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Supporting Information for

**First ten months of TGF observations by ASIM**

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**Additional Supporting Information – uploaded to zenodo, doi: 10.5281/zenodo.3460503**

1. TGF\_list.txt
2. Fig3AB\_HED\_data.txt
3. Fig3CD\_Fermi\_BGO0\_data.txt
4. Fig3CD\_Fermi\_BGO1\_data.txt
5. Fig4A\_LED\_data.txt
6. Fig4A\_HED\_data.txt
7. Fig5A\_HED\_data.txt
8. Fig5A\_LED\_data.txt
9. Fig5B\_BGO\_data.txt
10. Fig5C\_MMIA\_data.txt
11. Fig5D\_HED\_data.txt
12. Fig5D\_LED\_data.txt
13. Fig6A\_HED\_data.txt
14. Fig6A\_HED\_data.txt
15. Fig6A\_MMIA\_data.txt
16. Fig6B\_HED\_data.txt
17. Fig6B\_HED\_data.txt
18. Fig6B\_MMIA\_data.txt
19. Fig6C\_HED\_data.txt
20. Fig6C\_HED\_data.txt
21. Fig6C\_MMIA\_data.txt
22. Fig7\_data.txt
23. Fig8\_HED\_data.txt

**Data description**

We have uploaded 23 data files as regular text files. These are:

1. A list of 217 TGFs observed by ASIM from June 2, 2018 until March 31, 2019. The file includes information about a) time of observation, b) latitude and longitude of ISS location, c) number of counts, d) total duration, e) t\_90 and t\_50. These data were used to produce Figure 1a&1b and Figure 2a&2b.
2. The HED data obtained on June 21, 2018 with reference time 16:00:52.236923 UT at source. This is absolute time determined by Fermi and WWLLN. The data include relative time to reference time and ADC value for each count. Data are used in Figure 3A&3B.
3. The Fermi\_BGO0 data for the same event as #2. The data include relative time to reference time and ADC value for each count. Data are used in Figure 3C&3D.
4. Same as #3, but for Fermi\_BGO1. Data are used in Figure 3C&3D.
5. The LED data for the TGF on November 02, 2018. Data include time of each count, and in Figure 4A 10µs binning is used.
6. The HED data for the TGF on November 02, 2018, same format and binning as #5 was used in Figure 4A.
7. The HED data used for Figure 5A. Data include time of each count, and 10µs binning is used in the Figure.
8. Same as #7 but for LED.
9. HED data used for Figure 5B. Format is: time, ADC channel, number of DAU (1-4), number of detector in DAU (1-3), type of count: NRM: normal signal, FST: signal on the tail of a previous signal. In the plot FST are separated from NRM with a yellow dot in the middle.
10. MMIA data used for Figure 5B. PHOT1: 337 nm, PHOT2: UV channel, PHOT3: 777 nm. Format is time and digital channel.
11. HED data used for Figure 5D. Format is time and 10µs binning is used in the Figure.
12. Same as #11 but for LED
13. The HED data used for Figure 6A. Data include time of each count, and 10µs binning is used in the Figure.
14. Same as #13 but for LED.
15. MMIA data used for Figure 6A. PHOT1: 337 nm, PHOT2: UV channel, PHOT3: 777 nm. Format is time and digital channel.
16. Same as #13, but for Figure 6B
17. Same as #14, but for Figure 6B
18. Same as #15, but for Figure 6B
19. Same as #13, but for Figure 6C
20. Same as #14, but for Figure 6C
21. Same as #15, but for Figure 6C
22. Data used for Figure 7. The format is: TGF onset, Optical pulse onset, the difference between the two onsets: t\_opt – t\_TGF (in microseconds)
23. The HED data used in Figure 8. Format is: time, ADC channel, number of DAU (1-4), number of detector in DAU (1-3), type of count: NRM: normal signal, FST: signal on the tail of a previous signal. In the plot FST are separated from NRM with a yellow dot in the middle.

See also the manuscript for more information about the data.