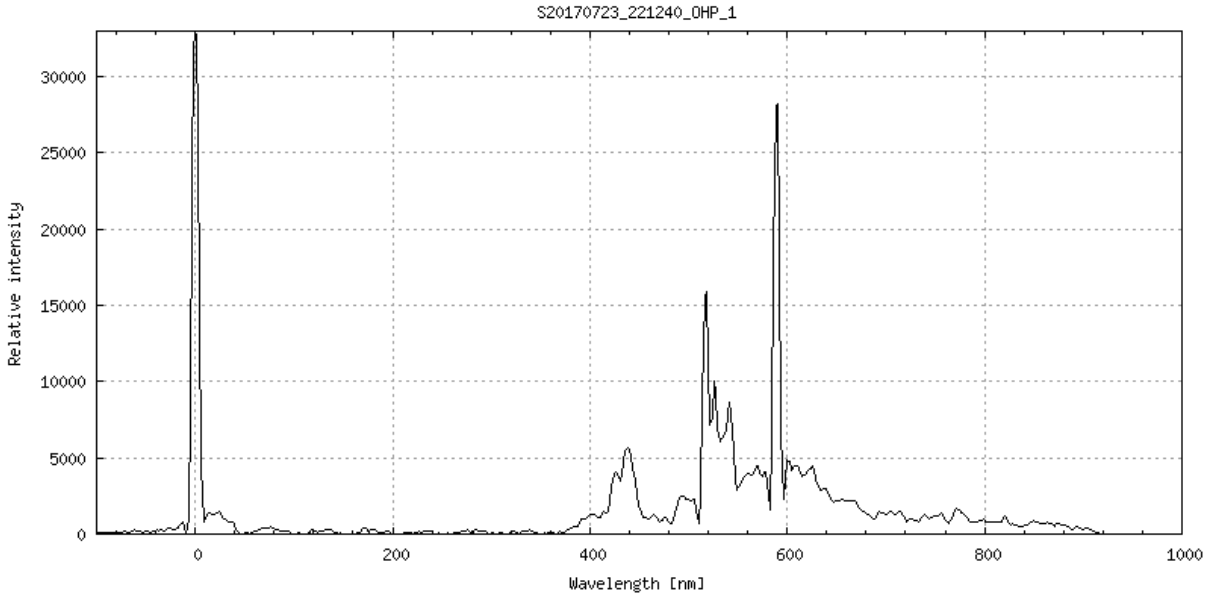
Spectrum plotted with ISIS



Analysis of spectra

From `UFO capture meteorspectra 600Lpart4a.doc`
Ratio of Na/Mg/Fe:
Madiedo, Jose M.: The ρ-Geminid meteoroid stream: orbits, spectroscopic data and implications for its parent body
http://adsabs.harvard.edu/abs/2015MNRAS.448.2135M
..\..\..\..\Users\Dubs\Downloads\Astro\Meteor\spectro\Madiedo rho geminids MNRAS 2135.full.pdf found on ResearchGate
Reference to method:
Borovicka J., Koten P., Spurny P., Bo˘ cek J., Stork R., 2005, Icarus, 174, 15
Ordered via ResearchGate

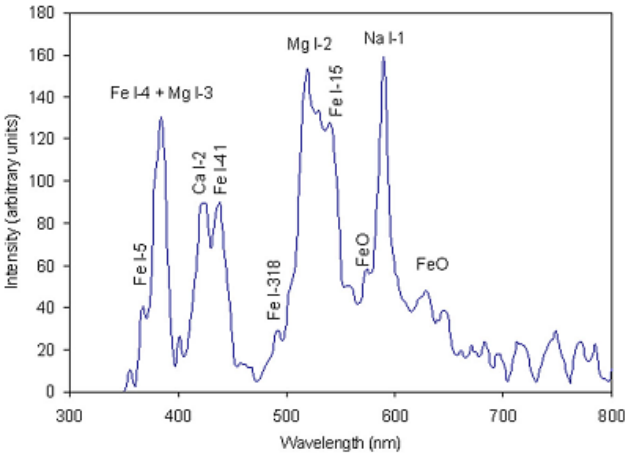


Figure 1. Calibrated emission spectrum integrated along the atmospheric trajectory of the 130113 meteor, where the main lines identified in the signal have been highlighted.

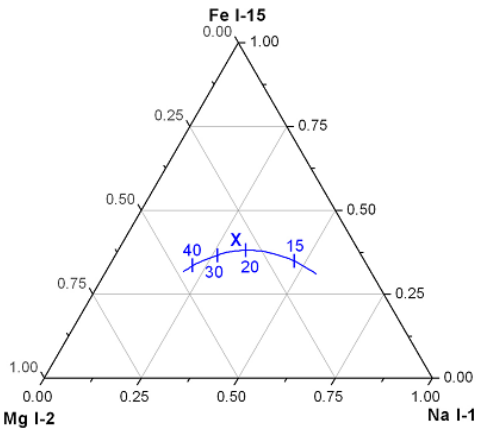


Figure 5. Expected relative intensity (solid line), as a function of meteor velocity (in km s^{-1}), of the Na I-1, Mg I-2 and Fe I-15 multiplets for chondritic meteoroids (Borovička et al. 2005). The cross shows the experimental relative intensity obtained for the 130113 meteor.

Same method of analysis as Vojáček, 2015, catalogue of representative meteor spectra
http://adsabs.harvard.edu/abs/2015A%26A...580A..67V
downloaded here:
..\..\..\..\Users\Dubs\Downloads\Astro\Meteor\spectro\catalog of meteor spectra aa25047-14.pdf

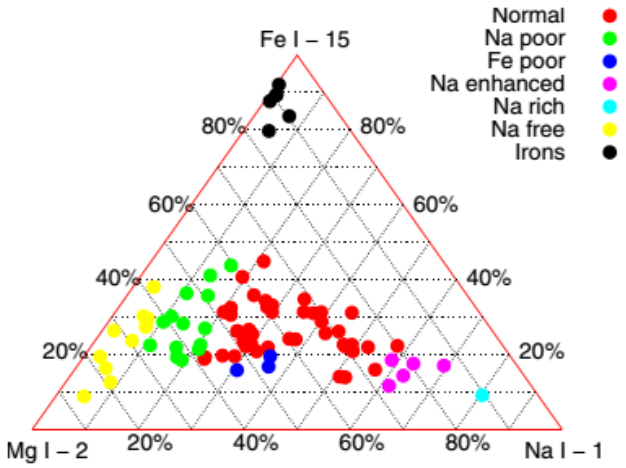


Fig. 8. Classification of meteor spectra. The ternary graph of the Mg I (2), Na I (1), and Fe I (15) multiplet relative intensities. Every group of meteoroids is represented with a different symbol.

5182	Mg I	2
5269, 5328, 5371, 5404, 5431, 5449	Fe I	15
5892	Na I	1

Method by Borovicka, older reference:
..\..\..\..\Users\Dubs\Downloads\Astro\Meteor\spectro\Borovicka fireball spectrum analysis 1993A+A 279 627B.pdf