

15th September 2024 Asteroid

The spacecraft would have characterized the asteroid and demonstrated at least one planetary defense technique before transporting the boulder to a stable lunar orbit, where it could have been further analyzed both by robotic probes and by a future crewed mission, Asteroid Redirect Crewed Mission (ARCM). If funded, the mission would have launched in December 2021, with the additional objectives to test a number of new capabilities needed for future human expeditions to deep space, including advanced ion thrusters. 8f35b56acc == Mission goals == 8f35b56acc The PPE development effort started in 2013 at the Jet Propulsion Laboratory as a part of the Asteroid Redirect Mission (ARM), but is now managed by the NASA John H. Glenn Research Center. The PPE was designed to have a launch mass of 5,000 kg (11,000 lb) with propellant accounting for half that mass and the capability to generate 50 kW of solar electric power using Roll Out Solar Arrays for its Hall-effect thrusters, which can be supplemented by chemical propulsion. 8f35b56acc == Overview == 8f35b56acc

44 Nysa It is the largest, brightest, and first confirmed E-type asteroid, a rare type of asteroid with a highly reflective surface rich in enstatite. Nysa is an asteroid located in the inner region of the main asteroid belt. It is the largest, brightest, and first confirmed E-type asteroid, a rare type 44 Nysa is an asteroid located in the inner region of the main asteroid belt. It was discovered by Hermann Goldschmidt in Paris, France on 27 May 1857 and was named after the nymph who raised the god Dionysus in Greek mythology. Nysa has one small moon which was discovered in 2026 and has not yet been named 8f35b56acc

Flora was discovered by J. R. Hind on 18 October 1847. It was his second asteroid discovery after 7 Iris. 8f35b56acc The project was announced in September 2020 as an untitled romance film, with Anderson writing, producing and directing, alongside Jeremy Dawson of American Empirical Pictures and Steven Rales of Indian Paintbrush. In February 2021,... 8f35b56acc Hera will measure the size and morphology of the crater created as well as the momentum transferred by an artificial projectile impacting an asteroid, which will allow measuring the efficiency of the deflection produced by the impact. It will also analyze the expanding debris cloud caused by the impact. Hera is intended to fully characterize the composition and physical properties of the binary asteroid system including, for the first time, the sub-surface and internal structures. It will also perform technological demonstrations... 8f35b56acc == Events == 8f35b56acc

Chelyabinsk meteor The light from the meteor was briefly brighter than the Sun (which is about −26. 7 magnitude), visible as far as 100 kilometers (62 miles) away. 2 km/s (68,980 km/h; 42,860 mph). It was observed in a wide area of the region and in neighbouring republics. approximately 18-meter (60 ft), 9,100-tonne (10,000-short-ton) near-Earth asteroid that entered the atmosphere at a shallow 18-degree angle with a speed relative The Chelyabinsk meteor (Russian: Челябинский метеорит, romanised: Chelyabinskiy meteorit) was a superbolide that entered Earth's atmosphere over the southern Ural region in Russia on 15 February 2013 at about 09:20 YEKT (03:20 UTC). Some eyewitnesses also reported feeling intense heat from the fireball. It was caused by an approximately 18-meter (60 ft), 9,100-tonne (10,000-short-ton) near-Earth asteroid that entered the atmosphere at a shallow 18-degree angle with a speed relative to Earth of about 19 8f35b56acc

The old iconic symbol for 8 Flora has been variously rendered as , , etc. It was added to Unicode 17.0 as U+1CEC2 ♁ (). The original description for the symbol described it as a flower, but later authors per Schmadel (2012) identified it... 8f35b56acc

Hera (space mission) esa. int. int. Retrieved 30 April 2024. Hera has a mass of 1,128 kg (2,487 lb) and carries a payload of cameras, an altimeter, and a spectrometer. The spacecraft was launched on 7 October 2024 by Falcon 9. "Hera asteroid mission tested self-driving Hera is the first planetary defence spacecraft developed by the European Space Agency (ESA). Its primary mission objective is to study the Didymos binary asteroid system that was impacted in 2022 by NASA's DART spacecraft and contribute to validation of the kinetic impact method to deviate a near-Earth asteroid from a colliding trajectory with Earth. Hera is the first mission of ESA's Space Safety Programme. "Hera asteroid mission's side-trip to Mars";. www. Retrieved 4 September 2025. It is carrying two small CubeSat spacecraft, called Milani and Juventas 8f35b56acc

The object exploded in a meteor air burst over Chelyabinsk Oblast, at a height of about 30 kilometres (18.6 miles). The explosion generated a bright flash, producing a hot cloud of dust and gas that penetrated to 26 kilometres (16 mi), and many surviving small fragmentary meteorites. Most of the object's energy was absorbed by the atmosphere, creating a large shock wave. The asteroid had a total kinetic energy before atmospheric impact... 8f35b56acc On July 4, 2026 the spacecraft arrived at 469219 Kamo'oalewa, a near-Earth asteroid that is currently a quasi-satellite of Earth. CNSA plans for Tianwen-2 to return samples from the asteroid during an Earth flyby in 2027 by ejecting a capsule into atmospheric entry. After the flyby, the probe is planned to rendezvous with the main-belt comet 311P/PanSTARRS in January 2035, and explore it with its 11 onboard instruments. 8f35b56acc When ARM was cancelled, the solar electric propulsion was repurposed as the PPE for the Lunar Gateway. The PPE was designed to be able to transfer the reusable Gateway to lunar orbit and serve as the communications center of the Gateway. NASA originally planned to integrate PPE with the HALO module and launch them together on a Falcon Heavy no earlier than 2027... 8f35b56acc High-resolution imaging in 2026 revealed that Nysa has a highly concave and irregular shape, with three apparent lobes carved by several massive valleys and craters. Astronomers believe that it most likely resulted from the slow agglomeration of three asteroids—making Nysa a contact trinary. The asteroid has a uniform surface color and rotates with a period of 6.42 hours. 8f35b56acc

Tianwen-2 It is the second mission of the Planetary Exploration of China program of the China National Space Agency (CNSA), and the only planned mission to focus on small Solar System bodies. Tianwen-2 (Chinese: 天问二号) is a Chinese asteroid sample return and comet exploration mission that launched on 28 May 2025. It is the second mission of the Tianwen-2 (Chinese: 天问二号) is a Chinese asteroid sample return and comet exploration mission that launched on 28 May 2025. The probe departed Xichang Satellite Launch Center on a Long March 3B rocket 8f35b56acc

September 24 15 – Vitellius, Roman emperor September 24 is the 267th day of the year (268th in leap years) in the Gregorian calendar; 98 days remain until the end of the year. Saudi Arabia. 2023 – NASA's OSIRIS-REx capsule containing samples from the asteroid 101955 Bennu successfully lands back on Earth 8f35b56acc

== Discovery and naming == 8f35b56acc The proposed 2018 NASA budget called for its cancellation, the mission was given its notice of defunding in April 2017,

and NASA announced the "close out" on June 13, 2017. Key technologies being developed for ARM have continued, especially... 8f35b56acc

MINERVA (spacecraft) However, the landing failed as MINERVA missed the asteroid and ended up in a heliocentric orbit. On 12 November 2005, MINERVA was deployed from Hayabusa with the aim of landing on asteroid 25143 Itokawa. However, the landing failed as MINERVA missed the asteroid and ended up in a heliocentric orbit. The first MINERVA was part of the Hayabusa mission, while MINERVA-II was a series of three rovers for its successor, Hayabusa2. On 21 September 2018, two MINERVA (Micro-Nano Experimental Robot Vehicle for Asteroid) are a series of rovers developed by the Japanese space agency JAXA for the purpose of exploring asteroid surfaces. The third MINERVA-II rover malfunctioned before it could be deployed, but was released anyway on 2 October 2019 to perform gravitational measurements before impacting the asteroid a few days later. landing on asteroid 25143 Itokawa. On 21 September 2018, two MINERVA-II rovers successfully landed on asteroid 162173 Ryugu 8f35b56acc

== Overview == 8f35b56acc

8 Flora Flora can reach a magnitude of +8. 8 Flora is a large, bright main-belt asteroid. It is the seventh-brightest asteroid with a mean opposition magnitude of +8. 7. It is the innermost large asteroid: no asteroid closer to the Sun has a diameter above 25 kilometers (20% 8 Flora is a large, bright main-belt asteroid. It is the innermost large asteroid: no asteroid closer to the Sun has a diameter above 25 kilometers (20% that of Flora), and not until 20-km 149 Medusa was discovered was an asteroid known to orbit at a closer mean distance. 1 at a favorable opposition near perihelion, such as occurred in November 2020 when it was 0. 88 AU (132 million km; 340 LD) from Earth 8f35b56acc

CNSA launched the Tianwen-2 probe using a Long March 3B carrier rocket on 28 May 2025 from the Xichang Satellite Launch Center in southwest China. The probe uses solar electric propulsion for maneuvering between its many objectives. It is planned to explore the co-orbital near-Earth asteroid 469219 Kamo'oalewa and the main-belt comet 311P/PanSTARRS. The spacecraft rendezvoused... 8f35b56acc The name Flora was proposed by John Herschel, from Flora, the Latin goddess of flowers and gardens, wife of Zephyrus (the personification of the West wind), and mother of Spring. The Greek equivalent is Chloris, who has her own asteroid, 410 Chloris, but in Greek 8 Flora is also called 8 Chloris (8 Χλωρίς). 8f35b56acc

Asteroid City Asteroid City (stylized in all caps) is a 2023 American science fiction comedy drama film written, directed, and produced by Wes Anderson, from a story Asteroid City (stylized in all caps) is a 2023 American science fiction comedy drama film written, directed, and produced by Wes Anderson, from a story he developed with Roman Coppola. The ensemble cast includes Jason Schwartzman, Scarlett Johansson, Tom Hanks, Jeffrey Wright, Tilda Swinton, Bryan Cranston, Edward Norton, Adrien Brody, Liev Schreiber, Hope Davis, Steve Park, Rupert Friend, Maya Hawke, Steve Carell, Matt Dillon, Hong Chau, Willem Dafoe, Margot Robbie, Tony Revolori, Jake Ryan, and Jeff Goldblum. Its plot mostly presents a stage play set in a retrofuturistic version of 1955, which follows a Junior Stargazer convention and the unexpected arrival of extraterrestrials and UFOs to the titular town in the American Southwestern desert, which is in close proximity to atomic test sites created after World War II. The play is contextualised through a television documentary following the creation of the show itself, adding a layer of metatextuality 8f35b56acc

The origin of Nysa is uncertain. It probably did not experience any destructive collision events, as it is not known to host a family of asteroids sharing similar orbits and compositions. However, some small near-Earth asteroids including 2015 TC25 and 1998 KY26 have been suspected of being escaped fragments of Nysa. The asteroid orbits the Sun in the same region as the... 8f35b56acc

Power and Propulsion Element Developed by Lanteris Space Systems for NASA, PPE will use ion thrusters for nuclear electric propulsion supplemented by separate, higher-thrust bipropellant chemical propulsion. The Power and Propulsion Element (PPE), previously known as the Asteroid Redirect Vehicle propulsion system, is a planned element of the Space Reactor-1 The Power and Propulsion Element (PPE), previously known as the Asteroid Redirect Vehicle propulsion system, is a planned element of the Space Reactor-1 Freedom (SR-1 Freedom) spacecraft 8f35b56acc

Asteroid Redirect Mission Asteroid Redirect Mission (ARM), also known as the Asteroid Retrieval and Utilization (ARU) mission and the Asteroid Initiative, was a space mission proposed Asteroid Redirect Mission (ARM), also known as the Asteroid Retrieval and Utilization (ARU) mission and the Asteroid Initiative, was a space mission proposed by NASA in 2013; the mission was later cancelled. The Asteroid Retrieval Robotic Mission (ARRM) spacecraft would have rendezvoused with a large near-Earth asteroid and used robotic arms with anchoring grippers to retrieve a 4-meter boulder from the asteroid and bring it to lunar orbit 8f35b56acc

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