



ASTEROIDEN IM SCHULUNTERRICHT

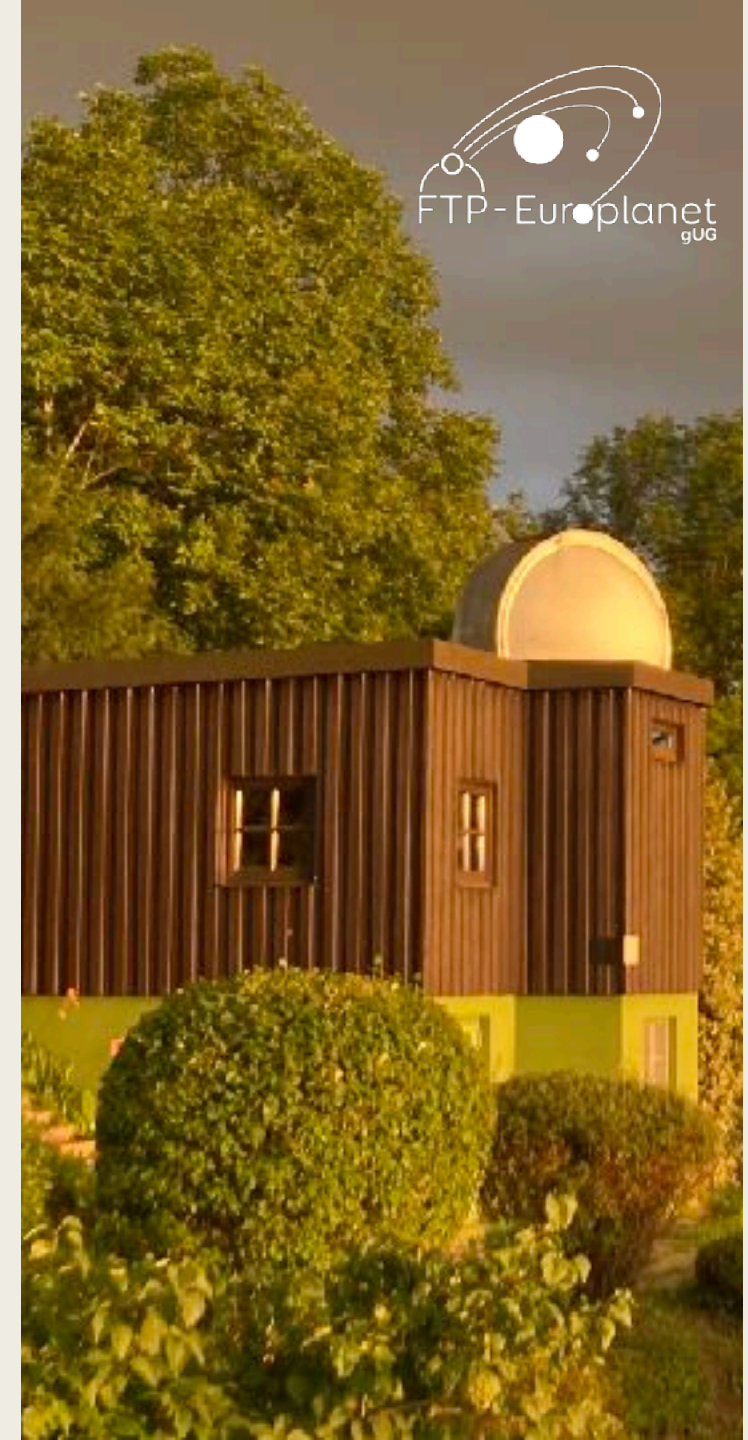
EIN RÜCKBLICK AUF DAS EU-PROJEKT STAND
(STUDENTS AS PLANETARY DEFENDERS)

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FTP-Europlanet gUG



FTP-Europlanet

- Gemeinnützigs Unternehmen
 - *Stellen Teleskope, Kameras*
 - *Betreiben Web-interfaces*
 - *Unterstützen Lehrkräfte*
- Partner:
 - *Dill Faulkes Educational Trust*
 - *The Schools Observatory*





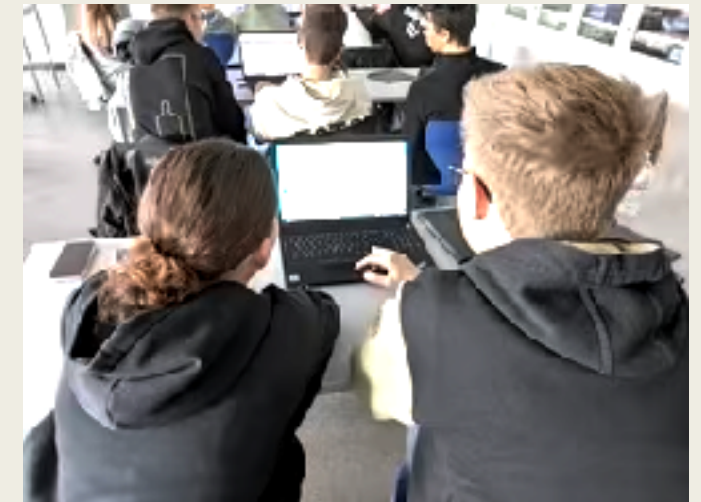
Zielgruppen

- Schüler (12–18 Jahre, Klassen 7–12)
- Lehrkräfte in MINT-Fächern und anderen Fachbereichen
- Förderung astronom. Projekte für Schüler (Jugend-Forscht,...)



Hauptaktivitäten

- Erstellung von Leitfäden („Teacher Manuals“) und Toolkits für Lehrkräfte
- Workshops zur Lehrkräftefortbildung
- Umsetzung im Unterricht & Schülerprojekte



Projekt StAnD

Die Projektpartner



ELLINOGERMANIKI
AGOGI

NUCLIO



Asteroiden-Beobachtung

- IASC / Pan-STARRS
- Faulkes Telescopes, LCO-Netzwerk
- The Schools Observatory





Keep Watch on Asteroids

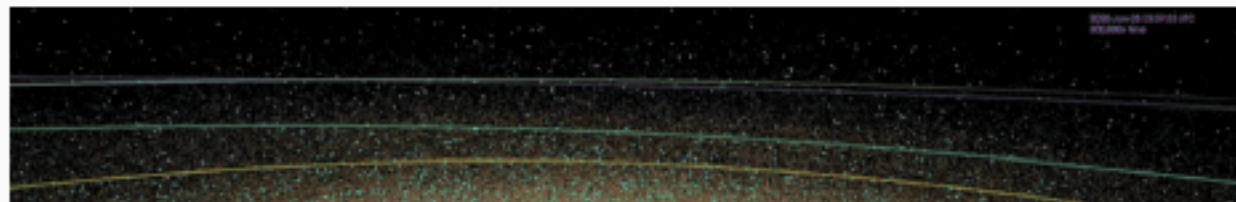
[Home](#) > [Things To Do](#) > [Keep Watch on Asteroids](#)

Asteroids are small, rocky objects that orbit the Sun. Most are located between the orbits of Mars and Jupiter. This area of our **Solar System** is known as the Asteroid Belt. However, the orbits of some asteroids bring them much closer to Earth. These are known as **Near Earth Objects** or NEOs.

Astronomers track NEOs in case they could be a **threat** to our planet in the future. In this project, you will learn how to identify an asteroid in a set of telescope images, use Go Observing to request observations of a NEO, and search the data to identify its position.

By the end of this activity you will:

- Know how to use image software to open, view and analyse data



By the end of this activity you will:

- Know how to use image software to open, view and analyse data
- Have used Go Observing to request observations of a NEO
- Have searched for asteroids yourself
- Have measured the positions of any NEOs you detect

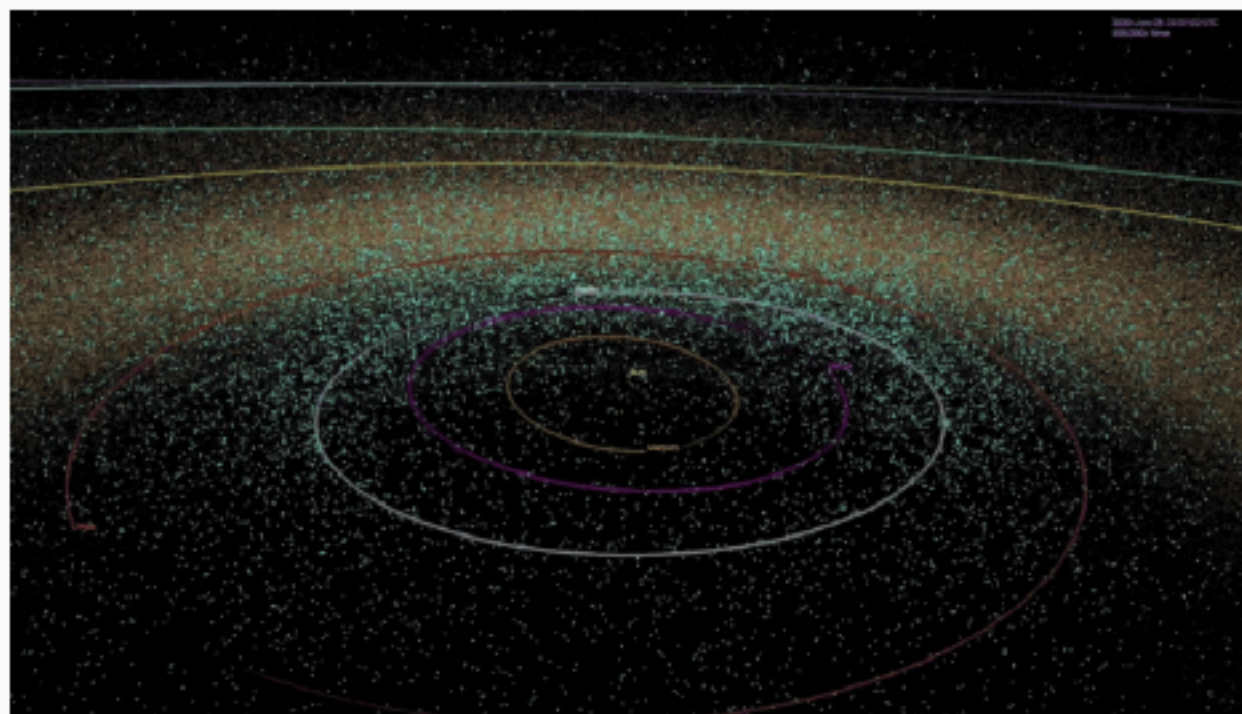
To complete this activity you will need:

- Access to [Go Observing](#) through your Schools' Observatory log in
- The [Asteroid Watch research project](#) webpages
- Online access to [AstroLab](#)
- The [example data](#) of asteroid 138205 (2000 EZ148)
- The [Asteroid Position Table](#)

Files or Documents:

[Asteroid Watch - 138205 \(2000 EZ148\) example data](#)

[Asteroid Watch Project - Asteroid Position Table](#)



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v1.0 Universal

A plot of 18,000 near Earth objects.

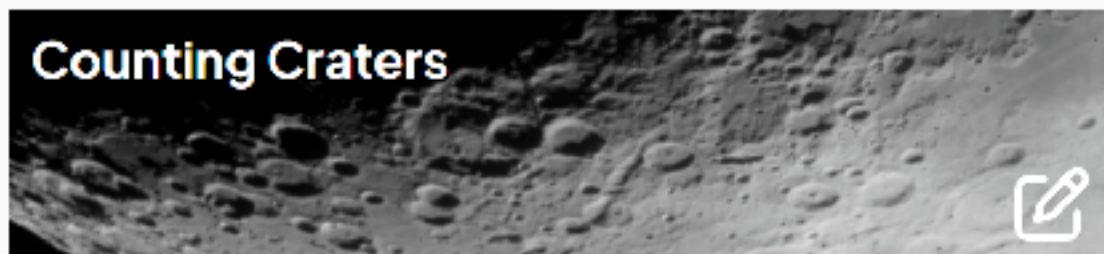
Go Observing

[Home](#) > [Go Observing](#)

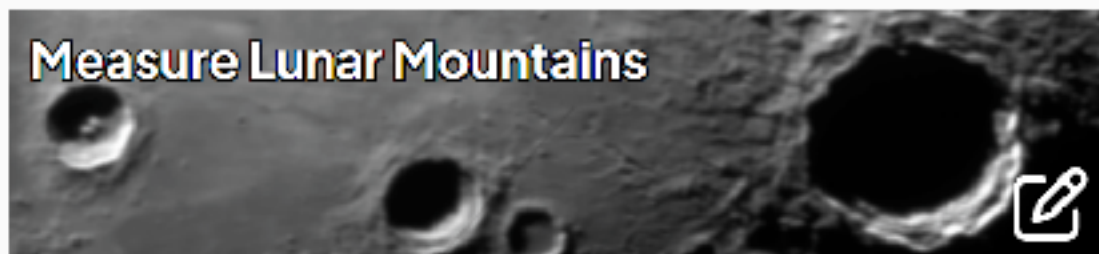
Request your own observations from a professional telescope.

To understand the Universe we must investigate it through observations, make measurements, and try and learn from the results.

Counting Craters



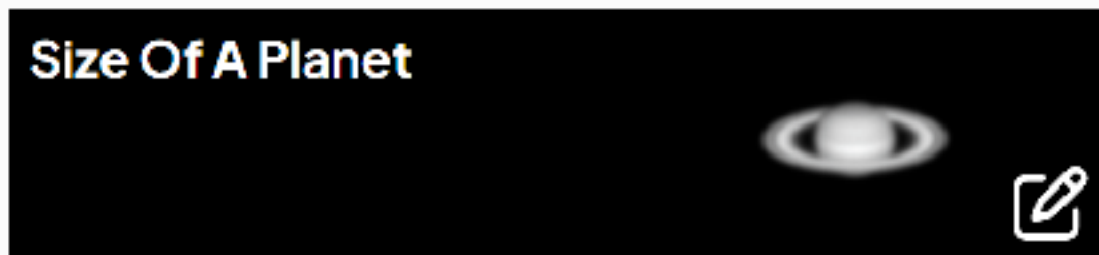
Measure Lunar Mountains



Search For Pluto



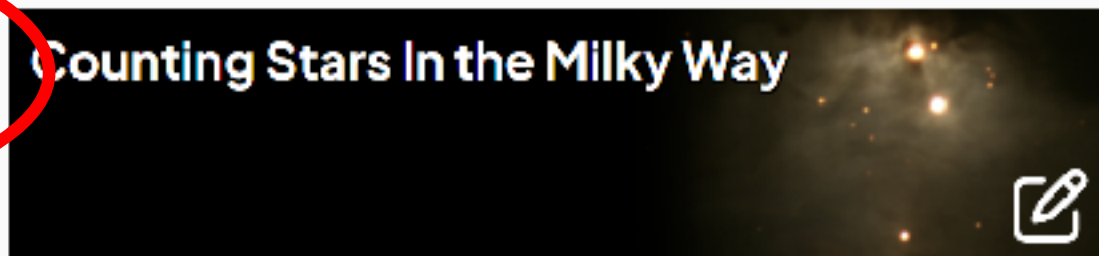
Size Of A Planet



Near-Earth Object Hunt

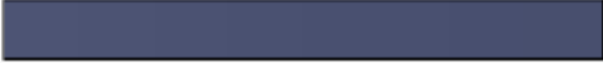
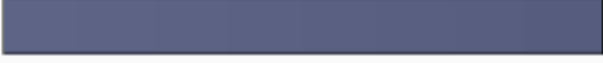


Counting Stars In the Milky Way



Select an object from the list below.

Use the  buttons to get more information about each object.

Objects		Classification	Jun 2026
			13 14 15 16 17 18 19
1943 Anteros		An Asteroid	
320P/McNaught		A Comet	
433 Eros		An Asteroid	
152637 (1997 NC1)		An Asteroid	
4183 Cuno		An Asteroid	
1980 Tezcatlipoca		An Asteroid	
1036 Ganymed		An Asteroid	



First observation.

- Instrument: QHY600 (Centre)
- Filter: r'
- Exposure time: 120 seconds

Second observation.

- Instrument: QHY600 (Centre)
- Filter: r'
- Exposure time: 120 seconds

Third observation.

- Instrument: QHY600 (Centre)
- Filter: r'
- Exposure time: 120 seconds

Fourth observation.

- Instrument: QHY600 (Centre)
- Filter: r'
- Exposure time: 120 seconds



13 14 15 16 17 18 19
Jun 2026

ASTROLAB NOVA: 34828B002.FITS

 File  Display  Colour  Astro  Help



THE SCHOOLS'
OBSERVATORY



Pixel position:

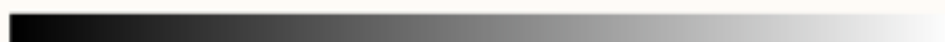
(1462, 1473)

Pixel value:

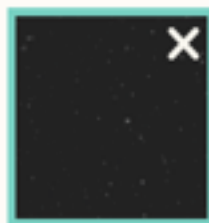
3542.0 counts

Sky coordinates:

04:32:36.1,
+07:12:29.9
(J2000)



51 151 354 756 1565 3165 6349 12771 25464



Measure Position



Selected position: **1467, 1467**

Centroided position: **1460.4, 1473.1**

Sky Coordinate: **04:32:36.2, +07:12:30.3 (J2000)**

Bilderwettbewerb



Beobachtung von Meteoren



[prisma-web](https://prismavpn.oats.inaf.it/)

<https://prismavpn.oats.inaf.it/>



Willkommen
admin

Benutzer

Containerstatus

Freeware-Konfiguration

Configurazione IP

Wartung

Kalibrierungen

Stack

Detektionen

80



Detektionen von der Station
erkannt

2



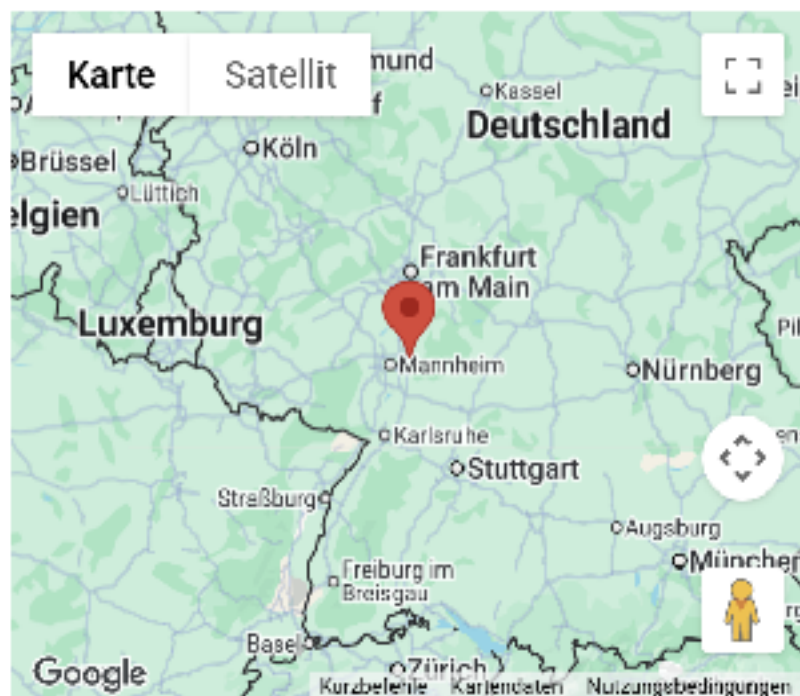
Detektionen im aktuellen
Monat

0



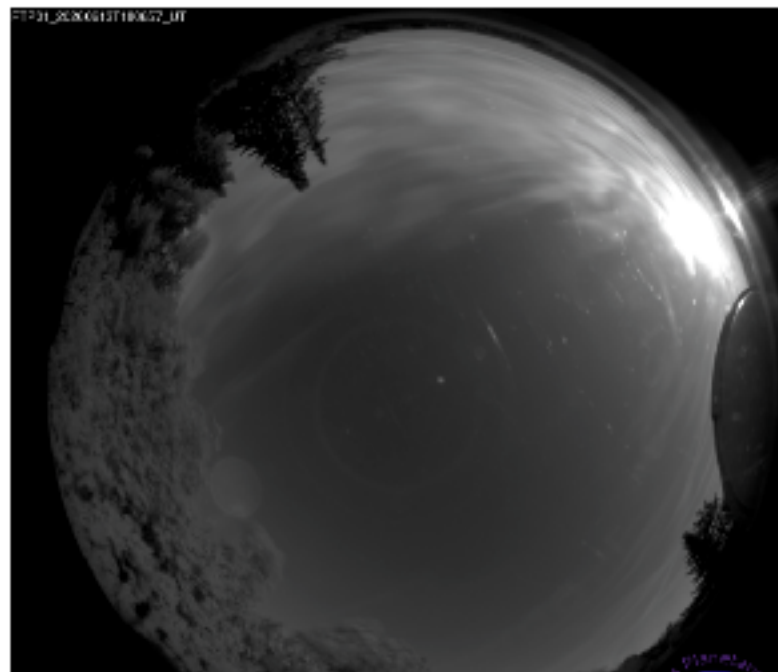
Heutige Detektionen

Station Geolokalisierung



Letztes erfasstes Bild

Stack del 2026-06-13 (18:06:57)



Willkommen

admin

 Benutzer

 Containerstatus

 Freeture-Konfiguration

 Configurazione IP

 Wartung

 Kalibrierungen

 Stack

 Detektionen

Heutige Detektionen

Vorschau aktivieren ☐

Name	Uhrzeit	Vorschau	DirMap	GeMap	Video	Zip
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Kein Ergebnis

Zeige Seite 0 von 0 Elementen

Zurück Weiter

Stato configurazione

Gefundene Fehler:

Keine Fehler gefunden

Statusnachrichten:

Maske vorhanden

Internetverbindung hergestellt

Konfigurationsdatei vorhanden

Container freeture: n3srl/freeture15

VPN-Status:

VPN Aktiv

IP: 10.8.0.40

VPN-Zugang als PRISMA

Stato camera

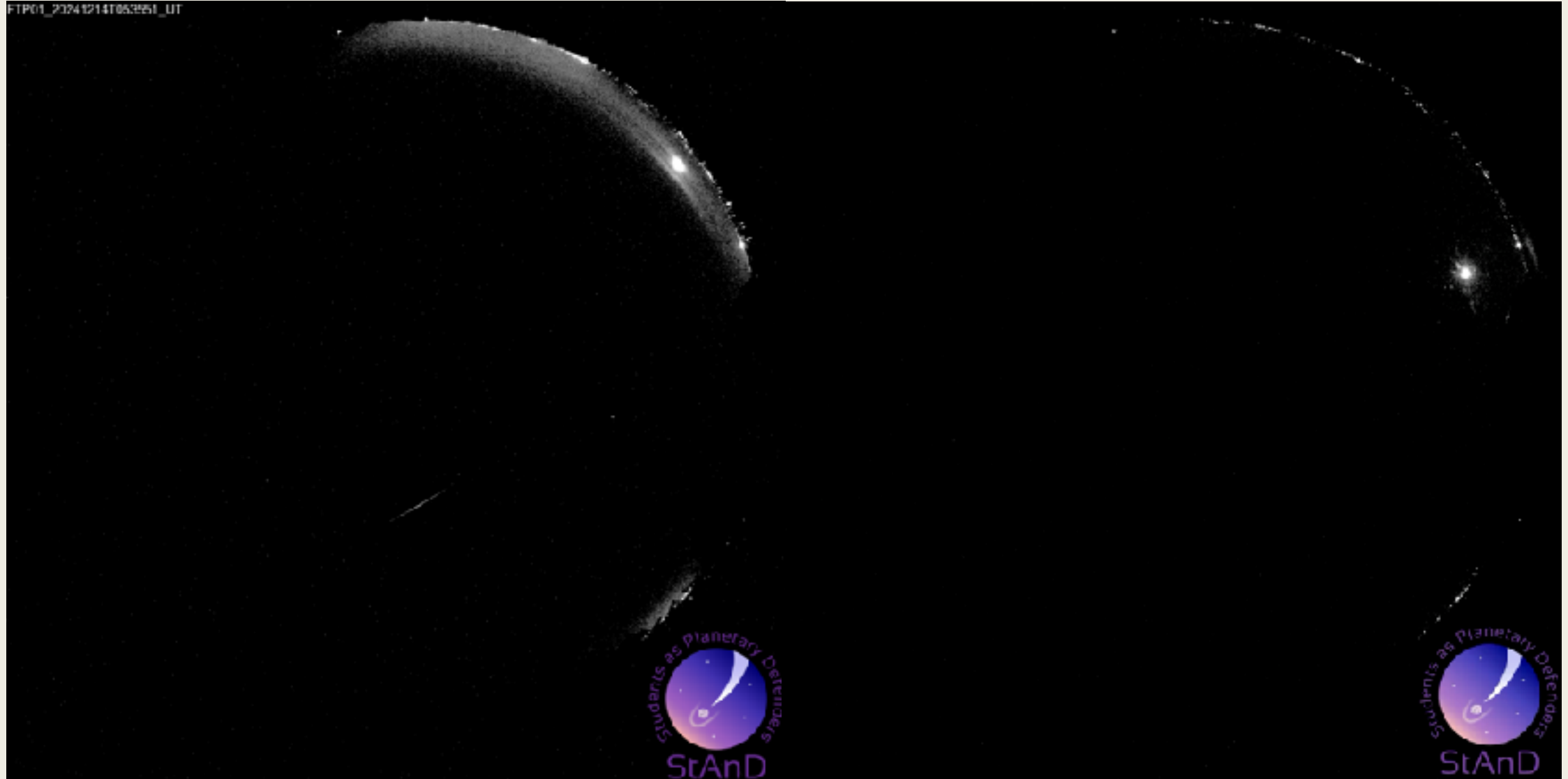
Camera connessa 30.0 fps



39.0 °C

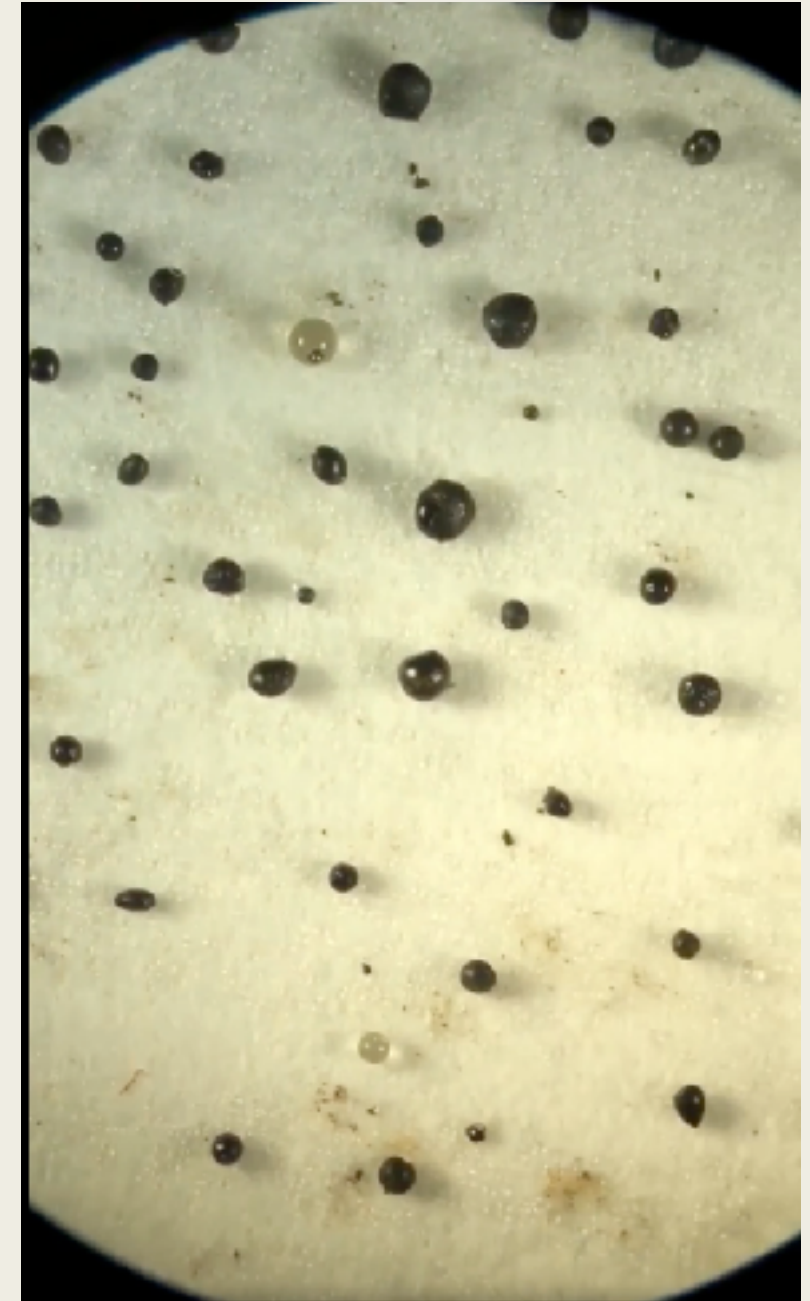
Soglia 60°C + 5 - Policy 50°C + 5 - PRISMA_PRIORITY

Beobachtung von Meteoren



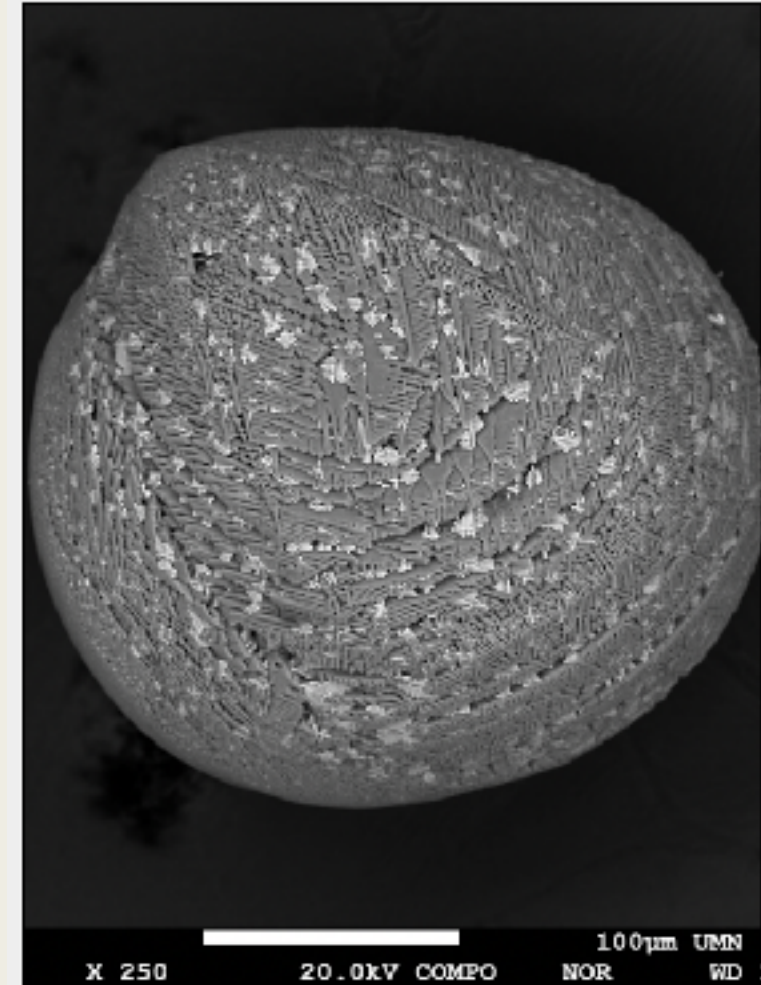
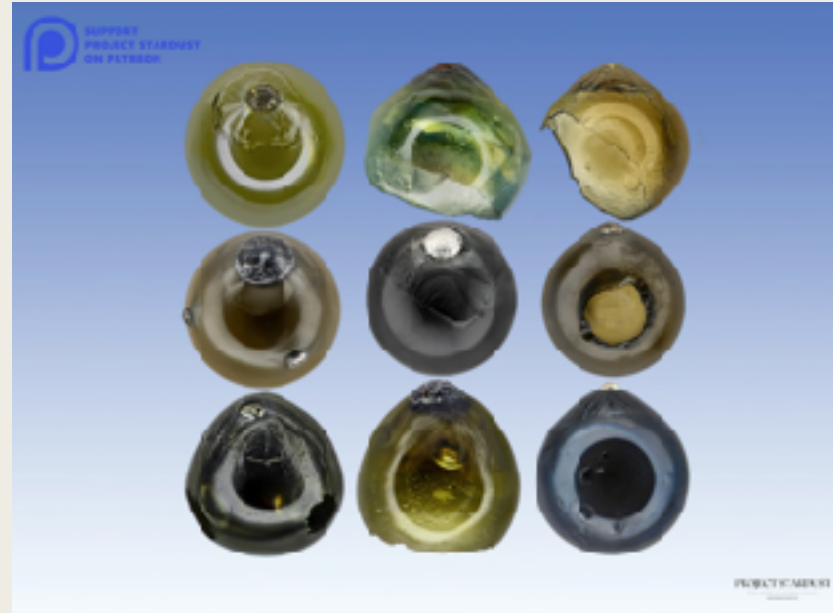
Mikrometeoriten-Kit

(1x pro Land, zu verleihen an Schulen)



Mikrometeoriten-Kit

(1x pro Land, zu verleihen an Schulen)



DANKE

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