in Cobscook Bay during 1995. The three-day cruises were centered around the extremes of the spring-neap tidal cycles in spring (May), summer (July) and fall (October and November), i.e. six cruises. Stations consisted of three, five-station transects across the main flow axis of the prominent constrictions that separate Cobscook Bay into sub-basins (Fig. 1) and 21 peripheral stations generally situated in the center of subtidal areas of the principal coves and sub-embayments. The transects were sampled at high and low water in an effort to obtain synoptic sections of physical, chemical and biological conditions across these constrictions. Peripheral stations were occupied at irregular times between high and low tide. Portions of the inner bays were inaccessible because of their shallowness. See Phinney et al. (2004) for detailed information on station locations.

Station activities related to nutrient chemistry and the development of the algorithm for the prediction of nutrient distribution included a Seabird SeaCAT19 CTD profile of temperature and salinity to within 1m of the bottom and collection of water samples using a Niskin bottle one meter from the surface and one meter from the bottom.

Water samples were vacuum (10cm Hg) filtered through Whatman GFF glass fiber filters into 20 ml. sample vials and frozen. Samples were thawed immediately prior to analysis at the Bigelow Laboratory. Analysis for nitrate (and nitrite, ammonium, phosphate and silicate) was done on a five channel continuous flow analyzer. The continuous flow analyzer is of our design and runs chemistries adapted from Strickland and Parsons (1972). Although samples do not always preserve well for some analyses, they do for nitrate, which is our principal interest here. Precision was +/- 0.05 μg-at. N l^{-1} (Glibert et al. 1991).

Predictive algorithms relating nitrate concentrations to the temperatue/salinity distribution were developed using the step-wise multi-variate polynomial regression techniques developed and described in Garside and Garside (1995).

A complete table of data is available in paper and digital format in Garside et al. (2004).

RESULTS AND DISCUSSION

Spring and Summer

Nitrate is plotted against salinity in the spring (May points marked 1 and 2) and summer (July points marked 3 and 4)(Fig. 2). There are differences between the two distributions, which we expect, but both show a rapid decline of nitrate with decreasing salinity. What this indicates is that the source of nitrate is in waters with the highest salinity, in other words the seawater end. In the spring the concentrations are generally higher than in the summer and greater than zero because plant growth is just starting and nitrate is not used entirely or as quickly as it is in the summer. Salinities are lower than in the summer because freshwater run-off is higher in the spring causing slightly more dilution of the seawater. However, the general pattern in both cases is unequivocal evidence that nitrate enters Cobscook Bay from the seaward end, and the distribution is dominated by this source.

A second feature of this distribution is that in both spring and summer, nitrate would be depleted before salinity reached zero (Fig. 2). This further reinforces the conclusion that the ocean and not the rivers provides the nitrate distribution in Cobscook Bay. It also tells us that nitrate is being utilized within the bay by plants, since if it were not, nitrate concentrations would decline much more gradually with salinity, reaching low values only when salinities approach zero.

There are several other lines of evidence that suggest that the coastal sea is the source of nitrate. A much more complicated analysis of the nitrate and temperature/salinity data allow us to create equations that can be used to predict nitrate from temperature and salinity (Garside and

Garside 1995). Since we have hydrodynamic models that can predict the distribution of salinity and temperature (Brooks et al. 1999), these models can also be used to describe nitrate distribution. Results (Fig. 3) indicate high nitrate water entering the Bay from the seaward end and diminishing in concentration into the bays and towards the rivers.

A second line of evidence can be obtained by comparing the potential nitrogen fluxes from other candidates with the nitrate transported in and out of the Bay on the tide each day (Table 1). These calculations show that all the other likely candidate sources of nitrogen to Cobscook Bay combined only represent about 3% of the nitrogen that is transported by the tide each day as nitrate, and 5% of what is utilized each day in the growing season by plants. Thus, although local impacts of the other sources cannot be discounted, in the bigger picture, only tidal exchange of nitrate is comparable to plant utilization of nitrogen, and the lesser sources are insignificant.

Ammonium is excreted by animals that consume plants, and also by bacterial breakdown of nitrogen-containing organic matter (Glibert et al. 1988). It is used preferentially over nitrate by most marine plants, and is also oxidized quite rapidly by bacteria to nitrate. As a result it is important in phytoplankton nutrition, and its presence tells us about recent herbivory and recycling. In ocean waters, its presence often indicates that plant production and herbivorous grazing are closely balanced, and this is observed as the ecosystem matures in the summer.

The distribution of ammonium in Cobscook Bay in the spring and summer is shown in Fig. 4. Unlike nitrate, ammonium is distributed quite randomly with respect to salinity in both the spring and the summer. Since ammonium is produced by regenerative processes and is relatively short lived, this strongly suggests that the ammonium is being regenerated within Cobscook Bay. What is most surprising is that ammonium concentrations are almost as high in the spring as they are in the summer. High concentrations in the summer and fall would be expected because the herbivore populations have had chance to respond to the available plant food and grow to match the supply. This is not normally the case in the spring. The implication is that at least some of the herbivore population is already in place in the Bay and starts to consume plankton as soon as they grow in the spring. This scenario is consistent with large populations of filter feeding animals that are resident in the Bay, such as clams, mussels and scallops.

This pool of nitrogen can be put in the same perspective as the other fluxes calculated above:

Ammonium tidal exchange (2uM NH_4 in the Bay): 14.9 metric tons N per day

that may be lost if ebbing water is not returned on the next flood. Coincidentally, this helps balance the nitrogen budget for the Bay (not the purpose of this exercise) but more importantly, this flux is a factor of ten or more larger than any originating from current human activities based on inputs from agriculture and sewage (Table 1).

Fall

In the fall we see nitrate utilization continuing into October (points labeled 5) and the distribution is still similar to summer conditions (Fig.5). By November, however, nitrate uptake ceases or is very low and nitrate concentrations are both high and almost uniform over the salinity range sampled (points labeled 6). Despite the high nutrient concentrations there is reduced light to support plankton and algal growth, and phytoplankton populations decline while fixed algae respire more than they photosynthesize, which has implications for nitrogen regeneration.

Ammonium distributions in October are very similar to those in the summer, and for the same reasons: herbivores effectively crop the phytoplankton and regenerate ammonium within the Bay (Fig. 6). The same distribution persists into November but primary production has been inferred to have decreased, based on the nitrate distribution, and so the source of this ammonium must be different, at least in part.

Nutrient data alone are insufficient to elucidate the source of the regeneration that continued high ammonium concentrations imply. However, by the fall there are large reservoirs of organic nitrogen in seaweeds and algal mats. These break down and are grazed, resulting in direct regeneration and a continued supply of particles for filter feeders. In fact, for a variety of reasons other than the nutrient distribution, it seems very likely that grazing on fixed algae is at least as important as filter feeding on phytoplankton in the regeneration of nitrogen as ammonium throughout the growing season and into the fall (see Campbell 2004; Vadas et al. 2004).

The ultimate source of nitrate?

A final comment on where the nitrate comes from, when much of the Gulf of Maine surface water is nutrient depleted throughout the summer, is in order. High nitrate concentrations build up in deeper waters where the products of excretion, death and decay accumulate and the nitrogen they contain is oxidized eventually to nitrate. In the absence of sufficient light this nitrate cannot be utilized until physical processes bring it to the surface where there is light, photosynthesis, plant growth and nutrient uptake. This occurs annually throughout the Gulf when winter cooling causes deep convection, water column overturn and mixing providing a nutrient supply supporting phytoplankton growth when days lengthen in the spring. Mixing is the key. Over much of the Gulf the spring warming results in warm, nutrient-depleted water at the surface separated by a thermocline from colder, nutrient-rich water below (Hopkins and Garfield 1979). Nutrients and high production are short lived in the surface layer.

In the Bay of Fundy two circumstances contribute to mixing of nutrients to the surface throughout the year. In moving from the Gulf into the Bay of Fundy tidal currents are compressed and accelerated by both a narrowing channel and shoaling of the bottom. At some point the increasing turbulence from increasingly faster currents acting on the bottom provides enough energy to destabilize the water column and break the thermocline. Cold nutrient rich water is mixed to the surface and it is this water that acts as a source of nutrients to Cobscook Bay. The large volume tidal exchange of the Bay throughout the year serves as the local transport mechanism (Brooks et al. 1999).

CONCLUSIONS

Cobscook Bay is nutrient rich throughout the year, and is potentially eutrophic. This is a totally natural circumstance brought about by an abundant supply of nutrients, most importantly nitrate, from the adjacent Gulf of Maine. These nutrients promote phytoplankton and fixed algal growth and the biomass produced is heavily grazed resulting in high ammonium concentrations from excretion and regeneration. The high ammonium concentrations and its incomplete re-utilization by the phytoplankton strongly suggest that plant biomass is controlled by grazing. In other words, despite a high natural nutrient loading, natural grazing processes serve to limit the accumulation of plant material and potential eutrophication. At least at the time these measurements were made, man-made contributions were not significant to the nutrient budget of the Bay, although they may have significant local impact. Consequently, the nutrient status of Cobscook Bay has probably changed little since the development of macrotidal ranges approximately 7,000 years BP (Scott and Greenberg 1983).

ACKNOWLEDGEMENTS

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Field sampling was supervised by David Phinney ably assisted by Jeff Brown, Skip Erickson and Doug Phinney of the Bigelow Laboratory. Sampling was conducted from the research vessel *Otto Miller* operated by Tom Dyum of the Eastport Marine Trade School and Chris Bartlett of the Maine Sea Grant Office.

This contribution is the result of the elegant planning, analysis, interpretation and writing of Chris and Jean Garside. The document was converted to scientific manuscript format by Peter Larsen who accepts responsibility for any shortcomings. The process was assisted by David Brooks, David Phinney and other team members. Figures were prepared by Tracey Wysor. Special gratitude is due Sandy Shumway, Pat Glibert and Barbara Vickery for their thorough and constructive review of the manuscript.

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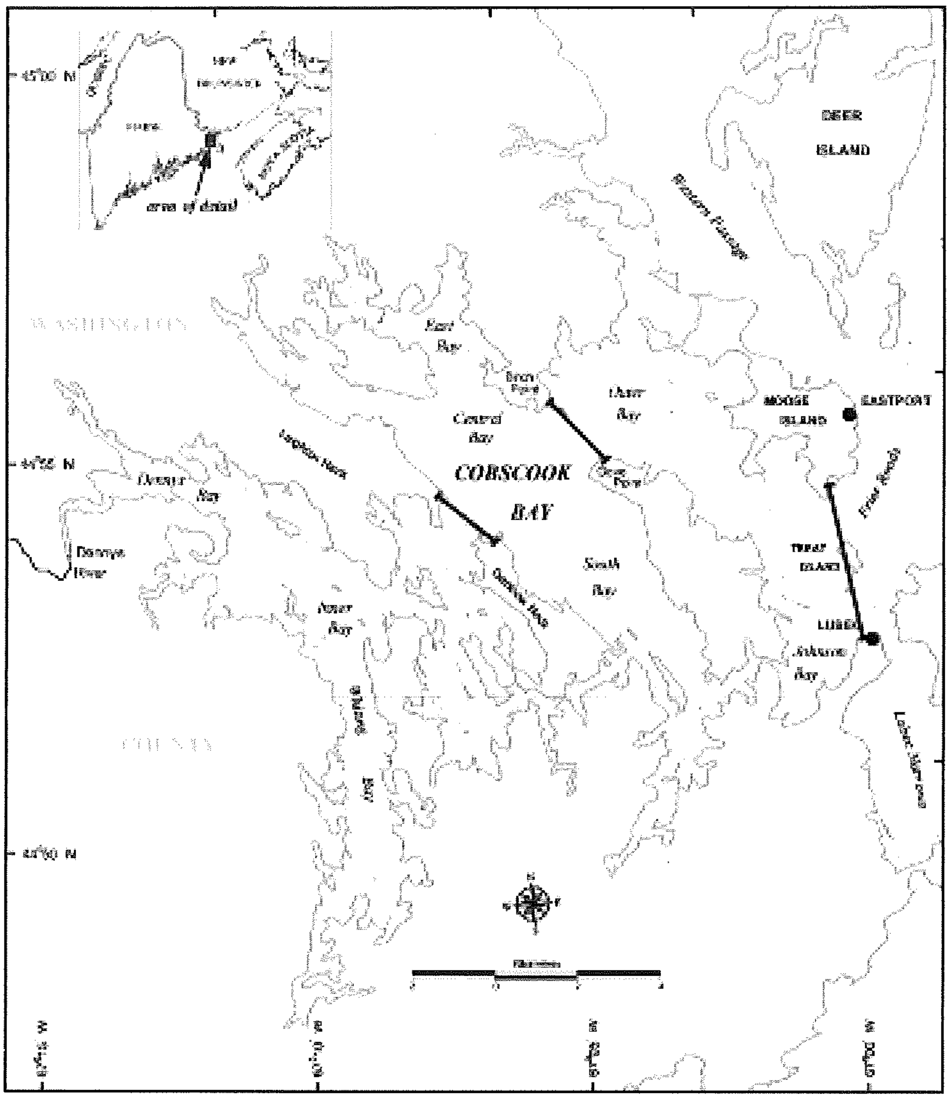
Table 1. Comparison of potential daily, tidal nitrogen fluxes, as nitrate, in and out of Cobscook Bay each day.

Nitrate tidal exchange (5uM NO_3 source in spring)[1]	70.0 metric tons N per day
Nitrogen consumed by plants(400g$Cm^{-2}y^{-1}$ over 6 months)[1]	40.2 " " "
Nitrogen in salmon feed (1994/5 data)[2]	1.2 " " "
Total nitrogen in freshwater run-off[2]	0.9 " " "
Total nitrogen in rain and dust fallout[2]	0.2 " " "
Sewage nitrogen (10,000 people max.)[3]	0.01 " " "

Data from this [1] or other personal studies [3]. [2] Data provided by Dan Campbell, U.S. Environmental Protection Agency.

FIGURES

Figure 1. Map of Cobscook Bay, Maine showing the locations of the principal transects.



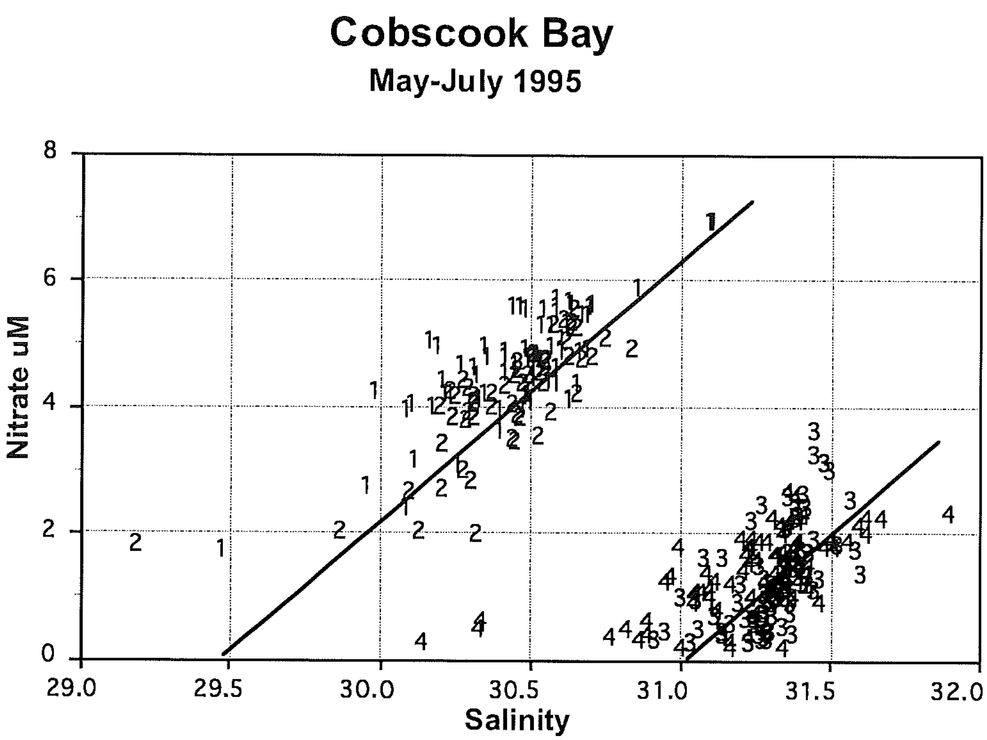


Figure 2. The relationship between nitrate and salinity in the spring (May points labeled 1 and 2) and summer (July points labeled 3 and 4). Points labeled 1 and 4 represent neap tides; 2 and 3 spring tides.

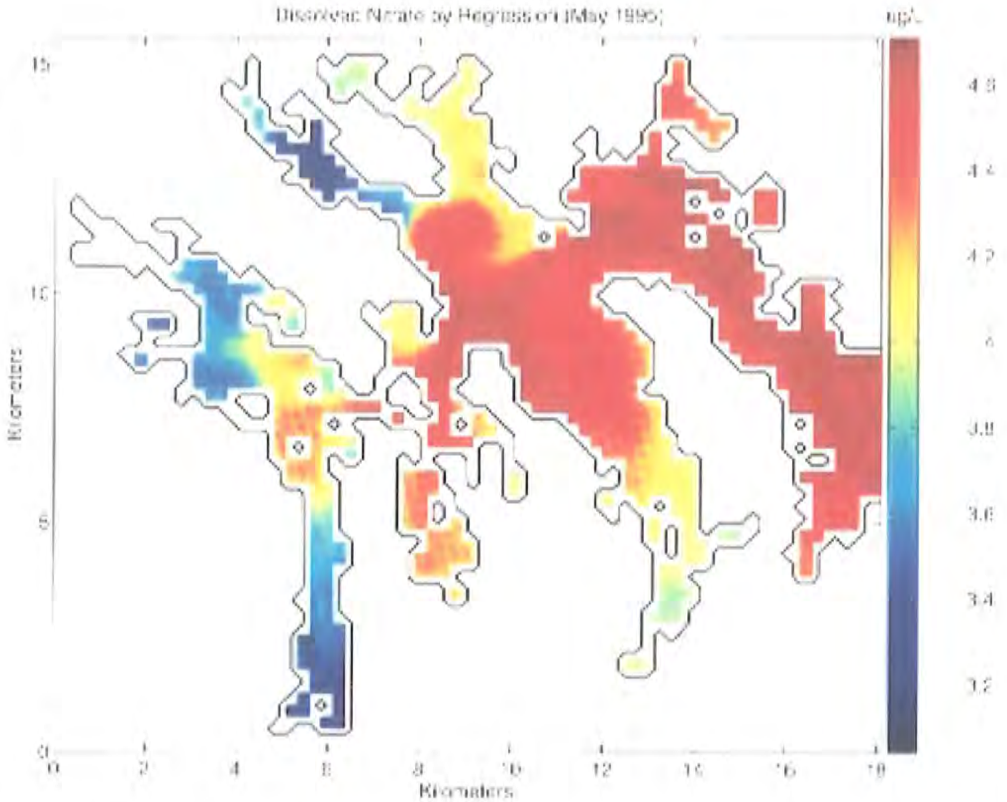


Figure 3. Spring nitrate distribution in Cobscook Bay determined by predictive algorithms and the three-dimensional numerical circulation model (Brooks, *et al.* 1999).

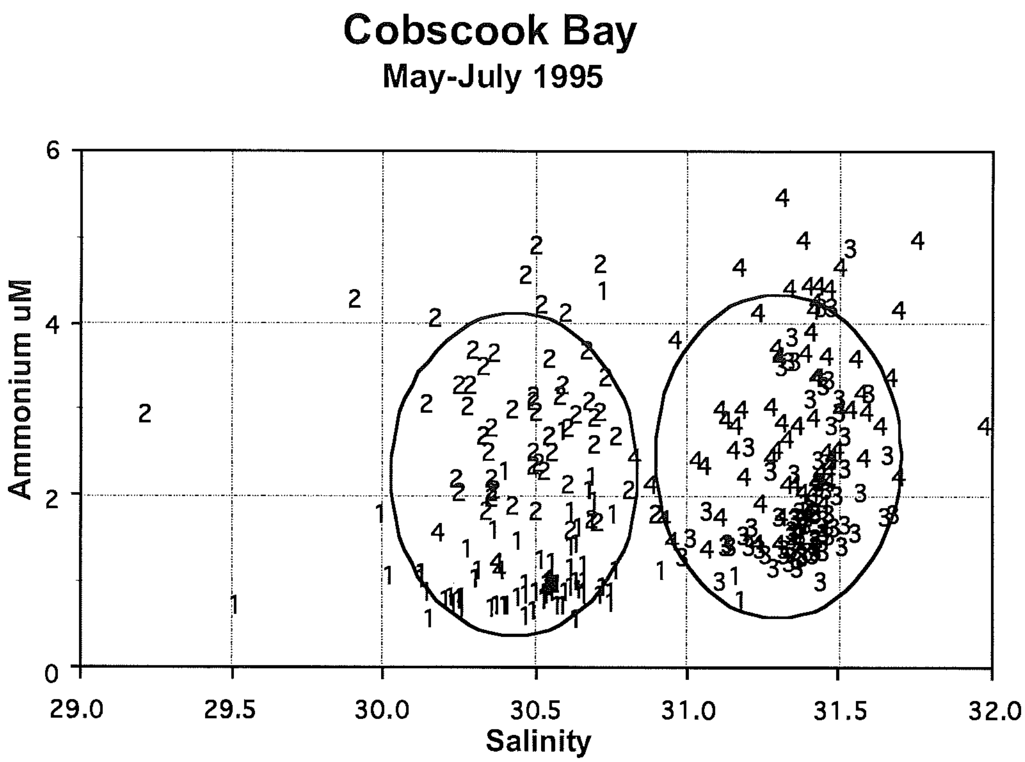


Figure 4. The relationship between ammonium and salinity in the spring (May points labeled 1 and 2) and summer (July points labeled 3 and 4). Points labeled 1 and 4 represent neap tides; 2 and 3 spring tides.

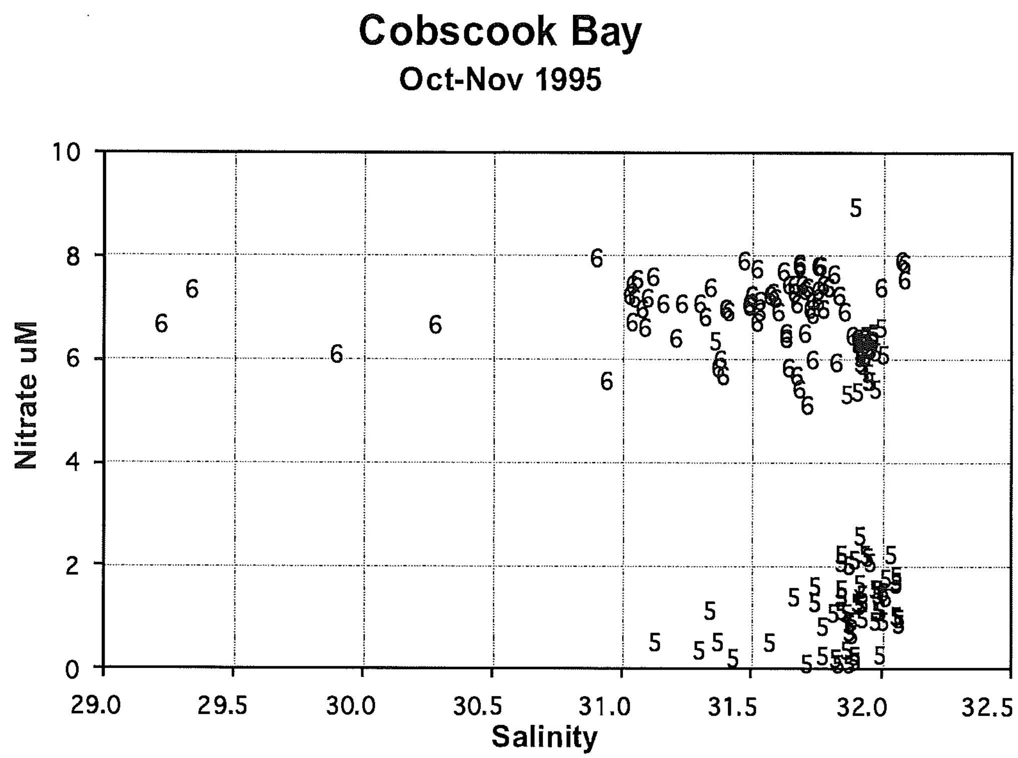


Figure 5. The relationship between nitrate and salinity in the fall (October points labeled 5 and November points labeled 6).

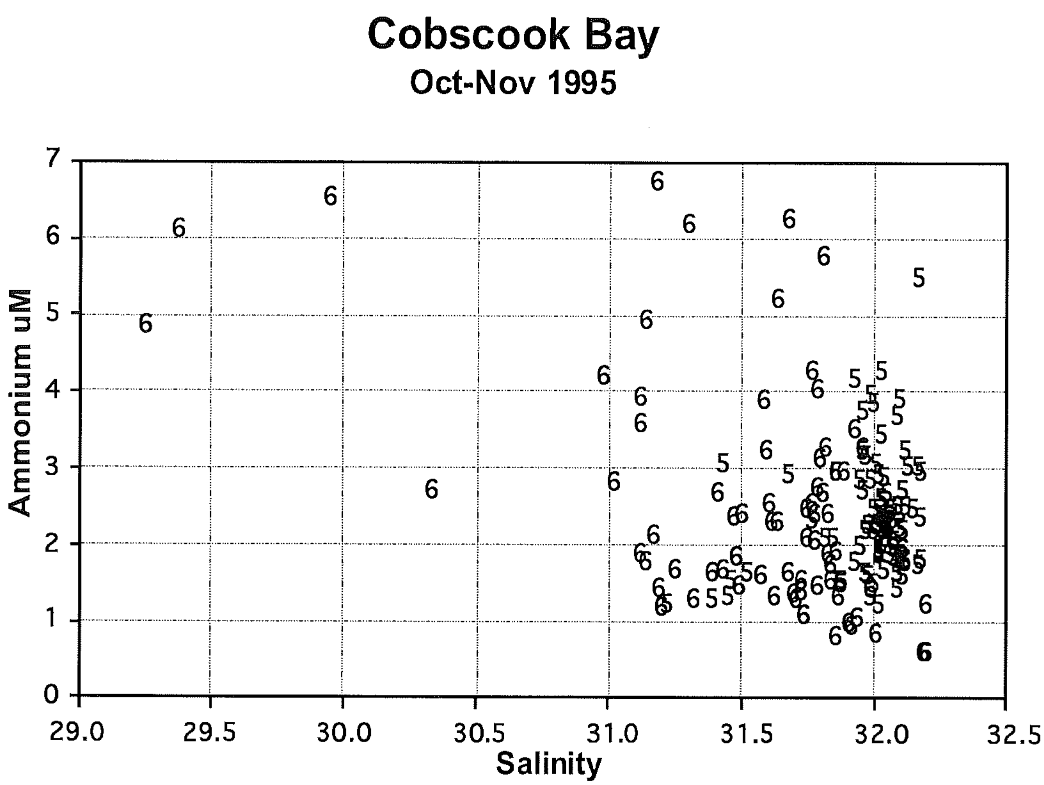


Figure 6. The relationship between ammonium and salinity in the fall (October spring tide points labeled 5 and November neap tide points labeled 6).

DATA APPENDIX

Locator	Date	Local tim	Station#	Latitude	Longitude	Depth	Chl	Fb/Fa	CTD temp	CTD Sal	MicroSal	Flow Temp	Flow Sal	Fl units	Avg Chl	k(par)	m-Secchi	Euphotic	Sonic z	Nut sampl	NO3	NO2	PO4	SIO3	NH4
DR	122	10:28	CB101	44.9033	67.18	1	0.69	1.6	5.836	27.959	22.624	6.8	21.85	55	0.67	0.65	3.5	7.1	7	3300	3.13	0.23	0.42	16.06	1.86
DR	122	10:28	CB101	44.9033	67.18	5	0.64	1.61	5.709	28.581	28.611									3301	3.89	0.11	0.42	9.64	1.06
WB	122	11:35	CB102	44.8233	67.15	1	0.12	1.04	6.51	27.857	27.305	8.2	22.81	30	0.14	0.702	4	6.6	6.5	3302	3.50	0.24	0.33	16.95	1.50
WB	122	11:35	CB102	44.8233	67.15	5	0.16	1.06	5.941	28.901	29.192									3303	3.74	0.04	0.32	8.68	0.98
BI	122	12:25	CB103	44.8767	67.1533	1	0.15	1.26	5.21	30.195	30.461			26.5	0.2	0.702	4	6.6	8.5	3304	5.01	0.04	0.48	7.89	0.87
BI	122	12:25	CB103	44.8767	67.1533	7	0.25	1.33	5.192	30.22	30.492									3305	4.93	0.02	0.46	7.55	0.83
SC	122	13:20	CB104	44.8975	67.1217	1	0.08	1	5.464	30.011		5.8	24.78	26	0.16	0.429	6	10.7	10.5	3306	4.22	0.39	0.50	8.12	1.14
SC	122	13:20	CB104	44.8975	67.1217	8	0.24	1.23	5.392	30.119	30.379									3307	3.94	0.45	0.52	7.59	1.18
LD1	122	13:59 High	CB105	44.895	67.11	1	0.09	1.36	4.869	30.506		5.3	24.82	27			7		13	3308	5.56	0.21	0.51	7.85	1.33
LD1	122	13:59 High	CB105	44.895	67.11	10	0.11	1.33	4.797	30.623	30.774									3309	5.58	0.16	0.48	8.10	1.06
LD4	122	14:10 High	CB106	44.895	67.105	1	0.14	1.1	4.901	30.525		5.3	24.6	37.5			8		16	3310	5.50	0.17	0.48	8.69	0.95
LD4	122	14:10 High	CB106	44.895	67.105	10	0.14	1.11	4.739	30.606	30.701									3311	5.28	0.16	0.47	8.17	1.01
LD3	122	14:18 High	CB107	44.8933	67.1067	1	0.25	1.37	4.733	30.585	30.808	5.1	24.74	28			8		23	3312	5.53	0.14	0.47	8.19	0.95
LD3	122	14:18 High	CB107	44.8933	67.1067	20			4.674	30.594										no sample	-999.00	-999.00	-999.00	-999.00	-999.00
LD2	122	14:29 High	CB108	44.8933	67.11	1	0.69	1.77	4.949	30.477		5.1	24.83	29		0.314	7		20.5	3313	5.56	0.05	0.48	8.18	0.73
LD2	122	14:29 High	CB108	44.8933	67.11	18	0.3	1.36	4.688	30.623	30.825									3314	5.67	0.30	0.49	8.54	0.64
BG1	123	07:48 Low	CB109	44.915	67.07	1	0.05	1	5.219	30.38		5.4	29.97	32.5			6		6	3315	4.93	0.13	0.44	7.58	2.35
BG1	123	07:48 Low	CB109	44.915	67.07	5	0.08	1	5.201	30.39	30.749									3316	4.76	0.08	-999.00	7.94	0.78
BG5	123	08:01 Low	CB110	44.9083	67.0817	1	0.13	1.27	4.999	30.517		5.5	29.66	27.5			7.5		9	3317	4.88	0.08	0.44	7.80	0.85
BG5	123	08:01 Low	CB110	44.9083	67.0817	5	0.13	1.22	4.969	30.544	30.737									3318	4.77	0.08	0.41	7.87	0.95
BG4	123	08:10 Low	CB111	44.91	67.0633	1	0.09	1.25	5.344	30.208		5.5	29.55	27			7		24	3319	3.97	0.09	0.36	7.17	0.89
BG4	123	08:10 Low	CB111	44.91	67.0633	20	0.14	1.23	5.249	30.298	30.603									3320	4.62	0.08	0.45	7.45	1.20
BG3	123	08:18 Low	CB112	44.9117	67.0667	1	0.27	1.4	5.467	30.245		5.6	29.46	31.5			7.5		17.5	3321	4.17	0.15	0.44	7.71	0.75
BG3	123	08:18 Low	CB112	44.9117	67.0667	15	0.14	1.33	5.419	30.241	30.434									3322	4.39	0.16	0.45	7.60	0.89
BG2	123	08:26 Low	CB113	44.9125	67.0683	1	0.43	1.64	5.445	30.238		5.7	29.37	33			7		14.5	3323	4.40	0.06	0.32	7.89	0.85
BG2	123	08:26 Low	CB113	44.9125	67.0683	12	0.51	1.68	5.306	30.342	30.666									3324	4.58	0.09	0.36	7.41	0.76
PR	123	08:55	CB114	44.93	67.1433	1	0.21	1.42	6.528	29.504		8.1	23.79	40	0.36	0.472	4.5	9.8	5.5	3325	1.70	0.12	0.22	11.09	0.78
PR	123	08:55	CB114	44.93	67.1433	4	0.51	1.69	5.914	29.98	30.011									3326	1.94	0.20	0.32	7.29	0.71
WPB	123	09:34	CB115	44.915	67.1133	1	0.3	1.49	5.811	29.987		6.3	28.96	36	0.39	0.538	5	8.6	6.5	3327	2.68	0.28	0.42	7.65	1.85
WPB	123	09:34	CB115	44.915	67.1133	4	0.48	1.77	5.604	30.145	30.274									3328	3.11	0.27	0.32	8.79	0.64
EB	123	10:15	CB116	44.9367	67.1083	1	0.39	1.6	6.031	30.117		6.9	28.14	35	0.55	0.445	5	10.3	5	3329	2.36	0.11	0.35	7.29	1.09
EB	123	10:15	CB116	44.9367	67.1083	4	0.71	1.86	5.758	30.289	30.346									3330	3.02	0.08	0.39	7.53	1.09
GP	123	10:53	CB117	44.915	67.1067	1	0.16	1.46	5.684	30.132		5.9	29.42	28.5	0.19	0.29	6.5	15.9	14	3331	4.00	0.11	0.48	7.99	0.95
GP	123	10:53	CB117	44.915	67.1067	12	0.19	1.2	5.228	30.359	30.447									3332	4.08	0.11	0.48	7.80	0.78
LI	123	11:46	CB118	44.8525	67.0417	1	0.26	1.45	6.001	30.101		7	29.45	30	0.32	0.476	5.5	9.7	6	3333	1.92	0.12	0.35	6.19	1.39
LI	123	11:46	CB118	44.8525	67.0417	4	0.38	1.67	5.757	30.344	30.519									3334	2.58	0.04	0.37	6.49	1.38
MSB	123	12:17	CB119	44.8775	67.085	1	0.14	1.39	5.612	30.261		6.1	29.91	27.5	0.28	0.325	7	14.2	12	3335	4.18	0.09	0.41	7.56	1.43
MSB	123	12:17	CB119	44.8775	67.085	10	0.42	1.65	5.063	30.563	30.771									3336	4.74	0.05	0.49	8.50	1.04
ESB	123	13:07	CB120	44.89	67.0592	1	0.28	1.5	5.388	30.352		5.9	29.86	28.5	0.38	0.367	7	12.5	12.5	3337	4.48	0.13	0.42	7.75	1.86
ESB	123	13:07	CB120	44.89	67.0592	10	0.5	1.45	5.287	30.454	30.663									3338	4.51	0.14	0.47	7.47	0.88
LE1	123	13:54 High	CB121	44.865	66.995	1	0.05	1.2	4.952	30.573		5.4	30.2	31			8		19	3339	5.27	0.23	0.54	7.95	2.79
LE1	123	13:54 High	CB121	44.865	66.995	16	0.12	1.3	4.696	30.674	30.858									3340	5.65	0.10	0.49	7.56	1.75
LE2	123	14:02 High	CB122	44.87	66.9933	1	0.13	1.38	4.929	30.674		5.3	30.17	30			8		20.5	3341	5.80	0.22	0.51	8.19	1.99
LE2	123	14:02 High	CB122	44.87	66.9933	16	0.08	1.42	4.904	30.71	30.889									3342	5.44	0.19	0.52	8.43	1.02
LE3	123	14:13 High	CB123	44.8775	66.9983	1	0.12	1.23	4.903	30.664		5.3	30.29	28			8		24.5	3343	5.30	0.23	0.51	7.97	2.12
LE3	123	14:13 High	CB123	44.8775	66.9983	20	0.09	1.43	4.727	30.741	31.109									3344	5.57	0.17	0.49	8.30	1.85
LE4	123	14:21 High	CB124	44.8833	66.9992	1	0.12	1.13	4.985	30.627		5.3	30.17	28.5			8		25	3345	5.48	0.18	0.51	7.99	1.69
LE4	123	14:21 High	CB124	44.8833	66.9992	20	0.18	1.52	4.777	30.729	30.928									3346	5.45	0.18	0.51	8.37	0.96
LE5	123	14:28 High	CB125	44.8867	66.9975	1	0.09	1.18	4.53	30.897		5	30.33	25			7		35	3347	5.87	0.18	0.46	8.06	1.21
LE5	123	14:28 High	CB125	44.8867	66.9975	30	0.13	1.17	4.14	31.158	31.389									3348	6.89	0.12	0.60	8.76	0.87
LE6	123	14:50 High	CB126	44.89	66.9967	1	0.27	1.49	4.729	30.744		5	30.22	28			7		25	3349	5.62	0.16	0.54	8.18	1.20
LE6	123	14:50 High	CB126	44.89	66.9967	20	0.11	1.41	4.158	31.146	31.362									3350	6.91	0.18	0.60	8.64	1.14
LE1	124	08:06 Low	CB127	44.865	66.9925	1	0.12	1.37	5.169	30.674							7		15	3351	4.08	0.13	0.43	8.36	2.29
LE1	124	08:06 Low	CB127	44.865	66.9925	12	0.09	1.19	4.923	30.707	30.887									3352	4.83	0.15	0.48	7.51	4.40
LE2	124	08:12 Low	CB128	44.87	66.9925	1	0.1	1.44	5.02	30.605							7		15	3353	4.94	0.54	0.51	7.70	1.23
LE2	124	08:12 Low	CB128	44.87	66.9925	11	0.08	1.13	4.973	30.641	30.927									3354	4.89	0.26	0.50	7.79	1.25
LE3	124	08:24 Low	CB129	44.88	66.9967	1	0.22	1.47	5.095	30.549							8		18	3355	4.70	0.32	0.53	7.63	1.04
LE3	124	08:24 Low	CB129	44.88	66.9967	15	0.22	1.36	5.086	30.559	30.801									3356	4.79	0.17	0.51	7.49	0.81
LE4	124	08:34 Low	CB130	44.8833	66.9992	1	0.22	1.4	5.165	30.526							8		18	3357	4.74	0.29	0.50	7.55	0.92
LE4	124	08:34 Low	CB130	44.8833	66.9992	12	0.11	1.41	5.144	30.532	30.942									3358	4.75	0.01	0.48	7.55	1.02
LE5	124	08:43 Low	CB131	44.8867	66.9983	1	0.34	1.6	5.226	30.454		5.4	29.91	33			8		31.5	3359	4.83	0.05	0.57	8.42	1.05
LE5	124	08:43 Low	CB131	44.8867	66.9983	30	0.35	1.61	5.509	30.575	30.924					0.301				3360	4.71	0.01	0.49	7.40	0.80
LE6	124	09:00 Low	CB132	44.8917	66.9967	1	0.87	1.9	5.276	30.453		5.5	30.44	31			6		22	3361	4.76	0.11	0.49	7.43	0.91
LE6	124	09:00 Low	CB132	44.8917	66.9967	15	0.31	1.59	5.226	30.49	30.706									3362	4.65	0.15	0.51	7.28	0.96
JB	124	09:18	CB133	44.8592	67.0033	1	0.14	1.6	5.304	30.734		6.5	30.54	29	0.09	0.35	6.5	13.2	6	3363	3.70	0.08	0.49	7.23	1.11
JB	124	09:18	CB133	44.8592	67.0033	5	0.03	1	5.025	30.73	30.843									3364	4.87	-0.06	0.47	8.69	0.83
BC	124	10:01	CB134	44.9017	67.0067	1	0.32	1.58	5.209	30.602		5.5	30.44	29	0.58	0.338	5.5	13.6	5.5	3365	4.40	0.11	0.36	7.24	1.88
BC	124	10:01	CB134	44.9017	67.0067	4	0.83	1.71	5.199	30.697	30.753									3366	4.33	0.06	0.38	7.55	0.91
CI	124	10:33	CB135	67.0472	67.0283	1	0.47	1.81	5.298	30.546		5.8	30.47	28	0.81	0.344	8	13.4	8	3367	4.44	0.08	0.50	7.79	1.09
CI	124	10:33	CB135	44.8892	67.0283	5	0.75	1.89	5.235	30.801	30.743									3368	4.54	0.12	0.43	7.55	1.48
DC	124	10:56	CB136	44.9083	67.0192	1	0.19	1.43	5.678	30.385		5.8	30.29	28	1.45	0.367	6	12.5	6	3369	4.16	0.12	0.47	7.17	0.80
DC	124	10:56	CB136	44.9083	67.0192	5	2.71	1.98	5.831	30.516	30.801									3370	3.91	0.01	0.45	6.75	0.89
MI	124	11:18	CB137	44.9133	67.03	1	0.14	1.41	5.255	30.532		5.5	30.33	29	0.14	0.304	6.5	15.1	6.5	3371	4.16	0.06	0.40	7.13	1.06
MI	124	11:18	CB137	44.9133	67.03	5	0.14	1.45	5.254	30.542	30.731									3372	4.04	0.09	0.41	6.67	1.29
BH	124	11:57	CB138	44.9342	67.05	1	0.07	1.23	5.518	30.429		5.8	30.29	30	0.06	0.329	7.5	14	8.5	3373	3.93	0.02	0.34	6.68	0.89
BH	124	11:57	CB138	44.9342	67.05	6	0.05	1.83	5.519	30.433	30.844									3374	3.58	0.08	0.37	6.51	1.55
BG1	124	12:58 High	CB139	44.9133	67.07	1	0.11	1.25	4.96	30.641							8		12.5	3375	5.07	0.09	0.53	7.37	1.07
BG1	124	12:58 High	CB139	44.9133	67.07	10	0.24	1.33	4.966	30.644	30.636									3376	4.90	0.07	0.45	7.50	0.92
BG3	124	13:08 High	CB140	44.91	67.0667	1	0.61	1.67	4.952	30.625							8		28	3377	4.59	0.09	0.50	6.86	0.97
BG3	124	13:08 High	CB140	44.91	67.0667	24	0.65	1.75	4.919	30.641	30.823									3378	4.86	0.10	0.46	7.72	0.94
BG5	124	13:15 High	CB141	44.9075	67.0633	1	0.23	1.21	5.357	30.521							8		15	3379	4.15	0.11	0.42	6.79	1.04
BG5	124	13:15 High	CB141	44.9075	67.0633	10	0.22	1.22	5.176	30.624	30.77									3380	4.35	0.04	0.42	7.00	1.50
DR	136	10:10	CB201	44.9077	67.191	1	1.67	1.77	7.468	28.204		8.7	23.99	56	1.56	0.72	3	6.4	3.5	3100	2.15	0.35	0.29	6.37	6.38
DR	136	10:10	CB201	44.9077	67.191	2.5	1.45	1.66	7.21	28.683	27.656									3101	1.98	0.04	0.26	5.73	2.63
WB	136	11:09	CB202	44.8233	67.1493	1	0.94	1.75	7.553	28.429		8.2	26.9	64	0.9	0.541	3.5	8.5	6.2	3102	2.04	0.10	0.14	4.95	3.80
WB	136	11:09	CB202	44.8233	67.1493	5	0.86	1.56	7.118	29.204	29.089									3103	1.78	0.07	0.23	3.97	2.99
BI	136	11:55	CB203	44.8752	67.1553	1	1.49	1.61	5.657	30.498		6.1	29.58	66.5	1.51	0.359	5	12.8	6.7	3104	3.13	0.13	0.26	3.80	5.96

BI	136 11:55		CB203	44.8752	67.1553	6	1.53	1.75	5.658	30.504	30.703									3105	3.79	-0.08	0.38	4.59	4.26
GI	136 12:41		CB204	44.8672	67.1137	1	1.46	1.63	5.706	30.479		6	30.11	78.5	1.43	0.354	5	13	12	3106	3.48	0.05	0.31	4.80	2.57
GI	136 12:41		CB204	44.8672	67.1137	10	1.4	1.73	5.622	30.527	30.704									3107	2.90	0.05	0.29	3.71	3.14
LD1	136 13:11	High	CB205	44.894	67.1113	1	0.66	1.44	5.725	30.465		6	30.44	82			5.5		12	3108	3.43	0.02	0.32	4.33	3.20
LD1	136 13:11	High	CB205	44.894	67.1113	9	0.71	1.56	5.716	30.491	30.688									3109	3.85	0.05	0.40	5.04	1.87
LD4	136 13:16	High	CB206	44.8942	67.1102	1	0.9	1.81	5.555	30.568		5.8	30.51	82			6		20	3110	3.49	0.05	0.32	4.87	3.20
LD4	136 13:16	High	CB206	44.8942	67.1102	17	0.75	1.6	5.416	30.652	30.834									3111	5.37	-0.02	0.52	6.53	3.72
LD3	136 13:22	High	CB207	44.8938	67.1073	1	1.09	1.59	5.493	30.605		6	30.44	85			5.5		25	3112	3.86	0.03	0.40	5.43	1.65
LD3	136 13:22	High	CB207	44.8938	67.1073	20	0.81	1.58	5.402	30.67	30.91									3113	4.77	-0.04	0.42	5.85	1.78
LD2	136 13:30	High	CB208	44.8942	67.1055	1	1.12	1.69	5.377	30.686		5.9	30.42	85			5.5		13	3114	5.54	0.03	0.55	6.54	1.76
LD2	136 13:30	High	CB208	44.8942	67.1055	10	0.99	1.54	5.367	30.693	30.887									3115	5.24	-0.01	0.49	6.57	3.03
SC	136 14:13		CB209	44.8977	67.1212	1	1.13	1.65	6.144	30.275		6.7	30.04		1.21	0.361	6	12.6	9	3116	3.79	0.00	0.43	5.89	3.32
SC	136 14:13		CB209	44.8977	67.1212	6	1.29	1.66	6.05	30.345	30.482									3117	3.76	0.04	0.45	5.66	2.03
EB	137 07:29		CB210	44.9347	67.1062	1	0.3	1.57	6.861	30.156		7.4	29.97	31	0.23		4		5.5	3118	2.00	-0.03	0.24	4.33	4.11
EB	137 07:29		CB210	44.9347	67.1062	5	0.15	1.11	6.824	30.353	30.289									3119	1.92	0.00	0.22	4.01	3.69
BG1	137 07:59	Low	CB211	44.9135	67.0702	1	0.01	1.05	6.214	30.314		6.5	30.32	27			5		6	3120	2.96	0.04	0.30	4.45	-999.00
BG1	137 07:59	Low	CB211	44.9135	67.0702	5	0.09	1.03	6.221	30.316	30.471									3121	3.75	0.03	0.46	5.55	3.53
BG5	137 08:09	Low	CB212	44.9073	67.0632	1	0.13	1.04	5.787	30.535		6.3	30.39	24.5			5		7.5	3122	4.34	0.03	0.42	5.69	3.63
BG5	137 08:09	Low	CB212	44.9073	67.0632	6	0.14	1.05	5.743	30.593	30.828									3123	4.68	-0.02	0.53	6.29	2.16
BG4	137 08:15	Low	CB213	44.9093	67.0842	1	0.23	1.09	6.022	30.261		6.3	30.28	27			5		21.5	3124	4.23	0.06	0.56	6.02	3.06
BG4	137 08:15	Low	CB213	44.9093	67.0842	20	0.1	1.07	5.777	30.497	30.658									3125	4.57	0.05	0.55	6.14	2.42
BG3	137 08:21	Low	CB214	44.911	67.0655	1	0.28	1.13	6.005	30.28		6.4	30.19	27.5			5		13	3126	4.12	0.03	0.52	5.94	3.72
BG3	137 08:21	Low	CB214	44.911	67.0655	11	0.38	1.21	5.957	30.313	30.523									3127	4.38	0.06	0.55	6.23	2.73
BG2	137 08:28	Low	CB215	44.9122	67.0688	1	0.36	1.3	6.125	30.344		6.4	30.3	27.5			5		10.5	3128	4.02	0.19	0.51	5.72	2.25
BG2	137 08:28	Low	CB215	44.9122	67.0688	9	0.36	1.34	6.083	30.411	30.526									3129	3.95	0.07	0.49	5.83	3.05
PR	137 08:53		CB216	44.928	67.143	1	0.44	1.45	6.831	29.894		6.1	26.46	31.5	0.46	0.6	4	7.7	6	3130	1.99	0.11	0.39	7.37	4.32
PR	137 08:53		CB216	44.928	67.143	5	0.47	1.35	6.71	30.128	30.086									3131	2.60	-0.05	0.43	5.08	3.11
GP	137 09:22		CB217	44.9153	67.1058	1	0.29	1.26	6.284	30.236		7	30.1	26	0.33	0.437	4.5	10.5	12.2	3132	3.36	0.06	0.59	5.87	3.33
GP	137 09:22		CB217	44.9153	67.1058	10	0.36	1.23	6.084	30.323	30.456									3133	3.89	0.09	0.48	6.01	1.87
WSB	137 09:47		CB218	44.8937	67.0865	1	0.28	1.08	6.12	30.228		6.4	30.19	27.5	0.31	0.436	4.5	10.6	12.5	3134	3.95	0.20	0.49	5.78	2.24
WSB	137 09:47		CB218	44.8937	67.0865	10	0.34	1.14	6.017	30.33	30.498									3135	4.24	0.12	0.50	5.92	2.56
LI	137 10:23		CB219	44.852	67.0427	1	0.32	1.31	6.656	30.236		7	29.99	29.5	0.52	0.573	4	8	5	3136	2.65	0.04	0.38	5.23	2.09
LI	137 10:23		CB219	44.852	67.0427	4	0.71	1.43	6.536	30.339	30.452									3137	2.78	0.04	0.44	5.15	2.09
MSB	137 10:48		CB220	44.8765	67.0653	1	0.05	1.11	6.04	30.349		6.4	30.19	29.5	0.06	0.458	4.5	10.1	10.5	3138	4.13	0.09	0.52	7.06	2.13
MSB	137 10:48		CB220	44.8765	67.0653	8	0.07	1.07	6.038	30.408	30.54									3139	4.19	0.08	0.48	5.88	1.94
ESB	137 11:12		CB221	44.8927	67.0545	1	0.1	1.16	6.135	30.341		10.8	30.34	26	0.08	0.393	4.5	11.7	10.5	3140	4.03	0.12	0.46	6.16	2.82
ESB	137 11:12		CB221	44.8927	67.0545	8	0.06	1.08	5.912	30.452	30.605									3141	4.31	0.11	0.52	6.14	4.59
JB	137 12:52		CB222	44.8532	67.0103	1	0.2	1.19	5.797	30.79		6.3	30.5	21	0.21		6		6.5	3142	5.04	0.14	0.56	6.74	2.12
JB	137 12:52		CB222	44.8532	67.0103	6	0.22	1.19	5.605	30.88	30.919									3143	4.90	0.09	0.49	6.53	1.84
LE1	138 08:57	Low	CB223	44.865	66.9923	1	0.16	1.13	5.577	30.663							5.5		13.5	3144	5.32	0.18	0.55	7.52	2.64
LE1	138 08:57	Low	CB223	44.865	66.9923	10	0.36	1.41	5.47	30.75	30.887									3145	4.78	0.10	0.51	5.95	2.75
LE2	138 09:10	Low	CB224	44.8715	66.9942	1	0.43	1.46	5.412	30.778							5.5		15.5	3146	5.97	0.09	0.57	7.13	2.97
LE2	138 09:10	Low	CB224	44.8715	66.9942	12	0.39	1.38	5.408	30.766	30.988									3147	6.06	0.07	0.59	7.06	3.53
LE3	138 09:21	Low	CB225			1	0.7	1.33									5.5		18	3148	5.24	0.15	0.52	6.96	3.98
LE3	138 09:21	Low	CB225			15	0.48	1.38			30.89									3149	5.73	0.17	0.59	6.98	3.03
LE4	138 09:30	Low	CB226	44.8832	66.9993	1	0.79	1.34	5.818	30.493							5		18	3150	4.67	0.17	0.50	6.02	4.95
LE4	138 09:30	Low	CB226	44.8832	66.9993	15	0.97	1.44	5.894	30.589	30.815									3151	4.72	0.11	0.52	6.14	2.85
LE5	138 09:06	Low	CB227	44.8868	66.9982	1	0.85	1.7	5.569	30.677		6	30.33	24.5			5.5		29	3152	5.23	0.09	0.64	8.46	2.97
LE5	138 09:06	Low	CB227	44.8868	66.9982	25	0.97	1.6	5.506	30.718	30.844									3153	4.72	0.14	0.53	8.28	3.43
LE6	138 09:43	Low	CB228	44.8912	66.998	1	1.06	1.52	5.703	30.574		6	30.22	25			5.5		17	3154	4.49	0.06	0.54	5.93	3.34
LE6	138 09:43	Low	CB228	44.8912	66.998	15	0.86	1.49	5.684	30.585	30.711									3155	4.36	0.10	0.49	5.87	4.15
BC	138 09:55		CB229	44.9012	67.0078	1	0.91	1.66	5.714	30.578		13.4	30.45	25	0.91	0.398	5.5	11.6	5.7	3156	5.57	0.04	0.69	6.99	3.03
BC	138 09:55		CB229	44.9012	67.0078	4	0.91	1.55	5.64	30.62	30.747									3157	5.27	0.14	0.61	7.47	2.99
CI	138 10:23		CB230	44.8887	67.0275	1	1.16	1.54	5.607	30.665		5.9	30.31	24	1.15	0.486	5	9.5	5.2	3158	5.01	0.36	0.58	8.73	3.15
CI	138 10:23		CB230	44.8887	67.0275	4	1.13	1.58	5.587	30.899	30.967									3159	4.16	0.19	0.35	5.32	4.71
DC	138 10:49		CB231	44.9078	67.0198	1	0.71	1.47	5.872	30.477		6.2	30.15	26	0.75	0.404	5	11.4	7	3160	4.00	0.25	0.48	5.32	3.14
DC	138 10:49		CB231	44.9078	67.0198	5	0.76	1.45	5.827	30.528	30.687									3161	4.47	0.11	0.52	6.12	2.73
MI	138 11:06		CB232	44.914	67.0292	1	0.18	1.13	5.85	30.513		6.2	30.26	24	0.21	0.433	5	10.6	6.5	3162	4.34	0.12	0.49	5.76	2.33
MI	138 11:06		CB232	44.914	67.0292	4	0.24	1.21	5.805	30.544	30.718									3163	4.80	0.23	0.52	6.39	2.57
BH	138 11:46		CB233	44.9343	67.0512	1	1.08	1.57	5.915	30.484		6.2	30.37	25.5	0.89	0.422	4.5	10.9	6	3164	4.48	0.17	0.55	5.91	2.41
BH	138 11:46		CB233	44.9343	67.0512	4	0.69	1.04	5.921	30.492	30.745									3165	4.70	0.25	0.47	6.23	3.03
MI	192 09:45		CB301	44.9137	67.0265	1	0.85	1.9	9.911	31.323		10.2	30.68	47	0.64	0.288	6.5	16	11	3201	2.40	0.17	0.43	4.04	3.90
MI	192 09:45		CB301	44.9137	67.0265	10	0.43	1.48	9.806	31.409	31.529									3200	4.80	0.17	0.42	4.09	5.07
BG1	192 10:35	High	CB302	44.9122	67.0352	1	0.91	1.76	9.927	31.364							7		16	no sample	-999.00	-999.00	-999.00	-999.00	-999.00
BG1	192 10:35	High	CB302	44.9122	67.0352	15	0.96	1.79	9.669	31.433	31.549									3202	2.44	0.23	0.44	4.14	1.78
BG2	192 10:44	High	CB303	44.9102	67.0677	1	1.21	1.74	9.596	31.411							7		18	3205	2.51	0.17	0.41	4.33	2.21
BG2	192 10:44	High	CB303	44.9102	67.0677	17	1.12	1.79	9.482	31.464	31.635									3204	2.57	0.23	0.45	4.19	1.69
BG3	192 10:50	High	CB304	44.9093	67.0637	1	1.22	1.85	9.481	31.447							7		28	3207	2.23	0.09	0.40	4.04	1.59
BG3	192 10:50	High	CB304	44.9093	67.0637	27	1.12	1.85	9.204	31.5	31.716									3206	3.20	0.18	0.44	4.27	1.71
BG4	192 11:00	High	CB305	44.9072	67.063	1	0.83	1.68	10.167	1.192							6.5		33	3209	1.58	0.11	0.37	3.81	1.68
BG4	192 11:00	High	CB305	44.9072	67.063	32	0.73	1.81	8.659	31.503	31.549									3208	3.58	0.16	0.46	4.42	2.38
BG5	192 11:07	High	CB306	44.9072	67.063	1	0.78	1.79	10.695	31.24							6		18	3211	0.86	0.08	0.34	3.57	1.39
BG5	192 11:07	High	CB306	44.9072	67.063	17	1.14	1.82	9.798	31.433	31.443									3210	2.19	0.01	0.43	4.04	1.64
EB	192 11:37		CB307	44.9337	67.1062	1	1.25	2.33	11.73	31.418		13.3	29.86	34	1.69	0.356	5.5	12.9	12	3213	0.33	0.00	0.28	3.36	1.40
EB	192 11:37		CB307	44.9337	67.1062	10	2.53	2.17	11.246	31.3	31.422									3212	0.53	0.05	0.31	3.47	1.45
GP	192 12:00		CB308	44.9197	67.1097	1	3.49	2.14	11.006	31.113		12.4	29.18	45	2.33	0.352	5.5	13.1	11.5	3215	0.44	0.16	0.23	3.27	1.50
GP	192 12:00		CB308	44.9197	67.1097	10	1.16	2.17	10.409	31.362	31.39									3214	1.14	0.13	0.27	3.75	1.37
ESB	192 12:36		CB309	44.8928	67.0563	1	1.7	2.11	11.523	31.189		12	30.84	50	1.37	0.376	6.5	12.2	12	3217	0.38	0.07	0.29	3.81	1.46
ESB	192 12:36		CB309	44.8928	67.0563	11	1.03	2.3	10.509	31.462	31.484									3216	1.15	0.09	0.33	3.77	1.70
LI	192 13:51		CB310	44.851	67.0425	1	1.52	1.79	13.136	31.279		13.5	27.07	62.5	1.59	0.652	3	7.1	5	3219	0.22	0.06	0.23	2.67	1.81
LI	192 13:51		CB310	44.851	67.0425	4	1.66	2	13.172	31.3	31.518									3218	0.58	0.13	0.28	3.09	1.38
MSB	192 14:16		CB311	44.875	67.0607	1	1.25	2	12.253	31.324		12.9	25.93	72	1.43	0.505	5	9.1	7.5	3221	0.26	0.09	0.27	3.10	1.59
MSB	192 14:16		CB311	44.875	67.0607	6	1.61	2.25	11.12	31.394	31.47									3220	0.45	0.17	0.27	2.97	1.37
BH	192 14:56		CB312	44.9335	67.0512	1	1.41	1.91	12.119	31.318		12.5	29.58	81	1.54		4		6.7	3223	0.35	0.08	0.26	3.41	1.29
BH	192 14:56		CB312	44.9335	67.0512	5	1.68	2	12.16	31.354	31.538									3222	0.63	0.06	0.31	3.38	1.89
LE1	192 15:59	Low	CB313	44.8648	66.9932	1	0.9	2.67	11.172	31.103							6		14.5	3225	0.90	0.04	0.33	3.67	1.49
LE1	192 1559	Low	CB313	44.8648	68.9932	12	1.25	2.24	9.6	31.477	31.489									3224	2.35	0.15	0.37	3.96	2.07
LE2	192 16:06	Low	CB314	44.8717	66.9937	1	1.08	2.18	10.143	31.407							6		15	3227	1.43	0.04	0.38	3.90	1.89

LE2	192 16:06	Low	CB314	44.8717	66.9937	14	1.57	2.12	10.095	31.411	31.597									3226	1.65	0.05	0.36	4.20	2.16
LE3	192 16:16	Low	CB315	44.8795	66.997	1	2.08	1.85	10.028	31.401							6		13	3229	2.01	0.02	0.34	4.23	1.86
LE3	192 16:16	Low	CB315	44.8795	66.997	10	1.25	2.33	10.033	31.494	31.566									3228	1.84	0.02	0.35	4.21	1.47
LE4	192 16:24	Low	CB316	44.8825	66.9985	1	1.8	1.94	10.42	31.374							8		14	3231	1.29	0.09	0.32	3.78	1.90
LE4	192 16:24	Low	CB316	44.8825	66.9985	12	1.34	1.85	10.4	31.401	31.607									3230	1.39	-0.02	0.35	3.70	1.58
LE5	192 16:34	Low	CB317	44.8875	66.998	1	1.34	1.85	10.934	31.328		11.2	29.36	64			6		31	3233	0.97	0.04	0.31	3.56	1.67
LE5	192 16:34	Low	CB317	44.8875	66.998	29	1.45	1.69	10.803	31.333	31.529						6		31	3232	1.21	0.04	0.36	3.64	2.32
LE6	192 16:41	Low	CB318	44.8908	66.998	1	1.25	1.82	10.715	31.352		11.2	30.14	82			6		20	3235	0.89	0.06	0.27	3.58	1.59
LE6	192 16:41	Low	CB318	44.8908	66.998	18	1.12	1.63	10.557	31.366	31.514									3234	1.08	0.02	0.33	3.69	1.71
DR	193 09:52		CB319	44.9165	67.1882	1	1.84	2.1	12.133	30.887		13	29.65	54.5	2.22	0.68	5.5	7	6	3237	0.38	0.05	0.28	3.12	1.57
DR	193 09:52		CB319	44.9165	67.1882	4	2.6	2.04	12.092	31.05	31.213									3236	0.95	0.00	0.24	3.09	1.88
WB	193 10:37		CB320	44.822	67.15	1	2.33	2	13.171	30.965		14.2	29.19	53	2.46	0.488	3.5	9.4	6	3239	0.26	0.12	0.25	2.95	1.36
WB	193 10:37		CB320	44.822	67.15	4	2.58	2.17	12.578	31.221	31.366									3238	0.50	-0.02	0.25	2.78	1.45
BI	193 11:11		CB321	44.8762	67.156	1	3.05	1.84	10.16	31.127		10.6	30.34	50	2.19	0.38	4.5	12.1	7.5	3241	1.55	0.28	0.38	3.75	1.47
BI	193 11:11		CB321	44.8762	67.156	8	1.32	2.19	10.152	31.439	31.534									3240	1.63	0.14	0.36	3.83	2.11
SC	193 11:52		CB322	44.8963	67.1213	1	2.37	2.08	11.243	31.167		11.8	30.52	48	2.64	0.304	5.5	15.1	9	3243	0.65	0.15	0.29	3.33	1.61
SC	193 11:52		CB322	44.8963	67.1213	7	2.91	2.1	10.906	31.449	31.489									3242	1.26	0.21	0.31	3.60	1.85
LD1	193 12:14	High	CB323	44.8942	67.1113	1	2.35	2.02	10.751	31.328		11.3	27.55	47.5			5		9	3245	1.03	0.01	0.34	3.79	1.44
LD1	193 12:14	High	CB323	44.8942	67.1113	7	3.18	2.09	10.567	31.4	31.514									3244	1.04	0.02	0.34	3.61	1.54
LD2	193 12:18	High	CB324	44.8937	67.11	1	1.48	2.36	10.337	31.288		11.2	30.82	46					19	3247	2.15	0.10	0.42	3.81	3.54
LD2	193 12:18	High	CB324	44.8937	67.11	17	1.81	2.25	9.732	31.636	31.588									3246	1.69	0.12	0.33	4.05	2.54
LD3	192 12:24	High	CB325	44.895	67.1082	1	1.21	2.35	10.088	31.403		10.6	30.74	47.5					24	3249	0.95	0.03	0.19	2.83	1.47
LD3	192 12:24	High	CB325	44.895	67.1082	20	1.34	2.31	10.046	31.407	31.575									3248	1.46	0.12	0.24	3.42	1.41
LD4	193 12:50	High	CB326	44.894	67.1058	1	1.88	2.1	10.251	31.252		10.6	30.54	50			7		11	3251	1.15	0.18	0.21	3.13	2.35
LD4	193 12:50	High	CB326	44.894	67.1058	10	0.78	2.19	10.228	31.38	31.538									3250	0.92	0.10	0.14	2.12	1.40
GI	193 12:56		CB327	44.8665	67.1138	1	3.29	2.1	11.175	31.269		11.6	30.78	45	2.88	0.379	5.5	12.2	12	3253	0.59	0.04	-999.00	2.84	1.22
GI	193 12:56		CB327	44.8665	67.1138	11	2.66	2.09	10.628	31.405	31.516									3252	1.13	0.06	0.29	3.13	1.42
PR	193 13:33		CB328	44.9293	67.1462	1	1.84	2.16	13.608	31.087		14.1	30.63	38	1.86	0.439	3.5	10.5	8.5	3255	0.20	-0.03	0.10	2.85	1.06
PR	193 13:33		CB328	44.9293	67.1462	8	1.88	2	11.896	31.345	31.491									3254	0.24	0.06	0.13	2.45	1.32
WPB	193 14:00		CB329	44.9893	67.1132	1	2.64	2.23	12.219	31.188		13.4	30.45	40	2.76	0.362	5	12.7	10	3257	0.35	0.03	0.13	2.49	2.62
WPB	193 14:00		CB329	44.9893	67.1132	10	2.87	2.13	11.322	31.34	31.46									3256	0.39	0.01	0.12	2.87	1.22
BG1	194 06:20	Low	CB330	44.9147	67.0725	1	2.91	2.17	11.133	31.35		11.4	29.98	37.5			4.5		5	3259	0.39	0.01	0.23	2.97	1.81
BG1	194 06:20	Low	CB330	44.9147	67.0725	4	3.24	2.09	11.124	31.373	31.526									3258	0.94	0.04	0.20	3.19	1.96
BG2	194 06:30	Low	CB331	44.9132	67.0713	1	3.27	1.78	11.088	31.329		11.6	29.72	31			5		12	3261	0.60	0.03	0.21	2.95	1.55
BG2	194 06:30	Low	CB331	44.9132	67.0713	4.5	3.54	2.08	11.085	31.332	31.5									3260	0.31	0.08	0.15	1.88	1.77
BG3	194 06:42	Low	CB332	44.9097	67.0645	1	4.25	2.21	10.884	31.337		11.1	29.64	27			5		27.5	3263	0.88	0.01	0.24	3.04	1.82
BG3	194 06:42	Low	CB332	44.9097	67.0645	25.5	1.21	2.25	10.911	31.336	31.494									3262	0.67	0.05	0.19	2.73	3.62
BG4	194 06:50	Low	CB333	44.908	67.0645	1	2.19	2.18	10.611	31.38		10.9	29.6	28.5			5		17	3265	0.86	0.11	0.33	3.17	1.79
BG4	194 06:50	Low	CB333	44.908	67.0645	16	3.81	2.66	10.534	31.386	31.533									3264	1.02	0.05	0.29	3.28	3.19
BG5	194 06:57	Low	CB334	44.9062	67.065	1	3.54	2.03	10.791	31.355		11	29.52	28.5			5.5		10	3267	0.93	0.50	0.31	3.48	1.36
BG5	194 06:57	Low	CB334	44.9062	67.065	8	3.36	2.17	10.726	31.423	31.521									3266	0.69	0.21	0.22	2.64	1.07
CI	194 07:46		CB335	44.8897	67.0282	1	3.74	2.04	10.014	31.427		10.2	30.68	24.5	2.77		6		7.5	3269	2047.00	2047.00	0.55	3.14	2047.00
CI	194 07:46		CB335	44.8897	67.0282	6.5	1.79	2.22	9.993	31.452	31.589									3268	1.68	0.17	0.27	3.37	4.21
BC	194 08:09		CB336	44.902	67.0062	1	2.73	2.1	10.489	31.423		10.9	31.27	26	2.8		5		4.5	3271	0.84	0.49	0.37	3.77	2047.00
BC	194 08:09		CB336	44.902	67.0062	3.5	2.87	2.21	10.249	31.513	31.562									3270	1.21	0.37	0.29	3.47	4.92
FH	194 08:50		CB336A	44.8727	66.9815	1			10.165	31.453		10.5	29.73	22.5						3642	1.45	0.04	0.46	4.59	2.86
FH	194 08:50		CB336A	44.8727	66.9815	9			10.124	31.48										3643	1.13	0.29	0.43	4.43	3.18
JB	194 09:07		CB337	44.8583	67.0048	1	1.61	2	10.28	31.392		10.6	30.86	32.5	2.58		5		8	3273	0.58	0.09	0.39	3.90	3.18
JB	194 09:07		CB337	44.8583	67.0048	8	3.54	2.08	10.168	31.498	31.624									3272	1.08	0.28	0.23	3.36	2.74
LE1	194 09:37	High	CB338	44.8653	66.992	1	2.17	2.16	10.11	31.414		10.4	30.71	28			17.5		6	3275	1.23	0.10	0.25	3.30	2.47
LE1	194 09:37	High	CB338	44.8653	66.992	17	2.33	2	9.894	31.577	31.604									3274	1.79	0.08	0.30	3.76	3.25
LE2	194 09:47	High	CB339	44.8732	66.9942	1	1.93	2.1	10.095	31.316		10.4	30.61	25			6		10	3277	1.44	0.10	0.34	3.86	3.62
LE2	194 09:47	High	CB339	44.8732	66.9942	7	2.78	2	10.035	31.68	31.589									3276	1.32	0.14	0.23	3.08	1.86
LE3	194 10:00	High	CB340	44.8788	66.9963	1	1.37	2.54	9.809	31.443		10.1	30.56	23.5			5.5		15	3279	1.47	0.11	0.22	2.85	3.40
LE3	194 10:00	High	CB340	44.8788	66.9963	13	1.93	2.1	9.77	31.461	31.614									3278	1.85	0.12	0.30	3.50	3.03
LE4	194 10:17	High	CB341	44.8827	66.999	1	1.48	1.83	9.95	31.424		10.2	30.48	25			5		17.5	3281	1.40	0.02	0.24	2.76	4.22
LE4	194 10:17	High	CB341	44.8827	66.999	15.5	0.94	2	9.952	31.428	31.806									3280	1.50	0.16	0.19	2.87	3.33
LE5	194 10:27	High	CB342	44.887	66.9987	1	1.79	2.05	8.965	31.531		9.5	30.46	18			7		30.5	3283	3.10	0.10	0.29	3.51	1.62
LE5	194 10:27	High	CB342	44.887	66.9987	30	1.25	2.15	9.036	31.553	31.675									3282	2.95	0.09	0.31	3.30	2.09
LE6	194 10:44	High	CB343	44.8915	66.9975	1	2.06	1.96	9.978	31.36		9.8	30.31	22.5			6.5		27	3285	0.00	0.09	0.32	3.61	1.90
LE6	194 10:44	High	CB343	44.8915	66.9975	27	1.99	2.23	9.435	31.627	31.633									3284	2.50	0.09	0.29	3.72	1.80
SC	202 07:11		CB401	44.8982	67.1213	1	2.6	1.93	11.193	31.094		11.5	31.16	42.5	2.57		5.3		8.5	3610	0.84	0.21	0.37	3.87	3.06
SC	202 07:11		CB401	44.8982	67.1213	8.5	2.53	2.05	11.079	31.149	31.317									3600	1.04	0.22	0.40	3.78	4.68
LD1	202 07:23	High	CB402	44.8937	67.1115	1	2.46	2.2	10.463	31.317		10.7	31.25	41.5					10	3603	1.81	0.18	0.35	4.07	4.44
LD1	202 07:23	High	CB402	44.8937	67.1115	8	0.81	2.77	10.464	31.39	31.48									3602	1.93	0.24	0.50	4.37	4.20
LD2	202 07:33	High	CB403	44.8943	67.1098	1	1.66	2.18	10.336	31.344		10.5	31.22	40			9		23	3605	1.80	0.35	0.48	6.73	2.87
LD2	202 07:33	High	CB403	44.8943	67.1098	21	2.1	2.09	10.261	31.357	31.455									3604	2.19	0.13	0.48	4.72	4.99
LD3	202 07:40	High	CB404	44.8945	67.1078	1	1.79	2.16	10.557	31.252		10.8	31.06	45.5			7.5		25	3607	1.84	0.67	0.46	4.23	2.49
LD3	202 07:40	High	CB404	44.8945	67.1078	23	2.06	2	10.285	31.411	31.415									3606	2.05	0.29	0.41	3.97	3.41
LD4	202 07:49	High	CB405	44.8945	67.106	1	0.81	2.57	10.838	31.278		10.9	30.88	46			7.5		11.5	3609	1.75	0.28	0.46	4.35	3.66
LD4	202 07:49	High	CB405	44.8945	67.106	9.5	2.22	1.98	10.591	31.284	31.415									3608	1.72	0.32	0.41	4.23	3.64
GI	202 08:08		CB406	44.8668	67.1143	1	1.48	2.2	11.255	31.134		11.8	31.1		1.18		6.5		10	3611	1.32	0.29	0.43	3.77	2.58
GI	202 08:08		CB406	44.8668	67.1143	8	0.87	2.44	10.773	31.375	31.422									3601	1.11	0.19	0.39	4.14	4.46
DR	202 08:44		CB407	44.9073	67.1888	1	2.87	2	12.201	30.371		13.7	29.02		3.03		4		7	3613	0.57	0.12	0.41	4.77	1.21
DR	202 08:44		CB407	44.9073	67.1888	5	3.18	2.03	11.544	30.933	30.879									3612	0.57	0.10	0.33	3.80	1.54
WB	202 09:29		CB408	44.8213	67.151	1	3.05	2.08	12.739	30.168		13.5	29.82		3.07		3.5		6.7	3615	0.23	0.08	0.18	5.12	1.64
WB	202 09:29		CB408	44.8213	67.151	4.5	3.09	2.18	12.628	30.358	30.388									3614	0.43	0.15	0.30	4.84	1.28
BI	202 10:11		CB409	44.8757	67.156	1	1.16	2.48	11.136	31.094		12	30.84	22.5	1.77	0.414	6	11.1	6.2	3617	0.98	0.12	0.21	4.08	1.80
BI	202 10:11		CB409	44.8757	67.156	4	2.37	2	10.832	31.316	31.364									3616	2.20	0.14	0.41	3.86	1.90
LI	202 11:50		CB410	44.853	67.043	1	2.04	1.9	12.659	30.939		13.1	30.7	20	1.72	0.582	3	7.9	4.5	3619	0.38	0.00	0.39	4.53	3.86
LI	202 11:50		CB410	44.853	67.043	2.5	1.39	2.07	12.657	30.995	31.087									3618	1.17	0.26	0.25	4.44	2047.00
PR	202 12:37		CB411	44.93	67.1462	1	1.93	1.95	12.683	30.809		14.4	29.67	20	1.81	0.567	3	8.1	4.6	3621	0.30	0.26	0.28	6.15	2.49
PR	202 12:37		CB411	44.93	67.1462	2.5	1.68	2.03	12.588	30.864	31.079									3620	0.42	0.08	0.29	4.63	2.18
BG1	202 13:08	Low	CB412	44.9138	67.0702	1	1.61	1.98	11.005	31.011		11.5	31.35	23.5			6.5		7.5	3623	1.26	0.14	0.39	4.20	2.47
BG1	202 13:08	Low	CB412	44.9138	67.0702	5.5	1.9	2.18	10.857	31.276	31.387									3622	1.46	0.30	0.39	4.33	2.60
BG2	202 13:16	Low	CB413	44.911	67.0682	1	0.94	2	11.111	31.163		11.5	31.25	23			7		14.5	3625	1.18	0.15	0.37	4.26	3.05
BG2	202 13:16	Low	CB413	44.911	67.0682	13	0.78	2.19	10.971	31.259	31.352									3624	1.33	0.21	0.36	4.36	3.07
BG3	202 13:21	Low	CB414	44.9093	67.0653	1	2.04	1.86	11.192	31.142		11.8	31.17	21					13.8	3627	0.95	0.17	0.40	4.45	2.86

BG3	202 13:21	Low	CB414	44.9093	67.0653	12	1.164	2.26	11.16	31.173	31.314									3626	0.74	0.32	0.48	6.05	2.28
BG4	202 13:26	Low	CB415	44.9097	67.0597	1	2.58	1.98	11.249	31.117		11.6	31.17	21			6.5		24	3629	1.02	0.11	0.35	4.35	2047.00
BG4	202 13:26	Low	CB415	44.9097	67.0597	22	1.23	2.29	11.041	31.212	31.389									3628	1.14	0.26	0.49	4.45	4.17
BG5	202 13:33	Low	CB416	44.9067	67.0647	1	2.22	2.06	11.132	31.105		11.7	31.18	20			6		9	3631	1.03	0.31	0.35	4.09	2.94
BG5	202 13:33	Low	CB416	44.9067	67.0647	8	1.39	2.3	10.641	31.48	31.453									3630	1.42	0.16	0.40	4.42	3.04
BG3	203 11:14	High	CB416	44.9098	67.069	22	0.93	1.66	10.407	31.958	31.565									3636	2.26	0.33	0.48	4.54	2.66
BG1	203 07:38	High	CB417	44.9142	67.0715	1	1.34	1.94	10.829	31.287							7		8.5	3633	1.87	0.44	0.52	4.64	5.49
BG1	203 07:38	High	CB417	44.9142	67.0715	5	0.67	1.67	10.824	31.549	31.478									3632	1.81	0.17	0.39	4.38	3.24
BG2	203 07:44	High	CB418	44.9125	67.0697	1	0.99	2.1	10.175	31.407							8		16.5	3635	2.60	0.27	0.49	4.93	3.43
BG2	203 07:44	High	CB418	44.9125	67.0697	15	0.99	1.8	10.184	31.432	31.556									3634	-999.00	-999.00	-999.00	-999.00	-999.00
BG3	203 07:53	High	CB419	44.9098	67.069	1	1.91	1.84	10.309	31.387							8		24	3637	2.06	0.29	0.37	4.28	3.96
BG4	203 08:04	High	CB420	44.9082	67.0648	1	2.46	1.83	10.939	31.238							8		23	3639	2.13	0.20	0.53	4.95	2.72
BG4	203 08:04	High	CB420	44.9082	67.0648	21	1.08	1.14	10.274	31.402	31.545									3638	1.32	0.34	0.42	4.53	4.29
BG5	203 08:09	High	CB421	44.907	67.0627	1	1.18	1.76	10.939	31.273							5.5		5.5	3641	1.61	0.30	0.47	4.63	3.76
BG5	203 08:09	High	CB421	44.907	67.0627	4.5	1.02	1.52	10.902	31.413	31.419									3640	2.24	0.45	0.42	4.66	3.22
BH	203 08:47		CB422	44.9342	67.0516	1	0.94	1.67	11.32	31.293		11.7	31.38	15.5	0.77	0.321	8	14.3	10	3645	0.56	0.38	0.42	3.66	2.91
BH	203 08:47		CB422	44.9342	67.0516	7	0.59	1.57	11.307	31.309	31.419									3644	0.69	0.49	0.45	4.39	2.19
MI	203 09:22		CB423	44.914	67.0293	1	0.58	1.48	10.622	31.394		11.1	31.3	12.5	0.72	0.298	8	15.8	11	3647	1.63	0.15	0.47	4.55	2.97
MI	203 09:22		CB423	44.914	67.0293	9	0.65	1.7	10.457	31.445	31.527									3646	1.42	0.25	0.43	3.64	2.34
PR	203 10:13		CB424	44.9298	67.146	1	0.61	1.7	14.568	31.398		14.7	30.79	13			5.5		7	3649	0.14	0.25	0.23	6.01	2.10
PR	203 10:13		CB424	44.9298	67.146	5	0.89	1.53	12.006	31.221	31.191									3648	0.15	0.28	0.21	4.35	1.98
GP	203 10:40		CB425	44.9185	67.1083	1	0.3	1.42	11.923	30.908		13.7	31.05	11.5	0.31	0.314	7	14.7	11.2	3651	0.25	0.28	0.36	4.26	1.78
GP	203 10:40		CB425	44.9185	67.1083	9	0.32	1.3	10.835	31.363										3650	1.31	0.32	0.44	4.61	2.08
EB	203 11:02		CB426	44.9342	67.105	1	1.32	1.66	12.963	31.048		14.4	31.21	30	1.23	0.322	6	14.3	10	3653	0.14	0.19	0.38	3.89	1.44
EB	203 11:02		CB426	44.9342	67.105	8	1.14	1.7	11.2	31.316	31.47									3652	2047.00	2047.00	0.44	3.63	1.50
MSB	203 11:33		CB427	44.8782	67.0627	1	1.37	1.92	11.241	31.277		13.7	31.05	26	1.41	0.303	8	15.2	9	3655	0.29	0.20	0.20	4.26	1.52
MSB	203 11:33		CB427	44.8782	67.0627	7	1.44	1.95	11.02	31.428	31.415									3654	0.92	0.18	0.39	4.51	1.62
WSB	203 11:50		CB428	44.8923	67.0578	1	1.42	1.93	11.444	31.215		13.9	31.44	23.5	1.52	0.4	7	11.5	10	3657	0.22	0.16	0.36	4.40	1.50
WSB	203 11:50		CB428	44.8923	67.0578	8	1.61	1.78	10.888	31.402	31.43									3656	0.66	0.31	0.34	4.57	1.51
LE1	203 12:56	Low	CB429	44.8645	66.9893	1	0.94	1.84	10.883	31.041							7		12	3659	1.71	0.31	0.50	4.79	2.41
LE1	203 12:56	Low	CB429	44.8645	66.9893	10	1.16	1.91	10.216	31.671	31.705									3658	2.18	0.24	0.47	5.34	2.28
LE2	203 13:04	Low	CB430	44.8722	66.9948	1	0.3	1.29	10.585	31.403							7		15	3661	1.46	0.23	0.26	3.16	2.23
LE2	203 13:04	Low	CB430	44.8722	66.9948	13	1.45	1.88	10.461	31.57	31.55									3660	1.73	0.25	0.36	4.30	3.03
LE3	203 13:12	Low	CB431	44.8793	66.997	1	0.14	1.1	10.557	31.378							7		16.5	3663	1.60	0.01	0.42	3.48	1.80
LE3	203 13:12	Low	CB431	44.8793	66.997	15	0.21	1.13	10.519	31.45	31.533									3662	1.18	0.24	0.65	2.98	2.40
LE4	203 13:18	Low	CB432	44.8825	66.9992	1	0.24	1.16	10.798	31.332							7.5		20	3665	1.17	0.10	0.53	3.38	2.18
LE4	203 13:18	Low	CB432	66.9992	66.9992	18	0.32	1.16	10.809	31.378	31.533									3664	1.18	0.11	0.49	3.32	1.89
LE5	203 13:25	Low	CB433	44.8872	66.9955	1	0.62	1.53	10.793	31.287		11.5	31.35	38			8		33	3667	0.93	0.18	0.44	3.47	1.80
LE5	203 13:25	Low	CB433	44.8872	66.9955	31	1.21	1.67	10.915	31.308	31.453									3666	1.54	0.10	0.46	4.29	2.71
LE6	203 13:30	Low	CB434	44.8912	66.9947	1	1.69	1.37	10.639	31.34		11.4	31.44	38			7.5		17	3669	0.99	0.11	0.63	3.14	1.63
LE6	203 13:30	Low	CB434	44.8912	66.9947	15	1.88	1.74	10.625	31.36	31.488									3668	1.09	0.09	0.42	3.31	1.76
LE1	204 08:44	High	CB435	44.8648	66.9917	1	2.552	1.93	10.553	31.371		10.7	31.54	42			7		18.5	3671	1.60	0.22	0.58	3.79	3.69
LE1	204 08:44	High	CB435	44.8648	66.9917	17	1.75	1.78	10.248	31.48	31.569									3670	2.25	0.16	0.33	4.15	2.49
LE2	204 08:55	High	CB436	44.8718	66.994	1	3.16	1.91	10.542	31.421		10.9	31.27	40			7.5		16	3673	2.13	0.17	0.44	4.57	2.35
LE2	204 08:55	High	CB436	44.8718	66.994	14	2.68	2.02	10.55	31.429	31.58									3672	1.70	0.21	0.31	3.69	1.97
LE3	204 09:04	High	CB437	44.8772	66.9982	1	2.6	1.97	10.44	31.437		10.7	31.35	39			7.5		23	3675	2.51	0.35	0.50	4.86	2.56
LE3	204 09:04	High	CB437	44.8772	66.9982	21	2.69	1.94	10.435	31.449	31.589									3674	2.15	0.26	0.38	4.18	2.23
LE4	204 09:13	High	CB438	44.8818	66.9995	1	3.09	1.97	10.538	31.414		10.8	31.26	41.5			7.5		11	3677	1.11	0.19	-999.00	4.14	4.46
LE4	204 09:13	High	CB438	44.8818	66.9995	9	2.51	1.98	10.385	31.485	31.598									3676	1.04	0.22	-999.00	3.76	4.66
LE5	204 09:25	High	CB439	44.8867	66.9968	1	2.31	1.88	10.254	31.45		10.7	31.35	37			6		37	3679	1.81	0.18	-999.00	4.07	4.44
LE5	204 09:25	High	CB439	44.8867	66.9968	35	1.95	1.96	9.542	31.672	31.716									3678	1.93	0.24	0.50	4.37	4.20
LE6	204 09:44	High	CB440	44.8915	66.9947	1	1.96	1.87	9.855	31.613		10.3	31.39	32.5			8		15	3681	1.80	0.35	0.48	6.73	2.87
LE6	204 09:44	High	CB440	44.8915	66.9947	13	1.21	1.96	9.232	31.732	31.873									3680	2.19	0.13	0.48	4.72	4.99
BC	204 09:59		CB441	44.9023	67.0065	1	2.39	1.98	10.504	31.584		11.9	31.69	40	2.28	0.277	7	16.8	7	3683	1.84	0.67	0.46	4.23	2.49
BC	204 09:59		CB441	44.9023	67.0065	5	2.12	1.98	10.44	31.648	31.617									3682	2.05	0.29	0.41	3.97	3.41
JB	204 10:31		CB442	44.8627	67.0092	1	2.37	2.08	10.619	31.44		11.3	31.42	41.5	2.5	0.259	7	17.8	10	3685	1.75	0.28	-999.00	4.35	3.66
JB	204 10:31		CB442	44.8627	67.0092	8	2.62	2.17	10.492	31.534	31.63									3684	1.72	0.32	0.41	4.23	3.64
CI	204 11:11		CB443	44.8902	67.0272	1	2.42	2.04	10.357	31.471		10.7	31.54	38	2.18	0.249	8	18.5	9	3687	1.32	0.29	-999.00	3.77	2.58
CI	204 11:11		CB443	44.8902	67.0272	7	1.93	2.15	10.394	31.52	31.597									3686	0.84	0.21	-999.00	3.87	3.06
DR	297 10:05		CB501	44.9043	67.1808	1	0.74	1.45	11.745	31.358	30.911	12.1	29.89	62	0.71	0.636	3	7.2	6	101	0.43	0.15	-999.00	4.84	1.28
DR	297 10:05		CB501	44.9043	67.1608	4	0.67	1.47	11.758	31.424	31.398									102	0.57	0.10	-999.00	3.80	1.54
WB	297 11:00		CB502	44.822	67.1518	1	0.87	1.55	11.948	31.187	31.298	12.3	30.4	64.5	0.91	0.682	3.5	6.8	6.5	103	0.57	0.12	-999.00	4.77	1.21
WB	297 11:00		CB502	44.822	67.1518	4	0.94	1.49	11.935	31.488	31.54									104	0.23	0.08	-999.00	5.12	1.64
BI	297 11:45		CB503	44.8757	67.1558	1	0.46	1.31	11.701	32.015		12.1	31.33	62	0.52	0.44	4.5	10.5	6	105	2.20	0.14	-999.00	3.88	1.90
BI	297 11:45		CB503	44.8757	67.1558	8	0.58	1.39	11.72	32.074	32.241									106	0.98	0.12	-999.00	4.08	1.80
GI	297 12:20		CB504	44.885	67.1148	1	0.56	1.58	11.631	31.908		12.2	31.05	63.5	0.63	0.474	3.5	9.7	10.5	107	1.17	0.28	-999.00	4.44	2047.00
GI	297 12:20		CB504	44.885	67.1148	8	0.7	1.44	11.735	32.048	32.133									108	0.38	0.00	0.39	4.53	3.88
LD1	297 12:50	High	CB505	44.8932	67.1107	1	0.04	1.08	11.784	31.925		12.1	31.23	62.5			5.5		12.5	109	0.42	0.08	-999.00	4.63	2.18
LD1	297 12:50	High	CB505	44.8932	67.1107	10	0.05	1	11.762	31.956	32.1									110	0.30	0.28	-999.00	6.15	2.49
LD4	297 12:56	High	CB506	44.8938	67.1057	1	0.07	1	11.717	31.987		12.1	31.23	62			4		12.5	111	1.46	0.30	0.39	4.33	2.80
LD4	297 12:56	High	CB506	44.8938	67.1057	10	0.09	0.95	11.729	31.979	32.146									112	1.26	0.14	0.39	4.20	2.47
LD3	297 13:04	High	CB507	44.896	67.108	1	0.76	1	11.716	31.969		12.1	31.23	62			4.5		26.5	113	1.33	0.21	0.36	4.38	3.07
LD3	297 13:04	High	CB507	44.896	67.108	25	0.13	1.03	11.736	31.396	32.101									114	1.16	0.15	0.37	4.26	3.05
LD2	297 13:15	High	CB508	44.8942	67.1097	1	0.24	1.2	11.768	31.939		12.1	31.14	62			4		22.5	115	0.74	0.32	0.48	6.05	2.28
LD2	297 13:15	High	CB508	44.8942	67.1097	20	0.33	1.16	11.769	31.948	32.114									116	0.95	0.17	0.40	4.45	2.86
SC	297 13:40		CB509	44.8983	67.1212	1	0.44	1.48	11.95	31.681		12.3	31.16	64.5	0.49	0.517	4	8.9	6	117	1.14	0.26	0.49	4.45	4.17
SC	297 13:40		CB509	44.8983	67.1212	4	0.54	1.33	11.796	31.988	32.086									118	1.02	0.11	-999.00	4.35	2047.00
FH	297 14:35		CB510	44.8857	66.9803	1	0.81	1.73	11.666	32.065		12	31.33	61	0.74		6		27.5	119	1.42	0.16	0.40	4.42	3.04
FH	297 14:35		CB510	44.8857	66.9803	25	0.67	1.64	11.588	32.131	32.29									120	1.03	0.31	-999.00	4.09	2.94
EPB	297 14:55		CB511	44.9057	66.9727	1	0.83	1.59	11.647	32.077		12	31.32	61	0.8		5		37.5	121	1.61	0.17	0.39	4.38	3.24
EPB	297 14:55		CB511	44.9057	66.9727	35	0.76	1.55	11.589	32.123	32.294									122	1.87	0.44	0.52	4.84	5.49
BG1	298 07:08	Low	CB512	44.9127	67.0708	1	0.72	1.53	11.815	31.983		12.1	31.23	62.5					8	123	2.60	0.27	0.49	4.93	3.43
BG1	298 07:08	Low	CB512	44.9127	67.0708	6	0.67	1.47	11.819	31.989	32.141									124	2.28	0.33	0.48	4.54	2.88
BG5	298 07:15	Low	CB513	44.9067	67.064	1	0.81	1.54	11.818	31.941		12.1	31.42	62					7	125	2.06	0.29	0.37	4.28	3.96
BG5	298 07:15	Low	CB513	44.9067	67.064	5	0.74	1.53	11.797	31.987	32.134									126	1.32	0.34	0.42	4.53	4.29
BG4	298 07:21	Low	CB514	44.9093	67.065	1	0.79	1.51	11.865	31.912		12.1	31.23	62.5					22.5	127	2.13	0.20	0.53	4.95	2.72
BG4	298 07:21	Low	CB514	44.9093	67.065	20	0.78	1.55	11.869	31.913	32.072									128	2.24	0.45	0.42	4.88	3.22
BG3	298 07:26	Low	CB515	44.9098	67.068	1	0.79	1.54	11.868	31.911		12.1	31.23	63					22.5	129	1.61	0.30	0.47	4.63	3.76

BG3	298 07:26	Low	CB515	44.9098	67.068	20	0.75	1.42	11.871	31.909	32.071									130	1.45	0.04	0.46	4.59	2.86
BG2	298 07:31	Low	CB516	44.9123	67.0688	1	0.97	1.55	11.866	31.924		12.1	31.23	63					14.5	131	1.13	0.29	0.43	4.43	3.18
BG2	298 07:31	Low	CB516	44.9123	67.0688	10	0.91	1.61	11.854	31.953	32.152									132	0.69	0.49	0.45	4.39	2.19
PR	298 08:00		CB517	44.9292	67.1445	1	2.19	1.81	12.16	31.635		12.4	30.89	66	1.82		2.5		6	133	0.58	0.38	-999.00	3.68	2.91
PR	298 08:00		CB517	44.9292	67.1445	4	1.44	1.73	12.133	31.722	31.812									134	1.42	0.25	-999.00	3.64	2.34
GP	298 08:40		CB518	44.9155	67.1065	1	0.93	1.57	12.028	31.811		12.3	31.26	64.5	0.83	0.463	3.5	9.9	13	135	1.63	0.15	0.47	4.55	2.97
GP	298 08:40		CB518	44.9155	67.1065	10	0.73	1.54	11.909	31.904	32.045									136	0.15	0.28	-999.00	4.35	1.98
EB	298 09:02		CB519	44.9368	67.107	1	1.13	1.56	12.087	31.776		12.4	31.17	65	0.99	0.571	3	8.1	7.5	137	0.14	0.25	-999.00	6.01	2.10
EB	298 09:02		CB519	44.9368	67.107	5	0.85	1.58	12.052	31.802	31.962									138	1.31	0.32	0.44	4.81	2.08
WSB	298 09:40		CB520	44.888	67.0775	1	0.58	1.54	11.879	31.884		12.1	31.42	63	0.57	0.386	3.5	11.9	12.5	139	0.25	0.28	0.36	4.28	1.78
WSB	298 09:40		CB520	44.888	67.0775	10	0.56	1.4	11.866	31.898	32.053									140	2047.00	2047.00	-999.00	3.63	1.50
MSB	298 10:00		CB521	44.874	67.0552	1	0.28	1.15	11.638	31.937		12.2	31.44	63	0.26	0.651	3	7.1	9	141	0.14	0.19	-999.00	3.89	1.44
MSB	298 10:00		CB521	44.874	67.0552	7	0.26	1.06	11.838	31.938	32.112									142	0.92	0.18	0.39	4.51	1.62
LI	298 10:30		CB522	44.8505	67.0423	1	0.11	1.04	12.009	31.836		12.3	31.26	64.5	0.11	0.651	3	7.1	9	143	0.29	0.20	-999.00	4.28	1.52
LI	298 10:30		CB522	44.8505	67.0423	4	0.11	1	12.018	31.834	31.996									144	0.86	0.31	-999.00	4.57	1.51
ESB	298 11:00		CB523	44.8928	67.0553	1	1.57	1.5	11.851	31.957		12.2	31.44	63.5	1.16	0.508	4	9.1	12.5	145	0.22	0.16	0.36	4.40	1.50
ESB	298 11:00		CB523	44.8928	67.0553	10	0.75	1.32	11.837	31.964	32.117									146	2.18	0.24	0.47	5.34	2.28
LE1	298 11:48	High	CB524	44.8643	66.9928	1	0.61	1	11.605	32.123		12	31.61	61.5			5.5		20	147	1.71	0.31	0.50	4.79	2.41
LE1	298 11:48	High	CB524	44.8643	66.9928	18	0.12	1.08	11.603	32.127	32.282									148	1.73	0.25	0.36	4.30	3.03
LE2	298 11:57	High	CB525	44.8678	66.992	1	0.24	1.1	11.748	32.052		12.1	31.52	62			5		23	149	1.46	0.23	-999.00	3.16	2.23
LE2	298 11:57	High	CB525	44.8678	66.992	18	0.22	1.28	11.725	32.056	32.217									150	1.18	0.24	-999.00	2.98	2.40
LE3	298 12:06	High	CB526	44.8782	66.9965	1	0.15	1.08	11.715	32.052		12	31.61	61.5			5.5		19	151	1.60	0.01	-999.00	3.46	1.80
LE3	298 12:06	High	CB526	44.8782	66.9965	15	0.13	1.08	11.71	32.054	32.219									152	1.18	0.11	-999.00	3.32	1.89
LE4	298 12:16	High	CB527	44.8823	66.9992	1	0.1	1.07	11.695	32.061		12	31.61	62			5.5		21.5	153	1.17	0.10	-999.00	3.38	2.18
LE4	298 12:16	High	CB527	44.8823	66.9992	18	0.13	1.11	11.681	32.068	32.265									154	1.54	0.10	0.46	4.29	2.71
LE5	298 12:23	High	CB528	44.8862	67.0006	1	0.14	1.09	11.589	32.129		11.9	31.79	61			6.5		34	155	0.93	0.16	-999.00	3.47	1.80
LE5	298 12:23	High	CB528	44.8862	67.0006	30	0.13	1.12	11.59	32.128	32.282									156	1.09	0.09	-999.00	3.31	1.76
LE6	298 12:33	High	CB529	44.8907	66.9975	1	0.42	1.31	11.745	32.04		12.1	31.42	61.5			3		30	157	0.99	0.11	-999.00	3.14	1.63
LE6	298 12:33	High	CB529	44.8907	66.9975	25	0.23	1.13	11.624	32.105	32.265									158	2.25	0.18	0.33	4.15	2.49
LE1	299 07:04	Low	CB530	44.8667	66.9932	1	0.66	1.69	11.599	32.041									14	159	1.60	0.22	-999.00	3.79	3.69
LE1	299 07:04	Low	CB530	44.8667	66.9932	12	0.68	1.49	11.633	31.976	32.228									160	1.70	0.21	0.31	3.69	1.97
LE2	299 07:11	Low	CB531	44.8707	66.9937	1	0.85	1.62	11.659	32.027									15	161	2.13	0.17	0.44	4.57	2.35
LE2	299 07:11	Low	CB531	44.8707	66.9937	12	0.65	1.55	11.656	32.016	32.203									162	-999.00	-999.00	-999.00	-999.00	-999.00
LE3	299 07:17	Low	CB532	44.8778	66.9975	1	0.62	1.51	11.657	32.01									15	163	5.78	0.73	0.72	8.26	2.23
LE3	299 07:17	Low	CB532	44.8778	66.9975	12	0.73	1.66	11.655	32.007	32.187									164	5.63	0.50	0.64	8.83	2.25
LE4	299 07:24	Low	CB533	44.8823	66.9988	1	0.69	1.5	11.669	31.99									15	165	5.90	0.80	0.68	7.88	2.19
LE4	299 07:24	Low	CB533	44.8823	66.9988	12	0.71	1.44	11.671	31.985	32.158									166	5.98	0.58	0.64	8.14	2.22
LE5	299 07:30	Low	CB534	44.8883	66.9978	1	0.79	1.54	11.669	31.978		11.9	31.59	60			5		30	167	6.19	0.91	0.68	8.07	2.93
LE5	299 07:30	Low	CB534	44.8883	66.9978	28	0.81	1.29	11.67	31.974	32.149									168	6.35	0.63	0.69	7.92	1.93
LE6	299 07:35	Low	CB535	44.8913	66.9977	1	1.01	1.05	11.641	32.008		11.8	31.58	59.5			5		21	169	6.25	0.57	0.72	8.22	2.40
LE6	299 07:35	Low	CB535	44.8913	66.9977	18	0.9	1.51	11.663	31.996	32.162									170	6.31	0.63	0.73	8.07	2.57
JB	299 08:15		CB536	44.8572	67.0032	1	0.22	1.15	11.587	32.04		11.8	31.68	59.5	0.26	0.458	3.5	10.1	6.5	171	5.48	0.67	0.67	8.30	2.52
JB	299 08:15		CB536	44.8572	67.0032	5	0.29	1.21	11.551	32.023	32.215									172	5.60	0.70	0.73	8.36	2.00
BC	299 08:50		CB537	44.9012	67.0077	1	0.73	1.52	11.566	32.006		10.5	31.72	59.5	0.79	0.565	5	8.2	5.5	173	6.26	0.70	0.71	8.21	2.67
BC	299 08:50		CB537	44.9012	67.0077	4	0.85	1.56	11.517	32.004	32.189									174	6.14	0.50	0.59	7.97	2.10
CI	299 09:10		CB538	44.8897	67.0262	1	0.3	1.19	11.566	32.042		11.8	31.68	59.5	0.53	0.773	2	6	7	175	6.18	0.61	0.61	7.80	1.44
CI	299 09:10		CB538	44.8897	67.0262	5	0.76	1.08	11.586	32.027	32.218									176	6.40	0.59	0.65	8.02	2.48
DC	299 09:30		CB539	44.9072	67.0197	1	0.52	1.33	11.683	31.954		11.9	31.69	60.5	0.6	0.426	4.5	10.8	6.5	177	8.98	0.82	0.73	7.95	3.85
DC	299 09:30		CB539	44.9072	67.0197	5	0.67	1.41	11.659	31.924	32.219									178	5.34	0.69	0.62	7.43	1.65
MI	299 09:50		CB540	44.9138	67.0295	1	0.11	0.96	11.656	32		11.9	31.59	60.5	0.15	0.463	4	9.9	7	179	6.47	0.67	0.74	6.10	2.30
MI	299 09:50		CB540	44.9138	67.0295	5	0.18	1.04	11.657	31.972	32.162									180	6.36	0.53	0.64	8.61	1.88
BH	299 10:30		CB541	44.9345	67.0512	1	0.93	1.33	11.661	31.98		11.9	31.69	61	1.02	0.893	2	5.2	6.5	181	6.07	0.75	0.71	7.78	2.28
BH	299 10:30		CB541	44.9345	67.0512	5	1.1	1.38	11.656	31.974	32.16									182	5.41	0.46	0.59	7.60	1.24
BG1	299 11:46	High	CB542	44.9142	67.0708	1	0.3	1.29	11.675	31.995							4		18	183	6.43	0.52	0.62	8.52	2.35
BG1	299 11:46	High	CB542	44.9142	67.0708	15	0.27	1.43	11.677	31.999	32.155									184	6.10	0.44	0.68	7.81	1.69
BG5	299 11:57	High	CB543	44.908	67.0637	1	0.17	1.1	11.656	32.027							4		18	185	6.23	0.52	0.70	7.93	2.49
BG5	299 11:57	High	CB543	44.908	67.0637	16	0.17	1.09	11.644	32.029	32.191									186	6.54	0.49	0.61	7.62	1.84
BG4	299 12:04	High	CB544	44.9078	67.0657	1	0.17	1.12	11.647	32.035							4		22.5	187	6.49	0.82	0.68	7.61	2.06
BG4	299 12:04	High	CB544	44.9078	67.0657	20	0.16	1.06	11.649	32.034	32.193									188	8.36	0.54	0.68	7.85	2.04
BG3	299 12:10	High	CB545	44.9107	67.0668	1	0.22	1.23	11.625	32.074							5		28	189	6.15	0.50	0.63	7.25	1.78
BG3	299 12:10	High	CB545	44.9107	67.0668	25	0.25	1.2	11.429	31.419	32.228									190	6.36	0.51	0.64	7.58	1.31
BG2	299 12:16	High	CB546	44.9135	67.069	1	0.63	1.57	11.63	32.071							5		14	191	6.13	0.66	0.70	7.01	2.50
BG2	299 12:16	High	CB546	44.9135	67.069	12	0.49	1.4	11.629	32.064	32.225									192	6.63	0.64	0.79	8.54	1.59
DR	311 08:15		CB601	44.9077	67.189	1	0.93	1.86	8.861	29.366	27.589	8.4	27.98	21	0.81	0.825	1.75	5.6	4.5	1719	7.39	0.60	0.56	22.69	6.12
DR	311 08:15		CB601	44.9077	67.189	4	0.69	1.46	9.135	30.31	30.161									1720	6.68	0.56	0.70	17.07	2.71
WB	311 09:00		CB602	44.822	67.1505	1	0.89	1.57	8.75	29.245	28.676	8.7	28.88	28	0.96	0.836	2	5.5	5	1721	6.68	0.55	0.60	17.28	4.88
WB	311 09:00		CB602	44.822	67.1505	5	1.03	1.88	8.958	29.928	29.83									1722	6.14	0.45	0.59	14.85	6.53
BI	311 09:30		CB603	44.8745	67.1557	1	0.71	1.47	9.96	31.639		10.2	31.68	44	0.73	0.735	1.75	6.3	6.5	1723	7.31	0.64	0.73	11.17	6.24
BI	311 09:30		CB603	44.8745	67.1557	5	0.74	1.43	9.955	31.632	31.78									1724	7.25	0.43	0.69	10.93	1.65
GI	311 10:15		CB604	44.865	67.1157	1	0.62	1.44	10.093	31.744		10.3	31.39	44	0.66	0.528	2	6.7	9	1725	7.89	0.47	0.83	10.42	4.05
GI	311 10:15		CB604	44.865	67.1157	6	0.69	1.49	10.146	31.752	31.92									1726	7.47	0.50	0.72	10.70	3.12
SC	311 10:45		CB605	44.6977	67.1217	1	0.52	1.35	9.876	31.55		10.1	31.36	42.5	0.58	0.633	3	5.5	9.5	1727	7.08	0.39	0.70	11.14	3.89
SC	311 10:45		CB605	44.6977	67.1217	8	0.63	1.34	9.888	31.556	31.725									1728	7.11	0.54	0.72	11.33	3.24
LD1	311 11:09	High	CB606	44.8943	67.1112	1	0.21	1.09	10.286	31.839		10.5	31.72	46			3		15	1729	7.46	0.63	0.66	10.10	1.55
LD1	311 11:09	High	CB606	44.8943	67.1112	13	0.27	1.13	10.287	31.814	31.976									1730	7.14	0.54	0.67	10.10	2.96
LD4	311 11:19	High	CB607	44.8935	67.1063	1	0.42	1.22	10.138	31.781		10.4	31.8	45						1731	7.35	0.80	0.70	10.29	5.78
LD4	311 11:19	High	CB607	44.8935	67.1063	15	0.52	1.24	10.146	31.773	31.95									1732	5.13	0.38	0.45	7.42	3.28
LD3	311 11:28	High	CB608	44.8943	67.108	1	0.49	1.26	10.169	31.786		10.4	31.7	45			2.5		19	1733	8.99	0.45	0.65	10.52	2.42
LD3	311 11:28	High	CB608	44.8943	67.108	18	0.56	1.33	10.193	31.793	32.03									1734	7.18	0.49	0.69	10.38	1.52
LD2	311 11:35	High	CB609	44.8942	67.1092	1	0.66	1.32	10.195	31.8		10.4	31.6	45			2		24	1735	6.04	0.35	0.54	6.86	1.75
LD2	311 11:35	High	CB609	44.8942	67.1092	22	0.52	1.47	10.311	31.841	31.993									1736	7.02	0.54	0.71	10.66	2.97
EB	311 12:30		CB610	44.9347	67.108	1	0.65	1.48	9.713	31.461		9.9	31.44	41	0.64	0.572	2	8.1	13.5	1737	7.00	0.73	0.73	12.08	2047.00
EB	311 12:30		CB610	44.9347	67.108	8	0.62	2.04	9.755	31.468	31.656									1738	6.95	0.61	0.71	11.42	2.42
PR	311 13:00		CB611	44.9292	67.1453	1	0.81	1.62	9.34	30.945		9.6	30.68	37.5	0.9	0.613	2	7.5	9	1739	8.00	0.92	0.73	13.94	4.22
PR	311 13:00		CB611	44.9292	67.1453	7	0.89	1.63	9.478	31.147	31.363									1740	6.65	0.70	0.71	12.63	6.73
GP	311 13:30		CB612	44.9163	67.1065	1	0.84	1.54	9.854	31.594		9.9	31.44	41	0.79	0.591	2	7.8	9	1741	6.97	0.56	0.70	11.71	2.30
GP	311 13:30		CB612	44.9163	67.1065	12	0.74	1.55	10.266	31.78	31.966									1742	7.40	0.55	0.71	10.39	1.67
BG1	312 10:50	High	CB613	44.9133	67.0715	1	0.11	1	10.202	31.706							2		17	1743	7.49	0.58	0.70	11.79	2.09

BG1	312 10:50	High	CB613	44.9133	67.0715	15	0.18	1.03	10.244	31.739	31.895									1744	7.13	0.52	0.69	10.64	2.39
BG5	312 11:01	High	CB614	44.9073	67.0637	1	0.21	1.02	10.059	31.583										1745	7.27	0.60	0.75	10.94	2.55
BG5	312 11:01	High	CB614	44.9073	67.0637	16	0.22	1.02	10.22	31.704	31.85						1.5		21	1746	5.86	0.42	0.63	8.58	2.48
BG4	312 11:08	High	CB615	44.9102	67.0652	1	0.24	1.01	10.266	31.768										1747	6.53	0.43	0.59	8.81	2.67
BG4	312 11:08	High	CB615	44.9102	67.0652	24			10.404	31.947	32.257						2		26	1748	6.50	0.30	0.60	8.44	1.43
BG3	312 11:14	High	CB616	44.9098	67.0688	1	0.2	1.01	10.212	31.722										1749	7.33	0.44	0.71	9.74	2.55
BG3	312 11:14	High	CB616	44.9098	67.0688	24	0.2	1.01	11.63	32.087	32.098						3.5		27	1750	7.44	0.25	0.68	9.54	1.96
BG2	312 11:24	High	CB617	44.9117	67.0697	1	0.28	1.05	10.33	31.864										1751	5.96	0.31	0.58	8.57	3.50
BG2	312 11:24	High	CB617	44.9117	67.0697	16	0.2	1.02	10.382	31.918	32.092						2.75		20.5	1752	6.95	0.52	0.66	9.17	3.27
WSB	312 12:00		CB618	44.888	67.0812	1	0.22	1.04	10.032	31.579										1753	6.75	0.54	0.66	10.28	2.31
WSB	312 12:00		CB618	44.888	67.0812	13	0.24	1	10.314	31.819	31.963	10.2	30.78	43.5	0.23	0.463	1.75	9.9	16	1754	7.37	0.35	0.70	10.61	0.82
MSB	312 12:15		CB619	44.8747	67.0568	1	0.34	1.08	9.879	31.431										1755	5.86	0.47	0.54	9.80	2.36
MSB	312 12:15		CB619	44.8747	67.0568	9	0.4	1.05	9.909	31.442	31.593	10.1	30.76	43	0.37	0.668	1.5	8.7	11	1756	6.01	0.37	0.57	10.24	1.84
LI	312 13:00		CB620	44.8508	67.042	1	0.71	1.28	9.797	30.987										1757	5.61	0.48	0.51	10.88	2.83
LI	312 13:00		CB620	44.8508	67.042	8	0.85	1.34	9.771	31.268	31.413	10	30.14	41.5	0.78	0.522	1.5	8.8	8.5	1758	6.42	0.50	0.60	11.33	6.19
ESB	312 14:00		CB621	44.8932	67.055	1	0.95	1.49	9.824	31.374										1759	6.85	0.75	0.66	11.25	2.70
ESB	312 14:00		CB621	44.8932	67.055	9	1.08	1.51	10.071	31.594	31.75	10	30.74	41.5	1.02	0.349	1.5	13.2	10.5	1760	7.17	0.46	0.70	-999.00	5.23
BG1	313 06:44	Low	CB622	44.9137	67.0715	1	0.54	1.3	9.605	31.69										1761	6.44	0.51	0.63	10.07	1.40
BG1	313 06:44	Low	CB622	44.9137	67.0715	10	0.44	1.36	9.748	31.657	31.871	9.7	31.41	38.5			3		13	1762	7.20	0.44	0.61	10.49	1.35
BG5	313 06:54	Low	CB623	44.907	67.0635	1	0.52	1.35	9.617	31.082										1763	7.25	0.55	0.73	11.86	1.90
BG5	313 06:54	Low	CB623	44.907	67.0635	10	0.57	1.39	9.595	31.102	31.223	9.7	31	38.5			2		13	1764	7.22	0.47	0.70	11.73	1.79
BG4	313 07:00	Low	CB624	44.9067	67.0658	1	0.67	1.3	9.673	31.089										1765	7.50	0.56	0.72	12.20	3.92
BG4	313 07:00	Low	CB624	44.9067	67.0658	15	0.63	1.37	9.696	31.156	31.75	9.7	31	38.5			2.5		13.5	1766	7.21	0.36	0.69	11.69	1.44
BG3	313 07:08	Low	CB625	44.9088	67.0683	1	0.66	1.4	9.647	31.134										1767	7.02	0.63	0.78	14.18	2.11
BG3	313 07:08	Low	CB625	44.9088	67.0683	18	0.6	1.36	9.715	31.215	31.358	9.7	31.1	39			2.5		21.5	1768	7.12	0.51	0.81	11.85	1.69
BG2	313 07:15	Low	CB626	44.9115	67.0705	1	0.63	1.47	9.956	31.283										1769	7.09	0.47	0.70	11.70	1.30
BG2	313 07:15	Low	CB626	44.9115	67.0705	10	0.62	1.46	9.688	31.356	31.51	9.7	31	37.5			2.5		12	1770	7.13	0.29	0.74	10.54	1.63
BH	313 08:00		CB627	44.935	67.0505	1	0.27	1	9.175	31.111										1771	7.57	0.38	0.79	12.34	4.94
BH	313 08:00		CB627	44.935	67.0505	7	0.3	1	9.141	31.088	31.213	9.2	31.13	33.5	0.29	0.553	2.5	8.3	9	1772	6.74	0.36	0.73	11.11	3.58
MI	313 08:55		CB628	44.9143	67.0288	1	0.2	1.04	9.77	31.534										1773	7.91	0.42	0.83	11.02	1.81
MI	313 08:55		CB628	44.9143	67.0288	6	0.21	1.1	9.883	31.583	31.827	9.8	31.52	39	0.21	0.832	2.75	7.3	7.5	1774	7.80	0.38	0.81	10.69	1.34
DC	313 09:20		CB629	44.9078	67.0197	1	0.21	1.04	9.726	31.395										1775	7.44	0.35	0.79	11.37	1.67
DC	313 09:20		CB629	44.9078	67.0197	7	0.26	1.07	9.774	31.454	31.93	9.8	31.42	39.5	0.24	0.628	2.5	7.3	9	1776	5.70	0.26	0.56	8.07	1.46
CI	313 09:50		CB630	44.8868	67.0275	1	0.1	0.81	9.951	31.892										1777	6.52	0.22	0.64	8.78	1.10
CI	313 09:50		CB630	44.8868	67.0275	5	0.15	0.98	9.95	31.685	31.864	10	31.85	42	0.13	0.575	2.25	8	6.5	1778	6.97	0.31	0.67	8.71	1.28
BC	313 10:20		CB631	44.9018	67.0075	1	0.03	0.93	10.056	31.749										1779	5.45	0.24	0.51	7.43	1.47
BC	313 10:20		CB631	44.9018	67.0075	6	0.05	0.91	10.064	31.681	31.907	10	31.85	43	0.04	0.488	3.5	9.4	7.5	1780	7.74	0.37	0.79	10.95	1.54
JB	313 11:00		CB632	44.8545	67.0097	1	0.04	0.85	9.674	31.736										1781	5.73	0.24	0.61	8.31	2.06
JB	313 11:00		CB632	44.8545	67.0097	6	0.05	1	9.645	31.725	31.943	9.8	31.83	39.5	0.05	0.571	2.5	8.1	8	1782	7.45	0.42	0.81	10.57	4.28
LE1	313 11:11	High	CB633	44.865	66.9922	1	0.05	0.82	10.08	31.745										1783	7.85	0.46	0.76	10.21	2.76
LE1	313 11:11	High	CB633	44.865	66.9922	16	0.07	1	10.027	31.17	31.907	10	31.85	43			3.5		20	1784	7.63	0.37	0.77	10.10	1.20
LE2	313 11:18	High	CB634	44.8697	66.9927	1	0.94	1	9.96	31.814										1785	7.84	0.57	0.80	10.31	1.92
LE2	313 11:18	High	CB634	44.8697	66.9927	18	0.1	0.96	9.953	31.796	31.943	10.2	31.88	43			3		20	1786	6.92	0.53	0.70	8.96	1.55
LE3	313 11:27	High	CB635	44.8788	66.9975	1	0.1	1	10.002	31.877										1787	7.68	0.33	0.73	9.70	0.95
LE3	313 11:27	High	CB635	44.8788	66.9975	19	0.14	0.97	10.046	31.894	32.033	10.2	31.88	43			3		23	1788	7.27	0.31	0.68	9.36	1.06
LE4	313 11:35	High	CB636	44.8823	66.9987	1	0.16	1.06	10.036	31.86										1789	7.41	0.27	0.76	9.50	0.97
LE4	313 11:35	High	CB636	44.8823	66.9987	15	0.18	1.04	10.051	31.83	32.014	10.2	31.98	43.5			3		17	1790	7.84	0.38	0.82	10.00	1.34
LE5	313 11:43	High	CB637	44.8867	66.9975	1	0.24	1.44	10.388	32.157										1791	7.90	0.26	0.76	9.01	1.24
LE5	313 11:43	High	CB637	44.8867	66.9975	33	0.27	1.32	10.387	32.149	32.296	10.5	31.72	46			7		36	1792	7.94	0.33	0.77	9.10	0.60
LE6	313 11:51	High	CB638	44.8912	66.9975	1	0.34	1.25	10.243	31.965										1793	6.45	0.28	0.61	8.35	0.83
LE6	313 11:51	High	CB638	44.8912	66.9975	28	0.38	1.56	10.39	32.155	32.292	10.3	31.69	44			4		29.5	1794	7.55	0.35	0.63	8.49	0.61