

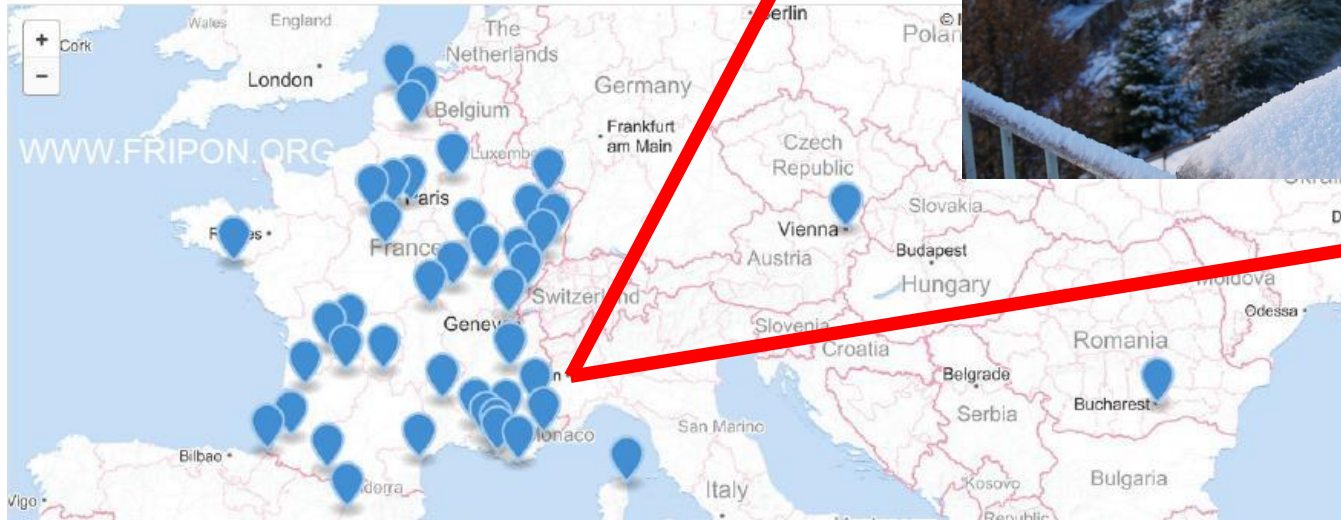
# News from the italian PRISMA fireball network

Daniele Gardiol and the PRISMA team

INAF - Osservatorio Astrofisico di Torino



# PRISMA and FRIPON



*august 2016*

**PRISMA**

*august 2018*



*august 2016*

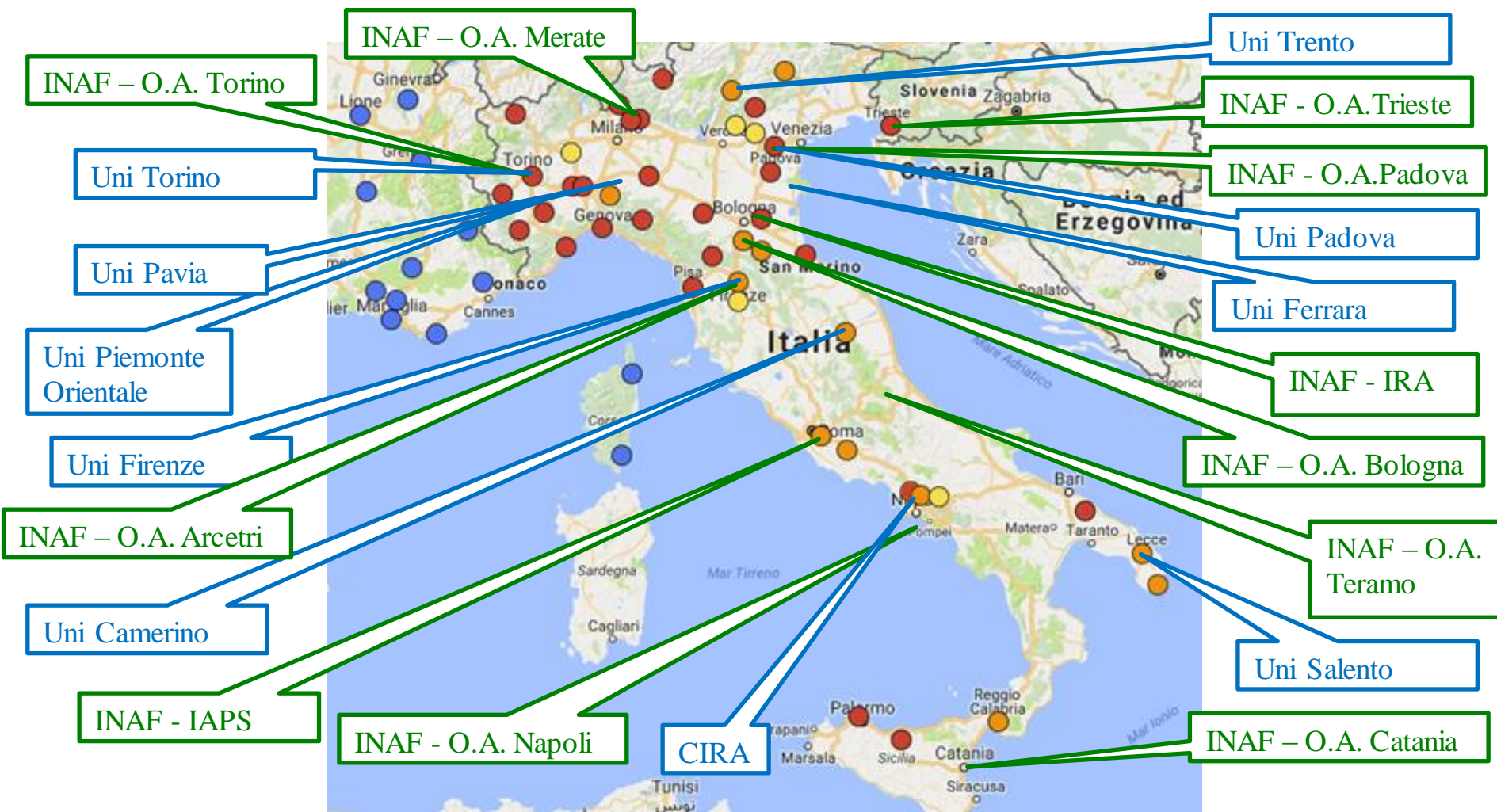
PRISMA

*august 2018*

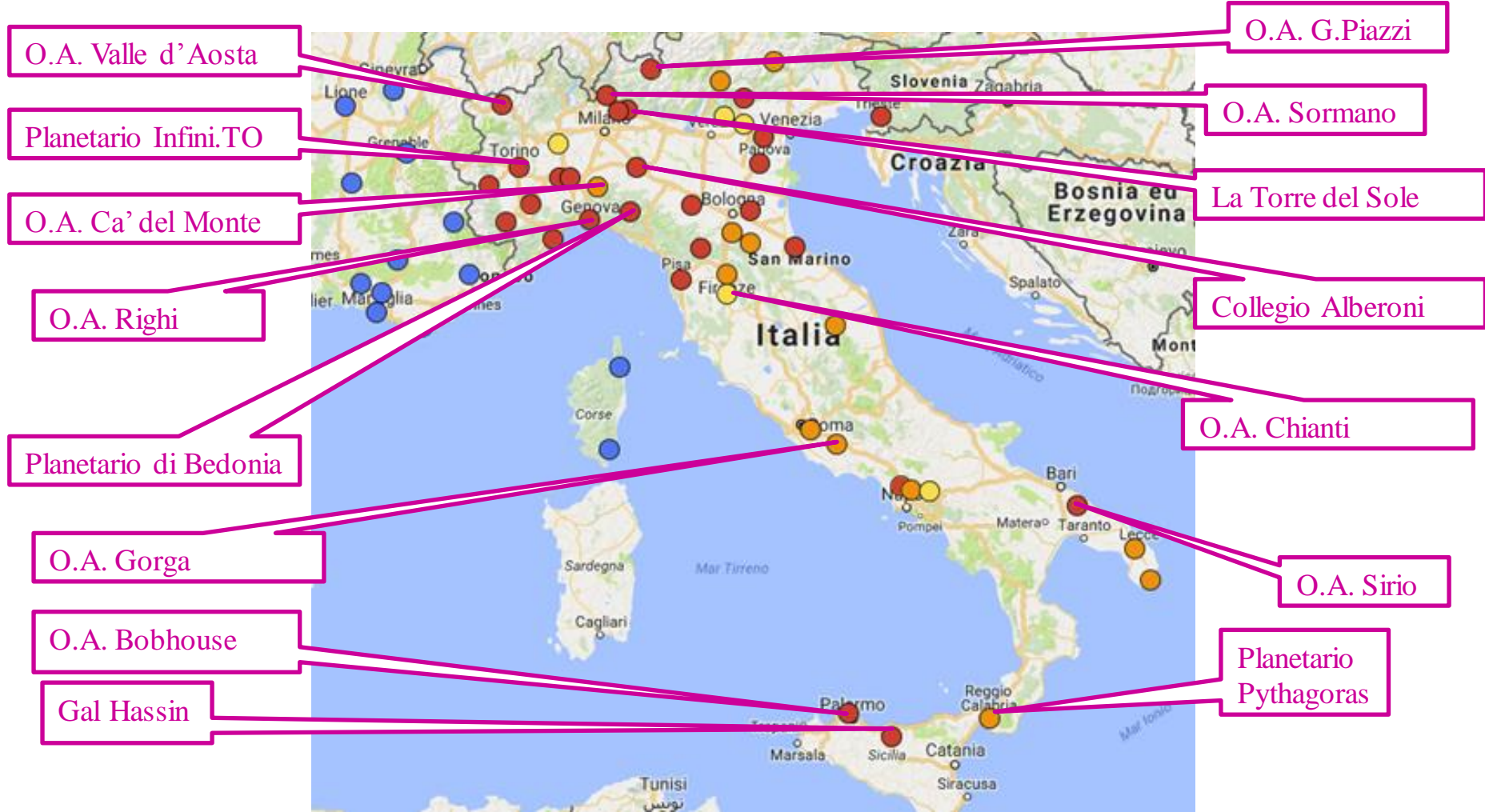


**27 cameras operative**  
**13 cameras being installed**  
**5 cameras being acquired**  
**1 radio receiver operative**

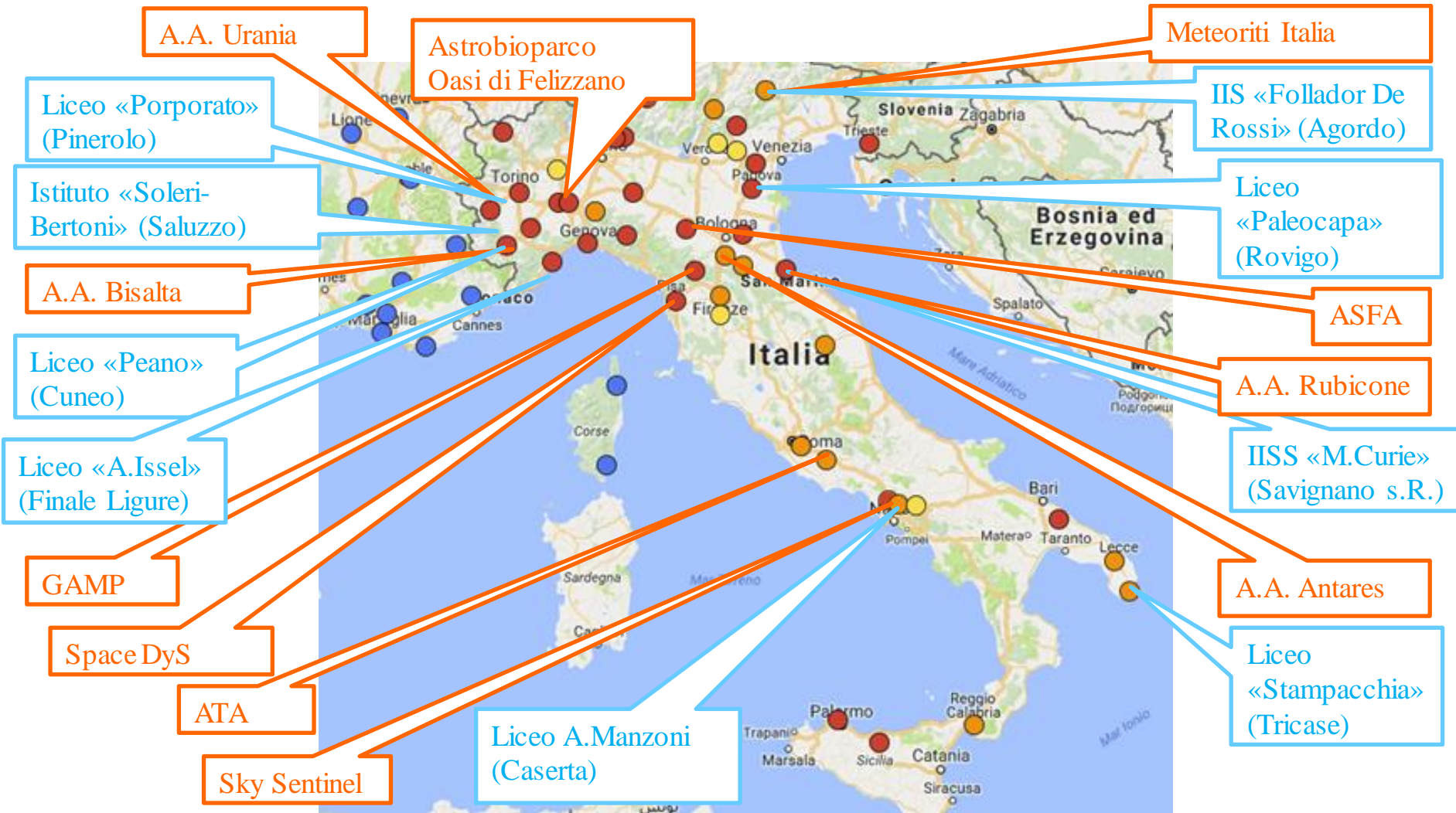
# Research institutes and Universities



# Other observatories and planetaria



# Associations and schools




# PRISMA website

**Prisma**  
Prima Rete per la Sorveglianza sistemica di Meteore e Atmosfera

[www.prisma.inaf.it](http://www.prisma.inaf.it)

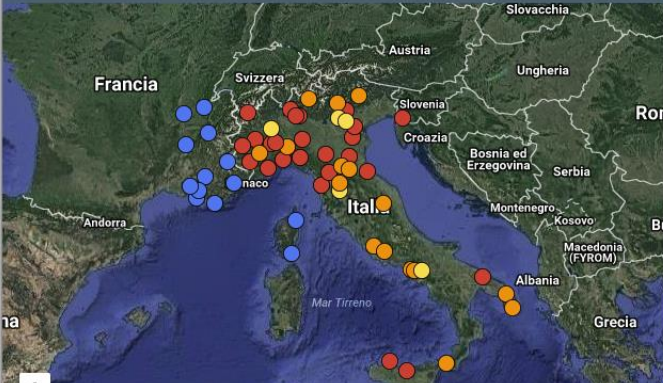
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HOME
APPUNTAMENTI
CHI SIAMO ▾
CREDITI
DIDATTICA
FIREBALL E BOLIDE
IL PROGETTO
IMMAGINI



### Le camere di PRISMA

rete PRISMA
🔍



### SEGNALA UN BOLIDE

Pensi di aver visto un bolide?  
[CLICCA QUI E FAI LA TUA SEGNALAZIONE!](#)

### PAGINE

- [Appuntamenti](#)
- [Chi siamo](#)
- [Crediti](#)
- [Didattica](#)
- [Fireball e bolide](#)
- [Il Progetto](#)
- [Immagini](#)

### NOTIZIE



# Educational activities in school



# Radio&TV

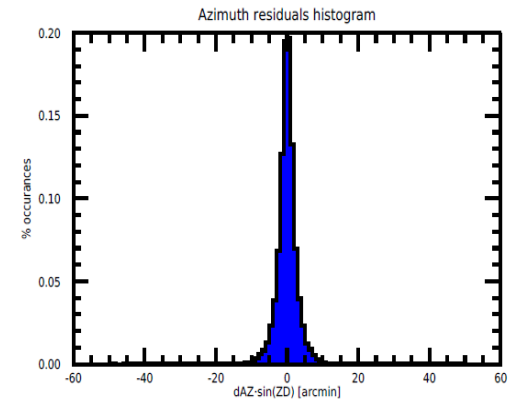
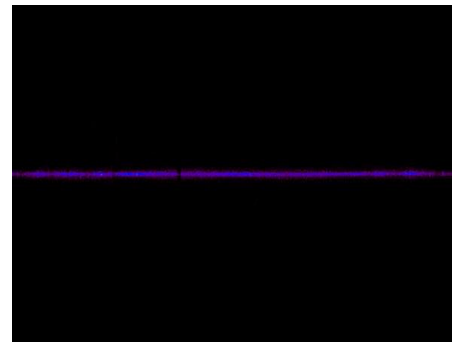
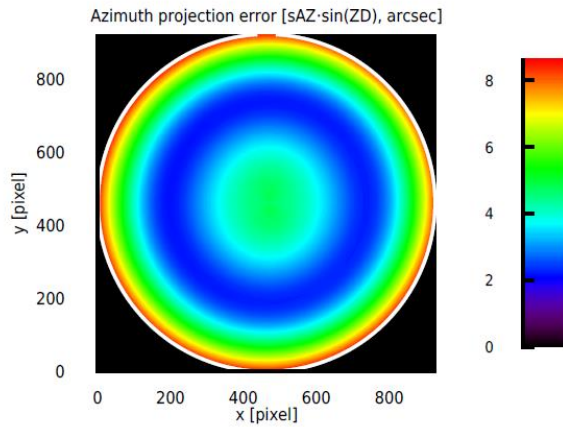
# Talks

# Newspapers

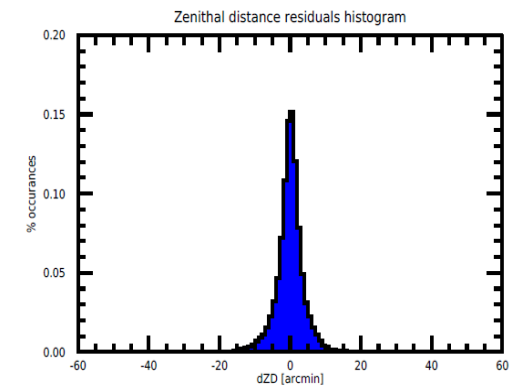
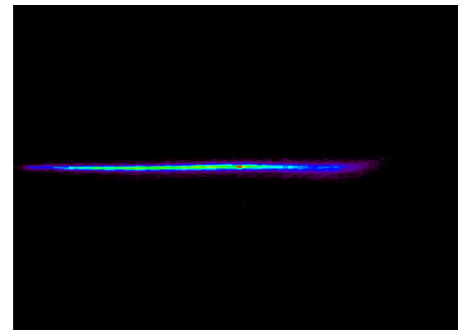
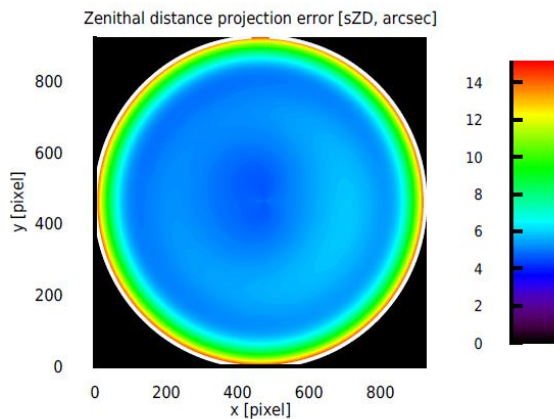


# Data reduction pipeline: Astrometric calibration

Az



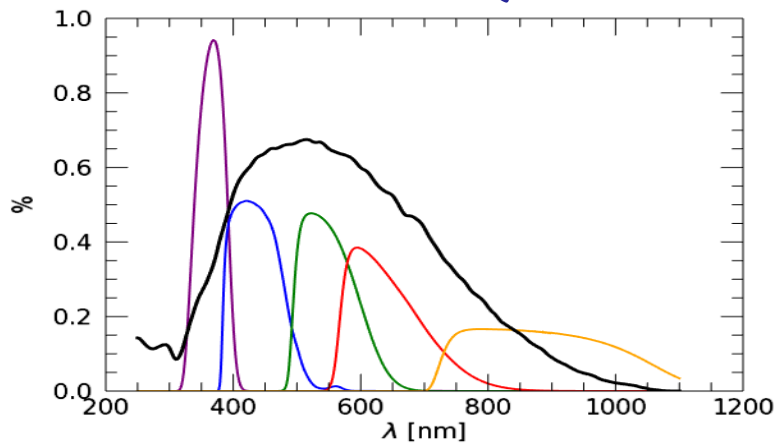
Zd



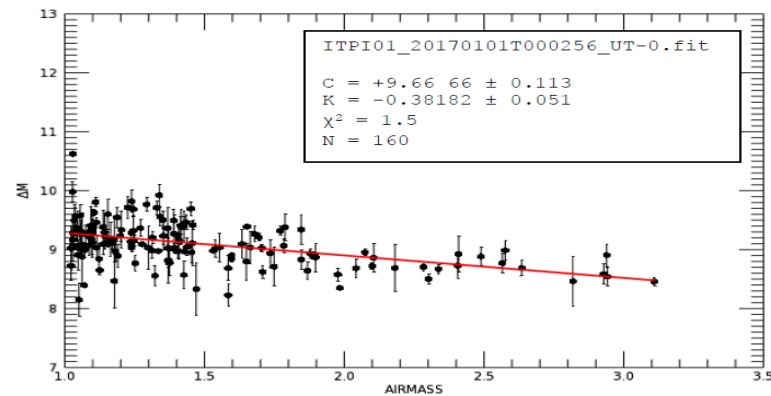
Cepolecha 1987 – Borovicka 1992, 1995

# Data reduction pipeline: Photometric calibration

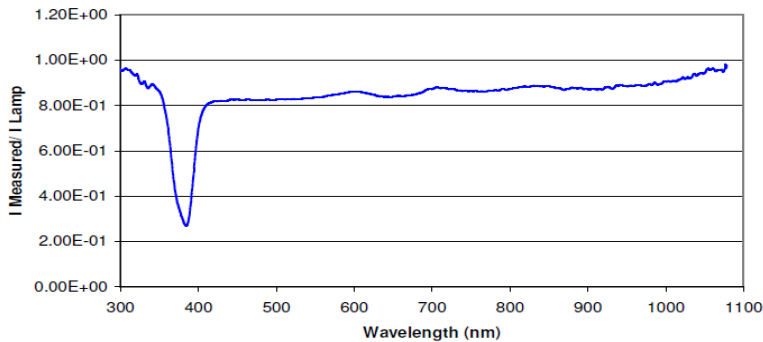
*CCD QE*



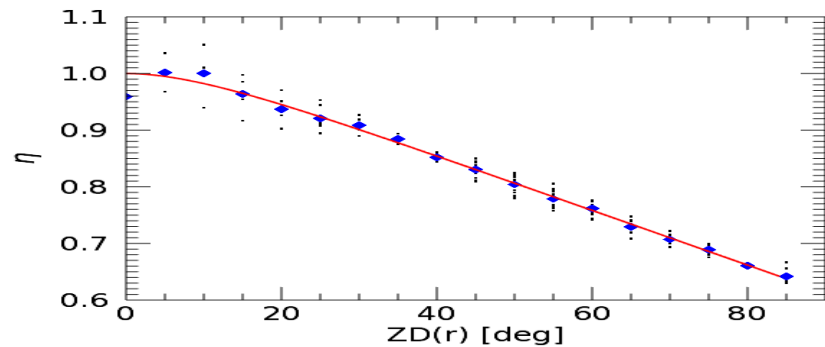
*zero point magnitude*



*dome transmission*



*sensitivity vs. zenith dist.*

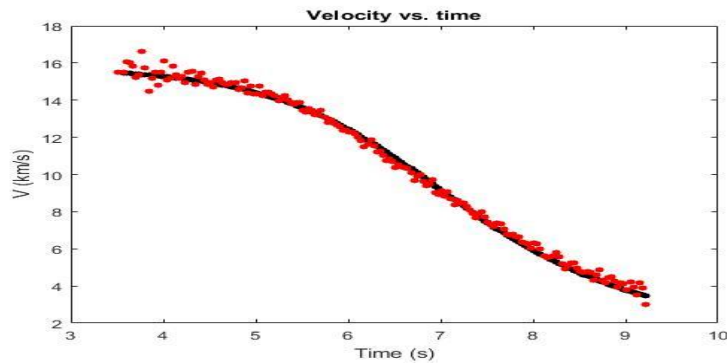


# Data reduction pipeline:

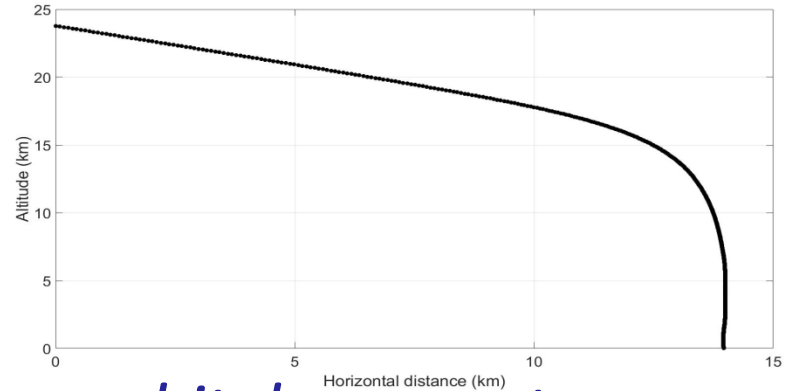
*trajectory*



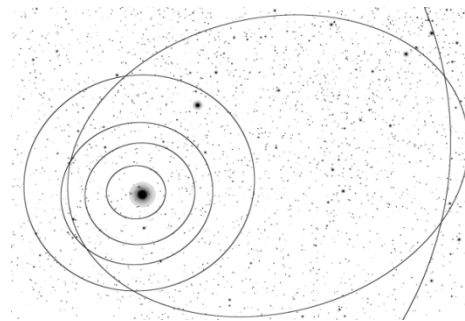
*dynamics*



*dark flight & strewn field*



*orbital parameters*

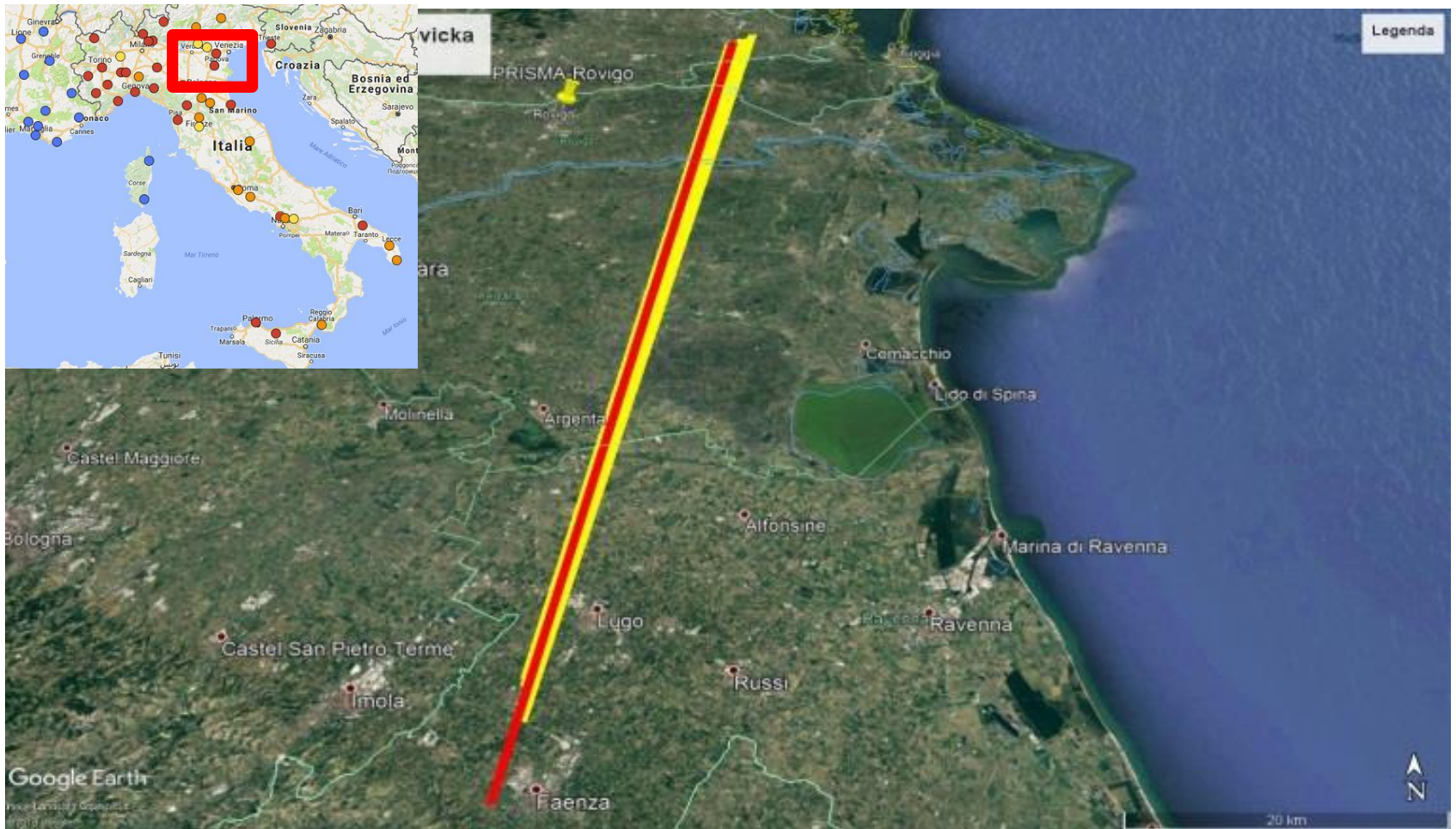


Ceplecha 1987, 1998– Borovicka 1990

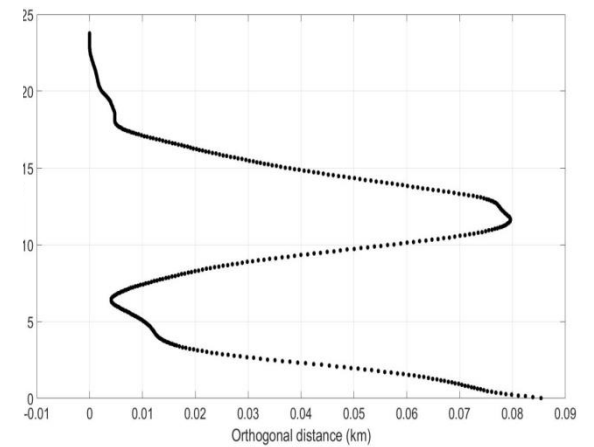
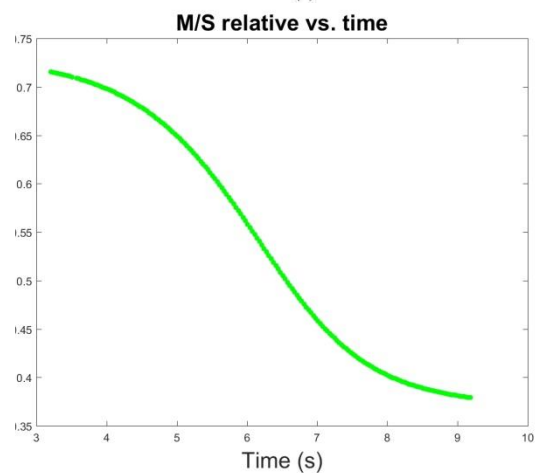
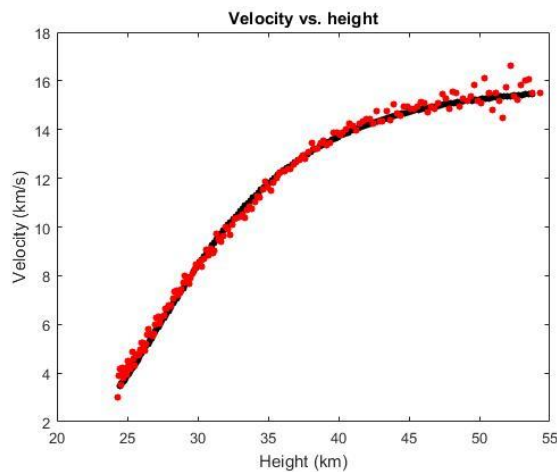
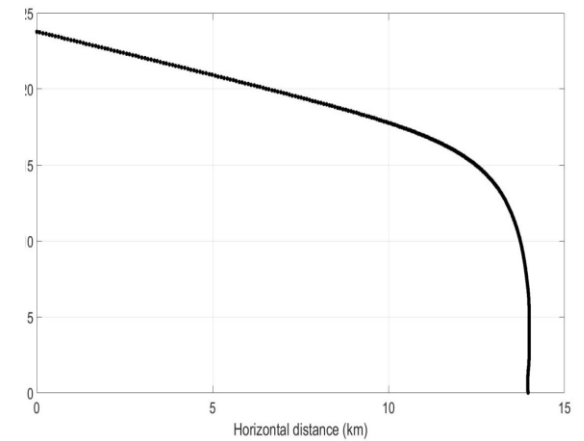
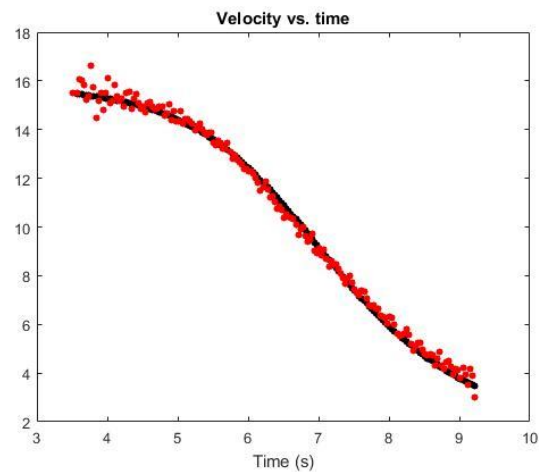
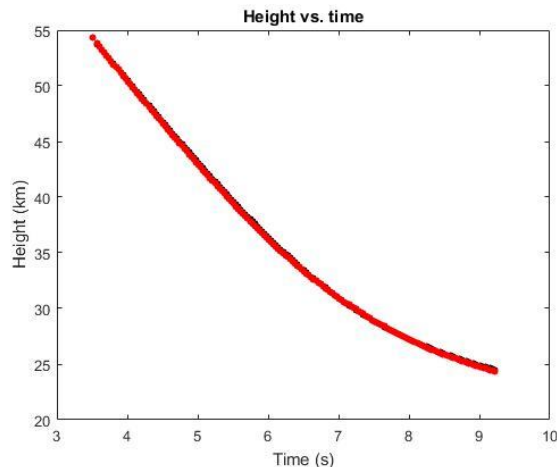
# Example 1 of 3: 30 May 2017 bolide



# 30 May 2017 bolide: Trajectory

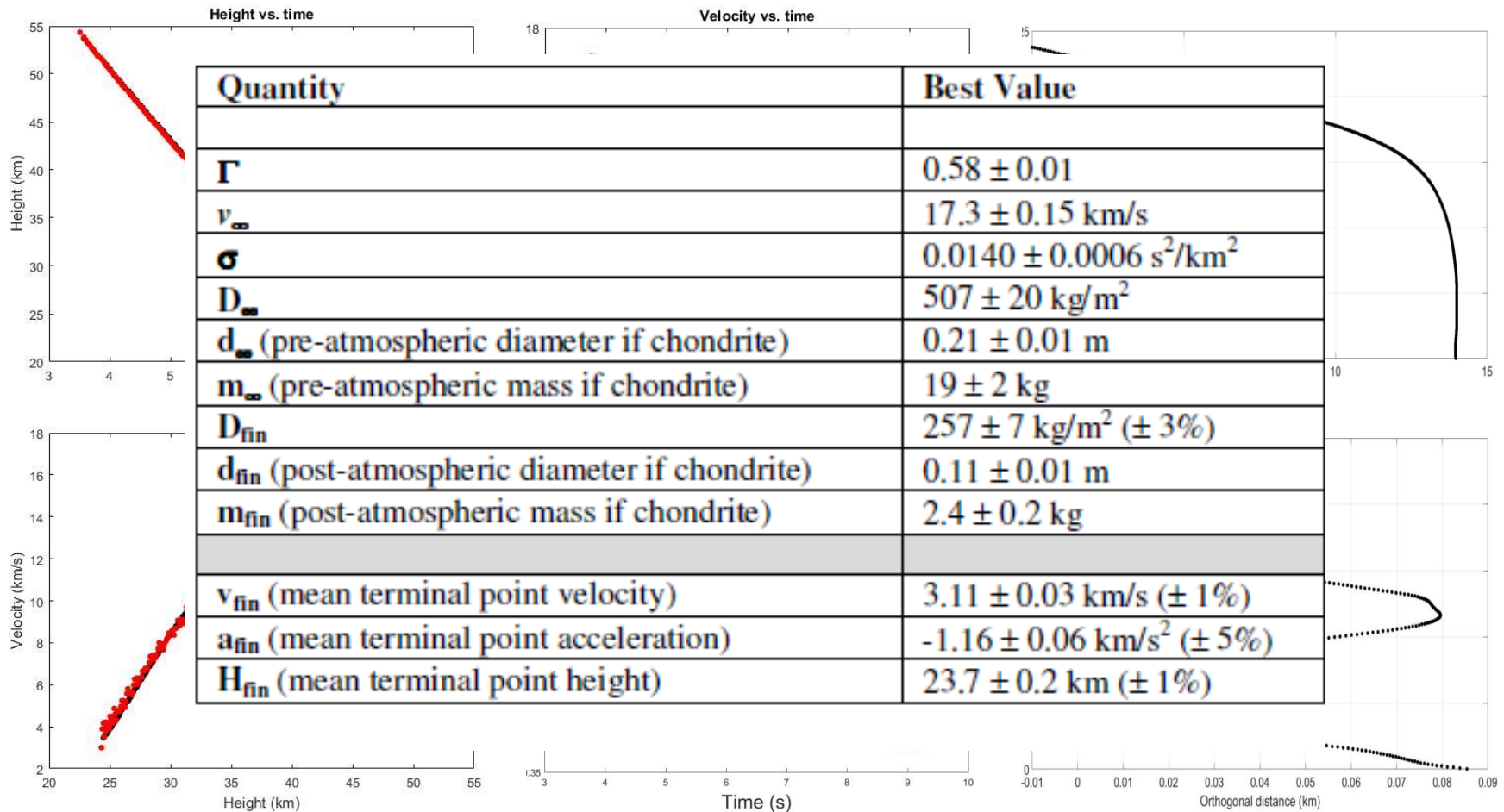


# 30 May 2017 – Dynamics & Dark flight



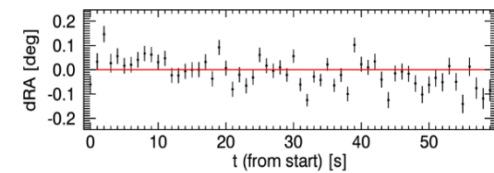
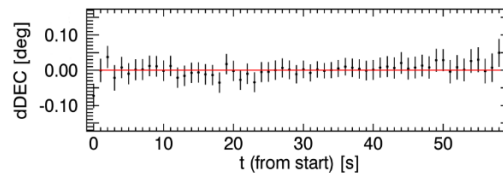
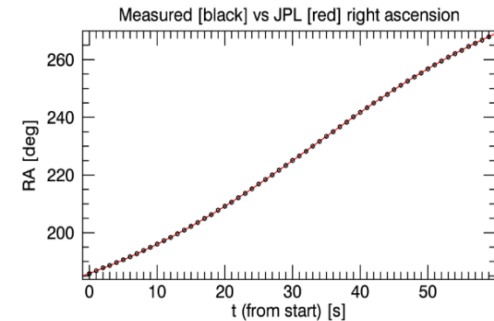
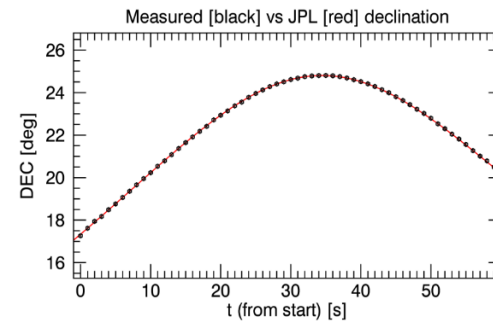
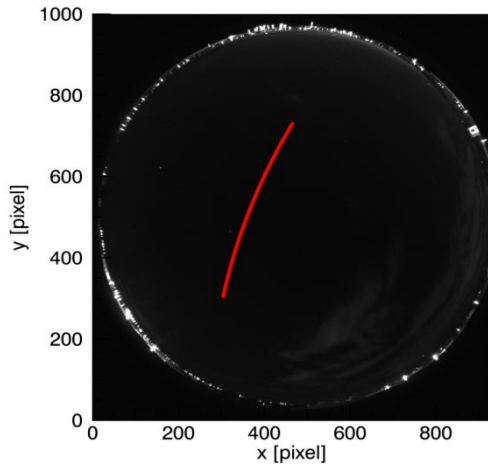
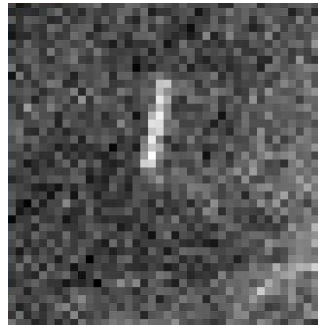
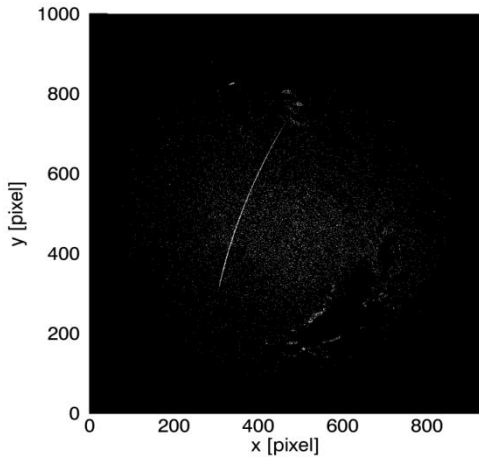


# 30 May 2017 – Dynamics & Dark flight

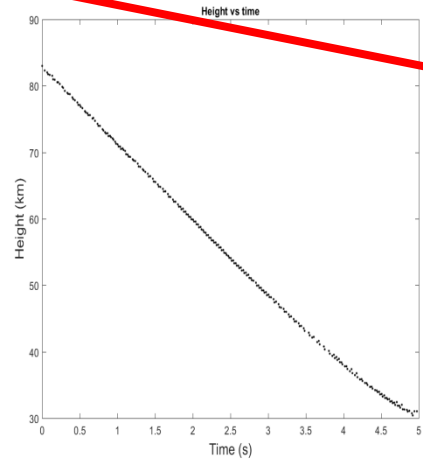
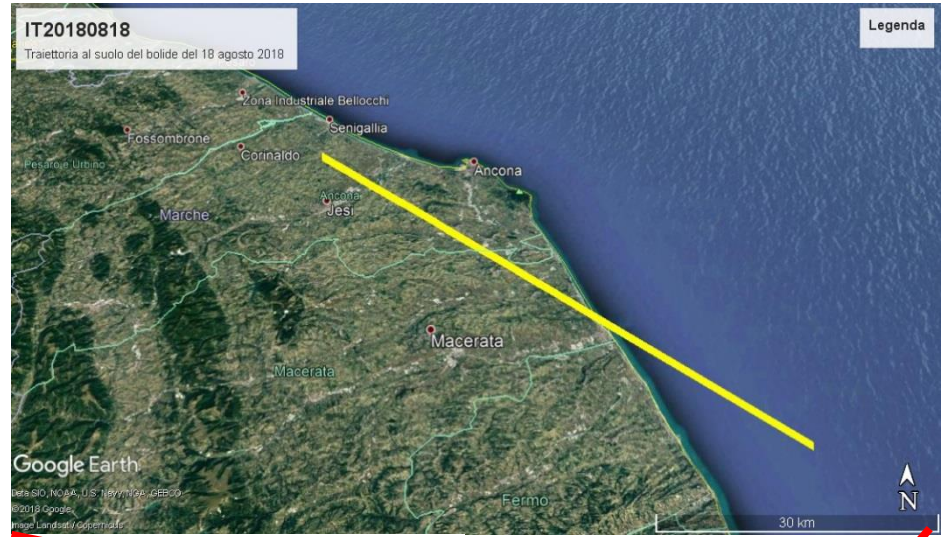
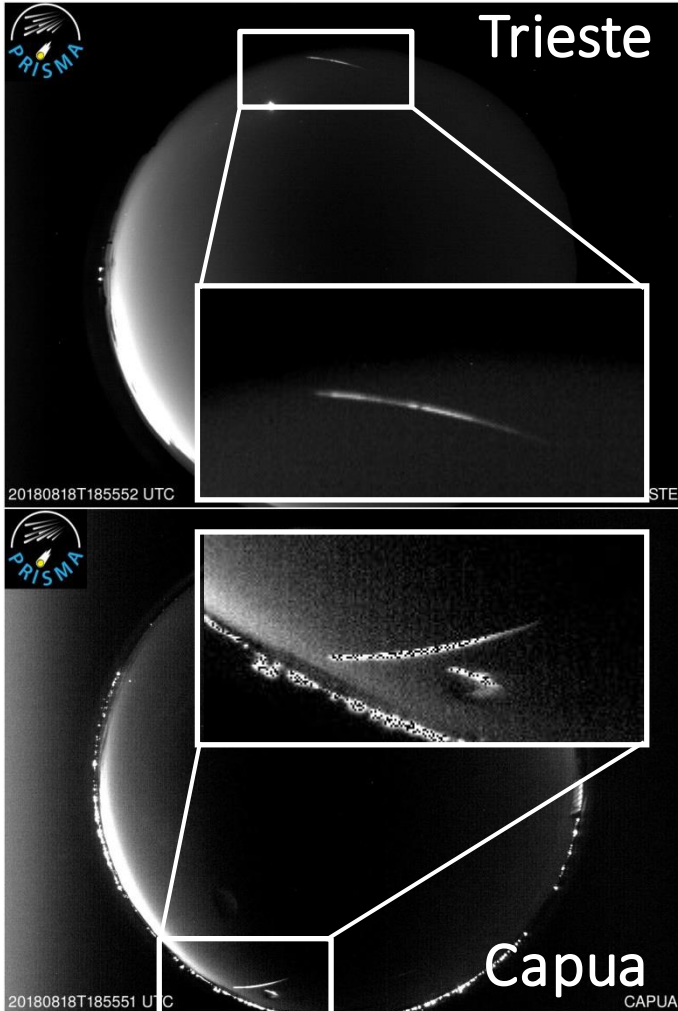




# Example 2 of 3: Tiangong 1 observations



# Example 3 of 3: 18 August 2018 bolide



# PRISMA & IMO: 18 August 2018 bolide



50% of the reports to IMO came from the PRISMA web site

[www.prisma.inaf](http://www.prisma.inaf)

[prisma\\_po@inaf.it](mailto:prisma_po@inaf.it)



*Thank you for your attention!*