SAGI summer school 2024

Tracking satellite with the optical telescope

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How to observe?

Information obtained:

• Azimuth, altitude

Observation conditions:

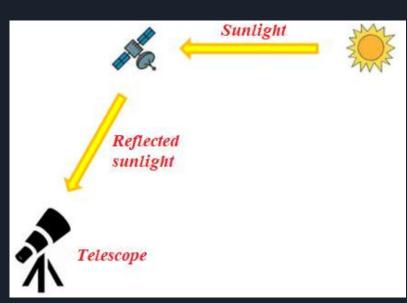
- At dusk to early night, at a certain angle to the sun
- Avoid to obscure by clouds, interference from ambient light

Observation ability:

- Even distant orbits
- Small objects

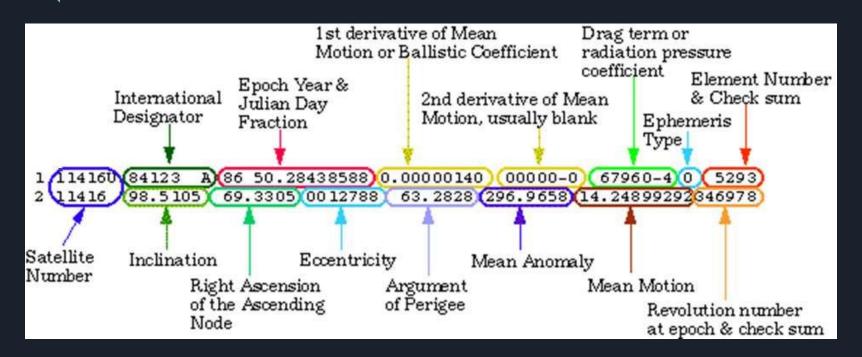
Cost:

Low



Two-line element set

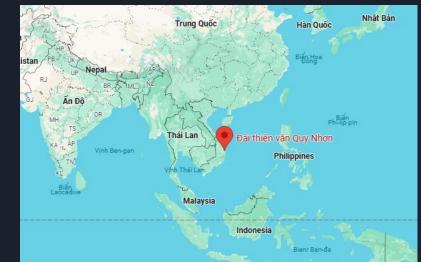
This is a data format encoding a list of orbital elements of an Earth-orbiting object for a given point in time.



Practice

The used devices:

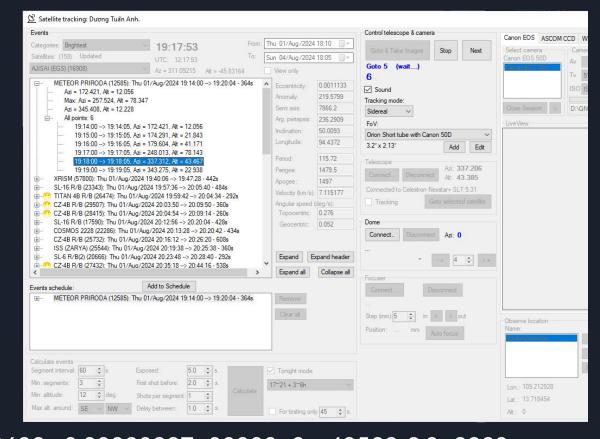
- NexStar SLT Computerized Mount, AltAz.
- Camera: Canon 50D with small telescope





Practice

The observed object: METEOR PRIRODA



1 12585U 81065A 24213.66542623 0.00020227 00000+0 48592-3 0 9990 2 12585 97.5431 244.2424 0007575 269.9152 90.1227 15.41348722352763

The first image

The second image

The third image



The fourth image



The fifth image

The sixth image





THANKS FOR WATCHING