



# NEWSLETTER-AMSAT-EA

08/2020 AUGUST

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**AMSAT**

## GÉNESIS satellites delivered to Libre Space

AMSAT EA has delivered in Athens, Greece, the GÉNESIS-N and GÉNESIS-L satellites to the Libre Space Foundation (LSF) for its upcoming integration into the Picobus ejector, developed by the greek foundation itself.

AMSAT EA took advantage of the visit to deliver also the satellites Fossa-1B and Fossa-2 of Fossa Systems that will be also integrated together with GENESIS and Qubik-1 and Qubik-2 from LSF in the ejector.



Once all the satellites have been integrated into the Picobus dispenser, it will travel to the United States for final integration into the Alpha rocket of the Firefly company, an operation to be carried out at Vandenberg Air Base in California, from where the launch will take place, presumably in fall this year.

GENESIS are digital satellites that allow the retransmission of ASK and CW messaging frames. They are the first satellites designed and built entirely by AMSAT EA in collaboration with the European University and with the participation of ICAI students in the Communications system. Many volunteer radio amateurs have also helped in its design, construction and testing.

## AMSAT partners with WiSe-Net to develop MESAT1

The Wireless Sensors Laboratory at the University of Maine (WiSe-Net Lab) and AMSAT have signed an agreement to collaborate in the construction and operation of MESAT1, Maine's first small satellite, to be launched into space in the next three years. MESAT1 is Maine's first CubeSat, one of 18 small satellites selected by NASA to carry auxiliaries payloads to space between 2021 and 2023.

It is part of the NASA's CubeSat Launch Initiative that provides opportunities for payloads of science and technology of nano satellites built by universities, schools and non-profit organizations that can participate in space launches.

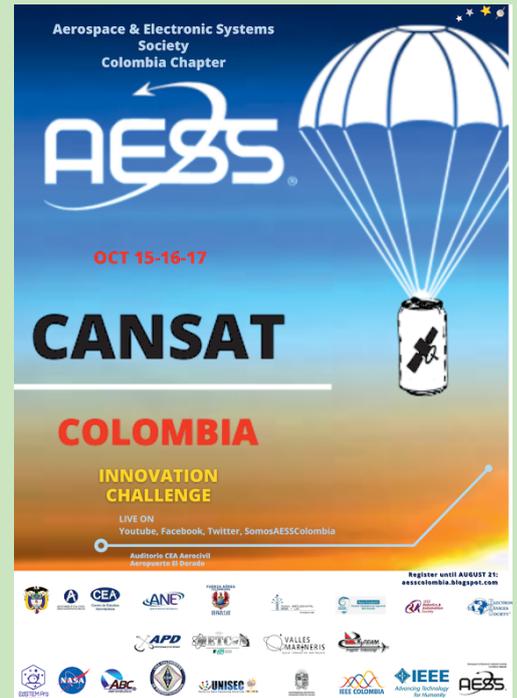
AMSAT President Clayton Coleman, W5PFG, welcomed the announcement. "This is a great day for AMSAT and UMaine's Wise-Net Lab. This association is a true mutual benefit for both education and ham radio community. The collaborative effort of the AMSAT engineering and operations teams has once again succeeded in providing another opportunity to AMSAT".

# CANSAT COLOMBIA 2020

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The CANSAT challenge consists of the design and building of a mini satellite model which measures pressure, temperature, height and position similar to a sonde. This microsatellite must have similar capabilities to a radio probe with electronic components, sensors, transmitters and energy. Should be ready to fly at a height of 1000 meters (minimum) and then resist a free fall and land with the help of a parachute that should also be part of the design and building. On land a RF receiver will have a connection to the CANSAT.

Each challenging team, in the categories Parrots and Papagayos, must fulfill a mandatory basic mission called Mission Sabio Caldas. Every challenging team, in the Condors categories and Eagles, must comply with the previous an advanced mission called Mission Nicola Tesla



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Challengers must build a Cansat and do a schedule of flight to accomplish a mandatory primary mission, called Mission Sabio Caldas. This mission should measure temperature, atmospheric pressure and altitude and must also transmit the data to the ground station once per second for teams on the ground to analyze the data obtained and calculate altitude and compare with measured data.

This mission is similar to a radio sonde and the hypsometer invented by Francisco José de Caldas. The team must design, build and operate a telemetry system that outputs data during the descent of the CANSAT, after launch, and the control center - through data capture and tracking algorithms – should represent with graphs that relate the various variables. The team must show evidence of data capture and reception, through time-altitude, temperature-altitude, atmospheric pressure-altitude graphs time and others. All components must be inside the can. The only external elements are the parachute and the antenna. Weight 500 grams  $\pm 5\%$

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This mission consists of an advanced telemetry project in addition to the basic mission (Misión Sabio Caldas), to give an extra value to CANSAT. For example, you can add acceleration sensors, geolocation (GPS / GALILEO), gyroscope, altimeter, solar radiation, UV, IR, remote controls, and what the imagination of each group wants to achieve.

# Announced Activations

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N8MR, will be in EN57, EN56, En67, august 2-8. He may activate also EN56 and 67. Roving holiday style.

N7EGY, will be in DN16, august 5 to 8. ;Perhaps also from DN35 on 8/8!

KB5FHK, will be travelling to MS and will activate EM50. EM51, august 8 and 9.

AK7DD, will activate DM59, august 8-10.

AD0DX will activate DM97/98 and EM08/09, august 29 and 30 on his way to Kansas.

AD0HJ, was heading agn to South Dakota activating these Grids: DN74, DN75, DN84, DN85, DN94, DN95, EN04, EN05, EN14, EN15, EN16 and EN17. But you can look for him later on his second trip august 17-21 activating:DN73, DN82, DN83, DN92, DN93, EN02, EN03, EN12, EN24 y EN25

EA4NF, Philippe will be active from the Canary Islands as EA8/EA4NF as from IL39 + IL38. Look for him between august 10 to 17 . FM and SSB sats.

## 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>



# OSCAR Satellite QSO Party

*August 1 to September 22*

The goal of AMSAT-UK OSCAR Satellite QSO Party is to encourage all radio amateurs from all over the world to get on the air and make contacts via satellite during the summer in the northern hemisphere. We would like to attract both experienced operators and all the newcomers.



While points are awarded for QSO, this is not a contest, but We hope it encourages people to get on the air and enjoy the excitement of making contacts through satellites.

AMSAT-UK's OSCAR Satellite QSO Party will feature the support of an online leaderboard that will be available from the beginning of the event, which will run from 00:00 GMT on August 1 to 23:59 GMT on 22 September. Prizes will be awarded to those from the first to the thirteenth place and are open to both AMSAT-UK and non-members around the world.

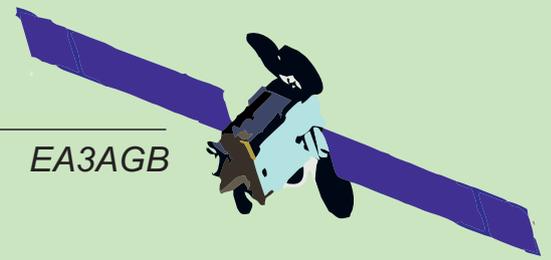
- .£250 Amazon coupon for first place
- .£150 Amazon coupon for second place
- .£50 Amazon Coupon for Third Place
- .From fourth to thirteenth place One year of membership of AMSAT-UK

Download the AMSAT-UK OSCAR QSO Party rules

<https://leaderboard.amsat-uk.org/>

# QO-100

EA3AGB



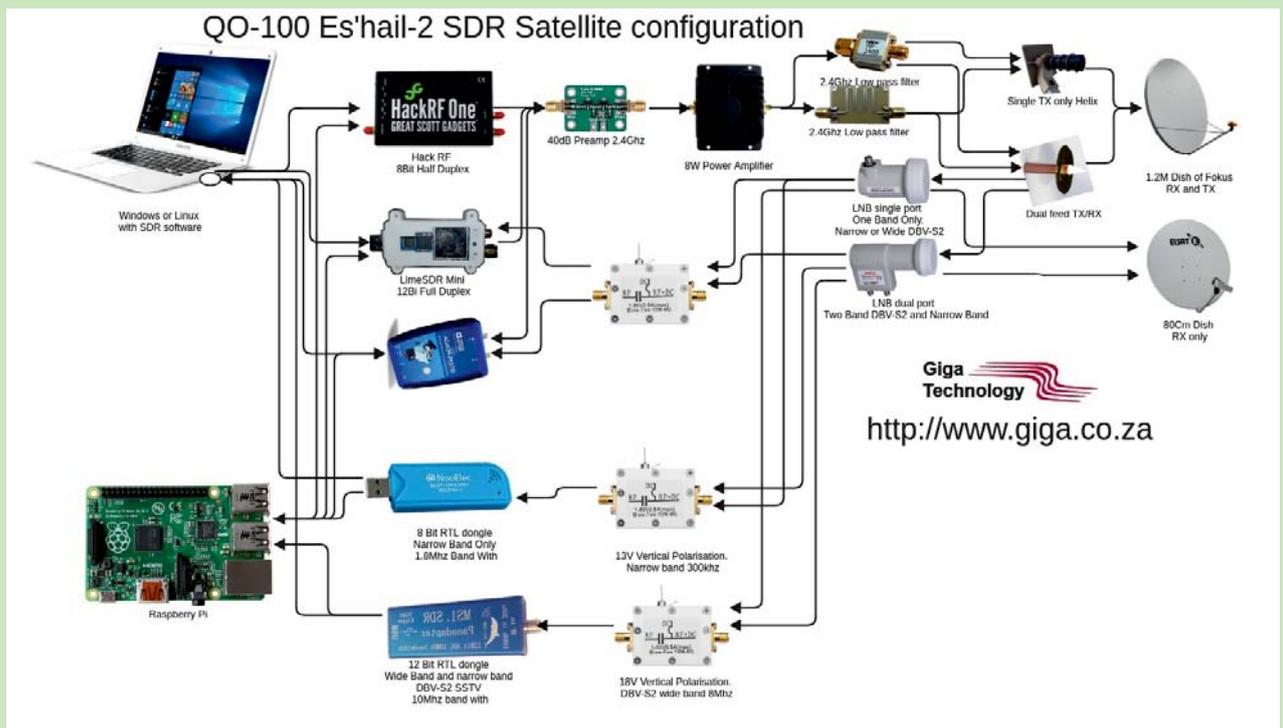
4X1AJ	KM71OG	CW	LOTW
CN8JQ	IM64OA	SSB	QRZ.COM
AM500ISJ	IM66TS	CW	EQSL
BG0AUB	NN33SV	SSB	LOTW
D44TD	HK86NO	SSB	DIRECT
DP70DARC	JO31QX	SSB	BURO-DIREC
EL2DT	IJ56FJ	SSB	QRZ.COM
OH9FTW	KP26UL	SSB	LOTW-EQSL
OL725PLZ	JN69OU	SSB	BURO-DIREC
PY2SFY	GG77GB	SSB	QRZ.COM
HF9MUZEUM	JO90IH	SSB	BURO-DIREC
TK/F6GLS	JN41JR	SSB	DIRECT
R2DRJ	KO85WR	SSB	LOTW-EQSL
SO1WS	IL46RD	CW	LOTW
S0S	IL46RD	SSB	LOTW
SQ5PE/P	KN19AP	SSB	QRZ.COM
ST2YL	KK65GP	SSB	QRZ.COM
SZ2T	KN10KQ	SSB	LOTW-EQSL
SV5BYR	KM46CK	SSB	EQSL
SV8SIU	KM08FE	SSB	QRZ.COM
YL/LA9TKA/P	KO07XO	SSB	QRZ.COM



Setup OK1CDJ



Setup DH2PA



## 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.



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