

# Video Records of Multiblast Cratering Experiments

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Video was recorded with cameras on the ground and on a UAV (drone). Six video cameras were arranged in about 30 m distance in a 180° arc around the blast location. Other cameras were mounted at a distance of 50 m from the blast location, somewhat elevated.

## File Names & Cameras

`2018-07-26_pad[i]_[cam].mp4`

- 2018-07-26: Date when video was taken.
- `[i]` : Pad number (1 through 4).
- `[cam]` : A camera identifier.
  - `4k[j]` : The arc of 4k cameras.
  - `c2` : 50 m distance from blast, 1920x1020 px resolution at 59.94 fps.
  - `drone1` : Camera mounted to a gimbal on a drone recorded at 25 fps, 4k resolution. The drone flew directly above the explosions. Operated by the LDEO crew (Oppenheimer, Lev).

Video cutting, and synchronization was done by the UB crew (Sonder, DiemKaye, Yu). If there are any problems, bugs, contact Ingo Sonder.

## Arc of 4K Cameras

The arc consisted of six cameras, which all recorded at 23.976 (24000/1001) fps. Most cameras were Sony FDR-AX100 camcorders.

4k-numbering starts at left/east.

- INGV (Ricci, Taddeucci): 4k1, 4k2
- Yamagata Univ. (Tsunematsu): 4k3, 4k4
- UB (Hyman, DiemKaye, Yu, Sonder): 4k5, 4k6

## Known Issues

- For some runs the `4k5` camera records are not perfectly focused.
- No (standard) drone footage for pad 3.

- 4k6 is missing for pad 2.
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