

# The 3<sup>rd</sup> *Fermi* GBM Gamma-Ray Burst Catalog: The First Six Years

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## ABSTRACT

Since its launch in 2008, the *Fermi* Gamma-ray Burst Monitor (GBM) has triggered and located on average approximately two  $\gamma$ -ray bursts (GRB) every three days. Here

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we present the third of a series of catalogs of GRBs detected by GBM, extending the second catalog by two more years, through the middle of July 2014. The resulting list includes 1405 triggers identified as GRBs. The intention of the GBM GRB catalog is to provide information to the community on the most important observables of the GBM detected GRBs. For each GRB the location and main characteristics of the prompt emission, the duration, peak flux and fluence are derived. The latter two quantities are calculated for the 50 – 300 keV energy band, where the maximum energy release of GRBs in the instrument reference system is observed, and also for a broader energy band from 10 – 1000 keV, exploiting the full energy range of GBM’s low-energy NaI(Tl) detectors. Using statistical methods to assess clustering, we find that the hardness and duration of GRBs are better fitted by a two-component model with short-hard and long-soft bursts, than by a model with three components. Furthermore, information is provided on the settings and modifications of the triggering criteria and exceptional operational conditions during years five and six in the mission. This third catalog is an official product of the *Fermi* GBM science team, and the data files containing the complete results are available from the High-Energy Astrophysics Science Archive Research Center (HEASARC).

*Subject headings:* catalogs –  $\gamma$ -ray burst: general

## 1. INTRODUCTION

Since the first  $\gamma$ -ray burst (GRB) was observed by the Vela satellite (Klebesadel et al. 1973), the number of flashes of high-energy radiation that have been detected has increased dramatically, especially since the 1991 launch of the Compton Gamma Ray Observatory and its  $\gamma$ -ray burst instrument, the Burst and Transient Source Experiment (BATSE) (Meegan et al. 1992). The GBM technique of detecting and locating GRBs is largely based on BATSE (Fishman et al. 1989), which operated from 1991 to 2000. Both instruments employ multiple sodium iodide [NaI(Tl)] detectors to achieve full sky field of view, have on-board burst triggering capability and use the relative count rates to obtain approximate directions to bursts. GBM also includes two bismuth germanate (BGO) detectors that are better suited for the detection of higher energy  $\gamma$ -ray photons. BATSE, with significantly larger (20'' in diameter 1'' thick) NaI(Tl) detectors, had better sensitivity, while GBM has a broader energy range and higher data rate.

*Fermi* was launched on June 11, 2008 and is now operating successfully in space for more than seven years. GBM’s main task is to augment the mission’s capability to detect and locate GRBs as well as to provide broad-band spectral information. GBM extends the energy range of the main instrument, the Large Area Telescope (LAT: 30 MeV – 300 GeV) down to the soft  $\gamma$ -ray and X-ray energy range (8 keV – 40 MeV). This allows for observations over more than seven decades in energy.

In the six years of operation since triggering was enabled on 2008 July 12, GBM has triggered 3350 times on a variety of transient events: 1405 of these are classified as GRBs (in two cases the same GRB triggered GBM twice), 198 as bursts from soft  $\gamma$  repeaters (SGRs), 469 as terrestrial  $\gamma$ -ray flashes (TGFs), 795 as solar flares (SFs), 304 as charged particle (CPs) events, and 179 as other events (Galactic sources, accidental statistical fluctuations, or too weak to classify). Table 1 shows a breakdown of the observed event numbers sorted by the time periods covered by the first GBM burst catalog (2008 July 12 to 2010 July 11) (Paciesas et al. 2012), the second GBM catalog (2010 July 12 to 2012 July 11) (von Kienlin et al. 2014) and the additional two years included in the current catalog (2012 July 12 to 2014 July 11) again separated according to the event type. In addition, the number of Autonomous Repoint Requests (ARRs, described in Section 2.2 below) and GRBs detected by LAT, observed with high confidence above 100 MeV (and 20 MeV), are given (Ackermann et al. 2013). The preliminary results of the GBM team analyses for bright bursts and those bursts simultaneously detected by other satellite instruments are reported in the Gamma-ray Coordinates Network (GCN) circulars<sup>1</sup>, a very effective way of informing the GRB research community of the initial properties of GRBs. Here we present the final results after a careful analysis of the full set of burst data using detector response functions for the best available burst location. This catalog lists for each GRB the location and the main characteristics of the prompt emission, the duration, peak flux and fluence. In addition, the distributions of these derived quantities for the entire 6 year period are also presented.

The upcoming GBM spectral catalog<sup>2</sup> provides information on the systematic spectral analysis of nearly all GRBs listed in the current catalog, including time-integrated fluence and peak flux spectra. A new catalog of time resolved spectral analysis of bright GRBs of the first 4 years has also been compiled (Yu et al. 2015).

In §2.1 and 2.2 we briefly describe the GBM detectors and the GBM GRB localization technique together with a description of the onboard triggering algorithms and the path of trigger information dissemination. Furthermore a brief description of the GBM data products is presented. Section 2.3 reports the GRB trigger statistics of the first six years, comparing them with the triggers on other event classes. Major changes in operational conditions occurring during years 5 & 6 are also mentioned. A summary of the major steps of the catalog analysis is given in §3. The catalog results are presented in §4 and are discussed in §5. Finally, in §6 we conclude with a summary.

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<sup>1</sup> <http://gcn.gsfc.nasa.gov/>

<sup>2</sup>GBM 8 Year Spectroscopy Catalog, in prep.

## 2. FERMI GAMMA-RAY BURST MONITOR

### 2.1. GBM Detectors

The capability of GBM to detect and locate GRBs in the energy range of the maximum energy release in the observer reference system and to provide energy overlap with that of the main instrument (LAT) is achieved by the use of two different types of inorganic scintillation detectors. In the energy range from 8 keV to 1 MeV, 12 thallium-doped sodium iodide detectors [NaI(Tl)], each of which is attached to a 5'' photomultiplier tube (PMT), are used. The NaI(Tl) detectors are each 1.27 cm thick by 12.7 cm diameter and are deployed around the spacecraft in such a way that each detector observes the sky at a different inclination, providing visibility of the entire sky unocculted by the Earth. The relative count rates of the NaI detectors, which have a quasi-cosine response, are used to determine the locations of triggered GRBs. The location of a GRB is calculated by comparing the measured background-subtracted count rates in individual detectors with a lookup table, containing a list of relative detector rates for a grid of simulated sky locations of  $\gamma$ -ray point sources.

The on-board and on-ground lookup tables have resolutions of 5 degrees and 1 degree, respectively. With this method the limiting accuracy is approximately 8 degrees for on-board locations and approximately 4 degrees for on-ground locations. A detailed investigation of the GBM location accuracy can be found in Connaughton et al. (2015).

For the detection of the prompt  $\gamma$ -ray emission in the MeV-range, between  $\sim 200$  keV and 40 MeV, detectors employing the high density scintillation crystal Bismuth Germanate (BGO) are used. Two detectors using large cylindrical BGO crystals, 12.7 cm diameter by 12.7 cm thick, each coupled to two 5'' photomultipliers, one on each end, are mounted on opposite sides of the spacecraft, allowing observations of the full unocculted sky and providing spectral information up to tens of MeV regime for all GBM detected bright and hard GRBs. The GBM instrument is described in more detail in Meegan et al. (2009).

### 2.2. Triggering and Post-trigger Operations

The GBM Flight Software (FSW) continuously monitors the detector count rates to detect GRBs and other short-timescale transients. A burst trigger occurs when the FSW detects an increase in the count rates of two or more NaI(Tl) detectors above a preset but adjustable threshold specified in units of the standard deviation of the background rate. The background rate is an average rate accumulated over the previous 17 seconds, excluding the most recent 4 s. Energy ranges are confined to combinations of the eight channels of the CTIME data (Meegan et al. 2009). Trigger timescales may be defined as any multiple of 16 ms up to 8.192 s. Except for the 16 ms timescale, all triggers include two phases offset by half of the accumulation time, which has been suggested to be optimal (Band 2002). A total of 120 different triggers can be specified, each with a

distinct threshold. The trigger algorithms currently implemented include four energy ranges: the BATSE standard 50 - 300 keV range, 25 - 50 keV to increase sensitivity for SGRs and GRBs with soft spectra,  $> 100$  keV, and  $> 300$  keV to increase sensitivity for hard GRBs and TGFs (Fishman et al. 2011). Ten timescales, from 16 ms to 8.192 s in steps of a factor 2, are implemented in the 50 - 300 keV range and the 25 - 50 keV range. The  $> 100$  keV trigger excludes the 8.192 s timescale, and the  $> 300$  keV trigger has only four timescales, viz. 16, 32, 64 and 128 ms. The concept of the trigger algorithm was adopted from BATSE, but with added algorithms running in parallel. The large number of algorithms and flexibility has made it possible to investigate whether the population of GRBs observed by BATSE was actually biased by the latter’s limited number of trigger algorithms. This also adds an improvement in the GBM trigger sensitivity (Band 2002; Band et al. 2004). The standard setting of the offset is half the timescale of the original algorithm as mentioned above. A summary of the actual settings (by July 2014) and the changes in the first six years of the mission is shown in Table 2.

Since GBM triggers on a variety of astrophysical transients in addition to GRBs, the FSW performs an automatic event classification by using a Bayesian approach that takes into account (i) the event localization, (ii) spectral hardness, and (iii) the spacecraft geomagnetic latitude (Meegan et al. 2009). This information is very important and useful for the automated follow up observations. Furthermore the capabilities of the instrument to detect events other than GRBs were improved by tuning dedicated trigger algorithms using refined Bayesian priors.

Following a trigger some important parameters that are needed for rapid ground-based follow-up observations, *i.e.*, onboard preliminary localization, event classification, burst intensity and background rates, are downlinked as TRIGDAT data by opening a real time communication channel through the Tracking and Data Relay Satellite System (TDRSS). In addition, these data are used in near real-time by the Burst Alert Processor (BAP), redundant copies of which are running at Goddard Space Flight Center (GSFC) and at the GBM Instrument Operations Center (GIOC) at the National Space Science and Technology Center (NSSTC) in Huntsville, Alabama. Relative to the GBM FSW, the BAP provides improved locations, since it uses a finer angular grid (1 degree resolution) and accounts for differences in the burst spectra and more accurately for atmospheric and spacecraft scattering. Users worldwide are informed within seconds about the flight and automatic ground locations and other important parameters by the automatic dissemination of notices via the GCN as mentioned before. The GBM burst advocates (BA), working in alternating 12 hr shifts at the GIOC and collaborating institutions in Europe, including the operations center MGIOC at the Max Planck Institute for Extraterrestrial Physics (MPE) in Garching, Germany, use the TRIGDAT data to promptly confirm the event classification and generate refined localizations by applying improved background models and detector response functions. Unless a more precise localization of the same GRB has been reported by another mission, a GCN notice with the final position and classification is sent out by the BA. In addition, the BAs compute preliminary durations, peak fluxes, fluences and spectral parameters, and report the results in a GCN circular in case of a bright event or a GRB that was already detected by another instrument.

The GBM FSW promptly notifies the LAT of trigger times and locations of triggered GRBs as well as their preliminary classifications in order to launch dedicated onboard burst search algorithms for the detection of possible high-energy emission. In case of a sufficiently intense GRB, which exceeds a preset threshold for peak flux or fluence, a request for an ARR of the spacecraft is transmitted to the LAT and forwarded to the spacecraft FSW. Acceptance of the ARR by the spacecraft FSW initiates a special observation mode that maintains the burst location in the LAT field of view for an extended duration (currently 2.5 hours, subject to Earth limb constraints), to search for delayed high-energy emission. Table 1 lists the total number of ARRs which occurred in the first six years and the table 5 identifies those GRBs for which the GBM FSW issued an ARR.

The continuous background count rates recorded by each detector are downlinked as two complementary data types, the 256 ms high temporal resolution CTIME data with 8 energy channels and the low temporal resolution (4 s) CSPEC data with full spectral resolution of 128 energy channels that are used for spectroscopy. The lookup tables (LUTs) are used by the GBM FSW to define the boundaries of the CTIME and CSPEC spectral energy channels from the 4096 ADC channels. There are two CSPEC LUTs, one for the NaI(Tl) detectors and one for the BGO detectors. The current LUTs are pseudo-logarithmic so that spectral channel widths are commensurate with the detector energy resolution as a function of  $\gamma$ -ray energy. In case of an on-board trigger, the temporal resolutions of CTIME and CSPEC data are increased to 64 ms and 1 s, respectively, a mode lasting nominally for 600 s after the trigger time.

Moreover, high temporal and spectral resolution data are downlinked for each triggered event. These time-tagged event (TTE) data consist of individual photon arrival times with 2  $\mu$ s temporal resolution and 128 channel spectral resolution from each of the 14 GBM detectors, are recorded for 300 s after and about 30 s before each trigger. The benefit of this data type is the flexibility to adjust the temporal resolution to an optimal value with sufficient statistics during analysis. Beginning on November 27, 2012, TTE data have been generated continuously throughout the orbit except during *Fermi* passage through South Atlantic Anomaly (SAA, see section 2.4 for more details).

### 2.3. Trigger Statistics

The GBM instrument, which is primarily designed to detect cosmic GRBs, additionally detects bursts originating from other cosmic sources, such as Solar Flares (SFs) and SGRs, as well as extremely short but spectrally hard TGFs observed from the Earth’s atmosphere, which have been associated with lightning events in thunderstorms. Table 1 summarizes the numbers of triggers assigned to these additional event classes, showing that their total number is of the same order as the total number of triggered GRBs. Approximately 10% of the triggers are due mostly to cosmic rays or trapped particles; the latter typically occur in the entry or exit regions of the SAA or at high geomagnetic latitude. In rare cases, outbursts from known Galactic sources have caused triggers. Finally,  $\sim 6\%$  of the GBM triggers are generated accidentally by statistical fluctuations or are too weak to be confidently classified. The quarterly trigger statistics over the six years of the mission

are graphically represented in Figure 1. The rate of GRBs is slightly lower in the second two years because at the beginning of 2011 July triggers were disabled during times when the spacecraft was at high geomagnetic latitude. The McIlwainL parameter, which is used by the FSW as a threshold for disabling triggering, has been raised from 1.58 to 1.9 since year 5 while the McIlwain L threshold for disabling ARR has been retained at 1.58.

It is evident from Figure 1 that the major bursting activity from SGR sources took place in the beginning of the mission, mainly in 2008 and 2009. In addition to emission from previously known SGR sources (von Kienlin et al. 2012; van der Horst et al. 2012; Lin et al. 2011), GBM also detected a new SGR source (van der Horst et al. 2010). It is also obvious from the figure that the rate of monthly detected triggers on TGF events has increased by a factor of  $\sim 8$  to about two per week, after the upload of the new FSW version (V2.6) on November 10, 2009 (Briggs et al. 2013). This version includes additional trigger algorithms that monitor the BGO detector count rates in the 2 – 40 MeV energy range (see Table 2). This has two advantages: firstly the TGF bursts show very hard spectra up to 40 MeV and hence BGO detectors have a better sensitivity for TGFs, and secondly the deadtime in the NaI(Tl) detectors is much larger for  $\gamma$ -rays of energy  $\geq 1$  MeV<sup>3</sup> (Briggs et al. 2013).

Table 3 summarizes first trigger algorithm that triggered on bursts or flares from the different object classes. Once a trigger has occurred the FSW continues to check the other trigger algorithms and ultimately sends back the information in TRIGDAT data as a list of trigger times for all algorithms that were satisfied. This detailed information was used in Paciasas et al. (2012) to investigate the apparent improvement in trigger sensitivity relative to BATSE. It was found that mainly GBM’s additional longer trigger timescales triggers ( $> 1.024$  s) in the 50 to 300 keV energy range were able to detect GRB events which wouldn’t have triggered the BATSE experiment. These observations are confirmed by analyzing the current full 6 year dataset.

Furthermore we ascribe the improved trigger sensitivity of GBM to lower trigger threshold of  $4.5\sigma - 5.0\sigma$  (see Table 2) compared to the BATSE settings of  $5.5\sigma$  (see Table 1 in Paciasas et al. 1999). The longest timescale trigger algorithms in the 50 - 300 keV energy range, running at  $\sim 16$  s (20, 21) and  $\sim 8$  s (18, 19) were disabled in the beginning of the mission (see Table 2), since no event triggered algorithms 20 & 21 and only three GRBs triggered on algorithms 18 & 19. The algorithms running on energy channel 2 (25 -50 keV) with timescales higher than 128 ms were disabled, since they were mostly triggered by non GRB (and non SGR) events. The short timescale algorithms in the 25 - 50 keV energy range (22 - 26) were retained, mainly for the detection of SGR bursts, which are short and have soft energy spectra. Even these triggers were disabled during periods of high Solar activity (see table 4). The new algorithms above 100 keV didn’t increase the GRB detection rate. They were disabled with the exception of the shortest timescale algorithms running at 16 ms, particularly suitable for the detection of TGFs. Table 2 clearly shows the capabilities of the newly

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<sup>3</sup> $\gamma$ -rays of energy  $> 1$  MeV will be registered in the overflow channel of the NaI(Tl) spectrum which have 10 times larger deadtime.

introduced “BGO”-trigger algorithms 116 -119 for TGF detection.

## 2.4. GBM Flight Software Upgrade: Year five and six

As in previous years, the GBM instrument trigger configuration was temporarily changed in three ways that affected the GRB data: 1) some or all of the trigger algorithms were disabled, and 2) the low-level energy thresholds (LLT) were raised on the Sun-facing detectors (NaI 0-5) and 3) the soft triggers (*i.e.* trigger algorithms 22-26) were disabled every weekend Friday 15-20h UT to 13-20h UT Monday for durations anywhere between 60 to 120 hrs. This was to mitigate the generation of excessive TTE data during possible solar activity over the weekends<sup>4</sup>. During years 5-6 *Fermi* conducted a series of nadir-pointing observations to allow the LAT to detect possible  $> 100$  MeV photons during a TGF. In order to avoid spacecraft reorientation due to a possible ARR from GBM FSW, GRB triggers were disabled during these nadir observations. During these intervals TTE data generation was turned on continuously so that a sensitive search for GBM TGFs coincident with the LAT as well as untriggered GRBs, if any, could be performed. Again, in order to mitigate unacceptably high rates of TTE, the LLTs in the Sun-facing NaI(Tl) detectors were raised above the nominal as summarized in table 4.

The hardware design limits the data available to the flight computer for triggering to data binned at temporal resolutions of 16 ms and longer. Hence the onboard triggering of GBM has reduced sensitivity compared to the capabilities of the detectors because the 16 ms minimum resolution of the data used for triggering is much longer than the duration of most TGFs of about 0.1 ms, which adds unnecessary background data and reduces the trigger sensitivity. As mentioned above, the GBM TTE data type records the energies and arrival times of individual photons with  $2\mu\text{s}$  temporal resolution, 2-5  $\mu\text{s}$  absolute accuracy, and an energy resolution of 128 pseudo-logarithmic channels. The continuous TTE coverage could enhance the capability of the ground software to detect short untriggered GRBs that could potentially be coincident with a gravitational wave signal detected by LIGO (Matichard, et al. 2015). Aforesaid limitations could be circumvented by downlinking the GBM photon data as continuous TTE data and by conducting a ground-based search for TGFs and untriggered GRBs. However, early in the mission producing this data type continuously would have exceeded the original telemetry allocation of GBM. Because of its potential, increased telemetry was provided to support TTE production for a portion of the *Fermi* orbit each day (FSW V2.6) beginning 9 July 2010. To use this resource most effectively, continuous (*i.e.*, non-trigger) TTE data were produced in regions where high TGF activity was expected. Polygonal geographic regions were defined. TTE data production was commanded on when *Fermi* entered one of these regions and commanded off when *Fermi* exited. This mode of operation continued until 26 November 2012, at which time the continuous TTE data mode was extended to the entire

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<sup>4</sup>A table summarizing the intervals of non-nominal trigger settings is posted at: [http://fermi.gsfc.nasa.gov/ssc/data/access/gbm/llt\\_settings.html](http://fermi.gsfc.nasa.gov/ssc/data/access/gbm/llt_settings.html)



orbit outside of the SAA. The increased sample size and improved exposure uniformity increased the usefulness of *Fermi* for studies of TGF properties and TGF-meteorological correlations. The rate of detection of TGFs increased to nearly 850 per year (Briggs et al. 2013). The continuous TTE coverage enhanced the astrophysics capabilities of GBM as well (Aasi et al. 2014).

This new provision of the continuous TTE data production has the potential of producing excessive data that is not very useful during bright Solar Flares. To guard against this, a provision to suspend the TTE data production from the Sun-facing GBM detectors (NaI 0-5 and BGO0) was included in GBM FSW version 2.7, which was uploaded on 25 November 2012. In this version the total count rates from all 14 GBM detectors are continuously monitored by the FSW. If the total rate exceeds a threshold value, the TTE data production from the Sun-facing detectors is suspended while the other detectors continue TTE data production. The TTE data production by the Sun-facing GBM detectors resumes once the total rate falls below the threshold value and remains so for a preset time duration. The FSW parameters that are used to regulate the TTE data production may be changed by FSW commands.

### 2.5. Trigger Status Modifications during Year 5 & 6

Normal triggering criteria were changed under certain circumstances, such as increased solar activity when a large volume of TTE data are produced. In order to mitigate the possibility of filling the onboard hard disk, we disabled low energy triggers (trigger algorithms 22-26). However, if the flare is soft and yet very intense it could also trigger on higher energy algorithms during intense Solar Flares. To mitigate such cases we also raised the threshold of the Sun-facing detectors (NaI 0-5) (see table 4 for time duration of such changes).

As noted above, during this period *Fermi* was periodically run in a special mode in which the spacecraft was inverted to view the nadir. Each nadir observation lasted for about 2-3 hours (see table 4). In order to prevent an unexpected ARR from reorienting the spacecraft during nadir observations, we disabled GRB triggers. All the times and types of such GBM GRB trigger criteria modifications, are listed in table 4.

## 3. ANALYSIS RELATING TO THE PRESENT GRB CATALOG

The GBM GRB catalog analysis process is described in detail in the first and second catalog papers (see appendix of Paciesas et al. (2012); von Kienlin et al. (2014)). Here we briefly summarize the major analysis steps.

### 3.1. Burst Localization and Detector Response Matrix

The GRB locations listed in Table 5 are adopted from the BA analysis results, uploaded to the GBM trigger catalog at the GIOC (with a copy at the *Fermi* Science Support Center, FSSC<sup>5</sup>). Better locations, if any, for bursts that were detected simultaneously by any other  $\gamma$ -ray instrument, such as *Swift* (Barthelmy et al. 2005) or INTEGRAL (Basano, et al. 2003), or were localized more precisely by the Inter Planetary Network (IPN, Hurley et al. 2013) are also listed in the table. The determination of a reliable location is quite important since all analysis results depend on the response files generated for the particular GRB location.

GRB locations shown in Table 5 were produced using version 4.15 of the localization code. The GBM location uncertainties shown in the table are the circular area equivalent of the statistical uncertainty (68% confidence level). The source localization algorithm has not changed since the production of the last GRB catalog, and is detailed therein. The accuracy of the locations has been assessed using a reference sample of 200 GRBs localized by other instruments and 100 GRBs localized through the IPN. We find the distribution of systematic uncertainties for GRBs is well represented (at 68% confidence level) by a Gaussian (of standard deviation  $3.7^\circ$ ) with a non-Gaussian tail that contains about 10% of GBM-detected GRBs and extends to approximately  $14^\circ$  (Connaughton et al. 2015). A more complex model suggests that there is a dependence of the systematic uncertainty on the position of the GRB in spacecraft coordinates, with GRBs in the quadrants on the Y-axis better localized than those on the X-axis. A convolution of the statistical uncertainty with our best current model for the systematic errors produces probability maps reflecting the total uncertainty on a GBM GRB location. The maps reflect the occasional non-circular shapes of the statistical uncertainty region as well as its area. They have been packaged into new data products (ASCII, FITS, png) that have been routinely delivered to the FSSC since January 2014 and have now been processed and delivered for the GRBs prior to 2014. Because the generation of these new data products requires re-running the localization code, which has recently been automated, the actual GRB locations in the GRB catalog at the FSSC may be different from those published in the first two catalogs. The new locations are consistent, within errors, with the old locations, but the manual processing may use different background and source intervals than those selected in the automatic process.

Detector Response Matrices (DRMs) generated using the General Response Simulation System (GRESS) (Hoover, et al. 2005), agree with the data from the detector-level calibrations as a function of angle and energy within better than  $\pm 5\%$  for the BGO detectors, and  $\pm 10\%$  for the NaI(Tl) detectors. The DRMs, which contain the multivariate effective detection area, include the effects of angular dependence of the detector efficiency, partial energy deposition in the detector, energy dispersion and nonlinearity of the detector, and atmospheric and spacecraft scattering (and shadowing) of photons into the detector, partial or complete blockage of GBM detectors by the

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<sup>5</sup><http://heasarc.gsfc.nasa.gov/FTP/fermi/data/gbm/bursts/>

LAT or the radiators. They are therefore functions of photon energy, measured (deposited) energy, the direction to the source with respect to the spacecraft, and the orientation of the spacecraft with respect to the Earth. Individual DRMs needed for analysis of the science data were generated for the best available location using version GBMRSP v2.0 of the response generator and version 2 of the GBM DRM database. Two sets of DRMs are generated, one for 8-channel (CTIME) data and one for 128-channel (CSPEC & TTE) data. In case of relatively long duration GRBs multiple DRMs are used, which provide a new DRM for every 2° slew of the *Fermi* satellite (RSP2).

### 3.2. GRB Duration, Peak Flux and Fluence

Analysis of GBM data products is fundamentally a process of hypothesis testing wherein trial source spectra and locations are converted to predicted detector count histograms, and these are statistically compared to the observed data. GBM uses a special burst spectroscopy software package called RMFIT<sup>6</sup>. Here we report the duration, peak flux and fluence of each burst using an automatic batch fit routine implemented within RMFIT. Burst durations  $T_{50}$  ( $T_{90}$ ) are determined from the interval between the times where the burst has reached 25% (5%) and 75% (95%) of its maximum fluence, as illustrated by the horizontal and vertical dashed lines in figure 3. The burst durations  $T_{50}$  and  $T_{90}$  were computed in the 50-300 keV energy range. This is primarily due to the fact that GRBs have their maximum spectral density in this energy range. In addition, this energy range makes it easier to compare the present results with those of the predecessor BATSE. It may be noted that GRB durations have been shown to have a power-law dependence on energy (Qin et al. 2013). The fluence for each burst was computed in two energy ranges: 50-300 keV and 10-1000 keV. Peak fluxes for each burst were computed in the same energy ranges and for three different timescales: 64 ms, 256 ms and 1024 ms. Since a relatively small number of bursts have detectable emission in the BGO detectors, only NaI(Tl) data were used for the catalog analysis.

For each burst, a set of NaI(Tl) detectors were chosen with low source angles (typically < 60°) and no apparent blockage by any other GBM detector, or LAT or the LAT radiators. For the majority of bursts the GBM CTIME data, which have 256 ms time resolution pre-trigger and 64 ms resolution post-trigger, were used. TTE data were used for bursts where at least one of the peak fluxes occurs at or before the trigger time, which happens for many short bursts and a few longer ones. For each of the selected detector illuminated by a burst, source and background time intervals are then selected. The source interval covers the burst emission time plus approximately equal intervals of background before and after the burst (generally at least  $\sim 20$  s on either side for long GRBs while it is  $\sim 5$  s or shorter for short GRBs). Background intervals are selected before

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<sup>6</sup>We used the spectral analysis package RMFIT, which was originally developed for time-resolved analysis of BATSE GRB data but has been adapted for GBM and other instruments with suitable FITS data formats. The software is available at the *Fermi* Science Support Center: <http://fermi.gsfc.nasa.gov/ssc/data/analysis/user/> A tutorial is also available at [http://fermi.gsfc.nasa.gov/ssc/data/analysis/scitools/rmfit\\_tutorial.html](http://fermi.gsfc.nasa.gov/ssc/data/analysis/scitools/rmfit_tutorial.html)

and after the burst, about twice as wide as the burst duration and having a good overlap with the selected source interval before and after the burst as shown in figure 2. Background regions before and after the burst are fit by a polynomial of up to 4<sup>th</sup> order, separately for each detector. Depending on the background fluctuations, the lowest order polynomial that gives a good fit is chosen. The background subtracted counts spectrum of each time bin in the source interval is fit to a model incident photon spectrum by folding the photon spectrum with the DRM and minimizing the CSTAT<sup>7</sup>. For the T<sub>90</sub> analysis, the incident model spectrum is “Comptonized” (COMP) photon model:

$$f_{COMP}(E) = A \left( \frac{E}{E_{piv}} \right)^\alpha \exp \left[ -\frac{(\alpha + 2) E}{E_{peak}} \right],$$

The best fit parameters are: amplitude  $A$ , the low energy spectral index  $\alpha$  and peak energy  $E_{peak}$  (the parameter  $E_{piv}$  is fixed to 100 keV).

Figure 2 shows the light curve as measured by a single NaI(Tl) detector of a relatively long burst consisting of multiple emission periods, with the selected source and background intervals highlighted. Figure 3 shows a plot of the integrated GRB fluence in the 50 – 300 keV energy range derived from the model fitting for all time bins within the source interval. Several short duration plateaus seen in figure 3 are the time intervals where no burst emission is observed. This function is used to determine the T<sub>50</sub> (T<sub>90</sub>) burst duration from the interval between the times where the burst has reached 25% (5%) and 75% (95%) of its total fluence, as illustrated by the horizontal dashed lines.

Peak fluxes and fluences are obtained in the same analysis, using the same choices of detector subset, source and background intervals and background model fits. The peak flux is computed for three different time intervals: 64 ms, 256 ms and 1.024 s in the energy range 10 – 1000 keV and, for comparison purposes with the results presented in the BATSE catalog (Meegan et al. 1998), in the 50 – 300 keV energy range. The burst fluence is also determined in the same two energy ranges. The RMFIT analysis results presented above are stored in a BCAT fits file: `glg_bcat_all_bnymmddttt_vxx.fit` with specified wildcards for the year (yy), month (mm), day (dd), fraction of a day (ttt) and version number (xx).

#### 4. GRB CATALOG RESULTS

The catalog results can be accessed electronically through the HEASARC browser interface at <http://heasarc.gsfc.nasa.gov/W3Browse/fermi/fermigbrst.html>. Here we provide tables that summarize selected parameters.

Table 5 lists the 1405 triggers of the first six years that were classified as GRBs. The GBM Trigger ID is shown along with a conventional GRB name as defined by the GRB-observing commu-

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<sup>7</sup><http://heasarc.nasa.gov/docs/xanadu/xspec/XspecManual.pdf>

nity. Note that the entire table is consistent with the small change in the GRB naming convention that became effective on 2010 January 1 (Barthelmy et al. 2009): if for a given date no burst has been “published” previously, the first burst of the day observed by GBM includes the ‘A’ designation even if it is the only one for that day. For year 5 & 6, only GBM triggered GRBs for which a Gamma-ray burst Coordinates Network (GCN) Circular was issued are assigned a GRB name. The criterion for issuing a GBM Circular is if a GRB was either detected by any other mission (as listed in the last column of table 5 ) or it generated an ARR to the *Fermi* spacecraft or the count rate in the 50-300 keV energy range summed over the triggered detectors exceeded 1000 counts per second above the background. The third column lists the trigger time in Universal Time (UT). The next four columns of Table 5 list the sky location and associated statistical error<sup>8</sup>, along with the instrument that determined the location. The table also lists the GBM-derived location only if no higher-accuracy locations have been reported by any other instrument. If a higher-accuracy location is available its source is listed under the column ‘Location Source’ which lists only the name of the mission rather than the specific instrument onboard that mission (e.g., *Swift* implies the locations are either from *Swift*-BAT or *Swift*-XRT or *Swift*-UVOT); The errors on the GRB locations determined by other instruments are not necessarily 1  $\sigma$  values. For the GBM analysis, location accuracy better than a few tenths of a degree provides no added benefit because of significant systematic errors in GBM location (Connaughton et al. 2015). Table 5 also shows which algorithm was triggered along with its timescale and energy range. Note that the listed algorithm is the first one to exceed its threshold but it may not be the only one. The table also lists other instruments that detected the same GRB<sup>9</sup>. Finally, we identify the GBM GRBs for which an ARR was issued by the GBM FSW in the last column of table 5. We have a total of 93 GRBs (6.6% of the total) followed by ARRs during the first 6 years of *Fermi*, although the spacecraft might not have slewed in every case for technical reasons such as Earth limb constraints. The majority of these ARRs were due to high peak fluxes. In addition, there were 26 ARRs which were issued for non-GRB triggers because of the mis-classification by the GBM FSW.

The results of the duration analysis are shown in Tables 6, 7 & 8. The values of  $T_{50}$  and  $T_{90}$  in the 50–300 keV energy range are listed in Table 6 along with their respective 1  $\sigma$  error estimates (Koshut et al. 1996) and start times relative to the trigger time. For a few GRBs the duration analysis could not be performed, either because the event was too weak or due to technical problems with the input data. Also, it may be noted that the duration estimates are only valid for the portion of the burst that is visible in GBM light curves summed over those NaI(Tl) detectors whose normals make less than 60° to the source. If the burst was partially occulted by Earth or had significant emission while GBM detectors were turned off in the SAA region, the “true” durations may be underestimated or overestimated, depending on the intensity and variability of

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<sup>8</sup>For GBM derived locations the statistical 1  $\sigma$  error is given. The GBM errors are not symmetric and the given value is the average of the error ellipse.

<sup>9</sup>This information was drawn from the GCN archive, accessible at [http://gcn.gsfc.nasa.gov/gcn3\\_archive.html](http://gcn.gsfc.nasa.gov/gcn3_archive.html). A more complete list of detections is available at <http://www.ssl.berkeley.edu/ipn3/masterli.txt>.

the undetected burst emission. GRBs which triggered while *Fermi* was close to SAA or the trigger is unusual in any other way, are indicated in table 5 with a footnote. For technical reasons it was not possible to do a single analysis of the unusually long GRB091024A (Gruber et al. 2011) and GRB130925A, so the analysis was done separately for the two triggered episodes. Similarly GRB130925A (Greiner et al. 2014; Evans et al. 2014) also had 3 emission episodes well separated in time, for which GBM triggered on the first 2 episodes. These cases are also noted in the table 5. The reader may note that for most GRBs the present analysis used data binned no finer than 64 ms, so the duration estimates (but not the errors) are quantized in units of 64 ms. However for a few extremely short events TTE/CTTE data were binned with widths of 32 ms or even 16 ms in a few cases. As a part of the duration analysis, peak fluxes and fluences were computed in two different energy ranges. Table 7 shows the values in 10-1000 keV and Table 8 shows the values in 50–300 keV. The analysis results for low fluence events are subject to large systematic errors primarily because they use 8-channel spectral data and should be used with caution. The fluence measurements in the spectroscopy catalog (Gruber et al. 2014), which uses the 128-channel CSPEC or TTE data, are more reliable for such weak events.

## 5. DISCUSSION

Figure 4 shows the sky distribution of GBM triggered GRBs in Galactic coordinates. Crosses indicate long GRBs ( $T_{90} > 2$  s); asterisks indicate short GRBs. Both the long and short GRB locations do not show any obvious anisotropy, consistent with an isotropic distribution of GRB arrival directions. Also shown are the locations of GRBs that triggered *Swift*-BAT in coincidence with GBM. Many of these *Swift* coincident GRBs also have redshifts estimated by detecting the optical afterglows by ground based telescopes.

The histograms of the logarithms of GBM triggered GRB durations ( $T_{50}$  and  $T_{90}$ ) are shown in Figure 5. Using the conventional division between the short and long GRB classes ( $T_{90} \leq 2$  s and  $T_{90} > 2$  s respectively) we find that during the first 6 years there were 229 short GRBs and 1175 long GRBs. The short and long GRBs, as defined by their  $T_{90}$  in 50-300 keV, possibly belong to two different classes Kouveliotou et al. (1993). However from the  $T_{90}$  distribution shown in figure 5 the distinction seems to be less than obvious. There are also several claims in the literature on the existence of 3 types of GRBs based on multiple GRB parameters like duration, fluence, spectrum, spectral lag, peak-count rate etc., from BATSE sample (Mukherjee et al. 1998; Horvath, et al. 2006), Swift sample (Veres et al. 2010) as well as RHESSI sample (Řipa et al. 2012). The 3 groups are the familiar short-hard GRBs, long-soft GRBs and a soft-intermediate duration GRBs bridging the other two groups. Hence we decided to independently assess the number of groups in GRB durations ( $T_{90}$  and  $T_{50}$ ) as well as duration-hardness distributions by a model based clustering method using lognormal model components (‘mclust’ Fraley & Raftery 2000). This method uses a binning-independent maximum likelihood function with correction for the degrees of freedom, called Bayesian Information Criterion (BIC). We find that both the log  $T_{50}$  and log  $T_{90}$  distributions are

best described by two components with equal variance (see Fig 6). The difference in BIC values between two and three components is 12 for  $T_{50}$  and  $\sim 15$  for  $T_{90}$  (see Figure 6), both suggesting a strong preference for two groups of GRBs in the present sample. Figure 5 also shows the lognormal fits separately to long and short GRBs. The variances of the lognormal components are constrained to be equal for each group. The goodness of fit is estimated by Kolmogorov-Smirnov test that yields a probability of 0.745 and 0.796 in favor of the null hypothesis (data and model are drawn from the same distribution) for  $T_{90}$  and  $T_{50}$  distributions respectively.

In addition to quantify the extent to which 2 groups are preferred compared to 3 populations statistically, we have carried out Monte Carlo simulations. First, we simulated  $10^5$  instances of  $T_{90}$  and  $T_{50}$  with the best 2 group solution. We found that in 16 ( $p = 1.6 \times 10^{-4}$ ) and 24 ( $p = 2.4 \times 10^{-4}$ ) cases respectively the 3 group solution was preferred. To gauge the significance of the 3 group solutions we have simulated  $10^4$  instances with the best 3 group solution for both  $T_{90}$  and  $T_{50}$ . We found that a three group solution was only preferred in 3 and 41 cases respectively. This indicates that in the three group solution, the third group is not clearly distinguished.

Because the GRB groups have less overlap if we consider more than one dimension, we consider the hardness in addition to duration (discussed later in this section). We use only those bursts that have hardness errors less than the hardness value. We end up with a sample size of 1222. Using the BIC analysis again, we find that similar to the one dimensional distribution of durations, the duration-hardness data are also best described by two groups (see figure 8). In figure 8 the ellipses mark the one sigma contours of the two dimensional Gaussians. They encompass  $\approx 0.39$  of the volume of the individual components (this is analogous to the 0.68 fraction marking the one sigma region in the one dimensional Gaussian case). We find that 40.1% and 39.8% GRBs are contained within the ellipses for the short and long cases respectively, consistent with the expectations. The difference between the best 2 and 3 group solutions is 4.6 and 8.9 for the  $T_{90} - HR$  (bottom) and  $T_{50} - HR$  (top) distributions respectively. In the parlance of the BIC values, these constitute strong evidence *for* the 2 group solution. In order to have a more quantitative assessment we, again, have simulated distributions with the best 2 group solution and found 0 cases in  $10^3$  trials ( $p < 10^{-3}$ ) and 3 ( $p = 3 \times 10^{-3}$ ) cases where the 3 group solution was preferred in the  $T_{90} - HR$  and  $T_{50} - HR$  distributions respectively. In the case of  $T_{90} - HR$  distribution the best model has ellipsoidal components with equal volumes and shapes, but their orientation is free to vary (figure 9 black solid line). For  $T_{50} - HR$  distribution the best model also has ellipsoidal components while their volumes, shapes and orientations are constrained to be equal (figure 9 black solid line). In short, the model-based clustering method applied to hardness ratios and durations unveils only two clusters as the best solution: classical short/hard and long/soft groups consistent with a similar analysis carried out on the RHESSI data (Řipa et al. 2012).

Using an entirely independent approach to estimate the number of populations that can exist in the observer-frame  $T_{90}$  distribution, we employ a Bayesian Dirichlet mixture model composed of Gaussians (see Gershman and Blei 2012). This enables us to ask the question how many sub-populations exist rather than asking whether three populations fit the data better than two popu-

lations. We use an approach similar to that followed by Chattopadhyay et al. (2007) except that we adopt a hierarchical Bayesian approach which allows us to leave the concentration as a free parameter in the model. The model returns posterior distributions of the probability for each sub-population that is found. We find that there are two significant Gaussian sub-populations with 95% highest density intervals for their existence covering  $p=0.77-0.84$  and  $p=0.15-0.23$  corresponding to Gaussian means of 27.5 s and 0.79 s respectively for long and bursts. Since the entire Dirichlet must sum to  $p=1$ , this leaves little room for a third sub-population. In fact, the next highest probability for an additional subpopulation is 0.001. Additionally, we checked that using Student-t distributions to model the sub-populations, *i.e.*, seeing if non-normality or outliers changed the distributions. We found similar results with the Student-t distributions converging to Gaussians. We can therefore conclude that there exist only two sub-populations in the T90 distribution of GBM detected GRBs.

For a comparison with BATSE distribution of GRB durations, we have performed the same classification on the current BATSE catalog of 2041 GRBs consisting of 500 short and 1541 long GRBs <sup>10</sup>. For GBM GRB sample, the best fitting model is two components with equal variances, while for BATSE sample it is the two component with *unequal* variances. To compare similar quantities, we forced the unequal variance model for GBM (which gives only a marginally worse fit) and compared it to the BATSE models. The mean  $T_{90}$  for the short bursts for BATSE vs. GBM are  $T_{\text{mean,short}}^{\text{BATSE}} = 0.85$  s,  $T_{\text{mean,short}}^{\text{GBM}} = 0.82$  s for the long, similarly BATSE vs. GBM  $T_{\text{mean,long}}^{\text{BATSE}} = 35.6$  s,  $T_{\text{mean,long}}^{\text{GBM}} = 28.3$  s. The mean durations of the short and long GRBs are consistent with those estimated above by the Bayesian analysis. It may be noted that the mean durations of the GBM detected long GRBs is smaller than those of BATSE detected long GRBs. This could be an indication of the well known tip-of-the-iceberg effect resulting from the higher sensitivity of BATSE detectors which are 16 times larger than the GBM detectors.

The standard deviations of  $\log_{10}(T_{90}/\text{s})$  for short bursts in the GBM sample is 0.51 while for BATSE it is 0.64. The same quantity for long GRBs in the GBM sample is 0.64 while for BATSE it is 0.42. The larger difference between the widths of long and short GRBs of the BATSE sample explains the preference for the model with unequal variances. However the reason for unequal widths is not clear.

Since there are several changes and interruptions in GBM triggers and trigger algorithms during this catalog period (see table 4) it will not be strictly accurate to get the burst rate by dividing the number of bursts by the total duration of 6 years. Instead we derived the average GRB rates by fitting the integral interval distributions of the burst trigger times to an exponential distribution function. The estimated daily rate of short GRBs is  $(0.137 \pm 0.009)$  while that of long GRBs is  $0.602 \pm 0.018$ . The fraction of short GRBs is  $0.207 \pm 0.015$ . Selecting periods where all three BATSE trigger algorithm were set to the same value (e.g. a threshold of  $5.5\sigma$  from 1992 September 14 to 1994 September 19 and from 1996 August 29 to the end of the mission) the observed fraction

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<sup>10</sup><http://gammaray.nsstc.nasa.gov/batse/grb/catalog/current/index.html>



of short GRBs is 24% (Paciesas et al. 1999). The shortest and longest time intervals between consecutive short bursts are 1.34h and 59 days, respectively, while the average interval is 7.28 days. Similarly the shortest and longest time intervals between consecutive long bursts are 631s and 11.8 days (with no interruptions) while the average interval is 1.66 days. As already claimed in the first catalog we ascribe the lower fraction of short GRBs observed with GBM (20.7%) compared to BATSE (24%) not to a deficit of short events but rather to an excess of long events detected by GBM’s longer timescale trigger algorithms (see Section 2.3). The average GBM GRB trigger rate of  $\sim 242 \pm 6.5$  bursts/year is comparable to the BATSE rate of 300 bursts/year, in spite of the large difference in area between the BATSE and GBM detectors. The BATSE detectors were a factor of 16 larger in area, as mentioned before, resulting in a difference of a factor of 4 in sensitivity. However, the logN-logP curve is much flatter near the BATSE threshold than the  $-3/2$  power law seen at higher intensities. Also, the GBM trigger thresholds is set at 4.5 sigma above threshold, while for BATSE it was set at 5.5 sigma. The higher setting was needed to reject BATSE triggers due to fluctuations in the flux from Cygnus X-1. Although GBM employs 12 detectors compared to 8 for BATSE, the sky coverage is about the same due to obstructions by the LAT on Fermi, as opposed to clear views obtained on Compton Gamma-ray Observatory (*CGRO*). Most significantly, GBM triggers on 5 timescales from 16 ms to 4096 ms, at two different phases, whereas BATSE triggered only on 3 timescales 64, 256, and 1024 ms. Pre-launch predictions of the GBM burst rate were approximately 200 bursts/year based on scaling from BATSE, and assuming the same trigger algorithms. This is, within statistics, the observed rate of GBM triggers that would have triggered on one of the BATSE timescales. The additional  $\sim 42$  bursts/year arise mostly from the triggers on the new 4096 ms timescale.

Since the orbits of Fermi and GRO are similar, GBM and BATSE should have similar celestial sensitivity maps. However, sensitivity sky maps are not maintained for GBM since the isotropy of gamma-ray bursts is no longer controversial. Furthermore GBM slightly favors triggering on long GRBs, since the thresholds for the 64 ms timescales are higher ( $5.0\sigma$ , see Table 2) than for 256 & 1024 ms (both  $4.5\sigma$ )<sup>11</sup>.

To characterize the dependence of burst spectral hardness on duration, we computed the hardness of each GRB as the ratio of burst fluence during the  $T_{50}$  or  $T_{90}$  intervals in the energy band 50 – 300 keV to that in the 10 – 50 keV band. In this analysis, the hardness was derived from the time-resolved spectral fits for each GRB by using photon model fit parameters that are a by-product of the duration analysis. Figure 7 shows scatter plots of hardness vs.  $T_{50}$  and  $T_{90}$  durations, showing that the GBM data also exhibit the anti-correlation of spectral hardness with duration as known from BATSE data (Kouveliotou et al. 1993). However the individual data points are somewhat misleading, as the high hardness ratios tend to have large statistical errors, which are not plotted for the sake of clarity. Hence we also computed weighted mean hardness ratios for

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<sup>11</sup>It may be noted that there were also times when BATSE triggers did not use the same threshold for all 3 timescales (see Table 1 in Paciasas et al. 1999). see <http://heasarc.gsfc.nasa.gov/W3Browse/all/batsegrb.html>

GRBs in equal bins of logarithmic durations<sup>12</sup>. These are shown in green with their corresponding weighted errors. The green points indicate a gradual hardening of the GRBs as the durations fall below  $T_{90} = 2$  s, which is in contrast to PHEBUS<sup>13</sup> and BATSE observations, that showed a more discrete change in hardness at  $T_{90} = 2$  s (Dezalay et al. 1992; Paciesas et al. 2003). However we do not see any positive correlation of hardness ratio with duration for long GRBs as reported before (Dezalay et al. 1996). Instead, we see a weak anti-correlation (correlation coefficient of -0.17) of hardness ratio with duration of long GRBs in our 6 year sample.

Integral distributions of the peak fluxes observed for GRBs in the first six years are shown in Figures 10 – 12 for the three different timescales and separately for short and long GRBs. In a Euclidean space, if all the long GRB progenitors are uniformly distributed, they would be expected to follow a -3/2 power-law. However, in a Big Bang cosmology, the effects of the (unknown) GRB luminosity function, along with their distribution in redshift (which follows more or less the star formation rate up to  $z \sim 4$ ) and the threshold of the instrument are all convolved together to produce the observed distribution. The GRB peak flux distributions could however provide useful constraints in various astrophysical studies, such as in determining the true GRB rate for any jet model (Guetta, Granot and Begelman, 2005). The integral fluence distributions for the two energy intervals are also shown in Figure 13. It may be noted that the integral fluence distributions show far more curvature than the integral peak flux distributions. Although the deficit at the highest fluence end may be due to small number statistics, the observed departure from the expected power-law of slope -3/2 at low fluence may be due to the fact that these GRB fluence estimates suffer from relatively large systematic errors, primarily due to limited spectral channels and rather narrow time bins with very few events that are used for spectral fitting. Moreover, GRB triggers on GRB peak flux and not on fluence, so that there is no clear well defined GBM fluence threshold.

## 6. SUMMARY

The third GBM catalog comprises a list of 1403 cosmic GRBs that triggered GBM between July 12, 2008 and July 11, 2014. The increased sample of GRB in this catalog confirms the conclusions of the earlier two year and four year catalogs. The 6 year average GRB rate detected by GBM is  $(0.662 \pm 0.018)$  per day. The shortest and longest time interval between consecutive GRB triggers is 10 minutes and 11.77 days (with no interruptions) respectively. The shortest time interval is close to the minimum time for GBM to re-trigger. The longest time interval is  $\sim 8$  times larger than the average value of 1.5 days. Assuming that the GRB triggers follow Poisson statistics, this implies that such a large time gap could occur once in  $\sim 10$  years. The average rate of burst detections per year ( $\sim 242 \pm 6.5/\text{year}$ ), which is only slightly smaller compared to the detection rate of the BATSE instrument of  $\sim 300/\text{year}$  (Paciesas et al. 1999). One would have expected a

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<sup>12</sup>Note that these are NOT the same as weighted means of  $\log(\text{HR})$

<sup>13</sup>PHEBUS was a Soviet-French gamma-ray burst experiment onboard GRANAT satellite launched before *CGRO*.

larger difference due to the superior detection sensitivity of BATSE. This perhaps can be explained by GBM’s additional range of trigger timescales (primarily the 2 s and 4 s timescales), which are compensating for the higher burst detection threshold of GBM ( $\sim 0.7$  vs.  $\sim 0.2$  photons  $\text{cm}^{-2} \text{s}^{-1}$  for BATSE). The distribution of GBM durations is consistent with the well-known bimodal distribution measured previously (Kouveliotou et al. 1993). This is supported by two independent analyses. Assuming a  $T_{90}$  value of 2 s to distinguish between short and long GRBs, the median durations of the two groups are 0.58 s and 26.62 s for the GBM sample while they are 0.45 s and 30.75 s respectively for the BATSE sample. The median duration of GBM detected long bursts is lower than that of BATSE detected long GRBs. However the fraction of short GRBs in the GBM sample is about 21% which is not significantly different from that detected by BATSE which is 24%.

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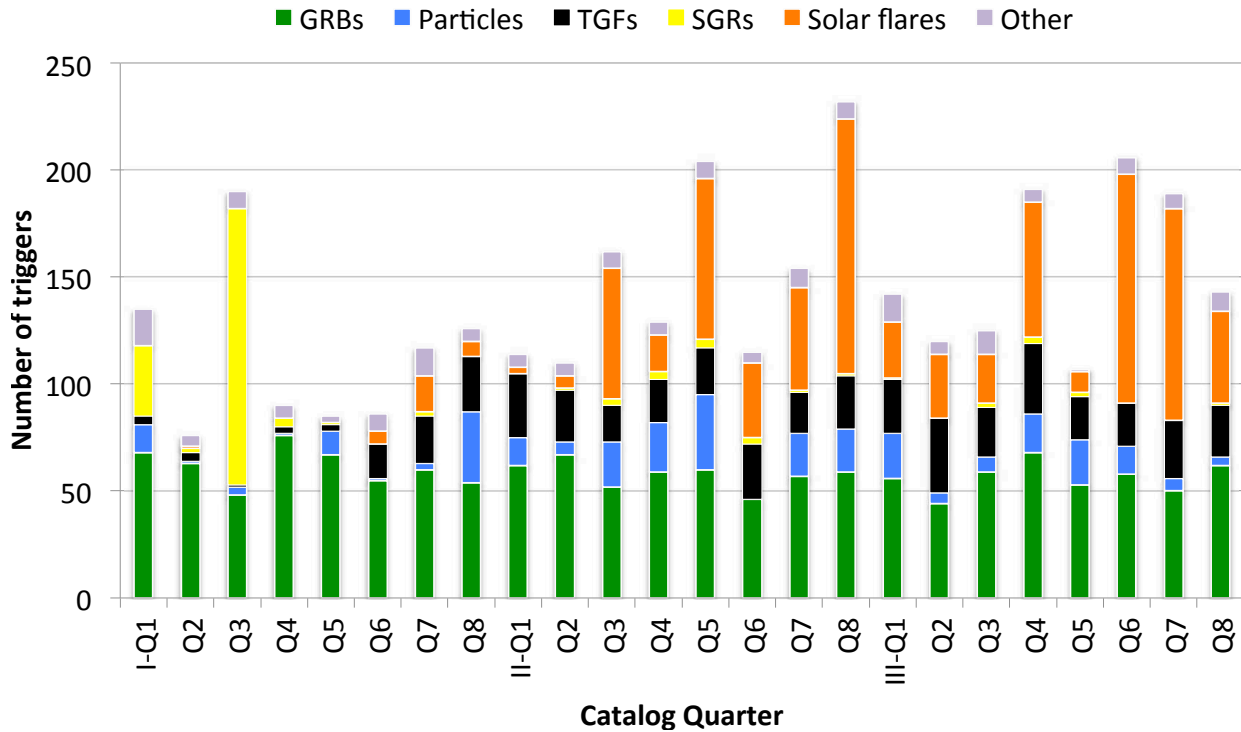


Fig. 1.— The quarterly trigger statistics over the first six years of the GBM mission. The total number of triggers in the time period from July 12, 2008 to July 11, 2014 are shown. The first quarter starts at July 12, 2008 (I-01) and ends at October 11, 2008 and so on until July 11, 2014. The different types of events triggering GBM are classified as shown at the top. The 'Other' category includes accidental triggers and those that are too weak to locate or unambiguous in nature, as well as transient burst activity from galactic sources such as Cyg X-1 and V404 Cyg.

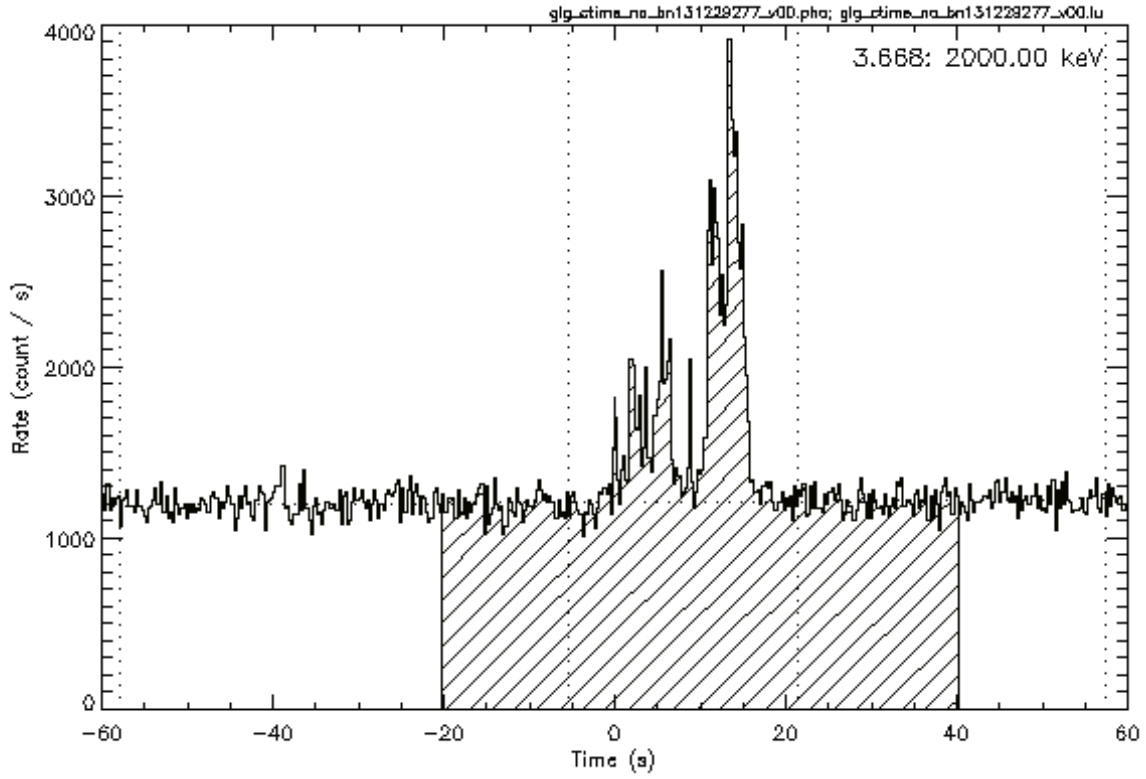


Fig. 2.— CTIME lightcurve of GRB 131229A (bn131229277) with 0.256 s temporal resolution in NaI(Tl) detector 10. Vertical dotted lines indicate the regions selected for fitting the background before and after the burst. The hatching defines the source region selected for the duration analysis. Note that the hatched region has good overlap with the background region before as well as after the burst.

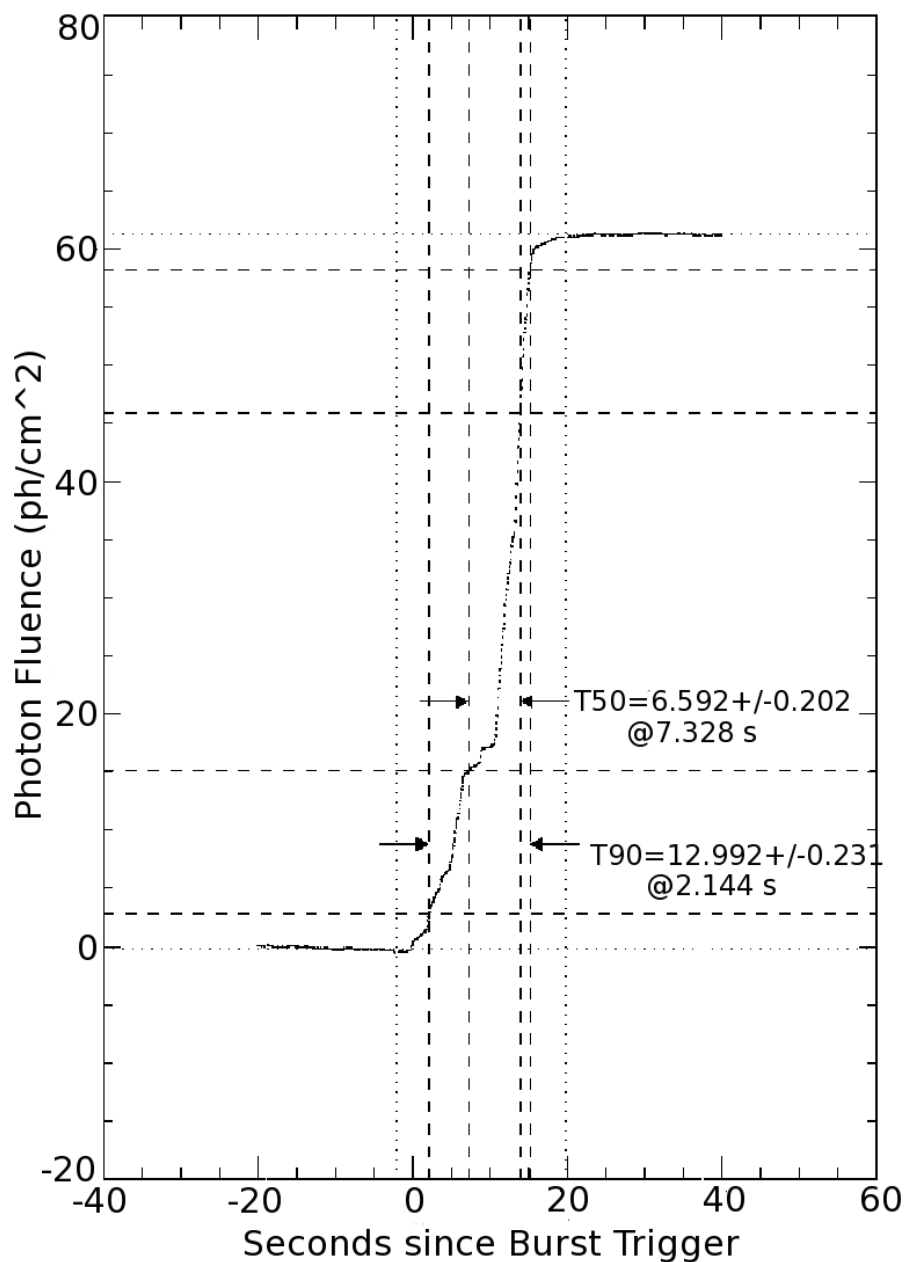


Fig. 3.— The duration plot for GRB 131229A (bn131229277) is an example of the analysis for a GRB showing multiple pulses of different widths and amplitudes, some well separated and some overlapping. Data from NaI(Tl) detectors 9, 10 & 11 were used. Horizontal dotted lines are drawn at 5%, 25%, 75% and 95% of the total fluence. Vertical dashed lines are drawn at the times corresponding to those same fluences, thereby defining the  $T_{50}$  and  $T_{90}$  intervals.



### Fermi GBM GRBs in first six years of operation

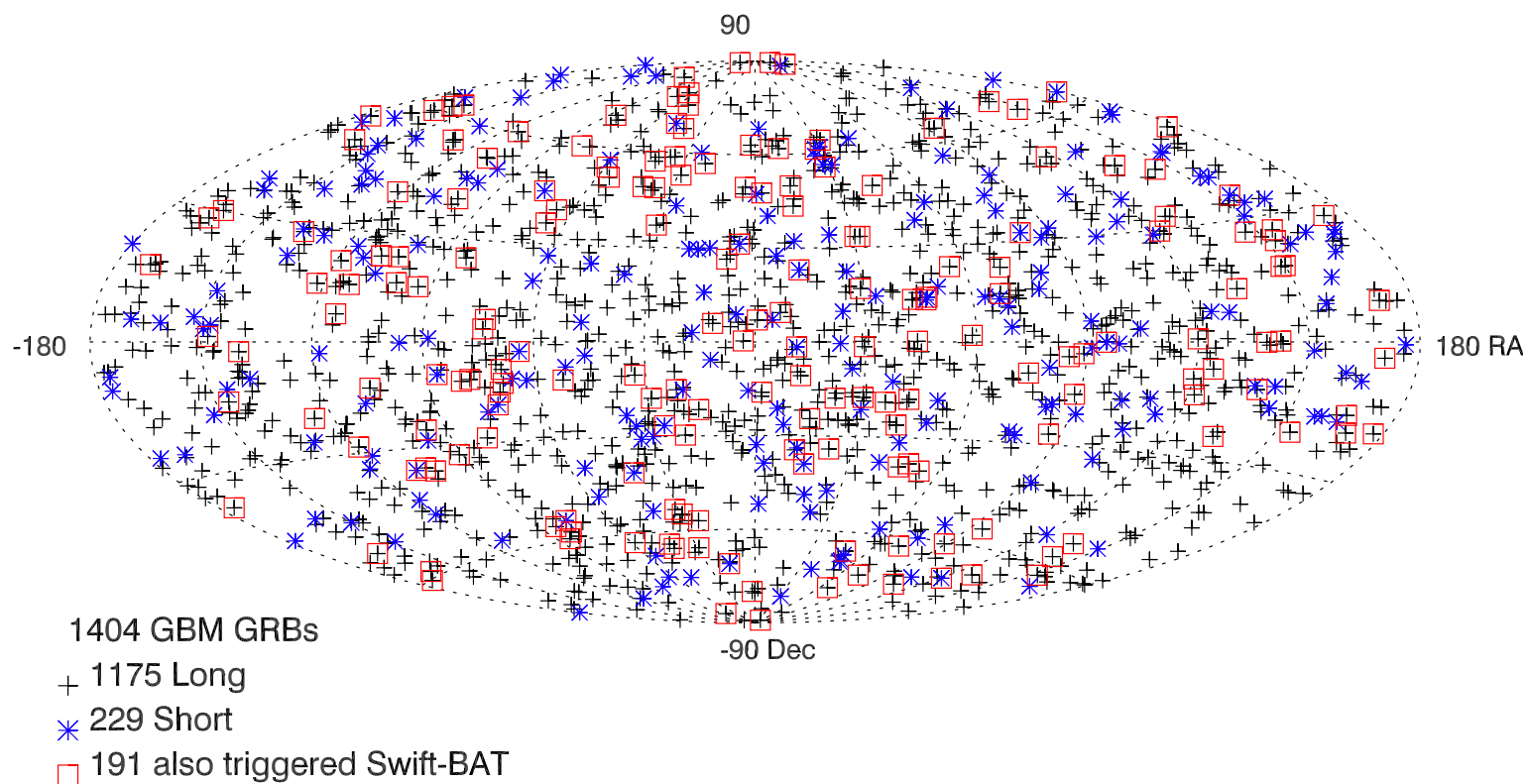


Fig. 4.— Sky distribution of GBM triggered GRBs in celestial coordinates. Crosses indicate long GRBs ( $T_{90} > 2$  s); asterisks indicate short GRBs. Also shown are the GBM GRBs simultaneously detected by Swift (red squares)

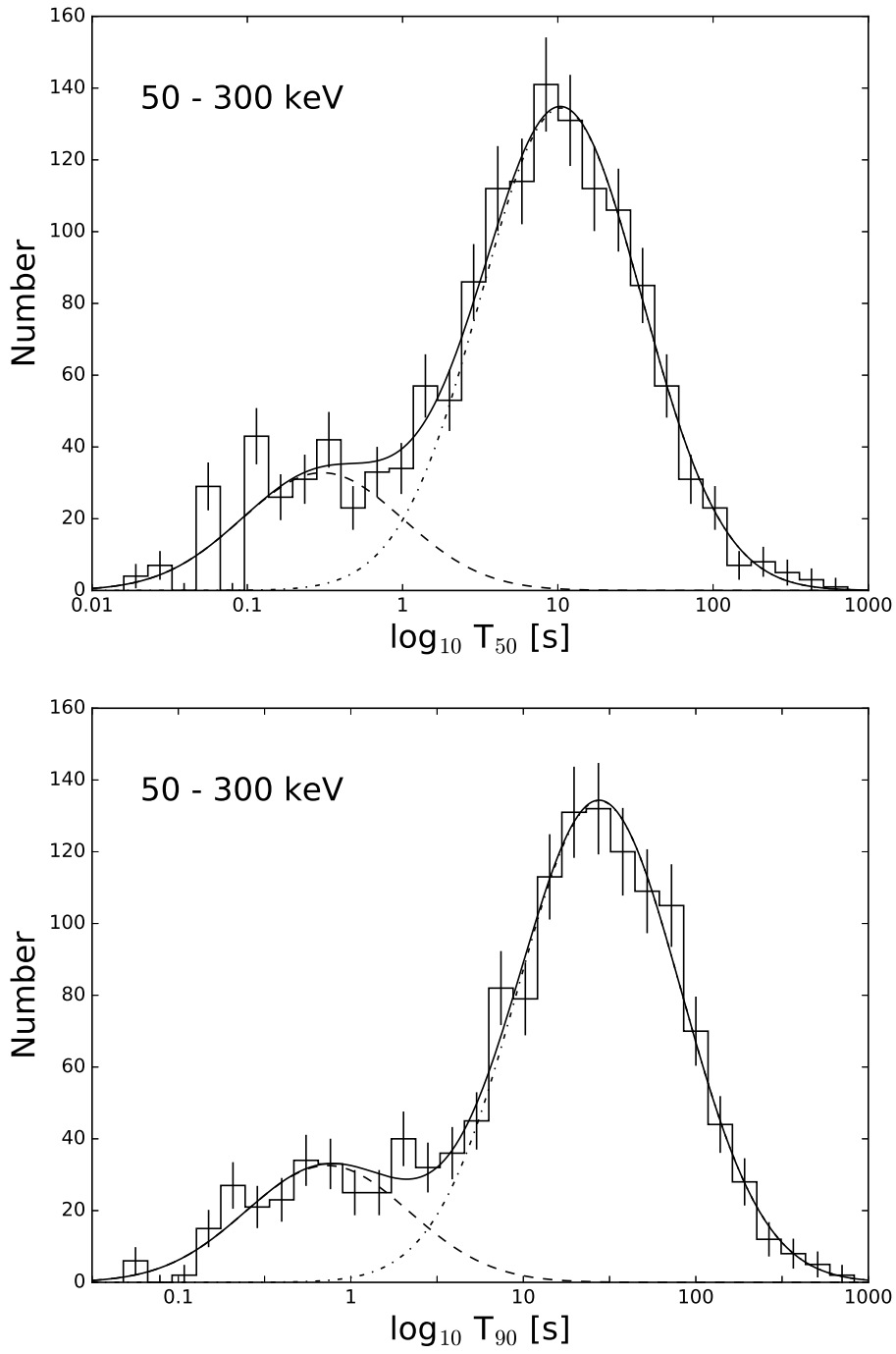


Fig. 5.— Distribution of GRB durations in the 50–300 keV energy range. The upper plot shows  $T_{50}$  and the lower plot shows  $T_{90}$ . Also shown are the lognormal fits separately to long and short GRBs (see text for details).

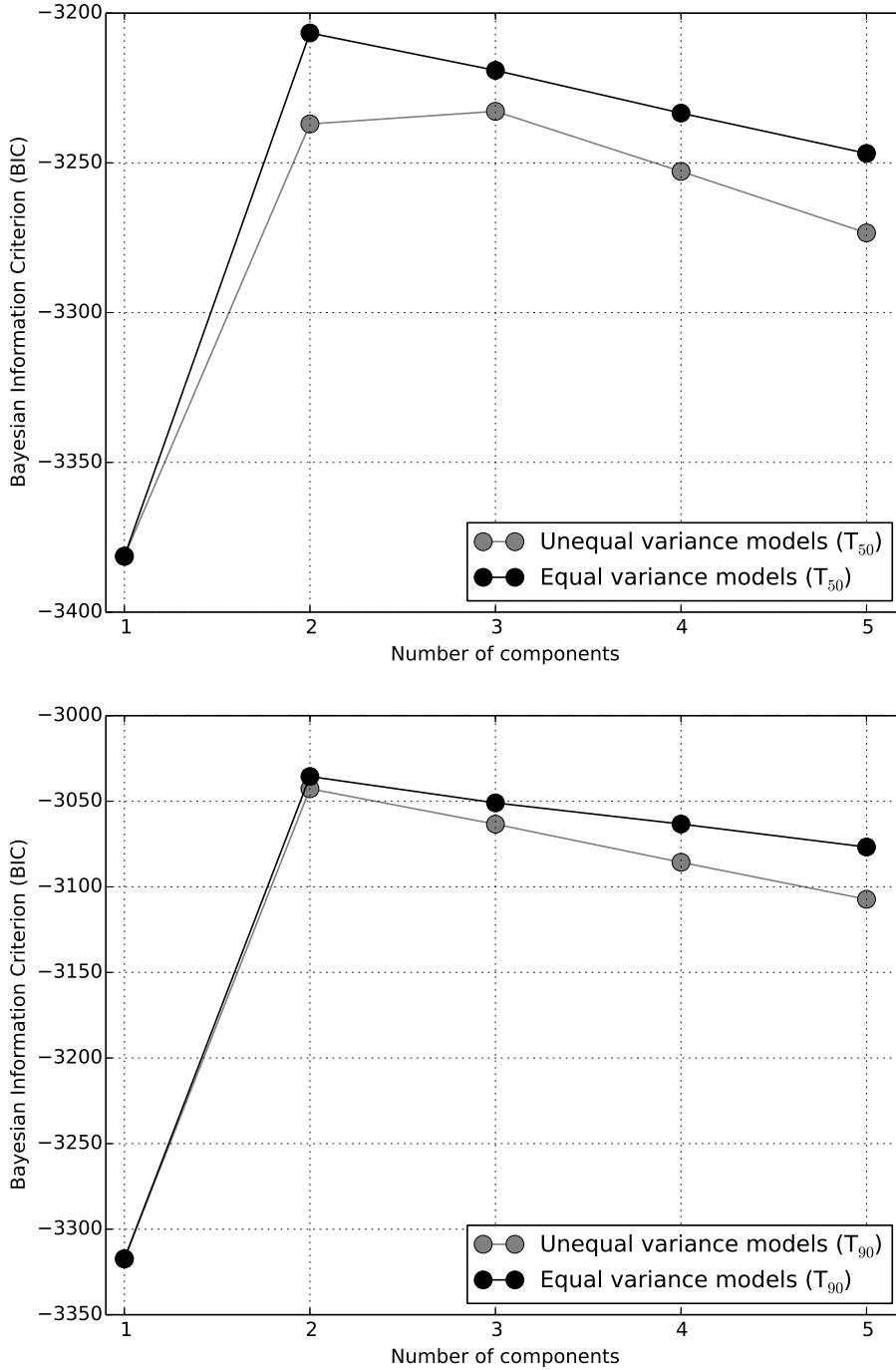


Fig. 6.— Figure showing the BIC values to establish the number of components that best describe the GRB duration distributions. In the unequal variance model all parameters are left to vary, while in the equal variance case, the variances of the components are restricted to be equal among the components. The upper plot corresponds to  $T_{50}$  and the lower plot corresponds to  $T_{90}$  distributions. The peak at the number of components = 2 shows that the observed GRB duration distribution is best described by a 2 component model as shown in figure 5.

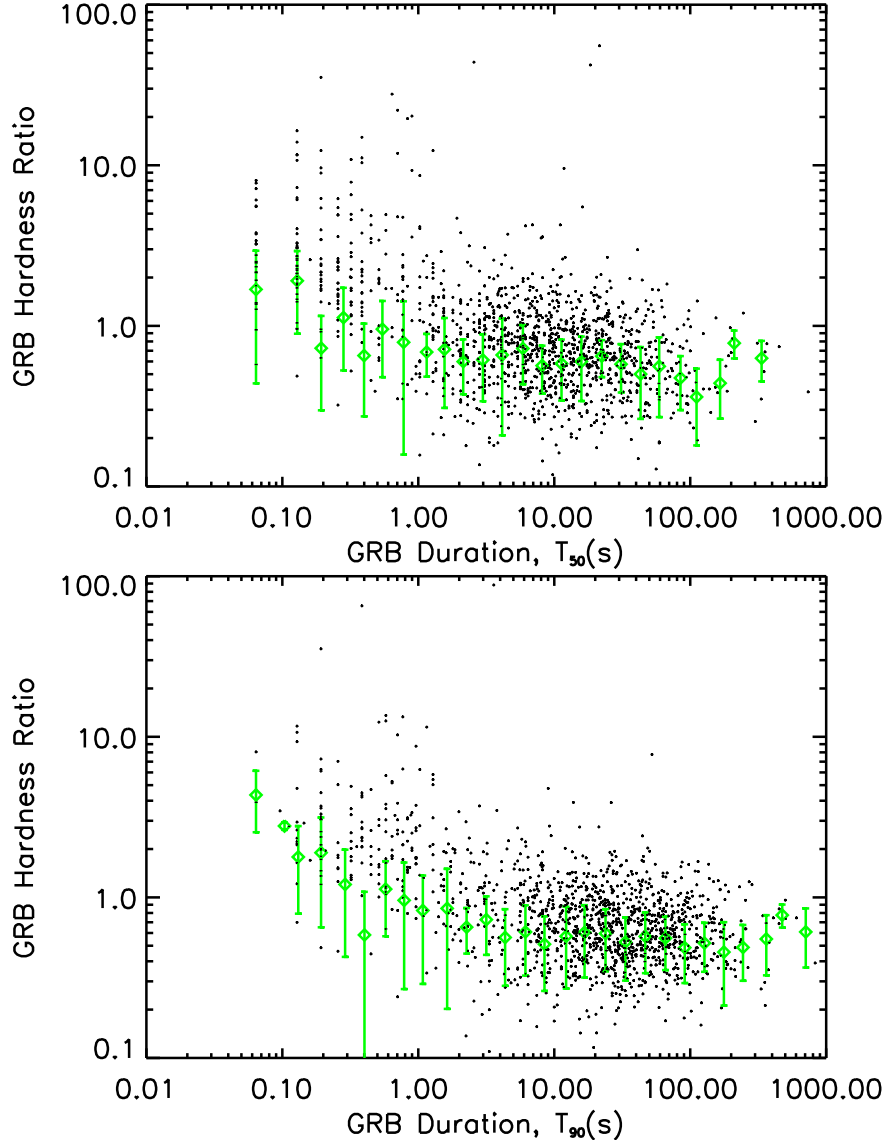


Fig. 7.— Logarithmic scatter plots of spectral hardness vs. duration are shown for the two duration measures  $T_{50}$  (upper plot) and  $T_{90}$  (lower plot). The spectral hardness was computed from the duration analysis results by summing the deconvolved counts in each detector and time bin in two energy bands (10 – 50 keV and 50 – 300 keV), and further summing each quantity in time over the  $T_{50}$  and  $T_{90}$  intervals. The hardness ratio was calculated separately for each detector as the ratio of the flux density and finally averaged over detectors. The error bars for individual bursts are suppressed for clarity. 1376  $T_{90}$  hardness ratios and 1364  $T_{50}$  hardness ratios out of a total sample of 1403 GRBs have been estimated and plotted here. The rest are too weak to compute hardness ratios and hence ignored. The short and long GRBs were further divided in to equal logarithmic duration sub-groups. The green points with errors are the average values of hardness ratios weighted with inverse of their errors over GRBs that fall under each group. The anti-correlation of spectral hardness with burst duration is evident.

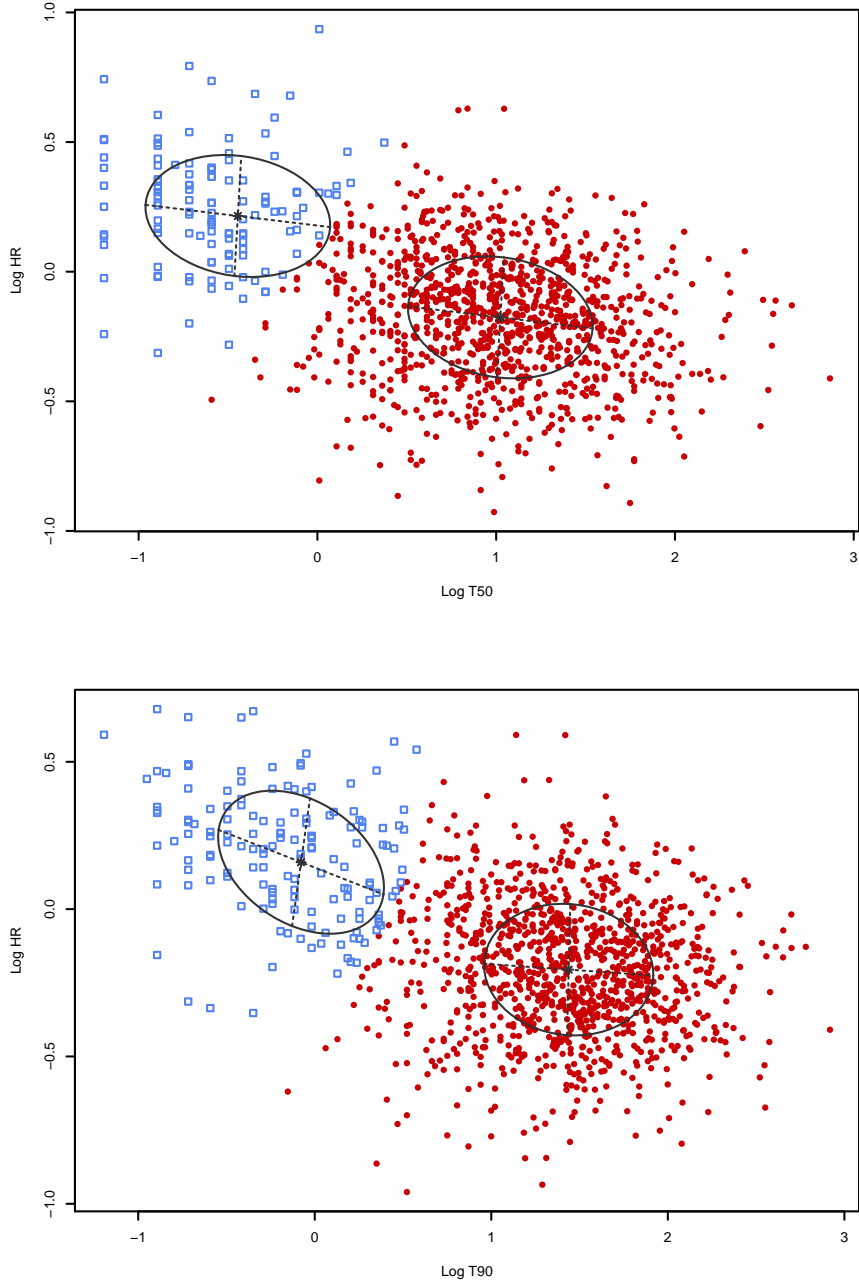


Fig. 8.— Classification based on the hardness-duration diagram. Here we show only GRBs with hardness errors less than the hardness itself. Colors indicate their group membership (red: on average short/hard, blue: on average long/soft). Ellipses show the best fitting multivariate gaussian models. In the T90-HR case (bottom) the best model has components with equal volume and shape (the major and minor axes of the ellipses are equal) but their orientation is not constrained. For T50-HR (top) the best model has similar properties as for T90-HR, only the orientation of the components is constrained to be the same (see Figure 9 for BIC values of different models).

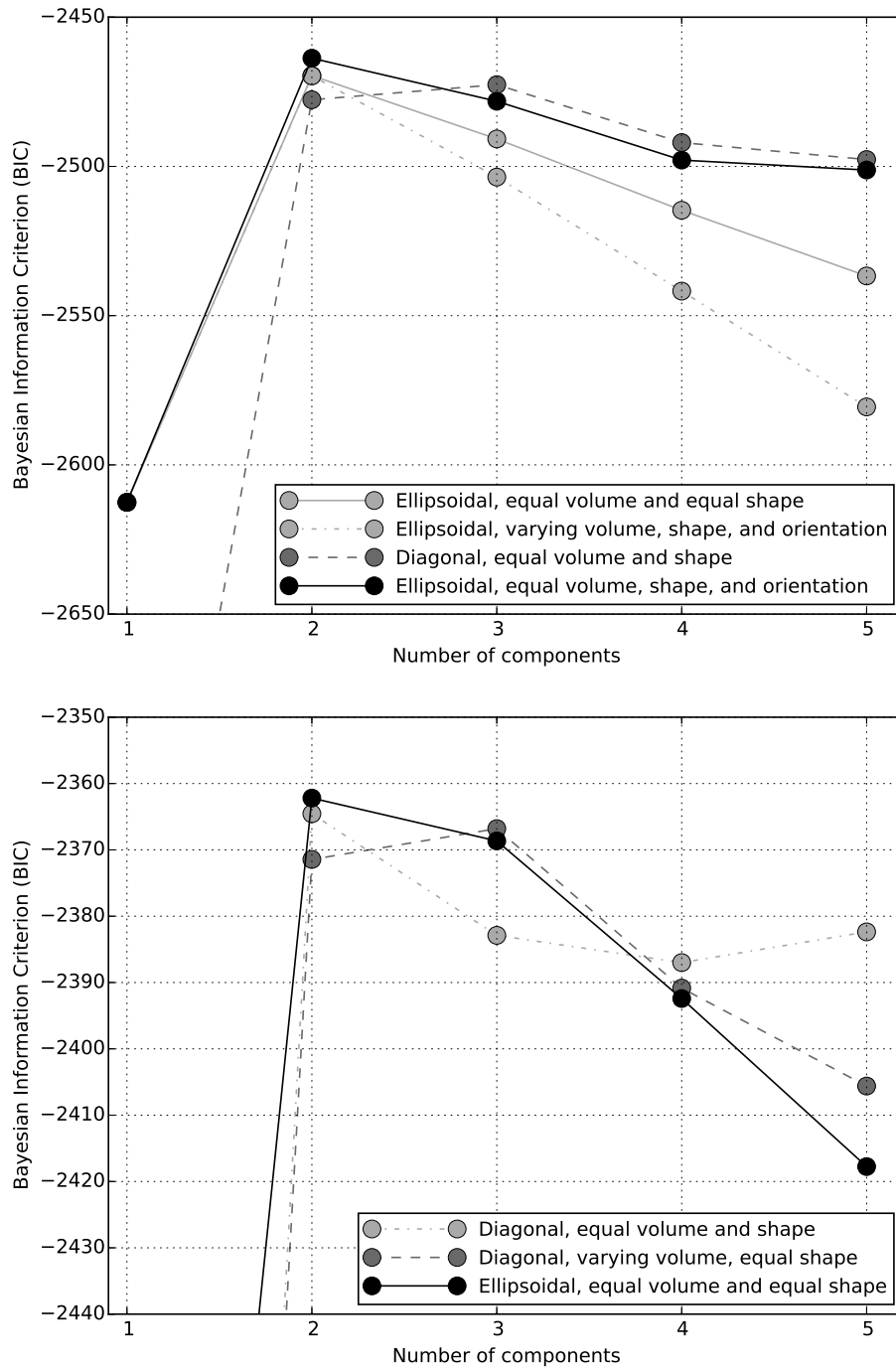


Fig. 9.— BIC values for the hardness-duration data [T90-HR (bottom) and T50-HR (top)] for the relevant bi-variate normal component models. For clarity, we only show the best faring models. See Figure 8 for the realization of the best models.

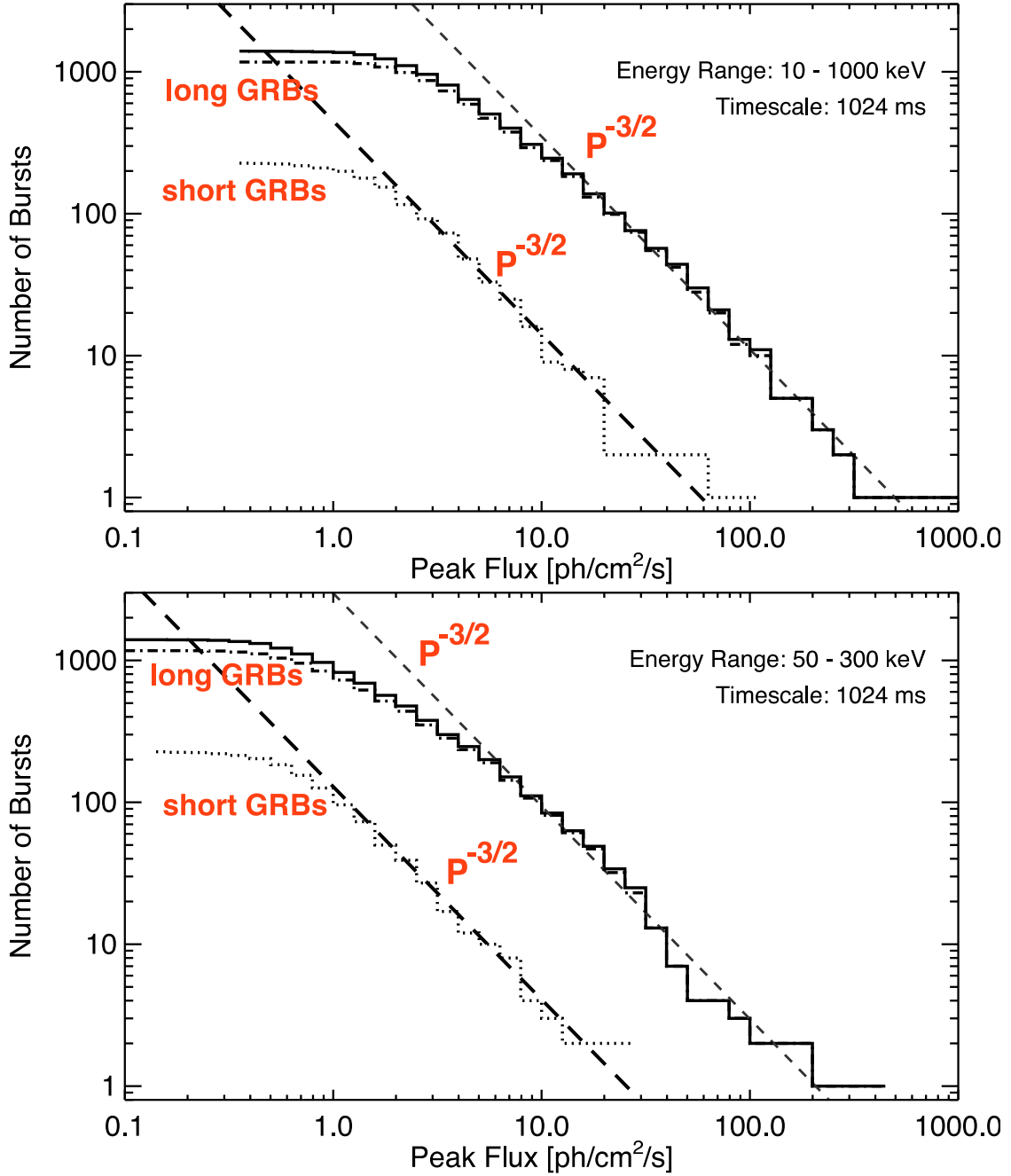


Fig. 10.— Integral distribution of GRB peak flux on the 1.024 s timescale. Energy ranges are 10 – 1000 keV (upper plot) and 50 – 300 keV (lower plot). Distributions are shown for the total sample (solid histogram), short GRBs (dots) and long GRBs (dash-dots), using  $T_{90} = 2$  s as the distinguishing criterion. In each plot a power law with a slope of  $-3/2$  (dashed line) is drawn to guide the eye.

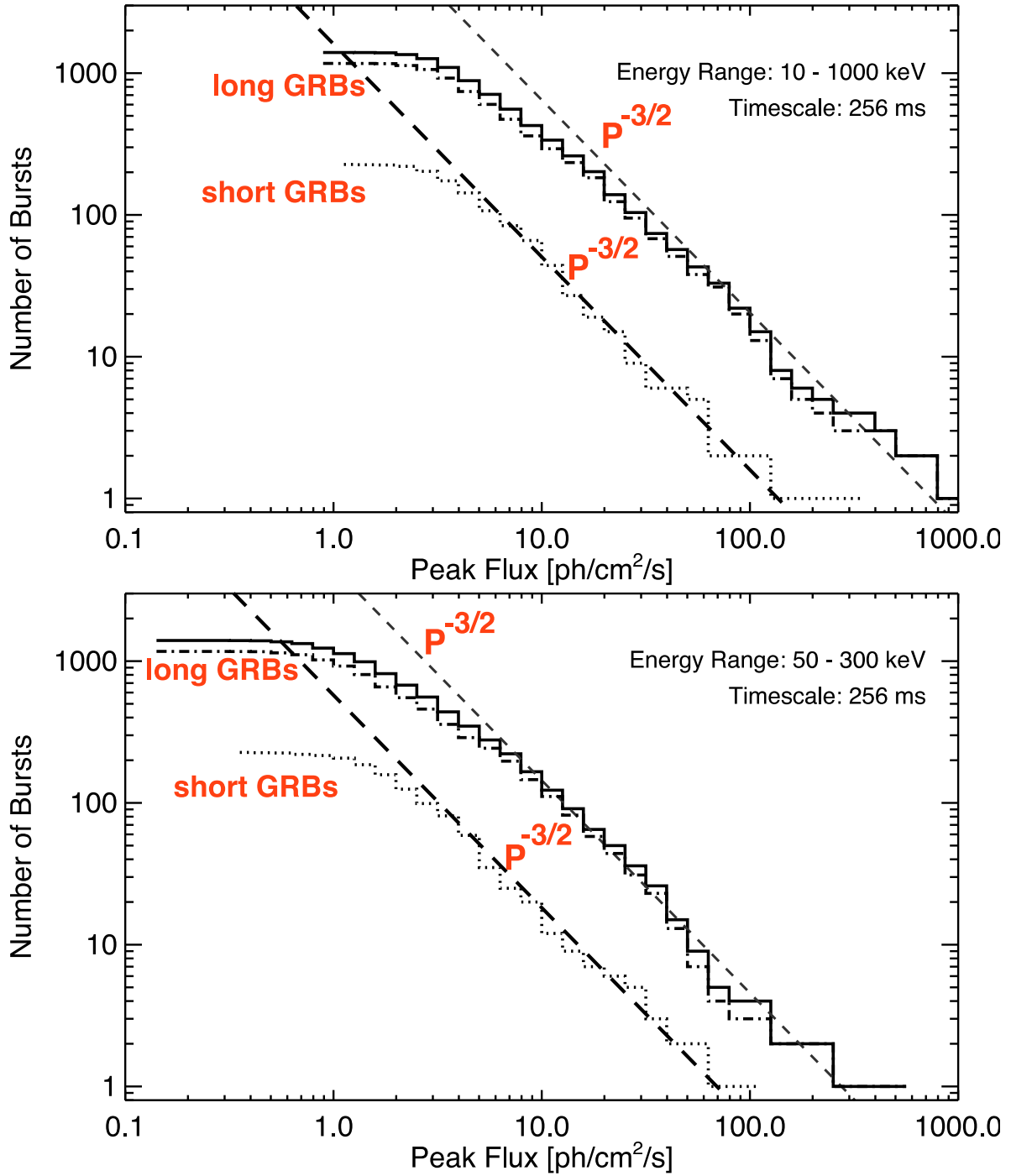


Fig. 11.— Same as Figure 10, except on the 0.256 s timescale.



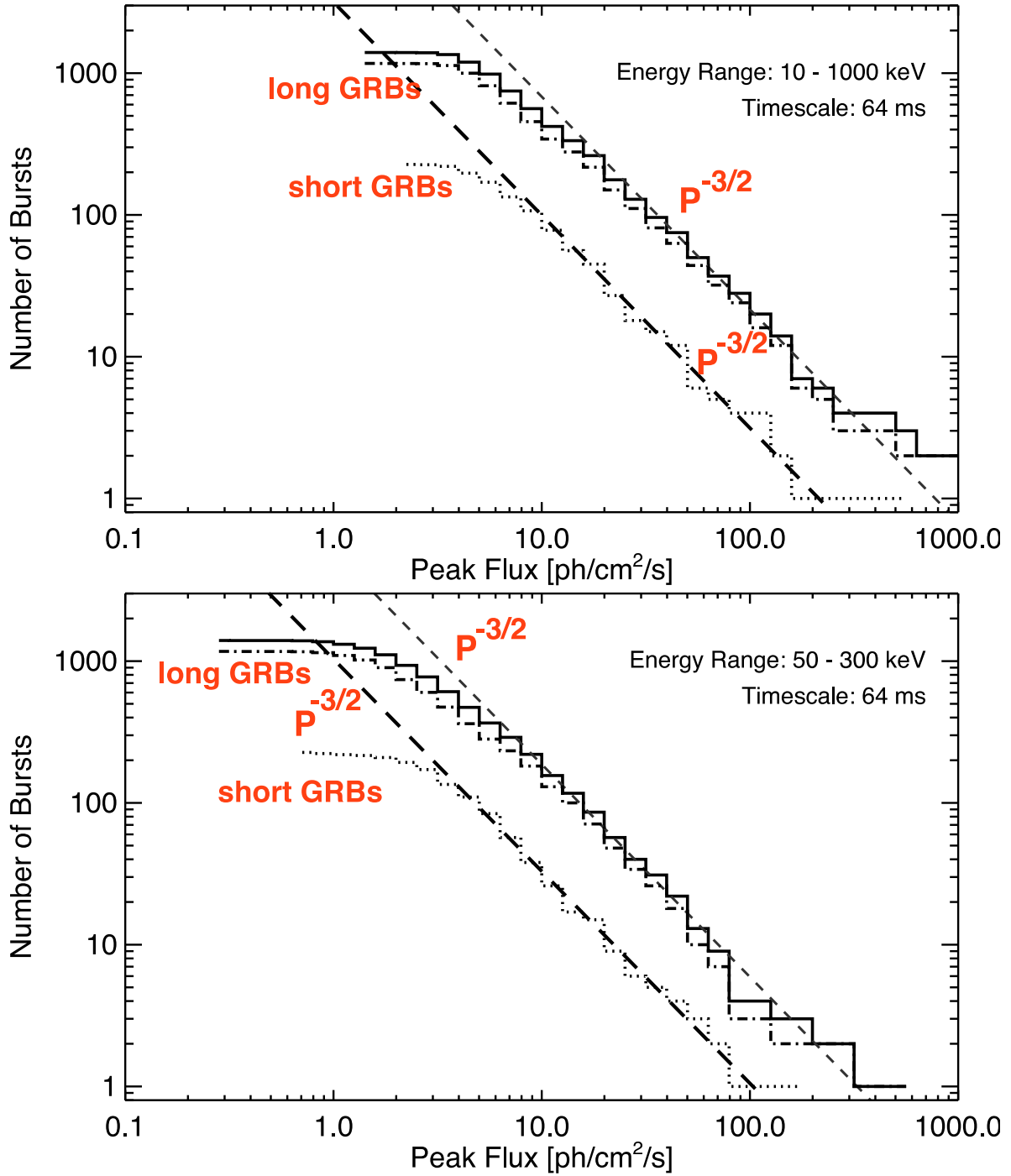


Fig. 12.— Same as Figure 10, except on the 0.064 s timescale.

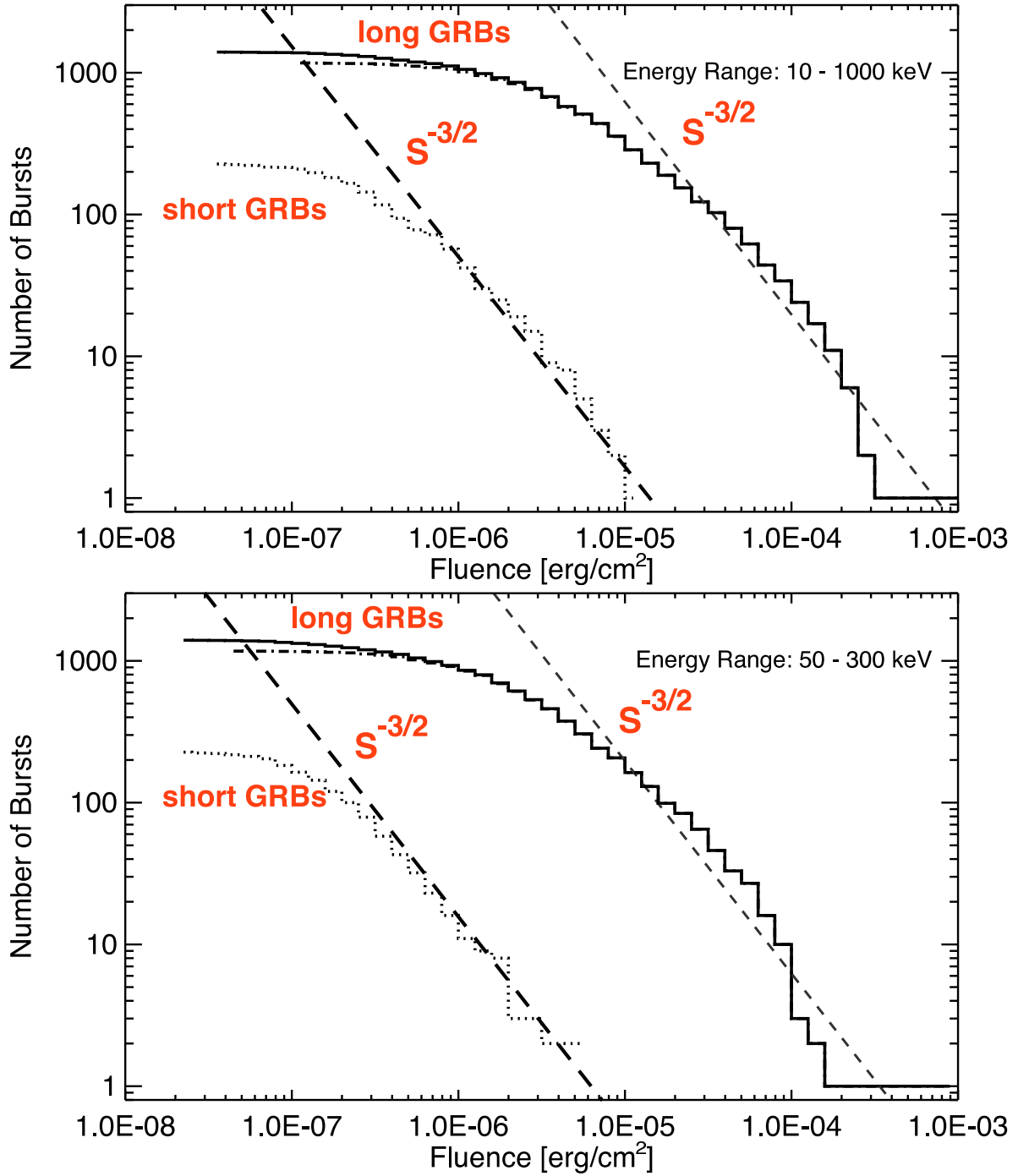


Fig. 13.— Integral distribution of GRB fluence ( $S$  ergs/cm<sup>2</sup>) in two energy ranges: 10–1000 keV (upper plot) and 50–300 keV (lower plot). Distributions are shown for the total sample (solid histogram), short GRBs (dots) and long GRBs (dash-dots), using  $T_{90} = 2$  s as the distinguishing criterion. In each plot a power law with a slope of  $-3/2$  (dashed line) is drawn to guide the eye.

Table 1: Trigger statistics of the year 1 & 2 and year 3 & 4 catalogs

	GRBs	SGRs	TGFs	SFs	CPs	Other	Sum	ARRs	LAT GRBs
Year 1 & 2	492 <sup>a</sup>	171	79	31	68 <sup>b</sup>	65 <sup>b</sup>	906 <sup>c</sup>	40	22
Year 3 & 4	462	18	183	363	141	53	1220	46	21 <sup>d</sup>
Year 5 & 6	451 <sup>a</sup>	9	207	400	96	61	1224	33	29 <sup>d</sup>
Year 1 to 6	1405	198	469	794	305	179	3350	119 <sup>e</sup>	72

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<sup>a</sup>GRB 091024A and GRB130925A each of which triggered GBM twice, are counted twice. Hence the total number of GRB's is one less in each group.

<sup>b</sup>The numbers of non GRB triggers in year 1 & 2 differ from the numbers cited in Paciesas et al. (2012), since some of the triggers were reclassified

<sup>c</sup>The total numbers of triggers is two less compared to Paciesas et al. (2012), since the two commanded triggers (bn100709294 & bn100711145) were not counted.

<sup>d</sup>The three year *Fermi* LAT GRB catalog (Ackermann et al. 2013) includes bursts only from August 2008 to August 2011 (Year 1 & 2: 22 GRBs, Year 3 & 4: 13 GRBs). The 29 additional GRB detections from year 5 & 6, are listed in the public GRB list of the *Fermi* LAT team: [http://fermi.gsfc.nasa.gov/ssc/observations/types/grbs/lat\\_grbs/](http://fermi.gsfc.nasa.gov/ssc/observations/types/grbs/lat_grbs/)

<sup>e</sup>Due to misclassification of events as GRBs by the FSW, 26 of the ARR's occurred for other event types. Of these 16 occurred due to charged particle events, 5 occurred due to SGR events, 4 occurred due to solar flare events and 1 due to a TGF event. In addition, there were a few positive ARR's from GBM triggers followed by no spacecraft slews, which was disabled at the spacecraft level at that time. In a few cases the spacecraft slew started well after the GBM trigger due to Earth's limb constraint.

Table 2. Trigger Criteria History

Algorithm	Timescale	Offset	Channels	Energy	Threshold ( $0.1\sigma$ ) <sup>a</sup>							
Number	(ms)	(ms)		(keV)	July 11	2008 July 14	Aug 1	May 8	2009 Oct 29	Nov 10	Dec 7	2010 Mar 26
1	16	0	3-4	50-300	75	24	24	24	24	24	24	24
2	32	0	3-4	50-300	75	24	24	24	24	24	24	24
3	32	16	3-4	50-300	75	24	24	24	24	24	24	24
4	64	0	3-4	50-300	45	24	50	24	24	24	24	24
5	64	32	3-4	50-300	45	24	50	24	24	24	24	24
6	128	0	3-4	50-300	45	24	48	50	24	24	24	24
7	128	64	3-4	50-300	45	24	48	50	24	24	24	24
8	256	0	3-4	50-300	45	24	24	24	24	24	24	24
9	256	128	3-4	50-300	45	24	24	24	24	24	24	24
10	512	0	3-4	50-300	45	24	24	24	24	24	24	24
11	512	256	3-4	50-300	45	24	24	24	24	24	24	24
12	1024	0	3-4	50-300	45	24	24	24	24	24	24	24
13	1024	512	3-4	50-300	45	24	24	24	24	24	24	24
14	2048	0	3-4	50-300	45	24	24	24	24	24	24	24
15	2048	1024	3-4	50-300	45	24	24	24	24	24	24	24
16	4096	0	3-4	50-300	45	24	24	24	24	24	24	24
17	4096	2048	3-4	50-300	45	24	24	24	24	24	24	24
18	8192	0	3-4	50-300	C	50	24	24	D	24	24	24
19	8192	4096	3-4	50-300	C	50	24	24	D	24	24	24
20	16384	0	3-4	50-300	C	50	D	24	24	24	24	24
21	16384	8192	3-4	50-300	C	50	D	24	24	24	24	24
22	16	0	2-2	25-50	D	80	24	24	24	24	24	24
23	32	0	2-2	25-50	D	80	24	24	24	24	24	24
24	32	16	2-2	25-50	D	80	24	24	24	24	24	24
25	64	0	2-2	25-50	D	55	24	24	24	24	24	24
26	64	32	2-2	25-50	D	55	24	24	24	24	24	24

Table 2—Continued

Algorithm	Timescale	Offset	Channels	Energy	Threshold ( $0.1\sigma$ ) <sup>a</sup>							
					Number	(ms)	(ms)	(keV)	July 11	2008 July 14	Aug 1	May 8
27	128	0	2–2	25–50	D	55	24	24	D	24	24	24
28	128	64	2–2	25–50	D	55	24	24	D	24	24	24
29	256	0	2–2	25–50	D	55	24	24	D	24	24	24
30	256	128	2–2	25–50	D	55	24	24	D	24	24	24
31	512	0	2–2	25–50	D	55	24	24	D	24	24	24
32	512	256	2–2	25–50	D	55	24	24	D	24	24	24
33	1024	0	2–2	25–50	D	55	24	24	D	24	24	24
34	1024	512	2–2	25–50	D	55	24	24	D	24	24	24
35	2048	0	2–2	25–50	D	55	24	24	D	24	24	24
36	2048	1024	2–2	25–50	D	55	24	24	D	24	24	24
37	4096	0	2–2	25–50	D	65	24	24	D	24	24	24
38	4096	2048	2–2	25–50	D	65	24	24	D	24	24	24
39	8192	0	2–2	25–50	D	65	24	24	D	24	24	24
40	8192	4096	2–2	25–50	D	65	24	24	D	24	24	24
41	16384	0	2–2	25–50	D	65	D	24	24	24	24	24
42	16384	8192	2–2	25–50	D	65	D	24	24	24	24	24
43	16	0	5–7	> 300	D	80	24	24	24	24	24	24
44	32	0	5–7	> 300	D	80	24	24	D	24	24	24
45	32	16	5–7	> 300	D	80	24	24	D	24	24	24
46	64	0	5–7	> 300	D	55	24	60	D	24	24	24
47	64	32	5–7	> 300	D	55	24	60	D	24	24	24
48	128	0	5–7	> 300	D	55	24	24	D	24	24	24
49	128	64	5–7	> 300	D	55	24	24	D	24	24	24
50	16	0	4–7	> 100	D	80	24	24	24	24	24	24
51	32	0	4–7	> 100	D	80	24	24	D	24	24	24
52	32	16	4–7	> 100	D	80	24	24	D	24	24	24

Table 2—Continued

Algorithm	Timescale	Offset	Channels	Energy	Threshold ( $0.1\sigma$ ) <sup>a</sup>							
					July 11	2008 July 14	Aug 1	May 8	2009 Oct 29    Nov 10		Dec 7	2010 Mar 26
53	64	0	4–7	> 100	D	55	24	24	D	24	24	24
54	64	32	4–7	> 100	D	55	24	24	D	24	24	24
55	128	0	4–7	> 100	D	55	24	24	D	24	24	24
56	128	64	4–7	> 100	D	55	24	24	D	24	24	24
57	256	0	4–7	> 100	D	55	24	24	D	24	24	24
58	256	128	4–7	> 100	D	55	24	24	D	24	24	24
59	512	0	4–7	> 100	D	55	24	24	D	24	24	24
60	512	256	4–7	> 100	D	55	24	24	D	24	24	24
61	1024	0	4–7	> 100	D	55	24	24	D	24	24	24
62	1024	512	4–7	> 100	D	55	24	24	D	24	24	24
63	2048	0	4–7	> 100	D	55	24	24	D	24	24	24
64	2048	1024	4–7	> 100	D	55	24	24	D	24	24	24
65	4096	0	4–7	> 100	D	65	24	24	D	24	24	24
66	4096	2048	4–7	> 100	D	65	24	24	D	24	24	24
116 <sup>b</sup>	16	0	5–7 BGO/3–6	> 300 2 - 40 MeV	D	:	:	:	:	60	55	:
117 <sup>b</sup>	16	0	5–7 BGO/3–6	> 300 2 - 40 MeV	D	:	:	:	:	55	45	:
118 <sup>b</sup>	16	0	5–7 BGO/3–6	> 300 2 - 40 MeV	D	:	:	:	:	55	45	:
119 <sup>b</sup>	16	0	BGO/3–6	2 - 40 MeV	D	:	:	:	:	55	45	47

<sup>a</sup>Symbol ':' indicates no change from previous setting; 'C' indicates that the algorithm is in compute mode (see text); 'D' indicates that the algorithm is disabled.

<sup>b</sup>Trigger algorithms using the BGO detector count rates. Algorithm 116 triggers off when at least two NaI and one BGO detectors are exceeding the trigger threshold. Algorithms 117 is same as 116, but impose the additional requirement that the triggered detectors are on the +X side of the spacecraft. Algorithm 118 is the same as 117, but requiring the triggered detectors to be on the -X side of the spacecraft. Algorithm 119 requires a significant rate increase in both BGO detectors.

Table 3: Trigger algorithm statistics

Algorithm	Time ms	Energy keV	GRBs	SGRs	TGFs	SFs	CPs	Other	Comment <sup>a</sup>
1 - 5	16 -64	50 - 300	235	73	8	6	9	17	GRB
6 - 11	128 - 512	50 - 300	509	8	-	41	12	37	GRB
12 - 17	1024 - 4096	50 - 300	639	1	-	167	230	30	GRB
18 - 21	8192 - 16384	50 - 300	3	-	-	-	-	-	D
22 - 26	16 -64	25 - 50	7	113	-	577	11	7	SF
27 - 32	128 - 512	25 - 50	2	3	-	1	2	-	D
33 - 38	1024 - 4096	25 - 50	8	-	-	2	11	3	D
39 - 42	8192 - 16384	25 - 50	1	-	-	-	8	3	D
43	16	> 300	-	-	43	-	1	1	TGF
44 - 49	32 - 128	> 300	-	-	-	-	-	5	D
50	16	> 100	-	-	9	-	4	-	TGF
51 - 66	32 - 4096	> 100	1	-	-	-	-	-	D
116 - 119	16	BGO	-	-	409	-	16	76	TGF

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<sup>a</sup>'GRB', 'SF' and 'TGF' indicate the source classes that are most likely to trigger the corresponding algorithm; 'D' indicates that the algorithm was finally disabled at the end of year 4.



Table 4. Trigger Modification History

Date	Year/DOY/UT	Operation
7/1/12	2012/183:22:14:20	Elevate LLT thresholds to 101 for dets. NaI0 - 5
	2012/183:22:14:32	Disable triggers
	2012/184:01:39:24	Enable triggers
7/2/12	2012/184:01:39:44	Restore LLT thresholds to 24 for dets. NaI0 - 5
7/11/12	2012/193:18:11:31	LLTs set to 59 for dets. NaI0-5
8/3/12	2012/216:18:57:10	Disable soft trigger algs. 22-26
	2012/216:18:57:15	McIlwain = 1.58
8/6/12	2012/219:13:30:05	Restore LLT thresholds to 24 for dets. NaI0 - 5
	2012/219:13:30:10	Re-enable soft trigger algs. 22-26
8/7/12	2012/220:16:01:37	LLTs set to 59 for dets. NaI0-5
8/11/12	2012/223:01:40:20	Elevate LLT thresholds to 101 for dets. NaI0 - 5
	2012/223:01:40:32	Disable triggers
	2012/223:05:04:00	Enable triggers
	2012/223:05:04:20	Restore LLT thresholds to 24 for dets. NaI0 - 5
	2012/223:16:22:00	LLTs set to 59 for dets. NaI0-5
	2012/223:16:22:05	Disable soft trigger algs. 22-26
8/12/12	2012/225:23:44:20	Elevate LLT thresholds to 101 for dets. NaI0 - 5
	2012/225:23:44:32	Disable triggers
8/13/12	2012/226:03:08:05	Enable triggers
	2012/226:03:08:25	LLTs set to 59 for dets. NaI0-5
	2012/226:14:17:00	Restore LLT thresholds to 24 for dets. NaI0 - 5
	2012/226:14:17:05	Re-enable soft trigger algs. 22-26
8/14/12	2012/227:23:30:20	Elevate LLT thresholds to 101 for dets. NaI0 - 5
	2012/227:23:30:32	Disable triggers
8/15/12	2012/228:02:54:00	Enable triggers
	2012/228:02:54:10	Restore LLT thresholds to 24 for dets. NaI0 - 5
8/17/12	2012/230:21:34:20	Elevate LLT thresholds to 101 for dets. NaI0 - 5
	2012/230:21:34:32	Disable triggers
8/18/12	2012/231:00:57:50	LLTs set to 59 for dets. NaI0-5
	2012/231:00:57:55	Disable soft trigger algs. 22-26
	2012/231:00:58:25	Enable triggers
8/22/12	2012/235:19:22:20	Elevate LLT thresholds to 101 for dets. NaI0 - 5
	2012/235:19:22:32	Disable triggers
	2012/235:22:45:50	Restore LLT thresholds to 24 for dets. NaI0 - 5
	2012/235:22:45:52	Re-enable soft trigger algs. 22-26
	2012/235:22:46:15	Enable triggers
8/24/12	2012/237:19:56:35	LLTs set to 59 for dets. NaI0-5
	2012/237:19:56:40	Disable soft trigger algs. 22-26

Table 4—Continued

Date	Year/DOY/UT	Operation
8/27/12	2012/240:17:08:01	Elevate LLT thresholds to 101 for dets. NaI0 - 5
	2012/240:17:08:13	Disable triggers
	2012/240:20:41:05	Restore LLT thresholds to 24 for dets. NaI0 - 5
	2012/240:20:41:10	Re-enable soft trigger algs. 22-26
	2012/240:20:41:35	Enable triggers
8/31/12	2012/244:20:34:50	LLTs set to 59 for dets. NaI0-5
	2012/244:20:34:55	Disable soft trigger algs. 22-26
9/4/12	2012/248:15:06:50	Restore LLT thresholds to 24 for dets. NaI0 - 5
	2012/248:15:06:55	Re-enable soft trigger algs. 22-26
9/7/12	2012/251:19:41:40	LLTs set to 59 for dets. NaI0-5
	2012/251:19:41:45	Disable soft trigger algs. 22-26
9/10/12	2012/254:15:53:40	Restore LLT thresholds to 24 for dets. NaI0 - 5
	2012/254:15:53:45	Re-enable soft trigger algs. 22-26
9/14/12	2012/258:22:09:48	LLTs set to 59 for dets. NaI0-5
	2012/258:22:09:53	Disable soft trigger algs. 22-26
9/17/12	2012/261:16:42:48	Restore LLT thresholds to 24 for dets. NaI0 - 5
	2012/261:16:42:53	Re-enable soft trigger algs. 22-26
9/21/12	2012/265:17:51:05	LLTs set to 59 for dets. NaI0-5
	2012/265:17:51:10	Disable soft trigger algs. 22-26
9/24/12	2012/268:15:47:26	Restore LLT thresholds to 24 for dets. NaI0 - 5
	2012/268:15:47:31	Re-enable soft trigger algs. 22-26
9/28/12	2012/272:15:16:05	LLTs set to 59 for dets. NaI0-5
	2012/272:15:16:10	Disable soft trigger algs. 22-26
10/1/12	2012/275:22:33:20	Elevate LLT thresholds to 101 for dets. NaI0 - 5
	2012/275:22:33:32	Disable triggers
10/2/12	2012/276:01:57:20	Restore LLT thresholds to 24 for dets. NaI0 - 5
	2012/276:01:57:25	Re-enable soft trigger algs. 22-26
	2012/276:01:58:20	Enable triggers
10/5/12	2012/279:20:29:20	Elevate LLT thresholds to 101 for dets. NaI0 - 5
	2012/279:20:29:32	Disable triggers
	2012/279:23:52:43	LLTs set to 59 for dets. NaI0-5
	2012/279:23:52:48	Disable soft trigger algs. 22-26
	2012/279:23:53:50	Enable triggers
10/9/12	2012/283:18:22:20	Elevate LLT thresholds to 101 for dets. NaI0 - 5
	2012/283:18:22:32	Disable triggers
	2012/283:21:49:10	Restore LLT thresholds to 24 for dets. NaI0 - 5
	2012/283:21:49:15	Re-enable soft trigger algs. 22-26
	2012/283:21:49:50	Enable triggers

Table 4—Continued

Date	Year/DOY/UT	Operation
10/12/12	2012/286:20:26:05	LLTs set to 59 for dets. NaI0-5
	2012/286:20:26:10	Disable soft trigger algs. 22-26
10/15/12	2012/289:16:45:05	Restore LLT thresholds to 24 for dets. NaI0 - 5
	2012/289:16:45:10	Re-enable soft trigger algs. 22-26
	2012/293:19:25:50	LLTs set to 59 for dets. NaI0-5
	2012/293:19:25:55	Disable soft trigger algs. 22-26
10/19/12	2012/296:15:42:50	Restore LLT thresholds to 24 for dets. NaI0 - 5
	2012/296:15:42:55	Re-enable soft trigger algs. 22-26
	2012/296:17:09:45	LLTs set to 59 for dets. NaI0-5
	2012/296:17:12:06	Disable soft trigger algs. 22-26
10/26/12	2012/300:20:13:45	LLTs set to 59 for dets. NaI0-5
	2012/300:20:13:50	Disable soft trigger algs. 22-26
10/29/12	2012/303:14:43:45	Restore LLT thresholds to 24 for dets. NaI0 - 5
	2012/303:14:43:50	Re-enable soft trigger algs. 22-26
11/2/12	2012/307:19:17:45	LLTs set to 59 for dets. NaI0-5
	2012/307:19:17:50	Disable soft trigger algs. 22-26
11/5/12	2012/310:15:31:45	Restore LLT thresholds to 24 for dets. NaI0 - 5
	2012/310:15:31:50	Re-enable soft trigger algs. 22-26
11/9/12	2012/314:16:40:45	LLTs set to 59 for dets. NaI0-5
	2012/314:16:40:50	Disable soft trigger algs. 22-26
	2012/318:14:27:12	Restore LLT thresholds to 24 for dets. NaI0 - 5
	2012/318:14:27:17	Re-enable soft trigger algs. 22-26
	2012/318:22:58:30	LLTs set to 59 for dets. NaI0-5
	2012/318:23:00:49	Disable soft trigger algs. 22-26
11/16/12	2012/321:14:03:13	LLTs set to 59 for dets. NaI0-5
	2012/321:14:03:18	Disable soft trigger algs. 22-26
11/19/12	2012/324:22:27:42	Restore LLT thresholds to 24 for dets. NaI0 - 5
	2012/324:22:27:47	Re-enable soft trigger algs. 22-26
11/22/12	2012/327:01:24:05	LLTs set to 59 for dets. NaI0-5
	2012/327:01:24:10	Disable soft trigger algs. 22-26
11/26/12	2012/331:14:01:20	upload startup table for fsw 2.7
	2012/331:15:21:57	boot fsw 2.7
	2012/331:19:47:45	Restore LLT thresholds to 24 for dets. NaI0 - 5
	2012/331:19:47:50	Re-enable soft trigger algs. 22-26
1/18/13	2013/018:21:07:40	Disable soft trigger algs. 22-26
1/21/13	2013/021:14:08:40	Re-enable soft trigger algs. 22-26
1/25/13	2013/025:21:54:40	Disable soft trigger algs. 22-26
1/28/13	2013/028:16:23:40	Re-enable soft trigger algs. 22-26

Table 4—Continued

Date	Year/DOY/UT	Operation
2/1/13	2013/032:20:56:40	Disable soft trigger algs. 22-26
2/4/13	2013/035:13:45:40	Re-enable soft trigger algs. 22-26
2/8/13	2013/039:18:17:40	Disable soft trigger algs. 22-26
2/11/13	2013/042:16:11:40	Re-enable soft trigger algs. 22-26
2/15/13	2013/046:13:57:40	Disable soft trigger algs. 22-26
2/19/13	2013/050:11:43:40	Re-enable soft trigger algs. 22-26
2/22/13	2013/053:21:47:40	Disable soft trigger algs. 22-26
2/25/13	2013/056:19:42:40	Re-enable soft trigger algs. 22-26
3/1/13	2013/060:20:43:40	Disable soft trigger algs. 22-26
3/4/13	2013/063:17:01:40	Re-enable soft trigger algs. 22-26
3/8/13	2013/067:21:24:40	Disable soft trigger algs. 22-26
3/11/13	2013/070:15:57:40	Re-enable soft trigger algs. 22-26
3/15/13	2013/074:20:27:40	Disable soft trigger algs. 22-26
3/18/13	2013/077:14:56:40	Re-enable soft trigger algs. 22-26
3/22/13	2013/081:19:29:40	Disable soft trigger algs. 22-26
3/25/13	2013/084:14:00:40	Re-enable soft trigger algs. 22-26
3/29/13	2013/088:16:50:40	Disable soft trigger algs. 22-26
4/1/13	2013/091:14:43:40	Re-enable soft trigger algs. 22-26
4/5/13	2013/095:12:28:40	Disable soft trigger algs. 22-26
4/8/13	2013/098:12:03:40	Re-enable soft trigger algs. 22-26
4/12/13	2013/102:20:17:40	Disable soft trigger algs. 22-26
4/15/13	2013/105:18:14:44	Re-enable soft trigger algs. 22-26
4/19/13	2013/109:20:51:40	Disable soft trigger algs. 22-26
4/22/13	2013/112:15:30:40	Re-enable soft trigger algs. 22-26
4/26/13	2013/116:19:51:40	Disable soft trigger algs. 22-26
4/29/13	2013/119:14:25:40	Re-enable soft trigger algs. 22-26
5/3/13	2013/123:20:36:40	Disable soft trigger algs. 22-26
5/6/13	2013/126:15:05:40	Re-enable soft trigger algs. 22-26
5/10/13	2013/130:19:37:40	Disable soft trigger algs. 22-26
5/13/13	2013/133:14:08:40	Re-enable soft trigger algs. 22-26
5/13/13	2013/133:20:40:40	Disable soft trigger algs. 22-26
5/17/13	2013/137:15:15:40	Disable soft trigger algs. 22-26
5/20/13	2013/140:13:08:40	Re-enable soft trigger algs. 22-26
5/24/13	2013/144:23:02:40	Disable soft trigger algs. 22-26
5/27/13	2013/147:20:57:40	Re-enable soft trigger algs. 22-26
5/31/13	2013/151:20:18:40	Disable soft trigger algs. 22-26
6/3/13	2013/154:18:13:40	Re-enable soft trigger algs. 22-26
6/7/13	2013/158:20:54:40	Disable soft trigger algs. 22-26

Table 4—Continued

Date	Year/DOY/UT	Operation
6/10/13	2013/161:13:53:40	Re-enable soft trigger algs. 22-26
6/14/13	2013/165:19:56:40	Disable soft trigger algs. 22-26
6/17/13	2013/168:14:25:40	Re-enable soft trigger algs. 22-26
6/28/13	2013/179:17:57:40	Disable soft trigger algs. 22-26
7/1/13	2013/182:14:08:40	Re-enable soft trigger algs. 22-26
7/5/13	2013/186:13:34:40	Disable soft trigger algs. 22-26
7/8/13	2013/189:13:09:40	Re-enable soft trigger algs. 22-26
7/12/13	2013/193:10:53:00	Disable soft trigger algs. 22-26
	2013/196:19:17:00	Re-enable soft trigger algs. 22-26
7/19/13	2013/200:20:15:40	Disable soft trigger algs. 22-26
7/22/13	2013/203:16:32:00	Re-enable soft trigger algs. 22-26
7/26/13	2013/207:20:53:40	Disable soft trigger algs. 22-26
7/29/13	2013/210:13:48:40	Re-enable soft trigger algs. 22-26
8/2/13	2013/214:19:54:40	Disable soft trigger algs. 22-26
8/5/13	2013/217:14:22:40	Re-enable soft trigger algs. 22-26
8/9/13	2013/221:18:52:00	Disable soft trigger algs. 22-26
	2013/223:04:41:00	Disable triggers
	2013/223:07:14:20	Enable triggers
	2013/224:04:32:00	Disable triggers
	2013/224:07:05:20	Enable triggers
8/12/13	2013/224:15:04:40	Re-enable soft trigger algs. 22-26
	2013/225:04:23:00	Disable triggers
	2013/225:06:57:20	Enable triggers
8/16/13	2013/228:02:16:00	Disable triggers
	2013/228:04:50:20	Enable triggers
8/16/13	2013/228:16:11:40	Disable soft trigger algs. 22-26
8/19/13	2013/231:14:03:40	Re-enable soft trigger algs. 22-26
	2013/233:22:58:00	Disable triggers
8/23/13	2013/235:13:31:00	Disable soft trigger algs. 22-26
8/26/13	2013/238:11:22:00	Re-enable soft trigger algs. 22-26
8/26/13	2013/238:18:46:19	Enable triggers
8/30/13	2013/242:09:06:35	Disable soft trigger algs. 22-26
9/3/13	2013/246:17:22:35	Re-enable soft trigger algs. 22-26
9/6/13	2013/249:20:06:40	Disable soft trigger algs. 22-26
9/9/13	2013/252:14:45:40	Re-enable soft trigger algs. 22-26
9/13/13	2013/256:20:47:40	Disable soft trigger algs. 22-26
9/16/13	2013/259:13:38:40	Re-enable soft trigger algs. 22-26
9/20/13	2013/263:19:46:40	Disable soft trigger algs. 22-26

Table 4—Continued

Date	Year/DOY/UT	Operation
9/23/13	2013/266:12:33:40	Re-enable soft trigger algs. 22-26
	2013/270:04:50:00	Disable triggers
	2013/270:07:23:20	Enable triggers
9/27/13	2013/270:18:45:40	Disable soft trigger algs. 22-26
9/30/13	2013/273:13:15:40	Re-enable soft trigger algs. 22-26
10/1/13	2013/274:02:34:00	Disable triggers
	2013/274:05:07:20	Enable triggers
10/2/13	2013/275:02:25:00	Disable triggers
	2013/275:04:58:20	Enable triggers
10/3/13	2013/276:02:16:00	Disable triggers
	2013/276:04:24:20	Enable triggers
10/4/13	2013/277:14:21:40	Disable soft trigger algs. 22-26
10/6/13	2013/279:00:09:00	Disable triggers
	2013/279:02:18:20	Enable triggers
10/7/13	2013/280:00:00:00	Disable triggers
	2013/280:02:08:20	Enable triggers
10/7/13	2013/280:13:55:40	Re-enable soft trigger algs. 22-26
10/11/13	2013/284:22:08:35	Disable soft trigger algs. 22-26
10/15/13	2013/288:19:52:35	Re-enable soft trigger algs. 22-26
10/18/13	2013/291:21:00:40	Disable soft trigger algs. 22-26
10/21/13	2013/294:17:17:40	Re-enable soft trigger algs. 22-26
10/25/13	2013/298:19:55:40	Disable soft trigger algs. 22-26
10/28/13	2013/301:14:32:40	Re-enable soft trigger algs. 22-26
11/1/13	2013/305:20:35:35	Disable soft trigger algs. 22-26
11/4/13	2013/308:13:23:35	Re-enable soft trigger algs. 22-26
11/8/13	2013/312:19:33:40	Disable soft trigger algs. 22-26
11/12/13	2013/316:15:35:40	Re-enable soft trigger algs. 22-26
11/15/13	2013/319:16:50:40	Disable soft trigger algs. 22-26
11/18/13	2013/322:14:42:40	Re-enable soft trigger algs. 22-26
11/22/13	2013/326:14:06:40	Disable soft trigger algs. 22-26
11/25/13	2013/329:11:57:40	Re-enable soft trigger algs. 22-26
11/27/13	2013/331:22:07:40	Disable soft trigger algs. 22-26
12/2/13	2013/336:19:41:40	Re-enable soft trigger algs. 22-26
12/6/13	2013/340:20:39:40	Disable soft trigger algs. 22-26
12/9/13	2013/343:15:18:40	Re-enable soft trigger algs. 22-26
12/13/13	2013/347:22:58:40	Disable soft trigger algs. 22-26
12/16/13	2013/350:14:08:40	Re-enable soft trigger algs. 22-26
12/20/13	2013/354:20:14:40	Disable soft trigger algs. 22-26

Table 4—Continued

Date	Year/DOY/UT	Operation
1/2/14	2014/002:13:11:40	Re-enable soft trigger algs. 22-26
1/3/14	2014/003:16:25:40	Disable soft trigger algs. 22-26
1/6/14	2014/006:14:17:40	Re-enable soft trigger algs. 22-26
1/10/14	2014/010:11:58:40	Disable soft trigger algs. 22-26
1/13/14	2014/013:11:31:40	Re-enable soft trigger algs. 22-26
1/17/14	2014/017:19:41:40	Disable soft trigger algs. 22-26
1/21/14	2014/021:17:24:40	Re-enable soft trigger algs. 22-26
1/24/14	2014/024:20:09:40	Disable soft trigger algs. 22-26
1/27/14	2014/027:14:46:40	Re-enable soft trigger algs. 22-26
1/31/14	2014/031:20:47:40	Disable soft trigger algs. 22-26
2/3/14	2014/034:15:14:40	Re-enable soft trigger algs. 22-26
2/4/14	2014/035:16:43:22	Disable soft trigger algs. 22-26
2/7/14	2014/038:19:43:40	Disable soft trigger algs. 22-26
2/10/14	2014/041:14:09:40	Re-enable soft trigger algs. 22-26
2/14/14	2014/045:18:37:40	Disable soft trigger algs. 22-26
2/18/14	2014/049:14:37:40	Re-enable soft trigger algs. 22-26
2/21/14	2014/052:14:10:40	Disable soft trigger algs. 22-26
2/24/14	2014/055:13:42:40	Re-enable soft trigger algs. 22-26
2/28/14	2014/059:21:51:35	Disable soft trigger algs. 22-26
3/3/14	2014/062:19:45:35	Re-enable soft trigger algs. 22-26
3/7/14	2014/066:19:02:40	Disable soft trigger algs. 22-26
3/10/14	2014/069:16:55:40	Re-enable soft trigger algs. 22-26
3/14/14	2014/073:21:10:40	Disable soft trigger algs. 22-26
3/17/14	2014/076:14:05:40	Re-enable soft trigger algs. 22-26
3/21/14	2014/080:20:06:40	Disable soft trigger algs. 22-26
3/24/14	2014/083:12:53:40	Re-enable soft trigger algs. 22-26
3/28/14	2014/087:20:41:40	Disable soft trigger algs. 22-26
3/31/14	2014/090:13:26:40	Re-enable soft trigger algs. 22-26
4/4/14	2014/094:16:10:40	Disable soft trigger algs. 22-26
4/7/14	2014/097:12:20:40	Re-enable soft trigger algs. 22-26
4/11/14	2014/101:13:22:40	Disable soft trigger algs. 22-26
4/14/14	2014/104:11:12:40	Re-enable soft trigger algs. 22-26
4/18/14	2014/108:21:00:40	Disable soft trigger algs. 22-26
4/21/14	2014/111:18:51:40	Re-enable soft trigger algs. 22-26
4/25/14	2014/115:21:25:40	Disable soft trigger algs. 22-26
4/28/14	2014/118:16:00:40	Re-enable soft trigger algs. 22-26
5/2/14	2014/122:22:00:40	Disable soft trigger algs. 22-26
5/5/14	2014/125:13:08:40	Re-enable soft trigger algs. 22-26

Table 4—Continued

Date	Year/DOY/UT	Operation
5/9/14	2014/129:20:50:35	Disable soft trigger algs. 22-26
5/12/14	2014/132:13:34:35	Re-enable soft trigger algs. 22-26
5/16/14	2014/136:19:43:46	Disable soft trigger algs. 22-26
5/19/14	2014/139:12:28:46	Re-enable soft trigger algs. 22-26
5/23/14	2014/143:15:11:40	Disable soft trigger algs. 22-26
5/27/14	2014/147:12:51:40	Re-enable soft trigger algs. 22-26
5/30/14	2014/150:22:49:40	Disable soft trigger algs. 22-26
6/2/14	2014/153:10:10:40	Re-enable soft trigger algs. 22-26
6/6/14	2014/157:21:34:40	Disable soft trigger algs. 22-26
6/9/14	2014/160:17:48:40	Re-enable soft trigger algs. 22-26
6/12/14	2014/163:16:12:50	Disable soft trigger algs. 22-26
6/13/14	2014/164:20:21:40	Disable soft trigger algs. 22-26
6/16/14	2014/167:14:55:40	Re-enable soft trigger algs. 22-26
6/20/14	2014/171:20:55:40	Disable soft trigger algs. 22-26
6/23/14	2014/174:12:03:40	Re-enable soft trigger algs. 22-26
6/27/14	2014/178:19:46:40	Disable soft trigger algs. 22-26
6/30/14	2014/181:12:29:40	Re-enable soft trigger algs. 22-26



Table 5. GRB Triggers: Locations and Trigger Characteristics

Trigger ID	GRB Name	Time (UT)	$\alpha$ ( $^\circ$ )	$\delta$ ( $^\circ$ )	Error ( $^\circ$ )	Location Source	Algorithm	Timescale (ms)	Energy (keV)	Other Detections <sup>a</sup> and/or ARRs
bn080714086	GRB 080714B	02:04:12.0534	41.9	8.5	7.5	<i>Fermi</i> -GBM	10	512	47-291	K
bn080714425	GRB 080714C	10:12:01.8376	187.5	-74.0	8.7	<i>Fermi</i> -GBM	17	4096	47-291	
bn080714745	GRB 080714A	17:52:54.0234	188.1	-60.2	0.0	<i>Swift</i>	13	1024	47-291	K, R, IA, S, Me, A
bn080715950	GRB 080715A	22:48:40.1634	214.7	9.9	2.0	<i>Fermi</i> -GBM	29	256	23-47	K, Me, A
bn080717543	GRB 080717A	13:02:35.2207	147.3	-70.0	4.7	<i>Fermi</i> -GBM	17	4096	47-291	
bn080719529	GRB 080719A	12:41:40.9578	153.2	-61.3	13.8	<i>Fermi</i> -GBM	16	4096	47-291	K, A
bn080720316	GRB 080720A	07:35:35.5476	98.5	-43.9	4.8	<i>Fermi</i> -GBM	19	8192	47-291	
bn080723557	GRB 080723B	13:22:21.3751	176.8	-60.2	0.0	<i>Swift</i>	8	256	47-291	K, IA, IS, Me, A
bn080723913	GRB 080723C	21:55:23.0583	113.3	-19.7	9.9	<i>Fermi</i> -GBM	5	64	47-291	W
bn080723985	GRB 080723D	23:37:42.7083	105.3	71.1	1.0	<i>Fermi</i> -GBM	11	512	47-291	K, IA, Me, W, A
bn080724401	GRB 080724A	09:37:40.6034	358.3	32.9	1.6	<i>Fermi</i> -GBM	9	256	47-291	K, R, IA, S, W
bn080725435	GRB 080725A	10:26:09.0559	121.7	-14.0	0.0	<i>Swift</i>	4	64	47-291	K, IA, S, Me
bn080725541	GRB 080725B	12:59:23.7624	354.8	8.9	3.5	<i>Fermi</i> -GBM	4	64	47-291	K, IA, S, W
bn080727964	GRB 080727C	23:07:46.2169	32.6	64.1	0.0	<i>Swift</i>	15	2048	47-291	S, W
bn080730520	GRB 080730A	12:29:15.4032	245.4	4.6	2.1	<i>Fermi</i> -GBM	17	4096	47-291	K, W
bn080730786	GRB 080730B	18:51:38.1813	246.6	28.7	2.1	<i>Fermi</i> -GBM	4	64	47-291	K, R, Me, W, A
bn080802386	GRB 080802A	09:15:10.5274	154.3	40.7	4.1	<i>Fermi</i> -GBM	5	64	47-291	K, IA, W
bn080803772	GRB 080803A	18:31:22.0407	300.1	82.8	5.9	<i>Fermi</i> -GBM	14	2048	47-291	K, IA, S, Me, W, A
bn080804456	GRB 080804B	10:56:07.1590	107.5	20.3	7.3	<i>Fermi</i> -GBM	17	4096	47-291	K
bn080804972	GRB 080804A	23:20:14.8794	328.7	-53.2	0.0	<i>Swift</i>	10	512	47-291	K, R, IA, S, Me
bn080805496	GRB 080805B	11:53:50.5646	322.7	47.9	5.6	<i>Fermi</i> -GBM	17	4096	47-291	
bn080805584	GRB 080805C	14:01:06.2435	174.5	-23.1	5.7	<i>Fermi</i> -GBM	15	2048	47-291	R
bn080806584	GRB 080806A	14:01:11.2038	94.6	57.8	13.6	<i>Fermi</i> -GBM	11	512	47-291	
bn080806896	GRB 080806B	21:29:40.8238	241.8	46.7	2.9	<i>Fermi</i> -GBM	39	8192	23-47	K, S, Me, W
bn080807993	GRB 080807A	23:50:32.6388	101.7	-16.0	2.6	<i>Fermi</i> -GBM	1	16	47-291	K, IA
bn080808451	GRB 080808A	10:50:03.2649	107.4	-33.8	13.6	<i>Fermi</i> -GBM	16	4096	47-291	
bn080808565	GRB 080808B	13:33:48.3383	33.6	5.4	2.6	<i>Fermi</i> -GBM	12	1024	47-291	K
bn080808772	GRB 080808C	18:31:39.7362	96.7	-14.4	12.3	<i>Fermi</i> -GBM	17	4096	47-291	
bn080809808	GRB 080809A	19:23:33.1292	91.7	61.4	7.1	<i>Fermi</i> -GBM	16	4096	47-291	K, W
bn080810549	GRB 080810A	13:10:12.5806	356.8	0.3	0.0	<i>Swift</i>	9	256	47-291	K, IA, S

Table 5—Continued

Trigger ID	GRB Name	Time (UT)	$\alpha$ ( $^\circ$ )	$\delta$ ( $^\circ$ )	Error ( $^\circ$ )	Location Source	Algorithm	Timescale (ms)	Energy (keV)	Other Detections <sup>a</sup> and/or ARRs
bn080812889	GRB 080812A	21:19:33.8316	176.7	-33.2	4.1	<i>Fermi</i> -GBM	15	2048	47-291	IA, W
bn080815917	GRB 080815A	22:00:05.0847	240.9	-47.8	6.3	<i>Fermi</i> -GBM	7	128	47-291	
bn080816503	GRB 080816A	12:04:18.1801	156.2	42.6	2.0	<i>Fermi</i> -GBM	13	1024	47-291	K, Me
bn080816989	GRB 080816B	23:43:54.6901	289.5	-6.8	5.3	<i>Fermi</i> -GBM	4	64	47-291	K, IA, Me, W
bn080817161	GRB 080817A	03:52:10.5370	148.9	-16.3	1.0	<i>Fermi</i> -GBM	10	512	47-291	K, IA, Me, W, A
bn080817720	GRB 080817B	17:17:07.5186	80.2	-17.1	5.7	<i>Fermi</i> -GBM	5	64	47-291	S, Me, W
bn080818579	GRB 080818A	13:54:24.8403	60.4	-6.9	6.5	<i>Fermi</i> -GBM	9	256	47-291	
bn080818945	GRB 080818B	22:40:49.0790	98.1	7.4	7.3	<i>Fermi</i> -GBM	11	512	47-291	W
bn080821332	GRB 080821A	07:57:26.4787	238.6	32.6	3.6	<i>Fermi</i> -GBM	11	512	47-291	K, R, Me
bn080823363	GRB 080823A	08:42:13.1426	89.8	-42.4	3.3	<i>Fermi</i> -GBM	16	4096	47-291	W
bn080824909	GRB 080824A	21:48:54.7277	122.4	-2.8	1.0	<i>Fermi</i> -GBM	6	128	47-291	K
bn080825593	GRB 080825C	14:13:48.1048	234.0	-4.7	1.5	<i>Fermi</i> -GBM	9	256	47-291	K, R, IA, S, Me, A, L
bn080828189	GRB 080828B	04:32:11.2646	221.3	-12.3	16.9	<i>Fermi</i> -GBM	8	256	47-291	
bn080829790	GRB 080829A	18:57:36.4204	221.9	3.2	4.3	<i>Fermi</i> -GBM	8	256	47-291	K, S
bn080830368	GRB 080830A	08:50:16.3344	160.1	30.8	2.5	<i>Fermi</i> -GBM	10	512	47-291	K, R, S, Me
bn080831053	GRB 080831A	01:16:14.7521	211.2	-51.7	11.5	<i>Fermi</i> -GBM	3	32	47-291	IA
bn080831921	GRB 080831B	22:06:23.1654	259.1	-23.2	2.8	<i>Fermi</i> -GBM	8	256	47-291	K
bn080904886	GRB 080904A	21:16:04.7512	214.2	-30.3	2.1	<i>Fermi</i> -GBM	37	4096	23-47	K
bn080905499	GRB 080905A	11:58:55.0382	287.7	-18.9	0.0	<i>Swift</i>	2	32	47-291	IA, S, W, A
bn080905570	GRB 080905C	13:41:29.3763	96.9	-69.8	8.0	<i>Fermi</i> -GBM	12	1024	47-291	W
bn080905705	GRB 080905B	16:55:46.8427	301.7	-62.6	0.0	<i>Swift</i>	12	1024	47-291	IA, S
bn080906212	GRB 080906B	05:05:11.5469	182.8	-6.4	1.3	<i>Fermi</i> -GBM	9	256	47-291	K, IA, S, Me, W, A
bn080912360	GRB 080912A	08:38:55.9394	25.8	-7.2	7.1	<i>Fermi</i> -GBM	15	2048	47-291	W
bn080913735	GRB 080913B	17:38:31.4195	45.1	-3.0	5.9	<i>Fermi</i> -GBM	8	256	47-291	
bn080916009	GRB 080916C	00:12:45.6135	119.8	-56.6	0.0	<i>Swift</i>	16	4096	47-291	K, R, IA, Me, A, L
bn080916406	GRB 080916A	09:45:18.9384	336.3	-57.0	0.0	<i>Swift</i>	14	2048	47-291	K, IA, S, Me, W
bn080919790	GRB 080919B	18:57:35.1052	219.5	44.4	18.1	<i>Fermi</i> -GBM	1	16	47-291	
bn080920268	GRB 080920A	06:25:48.8588	121.6	8.9	5.4	<i>Fermi</i> -GBM	17	4096	47-291	IA
bn080924766	GRB 080924A	18:22:36.8437	72.8	32.5	4.4	<i>Fermi</i> -GBM	13	1024	47-291	K
bn080925775	GRB 080925A	18:35:55.9970	96.1	18.2	1.2	<i>Fermi</i> -GBM	8	256	47-291	K, R, Me, W

Table 5—Continued

Trigger ID	GRB Name	Time (UT)	$\alpha$ ( $^{\circ}$ )	$\delta$ ( $^{\circ}$ )	Error ( $^{\circ}$ )	Location Source	Algorithm	Timescale (ms)	Energy (keV)	Other Detections <sup>a</sup> and/or ARRs
bn080927480	GRB 080927A	11:30:32.1064	61.3	27.4	4.6	<i>Fermi</i> -GBM	13	1024	47-291	K, W
bn080928628	GRB 080928A	15:04:56.0478	95.1	-55.2	0.0	<i>Swift</i>	9	256	47-291	
bn081003644	GRB 081003C	15:27:17.9319	259.1	35.4	6.9	<i>Fermi</i> -GBM	14	2048	47-291	K, W
bn081006604	GRB 081006A	14:29:34.1726	142.0	-67.4	8.0	<i>Fermi</i> -GBM	6	128	47-291	IA, S, W, L
bn081006872	GRB 081006B	20:55:35.5945	172.2	-61.0	8.7	<i>Fermi</i> -GBM	10	512	47-291	IA
bn081008832	GRB 081008A	19:58:01.7992	280.0	-57.4	0.0	<i>Swift</i>	12	1024	47-291	IA, S, Me, W
bn081009140	GRB 081009A	03:20:58.0628	250.5	18.4	1.0	<i>Fermi</i> -GBM	8	256	47-291	K, R, IA, S, Me
bn081009690	GRB 081009B	16:33:37.3376	64.6	14.2	2.1	<i>Fermi</i> -GBM	9	256	47-291	
bn081012045	GRB 081012B	01:05:22.7830	69.7	4.5	5.4	<i>Fermi</i> -GBM	7	128	47-291	IA
bn081012549	GRB 081012A	13:10:23.0326	30.2	-17.6	0.0	<i>Swift</i>	12	1024	47-291	IA, S, Me
bn081017474	GRB 081017B	11:22:37.4396	109.0	-15.2	8.0	<i>Fermi</i> -GBM	13	1024	47-291	
bn081021398	GRB 081021A	09:33:28.0154	190.3	-25.6	4.1	<i>Fermi</i> -GBM	10	512	47-291	K, R, S, Me
bn081022364	GRB 081022A	08:44:44.8470	205.4	16.6	7.9	<i>Fermi</i> -GBM	8	256	47-291	W
bn081024245	GRB 081024A	05:53:09.0057	27.9	61.3	0.0	<i>Swift</i>	4	64	47-291	R, IA, S
bn081024851	GRB 081024C	20:25:34.1230	145.8	-10.8	4.5	<i>Fermi</i> -GBM	14	2048	47-291	
bn081024891	GRB 081024B	21:22:40.8642	322.9	21.2	0.2	<i>Fermi</i> -LAT	4	64	47-291	IA, W, L
bn081025349	GRB 081025A	08:23:05.2927	245.4	60.5	0.0	<i>Swift</i>	10	512	47-291	K, R, IA, S, Me, W
bn081028538	GRB 081028B	12:55:08.1805	16.0	-27.2	6.9	<i>Fermi</i> -GBM	8	256	47-291	
bn081101167	GRB 081101C	04:00:39.6334	213.3	-18.5	8.1	<i>Fermi</i> -GBM	18	8192	47-291	
bn081101491	GRB 081101A	11:46:32.0579	95.8	-0.1	0.0	<i>Swift</i>	4	64	47-291	S
bn081101532	GRB 081101B	12:45:24.0820	207.5	-28.0	1.1	<i>Fermi</i> -GBM	10	512	47-291	K, IA, S, Me
bn081102365	GRB 081102B	08:45:00.5059	225.3	22.0	8.6	<i>Fermi</i> -GBM	4	64	47-291	IA, Me, W, A
bn081102739	GRB 081102A	17:44:21.5994	331.2	53.0	0.0	<i>Swift</i>	12	1024	47-291	K, S
bn081105614	GRB 081105B	14:43:51.2874	215.8	38.7	11.4	<i>Fermi</i> -GBM	5	64	47-291	
bn081107321	GRB 081107A	07:42:01.1149	51.0	17.1	3.5	<i>Fermi</i> -GBM	7	128	47-291	K, R
bn081109293	GRB 081109A	07:02:02.4154	330.8	-54.7	0.0	<i>Swift</i>	17	4096	47-291	R, IA, S, W
bn081110601	GRB 081110A	14:25:43.0316	111.7	21.4	1.8	<i>Fermi</i> -GBM	56	128	>100	K, IA, S, Me, A
bn081113230	GRB 081113A	05:31:32.8973	170.3	56.3	12.4	<i>Fermi</i> -GBM	26	64	23-47	K, IA, S
bn081115891	GRB 081115A	21:22:28.1472	190.6	63.3	15.1	<i>Fermi</i> -GBM	8	256	47-291	
bn081118876	GRB 081118B	21:00:53.5357	54.6	-43.3	3.6	<i>Fermi</i> -GBM	13	1024	47-291	K, R

Table 5—Continued

Trigger ID	GRB Name	Time (UT)	$\alpha$ ( $^\circ$ )	$\delta$ ( $^\circ$ )	Error ( $^\circ$ )	Location Source	Algorithm	Timescale (ms)	Energy (keV)	Other Detections <sup>a</sup> and/or ARRs
bn081119184	GRB 081119A	04:25:27.0591	346.5	30.0	15.2	<i>Fermi</i> -GBM	10	512	47-291	
bn081120618	GRB 081120A	14:49:34.5666	205.4	-9.1	6.0	<i>Fermi</i> -GBM	15	2048	47-291	
bn081121858	GRB 081121A	20:35:27.7540	89.3	-60.6	0.0	<i>Swift</i>	14	2048	47-291	Mo, K, IA, S, A
bn081122520	GRB 081122A	12:28:12.2113	339.1	40.0	1.0	<i>Fermi</i> -GBM	6	128	47-291	K, R, IA, W, ARR
bn081122614	GRB 081122B	14:43:26.2316	151.4	-2.1	11.2	<i>Fermi</i> -GBM	1	16	47-291	
bn081124060	GRB 081124A	01:26:10.8478	340.1	-14.6	2.5	<i>Fermi</i> -GBM	34	1024	23-47	K, R, IA
bn081125496	GRB 081125A	11:53:39.0035	42.7	-18.9	1.0	<i>Fermi</i> -GBM	9	256	47-291	Mo, K, R, IA, S, W, A
bn081126899	GRB 081126A	21:34:09.0649	323.5	48.7	0.0	<i>Swift</i>	9	256	47-291	K, IA, S
bn081129161	GRB 081129A	03:52:04.2604	63.2	-54.9	3.0	<i>Fermi</i> -GBM	9	256	47-291	K, R, IA
bn081130212	GRB 081130A	05:04:40.7189	34.2	45.4	7.2	<i>Fermi</i> -GBM	26	64	23-47	
bn081130629	GRB 081130B	15:05:15.7220	13.2	-5.5	3.8	<i>Fermi</i> -GBM	11	512	47-291	K, W
bn081204004	GRB 081204C	00:05:24.2438	63.3	-62.6	4.8	<i>Fermi</i> -GBM	11	512	47-291	K
bn081204517	GRB 081204B	12:24:25.7930	150.8	30.5	10.2	<i>Fermi</i> -GBM	1	16	47-291	S
bn081206275	GRB 081206A	06:35:53.0181	120.1	32.8	6.4	<i>Fermi</i> -GBM	17	4096	47-291	K, IA, W
bn081206604	GRB 081206B	14:29:30.6928	353.3	-31.9	12.6	<i>Fermi</i> -GBM	14	2048	47-291	W
bn081206987	GRB 081206C	23:41:50.4689	54.3	-8.6	11.2	<i>Fermi</i> -GBM	15	2048	47-291	IA, W
bn081207680	GRB 081207A	16:18:46.9364	112.4	70.5	1.2	<i>Fermi</i> -GBM	12	1024	47-291	K, R, IA, W, A
bn081209981	GRB 081209A	23:31:56.3889	45.3	63.5	4.9	<i>Fermi</i> -GBM	1	16	47-291	K, S, A
bn081213173	GRB 081213A	04:09:41.6360	12.9	-33.9	13.2	<i>Fermi</i> -GBM	3	32	47-291	IA
bn081215784	GRB 081215A	18:48:36.8462	125.6	54.0	1.0	IPN	11	512	47-291	K, R, IA, A
bn081215880	GRB 081215B	21:06:53.0399	228.6	-50.7	5.4	<i>Fermi</i> -GBM	8	256	47-291	K, S, W
bn081216531	GRB 081216A	12:43:59.9939	129.2	7.6	4.4	<i>Fermi</i> -GBM	6	128	47-291	K, R, IA, S, W
bn081217983	GRB 081217A	23:34:49.0146	116.8	26.8	2.0	<i>Fermi</i> -GBM	14	2048	47-291	K, R, IA
bn081221681	GRB 081221A	16:21:12.2182	15.8	-24.5	0.0	<i>Swift</i>	8	256	47-291	Mo, K, S
bn081222204	GRB 081222A	04:54:00.2557	22.7	-34.1	0.0	<i>Swift</i>	8	256	47-291	Mo, K, R, IA, S, A
bn081223419	GRB 081223A	10:03:57.1476	112.5	33.2	3.8	<i>Fermi</i> -GBM	2	32	47-291	IA
bn081224887	GRB 081224A	21:17:55.4139	201.7	75.1	1.0	<i>Fermi</i> -GBM	5	64	47-291	K, IA, S, W, A, ARR
bn081225257	GRB 081225A	06:09:21.3432	234.1	-64.6	6.9	<i>Fermi</i> -GBM	17	4096	47-291	
bn081226044	GRB 081226A	01:03:37.5263	120.5	-69.0	0.0	<i>Swift</i>	7	128	47-291	IA, S
bn081226156	GRB 081226C	03:44:52.4146	193.0	26.8	2.4	<i>Fermi</i> -GBM	34	1024	23-47	K

Table 5—Continued

Trigger ID	GRB Name	Time (UT)	$\alpha$ ( $^\circ$ )	$\delta$ ( $^\circ$ )	Error ( $^\circ$ )	Location Source	Algorithm	Timescale (ms)	Energy (keV)	Other Detections <sup>a</sup> and/or ARRs
bn081226509	GRB 081226B	12:13:10.7055	25.5	-47.4	0.0	<i>INTEGRAL</i>	4	64	47-291	IA, IS, S, W
bn081229187	GRB 081229A	04:29:01.8801	172.6	56.9	8.8	<i>Fermi</i> -GBM	5	64	47-291	IA
bn081229675	GRB 081229B	16:12:17.3755	310.0	22.8	20.7	<i>Fermi</i> -GBM	1	16	47-291	
bn081230871	GRB 081230B	20:53:40.9368	207.6	-17.3	7.7	<i>Fermi</i> -GBM	7	128	47-291	
bn081231140	GRB 081231A	03:21:01.9340	208.6	-35.8	1.0	<i>Fermi</i> -GBM	10	512	47-291	Mo, K, IA, ARR
bn090101758	GRB 090101A	18:11:41.9175	77.8	-31.6	1.2	<i>Fermi</i> -GBM	13	1024	47-291	K, R
bn090102122	GRB 090102A	02:55:30.8461	128.2	33.1	0.0	<i>Swift</i>	8	256	47-291	Mo, K, IA, S, A
bn090107681	GRB 090107B	16:20:42.7656	284.8	59.6	0.0	<i>INTEGRAL</i>	14	2048	47-291	K, IS, W
bn090108020	GRB 090108A	00:29:02.3655	260.8	46.0	3.8	<i>Fermi</i> -GBM	1	16	47-291	K, W
bn090108322	GRB 090108B	07:43:23.3598	0.4	-32.9	8.3	<i>Fermi</i> -GBM	3	32	47-291	
bn090109332	GRB 090109A	07:58:29.4926	129.6	51.8	9.8	<i>Fermi</i> -GBM	8	256	47-291	
bn090112332	GRB 090112A	07:57:23.1109	110.9	-30.4	1.0	<i>Fermi</i> -GBM	10	512	47-291	IA, W
bn090112729	GRB 090112B	17:30:15.4538	192.3	25.4	1.7	<i>Fermi</i> -GBM	13	1024	47-291	Mo, K, R, S, Me, W
bn090113778	GRB 090113A	18:40:40.8419	32.1	33.4	0.0	<i>Swift</i>	10	512	47-291	S, Me, W
bn090117335	GRB 090117B	08:02:02.2267	227.3	-41.5	4.8	<i>Fermi</i> -GBM	10	512	47-291	
bn090117632	GRB 090117C	15:10:40.1758	121.6	-38.8	1.9	<i>Fermi</i> -GBM	17	4096	47-291	K, IA, W
bn090117640	GRB 090117A	15:22:01.0547	164.0	-58.2	0.0	<i>AGILE</i>	9	256	47-291	K, A
bn090120627	GRB 090120A	15:02:22.7594	38.1	-72.2	11.2	<i>Fermi</i> -GBM	11	512	47-291	W
bn090126227	GRB 090126B	05:26:22.2341	189.2	34.1	3.6	<i>Fermi</i> -GBM	34	1024	23-47	
bn090126245	GRB 090126C	05:52:33.7347	224.9	41.2	11.1	<i>Fermi</i> -GBM	8	256	47-291	W
bn090129880	GRB 090129A	21:07:15.4256	269.0	-32.8	0.0	<i>Swift</i>	8	256	47-291	IA, S, Me
bn090131090	GRB 090131A	02:09:21.1491	352.3	21.2	1.0	<i>Fermi</i> -GBM	8	256	47-291	Mo, K, R, IA, S, Me, W, A
bn090202347	GRB 090202A	08:19:30.4005	274.3	-2.0	2.6	<i>Fermi</i> -GBM	13	1024	47-291	K, IA, Me
bn090206620	GRB 090206A	14:52:42.1707	156.2	8.8	8.7	<i>Fermi</i> -GBM	1	16	47-291	R, IA, W
bn090207777	GRB 090207A	18:39:10.8373	252.7	34.9	3.8	<i>Fermi</i> -GBM	12	1024	47-291	R, IA, S, Me, W
bn090213236	GRB 090213A	05:39:25.4589	330.6	-55.0	3.1	<i>Fermi</i> -GBM	16	4096	47-291	
bn090217206	GRB 090217A	04:56:42.5578	204.9	-8.4	0.5	<i>Fermi</i> -LAT	9	256	47-291	Mo, K, R, IA, Me, W, L
bn090219074	GRB 090219A	01:46:18.1486	26.5	59.2	5.2	<i>Fermi</i> -GBM	5	64	47-291	IA
bn090222179	GRB 090222A	04:17:09.5761	118.6	45.0	4.3	<i>Fermi</i> -GBM	10	512	47-291	
bn090225009	GRB 090225A	00:12:23.9776	358.2	61.0	8.7	<i>Fermi</i> -GBM	8	256	47-291	A

Table 5—Continued

Trigger ID	GRB Name	Time (UT)	$\alpha$ ( $^{\circ}$ )	$\delta$ ( $^{\circ}$ )	Error ( $^{\circ}$ )	Location Source	Algorithm	Timescale (ms)	Energy (keV)	Other Detections <sup>a</sup> and/or ARR
bn090227310	GRB 090227A	07:25:57.0031	3.3	-43.0	1.2	<i>Fermi</i> -GBM	9	256	47-291	Mo, K, R, IA, W
bn090227772	GRB 090227B	18:31:01.4069	11.8	32.2	1.8	<i>Fermi</i> -GBM	1	16	47-291	K, IA, Me, W, L, ARR
bn090228204	GRB 090228A	04:53:20.9115	106.8	-24.3	1.0	<i>Fermi</i> -GBM	1	16	47-291	Mo, K, R, Me, A, ARR
bn090228976	GRB 090228B	23:25:01.0233	357.6	36.7	3.3	<i>Fermi</i> -GBM	9	256	47-291	IA, W
bn090301315	GRB 090301B	07:33:37.9783	352.8	9.5	5.0	<i>Fermi</i> -GBM	13	1024	47-291	R, IA, W
bn090304216	GRB 090304A	05:10:48.1569	195.9	-73.4	12.3	<i>Fermi</i> -GBM	8	256	47-291	IA, Me
bn090305052	GRB 090305B	01:14:35.7277	135.0	74.3	5.4	<i>Fermi</i> -GBM	5	64	47-291	K, IA, Me, A
bn090306245	GRB 090306C	05:52:05.3453	137.0	57.0	4.1	<i>Fermi</i> -GBM	14	2048	47-291	
bn090307167	GRB 090307B	03:59:57.2490	172.7	-23.9	12.4	<i>Fermi</i> -GBM	17	4096	47-291	
bn090308734	GRB 090308B	17:36:24.6992	21.9	-54.3	4.8	<i>Fermi</i> -GBM	7	128	47-291	K, R, IA, S, Me
bn090309767	GRB 090309B	18:25:07.1934	174.3	-49.5	3.6	<i>Fermi</i> -GBM	12	1024	47-291	
bn090310189	GRB 090310A	04:32:49.9024	184.9	-34.2	4.7	<i>Fermi</i> -GBM	9	256	47-291	
bn090316311	GRB 090316A	07:27:42.4470	256.1	-38.9	9.3	<i>Fermi</i> -GBM	4	64	47-291	
bn090319622	GRB 090319A	14:55:35.2224	283.3	-8.9	2.6	<i>Fermi</i> -GBM	17	4096	47-291	K, IA, A
bn090320045	GRB 090320C	01:05:10.5273	108.3	-43.3	17.9	<i>Fermi</i> -GBM	14	2048	47-291	
bn090320418	GRB 090320A	10:01:46.0112	238.0	-46.5	12.0	<i>Fermi</i> -GBM	12	1024	47-291	
bn090320801	GRB 090320B	19:13:46.0964	183.4	49.8	9.5	<i>Fermi</i> -GBM	11	512	47-291	K
bn090323002	GRB 090323A	00:02:42.6274	190.7	17.1	0.0	<i>Swift</i>	14	2048	47-291	Mo, K, IA, S, Me, L, ARR
bn090326633	GRB 090326A	15:10:49.4848	259.7	-7.4	4.0	<i>Fermi</i> -GBM	15	2048	47-291	
bn090327404	GRB 090327A	09:41:41.5202	33.1	-41.5	3.1	<i>Fermi</i> -GBM	12	1024	47-291	K, R
bn090328401	GRB 090328A	09:36:46.5113	90.9	-42.0	0.0	<i>Swift</i>	14	2048	47-291	K, R, IA, S, Me, A, L, ARR
bn090328713	GRB 090328B	17:07:04.9370	155.7	33.4	7.9	<i>Fermi</i> -GBM	1	16	47-291	K, IA, W, A, ARR
bn090330279	GRB 090330A	06:42:22.0973	160.2	-8.2	2.1	<i>Fermi</i> -GBM	14	2048	47-291	K, R, Me
bn090331681	GRB 090331A	16:20:20.3852	210.5	3.1	9.3	<i>Fermi</i> -GBM	5	64	47-291	IA
bn090403314	GRB 090403A	07:32:42.1295	67.1	47.2	9.7	<i>Fermi</i> -GBM	12	1024	47-291	K
bn090405663	GRB 090405A	15:54:41.3408	221.9	-9.2	10.4	<i>Fermi</i> -GBM	5	64	47-291	IA, S
bn090409288	GRB 090409A	06:54:01.4422	302.1	1.1	9.6	<i>Fermi</i> -GBM	17	4096	47-291	IA
bn090411838	GRB 090411A	20:06:36.8889	156.0	-68.9	2.4	<i>Fermi</i> -GBM	6	128	47-291	K, R, IA, S, Me, W
bn090411991	GRB 090411B	23:47:44.8754	38.5	5.1	2.4	<i>Fermi</i> -GBM	10	512	47-291	Mo, K, S, W
bn090412061	GRB 090412A	01:28:05.2531	1.3	-51.9	10.6	<i>Fermi</i> -GBM	7	128	47-291	IA

Table 5—Continued

Trigger ID	GRB Name	Time (UT)	$\alpha$ ( $^\circ$ )	$\delta$ ( $^\circ$ )	Error ( $^\circ$ )	Location Source	Algorithm	Timescale (ms)	Energy (keV)	Other Detections <sup>a</sup> and/or ARRs
bn090413122	GRB 090413A	02:55:57.2416	266.5	-9.2	5.5	<i>Fermi</i> -GBM	8	256	47-291	K, Me
bn090418816	GRB 090418C	19:35:24.9183	262.8	-28.2	14.4	<i>Fermi</i> -GBM	7	128	47-291	IA, W
bn090419997	GRB 090419B	23:55:05.0509	88.6	31.3	3.6	<i>Fermi</i> -GBM	15	2048	47-291	K, W
bn090422150	GRB 090422A	03:35:17.0668	294.7	40.4	0.0	<i>Swift</i>	10	512	47-291	S
bn090423330	GRB 090423A	07:55:25.3942	148.7	18.1	0.0	<i>Swift</i>	16	4096	47-291	S
bn090424592	GRB 090424A	14:12:08.6651	189.5	16.8	0.0	<i>Swift</i>	6	128	47-291	K, R, IA, S, Me, W, A
bn090425377	GRB 090425A	09:03:30.5674	118.6	68.1	2.1	<i>Fermi</i> -GBM	7	128	47-291	K, R, IA, W
bn090426066	GRB 090426B	01:35:35.2251	17.6	-19.2	18.1	<i>Fermi</i> -GBM	14	2048	47-291	
bn090426690	GRB 090426C	16:33:33.2023	82.7	-9.7	2.0	<i>Fermi</i> -GBM	9	256	47-291	K, A
bn090427644	GRB 090427B	15:27:00.8558	210.0	-45.7	11.8	<i>Fermi</i> -GBM	14	2048	47-291	IA
bn090427688	GRB 090427C	16:30:23.8089	356.2	-34.6	5.8	<i>Fermi</i> -GBM	12	1024	47-291	W
bn090428441	GRB 090428A	10:34:38.4630	210.1	39.5	4.2	<i>Fermi</i> -GBM	7	128	47-291	
bn090428552	GRB 090428B	13:15:11.0554	0.8	11.5	3.9	<i>Fermi</i> -GBM	36	2048	23-47	K, W
bn090429530	GRB 090429C	12:43:25.6998	260.0	54.3	4.8	<i>Fermi</i> -GBM	13	1024	47-291	K, IA
bn090429753	GRB 090429D	18:03:57.5120	125.2	6.2	4.6	<i>Fermi</i> -GBM	4	64	47-291	K, IA, S
bn090502777	GRB 090502A	18:39:34.6476	267.8	-20.3	7.4	<i>Fermi</i> -GBM	9	256	47-291	
bn090509215	GRB 090509A	05:10:05.7161	241.4	-28.4	0.0	<i>Swift</i>	15	2048	47-291	K, IA, S, W
bn090510016	GRB 090510A	00:22:59.9711	333.6	-26.6	0.0	<i>Swift</i>	1	16	47-291	Mo, K, IA, S, Me, W, A, L, ARR
bn090510325	GRB 090510B	07:47:39.5123	269.4	-57.9	11.6	<i>Fermi</i> -GBM	8	256	47-291	K
bn090511684	GRB 090511A	16:25:16.3719	161.9	51.3	7.0	<i>Fermi</i> -GBM	15	2048	47-291	K, IA
bn090513916	GRB 090513A	21:58:47.9205	269.8	-31.6	4.6	<i>Fermi</i> -GBM	15	2048	47-291	IA
bn090513941	GRB 090513B	22:35:35.3399	99.1	-72.9	8.8	<i>Fermi</i> -GBM	14	2048	47-291	
bn090514006	GRB 090514A	00:08:39.1570	12.3	-10.9	4.6	<i>Fermi</i> -GBM	10	512	47-291	K, Me, W
bn090514726	GRB 090514B	17:26:07.3322	304.3	-24.4	5.5	<i>Fermi</i> -GBM	9	256	47-291	K, IA, S, Me, W
bn090514734	GRB 090514C	17:36:55.2927	316.0	-44.0	15.2	<i>Fermi</i> -GBM	17	4096	47-291	
bn090516137	GRB 090516B	03:17:20.1691	122.2	-71.6	2.6	<i>Fermi</i> -GBM	15	2048	47-291	K, S, Me, W, A
bn090516353	GRB 090516A	08:27:58.3477	138.3	-11.9	0.0	<i>Swift</i>	17	4096	47-291	S
bn090516853	GRB 090516C	20:28:40.0468	15.7	-13.7	3.5	<i>Fermi</i> -GBM	5	64	47-291	K, IA, Me
bn090518080	GRB 090518A	01:54:44.5170	119.9	0.8	0.0	<i>Swift</i>	11	512	47-291	K, S
bn090518244	GRB 090518B	05:51:04.6687	211.2	-16.7	4.5	<i>Fermi</i> -GBM	6	128	47-291	K, IA, Me, W

Table 5—Continued

Trigger ID	GRB Name	Time (UT)	$\alpha$ ( $^\circ$ )	$\delta$ ( $^\circ$ )	Error ( $^\circ$ )	Location Source	Algorithm	Timescale (ms)	Energy (keV)	Other Detections <sup>a</sup> and/or ARRs
bn090519462	GRB 090519B	11:05:27.5445	105.9	-56.7	3.9	<i>Fermi</i> -GBM	13	1024	47-291	R
bn090519881	GRB 090519A	21:08:45.8729	142.3	0.2	0.0	<i>Swift</i>	15	2048	47-291	S
bn090520832	GRB 090520B	19:57:53.9759	332.0	43.2	12.0	<i>Fermi</i> -GBM	8	256	47-291	
bn090520850	GRB 090520C	20:23:19.3082	111.2	-19.7	1.2	<i>Fermi</i> -GBM	9	256	47-291	K, Me, W
bn090520876	GRB 090520D	21:01:37.1455	131.3	-18.0	4.3	<i>Fermi</i> -GBM	33	1024	23-47	
bn090522344	GRB 090522A	08:15:49.3265	277.7	19.6	4.9	<i>Fermi</i> -GBM	12	1024	47-291	K
bn090524346	GRB 090524A	08:17:56.2335	329.5	-67.4	1.3	<i>Fermi</i> -GBM	10	512	47-291	K, IA, Me
bn090528173	GRB 090528A	04:09:01.1410	134.9	-35.8	1.0	<i>Fermi</i> -GBM	15	2048	47-291	K, W
bn090528516	GRB 090528B	12:22:31.2864	312.2	32.7	1.0	<i>Fermi</i> -GBM	14	2048	47-291	K, IA, S, Me, W, A
bn090529310	GRB 090529B	07:26:22.4114	231.2	32.2	7.2	<i>Fermi</i> -GBM	8	256	47-291	K
bn090529564	GRB 090529C	13:32:00.4878	162.7	47.3	1.5	<i>Fermi</i> -GBM	4	64	47-291	Mo, K, IA, W, ARR
bn090530760	GRB 090530B	18:14:24.4343	73.2	13.8	1.0	<i>Fermi</i> -GBM	12	1024	47-291	K, IA, Me, W
bn090531775	GRB 090531B	18:35:56.4921	252.1	-36.0	0.0	<i>Swift</i>	5	64	47-291	IA, S, W, A, L
bn090602564	GRB 090602A	13:32:22.8543	248.9	-65.0	3.4	<i>Fermi</i> -GBM	11	512	47-291	K, IA, S, W
bn090606471	GRB 090606A	11:18:08.0027	146.9	-70.5	5.6	<i>Fermi</i> -GBM	15	2048	47-291	Me
bn090608052	GRB 090608A	01:15:26.5975	100.2	-37.4	4.5	<i>Fermi</i> -GBM	14	2048	47-291	
bn090610648	GRB 090610A	15:33:25.9360	84.2	35.4	5.2	<i>Fermi</i> -GBM	10	512	47-291	K, IA, S, Me, W, A
bn090610723	GRB 090610B	17:21:31.9045	276.0	-42.1	9.5	<i>Fermi</i> -GBM	17	4096	47-291	K
bn090610883	GRB 090610C	21:12:07.7336	70.4	30.3	8.2	<i>Fermi</i> -GBM	14	2048	47-291	
bn090612619	GRB 090612A	14:50:50.4940	81.0	17.7	2.2	<i>Fermi</i> -GBM	6	128	47-291	K, S, Me, A
bn090616157	GRB 090616A	03:45:42.5323	103.1	-3.7	10.4	<i>Fermi</i> -GBM	9	256	47-291	
bn090617208	GRB 090617A	04:59:58.5756	78.9	15.6	4.2	<i>Fermi</i> -GBM	1	16	47-291	K, IA, S, Me, W, A, ARR
bn090618353	GRB 090618A	08:28:26.6590	294.0	78.4	0.0	<i>Swift</i>	10	512	47-291	Mo, K, R, IA, S, W, A
bn090620400	GRB 090620A	09:36:23.4676	237.4	61.2	1.0	<i>Fermi</i> -GBM	8	256	47-291	Mo, K, R, IA, Me, A
bn090620901	GRB 090620B	21:37:35.7510	241.4	-43.0	8.3	<i>Fermi</i> -GBM	10	512	47-291	
bn090621185	GRB 090621A	04:26:34.4877	11.0	61.9	0.0	<i>Swift</i>	14	2048	47-291	
bn090621417	GRB 090621C	10:00:52.0963	257.5	-28.5	3.2	<i>Fermi</i> -GBM	15	2048	47-291	R
bn090621447	GRB 090621D	10:43:45.1445	12.3	-22.6	6.5	<i>Fermi</i> -GBM	12	1024	47-291	
bn090621922	GRB 090621B	22:07:25.7006	313.4	69.0	0.1	<i>Swift</i>	1	16	47-291	K, S
bn090623107	GRB 090623A	02:34:17.5618	309.0	-43.2	2.0	<i>Fermi</i> -GBM	4	64	47-291	Mo, K, IA, S, W



Table 5—Continued

Trigger ID	GRB Name	Time (UT)	$\alpha$ ( $^\circ$ )	$\delta$ ( $^\circ$ )	Error ( $^\circ$ )	Location Source	Algorithm	Timescale (ms)	Energy (keV)	Other Detections <sup>a</sup> and/or ARRs
bn090623913	GRB 090623B	21:54:25.1132	41.7	1.8	1.5	<i>Fermi</i> -GBM	10	512	47-291	K, W
bn090625234	GRB 090625A	05:37:00.2090	20.3	-6.4	3.1	<i>Fermi</i> -GBM	14	2048	47-291	IA
bn090625560	GRB 090625B	13:26:22.5142	2.3	-65.8	0.0	<i>Swift</i>	17	4096	47-291	K, IS, W
bn090626189	GRB 090626A	04:32:08.8802	170.0	-33.5	0.3	<i>Fermi</i> -LAT	11	512	47-291	Mo, K, R, IA, S, Me, W, L
bn090626707	GRB 090626B	16:58:45.4643	136.4	14.4	7.7	<i>Fermi</i> -GBM	12	1024	47-291	W
bn090629543	GRB 090629A	13:01:21.7834	8.5	17.7	7.4	<i>Fermi</i> -GBM	17	4096	47-291	
bn090630311	GRB 090630A	07:27:21.1663	146.6	-46.6	5.8	<i>Fermi</i> -GBM	8	256	47-291	
bn090701225	GRB 090701A	05:23:55.8438	114.7	-42.1	4.2	<i>Fermi</i> -GBM	12	1024	47-291	
bn090703329	GRB 090703A	07:54:02.4773	0.8	9.7	5.2	<i>Fermi</i> -GBM	13	1024	47-291	
bn090704242	GRB 090704A	05:47:48.1849	208.2	22.8	0.0	<i>INTEGRAL</i>	15	2048	47-291	R, IS
bn090704783	GRB 090704B	18:47:00.6224	296.4	25.9	6.3	<i>Fermi</i> -GBM	17	4096	47-291	K, IA
bn090706283	GRB 090706A	06:47:40.4279	205.1	-47.1	3.0	<i>Fermi</i> -GBM	17	4096	47-291	S
bn090708152	GRB 090708A	03:38:18.4565	154.6	26.6	0.1	<i>Swift</i>	17	4096	47-291	S
bn090709630	GRB 090709B	15:07:41.1367	93.6	64.1	0.1	<i>Swift</i>	12	1024	47-291	K, S
bn090711850	GRB 090711A	20:23:22.9192	139.6	-64.7	1.0	<i>Fermi</i> -GBM	13	1024	47-291	IA, W
bn090712160	GRB 090712A	03:51:00.3413	70.1	22.5	0.0	<i>Swift</i>	17	4096	47-291	K, S, W
bn090713020	GRB 090713A	00:29:28.0600	284.8	-3.3	2.4	<i>Fermi</i> -GBM	14	2048	47-291	K, W
bn090717034	GRB 090717A	00:49:32.1084	92.4	-62.5	1.2	<i>Fermi</i> -GBM	11	512	47-291	Mo, K, IA, S, W, A
bn090717111	GRB 090717B	02:40:31.7864	246.9	23.0	3.9	<i>Fermi</i> -GBM	8	256	47-291	IA, W, A
bn090718720	GRB 090718A	17:16:42.9331	243.8	-6.7	5.9	<i>Fermi</i> -GBM	14	2048	47-291	
bn090718762	GRB 090718B	18:17:42.8414	274.1	-36.4	1.2	<i>Fermi</i> -GBM	10	512	47-291	Mo, K, S
bn090719063	GRB 090719A	01:31:26.6117	341.3	-67.9	1.0	<i>Fermi</i> -GBM	6	128	47-291	Mo, K, A
bn090720276	GRB 090720A	06:38:08.2827	199.5	-16.4	5.0	<i>Fermi</i> -GBM	7	128	47-291	K, R, IA, S
bn090720710	GRB 090720B	17:02:56.9051	203.0	-54.8	2.9	<i>Fermi</i> -GBM	1	16	47-291	K, IA, W, A, L, ARR
bn090725838	GRB 090725A	20:06:20.5520	281.9	-69.5	6.6	<i>Fermi</i> -GBM	17	4096	47-291	
bn090726218	GRB 090726B	05:14:07.0692	240.4	36.8	7.1	<i>Fermi</i> -GBM	13	1024	47-291	W
bn090730608	GRB 090730A	14:35:07.6683	252.6	30.5	3.7	<i>Fermi</i> -GBM	9	256	47-291	K
bn090802235	GRB 090802A	05:39:03.0822	84.3	34.1	3.9	<i>Fermi</i> -GBM	1	16	47-291	K, R, IA, S, A
bn090802666	GRB 090802B	15:58:23.4438	267.0	-71.8	10.7	<i>Fermi</i> -GBM	12	1024	47-291	
bn090804940	GRB 090804A	22:33:20.0192	130.4	-11.3	1.0	<i>Fermi</i> -GBM	4	64	47-291	K, IA, S, Me, W

Table 5—Continued

Trigger ID	GRB Name	Time (UT)	$\alpha$ ( $^{\circ}$ )	$\delta$ ( $^{\circ}$ )	Error ( $^{\circ}$ )	Location Source	Algorithm	Timescale (ms)	Energy (keV)	Other Detections <sup>a</sup> and/or ARRs
bn090805622	GRB 090805A	14:55:18.2387	300.0	-50.8	11.0	<i>Fermi</i> -GBM	12	1024	47-291	
bn090807832	GRB 090807B	19:57:59.0173	326.9	7.2	2.6	<i>Fermi</i> -GBM	25	64	23-47	S
bn090809978	GRB 090809B	23:28:14.6113	95.2	0.2	1.2	<i>Fermi</i> -GBM	15	2048	47-291	K, R, IA, Me, A
bn090810659	GRB 090810A	15:49:07.8220	168.9	-76.4	5.5	<i>Fermi</i> -GBM	14	2048	47-291	K, W
bn090810781	GRB 090810B	18:44:44.8577	116.4	-17.5	2.8	<i>Fermi</i> -GBM	12	1024	47-291	K
bn090811696	GRB 090811A	16:41:50.0382	277.0	22.2	7.5	<i>Fermi</i> -GBM	6	128	47-291	K, Me
bn090813174	GRB 090813A	04:10:42.5926	225.8	88.6	0.0	<i>Swift</i>	8	256	47-291	Mo, K, IA, S, W, ARR
bn090814368	GRB 090814C	08:49:41.2219	332.5	58.9	5.5	<i>Fermi</i> -GBM	4	64	47-291	K, IA, Me, A
bn090814950	GRB 090814D	22:47:28.7773	307.6	45.7	2.1	<i>Fermi</i> -GBM	16	4096	47-291	K, S, Me
bn090815300	GRB 090815A	07:12:12.4482	41.0	-2.7	7.8	<i>Fermi</i> -GBM	15	2048	47-291	IA
bn090815438	GRB 090815B	10:30:41.8488	21.4	53.4	5.7	<i>Fermi</i> -GBM	15	2048	47-291	K
bn090815946	GRB 090815D	22:41:46.5997	251.3	52.9	2.3	<i>Fermi</i> -GBM	17	4096	47-291	S
bn090817036	GRB 090817A	00:51:26.2058	64.0	44.1	0.0	<i>INTEGRAL</i>	9	256	47-291	K, IS, S, W
bn090819607	GRB 090819A	14:34:27.4683	49.1	-67.1	3.3	<i>Fermi</i> -GBM	4	64	47-291	IA
bn090820027	GRB 090820A	00:38:16.1887	87.7	27.1	1.0	<i>Fermi</i> -GBM	8	256	47-291	K, R, IA, S, W, A, ARR
bn090820509	GRB 090820B	12:13:16.7003	318.3	-18.6	9.6	<i>Fermi</i> -GBM	9	256	47-291	
bn090823133	GRB 090823B	03:10:53.7641	49.5	-17.6	10.4	<i>Fermi</i> -GBM	12	1024	47-291	S
bn090824918	GRB 090824A	22:02:19.1051	46.7	59.8	12.2	<i>Fermi</i> -GBM	36	2048	23-47	K
bn090826068	GRB 090826A	01:37:31.8544	140.6	-0.1	9.7	<i>Fermi</i> -GBM	12	1024	47-291	W
bn090828099	GRB 090828A	02:22:48.1994	124.4	-26.1	1.2	<i>Fermi</i> -GBM	15	2048	47-291	K, IA, S, Me, W, A
bn090829672	GRB 090829A	16:07:38.8640	329.2	-34.2	1.0	<i>Fermi</i> -GBM	12	1024	47-291	Mo, K, S, Me, W, A, ARR
bn090829702	GRB 090829B	16:50:40.1331	355.0	-9.4	3.2	<i>Fermi</i> -GBM	13	1024	47-291	R, Me
bn090831317	GRB 090831A	07:36:36.5826	145.1	51.0	1.9	<i>Fermi</i> -GBM	1	16	47-291	K, IA, W, M
bn090902401	GRB 090902A	09:38:05.4940	291.0	53.1	3.8	<i>Fermi</i> -GBM	8	256	47-291	IA, S, W
bn090902462	GRB 090902B	11:05:08.3127	264.9	27.3	0.0	<i>Swift</i>	6	128	47-291	R, IA, S, W, L, ARR
bn090904058	GRB 090904B	01:24:13.9373	264.2	-25.2	0.1	<i>Swift</i>	12	1024	47-291	K, IA, S, W
bn090904581	GRB 090904C	13:57:17.1254	261.6	4.6	2.5	<i>Fermi</i> -GBM	10	512	47-291	K, W
bn090907017	GRB 090907A	00:24:09.7163	86.3	-38.8	2.1	<i>Fermi</i> -GBM	12	1024	47-291	
bn090907808	GRB 090907B	19:23:47.4742	81.1	20.5	4.1	<i>Fermi</i> -GBM	5	64	47-291	K
bn090908314	GRB 090908A	07:31:52.0875	282.2	3.5	8.0	<i>Fermi</i> -GBM	17	4096	47-291	K

Table 5—Continued

Trigger ID	GRB Name	Time (UT)	$\alpha$ ( $^{\circ}$ )	$\delta$ ( $^{\circ}$ )	Error ( $^{\circ}$ )	Location Source	Algorithm	Timescale (ms)	Energy (keV)	Other Detections <sup>a</sup> and/or ARRs
bn090908341	GRB 090908B	08:10:39.8143	174.1	-25.1	4.6	<i>Fermi</i> -GBM	9	256	47-291	K, IA, S, Me
bn090909487	GRB 090909A	11:41:17.1795	32.3	53.9	8.1	<i>Fermi</i> -GBM	13	1024	47-291	K, W
bn090909854	GRB 090909B	20:29:52.7396	54.2	-25.0	8.3	<i>Fermi</i> -GBM	5	64	47-291	IA
bn090910812	GRB 090910A	19:29:48.8069	296.2	72.3	1.0	<i>Fermi</i> -GBM	12	1024	47-291	K, Me
bn090912660	GRB 090912A	15:50:29.1033	188.0	61.5	0.0	<i>Swift</i>	12	1024	47-291	K, S, W
bn090915650	GRB 090915A	15:35:35.6511	238.0	15.5	0.0	<i>Swift</i>	13	1024	47-291	K, S, W
bn090917661	GRB 090917A	15:51:38.9418	230.3	-11.7	5.9	<i>Fermi</i> -GBM	8	256	47-291	W, ARR
bn090920035	GRB 090920A	00:49:59.0621	299.7	-52.2	5.7	<i>Fermi</i> -GBM	18	8192	47-291	K
bn090922539	GRB 090922A	12:56:42.1373	17.2	74.3	1.0	<i>Fermi</i> -GBM	12	1024	47-291	K, R, Me, W, A, ARR
bn090922605	GRB 090922B	14:30:41.5287	38.4	-73.1	3.3	<i>Fermi</i> -GBM	4	64	47-291	K, R, Me, W
bn090924625	GRB 090924A	14:59:54.0113	69.7	-65.0	7.1	<i>Fermi</i> -GBM	5	64	47-291	IA, ARR
bn090925389	GRB 090925A	09:20:33.6723	333.2	14.3	4.4	<i>Fermi</i> -GBM	15	2048	47-291	K, R, Me, W
bn090926181	GRB 090926A	04:20:26.9865	353.4	-66.3	0.0	<i>Swift</i>	8	256	47-291	Mo, K, R, IA, S, Me, W, $\mathcal{A}$ , L, ARR
bn090926914	GRB 090926B	21:55:28.5250	46.3	-39.0	0.1	<i>Swift</i>	13	1024	47-291	K, S, Me, M
bn090927422	GRB 090927A	10:07:17.2136	344.0	-71.0	0.1	<i>Swift</i>	6	128	47-291	IA, S, W
bn090928646	GRB 090928A	15:29:44.6648	103.9	-43.5	8.9	<i>Fermi</i> -GBM	8	256	47-291	K, Me, W
bn090929190	GRB 090929A	04:33:03.9663	51.7	-7.3	1.3	<i>Fermi</i> -GBM	2	32	47-291	K, R, IA, S, W
bn091002685	GRB 091002A	16:26:11.1643	41.9	-14.0	4.2	<i>Fermi</i> -GBM	8	256	47-291	
bn091003191	GRB 091003A	04:35:45.5846	251.5	36.6	0.0	<i>Swift</i>	6	128	47-291	K, IA, S, Me, W, A, L, ARR
bn091005679	GRB 091005A	16:17:30.4905	43.1	12.1	5.1	<i>Fermi</i> -GBM	12	1024	47-291	
bn091006360	GRB 091006A	08:38:46.9285	243.1	-31.0	12.9	<i>Fermi</i> -GBM	8	256	47-291	
bn091010113	GRB 091010A	02:43:09.3213	298.7	-22.5	0.1	<i>AGILE</i>	30	256	23-47	K, X, IA, Me, W, A, ARR
bn091012783	GRB 091012A	18:47:02.7698	109.4	87.3	2.5	<i>Fermi</i> -GBM	4	64	47-291	K, IA, S, W, A
bn091015129	GRB 091015B	03:05:42.9372	316.1	-49.5	12.6	<i>Fermi</i> -GBM	35	2048	23-47	
bn091017861	GRB 091017A	20:40:24.2971	210.8	25.5	8.5	<i>Fermi</i> -GBM	12	1024	47-291	W
bn091017985	GRB 091017B	23:38:57.4707	214.4	-64.7	1.7	<i>Fermi</i> -GBM	14	2048	47-291	W
bn091018957	GRB 091018B	22:58:20.6027	321.8	-23.1	13.1	<i>Fermi</i> -GBM	5	64	47-291	IA
bn091019750	GRB 091019A	18:00:40.8812	226.0	80.3	12.8	<i>Fermi</i> -GBM	2	32	47-291	
bn091020900	GRB 091020A	21:36:43.8167	175.7	51.0	0.0	<i>Swift</i>	8	256	47-291	Mo, K, IA, S
bn091020977	GRB 091020B	23:26:34.4485	187.8	-13.4	2.2	<i>Fermi</i> -GBM	5	64	47-291	Mo, K, S

Table 5—Continued

Trigger ID	GRB Name	Time (UT)	$\alpha$ ( $^{\circ}$ )	$\delta$ ( $^{\circ}$ )	Error ( $^{\circ}$ )	Location Source	Algorithm	Timescale (ms)	Energy (keV)	Other Detections <sup>a</sup> and/or ARR
bn091023021	GRB 091023A	00:29:44.5452	215.4	26.0	7.2	<i>Fermi</i> -GBM	11	512	47-291	W
bn091024372 <sup>b</sup>	GRB 091024A	08:55:58.4721	339.3	56.9	0.0	<i>Swift</i>	11	512	47-291	K, R, IA, S, ARR
bn091024380 <sup>b</sup>	GRB 091024A	09:06:29.3574	339.3	56.9	0.0	<i>Swift</i>	16	4096	47-291	
bn091026485	GRB 091026B	11:38:48.5224	137.1	-23.6	8.1	<i>Fermi</i> -GBM	12	1024	47-291	K, W
bn091026550	GRB 091026A	13:11:33.0196	276.6	-86.1	0.0	<i>Swift</i>	16	4096	47-291	K, IA, S
bn091030613	GRB 091030B	14:43:16.4358	249.0	23.5	5.6	<i>Fermi</i> -GBM	10	512	47-291	K, W
bn091030828	GRB 091030A	19:52:26.8633	41.7	21.5	1.2	<i>Fermi</i> -GBM	9	256	47-291	K, R, W
bn091031500	GRB 091031A	12:00:28.8460	70.6	-59.1	1.0	<i>Fermi</i> -GBM	8	256	47-291	Mo, K, S, W, L
bn091101143	GRB 091101A	03:26:32.4886	29.8	-33.7	2.2	<i>Fermi</i> -GBM	8	256	47-291	K, R, W
bn091102607	GRB 091102A	14:34:38.3625	72.6	-72.5	0.0	<i>Swift</i>	11	512	47-291	K, S, W
bn091103912	GRB 091103A	21:53:51.4847	170.6	11.3	2.4	<i>Fermi</i> -GBM	8	256	47-291	K, W
bn091106762	GRB 091106A	18:17:12.8908	49.1	60.3	5.6	<i>Fermi</i> -GBM	15	2048	47-291	K
bn091107635	GRB 091107A	15:13:59.6296	182.4	38.9	4.5	<i>Fermi</i> -GBM	10	512	47-291	K, W
bn091109895	GRB 091109C	21:28:40.0122	247.7	42.3	4.1	<i>Fermi</i> -GBM	8	256	47-291	K, W
bn091112737	GRB 091112A	17:41:15.8218	257.7	-36.7	0.1	<i>Swift</i>	10	512	47-291	K, S, W
bn091112928	GRB 091112B	22:15:51.1902	208.4	37.2	4.5	<i>Fermi</i> -GBM	11	512	47-291	K
bn091115177	GRB 091115A	04:14:50.4195	307.8	71.5	7.9	<i>Fermi</i> -GBM	17	4096	47-291	K
bn091117080	GRB 091117B	01:55:24.8969	246.5	-73.9	6.8	<i>Fermi</i> -GBM	17	4096	47-291	
bn091120191	GRB 091120A	04:34:40.2297	226.8	-21.8	0.5	MAXI	6	128	47-291	Mo, K, R, IA, A, M, ARR
bn091122163	GRB 091122A	03:54:20.3750	110.9	0.6	18.0	<i>Fermi</i> -GBM	10	512	47-291	IA
bn091123081	GRB 091123B	01:55:59.7529	337.8	13.4	5.9	<i>Fermi</i> -GBM	10	512	47-291	K, IA
bn091123298	GRB 091123A	07:08:37.2603	297.1	-29.2	2.4	<i>Fermi</i> -GBM	14	2048	47-291	K, IA, W, A
bn091126333	GRB 091126A	07:59:24.7624	83.2	-19.3	5.4	<i>Fermi</i> -GBM	1	16	47-291	K, IA, W
bn091126389	GRB 091126B	09:19:48.5326	47.4	31.5	14.3	<i>Fermi</i> -GBM	1	16	47-291	IA
bn091127976	GRB 091127A	23:25:45.4830	36.6	-19.0	0.0	<i>Swift</i>	4	64	47-291	Mo, K, R, IA, S, W, ARR
bn091128285	GRB 091128A	06:50:34.6410	127.7	1.7	1.4	<i>Fermi</i> -GBM	11	512	47-291	K, R, IA, A
bn091201089	GRB 091201A	02:07:32.9477	27.8	11.9	11.4	<i>Fermi</i> -GBM	17	4096	47-291	
bn091202072	GRB 091202B	01:44:06.5285	257.5	-1.9	12.1	<i>Fermi</i> -GBM	10	512	47-291	K, W
bn091202219	GRB 091202C	05:15:42.6582	13.9	9.1	5.8	<i>Fermi</i> -GBM	15	2048	47-291	S
bn091207333	GRB 091207A	08:00:10.1058	12.7	-50.2	1.6	<i>Fermi</i> -GBM	8	256	47-291	K, IA

Table 5—Continued

Trigger ID	GRB Name	Time (UT)	$\alpha$ ( $^{\circ}$ )	$\delta$ ( $^{\circ}$ )	Error ( $^{\circ}$ )	Location Source	Algorithm	Timescale (ms)	Energy (keV)	Other Detections <sup>a</sup> and/or ARRs
bn091208410	GRB 091208B	09:49:57.9560	29.4	16.9	0.0	<i>Swift</i>	9	256	47-291	K, R, IA, S, L, ARR
bn091209001	GRB 091209A	00:00:44.8977	261.0	38.3	2.9	<i>Fermi</i> -GBM	14	2048	47-291	K
bn091215234	GRB 091215A	05:37:26.8650	283.2	17.5	9.8	<i>Fermi</i> -GBM	12	1024	47-291	K
bn091219462	GRB 091219A	11:04:45.4947	294.5	71.9	5.4	<i>Fermi</i> -GBM	9	256	47-291	K, W
bn091220442	GRB 091220A	10:36:50.6362	166.8	4.8	1.8	<i>Fermi</i> -GBM	8	256	47-291	K, W
bn091221870	GRB 091221A	20:52:57.2170	55.8	23.2	0.0	<i>Swift</i>	17	4096	47-291	Mo, K, R, IA, S, Me, W
bn091223191	GRB 091223A	04:35:10.3547	203.2	76.3	8.9	<i>Fermi</i> -GBM	9	256	47-291	IA, S
bn091223511	GRB 091223B	12:15:53.6895	231.3	54.7	2.4	<i>Fermi</i> -GBM	14	2048	47-291	K, S
bn091224373	GRB 091224A	08:57:36.5574	331.2	18.3	15.6	<i>Fermi</i> -GBM	5	64	47-291	
bn091227294	GRB 091227A	07:03:13.3858	296.9	2.6	3.6	<i>Fermi</i> -GBM	8	256	47-291	Mo, K, Me
bn091230260	GRB 091230B	06:14:09.3592	101.5	0.7	18.0	<i>Fermi</i> -GBM	17	4096	47-291	
bn091230712	GRB 091230C	17:05:14.0175	51.7	77.2	5.1	<i>Fermi</i> -GBM	12	1024	47-291	K
bn091231206	GRB 091231A	04:56:33.4876	199.4	-60.7	1.7	<i>Fermi</i> -GBM	13	1024	47-291	K, S, Me
bn091231540	GRB 091231B	12:57:48.5805	241.3	3.3	12.6	<i>Fermi</i> -GBM	17	4096	47-291	
bn100101028	GRB 100101A	00:39:49.3357	307.3	-27.0	17.4	<i>Fermi</i> -GBM	8	256	47-291	IA
bn100101988	GRB 100101B	23:42:15.1827	70.7	18.7	9.3	<i>Fermi</i> -GBM	10	512	47-291	Mo, IA, S
bn100107074	GRB 100107A	01:46:31.8646	6.3	-21.2	6.0	<i>Fermi</i> -GBM	4	64	47-291	IA
bn100111176	GRB 100111A	04:12:49.6954	247.0	15.6	0.0	<i>Swift</i>	10	512	47-291	Mo, K, IA, S, W
bn100112418	GRB 100112A	10:01:17.5551	240.1	-75.1	14.8	<i>Fermi</i> -GBM	17	4096	47-291	
bn100116897	GRB 100116A	21:31:00.2421	305.0	14.4	0.3	<i>Fermi</i> -LAT	6	128	47-291	K, R, IA, Me, W, L
bn100117879	GRB 100117A	21:06:19.6634	11.3	-1.6	0.1	<i>Swift</i>	4	64	47-291	IA, S
bn100118100	GRB 100118A	02:23:33.6983	9.3	-37.4	5.9	<i>Fermi</i> -GBM	14	2048	47-291	K, R, IA, Me, W
bn100122616	GRB 100122A	14:47:37.3141	79.2	-2.7	1.3	<i>Fermi</i> -GBM	14	2048	47-291	Mo, K, R, IA, Me, ARR
bn100126460	GRB 100126A	11:03:05.1248	338.4	-18.7	18.3	<i>Fermi</i> -GBM	13	1024	47-291	S
bn100130729	GRB 100130A	17:29:24.1447	21.2	-24.8	2.5	<i>Fermi</i> -GBM	16	4096	47-291	K, IA, W
bn100130777	GRB 100130B	18:38:35.4634	78.6	20.8	2.4	<i>Fermi</i> -GBM	14	2048	47-291	Mo, K, R, Me, W
bn100131730	GRB 100131A	17:30:57.6702	120.4	16.5	1.2	<i>Fermi</i> -GBM	6	128	47-291	Mo, K, IA, S, Me, W, ARR
bn100201588	GRB 100201A	14:06:17.5047	133.1	-37.3	4.3	<i>Fermi</i> -GBM	17	4096	47-291	K, IA
bn100204024	GRB 100204A	00:33:53.5451	50.8	-47.9	3.0	<i>Fermi</i> -GBM	15	2048	47-291	K, W
bn100204566	GRB 100204B	13:34:43.3753	273.1	-52.8	5.7	<i>Fermi</i> -GBM	17	4096	47-291	W

Table 5—Continued

Trigger ID	GRB Name	Time (UT)	$\alpha$ ( $^\circ$ )	$\delta$ ( $^\circ$ )	Error ( $^\circ$ )	Location Source	Algorithm	Timescale (ms)	Energy (keV)	Other Detections <sup>a</sup> and/or ARRs
bn100204858	GRB 100204C	20:36:03.7668	91.3	-20.9	16.6	<i>Fermi</i> -GBM	9	256	47-291	
bn100205490	GRB 100205B	11:45:38.2585	133.9	-23.0	8.2	<i>Fermi</i> -GBM	13	1024	47-291	K, R, IA, Me
bn100206563	GRB 100206A	13:30:05.3902	47.2	13.2	0.0	<i>Swift</i>	1	16	47-291	K, IA, S, W, ARR
bn100207665	GRB 100207A	15:57:54.7648	307.9	-27.7	4.7	<i>Fermi</i> -GBM	14	2048	47-291	K, W
bn100207721	GRB 100207B	17:18:29.7243	321.8	-15.8	1.0	<i>Fermi</i> -GBM	17	4096	47-291	
bn100208386	GRB 100208A	09:15:33.9419	260.2	27.5	29.3	<i>Fermi</i> -GBM	4	64	47-291	IA
bn100210101	GRB 100210A	02:24:49.4680	244.4	16.1	6.1	<i>Fermi</i> -GBM	13	1024	47-291	K
bn100211440	GRB 100211A	10:33:35.1692	132.2	29.5	2.5	<i>Fermi</i> -GBM	17	4096	47-291	Mo, K, R, Me, W
bn100212550	GRB 100212B	13:11:45.4691	134.3	32.2	1.4	<i>Fermi</i> -GBM	4	64	47-291	K, IA, Me, A
bn100212588	GRB 100212A	14:07:22.2949	1.8	46.0	5.0	<i>Fermi</i> -GBM	10	512	47-291	S
bn100216422	GRB 100216A	10:07:00.1874	154.3	35.5	0.0	<i>Swift</i>	4	64	47-291	S
bn100218194	GRB 100218A	04:38:45.9326	206.6	-11.9	2.2	<i>Fermi</i> -GBM	16	4096	47-291	K
bn100219026	GRB 100219B	00:37:14.7600	330.9	37.8	2.9	<i>Fermi</i> -GBM	8	256	47-291	K
bn100221368	GRB 100221A	08:50:26.4858	27.1	-17.4	8.0	<i>Fermi</i> -GBM	14	2048	47-291	
bn100223110	GRB 100223A	02:38:09.3064	104.5	3.7	7.8	<i>Fermi</i> -GBM	1	16	47-291	Mo, K, IA, S, Me, W, A
bn100224112	GRB 100224B	02:40:55.4771	269.6	-17.1	1.6	<i>Fermi</i> -GBM	15	2048	47-291	Mo, K, IA, S, Me, W
bn100225115	GRB 100225A	02:45:31.1468	310.3	-59.4	0.9	<i>Fermi</i> -LAT	8	256	47-291	K, IA, S, Me, W, L
bn100225249	GRB 100225B	05:59:05.4719	352.9	15.0	18.8	<i>Fermi</i> -GBM	17	4096	47-291	W
bn100225580	GRB 100225C	13:55:31.3431	314.3	0.2	1.1	<i>Fermi</i> -GBM	13	1024	47-291	K, Me, W
bn100225703	GRB 100225D	16:52:18.1160	147.9	34.0	3.9	<i>Fermi</i> -GBM	10	512	47-291	Mo, K, Me, W
bn100228544	GRB 100228A	13:02:41.2829	199.8	15.6	9.3	<i>Fermi</i> -GBM	17	4096	47-291	
bn100228873	GRB 100228B	20:57:47.6684	118.0	18.6	11.1	<i>Fermi</i> -GBM	14	2048	47-291	
bn100301068	GRB 100301A	01:37:18.6335	110.1	-15.7	7.3	<i>Fermi</i> -GBM	2	32	47-291	
bn100301223	GRB 100301B	05:21:46.1881	201.9	19.8	4.9	<i>Fermi</i> -GBM	8	256	47-291	K
bn100304004	GRB 100304A	00:05:20.7140	76.2	60.5	3.3	<i>Fermi</i> -GBM	12	1024	47-291	K, W
bn100304534	GRB 100304B	12:48:18.5604	260.1	-21.9	2.5	<i>Fermi</i> -GBM	15	2048	47-291	K
bn100306199	GRB 100306A	04:46:25.7418	216.0	-29.4	17.1	<i>Fermi</i> -GBM	16	4096	47-291	
bn100307928	GRB 100307A	22:16:30.2268	129.4	33.0	4.1	<i>Fermi</i> -GBM	10	512	47-291	
bn100311518	GRB 100311A	12:25:54.1120	303.4	-27.8	5.0	<i>Fermi</i> -GBM	13	1024	47-291	K
bn100313288	GRB 100313A	06:54:23.2203	172.7	-52.6	2.9	<i>Fermi</i> -GBM	10	512	47-291	Mo, K, Me

Table 5—Continued

Trigger ID	GRB Name	Time (UT)	$\alpha$ ( $^{\circ}$ )	$\delta$ ( $^{\circ}$ )	Error ( $^{\circ}$ )	Location Source	Algorithm	Timescale (ms)	Energy (keV)	Other Detections <sup>a</sup> and/or ARRs
bn100313509	GRB 100313B	12:12:17.2943	186.4	11.7	9.6	<i>Fermi</i> -GBM	16	4096	47-291	
bn100315361	GRB 100315A	08:39:12.7417	208.9	30.1	5.5	<i>Fermi</i> -GBM	16	4096	47-291	
bn100318611	GRB 100318A	14:39:24.6047	211.0	21.2	10.7	<i>Fermi</i> -GBM	13	1024	47-291	
bn100322045	GRB 100322A	01:05:09.6426	23.3	-10.2	1.2	<i>Fermi</i> -GBM	10	512	47-291	K, IA, Me, W
bn100323542	GRB 100323A	13:00:44.7544	188.9	-18.7	4.2	<i>Fermi</i> -GBM	14	2048	47-291	K, W
bn100324172	GRB 100324B	04:07:36.4874	39.7	-19.3	0.1	IPN	4	64	47-291	Mo, K, Me, W
bn100325246	GRB 100325B	05:54:43.9487	209.1	-79.1	7.2	<i>Fermi</i> -GBM	11	512	47-291	S
bn100325275	GRB 100325A	06:36:08.0232	330.2	-26.5	0.9	<i>Fermi</i> -LAT	9	256	47-291	K, IA, S, Me, L
bn100326294	GRB 100326A	07:03:05.5029	131.2	-28.2	12.6	<i>Fermi</i> -GBM	9	256	47-291	S, A
bn100326402	GRB 100326B	09:38:20.0441	314.7	0.5	2.4	<i>Fermi</i> -GBM	12	1024	47-291	K, Me
bn100328141	GRB 100328A	03:22:44.6049	155.9	47.0	4.8	<i>Fermi</i> -GBM	5	64	47-291	
bn100330309	GRB 100330A	07:24:51.7257	202.1	-0.9	2.5	<i>Fermi</i> -GBM	8	256	47-291	K, Me
bn100330856	GRB 100330B	20:32:48.2692	326.4	-7.0	7.7	<i>Fermi</i> -GBM	12	1024	47-291	
bn100401297	GRB 100401A	07:07:32.2415	290.8	-8.3	0.0	<i>Swift</i>	9	256	47-291	S, W
bn100406758	GRB 100406A	18:11:25.7765	77.8	26.9	6.5	<i>Fermi</i> -GBM	10	512	47-291	
bn100410356	GRB 100410A	08:31:57.4695	130.0	21.5	10.8	<i>Fermi</i> -GBM	17	4096	47-291	
bn100410740	GRB 100410B	17:45:46.6619	78.1	61.3	1.7	<i>Fermi</i> -GBM	10	512	47-291	Mo, K, S, Me, W
bn100411516	GRB 100411A	12:22:57.3442	210.6	47.9	31.6	<i>Fermi</i> -GBM	4	64	47-291	
bn100413732	GRB 100413A	17:33:31.9243	266.2	15.8	0.0	<i>Swift</i>	14	2048	47-291	K, IA, S, Me, W
bn100414097	GRB 100414A	02:20:21.9864	192.1	8.7	0.0	<i>Swift</i>	8	256	47-291	Mo, K, Me, W, L, ARR
bn100417166	GRB 100417A	03:59:43.7283	261.3	50.4	9.2	<i>Fermi</i> -GBM	1	16	47-291	
bn100417789	GRB 100417B	18:55:40.2857	295.8	9.8	9.4	<i>Fermi</i> -GBM	16	4096	47-291	
bn100420008	GRB 100420B	00:12:06.5986	120.6	-5.8	2.8	<i>Fermi</i> -GBM	8	256	47-291	K, W
bn100421917	GRB 100421A	21:59:48.3903	350.7	-25.7	2.4	<i>Fermi</i> -GBM	16	4096	47-291	K, Me, W
bn100423244	GRB 100423B	05:51:25.7503	119.7	5.8	1.5	<i>Fermi</i> -GBM	14	2048	47-291	Mo, K, Me, A
bn100424729	GRB 100424B	17:30:10.1284	246.7	-48.9	4.1	<i>Fermi</i> -GBM	13	1024	47-291	W
bn100424876	GRB 100424C	21:01:52.5901	7.8	43.3	2.4	<i>Fermi</i> -GBM	15	2048	47-291	K, IA, Me, W
bn100427356	GRB 100427A	08:32:08.7061	89.2	-3.5	0.4	<i>Swift</i>	12	1024	47-291	K, S, Me, W
bn100429999	GRB 100429A	23:59:51.6396	89.1	-70.0	4.0	<i>Fermi</i> -GBM	12	1024	47-291	IA, W
bn100502356	GRB 100502A	08:33:02.9425	131.0	18.4	2.2	<i>Fermi</i> -GBM	13	1024	47-291	K, Me, W

Table 5—Continued

Trigger ID	GRB Name	Time (UT)	$\alpha$ ( $^{\circ}$ )	$\delta$ ( $^{\circ}$ )	Error ( $^{\circ}$ )	Location Source	Algorithm	Timescale (ms)	Energy (keV)	Other Detections <sup>a</sup> and/or ARRs
bn100503554	GRB 100503A	13:18:03.8897	147.5	4.0	1.5	<i>Fermi</i> -GBM	16	4096	47-291	K, R, IA, Me
bn100504806	GRB 100504A	19:20:55.5358	255.6	-35.6	0.0	<i>Swift</i>	17	4096	47-291	S
bn100506653	GRB 100506A	15:39:49.2949	82.5	59.2	5.0	<i>Fermi</i> -GBM	14	2048	47-291	K, R, W
bn100507577	GRB 100507A	13:51:15.7277	2.9	-79.0	2.5	<i>Fermi</i> -GBM	11	512	47-291	K, R
bn100510810	GRB 100510A	19:27:06.9690	355.8	-35.6	0.1	<i>MAXI</i>	15	2048	47-291	R, M
bn100511035	GRB 100511A	00:49:56.2302	109.3	-4.7	1.0	<i>Fermi</i> -GBM	11	512	47-291	K, R, Me, ARR
bn100513879	GRB 100513B	21:05:57.6687	321.0	22.2	2.5	<i>Fermi</i> -GBM	13	1024	47-291	R, IA
bn100515467	GRB 100515A	11:13:09.0369	275.5	27.0	2.2	<i>Fermi</i> -GBM	9	256	47-291	Mo, K, R, IA, W
bn100516369	GRB 100516A	08:50:41.0629	274.4	-8.2	18.4	<i>Fermi</i> -GBM	4	64	47-291	IA
bn100516396	GRB 100516B	09:30:38.3170	297.7	18.7	13.7	<i>Fermi</i> -GBM	8	256	47-291	
bn100517072	GRB 100517B	01:43:08.1081	100.9	-29.0	3.8	<i>Fermi</i> -GBM	25	64	23-47	R, S
bn100517132	GRB 100517C	03:09:50.1229	40.6	-44.3	5.2	<i>Fermi</i> -GBM	8	256	47-291	W
bn100517154	GRB 100517D	03:42:08.0552	243.6	-10.4	4.2	<i>Fermi</i> -GBM	5	64	47-291	Me
bn100517243	GRB 100517E	05:49:52.1020	10.4	4.4	11.8	<i>Fermi</i> -GBM	12	1024	47-291	W
bn100517639	GRB 100517F	15:19:58.0246	52.7	-71.9	2.1	<i>Fermi</i> -GBM	11	512	47-291	K, R, W
bn100519204	GRB 100519A	04:53:22.7069	191.5	57.4	1.0	<i>Fermi</i> -GBM	10	512	47-291	Mo, K, Me
bn100522157	GRB 100522A	03:45:52.2937	7.0	9.4	0.0	<i>Swift</i>	7	128	47-291	K, R, IA, S, W
bn100525744	GRB 100525A	17:51:25.0814	251.8	41.0	3.5	<i>Fermi</i> -GBM	4	64	47-291	S, W
bn100527795	GRB 100527A	19:04:37.2416	226.8	19.8	1.9	<i>Fermi</i> -GBM	17	4096	47-291	K, Me, W
bn100528075	GRB 100528A	01:48:01.1097	311.1	27.8	0.1	<i>AGILE</i>	12	1024	47-291	Mo, K, IA, Me, W, A, ARR
bn100530737	GRB 100530A	17:41:51.2263	289.7	31.0	11.6	<i>Fermi</i> -GBM	12	1024	47-291	K
bn100604287	GRB 100604A	06:53:34.8147	248.3	-73.2	3.6	<i>Fermi</i> -GBM	13	1024	47-291	K, IA, Me, W
bn100605774	GRB 100605A	18:35:10.7438	273.4	-67.6	7.7	<i>Fermi</i> -GBM	13	1024	47-291	
bn100608382	GRB 100608A	09:10:06.3394	30.5	20.5	5.3	<i>Fermi</i> -GBM	17	4096	47-291	
bn100609783	GRB 100609A	18:48:11.3268	90.5	42.8	2.5	<i>Fermi</i> -GBM	14	2048	47-291	Mo, K
bn100612545	GRB 100612A	13:04:21.6560	63.5	13.7	2.7	<i>Fermi</i> -GBM	5	64	47-291	K, A
bn100612726	GRB 100612B	17:26:06.1270	352.0	-1.8	1.6	<i>Fermi</i> -GBM	8	256	47-291	Mo, K, S, Me, W, A
bn100614498	GRB 100614B	11:57:23.3061	224.8	40.9	3.0	<i>Fermi</i> -GBM	16	4096	47-291	W
bn100615083	GRB 100615A	01:59:04.3714	177.2	-19.5	0.0	<i>Swift</i>	9	256	47-291	K, IA, S, Me, W
bn100616773	GRB 100616A	18:32:32.8957	342.9	3.1	45.7	<i>Fermi</i> -GBM	9	256	47-291	



Table 5—Continued

Trigger ID	GRB Name	Time (UT)	$\alpha$ ( $^{\circ}$ )	$\delta$ ( $^{\circ}$ )	Error ( $^{\circ}$ )	Location Source	Algorithm	Timescale (ms)	Energy (keV)	Other Detections <sup>a</sup> and/or ARRs
bn100619015	GRB 100619A	00:21:07.0260	86.4	-27.0	0.1	<i>Swift</i>	10	512	47-291	R, S, W
bn100620119	GRB 100620A	02:51:29.1134	80.1	-51.7	1.5	<i>Fermi</i> -GBM	13	1024	47-291	Mo, K, IA, Me, W, L
bn100621452	GRB 100621B	10:51:18.2595	103.8	37.3	2.8	<i>Fermi</i> -GBM	12	1024	47-291	K
bn100621529	GRB 100621C	12:42:16.4305	160.9	14.7	11.4	<i>Fermi</i> -GBM	11	512	47-291	IA
bn100625773	GRB 100625A	18:32:28.4721	15.8	-39.1	0.0	<i>Swift</i>	5	64	47-291	Mo, K, IA, S, Me, W, A
bn100625891	GRB 100625B	21:22:45.1845	338.3	20.3	4.4	<i>Fermi</i> -GBM	14	2048	47-291	K, S, W
bn100629801	GRB 100629A	19:14:03.3527	231.2	27.8	3.3	<i>Fermi</i> -GBM	6	128	47-291	Mo, K, IA, S, Me, W
bn100701490	GRB 100701B	11:45:23.0690	43.1	-2.2	0.1	IPN	5	64	47-291	K, IA, Me, W
bn100704149	GRB 100704A	03:35:06.1029	133.6	-24.2	0.0	<i>Swift</i>	8	256	47-291	K, IA, S
bn100706693	GRB 100706A	16:38:18.9243	255.2	46.9	12.2	<i>Fermi</i> -GBM	6	128	47-291	
bn100707032	GRB 100707A	00:46:38.9870	351.1	-6.6	1.0	<i>Fermi</i> -GBM	4	64	47-291	Mo, K, Me, W
bn100709602	GRB 100709A	14:27:32.9828	142.5	17.4	4.5	<i>Fermi</i> -GBM	8	256	47-291	Mo, K, R, IA, W
bn100713980	GRB 100713B	23:31:34.0130	82.1	13.0	3.7	<i>Fermi</i> -GBM	9	256	47-291	Mo, K, R, IA, S, Me, W, A
bn100714672	GRB 100714A	16:07:23.7779	106.4	51.1	3.7	<i>Fermi</i> -GBM	9	256	47-291	IA
bn100714686	GRB 100714B	16:27:20.0776	307.9	61.3	9.7	<i>Fermi</i> -GBM	4	64	47-291	K, IA, W
bn100715477	GRB 100715A	11:27:17.6396	299.3	-54.7	9.3	<i>Fermi</i> -GBM	15	2048	47-291	IA
bn100717372	GRB 100717A	08:55:06.2119	287.1	-0.7	8.8	<i>Fermi</i> -GBM	7	128	47-291	IA, S, Me
bn100717446	GRB 100717B	10:41:47.1184	304.3	19.5	9.2	<i>Fermi</i> -GBM	4	64	47-291	IA
bn100718160	GRB 100718B	03:50:09.6065	121.8	-46.2	5.9	<i>Fermi</i> -GBM	11	512	47-291	IA, W
bn100718796	GRB 100718A	19:06:22.5770	298.5	41.4	10.2	<i>Fermi</i> -GBM	12	1024	47-291	K
bn100719311	GRB 100719B	07:28:17.6230	304.9	-67.1	15.4	<i>Fermi</i> -GBM	13	1024	47-291	IA
bn100719825	GRB 100719C	19:48:08.0933	231.4	18.6	10.3	<i>Fermi</i> -GBM	9	256	47-291	IA
bn100719989	GRB 100719D	23:44:04.1293	113.3	5.4	1.0	<i>Fermi</i> -GBM	15	2048	47-291	K, IA, S, Me
bn100722096	GRB 100722A	02:18:37.2418	238.8	-15.6	1.1	<i>Fermi</i> -GBM	6	128	47-291	K, IA, S, Me, W, ARR
bn100722291	GRB 100722B	06:58:24.7237	31.8	56.2	8.1	<i>Fermi</i> -GBM	8	256	47-291	IA, W
bn100724029	GRB 100724A	00:42:05.9915	119.6	75.9	0.9	<i>Fermi</i> -LAT	10	512	47-291	Mo, K, R, IA, S, Me, W, A, L, ARR
bn100725475	GRB 100725B	11:24:34.8929	290.0	77.0	0.0	<i>Swift</i>	16	4096	47-291	K, R, IA, S, W
bn100727238	GRB 100727A	05:42:21.9977	154.2	-21.4	0.1	<i>Swift</i>	17	4096	47-291	IA, S, W
bn100728095	GRB 100728A	02:17:30.6106	88.8	-15.3	0.0	<i>Swift</i>	16	4096	47-291	K, R, IA, S, Me, W, L, ARR
bn100728439	GRB 100728B	10:31:54.9742	44.1	0.3	0.1	<i>Swift</i>	10	512	47-291	K, R, S, Me

Table 5—Continued

Trigger ID	GRB Name	Time (UT)	$\alpha$ ( $^{\circ}$ )	$\delta$ ( $^{\circ}$ )	Error ( $^{\circ}$ )	Location Source	Algorithm	Timescale (ms)	Energy (keV)	Other Detections <sup>a</sup> and/or ARRs
bn100730463	GRB 100730A	11:06:14.9678	339.8	-22.2	5.4	<i>Fermi</i> -GBM	17	4096	47-291	Mo, K, R, IA
bn100802240	GRB 100802A	05:45:35.6759	2.5	47.8	0.0	<i>Swift</i>	11	512	47-291	S, W
bn100804104	GRB 100804A	02:29:26.3476	249.0	27.5	1.0	<i>Fermi</i> -GBM	11	512	47-291	Mo, K, IA, S
bn100805300	GRB 100805B	07:12:12.4770	22.8	34.2	7.7	<i>Fermi</i> -GBM	4	64	47-291	IA
bn100805845	GRB 100805C	20:16:29.5284	112.7	-35.9	3.8	<i>Fermi</i> -GBM	6	128	47-291	K, Me
bn100810049	GRB 100810A	01:10:34.2426	124.8	-1.6	5.7	<i>Fermi</i> -GBM	13	1024	47-291	
bn100811108	GRB 100811A	02:35:49.3632	345.9	15.9	6.0	<i>Fermi</i> -GBM	5	64	47-291	Mo, K, R, IA, Me
bn100811781	GRB 100811B	18:44:09.2966	108.1	62.2	3.6	<i>Fermi</i> -GBM	9	256	47-291	K, Me
bn100814160	GRB 100814A	03:50:08.8091	22.5	-18.0	0.0	<i>Swift</i>	6	128	47-291	K, IA, S, Me, W
bn100814351	GRB 100814B	08:25:25.7462	122.8	18.5	2.6	<i>Fermi</i> -GBM	10	512	47-291	K, S, Me, W
bn100816009	GRB 100816B	00:12:41.4152	102.1	-26.7	1.1	<i>Fermi</i> -GBM	17	4096	47-291	K, IA, Me, W
bn100816026	GRB 100816A	00:37:50.9438	351.7	26.6	0.0	<i>Swift</i>	4	64	47-291	Mo, K, IA, S, Me
bn100819498	GRB 100819A	11:56:35.2617	279.6	-50.0	3.9	<i>Fermi</i> -GBM	12	1024	47-291	K, IA
bn100820373	GRB 100820A	08:56:58.4744	258.8	-18.5	2.1	<i>Fermi</i> -GBM	2	32	47-291	K, IA, S, Me
bn100825287	GRB 100825A	06:53:48.6698	253.4	-56.6	6.3	<i>Fermi</i> -GBM	12	1024	47-291	Mo
bn100826957	GRB 100826A	22:58:22.8984	284.0	-23.2	1.0	<i>Fermi</i> -GBM	15	2048	47-291	Mo, K, Me, W, L, ARR
bn100827455	GRB 100827A	10:55:49.3332	193.9	71.9	5.7	<i>Fermi</i> -GBM	5	64	47-291	K, R, IA, W, A
bn100829374	GRB 100829B	08:59:07.0227	115.4	-4.0	4.7	<i>Fermi</i> -GBM	12	1024	47-291	K, R, IA, S, Me, W
bn100829876	GRB 100829A	21:02:08.9901	90.4	30.3	0.2	IPN	5	64	47-291	Mo, K, R, S, Me
bn100831651	GRB 100831A	15:37:25.9432	161.3	33.7	10.2	<i>Fermi</i> -GBM	14	2048	47-291	K, IA
bn100902990	GRB 100902B	23:45:19.2230	306.0	42.3	7.2	<i>Fermi</i> -GBM	12	1024	47-291	K, IA
bn100905907	GRB 100905B	21:46:22.9886	262.6	13.1	4.0	<i>Fermi</i> -GBM	9	256	47-291	K, IA, W
bn100906576	GRB 100906A	13:49:27.6296	28.7	55.6	0.0	<i>Swift</i>	8	256	47-291	K, IA, S
bn100907751	GRB 100907A	18:01:11.6350	177.3	-40.6	6.9	<i>Fermi</i> -GBM	13	1024	47-291	
bn100910818	GRB 100910A	19:37:43.9632	238.1	-34.6	1.0	<i>Fermi</i> -GBM	9	256	47-291	Mo, K, S, Me, ARR
bn100911816	GRB 100911A	19:35:39.9046	151.3	59.0	11.8	<i>Fermi</i> -GBM	11	512	47-291	IA, S, W
bn100915243	GRB 100915B	05:49:39.6161	85.4	25.1	0.0	<i>INTEGRAL</i>	13	1024	47-291	R, IS
bn100916779	GRB 100916A	18:41:12.4932	152.0	-59.4	3.5	<i>Fermi</i> -GBM	4	64	47-291	K
bn100918863	GRB 100918A	20:42:18.0153	308.4	-46.0	1.0	<i>Fermi</i> -GBM	14	2048	47-291	Mo, K, R, IA, Me, W
bn100919884	GRB 100919A	21:12:16.2807	163.2	6.0	1.8	<i>Fermi</i> -GBM	12	1024	47-291	K, IA, Me, W

Table 5—Continued

Trigger ID	GRB Name	Time (UT)	$\alpha$ ( $^{\circ}$ )	$\delta$ ( $^{\circ}$ )	Error ( $^{\circ}$ )	Location Source	Algorithm	Timescale (ms)	Energy (keV)	Other Detections <sup>a</sup> and/or ARRs
bn100922625	GRB 100922A	14:59:43.0094	357.0	-25.2	15.0	<i>Fermi</i> -GBM	8	256	47-291	S, Me
bn100923844	GRB 100923A	20:15:10.6695	106.1	39.6	5.3	<i>Fermi</i> -GBM	8	256	47-291	K, IA
bn100924165	GRB 100924A	03:58:08.3174	0.7	7.0	0.0	<i>Swift</i>	9	256	47-291	Mo, K, IA, S, W
bn100926595	GRB 100926A	14:17:03.9427	222.8	-72.3	3.8	<i>Fermi</i> -GBM	9	256	47-291	K, Me, W
bn100926694	GRB 100926B	16:39:54.5159	43.6	-11.1	12.0	<i>Fermi</i> -GBM	17	4096	47-291	R, IA
bn100929235	GRB 100929A	05:38:52.4951	166.3	62.3	13.4	<i>Fermi</i> -GBM	14	2048	47-291	IA, W
bn100929315	GRB 100929B	07:33:04.0476	243.6	33.3	23.8	<i>Fermi</i> -GBM	11	512	47-291	IA
bn100929916	GRB 100929C	21:59:45.8208	183.0	-24.9	7.8	<i>Fermi</i> -GBM	2	32	47-291	IA, Me
bn101002279	GRB 101002A	06:41:26.9461	323.4	-27.5	16.4	<i>Fermi</i> -GBM	16	4096	47-291	IA
bn101003244	GRB 101003A	05:51:08.0080	175.9	2.5	7.4	<i>Fermi</i> -GBM	10	512	47-291	K, S
bn101004426	GRB 101004A	10:13:49.4556	232.2	-44.0	7.3	<i>Fermi</i> -GBM	16	4096	47-291	
bn101008697	GRB 101008A	16:43:15.6089	328.9	37.1	0.0	<i>Swift</i>	9	256	47-291	K, R, IA, S, Me, W
bn101010190	GRB 101010A	04:33:46.8303	47.2	43.6	18.6	<i>Fermi</i> -GBM	14	2048	47-291	IA
bn101011707	GRB 101011A	16:58:36.5335	48.3	-66.0	2.4	<i>Swift</i>	12	1024	47-291	IA, S
bn101013412	GRB 101013A	09:52:42.8813	292.1	-49.6	1.6	<i>Fermi</i> -GBM	10	512	47-291	Mo, K, R, IA, Me, W
bn101014175	GRB 101014A	04:11:52.6218	26.9	-51.1	1.0	<i>Fermi</i> -GBM	6	128	47-291	K, IA, Me, W, A, L
bn101015558	GRB 101015A	13:24:02.6672	73.2	15.5	5.9	<i>Fermi</i> -GBM	14	2048	47-291	K, IA
bn101016243	GRB 101016A	05:50:16.0722	133.0	-4.6	2.8	<i>Fermi</i> -GBM	5	64	47-291	Mo, K, IA, W
bn101017619	GRB 101017B	14:51:29.4836	27.5	-26.6	4.9	<i>Fermi</i> -GBM	12	1024	47-291	Mo, IA, W
bn101021009	GRB 101021A	00:13:25.3558	0.9	-23.7	1.3	<i>Fermi</i> -GBM	15	2048	47-291	Mo, K, R, S, Me
bn101021063	GRB 101021B	01:30:31.6578	0.5	47.3	12.8	<i>Fermi</i> -GBM	6	128	47-291	IA, S
bn101023951	GRB 101023A	22:50:04.7270	318.0	-65.4	0.0	<i>Swift</i>	17	4096	47-291	Mo, K, IA, S, Me, W, ARR
bn101024486	GRB 101024A	11:39:33.6020	66.5	-77.3	0.0	<i>Swift</i>	17	4096	47-291	K, IA, S, Me, W
bn101025146	GRB 101025A	03:30:18.6429	240.2	-8.5	24.4	<i>Fermi</i> -GBM	14	2048	47-291	ARR
bn101026034	GRB 101026A	00:49:16.1400	263.7	-0.4	7.6	<i>Fermi</i> -GBM	1	16	47-291	K, IA
bn101027230	GRB 101027A	05:30:30.7617	79.0	44.0	11.4	<i>Fermi</i> -GBM	5	64	47-291	
bn101030664	GRB 101030A	15:56:30.7162	166.4	-16.4	0.0	<i>Swift</i>	16	4096	47-291	S
bn101031625	GRB 101031A	14:59:32.7269	184.1	-7.5	15.9	<i>Fermi</i> -GBM	4	64	47-291	W
bn101101744	GRB 101101A	17:51:34.0237	13.6	45.8	3.1	<i>Fermi</i> -GBM	10	512	47-291	
bn101101899	GRB 101101B	21:34:08.9031	266.0	-29.0	5.4	<i>Fermi</i> -GBM	17	4096	47-291	IA, W

Table 5—Continued

Trigger ID	GRB Name	Time (UT)	$\alpha$ ( $^\circ$ )	$\delta$ ( $^\circ$ )	Error ( $^\circ$ )	Location Source	Algorithm	Timescale (ms)	Energy (keV)	Other Detections <sup>a</sup> and/or ARRs
bn101102840	GRB 101102A	20:10:07.4299	284.7	-37.0	7.8	<i>Fermi</i> -GBM	15	2048	47-291	IA
bn101104810	GRB 101104A	19:26:14.0512	161.0	-7.1	8.5	<i>Fermi</i> -GBM	5	64	47-291	K, R, IA, S, W
bn101107011	GRB 101107A	00:16:25.1173	168.3	22.4	4.1	<i>Fermi</i> -GBM	14	2048	47-291	K, R, IA, W
bn101112924	GRB 101112A	22:10:32.4495	292.2	39.4	0.0	<i>INTEGRAL</i>	9	256	47-291	K, R, IS, Me
bn101112984	GRB 101112B	23:36:55.8111	100.1	9.6	5.1	<i>Fermi</i> -GBM	17	4096	47-291	W
bn101113483	GRB 101113A	11:35:36.3981	29.1	0.2	2.7	<i>Fermi</i> -GBM	9	256	47-291	K, IA, S, Me
bn101116481	GRB 101116A	11:32:26.7371	32.0	-81.2	7.3	<i>Fermi</i> -GBM	5	64	47-291	IA
bn101117496	GRB 101117C	11:54:45.7539	57.2	-26.9	1.8	<i>Fermi</i> -GBM	14	2048	47-291	K, IA, Me
bn101119685	GRB 101119A	16:27:02.6578	226.5	59.6	16.2	<i>Fermi</i> -GBM	7	128	47-291	IA, W
bn101123952	GRB 101123A	22:51:34.9735	135.2	1.9	1.0	<i>Fermi</i> -GBM	15	2048	47-291	Mo, K, IA, S, Me, A, L
bn101126198	GRB 101126A	04:44:27.4773	84.8	-22.6	1.0	<i>Fermi</i> -GBM	16	4096	47-291	Mo, K, IA, S, Me, ARR
bn101127093	GRB 101127A	02:13:59.0697	290.3	7.9	23.2	<i>Fermi</i> -GBM	13	1024	47-291	
bn101127102	GRB 101127B	02:27:30.9027	70.9	-11.3	6.6	<i>Fermi</i> -GBM	8	256	47-291	R, IA, S, Me
bn101128322	GRB 101128A	07:44:04.2384	145.5	-35.2	5.7	<i>Fermi</i> -GBM	15	2048	47-291	K
bn101129652	GRB 101129A	15:39:31.6576	157.8	-17.2	4.6	<i>Fermi</i> -GBM	5	64	47-291	Mo, K, IA, S, Me, W
bn101129726	GRB 101129B	17:25:25.3404	271.5	1.0	8.2	<i>Fermi</i> -GBM	8	256	47-291	Mo, K, IA, S, W
bn101130074	GRB 101130B	01:45:54.3465	274.6	26.6	23.6	<i>Fermi</i> -GBM	16	4096	47-291	
bn101201418	GRB 101201A	10:01:49.7402	2.0	-16.2	0.0	<i>Swift</i>	10	512	47-291	Mo, K, IA, S, Me, W
bn101202154	GRB 101202A	03:41:53.8380	254.0	58.5	6.1	<i>Fermi</i> -GBM	10	512	47-291	K, IA
bn101204343	GRB 101204B	08:14:18.6046	191.9	55.7	10.4	<i>Fermi</i> -GBM	1	16	47-291	IA, S
bn101205309	GRB 101205A	07:24:24.8622	322.1	-39.1	11.1	<i>Fermi</i> -GBM	17	4096	47-291	IA
bn101206036	GRB 101206A	00:52:17.5301	164.1	-38.1	3.5	<i>Fermi</i> -GBM	13	1024	47-291	K, IA, W
bn101207536	GRB 101207A	12:51:41.3141	175.8	8.7	3.7	<i>Fermi</i> -GBM	12	1024	47-291	R, IA, S, Me
bn101208203	GRB 101208A	04:52:56.9155	212.4	4.0	11.7	<i>Fermi</i> -GBM	6	128	47-291	IA
bn101208498	GRB 101208B	11:57:01.1980	280.9	-59.0	1.4	<i>Fermi</i> -GBM	6	128	47-291	Mo, K, R, IA, S, Me
bn101211485	GRB 101211A	11:37:54.5157	31.8	10.1	11.2	<i>Fermi</i> -GBM	12	1024	47-291	
bn101213451	GRB 101213A	10:49:20.7987	241.3	21.9	0.0	<i>Swift</i>	13	1024	47-291	Mo, K, IA, S, Me, W
bn101213849	GRB 101213B	20:22:26.2667	261.0	-64.5	7.1	<i>Fermi</i> -GBM	4	64	47-291	IA
bn101214748	GRB 101214A	17:57:03.9723	0.7	-28.3	5.6	<i>Fermi</i> -GBM	2	32	47-291	S
bn101214993	GRB 101214A	23:50:00.9707	181.1	-31.1	5.7	<i>Fermi</i> -GBM	11	512	47-291	K, R, IA, S

Table 5—Continued

Trigger ID	GRB Name	Time (UT)	$\alpha$ ( $^{\circ}$ )	$\delta$ ( $^{\circ}$ )	Error ( $^{\circ}$ )	Location Source	Algorithm	Timescale (ms)	Energy (keV)	Other Detections <sup>a</sup> and/or ARRs
bn101216721	GRB 101216A	17:17:52.5437	284.3	-21.0	2.1	<i>Fermi</i> -GBM	7	128	47-291	Mo, K, IA, S, Me
bn101219686	GRB 101219B	16:28:13.1208	12.2	-34.6	0.0	<i>Swift</i>	16	4096	47-291	S
bn101220576	GRB 101220A	13:49:58.1328	241.6	46.1	1.2	<i>Fermi</i> -GBM	15	2048	47-291	K, R
bn101220864	GRB 101220B	20:43:54.1195	2.7	27.2	1.5	<i>Fermi</i> -GBM	13	1024	47-291	Mo, K, IA, W
bn101223834	GRB 101223A	20:00:18.0962	250.6	48.2	4.3	<i>Fermi</i> -GBM	16	4096	47-291	K, W
bn101224227	GRB 101224A	05:27:13.8616	285.9	45.7	0.1	<i>Swift</i>	4	64	47-291	S
bn101224578	GRB 101224B	13:52:58.2245	289.1	-55.2	4.8	<i>Fermi</i> -GBM	9	256	47-291	K, W
bn101224614	GRB 101224C	14:43:32.9295	290.2	34.5	8.9	<i>Fermi</i> -GBM	16	4096	47-291	K
bn101224998	GRB 101224D	23:57:34.9417	325.2	-38.7	8.3	<i>Fermi</i> -GBM	12	1024	47-291	
bn101225377	GRB 101225B	09:02:53.4978	60.7	32.8	1.8	<i>Fermi</i> -GBM	16	4096	47-291	Mo, K, R, IA, S, W
bn101227195	GRB 101227A	04:40:28.7163	186.8	-83.5	7.2	<i>Fermi</i> -GBM	8	256	47-291	K, IA, W
bn101227406	GRB 101227B	09:45:06.5683	240.5	-24.5	1.6	<i>Fermi</i> -GBM	11	512	47-291	Mo, K, Me, W
bn101227536	GRB 101227C	12:51:46.1930	150.9	-49.4	2.6	<i>Fermi</i> -GBM	9	256	47-291	Mo, K, Me, W
bn101231067	GRB 101231A	01:36:50.6108	191.7	17.6	1.4	<i>Fermi</i> -GBM	6	128	47-291	Mo, K, IA, Me
bn110101202	GRB 110101A	04:50:20.4790	264.3	36.5	11.2	<i>Fermi</i> -GBM	10	512	47-291	IA, S
bn110101506	GRB 110101B	12:08:21.5756	105.5	34.6	16.5	<i>Fermi</i> -GBM	16	4096	47-291	
bn110102788	GRB 110102A	18:54:36.0066	245.9	7.6	0.0	<i>Swift</i>	9	256	47-291	ARR
bn110105877	GRB 110105A	21:02:39.5976	85.1	-17.1	2.0	<i>Fermi</i> -GBM	12	1024	47-291	Mo, K, R, IA, S, Me
bn110106893	GRB 110106B	21:26:16.0782	134.2	47.0	0.1	<i>Swift</i>	17	4096	47-291	K, IA, S
bn110107886	GRB 110107A	21:15:51.7986	299.1	42.0	3.3	<i>Fermi</i> -GBM	11	512	47-291	K, R, S, W
bn110108977	GRB 110108A	23:26:18.5151	11.6	-9.6	2.7	<i>Fermi</i> -GBM	12	1024	47-291	IA, Me
bn110112934	GRB 110112B	22:24:55.2904	10.6	64.4	0.0	<i>INTEGRAL</i>	4	64	47-291	IS
bn110117364	GRB 110117A	08:44:50.8029	130.9	47.6	9.6	<i>Fermi</i> -GBM	15	2048	47-291	S, W
bn110117626	GRB 110117B	15:01:27.6317	129.5	-12.9	3.6	<i>Fermi</i> -GBM	9	256	47-291	R, IA, S
bn110118857	GRB 110118A	20:34:18.7914	226.6	-39.5	4.1	<i>Fermi</i> -GBM	8	256	47-291	K, IA, Me, W
bn110119931	GRB 110119A	22:21:00.1678	348.6	6.0	0.0	<i>Swift</i>	14	2048	47-291	K, IA, S, W
bn110120666	GRB 110120A	15:59:39.2285	61.6	-12.0	0.4	<i>Fermi</i> -LAT	9	256	47-291	K, IA, S, Me, W, L, ARR
bn110123804	GRB 110123A	19:17:45.0445	247.0	28.0	1.2	<i>Fermi</i> -GBM	8	256	47-291	Mo, K, R, IA, S, Me
bn110124784	GRB 110124A	18:49:09.0701	53.8	36.3	9.1	<i>Fermi</i> -GBM	14	2048	47-291	
bn110125894	GRB 110125A	21:27:28.3942	331.4	-46.2	5.8	<i>Fermi</i> -GBM	10	512	47-291	

Table 5—Continued

Trigger ID	GRB Name	Time (UT)	$\alpha$ ( $^{\circ}$ )	$\delta$ ( $^{\circ}$ )	Error ( $^{\circ}$ )	Location Source	Algorithm	Timescale (ms)	Energy (keV)	Other Detections <sup>a</sup> and/or ARRs
bn110128073	GRB 110128A	01:44:36.4388	193.9	28.1	0.0	<i>Swift</i>	14	2048	47-291	S
bn110130230	GRB 110130A	05:31:52.5817	111.5	38.2	6.8	<i>Fermi</i> -GBM	10	512	47-291	
bn110131780	GRB 110131A	18:42:38.5734	183.8	72.9	14.5	<i>Fermi</i> -GBM	8	256	47-291	IA
bn110201399	GRB 110201A	09:35:10.2515	137.6	88.6	0.0	<i>Swift</i>	14	2048	47-291	S
bn110204179	GRB 110204A	04:17:11.3723	1.8	-17.4	4.0	<i>Fermi</i> -GBM	14	2048	47-291	K, S, Me, W
bn110205027	GRB 110205B	00:39:04.6507	359.7	-80.4	9.2	<i>Fermi</i> -GBM	13	1024	47-291	W
bn110205588	GRB 110205C	14:07:20.0120	312.7	-55.9	10.1	<i>Fermi</i> -GBM	17	4096	47-291	K, IA, W
bn110206202	GRB 110206B	04:50:36.0612	333.7	1.6	15.5	<i>Fermi</i> -GBM	12	1024	47-291	
bn110207470	GRB 110207A	11:17:20.2873	12.5	-10.8	0.0	<i>Swift</i>	4	64	47-291	S, W
bn110207959	GRB 110207B	23:00:26.4059	179.0	-58.4	9.0	<i>Fermi</i> -GBM	11	512	47-291	
bn110209165	GRB 110209A	03:58:08.2980	329.7	-21.9	10.6	<i>Fermi</i> -GBM	16	4096	47-291	W
bn110212550	GRB 110212B	13:12:33.5227	311.3	-74.5	4.3	<i>Fermi</i> -GBM	1	16	47-291	K, IA, S, W, ARR
bn110213220	GRB 110213A	05:17:11.2720	43.0	49.3	0.1	<i>Swift</i>	15	2048	47-291	K, R, S, Me
bn110213876	GRB 110213C	21:00:51.3417	6.3	27.5	10.8	<i>Fermi</i> -GBM	7	128	47-291	S
bn110217591	GRB 110217A	14:10:46.5313	274.7	32.3	8.5	<i>Fermi</i> -GBM	14	2048	47-291	K
bn110220761	GRB 110220A	18:16:21.6289	185.5	16.6	6.1	<i>Fermi</i> -GBM	11	512	47-291	IA, S
bn110221244	GRB 110221A	05:51:19.3637	15.2	66.1	1.2	<i>Fermi</i> -GBM	12	1024	47-291	IA, Me, W
bn110226989	GRB 110226A	23:44:31.1326	199.3	35.8	7.1	<i>Fermi</i> -GBM	13	1024	47-291	K, IA
bn110227009	GRB 110227A	00:12:28.2262	148.7	-54.0	11.9	<i>Fermi</i> -GBM	8	256	47-291	IA
bn110227229	GRB 110227B	05:30:10.8216	25.2	15.9	7.4	<i>Fermi</i> -GBM	12	1024	47-291	K, S, W
bn110227420	GRB 110227C	10:04:12.5524	232.7	-9.9	5.0	<i>Fermi</i> -GBM	13	1024	47-291	IA, Me
bn110228011	GRB 110228A	00:15:58.9081	10.3	-45.7	2.6	<i>Fermi</i> -GBM	15	2048	47-291	K, IA, S, W
bn110228792	GRB 110228B	18:59:50.3907	245.1	16.4	4.7	<i>Fermi</i> -GBM	17	4096	47-291	IA, S, W
bn110301214	GRB 110301A	05:08:43.0699	229.4	29.4	1.0	<i>Fermi</i> -GBM	4	64	47-291	K, IA, S, Me, W, A, ARR
bn110302043	GRB 110302A	01:01:51.7323	122.3	2.9	6.8	<i>Fermi</i> -GBM	10	512	47-291	
bn110304071	GRB 110304A	01:42:33.7986	322.9	33.3	4.2	<i>Fermi</i> -GBM	6	128	47-291	K, IA, W
bn110307972	GRB 110307A	23:19:08.2578	193.1	15.6	7.6	<i>Fermi</i> -GBM	5	64	47-291	IA
bn110311812	GRB 110311A	19:29:21.4165	117.6	34.3	9.7	<i>Fermi</i> -GBM	12	1024	47-291	IA
bn110316139	GRB 110316A	03:19:41.8631	46.7	-67.6	17.8	<i>Fermi</i> -GBM	6	128	47-291	
bn110318552	GRB 110318A	13:14:16.7008	338.3	-15.3	0.0	<i>Swift</i>	17	4096	47-291	Mo, IA, S

Table 5—Continued

Trigger ID	GRB Name	Time (UT)	$\alpha$ ( $^\circ$ )	$\delta$ ( $^\circ$ )	Error ( $^\circ$ )	Location Source	Algorithm	Timescale (ms)	Energy (keV)	Other Detections <sup>a</sup> and/or ARRs
bn110319628	GRB 110319C	15:04:45.4603	208.0	-51.6	4.9	<i>Fermi</i> -GBM	14	2048	47-291	IA
bn110319815	GRB 110319B	19:34:02.2948	325.6	-57.1	6.8	<i>Fermi</i> -GBM	12	1024	47-291	IA, S
bn110321346	GRB 110321A	08:17:42.4849	13.3	-21.8	11.8	<i>Fermi</i> -GBM	16	4096	47-291	Mo
bn110322558	GRB 110322A	13:23:42.8132	99.0	-48.9	4.7	<i>Fermi</i> -GBM	12	1024	47-291	IA
bn110328520	GRB 110328B	12:29:19.1942	117.7	43.1	1.7	<i>Fermi</i> -LAT	16	4096	47-291	K, R, IA, S, Me, W, L
bn110331604	GRB 110331A	14:29:06.8443	6.7	26.0	4.7	<i>Fermi</i> -GBM	10	512	47-291	IA, S
bn110401920	GRB 110401A	22:04:19.6333	268.6	26.9	3.8	<i>Fermi</i> -GBM	5	64	47-291	K, IA, S, A
bn110402009	GRB 110402A	00:12:58.5426	197.4	61.2	0.1	<i>Swift</i>	9	256	47-291	K, IA, S, Me, W
bn110407998	GRB 110407B	23:56:57.0598	97.4	-11.9	1.0	<i>Fermi</i> -GBM	11	512	47-291	K, IA, Me
bn110409179	GRB 110409A	04:17:20.6001	238.7	-34.3	10.9	<i>Fermi</i> -GBM	2	32	47-291	IA, W
bn110410133	GRB 110410A	03:10:52.4268	30.9	-15.9	3.7	<i>Fermi</i> -GBM	13	1024	47-291	
bn110410772	GRB 110410B	18:31:19.8814	337.2	-22.0	17.4	<i>Fermi</i> -GBM	11	512	47-291	
bn110411629	GRB 110411B	15:05:15.3503	210.3	-65.0	6.3	<i>Fermi</i> -GBM	14	2048	47-291	K, IA
bn110412315	GRB 110412A	07:33:35.7064	133.5	13.5	0.1	<i>Swift</i>	13	1024	47-291	K, S
bn110413938	GRB 110413A	22:31:09.1604	352.7	32.3	11.6	<i>Fermi</i> -GBM	13	1024	47-291	K, IA, W
bn110415541	GRB 110415A	12:59:22.9542	213.8	9.1	9.2	<i>Fermi</i> -GBM	8	256	47-291	K, IA, S, Me
bn110420946	GRB 110420B	22:42:11.7338	320.0	-41.3	0.0	<i>Swift</i>	1	16	47-291	IA, S
bn110421757	GRB 110421A	18:10:39.9182	277.2	50.8	1.7	<i>Fermi</i> -GBM	16	4096	47-291	K, IA, Me
bn110422029	GRB 110422B	00:41:48.5550	226.7	43.0	21.5	<i>Fermi</i> -GBM	5	64	47-291	
bn110424758	GRB 110424A	18:11:36.6464	293.3	-11.1	12.4	<i>Fermi</i> -GBM	5	64	47-291	IA
bn110426629	GRB 110426A	15:06:26.6132	219.9	-8.7	2.1	<i>Fermi</i> -GBM	16	4096	47-291	K, IA
bn110428338	GRB 110428B	08:07:05.2455	128.4	19.9	2.9	<i>Fermi</i> -GBM	13	1024	47-291	K, W
bn110428388	GRB 110428A	09:18:30.4056	5.3	64.8	0.1	<i>Fermi</i> -LAT	8	256	47-291	Mo, K, R, IA, Me, W, L, ARR
bn110430375	GRB 110430A	09:00:13.4027	147.1	67.9	2.5	<i>Fermi</i> -GBM	14	2048	47-291	K, W
bn110503145	GRB 110503B	03:28:26.1217	70.5	-10.9	4.3	<i>Fermi</i> -GBM	11	512	47-291	K, IA
bn110505203	GRB 110505A	04:52:56.4318	16.8	-32.3	3.1	<i>Fermi</i> -GBM	9	256	47-291	K, S
bn110509142	GRB 110509A	03:24:38.7932	180.8	-34.0	4.6	<i>Fermi</i> -GBM	17	4096	47-291	K, IA, S, W
bn110509475	GRB 110509B	11:24:15.5795	74.7	-27.0	8.3	<i>Fermi</i> -GBM	5	64	47-291	IA
bn110511616	GRB 110511A	14:47:12.6955	214.1	-45.4	10.6	<i>Fermi</i> -GBM	15	2048	47-291	
bn110517453	GRB 110517A	10:52:35.4094	296.1	-73.8	9.0	<i>Fermi</i> -GBM	5	64	47-291	IA

Table 5—Continued

Trigger ID	GRB Name	Time (UT)	$\alpha$ ( $^\circ$ )	$\delta$ ( $^\circ$ )	Error ( $^\circ$ )	Location Source	Algorithm	Timescale (ms)	Energy (keV)	Other Detections <sup>a</sup> and/or ARR
bn110517573	GRB 110517A	13:44:47.6003	190.1	6.3	2.1	<i>Fermi</i> -GBM	11	512	47-291	Mo, K, IA, W
bn110517902	GRB 110517B	21:38:48.2981	85.6	47.3	8.3	<i>Fermi</i> -GBM	6	128	47-291	IA
bn110520302	GRB 110520B	07:14:26.2366	71.0	-85.9	12.4	<i>Fermi</i> -GBM	14	2048	47-291	
bn110521478	GRB 110521B	11:28:58.8830	57.5	-62.3	1.3	<i>Fermi</i> -GBM	4	64	47-291	K, R, IA, Me
bn110522256	GRB 110522A	06:08:17.4489	228.9	55.5	5.6	<i>Fermi</i> -GBM	16	4096	47-291	K, IA, S
bn110522296	GRB 110522B	07:06:01.9310	184.5	49.3	6.4	<i>Fermi</i> -GBM	13	1024	47-291	IA, W
bn110522633	GRB 110522C	15:11:56.6064	180.6	-26.8	12.5	<i>Fermi</i> -GBM	6	128	47-291	Mo, K, IA, S, W
bn110523344	GRB 110523A	08:15:54.5808	219.0	-15.4	4.5	<i>Fermi</i> -GBM	8	256	47-291	R, IA
bn110526715	GRB 110526A	17:09:01.8091	102.5	-16.4	5.8	<i>Fermi</i> -GBM	4	64	47-291	K, IA
bn110528624	GRB 110528A	14:58:44.3001	44.8	-6.9	2.5	<i>Fermi</i> -GBM	15	2048	47-291	IA, W
bn110529034	GRB 110529A	00:48:42.8715	118.3	67.9	1.5	<i>Fermi</i> -GBM	5	64	47-291	K, R, S, W, L, ARR
bn110529262	GRB 110529B	06:17:41.0141	172.6	8.8	2.1	<i>Fermi</i> -GBM	10	512	47-291	K, IA
bn110529811	GRB 110529C	19:27:12.7635	340.6	1.9	4.8	<i>Fermi</i> -GBM	12	1024	47-291	IA, S, W
bn110531448	GRB 110531A	10:45:10.5602	190.5	11.9	11.1	<i>Fermi</i> -GBM	14	2048	47-291	
bn110601681	GRB 110601A	16:20:16.0763	310.7	11.5	3.0	<i>Fermi</i> -GBM	8	256	47-291	K, IA, S
bn110605183	GRB 110605A	04:23:32.3035	14.9	52.5	1.0	<i>Fermi</i> -GBM	10	512	47-291	Mo, K, IA, W
bn110605780	GRB 110605B	18:42:49.0448	242.1	-3.1	10.1	<i>Fermi</i> -GBM	8	256	47-291	IA
bn110609185	GRB 110609A	04:26:11.0591	327.8	44.6	12.7	<i>Fermi</i> -GBM	12	1024	47-291	
bn110609425	GRB 110609B	10:12:06.1636	317.6	-38.2	4.7	<i>Fermi</i> -GBM	12	1024	47-291	
bn110610640	GRB 110610A	15:21:32.5485	308.2	74.8	0.0	<i>Fermi</i> -GBM	13	1024	47-291	K, IA, S, W
bn110613631	GRB 110613A	15:08:46.3000	336.9	-3.5	2.8	<i>Fermi</i> -GBM	12	1024	47-291	Mo, IA, Me, W
bn110616648	GRB 110616A	15:33:25.2346	274.5	-34.0	12.0	<i>Fermi</i> -GBM	16	4096	47-291	R, IA
bn110618366	GRB 110618A	08:47:36.3831	176.8	-71.7	0.7	IPN	14	2048	47-291	Mo, K, IA, S, Me, A
bn110618760	GRB 110618B	18:14:16.3073	147.1	-7.5	2.1	<i>Fermi</i> -GBM	17	4096	47-291	K, IA, Me
bn110622158	GRB 110622A	03:47:19.1055	134.0	19.5	1.8	<i>Fermi</i> -GBM	17	4096	47-291	Mo, K, IA, S, Me, W
bn110624906	GRB 110624A	21:44:25.5647	65.0	-15.9	17.3	<i>Fermi</i> -GBM	14	2048	47-291	S
bn110625579	GRB 110625B	13:53:24.5753	315.3	-39.4	4.6	<i>Fermi</i> -GBM	13	1024	47-291	K, IA, W
bn110625881	GRB 110625A	21:08:18.2358	286.7	6.8	0.0	<i>Swift</i>	10	512	47-291	K, IA, S, Me, W, L, ARR
bn110626448	GRB 110626A	10:44:54.2131	131.9	5.6	7.7	<i>Fermi</i> -GBM	8	256	47-291	K, IA, W
bn110629174	GRB 110629A	04:09:58.1975	69.4	25.0	4.8	<i>Fermi</i> -GBM	10	512	47-291	K, IA, Me



Table 5—Continued

Trigger ID	GRB Name	Time (UT)	$\alpha$ ( $^{\circ}$ )	$\delta$ ( $^{\circ}$ )	Error ( $^{\circ}$ )	Location Source	Algorithm	Timescale (ms)	Energy (keV)	Other Detections <sup>a</sup> and/or ARRs
bn110702187	GRB 110702A	04:29:28.9167	5.6	-37.7	4.8	<i>Fermi</i> -GBM	10	512	47-291	K, IA, S, W
bn110703557	GRB 110703A	13:22:15.5813	155.4	-29.3	3.8	<i>Fermi</i> -GBM	9	256	47-291	IA
bn110705151	GRB 110705A	03:37:11.9380	156.0	40.1	0.2	IPN	1	16	47-291	Mo, K, R, IA, S, Me, W
bn110705364	GRB 110705B	08:43:43.4178	123.0	28.8	3.1	<i>Fermi</i> -GBM	14	2048	47-291	Mo, K, R, IA, S, Me, W
bn110706202	GRB 110706A	04:51:04.0288	100.1	6.1	8.0	<i>Fermi</i> -GBM	15	2048	47-291	Mo, K, R, IA, Me, W
bn110706477	GRB 110706B	11:26:15.7565	94.2	-50.8	2.0	<i>Fermi</i> -GBM	12	1024	47-291	IA, Me
bn110706728	GRB 110706C	17:27:56.3453	9.1	31.7	4.1	<i>Fermi</i> -GBM	5	64	47-291	Mo, K, IA, S
bn110706977	GRB 110706D	23:26:51.4124	347.5	7.1	2.6	<i>Fermi</i> -GBM	9	256	47-291	K, S
bn110709463	GRB 110709C	11:06:53.3660	155.4	23.1	1.5	<i>Fermi</i> -GBM	8	256	47-291	K, IA, Me
bn110709642	GRB 110709A	15:24:27.3676	238.9	40.9	0.0	<i>Swift</i>	14	2048	47-291	Mo, K, R, IA, S, Me, W, L, ARR
bn110709862	GRB 110709D	20:40:50.0855	156.2	-41.8	10.8	<i>Fermi</i> -GBM	10	512	47-291	W
bn110710954	GRB 110710A	22:53:50.5974	229.1	48.4	3.9	<i>Fermi</i> -GBM	4	64	47-291	K, R, IA, W
bn110716018	GRB 110716A	00:25:19.9720	329.7	-77.0	3.9	<i>Fermi</i> -GBM	8	256	47-291	
bn110717180	GRB 110717A	04:19:50.6602	308.5	-7.8	7.4	<i>Fermi</i> -GBM	1	16	47-291	K, IA
bn110717319	GRB 110717B	07:39:55.8621	312.8	-14.8	1.2	<i>Fermi</i> -GBM	16	4096	47-291	Mo, K, IA, Me
bn110720177	GRB 110720A	04:14:32.3820	198.6	-44.3	2.6	<i>Fermi</i> -GBM	9	256	47-291	Mo, K, R, IA, Me
bn110721200	GRB 110721A	04:47:43.7605	332.5	-38.6	0.4	IPN	4	64	47-291	K, IA, Me, A, L, ARR
bn110722694	GRB 110722A	16:39:16.6757	215.1	5.0	2.0	<i>Fermi</i> -GBM	17	4096	47-291	Mo, IA, S, Me
bn110722710	GRB 110722B	17:01:45.9135	8.3	62.7	4.7	<i>Fermi</i> -GBM	17	4096	47-291	Mo, K, IA
bn110725236	GRB 110725A	05:39:42.0592	270.1	-25.2	9.1	<i>Fermi</i> -GBM	5	64	47-291	K, IA
bn110726211	GRB 110726B	05:03:59.4873	317.7	2.5	3.8	<i>Fermi</i> -GBM	17	4096	47-291	K, IA, Me
bn110728056	GRB 110728A	01:20:22.8161	166.6	20.1	2.6	<i>Fermi</i> -GBM	7	128	47-291	IA, Me, W
bn110729142	GRB 110729A	03:25:05.9291	353.4	5.0	1.4	<i>Fermi</i> -GBM	12	1024	47-291	K, R, IA, S, Me
bn110730008	GRB 110730A	00:11:54.7434	263.1	-22.8	4.3	<i>Fermi</i> -GBM	17	4096	47-291	
bn110730660	GRB 110730B	15:50:43.7622	335.1	-2.9	3.8	<i>Fermi</i> -GBM	15	2048	47-291	Mo, R, IA, S
bn110731465	GRB 110731A	11:09:29.9540	280.5	-28.5	0.0	<i>Swift</i>	9	256	47-291	K, R, IA, S, Me, W, L, ARR
bn110801335	GRB 110801B	08:01:43.0855	248.3	-57.1	7.3	<i>Fermi</i> -GBM	5	64	47-291	IA
bn110803783	GRB 110803A	18:47:25.4281	300.4	-11.4	7.5	<i>Fermi</i> -GBM	12	1024	47-291	IA
bn110806934	GRB 110806A	22:25:31.1146	112.0	2.4	2.4	<i>Fermi</i> -GBM	15	2048	47-291	K, IA, S, W
bn110809461	GRB 110809A	11:03:34.0044	172.2	-13.9	1.8	<i>Fermi</i> -GBM	14	2048	47-291	IA

Table 5—Continued

Trigger ID	GRB Name	Time (UT)	$\alpha$ ( $^{\circ}$ )	$\delta$ ( $^{\circ}$ )	Error ( $^{\circ}$ )	Location Source	Algorithm	Timescale (ms)	Energy (keV)	Other Detections <sup>a</sup> and/or ARRs
bn110812899	GRB 110812B	21:35:08.6065	77.8	1.7	2.5	<i>Fermi</i> -GBM	8	256	47-291	
bn110813237	GRB 110813A	05:40:50.9313	61.2	34.6	1.0	<i>Fermi</i> -GBM	12	1024	47-291	Mo, K, R, Me
bn110817191	GRB 110817A	04:35:12.1202	336.0	-45.8	1.5	<i>Fermi</i> -GBM	7	128	47-291	Mo, K, R, IA, S, Me, W, ARR
bn110818860	GRB 110818A	20:37:54.2210	317.3	-64.0	0.0	<i>Swift</i>	16	4096	47-291	IA, S
bn110819665	GRB 110819A	15:57:54.9716	139.5	-76.6	3.2	<i>Fermi</i> -GBM	4	64	47-291	K, IA, S, Me, W
bn110820476	GRB 110820C	11:25:44.3476	90.5	21.6	4.0	<i>Fermi</i> -GBM	13	1024	47-291	W
bn110824009	GRB 110824A	00:13:09.9413	152.1	1.3	1.7	<i>Fermi</i> -GBM	4	64	47-291	Mo, K, IA, S, Me, W, A
bn110825102	GRB 110825A	02:26:50.9376	44.9	15.4	0.1	IPN	25	64	23-47	Mo, R, IA, S, Me, W, A, ARR
bn110825265	GRB 110825B	06:22:11.4387	251.3	-80.3	5.2	<i>Fermi</i> -GBM	17	4096	47-291	
bn110828575	GRB 110828A	13:48:14.7196	110.6	-23.8	1.0	<i>Fermi</i> -LAT	12	1024	47-291	K, IA, S, Me, W
bn110831282	GRB 110831A	06:45:26.6063	352.4	33.7	5.9	<i>Fermi</i> -GBM	10	512	47-291	K, IA, Me, W
bn110901230	GRB 110901A	05:31:44.0575	141.3	-15.8	3.4	<i>Fermi</i> -GBM	16	4096	47-291	
bn110903009	GRB 110903B	00:13:06.2933	164.2	42.1	1.2	<i>Fermi</i> -GBM	8	256	47-291	K, IA, S, Me, W
bn110903111	GRB 110903A	02:39:34.4223	197.1	59.0	0.0	<i>INTEGRAL</i>	8	256	47-291	K, IA, IS, S, Me, W
bn110904124	GRB 110904A	02:58:15.9607	359.7	35.9	2.6	<i>Fermi</i> -GBM	9	256	47-291	K, R, IA, Me, W
bn110904163	GRB 110904B	03:54:36.0195	190.4	-28.9	6.1	<i>Fermi</i> -GBM	11	512	47-291	IA, S
bn110904531	GRB 110904C	12:44:19.3299	323.7	23.9	1.7	<i>Fermi</i> -GBM	14	2048	47-291	K, IA, S
bn110906302	GRB 110906B	07:15:13.4195	26.3	17.6	4.0	<i>Fermi</i> -GBM	8	256	47-291	IA, Me
bn110909116	GRB 110909A	02:46:58.1898	347.3	-24.2	2.0	<i>Fermi</i> -GBM	8	256	47-291	Mo, K, IA, Me
bn110911071	GRB 110911A	01:41:41.5686	258.6	-67.0	50.0	<i>Fermi</i> -GBM	11	512	47-291	
bn110916016	GRB 110916A	00:23:01.6483	4.1	40.4	21.9	<i>Fermi</i> -GBM	11	512	47-291	IA
bn110919634	GRB 110919A	15:12:15.7838	280.0	66.4	1.0	<i>Fermi</i> -GBM	17	4096	47-291	Mo, K, S, Me, W
bn110920338	GRB 110920A	08:07:16.4098	87.6	38.8	5.0	<i>Fermi</i> -GBM	9	256	47-291	Mo, K, R, IA, S, Me, W
bn110920546	GRB 110920A	13:05:43.8122	209.8	-27.6	1.0	<i>Fermi</i> -GBM	10	512	47-291	K, R, IA, Me, W
bn110921444	GRB 110921C	10:38:48.2023	6.1	-5.8	7.3	<i>Fermi</i> -GBM	13	1024	47-291	IA
bn110921577	GRB 110921A	13:51:22.5714	294.1	36.4	0.1	<i>Swift</i>	13	1024	47-291	K, IA, S, W
bn110921912	GRB 110921B	21:52:45.0919	18.0	-27.8	1.0	<i>Fermi</i> -GBM	8	256	47-291	Mo, K, IA, S, Me, ARR
bn110923835	GRB 110923A	20:01:58.1336	323.4	-10.9	3.7	<i>Fermi</i> -GBM	9	256	47-291	Mo, IA
bn110926107	GRB 110926A	02:33:36.6438	69.4	10.4	3.3	<i>Fermi</i> -GBM	14	2048	47-291	Mo, IA, Me
bn110928180	GRB 110928B	04:19:51.4104	153.4	34.3	1.4	<i>Fermi</i> -GBM	15	2048	47-291	Mo, K, R, IA, Me, W

Table 5—Continued

Trigger ID	GRB Name	Time (UT)	$\alpha$ ( $^{\circ}$ )	$\delta$ ( $^{\circ}$ )	Error ( $^{\circ}$ )	Location Source	Algorithm	Timescale (ms)	Energy (keV)	Other Detections <sup>a</sup> and/or ARRs
bn110929187	GRB 110929A	04:28:53.5846	288.2	-62.2	4.0	<i>Fermi</i> -GBM	4	64	47-291	K, R, IA, S
bn110930564	GRB 110930A	13:32:31.1890	187.3	-53.7	5.1	<i>Fermi</i> -GBM	14	2048	47-291	IA
bn111001804	GRB 111001A	19:17:58.5757	340.0	-15.3	15.1	<i>Fermi</i> -GBM	6	128	47-291	IA
bn111003465	GRB 111003A	11:10:00.2298	276.8	-62.3	1.1	<i>Fermi</i> -GBM	8	256	47-291	Mo, K, R, IA, S, Me, W, ARR
bn111005398	GRB 111005B	09:33:03.3758	340.3	75.8	5.3	<i>Fermi</i> -GBM	17	4096	47-291	K, IA
bn111008992	GRB 111008B	23:49:01.2916	220.8	-5.7	4.3	<i>Fermi</i> -GBM	14	2048	47-291	
bn111009282	GRB 111009A	06:45:40.1731	183.0	-56.8	1.1	<i>Fermi</i> -GBM	10	512	47-291	K, IA, S, Me
bn111010237	GRB 111010A	05:40:34.5636	87.1	44.0	3.2	<i>Fermi</i> -GBM	16	4096	47-291	K, IA
bn111010660	GRB 111010B	15:50:21.7971	183.5	-31.7	7.1	<i>Fermi</i> -GBM	8	256	47-291	
bn111010709	GRB 111010C	17:00:35.2884	69.8	41.9	1.7	<i>Fermi</i> -GBM	14	2048	47-291	K, R
bn111010899	GRB 111010D	21:34:13.6769	77.0	-15.0	7.7	<i>Fermi</i> -GBM	12	1024	47-291	
bn111011094	GRB 111011A	02:15:09.8948	38.0	-12.5	6.8	<i>Fermi</i> -GBM	3	32	47-291	K, IA, W
bn111012456	GRB 111012A	10:56:37.4423	154.0	68.1	2.1	<i>Fermi</i> -GBM	12	1024	47-291	K, IA, Me, A
bn111012811	GRB 111012B	19:27:39.0980	97.2	67.1	1.7	<i>Fermi</i> -GBM	4	64	47-291	Mo, K, IA, S, Me, W
bn111015427	GRB 111015A	10:15:12.9852	220.6	-58.4	2.0	<i>Fermi</i> -GBM	9	256	47-291	Mo, K, R, IA, S, Me
bn111017657	GRB 111017A	15:45:23.7190	8.1	-7.0	1.0	<i>Fermi</i> -GBM	13	1024	47-291	K, R, IA, Me, W, ARR
bn111018595	GRB 111018B	14:16:48.8680	106.1	66.1	7.2	<i>Fermi</i> -GBM	9	256	47-291	K, IA
bn111018785	GRB 111018C	18:50:14.7095	124.2	81.3	7.5	<i>Fermi</i> -GBM	14	2048	47-291	Mo, W
bn111022854	GRB 111022C	20:29:23.7041	104.5	-33.1	9.3	<i>Fermi</i> -GBM	5	64	47-291	W
bn111024722	GRB 111024B	17:19:02.8789	162.7	-44.9	2.6	<i>Fermi</i> -GBM	10	512	47-291	K, R, IA, S, Me, W
bn111024896	GRB 111024C	21:30:02.2436	91.2	-1.8	13.1	<i>Fermi</i> -GBM	5	64	47-291	IA
bn111025078	GRB 111025A	01:52:45.7422	325.6	-35.5	2.7	<i>Fermi</i> -GBM	13	1024	47-291	K, IA, S
bn111103441	GRB 111103A	10:35:13.3905	327.1	-10.5	0.0	<i>Swift</i>	9	256	47-291	K, S, W
bn111103948	GRB 111103C	22:45:05.7206	201.6	-43.2	11.0	<i>Fermi</i> -GBM	3	32	47-291	IA, W
bn111105457	GRB 111105A	10:57:36.0828	153.5	7.3	14.2	<i>Fermi</i> -GBM	11	512	47-291	W
bn111107035	GRB 111107A	00:50:25.4844	129.5	-66.5	0.0	<i>Swift</i>	15	2048	47-291	S
bn111107076	GRB 111107B	01:49:46.0210	315.5	-38.5	3.5	<i>Fermi</i> -GBM	13	1024	47-291	K, R, IA, Me, W
bn111109453	GRB 111109B	10:52:32.2473	133.7	-33.4	7.4	<i>Fermi</i> -GBM	12	1024	47-291	K, Me
bn111109873	GRB 111109C	20:57:16.6575	130.0	44.7	1.5	<i>Fermi</i> -GBM	11	512	47-291	Mo, K, IA
bn111112908	GRB 111112A	21:47:48.1637	223.7	28.8	3.8	<i>Fermi</i> -GBM	1	16	47-291	K, IA, Me, W

Table 5—Continued

Trigger ID	GRB Name	Time (UT)	$\alpha$ ( $^\circ$ )	$\delta$ ( $^\circ$ )	Error ( $^\circ$ )	Location Source	Algorithm	Timescale (ms)	Energy (keV)	Other Detections <sup>a</sup> and/or ARR
bn111113410	GRB 111113B	09:50:11.7591	4.3	-7.5	4.0	<i>Fermi</i> -GBM	12	1024	47-291	IA
bn111114233	GRB 111114A	05:35:45.3513	268.1	-20.0	5.7	<i>Fermi</i> -GBM	13	1024	47-291	IA, Me, W
bn111117510	GRB 111117A	12:13:42.0293	12.7	23.0	0.0	<i>Swift</i>	3	32	47-291	IA, S, ARR
bn111117526	GRB 111117B	12:38:00.7586	27.2	-16.1	6.2	<i>Fermi</i> -GBM	12	1024	47-291	IA, S, W
bn111120556	GRB 111120A	13:20:24.0486	344.6	-37.3	5.2	<i>Fermi</i> -GBM	17	4096	47-291	
bn111124308	GRB 111124A	07:24:10.0859	94.1	4.6	9.4	<i>Fermi</i> -GBM	13	1024	47-291	IA
bn111127810	GRB 111127A	19:27:01.6976	103.7	3.5	2.1	<i>Fermi</i> -GBM	13	1024	47-291	Mo, K, S, Me, W
bn111201599	GRB 111201A	14:22:45.2597	185.5	28.6	8.6	<i>Fermi</i> -GBM	15	2048	47-291	S
bn111203054	GRB 111203A	01:17:04.0335	53.2	33.5	3.2	<i>Fermi</i> -GBM	17	4096	47-291	S, W
bn111203609	GRB 111203B	14:36:45.3790	242.8	-22.1	13.3	<i>Fermi</i> -GBM	17	4096	47-291	
bn111207512	GRB 111207B	12:17:16.2045	164.9	-17.9	10.0	<i>Fermi</i> -GBM	12	1024	47-291	
bn111208353	GRB 111208A	08:28:10.7888	316.5	51.8	4.5	<i>Fermi</i> -GBM	14	2048	47-291	K, IA, S, W
bn111216389	GRB 111216A	09:20:31.5096	186.0	5.8	1.4	<i>Fermi</i> -GBM	13	1024	47-291	K, R, IA, Me
bn111220486	GRB 111220A	11:40:26.2423	267.6	-56.0	1.4	<i>Fermi</i> -GBM	14	2048	47-291	Mo, K, R, IA, Me
bn111221739	GRB 111221A	17:43:30.8060	10.2	-29.8	1.9	<i>Fermi</i> -GBM	5	64	47-291	Mo, K, R, IA, S, W, A
bn111222619	GRB 111222A	14:51:55.0233	179.2	69.0	0.5	IPN	1	16	47-291	Mo, K, IA, S, Me, W, ARR
bn111226795	GRB 111226A	19:04:58.2845	21.5	3.9	1.0	<i>Fermi</i> -GBM	15	2048	47-291	K, IA
bn111228453	GRB 111228B	10:52:50.5202	330.6	14.5	3.6	<i>Fermi</i> -GBM	26	64	23-47	K, A
bn111228657	GRB 111228A	15:45:30.8028	150.1	18.3	0.0	<i>Swift</i>	8	256	47-291	K, IA, S, Me, W
bn111230683	GRB 111230A	16:23:08.6037	150.2	33.4	2.8	<i>Fermi</i> -GBM	14	2048	47-291	Mo, K, IA, Me
bn111230819	GRB 111230B	19:39:32.1420	242.6	-22.1	2.0	<i>Fermi</i> -GBM	9	256	47-291	Mo, K, IA, S, Me
bn120101354	GRB 120101A	08:30:06.9076	185.9	52.9	8.8	<i>Fermi</i> -GBM	5	64	47-291	IA, S
bn120102095	GRB 120102A	02:16:23.2391	276.2	24.7	0.0	<i>Swift</i>	10	512	47-291	K, R, IA, S, Me
bn120102416	GRB 120102B	09:59:01.2725	341.1	-23.2	3.6	<i>Fermi</i> -GBM	11	512	47-291	
bn120105584	GRB 120105A	14:00:35.9014	203.7	40.1	2.8	<i>Fermi</i> -GBM	16	4096	47-291	Mo
bn120107384	GRB 120107A	09:12:15.4107	246.4	-69.9	0.5	<i>Fermi</i> -LAT	4	64	47-291	Mo, K, Me, W, L
bn120109824	GRB 120109A	19:46:01.9417	251.3	30.8	11.3	<i>Fermi</i> -GBM	15	2048	47-291	
bn120111051	GRB 120111A	01:13:27.6277	95.3	5.0	5.4	<i>Fermi</i> -GBM	17	4096	47-291	R, IA
bn120114433	GRB 120114B	10:23:39.2149	263.2	-75.6	11.1	<i>Fermi</i> -GBM	6	128	47-291	S
bn120114681	GRB 120114A	16:20:05.6800	317.9	57.0	0.0	<i>Swift</i>	17	4096	47-291	K, IA, S, Me, W

Table 5—Continued

Trigger ID	GRB Name	Time (UT)	$\alpha$ ( $^{\circ}$ )	$\delta$ ( $^{\circ}$ )	Error ( $^{\circ}$ )	Location Source	Algorithm	Timescale (ms)	Energy (keV)	Other Detections <sup>a</sup> and/or ARRs
bn120118709	GRB 120118B	17:00:22.9435	124.9	-7.2	0.1	<i>Swift</i>	14	2048	47-291	S
bn120118898	GRB 120118C	21:32:45.8056	166.6	47.9	7.2	<i>Fermi</i> -GBM	4	64	47-291	K, IA, Me
bn120119170	GRB 120119A	04:04:25.0642	120.0	-9.8	0.0	<i>Swift</i>	10	512	47-291	K, IA, S, Me
bn120119229	GRB 120119B	05:29:49.0086	139.6	-61.3	2.0	<i>Fermi</i> -GBM	5	64	47-291	Mo, K, IA, S, Me, W
bn120119354	GRB 120119C	08:29:29.8163	66.0	-33.9	4.4	<i>Fermi</i> -GBM	11	512	47-291	IA, S
bn120120432	GRB 120120A	10:21:25.4149	134.7	35.5	5.7	<i>Fermi</i> -GBM	15	2048	47-291	K
bn120121101	GRB 120121B	02:25:53.7993	235.7	-39.3	7.9	<i>Fermi</i> -GBM	17	4096	47-291	IA
bn120121251	GRB 120121C	06:00:45.2360	208.9	-1.3	1.6	<i>Fermi</i> -GBM	13	1024	47-291	K, IA, S
bn120122300	GRB 120122A	07:12:06.0365	96.6	16.5	2.7	<i>Fermi</i> -GBM	9	256	47-291	Mo, IA, S, W
bn120129312	GRB 120129B	07:29:14.0537	26.5	-8.5	15.0	IPN	10	512	47-291	
bn120129580	GRB 120129A	13:55:46.2445	30.4	59.3	0.9	IPN	4	64	47-291	K, S, Me, A
bn120130699	GRB 120130A	16:47:10.8812	150.0	-17.5	3.7	<i>Fermi</i> -GBM	9	256	47-291	K, IA, S
bn120130906	GRB 120130B	21:44:54.3314	65.0	9.5	5.6	<i>Fermi</i> -GBM	12	1024	47-291	
bn120130938	GRB 120130C	22:30:34.4655	323.3	58.6	1.0	<i>Fermi</i> -GBM	16	4096	47-291	K, IA
bn120203812	GRB 120203A	19:29:23.9764	339.3	-46.6	6.8	<i>Fermi</i> -GBM	14	2048	47-291	IA, S, W
bn120204054	GRB 120204A	01:17:07.8322	292.6	-3.6	1.0	<i>Fermi</i> -GBM	15	2048	47-291	Mo, K, IA, S, Me, W, ARR
bn120205285	GRB 120205A	06:51:05.3074	243.4	25.9	23.8	<i>Fermi</i> -GBM	10	512	47-291	
bn120206949	GRB 120206A	22:46:16.6847	73.4	58.4	2.2	<i>Fermi</i> -GBM	10	512	47-291	Mo, K, IA, S, Me, W
bn120210650	GRB 120210A	15:35:43.2811	54.7	-58.5	5.5	<i>Fermi</i> -GBM	5	64	47-291	IA, W
bn120212353	GRB 120212B	08:27:47.5895	303.4	-48.1	7.5	<i>Fermi</i> -GBM	5	64	47-291	
bn120212383	GRB 120212A	09:11:23.4980	43.1	-18.0	0.1	<i>Swift</i>	12	1024	47-291	IA, S, W
bn120213606	GRB 120213B	14:32:44.6094	183.5	5.8	4.2	<i>Fermi</i> -GBM	10	512	47-291	K, IA, W
bn120217808	GRB 120217A	19:23:50.5717	122.4	36.8	3.2	<i>Fermi</i> -GBM	6	128	47-291	K, IA, Me, W
bn120217904	GRB 120217B	21:41:57.7681	298.7	32.7	1.5	<i>Fermi</i> -GBM	5	64	47-291	Mo, K, IA, S, Me
bn120218276	GRB 120218B	06:37:02.3707	101.8	-1.4	3.6	<i>Fermi</i> -GBM	17	4096	47-291	IA
bn120219563	GRB 120219B	13:31:23.1100	274.9	-31.1	10.9	<i>Fermi</i> -GBM	9	256	47-291	W
bn120220210	GRB 120220A	05:02:21.6029	206.1	-57.4	7.4	<i>Fermi</i> -GBM	15	2048	47-291	IA
bn120222021	GRB 120222A	00:29:36.1300	299.5	26.5	2.8	<i>Fermi</i> -GBM	5	64	47-291	Mo, K, S, Me, W
bn120222119	GRB 120222A	02:51:54.0863	340.0	-36.4	5.7	<i>Fermi</i> -GBM	17	4096	47-291	
bn120223933	GRB 120223A	22:23:48.9431	219.6	-7.5	2.7	<i>Fermi</i> -GBM	6	128	47-291	K, R, IA, Me, W

Table 5—Continued

Trigger ID	GRB Name	Time (UT)	$\alpha$ ( $^{\circ}$ )	$\delta$ ( $^{\circ}$ )	Error ( $^{\circ}$ )	Location Source	Algorithm	Timescale (ms)	Energy (keV)	Other Detections <sup>a</sup> and/or ARRs
bn120224282	GRB 120224B	06:46:28.5226	118.4	41.3	4.6	<i>Fermi</i> -GBM	16	4096	47-291	K, IA, S, W
bn120224898	GRB 120224C	21:33:07.3852	331.1	10.2	3.6	<i>Fermi</i> -GBM	15	2048	47-291	Mo, K, IA, S
bn120226447	GRB 120226B	10:44:16.3850	87.6	52.3	1.1	<i>Fermi</i> -GBM	7	128	47-291	Mo, K, IA, Me, W
bn120226871	GRB 120226A	20:54:17.0267	302.9	48.7	6.0	IPN	17	4096	47-291	Mo, K, R, IA, S, Me, W, L, ARR
bn120227391	GRB 120227A	09:22:45.9705	84.8	8.5	6.3	<i>Fermi</i> -GBM	16	4096	47-291	Mo, K, IA, Me
bn120227725	GRB 120227B	17:24:41.0543	256.7	-88.9	1.2	<i>Fermi</i> -GBM	13	1024	47-291	Mo, K, IA, S, Me, W
bn120302080	GRB 120302A	01:55:34.0020	122.5	29.7	0.0	<i>Swift</i>	10	512	47-291	S, W
bn120302722	GRB 120302B	17:19:59.0822	24.1	9.7	13.9	<i>Fermi</i> -GBM	4	64	47-291	
bn120304061	GRB 120304A	01:27:48.7178	127.2	-61.1	1.0	<i>Fermi</i> -GBM	8	256	47-291	K, R, IA, W
bn120304248	GRB 120304B	05:57:47.7804	277.3	-46.2	1.0	<i>Fermi</i> -GBM	1	16	47-291	Mo, K, R, IA, Me, W
bn120308588	GRB 120308B	14:06:05.7733	30.8	55.2	1.2	<i>Fermi</i> -GBM	4	64	47-291	R, W
bn120312671	GRB 120312A	16:06:29.6672	251.8	23.9	0.0	<i>Swift</i>	15	2048	47-291	R, IA, S
bn120314412	GRB 120314A	09:52:34.6735	17.9	-48.7	17.8	<i>Fermi</i> -GBM	8	256	47-291	
bn120316008	GRB 120316A	00:11:02.5595	57.0	-56.3	0.6	IPN	17	4096	47-291	Mo, K, R, IA, S, W, L
bn120319983	GRB 120319A	23:35:04.2132	69.8	-45.4	3.7	<i>Fermi</i> -GBM	16	4096	47-291	W
bn120323162	GRB 120323B	03:52:49.2705	211.1	-45.2	3.8	<i>Fermi</i> -GBM	7	128	47-291	Mo, K, S, Me, W
bn120323507	GRB 120323A	12:10:19.7231	340.4	29.7	0.2	IPN	1	16	47-291	K, IA, S, Me, L, ARR
bn120326056	GRB 120326A	01:20:31.5128	273.9	69.3	0.0	<i>Swift</i>	10	512	47-291	K, R, S, W
bn120327418	GRB 120327B	10:01:49.2336	170.4	23.8	13.0	<i>Fermi</i> -GBM	7	128	47-291	IA
bn120328268	GRB 120328B	06:26:20.9532	228.1	22.8	1.0	<i>Fermi</i> -GBM	10	512	47-291	K, IA, S, Me, A, L
bn120331055	GRB 120331A	01:19:06.6440	26.4	-54.8	6.5	<i>Fermi</i> -GBM	1	16	47-291	Mo, IA, W, A
bn120402669	GRB 120402B	16:04:00.7578	223.7	-10.4	2.6	<i>Fermi</i> -GBM	26	64	23-47	K, IA
bn120403857	GRB 120403B	20:33:58.4931	55.3	-89.0	0.0	<i>Swift</i>	13	1024	47-291	
bn120410585	GRB 120410A	14:02:00.1923	159.6	-17.0	8.6	<i>Fermi</i> -GBM	2	32	47-291	IA, S, W
bn120411925	GRB 120411A	22:12:25.6497	38.1	-7.2	8.4	<i>Fermi</i> -GBM	9	256	47-291	Mo, IA, S
bn120412055	GRB 120412A	01:18:42.1478	29.4	-24.7	13.5	<i>Fermi</i> -GBM	13	1024	47-291	
bn120412920	GRB 120412B	22:04:40.5637	38.9	7.1	2.8	<i>Fermi</i> -GBM	9	256	47-291	K
bn120415076	GRB 120415A	01:49:57.6821	213.5	16.7	4.4	<i>Fermi</i> -GBM	11	512	47-291	K, R, IA, Me
bn120415891	GRB 120415B	21:23:41.0262	190.7	4.9	6.9	<i>Fermi</i> -GBM	4	64	47-291	IA, S
bn120415958	GRB 120415C	22:59:19.1333	150.5	61.3	5.0	<i>Fermi</i> -GBM	17	4096	47-291	K, R

Table 5—Continued

Trigger ID	GRB Name	Time (UT)	$\alpha$ ( $^{\circ}$ )	$\delta$ ( $^{\circ}$ )	Error ( $^{\circ}$ )	Location Source	Algorithm	Timescale (ms)	Energy (keV)	Other Detections <sup>a</sup> and/or ARRs
bn120420249	GRB 120420A	05:58:07.2575	47.9	-52.2	5.4	<i>Fermi</i> -GBM	11	512	47-291	K, W
bn120420858	GRB 120420B	20:35:13.0705	109.3	10.8	1.1	<i>Fermi</i> -GBM	11	512	47-291	K, IA, W
bn120426090	GRB 120426A	02:09:14.3305	111.5	-65.6	0.4	IPN	5	64	47-291	Mo, K, IA, S, Me, ARR
bn120426585	GRB 120426B	14:02:22.3555	285.5	-13.7	3.8	<i>Fermi</i> -GBM	10	512	47-291	K, IA, S
bn120427054	GRB 120427A	01:17:27.7906	224.9	29.3	0.3	IPN	8	256	47-291	Mo, K, R, IA, Me, W
bn120427153	GRB 120427B	03:40:37.8678	114.7	50.2	26.6	<i>Fermi</i> -LAT	17	4096	47-291	IA
bn120429003	GRB 120429A	00:04:07.2639	166.0	-8.8	15.4	<i>Fermi</i> -GBM	8	256	47-291	
bn120429484	GRB 120429B	11:37:03.7360	133.0	-32.2	5.3	<i>Fermi</i> -GBM	10	512	47-291	IA
bn120430980	GRB 120430A	23:30:43.3489	47.2	18.5	5.8	<i>Fermi</i> -GBM	14	2048	47-291	W
bn120504468	GRB 120504A	11:13:39.9348	329.9	46.8	4.1	<i>Fermi</i> -GBM	14	2048	47-291	
bn120504945	GRB 120504B	22:40:08.6011	200.3	-24.2	6.7	<i>Fermi</i> -GBM	11	512	47-291	IA, S
bn120506128	GRB 120506A	03:05:02.1148	172.2	-33.7	9.3	<i>Fermi</i> -GBM	10	512	47-291	
bn120509619	GRB 120509A	14:52:02.8400	195.4	38.3	16.8	<i>Fermi</i> -GBM	7	128	47-291	IA
bn120510900	GRB 120510B	21:36:26.0997	186.9	-55.2	3.8	<i>Fermi</i> -GBM	16	4096	47-291	R, IA, W
bn120511638	GRB 120511A	15:18:47.9162	226.9	-60.5	2.1	<i>Fermi</i> -GBM	9	256	47-291	K, IA, S, Me, W
bn120512112	GRB 120512A	02:41:44.3342	325.6	13.6	0.0	<i>INTEGRAL</i>	12	1024	47-291	Mo, K, R, IA, IS, S, Me, W
bn120513531	GRB 120513A	12:44:00.4653	140.8	75.0	10.8	<i>Fermi</i> -LAT	11	512	47-291	
bn120519721	GRB 120519A	17:18:14.9703	180.2	20.5	2.7	<i>Fermi</i> -GBM	4	64	47-291	Mo, K, IA, S, Me, W, A
bn120520949	GRB 120520A	22:46:24.6629	45.9	35.3	8.3	<i>Fermi</i> -GBM	8	256	47-291	S, W
bn120521380	GRB 120521B	09:07:52.3858	197.0	-52.7	0.0	<i>Swift</i>	15	2048	47-291	K, IA, S
bn120522361	GRB 120522B	08:39:16.8386	56.1	54.8	2.0	<i>Fermi</i> -GBM	13	1024	47-291	K, IA, S, Me, W
bn120524134	GRB 120524A	03:12:54.6787	358.1	-15.6	10.4	<i>Fermi</i> -GBM	4	64	47-291	
bn120526303	GRB 120526A	07:16:40.7695	66.3	-32.2	1.0	<i>Fermi</i> -GBM	15	2048	47-291	Mo, K, R, IA, S, W
bn120528442	GRB 120528A	10:36:00.2173	295.1	6.5	6.0	<i>Fermi</i> -GBM	10	512	47-291	K, IA, S, W
bn120530121	GRB 120530A	02:53:41.8622	176.0	78.8	3.3	<i>Fermi</i> -GBM	6	128	47-291	K, IA, S, Me, W
bn120531393	GRB 120531A	09:26:38.3653	290.4	1.2	11.0	<i>Fermi</i> -GBM	14	2048	47-291	
bn120603439	GRB 120603A	10:32:09.8539	198.8	4.3	0.5	IPN	5	64	47-291	K, R, IA, Me, W
bn120604220	GRB 120604A	05:16:31.3117	163.9	-7.4	9.3	<i>Fermi</i> -GBM	4	64	47-291	
bn120604343	GRB 120604B	08:13:40.1576	113.6	-2.8	11.9	<i>Fermi</i> -GBM	16	4096	47-291	R, S, W
bn120605453	GRB 120605A	10:52:15.9037	243.6	41.5	2.6	<i>Fermi</i> -GBM	9	256	47-291	Mo, K, IA, S, Me

Table 5—Continued

Trigger ID	GRB Name	Time (UT)	$\alpha$ ( $^{\circ}$ )	$\delta$ ( $^{\circ}$ )	Error ( $^{\circ}$ )	Location Source	Algorithm	Timescale (ms)	Energy (keV)	Other Detections <sup>a</sup> and/or ARR
bn120608489	GRB 120608A	11:43:51.8312	230.0	-26.1	2.5	<i>Fermi</i> -GBM	5	64	47-291	IA, S
bn120608777	GRB 120608B	18:38:33.0354	313.3	12.6	5.1	<i>Fermi</i> -GBM	12	1024	47-291	S, W
bn120609580	GRB 120609A	13:54:35.6228	67.3	13.0	7.5	<i>Fermi</i> -GBM	9	256	47-291	
bn120611108	GRB 120611A	02:36:00.5206	324.7	-44.8	5.3	<i>Fermi</i> -GBM	13	1024	47-291	
bn120612680	GRB 120612B	16:19:45.5477	211.9	34.6	7.1	<i>Fermi</i> -GBM	17	4096	47-291	
bn120612687	GRB 120612C	16:29:44.5573	39.7	-37.9	10.6	<i>Fermi</i> -GBM	4	64	47-291	K, IA, W
bn120616630	GRB 120616A	15:06:50.6386	79.7	56.4	8.5	<i>Fermi</i> -GBM	3	32	47-291	IA
bn120618128	GRB 120618A	03:03:49.8754	77.3	75.8	2.6	<i>Fermi</i> -GBM	9	256	47-291	K, R, IA, S, Me, W
bn120618919	GRB 120618B	22:03:34.3126	213.6	-2.1	4.8	<i>Fermi</i> -GBM	7	128	47-291	K, IA, Me, W
bn120619884	GRB 120619A	21:13:16.9128	190.7	-25.0	2.8	<i>Fermi</i> -GBM	7	128	47-291	IA, W
bn120624309	GRB 120624A	07:24:25.3393	4.8	7.2	0.4	IPN	4	64	47-291	K, IA, S, Me
bn120624933	GRB 120624B	22:23:54.9339	172.9	6.5	1.0	<i>Fermi</i> -GBM	14	2048	47-291	ARR
bn120625119	GRB 120625A	02:50:46.0374	51.3	51.1	1.2	<i>Fermi</i> -GBM	12	1024	47-291	K, R, IA, S, Me, W
bn120629565	GRB 120629A	13:34:11.6814	176.2	-0.6	8.9	<i>Fermi</i> -GBM	8	256	47-291	R
bn120701654	GRB 120701B	15:41:48.3152	182.7	-45.7	14.8	<i>Fermi</i> -GBM	6	128	47-291	IA, Me
bn120702891	GRB 120702A	21:23:19.1712	227.8	36.8	8.5	<i>Fermi</i> -GBM	11	512	47-291	S
bn120703417	GRB 120703B	10:01:11.6882	69.5	34.7	2.6	<i>Fermi</i> -GBM	12	1024	47-291	K, R, IA, Me
bn120703498	GRB 120703C	11:56:56.8702	210.5	46.3	5.2	<i>Fermi</i> -GBM	13	1024	47-291	
bn120703726	GRB 120703A	17:25:17.0323	339.4	-29.7	0.0	<i>Swift</i>	14	2048	47-291	K, R, IA, S, Me, ARR
bn120707800	GRB 120707A	19:12:17.4295	291.1	-34.4	1.0	<i>Fermi</i> -GBM	16	4096	47-291	Mo, K, R, IA, S, W, ARR
bn120709883	GRB 120709A	21:11:40.3666	318.4	-50.1	0.5	<i>Fermi</i> -LAT	4	64	47-291	K, IA, Me, L
bn120710100	GRB 120710A	02:23:17.0507	120.4	-31.1	4.8	<i>Fermi</i> -GBM	9	256	47-291	S, Me, W
bn120711115	GRB 120711A	02:44:53.2943	94.7	-71.0	0.0	<i>INTEGRAL</i>	8	256	47-291	K, R, IA, IS, S, Me, M, L, ARR
bn120711446	GRB 120711C	10:42:54.5709	127.9	-31.8	11.0	<i>Fermi</i> -GBM	13	1024	47-291	IA, W
bn120712571	GRB 120712A	13:42:25.6057	169.6	-20.0	0.0	<i>Swift</i>	15	2048	47-291	S
bn120713226	...	05:25:29.1390	161.7	40.7	16.7	<i>Fermi</i> -GBM	14	2048	47-291	
bn120715066	...	01:35:15.5728	272.1	58.8	3.7	<i>Fermi</i> -GBM	8	256	47-291	
bn120716577	...	13:51:02.1335	304.5	59.4	5.1	<i>Fermi</i> -GBM	17	4096	47-291	
bn120716712	GRB 120716A	17:05:03.9078	313.1	9.6	0.0	<i>Swift</i>	5	64	47-291	IP, K, S
bn120719146	...	03:30:00.8212	204.3	-43.5	1.4	<i>Fermi</i> -GBM	8	256	47-291	



Table 5—Continued

Trigger ID	GRB Name	Time (UT)	$\alpha$ ( $^\circ$ )	$\delta$ ( $^\circ$ )	Error ( $^\circ$ )	Location Source	Algorithm	Timescale (ms)	Energy (keV)	Other Detections <sup>a</sup> and/or ARRs
bn120727354	...	08:29:39.0809	163.3	25.1	15.3	<i>Fermi</i> -GBM	13	1024	47-291	
bn120727681	...	16:20:19.5291	37.8	16.4	1.0	<i>Fermi</i> -GBM	5	64	47-291	
bn120728434	GRB 120728B	10:25:24.2360	103.8	-45.9	0.5	IPN	8	256	47-291	IP, K, R, ARR
bn120728934	GRB 120728A	22:25:12.7372	137.1	-54.4	0.0	<i>Swift</i>	10	512	47-291	S
bn120729456	GRB 120729A	10:56:12.6651	13.1	49.9	0.0	<i>Swift</i>	10	512	47-291	S
bn120801920 <sup>aa</sup>	...	22:05:21.1906	245.7	-47.4	2.4	<i>Fermi</i> -GBM	13	1024	47-291	
bn120805706	...	16:56:21.7198	30.1	-21.5	10.1	<i>Fermi</i> -GBM	12	1024	47-291	
bn120806007	...	00:10:08.8657	309.0	6.3	4.2	<i>Fermi</i> -GBM	11	512	47-291	
bn120811014	GRB 120811B	00:20:30.2878	43.7	-31.7	1.4	IPN	5	64	47-291	IP, K, S
bn120811649	GRB 120811C	15:34:55.0918	199.7	62.3	0.1	<i>Fermi</i> -LAT	14	2048	47-291	S
bn120814201	...	04:49:12.5790	26.2	22.5	3.7	<i>Fermi</i> -GBM	8	256	47-291	
bn120814803	...	19:16:06.7456	90.6	33.1	10.7	<i>Fermi</i> -GBM	5	64	47-291	
bn120817057	...	01:22:09.7753	260.0	-9.1	7.1	<i>Fermi</i> -GBM	16	4096	47-291	
bn120817168	GRB 120817B	04:02:29.7231	8.3	-26.4	0.1	<i>Swift</i>	1	16	47-291	IP, S, K
bn120819048	...	01:08:26.7648	171.5	49.4	7.9	<i>Fermi</i> -GBM	13	1024	47-291	
bn120820585	...	14:02:21.9871	186.6	-12.3	4.8	<i>Fermi</i> -GBM	14	2048	47-291	
bn120822628	...	15:03:56.3989	181.7	80.6	7.7	<i>Fermi</i> -GBM	9	256	47-291	
bn120824594	...	14:16:00.7343	70.9	17.6	3.0	<i>Fermi</i> -GBM	17	4096	47-291	
bn120827216	...	05:10:25.0107	222.7	-71.9	1.7	<i>Fermi</i> -GBM	9	256	47-291	
bn120830212	...	05:04:52.7442	337.9	-80.0	3.5	<i>Fermi</i> -GBM	13	1024	47-291	
bn120830297	GRB 120830A	07:07:03.5332	88.5	-28.7	0.0	<i>Swift</i>	4	64	47-291	L, S, IP, K
bn120830702	...	16:51:36.6803	110.0	17.5	3.4	<i>Fermi</i> -GBM	12	1024	47-291	
bn120831901	...	21:37:31.8746	144.0	-16.2	8.5	<i>Fermi</i> -GBM	5	64	47-291	
bn120905657	...	15:46:21.1660	356.0	17.0	1.8	<i>Fermi</i> -GBM	14	2048	47-291	
bn120907017	GRB 120907A	00:24:24.5106	74.7	-9.3	0.0	<i>Swift</i>	12	1024	47-291	S
bn120908873	...	20:57:30.9543	268.7	-35.8	1.5	<i>Fermi</i> -GBM	7	128	47-291	
bn120908938	GRB 120908A	22:31:00.0242	230.6	-25.8	0.5	MAXI	11	512	47-291	M
bn120909070	GRB 120909A	01:41:22.3982	275.7	-59.5	0.0	<i>Swift</i>	11	512	47-291	S, M, K
bn120911298	GRB 120911A	07:08:33.9876	358.0	63.1	0.0	<i>Swift</i>	10	512	47-291	S
bn120913846	GRB 120913A	20:18:22.8873	146.4	27.0	0.1	<i>Swift</i>	13	1024	47-291	S

Table 5—Continued

Trigger ID	GRB Name	Time (UT)	$\alpha$ ( $^{\circ}$ )	$\delta$ ( $^{\circ}$ )	Error ( $^{\circ}$ )	Location Source	Algorithm	Timescale (ms)	Energy (keV)	Other Detections <sup>a</sup> and/or ARRs
bn120913997	GRB 120913B	23:55:58.7700	213.6	-14.5	0.1	<i>Swift</i>	14	2048	47-291	S
bn120914144	...	03:26:42.1140	267.9	1.8	5.3	<i>Fermi</i> -GBM	9	256	47-291	
bn120915000	...	00:00:41.6379	209.4	67.3	5.9	<i>Fermi</i> -GBM	5	64	47-291	
bn120915474	...	11:22:04.2210	283.6	-1.1	6.5	<i>Fermi</i> -GBM	15	2048	47-291	
bn120916085	...	02:02:15.9053	82.0	-19.2	11.1	<i>Fermi</i> -GBM	9	256	47-291	
bn120916173	GRB 120916A	04:08:40.7546	205.8	36.7	0.3	<i>Fermi</i> -LAT	13	1024	47-291	L, K, W, IP
bn120919052	...	01:14:23.0657	298.0	-38.1	1.6	<i>Fermi</i> -GBM	10	512	47-291	
bn120919309	GRB 120919A	07:24:41.9792	214.8	-45.6	0.4	IPN	6	128	47-291	K, IP, ARR
bn120919816	...	19:35:41.7964	303.5	-66.2	11.9	<i>Fermi</i> -GBM	15	2048	47-291	
bn120920003	...	00:04:32.7277	27.1	-26.1	7.8	<i>Fermi</i> -GBM	17	4096	47-291	
bn120921877	GRB 120921A	21:03:03.7740	96.4	-64.8	3.2	<i>Fermi</i> -GBM	4	64	47-291	
bn120922939	GRB 120922A	22:32:09.4743	234.7	-20.2	0.0	<i>Swift</i>	17	4096	47-291	S
bn120926335	...	08:02:56.5731	318.4	58.4	1.5	<i>Fermi</i> -GBM	9	256	47-291	
bn120926426	...	10:13:16.0426	59.7	-37.2	3.8	<i>Fermi</i> -GBM	10	512	47-291	
bn120926753	...	18:04:35.0992	24.6	-45.6	21.3	<i>Fermi</i> -GBM	14	2048	47-291	
bn121004211	...	05:03:18.1916	137.5	-11.0	9.4	<i>Fermi</i> -GBM	9	256	47-291	
bn121005030	...	00:42:51.8894	195.2	-2.1	9.5	<i>Fermi</i> -GBM	14	2048	47-291	
bn121005340	...	08:09:12.8647	149.7	25.4	5.4	<i>Fermi</i> -GBM	8	256	47-291	
bn121008424	...	10:10:50.6583	341.0	-3.1	9.0	<i>Fermi</i> -GBM	9	256	47-291	
bn121011469	GRB 121011A	11:15:25.6968	260.2	41.1	0.0	<i>Swift</i>	14	2048	47-291	L, S, W
bn121012724	GRB 121012A	17:22:16.3864	33.4	14.6	6.8	<i>Fermi</i> -GBM	4	64	47-291	
bn121014638	...	15:19:00.5847	320.4	-44.1	22.6	<i>Fermi</i> -GBM	11	512	47-291	
bn121019233	...	05:35:09.2262	43.5	62.1	7.5	<i>Fermi</i> -GBM	16	4096	47-291	
bn121023322	...	07:44:16.9457	313.9	-4.4	4.8	<i>Fermi</i> -GBM	4	64	47-291	
bn121027038	...	00:54:19.3682	4.3	-47.5	2.6	<i>Fermi</i> -GBM	14	2048	47-291	
bn121028280	...	06:43:13.0867	52.6	-25.1	7.7	<i>Fermi</i> -GBM	10	512	47-291	
bn121029350	GRB 121029A	08:24:19.9338	226.8	-28.2	1.6	<i>Fermi</i> -GBM	4	64	47-291	W, ARR
bn121031949	GRB 121031A	22:47:15.2674	170.8	-3.5	0.1	<i>Swift</i>	12	1024	47-291	S
bn121102064	...	01:32:47.9367	258.5	14.1	12.1	<i>Fermi</i> -GBM	11	512	47-291	
bn121104627	...	15:02:15.4945	72.1	14.1	4.1	<i>Fermi</i> -GBM	10	512	47-291	

Table 5—Continued

Trigger ID	GRB Name	Time (UT)	$\alpha$ ( $^\circ$ )	$\delta$ ( $^\circ$ )	Error ( $^\circ$ )	Location Source	Algorithm	Timescale (ms)	Energy (keV)	Other Detections <sup>a</sup> and/or ARRs
bn121109338	...	08:06:56.6318	6.8	-42.6	10.4	<i>Fermi</i> -GBM	13	1024	47-291	
bn121112806	...	19:20:44.2651	79.0	-55.4	15.6	<i>Fermi</i> -GBM	6	128	47-291	
bn121113544	...	13:02:43.5307	313.2	59.8	2.1	<i>Fermi</i> -GBM	16	4096	47-291	
bn121116459	...	11:00:24.6005	180.9	-74.8	7.0	<i>Fermi</i> -GBM	4	64	47-291	
bn121117018	...	00:25:37.7260	279.1	44.9	4.3	<i>Fermi</i> -LAT	13	1024	47-291	
bn121118576	GRB 121118A	13:48:54.2563	307.2	63.2	2.4	<i>Fermi</i> -GBM	11	512	47-291	IP
bn121119579	...	13:53:14.1341	311.6	-16.9	8.1	<i>Fermi</i> -GBM	4	64	47-291	
bn121122564	...	13:31:27.5212	52.7	46.5	12.9	<i>Fermi</i> -GBM	9	256	47-291	
bn121122870	...	20:52:49.0280	355.5	6.3	2.7	<i>Fermi</i> -GBM	11	512	47-291	
bn121122885	GRB 121122A	21:14:52.5457	43.9	48.2	1.0	<i>Fermi</i> -GBM	6	128	47-291	IP, W, K
bn121123421 <sup>bb</sup>	GRB 121123A	10:06:00.5860	307.3	-11.9	0.0	<i>Swift</i>	17	4096	47-291	S, W
bn121123442	...	10:35:55.7116	30.5	-18.8	1.6	<i>Fermi</i> -GBM	13	1024	47-291	
bn121124606	...	14:32:07.2992	87.9	49.5	14.6	<i>Fermi</i> -GBM	1	16	47-291	
bn121125356	GRB 121125A	08:32:29.6268	228.5	55.3	0.1	<i>Swift</i>	15	2048	47-291	S
bn121125469	...	11:14:47.4902	177.5	38.5	5.2	<i>Fermi</i> -GBM	15	2048	47-291	
bn121127914	GRB 121127A	21:56:00.3178	176.4	-52.4	0.3	IPN	3	32	47-291	IP, K, W
bn121128212	GRB 121128A	05:05:50.9594	300.6	54.3	0.0	<i>Swift</i>	10	512	47-291	S, K
bn121202181	GRB 121202A	04:20:09.1724	256.8	24.0	0.0	<i>Swift</i>	16	4096	47-291	S
bn121205507	...	12:10:04.7144	238.6	-49.7	11.7	<i>Fermi</i> -GBM	8	256	47-291	
bn121210081	...	01:56:01.5270	202.5	17.8	8.2	<i>Fermi</i> -GBM	14	2048	47-291	
bn121211574	GRB 121211A	13:47:03.5899	195.5	30.2	0.0	<i>Swift</i>	10	512	47-291	S
bn121211695	...	16:41:02.7692	72.4	8.6	5.2	<i>Fermi</i> -GBM	11	512	47-291	
bn121216419	...	10:03:16.4501	13.9	-85.4	14.1	<i>Fermi</i> -GBM	8	256	47-291	
bn121217313 <sup>cc</sup>	GRB 121217A	07:30:01.5788	153.7	-62.4	0.0	<i>Swift</i>	14	2048	47-291	S
bn121220311	...	07:28:13.2387	31.1	48.3	8.3	<i>Fermi</i> -GBM	10	512	47-291	
bn121221916	...	21:59:29.9697	214.3	33.5	4.2	<i>Fermi</i> -GBM	14	2048	47-291	
bn121223300	...	07:11:19.8116	50.1	21.4	2.7	<i>Fermi</i> -GBM	11	512	47-291	
bn121225417	GRB 121225B	10:00:53.5827	310.5	-34.8	1.5	<i>Fermi</i> -GBM	11	512	47-291	L, K, W, IP
bn121229533	...	12:47:33.3556	315.6	-11.9	4.6	<i>Fermi</i> -GBM	12	1024	47-291	
bn121231445	...	10:41:23.2495	335.5	-17.8	6.5	<i>Fermi</i> -GBM	13	1024	47-291	

Table 5—Continued

Trigger ID	GRB Name	Time (UT)	$\alpha$ ( $^\circ$ )	$\delta$ ( $^\circ$ )	Error ( $^\circ$ )	Location Source	Algorithm	Timescale (ms)	Energy (keV)	Other Detections <sup>a</sup> and/or ARRs
bn130104721	...	17:18:07.0494	174.1	25.9	2.4	<i>Fermi</i> -GBM	8	256	47-291	
bn130106829	...	19:53:22.0710	66.7	29.7	5.0	<i>Fermi</i> -GBM	14	2048	47-291	
bn130106995	...	23:52:25.7922	28.8	63.4	1.9	<i>Fermi</i> -GBM	14	2048	47-291	
bn130109206	...	04:56:26.2610	17.5	19.2	3.7	<i>Fermi</i> -GBM	8	256	47-291	
bn130112286	...	06:52:07.5243	236.0	52.2	4.9	<i>Fermi</i> -GBM	9	256	47-291	
bn130112353	...	08:27:47.7946	196.3	-31.9	5.8	<i>Fermi</i> -GBM	9	256	47-291	
bn130114019	...	00:27:04.5494	310.2	-15.3	10.9	<i>Fermi</i> -GBM	12	1024	47-291	
bn130115716	...	17:10:39.1815	171.1	22.6	2.8	<i>Fermi</i> -GBM	13	1024	47-291	
bn130116415	...	09:58:14.2190	38.2	15.8	29.9	<i>Fermi</i> -LAT	16	4096	47-291	
bn130117087	...	02:05:11.4251	341.2	2.8	6.2	<i>Fermi</i> -GBM	12	1024	47-291	
bn130118482	...	11:33:29.3597	278.3	41.0	6.7	<i>Fermi</i> -GBM	12	1024	47-291	
bn130121835	...	20:01:59.9675	211.3	-49.5	1.1	<i>Fermi</i> -GBM	12	1024	47-291	
bn130123843	...	20:14:19.5954	314.6	-10.87	12.34	<i>Fermi</i> -GBM	11	512	47-291	
bn130127299	...	07:09:53.1610	301.2	-57.2	10.0	<i>Fermi</i> -GBM	17	4096	47-291	
bn130127743	GRB 130127A	17:50:23.9336	251.1	-17.1	8.5	<i>Fermi</i> -GBM	1	16	47-291	
bn130131511	...	12:15:13.3852	189.6	-14.5	1.0	<i>Fermi</i> -GBM	12	1024	47-291	
bn130204484	...	11:36:51.7036	105.6	41.9	7.1	<i>Fermi</i> -GBM	1	16	47-291	
bn130206482	...	11:33:34.5031	269.1	49.4	2.4	<i>Fermi</i> -GBM	6	128	47-291	
bn130206817	GRB 130206A	19:36:30.4519	140.4	-58.2	0.1	<i>Swift</i>	14	2048	47-291	S
bn130208684	...	16:24:23.8357	181.6	50.9	4.7	<i>Fermi</i> -GBM	15	2048	47-291	
bn130209961	...	23:03:41.7934	33.6	-27.6	1.0	<i>Fermi</i> -GBM	4	64	47-291	
bn130213905	...	21:43:55.9587	99.1	-8.1	10.6	<i>Fermi</i> -GBM	15	2048	47-291	
bn130214137	...	03:17:05.6627	325.0	-1.8	12.8	<i>Fermi</i> -GBM	17	4096	47-291	
bn130214800	...	19:12:21.9995	56.9	-0.3	1.6	<i>Fermi</i> -GBM	12	1024	47-291	
bn130215063	GRB 130215A	01:31:26.0239	43.5	13.4	0.1	<i>Swift</i>	12	1024	47-291	S, W
bn130215649	...	15:34:16.1901	3.1	59.4	2.1	<i>Fermi</i> -GBM	16	4096	47-291	
bn130216790	GRB 130216B	18:58:11.6954	58.9	2.0	0.0	<i>Swift</i>	4	64	47-291	S, W
bn130216927	GRB 130216A	22:15:21.4191	67.9	14.7	0.0	<i>Swift</i>	7	128	47-291	S
bn130217688	...	16:31:19.1189	96.7	6.8	8.2	<i>Fermi</i> -GBM	12	1024	47-291	
bn130218261	...	06:16:25.5631	69.3	-69.1	2.3	<i>Fermi</i> -GBM	14	2048	47-291	

Table 5—Continued

Trigger ID	GRB Name	Time (UT)	$\alpha$ ( $^\circ$ )	$\delta$ ( $^\circ$ )	Error ( $^\circ$ )	Location Source	Algorithm	Timescale (ms)	Energy (keV)	Other Detections <sup>a</sup> and/or ARRs
bn130219197	...	04:44:07.5750	169.3	-22.2	2.2	<i>Fermi</i> -GBM	17	4096	47-291	
bn130219626	...	15:01:13.9457	211.6	12.2	16.7	<i>Fermi</i> -LAT	5	64	47-291	
bn130219775	GRB 130219A	18:35:51.7312	303.7	40.8	1.2	<i>Fermi</i> -GBM	8	256	47-291	K, W, IP
bn130220964	...	23:08:48.2020	306.2	31.7	1.1	<i>Fermi</i> -GBM	8	256	47-291	
bn130224370	...	08:53:02.3775	205.9	59.7	2.6	<i>Fermi</i> -GBM	16	4096	47-291	
bn130228111	...	02:40:02.1659	255.5	55.0	0.5	<i>Fermi</i> -LAT	12	1024	47-291	IP
bn130228212	...	05:05:57.0521	240.8	-55.2	1.3	<i>Fermi</i> -GBM	9	256	47-291	
bn130304410	...	09:49:53.0995	98.9	53.6	1.2	<i>Fermi</i> -GBM	7	128	47-291	
bn130304658	...	15:46:49.8928	178.9	-60.3	6.5	<i>Fermi</i> -GBM	12	1024	47-291	
bn130305486	GRB 130305A	11:39:11.3693	116.8	52.0	0.1	<i>Swift</i>	14	2048	47-291	L, S, K
bn130305526	...	12:37:47.7222	73.3	-1.6	1.8	<i>Fermi</i> -GBM	14	2048	47-291	
bn130306991	GRB 130306A	23:47:25.5692	279.5	-11.7	0.1	<i>Swift</i>	17	4096	47-291	S, K
bn130307126 <sup>c</sup>	GRB 130307A	03:01:44.4714	156.0	23.0	1.5	IPN	5	64	47-291	IP
bn130307238	...	05:42:19.3248	319.5	10.8	4.4	<i>Fermi</i> -GBM	17	4096	47-291	
bn130310840	GRB 130310A	20:09:41.5028	142.3	-17.2	0.5	<i>Fermi</i> -LAT	11	512	47-291	L, K, W, IP, ARR
bn130314147	...	03:31:16.2990	206.2	46.8	1.4	<i>Fermi</i> -GBM	12	1024	47-291	
bn130318456	...	10:56:31.1793	200.7	8.1	9.9	<i>Fermi</i> -GBM	15	2048	47-291	IP, K
bn130320560	GRB 130320B	13:26:34.5345	195.5	-71.3	1.0	IPN	17	4096	47-291	
bn130324042	...	01:00:24.7467	255.4	0.1	6.0	<i>Fermi</i> -GBM	17	4096	47-291	
bn130325005	...	00:07:46.8185	30.4	62.1	16.1	<i>Fermi</i> -GBM	5	64	47-291	
bn130325203	GRB 130325A	04:51:54.2982	122.8	-18.9	0.2	<i>Fermi</i> -LAT	10	512	47-291	L, K, ARR
bn130327350	GRB 130327B	08:24:04.0507	218.1	-69.5	0.2	<i>Fermi</i> -LAT	8	256	47-291	L, A, W, K, ARR
bn130331566	...	13:35:44.8699	164.5	29.6	2.4	<i>Fermi</i> -GBM	14	2048	47-291	
bn130403866	...	20:46:47.4103	199.9	-46.7	8.3	<i>Fermi</i> -GBM	16	4096	47-291	
bn130404428	...	10:15:40.0522	30.8	1.5	7.2	<i>Fermi</i> -GBM	10	512	47-291	
bn130404840	...	20:10:04.0277	146.6	-42.2	1.1	<i>Fermi</i> -GBM	9	256	47-291	
bn130404877	...	21:02:11.0293	28.3	56.5	18.2	<i>Fermi</i> -GBM	7	128	47-291	
bn130406288	...	06:55:03.4617	157.8	-62.0	2.1	<i>Fermi</i> -GBM	8	256	47-291	
bn130406334	...	08:00:36.7662	109.7	-27.9	7.7	<i>Fermi</i> -GBM	16	4096	47-291	
bn130406354	...	08:29:36.5804	138.2	42.8	14.8	<i>Fermi</i> -GBM	12	1024	47-291	

Table 5—Continued

Trigger ID	GRB Name	Time (UT)	$\alpha$ ( $^\circ$ )	$\delta$ ( $^\circ$ )	Error ( $^\circ$ )	Location Source	Algorithm	Timescale (ms)	Energy (keV)	Other Detections <sup>a</sup> and/or ARRs
bn130407800	...	7	19:12:43.0569	53.5	44.2	9.3	<i>Fermi</i> -GBM	17	4096	47-291
bn130408653	...		15:40:22.8549	118.8	66.3	3.9	<i>Fermi</i> -GBM	10	512	47-291
bn130409960	...		23:01:59.6575	30.5	44.1	2.2	<i>Fermi</i> -GBM	8	256	47-291
bn130416690	...		16:34:07.0615	99.3	24.7	14.3	<i>Fermi</i> -GBM	13	1024	47-291
bn130416770	...		18:28:53.2960	51.2	-18.2	4.9	<i>Fermi</i> -GBM	1	16	47-291
bn130418844	...		20:14:45.4863	216.5	-17.5	8.5	<i>Fermi</i> -GBM	15	2048	47-291
bn130420313	GRB 130420A		07:30:19.9249	196.1	59.4	0.0	<i>Swift</i>	14	2048	47-291 S
bn130420343	...		08:14:02.2570	122.7	-11.4	1.2	<i>Fermi</i> -GBM	15	2048	47-291
bn130420422	...		10:08:09.1981	117.1	-69.0	4.0	<i>Fermi</i> -GBM	9	256	47-291
bn130420539	GRB 130420B		12:56:32.9879	183.1	54.4	0.0	<i>Fermi</i> -LAT	10	512	47-291 S
bn130425327	GRB 130425A		07:51:16.2348	17.8	-72.8	1.5	<i>Fermi</i> -GBM	15	2048	47-291 IP, K, W
bn130427324	GRB 130427A		07:47:06.4201	173.1	27.7	0.0	<i>Swift</i>	4	64	47-291 L, S, A, IA, K, M, R, ARR
bn130502327	GRB 130502B		07:51:11.7608	66.8	71.1	0.0	<i>Swift</i>	12	1024	47-291 L, S, IP, IA, K, W $\infty$
bn130502743	GRB 130502A		17:50:30.7406	138.6	-0.1	0.0	<i>Swift</i>	8	256	47-291 S
bn130503214	...		05:08:28.9490	214.7	-11.6	21.5	<i>Fermi</i> -GBM	4	64	47-291
bn130504314	GRB 130504B		07:32:03.3860	348.0	-5.7	1.5	IPN	1	16	47-291 IP, K, W, ARR
bn130504978	GRB 130504C		23:28:57.5176	91.6	3.8	0.0	<i>Swift</i>	13	1024	47-291 L, S, K, W, ARR
bn130505955	...		22:55:15.9425	344.5	-70.5	1.5	<i>Fermi</i> -GBM	4	64	47-291
bn130507545	...		13:04:37.9807	319.7	-20.5	3.3	<i>Fermi</i> -GBM	13	1024	47-291
bn130509078	...		01:52:14.7862	240.9	-40.2	2.1	<i>Fermi</i> -GBM	11	512	47-291
bn130509839	...		20:08:43.3547	133.9	-11.5	8.8	<i>Fermi</i> -GBM	17	4096	47-291
bn130510877	...		21:03:22.3817	105.7	-9.9	5.0	<i>Fermi</i> -GBM	16	4096	47-291
bn130514560	GRB 130514B		13:26:32.5304	147.6	-19.0	0.0	<i>INTEGRAL</i>	6	128	47-291 IS, S
bn130515056	GRB 130515A		01:21:17.8757	283.4	-54.3	0.1	<i>Fermi</i> -LAT	1	16	47-291 S, K, W
bn130515430	...		10:18:30.1691	312.8	-14.9	5.4	<i>Fermi</i> -GBM	16	4096	47-291
bn130515755	...		18:06:51.3906	146.8	11.3	10.5	<i>Fermi</i> -GBM	8	256	47-291
bn130517781	...		18:44:12.9807	41.9	42.7	1.5	<i>Fermi</i> -GBM	11	512	47-291
bn130518551	...		13:13:08.6135	289.7	-4.2	2.7	<i>Fermi</i> -GBM	5	64	47-291
bn130518580	GRB 130518A		13:54:37.5254	355.7	47.5	0.1	<i>Swift</i>	17	4096	47-291 L, S, K, W
bn130522510	...		12:14:31.1354	134.1	17.6	4.9	<i>Fermi</i> -GBM	8	256	47-291

Table 5—Continued

Trigger ID	GRB Name	Time (UT)	$\alpha$ ( $^\circ$ )	$\delta$ ( $^\circ$ )	Error ( $^\circ$ )	Location Source	Algorithm	Timescale (ms)	Energy (keV)	Other Detections <sup>a</sup> and/or ARRs
bn130523095	...	02:16:09.3830	22.3	29.7	2.8	<i>Fermi</i> -GBM	13	1024	47-291	
bn130523198	...	04:45:42.2750	39.5	-63.1	2.1	<i>Fermi</i> -GBM	10	512	47-291	
bn130527627	...	15:02:14.5422	175.8	-2.5	3.1	<i>Fermi</i> -GBM	9	256	47-291	
bn130528503	...	12:04:31.3292	352.7	27.8	5.5	<i>Fermi</i> -GBM	10	512	47-291	
bn130528695	GRB 130528A	16:41:24.4088	138.7	87.3	0.1	<i>Fermi</i> -LAT	9	256	47-291	S, K
bn130530719	...	17:15:23.0060	160.9	25.2	1.0	<i>Fermi</i> -GBM	12	1024	47-291	
bn130604033 <sup>d</sup>	GRB 130604B	00:48:11.3219	292.2	-24.9	1.2	<i>Fermi</i> -GBM	8	256	47-291	
bn130606316	...	07:35:30.4051	339.4	12.5	1.7	<i>Fermi</i> -GBM	12	1024	47-291	
bn130606497	GRB 130606B	11:55:33.6313	218.6	-22.1	0.1	<i>Fermi</i> -LAT	12	1024	47-291	L, S, K, A, ARR
bn130609129	GRB 130609A	03:05:10.6896	152.7	24.1	0.1	<i>Swift</i>	12	1024	47-291	S
bn130609902	GRB 130609B	21:38:35.6097	53.8	-40.2	0.1	<i>Swift</i>	10	512	47-291	S, K, W
bn130610133	GRB 130610A	03:12:10.5020	224.4	28.2	0.1	<i>Swift</i>	16	4096	47-291	S
bn130611538	...	12:54:20.8697	238.8	-25.2	3.0	<i>Fermi</i> -GBM	10	512	47-291	
bn130612141	GRB 130612A	03:22:23.3608	259.8	16.7	0.1	<i>Swift</i>	14	2048	47-291	S
bn130612456	...	10:57:14.6280	247.9	31.0	1.8	<i>Fermi</i> -GBM	5	64	47-291	
bn130614997	GRB 130614A	23:56:09.7442	324.2	-33.9	1.2	<i>Fermi</i> -GBM	4	64	47-291	W, ARR
bn130615398	...	09:33:07.4623	184.9	69.6	6.2	<i>Fermi</i> -LAT	13	1024	47-291	
bn130617564	...	13:32:49.8501	74.7	-60.1	10.0	<i>Fermi</i> -GBM	10	512	47-291	
bn130620498	...	11:57:06.9268	74.4	61.2	12.3	<i>Fermi</i> -GBM	12	1024	47-291	
bn130622615	...	14:45:53.2039	312.7	24.5	10.9	<i>Fermi</i> -GBM	4	64	47-291	
bn130623130	...	03:06:37.1233	194.6	35.5	7.2	<i>Fermi</i> -GBM	8	256	47-291	
bn130623396	...	09:30:24.0651	203.6	49.0	7.1	<i>Fermi</i> -GBM	15	2048	47-291	
bn130623488	GRB 130623A	11:42:47.0459	20.7	-77.8	0.1	<i>Swift</i>	14	2048	47-291	S
bn130623699	...	16:46:23.7895	284.7	10.7	26.3	<i>Fermi</i> -GBM	17	4096	47-291	
bn130623790	...	18:57:50.9852	107.4	36.0	4.6	<i>Fermi</i> -GBM	12	1024	47-291	
bn130624093	...	02:13:56.0837	337.3	11.4	6.9	<i>Fermi</i> -GBM	17	4096	47-291	
bn130626452	GRB 130626A	10:51:03.8143	273.1	-9.5	0.1	<i>Swift</i>	5	64	47-291	S
bn130626596	...	14:17:32.4917	24.9	4.9	4.0	<i>Fermi</i> -GBM	14	2048	47-291	
bn130627372	GRB 130627A	08:55:05.9345	184.4	-37.1	0.1	<i>Swift</i>	10	512	47-291	S
bn130628531	GRB 130628	12:44:02.1213	6.3	-5.1	1.7	<i>Fermi</i> -GBM	10	512	47-291	W, ARR

Table 5—Continued

Trigger ID	GRB Name	Time (UT)	$\alpha$ ( $^{\circ}$ )	$\delta$ ( $^{\circ}$ )	Error ( $^{\circ}$ )	Location Source	Algorithm	Timescale (ms)	Energy (keV)	Other Detections <sup>a</sup> and/or ARRs
bn130628860	...	20:38:01.7893	312.8	6.1	5.0	<i>Fermi</i> -GBM	1	16	47-291	
bn130630272	...	06:31:19.6994	170.0	60.1	1.0	<i>Fermi</i> -GBM	8	256	47-291	
bn130701060	GRB 130701B	01:27:06.2735	97.8	-60.1	1.0	<i>Fermi</i> -GBM	14	2048	47-291	
bn130701761	...	18:15:30.7128	325.9	-30.9	1.7	<i>Fermi</i> -GBM	5	64	47-291	
bn130702004	GRB 130702A	00:05:23.0788	217.3	15.8	0.0	<i>Swift</i>	12	1024	47-291	L, S, IP, K, W
bn130702951	...	22:48:59.5262	292.2	10.4	12.9	<i>Fermi</i> -GBM	12	1024	47-291	
bn130704560	...	13:26:07.2534	65.6	-14.5	1.0	<i>Fermi</i> -GBM	8	256	47-291	
bn130705398	...	09:33:03.9591	156.3	47.4	19.4	<i>Fermi</i> -GBM	2	32	47-291	
bn130706900	...	21:36:07.8100	299.4	56.5	10.4	<i>Fermi</i> -GBM	1	16	47-291	
bn130707505	...	12:07:48.9256	54.5	-21.0	5.4	<i>Fermi</i> -GBM	12	1024	47-291	
bn130708488	GRB 130708A	11:43:04.2690	17.5	0.0	0.0	<i>Swift</i>	13	1024	47-291	S
bn130715906	GRB 130715A	21:44:09.6416	287.4	-31.1	1.0	<i>Fermi</i> -GBM	15	2048	47-291	W
bn130716352	...	08:26:19.2033	348.9	45.3	6.3	<i>Fermi</i> -GBM	14	2048	47-291	
bn130716442	GRB 130716A	10:36:53.5881	179.6	63.1	0.0	<i>Swift</i>	6	128	47-291	S
bn130717734	...	17:36:20.1112	256.6	-13.6	12.1	<i>Fermi</i> -GBM	9	256	47-291	
bn130720116	...	02:46:40.7204	243.5	15.0	6.6	<i>Fermi</i> -GBM	8	256	47-291	
bn130720582	...	13:57:40.4895	338.0	-9.4	1.0	<i>Fermi</i> -GBM	12	1024	47-291	
bn130722021	...	00:29:51.0063	119.9	-47.5	10.1	<i>Fermi</i> -GBM	14	2048	47-291	
bn130722990	...	23:46:11.7126	352.4	-22.3	2.7	<i>Fermi</i> -GBM	8	256	47-291	
bn130723092	...	02:12:34.1223	217.8	-16.9	8.2	<i>Fermi</i> -GBM	8	256	47-291	
bn130725527	...	12:38:40.7701	42.5	64.8	2.3	<i>Fermi</i> -GBM	9	256	47-291	
bn130727698	GRB 130727A	16:45:20.9109	330.8	-65.5	0.0	<i>Swift</i>	10	512	47-291	S, K
bn130730243	...	05:50:19.7425	133.8	-60.4	3.4	<i>Fermi</i> -GBM	14	2048	47-291	
bn130802730	...	17:31:52.8030	80.3	-7.6	12.9	<i>Fermi</i> -GBM	4	64	47-291	
bn130803419	GRB 130803A	10:02:53.7526	220.3	-2.5	0.0	<i>Swift</i>	11	512	47-291	S
bn130804023	GRB 130804A	00:33:15.5270	280.0	-76.2	2.3	<i>Fermi</i> -GBM	1	16	47-291	IP, K, ARR
bn130808253	...	06:04:33.6912	162.7	33.4	10.0	<i>Fermi</i> -GBM	4	64	47-291	
bn130811186	...	04:28:01.6869	192.9	-17.0	3.4	<i>Fermi</i> -GBM	17	4096	47-291	
bn130813791	...	18:59:22.7579	204.0	56.3	10.5	<i>Fermi</i> -GBM	14	2048	47-291	
bn130815420	...	10:05:07.8860	164.7	49.6	1.6	<i>Fermi</i> -GBM	14	2048	47-291	



Table 5—Continued

Trigger ID	GRB Name	Time (UT)	$\alpha$ ( $^\circ$ )	$\delta$ ( $^\circ$ )	Error ( $^\circ$ )	Location Source	Algorithm	Timescale (ms)	Energy (keV)	Other Detections <sup>a</sup> and/or ARRs
bn130815660	...	15:50:52.2174	112.4	-2.1	1.0	<i>Fermi</i> -GBM	11	512	47-291	
bn130816074	GRB 130816A	01:46:28.5150	197.1	-58.9	0.0	<i>Swift</i>	9	256	47-291	S
bn130818941	...	22:34:33.7852	192.3	57.6	2.2	<i>Fermi</i> -GBM	11	512	47-291	
bn130819394	...	09:27:34.0994	124.7	-33.8	4.9	<i>Fermi</i> -GBM	16	4096	47-291	
bn130821674	GRB 130821A	16:10:28.0107	314.1	-12.0	0.1	<i>Fermi</i> -LAT	11	512	47-291	L, S, K, IP, ARR
bn130828306	GRB 130828A	07:20:00.1535	259.8	28.2	0.3	IPN	16	4096	47-291	L, S, IP, ARR
bn130828808	...	19:23:54.0005	188.2	27.9	2.4	<i>Fermi</i> -GBM	8	256	47-291	
bn130829672	...	16:08:01.0727	258.5	6.0	1.7	<i>Fermi</i> -GBM	13	1024	47-291	
bn130830864	...	20:44:49.5488	143.0	-0.6	7.7	<i>Fermi</i> -GBM	14	2048	47-291	
bn130830921	...	22:06:33.5068	351.0	-51.6	10.5	<i>Fermi</i> -GBM	15	2048	47-291	
bn130831058	...	01:24:13.7933	267.5	61.0	8.1	<i>Fermi</i> -GBM	14	2048	47-291	
bn130903033	GRB 130903A	00:47:32.3749	82.1	-0.1	0.0	<i>Swift</i>	17	4096	47-291	S, IS
bn130905377	...	09:02:11.4575	275.9	-2.3	2.2	<i>Fermi</i> -GBM	9	256	47-291	
bn130906222	...	05:19:30.5381	194.1	4.2	12.4	<i>Fermi</i> -GBM	17	4096	47-291	
bn130906435	...	10:26:25.2972	279.4	-53.4	7.6	<i>Fermi</i> -GBM	9	256	47-291	
bn130907760 <sup>e</sup>	...	18:14:46.5866	236.6	-25.1	7.4	<i>Fermi</i> -GBM	8	256	47-291	
bn130908677	...	16:14:23.3416	219.2	-7.2	8.8	<i>Fermi</i> -GBM	17	4096	47-291	
bn130909817 <sup>f</sup>	...	19:36:08.8968	198.2	-20.8	17.2	<i>Fermi</i> -GBM	14	2048	47-291	
bn130912358	GRB 130912A	08:34:57.9958	47.6	14.0	0.0	<i>Swift</i>	1	16	47-291	S, K
bn130919173	...	04:09:40.2611	297.4	-11.7	5.3	<i>Fermi</i> -GBM	1	16	47-291	
bn130919352	...	08:27:04.7354	59.8	48.5	5.7	<i>Fermi</i> -GBM	11	512	47-291	
bn130919985	...	23:38:13.6953	242.2	-48.3	9.1	<i>Fermi</i> -GBM	8	256	47-291	
bn130924255	...	06:06:49.0796	28.8	-7.1	6.0	<i>Fermi</i> -GBM	14	2048	47-291	
bn130924910	...	21:51:01.6397	78.6	39.3	5.9	<i>Fermi</i> -GBM	9	256	47-291	
bn130925164 <sup>g</sup>	GRB 130925A	03:56:23.2864	41.2	-26.1	0.0	<i>Swift</i>	16	4096	47-291	
bn130925173 <sup>g</sup>	GRB 130925A	04:09:26.7335	41.2	-26.1	0.0	<i>Swift</i>	13	1024	47-291	S, Nu, K, M, ARR
bn130925546	...	13:05:43.1266	83.4	55.3	4.1	<i>Fermi</i> -GBM	15	2048	47-291	
bn130928537	...	12:52:35.1931	306.9	-44.2	3.3	<i>Fermi</i> -GBM	13	1024	47-291	
bn130929375	...	09:00:13.0055	200.9	2.8	19.7	<i>Fermi</i> -GBM	15	2048	47-291	
bn131002288	GRB 131002A	06:55:06.9937	253.2	82.1	0.0	<i>Swift</i>	16	4096	47-291	S

Table 5—Continued

Trigger ID	GRB Name	Time (UT)	$\alpha$ ( $^\circ$ )	$\delta$ ( $^\circ$ )	Error ( $^\circ$ )	Location Source	Algorithm	Timescale (ms)	Energy (keV)	Other Detections <sup>a</sup> and/or ARRs
bn131004904	GRB 131004A	21:41:03.6823	296.1	-3.0	0.0	<i>Swift</i>	9	256	47-291	S
bn131006367	GRB 131006	08:48:21.3645	325.4	-26.6	18.5	<i>Fermi</i> -GBM	7	128	47-291	
bn131006840	GRB 131006	20:09:52.7074	139.4	-0.9	5.9	<i>Fermi</i> -GBM	12	1024	47-291	
bn131008858	GRB 131008	20:36:02.7926	328.0	-26.0	2.5	<i>Fermi</i> -GBM	11	512	47-291	
bn131011741	GRB 131011A	17:47:34.9871	32.5	-4.4	0.0	<i>Swift</i>	12	1024	47-291	S
bn131014215	GRB 131014A	05:09:00.2020	100.5	-19.1	0.5	<i>Fermi</i> -LAT	4	64	47-291	S, L, W, IP, K, ARR
bn131014513	...	12:18:36.1569	15.1	21.4	6.9	<i>Fermi</i> -GBM	13	1024	47-291	
bn131018673	GRB 131018B	16:08:39.1814	304.4	23.1	0.1	<i>Fermi</i> -LAT	12	1024	47-291	L, S
bn131020113	...	02:42:25.9168	209.0	51.1	19.8	<i>Fermi</i> -GBM	12	1024	47-291	
bn131021352	...	08:26:45.4506	329.1	-25.4	6.4	<i>Fermi</i> -GBM	4	64	47-291	
bn131024900	GRB 131024B	21:35:28.8457	144.5	44.3	0.0	<i>Swift</i>	16	4096	47-291	S, W
bn131028076	GRB 131028A	01:49:02.3456	57.0	72.2	1.0	IPN	8	256	47-291	K, IP
bn131028096 <sup>dd</sup>	...	02:17:51.4315	333.4	-56.9	6.6	<i>Fermi</i> -GBM	13	1024	47-291	
bn131029973	GRB 131029A	23:20:48.5784	200.8	48.3	0.3	<i>Fermi</i> -LAT	15	2048	47-291	L, W
bn131029990	...	23:45:53.9333	110.3	-1.4	5.8	<i>Fermi</i> -GBM	14	2048	47-291	
bn131030653	...	15:40:25.7561	61.5	-62.8	7.8	<i>Fermi</i> -GBM	13	1024	47-291	
bn131030791	...	18:59:45.7718	186.3	-5.3	4.3	<i>Fermi</i> -GBM	10	512	47-291	
bn131031482	GRB 131031A	11:33:32.8223	29.6	-1.6	0.0	<i>Swift</i>	8	256	47-291	S, K
bn131102622	...	14:55:44.6227	74.1	-28.0	14.8	<i>Fermi</i> -GBM	15	2048	47-291	
bn131105087	GRB 131105A	02:04:53.4912	71.0	-63.0	0.1	<i>Swift</i>	11	512	47-291	S, K
bn131108024 <sup>ee</sup>	...	00:34:42.8280	353.6	33.9	4.7	<i>Fermi</i> -GBM	10	512	47-291	
bn131108862	GRB 131108A	20:41:55.7586	156.5	9.7	0.0	<i>Swift</i>	4	64	47-291	L, S, K, IP, A, ARR
bn131110373	...	08:57:01.3429	9.8	8.2	4.0	<i>Fermi</i> -GBM	15	2048	47-291	
bn131113483	...	11:35:37.1574	158.0	-41.5	1.2	<i>Fermi</i> -GBM	14	2048	47-291	
bn131117766	...	18:23:30.4572	213.3	-2.5	2.1	<i>Fermi</i> -GBM	15	2048	47-291	
bn131118958	GRB 131118A	22:58:57.4652	349.9	-66.8	0.1	IPN	13	1024	47-291	K, IP
bn131119781	...	18:44:47.8739	48.0	-24.0	7.3	<i>Fermi</i> -GBM	10	512	47-291	
bn131122490	...	11:45:05.3967	261.7	33.4	1.7	<i>Fermi</i> -GBM	15	2048	47-291	
bn131123543 <sup>ff</sup>	...	13:01:58.1342	53.2	-20.9	8.3	<i>Fermi</i> -GBM	11	512	47-291	
bn131125689	GRB 131125A	16:32:51.0475	114.7	48.4	2.2	IPN	9	256	47-291	K, IP

Table 5—Continued

Trigger ID	GRB Name	Time (UT)	$\alpha$ ( $^\circ$ )	$\delta$ ( $^\circ$ )	Error ( $^\circ$ )	Location Source	Algorithm	Timescale (ms)	Energy (keV)	Other Detections <sup>a</sup> and/or ARRs
bn131126163	GRB 131126A	03:54:10.4314	215.4	53.5	2.3	IPN	1	16	47-291	K, IP
bn131127480	...	11:31:00.5888	49.4	-5.7	4.1	<i>Fermi</i> -GBM	11	512	47-291	
bn131127592	GRB 131127B	14:12:18.3627	306.1	-0.8	1.0	<i>Fermi</i> -GBM	12	1024	47-291	K, IP
bn131127696	...	16:41:46.3426	246.3	33.9	8.7	<i>Fermi</i> -GBM	14	2048	47-291	
bn131128629	GRB 131128A	15:06:25.2829	355.3	31.3	0.0	<i>Swift</i>	12	1024	47-291	S
bn131202633	GRB 131202A	15:12:10.8514	344.1	-21.7	0.0	<i>Swift</i>	16	4096	47-291	S
bn131202906	...	21:45:20.4196	169.7	21.2	2.2	<i>Fermi</i> -GBM	15	2048	47-291	
bn131204937	...	22:28:57.7867	309.7	-69.7	4.4	<i>Fermi</i> -GBM	10	512	47-291	
bn131209547	GRB 131209A	13:07:56.9681	136.5	-33.2	0.9	<i>Fermi</i> -LAT	13	1024	47-291	L, K, IP
bn131209963	...	23:06:16.4060	253.9	72.6	6.1	<i>Fermi</i> -GBM	9	256	47-291	
bn131211510	...	12:14:49.9648	271.3	-40.6	3.6	<i>Fermi</i> -GBM	12	1024	47-291	
bn131212814	...	19:32:29.8550	273.6	18.1	15.3	<i>Fermi</i> -GBM	14	2048	47-291	
bn131214705	...	16:55:55.5955	183.9	-6.3	1.0	<i>Fermi</i> -GBM	9	256	47-291	
bn131215298	...	07:08:45.1966	104.1	68.3	1.4	<i>Fermi</i> -GBM	12	1024	47-291	
bn131216081	GRB 131216A	01:56:32.0627	91.6	-35.5	2.2	<i>Fermi</i> -GBM	4	64	47-291	L, IP, W, ARR
bn131217108	...	02:36:11.5637	86.6	30.6	6.4	<i>Fermi</i> -GBM	9	256	47-291	
bn131217183	...	04:23:28.0599	227.7	25.2	3.1	<i>Fermi</i> -GBM	5	64	47-291	
bn131217506	...	12:08:26.4341	57.5	43.2	10.8	<i>Fermi</i> -GBM	13	1024	47-291	
bn131229277	GRB 131229A	06:39:24.4835	85.2	-4.4	0.0	<i>Swift</i>	5	64	47-291	S, K, W
bn131230529	...	12:41:27.1162	91.1	64.3	11.1	<i>Fermi</i> -GBM	15	2048	47-291	
bn131230808	...	19:24:09.9048	73.1	4.8	3.9	<i>Fermi</i> -GBM	16	4096	47-291	
bn131231198	GRB 131231A	04:45:16.0832	10.6	-1.6	0.0	<i>Swift</i>	13	1024	47-291	L, S, K, ARR
bn140102887	GRB 140102A	21:17:37.8107	211.9	1.3	0.0	<i>Swift</i>	4	64	47-291	L, S, M, K, ARR
bn140104731	GRB 140104B	17:32:03.1501	218.8	-8.9	0.2	<i>Fermi</i> -LAT	14	2048	47-291	L, S, W
bn140105065	GRB 140105A	01:33:01.0137	208.2	50.2	6.1	<i>Fermi</i> -GBM	5	64	47-291	
bn140105748	...	17:56:32.6420	252.9	19.0	4.0	<i>Fermi</i> -GBM	8	256	47-291	
bn140106345	...	08:16:43.3570	2.3	-8.8	15.8	<i>Fermi</i> -GBM	13	1024	47-291	
bn140108721	GRB 140108A	17:18:42.9877	325.1	58.7	0.0	<i>Swift</i>	13	1024	47-291	S, W
bn140109771	...	18:30:06.1606	102.7	29.8	10.0	<i>Fermi</i> -GBM	8	256	47-291	
bn140109877	...	21:03:26.3853	24.1	-25.1	37.5	<i>Fermi</i> -GBM	6	128	47-291	

Table 5—Continued

Trigger ID	GRB Name	Time (UT)	$\alpha$ ( $^\circ$ )	$\delta$ ( $^\circ$ )	Error ( $^\circ$ )	Location Source	Algorithm	Timescale (ms)	Energy (keV)	Other Detections <sup>a</sup> and/or ARRs
bn140110263	GRB 140110A	06:18:37.9358	28.9	-36.3	0.5	<i>Fermi</i> -LAT	8	256	47-291	L, S, IP
bn140110411	...	09:52:04.2697	50.6	-69.3	11.7	<i>Fermi</i> -GBM	9	256	47-291	
bn140110814	...	19:31:34.4468	31.9	65.2	3.2	<i>Fermi</i> -GBM	11	512	47-291	
bn140112060	...	01:26:46.8944	8.4	12.0	7.1	<i>Fermi</i> -GBM	12	1024	47-291	
bn140113183	...	04:23:55.4740	75.6	3.2	10.0	<i>Fermi</i> -GBM	16	4096	47-291	
bn140113624	...	14:58:25.7934	329.4	18.1	12.3	<i>Fermi</i> -GBM	8	256	47-291	
bn140115863	...	20:43:18.1771	210.0	-61.4	2.2	<i>Fermi</i> -GBM	9	256	47-291	
bn140115899 <sup>h</sup>	...	21:35:11.5049	94.9	-48.9	5.2	<i>Fermi</i> -GBM	11	512	47-291	
bn140118064	GRB 140118A	01:32:07.8481	331.0	-17.9	0.1	<i>Swift</i>	16	4096	47-291	S
bn140122597	...	14:19:47.7825	56.1	15.1	5.3	<i>Fermi</i> -GBM	9	256	47-291	
bn140124527	...	12:38:31.1932	64.2	38.5	2.0	<i>Fermi</i> -GBM	9	256	47-291	
bn140126815	...	19:33:41.6432	208.7	31.3	5.8	<i>Fermi</i> -GBM	9	256	47-291	
bn140129499	...	11:59:01.6314	183.4	-10.3	9.1	<i>Fermi</i> -GBM	2	32	47-291	
bn140204547	...	13:07:02.5600	166.1	62.5	5.6	<i>Fermi</i> -GBM	17	4096	47-291	
bn140206275	GRB 140206B	06:36:12.8433	315.3	-8.5	0.2	<i>Fermi</i> -LAT	7	128	47-291	L, K, ARR
bn140206304 <sup>i</sup>	GRB 140206A	07:18:15.9826	145.3	66.8	0.0	<i>Swift</i>	14	2048	47-291	S, IS
bn140209313	GRB 140209A	07:30:58.2301	81.3	32.5	0.0	<i>Swift</i>	9	256	47-291	S, K, ARR
bn140211091	...	02:10:41.1630	115.8	-13.6	4.0	<i>Fermi</i> -GBM	11	512	47-291	
bn140213807	...	19:21:32.3478	105.2	-73.1	0.0	<i>Swift</i>	9	256	47-291	S, K, ARR
bn140216331	...	07:56:04.5922	194.0	31.5	13.7	<i>Fermi</i> -GBM	8	256	47-291	
bn140217043	...	01:01:41.9986	359.4	76.8	3.1	<i>Fermi</i> -GBM	8	256	47-291	
bn140218427	...	10:14:29.3275	347.5	44.5	3.6	<i>Fermi</i> -GBM	16	4096	47-291	
bn140219319 <sup>j</sup>	...	07:38:54.4495	221.9	50.0	8.2	<i>Fermi</i> -GBM	9	256	47-291	
bn140219824	GRB 140219A	19:46:32.2410	158.2	7.2	2.2	<i>Fermi</i> -LAT	13	1024	47-291	L, IP, K, W, M
bn140223495	...	11:53:06.1193	141.1	-30.4	5.6	<i>Fermi</i> -GBM	13	1024	47-291	
bn140224382	...	09:10:17.1667	2.8	20.4	5.9	<i>Fermi</i> -GBM	9	256	47-291	
bn140224788	...	18:55:19.8242	23.7	39.5	3.7	<i>Fermi</i> -GBM	14	2048	47-291	
bn140227738	...	17:43:06.5865	235.3	31.5	8.2	<i>Fermi</i> -GBM	16	4096	47-291	
bn140302342	GRB 140302A	08:12:58.8880	253.9	-12.9	0.0	<i>Swift</i>	5	64	47-291	S
bn140304557	GRB 140304A	13:22:31.4824	30.6	33.5	0.0	<i>Swift</i>	12	1024	47-291	S, W

Table 5—Continued

Trigger ID	GRB Name	Time (UT)	$\alpha$ ( $^\circ$ )	$\delta$ ( $^\circ$ )	Error ( $^\circ$ )	Location Source	Algorithm	Timescale (ms)	Energy (keV)	Other Detections <sup>a</sup> and/or ARRs
bn140304849	...	20:22:30.1436	354.2	-27.0	3.3	<i>Fermi</i> -GBM	15	2048	47-291	
bn140306146	GRB 140306A	03:29:44.9509	27.9	49.0	0.2	IPN	4	64	47-291	W, K, IP, ARR
bn140308710	...	17:02:38.6734	350.2	73.0	2.7	<i>Fermi</i> -GBM	10	512	47-291	
bn140311453	...	10:52:04.8683	39.0	-25.2	5.3	<i>Fermi</i> -GBM	13	1024	47-291	
bn140311618	GRB 140311C	14:49:13.0958	183.6	62.8	3.3	<i>Fermi</i> -GBM	8	256	47-291	
bn140311885	GRB 140311B	21:14:35.6463	252.3	52.7	0.1	<i>Swift</i>	12	1024	47-291	S
bn140319964	...	23:08:30.3595	136.0	81.5	3.6	<i>Fermi</i> -GBM	6	128	47-291	
bn140320092	GRB 140320A	02:12:46.1129	281.9	-11.2	0.1	<i>Swift</i>	6	128	47-291	S
bn140322424	...	10:11:03.4647	250.3	-69.5	6.6	<i>Fermi</i> -GBM	15	2048	47-291	
bn140323433	GRB 140323A	10:22:53.1198	357.0	-79.9	0.0	<i>Swift</i>	13	1024	47-291	L, S, K, W
bn140327065	...	01:33:05.8481	283.1	-6.2	5.3	<i>Fermi</i> -GBM	11	512	47-291	
bn140328560	...	13:26:26.0279	320.0	18.0	14.7	<i>Fermi</i> -GBM	13	1024	47-291	
bn140329272	...	06:31:21.7737	92.3	-41.1	9.2	<i>Fermi</i> -GBM	2	32	47-291	
bn140329295 <sup>k</sup>	GRB 140329A	07:04:38.3296	145.7	-32.2	0.2	<i>Fermi</i> -LAT	1	16	47-291	L, K, IP, ARR
bn140330180	GRB 140330A	04:19:54.4722	328.1	-57.7	0.4	IPN	11	512	47-291	K, A, IP
bn140402007	GRB 140402A	00:10:06.9977	207.6	6.0	0.1	<i>Swift</i>	5	64	47-291	L, S
bn140404030 <sup>l</sup>	...	00:43:26.0896	14.9	78.9	4.9	<i>Fermi</i> -GBM	14	2048	47-291	
bn140404171	...	04:06:47.5138	172.7	33.2	2.2	<i>Fermi</i> -GBM	17	4096	47-291	
bn140404900	...	21:36:17.6202	101.8	-7.0	2.6	<i>Fermi</i> -GBM	12	1024	47-291	
bn140405033	...	00:47:02.5210	119.1	-26.9	3.9	<i>Fermi</i> -GBM	8	256	47-291	
bn140406120	...	02:52:13.7577	357.5	5.6	2.6	<i>Fermi</i> -GBM	4	64	47-291	
bn140406144	GRB 140406A	03:26:48.1850	70.1	13.5	5.9	<i>Fermi</i> -GBM	14	2048	47-291	
bn140408553	GRB 140408A	13:15:55.2421	290.7	-12.6	0.0	<i>Swift</i>	12	1024	47-291	S
bn140414693	...	16:38:37.9657	45.7	13.8	2.3	<i>Fermi</i> -GBM	8	256	47-291	
bn140416060	GRB 140416A	01:26:40.9386	35.4	43.9	1.0	<i>Fermi</i> -GBM	5	64	47-291	K, IP
bn140422194	...	04:38:45.4114	164.5	-62.6	6.8	<i>Fermi</i> -GBM	16	4096	47-291	
bn140423356	GRB 140423A	08:32:38.5410	197.3	49.8	0.0	<i>Swift</i>	15	2048	47-291	S, K
bn140426515	...	12:21:32.7403	174.5	-13.9	12.5	<i>Fermi</i> -GBM	17	4096	47-291	
bn140427702	...	16:50:21.0705	131.9	27.5	23.3	<i>Fermi</i> -GBM	17	4096	47-291	
bn140428906	GRB 140428B	21:44:38.5990	2.0	68.2	0.4	IPN	1	16	47-291	K, IP

Table 5—Continued

Trigger ID	GRB Name	Time (UT)	$\alpha$ ( $^\circ$ )	$\delta$ ( $^\circ$ )	Error ( $^\circ$ )	Location Source	Algorithm	Timescale (ms)	Energy (keV)	Other Detections <sup>a</sup> and/or ARRs
bn140429975	...	23:24:41.7860	338.6	34.8	6.1	<i>Fermi</i> -GBM	16	4096	47-291	
bn140430716 <sup>m</sup>	...	17:11:23.8101	146.4	-36.9	1.8	<i>Fermi</i> -GBM	10	512	47-291	
bn140501139 <sup>n</sup>	GRB 140501A	03:19:41.4055	171.9	24.6	10.7	<i>Fermi</i> -GBM	5	64	47-291	
bn140501497	...	11:55:10.4896	62.8	43.2	2.7	<i>Fermi</i> -GBM	9	256	47-291	
bn140502354	GRB 140502A	08:30:20.1071	319.2	49.0	0.0	<i>Swift</i>	14	2048	47-291	S
bn140506880	GRB 140506A	21:07:36.8773	276.8	-55.6	0.0	<i>Fermi</i> -LAT	5	64	47-291	S, K
bn140508128	GRB 140508A	03:03:54.5981	255.5	46.8	0.0	<i>Swift</i>	8	256	47-291	S, K, IP, ARR
bn140508179	...	04:17:41.4590	350.5	-63.8	5.0	<i>Fermi</i> -GBM	13	1024	47-291	
bn140508629	...	15:05:26.1372	272.1	72.5	3.6	<i>Fermi</i> -GBM	13	1024	47-291	
bn140511095	...	02:17:11.5603	329.8	-30.1	8.8	<i>Fermi</i> -GBM	2	32	47-291	
bn140511995	...	23:53:09.4954	26.2	-24.9	3.6	<i>Fermi</i> -GBM	17	4096	47-291	
bn140512814	GRB 140512A	19:31:42.5024	289.4	-15.1	0.1	<i>Swift</i>	17	4096	47-291	S, K
bn140513724	...	17:22:12.2776	248.4	-19.5	3.9	<i>Fermi</i> -GBM	10	512	47-291	
bn140516700	...	16:47:38.6622	115.2	4.3	7.8	<i>Fermi</i> -GBM	15	2048	47-291	
bn140516765	...	18:21:00.8348	74.3	32.8	3.8	<i>Fermi</i> -GBM	10	512	47-291	
bn140517813 <sup>o</sup>	...	19:31:17.6918	127.8	13.6	2.2	<i>Fermi</i> -GBM	10	512	47-291	
bn140518709	...	17:00:43.4248	244.0	-77.9	13.4	<i>Fermi</i> -GBM	11	512	47-291	
bn140519043	...	01:01:44.9548	278.5	34.4	5.4	<i>Fermi</i> -GBM	14	2048	47-291	
bn140521184	...	04:25:12.1435	308.7	38.9	10.1	<i>Fermi</i> -GBM	17	4096	47-291	
bn140521732	GRB 140521A	17:34:18.7308	320.0	67.6	0.1	<i>Swift</i>	5	64	47-291	S
bn140523129	GRB 140523A	03:05:57.6249	133.3	25.0	0.4	<i>Fermi</i> -LAT	7	128	47-291	L, K, IP
bn140526449	...	10:47:04.8390	131.2	-4.2	3.7	<i>Fermi</i> -GBM	15	2048	47-291	
bn140526571	...	13:42:54.7192	143.0	-10.9	6.2	<i>Fermi</i> -GBM	6	128	47-291	
bn140528837	GRB 140528A	20:05:22.7497	280.7	-59.1	0.4	IPN	10	512	47-291	K, IP, ARR
bn140603476	...	11:24:59.1393	217.4	25.9	2.1	<i>Fermi</i> -GBM	10	512	47-291	
bn140605377	...	09:02:50.6508	121.8	-53.9	6.1	<i>Fermi</i> -GBM	1	16	47-291	
bn140606133	GRB 140606B	03:11:51.8624	328.1	32.0	0.0	IPN	8	256	47-291	S, K, IP
bn140608153	...	03:41:00.9766	151.2	-50.3	1.3	<i>Fermi</i> -GBM	14	2048	47-291	
bn140608713	...	17:07:10.5093	212.0	53.8	2.9	<i>Fermi</i> -GBM	8	256	47-291	
bn140610487	...	11:41:21.7575	199.1	35.9	8.2	<i>Fermi</i> -GBM	8	256	47-291	

Table 5—Continued

Trigger ID	GRB Name	Time (UT)	$\alpha$ ( $^\circ$ )	$\delta$ ( $^\circ$ )	Error ( $^\circ$ )	Location Source	Algorithm	Timescale (ms)	Energy (keV)	Other Detections <sup>a</sup> and/or ARRs
bn140610548	...	13:09:06.4014	121.7	6.3	1.0	<i>Fermi</i> -GBM	15	2048	47-291	
bn140610689	GRB 140610A	16:31:28.5839	286.3	3.9	0.1	<i>Swift</i>	17	4096	47-291	S, K
bn140612294	...	07:03:33.3133	267.4	-64.1	4.7	<i>Fermi</i> -GBM	15	2048	47-291	
bn140616165	...	03:57:05.1331	104.9	-70.5	7.0	<i>Fermi</i> -GBM	5	64	47-291	
bn140619475	GRB 140619B	11:24:40.5200	132.7	-9.7	0.1	<i>Fermi</i> -LAT	4	64	47-291	L, W
bn140619490	...	11:46:01.5322	305.0	-39.2	4.3	<i>Fermi</i> -GBM	5	64	47-291	
bn140620219	GRB 140620A	05:15:28.0167	281.9	49.7	0.0	<i>Swift</i>	16	4096	47-291	S
bn140621827	GRB 140621A	19:50:10.8941	25.1	22.4	0.7	IPN	1	16	47-291	K, W, IP
bn140623224	GRB 140623A	05:22:06.6009	225.5	81.2	0.0	iPTF	16	4096	47-291	
bn140624423	GRB 140624A	10:08:40.8955	23.2	-0.6	4.6	<i>Fermi</i> -GBM	1	16	47-291	ARR
bn140626843	...	20:14:14.2478	120.8	38.8	6.6	<i>Fermi</i> -GBM	6	128	47-291	
bn140627401	...	09:37:59.9156	66.5	-16.8	13.6	<i>Fermi</i> -GBM	16	4096	47-291	
bn140628626	...	15:01:36.1224	226.0	-25.8	13.0	<i>Fermi</i> -GBM	17	4096	47-291	
bn140628704	...	16:53:18.9797	359.1	31.6	9.0	<i>Fermi</i> -GBM	14	2048	47-291	
bn140630505	...	12:07:52.8230	27.6	47.7	2.2	<i>Fermi</i> -GBM	14	2048	47-291	
bn140701567	...	13:36:11.0738	351.5	-28.7	3.8	<i>Fermi</i> -GBM	13	1024	47-291	
bn140701833	...	19:59:35.2574	285.4	-32.6	4.3	<i>Fermi</i> -GBM	15	2048	47-291	
bn140703026	GRB 140703A	00:37:07.1903	13.0	45.1	0.0	<i>Swift</i>	14	2048	47-291	S
bn140705539	...	12:55:28.7403	163.9	57.0	5.8	<i>Fermi</i> -GBM	14	2048	47-291	
bn140706815	GRB 140706A	19:33:33.8638	49.3	-38.1	0.0	<i>Swift</i>	17	4096	47-291	S
bn140709051	GRB 140709A	01:13:41.3769	304.6	51.2	0.1	<i>Swift</i>	12	1024	47-291	S
bn140709637	GRB 140709B	15:17:52.8533	146.1	63.5	0.0	<i>Swift</i>	12	1024	47-291	S
bn140710537	...	12:53:05.5155	2.8	-38.9	6.4	<i>Fermi</i> -GBM	5	64	47-291	
bn140710901	GRB 140710B	21:37:37.9351	204.6	-58.6	0.0	<i>INTEGRAL</i>	16	4096	47-291	IS
bn140711691	...	16:35:24.5665	166.0	-24.6	8.5	<i>Fermi</i> -GBM	17	4096	47-291	

p

<sup>a</sup>Other instrument detections: Mo: Mars Observer, K: Konus-Wind, R: RHESSI, IA: *INTEGRAL* SPI-ACS, IS: *INTEGRAL* IBIS-ISGRI, S: *Swift*, Me: Messenger, W: *Suzaku*, A: *AGILE*, M: *MAXI*, L: *Fermi* LAT, Nu: NuSTAR, iPTF: intermediate Palomar Transient Factory, ARR: Autonomous

Repoint Requests by GBM FSW

<sup>aa</sup>GRB120801 There is a delayed emission at  $T_0 + \sim 400$ s.

<sup>b</sup>GRB091024A triggered GBM twice.

<sup>bb</sup>GRB121123A GBM did not trigger on pre-trigger which triggered Swift;  $T_{90}$  is incorrect

<sup>c</sup>GRB130307A possible precursors of this trigger were unobservable since it triggered soon after SAA exit.

<sup>cc</sup>GRB121217A Swift triggered  $\sim 12$  min before  $T_0$ . This GRB has several episodes well separated in time. Hence  $T_{90}$  is possibly incorrect

<sup>d</sup>GRB130604B Fermi enters SAA  $\sim 105$ s after trigger.

<sup>dd</sup>GRB131028 This GRB triggered during a X1.0 Solar Flare.

<sup>e</sup>GRB130907 Fermi enters SAA  $\sim 130$ s after trigger.

<sup>ee</sup>GRB131108 A second GRB131108A occurred  $\sim 225$ s after this GRB triggered.

<sup>f</sup>GRB130909 Fermi enters SAA  $\sim 53$ s after trigger.

<sup>ff</sup>GRB131123 This GRB triggered during a M1.0 Solar Flare.

<sup>g</sup>GRB130925A triggered GBM twice.

<sup>h</sup>GRB140115 Fermi enters SAA  $\sim 50$ s after trigger.

<sup>i</sup>GRB130206A Swift-BAT triggered at 07:17:20 UT on first emission period of GRB1140206A, GBM on the second pulse at Swift  $T_0 + 56$ s.

<sup>j</sup>GRB140219 Fermi enters SAA  $\sim 9$ s after trigger.

<sup>k</sup>GRB140329A Fermi enters SAA  $\sim 120$ s after trigger.

<sup>l</sup>GRB140404 There is a precursor at  $T_0 - 70$ s.

<sup>m</sup>GRB140329 Fermi enters SAA  $\sim 155$ s after trigger.

<sup>n</sup>GRB140329A Fermi enters SAA  $\sim 60$ s after trigger.

<sup>o</sup>GRB140517 Fermi enters SAA  $\sim 65$ s after trigger.

<sup>p</sup>GRB140627 Fermi enters SAA  $\sim 190$ s after trigger.



Table 6. GRB Durations (50–300 keV)

Trigger ID	Detectors Used	$T_{90}$ (s)	$T_{90}$ start (s)	$T_{50}$ (s)	$T_{50}$ start (s)
bn080714086	3+4+8	$5.376 \pm 2.360$	-0.768	$2.816 \pm 0.810$	-0.256
bn080714425	0+9+10	$40.192 \pm 1.145$	-4.352	$11.776 \pm 1.619$	-1.280
bn080714745	5	$59.649 \pm 11.276$	-0.512	$25.088 \pm 7.940$	2.560
bn080715950	0+1+2+9+10	$7.872 \pm 0.272$	0.128	$6.144 \pm 0.264$	1.088
bn080717543	2+10	$36.609 \pm 2.985$	-5.376	$13.056 \pm 0.810$	1.024
bn080719529	6+7+9	$16.128 \pm 17.887$	-4.352	$8.448 \pm 1.280$	-2.048
bn080720316 <sup>a</sup>	6+7+9	$16.128 \pm 17.887$	-4.352	$8.448 \pm 1.280$	-2.048
bn080723557	4	$58.369 \pm 1.985$	2.368	$40.513 \pm 0.231$	14.208
bn080723913	0+1+3	$0.192 \pm 0.345$	-0.064	$0.064 \pm 0.143$	-0.064
bn080723985	2+5	$42.817 \pm 0.659$	3.072	$25.280 \pm 0.405$	12.160
bn080724401	3+4+6+7+8	$379.397 \pm 2.202$	10.816	$348.421 \pm 0.923$	17.216
bn080725435	0+1+3	$25.920 \pm 1.208$	-2.816	$10.048 \pm 0.320$	4.096
bn080725541	6+7+8	$0.960 \pm 1.292$	-0.128	$0.316 \pm 0.178$	0.004
bn080727964	0+3+4+6+7	$89.089 \pm 6.476$	-13.312	$21.504 \pm 2.290$	4.096
bn080730520	0+1+9+10	$17.408 \pm 6.229$	-0.576	$4.096 \pm 1.448$	2.496
bn080730786	0+1+6+9+10	$13.312 \pm 4.222$	-0.576	$4.096 \pm 1.448$	0.448
bn080802386	4+5	$0.576 \pm 0.091$	-0.064	$0.448 \pm 0.091$	0.000
bn080803772	0+1+2+5	$26.240 \pm 1.691$	-0.256	$11.072 \pm 0.462$	3.520
bn080804456	0+1+2+3+5	$501.830 \pm 6.476$	-8.704	$450.629 \pm 2.896$	3.584
bn080804972	6+7+8+11	$24.704 \pm 1.460$	0.256	$10.432 \pm 0.429$	3.520
bn080805496	0+1+3	$29.440 \pm 3.566$	-1.792	$17.408 \pm 1.846$	1.024
bn080805584	3+4+5	$65.665 \pm 14.676$	-4.864	$23.808 \pm 1.202$	1.536
bn080806584	1+2+5	$2.304 \pm 0.453$	-2.112	$0.960 \pm 0.202$	-1.152
bn080806896	0+1+2+9	$75.777 \pm 4.185$	-35.328	$28.032 \pm 1.382$	1.216
bn080807993	0+1+2+5	$19.072 \pm 0.181$	0.000	$15.808 \pm 0.143$	0.512
bn080808451	0+1+2+5	$4.352 \pm 0.832$	-1.536	$2.048 \pm 0.640$	-0.512
bn080808565	6+7+8+11	$17.728 \pm 1.489$	1.728	$5.248 \pm 0.320$	4.352
bn080808772	0+1+3	$211.970 \pm 6.557$	-170.562	$66.561 \pm 2.896$	-109.121
bn080809808	2+10	$28.160 \pm 2.896$	-9.728	$12.800 \pm 2.290$	-2.560
bn080810549	6+7+8+11	$107.457 \pm 15.413$	-20.096	$37.120 \pm 0.923$	5.952
bn080812889	3+4	$15.040 \pm 0.462$	-1.792	$7.488 \pm 0.286$	1.664
bn080815917	9+10	$0.832 \pm 0.320$	-0.320	$0.384 \pm 0.181$	-0.128
bn080816503	0+1+3+4+5	$64.769 \pm 1.810$	1.280	$23.296 \pm 0.572$	36.097
bn080816989	7+8+9+10+11	$4.608 \pm 0.453$	-0.064	$0.896 \pm 0.580$	0.128
bn080817161	1+2+5	$60.289 \pm 0.466$	2.048	$16.064 \pm 0.202$	7.744
bn080817720	3+4+8	$4.416 \pm 0.363$	-0.080	$1.536 \pm 0.345$	1.072
bn080818579	3+4+5	$59.329 \pm 8.749$	-2.944	$33.852 \pm 1.491$	0.005

Table 6—Continued

Trigger ID	Detectors Used	$T_{90}$ (s)	$T_{90}$ start (s)	$T_{50}$ (s)	$T_{50}$ start (s)
bn080818945	1+3+5	$13.376 \pm 0.410$	-0.512	$6.080 \pm 0.466$	0.832
bn080821332	3+4	$5.888 \pm 0.264$	-1.280	$1.920 \pm 0.181$	0.256
bn080823363	1+3+4+5	$43.457 \pm 1.717$	-1.280	$15.424 \pm 0.842$	5.760
bn080824909	0+1+3	$7.424 \pm 2.005$	-3.264	$2.752 \pm 0.231$	0.320
bn080825593	0+1+2+9+10	$20.992 \pm 0.231$	1.216	$12.160 \pm 0.091$	3.072
bn080828189	1+2	$3.008 \pm 3.329$	-0.128	$1.280 \pm 0.202$	0.064
bn080829790	1+2	$7.680 \pm 0.377$	-0.320	$3.520 \pm 0.264$	1.088
bn080830368	0+1+3	$40.896 \pm 5.069$	-1.536	$9.088 \pm 0.724$	7.168
bn080831053 <sup>b</sup>	2+5	$0.576 \pm 1.168$	-0.288	$0.064 \pm 0.631$	-0.064
bn080831921	9+10+11	$74.497 \pm 1.243$	1.344	$50.689 \pm 1.056$	7.936
bn080904886	0+1+3+9	$17.344 \pm 1.385$	-2.560	$4.608 \pm 0.373$	4.032
bn080905499	3+6+7	$0.960 \pm 0.345$	-0.064	$0.704 \pm 0.143$	0.000
bn080905570	8+11	$26.624 \pm 2.896$	-7.168	$9.211 \pm 2.287$	0.005
bn080905705	7+8+11	$105.984 \pm 6.802$	-5.120	$78.336 \pm 1.056$	0.768
bn080906212	0+1+3+5	$2.875 \pm 0.767$	0.005	$1.280 \pm 0.362$	0.576
bn080912360	6+7+8+11	$16.384 \pm 2.896$	-3.072	$5.114 \pm 2.415$	0.006
bn080913735	9+10	$41.217 \pm 7.281$	-0.256	$10.240 \pm 3.238$	10.240
bn080916009	0+3+4+6+7	$62.977 \pm 0.810$	1.280	$32.000 \pm 0.724$	6.656
bn080916406	7+8+11	$46.337 \pm 7.173$	0.512	$18.432 \pm 0.810$	2.560
bn080919790	1+2+5	$0.512 \pm 0.405$	-0.128	$0.128 \pm 0.091$	-0.064
bn080920268	0+1+3+9	$113.921 \pm 3.125$	-3.328	$51.457 \pm 2.673$	3.584
bn080924766	0+1+2+9+10	$39.937 \pm 4.222$	-11.264	$13.307 \pm 1.444$	0.005
bn080925775	3+6+7+8	$31.744 \pm 3.167$	-1.024	$9.216 \pm 1.448$	4.096
bn080927480	7+8	$45.313 \pm 3.083$	-0.256	$11.520 \pm 1.950$	2.816
bn080928628	0+3+4+6+7	$14.336 \pm 4.007$	-1.792	$8.704 \pm 0.810$	-0.256
bn081003644	3+4	$50.177 \pm 3.692$	-3.072	$17.408 \pm 1.448$	9.728
bn081006604	0+1+3	$6.400 \pm 0.923$	-0.256	$2.301 \pm 0.571$	0.003
bn081006872	0+1+3	$3.328 \pm 1.305$	-0.512	$1.536 \pm 0.810$	-0.256
bn081008832	0+1+2+5	$150.015 \pm 12.892$	0.004	$110.338 \pm 1.280$	7.680
bn081009140	3+4+7+8	$41.345 \pm 0.264$	1.344	$2.688 \pm 0.091$	2.432
bn081009690 <sup>c</sup>	7+8+11	$176.191 \pm 2.127$	0.003	$25.088 \pm 1.145$	3.136
bn081012045	9+10+11	$1.216 \pm 1.748$	-0.576	$0.512 \pm 0.362$	0.000
bn081012549	6+9+10+11	$30.721 \pm 5.615$	-5.376	$6.912 \pm 0.724$	0.256
bn081017474	1+2+9+10	$28.416 \pm 2.757$	-13.056	$8.448 \pm 1.619$	-3.328
bn081021398	4+5	$26.112 \pm 3.974$	-1.008	$10.496 \pm 1.145$	2.064
bn081022364	3+4+5	$17.152 \pm 3.727$	-2.560	$5.376 \pm 1.305$	-0.512
bn081024245	8+10+11	$0.832 \pm 1.282$	-0.832	$0.512 \pm 0.231$	-0.576

Table 6—Continued

Trigger ID	Detectors Used	$T_{90}$ (s)	$T_{90}$ start (s)	$T_{50}$ (s)	$T_{50}$ start (s)
bn081024851	1+3+4+5	$56.065 \pm 2.064$	-0.512	$24.320 \pm 1.086$	7.168
bn081024891	0+6+7+9	$0.640 \pm 0.264$	-0.064	$0.384 \pm 0.181$	0.000
bn081025349	3+4+7+8	$22.528 \pm 0.724$	-0.512	$16.384 \pm 0.923$	2.048
bn081028538	9+10+11	$13.312 \pm 1.280$	-7.936	$2.816 \pm 0.362$	-0.256
bn081101167	4+5	$9.984 \pm 9.051$	-7.936	$4.096 \pm 1.086$	-4.608
bn081101491	6+7+9	$0.128 \pm 0.091$	-0.064	$0.064 \pm 0.091$	0.000
bn081101532	2+5	$8.256 \pm 0.889$	-0.256	$4.416 \pm 0.320$	1.920
bn081102365	0+1+2+5	$1.728 \pm 0.231$	-0.064	$1.216 \pm 0.143$	0.128
bn081102739	0+3+4	$34.817 \pm 2.415$	-0.512	$17.152 \pm 1.493$	3.840
bn081105614	1+2+5	$1.280 \pm 1.368$	-0.064	$0.128 \pm 0.091$	-0.064
bn081107321	6+7+9+10+11	$1.664 \pm 0.234$	-0.192	$0.896 \pm 0.143$	0.256
bn081109293	0+1+2+9+10	$58.369 \pm 5.221$	-6.912	$17.408 \pm 2.290$	2.304
bn081110601	7+8	$11.776 \pm 2.573$	0.256	$4.608 \pm 1.056$	0.512
bn081113230	3+4	$0.576 \pm 1.350$	0.000	$0.320 \pm 0.143$	0.000
bn081115891	0+1+3+4+5	$0.320 \pm 0.653$	-0.192	$0.192 \pm 0.264$	-0.192
bn081118876	0+1+3+5	$20.736 \pm 1.379$	0.256	$4.608 \pm 0.724$	5.376
bn081119184	7+8+11	$0.320 \pm 0.680$	-0.320	$0.192 \pm 0.231$	-0.256
bn081120618	1+2+5	$25.344 \pm 0.923$	-1.280	$4.608 \pm 0.572$	0.256
bn081121858	10+11	$41.985 \pm 8.510$	1.536	$9.472 \pm 1.145$	6.656
bn081122520	0+1+3	$23.296 \pm 2.111$	-0.256	$13.568 \pm 0.362$	0.768
bn081122614	3+4+6+7+8	$0.192 \pm 0.091$	-0.064	$0.128 \pm 0.091$	-0.064
bn081124060	3+4+7+8	$19.456 \pm 1.086$	0.512	$9.728 \pm 0.724$	4.864
bn081125496	10+11	$9.280 \pm 0.607$	0.512	$3.200 \pm 0.181$	2.176
bn081126899	0+1+3	$54.145 \pm 0.923$	-18.048	$31.233 \pm 0.362$	0.768
bn081129161	10+11	$62.657 \pm 7.318$	-0.128	$16.384 \pm 2.290$	1.088
bn081130212	7+8+11	$2.240 \pm 1.002$	-0.064	$1.280 \pm 0.905$	0.064
bn081130629	9+10+11	$45.569 \pm 3.908$	-38.657	$28.417 \pm 1.864$	-25.856
bn081204004	0+1+2+9+10	$7.424 \pm 1.846$	-5.632	$1.280 \pm 0.923$	-0.768
bn081204517	6+7+8+11	$0.192 \pm 0.286$	-0.064	$0.128 \pm 0.091$	-0.064
bn081206275	9+10+11	$24.576 \pm 5.724$	-11.264	$10.752 \pm 0.724$	-1.792
bn081206604	3+4+5	$7.936 \pm 4.382$	-2.048	$3.072 \pm 1.619$	-1.024
bn081206987	9+10+11	$22.528 \pm 2.919$	-5.888	$5.888 \pm 0.923$	-0.768
bn081207680	0+1+9+10	$97.282 \pm 2.347$	5.888	$35.905 \pm 0.462$	24.896
bn081209981	8+11	$0.192 \pm 0.143$	-0.064	$0.128 \pm 0.143$	-0.064
bn081213173	0+1+2+5	$0.256 \pm 0.286$	-0.256	$0.192 \pm 0.202$	-0.192
bn081215784	9+10+11	$5.568 \pm 0.143$	1.216	$3.392 \pm 0.091$	1.728
bn081215880	2+5	$7.680 \pm 2.064$	-0.256	$5.632 \pm 0.724$	0.512

Table 6—Continued

Trigger ID	Detectors Used	$T_{90}$ (s)	$T_{90}$ start (s)	$T_{50}$ (s)	$T_{50}$ start (s)
bn081216531	7+8+11	$0.768 \pm 0.429$	0.000	$0.128 \pm 0.091$	0.512
bn081217983	6+7+8+9+11	$29.696 \pm 12.892$	-12.032	$7.424 \pm 0.724$	3.584
bn081221681	1+2	$29.697 \pm 0.410$	3.328	$7.488 \pm 0.143$	19.392
bn081222204	0+1+2	$18.880 \pm 2.318$	0.384	$4.672 \pm 0.231$	2.368
bn081223419	6+7+9	$0.576 \pm 0.143$	-0.064	$0.256 \pm 0.143$	0.000
bn081224887	6+7+9	$16.448 \pm 1.159$	0.736	$4.672 \pm 0.202$	2.336
bn081225257	0+1+2+5	$41.217 \pm 5.667$	-18.688	$14.592 \pm 0.923$	-7.680
bn081226044	2+10	$0.832 \pm 1.032$	-0.192	$0.320 \pm 0.264$	-0.128
bn081226156	3+6+7+8	$65.793 \pm 1.619$	-55.553	$41.473 \pm 0.572$	-34.560
bn081226509	6+7+9	$0.192 \pm 0.143$	-0.064	$0.128 \pm 0.143$	-0.064
bn081229187	0+3+4+6	$0.768 \pm 0.724$	-0.256	$0.256 \pm 0.572$	0.000
bn081229675 <sup>a</sup>	0+3+4+6	$0.768 \pm 0.724$	-0.256	$0.256 \pm 0.572$	0.000
bn081230871	0+1+6+7+9	$0.512 \pm 0.272$	-0.128	$0.256 \pm 0.202$	-0.064
bn081231140	6+7+9	$28.736 \pm 2.611$	0.640	$16.832 \pm 0.462$	6.080
bn090101758	9+10	$108.802 \pm 1.619$	-0.256	$6.144 \pm 0.724$	89.858
bn090102122	9+10+11	$26.624 \pm 0.810$	1.536	$9.728 \pm 0.572$	6.400
bn090107681	11	$18.432 \pm 2.896$	-2.048	$9.212 \pm 1.445$	0.004
bn090108020	0+1+2+5	$0.704 \pm 0.143$	-0.064	$0.256 \pm 0.091$	0.000
bn090108322	0+1+2+10	$0.192 \pm 0.143$	-0.064	$0.128 \pm 0.143$	-0.064
bn090109332	8+11	$1.728 \pm 0.820$	-0.256	$0.512 \pm 0.202$	-0.192
bn090112332	0+1+3	$58.369 \pm 4.783$	-15.104	$24.320 \pm 2.064$	1.536
bn090112729	9+10	$14.080 \pm 5.126$	-0.768	$4.864 \pm 0.362$	1.792
bn090113778	0+1+2+9	$17.408 \pm 3.238$	-2.048	$6.141 \pm 1.446$	0.004
bn090117335	3+4+7+8	$27.264 \pm 1.286$	-0.384	$25.152 \pm 0.320$	0.384
bn090117632	0+1+9+10	$75.777 \pm 3.238$	-50.177	$41.985 \pm 5.120$	-22.528
bn090117640	0+1+2+9	$15.552 \pm 4.580$	-5.248	$2.240 \pm 2.084$	-0.128
bn090120627	1+2+5	$1.856 \pm 0.181$	-0.512	$1.024 \pm 0.143$	-0.192
bn090126227	6+7+9	$5.632 \pm 0.810$	-1.792	$2.816 \pm 0.572$	-0.768
bn090126245	3+4+6+7+8	$0.960 \pm 0.231$	-0.384	$0.640 \pm 0.143$	-0.256
bn090129880	0+1+3	$16.640 \pm 3.328$	-0.256	$6.144 \pm 2.290$	1.024
bn090131090	0+6+9+10	$35.073 \pm 1.056$	3.072	$22.272 \pm 0.362$	6.656
bn090202347	0+1+2+5	$12.608 \pm 0.345$	0.192	$5.376 \pm 0.181$	4.096
bn090206620	7+9+10+11	$0.320 \pm 0.143$	-0.064	$0.128 \pm 0.143$	0.000
bn090207777	0+1+2+9+10	$24.832 \pm 3.899$	-0.512	$7.424 \pm 0.923$	1.280
bn090213236	0+1+3+7	$20.224 \pm 6.192$	-4.096	$12.032 \pm 3.114$	-2.304
bn090217206	6+7+9+11	$33.280 \pm 0.724$	0.832	$9.728 \pm 0.362$	4.672
bn090219074	5	$0.448 \pm 0.272$	-0.064	$0.256 \pm 0.345$	0.000

Table 6—Continued

Trigger ID	Detectors Used	$T_{90}$ (s)	$T_{90}$ start (s)	$T_{50}$ (s)	$T_{50}$ start (s)
bn090222179	9+10+11	17.408 ± 3.238	-2.048	8.192 ± 1.448	1.024
bn090225009	4	2.176 ± 2.833	-1.664	1.600 ± 0.286	-1.536
bn090227310	0+1+3+7	16.189 ± 0.831	0.003	7.424 ± 1.056	1.856
bn090227772	0+1+2	1.280 ± 1.026	-0.064	0.192 ± 0.091	0.000
bn090228204	0+1+3	0.448 ± 0.143	0.000	0.128 ± 0.091	0.000
bn090228976	6+7+9	7.936 ± 1.379	0.000	3.584 ± 1.145	0.512
bn090301315	0+1+3+4+5	23.296 ± 2.064	-17.664	5.632 ± 0.572	-3.584
bn090304216	6+7+8+9	2.816 ± 0.923	-0.256	2.048 ± 0.572	0.256
bn090305052	0+1+3+5	1.856 ± 0.580	-0.064	0.448 ± 0.091	0.256
bn090306245	0+1+3	27.904 ± 14.857	-2.816	11.264 ± 2.573	-0.256
bn090307167	9+10+11	29.440 ± 1.810	-5.120	18.432 ± 1.846	-1.792
bn090308734	3+4+6+7+8	1.664 ± 0.286	-0.320	0.576 ± 0.091	0.256
bn090309767	0+1+6+9	56.513 ± 5.146	-0.512	8.896 ± 0.916	34.561
bn090310189	7+8+11	116.930 ± 1.056	-0.384	57.089 ± 4.783	7.232
bn090316311	9+10+11	10.240 ± 1.557	-9.728	5.632 ± 0.572	-5.632
bn090319622	6+7+9	54.785 ± 2.202	-12.544	25.600 ± 1.086	5.888
bn090320045	6+7+9+11	2.368 ± 0.272	-2.112	1.344 ± 0.231	-1.664
bn090320418	6+7+8+11	7.936 ± 1.296	-1.664	2.624 ± 0.792	-0.768
bn090320801	9+10+11	29.184 ± 4.536	-0.512	10.240 ± 4.382	1.024
bn090323002	6+7+9+11	135.170 ± 1.448	8.192	53.249 ± 2.290	34.816
bn090326633	2+9+10	16.128 ± 3.208	-9.216	6.656 ± 0.724	-0.768
bn090327404	0+1+2+5	14.080 ± 1.379	1.280	5.888 ± 0.810	3.840
bn090328401	3+6+7+8	61.697 ± 1.810	4.352	14.592 ± 0.572	12.288
bn090328713	9+10+11	0.192 ± 1.032	-0.064	0.128 ± 0.143	0.000
bn090330279	6+7+9+10+11	73.473 ± 1.717	-51.969	21.248 ± 1.145	-6.144
bn090331681	6+7+9	0.832 ± 0.143	-0.064	0.704 ± 0.181	-0.064
bn090403314	3+6+7+8	14.848 ± 1.846	-2.304	6.656 ± 0.810	-0.512
bn090405663	7+8+11	0.448 ± 1.498	-0.064	0.192 ± 0.231	-0.064
bn090409288	3+4+5	30.337 ± 2.796	-24.064	12.736 ± 1.920	-8.960
bn090411838	0+2	21.501 ± 3.237	0.003	9.216 ± 1.448	3.072
bn090411991	4+5	14.336 ± 1.086	0.768	6.912 ± 0.724	4.352
bn090412061	3+4+8	0.896 ± 0.264	-0.832	0.128 ± 0.091	-0.128
bn090413122	6+7+8+9+11	32.513 ± 4.360	-22.272	9.216 ± 4.104	-3.072
bn090418816	7+8	0.320 ± 0.405	-0.064	0.256 ± 0.202	-0.064
bn090419997	0+1+2+5	166.915 ± 11.723	-65.793	58.113 ± 3.328	4.352
bn090422150	0+1+9	9.216 ± 0.362	-0.512	8.448 ± 0.362	-0.256
bn090423330	2+9+10	7.168 ± 2.415	-5.888	3.072 ± 1.280	-3.584

Table 6—Continued

Trigger ID	Detectors Used	$T_{90}$ (s)	$T_{90}$ start (s)	$T_{50}$ (s)	$T_{50}$ start (s)
bn090424592	6+7+8+11	14.144 ± 0.264	0.512	3.072 ± 0.091	1.280
bn090425377	4	75.393 ± 2.450	3.584	9.344 ± 0.286	58.177
bn090426066	0+1+3+4+5	16.128 ± 5.152	-1.792	4.096 ± 1.056	-1.536
bn090426690	0+1+2+5	7.488 ± 2.496	-1.152	1.984 ± 0.272	0.320
bn090427644	6+7+9	1.024 ± 0.362	-1.792	0.256 ± 0.572	-1.536
bn090427688	1+2+5	12.288 ± 1.280	-1.024	6.400 ± 0.572	1.536
bn090428441	8+11	3.968 ± 1.506	-0.192	1.152 ± 0.716	0.448
bn090428552	4+5	31.489 ± 11.846	-8.448	7.168 ± 1.493	-0.256
bn090429530	2+10	14.336 ± 4.007	-2.560	5.628 ± 0.571	0.004
bn090429753	0+1+9	0.640 ± 0.466	-0.192	0.256 ± 0.143	0.000
bn090502777	7+8+11	66.048 ± 1.619	-9.728	41.984 ± 0.572	0.256
bn090509215	7+8+9+11	283.844 ± 2.463	-1.280	245.763 ± 1.448	5.056
bn090510016	6+7+9	0.960 ± 0.138	-0.048	0.256 ± 0.143	0.528
bn090510325	10+11	7.424 ± 1.717	-1.024	3.328 ± 0.923	0.256
bn090511684	9+10+11	7.616 ± 1.605	-1.472	2.496 ± 0.320	0.000
bn090513916	7+8+11	25.280 ± 7.146	-1.024	11.008 ± 1.691	4.480
bn090513941	5	11.776 ± 2.064	-3.840	6.400 ± 1.280	-1.792
bn090514006	0+1+3	43.521 ± 1.739	0.128	26.240 ± 1.105	1.600
bn090514726	7+8	2.240 ± 0.286	-0.640	0.636 ± 0.140	0.004
bn090514734	4+8	54.401 ± 4.077	-3.072	18.688 ± 1.086	6.592
bn090516137	3+6+7+8	118.018 ± 4.028	10.048	44.289 ± 3.005	50.753
bn090516353	0+3	123.074 ± 2.896	-36.097	47.297 ± 2.290	-2.304
bn090516853	3+4	14.464 ± 3.093	-0.096	6.173 ± 1.469	0.003
bn090518080	3+5	2.048 ± 0.410	-0.640	0.960 ± 0.181	-0.192
bn090518244	8+11	6.784 ± 1.000	-0.384	3.072 ± 1.145	0.256
bn090519462	3+6+7+9	91.329 ± 3.692	-18.944	31.937 ± 1.448	-10.752
bn090519881	0+1+2+9+10	74.177 ± 5.177	-1.536	26.625 ± 1.145	3.776
bn090520832	6+9	0.768 ± 0.834	-0.448	0.256 ± 0.181	-0.256
bn090520850	3+4+8	3.776 ± 0.923	-0.384	2.048 ± 0.572	0.320
bn090520876	0+1+3+5	30.657 ± 0.859	-18.176	7.104 ± 0.528	-0.768
bn090522344	3+4+6+7	20.288 ± 6.262	-4.864	5.184 ± 0.590	0.448
bn090524346	3+4+6+7+8	54.337 ± 0.870	0.896	37.121 ± 0.264	5.696
bn090528173 <sup>d</sup>	1+2+9+10	35.905 ± 2.187	-6.656	17.408 ± 0.604	1.216
bn090528516	3+4+6+7+8	79.041 ± 1.088	4.352	31.553 ± 0.320	12.544
bn090529310	6+7+9+11	3.072 ± 0.362	-0.512	1.792 ± 0.572	0.000
bn090529564	3+4+7+8	9.853 ± 0.179	0.003	8.576 ± 0.091	0.704
bn090530760	1+2+5	127.554 ± 1.319	3.392	58.753 ± 0.373	12.160

Table 6—Continued

Trigger ID	Detectors Used	$T_{90}$ (s)	$T_{90}$ start (s)	$T_{50}$ (s)	$T_{50}$ start (s)
bn090531775	6+7+9	$0.768 \pm 0.231$	0.000	$0.384 \pm 0.231$	0.256
bn090602564	10+11	$20.736 \pm 7.209$	-1.536	$7.168 \pm 1.086$	1.024
bn090606471	2+10	$8.064 \pm 1.262$	-1.280	$5.568 \pm 0.771$	-0.384
bn090608052	1+2+5	$21.504 \pm 2.290$	-16.384	$6.144 \pm 1.448$	-4.096
bn090610648	1+3+4+5	$6.144 \pm 8.136$	-4.096	$1.280 \pm 0.724$	-0.512
bn090610723	9+10+11	$144.896 \pm 3.367$	-2.560	$100.096 \pm 11.082$	30.208
bn090610883	2+5	$7.424 \pm 1.639$	-2.816	$3.584 \pm 0.724$	-1.024
bn090612619	1+5	$42.433 \pm 2.888$	-36.096	$23.680 \pm 2.052$	-21.760
bn090616157	0+1+2+5	$1.152 \pm 1.168$	-0.192	$0.512 \pm 0.231$	0.000
bn090617208	0+1+3+5	$0.192 \pm 0.143$	-0.064	$0.064 \pm 0.091$	0.000
bn090618353	4	$112.386 \pm 1.086$	7.936	$23.808 \pm 0.572$	62.465
bn090620400	6+7+8+11	$13.568 \pm 0.724$	0.512	$3.840 \pm 0.362$	3.072
bn090620901	7+9+10+11	$0.960 \pm 0.272$	-0.576	$0.448 \pm 0.231$	-0.384
bn090621185	6+7+9	$106.754 \pm 14.373$	-2.560	$31.744 \pm 2.429$	8.448
bn090621417	6+7+9+10+11	$27.008 \pm 6.136$	-3.840	$17.344 \pm 2.862$	1.984
bn090621447	3+4+7+8	$26.112 \pm 5.655$	-0.256	$16.896 \pm 0.923$	1.536
bn090621922	2+5	$0.384 \pm 1.032$	-0.128	$0.128 \pm 0.091$	-0.064
bn090623107	7+8+9+11	$47.105 \pm 2.573$	0.320	$21.248 \pm 1.379$	3.904
bn090623913	0+1+6+9	$7.168 \pm 3.114$	-0.256	$3.328 \pm 0.724$	1.280
bn090625234	6+7+9	$14.336 \pm 0.923$	-3.584	$7.232 \pm 0.572$	-0.768
bn090625560	4+8	$11.776 \pm 2.673$	-1.536	$4.092 \pm 0.721$	0.004
bn090626189	0+1	$48.897 \pm 2.828$	1.536	$31.233 \pm 0.362$	4.096
bn090626707 <sup>e</sup>	0+1	$48.897 \pm 2.828$	1.536	$31.233 \pm 0.362$	4.096
bn090629543	3+6+7+8	$20.480 \pm 4.762$	-9.472	$9.728 \pm 1.493$	-1.792
bn090630311	1+2+9+10	$2.880 \pm 0.320$	-0.640	$0.960 \pm 0.181$	0.000
bn090701225	0+1+3	$4.160 \pm 0.692$	-3.520	$1.344 \pm 1.159$	-1.536
bn090703329	0+1+9	$8.960 \pm 1.864$	-2.304	$3.072 \pm 0.923$	-0.512
bn090704242	1+2	$69.889 \pm 5.724$	0.512	$32.257 \pm 1.493$	15.104
bn090704783	0+1+6+9	$19.456 \pm 2.064$	-1.792	$7.936 \pm 1.379$	1.280
bn090706283	6+9	$119.810 \pm 5.030$	-35.841	$59.137 \pm 4.199$	-12.800
bn090708152	0+1+2+3+5	$21.248 \pm 3.167$	-3.840	$7.680 \pm 1.619$	-1.280
bn090709630	0+1+2+3+5	$22.272 \pm 9.230$	0.512	$4.096 \pm 0.810$	1.792
bn090711850 <sup>f</sup>	6+7+9	$51.969 \pm 2.560$	-0.768	$23.552 \pm 2.290$	9.216
bn090712160	0+1+3	$87.041 \pm 7.799$	-65.537	$31.744 \pm 7.799$	-22.528
bn090713020	7+9+11	$82.817 \pm 2.318$	1.344	$27.392 \pm 0.429$	9.536
bn090717034	0+1+2+9+10	$65.537 \pm 1.557$	2.304	$43.009 \pm 0.572$	6.144
bn090717111	3+6+7+8	$0.384 \pm 0.181$	-0.192	$0.192 \pm 0.143$	-0.128

Table 6—Continued

Trigger ID	Detectors Used	$T_{90}$ (s)	$T_{90}$ start (s)	$T_{50}$ (s)	$T_{50}$ start (s)
bn090718720	3+6+7	76.481 ± 3.416	-0.768	31.681 ± 2.085	5.760
bn090718762	9+10+11	23.744 ± 0.802	3.392	8.448 ± 0.231	14.016
bn090719063	7+8	11.392 ± 0.466	0.896	3.904 ± 0.143	3.136
bn090720276	2+5	3.712 ± 0.724	-1.088	1.597 ± 0.407	0.003
bn090720710	0+1+3+5	10.752 ± 1.056	-0.256	6.144 ± 0.572	0.000
bn090725838	8+11	13.760 ± 1.229	-3.328	8.448 ± 0.859	-0.768
bn090726218 <sup>e</sup>	0+1+2	7.680 ± 0.724	-0.256	3.840 ± 0.572	1.536
bn090730608	1+2+9+10	9.088 ± 1.680	-1.664	3.648 ± 0.320	0.320
bn090802235	2+5	0.128 ± 0.091	-0.064	0.064 ± 0.091	0.000
bn090802666	8+11	27.520 ± 6.192	-0.768	11.968 ± 0.659	1.792
bn090804940	3+4+5	5.568 ± 0.362	0.640	2.560 ± 0.143	1.664
bn090805622	10+11	46.592 ± 2.318	-0.768	20.480 ± 1.448	3.328
bn090807832	6+7+8+9+11	17.920 ± 2.757	-1.280	8.192 ± 2.573	-0.256
bn090809978	3+4+5	11.008 ± 0.320	1.088	3.776 ± 0.091	2.752
bn090810659	2+5	123.458 ± 1.747	1.152	75.201 ± 2.073	38.337
bn090810781	3+4+5	62.977 ± 11.865	0.192	19.712 ± 1.895	4.992
bn090811696	0+1+9	14.848 ± 1.145	-0.256	12.800 ± 0.810	0.000
bn090813174	6+7+9	7.552 ± 0.362	0.384	5.888 ± 0.286	0.640
bn090814368	6+7+9+10+11	0.192 ± 0.143	-0.064	0.128 ± 0.091	0.000
bn090814950	9+10+11	108.610 ± 8.816	-0.256	52.673 ± 2.790	26.048
bn090815300	7+8	48.385 ± 1.086	-1.536	20.224 ± 1.280	2.560
bn090815438	7+8+11	56.321 ± 18.461	-36.865	15.360 ± 3.692	1.024
bn090815946	0+1+2+9	212.992 ± 1.950	-2.304	186.624 ± 2.111	7.936
bn090817036	3+4	52.417 ± 10.657	-13.440	13.312 ± 2.111	1.088
bn090819607	3+6+7+8	0.192 ± 0.202	-0.128	0.064 ± 0.091	-0.064
bn090820027	2+5	12.416 ± 0.181	31.169	4.480 ± 0.091	33.153
bn090820509	6+7+9	15.296 ± 4.610	-0.128	10.301 ± 0.602	0.003
bn090823133	6+7+8+11	63.361 ± 4.545	-53.249	42.177 ± 1.619	-38.913
bn090824918	2	59.905 ± 10.014	-4.608	34.817 ± 1.843	0.512
bn090826068	0+1+3+5	8.704 ± 2.862	-1.024	7.424 ± 0.923	-0.256
bn090828099	4+5	68.417 ± 3.167	-1.024	10.752 ± 0.320	45.825
bn090829672	0+6+7+9+10+11	67.585 ± 2.896	10.240	12.288 ± 1.448	39.937
bn090829702	0+6+7+9+10+11	101.633 ± 2.290	1.792	31.232 ± 2.573	6.400
bn090831317	4+5	39.424 ± 0.572	0.000	22.272 ± 0.810	7.680
bn090902401	7+8	3.200 ± 1.797	-2.304	0.896 ± 0.286	-0.256
bn090902462	0+1+9	19.328 ± 0.286	2.816	9.024 ± 0.181	8.896
bn090904058	2+9+10	56.065 ± 1.846	-3.072	34.305 ± 1.002	7.936



Table 6—Continued

Trigger ID	Detectors Used	$T_{90}$ (s)	$T_{90}$ start (s)	$T_{50}$ (s)	$T_{50}$ start (s)
bn090904581	1+2+9+10	$38.401 \pm 3.093$	-2.560	$20.992 \pm 1.379$	3.584
bn090907017	4	$39.489 \pm 4.443$	-12.800	$13.248 \pm 2.233$	1.088
bn090907808	3+6+7+8+9	$0.832 \pm 0.320$	-0.256	$0.448 \pm 0.143$	0.000
bn090908314	9+10+11	$67.329 \pm 4.700$	-59.137	$50.433 \pm 1.864$	-49.665
bn090908341	3+4+5	$36.864 \pm 0.923$	-0.256	$15.872 \pm 1.305$	4.608
bn090909487	8	$14.336 \pm 2.896$	-4.096	$7.168 \pm 2.896$	-1.024
bn090909854	0+1+6+9+10	$1.152 \pm 2.244$	-0.768	$0.384 \pm 0.202$	-0.064
bn090910812	4+8	$53.441 \pm 13.334$	0.832	$26.881 \pm 0.923$	7.232
bn090912660	3+4+5	$147.651 \pm 9.718$	-0.768	$88.257 \pm 2.534$	12.224
bn090915650	0+1+2	$76.609 \pm 1.559$	-0.768	$25.792 \pm 1.785$	2.304
bn090917661	0+3+4+6	$26.624 \pm 1.134$	-0.192	$15.360 \pm 0.689$	1.088
bn090920035	2+10	$26.624 \pm 1.056$	-7.680	$12.800 \pm 0.810$	-3.840
bn090922539	0+1+6+7+9	$87.041 \pm 0.810$	0.512	$4.864 \pm 0.572$	1.792
bn090922605	8+11	$52.736 \pm 1.810$	0.000	$20.224 \pm 1.056$	5.120
bn090924625 <sup>b</sup>	0+9+10	$0.352 \pm 0.101$	-0.064	$0.096 \pm 0.072$	-0.032
bn090925389	8+11	$25.472 \pm 3.525$	0.064	$11.456 \pm 1.275$	3.776
bn090926181	3+4+6+7+8	$13.760 \pm 0.286$	2.176	$6.528 \pm 0.143$	4.224
bn090926914	7+8+11	$55.553 \pm 7.638$	1.088	$17.984 \pm 1.262$	13.120
bn090927422	10	$0.512 \pm 0.231$	-0.192	$0.320 \pm 0.202$	-0.128
bn090928646	4+8	$15.616 \pm 2.611$	-0.256	$2.816 \pm 0.923$	1.024
bn090929190	8	$6.174 \pm 1.298$	0.003	$2.816 \pm 0.572$	0.800
bn091002685	6+7+9	$2.752 \pm 3.089$	-1.344	$0.640 \pm 0.286$	-0.320
bn091003191	7+9	$20.224 \pm 0.362$	0.832	$13.312 \pm 0.724$	5.696
bn091005679	6+7+8+11	$6.976 \pm 0.572$	-4.672	$3.136 \pm 0.730$	-1.984
bn091006360	1+2+5	$0.192 \pm 0.091$	-0.192	$0.064 \pm 0.181$	-0.128
bn091010113	3+4+6	$5.952 \pm 0.143$	0.128	$1.088 \pm 0.580$	1.984
bn091012783	10+11	$0.704 \pm 2.499$	0.000	$0.320 \pm 0.091$	0.256
bn091015129	5	$3.840 \pm 0.590$	-2.304	$1.472 \pm 0.320$	-1.536
bn091017861	3+4+5	$2.624 \pm 0.462$	-0.832	$0.960 \pm 0.231$	-0.384
bn091017985	0+1+3+7+9	$44.800 \pm 3.367$	-1.792	$16.640 \pm 2.360$	2.048
bn091018957	11	$0.192 \pm 0.286$	-0.064	$0.064 \pm 0.091$	-0.064
bn091019750 <sup>g</sup>	0+1+2	$0.208 \pm 0.172$	-0.112	$0.016 \pm 0.036$	-0.032
bn091020900	2+5	$24.256 \pm 7.973$	-3.584	$6.912 \pm 0.668$	1.664
bn091020977	0+1+3+4+5	$37.505 \pm 0.905$	0.992	$21.696 \pm 0.373$	2.848
bn091023021	2+4+5	$6.528 \pm 1.857$	-0.448	$1.792 \pm 0.345$	-0.192
bn091024372 <sup>h</sup>	7+8+11	$93.954 \pm 5.221$	-3.072	$39.937 \pm 1.056$	4.352
bn091024380 <sup>h</sup>	6+7+9	$450.569 \pm 2.360$	2.048	$100.610 \pm 0.923$	222.724

Table 6—Continued

Trigger ID	Detectors Used	$T_{90}$ (s)	$T_{90}$ start (s)	$T_{50}$ (s)	$T_{50}$ start (s)
bn091026485	1+2	$3.328 \pm 0.779$	-0.896	$1.536 \pm 0.286$	-0.384
bn091026550	4	$8.960 \pm 1.379$	-5.120	$3.840 \pm 0.810$	-4.096
bn091030613	3+4+6+7	$19.200 \pm 0.871$	0.576	$9.472 \pm 0.345$	5.504
bn091030828	8+10+11	$98.050 \pm 4.128$	0.832	$24.832 \pm 1.493$	7.232
bn091031500	1+6+7+9	$33.921 \pm 0.462$	1.408	$8.192 \pm 0.231$	7.040
bn091101143	10+11	$10.688 \pm 0.842$	0.192	$5.056 \pm 0.320$	1.728
bn091102607	2+10	$6.656 \pm 3.435$	-0.768	$2.813 \pm 1.618$	0.003
bn091103912	3+4+5	$13.568 \pm 6.023$	-2.048	$4.288 \pm 0.373$	0.832
bn091106762	10	$14.592 \pm 16.147$	-1.280	$11.008 \pm 0.923$	1.280
bn091107635	0+3+4+6+7	$11.008 \pm 10.546$	-2.816	$2.048 \pm 0.572$	-0.512
bn091109895	0+1+3	$30.976 \pm 4.580$	-5.376	$20.224 \pm 2.064$	0.768
bn091112737	3+4+5	$24.576 \pm 0.923$	-0.768	$7.680 \pm 0.362$	3.840
bn091112928	1+3+4+5	$21.184 \pm 0.977$	-0.768	$9.664 \pm 0.659$	3.648
bn091115177	0+1+3+5	$37.376 \pm 2.360$	-1.536	$18.432 \pm 1.639$	8.192
bn091117080	2+5	$113.664 \pm 2.360$	-4.352	$96.000 \pm 1.145$	4.352
bn091120191	0+1+3+5	$50.177 \pm 2.111$	1.024	$20.992 \pm 2.290$	9.216
bn091122163	7+9+11	$1.984 \pm 1.925$	-1.472	$0.448 \pm 1.368$	-0.256
bn091123081	8+11	$15.552 \pm 1.866$	-9.984	$5.376 \pm 0.604$	-1.344
bn091123298 <sup>c</sup>	2+5	$604.491 \pm 11.676$	4.096	$365.574 \pm 8.749$	63.489
bn091126333	7+8+11	$0.192 \pm 0.091$	-0.064	$0.128 \pm 0.091$	-0.064
bn091126389 <sup>i</sup>	7+8+11	$0.192 \pm 0.091$	-0.064	$0.128 \pm 0.091$	-0.064
bn091127976	6+7+9	$8.701 \pm 0.571$	0.003	$5.120 \pm 0.362$	0.512
bn091128285	9+10	$87.810 \pm 13.662$	-23.297	$22.528 \pm 3.238$	5.120
bn091201089	6+7+8+9+11	$12.992 \pm 2.010$	-7.744	$5.952 \pm 0.951$	-4.288
bn091202072	0+1+3+5	$27.648 \pm 3.566$	-5.120	$10.240 \pm 0.923$	-0.768
bn091202219	9+10+11	$111.106 \pm 3.692$	-38.913	$40.449 \pm 2.560$	6.144
bn091207333	0+1+9+10	$27.073 \pm 0.916$	0.256	$8.000 \pm 0.607$	2.432
bn091208410	0+9+10	$12.480 \pm 5.018$	-0.128	$7.168 \pm 0.630$	1.856
bn091209001	4	$42.945 \pm 8.035$	-5.888	$11.392 \pm 0.771$	2.304
bn091215234	3+4+5	$4.352 \pm 0.362$	-2.048	$2.304 \pm 0.362$	-1.536
bn091219462	0+1+9	$8.128 \pm 1.866$	-0.192	$2.048 \pm 0.643$	0.192
bn091220442	0+1+9+10	$18.368 \pm 0.590$	0.384	$5.696 \pm 0.345$	2.048
bn091221870 <sup>j</sup>	6+7+9+10+11	$23.040 \pm 5.177$	6.144	$9.216 \pm 1.056$	14.592
bn091223191	3+6+7+8	$0.576 \pm 0.181$	-0.256	$0.192 \pm 0.143$	-0.192
bn091223511	1+2+9+10	$49.725 \pm 1.379$	0.004	$19.840 \pm 0.462$	7.360
bn091224373	1+2	$0.768 \pm 0.231$	-0.192	$0.384 \pm 0.143$	-0.128
bn091227294	1+2+5	$21.888 \pm 0.889$	-1.280	$7.232 \pm 0.792$	2.048

Table 6—Continued

Trigger ID	Detectors Used	$T_{90}$ (s)	$T_{90}$ start (s)	$T_{50}$ (s)	$T_{50}$ start (s)
bn091230260	6+7+8+9+11	62.976 ± 3.874	-3.840	36.096 ± 1.493	0.000
bn091230712	8+11	35.137 ± 3.974	-0.512	7.424 ± 0.945	1.920
bn091231206	0+3+4+6+7	42.561 ± 3.664	2.624	17.984 ± 1.002	7.232
bn091231540	3+4+5	15.616 ± 2.757	-7.680	4.352 ± 0.724	-0.768
bn100101028	3	2.816 ± 0.320	-0.256	1.344 ± 0.091	-0.128
bn100101988	0+6+9+10	1.984 ± 2.049	-1.024	0.832 ± 0.143	-0.512
bn100107074 <sup>g</sup>	0	0.576 ± 0.465	-0.048	0.032 ± 0.179	-0.048
bn100111176	3+6+7	19.520 ± 5.367	-10.752	6.784 ± 0.810	-4.096
bn100112418	0+1+3+4+5	23.040 ± 0.572	-4.352	9.472 ± 0.923	-0.768
bn100116897	0+1+3	102.530 ± 1.485	0.576	5.504 ± 0.181	89.602
bn100117879	3+4+8	0.256 ± 0.834	-0.064	0.064 ± 0.181	0.000
bn100118100	1+2+5	9.216 ± 6.720	-2.304	2.560 ± 0.923	-0.768
bn100122616	6+7+9	22.528 ± 2.769	5.120	2.304 ± 0.572	20.736
bn100126460	1+2+5	10.624 ± 12.673	-1.280	9.088 ± 1.243	-0.512
bn100130729	0+3+4+6+7	99.074 ± 3.328	-6.400	13.568 ± 0.724	63.745
bn100130777	7+8+11	86.018 ± 6.988	-10.240	34.049 ± 1.493	5.632
bn100131730	6+7	3.520 ± 0.453	0.192	1.408 ± 0.202	0.576
bn100201588	0+6+7+9+10+11	122.114 ± 1.280	0.256	74.241 ± 1.864	17.152
bn100204024	6+7+9+10+11	136.195 ± 27.553	-95.234	21.504 ± 2.896	-7.168
bn100204566	2+5	32.513 ± 2.862	-30.209	20.480 ± 0.572	-22.529
bn100204858	10+11	1.920 ± 2.375	-0.640	0.256 ± 0.202	-0.192
bn100205490	10+11	14.848 ± 2.290	-1.024	3.584 ± 1.145	0.000
bn100206563 <sup>g</sup>	0+1+3	0.128 ± 0.091	-0.064	0.064 ± 0.143	0.000
bn100207665	4+5	15.360 ± 3.874	-2.816	8.192 ± 0.724	-0.768
bn100207721	0+1+3+5	17.728 ± 6.492	-9.216	8.768 ± 1.073	-3.072
bn100208386	0+1+9	0.192 ± 0.264	-0.064	0.128 ± 0.091	-0.064
bn100210101	0+1+2+9+10	29.184 ± 5.655	-10.240	5.632 ± 1.145	-1.024
bn100211440	10+11	21.376 ± 0.923	0.640	8.960 ± 0.373	7.360
bn100212550	6+7+9	3.773 ± 0.270	0.003	2.368 ± 0.231	0.768
bn100212588	0+3	2.496 ± 0.202	-0.448	0.768 ± 0.143	-0.256
bn100216422	6+9+11	0.192 ± 0.143	-0.064	0.128 ± 0.091	-0.064
bn100218194	0+1+9	29.185 ± 5.813	-3.584	13.696 ± 2.033	1.664
bn100219026	2+5	59.712 ± 4.955	-12.416	26.880 ± 1.336	1.152
bn100221368	3+4+5	23.552 ± 1.032	-3.328	8.960 ± 0.551	0.320
bn100223110	7+8+11	0.256 ± 0.091	-0.064	0.064 ± 0.091	0.064
bn100224112	3+4	67.329 ± 6.988	-3.584	7.936 ± 1.459	10.816
bn100225115	0+1+3+4+5	12.992 ± 1.925	-0.256	5.056 ± 0.320	3.136

Table 6—Continued

Trigger ID	Detectors Used	$T_{90}$ (s)	$T_{90}$ start (s)	$T_{50}$ (s)	$T_{50}$ start (s)
bn100225249	2+5	32.000 ± 20.419	-0.512	16.896 ± 7.701	2.560
bn100225580	0+1+3+4+5	6.400 ± 1.086	-0.512	2.304 ± 0.724	1.536
bn100225703	0+6+9+10+11	4.480 ± 1.431	-1.152	1.920 ± 0.572	0.000
bn100228544	9+10+11	67.072 ± 4.720	-3.072	33.280 ± 1.846	3.072
bn100228873	0+6+9+10+11	8.704 ± 2.318	-2.048	3.072 ± 0.810	-1.280
bn100301068	6+9	0.960 ± 1.002	-0.896	0.064 ± 0.091	-0.064
bn100301223	0+9+10	26.625 ± 1.431	-0.256	6.784 ± 0.932	2.944
bn100304004	8+11	181.507 ± 21.682	-2.560	97.538 ± 16.766	10.752
bn100304534	2	19.008 ± 2.782	-9.472	5.888 ± 1.132	-1.024
bn100306199	6+7+8+11	7.168 ± 2.064	-4.352	3.328 ± 0.572	-3.072
bn100307928	9+10+11	16.128 ± 2.187	-3.072	6.400 ± 1.379	-0.768
bn100311518	3+4+5	9.024 ± 1.042	-0.256	3.968 ± 0.572	2.240
bn100313288	0+9+10	12.864 ± 2.099	-2.816	3.904 ± 0.286	0.832
bn100313509	6+7+9+11	34.048 ± 2.996	-3.072	17.408 ± 1.280	2.560
bn100315361	0+1+3	35.584 ± 2.290	-4.608	16.896 ± 1.086	-0.256
bn100318611	9+10+11	18.432 ± 0.923	-1.792	7.168 ± 0.724	0.000
bn100322045	1+2+5	37.121 ± 0.231	1.152	26.368 ± 0.181	7.424
bn100323542	8+11	60.673 ± 3.620	-5.632	53.505 ± 1.950	-0.768
bn100324172	1+2+5	17.920 ± 2.064	0.576	3.840 ± 0.362	2.368
bn100325246	0+1+3	8.192 ± 1.086	-1.536	4.608 ± 0.572	-0.512
bn100325275	0+1+3	7.104 ± 1.619	-0.384	4.096 ± 0.724	0.576
bn100326294	9+10	5.632 ± 2.064	-5.376	3.584 ± 2.111	-3.584
bn100326402	3+4+5	171.011 ± 29.126	-72.705	36.865 ± 5.793	-5.120
bn100328141	6+7+9+11	0.384 ± 0.143	-0.064	0.192 ± 0.091	0.064
bn100330309	7+9+10+11	10.048 ± 0.318	0.064	4.096 ± 0.272	1.280
bn100330856	0+1+3+9	5.120 ± 0.453	-1.152	1.024 ± 0.466	-0.640
bn100401297	0+1+2+3+5	92.416 ± 4.291	-6.656	79.616 ± 0.724	-0.256
bn100406758	1+2+5	5.888 ± 2.919	-1.280	2.557 ± 1.377	0.003
bn100410356	4+8	9.728 ± 2.202	-5.888	3.328 ± 1.086	-3.328
bn100410740	1+2+5	22.016 ± 4.700	-1.024	14.080 ± 4.222	1.280
bn100411516	9+10+11	0.512 ± 0.231	-0.064	0.448 ± 0.143	-0.064
bn100413732	7+8+11	179.651 ± 2.817	-0.512	96.258 ± 2.445	34.688
bn100414097	6+7+9+11	26.497 ± 2.073	1.856	13.248 ± 0.272	8.192
bn100417166	6+7+9	0.192 ± 0.091	-0.064	0.128 ± 0.091	-0.064
bn100417789	2+10	52.545 ± 1.856	-2.560	15.552 ± 0.604	0.192
bn100420008	3+4+5	20.288 ± 0.405	0.192	8.704 ± 0.231	1.920
bn100421917	1+2	47.489 ± 10.849	-22.272	16.960 ± 1.494	1.216

Table 6—Continued

Trigger ID	Detectors Used	$T_{90}$ (s)	$T_{90}$ start (s)	$T_{50}$ (s)	$T_{50}$ start (s)
bn100423244	3+4+6+7	16.512 ± 2.226	1.600	6.976 ± 0.362	5.312
bn100424729	7+8+11	175.107 ± 1.493	-25.345	83.201 ± 1.717	15.872
bn100424876	0+1+5	169.987 ± 3.557	-2.048	20.480 ± 2.290	131.074
bn100427356	0+3+6+7	12.544 ± 7.389	-4.864	4.544 ± 0.630	0.640
bn100429999	6+7+9	25.024 ± 6.582	-12.800	6.656 ± 0.547	-0.512
bn100502356	3+4+7+8	95.810 ± 2.382	-2.816	53.633 ± 1.118	12.224
bn100503554	3+4+6+7+8	129.602 ± 10.230	6.592	35.009 ± 13.785	33.409
bn100504806	11	16.512 ± 1.810	1.216	8.320 ± 1.834	4.672
bn100506653	3+4+5	21.376 ± 1.891	-7.936	6.976 ± 0.800	0.192
bn100507577	9+10+11	44.033 ± 5.221	-1.024	14.336 ± 1.448	5.120
bn100510810	4	31.169 ± 4.017	-3.328	10.368 ± 0.975	0.640
bn100511035	3+6+7	42.433 ± 1.478	0.832	9.408 ± 0.091	17.856
bn100513879	4+6+7+8	11.136 ± 1.145	-0.768	3.456 ± 0.286	2.176
bn100515467	6+7+8+11	10.624 ± 1.431	-0.640	1.920 ± 0.231	0.704
bn100516369	6+7+8+11	2.112 ± 1.134	-1.920	1.024 ± 0.771	-1.024
bn100516396	6+7+8+11	0.640 ± 0.487	-0.576	0.128 ± 0.143	-0.192
bn100517072	0+1+2+9+10	55.808 ± 1.810	0.000	36.352 ± 0.572	1.280
bn100517132	3+6+7	19.840 ± 3.620	-0.512	9.856 ± 1.708	0.640
bn100517154	7+8+11	30.464 ± 0.810	-0.256	24.576 ± 0.572	0.256
bn100517243	1+2+3+5	29.632 ± 4.482	-13.568	10.816 ± 0.889	-6.656
bn100517639	3+4+7	5.440 ± 0.604	-0.768	2.816 ± 0.231	0.960
bn100519204	3+6+7+8	62.913 ± 3.929	0.640	24.960 ± 0.680	8.768
bn100522157	1+2+3+5	35.326 ± 0.715	0.003	11.712 ± 1.541	0.768
bn100525744	9+10	1.472 ± 1.974	-0.384	0.576 ± 0.462	-0.128
bn100527795	9+10+11	184.579 ± 3.238	-92.674	51.905 ± 2.010	12.864
bn100528075	6+7+9	22.464 ± 0.749	-0.256	7.040 ± 0.091	5.056
bn100530737	9+10+11	3.328 ± 0.810	-1.024	2.048 ± 0.572	-0.512
bn100604287	0+1+2+9+10	13.440 ± 0.871	-2.304	3.968 ± 0.231	1.920
bn100605774	6+7+9	8.192 ± 2.862	-1.024	3.072 ± 0.810	-0.256
bn100608382	3+6+7	30.208 ± 1.619	-7.680	14.848 ± 1.619	-2.304
bn100609783	3+4+5	230.404 ± 8.689	6.144	64.513 ± 22.737	32.769
bn100612545	2+5	0.576 ± 0.181	0.000	0.320 ± 0.143	0.064
bn100612726	3+4+7+8	8.576 ± 3.210	0.704	2.624 ± 0.286	2.432
bn100614498	6+7+9+10+11	172.291 ± 12.447	-149.763	72.193 ± 5.346	-74.497
bn100615083	6+7+8	37.377 ± 0.979	0.320	26.368 ± 0.689	2.944
bn100616773	10+11	0.192 ± 0.143	-0.192	0.128 ± 0.091	-0.192
bn100619015	2+5	96.002 ± 1.319	0.384	80.642 ± 0.231	7.744

Table 6—Continued

Trigger ID	Detectors Used	$T_{90}$ (s)	$T_{90}$ start (s)	$T_{50}$ (s)	$T_{50}$ start (s)
bn100620119	6+7	$51.841 \pm 8.518$	0.192	$11.520 \pm 0.861$	3.008
bn100621452	1+3+4+5	$123.906 \pm 5.515$	-6.656	$89.601 \pm 3.238$	1.536
bn100621529	0+1+2+9+10	$1.024 \pm 0.202$	-0.448	$0.384 \pm 0.143$	-0.192
bn100625773	4	$0.192 \pm 0.143$	-0.064	$0.064 \pm 0.143$	0.000
bn100625891	3+6+7+8	$29.184 \pm 1.086$	-7.424	$18.432 \pm 0.923$	0.512
bn100629801	10+11	$0.832 \pm 0.373$	-0.128	$0.320 \pm 0.143$	0.000
bn100701490	4+5	$22.016 \pm 5.568$	0.096	$4.992 \pm 0.264$	3.552
bn100704149	0+1+2	$214.404 \pm 5.917$	-38.145	$11.648 \pm 1.231$	1.344
bn100706693	8+9+10+11	$0.128 \pm 0.143$	-0.128	$0.064 \pm 0.091$	-0.064
bn100707032	7+8	$81.793 \pm 1.218$	1.088	$20.672 \pm 0.345$	3.712
bn100709602	4+5	$100.098 \pm 1.527$	-2.560	$61.505 \pm 0.724$	3.584
bn100713980	1+3+4+5	$7.616 \pm 0.529$	-0.384	$1.472 \pm 0.407$	-0.128
bn100714672	2	$35.584 \pm 5.126$	-0.512	$15.360 \pm 1.379$	4.352
bn100714686	2+10	$5.632 \pm 2.064$	-3.328	$1.280 \pm 0.572$	-0.256
bn100715477	6+7+8+9	$14.848 \pm 3.665$	-1.024	$5.632 \pm 2.172$	1.536
bn100717372	8+11	$5.952 \pm 1.507$	-0.576	$0.832 \pm 0.286$	3.264
bn100717446	6+7+8+11	$2.432 \pm 1.356$	-0.128	$0.768 \pm 0.231$	0.000
bn100718160	0+1+2+5	$32.640 \pm 1.864$	-21.616	$8.576 \pm 1.379$	-4.208
bn100718796	9+10+11	$38.656 \pm 8.002$	-2.816	$12.544 \pm 1.280$	1.024
bn100719311	0+1+2	$1.600 \pm 0.854$	-1.536	$0.512 \pm 0.286$	-0.640
bn100719825	9+10	$3.072 \pm 3.114$	-2.304	$1.280 \pm 0.724$	-1.024
bn100719989	3+4+5	$21.824 \pm 1.305$	1.536	$3.328 \pm 0.580$	2.624
bn100722096	0+1+3	$7.165 \pm 1.055$	0.003	$2.560 \pm 0.362$	0.768
bn100722291	4+8	$1.280 \pm 0.905$	-1.216	$0.384 \pm 0.916$	-0.384
bn100724029	0+1+2+3+5	$114.690 \pm 3.238$	8.192	$47.105 \pm 2.290$	26.624
bn100725475	6+7+9	$146.434 \pm 4.971$	-2.048	$124.930 \pm 3.692$	6.144
bn100727238	3+4+5	$23.808 \pm 2.769$	-6.656	$10.240 \pm 1.950$	-3.328
bn100728095	0+1+2+5	$165.378 \pm 2.896$	13.312	$61.953 \pm 1.448$	61.441
bn100728439	6+7+8+11	$10.240 \pm 1.846$	-2.048	$3.584 \pm 0.572$	0.256
bn100730463	9+10+11	$63.873 \pm 8.776$	-1.536	$33.409 \pm 9.026$	16.960
bn100802240	3+4+6+7+8	$28.672 \pm 3.167$	-1.792	$11.008 \pm 1.619$	0.512
bn100804104	3+4+6+7+8	$6.592 \pm 0.771$	0.128	$3.456 \pm 0.286$	1.280
bn100805300 <sup>b</sup>	7+8+10	$0.064 \pm 0.072$	-0.096	$0.064 \pm 0.045$	-0.096
bn100805845	0+1+5	$58.430 \pm 6.426$	0.003	$30.721 \pm 2.111$	2.368
bn100810049	3+4+5	$2.560 \pm 1.741$	-1.856	$1.152 \pm 0.659$	-1.280
bn100811108	6+7+8+9+10+11	$0.384 \pm 0.091$	-0.064	$0.256 \pm 0.091$	0.000
bn100811781	0+1+3	$78.080 \pm 3.840$	-52.992	$48.384 \pm 1.619$	-40.448

Table 6—Continued

Trigger ID	Detectors Used	$T_{90}$ (s)	$T_{90}$ start (s)	$T_{50}$ (s)	$T_{50}$ start (s)
bn100814160	7+8+11	150.530 ± 1.619	0.576	72.193 ± 1.619	5.696
bn100814351	1+2+5	7.424 ± 0.923	-0.768	3.072 ± 0.724	0.768
bn100816009	4+8	62.401 ± 5.278	-21.760	22.720 ± 0.923	-2.560
bn100816026	7+8+11	2.045 ± 0.229	0.003	0.896 ± 0.143	0.512
bn100819498	9+10+11	12.544 ± 1.810	-4.864	5.376 ± 0.680	-1.280
bn100820373	0+1+2+9+10	8.960 ± 2.187	-0.768	1.792 ± 0.572	0.000
bn100825287	2+10	3.328 ± 1.846	-1.280	1.536 ± 0.362	-0.512
bn100826957	6+7+8+11	84.993 ± 0.724	8.704	47.105 ± 0.572	19.456
bn100827455	3+6+7+8	0.576 ± 0.389	-0.128	0.128 ± 0.389	0.320
bn100829374	1+2+5	94.977 ± 2.767	0.256	11.520 ± 1.086	56.065
bn100829876	2+10	8.704 ± 0.389	0.096	1.344 ± 0.143	0.672
bn100831651	4+5	40.193 ± 11.986	-23.296	18.944 ± 2.636	-11.264
bn100902990	6+7+8	22.272 ± 3.338	-4.096	8.704 ± 1.305	-0.512
bn100905907	3+4	11.520 ± 1.145	-4.608	3.584 ± 0.572	-0.256
bn100906576	7+8+11	110.594 ± 2.828	0.768	18.944 ± 1.305	5.120
bn100907751	1+2+5	5.376 ± 2.187	-1.536	1.536 ± 0.923	-0.512
bn100910818	0+1+2+3+5	13.824 ± 0.724	1.344	6.656 ± 0.572	5.184
bn100911816	0+1+3+4+5	5.632 ± 1.999	-0.768	2.304 ± 0.724	-0.256
bn100915243	2+5	7.936 ± 3.367	-7.424	2.304 ± 1.619	-2.816
bn100916779	2+4+5	12.800 ± 2.111	-0.256	10.240 ± 0.810	-0.256
bn100918863	8+11	86.017 ± 8.689	18.432	49.153 ± 8.689	36.865
bn100919884	0+1+2+3+5	49.601 ± 2.975	-38.401	16.128 ± 2.073	-8.448
bn100922625	9+10+11	4.352 ± 0.923	-1.024	3.072 ± 0.724	-0.768
bn100923844	0+1	51.713 ± 5.838	-0.768	9.984 ± 0.923	21.248
bn100924165 <sup>e</sup>	6+7+9+10+11	9.024 ± 0.362	-0.640	3.776 ± 0.231	0.512
bn100926595	4+8	32.256 ± 0.572	-24.064	13.568 ± 0.572	-11.776
bn100926694	6+7+8+9+11	37.888 ± 2.611	-3.072	28.416 ± 3.415	-0.512
bn100929235	0+1+2+3+5	8.192 ± 2.360	-2.304	3.072 ± 0.923	-1.280
bn100929315	4+5	4.608 ± 1.305	-0.512	1.536 ± 0.724	-0.512
bn100929916	2+5	0.320 ± 0.143	-0.128	0.256 ± 0.143	-0.064
bn101002279	9+10+11	7.168 ± 2.290	-4.352	5.632 ± 1.086	-3.840
bn101003244	3+4+5	9.984 ± 1.448	-1.792	3.840 ± 0.572	0.000
bn101004426	1+2	161.027 ± 7.836	-141.058	93.698 ± 2.673	-94.466
bn101008697	6+7+8+11	8.960 ± 1.846	-2.560	3.072 ± 1.557	-1.024
bn101010190	9+10+11	65.025 ± 6.165	-11.008	49.665 ± 1.086	-1.280
bn101011707	6+8+10+11	36.352 ± 2.318	-1.024	22.528 ± 1.717	1.792
bn101013412	0+1+2+9	15.360 ± 0.572	0.576	7.680 ± 0.272	2.304

Table 6—Continued

Trigger ID	Detectors Used	$T_{90}$ (s)	$T_{90}$ start (s)	$T_{50}$ (s)	$T_{50}$ start (s)
bn101014175	6+7+8+11	449.415 ± 1.410	1.408	200.131 ± 1.002	13.632
bn101015558	6+7+8+11	500.552 ± 7.408	-2.048	197.059 ± 0.996	61.761
bn101016243	3+4+6+7+8	3.840 ± 0.362	-1.536	1.280 ± 0.362	-0.256
bn101017619	6+7+8+9	47.872 ± 1.950	-1.024	20.224 ± 2.360	2.560
bn101021009	11	120.770 ± 12.237	-51.457	40.065 ± 0.861	4.032
bn101021063	7+8+9+11	1.536 ± 2.360	-0.512	0.768 ± 0.362	-0.512
bn101023951	2+5	76.801 ± 8.256	9.216	9.216 ± 1.448	61.441
bn101024486	4+5	20.224 ± 2.828	-3.840	13.824 ± 4.128	-1.024
bn101025146	0+1+2+5	14.336 ± 1.846	-1.792	6.400 ± 0.923	-1.280
bn101026034	2+5	0.256 ± 0.091	-0.128	0.192 ± 0.143	-0.128
bn101027230	3+6+7	1.344 ± 1.802	-1.280	0.128 ± 0.091	-0.064
bn101030664	1+2+5	95.746 ± 4.375	-69.633	65.537 ± 0.923	-57.601
bn101031625	2+4+5	0.384 ± 0.462	-0.064	0.192 ± 0.143	-0.064
bn101101744	7+8+11	3.328 ± 2.862	-2.304	1.024 ± 0.572	-0.768
bn101101899	3+4+5	31.232 ± 1.619	-4.608	13.824 ± 1.145	0.512
bn101102840	6+7+9+11	43.520 ± 6.676	-1.792	19.200 ± 3.367	2.048
bn101104810	0+2+4+5	1.280 ± 0.572	-0.512	0.768 ± 0.572	0.000
bn101107011	0+3	375.814 ± 8.444	2.304	332.805 ± 3.692	10.496
bn101112924	2+5	9.472 ± 2.996	-5.888	1.792 ± 0.572	-0.256
bn101112984	6+7	82.944 ± 1.717	-9.472	55.808 ± 1.086	1.792
bn101113483	6+7+9+10+11	12.288 ± 0.572	-0.256	6.912 ± 0.572	1.536
bn101116481	2+3	0.576 ± 0.820	-0.128	0.384 ± 0.373	-0.128
bn101117496	7+8+11	50.177 ± 1.639	-2.048	24.064 ± 1.086	11.776
bn101119685	1+2+10	0.640 ± 0.607	-0.320	0.192 ± 0.231	-0.192
bn101123952	9+10	103.938 ± 0.724	41.473	30.465 ± 1.557	46.849
bn101126198	6+7+8+11	43.837 ± 1.747	0.004	9.216 ± 0.320	9.792
bn101127093	3+4+5	29.440 ± 4.471	-3.328	22.016 ± 1.145	-2.048
bn101127102	6+7+9	60.672 ± 7.322	-5.120	20.224 ± 0.724	3.584
bn101128322	6+7+9	8.192 ± 1.493	-2.816	2.816 ± 0.572	-1.280
bn101129652	2+6+9	0.384 ± 0.143	-0.064	0.192 ± 0.181	0.064
bn101129726	0+1+2+3	0.576 ± 0.143	-0.064	0.256 ± 0.091	0.000
bn101130074	4+5	4.864 ± 2.769	-2.304	2.304 ± 2.415	-1.536
bn101201418	1+2+9+10	112.639 ± 7.455	0.003	35.841 ± 2.896	15.360
bn101202154	10+11	18.432 ± 3.665	0.000	9.984 ± 1.846	2.816
bn101204343	0+3+4+5+6	0.128 ± 0.091	-0.064	0.128 ± 0.091	-0.064
bn101205309	1+2+5	7.936 ± 5.938	-3.840	3.072 ± 1.619	-2.816
bn101206036	0+1+2+9+10	34.813 ± 5.837	0.003	11.200 ± 1.652	4.544



Table 6—Continued

Trigger ID	Detectors Used	$T_{90}$ (s)	$T_{90}$ start (s)	$T_{50}$ (s)	$T_{50}$ start (s)
bn101207536	3+4+5	61.441 ± 3.727	5.632	34.817 ± 0.572	11.520
bn101208203	3+5	0.192 ± 1.478	-0.192	0.192 ± 0.143	-0.192
bn101208498	1+2+5	2.048 ± 0.951	-0.640	0.384 ± 0.181	0.256
bn101211485	7+8+11	13.568 ± 7.030	-2.816	4.352 ± 0.724	-1.024
bn101213451	2+5	45.057 ± 1.950	0.256	17.408 ± 1.280	6.144
bn101213849	0+1+3+5	6.656 ± 1.145	-1.792	2.048 ± 0.572	-0.256
bn101214748	2+10	2.240 ± 2.084	-1.408	0.128 ± 0.202	-0.064
bn101214993	3+4+6+7+8	11.520 ± 3.665	-0.768	5.373 ± 2.360	0.003
bn101216721	1+2+5	1.917 ± 0.551	0.003	0.512 ± 0.143	0.320
bn101219686	3+4+6+7+8	51.009 ± 1.775	-4.352	21.824 ± 2.199	2.624
bn101220576	0	72.449 ± 4.048	2.304	22.528 ± 0.923	16.128
bn101220864	3+4+6+7+8	31.745 ± 2.187	-1.024	17.408 ± 2.896	7.168
bn101223834	2+3+4	56.065 ± 5.497	-41.217	13.824 ± 1.280	-5.632
bn101224227	3+4+5	1.728 ± 1.680	-0.064	0.192 ± 0.286	0.000
bn101224578	0+1+2+3+5	44.737 ± 0.889	-0.128	32.257 ± 0.810	3.136
bn101224614	1+2+5	25.601 ± 3.416	-2.560	8.448 ± 1.280	2.048
bn101224998	3+4+5	18.688 ± 8.719	-9.728	7.424 ± 0.362	-1.280
bn101225377	7+8+11	81.217 ± 35.377	20.544	12.352 ± 0.453	81.794
bn101227195	4+8	95.488 ± 1.639	-0.768	86.784 ± 3.665	2.048
bn101227406	0+3+6+9	153.347 ± 2.573	0.768	39.681 ± 0.923	3.840
bn101227536	6+7+8+11	28.865 ± 3.088	-0.128	10.496 ± 0.362	0.832
bn101231067	2+9+10	23.614 ± 0.572	0.003	16.640 ± 0.724	3.904
bn110101202	1+3+4+5	3.584 ± 1.493	-2.304	1.024 ± 1.086	-0.768
bn110101506	6+7	235.523 ± 8.256	-103.425	158.722 ± 8.749	-64.513
bn110102788	0+1+9	253.956 ± 2.049	-119.426	73.921 ± 0.429	7.488
bn110105877	9+10+11	123.394 ± 6.476	-7.680	72.705 ± 3.238	8.192
bn110106893	10+11	35.521 ± 3.612	-16.896	11.648 ± 0.604	-1.024
bn110107886	0+1+2+3	183.555 ± 24.406	-61.185	81.665 ± 11.801	-32.257
bn110108977	1+2	51.456 ± 6.955	-1.024	25.856 ± 1.950	4.608
bn110112934	1+9+10	2.304 ± 2.538	-0.960	0.320 ± 0.326	-0.064
bn110117364	8+10	72.448 ± 9.051	-1.792	41.472 ± 4.404	4.864
bn110117626	6+7+9+10+11	43.264 ± 1.639	-2.048	24.576 ± 0.362	0.768
bn110118857	0+1+2+9	34.561 ± 2.360	-6.144	4.096 ± 0.810	0.256
bn110119931	3+4+5	205.828 ± 1.864	-0.768	44.033 ± 0.923	15.616
bn110120666	6+7+9	28.417 ± 9.793	0.256	9.792 ± 1.159	1.792
bn110123804	0+1+3+4+5	17.856 ± 0.810	0.704	8.064 ± 0.181	5.056
bn110124784	3+6+7	5.376 ± 2.202	-3.328	1.792 ± 0.923	-1.280

Table 6—Continued

Trigger ID	Detectors Used	$T_{90}$ (s)	$T_{90}$ start (s)	$T_{50}$ (s)	$T_{50}$ start (s)
bn110125894	0+1+3	4.800 ± 0.923	-0.768	1.856 ± 0.640	-0.256
bn110128073	6+7+9	12.160 ± 4.971	-5.824	4.608 ± 2.470	-2.560
bn110130230	6+7+8+11	47.360 ± 2.187	-0.256	32.000 ± 1.280	4.864
bn110131780	0+1+9	0.384 ± 1.478	-0.192	0.192 ± 0.264	-0.128
bn110201399	4	8.192 ± 0.870	-1.792	3.968 ± 1.421	-0.512
bn110204179	3+4	28.673 ± 6.720	-3.840	5.888 ± 1.280	1.536
bn110205027	4+8	6.400 ± 3.238	-2.816	2.304 ± 3.114	-1.024
bn110205588	5	158.720 ± 2.290	-7.168	138.240 ± 2.896	5.120
bn110206202	2+5	12.288 ± 1.639	-6.400	4.864 ± 0.810	-5.120
bn110207470	3+4+5	37.888 ± 2.290	-1.024	20.480 ± 1.448	11.264
bn110207959	4+8	7.680 ± 4.944	-0.768	3.328 ± 2.611	-0.512
bn110209165	2+5	5.632 ± 0.916	-3.776	2.432 ± 0.640	-3.328
bn110212550 <sup>s</sup>	6+7+8+11	0.064 ± 0.036	-0.048	0.032 ± 0.023	-0.032
bn110213220	3+4	34.305 ± 1.639	-0.768	6.400 ± 0.572	14.592
bn110213876	0+1+2+3+4+5	0.320 ± 0.810	-0.128	0.256 ± 0.231	-0.128
bn110217591	0+1+2+9+10	60.672 ± 11.611	-3.328	30.464 ± 4.720	1.536
bn110220761	6+7+9+10+11	33.024 ± 8.738	-1.792	17.408 ± 2.111	-0.256
bn110221244	0+6+9	13.056 ± 1.846	-1.536	4.096 ± 0.572	1.536
bn110226989	9+10+11	14.080 ± 0.923	-2.304	6.400 ± 0.724	0.256
bn110227009	6+7+8+10	1.728 ± 0.653	-0.192	0.768 ± 0.264	-0.128
bn110227229	0+1+6	18.432 ± 2.187	-1.024	8.192 ± 2.290	1.024
bn110227420	9+10+11	25.600 ± 6.869	-11.264	6.141 ± 1.446	0.003
bn110228011	2+5	44.481 ± 2.834	-30.721	7.680 ± 0.792	-1.280
bn110228792	3+4+6+7+8	17.152 ± 2.360	-3.840	9.472 ± 1.448	-0.512
bn110301214	7+8+11	5.693 ± 0.362	0.003	2.304 ± 0.362	1.600
bn110302043	6+7+8	38.336 ± 2.509	-11.200	11.392 ± 1.105	-1.216
bn110304071	2+5	19.520 ± 1.498	-0.256	14.848 ± 0.854	0.832
bn110307972	6+7+9+10+11	2.304 ± 3.444	-1.792	0.768 ± 0.572	-0.512
bn110311812	9+10+11	6.400 ± 1.639	-1.792	2.816 ± 0.362	-0.256
bn110316139	0+3+4+6+7	2.944 ± 2.199	-3.008	1.280 ± 1.802	-1.344
bn110318552	0+1+2+5	14.464 ± 1.094	-2.560	4.096 ± 0.231	3.840
bn110319628	9+10	15.336 ± 1.446	-2.300	7.924 ± 0.922	1.278
bn110319815	2+4+5	31.232 ± 5.049	-2.560	15.360 ± 3.367	0.256
bn110321346 <sup>k</sup>	0+1+2+5	30.720 ± 10.764	-4.096	11.264 ± 2.187	-1.280
bn110322558	0+1+3+6+7	36.097 ± 1.846	-4.096	23.296 ± 0.923	2.560
bn110328520	6+7+9	141.315 ± 29.767	1.024	33.793 ± 3.238	6.144
bn110331604	1+2+5	3.200 ± 0.951	-0.064	1.152 ± 0.634	0.320

Table 6—Continued

Trigger ID	Detectors Used	$T_{90}$ (s)	$T_{90}$ start (s)	$T_{50}$ (s)	$T_{50}$ start (s)
bn110401920	2+9+10	$2.368 \pm 1.270$	-0.640	$0.640 \pm 0.143$	-0.064
bn110402009	2+10	$35.649 \pm 1.461$	1.152	$21.952 \pm 1.223$	3.072
bn110407998	3+4+6+7+8	$9.024 \pm 0.091$	0.832	$3.840 \pm 0.143$	2.752
bn110409179	6+7+8+9+10+11	$0.128 \pm 0.143$	-0.128	$0.128 \pm 0.091$	-0.128
bn110410133	0+1+3+4+5	$61.952 \pm 1.379$	-11.008	$32.256 \pm 0.572$	1.024
bn110410772	0+1+3	$8.064 \pm 1.368$	-4.736	$3.840 \pm 0.453$	-3.136
bn110411629	7+8	$23.552 \pm 1.950$	-3.840	$12.800 \pm 0.810$	-0.768
bn110412315	6+7+9+11	$20.733 \pm 4.636$	0.003	$6.912 \pm 0.724$	2.560
bn110413938	3+4+5	$54.272 \pm 2.172$	-2.816	$20.736 \pm 2.996$	12.800
bn110415541	8+11	$166.146 \pm 0.810$	0.256	$154.370 \pm 6.197$	5.120
bn110420946	2+5	$0.128 \pm 0.516$	-0.064	$0.064 \pm 0.143$	-0.064
bn110421757	3+4+6+7+8	$40.449 \pm 0.923$	-2.560	$12.032 \pm 0.572$	5.120
bn110422029	6+7+8+11	$0.320 \pm 0.453$	-0.128	$0.256 \pm 0.181$	-0.128
bn110424758 <sup>b</sup>	0+1+2+5	$0.672 \pm 1.120$	-0.064	$0.128 \pm 0.385$	-0.064
bn110426629	8+9+10+11	$356.357 \pm 4.345$	14.592	$105.729 \pm 3.167$	157.442
bn110428338	3+4+7+8	$101.634 \pm 2.919$	-53.761	$59.137 \pm 1.280$	-30.977
bn110428388	0+3+4+6+7	$5.632 \pm 0.181$	2.688	$3.328 \pm 0.091$	3.904
bn110430375	6+7+9	$32.513 \pm 1.717$	1.024	$13.824 \pm 0.724$	8.704
bn110503145	1+3+4+5	$7.936 \pm 1.145$	-0.256	$3.584 \pm 0.572$	1.280
bn110505203	0+1+6+9	$4.096 \pm 0.545$	-0.384	$1.600 \pm 0.231$	0.320
bn110509142	9+10	$68.864 \pm 2.757$	-11.008	$20.992 \pm 4.104$	-1.536
bn110509475	0+1+2+3+5	$0.640 \pm 0.779$	-0.320	$0.384 \pm 0.143$	-0.064
bn110511616	6+7+9	$5.888 \pm 1.639$	-2.560	$2.560 \pm 1.086$	-1.792
bn110517453	0+1+3+9	$0.576 \pm 1.810$	-0.064	$0.128 \pm 0.405$	0.000
bn110517573	6+7+8+11	$23.040 \pm 0.362$	-0.256	$16.384 \pm 0.572$	2.048
bn110517902 <sup>l</sup>	6+7+8+11	$23.040 \pm 0.362$	-0.256	$16.384 \pm 0.572$	2.048
bn110520302	9+10	$12.288 \pm 11.337$	-10.496	$5.376 \pm 0.923$	-5.888
bn110521478	2	$6.141 \pm 0.809$	0.003	$1.792 \pm 0.572$	0.512
bn110522256	9+10	$28.160 \pm 2.673$	-8.704	$10.752 \pm 1.056$	0.256
bn110522296	0+1+3	$27.136 \pm 1.950$	-5.120	$6.656 \pm 0.724$	-0.512
bn110522633	3+4+6+7+8	$58.112 \pm 2.828$	-0.256	$20.736 \pm 0.572$	0.256
bn110523344	9+10+11	$44.544 \pm 2.611$	-1.280	$18.176 \pm 5.655$	0.512
bn110526715	3+4	$0.448 \pm 0.528$	-0.128	$0.320 \pm 0.143$	-0.064
bn110528624	3+4+5	$69.633 \pm 5.526$	-1.024	$37.120 \pm 1.846$	8.448
bn110529034	6+7+9+10	$0.512 \pm 0.091$	-0.128	$0.256 \pm 0.091$	-0.064
bn110529262	4+7+8	$45.825 \pm 1.810$	0.256	$18.432 \pm 0.572$	2.816
bn110529811	0+1+2+3+5	$34.817 \pm 4.636$	-2.560	$14.080 \pm 0.923$	1.536

Table 6—Continued

Trigger ID	Detectors Used	$T_{90}$ (s)	$T_{90}$ start (s)	$T_{50}$ (s)	$T_{50}$ start (s)
bn110531448	6+7+9+11	$38.656 \pm 2.360$	-4.864	$14.592 \pm 1.145$	-0.768
bn110601681	0+1+2+9+10	$52.206 \pm 13.350$	0.003	$21.504 \pm 2.290$	4.080
bn110605183	1+2+5	$82.689 \pm 3.083$	1.536	$24.064 \pm 0.572$	4.864
bn110605780	9+10+11	$1.536 \pm 1.056$	-0.256	$0.768 \pm 0.572$	0.000
bn110609185	9+10+11	$9.984 \pm 4.471$	-3.328	$2.816 \pm 1.280$	-1.280
bn110609425	0+1+2+9	$33.024 \pm 2.896$	-6.656	$15.360 \pm 1.280$	0.512
bn110610640	0+1+2+9+10	$43.521 \pm 2.862$	-5.632	$30.720 \pm 1.056$	4.096
bn110613631	1+2+9+10	$40.193 \pm 3.874$	-0.256	$20.480 \pm 1.145$	6.144
bn110616648	8+11	$12.544 \pm 2.611$	-4.608	$4.864 \pm 1.493$	-1.280
bn110618366	2+10	$163.843 \pm 11.406$	-3.072	$51.201 \pm 2.290$	16.384
bn110618760	0+1+2	$89.601 \pm 4.291$	-0.512	$22.528 \pm 0.923$	7.680
bn110622158	3+4+5	$70.401 \pm 0.773$	6.080	$22.976 \pm 0.286$	18.688
bn110624906	3+4+5	$3.520 \pm 4.948$	-1.280	$1.664 \pm 0.590$	-0.896
bn110625579	9+10+11	$35.584 \pm 1.846$	-0.512	$9.984 \pm 0.724$	3.840
bn110625881	7+8+11	$26.881 \pm 0.572$	3.840	$14.080 \pm 0.362$	11.264
bn110626448	1+2+5	$6.400 \pm 1.145$	-0.768	$2.048 \pm 0.724$	0.256
bn110629174	0+1+2+5	$61.694 \pm 18.690$	0.003	$36.609 \pm 1.056$	1.024
bn110702187	8+11	$34.369 \pm 5.736$	-10.752	$16.384 \pm 0.640$	-0.512
bn110703557	3+6+7+8	$6.720 \pm 1.619$	-4.224	$1.344 \pm 0.232$	-0.384
bn110705151 <sup>g</sup>	3+4+5	$0.192 \pm 0.036$	-0.016	$0.128 \pm 0.023$	0.016
bn110705364	0+1+2+3+4+5	$19.200 \pm 0.923$	0.256	$10.752 \pm 0.572$	4.608
bn110706202	0+1+2+3+4+5	$12.032 \pm 4.382$	-1.536	$5.888 \pm 2.828$	1.024
bn110706477	6+7+9	$73.217 \pm 14.612$	-2.560	$16.640 \pm 0.923$	3.840
bn110706728	6+7+9	$16.896 \pm 6.339$	0.128	$10.752 \pm 0.286$	1.600
bn110706977	6+7+8	$33.216 \pm 4.007$	-14.720	$6.912 \pm 0.362$	0.320
bn110709463	0+1	$24.061 \pm 0.722$	0.003	$15.360 \pm 0.362$	2.560
bn110709642	9+10	$43.201 \pm 0.405$	1.088	$19.648 \pm 0.231$	6.464
bn110709862	1+2+10	$5.376 \pm 1.493$	-1.792	$2.304 \pm 0.572$	-0.768
bn110710954	0+1	$22.720 \pm 1.604$	-4.864	$9.856 \pm 0.202$	1.216
bn110716018	7+8	$7.168 \pm 1.747$	-3.072	$1.024 \pm 0.320$	-0.512
bn110717180 <sup>g</sup>	8+11	$0.112 \pm 0.072$	-0.016	$0.032 \pm 0.023$	0.000
bn110717319	7+8+11	$90.369 \pm 0.810$	5.376	$25.344 \pm 0.572$	12.032
bn110720177	0+1+3+4+5	$11.200 \pm 0.602$	-0.128	$4.352 \pm 0.362$	1.344
bn110721200	6+7+9+11	$21.822 \pm 0.572$	0.003	$5.376 \pm 0.572$	1.344
bn110722694	3+4+5	$73.473 \pm 11.404$	-0.512	$22.336 \pm 1.484$	12.992
bn110722710	1+2+10	$14.336 \pm 2.721$	-4.608	$4.348 \pm 0.920$	0.004
bn110725236	6+7+8+11	$20.224 \pm 1.056$	-1.024	$17.408 \pm 0.724$	-0.256

Table 6—Continued

Trigger ID	Detectors Used	$T_{90}$ (s)	$T_{90}$ start (s)	$T_{50}$ (s)	$T_{50}$ start (s)
bn110726211	7+8+11	$29.952 \pm 10.608$	-3.840	$13.312 \pm 0.923$	2.304
bn110728056	0+1+9	$0.704 \pm 0.231$	-0.128	$0.576 \pm 0.320$	-0.064
bn110729142	6+7+8	$408.582 \pm 2.290$	2.080	$354.310 \pm 2.290$	22.560
bn110730008	0+3+4	$28.416 \pm 2.919$	-7.936	$11.520 \pm 2.429$	-3.328
bn110730660	9+11	$33.856 \pm 1.811$	-8.704	$14.656 \pm 0.572$	0.512
bn110731465	0+1+3+6+9	$7.485 \pm 0.572$	0.003	$4.352 \pm 0.362$	1.344
bn110801335	8+11	$0.384 \pm 0.326$	-0.128	$0.192 \pm 0.181$	-0.064
bn110803783	6+7+9+11	$186.883 \pm 2.986$	-156.675	$153.091 \pm 3.727$	-142.338
bn110806934	0+1+2+3+5	$28.416 \pm 0.923$	0.256	$13.824 \pm 0.362$	6.144
bn110809461	0+3	$12.544 \pm 4.615$	-4.352	$2.816 \pm 0.724$	0.768
bn110812899	0+1+3	$11.264 \pm 3.727$	-2.304	$3.072 \pm 0.572$	-0.256
bn110813237	3+6+7+9	$22.784 \pm 3.114$	-1.792	$4.608 \pm 0.810$	1.280
bn110817191 <sup>e</sup>	6+7+9+11	$5.949 \pm 0.572$	0.003	$2.048 \pm 0.362$	0.832
bn110818860	7+8+11	$67.073 \pm 3.916$	-9.984	$28.928 \pm 1.379$	1.792
bn110819665	8	$16.384 \pm 6.149$	-0.512	$2.560 \pm 1.145$	0.000
bn110820476	0+1+2	$11.264 \pm 7.331$	-4.096	$2.816 \pm 1.493$	-1.792
bn110824009	0+1+2+3+4+5	$76.607 \pm 9.220$	0.003	$22.016 \pm 5.910$	0.832
bn110825102	3+4+6+7+8	$62.465 \pm 0.231$	11.648	$4.608 \pm 0.091$	13.184
bn110825265	6+7+8+9	$51.073 \pm 3.389$	-16.384	$26.048 \pm 1.175$	-6.912
bn110828575	0+1+3+7+9	$44.673 \pm 7.534$	-1.120	$12.288 \pm 2.064$	1.824
bn110831282	9+10+11	$98.881 \pm 3.138$	-20.224	$35.965 \pm 1.104$	0.003
bn110901230	0+1+5	$22.528 \pm 5.620$	-7.680	$8.960 \pm 3.114$	-3.584
bn110903009	2+5	$28.672 \pm 2.429$	-1.024	$20.480 \pm 0.572$	1.792
bn110903111	0+1+3+4+5	$341.254 \pm 2.288$	-0.256	$203.779 \pm 2.290$	11.264
bn110904124	9+10	$83.905 \pm 3.853$	-0.128	$14.848 \pm 0.724$	38.977
bn110904163	0+1+2+5	$51.457 \pm 4.128$	-1.280	$7.424 \pm 0.362$	9.216
bn110904531	9+10+11	$20.480 \pm 5.479$	-2.560	$8.192 \pm 0.923$	-0.512
bn110906302	7+8+11	$23.936 \pm 2.550$	-5.376	$6.016 \pm 0.286$	0.384
bn110909116 <sup>m</sup>	7+9	$20.736 \pm 1.639$	-12.288	$6.400 \pm 0.724$	-1.280
bn110911071	10	$8.960 \pm 4.352$	-4.608	$3.840 \pm 2.429$	-1.536
bn110916016	9+10+11	$1.792 \pm 1.993$	-1.408	$0.704 \pm 0.551$	-0.768
bn110919634	4+7+8	$35.073 \pm 3.974$	10.496	$12.032 \pm 0.810$	23.296
bn110920338	6+7+9	$9.728 \pm 0.810$	-0.512	$3.584 \pm 0.362$	0.000
bn110920546	0+1+3	$160.771 \pm 5.221$	5.120	$58.369 \pm 2.290$	18.432
bn110921444	6+7+8+9+11	$149.507 \pm 10.691$	-68.609	$83.969 \pm 23.641$	-37.889
bn110921577	2+9+10	$40.705 \pm 1.810$	-30.209	$17.920 \pm 1.379$	-15.104
bn110921912	1+9	$17.664 \pm 0.345$	0.896	$5.376 \pm 0.143$	2.624

Table 6—Continued

Trigger ID	Detectors Used	$T_{90}$ (s)	$T_{90}$ start (s)	$T_{50}$ (s)	$T_{50}$ start (s)
bn110923835	9+10+11	46.398 ± 11.279	0.003	12.800 ± 1.619	1.344
bn110926107	9+10+11	75.265 ± 1.280	-0.768	49.921 ± 0.487	13.440
bn110928180 <sup>a</sup>	0+1+3+4	148.226 ± 1.925	-119.298	15.424 ± 0.500	0.576
bn110929187	0+6+9+10	5.120 ± 0.572	-0.512	1.792 ± 0.362	0.000
bn110930564	4+5	37.889 ± 5.431	-6.912	15.616 ± 1.864	1.024
bn111001804	7+9+10+11	0.384 ± 1.361	-0.256	0.256 ± 0.286	-0.256
bn111003465	3+4+6+7+8	16.640 ± 1.056	0.512	7.168 ± 0.362	2.816
bn111005398	0+1+2+6+9+10	30.720 ± 3.093	-11.264	9.472 ± 0.724	-1.024
bn111008992	0+1+3+4+5	42.496 ± 4.128	-4.096	18.176 ± 0.923	2.304
bn111009282	0+1	20.736 ± 4.221	-0.256	6.144 ± 1.448	3.072
bn111010237	9+10	82.433 ± 8.444	-3.584	27.648 ± 2.896	6.144
bn111010660	1+2+3+4+5	8.704 ± 2.111	-1.024	4.864 ± 0.724	-0.512
bn111010709	6+7+9	52.993 ± 0.923	1.536	35.840 ± 0.572	7.680
bn111010899	6+7+9	18.560 ± 2.988	-14.656	3.328 ± 0.916	-2.112
bn111011094	6+7+8+9+11	1.472 ± 0.771	-0.064	0.192 ± 0.143	-0.064
bn111012456	2+5	20.736 ± 0.724	1.024	8.448 ± 0.572	4.608
bn111012811	3+4+6+7+8	7.936 ± 1.145	-0.512	3.072 ± 0.724	0.000
bn111015427	2+5	92.737 ± 3.319	-0.640	50.177 ± 1.361	12.800
bn111017657	1+6+7+8+9	11.072 ± 0.410	0.256	3.520 ± 0.181	3.648
bn111018595	2+9+10	8.192 ± 1.864	-0.768	3.584 ± 1.056	0.000
bn111018785	0+3+4	29.697 ± 1.810	-6.400	13.824 ± 1.280	-0.768
bn111022854	3+6+7	0.192 ± 0.707	-0.128	0.128 ± 0.091	-0.128
bn111024722	3+4+5	68.609 ± 2.896	-6.144	28.672 ± 6.229	6.144
bn111024896	7+8	1.792 ± 1.846	-0.256	1.024 ± 1.305	-0.256
bn111025078	0+1+3	51.712 ± 2.202	-0.512	31.488 ± 1.280	7.936
bn111103441	2+9+10	11.968 ± 6.426	-0.128	7.680 ± 0.724	0.576
bn111103948	4+5	0.320 ± 0.181	-0.064	0.192 ± 0.202	0.000
bn111105457	0+1+3	43.520 ± 0.572	-9.984	33.024 ± 3.415	-3.584
bn111107035	4+8	12.032 ± 0.923	-1.536	5.376 ± 1.086	0.512
bn111107076	6+9+10	77.185 ± 0.810	0.192	41.025 ± 0.410	5.504
bn111109453	1+2+9+10	4.864 ± 2.757	-2.560	1.792 ± 1.145	-0.512
bn111109873	8	9.664 ± 6.457	-4.608	3.200 ± 1.175	0.512
bn111112908	0+1+3+4+5	0.192 ± 0.091	-0.064	0.128 ± 0.091	-0.064
bn111113410	6+7+8+9+11	15.360 ± 1.639	-1.024	5.120 ± 1.145	1.792
bn111114233	0+3+4+6+7	22.016 ± 2.673	-1.536	9.216 ± 1.145	0.256
bn111117510	0+6+7+9	0.576 ± 0.143	-0.128	0.320 ± 0.091	0.000
bn111117526	0+1+6+9+10	23.808 ± 1.717	-1.280	13.824 ± 0.923	2.560

Table 6—Continued

Trigger ID	Detectors Used	$T_{90}$ (s)	$T_{90}$ start (s)	$T_{50}$ (s)	$T_{50}$ start (s)
bn111120556	1+2+10	98.626 ± 2.970	-21.248	17.408 ± 1.448	-8.192
bn111124308	6+7+8+11	8.960 ± 3.114	-0.768	3.072 ± 0.923	0.256
bn111127810	9+10	19.008 ± 2.548	-0.768	4.352 ± 0.286	6.592
bn111201599	3+4+5	16.896 ± 3.974	-1.792	8.448 ± 1.846	0.768
bn111203054	6+7+9	55.553 ± 5.684	-44.545	14.080 ± 1.557	-7.424
bn111203609	0+1+3+5	22.016 ± 6.734	-2.816	9.984 ± 6.446	-1.280
bn111207512	0+1+6+9	0.768 ± 1.145	-0.896	0.512 ± 0.181	-0.768
bn111208353	0+1+3	40.961 ± 4.345	-4.096	11.264 ± 2.290	1.024
bn111216389	2+10	83.777 ± 0.500	2.304	34.561 ± 0.871	39.425
bn111220486	0+1+2+5	39.041 ± 5.101	-6.144	13.760 ± 0.231	6.144
bn111221739	2+10	27.136 ± 7.186	-0.512	12.288 ± 11.779	-0.256
bn111222619	8+11	0.320 ± 0.143	-0.064	0.256 ± 0.091	-0.064
bn111226795	0+1+2+9+10	74.753 ± 8.749	-6.144	22.528 ± 2.290	5.120
bn111228453	3+4+6+7	2.944 ± 0.979	0.096	1.280 ± 0.231	0.736
bn111228657	6+7+8	99.842 ± 2.111	-49.409	46.337 ± 0.724	1.024
bn111230683	10	28.160 ± 1.557	-12.800	8.192 ± 1.379	-2.048
bn111230819	0+1+6+9	12.736 ± 1.145	-0.640	9.216 ± 0.572	0.832
bn120101354 <sup>b</sup>	3+6+7+8	0.128 ± 0.072	-0.096	0.064 ± 0.091	-0.064
bn120102095	3+4+5	28.417 ± 8.204	-11.520	4.032 ± 0.231	3.200
bn120102416	1+2+5	20.224 ± 2.769	-10.240	4.096 ± 0.923	-0.256
bn120105584	0+1+3	22.528 ± 2.202	-8.192	6.400 ± 1.864	-3.584
bn120107384	3+4+6+7+8	23.040 ± 0.143	0.064	16.192 ± 0.231	2.432
bn120109824	1+2	38.656 ± 3.114	-2.048	17.152 ± 1.619	0.256
bn120111051	9+10+11	76.801 ± 5.515	-2.048	25.600 ± 4.580	5.120
bn120114433	0+1+6+7+9	2.752 ± 1.569	-0.128	1.408 ± 1.120	0.128
bn120114681	1+2+5	43.264 ± 5.804	-7.936	11.264 ± 0.810	-1.536
bn120118709	6+7	37.825 ± 12.586	-3.328	10.752 ± 1.145	1.472
bn120118898	6+7+8+11	17.152 ± 2.111	-0.512	12.800 ± 0.362	-0.256
bn120119170	9+10+11	55.297 ± 6.229	3.072	16.384 ± 1.448	11.264
bn120119229	0+1+3	41.728 ± 1.557	0.000	19.712 ± 1.056	2.304
bn120119354	3+6+7	16.384 ± 1.493	-7.936	5.632 ± 0.362	-0.768
bn120120432	6+7+9+11	32.256 ± 6.481	0.000	13.312 ± 1.717	3.328
bn120121101	0+1+2+3+5	18.432 ± 3.727	-3.328	6.144 ± 0.724	0.768
bn120121251	4+7+8	37.121 ± 11.876	-5.632	10.752 ± 0.572	7.168
bn120122300	7+8+11	16.701 ± 1.881	0.003	5.632 ± 0.923	2.112
bn120129312	3+4	1.280 ± 0.689	-0.640	0.384 ± 0.362	-0.512
bn120129580	7+8+11	3.072 ± 0.362	0.320	1.536 ± 0.362	1.088

Table 6—Continued

Trigger ID	Detectors Used	$T_{90}$ (s)	$T_{90}$ start (s)	$T_{50}$ (s)	$T_{50}$ start (s)
bn120130699	8+10+11	$27.777 \pm 0.694$	-0.640	$13.184 \pm 0.462$	9.600
bn120130906	3+4+6+7+8	$3.584 \pm 1.379$	-1.280	$2.048 \pm 0.572$	-0.768
bn120130938	0+9	$38.913 \pm 7.455$	-5.120	$9.216 \pm 2.290$	4.096
bn120203812	2+5	$10.240 \pm 2.429$	-4.864	$2.560 \pm 0.572$	-2.048
bn120204054	0+1+3+5	$49.089 \pm 0.429$	10.176	$13.568 \pm 0.143$	32.129
bn120205285	3+4+5	$0.576 \pm 0.272$	-0.576	$0.320 \pm 0.143$	-0.448
bn120206949	7+8+11	$9.472 \pm 3.338$	-0.256	$1.024 \pm 0.362$	4.352
bn120210650	0+1+2+3+9	$1.344 \pm 0.264$	-0.064	$0.704 \pm 0.181$	0.000
bn120212353 <sup>b</sup>	1+6+9	$0.864 \pm 0.577$	-0.832	$0.480 \pm 0.611$	-0.544
bn120212383	0+3+4	$9.216 \pm 0.724$	-2.048	$3.584 \pm 1.145$	-1.024
bn120213606	6+7+8+11	$13.824 \pm 3.328$	-3.072	$4.352 \pm 0.362$	0.512
bn120217808	8+11	$5.888 \pm 2.862$	-0.512	$1.536 \pm 0.572$	0.000
bn120217904	1+2+5	$2.624 \pm 0.300$	-0.224	$0.384 \pm 0.143$	0.416
bn120218276	0+1+6+9+10	$256.260 \pm 5.221$	-212.996	$191.235 \pm 1.999$	-184.579
bn120219563	0+1+2+3	$8.128 \pm 0.429$	-1.152	$4.544 \pm 0.410$	-0.128
bn120220210	0+1+9+10	$21.248 \pm 1.639$	-5.376	$9.216 \pm 1.379$	-1.792
bn120222021	1+3+4+5	$1.088 \pm 0.143$	-0.064	$0.512 \pm 0.143$	0.064
bn120222119	2+5	$29.440 \pm 5.382$	-5.120	$9.728 \pm 1.846$	-1.280
bn120223933	0+1+9+10	$14.336 \pm 2.360$	-0.512	$4.352 \pm 0.724$	0.512
bn120224282	9+10+11	$60.929 \pm 3.093$	1.792	$44.033 \pm 1.379$	11.776
bn120224898	0+1+3+5	$29.184 \pm 4.222$	0.256	$12.288 \pm 1.086$	3.840
bn120226447	8	$14.592 \pm 3.916$	-3.264	$4.864 \pm 0.362$	0.320
bn120226871	0+1+2	$52.993 \pm 0.572$	4.352	$23.040 \pm 0.572$	11.520
bn120227391	8+11	$19.712 \pm 1.717$	-0.768	$12.032 \pm 0.572$	3.840
bn120227725	8+11	$17.408 \pm 0.810$	0.256	$6.656 \pm 0.572$	5.632
bn120302080	8+11	$80.384 \pm 16.927$	0.768	$43.776 \pm 2.521$	8.960
bn120302722	4+5	$1.600 \pm 0.779$	-0.128	$0.512 \pm 0.466$	0.000
bn120304061	6+7+8+9+11	$9.984 \pm 1.055$	-0.256	$3.328 \pm 0.362$	0.512
bn120304248	4+5	$5.376 \pm 0.572$	-0.256	$3.072 \pm 0.572$	0.512
bn120308588	4+8	$25.600 \pm 1.557$	-21.504	$2.048 \pm 0.362$	-0.512
bn120312671	0+1+2+9+10	$13.312 \pm 3.167$	-2.048	$4.608 \pm 0.923$	-0.512
bn120314412	0+1+3	$1.280 \pm 1.086$	-1.280	$0.768 \pm 0.923$	-0.768
bn120316008	0+1+9	$26.624 \pm 0.362$	1.536	$11.264 \pm 0.810$	10.240
bn120319983	6+7+9	$72.448 \pm 7.832$	-4.608	$40.448 \pm 3.114$	1.536
bn120323162	9+10+11	$4.352 \pm 0.724$	-0.768	$1.536 \pm 0.362$	-0.256
bn120323507	0+1+3	$0.448 \pm 0.091$	-0.064	$0.192 \pm 0.091$	-0.064
bn120326056	0+1+2+3+5	$11.776 \pm 1.810$	-1.280	$4.096 \pm 0.724$	0.256



Table 6—Continued

Trigger ID	Detectors Used	$T_{90}$ (s)	$T_{90}$ start (s)	$T_{50}$ (s)	$T_{50}$ start (s)
bn120327418	8+11	$0.256 \pm 1.319$	-0.192	$0.128 \pm 1.032$	-0.192
bn120328268	6+7+8+9+11	$29.697 \pm 1.056$	3.840	$14.848 \pm 0.572$	6.912
bn120331055	4+5	$16.384 \pm 10.367$	-2.816	$1.280 \pm 3.328$	2.560
bn120402669	10+11	$20.224 \pm 0.810$	-2.080	$2.524 \pm 0.572$	0.004
bn120403857	9+10	$4.288 \pm 1.935$	-3.968	$1.408 \pm 1.620$	-1.536
bn120410585	9+10+11	$1.088 \pm 1.180$	-1.024	$0.192 \pm 0.143$	-0.128
bn120411925	3+4+5	$38.912 \pm 1.493$	0.000	$35.072 \pm 1.145$	1.536
bn120412055	3+4+5	$9.728 \pm 3.566$	-4.096	$3.584 \pm 1.717$	-2.560
bn120412920	2+5	$101.182 \pm 4.871$	0.003	$11.264 \pm 0.572$	71.745
bn120415076 <sup>o</sup>	6+7+8+9+11	$12.544 \pm 4.128$	-0.512	$3.584 \pm 0.923$	0.512
bn120415891	6+7+9+10+11	$0.960 \pm 0.264$	-0.256	$0.320 \pm 0.181$	-0.192
bn120415958	10+11	$12.544 \pm 1.717$	-4.352	$4.096 \pm 0.724$	-2.816
bn120420249	1+2+5	$25.600 \pm 4.419$	-0.768	$6.912 \pm 0.923$	1.280
bn120420858	4+8	$254.913 \pm 4.222$	0.003	$124.866 \pm 3.238$	21.504
bn120426090	2+10	$2.880 \pm 0.181$	0.224	$1.152 \pm 0.091$	0.672
bn120426585	6+7+8+11	$30.973 \pm 3.620$	0.003	$13.824 \pm 0.810$	2.816
bn120427054	9+10+11	$5.632 \pm 0.572$	0.256	$2.048 \pm 0.572$	1.280
bn120427153	0+1+3+6+7	$22.784 \pm 1.999$	-2.304	$11.520 \pm 1.086$	-0.512
bn120429003	9+10+11	$1.664 \pm 0.968$	-0.192	$0.640 \pm 0.326$	0.000
bn120429484	0+1+3+4+5	$15.360 \pm 1.619$	-1.024	$10.240 \pm 1.145$	0.000
bn120430980	0+1+9	$14.592 \pm 2.172$	-2.304	$7.168 \pm 1.717$	-1.280
bn120504468	1+3+4+5	$41.985 \pm 2.673$	-0.512	$20.480 \pm 0.724$	5.888
bn120504945	6+7+11	$5.760 \pm 0.779$	-2.304	$2.048 \pm 0.405$	-0.640
bn120506128	3+6+7	$2.304 \pm 1.379$	-0.768	$1.280 \pm 0.724$	-0.512
bn120509619	6+9+10+11	$0.704 \pm 1.404$	-0.192	$0.320 \pm 0.143$	-0.128
bn120510900	10+11	$62.465 \pm 3.908$	1.792	$27.392 \pm 1.493$	15.872
bn120511638	3+8+9	$45.249 \pm 2.940$	-0.128	$24.576 \pm 4.580$	2.112
bn120512112	0+1+2+9+10	$18.176 \pm 1.350$	0.384	$7.360 \pm 0.345$	4.096
bn120513531	6+7+9	$23.808 \pm 0.923$	-0.512	$9.984 \pm 8.764$	8.448
bn120519721	4+7+8	$0.960 \pm 0.202$	-0.128	$0.448 \pm 0.091$	0.192
bn120520949	0+1+3+5	$5.760 \pm 1.356$	-4.736	$3.456 \pm 0.345$	-3.264
bn120521380	9+10+11	$91.134 \pm 4.222$	0.004	$19.456 \pm 2.896$	4.096
bn120522361	4+5	$28.160 \pm 8.039$	-11.520	$8.448 \pm 1.056$	3.072
bn120524134	3+4	$0.704 \pm 0.466$	-0.128	$0.256 \pm 0.143$	-0.128
bn120526303	4	$43.649 \pm 1.002$	3.072	$24.448 \pm 0.272$	13.120
bn120528442	9+10+11	$16.384 \pm 5.177$	-0.768	$5.376 \pm 0.362$	1.024
bn120530121	3+6+7	$77.054 \pm 1.810$	0.003	$51.457 \pm 0.572$	3.840

Table 6—Continued

Trigger ID	Detectors Used	$T_{90}$ (s)	$T_{90}$ start (s)	$T_{50}$ (s)	$T_{50}$ start (s)
bn120531393	9+10+11	25.344 ± 7.186	-2.816	7.424 ± 0.923	-1.024
bn120603439	4+7+8	0.384 ± 0.345	-0.064	0.256 ± 0.091	-0.064
bn120604220	4+7+8	10.496 ± 5.615	-2.816	4.352 ± 2.111	-0.512
bn120604343	3+4+5	12.032 ± 3.278	-2.560	5.632 ± 1.280	0.000
bn120605453	9+10+11	18.112 ± 1.086	-0.640	3.389 ± 1.557	0.003
bn120608489	3+6+7	0.960 ± 1.611	-0.192	0.448 ± 0.326	-0.064
bn120608777	6+7+8	24.832 ± 3.840	-14.336	9.216 ± 0.810	-4.608
bn120609580	0+1+3	1.792 ± 0.810	-0.768	1.024 ± 0.362	-0.512
bn120611108	6+7+9	49.921 ± 1.639	-9.216	27.392 ± 1.846	1.280
bn120612680	9+10	63.232 ± 7.886	-10.496	32.256 ± 1.950	1.024
bn120612687	3+4+8	0.256 ± 0.453	-0.192	0.192 ± 0.143	-0.192
bn120616630 <sup>g</sup>	3+6+7	0.048 ± 0.484	-0.048	0.032 ± 0.036	-0.048
bn120618128	0+1+2+9	17.600 ± 1.820	-0.128	5.888 ± 0.572	1.600
bn120618919	10	47.616 ± 12.299	-20.480	14.848 ± 0.724	-3.584
bn120619884	6+7+9	0.960 ± 0.960	-0.256	0.384 ± 0.181	-0.128
bn120624309 <sup>b</sup>	1+2+9+10	0.640 ± 0.160	-0.064	0.160 ± 0.072	0.032
bn120624933	0+1+2+9+10	271.364 ± 4.580	-257.028	112.642 ± 4.580	-185.347
bn120625119	2+4+5	7.424 ± 0.571	-0.256	2.560 ± 0.362	2.048
bn120629565	3+6+7+8	0.704 ± 1.026	-0.384	0.320 ± 0.405	-0.256
bn120701654	8+10+11	1.024 ± 1.451	-0.960	0.128 ± 1.313	-0.192
bn120702891 <sup>P</sup>	6+7+9	35.073 ± 4.924	-1.024	15.360 ± 2.111	1.024
bn120703417	3+4+5	64.513 ± 3.083	-0.512	36.609 ± 2.064	3.840
bn120703498	4+8	77.568 ± 2.187	-2.048	34.304 ± 11.531	0.768
bn120703726	6+7+9+10+11	8.960 ± 1.379	0.768	1.536 ± 0.362	4.608
bn120707800	8+11	40.960 ± 4.238	1.520	16.640 ± 0.724	14.064
bn120709883	6+7+9	27.328 ± 0.958	-0.128	11.776 ± 0.362	10.816
bn120710100	0+3+4+6+7	131.840 ± 1.056	0.000	94.720 ± 5.382	26.112
bn120711115	2+10	44.033 ± 0.724	62.465	25.088 ± 0.724	71.681
bn120711446	0+1+3	87.552 ± 3.874	-1.280	45.312 ± 1.379	5.376
bn120712571	0+3+4+6+7	22.528 ± 5.431	-1.792	7.424 ± 0.572	2.048
bn120713226	3+4+5	13.824 ± 3.435	-3.072	5.888 ± 3.482	-1.280
bn120715066	0+2+9+10	29.696 ± 3.083	-4.864	14.080 ± 1.145	2.048
bn120716577	10+11	24.960 ± 3.958	-5.888	7.680 ± 0.820	0.512
bn120716712	9+10+11	237.056 ± 4.104	0.256	25.600 ± 0.362	180.736
bn120719146	1+2+9+10	75.009 ± 3.114	0.768	32.513 ± 1.086	7.168
bn120727354	0+1+2+9	0.896 ± 1.280	-0.896	0.512 ± 0.462	-0.640
bn120727681	1+2+9+10	10.496 ± 1.639	-0.224	4.125 ± 1.448	0.003

Table 6—Continued

Trigger ID	Detectors Used	$T_{90}$ (s)	$T_{90}$ start (s)	$T_{50}$ (s)	$T_{50}$ start (s)
bn120728434	2+5	100.481 ± 6.623	11.008	50.753 ± 1.132	24.640
bn120728934	4+5	32.768 ± 2.429	-1.536	13.568 ± 0.923	2.048
bn120729456	1+2+9+10	25.472 ± 2.612	-1.024	8.320 ± 0.345	1.344
bn120801920	4	479.239 ± 23.752	-7.168	435.206 ± 1.448	6.144
bn120805706	2+9+10	1.856 ± 1.296	-0.960	0.768 ± 0.410	-0.704
bn120806007	6+7+8+9	26.624 ± 1.557	-0.256	7.680 ± 0.810	2.560
bn120811014	4+7+8	0.448 ± 0.091	-0.128	0.320 ± 0.091	-0.064
bn120811649	4+8	14.336 ± 6.557	-7.168	6.144 ± 2.721	-3.072
bn120814201	2+10	0.896 ± 1.032	-0.384	0.512 ± 0.231	-0.128
bn120814803	0+3+4+6+7	0.192 ± 0.272	-0.192	0.128 ± 0.181	-0.128
bn120817057	7+8+11	36.864 ± 4.672	-6.400	11.520 ± 1.448	-1.280
bn120817168	6+7+8+11	0.160 ± 0.113	-0.032	0.032 ± 0.023	-0.016
bn120819048	0+1+3	66.304 ± 1.379	-5.632	59.392 ± 0.572	-0.768
bn120820585	0+1+3+5	107.522 ± 9.159	-17.408	33.025 ± 5.790	-0.256
bn120822628	0+6+7+9	1.536 ± 0.842	-1.280	0.768 ± 0.707	-0.768
bn120824594	3+4+5+6	111.618 ± 7.241	-8.192	29.697 ± 3.692	5.120
bn120827216	2+10	5.056 ± 2.127	-1.664	1.984 ± 0.269	-0.128
bn120830212	10	16.064 ± 3.649	0.448	4.032 ± 0.640	1.856
bn120830297	0+1+3	0.896 ± 0.231	0.000	0.576 ± 0.181	0.128
bn120830702	0+1+2+3+5	49.665 ± 4.382	-15.616	22.784 ± 0.572	5.632
bn120831901	3+4+5	0.384 ± 0.547	-0.256	0.128 ± 0.143	-0.128
bn120905657	6+7+9+10+11	195.587 ± 16.795	-7.168	83.969 ± 7.384	10.240
bn120907017	4	5.760 ± 1.778	-1.920	1.152 ± 0.462	-0.896
bn120908873	2+10	46.849 ± 2.611	0.576	13.824 ± 0.724	10.048
bn120908938	3+4+8	66.945 ± 2.988	-4.608	32.193 ± 8.262	3.712
bn120909070	6+7+8	112.066 ± 10.419	-0.768	68.865 ± 3.661	14.976
bn120911298	6+7+9	22.016 ± 1.833	-4.480	7.936 ± 1.305	-0.512
bn120913846	1+2+5	33.792 ± 1.379	-1.536	22.272 ± 0.724	1.024
bn120913997	0+1+3+4+5	130.050 ± 3.566	-32.001	47.105 ± 1.056	2.304
bn120914144	3+4+7	10.240 ± 4.048	-1.280	2.304 ± 1.056	-0.512
bn120915000	0+1+3	0.576 ± 1.318	-0.320	0.320 ± 0.091	-0.128
bn120915474	3+4+7+8	5.888 ± 0.923	-2.304	3.328 ± 1.145	-0.768
bn120916085	3+4+6+7+8	1.280 ± 1.493	-0.256	0.896 ± 0.528	-0.256
bn120916173	6+9+10	52.993 ± 0.810	-52.737	20.480 ± 0.362	-49.921
bn120919052	0+1+3	118.018 ± 0.362	2.048	12.288 ± 0.362	35.840
bn120919309	0+1+2+3+5	21.248 ± 1.810	0.512	2.816 ± 0.572	2.304
bn120919816	6+7+8+9	20.480 ± 1.305	-3.072	6.656 ± 0.810	-1.280

Table 6—Continued

Trigger ID	Detectors Used	$T_{90}$ (s)	$T_{90}$ start (s)	$T_{50}$ (s)	$T_{50}$ start (s)
bn120920003	6+7+9+11	28.160 ± 4.382	-1.792	12.288 ± 1.999	2.304
bn120921877	3+4+5	5.632 ± 1.145	-0.256	1.280 ± 0.572	0.000
bn120922939	1+2+5	182.275 ± 19.777	-113.666	95.233 ± 4.580	-92.162
bn120926335	0+1+2+9+10	4.288 ± 1.833	-0.640	1.536 ± 0.362	0.320
bn120926426	7+8	60.161 ± 3.482	-2.304	10.752 ± 1.305	0.768
bn120926753	7+8+11	3.072 ± 2.064	-1.536	1.280 ± 1.305	-1.280
bn121004211	3+4	1.536 ± 0.572	-0.512	0.768 ± 0.362	-0.256
bn121005030	5	96.768 ± 3.556	-31.232	26.880 ± 13.373	-12.800
bn121005340	0+1+2+5	141.568 ± 3.665	0.000	98.048 ± 2.290	17.152
bn121008424	0+1+9	3.456 ± 0.345	-0.320	2.304 ± 0.181	-0.128
bn121011469	0+1+2+3+5	65.793 ± 4.382	1.024	18.176 ± 1.305	3.840
bn121012724	6+7+8+9+11	0.448 ± 0.091	-0.128	0.256 ± 0.143	-0.064
bn121014638	6+7+8+9+11	0.576 ± 0.979	-0.640	0.192 ± 0.181	-0.448
bn121019233	6+7+8	14.336 ± 7.907	-2.560	6.912 ± 4.238	2.048
bn121023322	9+10	0.512 ± 0.181	-0.128	0.320 ± 0.091	-0.064
bn121027038	2+10	166.915 ± 3.692	-65.537	93.442 ± 2.415	-0.256
bn121028280	7+8+11	11.008 ± 2.360	-1.792	3.328 ± 0.724	-0.256
bn121029350	0+1+3+4+5	15.808 ± 0.572	-0.896	2.816 ± 0.572	10.816
bn121031949	3+4+5	242.436 ± 4.404	-27.392	193.795 ± 1.145	4.096
bn121102064	3+4+5	2.048 ± 1.379	-1.536	1.280 ± 0.572	-0.768
bn121104627	6+9+10+11	59.137 ± 7.241	-1.024	20.224 ± 3.665	2.304
bn121109338	8+11	22.144 ± 2.919	-6.912	5.824 ± 0.272	0.512
bn121112806	6+7+9+10+11	1.280 ± 1.358	-0.128	0.384 ± 0.590	0.128
bn121113544	9+10	95.490 ± 2.611	1.536	49.665 ± 0.572	12.032
bn121116459	4+5	0.832 ± 0.590	-0.704	0.448 ± 0.181	-0.448
bn121117018	0+1+2+3+5	331.782 ± 4.048	-270.341	48.385 ± 2.986	-30.977
bn121118576	1+2+9+10	33.277 ± 0.808	0.003	17.920 ± 0.724	3.840
bn121119579	6+7+8	2.304 ± 0.429	-0.256	1.024 ± 0.202	-0.064
bn121122564	6+7+9+10+11	8.704 ± 0.724	-1.280	3.072 ± 0.572	-0.768
bn121122870	9+10+11	125.439 ± 0.724	0.003	108.290 ± 0.724	11.520
bn121122885	10	7.936 ± 0.572	0.512	3.584 ± 0.362	2.048
bn121123421	3+4+5	102.338 ± 31.849	3.840	34.625 ± 8.155	18.560
bn121123442	9+10+11	42.497 ± 1.999	2.304	17.408 ± 0.572	11.520
bn121124606	10+11	0.256 ± 0.842	-0.128	0.128 ± 0.143	-0.128
bn121125356	0+3+4+6	49.857 ± 2.099	-6.144	25.088 ± 0.724	9.024
bn121125469	0+1+3	12.864 ± 4.844	-2.304	4.416 ± 1.088	-1.024
bn121127914	4+8	0.640 ± 0.405	-0.064	0.128 ± 0.091	0.000

Table 6—Continued

Trigger ID	Detectors Used	$T_{90}$ (s)	$T_{90}$ start (s)	$T_{50}$ (s)	$T_{50}$ start (s)
bn121128212	3+4	$17.344 \pm 0.923$	-0.768	$6.016 \pm 0.181$	3.008
bn121202181	0+1+2+5	$17.152 \pm 1.999$	-4.608	$10.240 \pm 1.145$	-1.792
bn121205507	0+1+3	$2.816 \pm 0.231$	-0.384	$2.432 \pm 0.272$	-0.192
bn121210081	3+4	$12.800 \pm 3.238$	-1.536	$7.164 \pm 1.448$	0.004
bn121211574	3+4+5	$5.632 \pm 1.717$	-3.072	$2.048 \pm 1.145$	-1.536
bn121211695	6+7+9+10+11	$8.960 \pm 1.864$	-0.512	$3.328 \pm 0.362$	0.256
bn121216419	3+4	$9.216 \pm 2.560$	-2.048	$5.120 \pm 0.810$	-0.256
bn121217313	9+10	$828.672 \pm 11.363$	-807.424	$736.512 \pm 1.280$	-736.256
bn121220311	6+7+9	$5.120 \pm 0.810$	-1.280	$3.584 \pm 0.724$	-0.512
bn121221916	0+1+3+4+5	$38.913 \pm 2.290$	-3.072	$14.336 \pm 2.896$	1.024
bn121223300	6+7+8+9+11	$11.005 \pm 0.724$	0.003	$4.096 \pm 0.362$	2.048
bn121225417	1+3+5	$58.497 \pm 0.820$	9.472	$35.585 \pm 0.181$	19.328
bn121229533	3+4+5	$23.037 \pm 1.810$	0.003	$6.656 \pm 0.724$	2.048
bn121231445	1+2+5	$32.768 \pm 5.152$	-5.632	$13.312 \pm 2.318$	0.000
bn130104721	0+1+3	$26.368 \pm 3.593$	-1.792	$9.472 \pm 0.572$	2.560
bn130106829	0+1+3	$11.264 \pm 1.379$	-2.560	$7.420 \pm 0.572$	0.004
bn130106995	2+5	$70.401 \pm 0.572$	-1.024	$49.921 \pm 0.923$	7.168
bn130109206	0+1+3+5	$8.960 \pm 1.208$	-3.584	$2.816 \pm 0.462$	0.576
bn130112286	0+1+3+5	$35.328 \pm 1.846$	-29.696	$14.848 \pm 2.111$	-12.288
bn130112353	6+7+9	$2.048 \pm 1.557$	-0.768	$0.768 \pm 0.362$	-0.256
bn130114019	0+1+3+4+5	$8.704 \pm 1.846$	-2.048	$4.608 \pm 1.619$	-1.024
bn130115716	6+7+8+11	$13.568 \pm 1.846$	-3.840	$5.888 \pm 0.572$	1.280
bn130116415	4+5	$66.816 \pm 6.085$	-4.096	$47.360 \pm 1.639$	-1.792
bn130117087	3+4+6	$78.848 \pm 2.636$	1.792	$30.464 \pm 1.280$	22.528
bn130118482	3+4+7	$21.568 \pm 14.999$	-5.632	$6.400 \pm 1.231$	-0.576
bn130121835	4+8	$178.691 \pm 1.145$	1.792	$25.856 \pm 2.318$	5.632
bn130123843	0+1+3+5	$22.02 \pm 1.45$	-3.328	$11.78 \pm 0.572$	-0.256
bn130127299	0+1+3	$19.456 \pm 2.721$	-3.840	$12.288 \pm 3.665$	-1.536
bn130127743	0+1+3+4+5	$0.144 \pm 0.804$	-0.112	$0.016 \pm 0.036$	-0.016
bn130131511	7+8	$147.459 \pm 1.145$	3.584	$55.553 \pm 0.572$	24.576
bn130204484	0+6+9+10	$0.192 \pm 0.091$	-0.128	$0.128 \pm 0.091$	-0.128
bn130206482	0+1+2+3+5	$11.264 \pm 1.950$	-4.608	$2.816 \pm 0.724$	1.280
bn130206817	3+6	$91.586 \pm 12.332$	-2.560	$46.849 \pm 3.967$	2.560
bn130208684	6+7+9+10+11	$41.472 \pm 2.360$	-1.024	$30.208 \pm 0.923$	2.304
bn130209961	6+7+9	$9.790 \pm 0.408$	0.003	$5.120 \pm 0.572$	3.136
bn130213905	9+10+11	$15.360 \pm 6.557$	-5.632	$6.144 \pm 2.064$	-1.792
bn130214137	0+1+3+5	$96.768 \pm 5.443$	-3.328	$48.384 \pm 3.908$	1.792

Table 6—Continued

Trigger ID	Detectors Used	$T_{90}$ (s)	$T_{90}$ start (s)	$T_{50}$ (s)	$T_{50}$ start (s)
bn130214800	3+4+6+7+8	13.760 ± 1.639	-3.584	4.288 ± 0.320	1.152
bn130215063	1+2+10	143.746 ± 13.029	-5.632	38.913 ± 1.741	7.680
bn130215649	4+5	58.113 ± 1.557	6.912	26.368 ± 0.810	17.152
bn130216790	2+10	12.992 ± 1.280	-5.248	3.072 ± 0.572	0.576
bn130216927	1+2+9+10	6.592 ± 0.345	-0.192	3.136 ± 0.466	2.176
bn130217688	7+8+11	14.848 ± 2.202	-11.264	4.608 ± 2.290	-4.096
bn130218261	2+10	37.121 ± 3.665	-6.144	19.200 ± 0.923	6.144
bn130219197	7+8+9+10+11	168.003 ± 2.172	5.376	68.353 ± 1.145	44.097
bn130219626	9+10+11	1.536 ± 1.405	-1.088	0.064 ± 0.091	-0.064
bn130219775	3+4+5	96.130 ± 0.405	0.640	9.536 ± 0.272	75.777
bn130220964	0+1+2+3+5	6.400 ± 0.810	0.256	2.816 ± 0.362	1.280
bn130224370	3+4+6+7+8	70.913 ± 4.291	-35.841	13.056 ± 3.416	-4.096
bn130228111	0+1+3	111.106 ± 2.986	-11.008	62.721 ± 1.379	22.272
bn130228212	10	15.421 ± 0.407	0.003	8.192 ± 0.362	5.696
bn130304410	10+11	67.841 ± 2.862	0.832	20.992 ± 0.810	4.672
bn130304658	2+10	23.296 ± 4.382	-15.360	9.984 ± 0.923	-3.584
bn130305486	6+7+9+10	25.600 ± 1.557	1.280	4.864 ± 0.572	4.352
bn130305526	0+1+3	118.528 ± 15.691	1.280	92.672 ± 3.566	6.912
bn130306991	2+4+5	120.578 ± 5.515	-17.664	36.609 ± 1.448	16.128
bn130307126	6+7+8+9+11	0.384 ± 0.091	-0.064	0.256 ± 0.091	0.000
bn130307238	4+5	63.488 ± 1.846	-12.288	26.880 ± 0.923	-2.560
bn130310840	9+10+11	16.000 ± 2.561	4.096	0.704 ± 0.091	4.160
bn130314147	6+7+8	142.851 ± 2.360	1.536	50.945 ± 1.305	9.216
bn130318456	6+7	121.088 ± 1.448	-2.816	112.640 ± 0.923	1.280
bn130320560	0+1+6+9+10	352.768 ± 2.111	-138.496	301.056 ± 1.056	-136.704
bn130324042	0+1+2+9+10	56.320 ± 2.862	-6.144	19.712 ± 1.379	0.512
bn130325005	6+7+9	0.640 ± 0.453	-0.064	0.256 ± 0.231	-0.064
bn130325203	6+7+8+9+11	6.912 ± 0.724	0.768	2.304 ± 0.572	1.792
bn130327350	0+1+2	31.233 ± 0.724	2.048	18.688 ± 0.362	7.168
bn130331566	8+11	13.824 ± 1.379	-0.512	3.840 ± 0.362	3.328
bn130403866	7+8+11	22.784 ± 5.838	-7.936	9.728 ± 2.415	-1.792
bn130404428	1+3+4+5	3.328 ± 1.493	-1.536	2.048 ± 1.280	-0.768
bn130404840	6+7	34.561 ± 2.573	0.320	22.016 ± 0.572	1.344
bn130404877	0+1+3	0.960 ± 1.729	-0.128	0.256 ± 0.607	-0.064
bn130406288	0+6+9+10	7.936 ± 1.305	-0.512	1.536 ± 0.572	0.512
bn130406334	2+10	88.832 ± 3.444	-5.120	25.088 ± 25.876	-1.280
bn130406354	0+1+3	2.560 ± 1.619	-1.280	0.768 ± 0.923	-0.512

Table 6—Continued

Trigger ID	Detectors Used	$T_{90}$ (s)	$T_{90}$ start (s)	$T_{50}$ (s)	$T_{50}$ start (s)
bn130407800	0+1+3+5	32.000 ± 9.137	-5.632	13.824 ± 2.415	-1.024
bn130408653	3+4+5	9.216 ± 3.665	-4.864	2.560 ± 0.724	-0.256
bn130409960	1+2+5	26.112 ± 1.056	0.256	7.680 ± 1.056	9.472
bn130416690	0+1+3	3.072 ± 2.429	-2.816	1.280 ± 1.056	-1.792
bn130416770	3+4+5	0.192 ± 0.425	-0.048	0.048 ± 0.036	0.000
bn130418844	7+8+11	169.472 ± 2.560	-45.056	99.328 ± 0.923	-3.072
bn130420313	2+10	104.962 ± 8.809	-59.649	23.040 ± 3.278	-9.728
bn130420343	3+4+6+7+8	38.913 ± 2.111	-15.872	13.312 ± 1.086	-4.096
bn130420422	10+11	27.329 ± 5.101	-2.432	5.376 ± 1.305	0.576
bn130420539	3+6+7+8	13.824 ± 5.278	-7.168	4.864 ± 0.923	-2.048
bn130425327	10	62.209 ± 1.145	1.856	18.432 ± 0.724	36.929
bn130427324	6+9+10	138.242 ± 3.238	4.096	4.096 ± 1.448	6.144
bn130502327	6+7+8	24.320 ± 0.362	7.168	10.240 ± 0.362	13.568
bn130502743	9+10	3.328 ± 2.064	-0.512	2.304 ± 0.572	-0.256
bn130503214	6+7+9	0.880 ± 0.910	-0.864	0.016 ± 0.865	-0.016
bn130504314	3+4	0.384 ± 0.181	0.000	0.192 ± 0.091	0.064
bn130504978	2+9+10	73.217 ± 2.111	8.704	46.849 ± 0.362	17.664
bn130505955	4+8	50.241 ± 8.009	0.384	20.480 ± 1.346	3.456
bn130507545	4+6+7+8	60.160 ± 5.938	0.000	22.016 ± 0.724	4.096
bn130509078	6+7+9	24.320 ± 3.593	0.512	7.424 ± 0.572	2.048
bn130509839	0+1+3+5	31.488 ± 2.673	-4.864	11.264 ± 1.379	-0.512
bn130510877	3+4	29.440 ± 4.261	-4.096	9.728 ± 1.379	0.000
bn130514560	2+10	17.408 ± 3.435	-0.512	4.608 ± 0.572	0.000
bn130515056	4+8	0.256 ± 0.091	-0.064	0.064 ± 0.091	0.000
bn130515430	4+6+7+8	20.480 ± 5.120	-3.584	10.496 ± 1.639	-1.024
bn130515755	2+10	2.560 ± 0.572	-0.512	1.536 ± 0.572	-0.256
bn130517781	0+1+3	33.280 ± 1.280	0.512	17.920 ± 0.572	6.400
bn130518551	6+7+8+9+11	4.096 ± 2.573	0.000	1.280 ± 0.572	0.256
bn130518580	3+4+6+7	48.577 ± 0.916	9.920	6.848 ± 0.181	23.872
bn130522510	3+4+5	27.904 ± 3.367	-0.512	15.872 ± 0.724	1.792
bn130523095	2+5	17.920 ± 1.448	2.560	9.472 ± 0.362	9.216
bn130523198	0+1+3+6+7+9	5.376 ± 0.923	-1.280	2.560 ± 0.572	0.256
bn130527627	2+9+10	27.776 ± 1.438	-0.896	9.408 ± 0.345	5.888
bn130528503	0+1+2	66.304 ± 6.700	-39.680	20.736 ± 0.810	-16.896
bn130528695	0+2+5	55.553 ± 1.864	0.576	25.856 ± 1.557	3.904
bn130530719	0+1+6+9	58.621 ± 1.863	0.003	28.160 ± 2.064	3.840
bn130604033	9+10+11	26.880 ± 0.923	-0.256	8.192 ± 0.362	9.216

Table 6—Continued

Trigger ID	Detectors Used	$T_{90}$ (s)	$T_{90}$ start (s)	$T_{50}$ (s)	$T_{50}$ start (s)
bn130606316	3+4+6+7+8	24.128 ± 0.410	-0.256	9.280 ± 0.373	3.264
bn130606497	7+8+11	52.225 ± 0.724	5.376	35.329 ± 0.572	11.776
bn130609129	6+7+9	5.376 ± 1.498	-2.624	2.560 ± 0.975	-1.600
bn130609902	4+5	191.491 ± 2.862	4.864	15.104 ± 0.724	9.728
bn130610133	7+8	21.760 ± 1.639	-2.560	7.680 ± 0.724	2.816
bn130611538	6+7	66.816 ± 6.700	0.256	22.784 ± 1.379	5.376
bn130612141	6+7+9+11	7.424 ± 6.192	-2.560	2.048 ± 1.379	-1.280
bn130612456	6+7+8	10.240 ± 0.653	0.352	1.664 ± 0.181	1.440
bn130614997	0+1+3	9.280 ± 1.972	-0.064	2.944 ± 0.286	0.768
bn130615398	2+10	21.760 ± 6.763	-4.864	5.888 ± 1.086	-0.768
bn130617564	2	0.768 ± 0.630	-0.448	0.384 ± 0.181	-0.320
bn130620498	0+1+3+5	14.592 ± 4.404	-11.264	4.608 ± 1.305	-4.096
bn130622615	6+7+8+11	0.960 ± 0.429	-0.768	0.384 ± 0.231	-0.384
bn130623130	0+3+4+6+7	29.440 ± 0.724	-0.512	28.416 ± 0.724	0.000
bn130623396	0+3+4+7	44.544 ± 3.665	-2.816	16.128 ± 3.238	1.024
bn130623488	0+3+4	22.272 ± 0.923	-1.792	13.312 ± 1.145	2.816
bn130623699	10+11	7.680 ± 2.560	-5.632	2.560 ± 1.145	-3.840
bn130623790	4+5	42.241 ± 1.863	0.256	25.088 ± 0.724	5.632
bn130624093	6+7+9+11	13.824 ± 5.152	-2.816	6.912 ± 1.086	-0.256
bn130626452	7+8+9+10+11	1.728 ± 0.771	-0.064	0.320 ± 0.580	-0.064
bn130626596	3+4	28.160 ± 0.572	-18.176	10.752 ± 0.572	-6.912
bn130627372	0+1+3	35.840 ± 1.717	-17.920	8.960 ± 0.724	-2.048
bn130628531	0+1+2+9+10	21.504 ± 1.619	-0.256	3.072 ± 0.572	2.304
bn130628860	6+7+9+10+11	0.512 ± 0.143	-0.064	0.384 ± 0.091	0.000
bn130630272	4+5	17.152 ± 0.572	0.512	7.424 ± 0.362	3.840
bn130701060	2+10	20.224 ± 1.729	-0.512	3.200 ± 0.272	2.624
bn130701761	9+10+11	1.600 ± 0.143	-0.064	0.704 ± 0.143	0.320
bn130702004	4	58.881 ± 6.192	0.768	18.688 ± 1.810	3.840
bn130702951	6+7+8+9+11	16.384 ± 4.128	-4.096	7.168 ± 2.360	-1.024
bn130704560	3+4+5	6.400 ± 0.572	0.512	2.304 ± 0.362	1.536
bn130705398	3+4+5	0.128 ± 0.528	-0.064	0.064 ± 0.091	-0.064
bn130706900	9+10+11	0.128 ± 1.118	-0.064	0.064 ± 0.091	-0.064
bn130707505	9+10	76.545 ± 3.083	-2.048	38.401 ± 1.305	12.032
bn130708488	1+2+9+10	14.077 ± 3.114	0.003	4.608 ± 0.724	1.792
bn130715906	10+11	47.873 ± 1.145	5.888	19.456 ± 0.810	22.528
bn130716352	0+3+4	91.136 ± 10.801	-3.328	38.912 ± 3.114	4.352
bn130716442	0+1+2	0.768 ± 0.389	-0.448	0.256 ± 0.143	0.000



Table 6—Continued

Trigger ID	Detectors Used	$T_{90}$ (s)	$T_{90}$ start (s)	$T_{50}$ (s)	$T_{50}$ start (s)
bn130717734	6+7+8+11	55.296 ± 3.125	-3.328	40.960 ± 1.950	3.328
bn130720116	6+7+9	48.640 ± 3.874	-0.256	22.016 ± 6.676	1.792
bn130720582	9+10+11	199.172 ± 5.221	-13.568	104.450 ± 0.724	38.401
bn130722021	6+7+9	81.408 ± 5.184	-0.256	45.568 ± 2.721	4.608
bn130722990	6+7+9	2.304 ± 1.379	-0.768	0.512 ± 0.362	-0.256
bn130723092	3+4+6+7+8	8.192 ± 2.064	-0.768	1.536 ± 0.572	-0.256
bn130725527	6+7+8+9	6.656 ± 0.860	-0.384	1.472 ± 0.181	1.600
bn130727698	8+11	12.992 ± 0.871	-1.024	5.952 ± 0.231	1.472
bn130730243	0+1+3	27.904 ± 1.999	-8.704	7.680 ± 1.145	-3.584
bn130802730	1+3+4+5	0.064 ± 0.258	-0.064	0.032 ± 0.045	-0.032
bn130803419	2+9+10	7.616 ± 1.145	-3.328	1.792 ± 0.231	0.192
bn130804023	6+7+9	0.960 ± 0.091	-0.064	0.768 ± 0.091	0.064
bn130808253	4+5	0.256 ± 0.898	-0.128	0.064 ± 0.091	-0.064
bn130811186	0+1+3+5	44.801 ± 10.780	-2.304	11.776 ± 0.923	4.864
bn130813791	0+1+2+5	11.264 ± 1.145	-9.472	3.328 ± 0.362	-3.072
bn130815420	3+4+5	236.292 ± 0.810	-5.888	53.505 ± 0.923	83.713
bn130815660	3+4+5	37.889 ± 1.056	1.280	2.560 ± 0.572	31.744
bn130816074	0+3+6+7	36.864 ± 6.229	-1.024	26.624 ± 2.290	2.048
bn130818941	3+4+5	25.344 ± 3.183	-16.896	4.352 ± 0.286	2.880
bn130819394	3+4+5	82.689 ± 4.536	-1.536	36.609 ± 1.639	9.984
bn130821674	6+7+9+10+11	87.041 ± 1.145	3.584	10.752 ± 0.572	25.088
bn130828306	0+3+4	136.450 ± 0.923	13.312	67.329 ± 0.572	30.976
bn130828808	0+1+2+5	3.904 ± 0.842	0.192	1.344 ± 0.143	0.704
bn130829672	4+8	6.656 ± 1.619	-0.256	2.048 ± 0.362	1.024
bn130830864	0+1+3	83.968 ± 7.455	-2.048	40.960 ± 5.514	6.144
bn130830921	8+11	36.352 ± 1.717	-3.072	11.264 ± 1.619	-0.256
bn130831058	0+1+9+10	24.832 ± 0.810	-6.912	13.824 ± 0.923	-2.560
bn130903033	0+1+9	68.608 ± 7.241	-3.072	36.864 ± 3.238	4.096
bn130905377	1+2+9+10	21.248 ± 1.305	-0.256	6.144 ± 1.086	1.792
bn130906222	1+2+5	11.264 ± 7.209	-5.120	3.584 ± 0.724	-3.072
bn130906435	6+7+8+11	8.192 ± 2.769	-3.584	1.280 ± 0.362	-0.256
bn130907760	3+4+6+7+8	3.136 ± 2.691	-0.320	1.280 ± 2.244	-0.128
bn130908677	3+4+5	66.048 ± 30.551	-1.792	24.064 ± 4.048	5.120
bn130909817	0+1+2+5	33.792 ± 7.322	-14.848	9.984 ± 1.086	-2.560
bn130912358	7+8+11	0.512 ± 0.143	-0.064	0.256 ± 0.143	-0.064
bn130919173	6+7+8	0.960 ± 0.143	-0.064	0.128 ± 0.091	0.640
bn130919352	6+7+8+9+11	80.897 ± 3.665	0.768	39.937 ± 1.448	10.496

Table 6—Continued

Trigger ID	Detectors Used	$T_{90}$ (s)	$T_{90}$ start (s)	$T_{50}$ (s)	$T_{50}$ start (s)
bn130919985	3+4+5	$17.408 \pm 4.382$	-4.096	$7.936 \pm 1.086$	-0.512
bn130924255	8+11	$37.120 \pm 7.534$	-21.760	$9.472 \pm 0.923$	-7.936
bn130924910	0+1+6+9+10	$1.792 \pm 3.167$	-0.256	$0.768 \pm 0.572$	-0.256
bn130925164 <sup>h</sup>	0+1	$6.400 \pm 2.429$	-3.840	$3.328 \pm 1.379$	-2.816
bn130925173 <sup>h</sup>	6+7+9	$215.555 \pm 1.810$	11.008	$94.977 \pm 1.846$	42.497
bn130925546	8+11	$265.477 \pm 3.338$	-217.604	$45.569 \pm 12.841$	-17.664
bn130928537	10+11	$132.994 \pm 1.236$	0.512	$59.201 \pm 1.374$	12.416
bn130929375	0+1+3+4+5	$2.304 \pm 0.487$	-2.240	$1.152 \pm 0.231$	-1.600
bn131002288	4	$55.040 \pm 1.379$	-46.080	$30.976 \pm 39.710$	-29.696
bn131004904	9+10	$1.152 \pm 0.590$	-0.192	$0.448 \pm 0.143$	-0.064
bn131006367	10+11	$0.128 \pm 0.389$	-0.128	$0.064 \pm 0.143$	-0.128
bn131006840	2+5	$41.984 \pm 5.120$	-4.096	$17.408 \pm 2.896$	-1.024
bn131008858	10	$36.349 \pm 3.367$	0.003	$10.496 \pm 1.056$	2.560
bn131011741	7+9+10+11	$77.057 \pm 2.996$	-4.624	$17.920 \pm 0.810$	4.080
bn131014215	9+10+11	$3.200 \pm 0.091$	0.960	$1.536 \pm 0.091$	1.728
bn131014513	8+11	$30.208 \pm 4.636$	-21.248	$4.096 \pm 0.572$	-0.256
bn131018673	6+7+9	$39.936 \pm 12.331$	-1.024	$13.312 \pm 2.290$	3.072
bn131020113	1+2+5	$2.240 \pm 1.145$	-0.832	$0.768 \pm 0.345$	-0.512
bn131021352	8+10+11	$17.664 \pm 3.258$	-0.768	$10.240 \pm 0.572$	0.000
bn131024900	3+4+7+8	$45.312 \pm 5.538$	-2.304	$26.112 \pm 2.769$	2.304
bn131028076	2+5	$17.152 \pm 0.572$	2.816	$5.888 \pm 0.362$	6.912
bn131028096	7+8+11	$14.336 \pm 3.238$	-1.280	$9.472 \pm 1.280$	0.000
bn131029973	0+1+3+4+5	$104.449 \pm 7.241$	1.024	$66.561 \pm 2.896$	10.240
bn131029990	6+7+9+10+11	$50.944 \pm 5.976$	-7.936	$19.200 \pm 1.280$	0.768
bn131030653	6+7+8+11	$53.248 \pm 3.665$	-1.280	$27.136 \pm 0.810$	1.792
bn131030791	0+1+2+3+5	$27.392 \pm 5.431$	-2.560	$8.448 \pm 1.145$	1.024
bn131031482	6+7+9+11	$7.424 \pm 0.604$	-0.256	$4.352 \pm 0.231$	1.024
bn131102622	6+7+9	$62.976 \pm 7.886$	0.000	$29.952 \pm 3.238$	4.864
bn131105087	6+7+8	$112.642 \pm 0.462$	2.496	$73.985 \pm 0.320$	33.280
bn131108024	7+8+11	$14.592 \pm 3.999$	-3.584	$5.376 \pm 0.572$	0.512
bn131108862	0+3+6+7	$18.176 \pm 0.572$	0.320	$8.192 \pm 0.572$	2.368
bn131110373	9+10+11	$27.328 \pm 1.294$	-2.304	$12.800 \pm 0.746$	3.776
bn131113483	1+2+5	$60.545 \pm 1.417$	3.392	$20.352 \pm 0.320$	16.832
bn131117766	0+1+3+4+5	$93.954 \pm 4.419$	-1.792	$32.513 \pm 1.056$	14.592
bn131118958	2+5	$85.249 \pm 4.382$	5.632	$44.289 \pm 0.923$	18.432
bn131119781	6+7+8+11	$34.816 \pm 0.810$	-2.560	$20.224 \pm 4.615$	0.256
bn131122490	3+4+5	$23.040 \pm 0.810$	1.536	$8.704 \pm 0.362$	10.240

Table 6—Continued

Trigger ID	Detectors Used	$T_{90}$ (s)	$T_{90}$ start (s)	$T_{50}$ (s)	$T_{50}$ start (s)
bn131123543	9+10+11	$3.136 \pm 0.716$	0.000	$1.088 \pm 0.590$	0.384
bn131125689	10+11	$3.008 \pm 2.159$	-0.576	$0.320 \pm 0.231$	-0.192
bn131126163	2+5	$0.128 \pm 0.353$	-0.016	$0.048 \pm 0.045$	0.000
bn131127480	6+7+8+9+11	$59.648 \pm 8.964$	0.768	$24.320 \pm 1.379$	7.680
bn131127592	1+2+5	$18.176 \pm 0.724$	1.792	$11.520 \pm 0.572$	4.352
bn131127696	0+1+2+3+5	$15.104 \pm 5.049$	-1.792	$3.840 \pm 0.923$	-0.256
bn131128629	9+10	$1.984 \pm 0.543$	-0.960	$0.832 \pm 0.272$	-0.576
bn131202633	1+2+5	$19.968 \pm 7.748$	-4.352	$8.704 \pm 2.187$	-1.792
bn131202906	3+4+8	$86.018 \pm 2.111$	1.280	$30.465 \pm 1.145$	10.752
bn131204937	6+7+9	$29.952 \pm 1.056$	-0.512	$17.408 \pm 0.572$	4.096
bn131209547	6+7+9	$13.568 \pm 1.145$	2.816	$6.400 \pm 0.362$	6.144
bn131209963	2+10	$4.096 \pm 3.125$	-0.512	$1.280 \pm 0.724$	-0.256
bn131211510	0+1+3	$44.800 \pm 4.971$	-12.544	$11.008 \pm 0.923$	-4.608
bn131212814	6+7+9	$7.424 \pm 4.720$	-3.584	$3.072 \pm 2.064$	-1.536
bn131214705	0+1+2	$80.065 \pm 0.871$	2.048	$37.056 \pm 1.350$	31.296
bn131215298	10+11	$23.040 \pm 2.360$	2.560	$10.752 \pm 0.572$	4.352
bn131216081	6+7+9+10+11	$19.262 \pm 3.598$	0.003	$3.072 \pm 0.572$	1.088
bn131217108	10+11	$0.768 \pm 1.924$	-0.064	$0.384 \pm 0.181$	0.064
bn131217183	0+1+2	$9.216 \pm 1.145$	-2.304	$4.608 \pm 0.572$	0.768
bn131217506	0+1+2	$9.216 \pm 1.145$	-2.304	$4.608 \pm 0.572$	0.768
bn131229277	9+10+11	$12.992 \pm 0.231$	2.144	$6.592 \pm 0.202$	7.328
bn131230529	4+8	$3.072 \pm 1.056$	-2.560	$1.536 \pm 0.724$	-2.304
bn131230808	6+7+8+9+11	$49.152 \pm 4.352$	-10.752	$14.848 \pm 1.086$	-1.536
bn131231198	0+3+4	$31.232 \pm 0.572$	13.312	$9.728 \pm 0.362$	21.504
bn140102887	6+7+9+11	$3.648 \pm 0.091$	0.448	$1.920 \pm 0.091$	1.024
bn140104731	6+7+9+11	$188.417 \pm 1.448$	9.216	$141.313 \pm 2.290$	36.864
bn140105065	9+10+11	$1.088 \pm 0.466$	-0.384	$0.384 \pm 0.091$	0.000
bn140105748	6+9+10	$0.576 \pm 0.716$	-0.192	$0.384 \pm 0.231$	-0.064
bn140106345	2+5	$33.024 \pm 7.241$	-0.512	$12.032 \pm 1.864$	2.048
bn140108721	1+2+9+10	$91.393 \pm 2.360$	1.536	$79.105 \pm 0.572$	6.912
bn140109771	10+11	$0.704 \pm 0.773$	-0.960	$0.384 \pm 0.528$	-0.704
bn140109877	0+3+6+7	$3.328 \pm 2.560$	-1.024	$0.768 \pm 1.810$	-0.256
bn140110263	6+7+8+9	$9.472 \pm 1.619$	-0.256	$3.584 \pm 0.724$	1.024
bn140110411	0+1+3	$0.768 \pm 0.345$	-0.768	$0.320 \pm 0.091$	-0.512
bn140110814	8	$81.152 \pm 6.582$	-17.408	$47.104 \pm 1.619$	-0.768
bn140112060	0+1+2+5	$12.032 \pm 5.278$	-3.328	$6.656 \pm 0.362$	-0.768
bn140113183	7+8+9+11	$68.864 \pm 2.985$	-5.888	$33.792 \pm 3.665$	-0.512

Table 6—Continued

Trigger ID	Detectors Used	$T_{90}$ (s)	$T_{90}$ start (s)	$T_{50}$ (s)	$T_{50}$ start (s)
bn140113624	1+2+5	4.608 ± 2.360	-0.768	2.048 ± 0.810	-0.256
bn140115863	3+4+8	14.909 ± 1.072	0.003	6.144 ± 0.572	3.904
bn140115899	9+10	10.496 ± 1.950	-1.792	3.840 ± 0.572	0.512
bn140118064	1+2+5	90.112 ± 2.202	-71.168	56.064 ± 2.429	-51.712
bn140122597	7+8	3.584 ± 1.864	-0.256	1.536 ± 0.724	0.256
bn140124527	0+1+3	121.538 ± 5.838	-12.672	62.977 ± 1.846	6.208
bn140126815	6+7+8	75.776 ± 2.290	-58.368	24.576 ± 2.896	-15.360
bn140129499	8+11	0.128 ± 0.707	-0.064	0.128 ± 0.091	-0.064
bn140204547	6+7+9	71.168 ± 8.798	-1.536	33.024 ± 1.864	4.096
bn140206275	0+1+2+3+5	146.690 ± 4.419	7.488	24.576 ± 0.810	13.888
bn140206304	10+11	27.264 ± 1.243	0.512	5.120 ± 0.272	3.456
bn140209313	9+10	1.408 ± 0.264	1.344	0.320 ± 0.091	1.536
bn140211091	6+7+9	3.456 ± 0.724	-0.896	1.024 ± 0.181	-0.384
bn140213807	0+1+2	18.624 ± 0.716	0.768	5.056 ± 0.091	2.304
bn140216331	9+10+11	2.432 ± 0.590	-1.728	1.216 ± 1.223	-0.832
bn140217043	6+7+9	27.136 ± 14.082	-0.256	13.824 ± 0.923	1.536
bn140218427	3+4+5	53.505 ± 5.684	-1.024	31.489 ± 1.950	4.864
bn140219319	0+1+3	6.080 ± 0.464	-0.128	3.072 ± 0.362	1.856
bn140219824	7+8+9+10+11	77.056 ± 2.996	-2.560	46.848 ± 1.639	5.888
bn140223495	6+7+8+11	17.408 ± 2.064	-0.768	4.352 ± 0.362	0.768
bn140224382	2+5	2.304 ± 2.111	-0.512	1.024 ± 1.056	0.000
bn140224788	3+4+6+7+8	17.152 ± 1.846	-1.792	6.144 ± 1.379	1.024
bn140227738	2+10	17.152 ± 9.073	-16.384	5.888 ± 4.971	-7.680
bn140302342	0+1+3	67.584 ± 5.655	0.256	25.600 ± 0.724	6.656
bn140304557	0+1+3+4+5	31.232 ± 8.719	-5.376	10.240 ± 0.572	0.000
bn140304849	3+4+5	232.708 ± 1.145	1.024	182.531 ± 1.717	21.760
bn140306146	0+1+3+4+5	51.713 ± 0.810	1.088	24.576 ± 0.572	6.208
bn140308710	1+2+5	12.032 ± 1.846	0.768	3.584 ± 0.572	2.048
bn140311453	1+2+5	14.912 ± 1.619	-1.024	7.040 ± 0.373	0.768
bn140311618	9+10	14.336 ± 5.684	-3.072	3.072 ± 0.724	0.256
bn140311885	4+8	72.193 ± 8.764	-4.352	27.649 ± 1.086	5.632
bn140319964	1+2+9+10	50.369 ± 1.448	-1.408	13.056 ± 0.362	5.440
bn140320092	0+3+6+7	2.304 ± 1.527	-1.216	1.024 ± 0.231	-0.832
bn140322424	3+4+7+8	10.496 ± 2.111	-2.048	4.096 ± 0.572	0.256
bn140323433	0+1+2+9	111.426 ± 3.027	5.056	64.705 ± 0.810	24.960
bn140327065	0+1+3	11.520 ± 7.286	-4.864	3.840 ± 0.923	0.000
bn140328560	0+1+3+5	4.160 ± 0.653	-1.088	2.240 ± 0.143	-0.640

Table 6—Continued

Trigger ID	Detectors Used	$T_{90}$ (s)	$T_{90}$ start (s)	$T_{50}$ (s)	$T_{50}$ start (s)
bn140329272	0+1+3+5	$0.064 \pm 0.295$	-0.032	$0.032 \pm 0.045$	-0.032
bn140329295	8+11	$21.504 \pm 0.810$	5.648	$2.816 \pm 0.362$	21.520
bn140330180	0+1+3	$34.049 \pm 10.509$	0.256	$9.984 \pm 1.305$	1.792
bn140402007	0+1+3	$0.320 \pm 0.630$	-0.128	$0.128 \pm 0.143$	-0.064
bn140404030	6+7+9	$84.992 \pm 5.910$	-72.704	$70.656 \pm 1.864$	-67.840
bn140404171	0+1+2+3	$26.624 \pm 0.326$	0.192	$12.224 \pm 0.202$	5.056
bn140404900	0+1+3+4	$22.784 \pm 1.864$	-1.024	$8.448 \pm 0.572$	3.072
bn140405033	0+1+3	$39.936 \pm 3.874$	-0.512	$12.288 \pm 1.379$	1.536
bn140406120	1+2+5	$109.312 \pm 3.415$	-32.000	$59.136 \pm 4.810$	-4.096
bn140406144	0+1+2	$37.120 \pm 4.291$	-4.096	$24.064 \pm 5.431$	1.024
bn140408553	3+4+7+8	$7.680 \pm 3.367$	-1.024	$3.072 \pm 1.864$	0.000
bn140414693	0+1+3+4+5	$25.600 \pm 2.202$	-11.776	$7.424 \pm 0.724$	1.280
bn140416060	2	$31.744 \pm 1.280$	-2.784	$16.576 \pm 0.143$	6.816
bn140422194	9+10+11	$361.472 \pm 9.882$	-4.352	$311.296 \pm 3.556$	8.448
bn140423356	6+7+9+10+11	$95.233 \pm 11.585$	-66.561	$46.081 \pm 5.793$	-37.889
bn140426515	7+8+11	$37.568 \pm 3.535$	-4.736	$14.784 \pm 0.429$	-1.024
bn140427702	8	$13.312 \pm 7.131$	-3.840	$4.608 \pm 5.684$	-3.328
bn140428906	2+5	$0.320 \pm 0.286$	-0.256	$0.064 \pm 0.091$	-0.064
bn140429975	0+1+3	$9.216 \pm 1.639$	-5.120	$3.328 \pm 0.724$	-3.072
bn140430716	7+8	$26.368 \pm 5.615$	-12.800	$4.096 \pm 0.724$	0.768
bn140501139	7+8+11	$0.256 \pm 0.630$	-0.128	$0.064 \pm 0.091$	-0.064
bn140501497	2+5	$22.144 \pm 5.186$	-0.128	$7.552 \pm 0.181$	1.856
bn140502354	0+1+2+5	$20.096 \pm 0.916$	-1.536	$6.336 \pm 0.590$	0.512
bn140506880	2+5	$64.128 \pm 2.005$	-3.968	$6.016 \pm 5.440$	0.000
bn140508128	10	$44.288 \pm 0.231$	2.816	$21.184 \pm 0.091$	5.056
bn140508179	8	$19.456 \pm 2.290$	-1.024	$9.216 \pm 2.896$	3.072
bn140508629	0+3+4+6+7+8	$50.433 \pm 8.464$	-0.256	$24.320 \pm 3.874$	4.864
bn140511095	0+1+3+4+5	$1.408 \pm 0.889$	-0.064	$0.256 \pm 0.181$	-0.064
bn140511995	1+2+5	$59.136 \pm 1.379$	-1.024	$13.824 \pm 1.145$	20.224
bn140512814	0+1+2+3+5	$147.970 \pm 2.360$	2.048	$80.129 \pm 6.931$	51.969
bn140513724	6+7+9+10+11	$17.152 \pm 2.111$	-0.512	$5.120 \pm 0.810$	1.792
bn140516700	0+1+2+9+10	$38.144 \pm 1.145$	-12.544	$19.712 \pm 0.923$	-1.536
bn140516765	3+4+5	$22.016 \pm 5.425$	-2.304	$6.912 \pm 1.086$	3.840
bn140517813	3+4+7+8	$18.941 \pm 1.618$	0.003	$6.656 \pm 0.572$	2.048
bn140518709	8+11	$0.704 \pm 0.466$	-0.640	$0.256 \pm 0.181$	-0.448
bn140519043	9+10+11	$47.616 \pm 2.721$	-22.272	$13.824 \pm 0.923$	-6.144
bn140521184	6+7+9+10+11	$46.592 \pm 3.328$	-5.120	$24.832 \pm 1.810$	2.048

Table 6—Continued

Trigger ID	Detectors Used	$T_{90}$ (s)	$T_{90}$ start (s)	$T_{50}$ (s)	$T_{50}$ start (s)
bn140521732	6+7+8	$11.550 \pm 3.595$	0.003	$5.120 \pm 1.145$	0.544
bn140523129	3+4+5	$19.200 \pm 0.362$	0.576	$9.216 \pm 0.362$	4.416
bn140526449	3+4+5	$79.104 \pm 1.379$	0.512	$40.448 \pm 0.724$	6.400
bn140526571	0+1+3	$0.064 \pm 0.834$	-0.064	$0.064 \pm 0.091$	-0.064
bn140528837	6+9+10	$13.568 \pm 0.572$	1.024	$7.936 \pm 0.362$	3.840
bn140603476	6+7+8+11	$138.242 \pm 13.469$	-51.201	$61.441 \pm 2.896$	4.096
bn140605377	0+1+3+5+6	$0.512 \pm 0.320$	-0.384	$0.128 \pm 0.091$	-0.064
bn140606133	3+4+6+7+8	$22.784 \pm 2.064$	0.256	$4.352 \pm 0.572$	1.024
bn140608153	0	$71.681 \pm 7.371$	-4.608	$26.880 \pm 2.919$	12.800
bn140608713	8+11	$6.400 \pm 3.874$	-0.256	$1.280 \pm 0.362$	0.256
bn140610487	4+7+8	$0.960 \pm 0.716$	-0.832	$0.192 \pm 0.466$	-0.256
bn140610548	3+4+5	$36.865 \pm 1.143$	0.256	$9.472 \pm 0.724$	11.008
bn140610689	10+11	$134.144 \pm 7.455$	-2.048	$57.344 \pm 2.896$	14.336
bn140612294	6+7+8+11	$38.913 \pm 8.483$	-0.256	$11.008 \pm 1.864$	5.376
bn140616165	0+1+2+3	$0.512 \pm 0.821$	-0.032	$0.221 \pm 0.202$	0.003
bn140619475	6+9+10	$2.816 \pm 0.810$	-0.256	$1.024 \pm 0.724$	0.000
bn140619490	10+11	$0.448 \pm 0.516$	-0.192	$0.064 \pm 0.272$	-0.064
bn140620219	8+11	$45.825 \pm 12.130$	-13.824	$7.936 \pm 0.724$	3.584
bn140621827	1+2+5	$6.400 \pm 0.810$	0.000	$5.376 \pm 0.572$	0.256
bn140623224	0+1+6+9	$111.104 \pm 3.999$	-45.824	$57.088 \pm 5.526$	-21.760
bn140624423	3+4+6+7+8	$0.096 \pm 0.093$	-0.080	$0.016 \pm 0.045$	0.000
bn140626843	4+5	$1.792 \pm 1.056$	-0.256	$0.768 \pm 0.362$	0.000
bn140627401	3+4+5	$7.424 \pm 2.611$	-3.584	$3.584 \pm 1.619$	-2.304
bn140628626	9+10+11	$12.544 \pm 3.665$	-11.776	$6.400 \pm 1.280$	-8.192
bn140628704	8+11	$75.520 \pm 3.849$	-2.304	$68.096 \pm 1.846$	0.512
bn140630505	0+1+3	$63.745 \pm 2.769$	-1.280	$33.025 \pm 1.493$	13.312
bn140701567	6+7+8+11	$25.088 \pm 3.328$	-7.680	$8.704 \pm 1.056$	-0.512
bn140701833	7+8+10+11	$6.912 \pm 0.923$	-1.792	$2.048 \pm 0.572$	2.816
bn140703026	0+1+3	$83.969 \pm 2.996$	0.768	$23.808 \pm 0.923$	8.704
bn140705539	0+1+2+5	$26.880 \pm 1.557$	-3.072	$12.288 \pm 1.619$	0.256
bn140706815	0+1+3	$43.776 \pm 2.721$	-13.824	$23.040 \pm 12.331$	-3.584
bn140709051	8+10+11	$69.633 \pm 21.549$	-25.088	$20.480 \pm 1.846$	-5.632
bn140709637	0+1+2+3+5	$156.416 \pm 7.940$	-131.328	$94.208 \pm 2.064$	-111.360
bn140710537	9+10	$0.384 \pm 0.091$	-0.064	$0.192 \pm 0.091$	0.000
bn140710901	9+10	$11.520 \pm 4.636$	-6.656	$5.632 \pm 0.923$	-3.584
bn140711691	2+10	$80.896 \pm 21.601$	-3.072	$32.768 \pm 4.344$	3.072

<sup>a</sup>Data problems precluded duration analysis.

<sup>b</sup>Used TTE binned at 32 ms.

<sup>c</sup>Partial earth occultation is likely; durations are lower limits.

<sup>d</sup>Possible precursor at  $\sim T_0 - 120$  s.

<sup>e</sup>Data cut off due to SAA entry while burst in progress; durations are lower limits.

<sup>f</sup>SAA entry at  $T_0 + 83$  s; durations are lower limits.

<sup>g</sup>Used TTE binned at 16 ms.

<sup>h</sup>This GRB triggered GBM twice.

<sup>i</sup>Too weak to measure durations; visual duration is  $\sim 0.025$  s.

<sup>j</sup>Possible contamination due to emergence of Crab & A0535+26 from Earth occultation.

<sup>k</sup>Solar activity starting at  $T_0 + 200$  s. Post burst background interval was selected before.

<sup>l</sup>Data cut off due to SAA entry while burst in progress; it is not possible to determine durations.

<sup>m</sup>Spacecraft in sun pointing mode, detector threshold raised, location of burst nearly in -z direction. The response, peak fluxes and fluence in the 10 – 100 keV energy range have large errors. Fluence, peak fluxes and durations in BATSE energy range (50 -300 keV) are reliable.

<sup>n</sup>Localization of precursor at  $T_0 - 120$  s is consistent with burst location and was included in the duration analysis.

<sup>o</sup>SAA entry at  $T_0 + 100$  s; durations are lower limits.

<sup>p</sup>TTE/CTTE data not available, 64 ms peak fluxes may not be correct.

Table 7. GRB Fluence & Peak Flux (10–1000 keV)

Trigger ID	Fluence (erg cm <sup>-2</sup> )	PF64 (ph cm <sup>-2</sup> s <sup>-1</sup> )	PF256 (ph cm <sup>-2</sup> s <sup>-1</sup> )	PF1024 (ph cm <sup>-2</sup> s <sup>-1</sup> )
bn080714086	6.76E-07 ± 4.07E-08	3.82 ± 1.06	2.24 ± 0.36	1.54 ± 0.18
bn080714425	1.81E-06 ± 2.09E-08	4.00 ± 1.45	2.96 ± 0.46	2.02 ± 0.21
bn080714745	6.33E-06 ± 1.41E-07	8.89 ± 1.61	7.78 ± 0.83	6.93 ± 0.39
bn080715950	5.04E-06 ± 7.95E-08	19.42 ± 0.95	13.58 ± 0.45	9.91 ± 0.22
bn080717543	4.46E-06 ± 7.68E-08	6.24 ± 1.08	3.43 ± 0.49	2.89 ± 0.23
bn080719529	7.75E-07 ± 2.93E-08	2.77 ± 0.83	1.77 ± 0.29	1.12 ± 0.16
bn080720316	7.75E-07 ± 2.93E-08	2.77 ± 0.83	1.77 ± 0.29	1.12 ± 0.16
bn080723557	7.22E-05 ± 2.54E-07	40.97 ± 2.24	38.24 ± 1.09	30.45 ± 0.49
bn080723913	1.34E-07 ± 1.36E-08	5.26 ± 0.70	4.13 ± 0.32	1.41 ± 0.13
bn080723985	3.08E-05 ± 2.07E-07	13.45 ± 1.24	11.36 ± 0.60	10.12 ± 0.28
bn080724401	1.57E-05 ± 5.04E-08	22.73 ± 1.31	18.98 ± 0.62	12.20 ± 0.29
bn080725435	7.99E-06 ± 4.42E-08	5.38 ± 0.77	4.28 ± 0.38	3.36 ± 0.17
bn080725541	4.92E-07 ± 4.39E-08	6.27 ± 0.78	5.13 ± 0.36	1.69 ± 0.13
bn080727964	1.33E-05 ± 7.91E-08	6.44 ± 0.92	4.17 ± 0.42	3.53 ± 0.18
bn080730520	4.87E-06 ± 9.89E-08	7.83 ± 1.03	6.34 ± 0.46	5.60 ± 0.22
bn080730786	6.35E-06 ± 8.31E-08	16.89 ± 0.94	16.44 ± 0.45	14.61 ± 0.23
bn080802386	3.98E-07 ± 6.85E-09	10.41 ± 1.12	7.06 ± 0.35	2.95 ± 0.17
bn080803772	4.39E-06 ± 7.43E-08	3.37 ± 0.67	2.26 ± 0.26	1.78 ± 0.11
bn080804456	8.00E-06 ± 8.65E-08	3.96 ± 0.68	2.80 ± 0.34	1.94 ± 0.14
bn080804972	9.13E-06 ± 1.06E-07	5.81 ± 0.76	4.40 ± 0.36	3.85 ± 0.16
bn080805496	1.75E-06 ± 4.78E-08	4.77 ± 1.07	3.92 ± 0.53	3.05 ± 0.23
bn080805584	4.38E-06 ± 6.45E-08	4.55 ± 1.32	3.03 ± 0.48	1.77 ± 0.17
bn080806584	4.31E-07 ± 2.50E-08	4.33 ± 0.83	2.84 ± 0.32	2.39 ± 0.16
bn080806896	1.33E-05 ± 1.94E-07	11.20 ± 0.94	9.32 ± 0.43	8.18 ± 0.21
bn080807993	7.30E-06 ± 9.01E-08	19.42 ± 0.82	15.24 ± 0.39	8.88 ± 0.18
bn080808451	7.10E-07 ± 3.96E-08	2.70 ± 0.69	2.33 ± 0.30	1.75 ± 0.14
bn080808565	3.97E-06 ± 4.22E-08	7.79 ± 0.87	6.81 ± 0.50	5.98 ± 0.22
bn080808772	7.07E-06 ± 7.87E-08	4.02 ± 0.72	3.12 ± 0.26	1.90 ± 0.13
bn080809808	4.14E-06 ± 5.50E-08	9.19 ± 1.42	5.29 ± 0.62	3.76 ± 0.27
bn080810549	1.08E-05 ± 4.81E-08	6.76 ± 1.26	4.85 ± 0.59	3.57 ± 0.21
bn080812889	2.45E-06 ± 4.18E-08	5.20 ± 0.95	2.90 ± 0.44	1.91 ± 0.17
bn080815917	4.69E-07 ± 2.73E-08	6.26 ± 0.97	4.58 ± 0.43	3.26 ± 0.21



Table 7—Continued

Trigger ID	Fluence (erg cm <sup>-2</sup> )	PF64 (ph cm <sup>-2</sup> s <sup>-1</sup> )	PF256 (ph cm <sup>-2</sup> s <sup>-1</sup> )	PF1024 (ph cm <sup>-2</sup> s <sup>-1</sup> )
bn080816503	1.33E-05 ± 8.25E-08	9.90 ± 0.76	8.91 ± 0.37	7.44 ± 0.18
bn080816989	3.30E-06 ± 9.24E-08	9.27 ± 0.62	7.19 ± 0.29	5.21 ± 0.13
bn080817161	5.32E-05 ± 7.31E-08	17.44 ± 1.04	14.65 ± 0.52	13.67 ± 0.24
bn080817720	1.82E-06 ± 4.14E-08	7.93 ± 0.92	5.24 ± 0.47	3.59 ± 0.21
bn080818579	3.80E-06 ± 5.83E-08	7.34 ± 0.85	6.32 ± 0.40	4.58 ± 0.19
bn080818945	1.74E-06 ± 2.44E-08	6.22 ± 0.89	5.08 ± 0.33	4.01 ± 0.19
bn080821332	3.59E-06 ± 1.76E-08	11.42 ± 1.11	10.72 ± 0.59	9.64 ± 0.27
bn080823363	5.55E-06 ± 3.57E-08	6.72 ± 0.90	5.60 ± 0.48	4.62 ± 0.21
bn080824909	2.73E-06 ± 5.91E-08	12.87 ± 0.98	11.20 ± 0.52	7.26 ± 0.23
bn080825593	3.42E-05 ± 9.70E-08	31.30 ± 1.12	29.43 ± 0.60	25.30 ± 0.27
bn080828189	4.11E-07 ± 1.68E-08	5.62 ± 0.98	2.84 ± 0.35	1.40 ± 0.15
bn080829790	2.52E-06 ± 2.18E-08	7.05 ± 1.29	5.33 ± 0.48	4.48 ± 0.24
bn080830368	7.00E-06 ± 1.10E-07	6.49 ± 0.80	5.33 ± 0.37	4.67 ± 0.18
bn080831053	5.62E-08 ± 1.74E-08	4.66 ± 1.10	1.12 ± 0.46	0.33 ± 0.20
bn080831921	8.47E-06 ± 4.02E-08	5.54 ± 1.12	3.96 ± 0.50	2.85 ± 0.21
bn080904886	5.24E-06 ± 7.07E-08	19.16 ± 1.23	17.39 ± 0.58	15.84 ± 0.27
bn080905499	8.50E-07 ± 4.62E-08	6.32 ± 0.68	4.70 ± 0.31	2.34 ± 0.14
bn080905570	4.09E-06 ± 5.63E-08	8.14 ± 1.33	6.95 ± 0.60	5.36 ± 0.27
bn080905705	2.91E-06 ± 3.63E-08	4.08 ± 1.10	3.30 ± 0.40	2.32 ± 0.23
bn080906212	5.87E-06 ± 1.39E-07	24.84 ± 1.45	22.88 ± 0.69	20.29 ± 0.33
bn080912360	2.13E-06 ± 2.97E-08	4.82 ± 0.70	3.01 ± 0.28	2.48 ± 0.15
bn080913735	3.54E-06 ± 8.67E-08	5.99 ± 0.88	4.88 ± 0.40	3.40 ± 0.18
bn080916009	6.03E-05 ± 7.00E-08	16.40 ± 1.65	15.09 ± 0.64	13.66 ± 0.29
bn080916406	7.81E-06 ± 8.18E-08	7.10 ± 1.35	5.56 ± 0.32	4.47 ± 0.29
bn080919790	4.59E-08 ± 5.06E-09	4.56 ± 1.14	2.51 ± 0.47	0.68 ± 0.18
bn080920268	1.87E-06 ± 6.34E-08	3.49 ± 0.78	1.61 ± 0.26	1.08 ± 0.11
bn080924766	4.73E-06 ± 7.87E-08	6.74 ± 0.84	5.79 ± 0.41	4.76 ± 0.19
bn080925775	1.85E-05 ± 4.00E-08	17.21 ± 1.00	15.80 ± 0.50	15.40 ± 0.24
bn080927480	2.96E-06 ± 9.64E-08	4.99 ± 1.33	3.38 ± 0.49	2.63 ± 0.25
bn080928628	1.16E-06 ± 3.76E-08	6.02 ± 1.27	5.10 ± 0.51	3.19 ± 0.23
bn081003644	9.00E-06 ± 1.08E-07	5.21 ± 0.96	4.29 ± 0.46	3.07 ± 0.22
bn081006604	8.33E-07 ± 1.87E-08	4.69 ± 1.20	3.28 ± 0.61	1.46 ± 0.25

Table 7—Continued

Trigger ID	Fluence (erg cm <sup>-2</sup> )	PF64 (ph cm <sup>-2</sup> s <sup>-1</sup> )	PF256 (ph cm <sup>-2</sup> s <sup>-1</sup> )	PF1024 (ph cm <sup>-2</sup> s <sup>-1</sup> )
bn081006872	3.87E-07 ± 2.02E-08	3.93 ± 1.20	3.01 ± 0.57	1.53 ± 0.25
bn081008832	1.03E-05 ± 1.50E-07	5.33 ± 0.79	3.45 ± 0.34	2.66 ± 0.16
bn081009140	3.83E-05 ± 4.53E-08	129.89 ± 2.49	125.99 ± 1.24	117.01 ± 0.62
bn081009690	1.08E-05 ± 7.57E-08	9.35 ± 1.09	6.44 ± 0.48	5.98 ± 0.23
bn081012045	2.29E-07 ± 4.36E-08	6.27 ± 1.23	4.69 ± 0.55	3.33 ± 0.26
bn081012549	4.51E-06 ± 1.12E-07	4.76 ± 0.80	2.62 ± 0.31	2.05 ± 0.13
bn081017474	1.39E-06 ± 2.10E-08	4.63 ± 1.24	4.00 ± 0.57	2.75 ± 0.25
bn081021398	5.74E-06 ± 7.90E-08	5.88 ± 0.95	4.07 ± 0.60	3.53 ± 0.23
bn081022364	1.16E-06 ± 2.90E-08	4.71 ± 1.21	2.83 ± 0.49	2.16 ± 0.23
bn081024245	1.99E-07 ± 1.69E-08	6.80 ± 1.38	4.07 ± 0.66	1.85 ± 0.29
bn081024851	6.27E-06 ± 7.17E-08	4.58 ± 0.89	3.12 ± 0.28	2.37 ± 0.18
bn081024891	3.55E-07 ± 2.86E-08	5.36 ± 0.56	3.45 ± 0.28	2.14 ± 0.14
bn081025349	6.32E-06 ± 1.18E-07	5.10 ± 0.69	4.78 ± 0.36	4.09 ± 0.17
bn081028538	2.27E-06 ± 2.59E-08	8.12 ± 0.94	7.55 ± 0.45	6.34 ± 0.22
bn081101167	1.39E-06 ± 6.23E-08	4.16 ± 1.44	2.39 ± 0.58	1.36 ± 0.24
bn081101491	1.68E-07 ± 3.64E-09	7.97 ± 0.80	4.48 ± 0.37	1.06 ± 0.15
bn081101532	1.51E-05 ± 3.46E-07	12.96 ± 1.29	11.30 ± 0.64	9.75 ± 0.31
bn081102365	1.09E-06 ± 3.23E-08	5.06 ± 0.57	3.87 ± 0.29	2.64 ± 0.14
bn081102739	3.76E-06 ± 9.19E-08	4.47 ± 0.84	3.64 ± 0.34	2.71 ± 0.16
bn081105614	2.75E-07 ± 1.84E-08	7.95 ± 1.02	2.91 ± 0.46	0.81 ± 0.18
bn081107321	1.22E-06 ± 3.19E-08	13.54 ± 0.85	11.98 ± 0.40	9.96 ± 0.19
bn081109293	6.55E-06 ± 5.87E-08	4.37 ± 1.59	3.24 ± 0.20	2.64 ± 0.16
bn081110601	5.41E-06 ± 1.01E-07	21.19 ± 1.19	20.58 ± 0.58	15.38 ± 0.27
bn081113230	3.30E-07 ± 4.30E-08	11.14 ± 0.99	8.14 ± 0.47	3.01 ± 0.18
bn081115891	8.56E-08 ± 1.31E-08	3.75 ± 0.76	2.18 ± 0.38	1.02 ± 0.18
bn081118876	4.94E-06 ± 4.43E-08	9.58 ± 0.88	8.02 ± 0.42	7.29 ± 0.19
bn081119184	1.30E-07 ± 1.76E-08	4.80 ± 1.25	3.29 ± 0.56	1.40 ± 0.23
bn081120618	1.94E-06 ± 2.42E-08	6.27 ± 1.31	5.16 ± 0.61	4.25 ± 0.28
bn081121858	1.53E-05 ± 2.20E-07	12.81 ± 1.66	10.37 ± 0.75	7.72 ± 0.38
bn081122520	7.54E-06 ± 7.85E-08	21.51 ± 1.11	17.92 ± 0.52	12.19 ± 0.24
bn081122614	1.39E-07 ± 7.95E-09	9.21 ± 1.43	7.01 ± 0.52	1.70 ± 0.20
bn081124060	8.59E-06 ± 7.98E-08	21.66 ± 1.20	21.34 ± 0.41	19.78 ± 0.25

Table 7—Continued

Trigger ID	Fluence (erg cm <sup>-2</sup> )	PF64 (ph cm <sup>-2</sup> s <sup>-1</sup> )	PF256 (ph cm <sup>-2</sup> s <sup>-1</sup> )	PF1024 (ph cm <sup>-2</sup> s <sup>-1</sup> )
bn081125496	1.85E-05 ± 1.33E-07	27.56 ± 1.91	26.38 ± 0.91	23.25 ± 0.43
bn081126899	1.14E-05 ± 6.66E-08	7.77 ± 0.81	7.19 ± 0.39	6.50 ± 0.19
bn081129161	1.62E-05 ± 1.47E-07	19.58 ± 1.38	17.24 ± 0.66	14.30 ± 0.31
bn081130212	2.64E-07 ± 2.05E-08	11.28 ± 1.75	5.13 ± 0.57	2.17 ± 0.23
bn081130629	3.22E-06 ± 5.55E-08	6.17 ± 0.85	5.15 ± 0.41	4.37 ± 0.19
bn081204004	1.02E-06 ± 5.39E-08	5.00 ± 0.66	3.82 ± 0.30	3.01 ± 0.15
bn081204517	3.11E-07 ± 1.74E-08	10.91 ± 0.83	6.66 ± 0.36	1.97 ± 0.13
bn081206275	3.86E-06 ± 6.49E-08	4.28 ± 0.96	3.12 ± 0.35	2.15 ± 0.17
bn081206604	5.00E-07 ± 3.66E-08	3.02 ± 1.06	2.24 ± 0.34	1.90 ± 0.21
bn081206987	1.13E-06 ± 3.49E-08	2.91 ± 0.93	2.32 ± 0.46	1.66 ± 0.19
bn081207680	4.86E-05 ± 9.84E-08	6.22 ± 0.79	5.16 ± 0.37	4.43 ± 0.17
bn081209981	1.47E-06 ± 1.49E-08	25.43 ± 1.21	14.91 ± 0.54	4.28 ± 0.22
bn081213173	1.23E-07 ± 1.87E-08	4.92 ± 0.94	2.98 ± 0.38	0.99 ± 0.16
bn081215784	5.47E-05 ± 5.87E-08	148.47 ± 2.13	122.54 ± 1.00	64.91 ± 0.39
bn081215880	1.78E-06 ± 3.58E-08	7.09 ± 2.33	5.58 ± 0.87	4.56 ± 0.42
bn081216531	2.99E-06 ± 7.74E-08	38.22 ± 1.27	26.99 ± 0.57	8.92 ± 0.21
bn081217983	9.62E-06 ± 1.40E-07	6.90 ± 0.71	6.07 ± 0.34	5.47 ± 0.16
bn081221681	3.00E-05 ± 8.69E-08	27.48 ± 1.36	26.87 ± 0.67	25.43 ± 0.33
bn081222204	1.19E-05 ± 9.57E-08	14.50 ± 1.00	13.75 ± 0.48	12.76 ± 0.23
bn081223419	8.34E-07 ± 3.86E-08	14.73 ± 0.86	12.81 ± 0.42	6.05 ± 0.18
bn081224887	3.76E-05 ± 1.69E-07	26.67 ± 1.15	24.65 ± 0.57	23.85 ± 0.28
bn081225257	6.75E-06 ± 8.95E-08	3.73 ± 0.68	2.73 ± 0.31	2.15 ± 0.15
bn081226044	4.30E-07 ± 2.32E-08	6.23 ± 1.37	5.32 ± 0.72	2.32 ± 0.28
bn081226156	3.95E-06 ± 1.95E-08	6.41 ± 0.86	4.84 ± 0.40	3.74 ± 0.19
bn081226509	3.44E-07 ± 2.71E-08	8.53 ± 0.78	5.60 ± 0.33	1.69 ± 0.13
bn081229187	1.06E-06 ± 7.66E-08	5.00 ± 0.60	4.44 ± 0.29	1.88 ± 0.12
bn081229675	1.06E-06 ± 7.66E-08	5.00 ± 0.60	4.44 ± 0.29	1.88 ± 0.12
bn081230871	1.81E-07 ± 1.60E-08	3.84 ± 0.62	2.24 ± 0.30	1.27 ± 0.15
bn081231140	1.61E-05 ± 1.17E-07	17.44 ± 1.05	15.05 ± 0.50	11.21 ± 0.23
bn090101758	1.23E-05 ± 1.14E-07	14.10 ± 1.24	12.41 ± 0.56	11.66 ± 0.28
bn090102122	2.79E-05 ± 6.10E-08	19.97 ± 0.97	17.20 ± 0.47	11.17 ± 0.21
bn090107681	2.90E-06 ± 1.02E-07	6.84 ± 1.63	5.03 ± 0.60	3.13 ± 0.32

Table 7—Continued

Trigger ID	Fluence (erg cm <sup>-2</sup> )	PF64 (ph cm <sup>-2</sup> s <sup>-1</sup> )	PF256 (ph cm <sup>-2</sup> s <sup>-1</sup> )	PF1024 (ph cm <sup>-2</sup> s <sup>-1</sup> )
bn090108020	7.47E-07 ± 1.66E-08	25.43 ± 1.36	18.64 ± 0.62	7.91 ± 0.25
bn090108322	5.36E-07 ± 1.41E-08	10.33 ± 1.03	7.16 ± 0.42	1.97 ± 0.20
bn090109332	2.09E-07 ± 2.31E-08	4.34 ± 1.17	3.14 ± 0.48	1.83 ± 0.22
bn090112332	3.92E-06 ± 6.84E-08	7.50 ± 1.52	6.53 ± 0.74	6.03 ± 0.30
bn090112729	9.23E-06 ± 1.08E-07	18.12 ± 1.32	16.05 ± 0.63	13.26 ± 0.30
bn090113778	1.57E-06 ± 4.83E-08	6.12 ± 0.71	5.30 ± 0.36	3.77 ± 0.16
bn090117335	1.10E-06 ± 3.50E-08	5.38 ± 1.40	4.37 ± 0.50	3.67 ± 0.27
bn090117632	1.19E-05 ± 1.97E-07	5.71 ± 0.82	3.66 ± 0.40	3.28 ± 0.18
bn090117640	2.53E-06 ± 4.70E-08	16.83 ± 0.95	15.38 ± 0.49	10.22 ± 0.21
bn090120627	7.68E-07 ± 2.08E-08	4.66 ± 0.77	2.92 ± 0.30	1.84 ± 0.15
bn090126227	1.10E-06 ± 2.02E-08	5.52 ± 0.78	4.48 ± 0.38	4.02 ± 0.18
bn090126245	3.58E-07 ± 1.93E-08	3.59 ± 0.48	2.10 ± 0.23	1.37 ± 0.11
bn090129880	5.57E-06 ± 6.20E-08	9.78 ± 1.01	7.14 ± 0.43	6.60 ± 0.22
bn090131090	1.75E-05 ± 6.57E-08	59.41 ± 1.95	55.09 ± 0.94	40.31 ± 0.42
bn090202347	4.95E-06 ± 3.10E-08	7.28 ± 0.84	6.43 ± 0.40	5.75 ± 0.21
bn090206620	7.15E-07 ± 1.22E-08	12.70 ± 1.07	8.48 ± 0.53	2.55 ± 0.21
bn090207777	2.41E-06 ± 4.17E-08	3.67 ± 1.06	3.38 ± 0.53	2.79 ± 0.22
bn090213236	1.10E-06 ± 5.82E-08	3.67 ± 1.40	2.16 ± 0.44	1.26 ± 0.22
bn090217206	2.75E-05 ± 3.19E-08	13.06 ± 1.05	10.91 ± 0.52	9.74 ± 0.25
bn090219074	2.12E-07 ± 5.42E-08	11.66 ± 3.09	6.88 ± 1.42	3.18 ± 0.60
bn090222179	3.23E-06 ± 5.38E-08	4.93 ± 0.85	3.61 ± 0.38	3.01 ± 0.17
bn090225009	1.54E-07 ± 1.52E-08	4.64 ± 1.53	3.48 ± 0.38	1.44 ± 0.28
bn090227310	2.86E-06 ± 2.08E-08	6.67 ± 1.21	4.68 ± 0.48	3.94 ± 0.27
bn090227772	7.86E-06 ± 4.06E-08	113.03 ± 14.14	59.40 ± 3.62	16.98 ± 0.93
bn090228204	6.19E-06 ± 2.65E-08	134.01 ± 2.74	54.58 ± 0.96	16.89 ± 0.32
bn090228976	9.64E-07 ± 6.58E-08	3.94 ± 1.21	2.96 ± 0.46	2.28 ± 0.24
bn090301315	2.27E-06 ± 3.78E-08	5.01 ± 0.81	4.07 ± 0.38	3.72 ± 0.18
bn090304216	8.99E-07 ± 1.02E-07	3.40 ± 0.52	2.74 ± 0.36	1.91 ± 0.16
bn090305052	1.94E-06 ± 1.33E-08	9.05 ± 0.58	8.04 ± 0.29	5.20 ± 0.15
bn090306245	1.37E-06 ± 3.70E-08	3.59 ± 0.98	2.21 ± 0.45	1.72 ± 0.22
bn090307167	1.09E-06 ± 3.69E-08	3.97 ± 1.36	2.66 ± 0.44	1.41 ± 0.24
bn090308734	2.55E-06 ± 2.89E-08	12.33 ± 0.71	8.50 ± 0.36	6.56 ± 0.17

Table 7—Continued

Trigger ID	Fluence (erg cm <sup>-2</sup> )	PF64 (ph cm <sup>-2</sup> s <sup>-1</sup> )	PF256 (ph cm <sup>-2</sup> s <sup>-1</sup> )	PF1024 (ph cm <sup>-2</sup> s <sup>-1</sup> )
bn090309767	4.42E-06 ± 6.88E-08	5.19 ± 1.81	4.45 ± 0.44	3.46 ± 0.21
bn090310189	5.54E-06 ± 6.20E-08	5.27 ± 0.94	4.16 ± 0.41	3.43 ± 0.20
bn090316311	1.06E-06 ± 2.21E-08	10.32 ± 1.28	7.60 ± 0.71	3.79 ± 0.31
bn090319622	6.03E-06 ± 6.50E-08	5.81 ± 1.37	4.37 ± 0.63	3.57 ± 0.28
bn090320045	4.45E-07 ± 2.31E-08	2.80 ± 0.65	1.87 ± 0.27	1.42 ± 0.13
bn090320418	1.00E-06 ± 3.85E-08	4.17 ± 0.80	2.15 ± 0.31	1.60 ± 0.14
bn090320801	1.67E-06 ± 6.16E-08	6.10 ± 1.39	4.98 ± 0.43	4.36 ± 0.25
bn090323002	1.18E-04 ± 1.74E-07	14.33 ± 0.84	13.38 ± 0.44	12.65 ± 0.22
bn090326633	1.70E-06 ± 6.37E-08	7.15 ± 1.03	5.80 ± 0.45	4.90 ± 0.22
bn090327404	2.82E-06 ± 6.06E-08	4.64 ± 0.79	3.66 ± 0.36	3.04 ± 0.18
bn090328401	4.20E-05 ± 6.53E-08	25.35 ± 1.50	21.95 ± 0.70	17.23 ± 0.33
bn090328713	1.19E-07 ± 1.84E-08	17.35 ± 1.45	8.17 ± 0.59	1.97 ± 0.22
bn090330279	1.18E-05 ± 4.05E-08	7.49 ± 0.85	6.35 ± 0.36	5.54 ± 0.18
bn090331681	3.45E-07 ± 3.46E-08	7.19 ± 0.82	4.01 ± 0.35	1.97 ± 0.16
bn090403314	1.09E-06 ± 1.93E-08	3.02 ± 1.08	2.43 ± 0.42	1.82 ± 0.21
bn090405663	2.54E-07 ± 3.10E-08	6.73 ± 1.08	3.91 ± 0.45	1.16 ± 0.18
bn090409288	1.13E-06 ± 5.94E-08	3.69 ± 0.79	2.11 ± 0.27	1.60 ± 0.14
bn090411838	6.67E-06 ± 1.03E-07	8.77 ± 1.06	6.96 ± 0.49	5.24 ± 0.23
bn090411991	6.21E-06 ± 8.85E-08	7.96 ± 1.11	6.34 ± 0.55	4.72 ± 0.25
bn090412061	1.25E-07 ± 1.36E-08	4.12 ± 1.20	3.29 ± 0.50	0.87 ± 0.20
bn090413122	3.23E-06 ± 4.92E-08	4.42 ± 0.64	3.90 ± 0.34	3.04 ± 0.17
bn090418816	1.82E-07 ± 3.26E-08	5.88 ± 1.27	3.60 ± 0.54	1.68 ± 0.24
bn090419997	9.54E-06 ± 2.38E-07	5.77 ± 0.83	4.68 ± 0.38	4.13 ± 0.18
bn090422150	4.59E-07 ± 3.44E-08	4.94 ± 1.31	3.74 ± 0.50	2.37 ± 0.24
bn090423330	8.16E-07 ± 7.15E-08	4.24 ± 1.22	2.30 ± 0.48	1.62 ± 0.21
bn090424592	4.63E-05 ± 3.86E-08	126.67 ± 2.04	121.25 ± 0.99	109.51 ± 0.49
bn090425377	1.81E-05 ± 1.52E-07	18.63 ± 1.65	17.15 ± 0.89	13.88 ± 0.42
bn090426066	6.77E-07 ± 4.37E-08	3.21 ± 0.86	2.63 ± 0.41	2.03 ± 0.18
bn090426690	3.54E-06 ± 8.82E-08	9.16 ± 0.86	7.13 ± 0.41	6.31 ± 0.19
bn090427644	2.65E-07 ± 2.22E-08	2.97 ± 0.82	2.30 ± 0.33	1.71 ± 0.15
bn090427688	1.62E-06 ± 3.18E-08	5.03 ± 1.09	3.59 ± 0.52	2.55 ± 0.24
bn090428441	1.04E-06 ± 6.27E-08	9.21 ± 1.05	8.44 ± 0.52	6.29 ± 0.25

Table 7—Continued

Trigger ID	Fluence (erg cm <sup>-2</sup> )	PF64 (ph cm <sup>-2</sup> s <sup>-1</sup> )	PF256 (ph cm <sup>-2</sup> s <sup>-1</sup> )	PF1024 (ph cm <sup>-2</sup> s <sup>-1</sup> )
bn090428552	5.60E-06 ± 1.24E-07	9.87 ± 1.16	8.74 ± 0.48	7.61 ± 0.24
bn090429530	4.36E-06 ± 1.38E-07	6.44 ± 1.07	4.02 ± 0.49	3.28 ± 0.22
bn090429753	1.12E-06 ± 4.33E-08	8.62 ± 0.83	7.53 ± 0.35	3.90 ± 0.15
bn090502777	3.50E-06 ± 2.85E-08	8.79 ± 1.58	6.89 ± 0.70	5.28 ± 0.33
bn090509215	5.42E-06 ± 7.36E-08	3.86 ± 0.87	2.79 ± 0.32	2.32 ± 0.17
bn090510016	3.37E-06 ± 4.06E-08	40.95 ± 1.58	22.99 ± 0.75	9.10 ± 0.24
bn090510325	5.60E-07 ± 2.75E-08	3.14 ± 1.21	2.52 ± 0.42	1.81 ± 0.25
bn090511684	2.49E-06 ± 8.47E-08	5.56 ± 0.80	4.30 ± 0.40	3.46 ± 0.19
bn090513916	4.94E-06 ± 1.77E-07	4.87 ± 1.03	3.53 ± 0.41	2.12 ± 0.17
bn090513941	1.04E-06 ± 3.01E-08	5.21 ± 1.86	3.99 ± 0.75	2.40 ± 0.36
bn090514006	6.46E-06 ± 1.07E-07	7.80 ± 0.80	7.04 ± 0.42	6.01 ± 0.20
bn090514726	2.25E-06 ± 3.13E-08	13.46 ± 1.12	12.24 ± 0.57	7.98 ± 0.26
bn090514734	9.55E-06 ± 2.10E-07	6.88 ± 1.15	6.50 ± 0.32	4.56 ± 0.22
bn090516137	1.68E-05 ± 1.85E-07	4.58 ± 0.84	3.65 ± 0.33	3.02 ± 0.17
bn090516353	1.72E-05 ± 5.60E-08	7.54 ± 1.10	5.14 ± 0.40	4.41 ± 0.22
bn090516853	5.00E-06 ± 9.59E-08	10.02 ± 1.07	9.28 ± 0.49	7.98 ± 0.24
bn090518080	9.91E-07 ± 2.67E-08	9.75 ± 5.05	5.68 ± 0.67	4.75 ± 0.31
bn090518244	2.11E-06 ± 6.83E-08	7.10 ± 1.02	5.96 ± 0.45	4.96 ± 0.22
bn090519462	4.38E-06 ± 5.13E-08	6.53 ± 1.10	4.37 ± 0.45	2.57 ± 0.18
bn090519881	5.73E-06 ± 6.12E-08	3.45 ± 0.96	2.31 ± 0.32	1.49 ± 0.16
bn090520832	2.32E-07 ± 2.52E-08	5.76 ± 1.01	3.83 ± 0.43	2.03 ± 0.19
bn090520850	3.32E-06 ± 1.04E-07	9.53 ± 1.06	6.74 ± 0.43	5.23 ± 0.21
bn090520876	6.18E-06 ± 3.88E-08	10.80 ± 1.06	9.41 ± 0.46	8.80 ± 0.23
bn090522344	2.13E-06 ± 4.94E-08	6.06 ± 0.81	4.18 ± 0.42	3.48 ± 0.20
bn090524346	1.66E-05 ± 6.07E-08	14.50 ± 0.93	14.08 ± 0.45	12.97 ± 0.22
bn090528173	6.56E-06 ± 1.14E-07	7.67 ± 0.89	5.54 ± 0.43	4.75 ± 0.20
bn090528516	4.35E-05 ± 8.85E-08	19.32 ± 0.94	17.28 ± 0.45	12.76 ± 0.21
bn090529310	8.34E-07 ± 3.71E-08	5.71 ± 0.75	3.68 ± 0.31	3.28 ± 0.16
bn090529564	8.69E-06 ± 3.33E-08	30.71 ± 1.19	27.27 ± 0.58	22.56 ± 0.27
bn090530760	5.99E-05 ± 1.60E-07	12.75 ± 1.12	11.78 ± 0.51	10.70 ± 0.24
bn090531775	3.18E-07 ± 1.84E-08	5.92 ± 1.15	4.02 ± 0.47	3.40 ± 0.25
bn090602564	2.79E-06 ± 5.69E-08	5.07 ± 1.47	3.64 ± 0.52	2.51 ± 0.32

Table 7—Continued

Trigger ID	Fluence (erg cm <sup>-2</sup> )	PF64 (ph cm <sup>-2</sup> s <sup>-1</sup> )	PF256 (ph cm <sup>-2</sup> s <sup>-1</sup> )	PF1024 (ph cm <sup>-2</sup> s <sup>-1</sup> )
bn090606471	9.46E-07 ± 8.74E-08	5.79 ± 1.80	2.51 ± 0.48	1.60 ± 0.22
bn090608052	1.24E-06 ± 1.75E-08	4.32 ± 0.82	2.99 ± 0.36	2.25 ± 0.17
bn090610648	1.35E-06 ± 5.64E-08	4.60 ± 0.74	3.41 ± 0.33	2.95 ± 0.15
bn090610723	3.96E-06 ± 6.07E-08	3.82 ± 1.46	3.01 ± 0.51	2.22 ± 0.26
bn090610883	7.64E-07 ± 2.24E-08	4.34 ± 1.32	2.98 ± 0.52	2.08 ± 0.27
bn090612619	5.82E-06 ± 7.46E-08	7.78 ± 1.03	6.47 ± 0.47	6.05 ± 0.23
bn090616157	4.13E-07 ± 2.26E-08	4.06 ± 0.72	3.55 ± 0.33	2.62 ± 0.15
bn090617208	9.43E-07 ± 1.66E-08	18.94 ± 0.81	11.20 ± 0.38	2.93 ± 0.14
bn090618353	2.68E-04 ± 4.29E-07	76.16 ± 4.75	72.00 ± 2.32	68.72 ± 1.14
bn090620400	1.33E-05 ± 4.27E-08	19.08 ± 1.30	17.66 ± 0.59	15.43 ± 0.29
bn090620901	4.31E-07 ± 3.23E-08	3.93 ± 0.71	2.78 ± 0.35	2.08 ± 0.14
bn090621185	1.08E-05 ± 2.11E-07	5.96 ± 0.86	4.52 ± 0.42	3.63 ± 0.19
bn090621417	3.82E-06 ± 1.10E-07	6.45 ± 0.80	4.64 ± 0.37	3.67 ± 0.37
bn090621447	1.57E-06 ± 5.25E-08	5.71 ± 1.16	3.75 ± 0.49	2.84 ± 0.22
bn090621922	4.76E-07 ± 1.94E-08	9.79 ± 1.50	5.58 ± 0.69	2.02 ± 0.28
bn090623107	1.18E-05 ± 7.15E-08	8.53 ± 0.75	8.16 ± 0.38	6.22 ± 0.18
bn090623913	2.16E-06 ± 5.54E-08	5.41 ± 1.30	4.10 ± 0.47	3.60 ± 0.24
bn090625234	1.35E-06 ± 1.28E-08	3.68 ± 2.08	2.11 ± 0.57	1.43 ± 0.13
bn090625560	2.46E-06 ± 8.72E-08	6.22 ± 1.37	4.13 ± 0.56	3.44 ± 0.26
bn090626189	6.30E-05 ± 1.07E-07	53.30 ± 2.86	44.46 ± 1.34	34.25 ± 0.64
bn090626707	6.30E-05 ± 1.07E-07	53.30 ± 2.86	44.46 ± 1.34	34.25 ± 0.64
bn090629543	4.39E-07 ± 2.48E-08	3.11 ± 0.92	2.20 ± 0.40	1.07 ± 0.21
bn090630311	1.08E-06 ± 1.25E-08	7.65 ± 0.83	6.86 ± 0.42	6.19 ± 0.21
bn090701225	4.42E-07 ± 1.58E-08	5.38 ± 0.81	4.54 ± 0.40	3.14 ± 0.18
bn090703329	8.46E-07 ± 2.88E-08	3.79 ± 1.12	3.08 ± 0.34	2.46 ± 0.21
bn090704242	8.48E-06 ± 9.96E-08	5.69 ± 1.88	3.58 ± 0.47	2.57 ± 0.21
bn090704783	1.58E-06 ± 4.42E-08	5.12 ± 1.26	3.52 ± 0.58	3.03 ± 0.26
bn090706283	7.47E-06 ± 7.61E-08	6.40 ± 1.77	4.15 ± 0.52	3.07 ± 0.24
bn090708152	1.01E-06 ± 2.76E-08	3.33 ± 0.94	1.83 ± 0.38	1.37 ± 0.16
bn090709630	2.21E-06 ± 3.91E-08	5.11 ± 0.75	4.08 ± 0.33	3.39 ± 0.15
bn090711850	5.79E-06 ± 1.31E-07	5.84 ± 1.03	4.62 ± 0.46	3.60 ± 0.21
bn090712160	7.60E-06 ± 2.59E-07	3.82 ± 0.82	2.05 ± 0.34	1.60 ± 0.15

Table 7—Continued

Trigger ID	Fluence (erg cm <sup>-2</sup> )	PF64 (ph cm <sup>-2</sup> s <sup>-1</sup> )	PF256 (ph cm <sup>-2</sup> s <sup>-1</sup> )	PF1024 (ph cm <sup>-2</sup> s <sup>-1</sup> )
bn090713020	9.48E-06 ± 4.45E-08	5.43 ± 0.88	4.30 ± 0.41	3.30 ± 0.17
bn090717034	2.32E-05 ± 7.46E-08	19.76 ± 1.01	19.12 ± 0.50	16.53 ± 0.24
bn090717111	3.08E-07 ± 2.59E-08	4.18 ± 0.80	3.19 ± 0.30	1.61 ± 0.13
bn090718720	3.32E-06 ± 4.42E-08	5.42 ± 1.34	2.58 ± 0.44	1.73 ± 0.20
bn090718762	2.50E-05 ± 1.19E-07	32.18 ± 1.33	30.80 ± 0.68	28.99 ± 0.33
bn090719063	4.68E-05 ± 1.58E-07	41.57 ± 1.61	39.10 ± 0.79	37.81 ± 0.39
bn090720276	3.22E-06 ± 2.95E-08	14.07 ± 1.45	11.28 ± 0.66	10.18 ± 0.31
bn090720710	1.42E-05 ± 2.37E-08	34.19 ± 1.53	29.83 ± 0.71	9.91 ± 0.24
bn090725838	2.36E-06 ± 4.69E-08	5.74 ± 1.13	4.80 ± 0.47	4.00 ± 0.24
bn090726218	5.22E-07 ± 2.06E-08	3.07 ± 0.93	1.98 ± 0.31	1.31 ± 0.20
bn090730608	3.18E-06 ± 7.55E-08	6.58 ± 0.88	5.63 ± 0.41	4.88 ± 0.19
bn090802235	1.14E-06 ± 3.58E-08	35.46 ± 1.75	21.08 ± 0.58	5.49 ± 0.20
bn090802666	2.77E-06 ± 6.80E-08	6.27 ± 1.05	6.27 ± 0.26	3.65 ± 0.19
bn090804940	1.44E-05 ± 1.86E-07	40.69 ± 1.68	38.27 ± 0.80	36.65 ± 0.41
bn090805622	5.79E-06 ± 4.96E-08	7.36 ± 1.62	5.87 ± 0.73	4.52 ± 0.36
bn090807832	1.34E-06 ± 2.54E-08	15.82 ± 1.31	13.76 ± 0.63	9.31 ± 0.28
bn090809978	2.16E-05 ± 1.28E-07	24.93 ± 1.16	23.81 ± 0.59	22.96 ± 0.29
bn090810659	9.89E-06 ± 8.75E-08	10.06 ± 1.65	8.40 ± 0.72	7.45 ± 0.33
bn090810781	5.15E-06 ± 5.73E-08	6.84 ± 1.00	4.38 ± 0.45	3.41 ± 0.20
bn090811696	1.05E-06 ± 2.24E-08	5.07 ± 1.11	3.46 ± 0.41	2.22 ± 0.20
bn090813174	3.33E-06 ± 4.15E-08	24.15 ± 1.10	19.30 ± 0.53	13.64 ± 0.25
bn090814368	8.90E-07 ± 6.06E-09	11.43 ± 0.63	8.96 ± 0.32	2.42 ± 0.12
bn090814950	1.60E-05 ± 3.87E-07	6.58 ± 0.96	5.04 ± 0.44	4.29 ± 0.21
bn090815300	1.43E-06 ± 4.44E-08	4.50 ± 1.47	2.67 ± 0.51	1.59 ± 0.26
bn090815438	4.89E-06 ± 1.60E-07	14.18 ± 1.17	11.80 ± 0.50	11.36 ± 0.28
bn090815946	2.88E-06 ± 2.76E-08	3.30 ± 1.01	2.14 ± 0.41	1.47 ± 0.19
bn090817036	4.61E-06 ± 1.07E-07	5.50 ± 1.28	4.51 ± 0.55	3.62 ± 0.30
bn090819607	2.72E-07 ± 1.95E-08	7.26 ± 0.70	4.37 ± 0.32	1.05 ± 0.13
bn090820027	1.54E-04 ± 1.84E-07	135.43 ± 2.98	129.48 ± 1.46	124.84 ± 0.72
bn090820509	1.34E-06 ± 3.81E-08	10.21 ± 0.82	8.77 ± 0.42	5.93 ± 0.21
bn090823133	2.54E-06 ± 4.98E-08	4.96 ± 1.30	3.13 ± 0.45	2.77 ± 0.21
bn090824918	3.65E-06 ± 7.51E-08	9.78 ± 2.61	5.18 ± 0.83	3.27 ± 0.30



Table 7—Continued

Trigger ID	Fluence (erg cm <sup>-2</sup> )	PF64 (ph cm <sup>-2</sup> s <sup>-1</sup> )	PF256 (ph cm <sup>-2</sup> s <sup>-1</sup> )	PF1024 (ph cm <sup>-2</sup> s <sup>-1</sup> )
bn090826068	8.48E-07 ± 4.09E-08	4.75 ± 0.69	3.34 ± 0.32	2.82 ± 0.16
bn090828099	2.37E-05 ± 1.86E-07	16.48 ± 1.20	15.36 ± 0.61	14.54 ± 0.30
bn090829672	7.66E-05 ± 1.58E-07	58.57 ± 1.35	52.24 ± 0.66	44.21 ± 0.32
bn090829702	4.81E-06 ± 5.60E-08	3.89 ± 0.78	3.23 ± 0.35	2.59 ± 0.15
bn090831317	9.44E-06 ± 7.31E-08	38.23 ± 1.56	21.56 ± 0.68	7.12 ± 0.26
bn090902401	1.67E-06 ± 4.29E-08	8.04 ± 1.16	6.23 ± 0.54	4.56 ± 0.26
bn090902462	2.22E-04 ± 3.17E-07	100.37 ± 1.92	88.58 ± 0.93	76.89 ± 0.44
bn090904058	2.17E-05 ± 2.21E-07	10.60 ± 1.87	8.70 ± 0.81	6.77 ± 0.41
bn090904581	1.64E-06 ± 2.83E-08	3.44 ± 1.05	2.13 ± 0.67	1.42 ± 0.24
bn090907017	4.54E-06 ± 8.71E-08	6.95 ± 1.49	3.59 ± 0.52	2.83 ± 0.23
bn090907808	1.05E-06 ± 2.35E-08	7.94 ± 0.91	6.99 ± 0.45	4.66 ± 0.21
bn090908314	3.85E-06 ± 9.40E-08	5.13 ± 1.10	3.92 ± 0.47	3.47 ± 0.23
bn090908341	2.60E-06 ± 1.59E-08	5.87 ± 0.71	3.28 ± 0.35	2.15 ± 0.16
bn090909487	5.73E-06 ± 1.97E-07	13.88 ± 4.43	7.85 ± 1.74	5.84 ± 0.80
bn090909854	1.57E-07 ± 2.23E-08	6.36 ± 1.18	3.45 ± 0.51	1.80 ± 0.22
bn090910812	1.87E-05 ± 2.12E-07	7.68 ± 1.61	7.15 ± 0.77	5.05 ± 0.35
bn090912660	1.04E-05 ± 1.73E-07	4.57 ± 0.92	2.74 ± 0.38	2.09 ± 0.17
bn090915650	2.99E-06 ± 4.43E-08	5.03 ± 1.04	3.58 ± 0.41	2.83 ± 0.20
bn090917661	1.08E-06 ± 3.80E-08	4.47 ± 1.27	3.36 ± 0.53	2.71 ± 0.25
bn090920035	3.74E-06 ± 3.78E-08	8.49 ± 3.02	5.92 ± 0.74	4.57 ± 0.33
bn090922539	1.10E-05 ± 4.98E-08	16.66 ± 1.00	16.18 ± 0.50	14.65 ± 0.24
bn090922605	4.51E-06 ± 1.03E-07	12.49 ± 3.09	10.21 ± 1.39	4.82 ± 0.64
bn090924625	5.55E-07 ± 3.00E-08	9.12 ± 0.82	5.17 ± 0.34	1.48 ± 0.15
bn090925389	8.91E-06 ± 3.13E-07	7.76 ± 1.53	5.82 ± 0.61	4.56 ± 0.25
bn090926181	1.47E-04 ± 3.41E-07	135.54 ± 2.01	106.69 ± 0.90	81.45 ± 0.37
bn090926914	1.08E-05 ± 1.49E-07	6.31 ± 1.00	5.33 ± 0.47	4.61 ± 0.22
bn090927422	3.03E-07 ± 1.83E-08	6.54 ± 1.09	5.42 ± 0.59	3.32 ± 0.24
bn090928646	1.95E-06 ± 6.99E-08	7.43 ± 2.47	5.88 ± 0.65	4.68 ± 0.30
bn090929190	8.18E-06 ± 9.54E-08	30.22 ± 1.98	25.96 ± 0.94	16.73 ± 0.41
bn091002685	3.37E-07 ± 1.49E-08	3.65 ± 0.62	3.28 ± 0.37	2.45 ± 0.17
bn091003191	2.33E-05 ± 7.77E-08	46.63 ± 2.21	41.55 ± 1.07	29.16 ± 0.50
bn091005679	1.41E-06 ± 7.18E-08	3.56 ± 0.73	3.04 ± 0.34	2.18 ± 0.14

Table 7—Continued

Trigger ID	Fluence (erg cm <sup>-2</sup> )	PF64 (ph cm <sup>-2</sup> s <sup>-1</sup> )	PF256 (ph cm <sup>-2</sup> s <sup>-1</sup> )	PF1024 (ph cm <sup>-2</sup> s <sup>-1</sup> )
bn091006360	1.14E-07 ± 1.65E-08	5.34 ± 1.24	4.87 ± 0.61	1.70 ± 0.21
bn091010113	9.96E-06 ± 5.87E-08	73.03 ± 1.87	66.14 ± 0.88	40.30 ± 0.39
bn091012783	2.12E-06 ± 4.40E-08	18.43 ± 1.99	13.95 ± 0.95	8.35 ± 0.40
bn091015129	1.59E-06 ± 5.54E-08	11.86 ± 4.10	9.88 ± 0.75	6.38 ± 0.59
bn091017861	4.50E-07 ± 1.37E-08	4.27 ± 1.33	3.89 ± 0.33	3.32 ± 0.26
bn091017985	2.15E-06 ± 3.28E-08	3.98 ± 1.51	3.39 ± 0.39	2.13 ± 0.22
bn091018957	1.81E-07 ± 2.85E-08	10.23 ± 2.68	6.68 ± 1.13	2.24 ± 0.42
bn091019750	9.06E-08 ± 6.16E-09	7.61 ± 0.69	2.37 ± 0.28	0.65 ± 0.13
bn091020900	8.35E-06 ± 1.50E-07	10.30 ± 1.27	7.84 ± 0.56	6.77 ± 0.27
bn091020977	1.07E-05 ± 6.11E-08	8.08 ± 0.72	7.06 ± 0.32	5.95 ± 0.15
bn091023021	5.34E-07 ± 2.23E-08	7.58 ± 1.57	5.45 ± 0.70	4.30 ± 0.31
bn091024372	8.56E-06 ± 6.01E-08	5.65 ± 1.16	5.11 ± 0.59	4.23 ± 0.33
bn091024380	2.55E-05 ± 4.80E-08	6.60 ± 1.42	4.35 ± 0.59	3.46 ± 0.26
bn091026485	5.67E-07 ± 2.44E-08	4.96 ± 0.96	3.88 ± 0.47	2.70 ± 0.21
bn091026550	1.38E-06 ± 7.20E-08	8.67 ± 2.40	5.51 ± 1.11	3.86 ± 0.49
bn091030613	4.48E-06 ± 4.24E-08	5.75 ± 0.92	4.40 ± 0.41	3.80 ± 0.20
bn091030828	2.96E-05 ± 2.02E-07	11.96 ± 0.92	10.92 ± 0.46	9.40 ± 0.22
bn091031500	1.53E-05 ± 8.65E-08	9.89 ± 0.88	8.39 ± 0.44	7.19 ± 0.22
bn091101143	7.84E-06 ± 7.88E-08	16.46 ± 1.26	13.99 ± 0.57	12.27 ± 0.28
bn091102607	1.88E-06 ± 1.07E-07	6.58 ± 0.91	3.89 ± 0.41	2.94 ± 0.20
bn091103912	5.60E-06 ± 1.09E-07	8.73 ± 0.96	7.72 ± 0.46	6.46 ± 0.22
bn091106762	1.83E-06 ± 7.75E-08	7.72 ± 1.60	4.46 ± 0.72	2.98 ± 0.33
bn091107635	9.33E-07 ± 4.04E-08	5.25 ± 1.11	4.43 ± 0.56	3.62 ± 0.25
bn091109895	2.02E-06 ± 4.19E-08	10.84 ± 1.31	9.42 ± 0.63	6.22 ± 0.29
bn091112737	9.90E-06 ± 8.86E-08	5.74 ± 0.86	5.09 ± 0.40	4.17 ± 0.19
bn091112928	4.57E-06 ± 4.55E-08	5.87 ± 0.87	3.66 ± 0.38	2.93 ± 0.17
bn091115177	1.54E-06 ± 5.85E-08	3.30 ± 0.97	2.09 ± 0.28	1.45 ± 0.17
bn091117080	3.68E-06 ± 4.23E-08	6.29 ± 1.96	3.40 ± 0.58	2.64 ± 0.32
bn091120191	2.85E-05 ± 4.09E-07	26.85 ± 1.18	25.04 ± 0.56	19.70 ± 0.26
bn091122163	1.10E-07 ± 3.41E-08	3.06 ± 1.03	2.68 ± 0.44	1.60 ± 0.22
bn091123081	2.13E-06 ± 8.84E-08	5.76 ± 1.48	4.93 ± 0.61	4.09 ± 0.33
bn091123298	6.40E-05 ± 3.68E-07	10.07 ± 1.19	8.89 ± 0.56	6.18 ± 0.25

Table 7—Continued

Trigger ID	Fluence (erg cm <sup>-2</sup> )	PF64 (ph cm <sup>-2</sup> s <sup>-1</sup> )	PF256 (ph cm <sup>-2</sup> s <sup>-1</sup> )	PF1024 (ph cm <sup>-2</sup> s <sup>-1</sup> )
bn091126333	3.54E-07 ± 3.56E-08	9.99 ± 0.92	7.49 ± 0.42	1.90 ± 0.16
bn091126389	3.54E-07 ± 3.56E-08	9.99 ± 0.92	7.49 ± 0.42	1.90 ± 0.16
bn091127976	2.07E-05 ± 3.70E-08	102.97 ± 2.21	97.54 ± 1.10	68.22 ± 0.47
bn091128285	4.04E-05 ± 4.45E-07	14.78 ± 1.26	11.86 ± 0.59	9.71 ± 0.27
bn091201089	9.43E-07 ± 2.09E-08	3.96 ± 0.65	2.09 ± 0.20	1.48 ± 0.11
bn091202072	1.67E-06 ± 3.31E-08	4.67 ± 0.86	3.46 ± 0.37	2.75 ± 0.18
bn091202219	6.80E-06 ± 1.51E-07	5.60 ± 0.89	3.98 ± 0.29	3.34 ± 0.18
bn091207333	5.37E-06 ± 1.15E-07	6.83 ± 0.89	4.30 ± 0.38	3.46 ± 0.18
bn091208410	6.19E-06 ± 1.90E-07	31.01 ± 1.43	27.96 ± 0.68	20.58 ± 0.32
bn091209001	1.00E-05 ± 1.92E-07	10.32 ± 2.21	7.07 ± 0.97	5.99 ± 0.44
bn091215234	9.87E-07 ± 1.23E-08	5.09 ± 1.42	4.14 ± 0.67	2.81 ± 0.30
bn091219462	8.53E-07 ± 2.59E-08	5.91 ± 1.16	5.21 ± 0.60	4.12 ± 0.27
bn091220442	5.83E-06 ± 4.50E-08	11.61 ± 1.07	9.92 ± 0.53	8.69 ± 0.25
bn091221870	8.94E-06 ± 2.21E-07	7.00 ± 0.73	5.49 ± 0.36	4.35 ± 0.16
bn091223191	2.79E-07 ± 4.18E-09	3.58 ± 0.61	3.17 ± 0.29	1.76 ± 0.14
bn091223511	8.69E-06 ± 5.50E-08	4.74 ± 0.81	3.08 ± 0.28	2.28 ± 0.15
bn091224373	3.44E-07 ± 1.39E-08	6.39 ± 0.87	3.47 ± 0.38	1.27 ± 0.15
bn091227294	6.89E-06 ± 1.10E-07	7.47 ± 0.89	5.11 ± 0.38	4.14 ± 0.19
bn091230260	1.95E-06 ± 4.24E-08	3.02 ± 0.91	1.40 ± 0.30	0.87 ± 0.14
bn091230712	2.58E-06 ± 8.68E-08	6.39 ± 1.22	3.54 ± 0.49	2.76 ± 0.23
bn091231206	9.76E-06 ± 2.10E-07	6.64 ± 0.98	4.38 ± 0.42	3.83 ± 0.19
bn091231540	7.09E-07 ± 2.75E-08	3.36 ± 1.11	2.56 ± 0.45	1.88 ± 0.23
bn100101028	1.19E-06 ± 5.51E-08	5.83 ± 1.91	3.46 ± 0.85	1.64 ± 0.30
bn100101988	1.87E-06 ± 8.05E-08	3.14 ± 0.43	2.81 ± 0.24	2.08 ± 0.12
bn100107074	1.68E-07 ± 2.13E-08	11.72 ± 1.49	3.11 ± 0.50	1.37 ± 0.23
bn100111176	1.15E-06 ± 2.17E-08	4.74 ± 0.91	4.04 ± 0.37	2.75 ± 0.16
bn100112418	1.05E-06 ± 1.10E-08	3.84 ± 1.22	3.16 ± 0.48	2.11 ± 0.22
bn100116897	3.34E-05 ± 1.63E-07	18.02 ± 0.95	16.48 ± 0.46	15.87 ± 0.23
bn100117879	4.23E-07 ± 6.93E-08	7.95 ± 0.86	5.76 ± 0.39	1.59 ± 0.13
bn100118100	1.44E-06 ± 1.08E-07	5.70 ± 0.97	4.00 ± 0.43	3.20 ± 0.17
bn100122616	1.20E-05 ± 1.61E-07	52.82 ± 1.98	47.69 ± 0.90	44.28 ± 0.44
bn100126460	1.03E-06 ± 5.76E-08	3.82 ± 0.82	3.16 ± 0.43	1.60 ± 0.17

Table 7—Continued

Trigger ID	Fluence (erg cm <sup>-2</sup> )	PF64 (ph cm <sup>-2</sup> s <sup>-1</sup> )	PF256 (ph cm <sup>-2</sup> s <sup>-1</sup> )	PF1024 (ph cm <sup>-2</sup> s <sup>-1</sup> )
bn100130729	8.57E-06 ± 9.33E-08	7.65 ± 0.87	6.15 ± 0.40	5.49 ± 0.20
bn100130777	1.39E-05 ± 1.71E-07	5.73 ± 0.88	4.47 ± 0.42	3.49 ± 0.20
bn100131730	7.34E-06 ± 7.61E-08	36.51 ± 2.35	31.19 ± 1.09	24.34 ± 0.51
bn100201588	1.07E-05 ± 6.07E-08	4.48 ± 0.84	3.81 ± 0.40	2.98 ± 0.18
bn100204024	1.03E-05 ± 1.55E-07	5.47 ± 0.69	4.75 ± 0.34	4.11 ± 0.17
bn100204566	3.78E-06 ± 4.67E-08	5.89 ± 1.26	4.21 ± 0.64	3.09 ± 0.26
bn100204858	3.15E-07 ± 2.63E-08	3.85 ± 0.86	2.74 ± 0.33	1.27 ± 0.15
bn100205490	1.36E-06 ± 2.91E-08	5.03 ± 1.00	3.61 ± 0.36	3.11 ± 0.18
bn100206563	8.69E-07 ± 1.88E-08	25.23 ± 0.98	11.30 ± 0.40	2.62 ± 0.14
bn100207665	2.08E-06 ± 3.73E-08	4.39 ± 1.00	3.16 ± 0.45	1.88 ± 0.18
bn100207721	4.34E-07 ± 2.27E-08	3.09 ± 0.73	1.71 ± 0.33	1.06 ± 0.15
bn100208386	1.81E-07 ± 1.45E-08	3.48 ± 0.80	2.37 ± 0.60	0.62 ± 0.22
bn100210101	2.11E-06 ± 2.99E-08	4.59 ± 0.86	3.55 ± 0.39	3.23 ± 0.17
bn100211440	1.52E-05 ± 1.67E-07	14.00 ± 1.71	12.15 ± 0.83	11.16 ± 0.39
bn100212550	3.60E-06 ± 9.21E-08	4.91 ± 0.53	4.60 ± 0.32	3.67 ± 0.16
bn100212588	3.46E-07 ± 1.61E-08	4.87 ± 0.98	3.55 ± 0.45	2.98 ± 0.21
bn100216422	3.88E-07 ± 1.46E-08	9.00 ± 1.20	4.87 ± 0.47	1.29 ± 0.19
bn100218194	2.64E-06 ± 9.87E-08	3.66 ± 0.86	2.28 ± 0.34	1.41 ± 0.14
bn100219026	3.48E-06 ± 6.97E-08	6.36 ± 1.21	3.29 ± 0.48	1.92 ± 0.22
bn100221368	1.83E-06 ± 3.13E-08	3.57 ± 0.73	2.54 ± 0.34	1.77 ± 0.14
bn100223110	1.50E-06 ± 1.13E-08	18.61 ± 1.90	11.22 ± 0.58	3.09 ± 0.20
bn100224112	1.07E-05 ± 3.69E-07	13.82 ± 1.26	12.44 ± 0.58	10.87 ± 0.30
bn100225115	5.85E-06 ± 8.18E-08	5.30 ± 0.62	4.37 ± 0.29	3.82 ± 0.15
bn100225249	5.96E-07 ± 5.95E-08	7.28 ± 2.37	2.91 ± 0.65	1.48 ± 0.37
bn100225580	6.40E-06 ± 1.10E-07	14.05 ± 0.87	13.36 ± 0.43	11.62 ± 0.21
bn100225703	1.61E-06 ± 4.00E-08	4.25 ± 0.66	3.18 ± 0.28	2.69 ± 0.14
bn100228544	2.77E-06 ± 5.05E-08	5.02 ± 0.77	2.78 ± 0.36	1.69 ± 0.16
bn100228873	6.91E-07 ± 1.76E-08	4.27 ± 0.85	3.00 ± 0.37	2.46 ± 0.17
bn100301068	2.84E-07 ± 1.35E-08	9.15 ± 1.05	4.62 ± 0.46	1.71 ± 0.20
bn100301223	2.40E-06 ± 6.07E-08	5.28 ± 0.86	4.36 ± 0.40	3.41 ± 0.19
bn100304004	6.31E-06 ± 1.41E-07	8.08 ± 1.61	5.37 ± 0.72	3.65 ± 0.31
bn100304534	4.90E-06 ± 1.59E-07	7.93 ± 1.28	5.12 ± 0.62	4.08 ± 0.28

Table 7—Continued

Trigger ID	Fluence (erg cm <sup>-2</sup> )	PF64 (ph cm <sup>-2</sup> s <sup>-1</sup> )	PF256 (ph cm <sup>-2</sup> s <sup>-1</sup> )	PF1024 (ph cm <sup>-2</sup> s <sup>-1</sup> )
bn100306199	5.68E-07 ± 2.24E-08	4.24 ± 1.21	1.76 ± 0.45	1.32 ± 0.20
bn100307928	1.54E-06 ± 2.23E-08	4.72 ± 0.86	3.60 ± 0.37	3.05 ± 0.18
bn100311518	2.57E-06 ± 9.86E-08	4.35 ± 0.84	3.36 ± 0.39	2.56 ± 0.18
bn100313288	4.40E-06 ± 7.60E-08	8.47 ± 0.95	6.70 ± 0.43	6.05 ± 0.21
bn100313509	2.54E-06 ± 3.99E-08	4.24 ± 1.24	3.16 ± 0.38	1.87 ± 0.21
bn100315361	2.58E-06 ± 4.35E-08	2.92 ± 1.02	1.69 ± 0.44	1.01 ± 0.17
bn100318611	1.90E-06 ± 1.97E-08	5.38 ± 1.03	3.42 ± 0.48	2.62 ± 0.22
bn100322045	5.71E-05 ± 2.13E-07	20.08 ± 1.65	18.98 ± 0.80	16.10 ± 0.38
bn100323542	2.04E-06 ± 1.27E-07	4.77 ± 1.01	3.87 ± 0.48	3.22 ± 0.22
bn100324172	4.28E-05 ± 1.72E-07	36.87 ± 1.30	34.25 ± 0.64	29.54 ± 0.30
bn100325246	1.33E-06 ± 1.74E-08	6.48 ± 0.99	5.24 ± 0.47	4.90 ± 0.24
bn100325275	3.35E-06 ± 4.17E-08	7.24 ± 1.19	5.86 ± 0.57	5.02 ± 0.26
bn100326294	3.82E-07 ± 5.86E-08	5.40 ± 0.96	3.80 ± 0.45	1.89 ± 0.20
bn100326402	1.18E-05 ± 2.71E-07	6.03 ± 1.03	4.48 ± 0.47	3.52 ± 0.21
bn100328141	1.01E-06 ± 2.35E-08	13.41 ± 0.76	10.09 ± 0.36	4.15 ± 0.14
bn100330309	4.30E-06 ± 5.30E-08	9.95 ± 1.35	7.86 ± 0.63	7.06 ± 0.29
bn100330856	6.20E-07 ± 1.27E-08	4.77 ± 0.73	3.17 ± 0.34	2.80 ± 0.17
bn100401297	1.90E-06 ± 2.76E-08	6.01 ± 1.11	4.89 ± 0.47	4.08 ± 0.21
bn100406758	1.12E-06 ± 3.29E-08	4.75 ± 0.70	3.66 ± 0.36	2.95 ± 0.18
bn100410356	8.29E-07 ± 3.78E-08	5.28 ± 1.57	3.70 ± 0.66	2.05 ± 0.32
bn100410740	6.21E-06 ± 3.11E-07	20.67 ± 3.88	13.23 ± 1.67	9.38 ± 0.72
bn100411516	2.14E-07 ± 2.03E-08	5.46 ± 0.94	2.59 ± 0.62	1.42 ± 0.22
bn100413732	1.05E-05 ± 8.40E-08	4.16 ± 0.91	2.87 ± 0.31	2.07 ± 0.17
bn100414097	8.85E-05 ± 1.86E-07	28.16 ± 1.05	25.61 ± 0.52	21.93 ± 0.24
bn100417166	3.31E-07 ± 4.54E-09	7.37 ± 0.87	4.09 ± 0.35	1.11 ± 0.13
bn100417789	1.36E-06 ± 4.93E-08	4.47 ± 1.01	2.18 ± 0.41	1.69 ± 0.20
bn100420008	4.31E-06 ± 3.66E-08	6.52 ± 0.68	5.49 ± 0.37	4.27 ± 0.18
bn100421917	6.69E-06 ± 2.01E-07	5.28 ± 0.99	4.20 ± 0.44	2.97 ± 0.19
bn100423244	7.92E-06 ± 1.21E-07	5.38 ± 0.76	3.99 ± 0.32	3.35 ± 0.15
bn100424729	7.41E-06 ± 5.66E-08	5.16 ± 2.00	3.93 ± 0.62	2.75 ± 0.29
bn100424876	1.49E-05 ± 1.72E-07	6.59 ± 0.81	5.22 ± 0.37	4.53 ± 0.18
bn100427356	2.28E-06 ± 6.03E-08	6.09 ± 0.89	4.77 ± 0.40	3.82 ± 0.19

Table 7—Continued

Trigger ID	Fluence (erg cm <sup>-2</sup> )	PF64 (ph cm <sup>-2</sup> s <sup>-1</sup> )	PF256 (ph cm <sup>-2</sup> s <sup>-1</sup> )	PF1024 (ph cm <sup>-2</sup> s <sup>-1</sup> )
bn100429999	2.78E-06 ± 4.31E-08	4.22 ± 0.72	2.79 ± 0.33	2.40 ± 0.16
bn100502356	1.56E-05 ± 2.08E-07	7.35 ± 0.84	6.24 ± 0.42	5.18 ± 0.20
bn100503554	1.73E-05 ± 4.10E-07	9.34 ± 0.75	7.75 ± 0.37	5.87 ± 0.18
bn100504806	2.33E-06 ± 1.26E-07	6.46 ± 2.31	4.44 ± 0.60	3.30 ± 0.36
bn100506653	2.42E-06 ± 5.33E-08	3.85 ± 0.84	3.40 ± 0.35	2.55 ± 0.18
bn100507577	9.97E-06 ± 1.15E-07	4.75 ± 0.95	3.55 ± 0.39	3.29 ± 0.20
bn100510810	3.72E-06 ± 5.08E-08	6.70 ± 1.21	6.23 ± 0.43	4.32 ± 0.22
bn100511035	3.00E-05 ± 1.03E-07	24.87 ± 1.01	21.75 ± 0.51	14.46 ± 0.23
bn100513879	3.71E-06 ± 5.18E-08	9.68 ± 0.99	8.56 ± 0.46	7.14 ± 0.22
bn100515467	6.11E-06 ± 5.08E-08	19.34 ± 1.00	17.98 ± 0.49	16.23 ± 0.24
bn100516369	1.88E-07 ± 1.28E-08	5.09 ± 1.06	3.20 ± 0.47	1.60 ± 0.20
bn100516396	1.84E-07 ± 1.87E-08	3.54 ± 0.47	2.25 ± 0.25	1.14 ± 0.12
bn100517072	6.59E-06 ± 1.74E-08	18.68 ± 1.19	16.09 ± 0.55	13.75 ± 0.26
bn100517132	1.27E-06 ± 4.62E-08	3.83 ± 0.87	2.38 ± 0.35	1.95 ± 0.15
bn100517154	2.79E-06 ± 3.27E-08	14.45 ± 1.58	11.64 ± 0.76	9.12 ± 0.37
bn100517243	2.69E-06 ± 4.27E-08	5.59 ± 0.85	5.34 ± 0.47	4.65 ± 0.22
bn100517639	2.91E-06 ± 1.29E-07	11.22 ± 1.24	9.83 ± 0.61	7.64 ± 0.30
bn100519204	2.07E-05 ± 2.27E-07	8.81 ± 0.84	7.28 ± 0.41	6.66 ± 0.19
bn100522157	3.86E-06 ± 4.07E-08	15.02 ± 0.95	13.44 ± 0.54	11.06 ± 0.25
bn100525744	6.44E-07 ± 9.48E-08	8.74 ± 0.96	5.31 ± 0.44	2.52 ± 0.19
bn100527795	1.39E-05 ± 4.47E-08	8.61 ± 1.47	7.39 ± 0.67	6.49 ± 0.31
bn100528075	2.71E-05 ± 5.05E-08	17.32 ± 1.01	15.57 ± 0.52	14.77 ± 0.25
bn100530737	4.82E-07 ± 2.11E-08	4.75 ± 0.77	2.68 ± 0.34	2.07 ± 0.16
bn100604287	5.51E-06 ± 4.22E-08	10.20 ± 1.19	8.09 ± 0.58	7.48 ± 0.27
bn100605774	7.57E-07 ± 2.17E-08	3.56 ± 0.95	2.84 ± 0.39	1.94 ± 0.21
bn100608382	1.70E-06 ± 2.05E-08	4.35 ± 1.14	2.93 ± 0.42	2.29 ± 0.19
bn100609783	1.74E-05 ± 6.07E-07	5.06 ± 0.88	3.53 ± 0.40	3.14 ± 0.19
bn100612545	2.24E-06 ± 3.41E-08	12.32 ± 1.03	9.29 ± 0.45	5.80 ± 0.20
bn100612726	1.36E-05 ± 3.60E-07	28.42 ± 1.26	26.83 ± 0.59	26.08 ± 0.29
bn100614498	1.96E-05 ± 3.26E-07	5.93 ± 0.80	6.44 ± 0.37	5.46 ± 0.16
bn100615083	8.72E-06 ± 8.20E-08	10.12 ± 0.96	9.45 ± 0.46	8.33 ± 0.22
bn100616773	2.76E-07 ± 1.73E-08	8.43 ± 1.34	5.27 ± 0.61	2.03 ± 0.26

Table 7—Continued

Trigger ID	Fluence (erg cm <sup>-2</sup> )	PF64 (ph cm <sup>-2</sup> s <sup>-1</sup> )	PF256 (ph cm <sup>-2</sup> s <sup>-1</sup> )	PF1024 (ph cm <sup>-2</sup> s <sup>-1</sup> )
bn100619015	1.13E-05 ± 7.39E-08	13.06 ± 1.56	9.51 ± 0.72	7.40 ± 0.30
bn100620119	3.72E-06 ± 8.43E-08	5.44 ± 1.50	3.88 ± 0.47	2.85 ± 0.20
bn100621452	7.67E-06 ± 2.90E-07	4.66 ± 0.83	3.53 ± 0.37	3.14 ± 0.18
bn100621529	1.37E-07 ± 4.52E-09	2.87 ± 0.64	1.52 ± 0.29	1.12 ± 0.14
bn100625773	1.10E-06 ± 6.40E-08	16.54 ± 1.60	15.42 ± 0.84	4.90 ± 0.31
bn100625891	1.40E-06 ± 1.46E-08	3.00 ± 1.16	2.54 ± 0.39	1.71 ± 0.20
bn100629801	1.15E-06 ± 1.05E-07	18.79 ± 1.80	16.54 ± 0.87	8.76 ± 0.40
bn100701490	2.60E-05 ± 4.26E-08	61.92 ± 1.93	35.45 ± 0.74	22.92 ± 0.31
bn100704149	1.04E-05 ± 1.12E-07	9.24 ± 0.89	7.85 ± 0.43	7.01 ± 0.20
bn100706693	1.32E-07 ± 6.86E-09	3.84 ± 0.69	2.53 ± 0.35	0.52 ± 0.17
bn100707032	8.77E-05 ± 1.56E-07	54.94 ± 1.66	52.27 ± 0.84	48.32 ± 0.42
bn100709602	8.08E-06 ± 7.53E-08	5.78 ± 1.06	4.56 ± 0.48	3.75 ± 0.24
bn100713980	3.05E-06 ± 1.70E-08	6.12 ± 1.17	5.13 ± 0.58	4.12 ± 0.26
bn100714672	3.25E-06 ± 9.59E-08	9.52 ± 2.74	8.38 ± 1.27	4.28 ± 0.57
bn100714686	1.56E-06 ± 3.63E-08	22.04 ± 2.34	17.40 ± 1.10	9.13 ± 0.45
bn100715477	2.55E-06 ± 1.36E-07	4.33 ± 0.72	3.22 ± 0.28	2.14 ± 0.12
bn100717372	4.26E-07 ± 2.68E-08	7.57 ± 1.36	5.09 ± 0.67	3.49 ± 0.28
bn100717446	3.33E-07 ± 1.44E-08	5.56 ± 1.03	3.78 ± 0.45	2.61 ± 0.21
bn100718160	2.75E-06 ± 5.24E-08	6.69 ± 1.07	5.87 ± 0.51	4.05 ± 0.22
bn100718796	2.53E-06 ± 3.98E-08	4.19 ± 1.14	3.36 ± 0.47	2.44 ± 0.23
bn100719311	3.87E-07 ± 3.66E-08	3.88 ± 0.83	2.56 ± 0.42	1.90 ± 0.20
bn100719825	2.74E-07 ± 2.49E-08	4.57 ± 1.45	3.74 ± 0.57	2.18 ± 0.26
bn100719989	5.19E-05 ± 6.54E-07	81.99 ± 2.26	76.71 ± 1.09	54.00 ± 0.49
bn100722096	8.31E-06 ± 3.92E-08	43.81 ± 2.02	37.72 ± 0.95	24.89 ± 0.44
bn100722291	1.04E-07 ± 2.50E-08	7.40 ± 2.09	4.38 ± 0.99	1.73 ± 0.44
bn100724029	2.17E-04 ± 5.68E-07	27.07 ± 1.25	25.47 ± 0.64	23.79 ± 0.32
bn100725475	4.69E-06 ± 2.30E-07	7.87 ± 2.18	4.80 ± 0.66	3.61 ± 0.31
bn100727238	1.06E-06 ± 2.23E-08	3.72 ± 1.13	2.84 ± 0.45	1.71 ± 0.23
bn100728095	1.28E-04 ± 5.76E-07	13.03 ± 1.20	12.12 ± 0.59	10.55 ± 0.28
bn100728439	3.34E-06 ± 6.47E-08	8.42 ± 1.27	7.59 ± 0.57	6.15 ± 0.27
bn100730463	6.06E-06 ± 1.49E-07	3.90 ± 0.81	2.59 ± 0.32	2.23 ± 0.15
bn100802240	1.20E-06 ± 3.23E-08	2.91 ± 0.94	2.14 ± 0.39	1.38 ± 0.17

Table 7—Continued

Trigger ID	Fluence (erg cm <sup>-2</sup> )	PF64 (ph cm <sup>-2</sup> s <sup>-1</sup> )	PF256 (ph cm <sup>-2</sup> s <sup>-1</sup> )	PF1024 (ph cm <sup>-2</sup> s <sup>-1</sup> )
bn100804104	1.07E-05 ± 2.05E-07	19.16 ± 1.20	17.83 ± 0.58	16.60 ± 0.29
bn100805300	2.04E-07 ± 7.35E-08	21.48 ± 3.62	5.65 ± 1.21	1.70 ± 0.53
bn100805845	1.06E-05 ± 1.69E-07	7.57 ± 0.89	6.84 ± 0.40	6.13 ± 0.19
bn100810049	3.94E-07 ± 4.60E-08	4.46 ± 1.06	3.85 ± 0.48	3.08 ± 0.20
bn100811108	2.93E-06 ± 1.88E-08	19.03 ± 1.00	14.76 ± 0.47	5.86 ± 0.18
bn100811781	4.68E-06 ± 7.63E-08	7.23 ± 1.51	5.71 ± 0.68	3.91 ± 0.30
bn100814160	1.49E-05 ± 9.47E-08	6.94 ± 1.41	5.04 ± 0.56	4.60 ± 0.28
bn100814351	4.15E-06 ± 4.08E-08	13.21 ± 1.56	11.56 ± 0.77	10.38 ± 0.37
bn100816009	2.53E-05 ± 2.34E-07	12.27 ± 1.71	9.17 ± 0.68	7.42 ± 0.36
bn100816026	3.65E-06 ± 5.31E-08	19.88 ± 1.08	17.78 ± 0.52	15.59 ± 0.25
bn100819498	3.32E-06 ± 1.06E-07	5.05 ± 0.89	3.20 ± 0.38	2.49 ± 0.18
bn100820373	2.99E-06 ± 5.62E-08	19.87 ± 1.49	17.90 ± 0.76	14.65 ± 0.36
bn100825287	1.38E-06 ± 2.97E-08	14.24 ± 1.78	12.85 ± 0.80	10.13 ± 0.40
bn100826957	1.64E-04 ± 9.71E-08	37.33 ± 1.71	33.19 ± 0.81	29.58 ± 0.40
bn100827455	1.03E-06 ± 2.24E-08	19.12 ± 1.24	8.86 ± 0.51	3.14 ± 0.20
bn100829374	7.29E-06 ± 4.81E-08	8.10 ± 1.31	7.41 ± 0.46	6.43 ± 0.30
bn100829876	1.50E-05 ± 7.20E-08	82.08 ± 2.33	68.67 ± 1.08	45.05 ± 0.46
bn100831651	2.93E-06 ± 1.14E-07	5.42 ± 2.24	3.76 ± 0.80	2.60 ± 0.38
bn100902990	2.11E-06 ± 4.14E-08	5.78 ± 1.31	3.26 ± 0.46	2.70 ± 0.24
bn100905907	1.85E-06 ± 2.04E-08	4.95 ± 1.18	3.93 ± 0.63	3.15 ± 0.27
bn100906576	2.33E-05 ± 5.79E-08	19.42 ± 1.85	18.13 ± 0.88	14.49 ± 0.42
bn100907751	7.33E-07 ± 5.55E-08	4.92 ± 1.04	4.05 ± 0.57	3.41 ± 0.26
bn100910818	1.34E-05 ± 4.74E-08	33.32 ± 1.51	31.39 ± 0.73	23.22 ± 0.34
bn100911816	8.68E-07 ± 3.63E-08	5.42 ± 0.93	3.14 ± 0.40	2.50 ± 0.19
bn100915243	4.75E-07 ± 2.80E-08	5.03 ± 1.70	2.78 ± 0.73	1.84 ± 0.32
bn100916779	1.78E-06 ± 1.38E-07	21.34 ± 2.97	14.72 ± 1.33	4.97 ± 0.46
bn100918863	8.92E-05 ± 2.29E-06	10.94 ± 0.79	9.48 ± 0.37	8.72 ± 0.18
bn100919884	5.76E-06 ± 8.61E-08	5.39 ± 0.71	4.36 ± 0.23	3.97 ± 0.16
bn100922625	4.25E-07 ± 1.22E-08	2.55 ± 1.03	1.96 ± 0.43	1.47 ± 0.22
bn100923844	3.92E-06 ± 5.12E-08	8.19 ± 1.38	7.29 ± 0.63	6.61 ± 0.31
bn100924165	3.33E-06 ± 3.80E-08	9.75 ± 0.74	9.20 ± 0.38	7.32 ± 0.18
bn100926595	6.97E-06 ± 1.59E-08	11.12 ± 1.72	9.52 ± 0.82	8.44 ± 0.37



Table 7—Continued

Trigger ID	Fluence (erg cm <sup>-2</sup> )	PF64 (ph cm <sup>-2</sup> s <sup>-1</sup> )	PF256 (ph cm <sup>-2</sup> s <sup>-1</sup> )	PF1024 (ph cm <sup>-2</sup> s <sup>-1</sup> )
bn100926694	1.37E-06 ± 3.29E-08	3.66 ± 0.98	2.42 ± 0.20	1.68 ± 0.17
bn100929235	4.95E-07 ± 1.74E-08	2.72 ± 0.70	1.86 ± 0.31	1.44 ± 0.18
bn100929315	3.25E-07 ± 1.97E-08	5.30 ± 1.66	3.59 ± 0.66	2.47 ± 0.28
bn100929916	7.61E-07 ± 2.20E-08	16.15 ± 1.77	9.20 ± 0.76	3.64 ± 0.32
bn101002279	4.40E-07 ± 3.32E-08	2.87 ± 0.93	2.16 ± 0.41	1.37 ± 0.21
bn101003244	2.23E-06 ± 3.27E-08	8.43 ± 1.32	7.57 ± 0.57	6.33 ± 0.26
bn101004426	9.03E-06 ± 1.02E-07	6.09 ± 1.86	4.08 ± 0.75	3.10 ± 0.42
bn101008697	1.35E-06 ± 4.34E-08	5.51 ± 1.29	4.31 ± 0.59	2.66 ± 0.26
bn101010190	1.55E-06 ± 6.00E-08	3.98 ± 1.02	3.01 ± 0.48	1.93 ± 0.20
bn101011707	2.71E-06 ± 9.10E-08	7.12 ± 3.00	4.95 ± 0.63	2.77 ± 0.43
bn101013412	6.41E-06 ± 7.61E-08	12.30 ± 0.98	10.79 ± 0.47	7.78 ± 0.22
bn101014175	2.01E-04 ± 4.27E-07	71.22 ± 1.79	69.29 ± 0.76	58.96 ± 0.42
bn101015558	3.74E-05 ± 2.44E-07	4.83 ± 0.75	3.60 ± 0.34	2.92 ± 0.16
bn101016243	2.44E-06 ± 1.49E-08	14.41 ± 1.29	14.04 ± 0.64	11.58 ± 0.32
bn101017619	1.78E-06 ± 1.81E-08	3.00 ± 0.80	2.49 ± 0.20	1.26 ± 0.18
bn101021009	2.23E-05 ± 5.39E-07	14.94 ± 2.47	11.84 ± 0.75	10.12 ± 0.45
bn101021063	2.93E-07 ± 2.06E-08	4.03 ± 0.97	3.11 ± 0.48	1.99 ± 0.23
bn101023951	6.37E-05 ± 5.10E-07	41.16 ± 2.11	38.48 ± 1.03	36.74 ± 0.51
bn101024486	3.33E-06 ± 1.32E-07	16.86 ± 4.56	12.28 ± 1.95	8.27 ± 0.79
bn101025146	2.79E-07 ± 1.56E-08	2.46 ± 0.88	1.82 ± 0.37	1.24 ± 0.20
bn101026034	9.30E-07 ± 2.26E-08	13.99 ± 1.75	10.19 ± 0.58	2.85 ± 0.26
bn101027230	1.44E-07 ± 8.75E-09	5.49 ± 1.13	2.77 ± 0.40	0.61 ± 0.20
bn101030664	5.12E-06 ± 3.86E-08	5.47 ± 1.42	2.89 ± 0.56	2.01 ± 0.24
bn101031625	2.22E-07 ± 2.91E-08	9.82 ± 1.47	7.57 ± 0.67	2.69 ± 0.26
bn101101744	6.50E-07 ± 2.28E-08	9.94 ± 1.43	9.57 ± 0.72	7.87 ± 0.30
bn101101899	2.60E-06 ± 2.72E-08	4.48 ± 1.29	2.82 ± 0.52	2.07 ± 0.26
bn101102840	1.72E-06 ± 3.28E-08	4.68 ± 1.05	2.51 ± 0.44	1.64 ± 0.20
bn101104810	8.93E-07 ± 2.54E-08	5.16 ± 0.98	4.02 ± 0.37	3.01 ± 0.21
bn101107011	7.26E-06 ± 2.42E-07	5.46 ± 1.42	4.12 ± 0.29	3.50 ± 0.23
bn101112924	2.26E-06 ± 7.71E-08	9.82 ± 1.73	9.01 ± 0.87	7.89 ± 0.40
bn101112984	8.57E-06 ± 9.74E-08	4.76 ± 1.25	4.12 ± 0.40	2.02 ± 0.22
bn101113483	3.06E-06 ± 2.93E-08	10.58 ± 13.08	6.27 ± 0.83	5.39 ± 0.44

Table 7—Continued

Trigger ID	Fluence (erg cm <sup>-2</sup> )	PF64 (ph cm <sup>-2</sup> s <sup>-1</sup> )	PF256 (ph cm <sup>-2</sup> s <sup>-1</sup> )	PF1024 (ph cm <sup>-2</sup> s <sup>-1</sup> )
bn101116481	3.04E-07 ± 6.39E-08	5.76 ± 1.28	4.26 ± 0.72	1.96 ± 0.30
bn101117496	8.24E-06 ± 7.69E-08	5.23 ± 1.24	4.13 ± 0.58	3.17 ± 0.26
bn101119685	1.69E-07 ± 1.59E-08	4.34 ± 1.69	3.71 ± 0.61	2.15 ± 0.28
bn101123952	1.13E-04 ± 8.62E-08	50.27 ± 2.43	46.43 ± 1.21	40.25 ± 0.58
bn101126198	3.10E-05 ± 1.45E-07	24.59 ± 1.12	22.46 ± 0.52	21.58 ± 0.25
bn101127093	6.96E-07 ± 1.73E-08	3.12 ± 1.02	1.87 ± 0.41	1.26 ± 0.22
bn101127102	3.09E-06 ± 2.83E-08	3.67 ± 1.05	2.71 ± 0.49	1.98 ± 0.21
bn101128322	8.36E-07 ± 1.52E-08	3.99 ± 1.18	2.86 ± 0.42	2.17 ± 0.21
bn101129652	8.63E-07 ± 4.43E-08	10.61 ± 1.36	8.66 ± 0.56	3.47 ± 0.23
bn101129726	8.08E-07 ± 2.61E-08	14.12 ± 1.31	10.54 ± 0.60	5.15 ± 0.26
bn101130074	2.34E-07 ± 5.06E-08	3.37 ± 1.37	1.84 ± 0.54	1.04 ± 0.27
bn101201418	2.37E-05 ± 9.90E-08	8.72 ± 1.34	7.85 ± 0.58	6.95 ± 0.31
bn101202154	1.41E-06 ± 7.96E-08	11.13 ± 2.96	6.76 ± 1.38	4.06 ± 0.66
bn101204343	2.82E-07 ± 1.49E-08	6.57 ± 0.95	3.67 ± 0.37	0.85 ± 0.18
bn101205309	3.90E-07 ± 3.80E-08	3.27 ± 1.09	2.12 ± 0.45	1.35 ± 0.23
bn101206036	5.84E-06 ± 8.19E-08	5.12 ± 0.87	4.80 ± 0.46	4.14 ± 0.22
bn101207536	6.65E-06 ± 7.18E-08	7.79 ± 1.18	6.50 ± 0.56	3.62 ± 0.22
bn101208203	3.10E-07 ± 1.59E-08	4.62 ± 1.00	4.12 ± 0.46	1.59 ± 0.24
bn101208498	3.84E-06 ± 5.31E-08	48.87 ± 2.38	47.54 ± 1.18	31.96 ± 0.55
bn101211485	1.63E-06 ± 4.53E-08	5.45 ± 1.14	3.98 ± 0.45	3.48 ± 0.23
bn101213451	7.40E-06 ± 1.05E-07	7.82 ± 2.04	7.05 ± 0.66	4.53 ± 0.40
bn101213849	1.35E-06 ± 2.04E-08	8.64 ± 1.16	6.94 ± 0.57	5.77 ± 0.28
bn101214748	2.37E-07 ± 3.01E-08	7.41 ± 1.38	5.72 ± 0.47	1.92 ± 0.26
bn101214993	1.09E-06 ± 3.76E-08	3.70 ± 1.15	3.55 ± 0.37	2.87 ± 0.23
bn101216721	3.04E-06 ± 6.78E-08	25.08 ± 1.84	24.07 ± 0.88	18.75 ± 0.42
bn101219686	3.99E-06 ± 4.89E-08	3.16 ± 0.84	2.60 ± 0.35	2.00 ± 0.18
bn101220576	9.60E-06 ± 9.41E-08	7.32 ± 1.80	5.01 ± 0.78	3.46 ± 0.34
bn101220864	5.29E-06 ± 9.03E-08	7.69 ± 0.87	6.56 ± 0.39	6.06 ± 0.20
bn101223834	2.46E-06 ± 4.54E-08	3.82 ± 1.20	2.98 ± 0.74	1.73 ± 0.29
bn101224227	1.91E-07 ± 2.69E-08	6.71 ± 1.04	4.83 ± 0.59	1.31 ± 0.21
bn101224578	3.89E-06 ± 2.23E-08	6.75 ± 0.99	6.53 ± 0.34	5.33 ± 0.20
bn101224614	2.61E-06 ± 5.76E-08	6.35 ± 1.41	4.54 ± 0.51	3.11 ± 0.25

Table 7—Continued

Trigger ID	Fluence (erg cm <sup>-2</sup> )	PF64 (ph cm <sup>-2</sup> s <sup>-1</sup> )	PF256 (ph cm <sup>-2</sup> s <sup>-1</sup> )	PF1024 (ph cm <sup>-2</sup> s <sup>-1</sup> )
bn101224998	1.36E-06 ± 2.60E-08	3.85 ± 0.98	3.37 ± 0.53	2.30 ± 0.23
bn101225377	2.02E-05 ± 2.96E-07	10.64 ± 1.42	7.97 ± 0.66	7.44 ± 0.33
bn101227195	3.43E-06 ± 9.02E-08	7.69 ± 1.88	5.76 ± 0.74	4.16 ± 0.39
bn101227406	1.38E-05 ± 9.30E-08	8.71 ± 1.40	7.65 ± 0.69	7.03 ± 0.34
bn101227536	6.44E-06 ± 3.68E-08	9.70 ± 1.01	8.10 ± 0.51	4.93 ± 0.22
bn101231067	1.68E-05 ± 1.18E-07	22.39 ± 1.87	19.38 ± 0.86	15.02 ± 0.40
bn110101202	2.50E-07 ± 2.82E-08	3.95 ± 1.03	3.23 ± 0.53	1.84 ± 0.24
bn110101506	6.63E-06 ± 7.23E-08	4.05 ± 1.09	2.73 ± 0.63	1.95 ± 0.23
bn110102788	3.72E-05 ± 2.05E-07	19.00 ± 1.44	17.63 ± 0.72	14.07 ± 0.35
bn110105877	2.09E-05 ± 1.05E-07	10.20 ± 1.39	9.36 ± 0.68	7.64 ± 0.32
bn110106893	4.11E-06 ± 5.62E-08	4.75 ± 1.22	3.24 ± 0.56	2.77 ± 0.27
bn110107886	1.32E-05 ± 1.24E-07	5.07 ± 0.99	4.10 ± 0.48	3.00 ± 0.21
bn110108977	2.51E-06 ± 5.58E-08	4.30 ± 1.45	2.93 ± 0.70	1.89 ± 0.31
bn110112934	4.05E-07 ± 2.72E-08	8.22 ± 1.23	6.05 ± 0.60	2.29 ± 0.23
bn110117364	2.56E-06 ± 1.07E-07	6.21 ± 2.04	2.40 ± 0.69	1.42 ± 0.32
bn110117626	3.03E-06 ± 1.91E-08	4.49 ± 1.18	3.60 ± 0.47	2.41 ± 0.23
bn110118857	2.97E-06 ± 4.35E-08	11.25 ± 1.48	10.64 ± 0.73	8.41 ± 0.34
bn110119931	1.01E-05 ± 4.56E-08	6.34 ± 1.28	5.25 ± 0.59	3.93 ± 0.28
bn110120666	1.79E-05 ± 2.31E-07	14.85 ± 1.33	11.56 ± 0.62	10.43 ± 0.30
bn110123804	1.90E-05 ± 5.99E-08	11.15 ± 1.21	9.29 ± 0.54	8.46 ± 0.26
bn110124784	1.59E-07 ± 1.36E-08	3.79 ± 1.23	1.59 ± 0.44	1.03 ± 0.20
bn110125894	8.63E-07 ± 3.67E-08	7.01 ± 1.30	6.09 ± 0.45	5.25 ± 0.27
bn110128073	1.42E-06 ± 1.04E-07	2.83 ± 1.05	2.31 ± 0.40	1.55 ± 0.19
bn110130230	2.90E-06 ± 4.24E-08	4.14 ± 1.14	3.03 ± 0.46	1.93 ± 0.22
bn110131780	5.75E-08 ± 1.52E-08	4.39 ± 1.26	3.07 ± 0.51	1.13 ± 0.23
bn110201399	3.15E-06 ± 1.65E-07	6.56 ± 1.85	4.35 ± 0.92	3.47 ± 0.44
bn110204179	3.10E-06 ± 6.58E-08	5.28 ± 1.42	4.13 ± 0.57	3.55 ± 0.27
bn110205027	1.95E-07 ± 3.61E-08	4.15 ± 1.43	2.76 ± 0.68	1.31 ± 0.31
bn110205588	4.21E-06 ± 8.33E-08	8.57 ± 3.91	5.37 ± 1.07	3.71 ± 0.48
bn110206202	7.90E-07 ± 3.97E-08	5.15 ± 1.60	3.51 ± 0.63	2.16 ± 0.29
bn110207470	2.49E-06 ± 3.75E-08	8.77 ± 1.19	5.15 ± 0.52	2.05 ± 0.21
bn110207959	3.42E-07 ± 5.48E-08	4.71 ± 1.54	3.30 ± 0.58	2.31 ± 0.28

Table 7—Continued

Trigger ID	Fluence (erg cm <sup>-2</sup> )	PF64 (ph cm <sup>-2</sup> s <sup>-1</sup> )	PF256 (ph cm <sup>-2</sup> s <sup>-1</sup> )	PF1024 (ph cm <sup>-2</sup> s <sup>-1</sup> )
bn110209165	6.73E-07 ± 3.02E-08	3.96 ± 1.39	3.19 ± 0.63	2.18 ± 0.27
bn110212550	6.35E-07 ± 1.23E-08	17.34 ± 1.15	9.13 ± 0.47	2.50 ± 0.19
bn110213220	9.37E-06 ± 5.16E-08	21.63 ± 2.32	19.63 ± 1.12	17.76 ± 0.54
bn110213876	3.27E-08 ± 1.53E-08	4.61 ± 0.87	2.75 ± 0.66	0.86 ± 0.23
bn110217591	1.42E-06 ± 4.50E-08	3.23 ± 1.24	3.23 ± 0.31	1.15 ± 0.18
bn110220761	2.11E-06 ± 2.62E-08	4.74 ± 1.02	4.04 ± 0.52	3.46 ± 0.22
bn110221244	2.25E-06 ± 3.36E-08	5.65 ± 1.24	4.26 ± 0.54	4.02 ± 0.25
bn110226989	1.90E-06 ± 2.50E-08	4.05 ± 1.19	3.52 ± 0.38	2.46 ± 0.21
bn110227009	1.64E-07 ± 1.01E-08	3.69 ± 0.94	2.85 ± 0.46	1.78 ± 0.22
bn110227229	2.40E-06 ± 3.17E-08	6.42 ± 1.30	5.29 ± 0.61	4.50 ± 0.31
bn110227420	2.42E-06 ± 8.41E-08	5.42 ± 1.13	3.85 ± 0.57	3.50 ± 0.27
bn110228011	5.14E-06 ± 4.99E-08	8.31 ± 1.81	7.12 ± 0.69	5.60 ± 0.33
bn110228792	9.60E-07 ± 2.38E-08	3.72 ± 1.21	2.08 ± 0.49	1.25 ± 0.21
bn110301214	3.59E-05 ± 3.07E-08	130.23 ± 3.85	119.83 ± 1.87	100.73 ± 0.88
bn110302043	3.73E-06 ± 6.04E-08	8.32 ± 1.42	7.08 ± 0.59	6.29 ± 0.29
bn110304071	3.46E-06 ± 8.33E-08	6.73 ± 1.39	6.06 ± 0.70	5.43 ± 0.35
bn110307972	5.75E-07 ± 4.34E-08	5.88 ± 0.98	4.05 ± 0.41	2.32 ± 0.19
bn110311812	1.12E-06 ± 3.22E-08	5.53 ± 1.23	3.91 ± 0.48	3.46 ± 0.26
bn110316139	1.15E-07 ± 3.32E-08	5.16 ± 1.27	3.65 ± 0.49	1.33 ± 0.21
bn110318552	8.15E-06 ± 7.84E-08	13.86 ± 1.17	11.97 ± 0.57	11.02 ± 0.29
bn110319628	1.56E-06 ± 3.05E-08	4.00 ± 1.30	3.03 ± 0.55	2.67 ± 0.24
bn110319815	2.49E-06 ± 8.53E-08	8.12 ± 2.41	5.17 ± 1.01	3.54 ± 0.46
bn110321346	1.12E-06 ± 4.40E-08	2.50 ± 0.82	1.96 ± 0.27	1.47 ± 0.16
bn110322558	3.56E-06 ± 3.47E-08	4.62 ± 0.98	3.41 ± 0.48	2.60 ± 0.22
bn110328520	1.90E-05 ± 8.51E-08	7.51 ± 1.33	6.35 ± 0.51	5.73 ± 0.26
bn110331604	2.64E-07 ± 2.79E-08	4.01 ± 1.30	2.87 ± 0.52	2.20 ± 0.25
bn110401920	1.57E-06 ± 6.43E-08	10.81 ± 1.37	7.41 ± 0.64	3.53 ± 0.25
bn110402009	1.08E-05 ± 1.63E-07	27.83 ± 2.37	15.24 ± 1.05	7.81 ± 0.47
bn110407998	2.64E-05 ± 7.16E-08	22.20 ± 1.25	20.83 ± 0.63	18.13 ± 0.31
bn110409179	3.28E-07 ± 1.06E-08	9.65 ± 0.96	5.46 ± 0.45	1.20 ± 0.19
bn110410133	6.41E-06 ± 1.84E-08	4.71 ± 1.03	4.20 ± 0.34	3.08 ± 0.22
bn110410772	9.52E-07 ± 3.03E-08	5.43 ± 1.17	4.56 ± 0.40	3.23 ± 0.21

Table 7—Continued

Trigger ID	Fluence (erg cm <sup>-2</sup> )	PF64 (ph cm <sup>-2</sup> s <sup>-1</sup> )	PF256 (ph cm <sup>-2</sup> s <sup>-1</sup> )	PF1024 (ph cm <sup>-2</sup> s <sup>-1</sup> )
bn110411629	3.58E-06 ± 6.88E-08	7.82 ± 2.85	6.15 ± 0.96	4.80 ± 0.43
bn110412315	2.55E-06 ± 2.99E-08	4.44 ± 0.82	3.70 ± 0.46	2.75 ± 0.22
bn110413938	1.10E-06 ± 3.16E-08	3.26 ± 1.23	2.35 ± 0.34	1.14 ± 0.22
bn110415541	4.72E-06 ± 5.51E-08	7.15 ± 1.71	5.42 ± 0.71	4.88 ± 0.33
bn110420946	2.44E-07 ± 2.73E-08	12.01 ± 1.78	4.86 ± 0.68	1.29 ± 0.30
bn110421757	1.06E-05 ± 7.77E-08	8.77 ± 1.19	7.95 ± 0.58	7.22 ± 0.29
bn110422029	8.06E-08 ± 1.92E-08	6.81 ± 1.09	3.53 ± 0.48	1.44 ± 0.19
bn110424758	4.65E-08 ± 9.32E-09	4.84 ± 1.01	2.09 ± 0.36	0.44 ± 0.15
bn110426629	3.31E-05 ± 1.15E-07	8.61 ± 1.74	7.41 ± 0.66	5.85 ± 0.28
bn110428338	1.58E-05 ± 6.66E-08	13.67 ± 1.59	11.04 ± 0.71	9.95 ± 0.35
bn110428388	2.16E-05 ± 1.54E-07	32.23 ± 1.54	29.27 ± 0.71	26.76 ± 0.35
bn110430375	7.07E-06 ± 3.85E-08	7.76 ± 1.30	6.84 ± 0.60	6.01 ± 0.28
bn110503145	1.87E-06 ± 3.68E-08	6.96 ± 1.31	6.21 ± 0.61	5.41 ± 0.27
bn110505203	2.03E-06 ± 6.94E-08	14.62 ± 1.67	11.78 ± 0.74	10.16 ± 0.35
bn110509142	3.76E-06 ± 4.31E-08	5.75 ± 1.45	3.60 ± 0.57	2.44 ± 0.31
bn110509475	5.26E-07 ± 1.46E-08	9.94 ± 0.99	7.21 ± 0.41	3.54 ± 0.19
bn110511616	4.89E-07 ± 4.25E-08	4.57 ± 1.13	2.87 ± 0.39	2.27 ± 0.22
bn110517453	9.89E-08 ± 2.34E-08	5.78 ± 1.04	3.35 ± 0.47	1.09 ± 0.20
bn110517573	8.74E-06 ± 3.80E-08	12.12 ± 1.41	10.71 ± 0.72	8.20 ± 0.34
bn110517902	8.74E-06 ± 3.80E-08	12.12 ± 1.41	10.71 ± 0.72	8.20 ± 0.34
bn110520302	1.04E-06 ± 5.11E-08	5.70 ± 1.98	3.44 ± 0.69	2.88 ± 0.35
bn110521478	3.61E-06 ± 8.07E-08	20.00 ± 2.63	18.30 ± 1.31	15.74 ± 0.63
bn110522256	2.11E-06 ± 3.16E-08	4.24 ± 1.20	3.33 ± 0.47	1.91 ± 0.20
bn110522296	1.06E-06 ± 4.06E-08	3.01 ± 0.79	2.04 ± 0.38	1.70 ± 0.18
bn110522633	3.04E-06 ± 2.48E-08	5.30 ± 1.18	4.71 ± 0.47	4.16 ± 0.22
bn110523344	2.23E-06 ± 4.55E-08	5.98 ± 1.42	5.29 ± 0.64	4.68 ± 0.29
bn110526715	8.46E-07 ± 2.96E-08	11.68 ± 1.50	9.62 ± 0.52	4.78 ± 0.28
bn110528624	4.60E-06 ± 5.73E-08	4.63 ± 1.24	2.87 ± 0.38	2.31 ± 0.23
bn110529034	1.47E-06 ± 1.33E-08	39.82 ± 1.64	22.94 ± 0.68	7.66 ± 0.24
bn110529262	6.78E-06 ± 4.31E-08	18.51 ± 1.65	16.50 ± 0.79	11.72 ± 0.38
bn110529811	3.33E-06 ± 2.98E-08	3.66 ± 0.85	2.98 ± 0.36	2.28 ± 0.19
bn110531448	2.29E-06 ± 2.52E-08	3.79 ± 1.05	2.96 ± 0.30	2.30 ± 0.18

Table 7—Continued

Trigger ID	Fluence (erg cm <sup>-2</sup> )	PF64 (ph cm <sup>-2</sup> s <sup>-1</sup> )	PF256 (ph cm <sup>-2</sup> s <sup>-1</sup> )	PF1024 (ph cm <sup>-2</sup> s <sup>-1</sup> )
bn110601681	1.24E-05 ± 1.30E-07	4.77 ± 0.88	3.76 ± 0.37	3.25 ± 0.20
bn110605183	1.93E-05 ± 5.59E-08	10.04 ± 1.51	9.16 ± 0.76	8.22 ± 0.37
bn110605780	4.39E-07 ± 2.12E-08	5.04 ± 0.99	3.58 ± 0.51	3.09 ± 0.27
bn110609185	5.05E-07 ± 3.45E-08	3.52 ± 1.08	3.05 ± 0.36	2.14 ± 0.21
bn110609425	2.35E-06 ± 4.23E-08	4.72 ± 1.09	3.66 ± 0.43	2.72 ± 0.23
bn110610640	8.02E-06 ± 6.15E-08	7.87 ± 1.10	6.78 ± 0.54	5.82 ± 0.26
bn110613631	3.26E-06 ± 3.73E-08	4.41 ± 1.37	2.63 ± 0.49	1.96 ± 0.24
bn110616648	1.29E-06 ± 5.09E-08	6.52 ± 1.79	5.06 ± 0.83	3.35 ± 0.35
bn110618366	6.24E-05 ± 1.70E-07	15.26 ± 3.62	13.20 ± 0.81	9.61 ± 0.60
bn110618760	9.78E-06 ± 5.44E-08	5.77 ± 1.42	4.82 ± 0.53	3.57 ± 0.27
bn110622158	5.43E-05 ± 1.54E-07	19.68 ± 1.69	18.25 ± 0.79	17.51 ± 0.39
bn110624906	2.78E-07 ± 3.09E-08	3.45 ± 1.08	2.69 ± 0.54	1.97 ± 0.24
bn110625579	3.52E-06 ± 3.71E-08	4.48 ± 1.11	3.41 ± 0.44	2.77 ± 0.24
bn110625881	6.55E-05 ± 1.01E-07	84.28 ± 2.79	81.82 ± 1.38	76.97 ± 0.67
bn110626448	1.16E-06 ± 2.92E-08	7.18 ± 1.35	5.84 ± 0.58	5.26 ± 0.29
bn110629174	2.43E-06 ± 2.37E-08	9.01 ± 1.00	7.87 ± 0.52	5.03 ± 0.24
bn110702187	7.99E-06 ± 1.33E-07	8.77 ± 1.77	6.26 ± 0.79	5.60 ± 0.35
bn110703557	9.74E-07 ± 2.23E-08	8.30 ± 1.27	7.38 ± 0.59	5.75 ± 0.28
bn110705151	2.85E-06 ± 2.51E-08	40.70 ± 1.69	28.72 ± 0.75	7.98 ± 0.28
bn110705364	8.94E-06 ± 9.97E-08	7.62 ± 1.05	7.09 ± 0.53	6.25 ± 0.25
bn110706202	3.27E-06 ± 9.71E-08	4.01 ± 1.11	3.44 ± 0.32	2.60 ± 0.18
bn110706477	6.72E-06 ± 7.07E-08	4.43 ± 1.11	3.80 ± 0.47	3.31 ± 0.22
bn110706728	2.34E-06 ± 7.37E-08	8.89 ± 1.40	6.23 ± 0.64	4.59 ± 0.27
bn110706977	6.55E-06 ± 4.47E-08	12.88 ± 1.83	11.47 ± 0.78	9.82 ± 0.30
bn110709463	6.91E-06 ± 4.08E-08	18.94 ± 1.70	17.89 ± 0.86	15.70 ± 0.41
bn110709642	3.69E-05 ± 6.19E-08	15.14 ± 2.01	12.71 ± 0.89	11.13 ± 0.48
bn110709862	7.97E-07 ± 2.38E-08	5.87 ± 1.48	4.85 ± 0.49	3.77 ± 0.29
bn110710954	9.32E-06 ± 4.19E-08	17.63 ± 1.53	16.22 ± 0.78	12.25 ± 0.41
bn110716018	1.35E-06 ± 3.44E-08	15.17 ± 1.54	13.45 ± 0.79	7.03 ± 0.32
bn110717180	2.51E-07 ± 1.18E-08	18.53 ± 1.84	5.98 ± 0.62	1.52 ± 0.23
bn110717319	4.25E-05 ± 5.20E-08	17.41 ± 1.61	17.13 ± 0.81	16.00 ± 0.39
bn110720177	5.63E-06 ± 2.80E-08	7.39 ± 1.34	6.33 ± 0.56	5.51 ± 0.27

Table 7—Continued

Trigger ID	Fluence (erg cm <sup>-2</sup> )	PF64 (ph cm <sup>-2</sup> s <sup>-1</sup> )	PF256 (ph cm <sup>-2</sup> s <sup>-1</sup> )	PF1024 (ph cm <sup>-2</sup> s <sup>-1</sup> )
bn110721200	3.70E-05 ± 3.85E-08	34.32 ± 1.55	32.24 ± 0.77	30.96 ± 0.38
bn110722694	2.11E-05 ± 1.15E-07	7.78 ± 1.32	6.14 ± 0.63	5.31 ± 0.29
bn110722710	1.80E-06 ± 6.68E-08	5.52 ± 1.61	4.16 ± 0.67	3.64 ± 0.29
bn110725236	1.31E-06 ± 2.93E-08	5.56 ± 1.10	4.95 ± 0.53	4.10 ± 0.25
bn110726211	4.36E-06 ± 9.67E-08	6.03 ± 1.44	5.63 ± 0.56	4.42 ± 0.29
bn110728056	3.27E-07 ± 6.30E-08	4.76 ± 0.98	3.19 ± 0.42	2.02 ± 0.20
bn110729142	4.64E-05 ± 4.78E-08	9.69 ± 1.28	7.95 ± 0.62	7.32 ± 0.30
bn110730008	1.26E-06 ± 3.69E-08	3.67 ± 1.41	2.82 ± 0.34	1.79 ± 0.21
bn110730660	7.97E-06 ± 9.20E-08	8.90 ± 1.50	7.73 ± 0.75	7.13 ± 0.38
bn110731465	2.29E-05 ± 5.70E-08	29.11 ± 2.11	26.69 ± 0.99	20.87 ± 0.46
bn110801335	3.54E-07 ± 5.40E-08	14.74 ± 3.11	10.83 ± 1.39	4.96 ± 0.57
bn110803783	2.95E-06 ± 5.05E-08	4.76 ± 1.02	3.05 ± 0.58	2.16 ± 0.18
bn110806934	7.19E-06 ± 2.82E-08	7.89 ± 1.11	6.80 ± 0.56	6.38 ± 0.27
bn110809461	3.91E-06 ± 9.55E-08	8.84 ± 1.51	7.70 ± 0.74	5.85 ± 0.34
bn110812899	1.17E-06 ± 2.18E-08	5.28 ± 1.22	5.14 ± 0.45	4.14 ± 0.25
bn110813237	4.77E-06 ± 3.69E-08	12.09 ± 1.57	10.89 ± 0.74	9.54 ± 0.33
bn110817191	1.19E-05 ± 4.49E-08	27.99 ± 1.69	26.15 ± 0.83	24.13 ± 0.40
bn110818860	5.15E-06 ± 3.31E-08	4.88 ± 1.50	3.88 ± 0.54	2.79 ± 0.27
bn110819665	3.04E-06 ± 8.23E-08	18.56 ± 3.79	15.93 ± 1.74	13.44 ± 0.81
bn110820476	7.98E-07 ± 4.37E-08	4.12 ± 1.10	3.52 ± 0.50	3.24 ± 0.25
bn110824009	1.48E-05 ± 1.54E-07	27.92 ± 1.27	24.46 ± 0.69	15.62 ± 0.28
bn110825102	4.61E-05 ± 1.11E-07	78.84 ± 1.88	65.67 ± 0.92	53.70 ± 0.44
bn110825265	2.18E-06 ± 4.63E-08	2.97 ± 0.99	2.18 ± 0.44	1.90 ± 0.20
bn110828575	2.72E-06 ± 3.70E-08	3.78 ± 1.31	2.99 ± 0.45	2.14 ± 0.23
bn110831282	4.42E-06 ± 3.12E-08	6.22 ± 1.23	5.09 ± 0.57	4.39 ± 0.26
bn110901230	1.51E-06 ± 5.75E-08	4.44 ± 1.37	3.59 ± 0.32	2.56 ± 0.25
bn110903009	1.52E-05 ± 5.22E-08	55.54 ± 3.71	52.85 ± 1.82	48.30 ± 0.89
bn110903111	3.47E-05 ± 7.61E-08	7.08 ± 0.89	5.97 ± 0.50	5.03 ± 0.23
bn110904124	1.11E-05 ± 6.85E-08	9.77 ± 1.37	9.28 ± 0.64	7.84 ± 0.34
bn110904163	3.46E-06 ± 2.68E-08	5.85 ± 0.92	4.53 ± 0.52	3.98 ± 0.24
bn110904531	3.81E-06 ± 4.95E-08	9.08 ± 1.62	9.08 ± 0.40	7.27 ± 0.18
bn110906302	3.80E-06 ± 3.14E-08	7.80 ± 1.37	5.90 ± 0.67	5.43 ± 0.32

Table 7—Continued

Trigger ID	Fluence (erg cm <sup>-2</sup> )	PF64 (ph cm <sup>-2</sup> s <sup>-1</sup> )	PF256 (ph cm <sup>-2</sup> s <sup>-1</sup> )	PF1024 (ph cm <sup>-2</sup> s <sup>-1</sup> )
bn110909116	4.92E-05 ± 1.44E-05	3054.10 ± 4475.63	765.01 ± 1118.91	200.58 ± 279.73
bn110911071	5.94E-07 ± 8.35E-08	6.69 ± 3.06	3.75 ± 0.91	2.38 ± 0.41
bn110916016	4.23E-07 ± 6.49E-08	3.94 ± 0.95	2.79 ± 0.47	1.96 ± 0.22
bn110919634	2.68E-05 ± 1.81E-07	14.38 ± 1.53	13.07 ± 0.79	12.27 ± 0.38
bn110920338	2.69E-06 ± 2.05E-08	5.85 ± 1.30	5.33 ± 0.54	4.20 ± 0.27
bn110920546	1.72E-04 ± 2.41E-07	16.96 ± 1.37	14.95 ± 0.71	13.74 ± 0.35
bn110921444	5.90E-06 ± 1.19E-07	3.76 ± 0.86	2.73 ± 0.35	2.08 ± 0.18
bn110921577	3.36E-06 ± 5.59E-08	4.62 ± 1.12	3.09 ± 0.61	2.72 ± 0.27
bn110921912	3.63E-05 ± 7.90E-08	41.36 ± 2.43	37.69 ± 1.18	32.35 ± 0.57
bn110923835	4.09E-06 ± 7.85E-08	5.53 ± 0.94	4.37 ± 0.49	3.76 ± 0.25
bn110926107	1.20E-05 ± 7.09E-08	9.48 ± 1.50	7.02 ± 0.70	6.18 ± 0.33
bn110928180	1.42E-05 ± 9.36E-08	6.50 ± 0.89	5.15 ± 0.41	4.20 ± 0.19
bn110929187	2.20E-06 ± 1.97E-08	7.18 ± 0.98	6.02 ± 0.58	5.56 ± 0.28
bn110930564	6.23E-06 ± 1.30E-07	6.52 ± 2.28	4.63 ± 0.79	2.62 ± 0.34
bn111001804	1.90E-07 ± 1.24E-08	4.18 ± 0.70	2.74 ± 0.35	0.76 ± 0.15
bn111003465	2.10E-05 ± 5.99E-08	21.23 ± 1.33	20.50 ± 0.66	18.44 ± 0.32
bn111005398	2.05E-06 ± 3.06E-08	3.48 ± 0.98	2.74 ± 0.42	1.91 ± 0.18
bn111008992	3.03E-06 ± 2.66E-08	3.81 ± 1.27	3.44 ± 0.38	1.84 ± 0.21
bn111009282	1.20E-05 ± 5.13E-08	19.70 ± 1.71	17.91 ± 0.84	16.86 ± 0.40
bn111010237	1.10E-05 ± 1.57E-07	5.03 ± 1.32	3.63 ± 0.64	2.33 ± 0.28
bn111010660	8.71E-07 ± 3.34E-08	6.41 ± 1.31	4.56 ± 0.71	3.80 ± 0.32
bn111010709	1.26E-05 ± 5.25E-08	6.52 ± 1.22	6.08 ± 0.32	5.11 ± 0.20
bn111010899	9.59E-07 ± 5.17E-08	3.79 ± 1.13	3.17 ± 0.52	2.13 ± 0.22
bn111011094	4.20E-07 ± 1.98E-08	14.89 ± 1.17	8.88 ± 0.54	2.61 ± 0.19
bn111012456	1.65E-05 ± 8.26E-08	16.68 ± 2.19	15.01 ± 1.07	13.03 ± 0.51
bn111012811	3.29E-06 ± 3.23E-08	23.45 ± 1.47	21.56 ± 0.68	14.82 ± 0.31
bn111015427	2.42E-05 ± 3.99E-07	11.33 ± 1.91	10.07 ± 0.94	9.15 ± 0.46
bn111017657	2.07E-05 ± 5.64E-08	19.59 ± 1.27	17.95 ± 0.60	16.90 ± 0.30
bn111018595	1.11E-06 ± 5.33E-08	5.23 ± 1.27	3.98 ± 0.55	3.05 ± 0.26
bn111018785	1.76E-06 ± 3.37E-08	4.14 ± 1.19	2.15 ± 0.46	1.44 ± 0.22
bn111022854	1.26E-07 ± 1.21E-08	6.11 ± 1.04	3.88 ± 0.49	1.09 ± 0.20
bn111024722	1.58E-05 ± 1.41E-07	13.53 ± 1.54	12.46 ± 0.73	9.47 ± 0.34



Table 7—Continued

Trigger ID	Fluence (erg cm <sup>-2</sup> )	PF64 (ph cm <sup>-2</sup> s <sup>-1</sup> )	PF256 (ph cm <sup>-2</sup> s <sup>-1</sup> )	PF1024 (ph cm <sup>-2</sup> s <sup>-1</sup> )
bn111024896	2.32E-07 ± 1.52E-08	6.15 ± 1.17	4.51 ± 0.53	1.79 ± 0.23
bn111025078	2.98E-06 ± 3.13E-08	4.79 ± 1.39	2.52 ± 0.47	1.82 ± 0.24
bn111103441	2.98E-06 ± 7.85E-08	7.48 ± 1.31	6.47 ± 0.65	5.41 ± 0.30
bn111103948	2.82E-07 ± 5.32E-08	8.99 ± 1.45	6.50 ± 0.61	2.42 ± 0.23
bn111105457	1.68E-06 ± 4.36E-08	3.94 ± 0.97	3.55 ± 0.33	2.16 ± 0.19
bn111107035	9.07E-07 ± 3.48E-08	4.84 ± 1.88	3.85 ± 0.38	2.28 ± 0.35
bn111107076	1.04E-05 ± 5.91E-08	4.66 ± 0.98	3.52 ± 0.45	3.03 ± 0.21
bn111109453	3.05E-07 ± 3.23E-08	4.03 ± 1.40	2.74 ± 0.43	1.95 ± 0.23
bn111109873	6.69E-06 ± 5.40E-07	27.94 ± 11.41	15.59 ± 3.42	11.56 ± 1.55
bn111112908	7.67E-07 ± 2.08E-08	16.04 ± 0.99	9.91 ± 0.51	3.02 ± 0.20
bn111113410	3.10E-06 ± 6.95E-08	9.12 ± 1.36	8.16 ± 0.58	7.10 ± 0.29
bn111114233	1.11E-06 ± 2.60E-08	3.80 ± 1.10	3.42 ± 0.28	2.51 ± 0.17
bn111117510	8.26E-07 ± 2.31E-08	10.89 ± 1.06	7.43 ± 0.36	3.52 ± 0.19
bn111117526	1.42E-06 ± 2.49E-08	3.37 ± 0.89	2.09 ± 0.36	1.49 ± 0.19
bn111120556	6.73E-06 ± 8.42E-08	6.09 ± 1.39	5.95 ± 0.49	4.86 ± 0.25
bn111124308	6.26E-07 ± 2.19E-08	3.19 ± 0.90	1.94 ± 0.41	1.54 ± 0.18
bn111127810	8.64E-06 ± 5.18E-08	22.83 ± 2.09	21.49 ± 1.03	18.83 ± 0.49
bn111201599	1.86E-06 ± 6.92E-08	3.32 ± 0.94	2.56 ± 0.39	1.42 ± 0.18
bn111203054	4.65E-06 ± 4.62E-08	9.05 ± 1.24	7.49 ± 0.60	6.37 ± 0.29
bn111203609	6.95E-07 ± 4.39E-08	3.66 ± 1.11	2.14 ± 0.44	1.31 ± 0.17
bn111207512	2.62E-07 ± 2.66E-08	3.71 ± 0.77	1.84 ± 0.39	1.14 ± 0.18
bn111208353	3.26E-06 ± 3.87E-08	4.38 ± 1.15	2.75 ± 0.39	2.49 ± 0.19
bn111216389	4.17E-05 ± 9.73E-08	15.85 ± 1.83	12.67 ± 0.87	10.60 ± 0.42
bn111220486	5.36E-05 ± 2.22E-07	44.25 ± 1.70	38.01 ± 0.83	28.97 ± 0.39
bn111221739	3.06E-06 ± 5.72E-08	24.55 ± 1.90	20.68 ± 0.77	10.07 ± 0.38
bn111222619	4.84E-06 ± 4.14E-08	60.16 ± 3.39	44.42 ± 1.45	14.26 ± 0.54
bn111226795	1.15E-05 ± 1.39E-07	4.98 ± 1.10	3.82 ± 0.44	3.37 ± 0.21
bn111228453	2.75E-06 ± 4.27E-08	23.80 ± 1.95	22.40 ± 0.95	20.98 ± 0.44
bn111228657	1.81E-05 ± 5.79E-08	27.58 ± 1.74	24.93 ± 0.89	20.81 ± 0.42
bn111230683	2.90E-06 ± 5.01E-08	8.62 ± 2.11	6.80 ± 0.85	5.49 ± 0.41
bn111230819	3.51E-06 ± 3.95E-08	8.83 ± 1.30	7.46 ± 0.58	5.44 ± 0.27
bn120101354	1.09E-07 ± 1.39E-08	7.44 ± 0.97	3.98 ± 0.44	1.01 ± 0.17

Table 7—Continued

Trigger ID	Fluence (erg cm <sup>-2</sup> )	PF64 (ph cm <sup>-2</sup> s <sup>-1</sup> )	PF256 (ph cm <sup>-2</sup> s <sup>-1</sup> )	PF1024 (ph cm <sup>-2</sup> s <sup>-1</sup> )
bn120102095	1.34E-05 ± 4.39E-08	22.82 ± 1.57	21.31 ± 0.78	19.04 ± 0.39
bn120102416	2.55E-06 ± 5.74E-08	5.59 ± 1.18	4.80 ± 0.53	4.34 ± 0.29
bn120105584	1.47E-06 ± 3.54E-08	4.57 ± 1.24	3.54 ± 0.54	2.60 ± 0.25
bn120107384	6.53E-06 ± 4.44E-08	8.53 ± 1.10	6.78 ± 0.51	5.50 ± 0.24
bn120109824	1.92E-06 ± 4.17E-08	6.51 ± 1.96	3.58 ± 0.65	2.55 ± 0.39
bn120111051	3.97E-06 ± 5.63E-08	4.19 ± 0.96	2.63 ± 0.45	2.00 ± 0.21
bn120114433	1.49E-07 ± 2.64E-08	3.78 ± 1.06	1.76 ± 0.44	1.10 ± 0.19
bn120114681	2.39E-06 ± 4.20E-08	5.87 ± 1.73	3.36 ± 0.49	2.45 ± 0.29
bn120118709	2.66E-06 ± 4.67E-08	5.21 ± 1.20	4.08 ± 0.48	2.83 ± 0.23
bn120118898	1.62E-06 ± 3.39E-08	13.42 ± 1.31	13.01 ± 0.64	9.00 ± 0.29
bn120119170	3.87E-05 ± 1.36E-07	22.37 ± 1.71	18.85 ± 0.80	16.86 ± 0.39
bn120119229	5.94E-06 ± 3.53E-08	5.36 ± 0.95	5.23 ± 0.40	4.34 ± 0.22
bn120119354	2.61E-06 ± 4.89E-08	4.91 ± 1.25	4.86 ± 0.49	3.80 ± 0.23
bn120120432	1.50E-06 ± 3.35E-08	3.41 ± 1.09	2.63 ± 0.35	1.41 ± 0.21
bn120121101	1.95E-06 ± 3.02E-08	4.21 ± 0.91	3.60 ± 0.45	2.66 ± 0.21
bn120121251	1.15E-05 ± 6.65E-08	9.06 ± 1.55	8.87 ± 0.54	7.10 ± 0.29
bn120122300	2.60E-06 ± 4.84E-08	5.01 ± 1.27	3.53 ± 0.54	3.05 ± 0.24
bn120129312	8.93E-08 ± 1.25E-08	3.32 ± 1.02	2.37 ± 0.49	0.96 ± 0.21
bn120129580	5.45E-05 ± 7.12E-08	212.26 ± 4.67	206.42 ± 2.29	158.63 ± 1.04
bn120130699	6.61E-06 ± 1.41E-07	12.29 ± 1.89	10.60 ± 0.89	8.16 ± 0.41
bn120130906	5.25E-07 ± 3.08E-08	3.84 ± 0.90	3.13 ± 0.46	2.29 ± 0.22
bn120130938	1.04E-05 ± 1.63E-07	8.96 ± 1.55	6.75 ± 0.69	6.19 ± 0.35
bn120203812	1.10E-06 ± 2.89E-08	5.98 ± 1.92	5.15 ± 0.76	3.51 ± 0.35
bn120204054	9.60E-05 ± 8.71E-08	36.54 ± 1.76	35.21 ± 0.93	33.57 ± 0.42
bn120205285	1.11E-07 ± 9.86E-09	2.28 ± 0.62	1.96 ± 0.33	1.08 ± 0.15
bn120206949	5.88E-06 ± 6.31E-08	21.93 ± 1.86	20.15 ± 0.89	17.15 ± 0.43
bn120210650	6.45E-07 ± 1.51E-08	11.07 ± 1.26	10.85 ± 0.44	7.04 ± 0.20
bn120212353	5.09E-08 ± 1.22E-08	5.31 ± 1.15	3.00 ± 0.47	1.22 ± 0.19
bn120212383	1.15E-06 ± 2.59E-08	4.86 ± 1.08	3.98 ± 0.47	3.29 ± 0.22
bn120213606	2.68E-06 ± 5.46E-08	9.38 ± 1.07	7.42 ± 0.53	6.61 ± 0.26
bn120217808	1.75E-06 ± 7.76E-08	12.11 ± 1.93	10.59 ± 0.87	8.94 ± 0.43
bn120217904	4.86E-06 ± 4.05E-08	45.65 ± 2.11	41.79 ± 1.03	24.39 ± 0.43

Table 7—Continued

Trigger ID	Fluence (erg cm <sup>-2</sup> )	PF64 (ph cm <sup>-2</sup> s <sup>-1</sup> )	PF256 (ph cm <sup>-2</sup> s <sup>-1</sup> )	PF1024 (ph cm <sup>-2</sup> s <sup>-1</sup> )
bn120218276	1.14E-05 ± 8.01E-08	4.59 ± 1.37	3.09 ± 0.61	2.52 ± 0.26
bn120219563	5.58E-07 ± 1.40E-08	2.60 ± 0.83	2.41 ± 0.29	1.57 ± 0.20
bn120220210	1.24E-06 ± 2.48E-08	3.51 ± 1.06	2.25 ± 0.45	1.70 ± 0.22
bn120222021	1.73E-06 ± 2.36E-08	24.02 ± 1.71	22.09 ± 0.84	15.92 ± 0.39
bn120222119	2.45E-06 ± 6.21E-08	5.00 ± 1.11	3.16 ± 0.58	2.10 ± 0.24
bn120223933	3.88E-06 ± 8.80E-08	6.42 ± 1.17	4.27 ± 0.45	3.92 ± 0.23
bn120224282	9.12E-06 ± 2.05E-07	7.27 ± 1.31	6.48 ± 0.55	5.17 ± 0.28
bn120224898	2.60E-06 ± 5.63E-08	4.34 ± 1.12	3.14 ± 0.41	2.55 ± 0.21
bn120226447	5.85E-06 ± 7.85E-08	16.88 ± 3.10	8.72 ± 1.17	7.07 ± 0.49
bn120226871	5.20E-05 ± 9.14E-08	14.73 ± 1.43	12.41 ± 0.67	11.43 ± 0.33
bn120227391	3.74E-06 ± 8.33E-08	7.96 ± 1.99	6.44 ± 0.86	3.77 ± 0.41
bn120227725	2.19E-05 ± 1.04E-07	29.11 ± 5.05	21.20 ± 2.02	18.47 ± 0.91
bn120302080	2.53E-06 ± 5.51E-08	4.81 ± 1.51	3.60 ± 0.45	2.29 ± 0.29
bn120302722	1.19E-07 ± 1.62E-08	6.20 ± 1.49	4.35 ± 0.65	1.96 ± 0.28
bn120304061	5.05E-06 ± 1.99E-08	21.19 ± 1.54	21.19 ± 0.38	18.81 ± 0.29
bn120304248	1.14E-05 ± 4.07E-08	23.35 ± 1.97	16.78 ± 0.83	10.33 ± 0.37
bn120308588	6.72E-06 ± 6.27E-08	19.91 ± 2.39	18.40 ± 0.85	15.91 ± 0.50
bn120312671	8.29E-07 ± 2.72E-08	4.08 ± 1.10	3.10 ± 0.52	1.97 ± 0.24
bn120314412	1.64E-07 ± 3.14E-08	3.29 ± 0.92	3.05 ± 0.41	1.77 ± 0.18
bn120316008	1.63E-05 ± 3.08E-08	12.22 ± 1.31	10.54 ± 0.55	6.83 ± 0.30
bn120319983	2.42E-06 ± 3.96E-08	3.57 ± 1.05	3.03 ± 0.42	1.86 ± 0.19
bn120323162	1.41E-06 ± 2.00E-08	8.54 ± 1.16	6.76 ± 0.54	5.37 ± 0.27
bn120323507	1.08E-05 ± 1.94E-08	574.71 ± 7.79	356.06 ± 3.04	117.92 ± 0.87
bn120326056	3.26E-06 ± 4.84E-08	10.49 ± 1.26	8.62 ± 0.59	7.74 ± 0.28
bn120327418	1.14E-07 ± 3.65E-08	7.94 ± 1.76	5.08 ± 0.77	1.71 ± 0.29
bn120328268	7.50E-05 ± 1.66E-07	38.00 ± 1.68	36.95 ± 0.82	33.58 ± 0.40
bn120331055	6.77E-07 ± 5.20E-08	40.83 ± 3.54	16.32 ± 1.30	4.20 ± 0.42
bn120402669	3.75E-06 ± 2.61E-08	20.21 ± 2.13	18.39 ± 0.99	16.82 ± 0.47
bn120403857	2.40E-07 ± 2.05E-08	2.61 ± 1.03	2.25 ± 0.25	1.75 ± 0.24
bn120410585	2.91E-07 ± 2.11E-08	8.76 ± 1.07	5.44 ± 0.47	1.46 ± 0.18
bn120411925	1.46E-06 ± 2.75E-08	4.24 ± 1.13	2.85 ± 0.41	1.74 ± 0.22
bn120412055	1.25E-06 ± 8.58E-08	3.90 ± 1.07	2.78 ± 0.47	2.23 ± 0.21

Table 7—Continued

Trigger ID	Fluence (erg cm <sup>-2</sup> )	PF64 (ph cm <sup>-2</sup> s <sup>-1</sup> )	PF256 (ph cm <sup>-2</sup> s <sup>-1</sup> )	PF1024 (ph cm <sup>-2</sup> s <sup>-1</sup> )
bn120412920	7.03E-06 ± 5.27E-08	9.52 ± 1.42	8.25 ± 0.66	7.70 ± 0.33
bn120415076	2.23E-06 ± 5.69E-08	5.48 ± 1.00	4.80 ± 0.53	4.47 ± 0.26
bn120415891	1.30E-07 ± 9.03E-09	4.57 ± 1.11	4.56 ± 0.37	1.99 ± 0.18
bn120415958	2.31E-06 ± 5.47E-08	9.74 ± 2.34	6.93 ± 1.06	5.97 ± 0.50
bn120420249	2.88E-06 ± 5.99E-08	6.53 ± 1.35	5.36 ± 0.58	4.55 ± 0.29
bn120420858	4.33E-05 ± 2.14E-07	6.83 ± 1.42	6.09 ± 0.72	4.81 ± 0.33
bn120426090	2.03E-05 ± 8.69E-08	87.96 ± 3.24	84.66 ± 1.60	77.61 ± 0.77
bn120426585	3.66E-06 ± 4.17E-08	5.36 ± 1.21	3.40 ± 0.38	2.35 ± 0.20
bn120427054	7.42E-06 ± 5.91E-08	18.49 ± 1.66	16.43 ± 0.78	14.78 ± 0.37
bn120427153	6.81E-07 ± 3.74E-08	3.07 ± 1.06	2.67 ± 0.45	1.71 ± 0.22
bn120429003	2.79E-07 ± 2.36E-08	5.18 ± 1.11	4.07 ± 0.47	3.10 ± 0.24
bn120429484	2.37E-06 ± 1.75E-08	4.94 ± 0.99	3.42 ± 0.46	3.06 ± 0.22
bn120430980	5.56E-07 ± 2.07E-08	3.01 ± 1.07	2.19 ± 0.45	1.66 ± 0.23
bn120504468	3.36E-06 ± 2.63E-08	5.37 ± 1.12	3.44 ± 0.47	2.44 ± 0.22
bn120504945	1.67E-06 ± 2.71E-08	4.98 ± 1.33	3.09 ± 0.53	2.43 ± 0.24
bn120506128	2.87E-07 ± 2.51E-08	4.03 ± 1.07	2.86 ± 0.48	2.42 ± 0.22
bn120509619	1.55E-07 ± 1.35E-08	3.59 ± 0.85	3.27 ± 0.40	1.51 ± 0.19
bn120510900	6.01E-06 ± 7.63E-08	5.46 ± 1.82	3.95 ± 0.69	2.82 ± 0.31
bn120511638	1.14E-05 ± 9.51E-08	9.92 ± 2.66	6.66 ± 0.97	4.68 ± 0.42
bn120512112	1.24E-05 ± 7.12E-08	8.74 ± 1.11	7.42 ± 0.48	6.93 ± 0.24
bn120513531	1.31E-06 ± 3.78E-08	3.88 ± 1.01	2.94 ± 0.44	1.97 ± 0.20
bn120519721	2.41E-06 ± 2.49E-08	12.72 ± 1.40	9.27 ± 0.51	6.71 ± 0.27
bn120520949	4.41E-07 ± 1.41E-08	1.70 ± 0.35	1.32 ± 0.18	1.06 ± 0.09
bn120521380	3.11E-06 ± 7.23E-08	4.87 ± 1.68	2.37 ± 0.51	1.55 ± 0.23
bn120522361	9.32E-06 ± 5.08E-08	17.02 ± 2.16	16.33 ± 1.08	15.23 ± 0.52
bn120524134	2.53E-07 ± 1.51E-08	17.66 ± 2.02	13.20 ± 1.00	4.52 ± 0.35
bn120526303	1.16E-04 ± 2.28E-07	23.79 ± 5.80	19.76 ± 2.39	15.69 ± 1.10
bn120528442	3.79E-06 ± 4.57E-08	7.41 ± 1.35	6.55 ± 0.44	5.55 ± 0.27
bn120530121	7.17E-06 ± 5.01E-08	7.11 ± 1.53	5.84 ± 0.66	5.09 ± 0.31
bn120531393	9.10E-07 ± 1.79E-08	3.44 ± 1.10	2.28 ± 0.40	1.86 ± 0.21
bn120603439	6.79E-07 ± 2.69E-08	13.70 ± 1.26	9.74 ± 0.57	3.23 ± 0.25
bn120604220	1.23E-06 ± 5.10E-08	6.72 ± 1.23	5.90 ± 0.65	3.52 ± 0.25

Table 7—Continued

Trigger ID	Fluence (erg cm <sup>-2</sup> )	PF64 (ph cm <sup>-2</sup> s <sup>-1</sup> )	PF256 (ph cm <sup>-2</sup> s <sup>-1</sup> )	PF1024 (ph cm <sup>-2</sup> s <sup>-1</sup> )
bn120604343	1.51E-06 ± 7.23E-08	4.11 ± 1.40	3.36 ± 0.25	2.40 ± 0.19
bn120605453	3.25E-06 ± 5.42E-08	12.14 ± 1.68	11.41 ± 0.80	9.65 ± 0.38
bn120608489	4.83E-07 ± 2.14E-08	6.82 ± 1.27	6.21 ± 0.53	3.26 ± 0.25
bn120608777	3.17E-06 ± 4.30E-08	4.99 ± 1.46	4.42 ± 0.48	3.66 ± 0.21
bn120609580	4.20E-07 ± 2.53E-08	5.05 ± 1.11	4.08 ± 0.52	3.68 ± 0.24
bn120611108	4.53E-06 ± 4.85E-08	8.10 ± 1.25	6.63 ± 0.55	4.53 ± 0.24
bn120612680	2.06E-06 ± 2.72E-08	5.47 ± 1.40	3.81 ± 0.55	2.26 ± 0.26
bn120612687	7.05E-07 ± 2.22E-08	11.04 ± 1.23	7.68 ± 0.49	2.58 ± 0.23
bn120616630	2.58E-07 ± 1.16E-08	7.23 ± 1.06	2.85 ± 0.52	0.77 ± 0.23
bn120618128	5.58E-06 ± 6.84E-08	6.14 ± 1.06	4.94 ± 0.41	4.67 ± 0.40
bn120618919	3.63E-06 ± 5.69E-08	8.67 ± 1.94	7.55 ± 0.98	4.45 ± 0.39
bn120619884	4.24E-07 ± 3.02E-08	4.15 ± 0.99	3.38 ± 0.41	1.80 ± 0.18
bn120624309	5.14E-06 ± 7.61E-08	76.84 ± 2.17	57.22 ± 1.06	19.40 ± 0.38
bn120624933	1.92E-04 ± 1.98E-07	21.25 ± 1.26	19.76 ± 0.63	17.67 ± 0.30
bn120625119	1.02E-05 ± 4.25E-08	22.07 ± 1.94	19.94 ± 0.93	18.37 ± 0.46
bn120629565	5.19E-08 ± 1.21E-08	3.39 ± 0.87	2.11 ± 0.36	0.98 ± 0.17
bn120701654	8.36E-08 ± 6.30E-08	6.68 ± 2.13	4.50 ± 1.02	1.76 ± 0.45
bn120702891	1.60E-06 ± 5.81E-08	3.16 ± 1.10	2.31 ± 0.40	1.68 ± 0.21
bn120703417	1.11E-05 ± 5.19E-08	10.06 ± 1.36	8.28 ± 0.63	7.64 ± 0.32
bn120703498	2.60E-06 ± 5.35E-08	4.80 ± 1.37	3.95 ± 0.54	2.54 ± 0.27
bn120703726	8.33E-06 ± 9.83E-08	19.75 ± 1.19	18.73 ± 0.61	17.18 ± 0.30
bn120707800	9.36E-05 ± 7.07E-07	76.70 ± 7.13	67.09 ± 3.37	60.33 ± 1.59
bn120709883	1.37E-05 ± 3.75E-08	18.35 ± 1.41	15.39 ± 0.65	11.05 ± 0.29
bn120710100	5.34E-06 ± 2.12E-08	6.56 ± 1.35	4.64 ± 0.55	3.80 ± 0.25
bn120711115	1.94E-04 ± 2.28E-07	44.67 ± 2.81	31.57 ± 1.22	26.72 ± 0.58
bn120711446	1.86E-06 ± 2.04E-08	3.83 ± 1.18	2.26 ± 0.36	1.28 ± 0.17
bn120712571	4.43E-06 ± 4.51E-08	5.51 ± 1.11	3.84 ± 0.49	3.49 ± 0.22
bn120713226	1.13E-06 ± 1.07E-07	4.39 ± 1.28	2.70 ± 0.51	2.39 ± 0.25
bn120715066	2.20E-06 ± 3.63E-08	4.91 ± 1.14	3.56 ± 0.50	2.61 ± 0.22
bn120716577	5.22E-06 ± 1.25E-07	6.00 ± 1.91	3.81 ± 0.62	3.45 ± 0.32
bn120716712	1.44E-05 ± 4.10E-08	15.02 ± 1.47	13.93 ± 0.72	8.61 ± 0.31
bn120719146	1.35E-05 ± 8.35E-08	8.23 ± 1.48	6.81 ± 0.72	5.80 ± 0.33

Table 7—Continued

Trigger ID	Fluence (erg cm <sup>-2</sup> )	PF64 (ph cm <sup>-2</sup> s <sup>-1</sup> )	PF256 (ph cm <sup>-2</sup> s <sup>-1</sup> )	PF1024 (ph cm <sup>-2</sup> s <sup>-1</sup> )
bn120727354	1.09E-07 ± 2.16E-08	3.04 ± 0.87	1.75 ± 0.42	1.14 ± 0.20
bn120727681	9.23E-06 ± 7.38E-08	18.27 ± 1.66	16.82 ± 0.78	15.74 ± 0.38
bn120728434	1.16E-04 ± 2.54E-06	46.75 ± 2.51	43.49 ± 1.19	40.87 ± 0.58
bn120728934	3.74E-06 ± 4.60E-08	5.88 ± 1.51	4.94 ± 0.35	3.58 ± 0.28
bn120729456	5.08E-06 ± 5.30E-08	6.61 ± 1.28	5.76 ± 0.61	5.20 ± 0.30
bn120801920	3.34E-05 ± 2.63E-07	34.72 ± 30.71	21.06 ± 8.16	15.96 ± 2.58
bn120805706	1.88E-07 ± 1.96E-08	2.72 ± 1.03	2.43 ± 0.35	2.04 ± 0.23
bn120806007	4.90E-06 ± 3.69E-08	9.52 ± 1.26	8.65 ± 0.61	7.72 ± 0.30
bn120811014	2.27E-06 ± 1.94E-08	20.99 ± 1.31	12.05 ± 0.59	4.64 ± 0.24
bn120811649	3.45E-06 ± 2.11E-07	13.67 ± 2.82	11.64 ± 0.70	7.70 ± 0.45
bn120814201	3.83E-07 ± 3.94E-08	10.74 ± 2.64	7.86 ± 1.10	5.15 ± 0.49
bn120814803	1.28E-07 ± 3.48E-08	3.89 ± 0.82	2.70 ± 0.34	0.61 ± 0.14
bn120817057	1.04E-06 ± 2.96E-08	4.05 ± 1.17	2.40 ± 0.46	1.20 ± 0.23
bn120817168	1.79E-06 ± 1.02E-08	47.03 ± 2.08	20.85 ± 0.76	5.80 ± 0.25
bn120819048	1.33E-06 ± 3.27E-08	4.83 ± 1.08	3.23 ± 0.42	2.61 ± 0.22
bn120820585	6.98E-06 ± 2.93E-08	11.99 ± 9.88	11.99 ± 2.47	4.36 ± 0.64
bn120822628	1.09E-07 ± 1.70E-08	3.36 ± 0.92	2.07 ± 0.44	1.29 ± 0.19
bn120824594	5.92E-06 ± 4.16E-08	3.63 ± 1.28	2.39 ± 0.50	1.69 ± 0.21
bn120827216	3.37E-06 ± 9.12E-08	8.11 ± 1.85	6.00 ± 0.69	5.01 ± 0.34
bn120830212	7.52E-06 ± 2.36E-07	14.84 ± 2.02	13.56 ± 0.97	8.66 ± 0.45
bn120830297	3.07E-06 ± 2.72E-08	10.50 ± 0.93	9.01 ± 0.51	7.19 ± 0.24
bn120830702	5.66E-06 ± 3.34E-08	6.57 ± 1.16	5.51 ± 0.53	4.36 ± 0.23
bn120831901	2.51E-07 ± 2.95E-08	9.95 ± 1.35	5.85 ± 0.60	1.93 ± 0.25
bn120905657	1.96E-05 ± 6.32E-07	5.09 ± 1.03	3.82 ± 0.48	3.55 ± 0.23
bn120907017	8.09E-07 ± 4.08E-08	7.56 ± 1.95	6.60 ± 0.91	4.28 ± 0.36
bn120908873	1.27E-05 ± 8.54E-08	9.02 ± 1.74	6.88 ± 0.79	6.20 ± 0.39
bn120908938	5.16E-06 ± 1.12E-07	5.19 ± 2.37	3.55 ± 0.52	2.60 ± 0.24
bn120909070	9.85E-06 ± 1.54E-07	4.38 ± 1.01	3.83 ± 0.34	3.03 ± 0.19
bn120911298	2.34E-06 ± 4.25E-08	6.98 ± 1.60	5.76 ± 0.64	4.31 ± 0.27
bn120913846	1.56E-06 ± 2.56E-08	6.45 ± 1.36	5.24 ± 0.49	4.44 ± 0.24
bn120913997	2.03E-05 ± 7.55E-08	7.39 ± 1.25	6.33 ± 0.61	5.27 ± 0.28
bn120914144	7.35E-07 ± 3.53E-08	4.80 ± 1.11	4.25 ± 0.64	3.58 ± 0.30

Table 7—Continued

Trigger ID	Fluence (erg cm <sup>-2</sup> )	PF64 (ph cm <sup>-2</sup> s <sup>-1</sup> )	PF256 (ph cm <sup>-2</sup> s <sup>-1</sup> )	PF1024 (ph cm <sup>-2</sup> s <sup>-1</sup> )
bn120915000	5.05E-07 ± 2.55E-08	6.04 ± 0.93	4.42 ± 0.48	2.25 ± 0.22
bn120915474	3.83E-07 ± 2.47E-08	3.71 ± 1.11	2.04 ± 0.44	1.24 ± 0.21
bn120916085	7.33E-08 ± 1.04E-08	4.14 ± 0.85	2.47 ± 0.30	1.13 ± 0.15
bn120916173	1.42E-05 ± 5.38E-08	3.57 ± 1.17	12.89 ± 0.68	10.22 ± 0.30
bn120919052	2.07E-05 ± 3.81E-08	13.73 ± 1.29	12.15 ± 0.62	8.99 ± 0.30
bn120919309	1.68E-05 ± 5.24E-08	28.14 ± 1.47	27.57 ± 0.72	24.52 ± 0.34
bn120919816	1.14E-06 ± 2.21E-08	5.68 ± 1.05	4.46 ± 0.48	3.14 ± 0.22
bn120920003	1.00E-06 ± 3.15E-08	3.32 ± 1.00	1.80 ± 0.39	1.14 ± 0.18
bn120921877	2.48E-06 ± 3.10E-08	12.34 ± 1.49	11.75 ± 0.77	10.32 ± 0.39
bn120922939	8.21E-06 ± 1.69E-07	5.63 ± 1.43	4.29 ± 0.70	3.41 ± 0.28
bn120926335	2.48E-06 ± 4.82E-08	18.62 ± 1.35	15.84 ± 0.65	12.04 ± 0.34
bn120926426	4.38E-06 ± 9.17E-08	6.99 ± 1.45	5.21 ± 0.66	3.94 ± 0.30
bn120926753	1.88E-07 ± 2.43E-08	3.49 ± 1.01	1.55 ± 0.49	1.18 ± 0.21
bn121004211	3.79E-07 ± 1.06E-08	5.84 ± 1.24	4.67 ± 0.60	3.48 ± 0.27
bn121005030	3.73E-06 ± 6.35E-08	7.10 ± 1.98	3.80 ± 0.96	2.78 ± 0.34
bn121005340	5.17E-06 ± 5.38E-08	4.37 ± 1.11	3.28 ± 0.35	2.67 ± 0.21
bn121008424	3.92E-07 ± 1.09E-08	4.86 ± 1.34	3.87 ± 0.62	2.73 ± 0.26
bn121011469	3.98E-06 ± 3.63E-08	3.73 ± 1.03	2.70 ± 0.43	2.17 ± 0.20
bn121012724	1.27E-06 ± 1.00E-08	12.41 ± 1.09	10.55 ± 0.52	4.31 ± 0.19
bn121014638	1.30E-07 ± 2.16E-08	3.27 ± 0.99	3.03 ± 0.43	1.38 ± 0.18
bn121019233	5.89E-07 ± 8.36E-08	4.43 ± 1.13	1.97 ± 0.32	1.23 ± 0.20
bn121023322	7.73E-07 ± 3.83E-08	11.02 ± 1.38	8.58 ± 0.63	4.62 ± 0.27
bn121027038	7.39E-06 ± 6.53E-08	7.16 ± 1.95	4.74 ± 0.75	2.92 ± 0.38
bn121028280	9.98E-07 ± 2.83E-08	4.56 ± 1.25	3.47 ± 0.54	2.77 ± 0.25
bn121029350	7.81E-06 ± 5.80E-08	18.10 ± 1.17	16.01 ± 0.58	13.25 ± 0.30
bn121031949	1.45E-05 ± 1.38E-07	16.43 ± 19.41	9.06 ± 2.14	7.44 ± 0.74
bn121102064	5.67E-07 ± 6.23E-08	3.27 ± 1.18	2.54 ± 0.41	1.98 ± 0.24
bn121104627	4.45E-06 ± 1.17E-07	4.83 ± 1.09	3.55 ± 0.51	3.28 ± 0.24
bn121109338	5.34E-06 ± 6.54E-08	6.17 ± 1.67	5.04 ± 0.67	4.30 ± 0.32
bn121112806	2.23E-07 ± 3.22E-08	3.74 ± 0.78	2.43 ± 0.38	1.45 ± 0.17
bn121113544	2.68E-05 ± 7.82E-08	10.81 ± 1.41	9.31 ± 0.69	7.40 ± 0.31
bn121116459	4.92E-07 ± 1.38E-08	7.26 ± 1.28	5.19 ± 0.79	3.33 ± 0.35

Table 7—Continued

Trigger ID	Fluence (erg cm <sup>-2</sup> )	PF64 (ph cm <sup>-2</sup> s <sup>-1</sup> )	PF256 (ph cm <sup>-2</sup> s <sup>-1</sup> )	PF1024 (ph cm <sup>-2</sup> s <sup>-1</sup> )
bn121117018	1.06E-05 ± 6.82E-08	6.20 ± 0.98	5.50 ± 0.52	4.64 ± 0.24
bn121118576	6.71E-06 ± 3.54E-08	29.94 ± 1.51	23.62 ± 0.73	11.60 ± 0.31
bn121119579	8.81E-07 ± 2.36E-08	9.58 ± 1.27	8.01 ± 0.61	5.37 ± 0.28
bn121122564	8.15E-07 ± 1.79E-08	6.13 ± 1.09	5.39 ± 0.52	4.40 ± 0.21
bn121122870	9.07E-06 ± 5.99E-08	7.22 ± 1.23	6.62 ± 0.43	5.12 ± 0.27
bn121122885	3.85E-05 ± 1.55E-07	46.51 ± 8.06	41.88 ± 3.42	36.72 ± 1.65
bn121123421	2.20E-05 ± 7.88E-07	5.55 ± 1.11	4.67 ± 0.51	4.00 ± 0.25
bn121123442	1.42E-05 ± 1.03E-07	8.98 ± 1.33	7.78 ± 0.53	6.36 ± 0.29
bn121124606	5.66E-08 ± 1.42E-08	5.33 ± 1.25	2.83 ± 0.55	0.85 ± 0.22
bn121125356	6.56E-06 ± 6.75E-08	6.57 ± 1.30	5.29 ± 0.55	4.16 ± 0.26
bn121125469	8.57E-07 ± 2.65E-08	3.28 ± 1.01	3.08 ± 0.48	2.24 ± 0.19
bn121127914	1.58E-06 ± 4.98E-08	20.36 ± 1.66	13.63 ± 0.81	4.63 ± 0.30
bn121128212	9.30E-06 ± 1.14E-07	26.18 ± 2.35	22.69 ± 1.13	17.89 ± 0.52
bn121202181	2.01E-06 ± 5.13E-08	4.09 ± 1.34	3.64 ± 0.25	1.95 ± 0.17
bn121205507	1.33E-07 ± 7.51E-09	3.98 ± 1.36	2.53 ± 0.48	1.08 ± 0.22
bn121210081	2.02E-06 ± 6.07E-08	5.26 ± 1.53	3.09 ± 0.36	1.81 ± 0.21
bn121211574	6.41E-07 ± 3.95E-08	4.30 ± 1.07	3.00 ± 0.51	2.37 ± 0.24
bn121211695	1.34E-06 ± 3.65E-08	6.24 ± 1.16	5.01 ± 0.52	4.58 ± 0.24
bn121216419	3.85E-07 ± 2.48E-08	3.50 ± 1.07	2.94 ± 0.44	1.85 ± 0.20
bn121217313	6.77E-06 ± 6.56E-08	5.23 ± 1.24	3.80 ± 0.59	3.36 ± 0.27
bn121220311	4.53E-07 ± 2.78E-08	2.73 ± 0.93	1.75 ± 0.49	1.21 ± 0.19
bn121221916	5.04E-06 ± 4.99E-08	6.01 ± 1.05	4.51 ± 0.35	3.97 ± 0.22
bn121223300	7.02E-06 ± 1.99E-08	9.40 ± 1.07	8.29 ± 0.49	7.74 ± 0.24
bn121225417	6.96E-05 ± 1.91E-07	29.88 ± 1.81	27.92 ± 0.89	23.61 ± 0.41
bn121229533	3.51E-06 ± 3.71E-08	6.09 ± 1.16	4.29 ± 0.46	3.64 ± 0.24
bn121231445	2.94E-06 ± 7.22E-08	5.98 ± 1.25	3.79 ± 0.52	2.79 ± 0.26
bn130104721	5.67E-06 ± 5.63E-08	8.80 ± 1.23	7.77 ± 0.61	6.68 ± 0.29
bn130106829	1.59E-06 ± 4.32E-08	4.54 ± 1.07	3.83 ± 0.50	3.37 ± 0.24
bn130106995	1.54E-05 ± 6.80E-08	10.51 ± 1.80	8.60 ± 0.70	7.37 ± 0.44
bn130109206	2.54E-06 ± 6.78E-08	8.80 ± 1.11	7.85 ± 0.54	6.76 ± 0.26
bn130112286	2.61E-06 ± 4.69E-08	9.64 ± 1.12	8.47 ± 0.54	5.70 ± 0.24
bn130112353	1.24E-06 ± 2.98E-08	8.60 ± 1.17	6.73 ± 0.56	4.42 ± 0.25



Table 7—Continued

Trigger ID	Fluence (erg cm <sup>-2</sup> )	PF64 (ph cm <sup>-2</sup> s <sup>-1</sup> )	PF256 (ph cm <sup>-2</sup> s <sup>-1</sup> )	PF1024 (ph cm <sup>-2</sup> s <sup>-1</sup> )
bn130114019	1.11E-06 ± 7.53E-08	4.92 ± 1.04	4.11 ± 0.51	3.03 ± 0.22
bn130115716	2.72E-06 ± 3.21E-08	5.62 ± 1.10	4.14 ± 0.55	3.44 ± 0.24
bn130116415	9.27E-07 ± 3.48E-08	5.19 ± 1.49	2.83 ± 0.65	1.60 ± 0.25
bn130117087	2.85E-06 ± 3.54E-08	4.29 ± 1.27	2.47 ± 0.45	1.73 ± 0.21
bn130118482	8.28E-07 ± 3.77E-08	3.27 ± 1.04	3.27 ± 0.26	1.47 ± 0.23
bn130121835	4.34E-05 ± 1.11E-07	31.74 ± 2.50	28.96 ± 1.25	22.76 ± 0.59
bn130123843	1.49E-06 ± 3.34E-08	5.71 ± 1.25	4.99 ± 0.59	4.12 ± 0.27
bn130127299	1.02E-06 ± 5.89E-08	3.40 ± 1.14	2.48 ± 0.37	1.67 ± 0.23
bn130127743	2.32E-07 ± 1.13E-08	7.31 ± 0.88	3.64 ± 0.34	0.79 ± 0.12
bn130131511	3.92E-05 ± 7.16E-08	11.41 ± 1.68	9.72 ± 0.77	7.68 ± 0.35
bn130204484	2.81E-07 ± 1.09E-08	9.12 ± 1.02	4.30 ± 0.46	1.12 ± 0.18
bn130206482	7.16E-06 ± 6.08E-08	16.76 ± 1.20	16.12 ± 0.59	14.59 ± 0.29
bn130206817	2.57E-06 ± 7.05E-08	5.72 ± 1.66	3.97 ± 0.64	2.14 ± 0.24
bn130208684	2.25E-06 ± 5.01E-08	3.66 ± 0.90	2.75 ± 0.40	2.06 ± 0.18
bn130209961	6.12E-06 ± 1.87E-08	13.41 ± 1.35	11.63 ± 0.62	7.89 ± 0.28
bn130213905	9.87E-07 ± 4.97E-08	3.82 ± 1.25	2.63 ± 0.63	2.02 ± 0.26
bn130214137	1.59E-06 ± 1.07E-07	3.11 ± 1.15	1.94 ± 0.37	1.43 ± 0.18
bn130214800	5.98E-06 ± 9.10E-08	10.35 ± 1.36	9.08 ± 0.56	8.28 ± 0.28
bn130215063	1.86E-05 ± 3.27E-07	5.18 ± 1.15	4.39 ± 0.56	3.47 ± 0.28
bn130215649	2.15E-05 ± 6.04E-08	10.86 ± 2.28	9.80 ± 0.92	8.46 ± 0.44
bn130216790	4.89E-06 ± 3.57E-08	20.26 ± 1.99	19.39 ± 0.98	15.25 ± 0.42
bn130216927	5.92E-06 ± 6.06E-08	12.57 ± 1.25	10.30 ± 0.60	9.20 ± 0.29
bn130217688	1.10E-06 ± 5.45E-08	6.98 ± 1.35	5.68 ± 0.65	4.54 ± 0.31
bn130218261	9.43E-06 ± 1.06E-07	11.60 ± 2.66	9.76 ± 1.24	8.05 ± 0.52
bn130219197	3.19E-05 ± 1.03E-07	6.55 ± 2.43	5.40 ± 0.42	4.58 ± 0.25
bn130219626	2.03E-07 ± 1.98E-08	6.47 ± 1.13	3.58 ± 0.49	1.04 ± 0.20
bn130219775	2.85E-05 ± 7.33E-08	17.11 ± 1.62	15.76 ± 0.76	15.03 ± 0.37
bn130220964	7.24E-06 ± 4.58E-08	28.42 ± 1.54	27.53 ± 0.77	25.27 ± 0.37
bn130224370	4.96E-06 ± 5.94E-08	5.96 ± 1.09	5.04 ± 0.50	3.96 ± 0.22
bn130228111	6.96E-06 ± 5.06E-08	6.80 ± 1.38	4.71 ± 0.61	4.28 ± 0.29
bn130228212	1.75E-05 ± 1.46E-07	36.20 ± 4.40	31.65 ± 2.03	25.58 ± 0.95
bn130304410	3.70E-05 ± 9.15E-08	16.53 ± 3.77	12.17 ± 1.28	9.69 ± 0.57

Table 7—Continued

Trigger ID	Fluence (erg cm <sup>-2</sup> )	PF64 (ph cm <sup>-2</sup> s <sup>-1</sup> )	PF256 (ph cm <sup>-2</sup> s <sup>-1</sup> )	PF1024 (ph cm <sup>-2</sup> s <sup>-1</sup> )
bn130304658	1.62E-06 ± 4.08E-08	4.97 ± 1.61	3.36 ± 0.66	2.58 ± 0.31
bn130305486	4.65E-05 ± 7.18E-08	30.10 ± 1.54	27.55 ± 0.76	26.77 ± 0.38
bn130305526	1.52E-06 ± 4.61E-08	3.55 ± 0.90	2.09 ± 0.29	1.08 ± 0.20
bn130306991	1.25E-04 ± 7.20E-07	42.10 ± 8.11	36.36 ± 2.77	29.42 ± 1.62
bn130307126	4.79E-07 ± 6.81E-09	9.93 ± 1.15	8.25 ± 0.47	3.61 ± 0.17
bn130307238	3.97E-06 ± 5.85E-08	5.24 ± 1.67	3.45 ± 0.59	2.43 ± 0.28
bn130310840	1.13E-05 ± 6.71E-08	172.82 ± 3.36	90.41 ± 1.25	39.29 ± 0.45
bn130314147	1.46E-05 ± 4.67E-08	7.49 ± 1.36	5.34 ± 0.40	4.80 ± 0.26
bn130318456	3.20E-06 ± 4.87E-08	7.38 ± 1.95	5.61 ± 0.74	3.88 ± 0.40
bn130320560	8.12E-05 ± 1.74E-06	200.59 ± 4.88	191.98 ± 2.36	184.03 ± 1.16
bn130324042	2.06E-06 ± 3.05E-08	3.41 ± 1.35	1.95 ± 0.41	1.26 ± 0.17
bn130325005	5.66E-08 ± 1.39E-08	6.13 ± 1.04	2.53 ± 0.41	0.86 ± 0.17
bn130325203	7.44E-06 ± 2.94E-08	15.29 ± 1.13	14.40 ± 0.55	12.70 ± 0.26
bn130327350	5.20E-05 ± 8.06E-08	16.77 ± 1.31	14.51 ± 0.67	12.59 ± 0.32
bn130331566	9.33E-06 ± 5.05E-08	17.76 ± 2.09	16.30 ± 0.87	14.69 ± 0.47
bn130403866	1.09E-06 ± 6.93E-08	4.63 ± 2.40	1.80 ± 0.42	1.30 ± 0.21
bn130404428	8.43E-07 ± 4.45E-08	7.02 ± 1.08	5.44 ± 0.57	4.07 ± 0.26
bn130404840	8.36E-06 ± 5.95E-08	14.61 ± 1.67	12.77 ± 0.79	11.24 ± 0.37
bn130404877	2.20E-07 ± 5.61E-08	4.09 ± 1.05	2.82 ± 0.46	1.22 ± 0.19
bn130406288	2.92E-06 ± 5.14E-08	20.01 ± 1.60	15.99 ± 0.77	12.84 ± 0.36
bn130406334	3.21E-06 ± 1.06E-07	7.46 ± 1.65	5.07 ± 0.66	3.65 ± 0.34
bn130406354	2.98E-07 ± 2.90E-08	3.45 ± 1.17	1.92 ± 0.38	1.34 ± 0.15
bn130407800	1.75E-06 ± 4.95E-08	2.76 ± 0.87	2.53 ± 0.40	1.58 ± 0.18
bn130408653	2.05E-06 ± 4.83E-08	8.24 ± 1.66	7.58 ± 0.80	5.76 ± 0.37
bn130409960	7.87E-06 ± 5.19E-08	10.56 ± 1.33	9.89 ± 0.64	8.73 ± 0.30
bn130416690	2.81E-07 ± 1.62E-08	3.22 ± 0.83	2.03 ± 0.42	1.51 ± 0.17
bn130416770	9.39E-07 ± 1.79E-08	23.59 ± 1.43	10.36 ± 0.59	3.20 ± 0.24
bn130418844	5.98E-06 ± 3.39E-08	8.27 ± 1.35	5.56 ± 0.64	4.71 ± 0.28
bn130420313	1.16E-05 ± 2.43E-07	9.28 ± 2.11	6.74 ± 0.92	5.41 ± 0.46
bn130420343	8.92E-06 ± 6.06E-08	10.52 ± 1.25	8.17 ± 0.38	7.60 ± 0.25
bn130420422	3.77E-06 ± 4.59E-08	8.87 ± 1.90	6.94 ± 0.80	5.38 ± 0.37
bn130420539	1.60E-06 ± 5.77E-08	3.90 ± 1.18	2.69 ± 0.39	2.40 ± 0.21

Table 7—Continued

Trigger ID	Fluence (erg cm <sup>-2</sup> )	PF64 (ph cm <sup>-2</sup> s <sup>-1</sup> )	PF256 (ph cm <sup>-2</sup> s <sup>-1</sup> )	PF1024 (ph cm <sup>-2</sup> s <sup>-1</sup> )
bn130425327	4.17E-05 ± 1.59E-07	29.09 ± 4.80	25.37 ± 2.28	23.72 ± 1.14
bn130427324	2.46E-03 ± 1.24E-06	1259.22 ± 10.51	1210.15 ± 4.85	1051.86 ± 2.21
bn130502327	1.05E-04 ± 6.43E-08	81.85 ± 2.51	70.17 ± 1.18	45.81 ± 0.49
bn130502743	6.27E-07 ± 3.47E-08	6.60 ± 1.44	6.33 ± 0.72	3.98 ± 0.32
bn130503214	3.86E-08 ± 8.88E-09	5.26 ± 1.05	1.80 ± 0.34	0.40 ± 0.13
bn130504314	4.81E-06 ± 3.39E-08	40.48 ± 2.25	30.94 ± 0.94	12.43 ± 0.32
bn130504978	1.29E-04 ± 2.32E-07	53.42 ± 2.16	51.26 ± 1.07	43.29 ± 0.52
bn130505955	9.87E-06 ± 2.82E-07	6.61 ± 1.36	5.20 ± 0.62	4.09 ± 0.27
bn130507545	4.27E-06 ± 4.67E-08	4.66 ± 1.09	3.67 ± 0.50	2.62 ± 0.23
bn130509078	9.01E-06 ± 6.05E-08	16.97 ± 1.77	14.51 ± 0.81	13.23 ± 0.39
bn130509839	1.52E-06 ± 2.08E-08	3.65 ± 1.43	1.84 ± 0.44	1.27 ± 0.21
bn130510877	3.21E-06 ± 7.18E-08	6.03 ± 1.48	4.93 ± 0.64	3.70 ± 0.30
bn130514560	2.27E-06 ± 4.58E-08	9.23 ± 2.00	7.06 ± 0.83	6.46 ± 0.43
bn130515056	1.09E-06 ± 1.58E-08	20.60 ± 2.33	12.90 ± 1.03	3.73 ± 0.35
bn130515430	1.01E-06 ± 4.32E-08	4.60 ± 1.76	2.13 ± 0.56	1.37 ± 0.24
bn130515755	6.80E-07 ± 2.28E-08	5.55 ± 1.21	5.12 ± 0.51	4.24 ± 0.26
bn130517781	1.97E-05 ± 7.86E-08	11.89 ± 1.54	10.29 ± 0.71	9.41 ± 0.34
bn130518551	3.73E-06 ± 4.91E-08	19.81 ± 1.08	13.64 ± 0.51	7.39 ± 0.23
bn130518580	9.46E-05 ± 1.54E-07	53.97 ± 1.83	49.76 ± 0.91	45.39 ± 0.44
bn130522510	3.99E-06 ± 3.33E-08	10.52 ± 1.40	8.85 ± 0.67	7.08 ± 0.27
bn130523095	6.03E-06 ± 5.79E-08	14.47 ± 2.04	12.78 ± 0.94	11.05 ± 0.45
bn130523198	2.71E-06 ± 3.10E-08	13.45 ± 1.37	10.50 ± 0.67	9.41 ± 0.31
bn130527627	1.09E-05 ± 5.76E-08	6.96 ± 1.30	5.11 ± 0.60	4.48 ± 0.27
bn130528503	3.33E-06 ± 2.50E-08	4.51 ± 1.24	3.94 ± 0.57	3.03 ± 0.24
bn130528695	1.11E-05 ± 1.20E-07	7.54 ± 1.38	6.74 ± 0.60	5.67 ± 0.27
bn130530719	6.33E-06 ± 3.94E-08	8.74 ± 1.55	6.00 ± 0.64	4.59 ± 0.29
bn130604033	1.75E-05 ± 1.31E-07	20.00 ± 1.66	16.84 ± 0.79	13.24 ± 0.37
bn130606316	9.36E-06 ± 3.93E-08	15.37 ± 1.40	13.81 ± 0.68	11.40 ± 0.32
bn130606497	2.01E-04 ± 2.05E-07	79.36 ± 2.55	71.32 ± 1.22	62.14 ± 0.58
bn130609129	1.06E-06 ± 8.22E-08	4.31 ± 1.00	3.63 ± 0.51	3.20 ± 0.23
bn130609902	5.44E-05 ± 3.30E-07	18.61 ± 1.82	16.81 ± 0.90	14.36 ± 0.43
bn130610133	3.54E-06 ± 4.60E-08	5.21 ± 1.53	3.55 ± 0.60	2.86 ± 0.25

Table 7—Continued

Trigger ID	Fluence (erg cm <sup>-2</sup> )	PF64 (ph cm <sup>-2</sup> s <sup>-1</sup> )	PF256 (ph cm <sup>-2</sup> s <sup>-1</sup> )	PF1024 (ph cm <sup>-2</sup> s <sup>-1</sup> )
bn130611538	7.44E-06 ± 1.00E-07	4.02 ± 1.26	2.70 ± 0.43	2.04 ± 0.22
bn130612141	6.80E-07 ± 6.26E-08	4.39 ± 1.14	4.21 ± 0.27	3.57 ± 0.17
bn130612456	8.33E-06 ± 4.04E-08	32.68 ± 1.88	31.13 ± 0.93	28.01 ± 0.44
bn130614997	6.72E-06 ± 9.66E-08	26.09 ± 1.87	24.08 ± 0.95	20.69 ± 0.45
bn130615398	2.74E-06 ± 1.52E-07	6.06 ± 1.84	3.66 ± 0.68	2.86 ± 0.37
bn130617564	2.41E-07 ± 1.83E-08	7.55 ± 2.19	6.21 ± 0.90	4.13 ± 0.41
bn130620498	1.18E-06 ± 5.58E-08	4.48 ± 0.91	3.72 ± 0.44	3.38 ± 0.21
bn130622615	4.32E-07 ± 2.80E-08	5.67 ± 1.05	4.56 ± 0.46	3.20 ± 0.21
bn130623130	9.45E-07 ± 1.83E-08	5.09 ± 1.16	3.41 ± 0.48	2.63 ± 0.25
bn130623396	1.07E-06 ± 4.83E-08	2.94 ± 0.89	1.72 ± 0.38	1.11 ± 0.18
bn130623488	2.46E-06 ± 3.00E-08	8.35 ± 1.28	6.83 ± 0.43	5.26 ± 0.23
bn130623699	7.04E-07 ± 3.66E-08	3.55 ± 1.43	2.75 ± 0.62	1.79 ± 0.28
bn130623790	8.69E-06 ± 5.45E-08	14.01 ± 1.80	11.77 ± 0.87	10.38 ± 0.42
bn130624093	5.19E-07 ± 2.09E-08	2.63 ± 0.97	1.48 ± 0.23	0.94 ± 0.10
bn130626452	2.34E-07 ± 8.39E-09	6.17 ± 1.08	4.27 ± 0.48	1.44 ± 0.22
bn130626596	4.82E-06 ± 3.27E-08	6.97 ± 1.29	5.16 ± 0.60	4.41 ± 0.29
bn130627372	1.58E-06 ± 2.41E-08	5.16 ± 1.38	4.22 ± 0.49	3.08 ± 0.27
bn130628531	8.87E-06 ± 6.04E-08	18.52 ± 1.32	17.33 ± 0.64	14.56 ± 0.32
bn130628860	1.03E-06 ± 9.79E-09	21.23 ± 1.55	8.26 ± 0.52	3.48 ± 0.21
bn130630272	1.65E-05 ± 6.95E-08	14.00 ± 2.04	11.05 ± 0.93	10.37 ± 0.46
bn130701060	7.12E-06 ± 9.84E-08	12.62 ± 2.23	11.52 ± 0.90	10.48 ± 0.45
bn130701761	4.92E-06 ± 2.64E-08	17.41 ± 1.26	11.88 ± 0.56	9.34 ± 0.25
bn130702004	5.72E-06 ± 1.21E-07	16.51 ± 4.69	12.66 ± 1.75	7.03 ± 0.86
bn130702951	7.53E-07 ± 3.98E-08	4.67 ± 1.78	2.24 ± 0.34	1.49 ± 0.17
bn130704560	2.43E-05 ± 5.42E-08	86.17 ± 2.85	75.86 ± 1.37	60.74 ± 0.65
bn130705398	2.12E-07 ± 2.34E-08	6.16 ± 1.01	3.51 ± 0.42	1.03 ± 0.17
bn130706900	1.86E-07 ± 2.12E-08	7.49 ± 0.98	3.57 ± 0.44	0.76 ± 0.17
bn130707505	1.05E-05 ± 1.07E-07	9.21 ± 2.60	6.75 ± 1.08	4.73 ± 0.47
bn130708488	2.53E-06 ± 2.70E-08	5.83 ± 1.20	4.51 ± 0.56	3.55 ± 0.24
bn130715906	4.11E-05 ± 1.70E-07	10.06 ± 1.29	8.31 ± 0.62	7.75 ± 0.31
bn130716352	2.99E-06 ± 5.63E-08	3.95 ± 1.33	1.98 ± 0.46	1.37 ± 0.21
bn130716442	6.40E-07 ± 8.86E-09	5.73 ± 0.90	4.66 ± 0.22	2.07 ± 0.17

Table 7—Continued

Trigger ID	Fluence (erg cm <sup>-2</sup> )	PF64 (ph cm <sup>-2</sup> s <sup>-1</sup> )	PF256 (ph cm <sup>-2</sup> s <sup>-1</sup> )	PF1024 (ph cm <sup>-2</sup> s <sup>-1</sup> )
bn130717734	1.87E-06 ± 4.66E-08	2.95 ± 1.14	2.61 ± 0.45	1.81 ± 0.20
bn130720116	4.24E-06 ± 4.89E-08	4.19 ± 1.36	3.13 ± 0.37	2.55 ± 0.18
bn130720582	1.00E-04 ± 1.53E-07	29.52 ± 1.93	26.76 ± 0.95	24.93 ± 0.46
bn130722021	1.48E-06 ± 4.66E-08	3.46 ± 1.17	1.87 ± 0.36	1.17 ± 0.19
bn130722990	5.99E-07 ± 2.57E-08	7.11 ± 1.25	6.70 ± 0.62	5.48 ± 0.23
bn130723092	8.71E-07 ± 3.05E-08	6.39 ± 1.20	5.55 ± 0.56	4.43 ± 0.27
bn130725527	5.18E-06 ± 6.10E-08	14.93 ± 1.06	13.58 ± 0.55	9.87 ± 0.25
bn130727698	8.16E-06 ± 6.36E-08	15.90 ± 2.65	13.57 ± 1.18	11.13 ± 0.56
bn130730243	2.12E-06 ± 3.52E-08	5.27 ± 1.31	5.01 ± 0.62	3.96 ± 0.28
bn130802730	3.26E-07 ± 1.60E-08	8.86 ± 1.24	2.41 ± 0.42	0.66 ± 0.17
bn130803419	2.82E-06 ± 3.58E-08	9.65 ± 1.41	8.00 ± 0.66	7.07 ± 0.32
bn130804023	1.66E-06 ± 1.59E-08	40.68 ± 1.76	17.04 ± 0.67	7.44 ± 0.24
bn130808253	2.30E-07 ± 1.78E-08	20.76 ± 2.26	12.31 ± 0.96	3.58 ± 0.36
bn130811186	6.38E-06 ± 7.89E-08	6.50 ± 1.22	5.15 ± 0.57	4.31 ± 0.25
bn130813791	1.23E-06 ± 2.15E-08	6.38 ± 1.12	5.35 ± 0.49	3.17 ± 0.21
bn130815420	4.59E-05 ± 1.02E-07	10.74 ± 1.47	9.69 ± 0.75	7.98 ± 0.33
bn130815660	1.18E-05 ± 4.79E-08	34.53 ± 1.95	33.09 ± 0.93	30.67 ± 0.45
bn130816074	7.96E-07 ± 2.73E-08	3.20 ± 0.99	2.82 ± 0.30	1.95 ± 0.17
bn130818941	3.53E-06 ± 6.83E-08	9.94 ± 1.54	7.99 ± 0.64	6.25 ± 0.31
bn130819394	8.68E-06 ± 6.90E-08	5.53 ± 1.19	3.61 ± 0.48	2.63 ± 0.25
bn130821674	5.61E-05 ± 9.15E-08	44.11 ± 1.66	38.22 ± 0.80	27.87 ± 0.37
bn130828306	3.72E-05 ± 5.98E-08	8.37 ± 1.38	6.90 ± 0.61	5.41 ± 0.28
bn130828808	2.78E-06 ± 3.06E-08	10.94 ± 1.33	10.48 ± 0.63	8.89 ± 0.28
bn130829672	3.68E-06 ± 4.97E-08	13.77 ± 1.95	11.66 ± 0.91	10.31 ± 0.43
bn130830864	1.89E-06 ± 4.81E-08	3.34 ± 1.06	1.91 ± 0.45	1.40 ± 0.22
bn130830921	1.44E-06 ± 3.50E-08	4.91 ± 1.47	3.05 ± 0.64	2.27 ± 0.31
bn130831058	2.13E-06 ± 2.47E-08	3.69 ± 0.91	2.58 ± 0.41	2.05 ± 0.19
bn130903033	2.52E-06 ± 5.78E-08	3.95 ± 1.00	2.53 ± 0.33	1.34 ± 0.22
bn130905377	4.44E-06 ± 8.16E-08	4.99 ± 1.30	3.16 ± 0.38	2.60 ± 0.18
bn130906222	6.27E-07 ± 3.01E-08	3.68 ± 0.90	2.18 ± 0.44	1.68 ± 0.20
bn130906435	8.24E-07 ± 3.51E-08	3.30 ± 1.01	3.14 ± 0.43	2.10 ± 0.20
bn130907760	2.61E-07 ± 2.83E-08	3.37 ± 0.84	2.88 ± 0.41	1.84 ± 0.19

Table 7—Continued

Trigger ID	Fluence (erg cm <sup>-2</sup> )	PF64 (ph cm <sup>-2</sup> s <sup>-1</sup> )	PF256 (ph cm <sup>-2</sup> s <sup>-1</sup> )	PF1024 (ph cm <sup>-2</sup> s <sup>-1</sup> )
bn130908677	2.92E-06 ± 1.51E-07	3.35 ± 1.24	1.72 ± 0.42	1.17 ± 0.21
bn130909817	1.98E-06 ± 5.84E-08	3.30 ± 1.11	1.99 ± 0.46	1.45 ± 0.21
bn130912358	7.01E-07 ± 1.77E-08	15.56 ± 1.47	10.48 ± 0.70	4.37 ± 0.28
bn130919173	3.68E-07 ± 1.11E-08	17.51 ± 1.40	10.36 ± 0.59	3.94 ± 0.24
bn130919352	4.68E-06 ± 3.62E-08	4.20 ± 0.94	2.90 ± 0.39	1.77 ± 0.19
bn130919985	3.36E-06 ± 1.46E-07	4.71 ± 1.20	2.72 ± 0.65	1.93 ± 0.32
bn130924255	3.73E-06 ± 6.19E-08	6.95 ± 1.74	5.41 ± 0.78	4.60 ± 0.35
bn130924910	3.47E-07 ± 3.95E-08	3.79 ± 1.14	3.15 ± 0.42	2.46 ± 0.21
bn130925164	6.34E-07 ± 2.75E-08	5.88 ± 1.66	3.69 ± 0.62	2.47 ± 0.27
bn130925173	8.48E-05 ± 2.62E-07	14.11 ± 1.55	12.34 ± 0.72	11.39 ± 0.31
bn130925546	1.49E-05 ± 2.20E-07	9.33 ± 2.37	7.20 ± 0.96	5.77 ± 0.52
bn130928537	1.95E-05 ± 9.76E-08	9.95 ± 2.88	6.17 ± 0.98	5.02 ± 0.47
bn130929375	3.23E-07 ± 1.40E-08	4.22 ± 1.44	1.84 ± 0.44	1.42 ± 0.22
bn131002288	1.20E-06 ± 5.53E-08	8.67 ± 2.52	7.13 ± 0.74	2.96 ± 0.37
bn131004904	5.10E-07 ± 1.91E-08	9.82 ± 1.71	9.82 ± 0.43	6.77 ± 0.29
bn131006367	1.27E-07 ± 1.48E-08	4.02 ± 0.96	2.15 ± 0.47	0.57 ± 0.20
bn131006840	1.84E-06 ± 5.57E-08	4.85 ± 1.37	2.91 ± 0.56	2.11 ± 0.26
bn131008858	8.23E-06 ± 7.02E-08	7.63 ± 1.98	6.16 ± 0.89	5.29 ± 0.42
bn131011741	8.88E-06 ± 6.44E-08	6.71 ± 1.28	5.04 ± 0.51	4.68 ± 0.26
bn131014215	1.98E-04 ± 1.50E-07	450.28 ± 5.39	428.88 ± 2.64	311.48 ± 1.13
bn131014513	1.95E-06 ± 4.64E-08	6.87 ± 1.68	4.87 ± 0.69	3.75 ± 0.29
bn131018673	2.73E-06 ± 1.17E-07	3.91 ± 1.29	2.29 ± 0.47	1.69 ± 0.22
bn131020113	2.76E-07 ± 2.54E-08	2.49 ± 0.79	1.79 ± 0.44	1.56 ± 0.21
bn131021352	1.40E-06 ± 4.62E-08	12.50 ± 1.81	11.42 ± 0.89	6.46 ± 0.39
bn131024900	1.33E-06 ± 4.32E-08	3.70 ± 0.87	2.45 ± 0.37	1.58 ± 0.18
bn131028076	1.53E-04 ± 1.31E-07	65.83 ± 2.86	64.04 ± 1.39	61.89 ± 0.70
bn131028096	1.46E-06 ± 6.20E-08	6.59 ± 1.72	5.45 ± 0.68	3.44 ± 0.29
bn131029973	2.90E-05 ± 1.23E-07	6.27 ± 1.07	5.36 ± 0.48	4.62 ± 0.22
bn131029990	4.49E-06 ± 9.29E-08	4.12 ± 0.99	2.44 ± 0.47	2.05 ± 0.20
bn131030653	1.65E-06 ± 3.20E-08	3.99 ± 0.91	2.93 ± 0.37	1.87 ± 0.19
bn131030791	3.51E-06 ± 3.28E-08	5.31 ± 1.09	4.00 ± 0.50	3.80 ± 0.24
bn131031482	4.38E-06 ± 5.03E-08	16.84 ± 1.23	13.37 ± 0.57	10.17 ± 0.27

Table 7—Continued

Trigger ID	Fluence (erg cm <sup>-2</sup> )	PF64 (ph cm <sup>-2</sup> s <sup>-1</sup> )	PF256 (ph cm <sup>-2</sup> s <sup>-1</sup> )	PF1024 (ph cm <sup>-2</sup> s <sup>-1</sup> )
bn131102622	1.42E-06 ± 4.64E-08	4.12 ± 1.20	1.87 ± 0.43	1.06 ± 0.20
bn131105087	2.38E-05 ± 1.11E-07	12.08 ± 1.18	10.06 ± 0.57	8.40 ± 0.28
bn131108024	2.82E-06 ± 4.70E-08	9.26 ± 1.34	8.40 ± 0.71	6.80 ± 0.35
bn131108862	3.57E-05 ± 1.34E-07	36.09 ± 1.56	27.27 ± 0.78	19.72 ± 0.36
bn131110373	3.27E-06 ± 3.29E-08	3.47 ± 1.03	2.95 ± 0.48	2.24 ± 0.23
bn131113483	2.30E-05 ± 9.54E-08	9.23 ± 1.30	7.79 ± 0.60	7.05 ± 0.29
bn131117766	1.44E-05 ± 7.80E-08	5.09 ± 1.17	3.24 ± 0.43	2.79 ± 0.21
bn131118958	6.75E-05 ± 4.03E-07	20.75 ± 4.80	16.01 ± 1.65	12.51 ± 0.93
bn131119781	1.85E-06 ± 2.45E-08	4.06 ± 0.81	3.31 ± 0.41	2.28 ± 0.20
bn131122490	2.83E-05 ± 7.37E-08	19.48 ± 1.86	18.24 ± 0.93	15.73 ± 0.46
bn131123543	4.08E-07 ± 2.74E-08	6.65 ± 1.16	4.62 ± 0.51	2.82 ± 0.23
bn131125689	4.52E-07 ± 2.94E-08	7.23 ± 1.77	5.93 ± 0.77	3.45 ± 0.37
bn131126163	1.70E-06 ± 2.83E-08	36.03 ± 2.11	18.70 ± 0.85	4.77 ± 0.27
bn131127480	4.24E-06 ± 5.36E-08	3.78 ± 0.92	2.80 ± 0.30	1.99 ± 0.20
bn131127592	3.85E-05 ± 1.44E-07	47.42 ± 2.12	46.54 ± 1.06	37.55 ± 0.49
bn131127696	1.22E-06 ± 7.52E-08	3.94 ± 0.89	3.30 ± 0.45	2.72 ± 0.21
bn131128629	5.70E-07 ± 4.11E-08	5.64 ± 1.23	4.75 ± 0.54	3.75 ± 0.26
bn131202633	8.17E-07 ± 5.26E-08	3.66 ± 1.13	2.67 ± 0.50	1.69 ± 0.23
bn131202906	1.24E-05 ± 4.39E-08	7.87 ± 1.44	5.64 ± 0.57	4.74 ± 0.31
bn131204937	1.65E-06 ± 2.41E-08	5.11 ± 1.09	3.61 ± 0.52	2.08 ± 0.22
bn131209547	1.37E-05 ± 8.83E-08	10.24 ± 1.21	9.01 ± 0.55	7.97 ± 0.27
bn131209963	6.57E-07 ± 7.38E-08	5.33 ± 1.35	4.45 ± 0.66	3.32 ± 0.30
bn131211510	4.51E-06 ± 4.65E-08	5.78 ± 1.14	4.76 ± 0.50	3.98 ± 0.16
bn131212814	4.75E-07 ± 4.98E-08	3.22 ± 0.96	2.16 ± 0.27	1.56 ± 0.20
bn131214705	7.22E-05 ± 2.12E-07	54.20 ± 3.07	54.20 ± 0.77	51.16 ± 0.39
bn131215298	8.05E-06 ± 9.03E-08	7.84 ± 1.42	6.42 ± 0.65	5.33 ± 0.31
bn131216081	6.78E-06 ± 3.99E-08	9.43 ± 1.04	8.44 ± 0.49	7.89 ± 0.23
bn131217108	6.76E-07 ± 3.86E-08	8.16 ± 1.25	5.58 ± 0.55	3.49 ± 0.26
bn131217183	5.75E-06 ± 7.99E-08	13.09 ± 3.55	10.26 ± 1.24	6.80 ± 0.37
bn131217506	5.75E-06 ± 7.99E-08	13.09 ± 3.55	10.26 ± 1.24	6.80 ± 0.37
bn131229277	2.64E-05 ± 6.67E-08	30.75 ± 1.63	28.43 ± 0.80	24.02 ± 0.38
bn131230529	5.91E-07 ± 3.98E-08	7.74 ± 2.53	3.52 ± 0.87	2.81 ± 0.40

Table 7—Continued

Trigger ID	Fluence (erg cm <sup>-2</sup> )	PF64 (ph cm <sup>-2</sup> s <sup>-1</sup> )	PF256 (ph cm <sup>-2</sup> s <sup>-1</sup> )	PF1024 (ph cm <sup>-2</sup> s <sup>-1</sup> )
bn131230808	4.11E-06 ± 4.28E-08	4.31 ± 1.11	3.24 ± 0.44	2.72 ± 0.21
bn131231198	1.52E-04 ± 1.19E-07	82.72 ± 2.68	82.12 ± 1.34	78.81 ± 0.65
bn140102887	1.78E-05 ± 2.41E-08	66.23 ± 1.96	59.14 ± 0.94	49.67 ± 0.43
bn140104731	3.33E-05 ± 6.02E-08	7.72 ± 1.22	6.56 ± 0.55	5.69 ± 0.19
bn140105065	6.43E-07 ± 1.38E-08	8.16 ± 1.19	5.91 ± 0.51	3.31 ± 0.23
bn140105748	1.30E-07 ± 2.19E-08	4.86 ± 1.08	3.51 ± 0.49	2.43 ± 0.24
bn140106345	2.46E-06 ± 8.36E-08	5.76 ± 2.14	3.26 ± 0.53	2.61 ± 0.30
bn140108721	1.97E-05 ± 2.48E-07	12.68 ± 1.56	11.55 ± 0.69	10.23 ± 0.32
bn140109771	1.89E-07 ± 4.28E-08	5.97 ± 1.73	3.78 ± 0.76	2.14 ± 0.40
bn140109877	1.49E-07 ± 2.50E-08	1.49 ± 1.10	0.82 ± 0.52	0.35 ± 0.22
bn140110263	5.43E-06 ± 4.53E-08	4.84 ± 0.95	4.10 ± 0.35	3.58 ± 0.18
bn140110411	4.60E-08 ± 5.51E-09	3.68 ± 1.19	1.62 ± 0.46	0.78 ± 0.21
bn140110814	8.32E-06 ± 1.31E-07	11.10 ± 3.54	7.26 ± 1.18	6.65 ± 0.58
bn140112060	1.60E-06 ± 4.38E-08	3.47 ± 0.99	2.79 ± 0.37	2.03 ± 0.18
bn140113183	2.65E-06 ± 4.49E-08	4.08 ± 1.15	3.53 ± 0.40	2.27 ± 0.22
bn140113624	5.70E-07 ± 3.86E-08	4.59 ± 1.16	4.36 ± 0.40	3.37 ± 0.20
bn140115863	3.95E-06 ± 3.76E-08	7.20 ± 1.12	6.52 ± 0.60	5.13 ± 0.29
bn140115899	3.26E-06 ± 5.44E-08	13.12 ± 1.97	12.58 ± 0.69	11.53 ± 0.36
bn140118064	3.96E-06 ± 4.60E-08	5.64 ± 1.31	4.42 ± 0.79	2.97 ± 0.28
bn140122597	9.05E-07 ± 5.27E-08	5.09 ± 1.53	3.33 ± 0.54	2.69 ± 0.24
bn140124527	2.01E-05 ± 1.42E-07	5.70 ± 1.08	4.95 ± 0.48	4.14 ± 0.23
bn140126815	5.35E-06 ± 4.04E-08	5.01 ± 1.21	3.71 ± 0.49	3.22 ± 0.24
bn140129499	2.24E-07 ± 1.53E-08	6.81 ± 1.35	5.11 ± 0.57	1.48 ± 0.25
bn140204547	2.35E-06 ± 3.69E-08	3.71 ± 0.92	2.20 ± 0.38	1.61 ± 0.19
bn140206275	1.23E-04 ± 2.78E-07	46.41 ± 1.57	45.59 ± 0.78	43.18 ± 0.39
bn140206304	1.55E-05 ± 7.48E-08	24.16 ± 2.13	22.96 ± 1.03	17.44 ± 0.48
bn140209313	8.97E-06 ± 5.33E-08	120.53 ± 3.44	106.73 ± 1.62	57.97 ± 0.65
bn140211091	7.37E-07 ± 3.19E-08	6.43 ± 1.33	5.42 ± 0.64	4.10 ± 0.27
bn140213807	2.12E-05 ± 6.54E-08	42.81 ± 2.08	41.32 ± 1.02	36.88 ± 0.49
bn140216331	9.74E-07 ± 1.10E-07	3.46 ± 1.04	2.84 ± 0.49	2.46 ± 0.23
bn140217043	2.34E-06 ± 3.69E-08	6.39 ± 1.31	4.84 ± 0.64	4.15 ± 0.30
bn140218427	5.61E-06 ± 6.19E-08	4.63 ± 1.25	3.75 ± 0.35	2.40 ± 0.26



Table 7—Continued

Trigger ID	Fluence (erg cm <sup>-2</sup> )	PF64 (ph cm <sup>-2</sup> s <sup>-1</sup> )	PF256 (ph cm <sup>-2</sup> s <sup>-1</sup> )	PF1024 (ph cm <sup>-2</sup> s <sup>-1</sup> )
bn140219319	2.69E-06 ± 2.70E-08	5.07 ± 0.90	4.01 ± 0.44	3.55 ± 0.21
bn140219824	2.84E-06 ± 4.25E-08	5.08 ± 1.17	4.51 ± 0.57	3.21 ± 0.26
bn140223495	1.98E-06 ± 3.35E-08	3.24 ± 1.05	2.76 ± 0.47	2.01 ± 0.20
bn140224382	6.58E-07 ± 4.26E-08	8.81 ± 1.35	6.65 ± 0.67	4.09 ± 0.30
bn140224788	2.42E-06 ± 6.28E-08	4.09 ± 1.11	3.27 ± 0.44	2.81 ± 0.23
bn140227738	7.14E-07 ± 8.18E-08	4.64 ± 1.28	3.04 ± 0.58	2.21 ± 0.27
bn140302342	5.96E-06 ± 4.45E-08	5.33 ± 1.05	4.53 ± 0.53	3.53 ± 0.27
bn140304557	2.43E-06 ± 3.16E-08	4.15 ± 0.80	3.29 ± 0.48	2.69 ± 0.22
bn140304849	8.32E-06 ± 5.24E-08	6.69 ± 1.50	5.52 ± 0.69	3.89 ± 0.32
bn140306146	5.78E-05 ± 8.89E-08	19.01 ± 1.33	14.14 ± 0.55	12.58 ± 0.25
bn140308710	6.44E-06 ± 3.86E-08	27.41 ± 1.77	23.51 ± 0.85	16.08 ± 0.39
bn140311453	3.70E-06 ± 5.40E-08	6.72 ± 1.47	4.94 ± 0.61	4.57 ± 0.30
bn140311618	3.97E-06 ± 1.24E-07	12.75 ± 1.51	11.70 ± 0.76	10.68 ± 0.37
bn140311885	7.02E-06 ± 6.75E-08	5.81 ± 1.55	4.05 ± 0.53	3.21 ± 0.28
bn140319964	7.13E-06 ± 3.46E-08	10.41 ± 1.33	9.23 ± 0.60	6.85 ± 0.28
bn140320092	1.02E-07 ± 9.71E-09	3.37 ± 1.01	2.15 ± 0.48	1.33 ± 0.23
bn140322424	2.01E-06 ± 2.77E-08	7.03 ± 1.15	6.14 ± 0.51	5.09 ± 0.27
bn140323433	3.24E-05 ± 1.92E-07	13.15 ± 1.21	11.14 ± 0.58	9.67 ± 0.28
bn140327065	8.79E-07 ± 4.22E-08	5.12 ± 1.24	3.13 ± 0.53	2.69 ± 0.24
bn140328560	7.47E-07 ± 1.25E-08	4.12 ± 0.92	2.97 ± 0.44	2.46 ± 0.21
bn140329272	2.38E-07 ± 8.46E-09	7.70 ± 0.98	3.87 ± 0.40	0.89 ± 0.17
bn140329295	6.59E-05 ± 3.63E-08	125.11 ± 3.82	113.24 ± 1.85	101.93 ± 0.88
bn140330180	5.69E-06 ± 8.72E-08	6.04 ± 1.08	4.86 ± 0.50	4.30 ± 0.24
bn140402007	2.84E-07 ± 2.90E-08	4.60 ± 0.74	3.81 ± 0.42	1.30 ± 0.17
bn140404030	1.92E-06 ± 6.21E-08	3.75 ± 1.13	2.87 ± 0.46	2.16 ± 0.22
bn140404171	8.18E-06 ± 2.33E-08	4.92 ± 1.00	3.97 ± 0.49	3.35 ± 0.21
bn140404900	4.55E-06 ± 3.86E-08	5.47 ± 1.16	4.39 ± 0.55	3.70 ± 0.25
bn140405033	2.60E-06 ± 3.30E-08	3.96 ± 1.18	3.13 ± 0.48	2.47 ± 0.23
bn140406120	1.15E-05 ± 1.09E-07	9.06 ± 1.51	7.44 ± 0.75	5.37 ± 0.33
bn140406144	2.35E-06 ± 8.74E-08	3.24 ± 0.92	1.96 ± 0.43	1.47 ± 0.21
bn140408553	6.57E-07 ± 5.42E-08	5.03 ± 1.54	3.11 ± 0.58	2.39 ± 0.25
bn140414693	5.99E-06 ± 4.48E-08	7.20 ± 1.11	5.82 ± 0.50	4.91 ± 0.25

Table 7—Continued

Trigger ID	Fluence (erg cm <sup>-2</sup> )	PF64 (ph cm <sup>-2</sup> s <sup>-1</sup> )	PF256 (ph cm <sup>-2</sup> s <sup>-1</sup> )	PF1024 (ph cm <sup>-2</sup> s <sup>-1</sup> )
bn140416060	8.14E-05 ± 3.87E-07	107.40 ± 5.56	101.47 ± 2.37	79.84 ± 1.21
bn140422194	4.78E-06 ± 1.08E-07	4.68 ± 1.33	3.02 ± 0.56	1.79 ± 0.23
bn140423356	1.81E-05 ± 1.22E-07	4.79 ± 0.94	3.72 ± 0.44	2.99 ± 0.20
bn140426515	2.28E-06 ± 3.17E-08	3.32 ± 1.19	2.29 ± 0.33	1.46 ± 0.16
bn140427702	5.37E-07 ± 6.43E-08	5.82 ± 1.87	3.86 ± 0.70	2.36 ± 0.37
bn140428906	9.19E-07 ± 2.01E-08	17.56 ± 1.99	10.43 ± 0.85	4.13 ± 0.37
bn140429975	6.20E-07 ± 1.99E-08	3.82 ± 1.17	2.08 ± 0.42	1.67 ± 0.21
bn140430716	9.18E-06 ± 1.55E-07	19.03 ± 2.51	16.68 ± 1.12	13.39 ± 0.51
bn140501139	2.07E-07 ± 1.93E-08	5.64 ± 1.28	3.54 ± 0.51	0.92 ± 0.20
bn140501497	6.97E-06 ± 4.38E-08	10.87 ± 1.75	8.88 ± 0.77	7.12 ± 0.36
bn140502354	2.11E-06 ± 3.55E-08	3.33 ± 1.05	2.41 ± 0.42	1.63 ± 0.19
bn140506880	6.59E-06 ± 1.18E-07	24.80 ± 2.94	21.50 ± 1.46	15.67 ± 0.70
bn140508128	6.14E-05 ± 1.21E-07	88.15 ± 4.32	85.67 ± 2.14	66.81 ± 0.96
bn140508179	3.34E-06 ± 8.33E-08	7.57 ± 2.59	3.98 ± 0.93	3.25 ± 0.50
bn140508629	2.61E-06 ± 4.59E-08	3.13 ± 0.81	2.16 ± 0.27	1.69 ± 0.14
bn140511095	3.71E-07 ± 3.21E-08	9.40 ± 1.03	7.49 ± 0.54	3.03 ± 0.18
bn140511995	6.75E-06 ± 4.15E-08	5.38 ± 1.19	4.12 ± 0.58	3.39 ± 0.26
bn140512814	2.93E-05 ± 8.14E-08	15.27 ± 1.25	13.78 ± 0.56	10.96 ± 0.27
bn140513724	4.11E-06 ± 6.23E-08	7.70 ± 1.17	6.93 ± 0.57	6.18 ± 0.27
bn140516700	2.64E-06 ± 2.91E-08	3.46 ± 0.91	2.50 ± 0.39	1.89 ± 0.20
bn140516765	6.61E-06 ± 1.18E-07	8.87 ± 1.30	7.58 ± 0.65	6.38 ± 0.33
bn140517813	4.73E-06 ± 3.95E-08	5.27 ± 0.94	4.19 ± 0.50	3.61 ± 0.24
bn140518709	3.81E-07 ± 2.68E-08	5.37 ± 1.15	3.70 ± 0.70	2.45 ± 0.35
bn140519043	3.92E-06 ± 4.55E-08	4.12 ± 1.35	3.73 ± 0.51	2.71 ± 0.23
bn140521184	2.75E-06 ± 3.85E-08	4.02 ± 0.98	2.85 ± 0.47	2.03 ± 0.21
bn140521732	2.68E-06 ± 4.19E-08	6.26 ± 1.12	4.72 ± 0.48	3.90 ± 0.22
bn140523129	5.12E-05 ± 4.49E-08	53.53 ± 1.94	46.72 ± 0.97	38.41 ± 0.48
bn140526449	6.79E-06 ± 4.07E-08	16.90 ± 1.61	4.30 ± 0.50	2.86 ± 0.25
bn140526571	1.58E-07 ± 1.28E-08	4.06 ± 0.90	2.60 ± 0.40	0.59 ± 0.17
bn140528837	2.15E-05 ± 4.82E-08	20.20 ± 1.64	16.37 ± 0.75	13.61 ± 0.36
bn140603476	1.86E-05 ± 2.16E-07	5.47 ± 1.12	4.72 ± 0.54	3.65 ± 0.25
bn140605377	8.03E-07 ± 8.51E-09	11.24 ± 0.89	7.40 ± 0.41	2.33 ± 0.15

Table 7—Continued

Trigger ID	Fluence (erg cm <sup>-2</sup> )	PF64 (ph cm <sup>-2</sup> s <sup>-1</sup> )	PF256 (ph cm <sup>-2</sup> s <sup>-1</sup> )	PF1024 (ph cm <sup>-2</sup> s <sup>-1</sup> )
bn140606133	7.59E-06 ± 4.47E-08	16.26 ± 1.35	14.70 ± 0.68	13.18 ± 0.33
bn140608153	1.23E-05 ± 2.25E-07	12.18 ± 3.86	6.94 ± 1.15	5.42 ± 0.65
bn140608713	1.95E-06 ± 6.00E-08	9.97 ± 2.09	9.26 ± 1.00	7.50 ± 0.51
bn140610487	2.64E-07 ± 2.77E-08	4.73 ± 0.98	4.00 ± 0.49	1.68 ± 0.21
bn140610548	1.84E-05 ± 5.62E-08	12.27 ± 1.34	9.98 ± 0.66	9.36 ± 0.32
bn140610689	1.38E-05 ± 1.24E-07	6.63 ± 1.95	3.63 ± 0.70	2.54 ± 0.34
bn140612294	4.10E-06 ± 8.92E-08	4.71 ± 0.88	3.30 ± 0.42	2.71 ± 0.20
bn140616165	2.81E-07 ± 3.35E-08	9.35 ± 1.54	6.58 ± 0.59	2.48 ± 0.21
bn140619475	1.55E-06 ± 6.95E-08	5.28 ± 0.75	4.64 ± 0.36	3.19 ± 0.18
bn140619490	2.10E-07 ± 4.38E-08	16.01 ± 2.61	5.86 ± 0.91	2.00 ± 0.43
bn140620219	6.15E-06 ± 6.40E-08	9.13 ± 1.69	6.79 ± 0.77	6.32 ± 0.36
bn140621827	6.06E-06 ± 5.05E-08	31.70 ± 1.94	16.28 ± 0.79	8.27 ± 0.31
bn140623224	3.22E-06 ± 4.78E-08	3.92 ± 1.18	2.74 ± 0.48	1.79 ± 0.20
bn140624423	2.42E-07 ± 9.53E-09	19.15 ± 1.29	5.96 ± 0.45	1.52 ± 0.17
bn140626843	9.93E-07 ± 3.78E-08	10.06 ± 2.12	8.45 ± 0.88	7.12 ± 0.41
bn140627401	9.00E-07 ± 5.98E-08	5.60 ± 1.35	4.14 ± 0.29	2.98 ± 0.25
bn140628626	1.47E-06 ± 6.23E-08	4.37 ± 1.25	3.63 ± 0.42	2.41 ± 0.24
bn140628704	1.82E-06 ± 9.89E-08	6.09 ± 1.75	4.21 ± 0.40	2.64 ± 0.34
bn140630505	7.63E-06 ± 7.69E-08	4.51 ± 1.17	3.13 ± 0.51	2.42 ± 0.21
bn140701567	2.65E-06 ± 3.93E-08	3.83 ± 1.26	2.76 ± 0.51	2.04 ± 0.22
bn140701833	2.61E-06 ± 5.18E-08	17.41 ± 1.62	14.34 ± 0.78	9.17 ± 0.36
bn140703026	7.57E-06 ± 5.09E-08	5.59 ± 0.98	4.44 ± 0.46	4.05 ± 0.23
bn140705539	3.18E-06 ± 4.82E-08	3.66 ± 0.92	2.95 ± 0.44	2.67 ± 0.21
bn140706815	2.49E-06 ± 7.80E-08	4.84 ± 1.13	3.91 ± 0.53	2.95 ± 0.26
bn140709051	7.35E-06 ± 1.85E-07	7.67 ± 1.62	6.16 ± 0.74	5.24 ± 0.34
bn140709637	7.36E-06 ± 6.34E-08	3.22 ± 0.92	2.70 ± 0.41	2.12 ± 0.18
bn140710537	3.83E-07 ± 7.14E-09	7.64 ± 1.50	4.33 ± 0.57	1.51 ± 0.23
bn140710901	1.40E-06 ± 4.77E-08	5.16 ± 1.20	3.72 ± 0.62	2.45 ± 0.27
bn140711691	2.39E-06 ± 1.13E-07	4.44 ± 1.28	2.50 ± 0.54	1.33 ± 0.26



Table 8. GRB Fluence & Peak Flux (50–300 keV)

Trigger ID	Fluence (erg cm <sup>-2</sup> )	PF64 (ph cm <sup>-2</sup> s <sup>-1</sup> )	PF256 (ph cm <sup>-2</sup> s <sup>-1</sup> )	PF1024 (ph cm <sup>-2</sup> s <sup>-1</sup> )
bn080714086	3.54E-07 ± 1.73E-08	1.52 ± 0.74	0.91 ± 0.36	0.43 ± 0.18
bn080714425	9.79E-07 ± 1.36E-08	1.03 ± 0.45	0.71 ± 0.19	0.46 ± 0.08
bn080714745	3.26E-06 ± 6.03E-08	4.41 ± 1.66	3.27 ± 0.71	2.82 ± 0.36
bn080715950	2.54E-06 ± 3.52E-08	10.70 ± 0.95	6.61 ± 0.45	3.83 ± 0.22
bn080717543	2.37E-06 ± 4.51E-08	2.14 ± 1.03	1.30 ± 0.47	1.05 ± 0.23
bn080719529	3.88E-07 ± 1.47E-08	0.59 ± 0.18	0.32 ± 0.08	0.23 ± 0.04
bn080720316	3.88E-07 ± 1.47E-08	0.59 ± 0.18	0.32 ± 0.08	0.23 ± 0.04
bn080723557	3.92E-05 ± 1.15E-07	21.19 ± 1.79	19.81 ± 1.09	15.14 ± 0.48
bn080723913	7.45E-08 ± 5.19E-09	2.62 ± 0.66	2.14 ± 0.32	0.69 ± 0.13
bn080723985	1.57E-05 ± 1.07E-07	5.92 ± 1.23	5.17 ± 0.54	4.85 ± 0.28
bn080724401	8.65E-06 ± 2.51E-08	10.71 ± 0.66	8.75 ± 0.30	4.76 ± 0.12
bn080725435	4.18E-06 ± 2.29E-08	2.48 ± 0.77	1.64 ± 0.32	1.38 ± 0.17
bn080725541	2.57E-07 ± 2.20E-08	2.99 ± 0.78	2.32 ± 0.36	0.92 ± 0.13
bn080727964	6.45E-06 ± 4.22E-08	2.65 ± 0.48	2.17 ± 0.33	1.71 ± 0.17
bn080730520	3.00E-06 ± 5.87E-08	3.70 ± 0.75	2.81 ± 0.41	2.48 ± 0.21
bn080730786	3.96E-06 ± 4.39E-08	8.75 ± 0.90	8.50 ± 0.45	7.06 ± 0.22
bn080802386	2.54E-07 ± 3.46E-09	6.33 ± 1.12	3.48 ± 0.50	1.38 ± 0.22
bn080803772	2.66E-06 ± 3.19E-08	1.86 ± 0.35	1.38 ± 0.29	1.11 ± 0.11
bn080804456	4.42E-06 ± 4.99E-08	1.62 ± 0.60	0.96 ± 0.27	0.76 ± 0.14
bn080804972	5.29E-06 ± 5.50E-08	2.52 ± 0.68	2.08 ± 0.37	1.85 ± 0.16
bn080805496	6.82E-07 ± 2.22E-08	1.10 ± 0.37	0.78 ± 0.17	0.47 ± 0.07
bn080805584	2.27E-06 ± 3.37E-08	1.66 ± 0.78	0.76 ± 0.32	0.51 ± 0.18
bn080806584	2.38E-07 ± 1.13E-08	1.19 ± 0.62	1.08 ± 0.32	0.75 ± 0.16
bn080806896	6.16E-06 ± 1.01E-07	3.83 ± 0.85	3.51 ± 0.42	2.72 ± 0.21
bn080807993	2.75E-06 ± 2.96E-08	9.23 ± 0.82	7.14 ± 0.39	4.12 ± 0.18
bn080808451	4.11E-07 ± 2.18E-08	1.21 ± 0.45	0.91 ± 0.23	0.72 ± 0.14
bn080808565	2.13E-06 ± 2.22E-08	2.45 ± 0.74	1.83 ± 0.44	1.67 ± 0.20
bn080808772	3.87E-06 ± 4.05E-08	1.41 ± 0.69	0.74 ± 0.35	0.45 ± 0.17
bn080809808	2.06E-06 ± 2.34E-08	2.59 ± 1.19	1.96 ± 0.58	1.23 ± 0.26
bn080810549	6.03E-06 ± 2.43E-08	2.56 ± 0.52	2.10 ± 0.23	1.36 ± 0.09
bn080812889	1.57E-06 ± 1.92E-08	1.68 ± 0.71	1.27 ± 0.37	0.82 ± 0.18
bn080815917	2.78E-07 ± 1.50E-08	2.62 ± 0.88	2.09 ± 0.46	1.40 ± 0.20

Table 8—Continued

Trigger ID	Fluence (erg cm <sup>-2</sup> )	PF64 (ph cm <sup>-2</sup> s <sup>-1</sup> )	PF256 (ph cm <sup>-2</sup> s <sup>-1</sup> )	PF1024 (ph cm <sup>-2</sup> s <sup>-1</sup> )
bn080816503	8.23E-06 ± 5.04E-08	5.64 ± 0.71	4.38 ± 0.35	3.06 ± 0.18
bn080816989	8.14E-07 ± 2.50E-08	4.11 ± 0.62	3.22 ± 0.29	2.25 ± 0.13
bn080817161	2.56E-05 ± 3.50E-08	8.14 ± 1.04	6.94 ± 0.52	6.65 ± 0.24
bn080817720	5.51E-07 ± 1.13E-08	4.17 ± 0.92	2.02 ± 0.53	1.38 ± 0.21
bn080818579	2.10E-06 ± 3.33E-08	3.71 ± 0.77	3.03 ± 0.40	2.14 ± 0.19
bn080818945	8.43E-07 ± 1.07E-08	2.41 ± 0.73	1.60 ± 0.43	1.20 ± 0.19
bn080821332	2.20E-06 ± 1.07E-08	5.49 ± 1.03	4.80 ± 0.59	4.31 ± 0.27
bn080823363	3.19E-06 ± 2.20E-08	2.23 ± 0.79	1.72 ± 0.46	1.39 ± 0.21
bn080824909	1.58E-06 ± 3.47E-08	5.94 ± 0.96	5.14 ± 0.52	2.93 ± 0.23
bn080825593	2.05E-05 ± 5.81E-08	16.65 ± 1.09	15.29 ± 0.60	12.66 ± 0.27
bn080828189	3.05E-07 ± 1.10E-08	2.12 ± 0.53	1.86 ± 0.29	0.76 ± 0.12
bn080829790	1.36E-06 ± 1.33E-08	2.77 ± 0.99	2.12 ± 0.54	1.71 ± 0.24
bn080830368	3.83E-06 ± 6.16E-08	2.99 ± 0.73	2.57 ± 0.38	2.29 ± 0.18
bn080831053	3.91E-08 ± 9.59E-09	2.68 ± 0.58	0.51 ± 0.22	0.15 ± 0.10
bn080831921	5.09E-06 ± 2.44E-08	2.24 ± 0.93	1.46 ± 0.49	1.24 ± 0.21
bn080904886	2.13E-06 ± 3.72E-08	3.79 ± 1.23	3.63 ± 0.57	2.92 ± 0.28
bn080905499	3.17E-07 ± 1.25E-08	4.55 ± 0.57	3.09 ± 0.31	1.31 ± 0.14
bn080905570	2.27E-06 ± 3.05E-08	1.81 ± 1.22	1.55 ± 0.57	1.19 ± 0.27
bn080905705	1.61E-06 ± 2.07E-08	1.13 ± 0.42	0.79 ± 0.16	0.58 ± 0.07
bn080906212	3.86E-06 ± 7.35E-08	13.02 ± 0.75	12.23 ± 0.37	10.19 ± 0.17
bn080912360	1.10E-06 ± 1.67E-08	1.23 ± 0.58	0.94 ± 0.29	0.78 ± 0.15
bn080913735	2.12E-06 ± 4.71E-08	2.70 ± 0.81	1.92 ± 0.40	1.32 ± 0.18
bn080916009	2.75E-05 ± 3.80E-08	7.32 ± 0.69	6.92 ± 0.33	6.28 ± 0.16
bn080916406	4.73E-06 ± 4.63E-08	4.20 ± 0.67	2.74 ± 0.30	2.08 ± 0.13
bn080919790	2.36E-08 ± 2.95E-09	0.99 ± 0.30	0.57 ± 0.12	0.15 ± 0.05
bn080920268	9.41E-07 ± 2.87E-08	1.19 ± 0.57	0.68 ± 0.24	0.50 ± 0.11
bn080924766	2.52E-06 ± 3.56E-08	2.29 ± 0.69	1.96 ± 0.36	1.61 ± 0.17
bn080925775	1.02E-05 ± 2.27E-08	8.58 ± 0.91	7.70 ± 0.46	6.90 ± 0.23
bn080927480	1.67E-06 ± 5.31E-08	1.44 ± 0.44	1.01 ± 0.22	0.64 ± 0.08
bn080928628	5.97E-07 ± 1.61E-08	1.69 ± 0.31	1.30 ± 0.16	0.83 ± 0.07
bn081003644	3.49E-06 ± 3.79E-08	2.56 ± 0.98	2.07 ± 0.46	1.03 ± 0.22
bn081006604	3.77E-07 ± 9.95E-09	3.06 ± 0.62	1.41 ± 0.30	0.47 ± 0.07

Table 8—Continued

Trigger ID	Fluence (erg cm <sup>-2</sup> )	PF64 (ph cm <sup>-2</sup> s <sup>-1</sup> )	PF256 (ph cm <sup>-2</sup> s <sup>-1</sup> )	PF1024 (ph cm <sup>-2</sup> s <sup>-1</sup> )
bn081006872	2.39E-07 ± 1.10E-08	1.99 ± 0.50	0.99 ± 0.17	0.45 ± 0.07
bn081008832	4.73E-06 ± 6.06E-08	1.73 ± 0.79	1.13 ± 0.30	0.92 ± 0.15
bn081009140	1.40E-05 ± 1.63E-08	39.93 ± 2.49	36.75 ± 1.23	30.43 ± 0.61
bn081009690	6.21E-06 ± 4.08E-08	3.98 ± 1.09	3.22 ± 0.46	2.83 ± 0.22
bn081012045	1.33E-07 ± 2.43E-08	1.82 ± 0.37	1.31 ± 0.15	0.89 ± 0.07
bn081012549	1.80E-06 ± 4.24E-08	1.45 ± 0.69	1.02 ± 0.31	0.90 ± 0.13
bn081017474	7.33E-07 ± 1.15E-08	1.78 ± 0.45	0.91 ± 0.17	0.69 ± 0.08
bn081021398	3.62E-06 ± 5.75E-08	2.86 ± 1.07	2.24 ± 0.47	1.81 ± 0.23
bn081022364	7.17E-07 ± 1.88E-08	1.41 ± 0.38	0.99 ± 0.19	0.79 ± 0.09
bn081024245	7.88E-08 ± 9.11E-09	3.78 ± 0.81	1.50 ± 0.24	0.57 ± 0.09
bn081024851	3.44E-06 ± 3.78E-08	1.82 ± 0.73	1.02 ± 0.37	0.70 ± 0.18
bn081024891	2.07E-07 ± 1.41E-08	3.60 ± 0.56	1.93 ± 0.26	1.07 ± 0.14
bn081025349	3.32E-06 ± 5.82E-08	2.98 ± 0.68	2.60 ± 0.36	2.14 ± 0.17
bn081028538	1.28E-06 ± 1.52E-08	3.14 ± 0.85	2.63 ± 0.43	2.01 ± 0.21
bn081101167	7.26E-07 ± 3.24E-08	1.73 ± 0.53	0.92 ± 0.26	0.58 ± 0.12
bn081101491	8.60E-08 ± 1.50E-09	3.32 ± 0.80	1.75 ± 0.37	0.43 ± 0.15
bn081101532	6.81E-06 ± 1.39E-07	6.24 ± 1.39	5.64 ± 0.64	4.96 ± 0.31
bn081102365	5.21E-07 ± 1.81E-08	2.91 ± 0.57	2.27 ± 0.29	1.38 ± 0.14
bn081102739	2.28E-06 ± 5.56E-08	1.83 ± 0.76	1.34 ± 0.40	0.92 ± 0.17
bn081105614	8.46E-08 ± 8.58E-09	3.50 ± 0.69	1.21 ± 0.24	0.32 ± 0.09
bn081107321	6.78E-07 ± 1.59E-08	5.08 ± 0.79	4.39 ± 0.40	3.05 ± 0.19
bn081109293	3.39E-06 ± 2.80E-08	1.70 ± 0.70	1.07 ± 0.40	0.79 ± 0.19
bn081110601	3.06E-06 ± 4.74E-08	11.00 ± 1.02	9.31 ± 0.57	7.13 ± 0.27
bn081113230	1.75E-07 ± 1.85E-08	3.96 ± 0.99	2.78 ± 0.47	1.15 ± 0.18
bn081115891	4.63E-08 ± 6.74E-09	2.70 ± 0.50	0.97 ± 0.15	0.35 ± 0.05
bn081118876	2.71E-06 ± 1.99E-08	3.41 ± 0.77	2.59 ± 0.37	2.32 ± 0.18
bn081119184	6.14E-08 ± 9.29E-09	2.43 ± 0.65	1.11 ± 0.22	0.42 ± 0.08
bn081120618	8.64E-07 ± 1.04E-08	1.67 ± 0.45	1.38 ± 0.22	1.20 ± 0.11
bn081121858	8.47E-06 ± 1.20E-07	7.16 ± 1.25	5.69 ± 0.75	3.50 ± 0.37
bn081122520	4.61E-06 ± 4.46E-08	9.44 ± 1.05	8.97 ± 0.52	6.09 ± 0.24
bn081122614	7.05E-08 ± 4.38E-09	3.62 ± 0.51	1.86 ± 0.19	0.45 ± 0.06
bn081124060	2.07E-06 ± 2.86E-08	2.17 ± 1.15	2.14 ± 0.55	1.74 ± 0.30

Table 8—Continued

Trigger ID	Fluence (erg cm <sup>-2</sup> )	PF64 (ph cm <sup>-2</sup> s <sup>-1</sup> )	PF256 (ph cm <sup>-2</sup> s <sup>-1</sup> )	PF1024 (ph cm <sup>-2</sup> s <sup>-1</sup> )
bn081125496	1.10E-05 ± 8.32E-08	14.90 ± 1.83	14.47 ± 0.90	12.76 ± 0.43
bn081126899	5.37E-06 ± 3.22E-08	4.28 ± 0.81	3.72 ± 0.39	3.34 ± 0.19
bn081129161	8.46E-06 ± 7.31E-08	9.78 ± 1.26	9.09 ± 0.64	6.91 ± 0.31
bn081130212	9.50E-08 ± 1.20E-08	1.22 ± 0.47	0.86 ± 0.20	0.41 ± 0.08
bn081130629	1.84E-06 ± 2.98E-08	2.72 ± 0.80	1.94 ± 0.37	1.72 ± 0.19
bn081204004	7.08E-07 ± 3.46E-08	2.77 ± 0.66	2.05 ± 0.30	1.45 ± 0.15
bn081204517	1.75E-07 ± 8.22E-09	6.45 ± 0.83	3.26 ± 0.36	0.93 ± 0.13
bn081206275	2.52E-06 ± 4.39E-08	2.01 ± 0.80	1.30 ± 0.41	0.89 ± 0.16
bn081206604	2.62E-07 ± 1.86E-08	0.66 ± 0.24	0.54 ± 0.12	0.45 ± 0.06
bn081206987	6.49E-07 ± 1.77E-08	0.85 ± 0.41	0.60 ± 0.14	0.41 ± 0.06
bn081207680	2.61E-05 ± 5.93E-08	3.34 ± 0.73	2.74 ± 0.34	2.41 ± 0.17
bn081209981	4.17E-07 ± 6.89E-09	11.82 ± 1.21	6.88 ± 0.54	1.82 ± 0.22
bn081213173	5.63E-08 ± 9.37E-09	2.96 ± 0.58	1.19 ± 0.20	0.36 ± 0.06
bn081215784	2.32E-05 ± 2.51E-08	70.61 ± 2.13	57.89 ± 1.00	31.29 ± 0.39
bn081215880	1.04E-06 ± 1.66E-08	3.08 ± 0.74	2.33 ± 0.34	1.33 ± 0.13
bn081216531	9.46E-07 ± 3.24E-08	16.66 ± 1.27	13.12 ± 0.57	4.17 ± 0.21
bn081217983	5.29E-06 ± 7.06E-08	3.50 ± 0.64	2.98 ± 0.30	2.67 ± 0.16
bn081221681	1.78E-05 ± 3.72E-08	12.01 ± 1.36	11.38 ± 0.64	11.06 ± 0.32
bn081222204	6.94E-06 ± 5.26E-08	6.63 ± 0.93	5.93 ± 0.45	5.30 ± 0.23
bn081223419	5.04E-07 ± 9.49E-09	7.70 ± 0.88	6.76 ± 0.42	2.68 ± 0.18
bn081224887	1.69E-05 ± 7.74E-08	13.46 ± 1.08	13.18 ± 0.55	12.85 ± 0.27
bn081225257	2.35E-06 ± 3.02E-08	1.30 ± 0.63	0.76 ± 0.29	0.64 ± 0.14
bn081226044	2.07E-07 ± 1.46E-08	3.32 ± 0.83	2.97 ± 0.39	1.04 ± 0.13
bn081226156	1.60E-06 ± 7.59E-09	1.45 ± 0.59	0.91 ± 0.37	0.75 ± 0.19
bn081226509	1.93E-07 ± 7.25E-09	5.13 ± 0.78	3.46 ± 0.33	0.95 ± 0.13
bn081229187	2.81E-07 ± 3.55E-08	2.66 ± 0.60	2.27 ± 0.33	0.75 ± 0.16
bn081229675	2.81E-07 ± 3.55E-08	2.66 ± 0.60	2.27 ± 0.33	0.75 ± 0.16
bn081230871	9.14E-08 ± 7.74E-09	2.37 ± 0.62	0.98 ± 0.30	0.51 ± 0.15
bn081231140	9.08E-06 ± 6.37E-08	7.30 ± 1.05	6.62 ± 0.50	4.96 ± 0.23
bn090101758	6.96E-06 ± 6.05E-08	6.44 ± 0.95	5.52 ± 0.55	4.84 ± 0.28
bn090102122	1.30E-05 ± 3.02E-08	10.01 ± 0.97	8.50 ± 0.47	6.45 ± 0.21
bn090107681	1.71E-06 ± 5.67E-08	2.37 ± 1.63	1.62 ± 0.69	0.97 ± 0.33



Table 8—Continued

Trigger ID	Fluence (erg cm <sup>-2</sup> )	PF64 (ph cm <sup>-2</sup> s <sup>-1</sup> )	PF256 (ph cm <sup>-2</sup> s <sup>-1</sup> )	PF1024 (ph cm <sup>-2</sup> s <sup>-1</sup> )
bn090108020	5.17E-07 ± 9.23E-09	13.13 ± 0.75	8.97 ± 0.32	3.09 ± 0.11
bn090108322	1.83E-07 ± 7.72E-09	4.65 ± 0.68	3.46 ± 0.29	0.90 ± 0.09
bn090109332	1.07E-07 ± 9.15E-09	1.94 ± 0.82	1.00 ± 0.47	0.48 ± 0.22
bn090112332	2.15E-06 ± 3.66E-08	3.44 ± 0.60	2.78 ± 0.27	1.84 ± 0.11
bn090112729	5.54E-06 ± 5.44E-08	7.42 ± 1.32	7.13 ± 0.63	5.86 ± 0.29
bn090113778	8.27E-07 ± 2.60E-08	3.61 ± 0.71	2.56 ± 0.36	1.69 ± 0.17
bn090117335	6.96E-07 ± 2.37E-08	1.97 ± 0.50	1.55 ± 0.23	1.24 ± 0.11
bn090117632	6.00E-06 ± 8.74E-08	2.39 ± 0.62	1.72 ± 0.35	1.44 ± 0.17
bn090117640	9.85E-07 ± 2.16E-08	2.82 ± 0.98	2.68 ± 0.49	1.74 ± 0.21
bn090120627	3.82E-07 ± 1.07E-08	2.54 ± 0.63	1.66 ± 0.30	0.93 ± 0.15
bn090126227	4.92E-07 ± 9.30E-09	1.47 ± 0.67	0.93 ± 0.37	0.77 ± 0.18
bn090126245	2.02E-07 ± 1.06E-08	2.41 ± 0.48	1.39 ± 0.23	0.86 ± 0.11
bn090129880	2.70E-06 ± 2.81E-08	3.92 ± 0.77	2.88 ± 0.43	2.66 ± 0.21
bn090131090	8.64E-06 ± 2.82E-08	13.77 ± 1.52	12.75 ± 0.74	9.21 ± 0.35
bn090202347	2.93E-06 ± 1.37E-08	4.00 ± 0.77	3.49 ± 0.40	2.74 ± 0.20
bn090206620	2.61E-07 ± 6.55E-09	6.58 ± 0.73	4.33 ± 0.31	1.21 ± 0.09
bn090207777	1.43E-06 ± 2.25E-08	1.86 ± 0.40	1.37 ± 0.18	0.91 ± 0.07
bn090213236	6.61E-07 ± 3.28E-08	1.33 ± 0.43	0.84 ± 0.20	0.47 ± 0.10
bn090217206	1.14E-05 ± 1.79E-08	6.91 ± 0.69	5.52 ± 0.32	4.51 ± 0.14
bn090219074	9.30E-08 ± 2.58E-08	2.78 ± 0.97	1.58 ± 0.40	0.68 ± 0.15
bn090222179	1.93E-06 ± 3.04E-08	2.16 ± 0.70	1.67 ± 0.33	1.29 ± 0.17
bn090225009	7.22E-08 ± 8.10E-09	1.05 ± 0.68	0.64 ± 0.13	0.29 ± 0.07
bn090227310	1.50E-06 ± 1.17E-08	3.91 ± 0.61	1.75 ± 0.20	1.25 ± 0.09
bn090227772	1.86E-06 ± 2.34E-08	38.97 ± 4.66	25.90 ± 1.27	7.30 ± 0.33
bn090228204	1.76E-06 ± 1.32E-08	60.99 ± 2.19	25.46 ± 0.70	7.22 ± 0.19
bn090228976	5.42E-07 ± 3.88E-08	1.14 ± 0.38	0.83 ± 0.15	0.60 ± 0.08
bn090301315	1.14E-06 ± 1.62E-08	2.06 ± 0.63	1.58 ± 0.35	1.34 ± 0.18
bn090304216	4.80E-07 ± 5.26E-08	1.80 ± 0.52	1.28 ± 0.36	0.84 ± 0.14
bn090305052	7.73E-07 ± 6.47E-09	4.89 ± 0.51	4.08 ± 0.28	2.68 ± 0.15
bn090306245	7.13E-07 ± 1.93E-08	1.27 ± 0.35	0.67 ± 0.15	0.41 ± 0.06
bn090307167	5.54E-07 ± 2.03E-08	0.81 ± 0.26	0.46 ± 0.17	0.32 ± 0.06
bn090308734	1.01E-06 ± 1.36E-08	6.20 ± 0.71	4.78 ± 0.34	3.04 ± 0.17

Table 8—Continued

Trigger ID	Fluence (erg cm <sup>-2</sup> )	PF64 (ph cm <sup>-2</sup> s <sup>-1</sup> )	PF256 (ph cm <sup>-2</sup> s <sup>-1</sup> )	PF1024 (ph cm <sup>-2</sup> s <sup>-1</sup> )
bn090309767	2.28E-06 ± 3.76E-08	2.00 ± 0.74	1.30 ± 0.43	1.00 ± 0.19
bn090310189	3.00E-06 ± 3.28E-08	2.90 ± 0.80	1.83 ± 0.40	1.39 ± 0.20
bn090316311	5.72E-07 ± 1.09E-08	4.25 ± 0.52	3.05 ± 0.29	1.17 ± 0.11
bn090319622	3.49E-06 ± 3.38E-08	2.12 ± 0.49	1.39 ± 0.18	0.99 ± 0.09
bn090320045	2.49E-07 ± 1.15E-08	0.93 ± 0.58	0.80 ± 0.25	0.55 ± 0.13
bn090320418	4.96E-07 ± 1.77E-08	1.49 ± 0.49	1.05 ± 0.31	0.74 ± 0.14
bn090320801	8.84E-07 ± 3.26E-08	2.00 ± 0.47	1.50 ± 0.21	0.99 ± 0.10
bn090323002	5.32E-05 ± 8.35E-08	8.41 ± 0.81	7.31 ± 0.40	6.24 ± 0.20
bn090326633	8.79E-07 ± 3.09E-08	1.90 ± 0.82	1.54 ± 0.45	1.27 ± 0.22
bn090327404	1.57E-06 ± 2.92E-08	1.65 ± 0.70	1.20 ± 0.31	0.98 ± 0.17
bn090328401	1.97E-05 ± 3.81E-08	11.90 ± 0.84	11.06 ± 0.41	8.30 ± 0.18
bn090328713	7.15E-08 ± 1.02E-08	5.80 ± 0.55	2.53 ± 0.20	0.61 ± 0.06
bn090330279	6.53E-06 ± 2.23E-08	3.22 ± 0.74	2.91 ± 0.35	2.23 ± 0.18
bn090331681	1.73E-07 ± 1.74E-08	3.98 ± 0.82	1.93 ± 0.35	1.00 ± 0.16
bn090403314	6.33E-07 ± 1.07E-08	1.41 ± 0.40	0.77 ± 0.13	0.49 ± 0.06
bn090405663	1.43E-07 ± 1.56E-08	4.00 ± 0.53	2.35 ± 0.23	0.71 ± 0.10
bn090409288	5.68E-07 ± 3.07E-08	1.12 ± 0.75	0.95 ± 0.38	0.44 ± 0.18
bn090411838	3.80E-06 ± 6.37E-08	4.45 ± 0.88	3.65 ± 0.49	2.65 ± 0.22
bn090411991	3.59E-06 ± 5.61E-08	3.84 ± 0.96	3.02 ± 0.50	2.04 ± 0.25
bn090412061	7.36E-08 ± 7.83E-09	2.37 ± 0.57	1.70 ± 0.24	0.45 ± 0.10
bn090413122	1.97E-06 ± 2.71E-08	2.50 ± 0.67	2.06 ± 0.33	1.32 ± 0.16
bn090418816	9.99E-08 ± 1.72E-08	3.10 ± 0.56	1.85 ± 0.25	0.74 ± 0.11
bn090419997	5.65E-06 ± 1.15E-07	1.79 ± 0.59	1.38 ± 0.29	1.24 ± 0.16
bn090422150	2.67E-07 ± 1.84E-08	1.71 ± 0.43	1.47 ± 0.22	0.80 ± 0.10
bn090423330	4.36E-07 ± 4.05E-08	1.26 ± 0.47	0.79 ± 0.20	0.58 ± 0.10
bn090424592	2.80E-05 ± 2.02E-08	64.98 ± 1.88	58.04 ± 0.99	45.97 ± 0.49
bn090425377	8.04E-06 ± 6.66E-08	6.71 ± 1.79	5.62 ± 0.79	4.64 ± 0.39
bn090426066	3.75E-07 ± 2.04E-08	1.40 ± 0.33	1.00 ± 0.16	0.78 ± 0.08
bn090426690	1.41E-06 ± 3.04E-08	3.03 ± 0.78	2.71 ± 0.41	2.29 ± 0.19
bn090427644	1.52E-07 ± 9.99E-09	1.42 ± 0.60	1.08 ± 0.29	0.76 ± 0.15
bn090427688	9.36E-07 ± 1.58E-08	1.75 ± 0.48	0.91 ± 0.20	0.63 ± 0.08
bn090428441	6.16E-07 ± 3.67E-08	5.08 ± 0.90	3.92 ± 0.50	2.26 ± 0.25

Table 8—Continued

Trigger ID	Fluence (erg cm <sup>-2</sup> )	PF64 (ph cm <sup>-2</sup> s <sup>-1</sup> )	PF256 (ph cm <sup>-2</sup> s <sup>-1</sup> )	PF1024 (ph cm <sup>-2</sup> s <sup>-1</sup> )
bn090428552	2.80E-06 ± 6.16E-08	2.51 ± 0.96	2.09 ± 0.53	1.76 ± 0.27
bn090429530	1.67E-06 ± 5.07E-08	2.37 ± 1.16	1.59 ± 0.46	1.24 ± 0.22
bn090429753	3.93E-07 ± 1.41E-08	3.78 ± 0.83	3.27 ± 0.36	1.77 ± 0.15
bn090502777	1.73E-06 ± 1.60E-08	2.91 ± 0.51	2.23 ± 0.23	1.39 ± 0.10
bn090509215	3.22E-06 ± 5.03E-08	2.06 ± 0.72	1.41 ± 0.32	1.10 ± 0.17
bn090510016	9.01E-07 ± 1.03E-08	16.22 ± 1.58	8.99 ± 0.75	3.82 ± 0.24
bn090510325	3.17E-07 ± 1.56E-08	0.81 ± 0.32	0.65 ± 0.15	0.47 ± 0.07
bn090511684	8.25E-07 ± 2.34E-08	1.94 ± 0.68	1.44 ± 0.36	1.17 ± 0.19
bn090513916	2.68E-06 ± 9.18E-08	2.12 ± 0.77	1.73 ± 0.41	1.08 ± 0.16
bn090513941	4.83E-07 ± 1.43E-08	0.94 ± 0.34	0.64 ± 0.16	0.41 ± 0.09
bn090514006	3.34E-06 ± 5.32E-08	4.05 ± 0.75	3.11 ± 0.42	2.74 ± 0.19
bn090514726	1.30E-06 ± 1.87E-08	7.18 ± 1.03	6.57 ± 0.56	4.06 ± 0.26
bn090514734	4.99E-06 ± 9.65E-08	2.22 ± 0.97	1.64 ± 0.49	1.22 ± 0.24
bn090516137	9.68E-06 ± 9.67E-08	1.97 ± 0.65	1.41 ± 0.33	1.25 ± 0.16
bn090516353	9.11E-06 ± 2.60E-08	2.61 ± 1.01	1.77 ± 0.43	1.27 ± 0.23
bn090516853	2.25E-06 ± 3.67E-08	4.90 ± 1.07	4.09 ± 0.50	3.31 ± 0.24
bn090518080	4.28E-07 ± 1.02E-08	1.95 ± 1.15	1.48 ± 0.57	1.32 ± 0.31
bn090518244	1.38E-06 ± 4.50E-08	3.85 ± 1.00	3.06 ± 0.45	2.19 ± 0.22
bn090519462	2.12E-06 ± 2.28E-08	1.65 ± 0.91	1.49 ± 0.37	1.02 ± 0.19
bn090519881	1.81E-06 ± 2.24E-08	1.15 ± 0.62	0.76 ± 0.32	0.46 ± 0.15
bn090520832	1.61E-07 ± 1.39E-08	2.76 ± 1.01	1.79 ± 0.43	0.87 ± 0.19
bn090520850	2.06E-06 ± 5.56E-08	4.29 ± 1.00	2.90 ± 0.43	2.48 ± 0.21
bn090520876	2.65E-06 ± 2.24E-08	2.71 ± 0.86	2.32 ± 0.46	1.93 ± 0.23
bn090522344	8.84E-07 ± 1.80E-08	1.95 ± 0.81	1.45 ± 0.38	1.05 ± 0.20
bn090524346	9.49E-06 ± 3.72E-08	6.43 ± 0.85	6.22 ± 0.44	5.77 ± 0.22
bn090528173	2.78E-06 ± 4.64E-08	2.18 ± 0.84	1.41 ± 0.42	1.00 ± 0.20
bn090528516	2.45E-05 ± 4.42E-08	8.45 ± 0.85	7.38 ± 0.45	5.50 ± 0.21
bn090529310	5.64E-07 ± 1.85E-08	1.94 ± 0.72	1.57 ± 0.33	1.24 ± 0.16
bn090529564	4.85E-06 ± 1.91E-08	15.73 ± 1.15	12.99 ± 0.56	10.53 ± 0.27
bn090530760	3.14E-05 ± 8.32E-08	6.11 ± 0.90	5.47 ± 0.46	4.94 ± 0.23
bn090531775	1.60E-07 ± 1.10E-08	2.74 ± 0.56	1.61 ± 0.22	1.06 ± 0.09
bn090602564	1.15E-06 ± 2.79E-08	1.10 ± 0.57	0.73 ± 0.14	0.51 ± 0.08

Table 8—Continued

Trigger ID	Fluence (erg cm <sup>-2</sup> )	PF64 (ph cm <sup>-2</sup> s <sup>-1</sup> )	PF256 (ph cm <sup>-2</sup> s <sup>-1</sup> )	PF1024 (ph cm <sup>-2</sup> s <sup>-1</sup> )
bn090606471	5.60E-07 ± 4.43E-08	2.48 ± 1.16	1.17 ± 0.47	0.74 ± 0.22
bn090608052	6.16E-07 ± 7.98E-09	1.44 ± 0.80	1.07 ± 0.36	0.67 ± 0.17
bn090610648	7.45E-07 ± 3.21E-08	1.90 ± 0.65	1.63 ± 0.29	1.48 ± 0.15
bn090610723	2.23E-06 ± 3.41E-08	1.49 ± 0.46	0.82 ± 0.17	0.59 ± 0.07
bn090610883	3.92E-07 ± 1.20E-08	1.02 ± 0.52	0.84 ± 0.21	0.54 ± 0.09
bn090612619	3.29E-06 ± 4.03E-08	4.22 ± 0.96	3.40 ± 0.47	3.22 ± 0.23
bn090616157	2.03E-07 ± 1.17E-08	1.57 ± 0.70	1.46 ± 0.32	0.98 ± 0.15
bn090617208	3.59E-07 ± 8.17E-09	9.74 ± 0.81	5.99 ± 0.38	1.52 ± 0.14
bn090618353	1.42E-04 ± 2.33E-07	35.50 ± 2.57	32.42 ± 1.25	29.98 ± 0.61
bn090620400	9.18E-06 ± 2.61E-08	13.18 ± 0.78	11.50 ± 0.38	9.75 ± 0.18
bn090620901	2.32E-07 ± 1.65E-08	1.76 ± 0.71	1.36 ± 0.29	1.06 ± 0.14
bn090621185	5.42E-06 ± 1.11E-07	1.93 ± 0.71	1.28 ± 0.38	1.03 ± 0.19
bn090621417	2.07E-06 ± 4.99E-08	2.36 ± 0.70	1.87 ± 0.36	1.41 ± 0.17
bn090621447	8.38E-07 ± 2.47E-08	1.37 ± 0.36	0.97 ± 0.17	0.71 ± 0.07
bn090621922	1.97E-07 ± 1.16E-08	5.80 ± 0.91	2.96 ± 0.37	0.92 ± 0.12
bn090623107	5.58E-06 ± 3.70E-08	5.01 ± 0.77	4.44 ± 0.38	3.23 ± 0.18
bn090623913	1.30E-06 ± 3.06E-08	2.59 ± 0.51	2.01 ± 0.22	1.16 ± 0.08
bn090625234	8.37E-07 ± 7.05E-09	1.45 ± 0.47	0.86 ± 0.25	0.59 ± 0.13
bn090625560	1.49E-06 ± 4.43E-08	2.72 ± 1.20	1.91 ± 0.53	1.27 ± 0.26
bn090626189	3.38E-05 ± 5.85E-08	27.26 ± 1.85	23.93 ± 0.83	16.05 ± 0.35
bn090626707	3.38E-05 ± 5.85E-08	27.26 ± 1.85	23.93 ± 0.83	16.05 ± 0.35
bn090629543	2.23E-07 ± 1.39E-08	0.80 ± 0.34	0.48 ± 0.17	0.25 ± 0.06
bn090630311	5.42E-07 ± 6.37E-09	2.79 ± 0.83	2.29 ± 0.41	1.84 ± 0.20
bn090701225	2.32E-07 ± 9.12E-09	1.69 ± 0.72	1.29 ± 0.36	1.05 ± 0.18
bn090703329	4.51E-07 ± 1.57E-08	1.84 ± 0.45	1.26 ± 0.21	0.74 ± 0.08
bn090704242	4.17E-06 ± 4.60E-08	2.60 ± 0.88	1.19 ± 0.45	0.77 ± 0.21
bn090704783	8.34E-07 ± 1.96E-08	1.03 ± 0.43	0.77 ± 0.21	0.57 ± 0.08
bn090706283	3.15E-06 ± 3.66E-08	1.54 ± 0.97	0.86 ± 0.43	0.61 ± 0.24
bn090708152	5.26E-07 ± 1.67E-08	0.78 ± 0.32	0.54 ± 0.14	0.37 ± 0.05
bn090709630	1.28E-06 ± 2.40E-08	2.04 ± 0.60	1.58 ± 0.30	1.34 ± 0.15
bn090711850	2.89E-06 ± 4.31E-08	2.73 ± 0.79	1.71 ± 0.44	1.48 ± 0.21
bn090712160	4.18E-06 ± 1.48E-07	1.95 ± 0.66	0.87 ± 0.28	0.76 ± 0.15

Table 8—Continued

Trigger ID	Fluence (erg cm <sup>-2</sup> )	PF64 (ph cm <sup>-2</sup> s <sup>-1</sup> )	PF256 (ph cm <sup>-2</sup> s <sup>-1</sup> )	PF1024 (ph cm <sup>-2</sup> s <sup>-1</sup> )
bn090713020	5.39E-06 ± 1.95E-08	2.65 ± 0.79	1.60 ± 0.38	1.26 ± 0.18
bn090717034	1.31E-05 ± 3.95E-08	8.29 ± 0.92	6.89 ± 0.50	6.18 ± 0.24
bn090717111	1.57E-07 ± 1.26E-08	1.94 ± 0.50	1.74 ± 0.26	0.84 ± 0.13
bn090718720	1.89E-06 ± 1.91E-08	1.64 ± 1.02	1.12 ± 0.42	0.55 ± 0.20
bn090718762	1.36E-05 ± 5.60E-08	15.54 ± 1.29	14.52 ± 0.65	12.71 ± 0.33
bn090719063	2.69E-05 ± 8.15E-08	23.37 ± 1.61	21.86 ± 0.79	21.17 ± 0.39
bn090720276	2.00E-06 ± 1.56E-08	5.96 ± 1.31	4.80 ± 0.63	4.28 ± 0.31
bn090720710	4.82E-06 ± 1.15E-08	18.04 ± 0.98	14.59 ± 0.45	4.69 ± 0.14
bn090725838	1.29E-06 ± 2.58E-08	1.76 ± 1.11	1.38 ± 0.53	1.03 ± 0.27
bn090726218	3.06E-07 ± 1.03E-08	0.86 ± 0.38	1.03 ± 0.21	0.36 ± 0.05
bn090730608	1.92E-06 ± 4.26E-08	3.49 ± 0.41	3.00 ± 0.19	2.44 ± 0.09
bn090802235	5.79E-07 ± 1.81E-08	18.07 ± 1.75	10.58 ± 0.73	2.80 ± 0.24
bn090802666	1.45E-06 ± 3.16E-08	1.64 ± 0.98	1.18 ± 0.46	0.85 ± 0.24
bn090804940	9.73E-06 ± 7.24E-08	19.40 ± 1.68	18.70 ± 0.80	16.36 ± 0.41
bn090805622	2.50E-06 ± 2.79E-08	2.32 ± 1.45	1.31 ± 0.77	0.92 ± 0.34
bn090807832	5.53E-07 ± 1.31E-08	4.98 ± 0.50	3.85 ± 0.24	1.73 ± 0.09
bn090809978	1.20E-05 ± 7.03E-08	13.56 ± 1.16	12.52 ± 0.58	11.27 ± 0.28
bn090810659	4.53E-06 ± 4.23E-08	2.34 ± 1.38	1.63 ± 0.65	1.26 ± 0.32
bn090810781	2.47E-06 ± 2.90E-08	1.58 ± 0.71	1.09 ± 0.40	0.85 ± 0.19
bn090811696	4.59E-07 ± 1.14E-08	2.14 ± 0.83	1.43 ± 0.40	0.74 ± 0.20
bn090813174	1.81E-06 ± 2.24E-08	15.16 ± 1.10	10.02 ± 0.53	5.59 ± 0.25
bn090814368	2.78E-07 ± 3.08E-09	5.52 ± 0.67	4.37 ± 0.32	1.16 ± 0.12
bn090814950	8.73E-06 ± 1.91E-07	3.22 ± 0.96	2.60 ± 0.41	2.11 ± 0.20
bn090815300	7.86E-07 ± 2.26E-08	1.00 ± 0.44	1.07 ± 0.20	0.49 ± 0.06
bn090815438	2.44E-06 ± 8.04E-08	2.75 ± 1.07	2.34 ± 0.58	2.14 ± 0.28
bn090815946	1.52E-06 ± 1.51E-08	0.94 ± 0.40	0.52 ± 0.14	0.36 ± 0.05
bn090817036	2.54E-06 ± 5.90E-08	3.53 ± 0.70	1.92 ± 0.26	1.30 ± 0.10
bn090819607	1.36E-07 ± 8.29E-09	4.11 ± 0.70	2.37 ± 0.32	0.65 ± 0.13
bn090820027	9.11E-05 ± 8.84E-08	68.12 ± 2.98	67.23 ± 1.45	63.17 ± 0.71
bn090820509	5.47E-07 ± 1.99E-08	4.25 ± 0.82	2.64 ± 0.42	1.25 ± 0.15
bn090823133	1.43E-06 ± 2.77E-08	1.53 ± 0.94	1.23 ± 0.47	0.80 ± 0.22
bn090824918	1.77E-06 ± 3.25E-08	2.38 ± 1.14	1.29 ± 0.52	0.70 ± 0.25

Table 8—Continued

Trigger ID	Fluence (erg cm <sup>-2</sup> )	PF64 (ph cm <sup>-2</sup> s <sup>-1</sup> )	PF256 (ph cm <sup>-2</sup> s <sup>-1</sup> )	PF1024 (ph cm <sup>-2</sup> s <sup>-1</sup> )
bn090826068	4.75E-07 ± 2.26E-08	1.76 ± 0.68	1.50 ± 0.32	1.12 ± 0.16
bn090828099	1.28E-05 ± 1.02E-07	7.06 ± 1.21	6.27 ± 0.60	5.80 ± 0.30
bn090829672	3.83E-05 ± 8.43E-08	25.44 ± 1.35	20.88 ± 0.66	16.25 ± 0.32
bn090829702	2.67E-06 ± 2.70E-08	1.84 ± 0.58	1.38 ± 0.27	1.10 ± 0.14
bn090831317	4.82E-06 ± 2.93E-08	19.27 ± 1.56	9.00 ± 0.68	2.58 ± 0.26
bn090902401	7.35E-07 ± 2.23E-08	3.66 ± 0.74	3.14 ± 0.30	2.35 ± 0.15
bn090902462	9.44E-05 ± 1.77E-07	47.05 ± 1.92	39.91 ± 0.92	32.14 ± 0.44
bn090904058	1.16E-05 ± 1.13E-07	3.57 ± 0.67	2.96 ± 0.29	2.33 ± 0.14
bn090904581	8.69E-07 ± 1.49E-08	0.87 ± 0.39	0.46 ± 0.12	0.31 ± 0.06
bn090907017	2.80E-06 ± 6.52E-08	2.72 ± 1.03	1.73 ± 0.51	1.22 ± 0.24
bn090907808	5.84E-07 ± 1.22E-08	4.66 ± 0.51	4.48 ± 0.28	2.56 ± 0.11
bn090908314	1.92E-06 ± 4.02E-08	2.09 ± 0.76	1.56 ± 0.45	1.07 ± 0.23
bn090908341	1.25E-06 ± 6.49E-09	2.72 ± 0.71	1.65 ± 0.35	1.11 ± 0.16
bn090909487	3.06E-06 ± 8.64E-08	5.11 ± 1.57	2.39 ± 0.55	1.72 ± 0.25
bn090909854	1.03E-07 ± 1.12E-08	2.66 ± 0.45	1.37 ± 0.16	0.67 ± 0.07
bn090910812	1.07E-05 ± 1.16E-07	3.54 ± 0.72	2.60 ± 0.29	2.31 ± 0.15
bn090912660	5.66E-06 ± 8.75E-08	1.60 ± 0.35	1.11 ± 0.15	0.73 ± 0.07
bn090915650	1.72E-06 ± 2.71E-08	2.01 ± 0.83	1.29 ± 0.41	0.95 ± 0.20
bn090917661	5.84E-07 ± 2.03E-08	1.57 ± 0.35	1.05 ± 0.18	0.79 ± 0.08
bn090920035	1.75E-06 ± 1.98E-08	2.19 ± 1.45	1.23 ± 0.70	0.91 ± 0.33
bn090922539	6.42E-06 ± 2.67E-08	7.98 ± 0.87	7.37 ± 0.49	6.88 ± 0.23
bn090922605	2.46E-06 ± 5.29E-08	6.78 ± 1.39	4.19 ± 0.54	1.58 ± 0.19
bn090924625	1.71E-07 ± 6.86E-09	4.79 ± 0.82	2.98 ± 0.34	0.80 ± 0.15
bn090925389	4.97E-06 ± 1.61E-07	3.27 ± 0.97	2.53 ± 0.52	1.86 ± 0.24
bn090926181	7.44E-05 ± 1.79E-07	48.53 ± 1.56	48.06 ± 0.78	43.10 ± 0.37
bn090926914	6.68E-06 ± 8.19E-08	2.84 ± 0.89	2.21 ± 0.41	1.80 ± 0.22
bn090927422	1.24E-07 ± 9.01E-09	2.50 ± 1.09	1.60 ± 0.59	0.73 ± 0.27
bn090928646	1.16E-06 ± 2.79E-08	2.78 ± 1.13	1.97 ± 0.53	1.56 ± 0.30
bn090929190	3.86E-06 ± 5.08E-08	14.90 ± 1.66	13.54 ± 0.94	9.09 ± 0.41
bn091002685	1.63E-07 ± 6.14E-09	1.70 ± 0.59	1.45 ± 0.33	0.91 ± 0.17
bn091003191	1.20E-05 ± 3.73E-08	22.19 ± 2.11	19.68 ± 1.04	14.57 ± 0.49
bn091005679	7.91E-07 ± 3.27E-08	1.70 ± 0.70	1.27 ± 0.29	0.94 ± 0.13

Table 8—Continued

Trigger ID	Fluence (erg cm <sup>-2</sup> )	PF64 (ph cm <sup>-2</sup> s <sup>-1</sup> )	PF256 (ph cm <sup>-2</sup> s <sup>-1</sup> )	PF1024 (ph cm <sup>-2</sup> s <sup>-1</sup> )
bn091006360	7.82E-08 ± 9.67E-09	2.47 ± 0.52	1.93 ± 0.23	0.71 ± 0.10
bn091010113	6.00E-06 ± 2.99E-08	37.33 ± 1.75	33.35 ± 0.88	16.76 ± 0.39
bn091012783	8.03E-07 ± 2.29E-08	9.35 ± 1.09	6.35 ± 0.47	3.88 ± 0.19
bn091015129	7.88E-07 ± 2.65E-08	2.92 ± 0.97	2.10 ± 0.46	1.58 ± 0.20
bn091017861	2.38E-07 ± 7.90E-09	1.30 ± 0.45	1.09 ± 0.20	0.86 ± 0.09
bn091017985	1.15E-06 ± 1.68E-08	1.10 ± 0.38	0.99 ± 0.18	0.57 ± 0.07
bn091018957	1.16E-07 ± 1.40E-08	5.77 ± 2.68	3.46 ± 1.13	1.14 ± 0.41
bn091019750	6.08E-08 ± 3.03E-09	4.48 ± 0.69	1.28 ± 0.28	0.34 ± 0.13
bn091020900	4.52E-06 ± 8.08E-08	3.72 ± 1.07	3.33 ± 0.55	2.90 ± 0.27
bn091020977	5.22E-06 ± 2.94E-08	4.93 ± 0.60	4.08 ± 0.31	3.50 ± 0.15
bn091023021	2.56E-07 ± 1.01E-08	2.29 ± 0.59	1.51 ± 0.25	1.19 ± 0.12
bn091024372	4.97E-06 ± 3.47E-08	2.54 ± 0.66	1.49 ± 0.21	1.18 ± 0.10
bn091024380	1.47E-05 ± 2.67E-08	2.15 ± 0.58	1.37 ± 0.22	0.93 ± 0.09
bn091026485	3.15E-07 ± 1.18E-08	2.35 ± 0.96	1.48 ± 0.42	0.75 ± 0.20
bn091026550	7.17E-07 ± 2.72E-08	4.10 ± 2.06	2.09 ± 0.90	1.21 ± 0.49
bn091030613	2.57E-06 ± 1.87E-08	2.79 ± 0.64	2.04 ± 0.40	1.50 ± 0.20
bn091030828	1.40E-05 ± 8.43E-08	5.69 ± 0.90	5.15 ± 0.47	4.96 ± 0.22
bn091031500	8.04E-06 ± 4.47E-08	5.47 ± 0.85	4.28 ± 0.43	3.54 ± 0.22
bn091101143	4.27E-06 ± 4.38E-08	8.70 ± 1.15	6.80 ± 0.57	5.93 ± 0.28
bn091102607	1.06E-06 ± 6.28E-08	3.21 ± 0.91	2.11 ± 0.41	1.34 ± 0.20
bn091103912	3.30E-06 ± 6.38E-08	4.16 ± 0.63	3.67 ± 0.40	3.23 ± 0.20
bn091106762	7.85E-07 ± 3.76E-08	2.07 ± 1.48	1.03 ± 0.65	0.52 ± 0.29
bn091107635	5.37E-07 ± 2.29E-08	1.70 ± 0.32	1.14 ± 0.17	0.95 ± 0.08
bn091109895	1.15E-06 ± 2.91E-08	5.18 ± 0.63	4.37 ± 0.29	2.29 ± 0.12
bn091112737	4.04E-06 ± 2.87E-08	2.94 ± 0.80	2.04 ± 0.39	1.77 ± 0.19
bn091112928	2.65E-06 ± 2.67E-08	2.49 ± 0.67	1.62 ± 0.35	1.12 ± 0.17
bn091115177	8.38E-07 ± 3.16E-08	1.14 ± 0.40	0.55 ± 0.13	0.35 ± 0.05
bn091117080	1.85E-06 ± 2.41E-08	2.00 ± 0.51	0.88 ± 0.21	0.57 ± 0.10
bn091120191	1.61E-05 ± 2.00E-07	10.95 ± 1.08	10.07 ± 0.56	7.28 ± 0.26
bn091122163	6.89E-08 ± 1.73E-08	0.75 ± 0.25	0.65 ± 0.12	0.39 ± 0.06
bn091123081	1.14E-06 ± 4.78E-08	2.09 ± 0.63	1.54 ± 0.27	1.32 ± 0.14
bn091123298	3.40E-05 ± 2.00E-07	4.47 ± 1.15	3.69 ± 0.53	2.59 ± 0.25

Table 8—Continued

Trigger ID	Fluence (erg cm <sup>-2</sup> )	PF64 (ph cm <sup>-2</sup> s <sup>-1</sup> )	PF256 (ph cm <sup>-2</sup> s <sup>-1</sup> )	PF1024 (ph cm <sup>-2</sup> s <sup>-1</sup> )
bn091126333	2.24E-07 ± 1.66E-08	6.19 ± 0.92	4.50 ± 0.42	1.14 ± 0.15
bn091126389	2.24E-07 ± 1.66E-08	6.19 ± 0.92	4.50 ± 0.42	1.14 ± 0.15
bn091127976	9.43E-06 ± 2.00E-08	31.08 ± 2.04	25.97 ± 0.95	16.71 ± 0.45
bn091128285	2.34E-05 ± 2.38E-07	7.35 ± 1.26	6.01 ± 0.59	5.09 ± 0.26
bn091201089	4.48E-07 ± 9.54E-09	1.00 ± 0.45	0.65 ± 0.25	0.52 ± 0.12
bn091202072	8.76E-07 ± 1.97E-08	1.84 ± 0.71	1.11 ± 0.35	0.85 ± 0.18
bn091202219	3.47E-06 ± 8.36E-08	1.71 ± 0.80	1.50 ± 0.39	1.12 ± 0.18
bn091207333	2.94E-06 ± 5.80E-08	2.58 ± 0.80	1.97 ± 0.36	1.60 ± 0.18
bn091208410	3.17E-06 ± 9.86E-08	11.08 ± 1.43	10.47 ± 0.68	6.96 ± 0.32
bn091209001	5.46E-06 ± 1.02E-07	3.76 ± 0.95	2.25 ± 0.40	1.69 ± 0.19
bn091215234	4.38E-07 ± 3.35E-09	1.29 ± 0.35	0.81 ± 0.17	0.59 ± 0.08
bn091219462	4.51E-07 ± 1.35E-08	2.54 ± 0.48	2.11 ± 0.23	1.29 ± 0.09
bn091220442	3.09E-06 ± 2.49E-08	3.43 ± 0.95	2.71 ± 0.48	2.52 ± 0.24
bn091221870	5.27E-06 ± 9.28E-08	3.35 ± 0.73	2.76 ± 0.33	2.17 ± 0.16
bn091223191	1.56E-07 ± 2.44E-09	2.56 ± 0.61	1.80 ± 0.29	0.75 ± 0.14
bn091223511	5.27E-06 ± 3.33E-08	2.25 ± 0.82	1.57 ± 0.33	1.14 ± 0.15
bn091224373	1.41E-07 ± 6.52E-09	3.04 ± 0.87	1.72 ± 0.38	0.65 ± 0.15
bn091227294	3.81E-06 ± 5.71E-08	3.13 ± 0.80	2.28 ± 0.38	2.00 ± 0.19
bn091230260	1.06E-06 ± 2.29E-08	0.97 ± 0.32	0.60 ± 0.15	0.36 ± 0.07
bn091230712	1.50E-06 ± 4.79E-08	2.33 ± 0.92	1.45 ± 0.49	1.07 ± 0.24
bn091231206	5.58E-06 ± 1.06E-07	2.35 ± 0.63	2.01 ± 0.33	1.83 ± 0.17
bn091231540	4.06E-07 ± 1.60E-08	0.83 ± 0.45	0.62 ± 0.13	0.46 ± 0.06
bn100101028	2.50E-07 ± 9.38E-09	2.29 ± 0.79	1.34 ± 0.36	0.64 ± 0.12
bn100101988	3.75E-07 ± 1.18E-08	1.34 ± 0.55	1.15 ± 0.24	0.84 ± 0.12
bn100107074	9.05E-08 ± 1.10E-08	6.43 ± 1.49	1.70 ± 0.50	0.63 ± 0.23
bn100111176	6.01E-07 ± 8.87E-09	1.18 ± 0.91	1.05 ± 0.44	0.69 ± 0.19
bn100112418	5.56E-07 ± 5.99E-09	0.89 ± 0.34	0.49 ± 0.14	0.36 ± 0.06
bn100116897	1.28E-05 ± 6.14E-08	7.83 ± 1.03	7.06 ± 0.48	6.73 ± 0.23
bn100117879	1.98E-07 ± 2.74E-08	5.23 ± 0.86	3.61 ± 0.39	0.99 ± 0.14
bn100118100	7.91E-07 ± 5.19E-08	1.74 ± 0.97	1.55 ± 0.36	1.31 ± 0.17
bn100122616	5.79E-06 ± 8.58E-08	11.05 ± 1.69	10.29 ± 0.91	9.45 ± 0.44
bn100126460	5.31E-07 ± 3.24E-08	2.38 ± 0.82	1.19 ± 0.41	0.74 ± 0.16



Table 8—Continued

Trigger ID	Fluence (erg cm <sup>-2</sup> )	PF64 (ph cm <sup>-2</sup> s <sup>-1</sup> )	PF256 (ph cm <sup>-2</sup> s <sup>-1</sup> )	PF1024 (ph cm <sup>-2</sup> s <sup>-1</sup> )
bn100130729	4.69E-06 ± 4.67E-08	3.45 ± 0.80	2.57 ± 0.38	2.06 ± 0.20
bn100130777	7.37E-06 ± 7.43E-08	2.16 ± 0.69	1.74 ± 0.40	1.28 ± 0.18
bn100131730	4.29E-06 ± 4.35E-08	19.51 ± 1.36	16.46 ± 0.64	12.00 ± 0.27
bn100201588	5.41E-06 ± 3.07E-08	2.13 ± 0.56	1.18 ± 0.33	0.78 ± 0.18
bn100204024	6.09E-06 ± 7.98E-08	2.36 ± 0.68	2.25 ± 0.32	1.60 ± 0.17
bn100204566	1.97E-06 ± 2.20E-08	2.46 ± 1.26	1.60 ± 0.48	1.13 ± 0.29
bn100204858	1.71E-07 ± 1.47E-08	2.00 ± 0.86	1.66 ± 0.33	0.71 ± 0.15
bn100205490	7.95E-07 ± 1.42E-08	1.58 ± 0.80	1.26 ± 0.40	0.85 ± 0.20
bn100206563	3.43E-07 ± 8.34E-09	12.72 ± 0.98	6.12 ± 0.40	1.43 ± 0.14
bn100207665	1.26E-06 ± 2.57E-08	1.77 ± 0.90	1.41 ± 0.45	0.92 ± 0.18
bn100207721	2.28E-07 ± 1.20E-08	0.74 ± 0.60	0.40 ± 0.29	0.28 ± 0.15
bn100208386	4.33E-08 ± 3.39E-09	1.20 ± 1.07	0.92 ± 0.60	0.23 ± 0.22
bn100210101	1.21E-06 ± 1.45E-08	1.74 ± 0.72	1.16 ± 0.37	0.96 ± 0.19
bn100211440	7.80E-06 ± 7.88E-08	4.39 ± 1.32	3.46 ± 0.77	3.20 ± 0.37
bn100212550	1.52E-06 ± 3.59E-08	2.96 ± 0.72	2.75 ± 0.33	2.13 ± 0.16
bn100212588	2.06E-07 ± 8.49E-09	1.94 ± 0.86	1.50 ± 0.41	0.96 ± 0.21
bn100216422	1.50E-07 ± 8.42E-09	4.46 ± 0.76	2.68 ± 0.28	0.70 ± 0.11
bn100218194	1.55E-06 ± 6.08E-08	1.35 ± 0.51	0.67 ± 0.32	0.52 ± 0.15
bn100219026	1.74E-06 ± 3.10E-08	2.94 ± 1.08	1.51 ± 0.48	0.64 ± 0.22
bn100221368	1.05E-06 ± 1.56E-08	1.38 ± 0.67	1.11 ± 0.32	0.69 ± 0.16
bn100223110	3.09E-07 ± 3.39E-09	7.49 ± 0.87	4.58 ± 0.58	1.28 ± 0.20
bn100224112	5.77E-06 ± 1.87E-07	6.81 ± 1.06	6.22 ± 0.58	5.03 ± 0.29
bn100225115	3.06E-06 ± 4.85E-08	3.49 ± 0.61	2.70 ± 0.30	2.13 ± 0.15
bn100225249	3.25E-07 ± 3.31E-08	1.25 ± 0.61	0.69 ± 0.18	0.34 ± 0.09
bn100225580	3.45E-06 ± 6.07E-08	7.03 ± 0.82	6.29 ± 0.43	5.32 ± 0.20
bn100225703	8.14E-07 ± 2.25E-08	2.32 ± 0.60	2.02 ± 0.28	1.60 ± 0.14
bn100228544	1.46E-06 ± 2.68E-08	0.97 ± 0.73	0.55 ± 0.34	0.34 ± 0.16
bn100228873	3.43E-07 ± 8.98E-09	1.21 ± 0.74	0.75 ± 0.34	0.57 ± 0.17
bn100301068	1.41E-07 ± 6.60E-09	5.20 ± 1.05	2.24 ± 0.46	0.68 ± 0.20
bn100301223	1.38E-06 ± 3.31E-08	2.57 ± 0.80	1.86 ± 0.37	1.28 ± 0.19
bn100304004	3.13E-06 ± 8.27E-08	2.60 ± 1.31	1.60 ± 0.43	1.26 ± 0.27
bn100304534	2.65E-06 ± 8.94E-08	2.50 ± 1.10	2.08 ± 0.53	1.55 ± 0.27

Table 8—Continued

Trigger ID	Fluence (erg cm <sup>-2</sup> )	PF64 (ph cm <sup>-2</sup> s <sup>-1</sup> )	PF256 (ph cm <sup>-2</sup> s <sup>-1</sup> )	PF1024 (ph cm <sup>-2</sup> s <sup>-1</sup> )
bn100306199	3.26E-07 ± 1.37E-08	1.32 ± 0.40	0.81 ± 0.19	0.57 ± 0.09
bn100307928	7.13E-07 ± 1.22E-08	2.08 ± 0.71	1.35 ± 0.37	0.83 ± 0.18
bn100311518	1.43E-06 ± 5.40E-08	2.33 ± 0.84	1.44 ± 0.35	1.14 ± 0.16
bn100313288	2.77E-06 ± 3.41E-08	4.45 ± 0.72	3.66 ± 0.38	3.22 ± 0.21
bn100313509	1.30E-06 ± 2.23E-08	1.02 ± 0.38	0.74 ± 0.16	0.45 ± 0.06
bn100315361	1.36E-06 ± 2.42E-08	1.22 ± 0.40	0.67 ± 0.17	0.45 ± 0.08
bn100318611	9.50E-07 ± 1.13E-08	1.61 ± 0.82	0.82 ± 0.40	0.59 ± 0.20
bn100322045	2.94E-05 ± 1.07E-07	10.67 ± 0.84	9.39 ± 0.39	7.79 ± 0.19
bn100323542	1.07E-06 ± 7.14E-08	2.35 ± 0.93	1.61 ± 0.45	1.26 ± 0.22
bn100324172	1.95E-05 ± 9.77E-08	20.84 ± 1.26	19.50 ± 0.64	16.45 ± 0.30
bn100325246	5.74E-07 ± 8.43E-09	1.68 ± 0.77	1.40 ± 0.47	1.22 ± 0.24
bn100325275	2.11E-06 ± 2.76E-08	4.53 ± 0.63	3.51 ± 0.31	2.80 ± 0.14
bn100326294	2.43E-07 ± 3.56E-08	2.84 ± 0.51	2.13 ± 0.24	1.03 ± 0.11
bn100326402	6.18E-06 ± 1.33E-07	2.10 ± 0.74	1.40 ± 0.36	0.94 ± 0.20
bn100328141	3.72E-07 ± 1.15E-08	6.53 ± 0.62	5.53 ± 0.36	2.15 ± 0.14
bn100330309	2.44E-06 ± 2.82E-08	3.78 ± 0.50	3.16 ± 0.25	2.94 ± 0.12
bn100330856	3.07E-07 ± 6.52E-09	1.36 ± 0.67	0.83 ± 0.34	0.71 ± 0.17
bn100401297	9.64E-07 ± 1.52E-08	1.78 ± 0.38	1.73 ± 0.19	1.24 ± 0.08
bn100406758	7.23E-07 ± 2.24E-08	1.96 ± 0.71	1.44 ± 0.37	1.29 ± 0.18
bn100410356	4.55E-07 ± 2.07E-08	0.88 ± 0.34	0.81 ± 0.25	0.47 ± 0.09
bn100410740	2.92E-06 ± 1.51E-07	5.20 ± 2.37	3.82 ± 1.44	2.67 ± 0.69
bn100411516	1.15E-07 ± 9.52E-09	3.37 ± 0.47	1.24 ± 0.19	0.62 ± 0.08
bn100413732	6.18E-06 ± 4.53E-08	1.81 ± 0.82	1.12 ± 0.44	0.74 ± 0.19
bn100414097	3.34E-05 ± 1.04E-07	14.51 ± 1.05	13.34 ± 0.52	10.98 ± 0.24
bn100417166	1.75E-07 ± 1.96E-09	4.22 ± 0.71	2.24 ± 0.35	0.59 ± 0.13
bn100417789	8.95E-07 ± 2.86E-08	1.64 ± 0.86	0.75 ± 0.41	0.62 ± 0.20
bn100420008	2.54E-06 ± 1.98E-08	3.62 ± 0.84	2.90 ± 0.37	2.06 ± 0.18
bn100421917	4.16E-06 ± 1.21E-07	2.42 ± 0.93	1.79 ± 0.42	1.44 ± 0.20
bn100423244	4.02E-06 ± 5.87E-08	2.59 ± 0.59	2.14 ± 0.32	1.89 ± 0.15
bn100424729	3.97E-06 ± 3.06E-08	2.09 ± 0.52	1.25 ± 0.20	0.75 ± 0.08
bn100424876	7.49E-06 ± 6.97E-08	3.18 ± 0.81	2.57 ± 0.37	2.08 ± 0.18
bn100427356	1.28E-06 ± 3.48E-08	2.85 ± 0.82	1.88 ± 0.39	1.30 ± 0.20

Table 8—Continued

Trigger ID	Fluence (erg cm <sup>-2</sup> )	PF64 (ph cm <sup>-2</sup> s <sup>-1</sup> )	PF256 (ph cm <sup>-2</sup> s <sup>-1</sup> )	PF1024 (ph cm <sup>-2</sup> s <sup>-1</sup> )
bn100429999	1.69E-06 ± 2.39E-08	2.10 ± 0.66	1.28 ± 0.34	0.94 ± 0.16
bn100502356	8.66E-06 ± 1.05E-07	3.36 ± 0.61	2.86 ± 0.37	2.48 ± 0.20
bn100503554	9.69E-06 ± 2.03E-07	5.11 ± 0.75	4.16 ± 0.36	2.71 ± 0.18
bn100504806	1.06E-06 ± 5.76E-08	0.96 ± 0.36	0.75 ± 0.15	0.56 ± 0.07
bn100506653	1.41E-06 ± 3.37E-08	1.97 ± 0.74	1.23 ± 0.38	0.94 ± 0.18
bn100507577	7.14E-06 ± 6.07E-08	2.77 ± 0.52	2.09 ± 0.24	1.82 ± 0.12
bn100510810	1.86E-06 ± 4.10E-08	2.81 ± 1.06	1.35 ± 0.52	1.07 ± 0.26
bn100511035	1.27E-05 ± 3.80E-08	11.89 ± 1.06	10.12 ± 0.51	6.40 ± 0.23
bn100513879	2.19E-06 ± 3.02E-08	3.65 ± 0.85	3.03 ± 0.42	2.52 ± 0.22
bn100515467	3.47E-06 ± 2.87E-08	8.65 ± 1.00	7.71 ± 0.48	6.68 ± 0.24
bn100516369	1.11E-07 ± 7.74E-09	3.14 ± 0.49	1.35 ± 0.17	0.53 ± 0.06
bn100516396	9.15E-08 ± 8.96E-09	1.75 ± 0.47	1.25 ± 0.25	0.50 ± 0.12
bn100517072	3.15E-06 ± 8.16E-09	3.97 ± 0.95	3.53 ± 0.47	3.13 ± 0.24
bn100517132	6.86E-07 ± 2.79E-08	1.50 ± 0.71	1.25 ± 0.29	0.92 ± 0.15
bn100517154	1.27E-06 ± 1.60E-08	6.97 ± 0.75	5.08 ± 0.34	3.10 ± 0.15
bn100517243	1.17E-06 ± 2.46E-08	1.45 ± 0.68	1.26 ± 0.47	1.02 ± 0.21
bn100517639	1.81E-06 ± 7.24E-08	5.18 ± 0.64	4.66 ± 0.31	3.17 ± 0.14
bn100519204	1.15E-05 ± 1.17E-07	2.88 ± 0.80	2.32 ± 0.29	2.15 ± 0.16
bn100522157	2.28E-06 ± 2.93E-08	8.91 ± 0.95	4.93 ± 0.47	3.87 ± 0.25
bn100525744	4.23E-07 ± 4.70E-08	5.60 ± 0.96	3.17 ± 0.44	1.31 ± 0.21
bn100527795	8.36E-06 ± 3.66E-08	4.33 ± 0.66	3.70 ± 0.32	3.13 ± 0.15
bn100528075	1.41E-05 ± 2.71E-08	7.37 ± 1.06	6.56 ± 0.52	6.22 ± 0.25
bn100530737	2.72E-07 ± 9.60E-09	1.40 ± 0.57	1.09 ± 0.36	0.81 ± 0.16
bn100604287	3.05E-06 ± 2.06E-08	3.45 ± 1.14	3.07 ± 0.55	2.85 ± 0.27
bn100605774	4.34E-07 ± 1.19E-08	1.08 ± 0.39	0.78 ± 0.13	0.51 ± 0.06
bn100608382	9.22E-07 ± 1.14E-08	1.62 ± 0.41	1.06 ± 0.19	0.87 ± 0.09
bn100609783	1.14E-05 ± 3.41E-07	2.68 ± 0.81	1.82 ± 0.37	1.28 ± 0.17
bn100612545	6.06E-07 ± 1.76E-08	5.27 ± 0.97	4.21 ± 0.46	2.62 ± 0.21
bn100612726	8.58E-06 ± 2.07E-07	11.81 ± 1.13	11.34 ± 0.54	10.91 ± 0.28
bn100614498	8.92E-06 ± 1.41E-07	1.64 ± 0.80	1.14 ± 0.39	1.01 ± 0.18
bn100615083	4.86E-06 ± 4.43E-08	3.42 ± 0.82	3.07 ± 0.40	2.73 ± 0.20
bn100616773	1.37E-07 ± 8.66E-09	4.24 ± 1.34	2.53 ± 0.60	0.76 ± 0.26

Table 8—Continued

Trigger ID	Fluence (erg cm <sup>-2</sup> )	PF64 (ph cm <sup>-2</sup> s <sup>-1</sup> )	PF256 (ph cm <sup>-2</sup> s <sup>-1</sup> )	PF1024 (ph cm <sup>-2</sup> s <sup>-1</sup> )
bn100619015	5.95E-06 ± 4.05E-08	3.33 ± 1.02	2.52 ± 0.64	2.10 ± 0.32
bn100620119	2.39E-06 ± 4.26E-08	2.66 ± 0.86	1.86 ± 0.37	1.54 ± 0.20
bn100621452	4.22E-06 ± 1.50E-07	2.10 ± 0.77	1.53 ± 0.35	1.35 ± 0.18
bn100621529	8.33E-08 ± 2.51E-09	1.55 ± 0.64	0.71 ± 0.32	0.46 ± 0.14
bn100625773	4.56E-07 ± 3.62E-08	10.54 ± 1.73	8.49 ± 0.84	2.32 ± 0.30
bn100625891	7.99E-07 ± 8.42E-09	1.13 ± 0.32	0.70 ± 0.13	0.43 ± 0.06
bn100629801	7.43E-07 ± 5.60E-08	10.11 ± 1.80	8.55 ± 0.87	3.88 ± 0.39
bn100701490	8.52E-06 ± 2.41E-08	24.71 ± 1.93	15.06 ± 0.74	9.81 ± 0.31
bn100704149	6.06E-06 ± 6.24E-08	4.28 ± 0.86	3.68 ± 0.41	3.33 ± 0.20
bn100706693	6.55E-08 ± 3.48E-09	2.40 ± 0.69	1.26 ± 0.35	0.29 ± 0.17
bn100707032	4.36E-05 ± 7.80E-08	31.96 ± 1.72	31.24 ± 0.84	29.01 ± 0.42
bn100709602	5.00E-06 ± 4.61E-08	3.04 ± 1.06	2.10 ± 0.47	1.60 ± 0.22
bn100713980	9.13E-07 ± 9.28E-09	3.42 ± 0.62	2.29 ± 0.41	1.61 ± 0.11
bn100714672	1.78E-06 ± 5.30E-08	3.35 ± 1.00	1.91 ± 0.32	1.09 ± 0.16
bn100714686	8.34E-07 ± 2.03E-08	9.55 ± 1.09	7.62 ± 0.51	2.88 ± 0.18
bn100715477	1.44E-06 ± 7.47E-08	1.68 ± 0.61	1.09 ± 0.27	0.76 ± 0.14
bn100717372	2.32E-07 ± 1.27E-08	1.82 ± 0.44	1.37 ± 0.18	0.90 ± 0.08
bn100717446	1.78E-07 ± 7.70E-09	2.39 ± 0.45	1.42 ± 0.18	0.87 ± 0.07
bn100718160	1.59E-06 ± 2.53E-08	2.98 ± 0.48	2.70 ± 0.23	1.55 ± 0.09
bn100718796	1.40E-06 ± 2.17E-08	1.09 ± 0.36	0.72 ± 0.21	0.58 ± 0.08
bn100719311	2.07E-07 ± 1.97E-08	2.02 ± 0.44	1.30 ± 0.21	0.95 ± 0.10
bn100719825	1.50E-07 ± 1.35E-08	1.18 ± 0.54	0.59 ± 0.18	0.46 ± 0.08
bn100719989	2.66E-05 ± 3.67E-07	39.98 ± 2.31	36.56 ± 1.09	28.66 ± 0.50
bn100722096	4.33E-06 ± 2.14E-08	17.50 ± 0.90	15.19 ± 0.42	8.09 ± 0.16
bn100722291	6.28E-08 ± 1.22E-08	1.81 ± 0.51	1.07 ± 0.24	0.42 ± 0.11
bn100724029	9.65E-05 ± 2.75E-07	13.21 ± 0.79	12.05 ± 0.38	11.12 ± 0.18
bn100725475	2.18E-06 ± 1.03E-07	2.03 ± 1.33	1.19 ± 0.56	0.78 ± 0.29
bn100727238	5.63E-07 ± 1.33E-08	0.66 ± 0.25	0.56 ± 0.12	0.41 ± 0.06
bn100728095	6.20E-05 ± 3.14E-07	7.17 ± 0.54	6.10 ± 0.32	5.72 ± 0.17
bn100728439	1.95E-06 ± 3.36E-08	3.30 ± 0.52	2.92 ± 0.25	2.12 ± 0.12
bn100730463	3.88E-06 ± 9.37E-08	2.20 ± 0.67	1.43 ± 0.32	1.15 ± 0.15
bn100802240	6.67E-07 ± 1.75E-08	1.54 ± 0.43	1.08 ± 0.19	0.71 ± 0.09

Table 8—Continued

Trigger ID	Fluence (erg cm <sup>-2</sup> )	PF64 (ph cm <sup>-2</sup> s <sup>-1</sup> )	PF256 (ph cm <sup>-2</sup> s <sup>-1</sup> )	PF1024 (ph cm <sup>-2</sup> s <sup>-1</sup> )
bn100804104	7.00E-06 ± 1.02E-07	9.39 ± 1.11	8.65 ± 0.57	7.68 ± 0.29
bn100805300	1.11E-07 ± 4.10E-08	11.35 ± 1.78	2.99 ± 0.62	0.83 ± 0.26
bn100805845	6.01E-06 ± 8.89E-08	3.92 ± 0.69	3.72 ± 0.40	3.35 ± 0.20
bn100810049	1.92E-07 ± 2.63E-08	1.33 ± 0.46	0.89 ± 0.21	0.66 ± 0.09
bn100811108	5.83E-07 ± 9.09E-09	7.30 ± 0.69	6.00 ± 0.32	2.31 ± 0.10
bn100811781	2.57E-06 ± 4.43E-08	1.99 ± 0.48	1.70 ± 0.24	1.17 ± 0.11
bn100814160	9.85E-06 ± 5.57E-08	3.48 ± 0.60	2.82 ± 0.29	2.40 ± 0.14
bn100814351	2.50E-06 ± 2.09E-08	3.97 ± 0.61	3.60 ± 0.29	3.14 ± 0.14
bn100816009	1.48E-05 ± 1.32E-07	4.63 ± 1.35	3.02 ± 0.71	2.62 ± 0.36
bn100816026	2.50E-06 ± 3.39E-08	9.86 ± 1.08	8.56 ± 0.52	7.61 ± 0.25
bn100819498	1.81E-06 ± 5.48E-08	1.98 ± 0.71	1.37 ± 0.39	1.06 ± 0.18
bn100820373	1.65E-06 ± 2.88E-08	7.91 ± 0.57	6.30 ± 0.27	5.07 ± 0.12
bn100825287	5.81E-07 ± 1.50E-08	2.65 ± 0.63	2.11 ± 0.28	1.75 ± 0.13
bn100826957	7.76E-05 ± 5.47E-08	17.44 ± 0.99	15.11 ± 0.47	13.79 ± 0.23
bn100827455	3.26E-07 ± 1.21E-08	9.34 ± 0.82	4.39 ± 0.30	1.43 ± 0.09
bn100829374	3.93E-06 ± 2.53E-08	3.93 ± 0.57	3.21 ± 0.27	2.34 ± 0.12
bn100829876	9.07E-06 ± 4.09E-08	50.30 ± 2.08	39.31 ± 1.08	23.22 ± 0.45
bn100831651	1.64E-06 ± 6.52E-08	1.19 ± 0.42	1.20 ± 0.36	0.76 ± 0.10
bn100902990	1.13E-06 ± 2.46E-08	1.68 ± 0.47	0.94 ± 0.19	0.69 ± 0.08
bn100905907	1.11E-06 ± 1.08E-08	2.46 ± 0.61	1.23 ± 0.21	0.91 ± 0.09
bn100906576	1.27E-05 ± 3.21E-08	8.09 ± 0.80	7.53 ± 0.40	5.76 ± 0.18
bn100907751	4.34E-07 ± 3.39E-08	1.81 ± 0.48	1.55 ± 0.23	1.16 ± 0.11
bn100910818	7.92E-06 ± 2.51E-08	17.00 ± 0.78	15.81 ± 0.39	10.65 ± 0.16
bn100911816	4.37E-07 ± 1.70E-08	1.58 ± 0.35	1.11 ± 0.16	0.88 ± 0.08
bn100915243	2.48E-07 ± 1.49E-08	1.04 ± 0.36	0.66 ± 0.17	0.42 ± 0.09
bn100916779	9.24E-07 ± 7.88E-08	10.10 ± 1.33	7.89 ± 0.59	2.49 ± 0.21
bn100918863	5.86E-05 ± 1.48E-06	7.50 ± 0.79	6.44 ± 0.37	5.95 ± 0.18
bn100919884	3.30E-06 ± 4.64E-08	2.38 ± 0.56	1.83 ± 0.34	1.55 ± 0.16
bn100922625	2.18E-07 ± 6.81E-09	0.62 ± 0.25	0.47 ± 0.12	0.36 ± 0.06
bn100923844	2.04E-06 ± 3.00E-08	1.91 ± 0.56	1.56 ± 0.25	1.37 ± 0.13
bn100924165	1.73E-06 ± 1.90E-08	5.55 ± 0.59	4.49 ± 0.35	3.56 ± 0.18
bn100926595	3.77E-06 ± 8.65E-09	3.92 ± 0.75	3.63 ± 0.37	2.69 ± 0.16

Table 8—Continued

Trigger ID	Fluence (erg cm <sup>-2</sup> )	PF64 (ph cm <sup>-2</sup> s <sup>-1</sup> )	PF256 (ph cm <sup>-2</sup> s <sup>-1</sup> )	PF1024 (ph cm <sup>-2</sup> s <sup>-1</sup> )
bn100926694	7.67E-07 ± 1.68E-08	1.44 ± 0.39	0.68 ± 0.15	0.44 ± 0.06
bn100929235	3.14E-07 ± 1.09E-08	1.10 ± 0.30	0.60 ± 0.14	0.42 ± 0.06
bn100929315	2.00E-07 ± 1.01E-08	1.55 ± 0.48	0.83 ± 0.18	0.56 ± 0.08
bn100929916	2.92E-07 ± 1.22E-08	7.88 ± 1.08	3.91 ± 0.39	1.44 ± 0.13
bn101002279	2.52E-07 ± 1.89E-08	1.00 ± 0.41	0.52 ± 0.14	0.33 ± 0.07
bn101003244	8.30E-07 ± 1.78E-08	1.84 ± 0.48	1.65 ± 0.17	1.15 ± 0.09
bn101004426	4.77E-06 ± 5.82E-08	2.00 ± 0.50	1.17 ± 0.30	0.85 ± 0.11
bn101008697	7.34E-07 ± 2.40E-08	2.62 ± 0.56	1.65 ± 0.22	0.83 ± 0.08
bn101010190	9.31E-07 ± 3.76E-08	1.24 ± 0.42	0.95 ± 0.19	0.70 ± 0.08
bn101011707	1.45E-06 ± 4.63E-08	2.21 ± 0.70	1.23 ± 0.28	0.65 ± 0.13
bn101013412	3.48E-06 ± 4.28E-08	4.78 ± 0.90	3.86 ± 0.47	2.50 ± 0.21
bn101014175	1.05E-04 ± 2.22E-07	36.28 ± 1.51	35.35 ± 0.76	28.31 ± 0.35
bn101015558	2.10E-05 ± 1.30E-07	2.44 ± 0.64	1.55 ± 0.29	1.33 ± 0.16
bn101016243	1.36E-06 ± 8.41E-09	5.88 ± 0.52	5.79 ± 0.26	4.30 ± 0.12
bn101017619	9.95E-07 ± 9.88E-09	1.12 ± 0.33	0.61 ± 0.10	0.32 ± 0.05
bn101021009	1.10E-05 ± 2.43E-07	6.54 ± 2.28	4.42 ± 0.95	3.60 ± 0.48
bn101021063	1.91E-07 ± 1.11E-08	2.43 ± 0.47	1.29 ± 0.20	0.73 ± 0.08
bn101023951	3.30E-05 ± 3.09E-07	18.57 ± 1.93	17.83 ± 1.02	16.23 ± 0.51
bn101024486	1.92E-06 ± 8.22E-08	5.44 ± 1.16	3.71 ± 0.51	2.64 ± 0.24
bn101025146	1.52E-07 ± 8.50E-09	0.59 ± 0.21	0.44 ± 0.10	0.30 ± 0.05
bn101026034	3.28E-07 ± 1.18E-08	7.47 ± 1.02	5.37 ± 0.47	1.41 ± 0.13
bn101027230	6.80E-08 ± 3.94E-09	2.83 ± 0.60	1.42 ± 0.22	0.36 ± 0.07
bn101030664	2.69E-06 ± 2.10E-08	1.10 ± 0.43	0.70 ± 0.22	0.51 ± 0.07
bn101031625	1.51E-07 ± 1.57E-08	5.23 ± 0.74	3.28 ± 0.31	1.02 ± 0.10
bn101101744	1.90E-07 ± 1.36E-08	2.18 ± 0.51	1.52 ± 0.24	1.12 ± 0.10
bn101101899	1.44E-06 ± 1.26E-08	1.48 ± 0.44	0.74 ± 0.19	0.47 ± 0.08
bn101102840	9.29E-07 ± 1.86E-08	0.82 ± 0.21	0.43 ± 0.14	0.33 ± 0.05
bn101104810	4.21E-07 ± 1.18E-08	3.20 ± 0.71	1.46 ± 0.21	0.85 ± 0.08
bn101107011	3.51E-06 ± 1.23E-07	1.82 ± 1.22	1.14 ± 0.59	0.87 ± 0.27
bn101112924	1.39E-06 ± 4.18E-08	4.18 ± 0.75	3.52 ± 0.34	2.89 ± 0.16
bn101112984	4.49E-06 ± 5.13E-08	1.47 ± 0.44	1.10 ± 0.21	0.85 ± 0.11
bn101113483	1.62E-06 ± 1.61E-08	1.98 ± 0.42	1.61 ± 0.20	1.36 ± 0.10

Table 8—Continued

Trigger ID	Fluence (erg cm <sup>-2</sup> )	PF64 (ph cm <sup>-2</sup> s <sup>-1</sup> )	PF256 (ph cm <sup>-2</sup> s <sup>-1</sup> )	PF1024 (ph cm <sup>-2</sup> s <sup>-1</sup> )
bn101116481	1.55E-07 ± 3.62E-08	3.03 ± 0.67	2.00 ± 0.32	0.88 ± 0.14
bn101117496	4.87E-06 ± 4.11E-08	2.73 ± 0.60	1.49 ± 0.22	0.97 ± 0.09
bn101119685	8.61E-08 ± 8.83E-09	2.58 ± 0.70	1.29 ± 0.23	0.59 ± 0.09
bn101123952	5.11E-05 ± 4.49E-08	24.01 ± 1.50	21.86 ± 0.73	19.17 ± 0.34
bn101126198	1.63E-05 ± 7.76E-08	8.88 ± 0.97	8.40 ± 0.52	7.96 ± 0.25
bn101127093	3.75E-07 ± 9.95E-09	0.85 ± 0.41	0.45 ± 0.12	0.31 ± 0.06
bn101127102	1.71E-06 ± 1.56E-08	0.93 ± 0.40	0.63 ± 0.16	0.48 ± 0.07
bn101128322	4.89E-07 ± 8.75E-09	1.70 ± 0.39	1.13 ± 0.19	0.81 ± 0.09
bn101129652	3.91E-07 ± 2.96E-08	7.17 ± 0.73	5.28 ± 0.37	1.97 ± 0.13
bn101129726	4.60E-07 ± 1.44E-08	7.55 ± 0.70	6.15 ± 0.33	2.43 ± 0.11
bn101130074	1.09E-07 ± 2.67E-08	0.71 ± 0.30	0.41 ± 0.18	0.24 ± 0.08
bn101201418	1.21E-05 ± 4.58E-08	3.02 ± 0.48	2.46 ± 0.23	2.11 ± 0.10
bn101202154	6.98E-07 ± 3.25E-08	3.74 ± 0.92	1.50 ± 0.38	0.79 ± 0.16
bn101204343	1.17E-07 ± 6.78E-09	4.08 ± 0.63	2.11 ± 0.23	0.52 ± 0.06
bn101205309	2.17E-07 ± 2.03E-08	0.95 ± 0.41	0.50 ± 0.12	0.32 ± 0.06
bn101206036	3.12E-06 ± 4.36E-08	3.05 ± 0.94	2.36 ± 0.46	2.02 ± 0.22
bn101207536	3.77E-06 ± 3.59E-08	3.06 ± 0.49	2.67 ± 0.24	1.47 ± 0.11
bn101208203	1.08E-07 ± 8.92E-09	2.42 ± 0.75	2.16 ± 0.30	0.63 ± 0.09
bn101208498	2.22E-06 ± 2.82E-08	22.16 ± 1.16	19.96 ± 0.54	10.59 ± 0.21
bn101211485	9.08E-07 ± 2.38E-08	2.64 ± 0.58	1.44 ± 0.27	1.15 ± 0.13
bn101213451	4.07E-06 ± 5.53E-08	3.49 ± 0.86	2.90 ± 0.38	1.36 ± 0.13
bn101213849	7.10E-07 ± 1.13E-08	3.51 ± 0.49	2.58 ± 0.22	1.72 ± 0.10
bn101214748	1.57E-07 ± 1.67E-08	5.02 ± 0.76	2.90 ± 0.32	0.82 ± 0.10
bn101214993	5.83E-07 ± 2.17E-08	1.66 ± 0.39	1.35 ± 0.23	0.87 ± 0.07
bn101216721	1.88E-06 ± 3.86E-08	11.54 ± 0.85	11.15 ± 0.41	8.00 ± 0.18
bn101219686	2.49E-06 ± 3.06E-08	1.49 ± 0.35	0.90 ± 0.18	0.68 ± 0.08
bn101220576	5.68E-06 ± 5.51E-08	3.35 ± 0.87	1.84 ± 0.33	0.97 ± 0.12
bn101220864	2.94E-06 ± 5.57E-08	3.03 ± 0.75	2.71 ± 0.39	2.18 ± 0.20
bn101223834	1.30E-06 ± 2.45E-08	0.93 ± 0.29	0.69 ± 0.19	0.42 ± 0.08
bn101224227	1.06E-07 ± 1.59E-08	2.77 ± 0.44	1.99 ± 0.24	0.53 ± 0.08
bn101224578	1.97E-06 ± 1.08E-08	1.85 ± 0.38	1.39 ± 0.18	1.20 ± 0.08
bn101224614	1.32E-06 ± 3.44E-08	1.61 ± 0.46	1.12 ± 0.22	0.91 ± 0.11

Table 8—Continued

Trigger ID	Fluence (erg cm <sup>-2</sup> )	PF64 (ph cm <sup>-2</sup> s <sup>-1</sup> )	PF256 (ph cm <sup>-2</sup> s <sup>-1</sup> )	PF1024 (ph cm <sup>-2</sup> s <sup>-1</sup> )
bn101224998	8.73E-07 ± 1.63E-08	2.34 ± 0.65	1.28 ± 0.22	0.78 ± 0.09
bn101225377	1.14E-05 ± 1.60E-07	4.45 ± 0.63	3.80 ± 0.30	3.20 ± 0.14
bn101227195	1.93E-06 ± 4.95E-08	4.05 ± 0.86	1.75 ± 0.27	1.28 ± 0.13
bn101227406	7.96E-06 ± 5.44E-08	4.37 ± 0.59	3.70 ± 0.28	3.12 ± 0.13
bn101227536	2.56E-06 ± 1.86E-08	4.35 ± 0.63	3.37 ± 0.27	2.07 ± 0.11
bn101231067	9.86E-06 ± 6.17E-08	9.84 ± 0.93	8.81 ± 0.43	6.15 ± 0.20
bn110101202	1.45E-07 ± 1.44E-08	1.38 ± 0.43	0.89 ± 0.15	0.48 ± 0.06
bn110101506	3.53E-06 ± 4.06E-08	1.60 ± 0.45	0.86 ± 0.25	0.45 ± 0.09
bn110102788	1.95E-05 ± 1.15E-07	8.61 ± 0.65	7.66 ± 0.34	6.07 ± 0.15
bn110105877	1.25E-05 ± 6.29E-08	4.94 ± 0.70	4.31 ± 0.32	3.29 ± 0.14
bn110106893	1.96E-06 ± 2.98E-08	1.52 ± 0.50	1.09 ± 0.24	0.82 ± 0.11
bn110107886	7.07E-06 ± 6.68E-08	1.62 ± 0.42	1.50 ± 0.21	1.03 ± 0.08
bn110108977	1.36E-06 ± 2.98E-08	1.06 ± 0.59	0.69 ± 0.16	0.45 ± 0.08
bn110112934	1.84E-07 ± 1.47E-08	4.85 ± 0.69	2.75 ± 0.30	0.86 ± 0.09
bn110117364	1.68E-06 ± 9.30E-08	2.15 ± 0.77	1.47 ± 0.37	0.80 ± 0.17
bn110117626	1.29E-06 ± 9.45E-09	2.43 ± 0.60	1.57 ± 0.23	0.84 ± 0.08
bn110118857	1.60E-06 ± 2.31E-08	3.62 ± 0.49	3.24 ± 0.24	2.71 ± 0.11
bn110119931	5.76E-06 ± 2.54E-08	2.84 ± 0.55	2.33 ± 0.24	1.29 ± 0.09
bn110120666	8.44E-06 ± 1.25E-07	8.17 ± 0.68	7.24 ± 0.39	6.01 ± 0.20
bn110123804	1.13E-05 ± 4.09E-08	5.42 ± 0.56	4.93 ± 0.28	4.53 ± 0.14
bn110124784	8.73E-08 ± 7.35E-09	0.89 ± 0.29	0.38 ± 0.12	0.25 ± 0.05
bn110125894	3.90E-07 ± 1.71E-08	1.33 ± 0.46	1.07 ± 0.15	0.90 ± 0.08
bn110128073	7.76E-07 ± 5.63E-08	1.41 ± 0.42	0.85 ± 0.19	0.68 ± 0.09
bn110130230	1.54E-06 ± 2.14E-08	1.23 ± 0.35	0.78 ± 0.18	0.48 ± 0.06
bn110131780	3.80E-08 ± 9.09E-09	2.17 ± 0.55	1.24 ± 0.20	0.41 ± 0.08
bn110201399	1.69E-06 ± 8.78E-08	3.28 ± 0.91	1.96 ± 0.44	1.53 ± 0.20
bn110204179	1.91E-06 ± 3.68E-08	2.34 ± 0.61	1.82 ± 0.27	1.10 ± 0.10
bn110205027	1.10E-07 ± 1.99E-08	1.01 ± 0.35	0.67 ± 0.17	0.32 ± 0.08
bn110205588	2.20E-06 ± 3.78E-08	1.81 ± 0.84	1.10 ± 0.29	0.72 ± 0.14
bn110206202	4.49E-07 ± 2.20E-08	1.94 ± 0.60	1.35 ± 0.29	0.94 ± 0.14
bn110207470	1.40E-06 ± 2.05E-08	4.78 ± 0.64	2.61 ± 0.27	0.76 ± 0.08
bn110207959	1.90E-07 ± 2.88E-08	0.91 ± 0.32	0.74 ± 0.15	0.50 ± 0.08



Table 8—Continued

Trigger ID	Fluence (erg cm <sup>-2</sup> )	PF64 (ph cm <sup>-2</sup> s <sup>-1</sup> )	PF256 (ph cm <sup>-2</sup> s <sup>-1</sup> )	PF1024 (ph cm <sup>-2</sup> s <sup>-1</sup> )
bn110209165	4.26E-07 ± 1.96E-08	1.61 ± 0.59	1.24 ± 0.26	0.85 ± 0.11
bn110212550	2.13E-07 ± 6.23E-09	9.43 ± 0.75	4.40 ± 0.27	1.15 ± 0.08
bn110213220	4.72E-06 ± 2.73E-08	6.49 ± 0.85	5.40 ± 0.40	4.75 ± 0.19
bn110213876	6.62E-08 ± 1.47E-08	2.12 ± 0.44	1.27 ± 0.17	0.40 ± 0.07
bn110217591	7.78E-07 ± 2.31E-08	0.82 ± 0.32	0.62 ± 0.12	0.30 ± 0.05
bn110220761	1.20E-06 ± 1.39E-08	1.93 ± 0.39	1.44 ± 0.18	1.17 ± 0.08
bn110221244	1.38E-06 ± 1.90E-08	2.15 ± 0.48	1.76 ± 0.22	1.44 ± 0.10
bn110226989	1.06E-06 ± 1.23E-08	1.37 ± 0.46	0.93 ± 0.17	0.69 ± 0.08
bn110227009	9.59E-08 ± 5.82E-09	1.87 ± 0.49	0.96 ± 0.16	0.50 ± 0.06
bn110227229	1.10E-06 ± 1.40E-08	2.16 ± 0.53	1.32 ± 0.24	1.03 ± 0.11
bn110227420	1.34E-06 ± 4.52E-08	1.74 ± 0.49	1.33 ± 0.21	1.13 ± 0.10
bn110228011	2.77E-06 ± 2.89E-08	3.16 ± 0.73	2.20 ± 0.31	1.59 ± 0.13
bn110228792	5.42E-07 ± 1.15E-08	0.81 ± 0.26	0.50 ± 0.10	0.28 ± 0.05
bn110301214	2.19E-05 ± 1.65E-08	48.69 ± 1.72	44.78 ± 0.83	35.76 ± 0.38
bn110302043	1.67E-06 ± 2.74E-08	1.94 ± 0.48	1.65 ± 0.23	1.30 ± 0.11
bn110304071	2.21E-06 ± 5.13E-08	3.96 ± 0.70	2.94 ± 0.32	2.45 ± 0.15
bn110307972	3.00E-07 ± 2.44E-08	3.06 ± 0.51	2.57 ± 0.24	1.16 ± 0.10
bn110311812	5.31E-07 ± 1.74E-08	2.14 ± 0.53	1.03 ± 0.19	0.78 ± 0.09
bn110316139	6.44E-08 ± 1.84E-08	1.83 ± 0.33	1.02 ± 0.13	0.37 ± 0.06
bn110318552	4.89E-06 ± 4.69E-08	7.33 ± 0.59	6.10 ± 0.29	5.21 ± 0.14
bn110319628	8.20E-07 ± 1.67E-08	1.50 ± 0.48	0.80 ± 0.17	0.58 ± 0.09
bn110319815	1.39E-06 ± 4.66E-08	2.44 ± 0.81	1.11 ± 0.23	0.94 ± 0.13
bn110321346	6.12E-07 ± 2.39E-08	0.67 ± 0.34	0.47 ± 0.09	0.35 ± 0.05
bn110322558	1.98E-06 ± 1.93E-08	2.24 ± 0.45	1.37 ± 0.18	0.78 ± 0.07
bn110328520	8.88E-06 ± 4.33E-08	3.61 ± 0.59	3.01 ± 0.28	2.48 ± 0.12
bn110331604	1.40E-07 ± 1.51E-08	0.92 ± 0.33	0.68 ± 0.12	0.52 ± 0.06
bn110401920	4.61E-07 ± 1.46E-08	6.90 ± 0.81	3.64 ± 0.28	1.64 ± 0.11
bn110402009	3.87E-06 ± 5.94E-08	11.90 ± 1.51	6.67 ± 0.46	3.33 ± 0.20
bn110407998	1.07E-05 ± 9.97E-09	11.04 ± 0.79	10.21 ± 0.38	8.90 ± 0.18
bn110409179	1.55E-07 ± 6.87E-09	6.71 ± 0.61	2.95 ± 0.23	0.70 ± 0.07
bn110410133	3.61E-06 ± 1.00E-08	1.68 ± 0.42	1.41 ± 0.20	0.94 ± 0.08
bn110410772	4.66E-07 ± 1.39E-08	1.79 ± 0.47	1.21 ± 0.18	0.71 ± 0.07

Table 8—Continued

Trigger ID	Fluence (erg cm <sup>-2</sup> )	PF64 (ph cm <sup>-2</sup> s <sup>-1</sup> )	PF256 (ph cm <sup>-2</sup> s <sup>-1</sup> )	PF1024 (ph cm <sup>-2</sup> s <sup>-1</sup> )
bn110411629	2.03E-06 ± 3.89E-08	3.15 ± 0.83	1.77 ± 0.33	1.19 ± 0.13
bn110412315	1.48E-06 ± 1.59E-08	1.68 ± 0.35	1.03 ± 0.16	0.80 ± 0.08
bn110413938	6.10E-07 ± 1.73E-08	1.04 ± 0.38	0.57 ± 0.12	0.28 ± 0.05
bn110415541	2.67E-06 ± 2.79E-08	3.15 ± 0.68	2.55 ± 0.30	2.31 ± 0.15
bn110420946	1.06E-07 ± 1.35E-08	6.72 ± 1.09	2.26 ± 0.32	0.58 ± 0.10
bn110421757	5.49E-06 ± 4.00E-08	3.18 ± 0.48	3.00 ± 0.24	2.57 ± 0.11
bn110422029	5.69E-08 ± 1.05E-08	2.76 ± 0.41	1.36 ± 0.16	0.53 ± 0.06
bn110424758	2.59E-08 ± 5.02E-09	2.77 ± 0.55	1.14 ± 0.19	0.27 ± 0.08
bn110426629	1.38E-05 ± 5.06E-08	2.18 ± 0.56	1.68 ± 0.27	1.25 ± 0.12
bn110428338	6.84E-06 ± 3.33E-08	4.55 ± 0.59	4.03 ± 0.28	3.26 ± 0.13
bn110428388	1.41E-05 ± 8.13E-08	18.61 ± 0.92	17.42 ± 0.41	15.43 ± 0.20
bn110430375	3.54E-06 ± 2.03E-08	2.16 ± 0.45	1.63 ± 0.19	1.55 ± 0.10
bn110503145	8.88E-07 ± 2.07E-08	2.53 ± 0.47	1.83 ± 0.20	1.34 ± 0.08
bn110505203	1.01E-06 ± 3.38E-08	3.43 ± 0.51	3.07 ± 0.25	2.66 ± 0.12
bn110509142	2.14E-06 ± 2.19E-08	1.31 ± 0.50	0.92 ± 0.21	0.59 ± 0.08
bn110509475	2.39E-07 ± 7.65E-09	4.99 ± 0.55	3.26 ± 0.23	1.24 ± 0.08
bn110511616	2.57E-07 ± 2.34E-08	0.82 ± 0.41	0.65 ± 0.13	0.51 ± 0.07
bn110517453	5.30E-08 ± 1.27E-08	3.03 ± 0.57	1.51 ± 0.21	0.44 ± 0.07
bn110517573	5.82E-06 ± 2.02E-08	5.53 ± 0.61	4.77 ± 0.31	3.65 ± 0.14
bn110517902	5.82E-06 ± 2.02E-08	5.53 ± 0.61	4.77 ± 0.31	3.65 ± 0.14
bn110520302	5.76E-07 ± 2.68E-08	1.33 ± 0.63	0.84 ± 0.19	0.72 ± 0.10
bn110521478	1.71E-06 ± 3.95E-08	8.26 ± 1.24	6.60 ± 0.58	5.27 ± 0.26
bn110522256	1.19E-06 ± 1.73E-08	1.37 ± 0.40	0.61 ± 0.17	0.46 ± 0.06
bn110522296	6.36E-07 ± 1.90E-08	1.38 ± 0.42	0.99 ± 0.18	0.80 ± 0.09
bn110522633	1.22E-06 ± 1.21E-08	3.42 ± 0.54	2.55 ± 0.27	1.95 ± 0.11
bn110523344	1.30E-06 ± 2.45E-08	3.34 ± 0.59	2.18 ± 0.26	1.70 ± 0.12
bn110526715	4.04E-07 ± 1.59E-08	6.39 ± 0.89	4.76 ± 0.40	2.05 ± 0.13
bn110528624	2.67E-06 ± 3.18E-08	1.58 ± 0.45	0.96 ± 0.17	0.55 ± 0.07
bn110529034	7.96E-07 ± 8.35E-09	22.46 ± 0.98	11.88 ± 0.41	4.02 ± 0.13
bn110529262	3.69E-06 ± 2.38E-08	7.32 ± 0.71	7.08 ± 0.36	4.18 ± 0.15
bn110529811	1.95E-06 ± 1.61E-08	1.58 ± 0.41	1.12 ± 0.18	0.68 ± 0.06
bn110531448	1.12E-06 ± 1.37E-08	1.03 ± 0.37	0.72 ± 0.16	0.56 ± 0.07

Table 8—Continued

Trigger ID	Fluence (erg cm <sup>-2</sup> )	PF64 (ph cm <sup>-2</sup> s <sup>-1</sup> )	PF256 (ph cm <sup>-2</sup> s <sup>-1</sup> )	PF1024 (ph cm <sup>-2</sup> s <sup>-1</sup> )
bn110601681	5.02E-06 ± 6.65E-08	2.89 ± 0.41	2.02 ± 0.21	1.79 ± 0.09
bn110605183	1.16E-05 ± 3.17E-08	5.25 ± 0.69	4.75 ± 0.36	4.31 ± 0.17
bn110605780	3.16E-07 ± 1.16E-08	2.07 ± 0.40	1.26 ± 0.17	0.92 ± 0.08
bn110609185	2.70E-07 ± 1.91E-08	0.98 ± 0.44	0.73 ± 0.14	0.49 ± 0.07
bn110609425	1.19E-06 ± 2.28E-08	1.41 ± 0.34	0.92 ± 0.18	0.64 ± 0.07
bn110610640	4.74E-06 ± 3.35E-08	3.77 ± 0.53	3.10 ± 0.25	2.42 ± 0.11
bn110613631	1.78E-06 ± 2.03E-08	1.21 ± 0.40	0.64 ± 0.14	0.49 ± 0.06
bn110616648	5.88E-07 ± 2.54E-08	1.19 ± 0.62	0.76 ± 0.20	0.51 ± 0.09
bn110618366	3.37E-05 ± 8.90E-08	5.21 ± 1.13	4.30 ± 0.48	3.06 ± 0.21
bn110618760	5.64E-06 ± 2.62E-08	2.66 ± 0.54	1.89 ± 0.23	1.19 ± 0.09
bn110622158	3.09E-05 ± 8.10E-08	8.14 ± 0.70	7.15 ± 0.33	6.79 ± 0.17
bn110624906	1.46E-07 ± 1.80E-08	0.84 ± 0.26	0.64 ± 0.13	0.43 ± 0.06
bn110625579	2.05E-06 ± 1.99E-08	1.75 ± 0.47	1.16 ± 0.17	0.76 ± 0.08
bn110625881	3.91E-05 ± 5.02E-08	39.77 ± 1.55	38.93 ± 0.75	35.88 ± 0.36
bn110626448	5.74E-07 ± 1.61E-08	2.15 ± 0.48	1.61 ± 0.21	1.38 ± 0.11
bn110629174	1.29E-06 ± 1.30E-08	4.77 ± 0.67	4.11 ± 0.31	2.15 ± 0.11
bn110702187	4.37E-06 ± 7.06E-08	3.22 ± 0.70	2.81 ± 0.34	2.28 ± 0.16
bn110703557	5.60E-07 ± 1.09E-08	2.89 ± 0.44	2.23 ± 0.20	1.70 ± 0.09
bn110705151	7.49E-07 ± 1.18E-08	18.25 ± 1.32	12.74 ± 0.58	3.39 ± 0.15
bn110705364	4.98E-06 ± 5.08E-08	4.02 ± 0.51	3.36 ± 0.24	2.86 ± 0.11
bn110706202	2.09E-06 ± 5.60E-08	2.39 ± 0.38	1.84 ± 0.19	1.37 ± 0.10
bn110706477	4.06E-06 ± 4.06E-08	2.14 ± 0.46	1.93 ± 0.21	1.11 ± 0.08
bn110706728	1.39E-06 ± 4.39E-08	3.30 ± 0.60	2.84 ± 0.25	1.81 ± 0.10
bn110706977	3.06E-06 ± 2.46E-08	2.95 ± 0.57	2.25 ± 0.28	1.88 ± 0.12
bn110709463	4.01E-06 ± 2.41E-08	8.04 ± 0.80	7.37 ± 0.39	6.06 ± 0.18
bn110709642	1.92E-05 ± 3.20E-08	8.18 ± 0.85	7.19 ± 0.44	6.05 ± 0.21
bn110709862	4.29E-07 ± 1.35E-08	2.22 ± 0.53	1.27 ± 0.22	0.91 ± 0.10
bn110710954	4.87E-06 ± 2.18E-08	9.46 ± 0.89	7.33 ± 0.41	3.83 ± 0.17
bn110716018	8.14E-07 ± 1.98E-08	7.22 ± 0.83	5.41 ± 0.38	2.23 ± 0.14
bn110717180	1.43E-07 ± 5.96E-09	10.95 ± 1.08	3.32 ± 0.34	0.84 ± 0.13
bn110717319	2.15E-05 ± 2.86E-08	10.01 ± 0.89	8.86 ± 0.43	7.61 ± 0.20
bn110720177	3.27E-06 ± 1.53E-08	3.42 ± 0.49	2.64 ± 0.22	2.36 ± 0.10

Table 8—Continued

Trigger ID	Fluence (erg cm <sup>-2</sup> )	PF64 (ph cm <sup>-2</sup> s <sup>-1</sup> )	PF256 (ph cm <sup>-2</sup> s <sup>-1</sup> )	PF1024 (ph cm <sup>-2</sup> s <sup>-1</sup> )
bn110721200	1.53E-05 ± 2.09E-08	16.99 ± 0.84	15.78 ± 0.42	14.10 ± 0.20
bn110722694	1.15E-05 ± 5.96E-08	3.19 ± 0.64	2.81 ± 0.28	2.53 ± 0.13
bn110722710	9.83E-07 ± 3.18E-08	2.28 ± 0.55	1.31 ± 0.24	0.90 ± 0.09
bn110725236	7.59E-07 ± 1.33E-08	2.43 ± 0.46	1.90 ± 0.22	1.28 ± 0.09
bn110726211	2.53E-06 ± 5.23E-08	2.56 ± 0.53	1.84 ± 0.23	1.26 ± 0.09
bn110728056	1.69E-07 ± 2.82E-08	2.65 ± 0.48	1.71 ± 0.21	1.05 ± 0.10
bn110729142	2.54E-05 ± 2.63E-08	4.59 ± 0.62	4.15 ± 0.32	3.58 ± 0.15
bn110730008	6.49E-07 ± 1.86E-08	1.18 ± 0.37	0.97 ± 0.17	0.53 ± 0.07
bn110730660	4.00E-06 ± 4.83E-08	3.48 ± 0.79	2.85 ± 0.35	2.30 ± 0.16
bn110731465	1.09E-05 ± 2.90E-08	12.25 ± 0.95	10.36 ± 0.45	8.35 ± 0.21
bn110801335	2.17E-07 ± 2.02E-08	6.10 ± 1.21	4.33 ± 0.50	1.46 ± 0.15
bn110803783	1.61E-06 ± 2.80E-08	0.93 ± 0.32	0.73 ± 0.13	0.56 ± 0.06
bn110806934	3.80E-06 ± 1.43E-08	2.45 ± 0.38	2.16 ± 0.19	1.76 ± 0.09
bn110809461	2.37E-06 ± 5.41E-08	4.18 ± 0.73	3.12 ± 0.30	2.22 ± 0.14
bn110812899	6.15E-07 ± 1.25E-08	1.55 ± 0.44	1.26 ± 0.20	1.06 ± 0.08
bn110813237	2.59E-06 ± 2.11E-08	3.88 ± 0.55	3.11 ± 0.24	2.65 ± 0.12
bn110817191	6.98E-06 ± 2.12E-08	14.41 ± 0.85	13.17 ± 0.42	12.87 ± 0.21
bn110818860	2.78E-06 ± 1.67E-08	1.85 ± 0.41	1.21 ± 0.17	0.74 ± 0.08
bn110819665	1.77E-06 ± 4.43E-08	9.00 ± 1.68	7.66 ± 0.79	5.09 ± 0.33
bn110820476	4.42E-07 ± 2.36E-08	1.11 ± 0.40	0.91 ± 0.18	0.74 ± 0.09
bn110824009	6.16E-06 ± 8.35E-08	14.13 ± 0.85	11.32 ± 0.43	7.31 ± 0.16
bn110825102	2.46E-05 ± 3.93E-08	36.30 ± 1.30	30.62 ± 0.58	25.08 ± 0.26
bn110825265	1.19E-06 ± 2.48E-08	0.67 ± 0.34	0.80 ± 0.18	0.67 ± 0.06
bn110828575	1.39E-06 ± 2.09E-08	1.71 ± 0.49	0.94 ± 0.17	0.66 ± 0.07
bn110831282	2.75E-06 ± 1.89E-08	2.54 ± 0.50	1.83 ± 0.22	1.43 ± 0.11
bn110901230	7.16E-07 ± 2.94E-08	0.93 ± 0.39	0.76 ± 0.15	0.54 ± 0.08
bn110903009	5.78E-06 ± 2.70E-08	8.42 ± 0.93	6.65 ± 0.44	5.53 ± 0.20
bn110903111	1.89E-05 ± 4.20E-08	3.85 ± 0.58	3.27 ± 0.27	2.57 ± 0.12
bn110904124	6.26E-06 ± 3.69E-08	4.20 ± 0.65	3.15 ± 0.29	2.40 ± 0.13
bn110904163	1.86E-06 ± 1.33E-08	2.27 ± 0.42	1.81 ± 0.19	1.25 ± 0.09
bn110904531	1.14E-06 ± 2.79E-08	2.13 ± 0.50	1.55 ± 0.24	1.18 ± 0.11
bn110906302	2.41E-06 ± 2.15E-08	3.37 ± 0.57	2.47 ± 0.27	2.14 ± 0.13

Table 8—Continued

Trigger ID	Fluence (erg cm <sup>-2</sup> )	PF64 (ph cm <sup>-2</sup> s <sup>-1</sup> )	PF256 (ph cm <sup>-2</sup> s <sup>-1</sup> )	PF1024 (ph cm <sup>-2</sup> s <sup>-1</sup> )
bn110909116	4.65E-06 ± 1.10E-07	12.33 ± 2.60	11.15 ± 1.43	8.61 ± 0.74
bn110911071	2.88E-07 ± 3.30E-08	2.37 ± 0.82	1.41 ± 0.39	0.84 ± 0.17
bn110916016	2.17E-07 ± 3.27E-08	1.65 ± 0.46	1.27 ± 0.21	0.81 ± 0.09
bn110919634	1.42E-05 ± 9.80E-08	6.53 ± 0.84	5.84 ± 0.35	5.20 ± 0.17
bn110920338	1.57E-06 ± 1.14E-08	4.12 ± 0.64	2.94 ± 0.27	1.82 ± 0.11
bn110920546	9.07E-05 ± 1.23E-07	9.25 ± 0.86	8.22 ± 0.43	7.73 ± 0.22
bn110921444	3.48E-06 ± 7.41E-08	1.38 ± 0.40	0.95 ± 0.16	0.68 ± 0.07
bn110921577	1.89E-06 ± 2.37E-08	1.72 ± 0.51	1.21 ± 0.25	0.90 ± 0.12
bn110921912	1.46E-05 ± 4.16E-08	19.41 ± 1.21	16.92 ± 0.55	14.72 ± 0.28
bn110923835	2.20E-06 ± 4.27E-08	2.37 ± 0.49	1.67 ± 0.22	1.18 ± 0.09
bn110926107	6.42E-06 ± 3.83E-08	3.89 ± 0.60	2.60 ± 0.26	2.18 ± 0.12
bn110928180	8.23E-06 ± 4.71E-08	3.70 ± 0.55	3.01 ± 0.25	2.37 ± 0.11
bn110929187	1.35E-06 ± 1.08E-08	3.67 ± 0.54	2.97 ± 0.26	2.79 ± 0.13
bn110930564	3.38E-06 ± 6.82E-08	2.50 ± 0.66	1.28 ± 0.29	1.10 ± 0.14
bn111001804	6.26E-08 ± 6.73E-09	2.02 ± 0.46	1.45 ± 0.19	0.42 ± 0.08
bn111003465	1.21E-05 ± 3.28E-08	10.96 ± 0.70	10.71 ± 0.36	9.40 ± 0.17
bn111005398	1.17E-06 ± 1.66E-08	1.35 ± 0.36	0.78 ± 0.16	0.48 ± 0.06
bn111008992	1.65E-06 ± 1.45E-08	0.96 ± 0.33	0.66 ± 0.14	0.45 ± 0.06
bn111009282	8.92E-06 ± 5.65E-08	8.57 ± 0.81	7.23 ± 0.38	6.26 ± 0.18
bn111010237	4.99E-06 ± 6.75E-08	1.78 ± 0.49	1.02 ± 0.20	0.79 ± 0.10
bn111010660	4.80E-07 ± 1.85E-08	1.61 ± 0.44	1.30 ± 0.19	0.98 ± 0.09
bn111010709	6.48E-06 ± 2.69E-08	3.02 ± 0.48	1.85 ± 0.23	1.57 ± 0.10
bn111010899	5.89E-07 ± 3.06E-08	1.47 ± 0.43	1.06 ± 0.20	0.76 ± 0.10
bn111011094	2.32E-07 ± 1.04E-08	8.61 ± 0.69	4.07 ± 0.24	1.11 ± 0.07
bn111012456	1.01E-05 ± 4.23E-08	6.83 ± 0.95	6.45 ± 0.47	5.37 ± 0.22
bn111012811	2.08E-06 ± 1.74E-08	12.76 ± 0.77	11.35 ± 0.37	7.13 ± 0.15
bn111015427	1.32E-05 ± 2.09E-07	5.80 ± 0.91	4.89 ± 0.41	4.24 ± 0.19
bn111017657	9.23E-06 ± 2.95E-08	9.41 ± 0.72	8.56 ± 0.33	8.00 ± 0.16
bn111018595	6.84E-07 ± 3.08E-08	1.88 ± 0.45	1.40 ± 0.23	1.17 ± 0.11
bn111018785	9.38E-07 ± 1.79E-08	1.25 ± 0.48	0.88 ± 0.21	0.61 ± 0.11
bn111022854	9.90E-08 ± 7.40E-09	3.78 ± 0.54	2.29 ± 0.23	0.62 ± 0.08
bn111024722	8.57E-06 ± 7.28E-08	6.12 ± 0.66	5.70 ± 0.34	4.06 ± 0.15

Table 8—Continued

Trigger ID	Fluence (erg cm <sup>-2</sup> )	PF64 (ph cm <sup>-2</sup> s <sup>-1</sup> )	PF256 (ph cm <sup>-2</sup> s <sup>-1</sup> )	PF1024 (ph cm <sup>-2</sup> s <sup>-1</sup> )
bn111024896	1.23E-07 ± 8.73E-09	3.16 ± 0.78	1.60 ± 0.25	0.60 ± 0.09
bn111025078	1.58E-06 ± 1.63E-08	1.81 ± 0.58	0.76 ± 0.18	0.51 ± 0.07
bn111103441	1.92E-06 ± 3.76E-08	3.86 ± 0.61	3.26 ± 0.30	2.37 ± 0.13
bn111103948	1.69E-07 ± 2.79E-08	4.32 ± 0.62	3.27 ± 0.28	1.28 ± 0.12
bn111105457	9.71E-07 ± 2.48E-08	1.57 ± 0.42	0.91 ± 0.17	0.62 ± 0.07
bn111107035	5.00E-07 ± 1.98E-08	1.28 ± 0.57	0.97 ± 0.24	0.56 ± 0.09
bn111107076	5.68E-06 ± 3.28E-08	2.30 ± 0.44	1.72 ± 0.21	1.49 ± 0.10
bn111109453	1.75E-07 ± 1.75E-08	0.95 ± 0.45	0.65 ± 0.15	0.46 ± 0.06
bn111109873	4.28E-06 ± 3.48E-07	8.81 ± 2.49	6.22 ± 1.07	4.41 ± 0.50
bn111112908	2.64E-07 ± 1.11E-08	7.93 ± 0.68	4.85 ± 0.28	1.33 ± 0.08
bn111113410	1.55E-06 ± 3.83E-08	2.90 ± 0.45	2.64 ± 0.22	2.15 ± 0.11
bn111114233	6.04E-07 ± 1.42E-08	1.24 ± 0.30	1.07 ± 0.16	0.74 ± 0.07
bn111117510	3.40E-07 ± 1.41E-08	6.22 ± 0.71	3.53 ± 0.29	1.64 ± 0.10
bn111117526	7.89E-07 ± 1.39E-08	1.49 ± 0.41	0.61 ± 0.13	0.31 ± 0.05
bn111120556	3.19E-06 ± 3.85E-08	2.06 ± 0.48	1.72 ± 0.23	1.37 ± 0.11
bn111124308	3.43E-07 ± 1.20E-08	0.96 ± 0.31	0.50 ± 0.13	0.39 ± 0.06
bn111127810	4.31E-06 ± 4.30E-08	5.66 ± 0.76	5.29 ± 0.36	4.69 ± 0.17
bn111201599	9.39E-07 ± 3.78E-08	1.51 ± 0.40	0.90 ± 0.19	0.55 ± 0.08
bn111203054	2.61E-06 ± 2.22E-08	3.84 ± 0.54	3.00 ± 0.24	2.38 ± 0.11
bn111203609	3.64E-07 ± 2.37E-08	1.50 ± 0.39	0.73 ± 0.17	0.54 ± 0.08
bn111207512	1.16E-07 ± 1.20E-08	1.90 ± 0.45	0.89 ± 0.19	0.55 ± 0.09
bn111208353	2.06E-06 ± 2.49E-08	1.40 ± 0.42	0.97 ± 0.19	0.79 ± 0.09
bn111216389	2.56E-05 ± 6.16E-08	9.12 ± 1.00	6.90 ± 0.47	5.03 ± 0.21
bn111220486	2.83E-05 ± 1.41E-07	19.40 ± 1.02	16.83 ± 0.47	12.34 ± 0.20
bn111221739	1.10E-06 ± 3.01E-08	10.64 ± 1.35	9.36 ± 0.63	4.22 ± 0.20
bn111222619	1.67E-06 ± 2.07E-08	30.66 ± 2.04	22.51 ± 0.92	7.07 ± 0.27
bn111226795	7.20E-06 ± 7.12E-08	2.24 ± 0.40	1.93 ± 0.18	1.51 ± 0.09
bn111228453	9.17E-07 ± 2.51E-08	4.10 ± 0.52	3.73 ± 0.25	3.26 ± 0.12
bn111228657	7.45E-06 ± 3.10E-08	7.30 ± 0.68	6.37 ± 0.32	4.88 ± 0.15
bn111230683	1.47E-06 ± 2.68E-08	2.98 ± 0.86	2.10 ± 0.34	1.32 ± 0.14
bn111230819	2.18E-06 ± 2.36E-08	4.10 ± 0.57	3.58 ± 0.26	2.46 ± 0.12
bn120101354	8.76E-08 ± 7.66E-09	4.61 ± 0.54	2.11 ± 0.22	0.55 ± 0.09

Table 8—Continued

Trigger ID	Fluence (erg cm <sup>-2</sup> )	PF64 (ph cm <sup>-2</sup> s <sup>-1</sup> )	PF256 (ph cm <sup>-2</sup> s <sup>-1</sup> )	PF1024 (ph cm <sup>-2</sup> s <sup>-1</sup> )
bn120102095	6.77E-06 ± 2.32E-08	9.18 ± 0.87	8.49 ± 0.39	7.74 ± 0.19
bn120102416	1.46E-06 ± 3.09E-08	2.33 ± 0.52	1.48 ± 0.22	1.28 ± 0.09
bn120105584	7.70E-07 ± 1.55E-08	1.42 ± 0.36	1.06 ± 0.18	0.65 ± 0.08
bn120107384	3.90E-06 ± 2.50E-08	4.20 ± 0.55	3.51 ± 0.25	2.74 ± 0.11
bn120109824	1.01E-06 ± 2.55E-08	1.68 ± 0.72	0.81 ± 0.25	0.57 ± 0.11
bn120111051	2.36E-06 ± 3.08E-08	1.60 ± 0.49	0.84 ± 0.17	0.53 ± 0.08
bn120114433	8.65E-08 ± 1.63E-08	1.56 ± 0.41	0.64 ± 0.15	0.36 ± 0.06
bn120114681	1.30E-06 ± 2.12E-08	1.47 ± 0.46	1.01 ± 0.22	0.58 ± 0.08
bn120118709	1.27E-06 ± 2.37E-08	1.65 ± 0.53	0.90 ± 0.23	0.72 ± 0.10
bn120118898	8.87E-07 ± 1.87E-08	7.40 ± 0.72	6.63 ± 0.32	2.98 ± 0.12
bn120119170	2.22E-05 ± 7.25E-08	8.75 ± 0.77	8.05 ± 0.39	7.39 ± 0.19
bn120119229	2.79E-06 ± 1.86E-08	2.68 ± 0.60	2.25 ± 0.22	1.69 ± 0.10
bn120119354	1.49E-06 ± 2.47E-08	3.01 ± 0.52	2.16 ± 0.25	1.48 ± 0.10
bn120120432	8.15E-07 ± 1.81E-08	1.40 ± 0.42	0.64 ± 0.14	0.35 ± 0.06
bn120121101	1.13E-06 ± 1.65E-08	1.53 ± 0.38	1.15 ± 0.17	0.79 ± 0.08
bn120121251	6.64E-06 ± 3.54E-08	3.58 ± 0.55	3.16 ± 0.28	2.55 ± 0.12
bn120122300	1.55E-06 ± 2.62E-08	2.08 ± 0.56	1.39 ± 0.22	0.91 ± 0.09
bn120129312	6.39E-08 ± 9.14E-09	1.01 ± 0.31	0.72 ± 0.15	0.29 ± 0.07
bn120129580	2.94E-05 ± 3.92E-08	112.97 ± 2.99	110.18 ± 1.47	81.16 ± 0.63
bn120130699	3.55E-06 ± 7.61E-08	4.72 ± 0.79	4.04 ± 0.37	2.81 ± 0.17
bn120130906	3.27E-07 ± 1.78E-08	1.30 ± 0.29	0.88 ± 0.15	0.63 ± 0.06
bn120130938	6.12E-06 ± 9.33E-08	4.42 ± 0.78	3.45 ± 0.35	2.76 ± 0.16
bn120203812	6.26E-07 ± 1.47E-08	2.80 ± 0.74	1.37 ± 0.24	0.88 ± 0.11
bn120204054	5.26E-05 ± 4.41E-08	16.64 ± 0.86	15.98 ± 0.42	15.43 ± 0.21
bn120205285	1.37E-07 ± 1.24E-08	1.48 ± 0.40	1.26 ± 0.19	0.67 ± 0.09
bn120206949	3.40E-06 ± 3.46E-08	13.20 ± 1.14	11.58 ± 0.52	9.86 ± 0.24
bn120210650	3.28E-07 ± 8.69E-09	3.80 ± 0.44	3.09 ± 0.20	1.71 ± 0.07
bn120212353	3.47E-08 ± 6.64E-09	3.86 ± 0.68	1.87 ± 0.25	0.72 ± 0.10
bn120212383	5.80E-07 ± 1.38E-08	1.58 ± 0.44	0.99 ± 0.20	0.79 ± 0.11
bn120213606	1.60E-06 ± 2.51E-08	4.93 ± 0.56	3.59 ± 0.26	2.78 ± 0.12
bn120217808	8.23E-07 ± 3.78E-08	3.48 ± 0.73	3.36 ± 0.34	2.58 ± 0.15
bn120217904	2.61E-06 ± 2.12E-08	23.54 ± 1.21	20.75 ± 0.58	10.44 ± 0.21

Table 8—Continued

Trigger ID	Fluence (erg cm <sup>-2</sup> )	PF64 (ph cm <sup>-2</sup> s <sup>-1</sup> )	PF256 (ph cm <sup>-2</sup> s <sup>-1</sup> )	PF1024 (ph cm <sup>-2</sup> s <sup>-1</sup> )
bn120218276	6.31E-06 ± 3.95E-08	1.58 ± 0.45	1.04 ± 0.19	0.80 ± 0.09
bn120219563	3.27E-07 ± 9.87E-09	0.78 ± 0.25	0.72 ± 0.12	0.47 ± 0.06
bn120220210	6.99E-07 ± 1.35E-08	1.61 ± 0.41	0.60 ± 0.13	0.42 ± 0.07
bn120222021	1.15E-06 ± 1.19E-08	10.91 ± 0.79	9.66 ± 0.37	6.47 ± 0.16
bn120222119	1.38E-06 ± 3.54E-08	2.29 ± 0.56	1.16 ± 0.24	0.86 ± 0.12
bn120223933	2.11E-06 ± 4.48E-08	2.59 ± 0.57	2.40 ± 0.23	2.08 ± 0.12
bn120224282	4.63E-06 ± 1.09E-07	2.74 ± 0.55	1.93 ± 0.25	1.46 ± 0.12
bn120224898	1.43E-06 ± 3.24E-08	1.41 ± 0.36	0.89 ± 0.15	0.69 ± 0.07
bn120226447	3.20E-06 ± 4.11E-08	4.65 ± 1.22	3.27 ± 0.47	2.31 ± 0.19
bn120226871	2.72E-05 ± 4.78E-08	6.56 ± 0.68	6.05 ± 0.33	5.04 ± 0.16
bn120227391	1.91E-06 ± 4.64E-08	3.43 ± 0.92	1.82 ± 0.30	0.96 ± 0.12
bn120227725	1.37E-05 ± 5.18E-08	11.19 ± 1.43	9.46 ± 0.70	8.06 ± 0.33
bn120302080	1.29E-06 ± 2.77E-08	0.91 ± 0.35	0.71 ± 0.15	0.51 ± 0.07
bn120302722	6.00E-08 ± 8.66E-09	1.98 ± 0.45	1.17 ± 0.17	0.50 ± 0.07
bn120304061	2.08E-06 ± 1.10E-08	3.78 ± 0.30	3.78 ± 0.15	3.25 ± 0.09
bn120304248	3.35E-06 ± 2.41E-08	12.78 ± 0.99	8.93 ± 0.52	5.30 ± 0.21
bn120308588	3.24E-06 ± 3.37E-08	8.77 ± 1.20	7.99 ± 0.57	6.21 ± 0.24
bn120312671	4.75E-07 ± 1.53E-08	1.17 ± 0.36	0.69 ± 0.19	0.47 ± 0.07
bn120314412	9.24E-08 ± 1.76E-08	0.97 ± 0.31	0.84 ± 0.13	0.45 ± 0.05
bn120316008	7.58E-06 ± 1.65E-08	6.26 ± 0.89	5.82 ± 0.43	3.52 ± 0.17
bn120319983	1.30E-06 ± 2.06E-08	1.23 ± 0.40	0.95 ± 0.16	0.51 ± 0.06
bn120323162	9.31E-07 ± 9.99E-09	4.60 ± 0.60	3.42 ± 0.27	2.43 ± 0.12
bn120323507	5.41E-06 ± 9.93E-09	180.72 ± 3.05	101.49 ± 1.15	29.94 ± 0.33
bn120326056	1.55E-06 ± 2.51E-08	2.86 ± 0.44	2.09 ± 0.21	1.84 ± 0.10
bn120327418	7.30E-08 ± 2.02E-08	3.48 ± 0.81	1.59 ± 0.25	0.50 ± 0.09
bn120328268	4.09E-05 ± 9.20E-08	19.88 ± 0.91	18.62 ± 0.45	16.98 ± 0.22
bn120331055	2.53E-07 ± 2.63E-08	6.05 ± 0.87	2.24 ± 0.30	0.52 ± 0.11
bn120402669	1.33E-06 ± 1.26E-08	3.04 ± 0.36	2.76 ± 0.30	2.46 ± 0.13
bn120403857	1.25E-07 ± 1.08E-08	0.60 ± 0.25	0.55 ± 0.12	0.40 ± 0.06
bn120410585	1.51E-07 ± 1.12E-08	4.61 ± 0.56	2.86 ± 0.26	0.77 ± 0.10
bn120411925	7.26E-07 ± 1.44E-08	1.13 ± 0.34	0.69 ± 0.12	0.42 ± 0.05
bn120412055	6.81E-07 ± 4.89E-08	1.77 ± 0.50	1.44 ± 0.24	1.04 ± 0.11



Table 8—Continued

Trigger ID	Fluence (erg cm <sup>-2</sup> )	PF64 (ph cm <sup>-2</sup> s <sup>-1</sup> )	PF256 (ph cm <sup>-2</sup> s <sup>-1</sup> )	PF1024 (ph cm <sup>-2</sup> s <sup>-1</sup> )
bn120412920	3.91E-06 ± 2.91E-08	3.67 ± 0.69	3.11 ± 0.33	2.38 ± 0.15
bn120415076	1.47E-06 ± 2.90E-08	2.69 ± 0.48	2.33 ± 0.22	1.92 ± 0.10
bn120415891	7.17E-08 ± 4.16E-09	1.59 ± 0.31	1.23 ± 0.14	0.53 ± 0.06
bn120415958	1.10E-06 ± 3.03E-08	2.51 ± 0.65	1.60 ± 0.35	1.16 ± 0.15
bn120420249	1.63E-06 ± 3.39E-08	2.10 ± 0.53	1.56 ± 0.25	1.20 ± 0.11
bn120420858	2.33E-05 ± 1.19E-07	3.49 ± 0.67	2.49 ± 0.31	2.10 ± 0.15
bn120426090	1.30E-05 ± 4.21E-08	39.97 ± 1.72	37.76 ± 0.83	34.98 ± 0.40
bn120426585	2.13E-06 ± 2.16E-08	1.94 ± 0.42	1.08 ± 0.21	0.70 ± 0.07
bn120427054	5.17E-06 ± 3.19E-08	10.01 ± 0.85	9.42 ± 0.41	8.67 ± 0.20
bn120427153	3.75E-07 ± 2.05E-08	0.80 ± 0.39	0.67 ± 0.15	0.41 ± 0.07
bn120429003	1.59E-07 ± 1.16E-08	2.58 ± 0.51	1.40 ± 0.18	0.87 ± 0.08
bn120429484	1.11E-06 ± 9.04E-09	1.87 ± 0.44	1.55 ± 0.19	1.26 ± 0.09
bn120430980	3.19E-07 ± 1.06E-08	0.76 ± 0.44	0.52 ± 0.18	0.40 ± 0.07
bn120504468	1.66E-06 ± 1.42E-08	1.01 ± 0.38	0.72 ± 0.17	0.53 ± 0.07
bn120504945	8.06E-07 ± 1.45E-08	2.48 ± 0.66	1.67 ± 0.27	1.22 ± 0.12
bn120506128	1.57E-07 ± 1.36E-08	1.22 ± 0.39	0.69 ± 0.16	0.58 ± 0.07
bn120509619	9.65E-08 ± 8.39E-09	1.79 ± 0.48	1.21 ± 0.18	0.54 ± 0.07
bn120510900	3.01E-06 ± 3.21E-08	1.43 ± 0.49	0.92 ± 0.21	0.52 ± 0.08
bn120511638	5.66E-06 ± 5.26E-08	3.83 ± 0.81	2.90 ± 0.36	2.21 ± 0.17
bn120512112	6.69E-06 ± 3.99E-08	4.01 ± 0.41	3.77 ± 0.22	3.53 ± 0.11
bn120513531	6.68E-07 ± 2.00E-08	1.30 ± 0.40	1.14 ± 0.20	0.75 ± 0.09
bn120519721	7.68E-07 ± 1.41E-08	6.11 ± 0.84	4.60 ± 0.41	3.12 ± 0.17
bn120520949	4.41E-07 ± 1.41E-08	1.70 ± 0.35	1.32 ± 0.18	1.06 ± 0.09
bn120521380	1.79E-06 ± 1.91E-08	1.39 ± 0.38	0.77 ± 0.17	0.52 ± 0.08
bn120522361	5.02E-06 ± 2.84E-08	5.49 ± 0.79	4.76 ± 0.38	3.95 ± 0.17
bn120524134	1.27E-07 ± 7.96E-09	5.49 ± 0.78	2.84 ± 0.33	0.91 ± 0.10
bn120526303	4.66E-05 ± 1.19E-07	12.63 ± 2.07	7.99 ± 0.93	6.36 ± 0.49
bn120528442	2.12E-06 ± 2.46E-08	2.87 ± 0.57	2.25 ± 0.27	1.84 ± 0.12
bn120530121	4.10E-06 ± 2.51E-08	2.74 ± 0.55	2.19 ± 0.25	1.56 ± 0.12
bn120531393	5.16E-07 ± 1.01E-08	1.00 ± 0.38	0.70 ± 0.16	0.47 ± 0.07
bn120603439	3.05E-07 ± 1.54E-08	6.48 ± 0.94	4.91 ± 0.37	1.60 ± 0.11
bn120604220	7.14E-07 ± 2.70E-08	3.45 ± 0.56	2.29 ± 0.23	0.99 ± 0.09

Table 8—Continued

Trigger ID	Fluence (erg cm <sup>-2</sup> )	PF64 (ph cm <sup>-2</sup> s <sup>-1</sup> )	PF256 (ph cm <sup>-2</sup> s <sup>-1</sup> )	PF1024 (ph cm <sup>-2</sup> s <sup>-1</sup> )
bn120604343	8.62E-07 ± 3.81E-08	1.16 ± 0.38	1.14 ± 0.20	0.69 ± 0.08
bn120605453	1.71E-06 ± 3.08E-08	5.94 ± 0.71	4.56 ± 0.32	3.74 ± 0.15
bn120608489	2.95E-07 ± 1.09E-08	4.18 ± 0.65	3.77 ± 0.31	1.40 ± 0.10
bn120608777	1.77E-06 ± 2.40E-08	2.37 ± 0.54	1.51 ± 0.23	1.13 ± 0.09
bn120609580	2.60E-07 ± 1.33E-08	1.73 ± 0.44	1.61 ± 0.22	1.15 ± 0.09
bn120611108	2.29E-06 ± 2.73E-08	3.60 ± 0.52	2.98 ± 0.25	1.45 ± 0.09
bn120612680	1.10E-06 ± 1.55E-08	1.36 ± 0.38	0.61 ± 0.18	0.48 ± 0.08
bn120612687	2.50E-07 ± 1.18E-08	5.83 ± 0.82	3.95 ± 0.35	1.14 ± 0.10
bn120616630	6.42E-08 ± 6.03E-09	3.25 ± 0.80	1.07 ± 0.23	0.28 ± 0.08
bn120618128	3.79E-06 ± 3.79E-08	3.25 ± 0.51	2.92 ± 0.24	2.63 ± 0.38
bn120618919	1.95E-06 ± 3.16E-08	4.67 ± 1.00	3.17 ± 0.41	1.75 ± 0.18
bn120619884	2.24E-07 ± 1.69E-08	2.72 ± 0.61	1.97 ± 0.23	1.00 ± 0.09
bn120624309	2.55E-06 ± 4.19E-08	48.93 ± 1.31	33.11 ± 0.63	10.60 ± 0.20
bn120624933	7.64E-05 ± 1.09E-07	9.99 ± 0.71	9.31 ± 0.35	8.28 ± 0.17
bn120625119	6.10E-06 ± 2.00E-08	10.74 ± 1.04	9.94 ± 0.49	9.55 ± 0.23
bn120629565	3.24E-08 ± 6.57E-09	0.83 ± 0.21	0.51 ± 0.10	0.24 ± 0.05
bn120701654	4.91E-08 ± 2.92E-08	1.56 ± 0.50	1.05 ± 0.24	0.41 ± 0.11
bn120702891	9.95E-07 ± 3.40E-08	1.16 ± 0.41	0.66 ± 0.14	0.44 ± 0.06
bn120703417	5.49E-06 ± 2.78E-08	3.58 ± 0.56	2.90 ± 0.25	2.55 ± 0.12
bn120703498	1.54E-06 ± 3.29E-08	1.90 ± 0.54	1.22 ± 0.21	0.73 ± 0.08
bn120703726	4.31E-06 ± 5.25E-08	11.92 ± 0.73	10.30 ± 0.36	8.60 ± 0.17
bn120707800	5.21E-05 ± 3.38E-07	28.34 ± 2.53	24.61 ± 1.23	22.60 ± 0.59
bn120709883	6.30E-06 ± 2.11E-08	10.91 ± 0.77	8.50 ± 0.36	5.00 ± 0.16
bn120710100	2.71E-06 ± 1.10E-08	1.99 ± 0.44	1.17 ± 0.17	0.90 ± 0.08
bn120711115	6.65E-05 ± 7.69E-08	19.05 ± 1.68	14.42 ± 0.64	12.19 ± 0.28
bn120711446	1.00E-06 ± 1.18E-08	0.73 ± 0.34	0.54 ± 0.10	0.31 ± 0.05
bn120712571	2.61E-06 ± 2.62E-08	2.49 ± 0.41	1.75 ± 0.18	1.61 ± 0.09
bn120713226	5.97E-07 ± 5.92E-08	1.04 ± 0.41	0.71 ± 0.17	0.52 ± 0.08
bn120715066	1.13E-06 ± 1.95E-08	2.14 ± 0.60	1.28 ± 0.20	0.75 ± 0.07
bn120716577	2.79E-06 ± 6.16E-08	2.03 ± 0.60	1.62 ± 0.24	1.43 ± 0.12
bn120716712	8.29E-06 ± 2.19E-08	7.10 ± 0.74	6.39 ± 0.35	3.30 ± 0.13
bn120719146	8.12E-06 ± 4.02E-08	3.31 ± 0.58	3.05 ± 0.28	2.25 ± 0.12

Table 8—Continued

Trigger ID	Fluence (erg cm <sup>-2</sup> )	PF64 (ph cm <sup>-2</sup> s <sup>-1</sup> )	PF256 (ph cm <sup>-2</sup> s <sup>-1</sup> )	PF1024 (ph cm <sup>-2</sup> s <sup>-1</sup> )
bn120727354	6.62E-08 ± 1.20E-08	0.73 ± 0.21	0.42 ± 0.10	0.27 ± 0.05
bn120727681	5.29E-06 ± 3.75E-08	6.69 ± 0.59	6.18 ± 0.29	5.70 ± 0.14
bn120728434	6.99E-05 ± 1.31E-06	17.70 ± 1.22	17.28 ± 0.60	15.98 ± 0.29
bn120728934	1.92E-06 ± 2.24E-08	3.32 ± 0.76	1.32 ± 0.23	0.80 ± 0.10
bn120729456	2.67E-06 ± 2.89E-08	2.39 ± 0.49	2.03 ± 0.22	1.80 ± 0.11
bn120801920	1.82E-05 ± 1.45E-07	6.91 ± 1.76	4.55 ± 0.79	3.78 ± 0.38
bn120805706	9.64E-08 ± 1.13E-08	0.76 ± 0.44	0.63 ± 0.15	0.50 ± 0.07
bn120806007	2.21E-06 ± 1.97E-08	3.23 ± 0.47	2.60 ± 0.21	2.37 ± 0.10
bn120811014	4.66E-07 ± 1.04E-08	8.16 ± 0.95	4.97 ± 0.40	1.82 ± 0.13
bn120811649	1.61E-06 ± 1.19E-07	3.34 ± 0.82	3.00 ± 0.40	2.17 ± 0.19
bn120814201	2.28E-07 ± 1.97E-08	3.57 ± 0.94	2.16 ± 0.35	1.44 ± 0.14
bn120814803	7.19E-08 ± 1.98E-08	2.81 ± 0.46	1.56 ± 0.19	0.36 ± 0.07
bn120817057	5.71E-07 ± 1.46E-08	0.99 ± 0.29	0.59 ± 0.12	0.29 ± 0.06
bn120817168	5.00E-07 ± 5.93E-09	19.28 ± 1.44	8.08 ± 0.47	2.19 ± 0.13
bn120819048	7.43E-07 ± 1.74E-08	1.59 ± 0.43	1.19 ± 0.18	0.71 ± 0.07
bn120820585	3.85E-06 ± 1.48E-08	1.16 ± 0.26	0.84 ± 0.12	0.67 ± 0.06
bn120822628	6.42E-08 ± 7.56E-09	0.82 ± 0.23	0.51 ± 0.11	0.32 ± 0.05
bn120824594	3.22E-06 ± 2.19E-08	1.56 ± 0.43	0.66 ± 0.14	0.42 ± 0.06
bn120827216	1.72E-06 ± 5.02E-08	4.48 ± 0.86	3.27 ± 0.34	2.67 ± 0.16
bn120830212	3.97E-06 ± 1.17E-07	6.94 ± 1.00	6.21 ± 0.47	3.76 ± 0.21
bn120830297	7.92E-07 ± 1.60E-08	5.06 ± 0.73	4.63 ± 0.34	3.14 ± 0.15
bn120830702	3.32E-06 ± 1.77E-08	2.69 ± 0.43	2.50 ± 0.21	1.70 ± 0.09
bn120831901	1.24E-07 ± 1.54E-08	5.33 ± 0.77	2.29 ± 0.25	0.69 ± 0.08
bn120905657	1.09E-05 ± 3.15E-07	1.71 ± 0.35	1.34 ± 0.18	1.15 ± 0.08
bn120907017	5.25E-07 ± 2.49E-08	3.67 ± 0.91	2.51 ± 0.41	1.65 ± 0.17
bn120908873	8.00E-06 ± 4.63E-08	4.13 ± 0.77	2.74 ± 0.36	2.10 ± 0.14
bn120908938	3.30E-06 ± 6.95E-08	2.22 ± 0.57	1.29 ± 0.23	1.03 ± 0.11
bn120909070	5.17E-06 ± 7.87E-08	2.29 ± 0.51	2.03 ± 0.26	1.09 ± 0.09
bn120911298	1.22E-06 ± 2.36E-08	1.85 ± 0.51	1.41 ± 0.24	1.08 ± 0.11
bn120913846	7.87E-07 ± 1.58E-08	0.99 ± 0.22	0.83 ± 0.14	0.64 ± 0.06
bn120913997	1.09E-05 ± 3.28E-08	2.80 ± 0.48	2.35 ± 0.22	1.90 ± 0.09
bn120914144	4.21E-07 ± 1.90E-08	2.11 ± 0.51	1.60 ± 0.22	1.06 ± 0.10

Table 8—Continued

Trigger ID	Fluence (erg cm <sup>-2</sup> )	PF64 (ph cm <sup>-2</sup> s <sup>-1</sup> )	PF256 (ph cm <sup>-2</sup> s <sup>-1</sup> )	PF1024 (ph cm <sup>-2</sup> s <sup>-1</sup> )
bn120915000	1.89E-07 ± 1.31E-08	3.05 ± 0.62	2.04 ± 0.26	0.89 ± 0.09
bn120915474	2.05E-07 ± 1.20E-08	1.16 ± 0.32	0.50 ± 0.11	0.32 ± 0.05
bn120916085	4.02E-08 ± 5.44E-09	2.53 ± 0.40	1.37 ± 0.19	0.59 ± 0.08
bn120916173	7.24E-06 ± 2.58E-08	1.33 ± 0.47	5.78 ± 0.40	5.09 ± 0.16
bn120919052	1.08E-05 ± 2.05E-08	7.36 ± 0.70	6.71 ± 0.34	4.62 ± 0.15
bn120919309	9.51E-06 ± 2.73E-08	13.78 ± 0.75	13.26 ± 0.37	11.89 ± 0.18
bn120919816	6.06E-07 ± 9.74E-09	1.77 ± 0.43	1.37 ± 0.20	0.76 ± 0.08
bn120920003	5.19E-07 ± 1.61E-08	1.06 ± 0.34	0.50 ± 0.13	0.28 ± 0.06
bn120921877	1.62E-06 ± 1.70E-08	7.30 ± 0.83	6.82 ± 0.40	5.31 ± 0.19
bn120922939	3.92E-06 ± 1.12E-07	1.13 ± 0.41	0.99 ± 0.21	0.82 ± 0.10
bn120926335	1.19E-06 ± 2.50E-08	7.83 ± 0.63	5.79 ± 0.27	2.91 ± 0.11
bn120926426	2.60E-06 ± 4.75E-08	2.97 ± 0.73	2.13 ± 0.30	1.30 ± 0.11
bn120926753	1.06E-07 ± 1.35E-08	1.33 ± 0.39	0.50 ± 0.14	0.32 ± 0.06
bn121004211	2.23E-07 ± 8.22E-09	2.50 ± 0.58	1.61 ± 0.24	0.96 ± 0.09
bn121005030	1.81E-06 ± 3.00E-08	2.77 ± 0.86	1.11 ± 0.25	0.54 ± 0.08
bn121005340	2.92E-06 ± 2.94E-08	1.92 ± 0.45	0.87 ± 0.14	0.68 ± 0.06
bn121008424	2.39E-07 ± 7.76E-09	1.96 ± 0.50	1.56 ± 0.22	1.01 ± 0.10
bn121011469	2.33E-06 ± 1.82E-08	1.69 ± 0.40	0.86 ± 0.13	0.64 ± 0.06
bn121012724	4.87E-07 ± 5.12E-09	6.29 ± 0.68	5.33 ± 0.31	2.14 ± 0.10
bn121014638	8.42E-08 ± 1.29E-08	1.59 ± 0.37	1.20 ± 0.16	0.51 ± 0.06
bn121019233	3.19E-07 ± 4.63E-08	2.22 ± 0.52	0.74 ± 0.16	0.30 ± 0.05
bn121023322	4.44E-07 ± 2.35E-08	5.35 ± 0.72	4.77 ± 0.38	2.47 ± 0.15
bn121027038	4.40E-06 ± 3.53E-08	1.51 ± 0.64	1.32 ± 0.29	0.97 ± 0.13
bn121028280	5.75E-07 ± 1.30E-08	1.73 ± 0.38	1.11 ± 0.17	0.76 ± 0.08
bn121029350	5.12E-06 ± 3.25E-08	12.74 ± 0.71	10.54 ± 0.34	7.42 ± 0.15
bn121031949	8.03E-06 ± 7.40E-08	2.67 ± 0.55	2.11 ± 0.26	1.81 ± 0.13
bn121102064	4.09E-07 ± 3.72E-08	0.79 ± 0.29	0.61 ± 0.14	0.48 ± 0.07
bn121104627	2.56E-06 ± 6.33E-08	1.69 ± 0.44	1.17 ± 0.19	0.94 ± 0.09
bn121109338	2.89E-06 ± 3.39E-08	3.13 ± 0.67	2.23 ± 0.28	1.95 ± 0.14
bn121112806	1.25E-07 ± 1.82E-08	2.29 ± 0.49	0.95 ± 0.14	0.62 ± 0.07
bn121113544	1.57E-05 ± 5.13E-08	5.41 ± 0.76	4.09 ± 0.35	3.14 ± 0.16
bn121116459	1.71E-07 ± 7.43E-09	2.90 ± 1.01	1.55 ± 0.31	0.95 ± 0.12

Table 8—Continued

Trigger ID	Fluence (erg cm <sup>-2</sup> )	PF64 (ph cm <sup>-2</sup> s <sup>-1</sup> )	PF256 (ph cm <sup>-2</sup> s <sup>-1</sup> )	PF1024 (ph cm <sup>-2</sup> s <sup>-1</sup> )
bn121117018	5.13E-06 ± 3.64E-08	2.10 ± 0.40	1.74 ± 0.18	1.31 ± 0.08
bn121118576	3.91E-06 ± 1.92E-08	17.23 ± 0.91	12.11 ± 0.39	4.96 ± 0.14
bn121119579	4.79E-07 ± 1.31E-08	4.85 ± 0.67	3.49 ± 0.29	1.84 ± 0.12
bn121122564	3.89E-07 ± 1.02E-08	1.37 ± 0.39	1.26 ± 0.18	0.93 ± 0.09
bn121122870	5.42E-06 ± 3.16E-08	3.29 ± 0.60	3.13 ± 0.31	1.92 ± 0.12
bn121122885	2.48E-05 ± 6.64E-08	22.18 ± 2.82	20.18 ± 1.43	18.90 ± 0.68
bn121123421	1.25E-05 ± 4.10E-07	2.53 ± 0.52	2.20 ± 0.25	1.93 ± 0.12
bn121123442	7.97E-06 ± 5.68E-08	4.06 ± 0.64	2.92 ± 0.26	2.29 ± 0.11
bn121124606	2.49E-08 ± 5.55E-09	1.58 ± 0.36	0.70 ± 0.13	0.20 ± 0.05
bn121125356	3.74E-06 ± 3.44E-08	3.05 ± 0.49	2.30 ± 0.21	1.62 ± 0.09
bn121125469	4.80E-07 ± 1.49E-08	1.09 ± 0.33	0.84 ± 0.13	0.60 ± 0.06
bn121127914	5.58E-07 ± 1.98E-08	9.86 ± 0.90	7.26 ± 0.43	2.32 ± 0.14
bn121128212	5.08E-06 ± 5.83E-08	10.82 ± 1.05	9.22 ± 0.49	7.23 ± 0.22
bn121202181	1.17E-06 ± 3.32E-08	1.15 ± 0.33	0.73 ± 0.18	0.48 ± 0.07
bn121205507	7.04E-08 ± 4.06E-09	0.90 ± 0.40	0.58 ± 0.18	0.26 ± 0.06
bn121210081	1.06E-06 ± 3.29E-08	1.56 ± 0.51	1.48 ± 0.26	0.82 ± 0.12
bn121211574	3.69E-07 ± 2.19E-08	1.39 ± 0.35	0.78 ± 0.16	0.58 ± 0.06
bn121211695	7.57E-07 ± 1.89E-08	2.11 ± 0.41	1.70 ± 0.19	1.43 ± 0.09
bn121216419	2.17E-07 ± 1.39E-08	1.42 ± 0.54	1.05 ± 0.22	0.53 ± 0.08
bn121217313	3.67E-06 ± 3.58E-08	2.53 ± 0.71	1.43 ± 0.27	0.94 ± 0.11
bn121220311	2.81E-07 ± 1.61E-08	0.67 ± 0.23	0.40 ± 0.11	0.30 ± 0.05
bn121221916	2.65E-06 ± 2.53E-08	1.83 ± 0.40	1.12 ± 0.18	0.93 ± 0.08
bn121223300	4.85E-06 ± 1.10E-08	5.56 ± 0.52	4.98 ± 0.25	4.61 ± 0.12
bn121225417	3.53E-05 ± 9.93E-08	14.02 ± 0.98	12.71 ± 0.47	11.08 ± 0.22
bn121229533	2.13E-06 ± 1.90E-08	2.42 ± 0.51	1.66 ± 0.21	1.34 ± 0.10
bn121231445	1.54E-06 ± 2.93E-08	1.45 ± 0.48	0.94 ± 0.18	0.58 ± 0.08
bn130104721	3.17E-06 ± 3.00E-08	3.32 ± 0.50	2.82 ± 0.24	2.20 ± 0.11
bn130106829	9.85E-07 ± 2.27E-08	1.68 ± 0.42	1.17 ± 0.19	0.94 ± 0.08
bn130106995	7.71E-06 ± 3.25E-08	2.66 ± 0.68	2.23 ± 0.33	1.73 ± 0.14
bn130109206	1.40E-06 ± 3.52E-08	3.53 ± 0.46	2.95 ± 0.22	2.36 ± 0.11
bn130112286	1.52E-06 ± 2.39E-08	4.68 ± 0.58	4.07 ± 0.27	2.61 ± 0.11
bn130112353	5.49E-07 ± 1.55E-08	4.22 ± 0.60	3.20 ± 0.28	1.66 ± 0.10

Table 8—Continued

Trigger ID	Fluence (erg cm <sup>-2</sup> )	PF64 (ph cm <sup>-2</sup> s <sup>-1</sup> )	PF256 (ph cm <sup>-2</sup> s <sup>-1</sup> )	PF1024 (ph cm <sup>-2</sup> s <sup>-1</sup> )
bn130114019	4.42E-07 ± 3.99E-08	1.36 ± 0.34	0.97 ± 0.17	0.74 ± 0.08
bn130115716	1.70E-06 ± 1.78E-08	2.61 ± 0.50	1.57 ± 0.21	1.11 ± 0.09
bn130116415	4.79E-07 ± 1.79E-08	2.38 ± 0.80	1.04 ± 0.25	0.39 ± 0.08
bn130117087	1.54E-06 ± 1.93E-08	0.96 ± 0.40	0.60 ± 0.13	0.40 ± 0.06
bn130118482	4.40E-07 ± 1.88E-08	0.80 ± 0.25	0.80 ± 0.13	0.36 ± 0.06
bn130121835	2.50E-05 ± 6.14E-08	15.72 ± 1.31	14.54 ± 0.66	11.57 ± 0.30
bn130123843	7.55E-07 ± 1.69E-08	1.78 ± 0.39	1.32 ± 0.19	0.94 ± 0.09
bn130127299	5.56E-07 ± 3.08E-08	1.04 ± 0.40	0.66 ± 0.14	0.41 ± 0.06
bn130127743	7.57E-08 ± 6.27E-09	4.85 ± 0.48	2.40 ± 0.23	0.52 ± 0.08
bn130131511	2.38E-05 ± 3.84E-08	4.91 ± 0.84	4.06 ± 0.35	3.44 ± 0.16
bn130204484	1.18E-07 ± 7.05E-09	4.15 ± 0.69	2.31 ± 0.25	0.60 ± 0.09
bn130206482	4.37E-06 ± 3.43E-08	8.31 ± 0.59	7.84 ± 0.29	6.98 ± 0.14
bn130206817	1.53E-06 ± 4.14E-08	1.82 ± 0.47	1.39 ± 0.21	0.73 ± 0.09
bn130208684	1.36E-06 ± 2.72E-08	1.85 ± 0.43	0.90 ± 0.16	0.60 ± 0.07
bn130209961	3.75E-06 ± 1.03E-08	6.70 ± 0.66	5.42 ± 0.30	3.96 ± 0.14
bn130213905	4.97E-07 ± 2.66E-08	0.75 ± 0.41	0.53 ± 0.20	0.48 ± 0.07
bn130214137	8.33E-07 ± 5.13E-08	0.81 ± 0.31	0.47 ± 0.10	0.31 ± 0.05
bn130214800	3.23E-06 ± 4.62E-08	3.57 ± 0.45	3.15 ± 0.22	2.62 ± 0.10
bn130215063	9.95E-06 ± 1.78E-07	2.06 ± 0.48	1.57 ± 0.21	1.22 ± 0.10
bn130215649	1.24E-05 ± 3.01E-08	5.20 ± 1.02	4.00 ± 0.42	3.38 ± 0.19
bn130216790	2.56E-06 ± 1.78E-08	6.36 ± 0.80	4.98 ± 0.32	4.18 ± 0.15
bn130216927	3.79E-06 ± 3.93E-08	7.62 ± 0.64	5.92 ± 0.31	5.23 ± 0.15
bn130217688	6.31E-07 ± 2.99E-08	1.94 ± 0.57	1.48 ± 0.24	1.30 ± 0.12
bn130218261	5.12E-06 ± 4.89E-08	4.17 ± 0.89	3.33 ± 0.43	2.25 ± 0.17
bn130219197	1.66E-05 ± 5.78E-08	2.43 ± 0.43	1.92 ± 0.22	1.40 ± 0.09
bn130219626	1.39E-07 ± 1.21E-08	4.16 ± 0.62	2.22 ± 0.23	0.60 ± 0.09
bn130219775	1.53E-05 ± 3.87E-08	8.85 ± 0.78	7.12 ± 0.35	6.65 ± 0.18
bn130220964	3.99E-06 ± 2.51E-08	11.53 ± 0.65	11.23 ± 0.32	9.61 ± 0.15
bn130224370	2.80E-06 ± 3.12E-08	2.09 ± 0.43	1.63 ± 0.18	1.24 ± 0.08
bn130228111	3.84E-06 ± 2.87E-08	3.58 ± 0.58	2.20 ± 0.26	1.80 ± 0.12
bn130228212	8.81E-06 ± 7.47E-08	14.32 ± 1.97	11.71 ± 0.95	7.96 ± 0.38
bn130304410	1.53E-05 ± 4.76E-08	7.10 ± 1.21	5.98 ± 0.59	3.09 ± 0.21

Table 8—Continued

Trigger ID	Fluence (erg cm <sup>-2</sup> )	PF64 (ph cm <sup>-2</sup> s <sup>-1</sup> )	PF256 (ph cm <sup>-2</sup> s <sup>-1</sup> )	PF1024 (ph cm <sup>-2</sup> s <sup>-1</sup> )
bn130304658	9.58E-07 ± 2.46E-08	2.52 ± 0.71	1.16 ± 0.22	0.65 ± 0.09
bn130305486	1.85E-05 ± 3.89E-08	14.97 ± 1.02	14.03 ± 0.49	13.24 ± 0.24
bn130305526	8.32E-07 ± 2.46E-08	0.99 ± 0.40	0.66 ± 0.16	0.26 ± 0.06
bn130306991	6.91E-05 ± 3.50E-07	16.05 ± 2.81	11.97 ± 1.26	9.64 ± 0.59
bn130307126	2.52E-07 ± 3.48E-09	4.36 ± 0.60	3.20 ± 0.25	1.42 ± 0.08
bn130307238	2.17E-06 ± 3.23E-08	1.69 ± 0.57	0.84 ± 0.17	0.59 ± 0.08
bn130310840	4.97E-06 ± 3.51E-08	78.95 ± 1.73	42.22 ± 0.77	18.23 ± 0.25
bn130314147	7.89E-06 ± 2.36E-08	2.60 ± 0.48	1.99 ± 0.23	1.51 ± 0.10
bn130318456	1.58E-06 ± 2.38E-08	1.67 ± 0.56	0.95 ± 0.27	0.69 ± 0.12
bn130320560	3.26E-05 ± 3.51E-07	21.25 ± 0.88	20.51 ± 0.44	19.08 ± 0.21
bn130324042	1.27E-06 ± 1.83E-08	1.12 ± 0.33	0.57 ± 0.12	0.42 ± 0.06
bn130325005	4.16E-08 ± 9.29E-09	2.84 ± 0.47	1.06 ± 0.16	0.35 ± 0.07
bn130325203	4.18E-06 ± 1.58E-08	7.77 ± 0.56	7.48 ± 0.29	6.39 ± 0.14
bn130327350	2.75E-05 ± 4.33E-08	9.11 ± 0.82	8.18 ± 0.40	6.87 ± 0.18
bn130331566	5.47E-06 ± 2.71E-08	8.00 ± 1.04	7.61 ± 0.53	6.72 ± 0.25
bn130403866	6.15E-07 ± 3.69E-08	1.65 ± 0.47	0.81 ± 0.21	0.52 ± 0.10
bn130404428	4.90E-07 ± 2.46E-08	3.87 ± 0.56	2.04 ± 0.21	1.42 ± 0.10
bn130404840	3.65E-06 ± 3.45E-08	5.20 ± 0.67	4.81 ± 0.33	4.22 ± 0.16
bn130404877	1.30E-07 ± 3.16E-08	2.48 ± 0.51	1.60 ± 0.23	0.65 ± 0.09
bn130406288	1.73E-06 ± 2.84E-08	7.37 ± 0.61	6.08 ± 0.29	4.58 ± 0.13
bn130406334	1.73E-06 ± 5.92E-08	2.58 ± 0.72	1.54 ± 0.28	1.12 ± 0.12
bn130406354	1.97E-07 ± 1.68E-08	1.24 ± 0.40	1.17 ± 0.20	0.80 ± 0.10
bn130407800	8.88E-07 ± 2.70E-08	1.07 ± 0.34	0.63 ± 0.14	0.33 ± 0.06
bn130408653	1.16E-06 ± 2.62E-08	3.74 ± 0.68	3.34 ± 0.34	1.98 ± 0.14
bn130409960	4.41E-06 ± 2.61E-08	4.18 ± 0.60	3.96 ± 0.29	3.63 ± 0.14
bn130416690	1.73E-07 ± 1.03E-08	1.45 ± 0.40	0.91 ± 0.19	0.68 ± 0.09
bn130416770	2.79E-07 ± 1.03E-08	10.67 ± 0.99	4.52 ± 0.32	1.27 ± 0.10
bn130418844	2.87E-06 ± 1.80E-08	1.73 ± 0.50	1.13 ± 0.18	0.86 ± 0.07
bn130420313	5.79E-06 ± 1.30E-07	2.47 ± 0.76	1.76 ± 0.35	1.38 ± 0.17
bn130420343	3.90E-06 ± 3.35E-08	1.90 ± 0.39	1.48 ± 0.17	1.15 ± 0.09
bn130420422	2.02E-06 ± 2.35E-08	3.73 ± 0.85	2.83 ± 0.34	2.23 ± 0.15
bn130420539	8.76E-07 ± 3.46E-08	1.37 ± 0.43	0.86 ± 0.19	0.71 ± 0.09

Table 8—Continued

Trigger ID	Fluence (erg cm <sup>-2</sup> )	PF64 (ph cm <sup>-2</sup> s <sup>-1</sup> )	PF256 (ph cm <sup>-2</sup> s <sup>-1</sup> )	PF1024 (ph cm <sup>-2</sup> s <sup>-1</sup> )
bn130425327	2.22E-05 ± 7.08E-08	15.05 ± 2.18	11.76 ± 0.94	9.36 ± 0.43
bn130427324	8.17E-04 ± 6.59E-07	576.56 ± 7.07	556.91 ± 3.58	496.29 ± 1.62
bn130502327	5.70E-05 ± 3.84E-08	47.10 ± 1.62	40.08 ± 0.76	26.14 ± 0.32
bn130502743	3.64E-07 ± 2.09E-08	2.97 ± 0.66	2.23 ± 0.30	1.11 ± 0.11
bn130503214	2.67E-08 ± 5.16E-09	3.28 ± 0.54	1.10 ± 0.20	0.24 ± 0.09
bn130504314	1.46E-06 ± 1.77E-08	24.19 ± 1.21	15.90 ± 0.65	6.22 ± 0.22
bn130504978	5.60E-05 ± 1.18E-07	24.79 ± 1.45	23.91 ± 0.71	19.52 ± 0.31
bn130505955	4.25E-06 ± 1.09E-07	3.68 ± 0.72	2.81 ± 0.29	2.04 ± 0.13
bn130507545	2.42E-06 ± 2.48E-08	1.62 ± 0.41	1.52 ± 0.20	1.02 ± 0.08
bn130509078	4.65E-06 ± 3.12E-08	5.70 ± 0.65	4.40 ± 0.29	4.04 ± 0.14
bn130509839	8.96E-07 ± 1.26E-08	0.82 ± 0.28	0.49 ± 0.11	0.32 ± 0.06
bn130510877	1.68E-06 ± 4.16E-08	2.00 ± 0.47	1.18 ± 0.20	0.95 ± 0.09
bn130514560	1.27E-06 ± 2.53E-08	3.99 ± 0.86	3.57 ± 0.40	2.66 ± 0.19
bn130515056	2.92E-07 ± 4.81E-09	8.13 ± 0.86	4.79 ± 0.35	1.36 ± 0.12
bn130515430	5.20E-07 ± 2.28E-08	0.92 ± 0.32	0.67 ± 0.15	0.45 ± 0.07
bn130515755	4.06E-07 ± 1.09E-08	2.25 ± 0.55	2.03 ± 0.28	1.39 ± 0.13
bn130517781	1.09E-05 ± 4.22E-08	4.18 ± 0.56	3.58 ± 0.27	3.13 ± 0.13
bn130518551	1.42E-06 ± 2.57E-08	8.63 ± 0.80	6.57 ± 0.29	3.47 ± 0.11
bn130518580	4.46E-05 ± 8.03E-08	23.01 ± 1.04	22.44 ± 0.52	21.33 ± 0.26
bn130522510	1.88E-06 ± 1.93E-08	2.90 ± 0.48	2.04 ± 0.22	1.61 ± 0.11
bn130523095	3.39E-06 ± 2.85E-08	5.43 ± 0.82	4.80 ± 0.40	3.61 ± 0.18
bn130523198	1.29E-06 ± 1.73E-08	3.17 ± 0.44	2.60 ± 0.21	2.29 ± 0.10
bn130527627	6.14E-06 ± 3.62E-08	3.56 ± 0.64	2.56 ± 0.27	2.30 ± 0.13
bn130528503	1.88E-06 ± 1.46E-08	1.57 ± 0.41	1.34 ± 0.20	1.01 ± 0.08
bn130528695	6.61E-06 ± 6.89E-08	4.72 ± 0.68	3.73 ± 0.31	3.10 ± 0.14
bn130530719	3.49E-06 ± 2.14E-08	2.51 ± 0.48	1.67 ± 0.20	1.32 ± 0.10
bn130604033	9.44E-06 ± 6.71E-08	9.33 ± 0.85	7.49 ± 0.38	5.34 ± 0.17
bn130606316	4.66E-06 ± 2.25E-08	4.82 ± 0.48	3.81 ± 0.21	3.18 ± 0.10
bn130606497	8.86E-05 ± 1.05E-07	32.55 ± 1.64	29.88 ± 0.75	26.48 ± 0.34
bn130609129	4.56E-07 ± 3.45E-08	1.04 ± 0.38	0.76 ± 0.14	0.65 ± 0.06
bn130609902	2.45E-05 ± 1.68E-07	9.08 ± 1.12	8.32 ± 0.56	7.40 ± 0.25
bn130610133	2.10E-06 ± 2.45E-08	2.27 ± 0.55	1.61 ± 0.25	1.27 ± 0.12



Table 8—Continued

Trigger ID	Fluence (erg cm <sup>-2</sup> )	PF64 (ph cm <sup>-2</sup> s <sup>-1</sup> )	PF256 (ph cm <sup>-2</sup> s <sup>-1</sup> )	PF1024 (ph cm <sup>-2</sup> s <sup>-1</sup> )
bn130611538	4.02E-06 ± 5.08E-08	2.06 ± 0.49	1.30 ± 0.23	0.98 ± 0.10
bn130612141	3.24E-07 ± 4.24E-08	0.31 ± 0.08	0.28 ± 0.04	0.24 ± 0.04
bn130612456	5.10E-06 ± 2.15E-08	13.58 ± 0.88	12.84 ± 0.43	11.48 ± 0.20
bn130614997	3.51E-06 ± 4.84E-08	7.63 ± 0.67	6.27 ± 0.44	4.86 ± 0.14
bn130615398	1.51E-06 ± 8.16E-08	2.21 ± 0.69	1.58 ± 0.30	0.92 ± 0.13
bn130617564	1.35E-07 ± 8.74E-09	1.85 ± 0.54	1.53 ± 0.26	1.02 ± 0.12
bn130620498	7.48E-07 ± 3.42E-08	1.66 ± 0.40	1.40 ± 0.19	1.19 ± 0.09
bn130622615	2.52E-07 ± 1.20E-08	3.39 ± 0.57	2.43 ± 0.23	1.28 ± 0.09
bn130623130	5.48E-07 ± 9.98E-09	1.53 ± 0.36	1.17 ± 0.16	0.69 ± 0.07
bn130623396	5.95E-07 ± 2.70E-08	1.22 ± 0.35	0.75 ± 0.18	0.49 ± 0.08
bn130623488	1.10E-06 ± 1.64E-08	1.60 ± 0.50	1.13 ± 0.22	0.82 ± 0.09
bn130623699	4.40E-07 ± 2.16E-08	1.33 ± 0.54	0.76 ± 0.22	0.49 ± 0.09
bn130623790	4.37E-06 ± 2.96E-08	5.66 ± 0.78	4.09 ± 0.30	3.37 ± 0.14
bn130624093	2.93E-07 ± 1.20E-08	1.45 ± 0.38	0.84 ± 0.17	0.53 ± 0.09
bn130626452	1.17E-07 ± 4.46E-09	3.28 ± 0.65	1.81 ± 0.23	0.55 ± 0.08
bn130626596	2.71E-06 ± 1.45E-08	3.75 ± 0.68	2.51 ± 0.29	1.69 ± 0.12
bn130627372	8.93E-07 ± 1.31E-08	2.15 ± 0.49	1.84 ± 0.24	0.97 ± 0.09
bn130628531	4.81E-06 ± 2.95E-08	7.92 ± 0.60	7.72 ± 0.32	5.66 ± 0.14
bn130628860	2.99E-07 ± 5.51E-09	8.64 ± 0.97	3.45 ± 0.29	1.38 ± 0.09
bn130630272	9.86E-06 ± 3.85E-08	7.50 ± 1.02	6.38 ± 0.49	5.71 ± 0.24
bn130701060	3.77E-06 ± 4.96E-08	6.34 ± 1.02	5.43 ± 0.49	4.56 ± 0.23
bn130701761	1.88E-06 ± 1.40E-08	8.52 ± 0.89	6.51 ± 0.38	5.22 ± 0.17
bn130702004	2.85E-06 ± 6.37E-08	2.69 ± 0.73	1.69 ± 0.34	1.24 ± 0.18
bn130702951	4.34E-07 ± 2.09E-08	0.87 ± 0.32	0.71 ± 0.12	0.46 ± 0.06
bn130704560	1.38E-05 ± 2.92E-08	31.54 ± 1.27	26.75 ± 0.59	23.03 ± 0.28
bn130705398	7.78E-08 ± 1.34E-08	3.32 ± 0.68	1.76 ± 0.24	0.52 ± 0.09
bn130706900	9.65E-08 ± 1.32E-08	4.20 ± 0.58	1.93 ± 0.25	0.44 ± 0.08
bn130707505	5.43E-06 ± 5.90E-08	3.75 ± 0.98	2.30 ± 0.41	1.66 ± 0.19
bn130708488	1.45E-06 ± 1.44E-08	2.29 ± 0.46	1.53 ± 0.18	1.03 ± 0.07
bn130715906	2.09E-05 ± 8.90E-08	4.87 ± 0.72	4.34 ± 0.36	3.73 ± 0.17
bn130716352	1.63E-06 ± 3.14E-08	1.40 ± 0.41	0.88 ± 0.18	0.54 ± 0.08
bn130716442	2.13E-07 ± 4.02E-09	2.74 ± 0.59	2.12 ± 0.26	0.93 ± 0.09

Table 8—Continued

Trigger ID	Fluence (erg cm <sup>-2</sup> )	PF64 (ph cm <sup>-2</sup> s <sup>-1</sup> )	PF256 (ph cm <sup>-2</sup> s <sup>-1</sup> )	PF1024 (ph cm <sup>-2</sup> s <sup>-1</sup> )
bn130717734	9.53E-07 ± 2.32E-08	1.56 ± 0.41	1.27 ± 0.20	0.64 ± 0.09
bn130720116	2.22E-06 ± 3.32E-08	2.45 ± 0.56	1.82 ± 0.22	1.35 ± 0.10
bn130720582	5.11E-05 ± 8.38E-08	9.63 ± 0.79	8.33 ± 0.38	7.39 ± 0.18
bn130722021	6.78E-07 ± 2.16E-08	1.39 ± 0.43	0.55 ± 0.13	0.28 ± 0.05
bn130722990	3.39E-07 ± 9.47E-09	2.66 ± 0.52	2.15 ± 0.22	1.37 ± 0.09
bn130723092	4.24E-07 ± 1.57E-08	1.95 ± 0.37	1.66 ± 0.19	1.35 ± 0.09
bn130725527	2.77E-06 ± 3.28E-08	8.51 ± 0.73	7.53 ± 0.36	5.59 ± 0.15
bn130727698	4.58E-06 ± 3.40E-08	6.05 ± 0.95	5.09 ± 0.44	4.04 ± 0.21
bn130730243	1.04E-06 ± 2.29E-08	1.48 ± 0.49	1.06 ± 0.20	0.69 ± 0.10
bn130802730	1.20E-07 ± 7.08E-09	5.11 ± 0.73	1.56 ± 0.25	0.39 ± 0.11
bn130803419	1.79E-06 ± 2.25E-08	5.02 ± 0.69	3.96 ± 0.32	3.37 ± 0.15
bn130804023	8.10E-07 ± 8.61E-09	22.88 ± 1.21	9.24 ± 0.40	3.67 ± 0.13
bn130808253	1.22E-07 ± 9.39E-09	6.77 ± 0.86	3.48 ± 0.36	0.95 ± 0.11
bn130811186	3.23E-06 ± 4.37E-08	1.68 ± 0.37	1.50 ± 0.20	1.19 ± 0.09
bn130813791	6.68E-07 ± 1.18E-08	2.30 ± 0.41	1.67 ± 0.19	1.01 ± 0.08
bn130815420	2.71E-05 ± 5.68E-08	5.01 ± 0.64	3.78 ± 0.31	2.94 ± 0.13
bn130815660	6.91E-06 ± 2.63E-08	13.91 ± 0.89	12.77 ± 0.43	11.38 ± 0.20
bn130816074	3.75E-07 ± 1.40E-08	1.16 ± 0.38	0.77 ± 0.16	0.41 ± 0.06
bn130818941	2.06E-06 ± 3.47E-08	5.27 ± 0.64	4.36 ± 0.31	2.70 ± 0.13
bn130819394	4.84E-06 ± 3.66E-08	1.71 ± 0.48	1.14 ± 0.21	0.90 ± 0.09
bn130821674	2.92E-05 ± 4.32E-08	18.92 ± 0.94	17.10 ± 0.44	11.84 ± 0.18
bn130828306	2.13E-05 ± 3.13E-08	4.26 ± 0.64	3.27 ± 0.28	3.11 ± 0.13
bn130828808	1.42E-06 ± 1.65E-08	5.27 ± 0.59	4.42 ± 0.27	3.45 ± 0.13
bn130829672	2.14E-06 ± 2.60E-08	5.01 ± 0.82	4.36 ± 0.39	3.78 ± 0.19
bn130830864	1.06E-06 ± 2.71E-08	1.24 ± 0.40	0.64 ± 0.16	0.39 ± 0.06
bn130830921	8.01E-07 ± 1.73E-08	1.86 ± 0.58	0.97 ± 0.22	0.63 ± 0.10
bn130831058	1.14E-06 ± 1.30E-08	1.23 ± 0.42	0.78 ± 0.19	0.60 ± 0.08
bn130903033	1.17E-06 ± 2.90E-08	0.90 ± 0.42	0.63 ± 0.18	0.29 ± 0.06
bn130905377	2.46E-06 ± 4.38E-08	2.54 ± 0.50	1.96 ± 0.24	1.61 ± 0.11
bn130906222	3.48E-07 ± 1.58E-08	1.28 ± 0.44	0.83 ± 0.18	0.57 ± 0.08
bn130906435	4.60E-07 ± 1.83E-08	1.86 ± 0.40	1.58 ± 0.21	1.03 ± 0.09
bn130907760	1.43E-07 ± 1.53E-08	1.77 ± 0.37	1.07 ± 0.14	0.58 ± 0.06

Table 8—Continued

Trigger ID	Fluence (erg cm <sup>-2</sup> )	PF64 (ph cm <sup>-2</sup> s <sup>-1</sup> )	PF256 (ph cm <sup>-2</sup> s <sup>-1</sup> )	PF1024 (ph cm <sup>-2</sup> s <sup>-1</sup> )
bn130908677	1.85E-06 ± 9.29E-08	1.38 ± 0.47	0.95 ± 0.23	0.53 ± 0.11
bn130909817	1.05E-06 ± 3.25E-08	0.92 ± 0.33	0.66 ± 0.16	0.40 ± 0.06
bn130912358	4.07E-07 ± 1.09E-08	8.53 ± 0.80	5.76 ± 0.36	2.14 ± 0.13
bn130919173	2.29E-07 ± 4.64E-09	7.46 ± 0.65	4.36 ± 0.27	1.44 ± 0.09
bn130919352	2.55E-06 ± 1.87E-08	1.54 ± 0.34	1.11 ± 0.15	0.67 ± 0.07
bn130919985	1.50E-06 ± 3.93E-08	1.98 ± 0.53	1.35 ± 0.26	0.95 ± 0.13
bn130924255	2.00E-06 ± 2.90E-08	2.99 ± 0.69	2.41 ± 0.32	1.45 ± 0.13
bn130924910	2.08E-07 ± 1.57E-08	2.34 ± 0.43	1.61 ± 0.18	0.97 ± 0.08
bn130925164	2.83E-07 ± 1.30E-08	0.85 ± 0.37	0.50 ± 0.15	0.41 ± 0.07
bn130925173	4.08E-05 ± 1.40E-07	3.51 ± 0.49	3.06 ± 0.23	2.66 ± 0.11
bn130925546	7.49E-06 ± 1.20E-07	3.25 ± 0.96	1.97 ± 0.44	1.52 ± 0.17
bn130928537	7.32E-06 ± 3.59E-08	2.68 ± 0.81	1.98 ± 0.33	1.20 ± 0.13
bn130929375	1.32E-07 ± 5.82E-09	0.82 ± 0.23	0.46 ± 0.11	0.35 ± 0.05
bn131002288	6.71E-07 ± 2.72E-08	1.73 ± 0.55	1.22 ± 0.32	0.68 ± 0.12
bn131004904	2.98E-07 ± 1.02E-08	3.67 ± 0.68	2.75 ± 0.31	1.83 ± 0.12
bn131006367	4.94E-08 ± 7.64E-09	2.10 ± 0.52	1.07 ± 0.23	0.28 ± 0.10
bn131006840	9.40E-07 ± 2.81E-08	2.71 ± 0.61	1.30 ± 0.24	0.86 ± 0.11
bn131008858	4.43E-06 ± 3.42E-08	4.29 ± 1.03	2.61 ± 0.38	2.15 ± 0.18
bn131011741	5.06E-06 ± 3.78E-08	2.67 ± 0.39	2.22 ± 0.24	1.95 ± 0.11
bn131014215	9.55E-05 ± 7.52E-08	253.48 ± 3.99	230.39 ± 1.91	174.06 ± 0.82
bn131014513	1.13E-06 ± 2.55E-08	2.27 ± 0.60	1.28 ± 0.22	0.87 ± 0.09
bn131018673	1.60E-06 ± 6.16E-08	1.46 ± 0.44	0.97 ± 0.19	0.58 ± 0.09
bn131020113	1.80E-07 ± 1.66E-08	1.29 ± 0.40	0.84 ± 0.19	0.67 ± 0.09
bn131021352	6.97E-07 ± 2.61E-08	4.84 ± 0.73	3.68 ± 0.33	1.46 ± 0.13
bn131024900	7.50E-07 ± 2.33E-08	1.88 ± 0.40	1.27 ± 0.19	0.74 ± 0.09
bn131028076	5.12E-05 ± 7.34E-08	31.52 ± 1.88	29.19 ± 0.93	27.54 ± 0.46
bn131028096	7.93E-07 ± 2.93E-08	0.73 ± 0.46	0.67 ± 0.11	0.48 ± 0.05
bn131029973	1.54E-05 ± 6.83E-08	3.10 ± 0.51	2.42 ± 0.23	2.23 ± 0.11
bn131029990	2.44E-06 ± 5.13E-08	1.41 ± 0.38	0.82 ± 0.16	0.66 ± 0.07
bn131030653	9.33E-07 ± 1.74E-08	1.67 ± 0.42	1.09 ± 0.17	0.60 ± 0.07
bn131030791	2.09E-06 ± 1.64E-08	2.49 ± 0.42	1.94 ± 0.20	1.61 ± 0.09
bn131031482	2.41E-06 ± 3.16E-08	8.35 ± 0.70	6.33 ± 0.30	4.57 ± 0.13

Table 8—Continued

Trigger ID	Fluence (erg cm <sup>-2</sup> )	PF64 (ph cm <sup>-2</sup> s <sup>-1</sup> )	PF256 (ph cm <sup>-2</sup> s <sup>-1</sup> )	PF1024 (ph cm <sup>-2</sup> s <sup>-1</sup> )
bn131102622	7.67E-07 ± 2.49E-08	1.07 ± 0.38	0.61 ± 0.17	0.34 ± 0.07
bn131105087	1.32E-05 ± 5.70E-08	4.93 ± 0.58	4.59 ± 0.30	3.57 ± 0.13
bn131108024	1.56E-06 ± 2.61E-08	4.33 ± 0.61	3.62 ± 0.31	2.73 ± 0.14
bn131108862	1.71E-05 ± 6.69E-08	16.82 ± 1.02	12.95 ± 0.44	9.64 ± 0.19
bn131110373	2.10E-06 ± 2.25E-08	1.71 ± 0.47	1.24 ± 0.21	0.84 ± 0.09
bn131113483	1.32E-05 ± 5.22E-08	5.25 ± 0.66	3.92 ± 0.31	3.53 ± 0.15
bn131117766	8.93E-06 ± 3.93E-08	1.80 ± 0.38	1.43 ± 0.17	1.21 ± 0.08
bn131118958	3.61E-05 ± 1.94E-07	9.94 ± 1.54	8.10 ± 0.65	6.03 ± 0.30
bn131119781	1.11E-06 ± 1.45E-08	1.83 ± 0.40	1.39 ± 0.19	0.98 ± 0.09
bn131122490	1.49E-05 ± 3.95E-08	9.48 ± 0.84	8.67 ± 0.46	7.30 ± 0.22
bn131123543	2.43E-07 ± 1.47E-08	3.18 ± 0.55	1.88 ± 0.20	0.96 ± 0.08
bn131125689	1.75E-07 ± 1.51E-08	3.75 ± 1.07	1.77 ± 0.31	0.84 ± 0.10
bn131126163	5.47E-07 ± 1.47E-08	18.42 ± 1.56	9.57 ± 0.60	2.43 ± 0.17
bn131127480	2.25E-06 ± 2.97E-08	0.84 ± 0.30	0.54 ± 0.10	0.44 ± 0.05
bn131127592	2.07E-05 ± 7.63E-08	23.05 ± 1.13	21.27 ± 0.56	16.44 ± 0.24
bn131127696	6.70E-07 ± 3.30E-08	1.25 ± 0.35	1.08 ± 0.17	0.68 ± 0.07
bn131128629	2.91E-07 ± 2.22E-08	1.92 ± 0.57	1.55 ± 0.27	1.09 ± 0.13
bn131202633	4.47E-07 ± 2.72E-08	0.87 ± 0.31	0.66 ± 0.14	0.43 ± 0.06
bn131202906	6.58E-06 ± 2.37E-08	2.53 ± 0.58	1.69 ± 0.27	1.32 ± 0.12
bn131204937	9.47E-07 ± 1.22E-08	1.66 ± 0.47	1.03 ± 0.19	0.69 ± 0.09
bn131209547	7.42E-06 ± 4.69E-08	5.96 ± 0.68	5.61 ± 0.33	4.84 ± 0.16
bn131209963	4.48E-07 ± 4.81E-08	2.25 ± 0.50	1.82 ± 0.25	1.26 ± 0.12
bn131211510	2.24E-06 ± 2.63E-08	1.94 ± 0.50	1.22 ± 0.23	0.78 ± 0.06
bn131212814	2.45E-07 ± 2.60E-08	0.72 ± 0.36	0.43 ± 0.13	0.36 ± 0.06
bn131214705	3.57E-05 ± 1.10E-07	9.77 ± 0.76	9.25 ± 0.38	8.97 ± 0.18
bn131215298	3.83E-06 ± 4.24E-08	4.65 ± 0.76	3.29 ± 0.31	2.78 ± 0.15
bn131216081	3.28E-06 ± 2.17E-08	5.62 ± 0.59	5.10 ± 0.29	4.50 ± 0.14
bn131217108	3.53E-07 ± 2.77E-08	3.82 ± 0.76	3.00 ± 0.35	1.64 ± 0.13
bn131217183	2.89E-06 ± 4.07E-08	3.96 ± 0.56	3.31 ± 0.28	2.34 ± 0.12
bn131217506	2.89E-06 ± 4.07E-08	3.96 ± 0.56	3.31 ± 0.28	2.34 ± 0.12
bn131229277	1.29E-05 ± 3.11E-08	19.49 ± 1.21	16.63 ± 0.56	13.86 ± 0.26
bn131230529	3.24E-07 ± 1.91E-08	2.11 ± 0.72	1.46 ± 0.35	0.97 ± 0.16

Table 8—Continued

Trigger ID	Fluence (erg cm <sup>-2</sup> )	PF64 (ph cm <sup>-2</sup> s <sup>-1</sup> )	PF256 (ph cm <sup>-2</sup> s <sup>-1</sup> )	PF1024 (ph cm <sup>-2</sup> s <sup>-1</sup> )
bn131230808	2.21E-06 ± 2.03E-08	1.55 ± 0.40	1.01 ± 0.16	0.75 ± 0.08
bn131231198	7.96E-05 ± 6.76E-08	39.73 ± 1.51	38.05 ± 0.75	36.31 ± 0.37
bn140102887	1.08E-05 ± 1.19E-08	30.97 ± 1.10	28.98 ± 0.54	25.03 ± 0.25
bn140104731	1.59E-05 ± 3.22E-08	2.92 ± 0.47	2.63 ± 0.22	2.32 ± 0.11
bn140105065	3.49E-07 ± 9.26E-09	4.47 ± 0.64	3.28 ± 0.30	1.64 ± 0.11
bn140105748	7.15E-08 ± 1.15E-08	1.18 ± 0.26	0.80 ± 0.12	0.57 ± 0.06
bn140106345	1.34E-06 ± 4.60E-08	1.84 ± 0.55	1.09 ± 0.20	0.86 ± 0.10
bn140108721	9.95E-06 ± 1.23E-07	5.42 ± 0.53	4.68 ± 0.27	4.42 ± 0.14
bn140109771	6.51E-08 ± 1.65E-08	3.04 ± 0.97	1.22 ± 0.29	0.54 ± 0.10
bn140109877	7.93E-08 ± 1.34E-08	0.26 ± 0.35	0.14 ± 0.11	0.06 ± 0.04
bn140110263	2.44E-06 ± 2.52E-08	2.76 ± 0.57	2.09 ± 0.18	1.81 ± 0.10
bn140110411	2.16E-08 ± 2.89E-09	0.74 ± 0.26	0.35 ± 0.11	0.16 ± 0.05
bn140110814	4.74E-06 ± 8.01E-08	4.15 ± 1.09	2.11 ± 0.40	1.94 ± 0.18
bn140112060	9.08E-07 ± 2.22E-08	1.37 ± 0.37	1.06 ± 0.17	0.80 ± 0.08
bn140113183	1.36E-06 ± 2.55E-08	0.79 ± 0.23	0.70 ± 0.10	0.46 ± 0.05
bn140113624	2.80E-07 ± 1.99E-08	1.41 ± 0.44	0.87 ± 0.17	0.63 ± 0.07
bn140115863	2.31E-06 ± 2.04E-08	3.54 ± 0.62	3.31 ± 0.27	2.07 ± 0.11
bn140115899	1.42E-06 ± 2.91E-08	3.12 ± 0.67	2.42 ± 0.30	2.16 ± 0.15
bn140118064	1.81E-06 ± 2.46E-08	1.14 ± 0.45	0.56 ± 0.19	0.41 ± 0.08
bn140122597	5.94E-07 ± 3.63E-08	3.02 ± 0.69	2.00 ± 0.29	1.41 ± 0.13
bn140124527	1.05E-05 ± 7.55E-08	2.93 ± 0.56	2.30 ± 0.23	1.88 ± 0.10
bn140126815	3.11E-06 ± 2.07E-08	2.15 ± 0.48	1.41 ± 0.20	1.24 ± 0.10
bn140129499	1.19E-07 ± 8.63E-09	3.96 ± 0.71	2.41 ± 0.29	0.64 ± 0.09
bn140204547	1.30E-06 ± 2.21E-08	1.23 ± 0.40	0.70 ± 0.16	0.55 ± 0.08
bn140206275	5.82E-05 ± 1.46E-07	22.04 ± 0.91	21.49 ± 0.46	21.00 ± 0.23
bn140206304	9.99E-06 ± 5.05E-08	14.07 ± 1.21	12.70 ± 0.58	9.00 ± 0.25
bn140209313	5.73E-06 ± 2.81E-08	66.72 ± 2.18	58.87 ± 1.03	27.09 ± 0.36
bn140211091	4.18E-07 ± 1.65E-08	1.63 ± 0.45	1.20 ± 0.18	0.97 ± 0.09
bn140213807	1.11E-05 ± 3.58E-08	12.03 ± 0.78	11.35 ± 0.38	10.10 ± 0.18
bn140216331	2.84E-07 ± 3.31E-08	1.32 ± 0.33	1.05 ± 0.17	0.89 ± 0.08
bn140217043	1.25E-06 ± 2.03E-08	2.29 ± 0.55	1.62 ± 0.25	1.14 ± 0.10
bn140218427	3.18E-06 ± 4.14E-08	1.44 ± 0.37	0.74 ± 0.17	0.55 ± 0.06

Table 8—Continued

Trigger ID	Fluence (erg cm <sup>-2</sup> )	PF64 (ph cm <sup>-2</sup> s <sup>-1</sup> )	PF256 (ph cm <sup>-2</sup> s <sup>-1</sup> )	PF1024 (ph cm <sup>-2</sup> s <sup>-1</sup> )
bn140219319	1.61E-06 ± 1.47E-08	2.61 ± 0.52	2.13 ± 0.22	1.76 ± 0.10
bn140219824	1.48E-06 ± 2.20E-08	1.37 ± 0.46	1.02 ± 0.21	0.70 ± 0.09
bn140223495	1.17E-06 ± 1.92E-08	1.41 ± 0.39	1.09 ± 0.18	0.83 ± 0.08
bn140224382	3.81E-07 ± 2.15E-08	4.05 ± 0.57	2.68 ± 0.26	1.66 ± 0.12
bn140224788	1.47E-06 ± 2.98E-08	1.76 ± 0.40	1.51 ± 0.20	1.25 ± 0.09
bn140227738	4.29E-07 ± 4.95E-08	1.22 ± 0.55	0.88 ± 0.25	0.67 ± 0.11
bn140302342	3.81E-06 ± 2.57E-08	2.75 ± 0.58	2.35 ± 0.27	1.64 ± 0.11
bn140304557	1.45E-06 ± 1.74E-08	1.63 ± 0.43	1.20 ± 0.18	0.99 ± 0.09
bn140304849	4.77E-06 ± 3.40E-08	2.65 ± 0.59	2.12 ± 0.25	1.48 ± 0.12
bn140306146	2.09E-05 ± 4.86E-08	7.99 ± 0.69	6.38 ± 0.31	5.62 ± 0.13
bn140308710	3.55E-06 ± 2.27E-08	12.32 ± 0.99	11.66 ± 0.46	7.82 ± 0.19
bn140311453	1.34E-06 ± 2.02E-08	1.71 ± 0.35	1.31 ± 0.17	1.12 ± 0.09
bn140311618	2.07E-06 ± 6.44E-08	4.02 ± 0.66	3.39 ± 0.29	2.84 ± 0.14
bn140311885	4.00E-06 ± 3.42E-08	2.39 ± 0.62	1.34 ± 0.26	0.94 ± 0.11
bn140319964	4.12E-06 ± 1.81E-08	4.62 ± 0.57	4.15 ± 0.28	2.52 ± 0.12
bn140320092	4.85E-08 ± 4.26E-09	0.62 ± 0.18	0.39 ± 0.09	0.22 ± 0.04
bn140322424	8.43E-07 ± 1.50E-08	1.59 ± 0.44	1.38 ± 0.21	1.03 ± 0.10
bn140323433	1.81E-05 ± 1.08E-07	5.79 ± 0.55	5.25 ± 0.27	4.89 ± 0.14
bn140327065	4.97E-07 ± 2.17E-08	1.63 ± 0.40	1.15 ± 0.18	0.95 ± 0.10
bn140328560	4.05E-07 ± 6.57E-09	1.63 ± 0.39	1.10 ± 0.18	0.82 ± 0.09
bn140329272	1.07E-07 ± 4.99E-09	4.44 ± 0.53	2.30 ± 0.21	0.57 ± 0.07
bn140329295	3.62E-05 ± 1.93E-08	62.55 ± 2.30	54.10 ± 1.06	47.16 ± 0.50
bn140330180	3.08E-06 ± 4.92E-08	3.51 ± 0.62	2.63 ± 0.25	2.33 ± 0.12
bn140402007	1.53E-07 ± 1.54E-08	3.27 ± 0.49	2.26 ± 0.23	0.74 ± 0.09
bn140404030	1.15E-06 ± 3.91E-08	1.07 ± 0.44	0.86 ± 0.20	0.63 ± 0.08
bn140404171	4.53E-06 ± 1.21E-08	2.26 ± 0.39	1.71 ± 0.18	1.46 ± 0.09
bn140404900	2.71E-06 ± 2.04E-08	2.02 ± 0.40	1.66 ± 0.20	1.33 ± 0.09
bn140405033	1.46E-06 ± 1.87E-08	1.87 ± 0.45	1.16 ± 0.19	0.89 ± 0.09
bn140406120	5.84E-06 ± 5.77E-08	4.12 ± 0.71	3.16 ± 0.30	1.82 ± 0.12
bn140406144	1.51E-06 ± 5.23E-08	1.26 ± 0.41	0.69 ± 0.16	0.50 ± 0.08
bn140408553	4.06E-07 ± 2.74E-08	1.39 ± 0.46	0.87 ± 0.17	0.73 ± 0.09
bn140414693	3.61E-06 ± 2.12E-08	3.34 ± 0.44	2.66 ± 0.20	2.17 ± 0.09

Table 8—Continued

Trigger ID	Fluence (erg cm <sup>-2</sup> )	PF64 (ph cm <sup>-2</sup> s <sup>-1</sup> )	PF256 (ph cm <sup>-2</sup> s <sup>-1</sup> )	PF1024 (ph cm <sup>-2</sup> s <sup>-1</sup> )
bn140416060	4.20E-05 ± 1.95E-07	53.74 ± 3.26	49.06 ± 1.56	34.80 ± 0.65
bn140422194	2.21E-06 ± 5.48E-08	1.71 ± 0.45	0.86 ± 0.21	0.63 ± 0.10
bn140423356	1.14E-05 ± 6.80E-08	2.23 ± 0.44	1.72 ± 0.21	1.38 ± 0.10
bn140426515	1.20E-06 ± 1.72E-08	1.44 ± 0.38	0.75 ± 0.18	0.60 ± 0.08
bn140427702	2.74E-07 ± 3.44E-08	1.90 ± 0.74	1.02 ± 0.33	0.61 ± 0.12
bn140428906	3.60E-07 ± 1.09E-08	10.71 ± 1.35	5.43 ± 0.50	1.70 ± 0.14
bn140429975	3.20E-07 ± 1.13E-08	1.24 ± 0.40	0.72 ± 0.20	0.56 ± 0.09
bn140430716	5.50E-06 ± 8.72E-08	7.35 ± 0.97	6.30 ± 0.48	5.43 ± 0.22
bn140501139	9.64E-08 ± 1.07E-08	2.84 ± 0.72	1.76 ± 0.26	0.46 ± 0.10
bn140501497	3.97E-06 ± 2.44E-08	4.91 ± 0.78	4.26 ± 0.38	3.52 ± 0.17
bn140502354	1.14E-06 ± 1.91E-08	1.54 ± 0.36	1.08 ± 0.17	0.74 ± 0.08
bn140506880	3.22E-06 ± 4.86E-08	13.62 ± 1.49	10.31 ± 0.66	6.39 ± 0.28
bn140508128	3.09E-05 ± 6.22E-08	41.40 ± 2.53	39.49 ± 1.24	31.45 ± 0.55
bn140508179	2.02E-06 ± 4.46E-08	2.72 ± 0.98	1.58 ± 0.42	1.23 ± 0.20
bn140508629	1.38E-06 ± 2.49E-08	1.63 ± 0.34	1.17 ± 0.16	0.88 ± 0.07
bn140511095	2.31E-07 ± 1.88E-08	5.32 ± 0.55	3.21 ± 0.22	1.10 ± 0.08
bn140511995	3.72E-06 ± 2.09E-08	3.07 ± 0.62	1.87 ± 0.26	1.43 ± 0.11
bn140512814	1.50E-05 ± 4.45E-08	6.77 ± 0.65	6.24 ± 0.29	4.84 ± 0.12
bn140513724	2.26E-06 ± 3.13E-08	2.85 ± 0.46	2.32 ± 0.22	1.83 ± 0.10
bn140516700	1.61E-06 ± 1.80E-08	1.46 ± 0.40	1.27 ± 0.19	0.70 ± 0.08
bn140516765	3.58E-06 ± 6.58E-08	3.92 ± 0.55	3.20 ± 0.28	2.46 ± 0.13
bn140517813	2.72E-06 ± 2.27E-08	2.58 ± 0.57	1.88 ± 0.21	1.54 ± 0.10
bn140518709	1.86E-07 ± 2.33E-08	2.56 ± 0.90	1.68 ± 0.37	1.02 ± 0.16
bn140519043	2.14E-06 ± 1.96E-08	1.56 ± 0.42	1.09 ± 0.20	0.84 ± 0.09
bn140521184	1.41E-06 ± 2.12E-08	1.22 ± 0.38	0.63 ± 0.14	0.46 ± 0.06
bn140521732	1.50E-06 ± 2.53E-08	3.06 ± 0.58	2.46 ± 0.25	1.91 ± 0.11
bn140523129	2.71E-05 ± 2.47E-08	28.24 ± 1.37	25.31 ± 0.68	20.50 ± 0.28
bn140526449	3.81E-06 ± 1.89E-08	3.93 ± 0.54	1.13 ± 0.20	0.77 ± 0.07
bn140526571	8.00E-08 ± 6.38E-09	2.75 ± 0.61	1.49 ± 0.23	0.36 ± 0.07
bn140528837	1.24E-05 ± 2.62E-08	10.80 ± 0.85	9.34 ± 0.44	7.89 ± 0.20
bn140603476	1.21E-05 ± 1.60E-07	2.15 ± 0.42	1.68 ± 0.22	1.37 ± 0.10
bn140605377	2.57E-07 ± 4.62E-09	5.08 ± 0.66	3.62 ± 0.27	1.11 ± 0.09

Table 8—Continued

Trigger ID	Fluence (erg cm <sup>-2</sup> )	PF64 (ph cm <sup>-2</sup> s <sup>-1</sup> )	PF256 (ph cm <sup>-2</sup> s <sup>-1</sup> )	PF1024 (ph cm <sup>-2</sup> s <sup>-1</sup> )
bn140606133	3.75E-06 ± 2.42E-08	6.06 ± 0.66	5.72 ± 0.29	5.24 ± 0.13
bn140608153	6.76E-06 ± 1.19E-07	3.23 ± 0.92	2.09 ± 0.44	1.64 ± 0.20
bn140608713	1.15E-06 ± 3.40E-08	5.75 ± 1.03	5.16 ± 0.49	3.09 ± 0.18
bn140610487	1.49E-07 ± 1.96E-08	2.33 ± 0.66	1.82 ± 0.24	0.73 ± 0.10
bn140610548	1.05E-05 ± 2.82E-08	5.38 ± 0.64	4.79 ± 0.30	4.34 ± 0.15
bn140610689	6.26E-06 ± 6.04E-08	1.70 ± 0.47	0.87 ± 0.18	0.51 ± 0.07
bn140612294	2.40E-06 ± 4.78E-08	1.69 ± 0.41	1.37 ± 0.20	1.00 ± 0.08
bn140616165	1.85E-07 ± 2.24E-08	6.29 ± 1.01	4.05 ± 0.35	1.31 ± 0.11
bn140619475	4.87E-07 ± 3.41E-08	3.35 ± 0.48	2.64 ± 0.23	1.67 ± 0.14
bn140619490	1.28E-07 ± 2.67E-08	5.95 ± 0.97	2.18 ± 0.38	0.74 ± 0.16
bn140620219	3.43E-06 ± 3.32E-08	2.97 ± 0.63	2.27 ± 0.30	1.88 ± 0.14
bn140621827	2.73E-06 ± 2.86E-08	19.10 ± 1.21	9.36 ± 0.45	4.53 ± 0.17
bn140623224	1.69E-06 ± 2.55E-08	1.35 ± 0.39	0.87 ± 0.16	0.56 ± 0.07
bn140624423	1.53E-07 ± 5.13E-09	9.12 ± 0.62	2.83 ± 0.21	0.71 ± 0.07
bn140626843	6.33E-07 ± 2.08E-08	4.73 ± 0.81	3.10 ± 0.31	2.28 ± 0.15
bn140627401	3.79E-07 ± 2.91E-08	1.36 ± 0.40	0.87 ± 0.17	0.57 ± 0.08
bn140628626	8.26E-07 ± 3.44E-08	1.67 ± 0.53	0.83 ± 0.22	0.47 ± 0.07
bn140628704	9.98E-07 ± 5.34E-08	1.61 ± 0.63	0.90 ± 0.22	0.62 ± 0.10
bn140630505	4.42E-06 ± 4.18E-08	1.88 ± 0.45	1.22 ± 0.19	0.87 ± 0.09
bn140701567	1.61E-06 ± 2.73E-08	2.21 ± 0.62	1.28 ± 0.23	0.98 ± 0.11
bn140701833	1.53E-06 ± 2.80E-08	8.55 ± 0.78	6.75 ± 0.36	4.01 ± 0.14
bn140703026	4.33E-06 ± 2.90E-08	2.66 ± 0.46	2.23 ± 0.21	1.97 ± 0.10
bn140705539	1.71E-06 ± 2.59E-08	1.76 ± 0.45	0.87 ± 0.16	0.80 ± 0.08
bn140706815	1.32E-06 ± 4.12E-08	1.47 ± 0.40	1.05 ± 0.20	0.72 ± 0.09
bn140709051	3.99E-06 ± 8.52E-08	2.44 ± 0.55	1.78 ± 0.26	1.47 ± 0.12
bn140709637	4.21E-06 ± 3.40E-08	1.73 ± 0.40	1.19 ± 0.18	0.87 ± 0.08
bn140710537	2.10E-07 ± 3.82E-09	4.63 ± 0.86	2.68 ± 0.33	0.93 ± 0.13
bn140710901	6.20E-07 ± 2.91E-08	1.34 ± 0.48	0.72 ± 0.23	0.46 ± 0.09
bn140711691	1.55E-06 ± 7.25E-08	1.71 ± 0.49	0.86 ± 0.21	0.45 ± 0.10



