

# Inter-Agency Space Debris Coordination Committee



**State Space Agency of Ukraine**



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## Status Report

**Dr. O. Kozhukhov**

IADC42

16-19/04/2024



# OPTICAL SENSORS OF SMAS



All SSAU optical sensors are operational.

Some optical sensors of other Ukrainian organizations (Odessa National University, Uzhhorod National University, Mykolaiv Astronomical Observatory) also work periodically. **Air alarms** are also added to the usual restrictions of observation conditions.

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# OPTICAL SENSORS OF SSAU IN 2023



## QOS "Sazhen-S", Khmelnytsky region



Operational (GEO, MEO, NEO, LEO)

## OEOS, type 1, Khmelnytsky region



Operational (GEO, MEO, NEO),  
Replacing mount servo controller

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# OPTICAL SENSORS OF SSAU IN 2023



## OEOS, type 2, Kyiv region



Operational (GEO, MEO, NEO, LEO),  
Additional alignment of the optics

## OEOS, type 3, Zakarpatska region



Operational (GEO, MEO, NEO, LEO),

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# SMAS 2023



**Decay messages – 152 for 591 space objects**

**Conjunction messages**

**Ukrainian SO – 80**

**Near-Earth SO with nuclear power unit – 162**

**Other separate SO – 111.**

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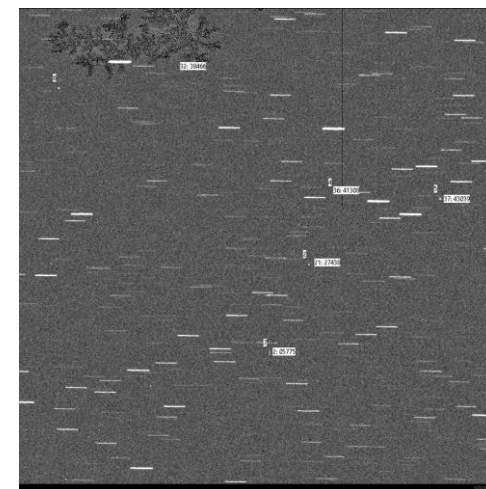
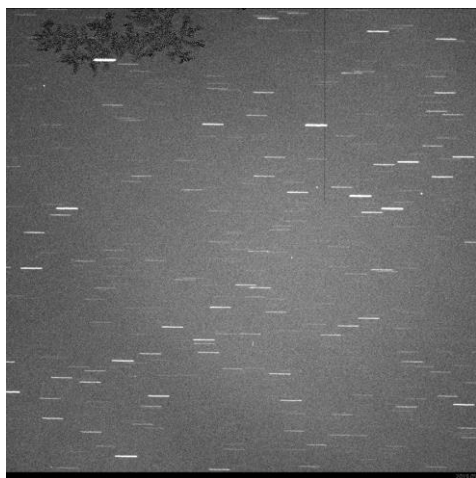
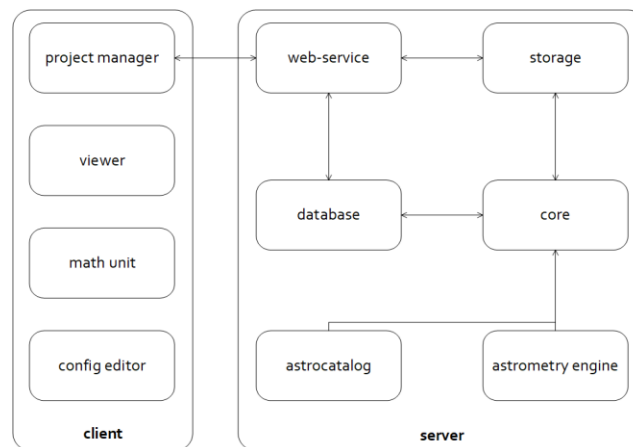
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# NEW SOFTWARE FOR OPTICAL OBSERVATIONS PROCESSING



## CPOSD - Centralized Processing of Optical Sensors Data



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# IADC ACTIVITIES



## IT34.1

Tracking part: 6 telescopes, 73 nights (some of them are “multi-telescope”), 411 astrometry tracks, more than 200 lightcurves from 4 telescopes.

Survey part: 1 telescope, 3 nights (not full), 12 objects detected, among them 2 unknown, 1 LEO, 3 MEO.

More details: in IT coordinator’s report

## PHOTOMETRICAL ANALYSIS OF LEO FAST ROTATORS

18340 – IT 41.2 “Exploitation of data acquired in AI38.2”

13552 - proactive (started as part of IT 39.2)

More details: in separate report

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# THANK YOU FOR YOUR ATTENTION!

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