

# NEWSLETTER-AMSAT-EA

04/2020 APRIL

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Translation by Fernando EC1AME

## LAPAN-A2 (IO-86)

The National Society of Radio Amateurs in Indonesia ORARI reports that the radio amateur satellite LAPAN-A2 (IO-86) is being used to send a message to fight coronavirus using APRS: "Stay Healthy, Stay at Home #LawanCorona".



As Sonny Dwi Harsono, researcher at the Satellite Technology Center, explained, this action was a form of support of the government policy on social distancing.

The policy encourages all of us to reduce activities outside the home and interactions with others. "So this message was sent by the satellite LAPAN A2 through the APRS beacon (Automatic Package Reporting System) which was broadcast throughout Indonesia. APRS is a communication system based in text for short messages such as SMS on mobile phones.

## SCHEDULE FO-29 APRIL

The operating schedule for this month of April for the Fuji Oscar 29 (FO-29) satellite will be as follows:

DAY	UTC time	
04	04:20	06:05
05	03:25	05:10
11	03:10	04:55 13:20
12	04:00	05:45
18	03:45	05:30
19	02:45	04:35
25	04:20	06:00
26	03:25	05:10
29	04:10	05:50
30	03:10	05:00



CO6CBF, Hector operando FO29

## SCHEDULE PO-101

Due to the state of Pandemic COVID-19, the repeater is activated very frequently to provide emergency access if necessary. More information on the twitter @Diwata2PH.

# SPECIAL AUTHORIZATION

While the alarm state lasts.

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After the publication of the Royal Decree 463/2020, of March 14, declaring the alarm status for management of the health crisis situation caused by the coronavirus (COVID-19), for this purpose, and with the objective of accompany in this exceptional situation caused by the spread of COVID-19, the URE in its commitment to collaborate and help to cope with the complicated situation that we are currently facing in Spain, presented to the spanish FCC a special request to obtain a special authorization.



Today, the Secretary of State for Telecommunications and digital Infrastructures has issued the resolution granting temporary authorization for the use, under certain conditions, of amateur radio stations by people who do not have the required administrative authorization and always under the supervision of licensed radio amateurs , for the duration of the alarm status and its corresponding measures of mandatory confinement.

That the use of those radio amateur stations should be carried out under the direct and face-to-face responsibility and supervision of the radio amateur and under the conditions established in the Regulations for use in the public radio domain by radio amateurs.

The power of the emissions will not exceed 40% of the maximum value of power established for the frequency band used, with a limit maximum, in any case, 100 W.

This authorization is made on the basis of non-interference with others authorized telecommunications services and non-claim of protection against interference. If harmful interference occurs to other services of authorized telecommunications, emissions must be suspended immediately.

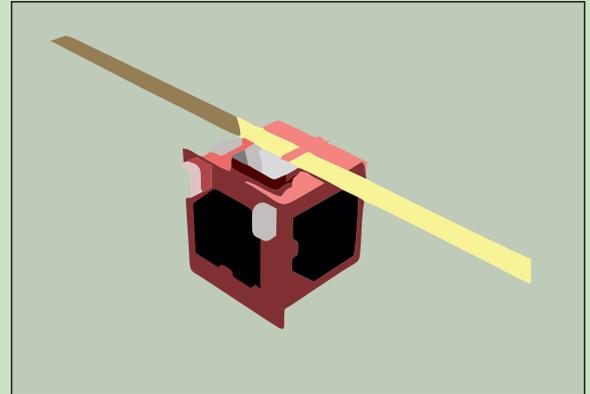
The full text of the resolution of the Secretary of State of Telecommunications and Digital Infrastructures can be downloaded by clicking on the following link:

[access to resolution](#)

# ADMINISTRATIVE SUPPORT FROM AMSAT EA TO AMSAT NEPAL FOR SANOSAT-1

EA4GQS, Félix AMSAT-EA CEO

AMSAT EA is registering AMSAT Nepal's pico-satellite named 'SanoSat-1' with IARU and ITU, due to the difficulty of carrying out this procedure in the Asian country. This is a one-off collaboration, which will allow the satellite flying under the Spanish flag, being it launched at the same time with the EASAT-2 and the Hades satellites of AMSAT-EA, likely with SpaceX later this year.



SanoSat-1 is a 5cm side-cube PocketQube 1P designed and developed affordably for the hobbyist and HAM community by using readily available commercial components (COTS). The SanoSat-1 satellite integrates a gamma radiation sensor as a payload. Its main mission will be to measure the space radiation while orbiting and transmits its level to the Earth using RTTY-FSK modulation. All radio amateurs will be able to receive and decode radiation measurement data.

The secondary mission of the SanoSat-1 satellite is a demonstration of the store and forward (S&F) concept, which will be useful in remote disaster-prone locations. The satellite will collect data from the remote ground sensors, store it on-board and transmit it to Earth's main station. The design for ground sensors will be available to the public.

One of AMSAT Nepal's goals is to encourage more people to join the group of radio amateurs by receiving data from SanoSat-1, which will also transmit a CW beacon with its status. Another activity scheduled to promote HAM radio and satellite technology to science and technology students around the world is the organization of practical workshops on the construction of small satellites and ground stations. There will be an opportunity to build an affordable open-source ground station (SatNOGS) and as well as a GFSK receiver to collect the satellite data.

The design of the satellite 'SanoSat-1' itself will be made open source.

After having received several requests about the need to differentiate the ranking of Amsat-Ea both countries and grids we have analyzed the applications and the situation and we decided to differentiate in the following categories based on the orbits of the satellites:

- Global Countries Ranking, which includes the contacts made in the LEO, HEO and GEO satellites type.
- LEO + HEO Countries Ranking, would include the contacts made on LEO satellites and HEO.
- Global Grid Ranking, which includes the confirmed grids via LEO, HEO and GEO satellites.
- LEO + HEO Grid Ranking, which includes confirmed grids via LEO and HEO satellites.

In case we receive a list without specifying or defining which orbits they belong to, we would validate them in the Global rankings. In order to validate them to specific lists we need you to send us the list of confirmed QSOs. This for those who use the website of URE diplomas is very simple and we explain the steps and the file that we must send.

## STEPS TO FOLLOW GDURE QSOS

Go to the TTLOC Diploma or EADX100.  
We select VER in the Satellite Diploma.



Go to Your QSOs  
Select the form that appears:  
**YOUR CALL SIGN**  
**BAND** (2m,70cm, 23cm, 13cm)  
**AWARD ACCOUNT** (esta palabra la debes de tener mal en español) (DXCC or VUCC)  
Click on Submit  
We print the windows that come out in PDF from the browser notice that there is a “next” to go changing screen.  
We email the files generated.

Entidad	ESTACION	FECHA	BANDA	MODO	PROP
-> Orden de Alta					

Select QSOs to List		Submit Query Form
Call sign worked:	May use wildcards (? and *)	Submit
Your call sign:	EB1AO	Common Queries
Starting Date:	Time:	Most Recent QSLs
Ending Date:	Time:	Most Recent QSOs
Mode:	Band: 2M	
<input checked="" type="checkbox"/> Show confirmed QSOs only		
DXCC Entity:	Sort by QSO Date	<input type="checkbox"/> Descending
Clear Form		
Award Account		
VUCC: EB1AO IN52		

## Announced Activations



AD0HJ, Mitch will travel through grids EN22, EN33, EN34, EN42, EN43 and EN44 from April 2 to 4. More information on twitter: <https://twitter.com/AD0HJ>

WY7AA, RJ will be on the way to Vacaville in CA, April 12-21. The grids he will visit are CM88, 89, 98, 99, DM09, 19, 29, DN00,01,02,10,11,20,21. The details will be posted on the WY7AA QRZ page and Twitter: <https://twitter.com/WY7AA>



Michael, N4DCW



Ron, AD0DX from CN98



Portable setup of F4DXV



Portable setup of K17UNJ



Douglas, N6UA

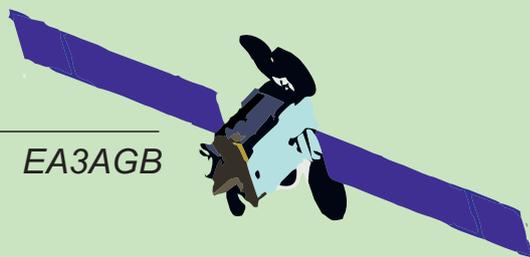
## AMSAT-EA FORUM

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>





4X1TI	KM71JG	SSB	LOTW-EQSL
8Q7NC	MJ64MH	SSB	F6BGC
9V1HY	OJ11VH	SSB	BURO-LOTW
9J2LA	KH44CX	SSB	M00XO
9X2AW	KI48XE	SSB	M00XO
A2DQ319	KG16HL	SSB	DK3ZL
A41ZZ/P	LL83UO	SSB	QRZ.COM
A41ZZ/P	LL92NX	SSB	QRZ.COM
A75GR	LL55OG	SSB	OM6AA
BG0AUB	NN33SV	FT4	LOTW
CT7AQS	IM69FT	SSB	LOTW
CN8JQ	IM64OA	SSB	QRZ.COM
EB5YF	IM99SL	CW	LOTW-EQSL
EA4GIG/P	IM66UM	SSB	QRZ.COM
EA8CXN	IL18SK	SSB	LOTW-EQSL
ES3RF	KO29IF	SSB	LOTW
FR1GV	LG78QS	SSB	BURO-LOTW
MH0ESP	IN89WF	SSB	SP1EG
GJ4MR	IN89WF	SSB	QRZ.COM
HZ1FI	LL34KW	CW	DL2RMC
II4MLB	JN54DT	CW	IK4PKK
IT9NDW	JM68OD	SSB	DIREC-BURO
LB3HC	JO59DV	SSB	QRZ.COM
PA44BARC	JO21QQ	SSB	PI4SHB
R5AO	KO86VA	SSB	LOTW-EQSL
RZ9SP	LO71NO	SSB	QRZ.COM
SV9IOQ	KM25AL	SSB	LOTW-EQSL
TR8CA	JJ40QL	SSB	LOT
AT1HT	MK75AI	SSB	QRZ.COM
AU20HT	MK81UQ	SSB	QRZ.COM
VU2IIH	MK79FS	SSB	VU2FI
ZS1ARB	JF96GB	SSB	QRZ.COM
ZS95QO	JF96FC/	WE SSB	DK3ZL
ZS95QO	KG30CW	SSB	DK3ZL
ZS95QO	KG33XH	SSB	DK3ZL
ZS95QO	KG34LQ	SSB	DK3ZL



Zvika Segal



Zvika Segal



Zvika Segal

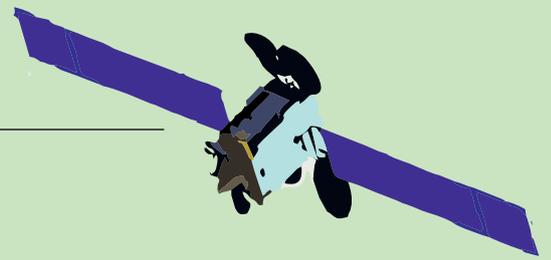


Zvika Segal



Zvika Segal

Expedition 4X0SAT



## AMSAT-BRAZIL QO-100 FT8 QRPp experiment

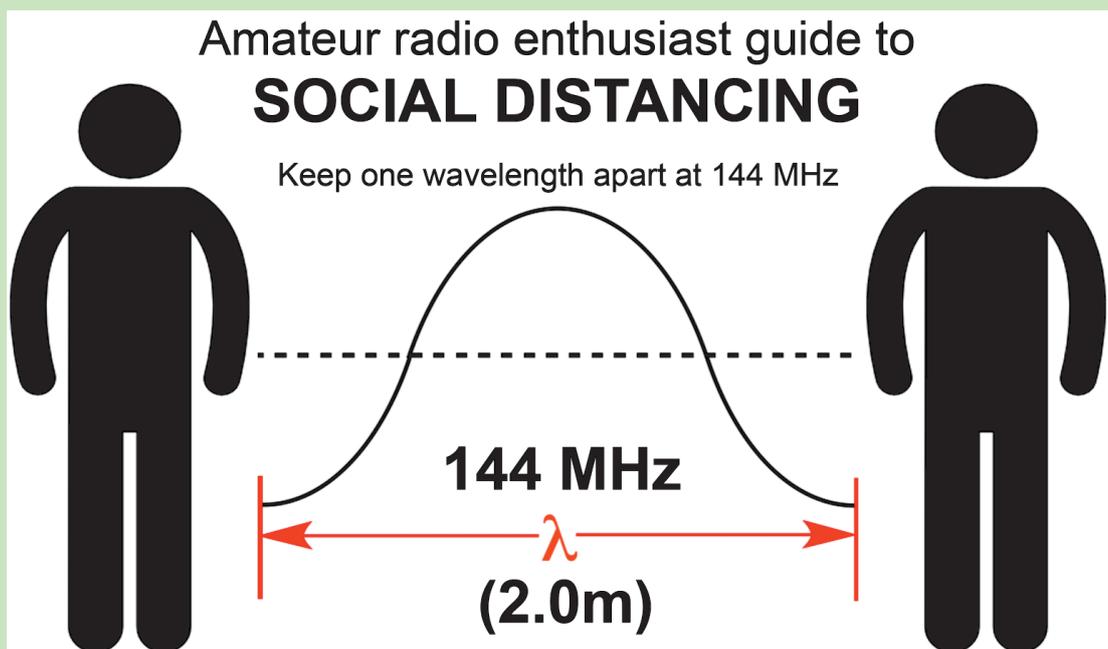
AMSAT-BR is organizing a reverse beacon experiment / contest FT8 QRPp via QO-100 Geostationary Radio Amateur Transponder.

The first 10 stations detected with the lowest SNR will receive a Certificate. The deadline will be May 1, 2020. To be eligible the SNR must be less than -18 dB (measured by the ft8 decoder).

The receiver will be active on Saturdays and Sundays from 12:00 UTC to 24:00 UTC and it will tune to 10.489540 GHz with a bandwidth of 3.5 kHz. All stations calling CQ will be logged.

The objective of the project is to encourage low power experimentation through the QO-100 narrowband transponder. The stations that participate in the experiment can send a brief description of their configuration, including information on RF power output, hardware and software configurations, antenna type and gain, photos, etc. to this email: [py2sdr@gmail.com](mailto:py2sdr@gmail.com)

73, Edson PY2SDR



design: G6NHU

## 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*