

Video Meteor Spectroscopy

Kilwinning Spectroscopic Survey for *Meteors*

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Quadrantids 2015 : Additional results.

During the night of the Quadrantid peak (3rd/4th January 2015) several video meteor spectra were captured ⁽¹⁾. These revealed a uniform spectrum composition with distinct characteristics. After analysing the spectra an additional observation from Japan was noted ⁽²⁾. This showed the same properties.

Three images and the derived spectra plus the observation from Japan are shown below (including coloured synthetic versions).

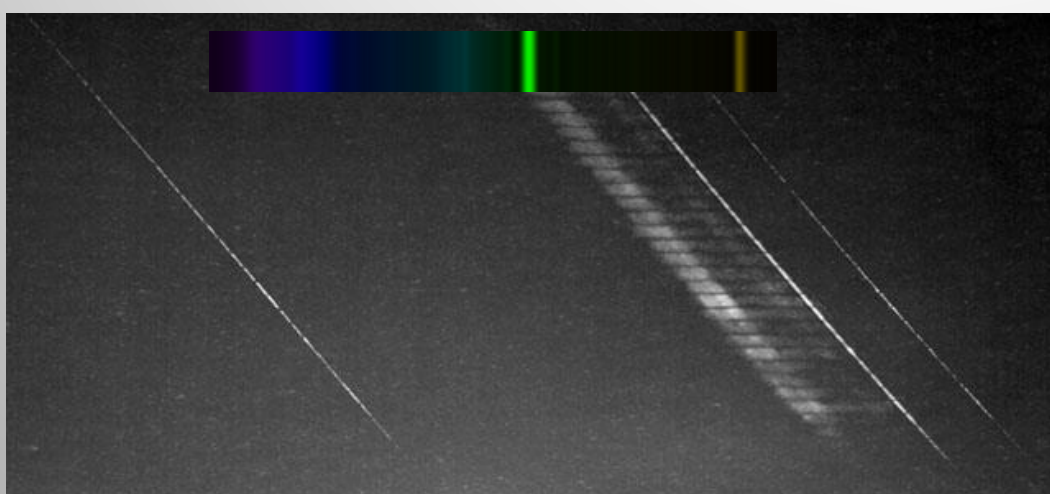
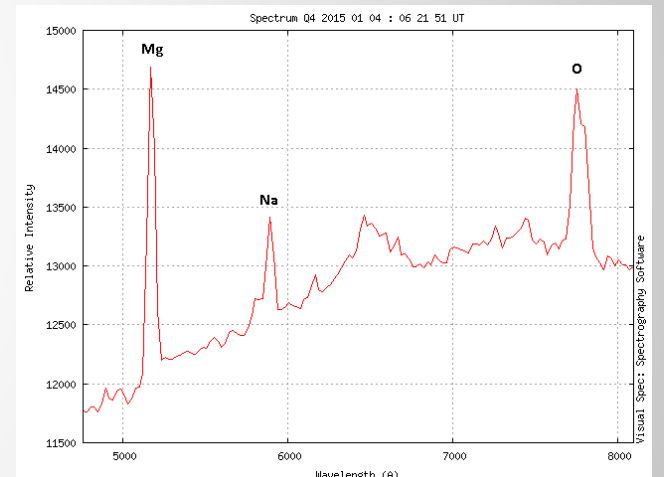
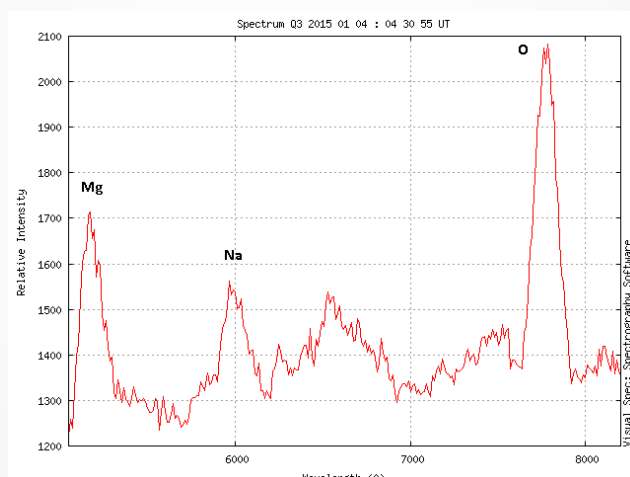
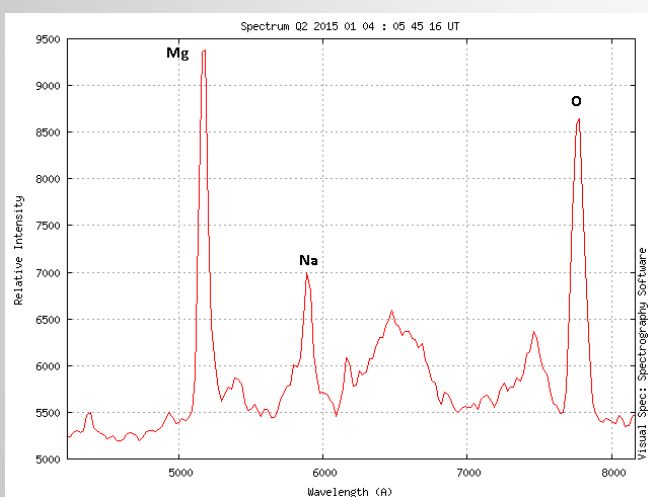
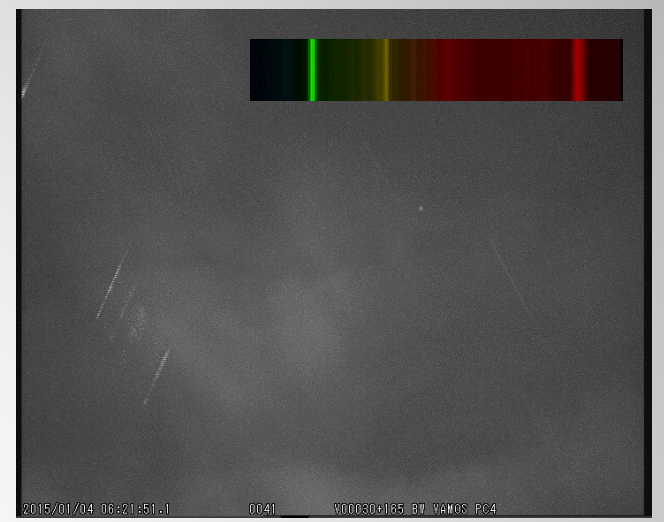
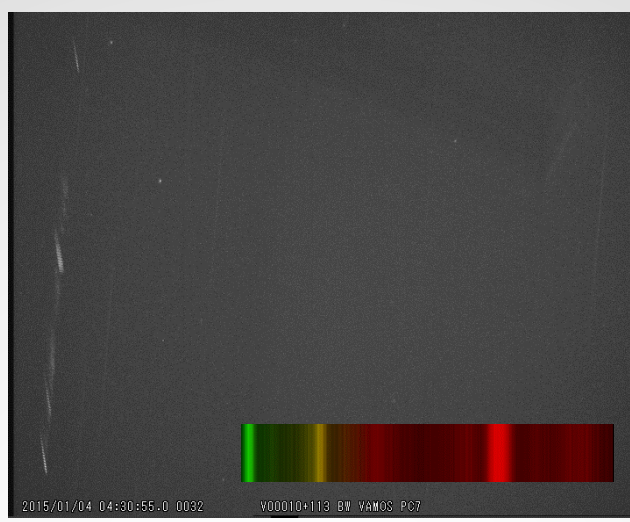
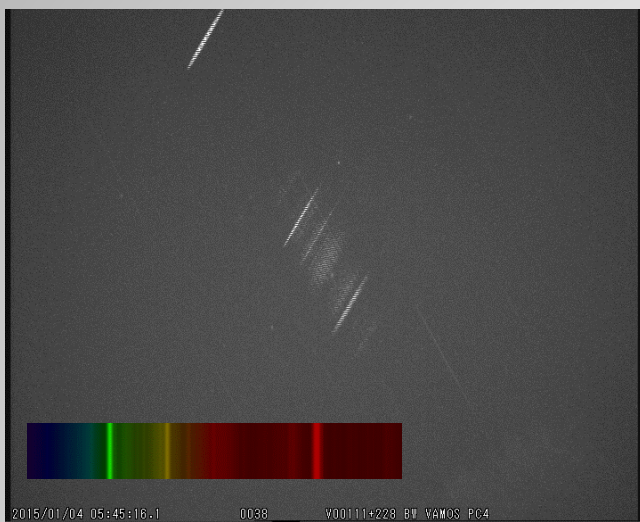
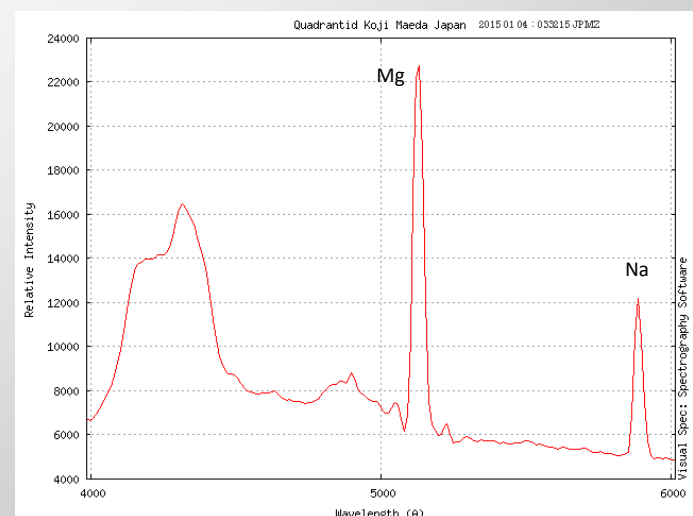


Image courtesy of Koji Maeda.



These results show the relative intensity of the magnesium line is consistently greater than the sodium line. Further observations will be needed to confirm this result, however it demonstrates the continuing development and utility of modern video meteor spectroscopy.

1: Watec 902H2 Ultimate camera with 12mm f0.8 lens and 600 lines/mm grating. UFO capture software.

2: SonotaCo UFO Capture Forum posting by Koji Maeda, January 8th 2015. <http://sonotaco.jp/forum/viewforum.php?f=17>