



NEWSLETTER-AMSAT-EA

04/2022

APRIL

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Translation by Fernando EC1AME



OreSat0

The OreSat project is managed by The Aerospace Society of the State of Portland (PSAS) and is an interdisciplinary aerospace project for students at the Faculty of Engineering and Computing Sciences from the State University of Portland. PSAS started with amateur rockets in the late 1990s and now they are building avionics systems rockets, liquid fuel rocket motors and, of course, satellites.

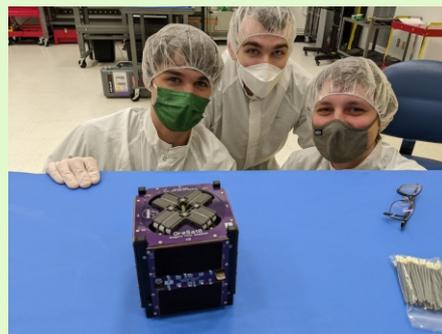


Foto www.oresat.org

OreSat0 after a long and complicated history gave himself to Spaceflight on February 28, 2022. It was launched aboard Astra's mission LV0009 from Kodiak, Alaska on March 15, 2022 at 09:22 PDT. The first data packets from the satellite were received at 12:55 p.m. PDT of the same day. OreSat0 is currently in low Earth orbit synchronized with the sun at 525 km and a speed of 8000m/s, where it should remain for 3-4 years until it goes back in and burns out.

The satellite downlink frequencies are: 436,500 Mhz and 2,425 Mhz using 9k6 G3RUH AX25/APRS.

URESAT coordination by IARU

The IARU has coordinated the frequencies of the Uresat on April 4 for an FM V/U Voice repeater, FSK, AFSK, CW beacon and APRS telemetry.

Uresat is a 1.5p size satellite that, thanks to its repeater based on SDR will offer radio amateurs around the world the possibility to transmit FM voice and AX25/APRS communications at 300/1200 bps. It also should offer a SSTV camera module from the University of Brn to capture random images.

The hardware and software subsystems are enhanced versions of the AMSAT-EA's previous Hades mission launched on January 3 aboard the Space X Transporter-3. The launch is planned in a polar orbit at 525km with SpaceX in October 2022.

Downlink 436.888 Mhz
Uplink 145.975

LIGHTCUBE coordinated by IARU

LightCube is a 1U CubeSat educational mission sponsored by the Arizona State University. Its goal is to inspire and provide a learning experience to people from all over the planet producing a light visible to the naked eye.

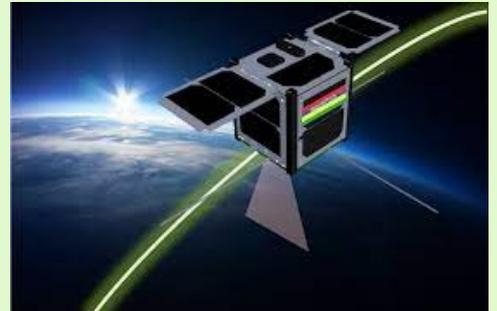
The flash is expected to be as bright as the ISS, it will be produced by two xenon flash tubes. The satellite will be activated by radio amateur operators that, in addition to triggering the LightCube flash, hams can also download and decode telemetry information. Deployment is scheduled from the International Space Station by October 2022.

Coordinated frequency: 437.175 MHz downlink using 1k2 AFSK with Ax25.

<https://lightcube.space/>

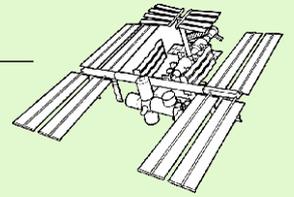
MIR-SAT 1 (MO-112)

According to Jean Marc (3B8DU) it seems to be confirmed that MIR-SAT1 has re-entered the atmosphere. The last valid signs of telemetry from MIR-SAT 1 were received in Mauritius at 01:36 at the ground station of the UoM by YOG-3B8 (Dr. Yogesh Beeharry, Professor of the Department of Electrical and Electronic Engineering, Faculty of Engineering from the University of Mauritius). Yogesh, led a team of students from the UoM who built their own ground station.



JA0CAW (Tetsu), has confirmed via email that didn't receive signals at 05:03 from MIR-SAT1. Many other radio amateurs confirmed that signals were not received. From the sat.

This confirms that MIR-SAT1 re-entered between 01:36 and 05:03 and probably burned around 110km high and unfortunately the exact location is not known. I also confirm that a few minutes before the last TLM received by Yogesh also performed successful Digipeats through it when the satellite was at an altitude of about 160km.



On April 11 at 17:15 UTC they started broadcasting SSTV images from the International Space Station Expedition 6 as a commemoration of the day of cosmonautics and women in space. The images have been transmitted in the usual PD120 mode in the frequency 145,800.



Some of the images received

PORTABLE STATION OF THE MONTH (JW0X - JW100QO)



MERCÁU ASTUR RADIO

FERIA DEL RADIOAFICIONADO

30 DE ABRIL 2022



Foto: Victor Berenguer



CAJA RURAL
DE ASTURIAS

11:15 - 12:00 SATELITE QO100 by EA1TA (Francisco Manuel)

12:15 - 13:00 THE SLOW TELEVISION SWEEP - SSTV by EA2AFL (Jose Angel)

13:15 - 14:00 V CENTENARY FIRST TOUR AROUND THE WORLD by EA7HLU (Carlos)

16:00 - 18:00 URESAT & PREVIOUS MISSIONS by EA4GQS (Felix)

11:00 - 14:00 ~~YOUNG PEOPLE WORKSHOPS~~

16:00 - 18:00 ~~YOUNG PEOPLE WORKSHOPS~~

AMSAT-EA products in the URE store

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