

## Re-evaluation on earthquake lights at Matsushiro earthquake swarm

# Yuzo Ishikawa[1]

[1] Kakioka Magnetic Observatory, JMA

The earthquake light were reported at Matsushiro earthquake swarm by Kuribayashi.

Two famous photos of the earthquake light at the Matsushiro earthquake swarm were checked by using the new swarm catalog. The first photo was taken on 1966 Feb. 12th 04:17, but two felt earthquakes were reported. We could not determine which event was directly related to the earthquake light and these events were still very small. As these are too small, the amplitude of these events were not measured. The biggest event in this 30 minutes was M4.2 occurred at 04:05:56.

The first photo was taken on 1966 Feb.12.

Origin time \_\_\_N\_\_\_E\_\_\_UD\_\_\_S-P Int.

03:21: \_\_\_\_\_1

04:05:56 \_\_\_\_\_+33.5\_-+32.5\_-+24.2\_-0.6\_-4\_-M4.2

04:07:00 \_\_\_\_\_+0.2\_-1.2\_-0.4\_-1.0\_-0

04:11: \_\_\_\_\_1

04:14: \_\_\_\_\_1

04:17: photo was taken,light duration 35(23) sec

04:17: \_\_\_\_\_1

04:17: \_\_\_\_\_1

04:27:01 \_\_\_\_\_+0.7\_-+0.7\_-+1.9\_-0.6\_-1

The second one was taken on 1966 Sep.26.

Origin time N E UD S-P Int.

02:33:17 -0.0 +0.2 -0.3 1.0 1

02:35:38 -0.4 +0.5 +3.6 0.4 2

02:36:22 -0.1 +0.2 +1.1 0.4 1

02:37:40 -0.0 +0.1 +0.7 0.4 1

02:57: 1

03:06: 1

03:16: 1

03:20: 1

03:25: photo was taken,light duration 96(96)sec

03:45: 1

03:50: 1

04:07: 1

04:11: 1

04:37: 1

05:11:14 -1.0 -0.1 +0.9 0.3 1

05:38:32 -3.3 +5.5 +7.8 0.6 2

The second earthquake light had not the event at same time. We could not pick up any events for this photo.

Then, we concluded that though two photos were thought as the typical examples as the earthquake light for long time, it was rather difficult to think it true.