JAK ZPRACOVAT JASNÉ BOLIDY?











EURÓPSKA ÚNIA EURÓPSKY FOND REGIONÁLNEHO ROZVOJA

SPOLOČNE BEZ HRANÍC



FOND MIKROPROJEKTŮ

MAIN TOPICS

Very bright fireballs with massive chip saturation



Bright fireballs through clouds



PROCESSING PROCEDURE

Export image sequence from video

using VirtualDub software, etc., output format *.bmp

Stacked stars mask

- from images without fireball or from another video (same or different night)
- using Startrails software, etc.
- gray scale inversion when needed (bright background, etc.)

Stacked fireball path image (beginning and end of path)

- only images without explosions or without scattering of light by clouds
- using Startrails software, etc.

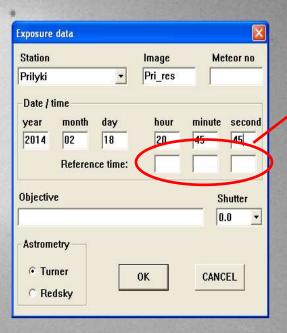
Combination of stacked images – fireball path and stars mask

using Adobe Photoshop software, etc.

Astrometry of resulting image

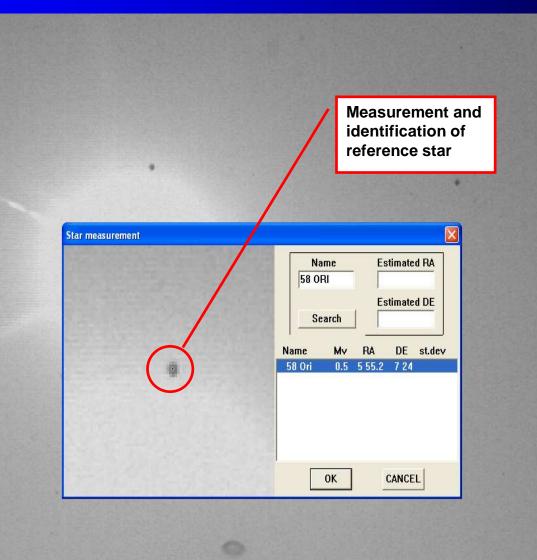
- using AstroRecord software, etc.
- ideal for astrometry over 25 reference stars around fireball path
- photometry from UA analysis

ASTRORECORD

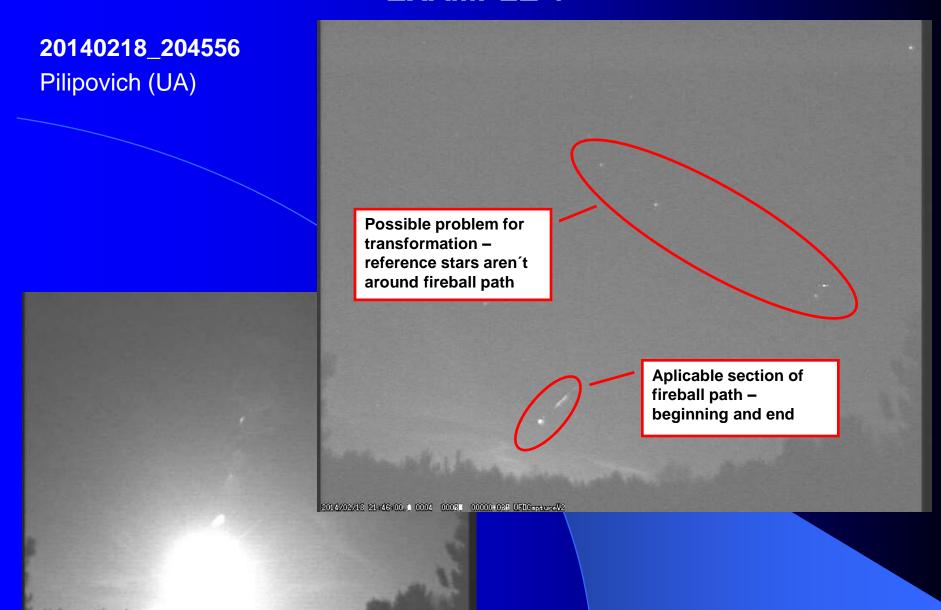


Reference stars can be used from another image in another time

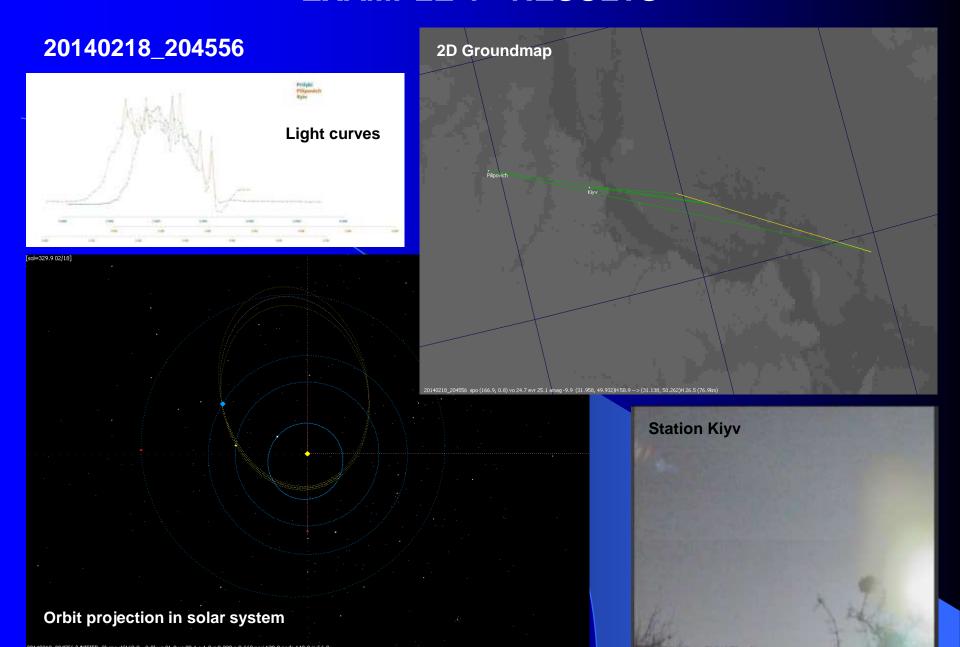
ASTRORECORD







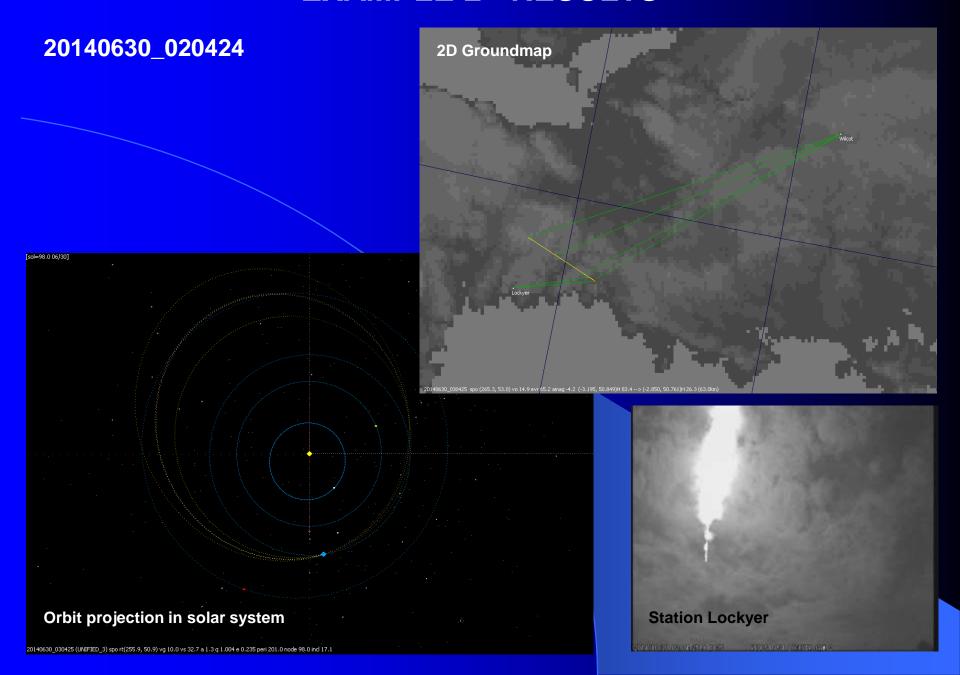
EXAMPLE 1 - RESULTS







EXAMPLE 2 - RESULTS



CONCLUSIONS

Processing procedure uses commercially available software

It can be used for "broken" videos of interesting meteors or fireballs

This method has limitations – number of reference stars, reference stars location to fireball path, etc.

Use for all sky cameras is very doubtful!



