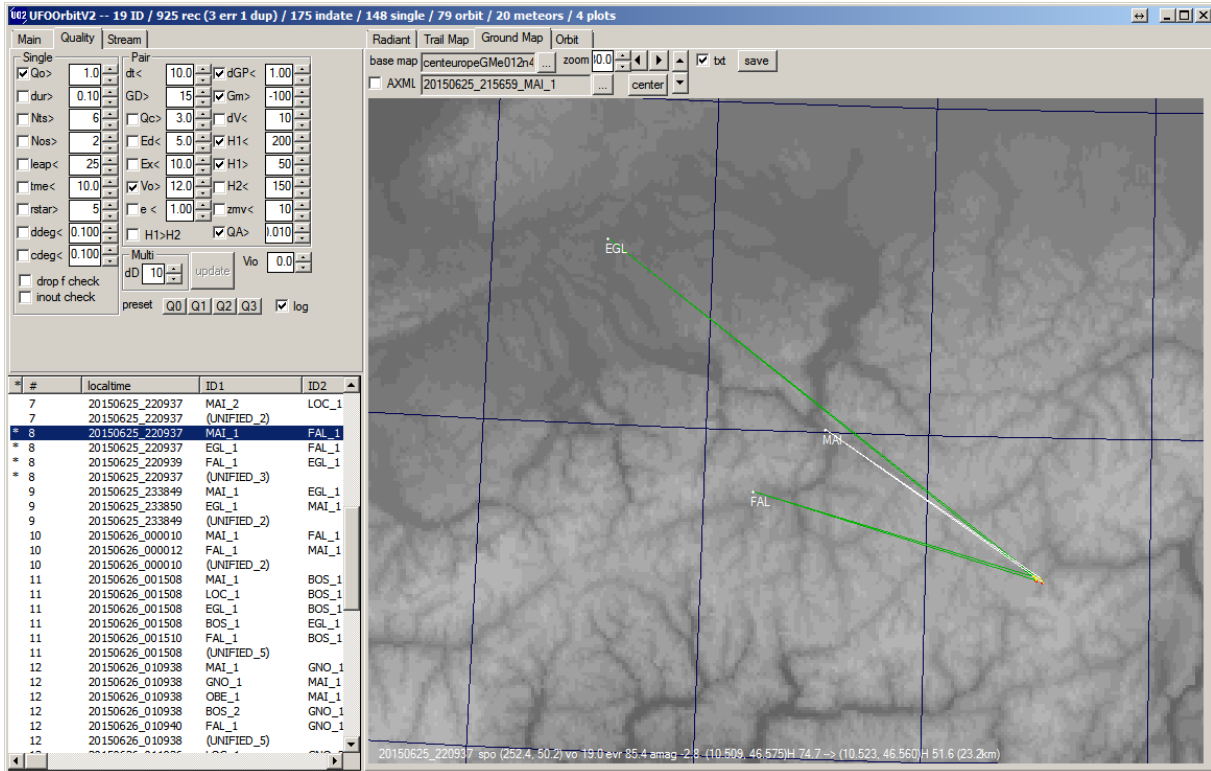
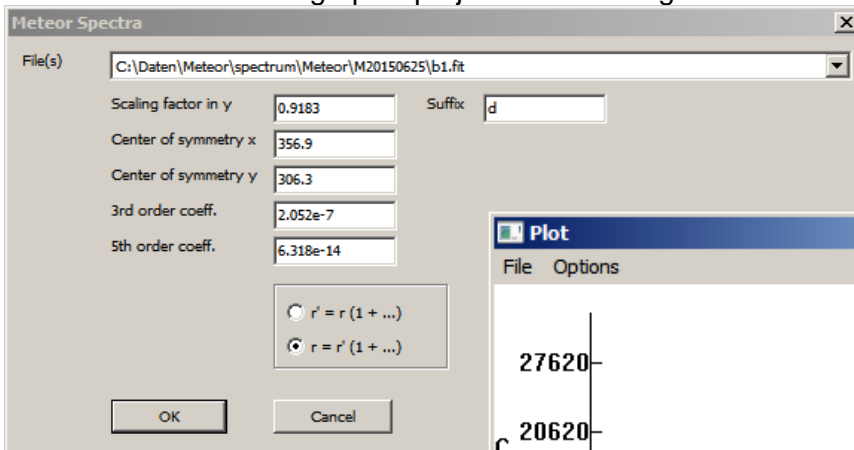


Meteor 20150625_220937

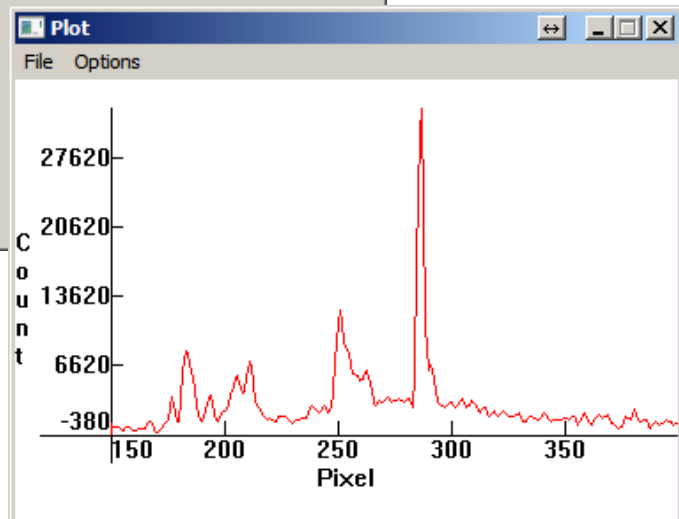


```
>load 150625_53
>add2 150625_40
>mult 0.025
>save 150625b
>reindex 150625_r 24 1 30
>load r1
>sub2 r 150625b b 0 30
```

Transformation to orthographic projection with ImageTools:



```
>load d_1
>register d_r 30
>add2 r 28
>save 150625add28
>load 150625add28
>slant 167 -10
>|_add 162 172
>|_plot
```



Achtung: mein Spektrum nicht response kalibriert, deshalb intensitäten nicht vergleichbar
 Ungünstige Beobachtungswinkel, deshalb Geschwindigkeit nicht genau bestimmbar
 ($Q_0 = 12^\circ$)

Mit A0 = 107, A1 = 20.10 → 150625add28new

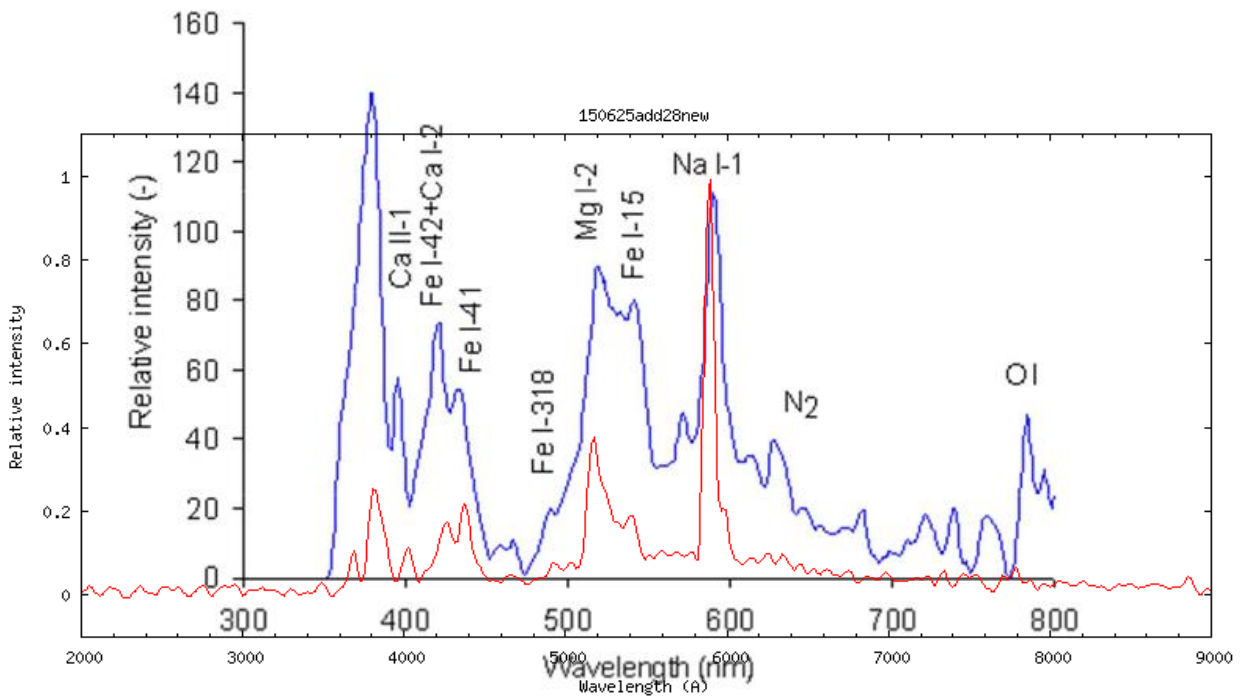


Figure 9. Calibrated emission spectrum recorded for the SPN250112 "Doñana" fireball. Intensity is expressed in arbitrary units.

<http://arxiv.org/ftp/arxiv/papers/1308/1308.0571.pdf>

Doñana:

The parent meteoroid struck the atmosphere with an initial velocity $V_0 = 14.7 \pm 0.3 \text{ km s}^{-1}$ and a zenith angle of 38.2° , with an apparent radiant located at $\langle = 42.3 \pm 0.3^\circ$, $TM = 3.8 \pm 0.3^\circ$

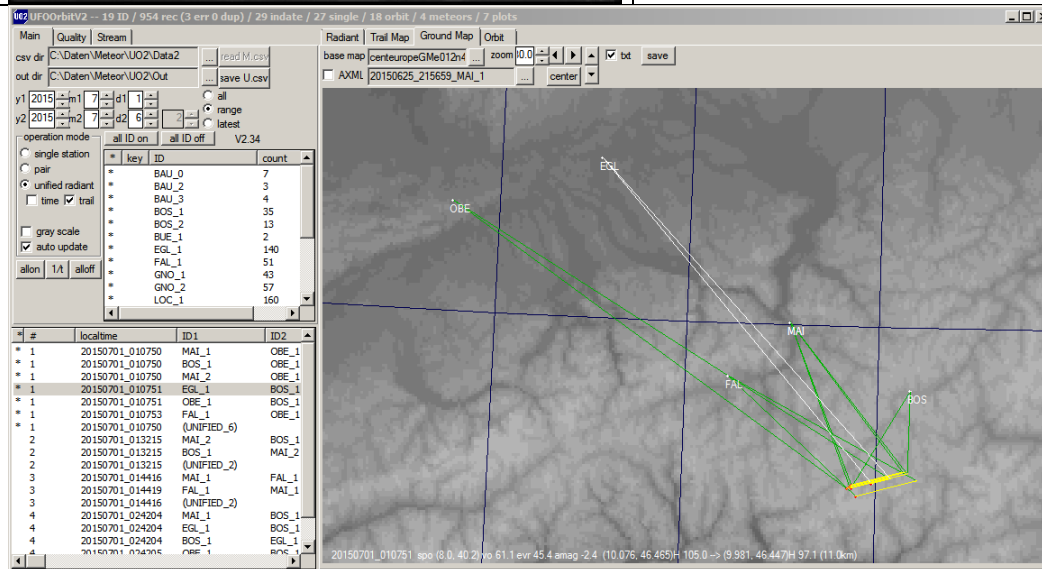
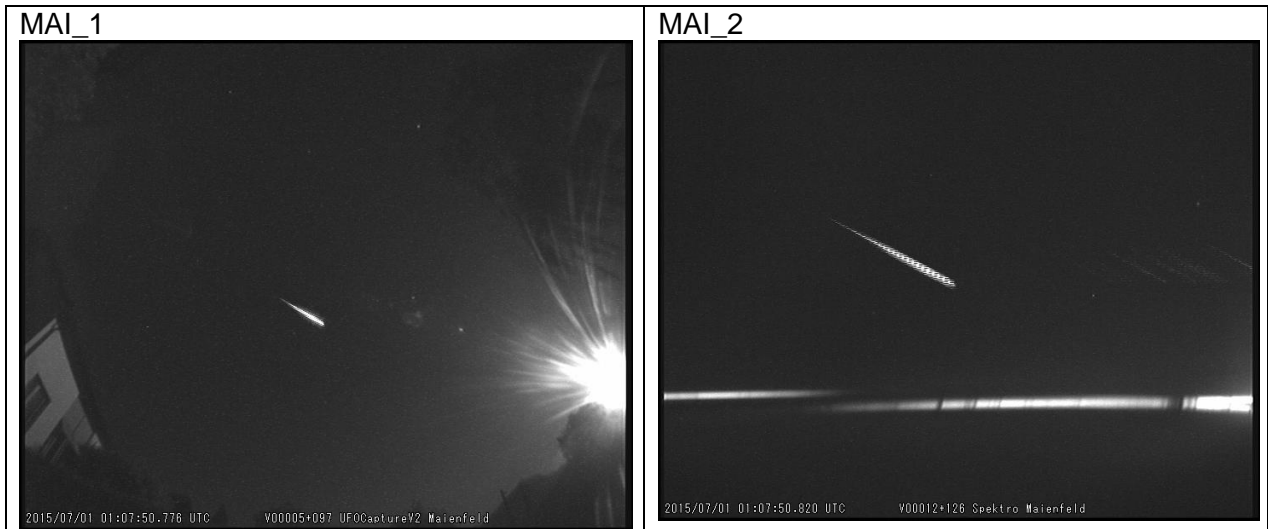
Relativ langsam, wie M20150625_220937 ($v_0 = v_\infty \cong 19 \text{ km/sec}$)

Wavelengths measured

Na I	5890	5890	reference
Mg I	5178	5185	
Mg I	3833	3826	

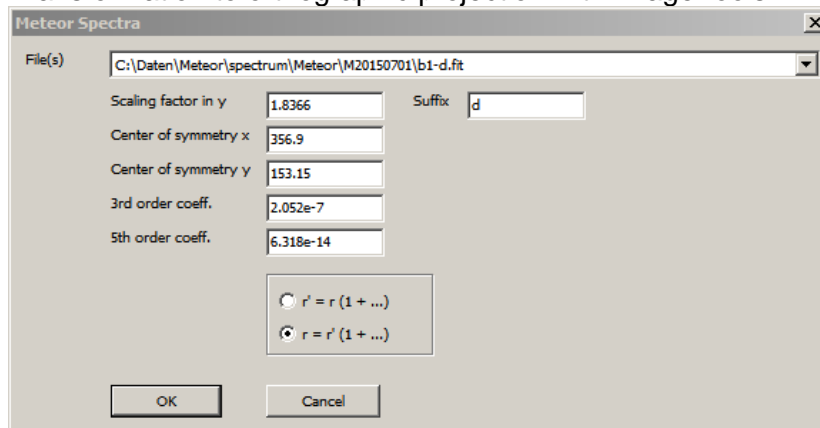
M20150701_010750

VirtualDub mit Bob doubler BFF alternate fields



```
>load 0701_01_78
>add2 0701_01_40
>mult 0.025
>save 0701_01b
>reindex 0701_01_r 52 1 27
>sub2 r 0701_01b b 0 27
```

Transformation to orthographic projection with ImageTools:



```

>load d_1
>register d_r 27
>add2 r 27
>save 0701_01add27
>slant 327 22
>load 0701_01add27
>save 0701_01add27s22
>l_add 322 332
>l_plot

```

```

ISIS linear pol
Lambda      -   O - C
7781.045   -7.045
5880.677    9.323
2.278      -2.278
RMS = 11.905 A
Disp: 20.10 A/Pixel!

```

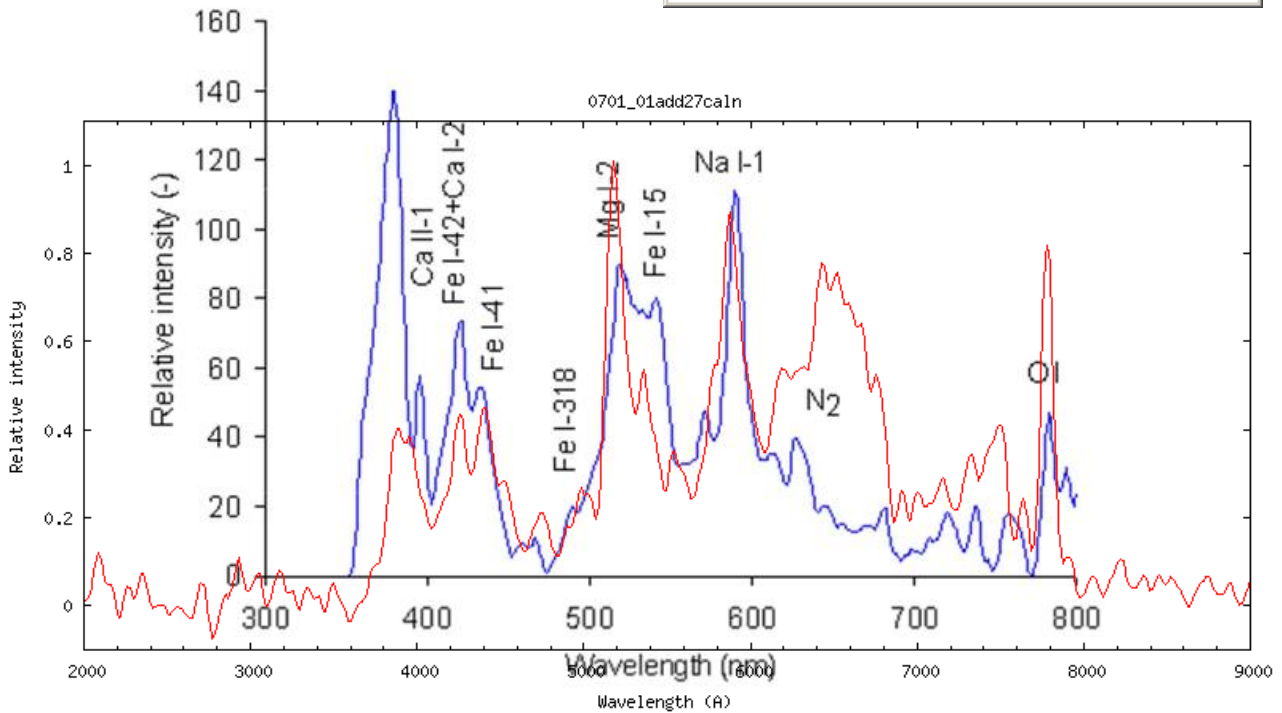
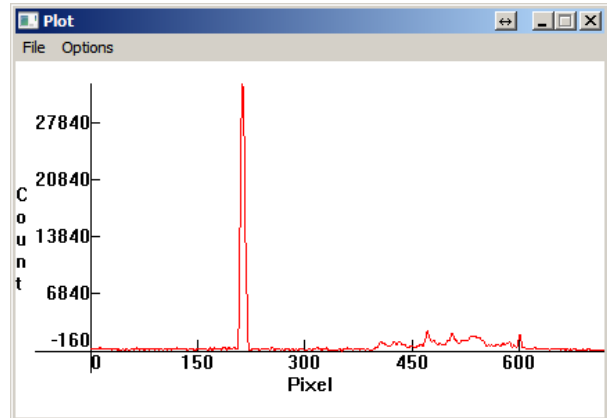


Figure 9. Calibrated emission spectrum recorded for the SPMN250112 "Doñana" fireball. Intensity is expressed in arbitrary units.

Wavelengths

Line	ref.	meas.	delta
Zero	0	2	-2
Mg I	5178	5187	-9
Na I	5890	5881	9
O I	7774	7781	-7