

## M20150809\_012117, Perseid, -6.3 mag

UFOOrbitV2 -- 26 ID / 7183 rec (0 err 0 dup) / 7183 indate / 7183 single / 4816 orbit / 1226 meteors / 7 plots

Main | Quality | Stream

csv dir C:\Daten\Meteor\UO2\Data ... read M.csv  
 out dir C:\Daten\Meteor\UO2\Out ... save U.csv

y1 2015 -m1 7 d1 30  
 y2 2015 -m2 9 d2 1 3

operation mode: all ID on | all ID off | V2.34

single station  
 pair  
 unified radiant  
 time  trail

gray scale  
 auto update

allon 1/t alloff

* key	ID	count
* BAU_1		146
* BAU_3		382
* BOS_1		201
* BOS_2		209
* BOS_3		81
* BOS_4		94
* BOS_5		34
* BOS_6		40
* BUE		3
* ...		...

* #	localtime	ID1	ID2
343	20150809_012026	FAL_1	MAI_2
343	20150809_012024	(UNIFIED_3)	
* 344	20150809_012117	MAI_1	GNO_
* 344	20150809_012117	MAI_2	GNO_
* 344	20150809_012119	GNO_2	MAI_1
* 344	20150809_012117	(UNIFIED_3)	
* 345	20150809_012117	BOS_1	FAL_1
* 345	20150809_012119	FAL_1	BOS_1
* 345	20150809_012117	(UNIFIED_2)	
346	20150809_015311	MAI_1	BOS_1

Radiant | Trail Map | Ground Map | Orbit

base map centeuropeGMe012n4 ... zoom 13.0 ... bxt save

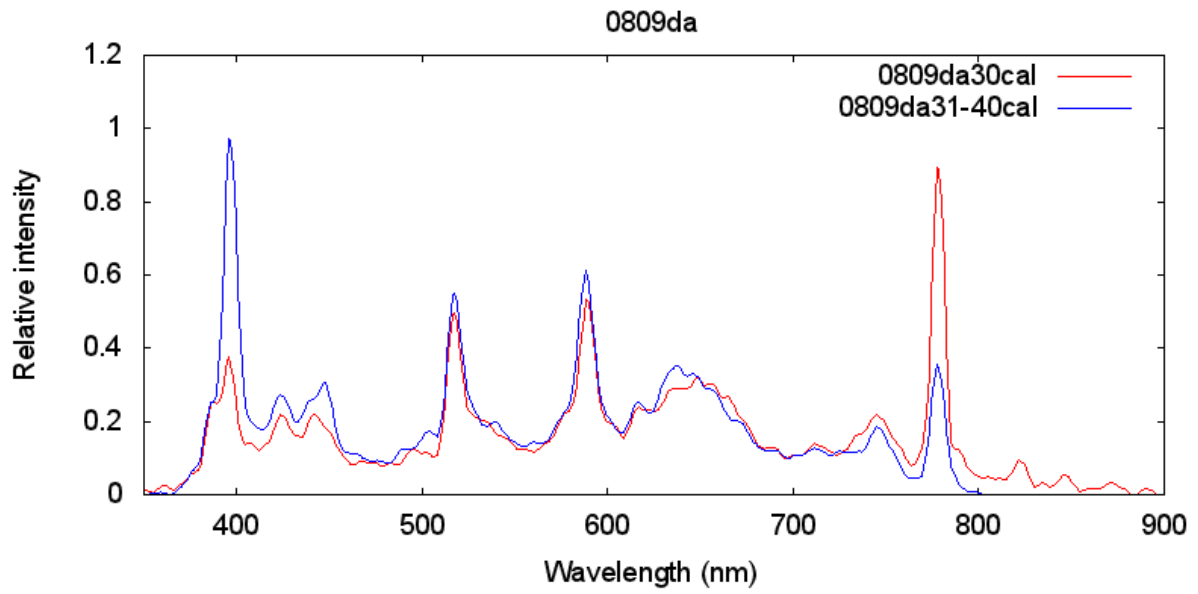
AXML 20150625\_215659\_MAI\_1 ... center

20150809\_012117 J5\_Per (42.6, 56.9) vo 58.8 evr 55.4 amag -7.7 (10.103, 46.601)H 119.2 -> (9.833, 46.454)H



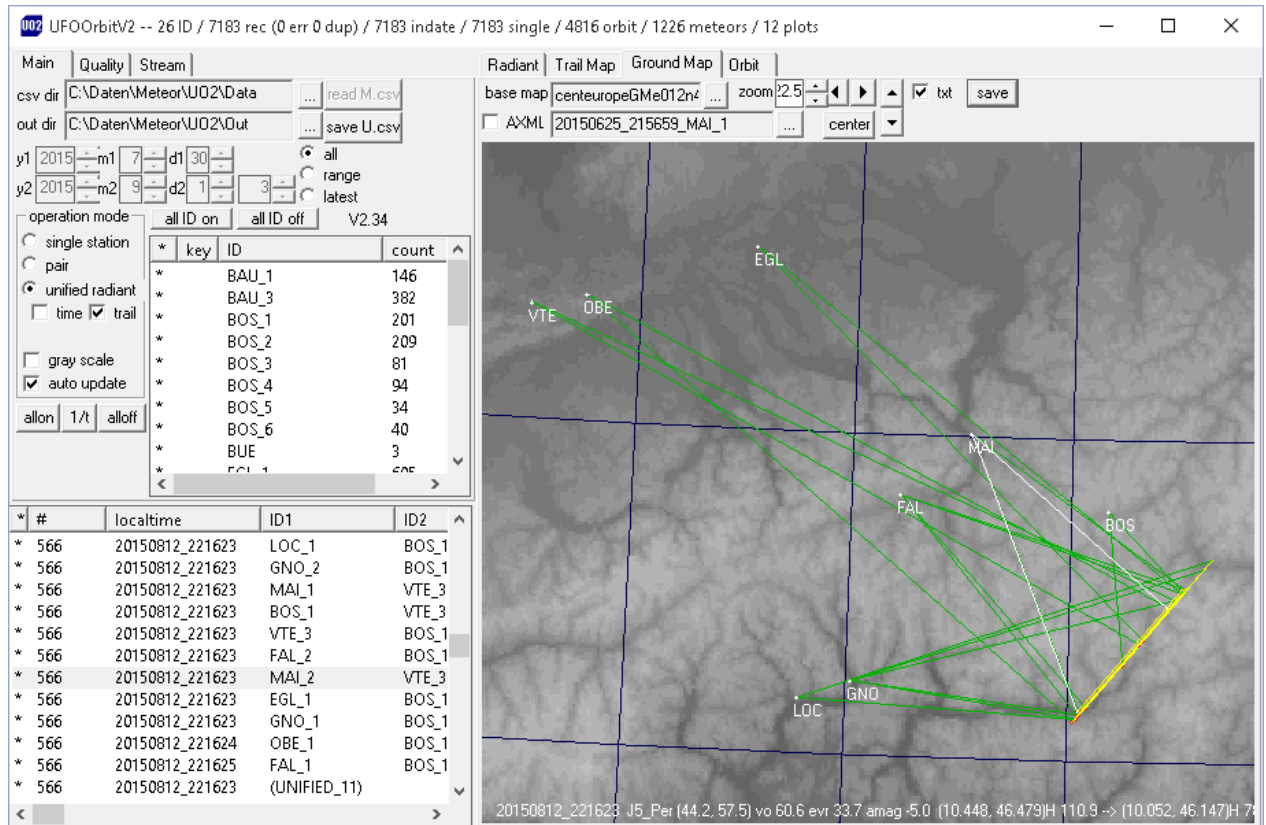
VirtualDub with filter: bob doubler (bff, none-fields) 142 images, 100 useful  
 single spectrum one field  
 (20 msec)  
 0.8 sec after start meteor  
 1.8 sec after start video





Red curve: 0 - 600 msec after start meteor spectra added  
 Blue curve: 0 - 800 msec after start meteor spectra added  
 Flash at 940 msec after start meteor saturated, no spectrum!

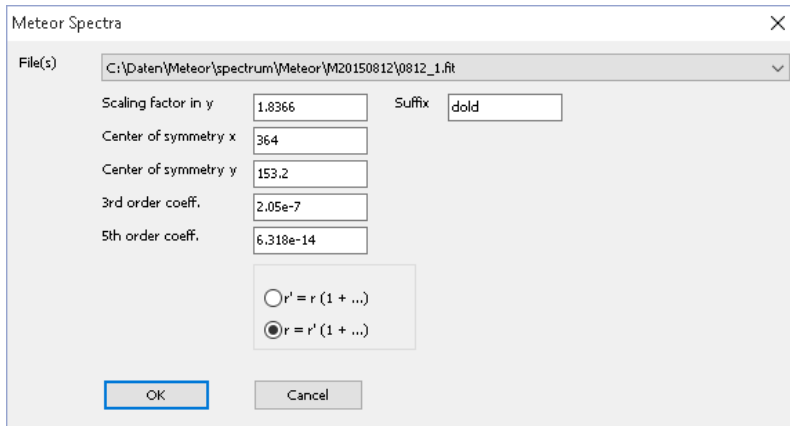
## Meteor 20150812\_221623, Perseid, -4.3 mag



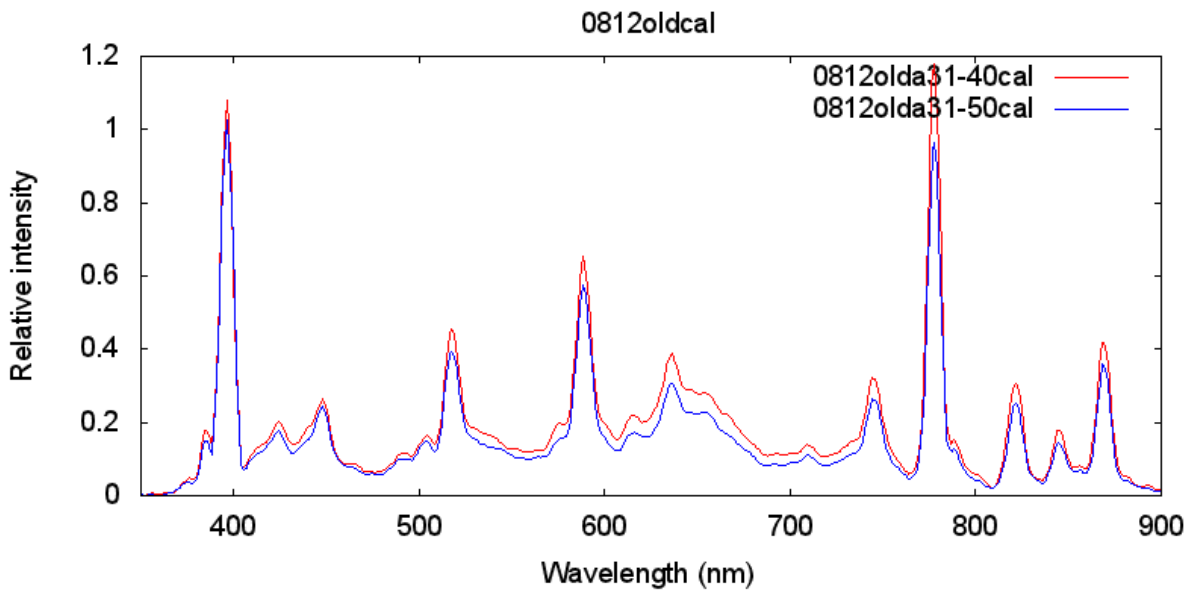
Observed by 11 cameras at 8 different locations!



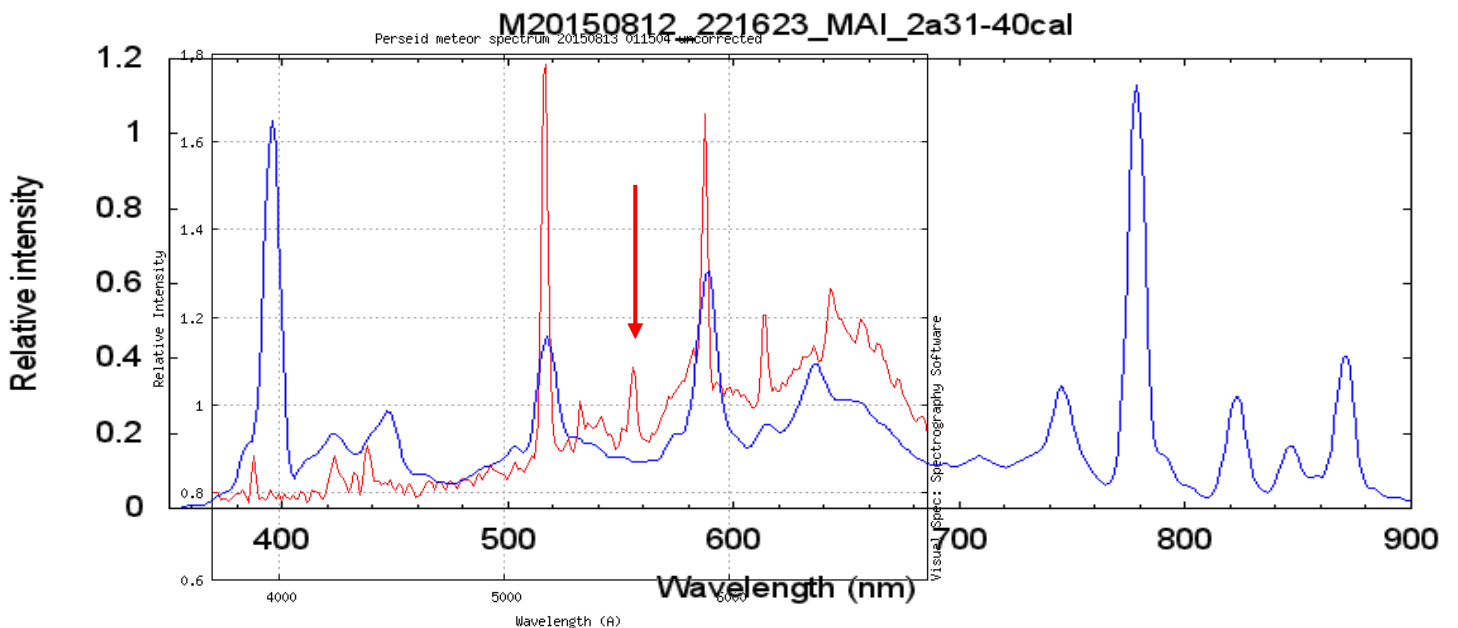
VirtualDub BobDoubler separation of frames into fields (20 msec time resolution)  
Distorsion parameters in Image Tools:



Linear calibration with zero order, Mg, Na and O lines:  
 RMS = 0.298 pixel      disp = 1.9996 nm/pixel  
 Comparison 10 or 20 fields added:



Comparison Bill Ward



557.7 nm [O I] missing in my spectra of meteor without trail (stacking, cut out narrow strip).

# Meteor 20150813\_024254, Perseid, -4.1 mag

UFOOrbitV2 -- 26 ID / 7183 rec (0 err 0 dup) / 7183 indate / 7183 single / 4816 orbit / 1226 meteors / 7 plots

Main | Quality | Stream | Radiant | Trail Map | Ground Map | Orbit

csv dir C:\Daten\Meteor\UJ02\Data ... read M.csv  
 out dir C:\Daten\Meteor\UJ02\Out ... save U.csv

y1 2015 -m1 7 -d1 30 ... all  
 y2 2015 -m2 9 -d2 1 ... range  
 latest

operation mode all ID on all ID off V2.34

single station  
 pair  
 unified radiant  
 time  trail  
 gray scale  
 auto update

allon 1/t alloff

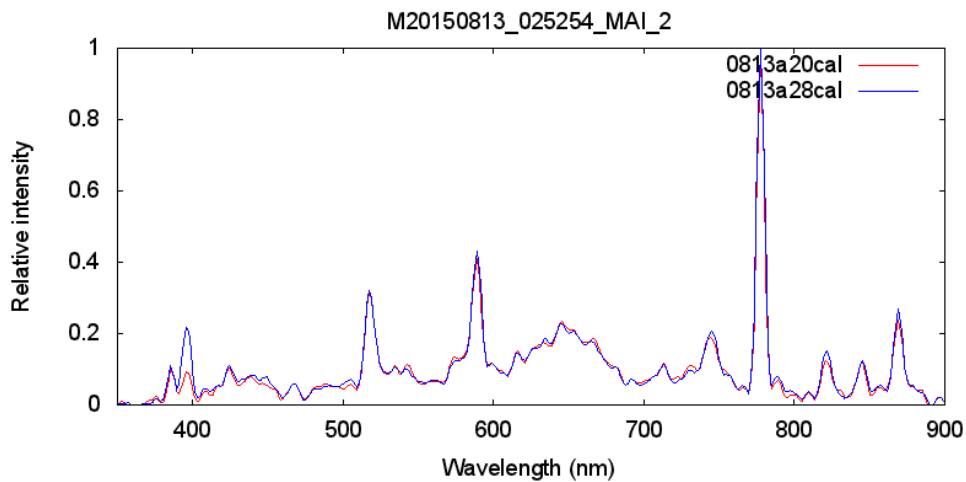
* key	ID	count
* BAU_1		146
* BAU_3		382
* BOS_1		201
* BOS_2		209
* BOS_3		81
* BOS_4		94
* BOS_5		34
* BOS_6		40
* BUE		3
* ...		...

* #	localtime	ID1	ID2
815	20150813_024226	VTE_2	LOC_3
815	20150813_024229	LOC_3	VTE_2
815	20150813_024226	(UNIFIED_2)	
* 816	20150813_024254	LOC_1	MAI_1
* 816	20150813_024254	MAI_2	LOC_1
* 816	20150813_024254	MAI_1	LOC_1
* 816	20150813_024254	GNO_2	MAI_1
* 816	20150813_024254	FAL_2	LOC_1
* 816	20150813_024256	FAL_1	LOC_1
* 816	20150813_024254	(UNIFIED_6)	
817	20150813_024704	VTE_4	OBE_1
817	20150813_024705	OBE_1	VTE_4

base map centeuropeGMe012n2 ... zoom 22.5 ... txt save  
 AXML 20150625\_215659\_MAI\_1 ... center

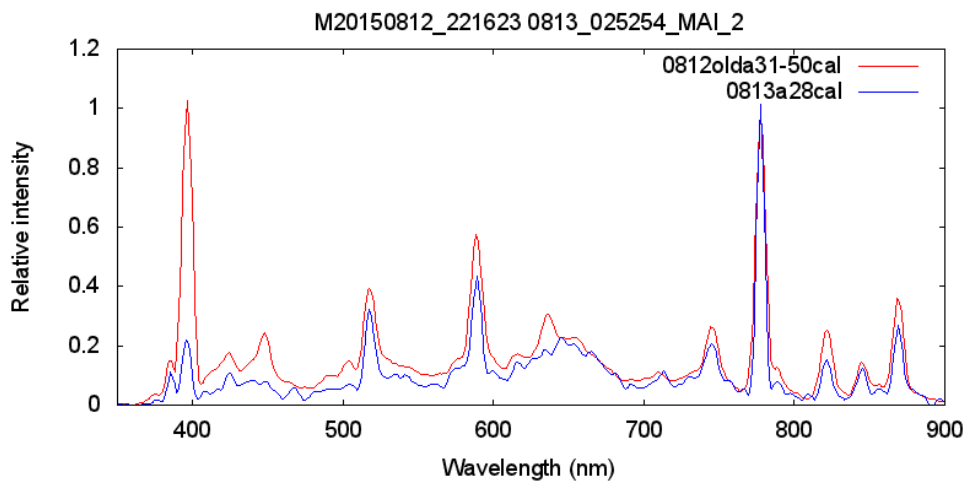
20150813\_024254 J5\_Per (49.1, 57.3) vo 61.9 evr 64.7 amag -5.4 (10.561, 45.782)H 109.8 -> (10.435, 45.704)H 8





Red curve: 20 spectra added (400 msec) from start meteor  
 Blue curve: 28 spectra added (480 msec)

Comparison with M20150812\_221623:



Red curve: meteor Aug. 12, 2015, 22:16 UTC  
 Blue curve: meteor Aug. 13, 2015, 02:52 UTC

Line positions 2013a28,  
 measured

385.609	Fe I
395.985	Ca II
424.548	Ca, Cr, Fe
467.164	
744.658	