

# Deep Space Exploration Society

## SuperSID Observation Results July 2016

**Astronomer and Analyst:** Dr. Richard Russel, [drichrussel@netscape.net](mailto:drichrussel@netscape.net)

**AAVSO Observer ID:** A147

### Observation Methodology:

The observations were made with a standard SuperSID system at Dr. Russel's house at Colorado Springs, CO.

The results were analyzed using SidGrabber software.

The stations observed were NAA and NML.

### SidGrabber Report Results:

Example...

Date	Start	End	Max	Station	Observer
160709	1603	1620	1609	3AA24	A147

## Results Report:

C:\Users\ldrrich\Desktop\2016-July\A147_201607.DAT							
40	160709	1603	1620	1609	1-	3AA24	A147
40	160715	1509	1554	1514	2	3AA24	A147
40	160720	2206	2325	2226	2+	3AA24	A147
40	160721	1538	1554	1547	1-	3AA24	A147
40	160721	2237	2307	2250	1+	3AA24	A147
40	160722	2009	2058	2021	2+	3AA24	A147
40	160722	1945	2108	2031	2+	3ML25	A147
40	160723	1248	1311	1304	1	3AA24	A147
40	160723	1735	1833	1752	2+	3AA24	A147
40	160723	1733	1827	1754	2+	3ML25	A147
40	160724	1259	1315	1304	1-	3AA24	A147
40	160724	1335	1457	1408	2+	3AA24	A147
40	160724	1719	1926	1740	3+	3AA24	A147
40	160724	1329	1430	1408	2+	3ML25	A147
40	160724	1735	1841	1744	2+	3ML25	A147
40	160726	1526	1559	1537	2	3AA24	A147

Save

Report file naming  
☒ by month ☐ by

The Importance is related to the duration of event by:

<u>Duration</u>	<u>Importance</u>
< 19 minutes	1-
19-25	1
26-32	1+
33-45	2
46-85	2+
86-125	3
>125	3+

The Confidence is based on the observer:

<u>Confidence</u>	<u>Definition</u>
Questionable	0
Possible	1
Fair	2
Reasonable	3

Reasonably Definite	4
Definite	5

### **Summary:**

The SuperSID radio telescope at Dr. Russel's house in Colorado Springs, CO has good reception on the NAA broadcast station and only fair reception for the NML broadcast station.

There were numerous C flares this month and one M flare on July 24.

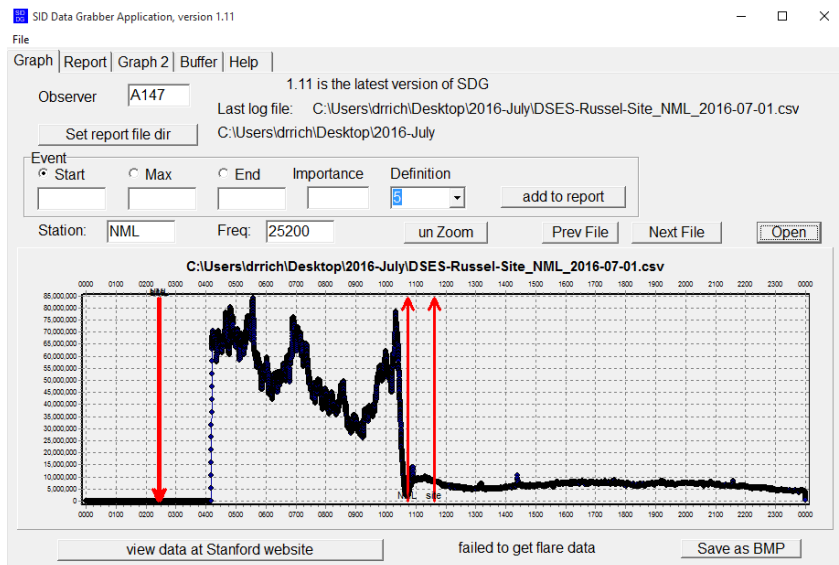
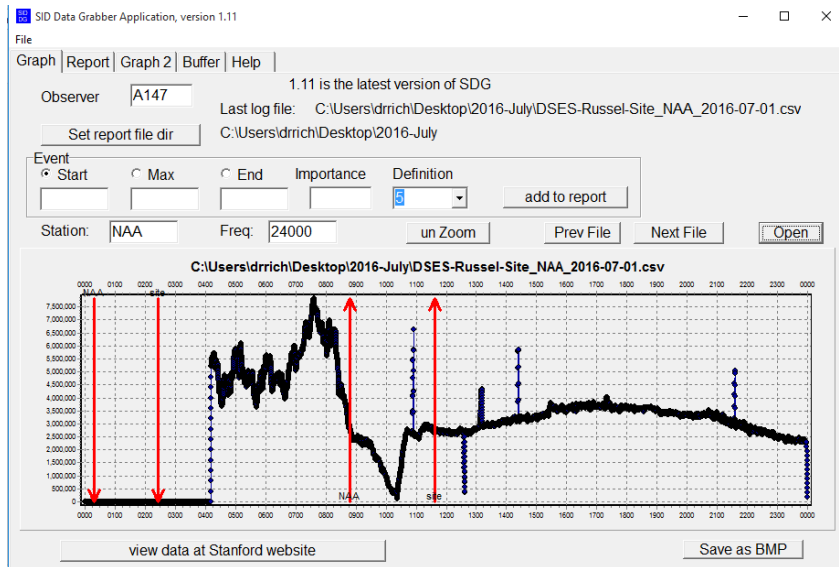
### **Improvements Planned:**

- Move the system to Plishner to limit spurious signals
- Raise the antenna to a high point to attempt to improve gain

## Observations:

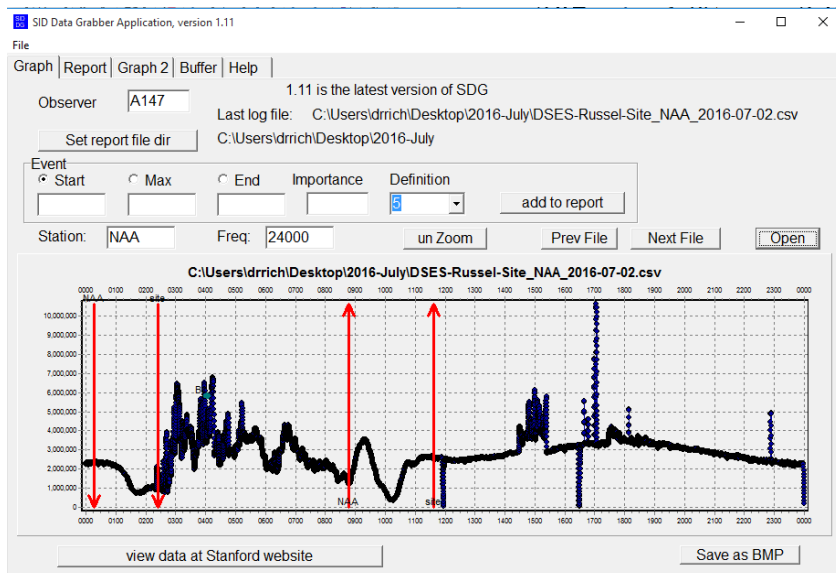
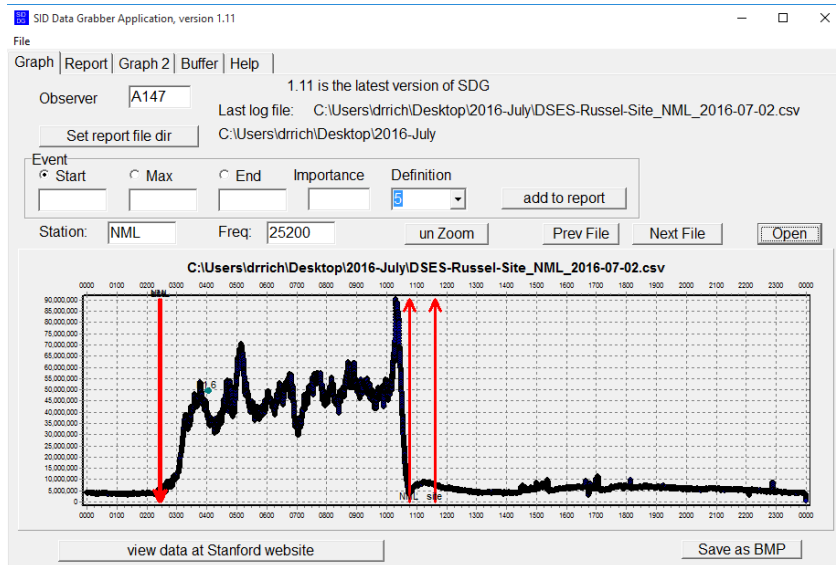
July 1, 2016

Results: No activity noted



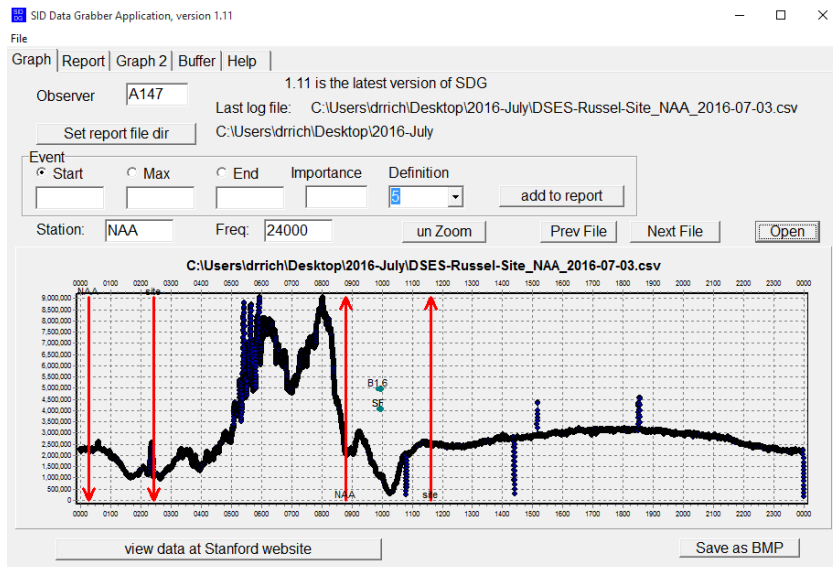
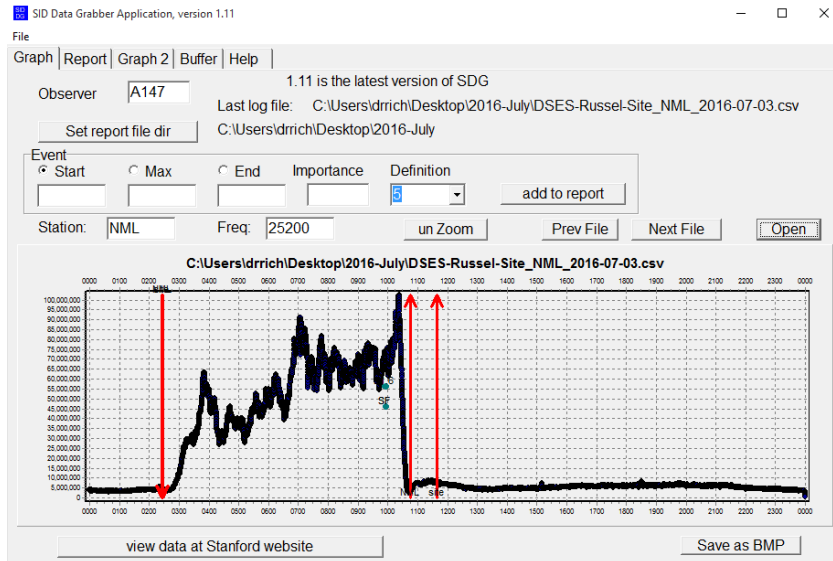
July 2, 2016

Results: No activity noted



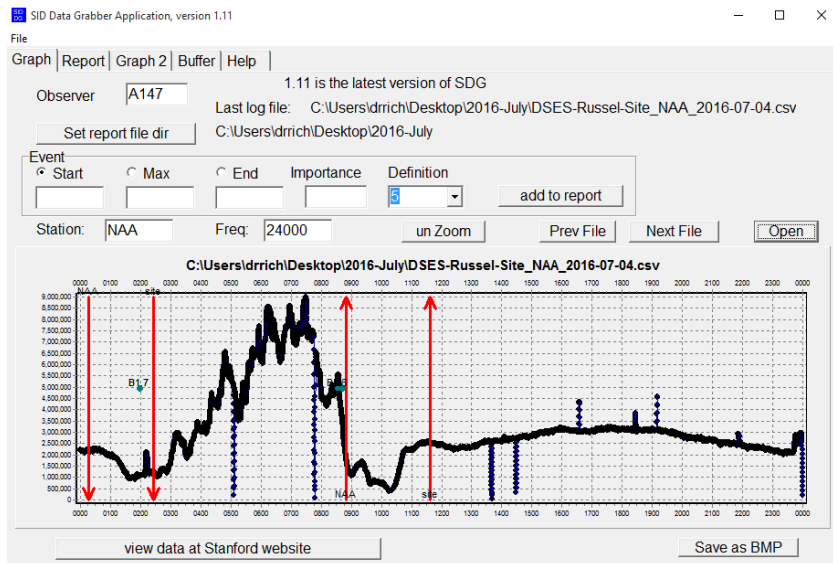
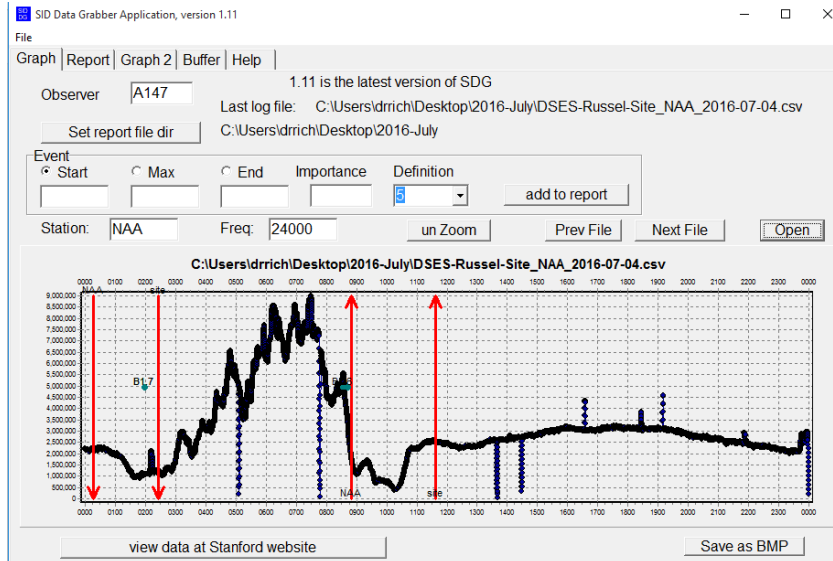
July 3, 2016

Results: No activity noted



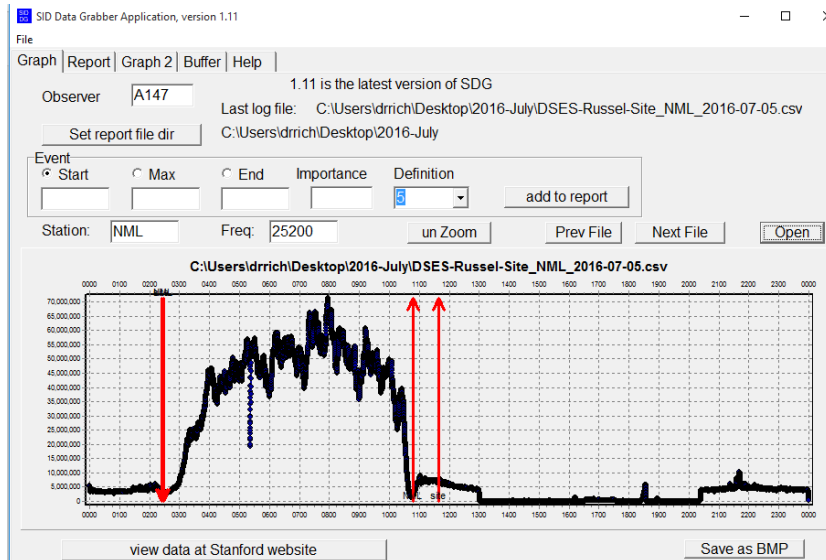
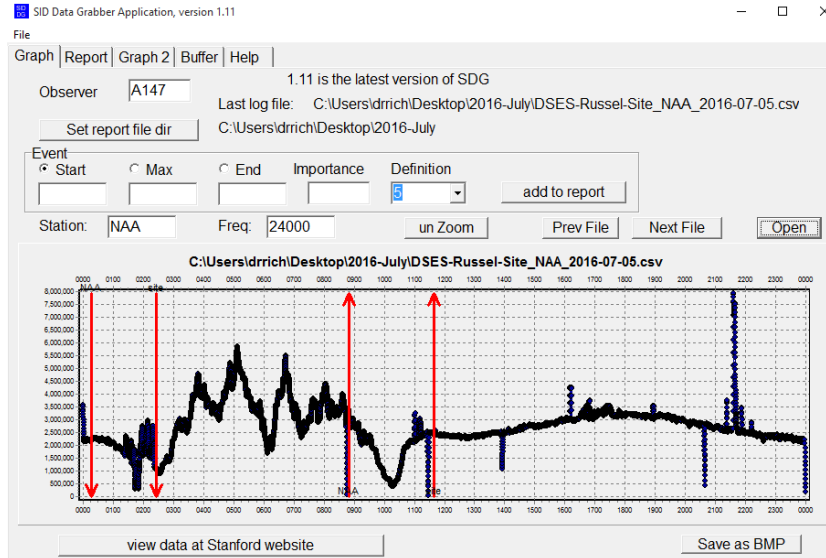
July 4, 2016

Results: No activity noted



July 5, 2016

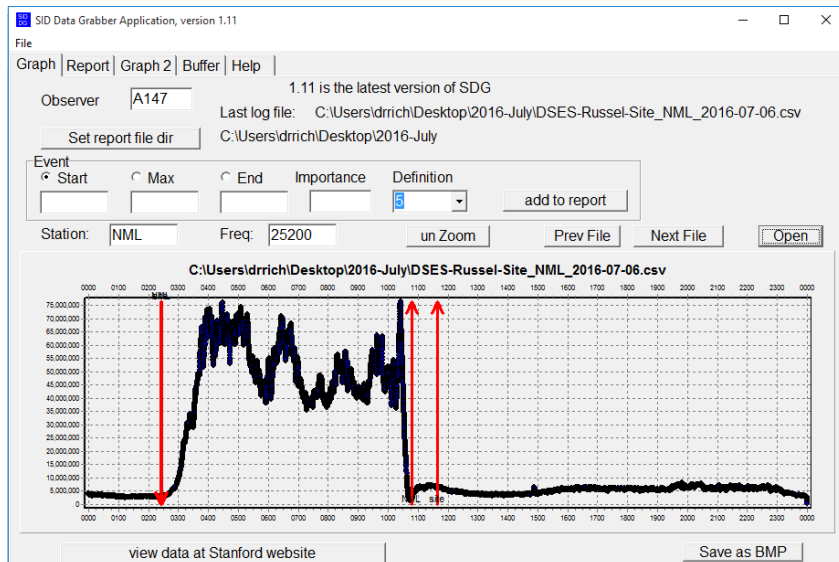
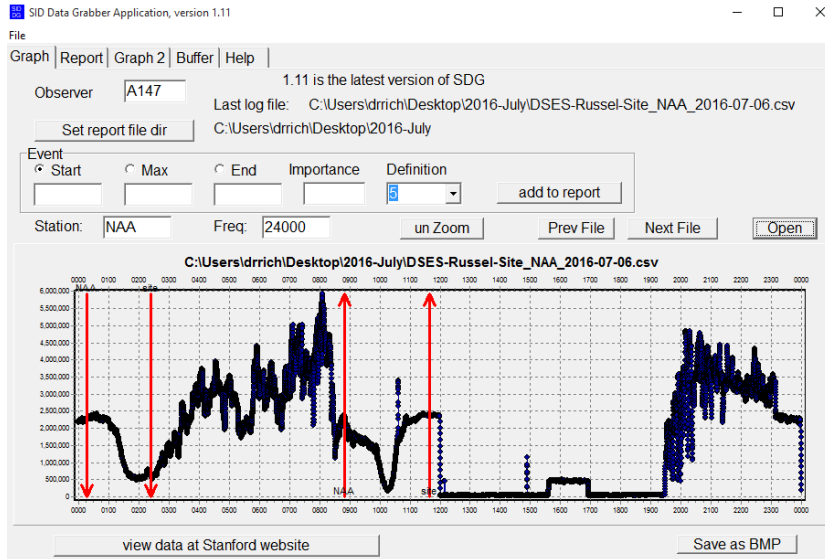
Results: No activity noted





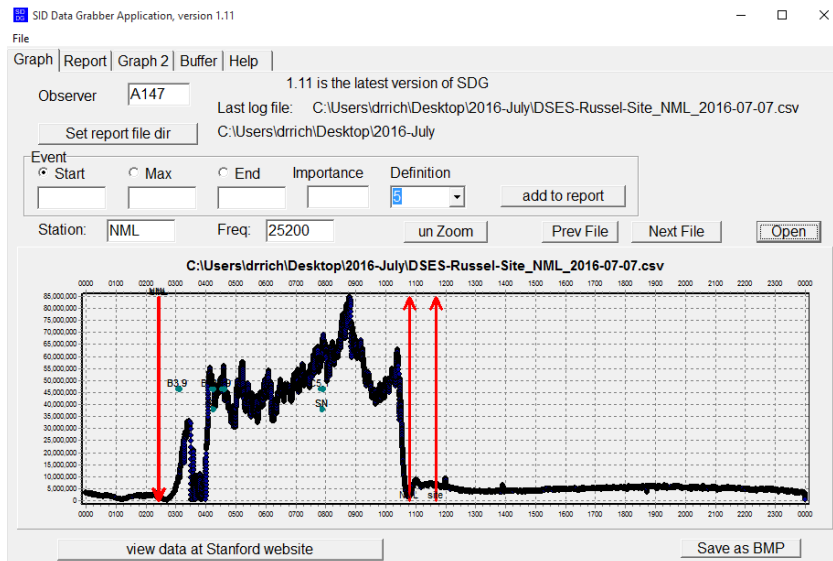
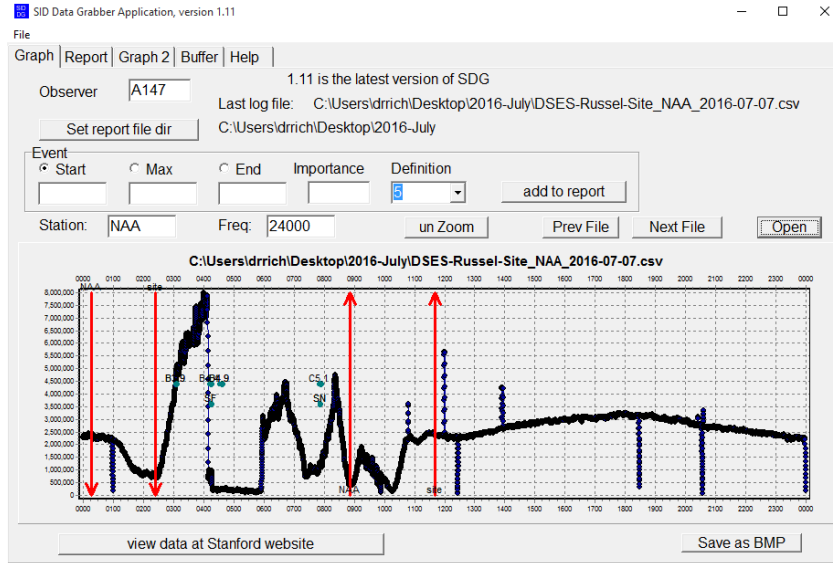
July 6, 2016

Results: No activity noted



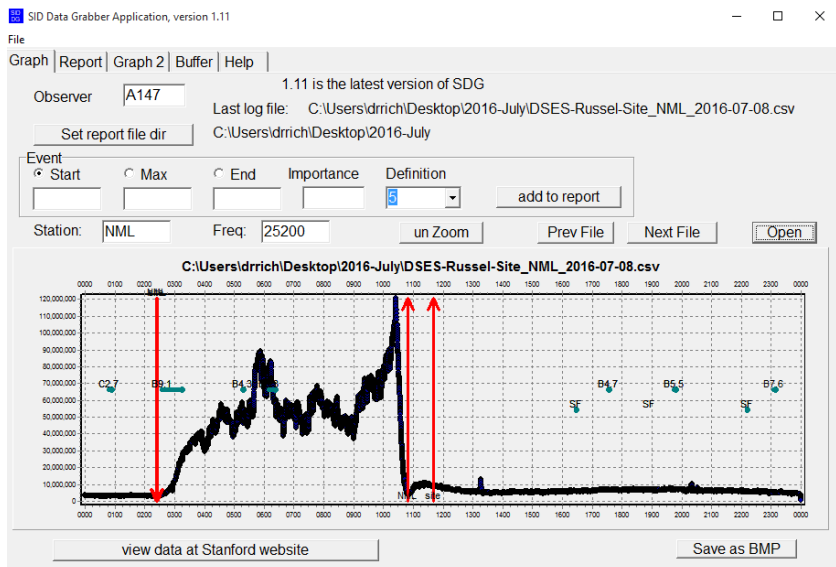
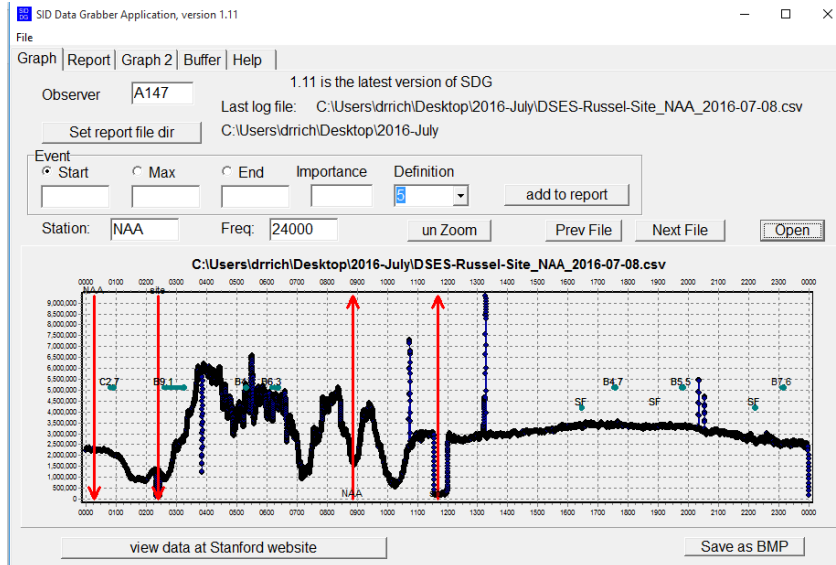
**July 7, 2016**

**Results:** No activity noted



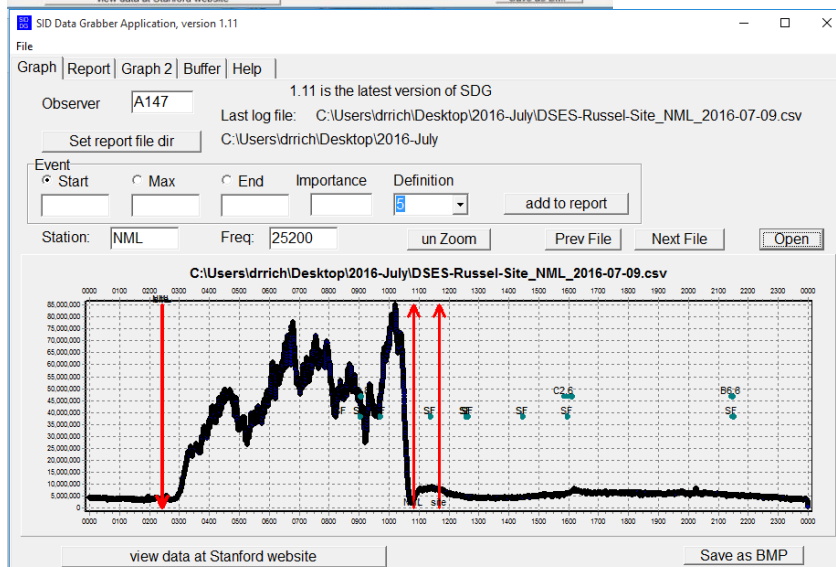
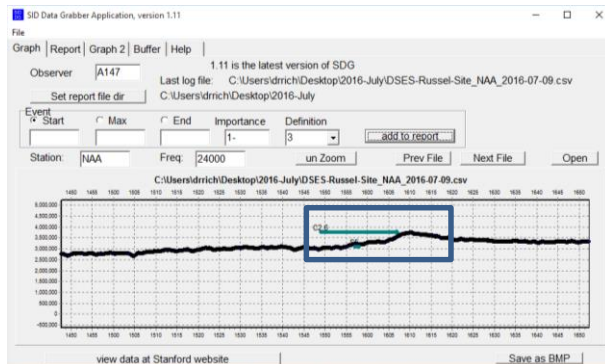
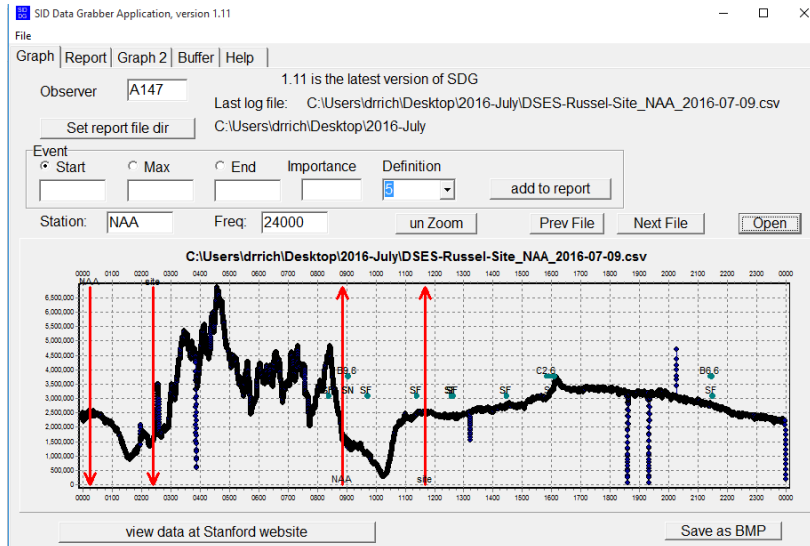
July 8, 2016

**Results:** There were B7.6 flares however no detections were noted.



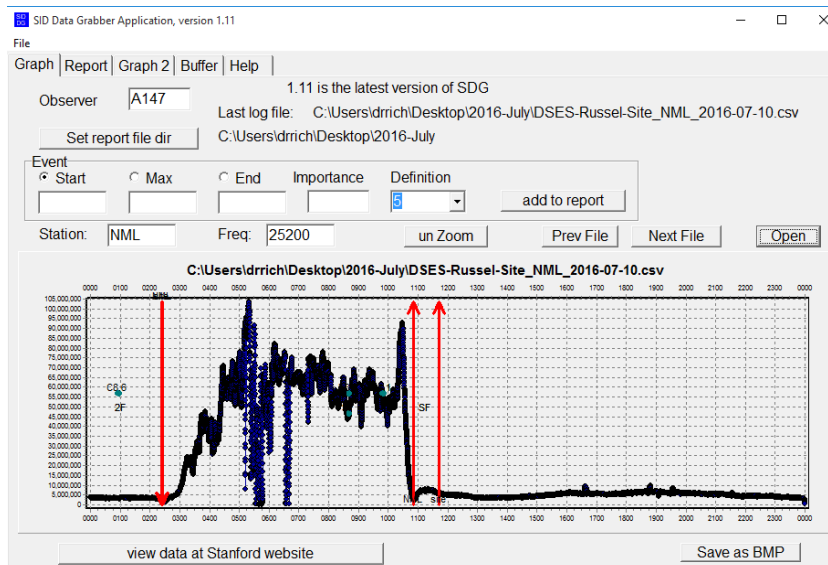
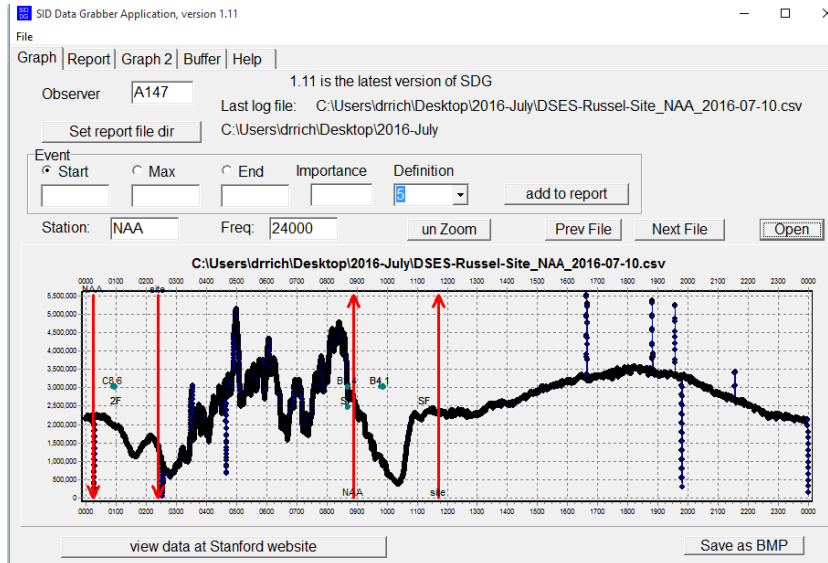
July 9, 2016

## Results: NAA and NML C2.6 Flare detection



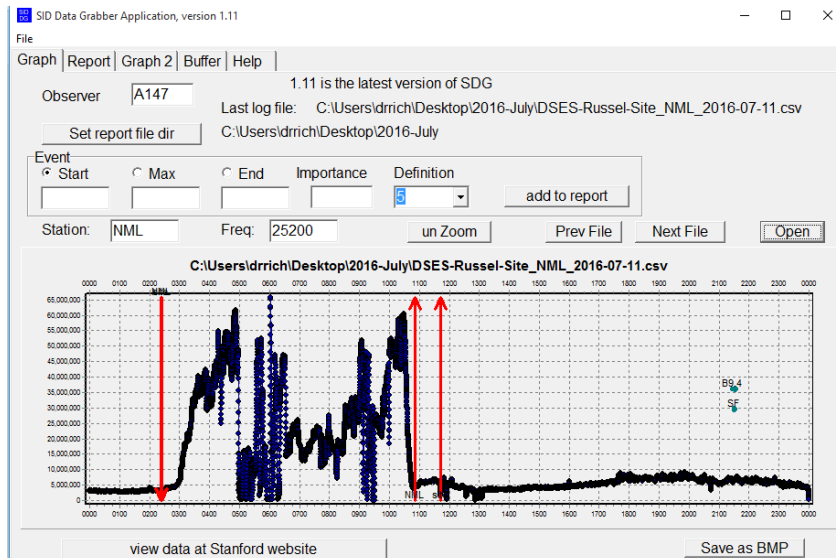
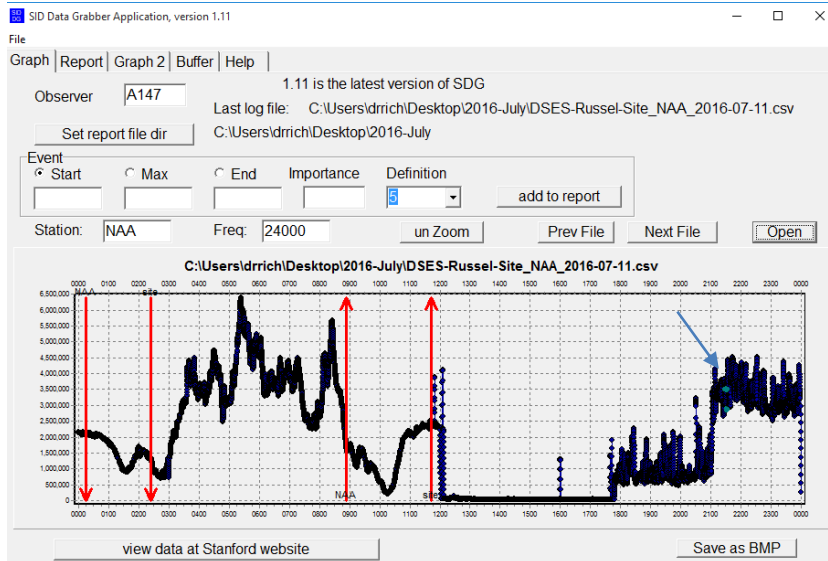
July 10, 2016

Results: No activity noted



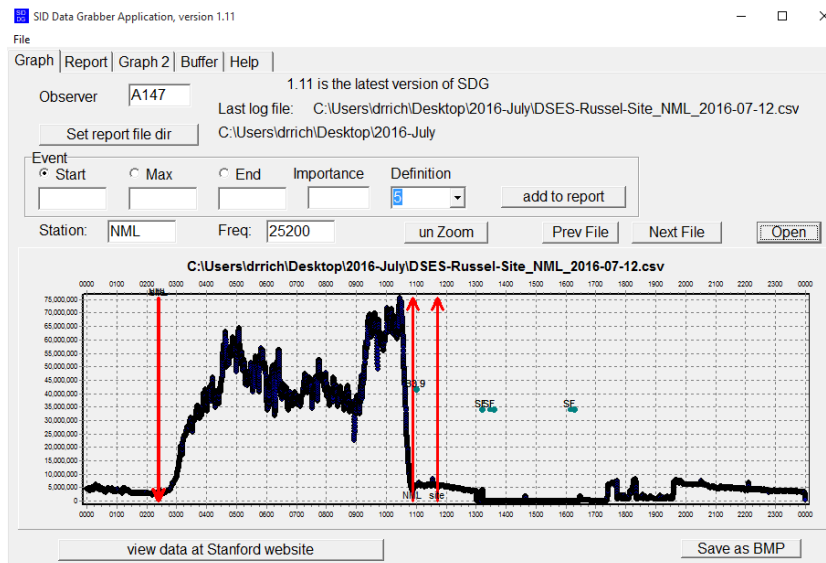
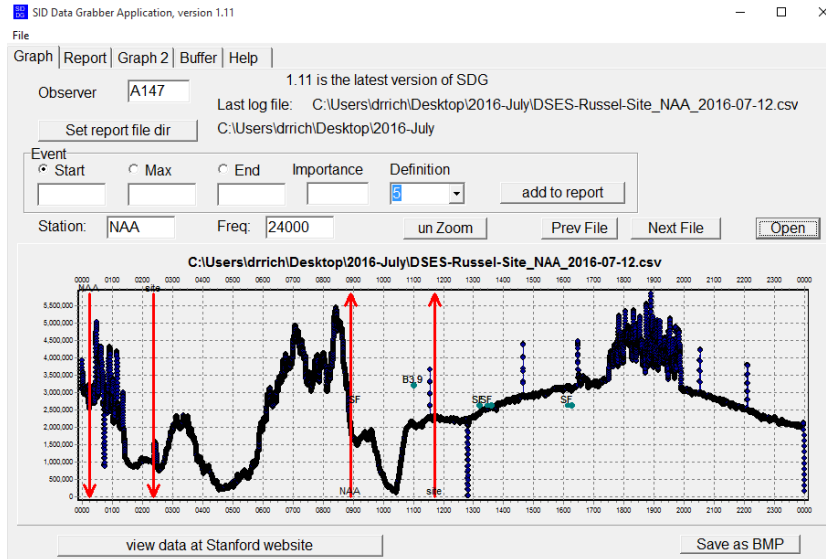
July 11, 2016

**Results:** B9.4 flare at 2130 but NAA had significant interference



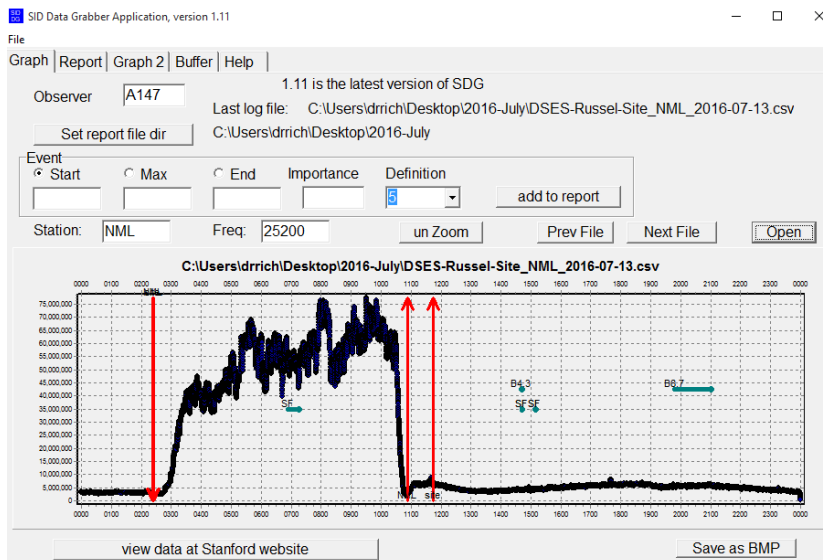
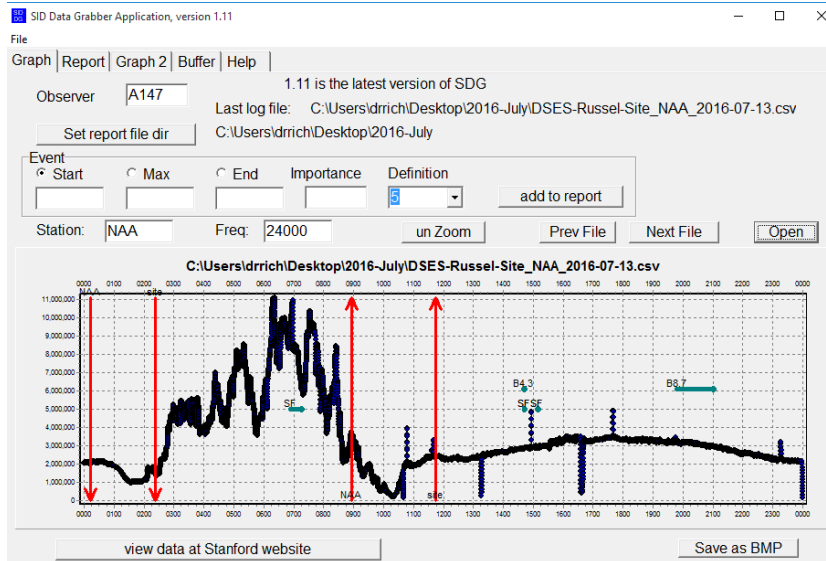
July 12, 2016

**Results:** NAA and NML did not detect flares during this period



July 13, 2016

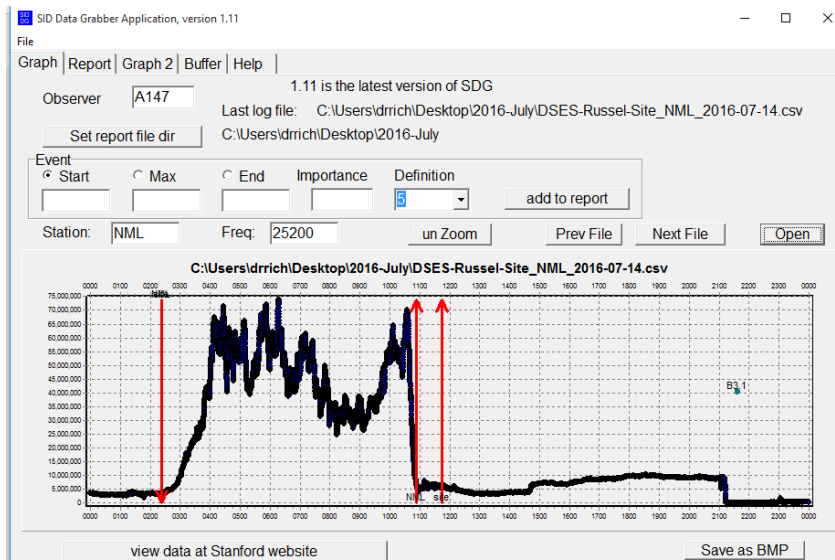
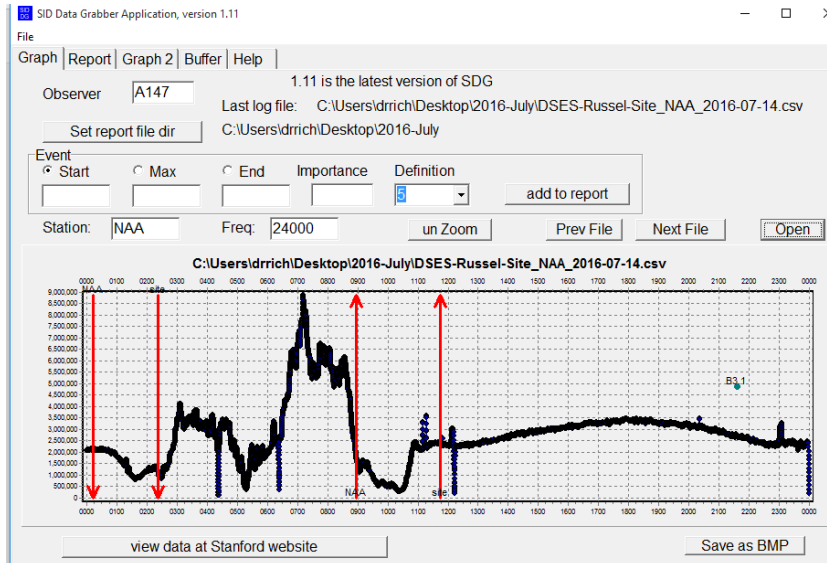
**Results:** NAA and NML did not detect flares during this period





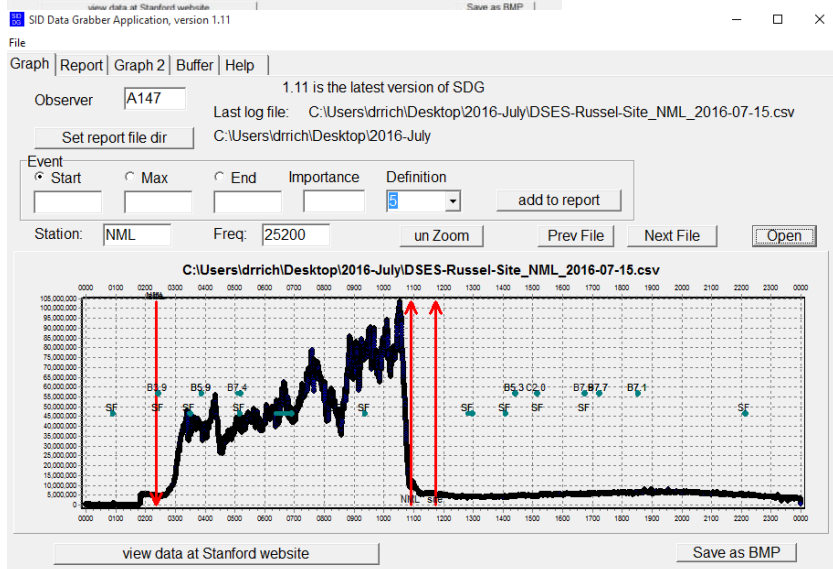
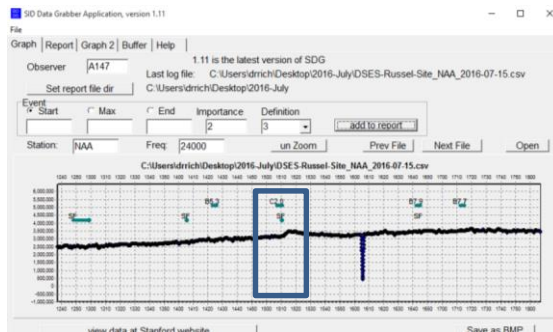
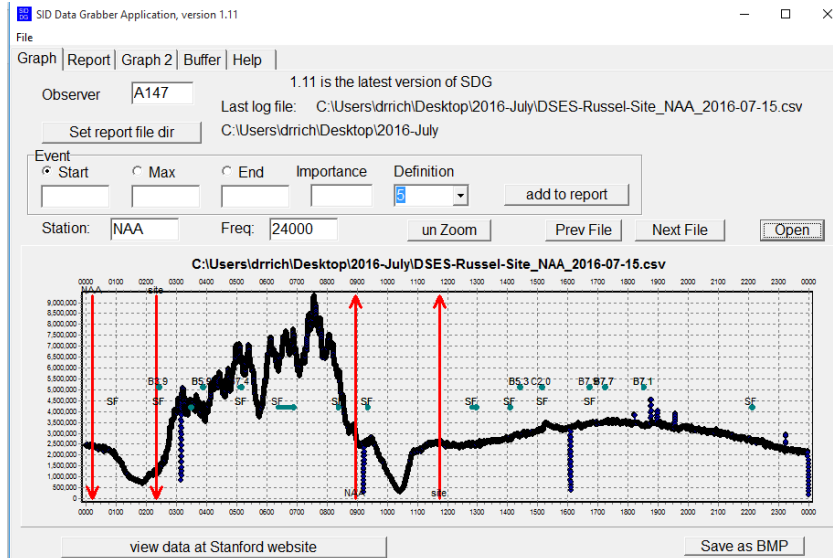
July 14, 2016

**Results:** NAA and NML did not detect flare during this period



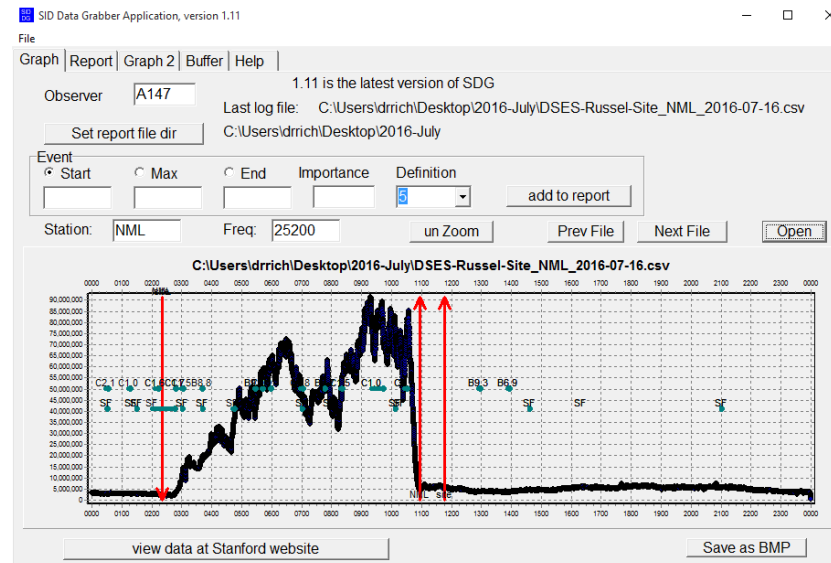
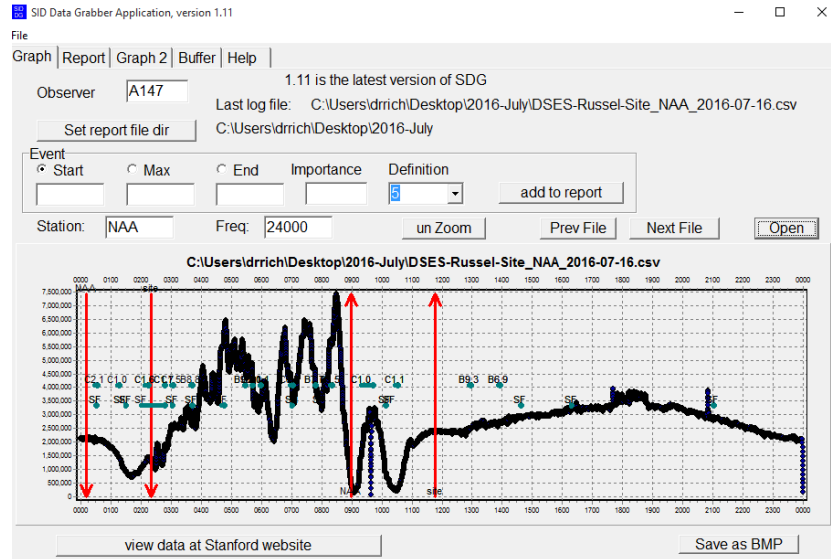
July 15, 2016

Results: C2.0 Flare detected at 1510z by NAA.



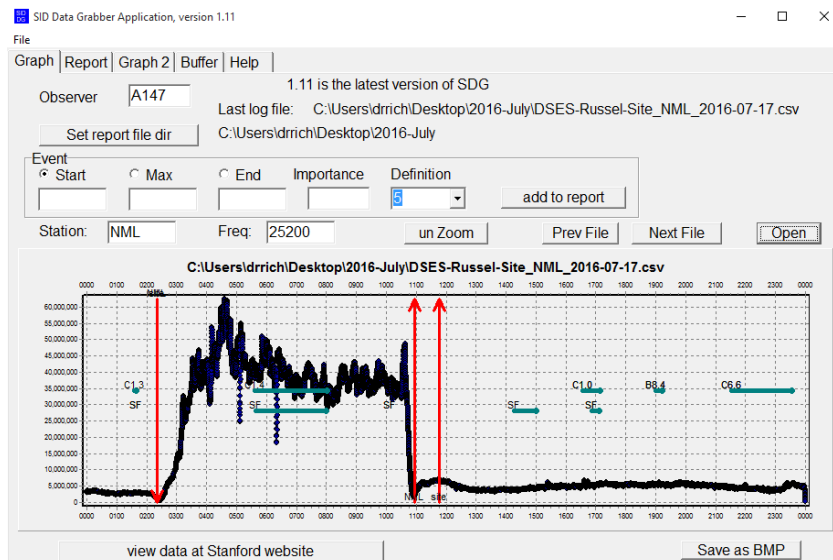
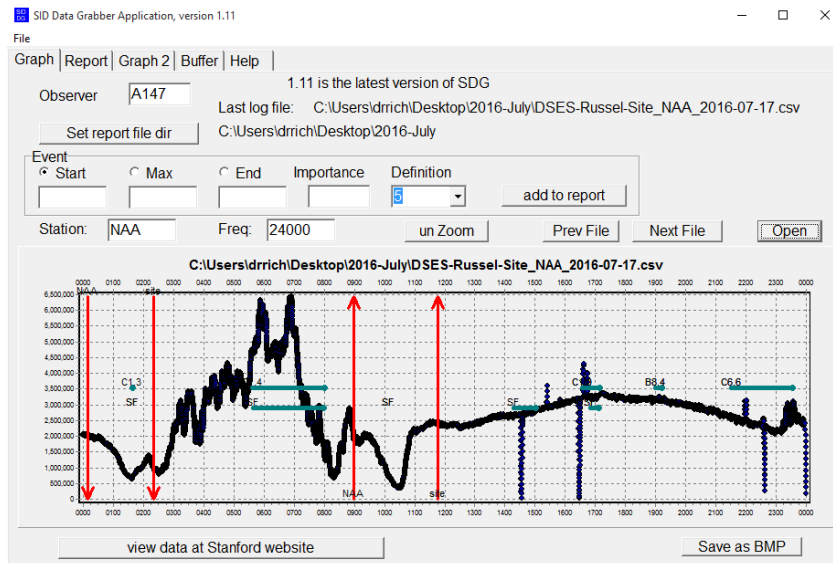
July 16, 2016

**Results:** NAA and NML did not detect flares during this period



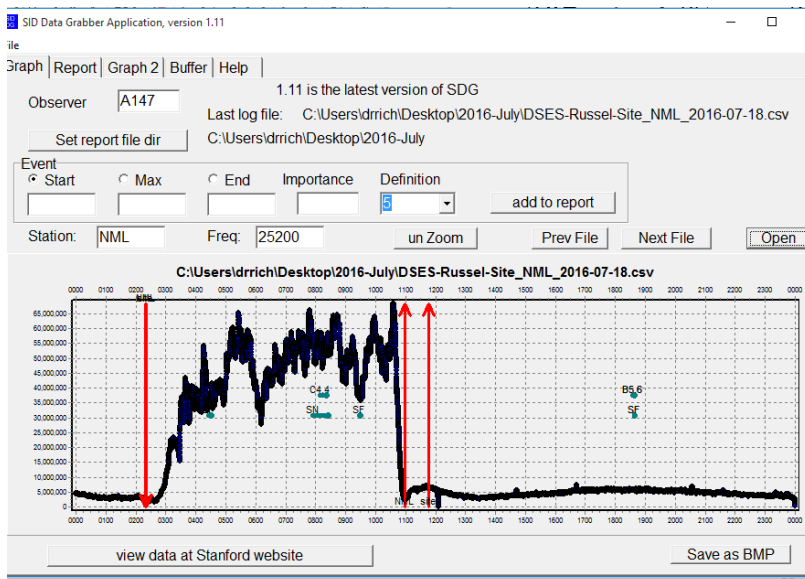
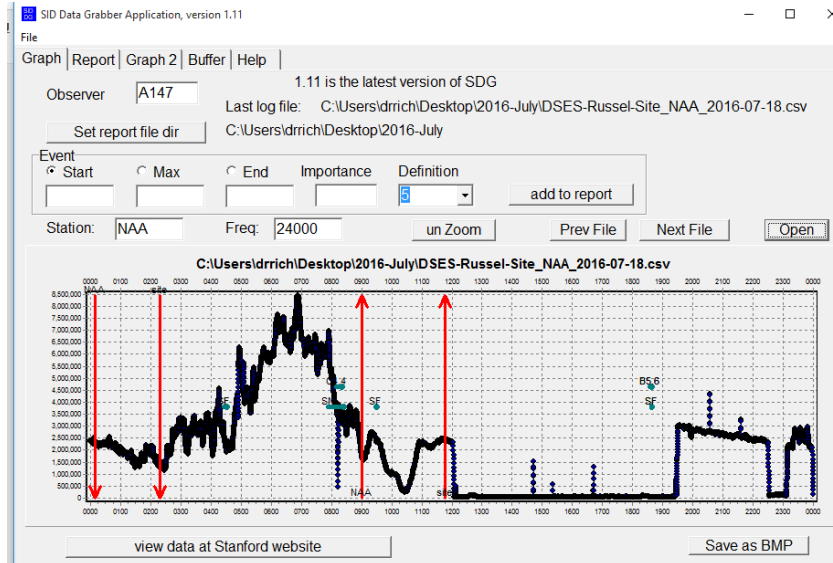
July 17, 2016

**Results:** NAA and NML did not detect the C1.0 or C6.6 flares during this period



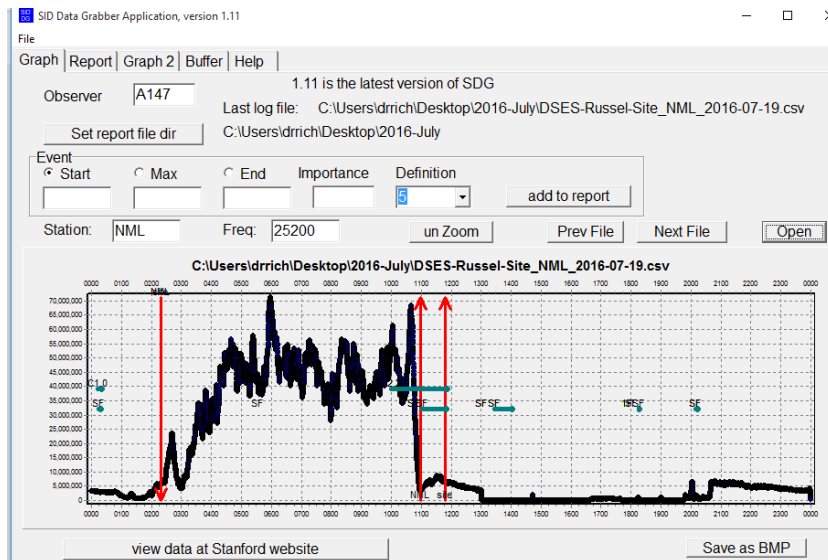
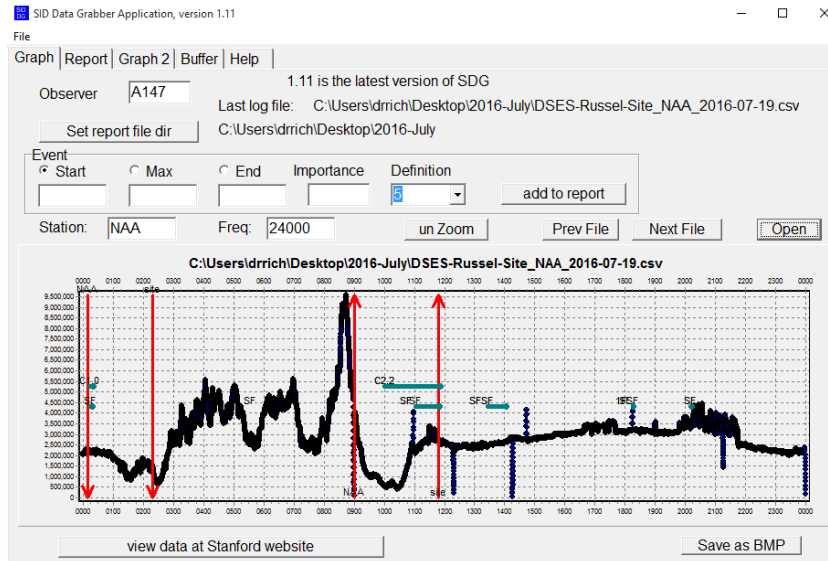
July 18, 2016

**Results:** NAA and NML did not detect the flares during this period



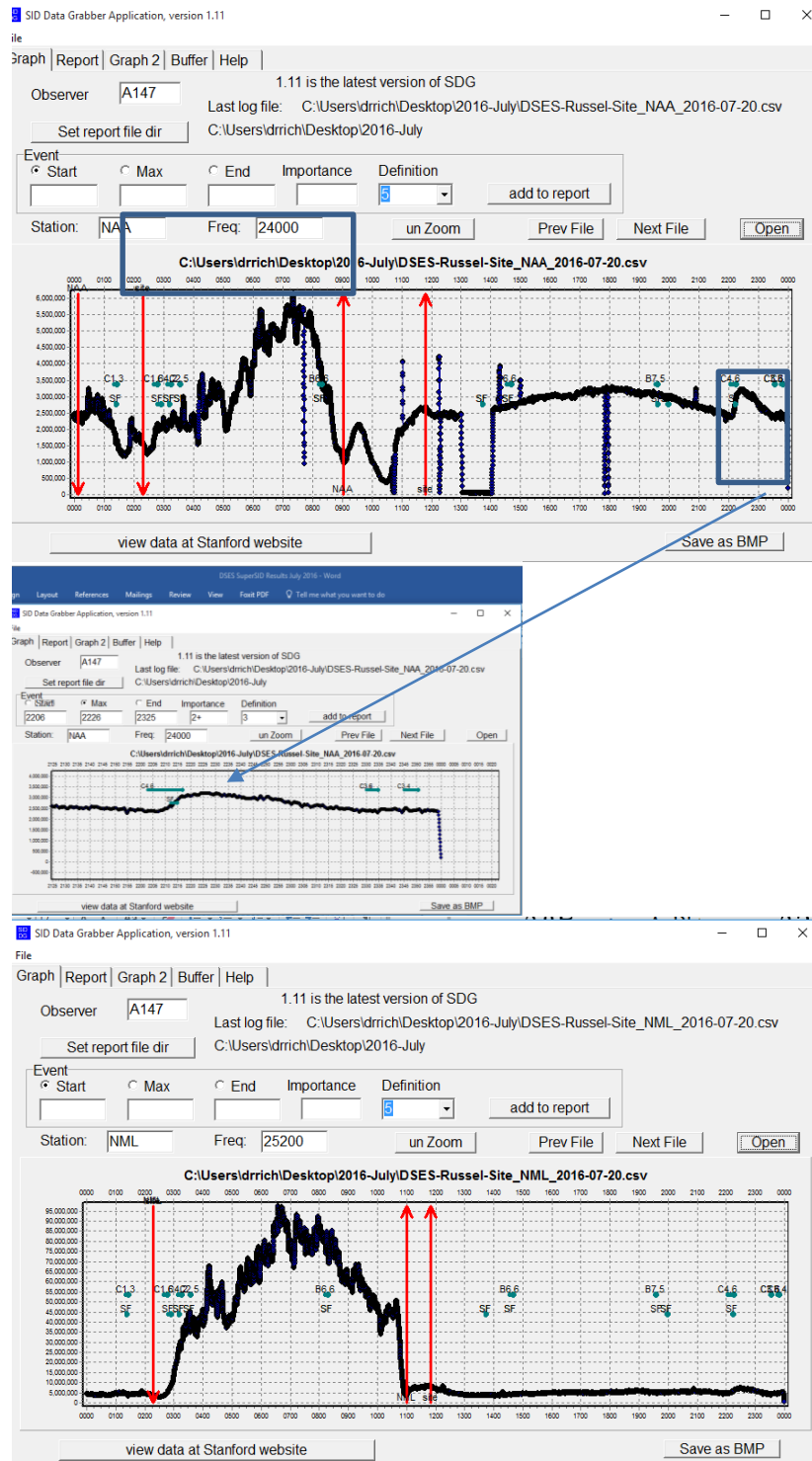
July 19, 2016

**Results:** NAA and NML did not detect the flares during this period

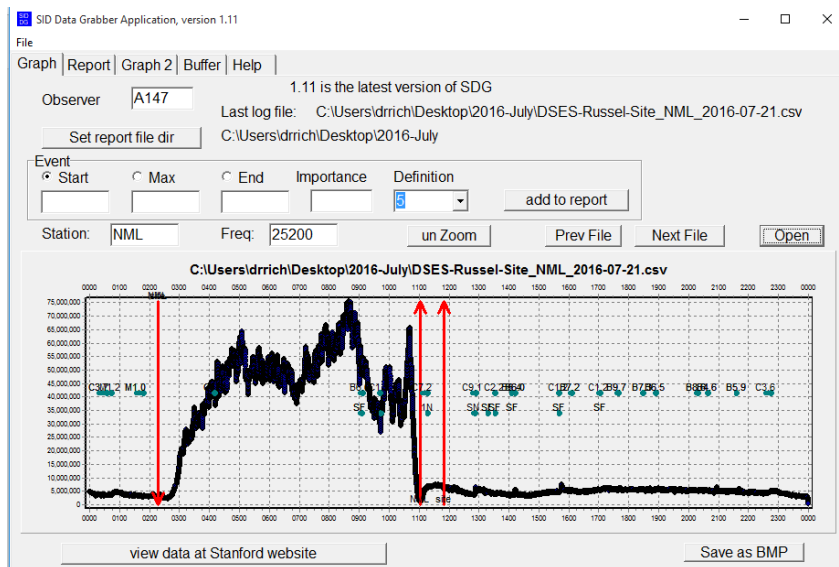
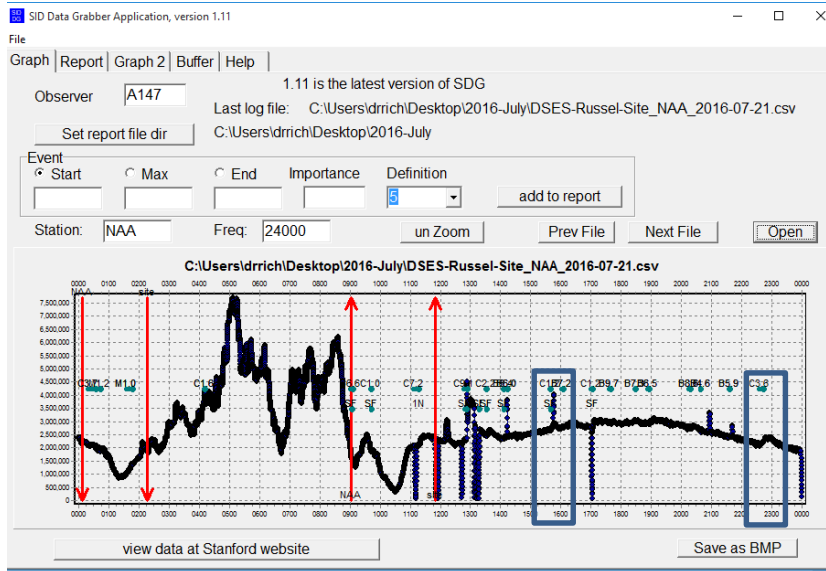


July 20, 2016

**Results:** NAA and NML detected a C4.6 flare at 2210z but did not detect the follow on C3+ flares



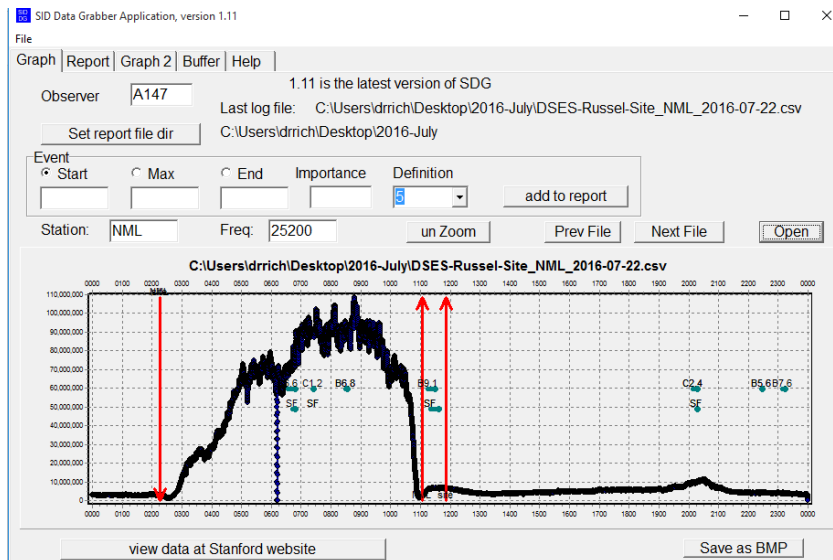
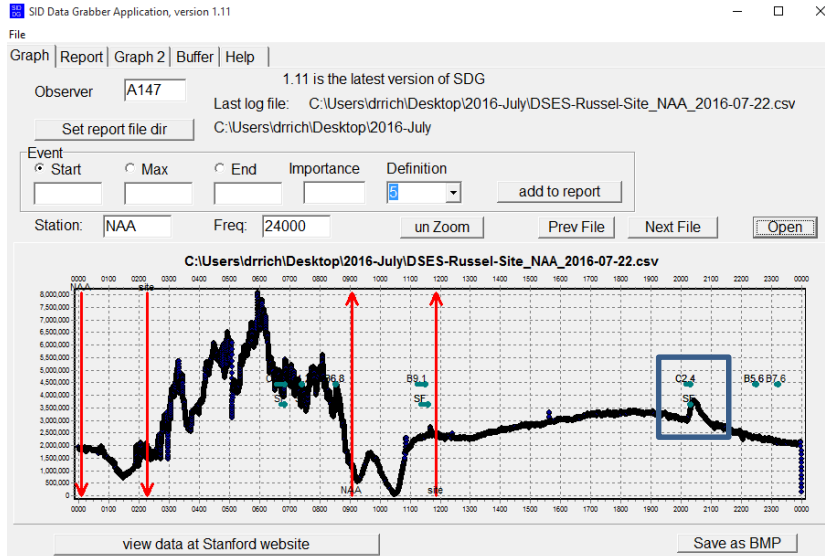
**Results:** 1538 and 2257 C flares detected





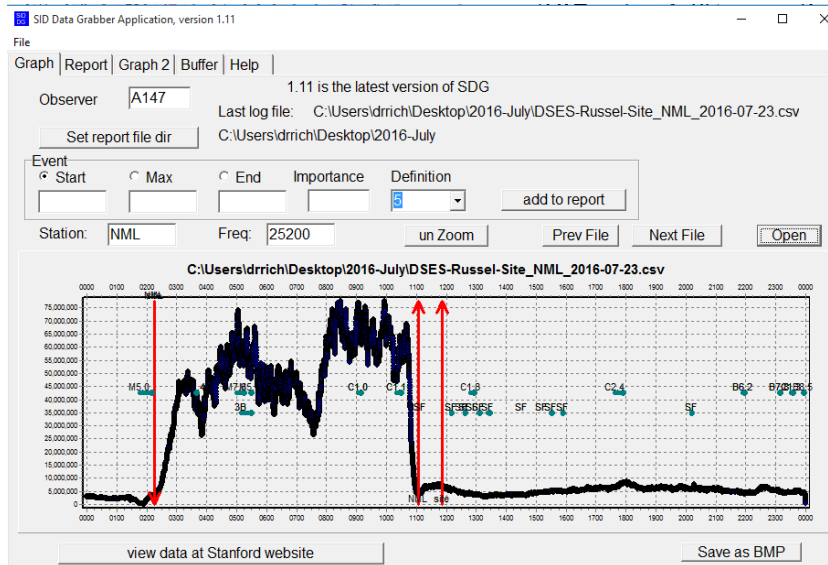
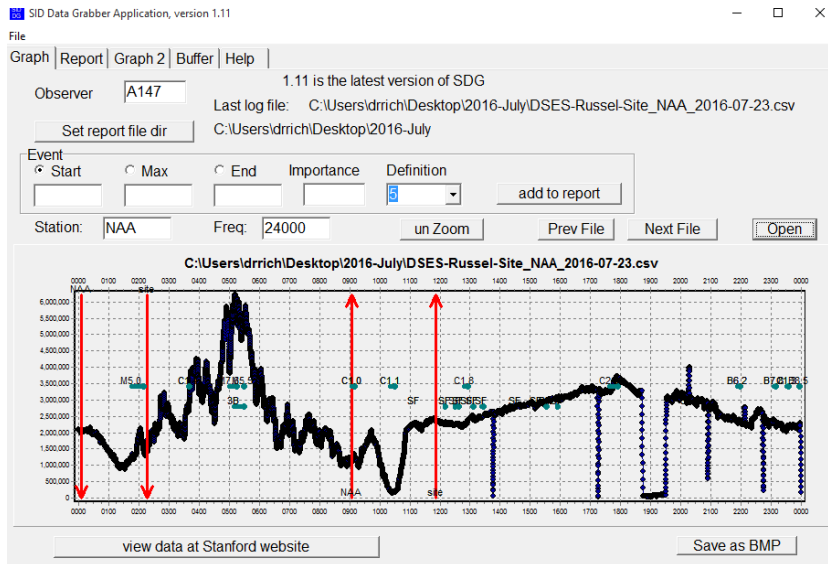
July 22, 2016

**Results:** C2.4 Flare noted around 2200z by both NAA and NML



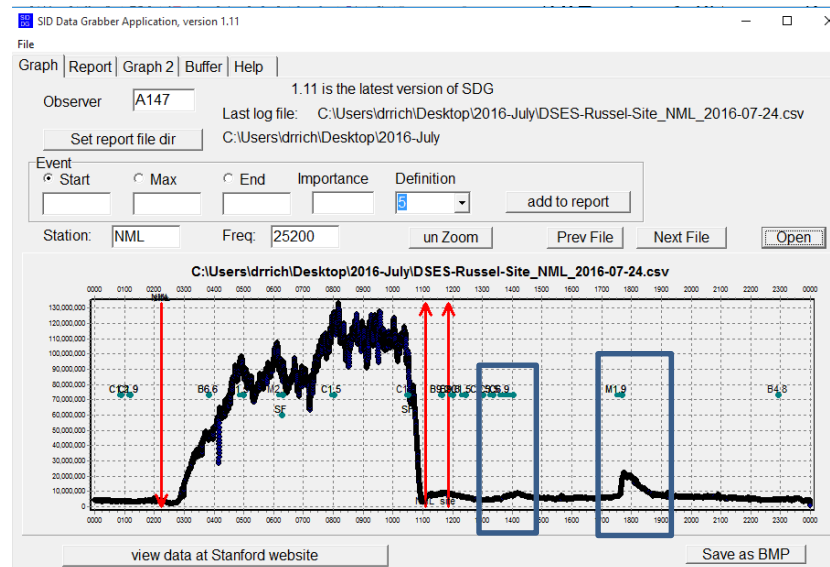
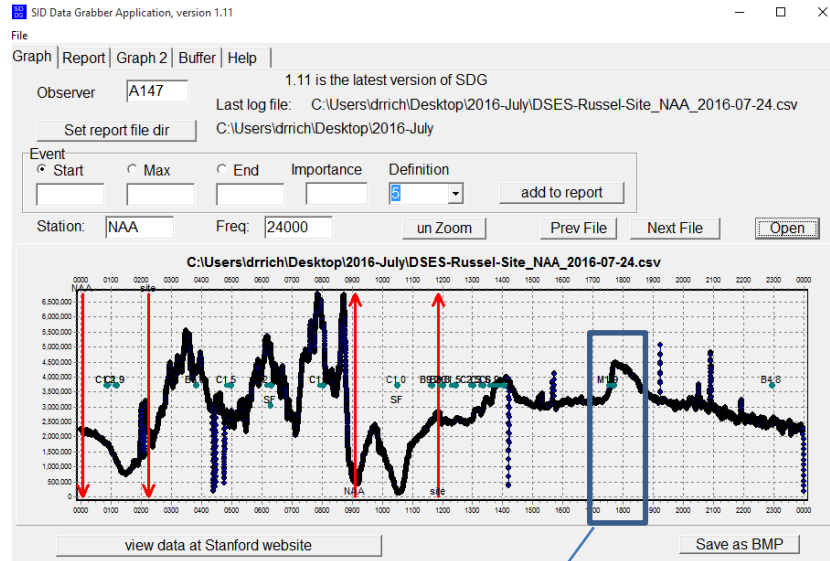
July 23, 2016

**Results:** Multiple C1+ flares noted by both NAA and NML



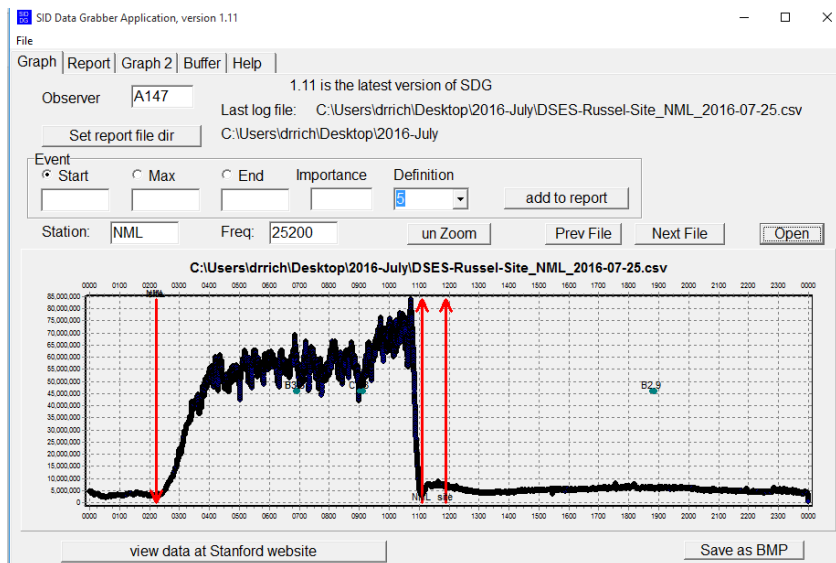
July 24, 2016

Results: M1.9 Flare and some C flares noted by NAA and NML



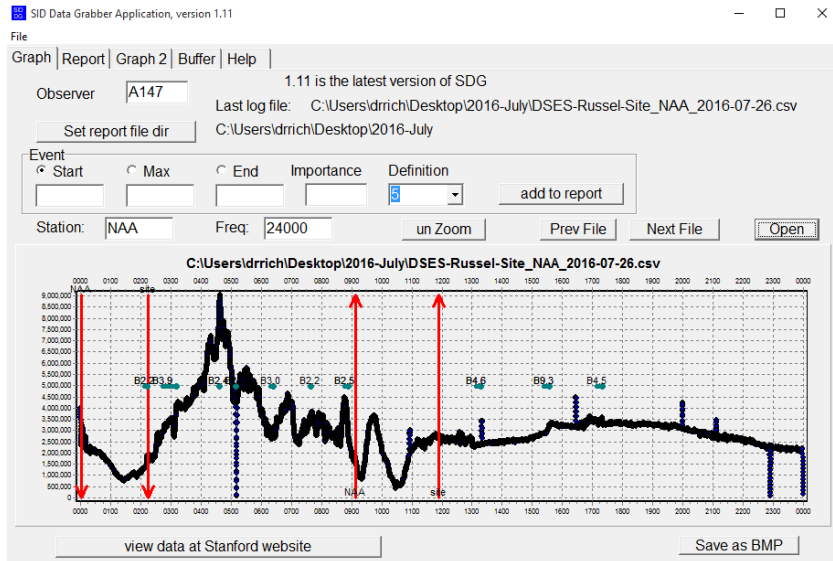
July 25, 2016

**Results:** NAA and NML did not detect any flares during this period



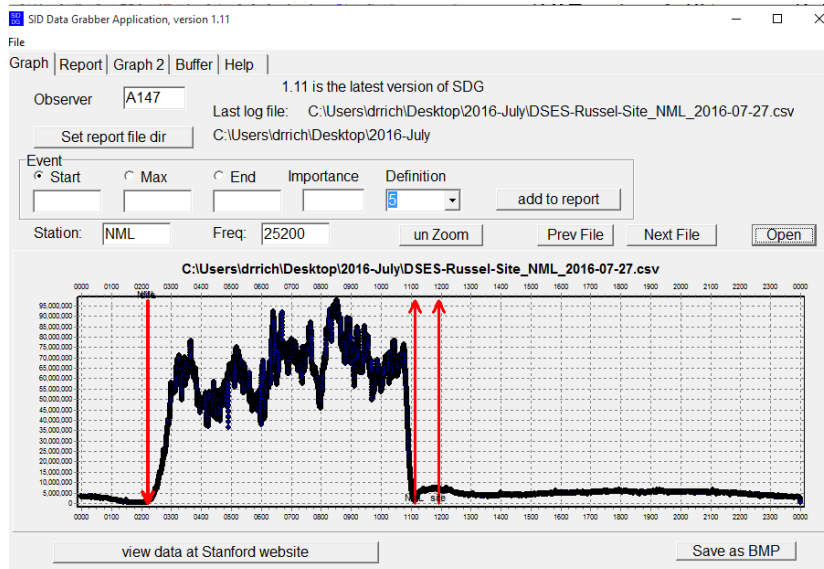
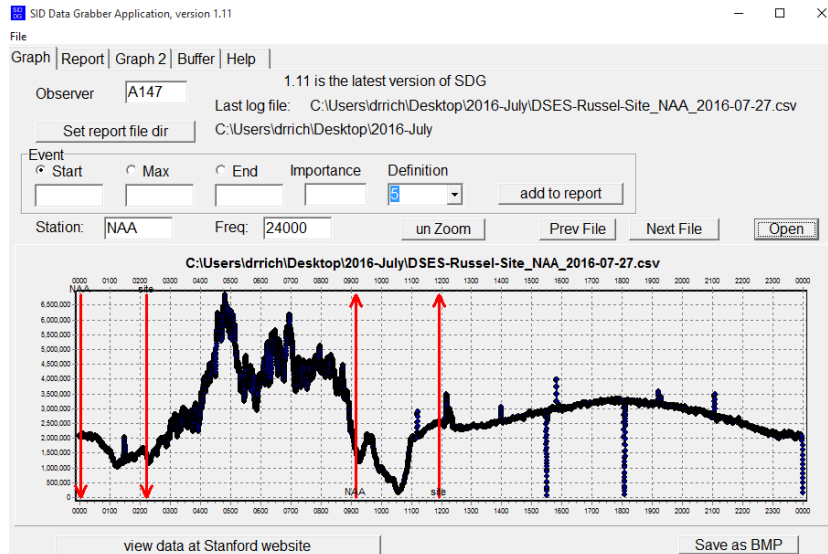
July 26, 2016

**Results:** NAA detected B9.3 flare. NML did not detect the flare



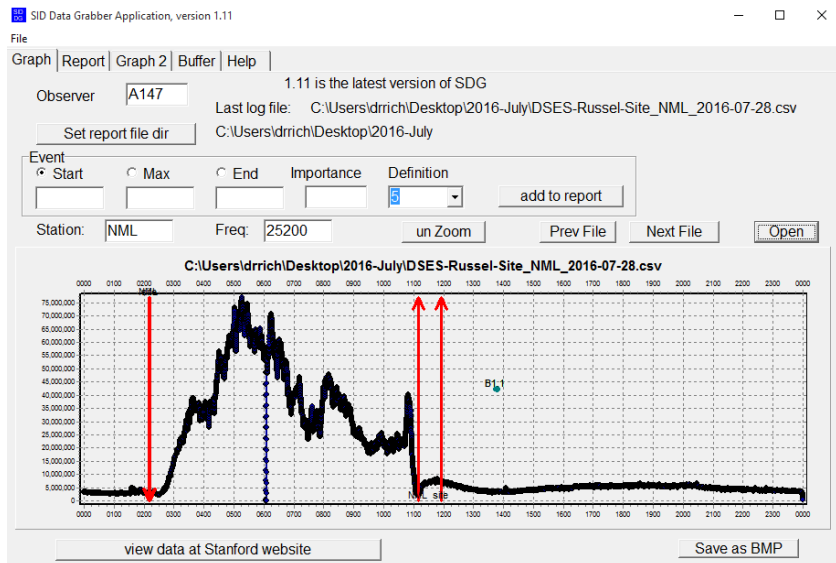
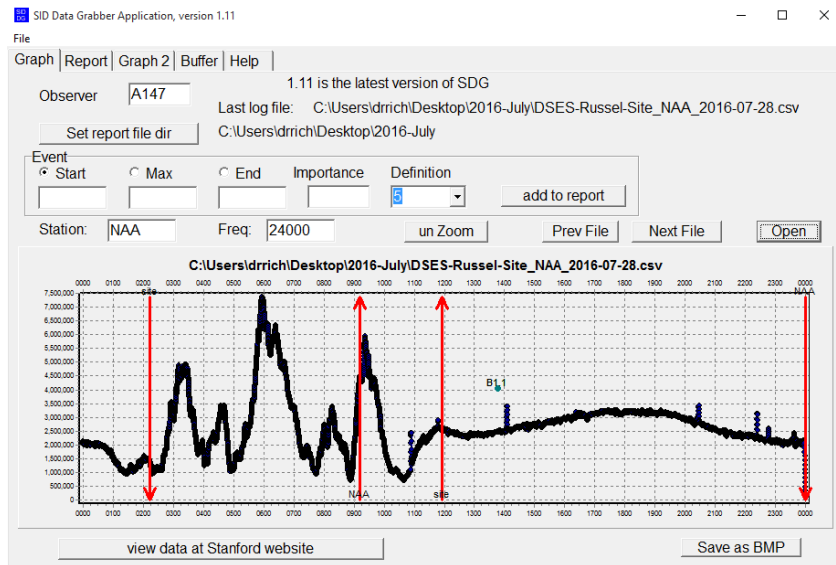
July 27, 2016

**Results:** NAA and NML did not detect flares during this period



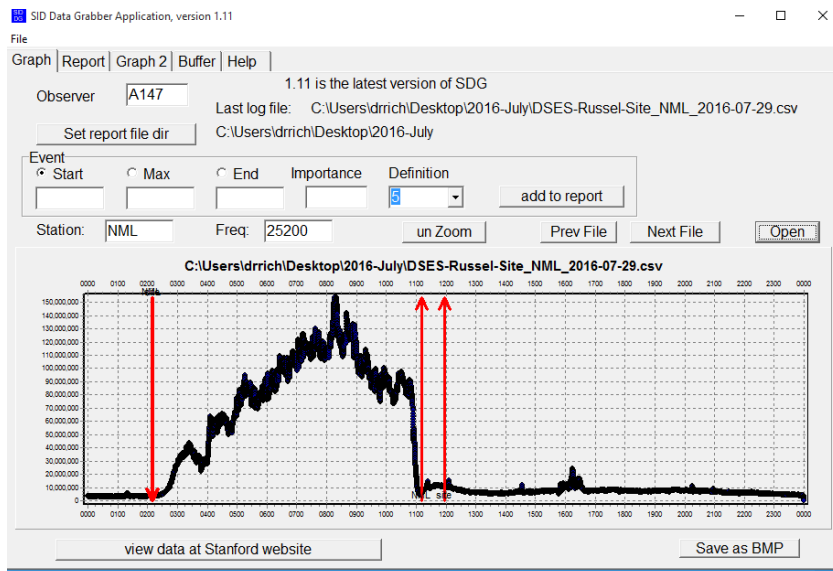
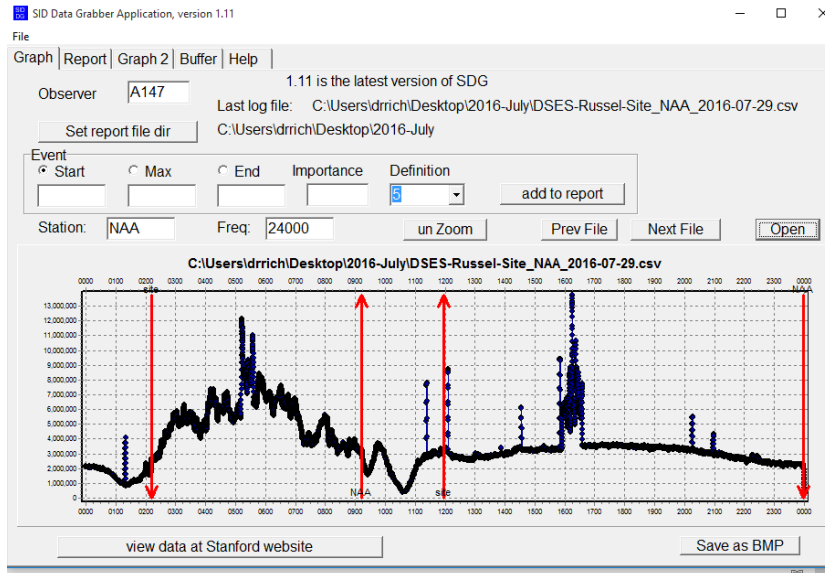
July 28, 2016

**Results:** NAA and NML did not detect flares during this period



July 29, 2016

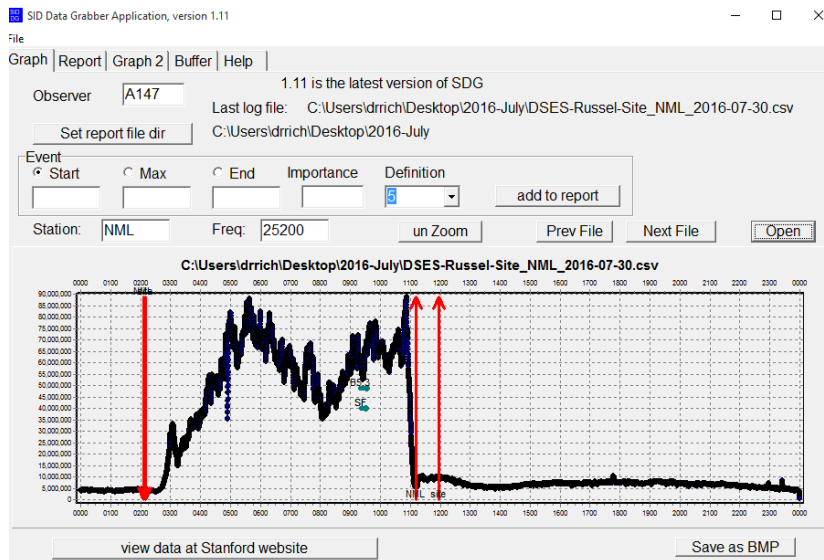
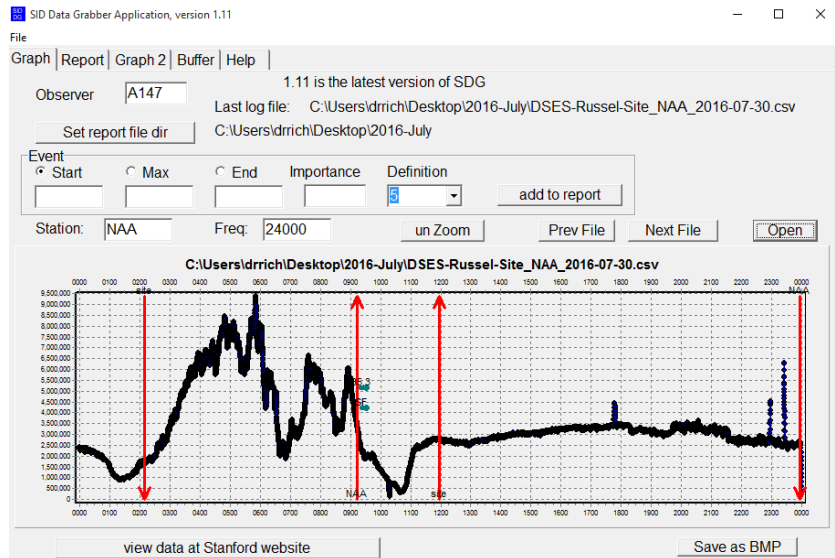
**Results:** NAA and NML did not detect flares during this period





July 30, 2016

**Results:** NAA and NML did not detect flares during this period



July 31, 2016

**Results:** NAA and NML did not detect flares during this period

