

BAA Radio Group VLF summary.

2010 SEPTEMBER

| DAY | Xray class | Observers | John Cook (22.1kHz)<br>Tuned radio frequency receiver,<br>0.58m frame aerial. | Roberto Battaiola (21.75kHz)<br>Modified AAVSO receiver. | Nigel Curtis<br>Gyrator receiver, shielded loop<br>aerial. | Bob Middlefell<br>Tuned radio frequency receiver,<br>0.5m frame aerial. | Mark Edwards (19.6kHz)<br>Spectrum Lab / PC 2m loop aerial. |
|-----|------------|-----------|---|--|--|---|---|
|     |            |           | START PEAK END (UT)   | START PEAK END (UT)                                      | START PEAK END (UT)  | START PEAK END (UT)   | START PEAK END (UT)   |
| 6   | C2.5       | 1         | 09:41 09:50 ?   |  |  |   | 14:58 15:00 15:19 1   |
| 28  | C1.7       | 5         | -   |  |  |   | 09:42 09:53 10:28 2+  |
| 30  | B5.8       | 1         |   |  |  |   |   |

| DAY | Xray class | Observers | Colin Clements (23.4kHz)<br>AAVSO receiver, 0.76m screened<br>loop aerial. | Karen Holland<br>Tuned radio frequency receiver,<br>0.58m frame aerial. | Mike King (20.9kHz)<br>AAVSO receiver.<br>loop aerial. | John Wardle<br>Gyrator MKII receiver, 1m loop<br>aerial. | Peter King (18.3kHz)<br>Own designed receiver, 1.4m loop<br>aerial. |
|-----|------------|-----------|--|---|--|--|---|
|     |            |           | START PEAK END (UT)  | START PEAK END (UT)   | START PEAK END (UT)                                    | START PEAK END (UT)                                      | START PEAK END (UT)   |
| 6   | C2.5       |           |  |   |  |  | 09:40 09:50 10:00 1   |
| 28  | C1.7       |           |  |   |  |  |   |
| 30  | B5.8       |           |  |   |  |  |   |

| DAY | Xray class | Observers | Paul Hyde (22.1kHz)<br>Tuned radio frequency receiver,<br>0.96m frame aerial. | Gordon Fiander<br>PC sound card. | John Elliott<br>Tuned radio frequency receiver,<br>0.5m frame aerial. | Martyn Kinder (18.2kHz)<br>Tuned radio frequency receiver,<br>0.58m frame aerial. | Mark Horn (23.4kHz)<br>Tuned radio frequency receiver,<br>0.58m frame aerial. |
|-----|------------|-----------|---|----------------------------------|---|---|---|
|     |            |           | START PEAK END (UT)   | START PEAK END (UT)              | START PEAK END (UT)   | START PEAK END (UT)   | START PEAK END (UT)   |
| 6   | C2.5       |           |   |                                  |   |   |   |
| 28  | C1.7       |           | 09:43 09:53 ?   |                                  |   | 09:41 09:56 10:06 1   |   |
| 30  | B5.8       |           |   |                                  |   | 09:36 09:44 10:26 2+  |   |

There are just two C-class flares recorded this month, with a possible B-class on the 30th. This flare is listed in the SWPC daily event list as an X-ray flare and visible bright point as follows: GOES14 X-ray start 09:44, peak 09:59, and the visible bright point at San Vito observatory start 10:04, peak 10:05. The SWPC summary PRF1831 lists this event as an X-ray flare start 10:04, peak 10:05. Both give the source location as N19 W29 on the sun, active region 1109. My usual reference is the GOES list from the weekly SWPC PRF summaries, leading me to think that the SID was before the flare. Given the the dual timings in the daily event list however, it is possible that the B5.8 flare was responsible for the SID. The rest of September was quiet, with no flares on the 1st, 2nd, 9th, or 14th, just five more small C-class flares during our night.

VLF flare activity 2005/10.

