



**AMSAT**

# NEWSLETTER-AMSAT-EA

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**JULY**

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## CAS-6, Transponder activated

The CAMSAT CAS-6 satellite was launched on December 20, 2019 and now, almost 6 months later, we are informed that the antenna of V / UHF was deployed on June 20 , so its linear transponder was activated.

Due to OBC failures both the CW beacon and the GMSK telemetry are not working correctly.



The linear transponder has transmission cuts every 2 seconds making it very difficult to complete QSOs. The working frequencies are 435,280 for the uplink and 145,925 for the downlink, with a width of 20Khz. The CW beacon is on 145,910 and the GMSKAX.25 4.8kbps telemetry on 145,890.

## UPMSat-2 launch date postponed

UPMSat-2 is a 50kg university microsat , shaped as a 0.5mx parallelepiped 0.5 m base and 0.6 m height, and what is the logical evolution of the previous platform UPMSAT-1, qualified for flight with Ariane-4 back in 1995 and put into orbit in July of that same year.



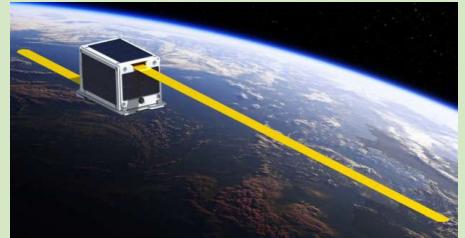
The objective of this new project is to design, build, qualify, launch and operate a new orbit platform based on the previous one, but incorporating new technologies and adapting it to the requirements of current launchers.

Telemetry may be received on 437.405MHz FSKAX.25 at 1200 baud.

The description of the transmissions is in the content section of our web page.

The launch of this satellite is still postponed after several attempts since the launch of the Vega rocket from French Guiana back in june.

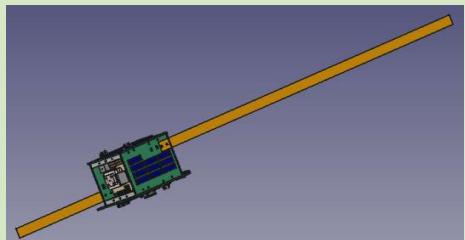
SpaceX will launch in December 2020 the EASAT-2 and Hades satellites that AMSAT-EA is building next to the European University in a launch that has been managed through the Scottish space broker Alba Orbital. EASAT-2 and Hades will be launched into a sun-synchronous orbit of between 500 km and 600 km and its main function is to act as an analog and digital repeater for radio amateurs, also carrying a camera for the transmission of SSTV images provided by the Czech Republic that already flown years ago on the PSAT-2 the satellite of the United States Marine Academy. Now it's being adapted to fit in a much smaller space.



Both satellites are based on a pocketQube 1.5P (7.5 x 5 x 5 cm) architecture and represent an evolution of the previous GENESIS platform, whose GENESIS-L and GENESIS-N satellites are expected to fly before the end of the year with Firefly. Uplink will be on VHF and downlink on UHF.

#### Description of GENESIS transmissions, available

The description of the AMSAT-EA sats GENESIS-L and GENESIS-N transmissions are already available (see links below).



The launch is expected to be in September with the American company Firefly from the Vandenberg Air Base, and aboard the Picobús platform, developed by Libre Space Foundation. On that platform will also fly beside the AMSAT EA and LSF satellites, the new Fossa-1B and Fossa-2 from Fossa Systems.

GENESIS are two digital satellites, ASK repeaters, and are the first designed and built entirely by AMSAT EA, together with the European University. Both incorporate an AIS-gPPT3-1C ion booster developed by the American company Applied IonSystems. [Download](#)

#### Upcoming Canadian Cubesats

The Canadian Space Agency has provided support and guidance to 15 teams of college students from across Canada who are building cubesats. The 15 proposed satellites will be deployed from the International Space Station possibly from 2,021. RAC is involved in explaining how and under what conditions Radio amateurs can use communications with these satellites.

These projects will serve to develop skills for students in many facets of engineering, science, technology, business and Projects management.

## Activities announced



N7AGF, will be active from DN44 july 13-17 on FM sats and maybe linear ones.

NS3L, Steve will be in the gridline FN11,12,21,22 .Look for him on July 25.

KX9X, Sean in the gridline EN20/30 , July 28-31

AD0DX, Super-rover activity on DM97/98 and EM08/09.

WY7AA Rover activity : July 14-18 Dn64; July 20 DN67/68; July 23 DN55/56 and july 24 DN65/66 . All days more or less between 16:00-04:00z. Updates on his twitter. <https://twitter.com/wy7aa>



EA3AGB, with his QFH version



EA7KAN, from IM96



N4DCW

## AMSAT-EA FORUM

From AMSAT-EA we want to promote among the community of Spanish amateur radio ops to spread the knowledge about our hobby through the internet. That's why we remember that our association has a forum in which anyone can participate , even if you are not a member. We encourage you to take advantage of this space to make your inquiries, start debates, share your concerns or help others.

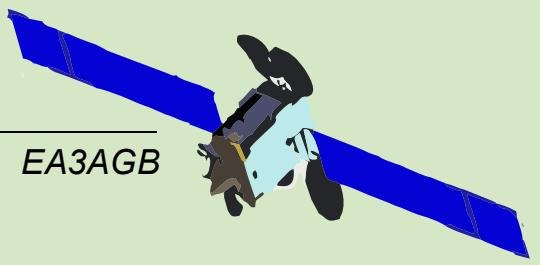
Here is a link to the AMSAT-EA FORUM:

<http://foro.amsat-ea.org>



## QO-100

EA3AGB



4S7AB	NJ07IQ	SSB	QRZ.COM
BG0AUB	NN3SV	SSB	LOTW-EQSL
CU2JX	HM77ES	SSB	LOTW-EQSL
D44TD	HK85DC	SSB	QRZ.COM
AM500ISJ	IM66VN	CW	EA7URF
EP4HR	LL69GP	SSB	LOTW
HB0TR	JN47SD	SSB	LOTW-BURO
HB9MFL	JN37TF	SSB	LOTW-EQSL
E2STAYHOME	OK30IW	SSB	QRZ.COM
LX/DL4EA	JN39DM	SSB	LOTW
LX1GA	JN39BR	SSB	QRZ.COM
LX2LA	JN39QP	SSB	QRZ.COM
PA100ETM	JO21QK	SSB	QRZ.COM
PP6ZZ	HH19LA	SSB	LOTW
RA3S/P	LO04AV	SSB	LOTW
RD7P	LN23TI	SSB	EQSL
RU0AOA	NO66MA	SSB	EQSL
S21VU	NL53ER	SSB	QRZ.COM
SV5BYR	KM26CK	SSB	QRZ.COM
YO5BRE	KN07WB	SSB	EQSL
AT9SS	MJ89DX	SSB	LOTW
ZS1CDG	JF96IE	SSB	QRZ.COM
ZS6JGL	KG44EE	SSB	QRZ.COM



EA3AGB



DL/M0KDS portable setup



13cm antenna of D4C Team



Portable setup of G6WRW

## AMSAT-EA products in the URE store

For several weeks you have at your disposal several products of AMSAT-EA personalized with your callsign on the URE website.



*Don't hesitate  
Support AMSAT-EA*