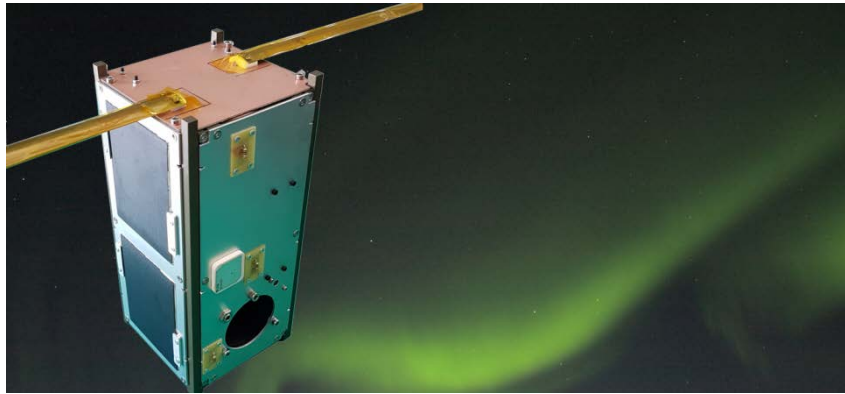


Amateur radio community: access to AMICal Sat



Amical sat on IARU's website: http://www.amsatuk.me.uk/iaru/finished_detail.php?serialnum=686

Overview:

The satellite is made for observing Auroras from space. (more information on [this page](#))

Our scientists can give information to the community about space weather.

Telemetries are coming by UHF band.

Pictures are available by S band on demands (website in progress).

The pictures are in Raw format. Exploitation is possible with software (soon available)

We aim to use skills of the community to get back pictures and telemetries downloaded through the website.

Expected Launch :

January - march 2020

Frequencies & technical specifications:

The downlink frequencies are :

- **UHF :436.100 MHz**, Emission designator 25K0F1D, EIRP 33 dBm, 1k2 AX25 AFSK, Polarization type RHCP
- **S Band : 2415.300 MHz**, emission designator 1M00F1D, EIRP 38 dBm, GFSK 1000kb/s

Latest Two Line Elements:

The latest Keplerian Element data for AMICal sat (after launch) can be obtained from the Celestrak website. These keps are regularly updated at :

<http://www.celestrak.com/NORAD/elements/cubesat.txt>

Licencing :

Licencing of receive data is : creative common CC BY-NC-SA 4.0 with mandatory mention of CSUG
(<https://creativecommons.org/licenses/by-nc-sa/4.0/deed.fr>)

Will come in the next months :

- A specific website where you can subscribe to be contributors to reception of AMICal sat
- Platform to uplink data received.
- Software to decode picture and telemetries
- Platform for exchanging on space weather and radio topic

Supported by : IARU , AMSAT, ADRI38

