



On May 25, as part of an initiative organized by INAF (Italian Institute for Astrophysics), AMSAT Italia will conduct a series of transmissions toward several exoplanets and the Moon. Transmissions will take place on the 6 cm band (frequency 5760.1 MHz, RHCP polarization, callsign IU0SAT/2 in JN46qd) using a 30-meter Cassegrain antenna. IU0SAT/2 will be operated by IK1SLD (Claudio) and IW1BND (Fabio) of IK1SLD Telebridge Station, and by IU4MES (Carlo).

During the period when transmissions to the Moon are taking place, different transmission modes will be alternated, according to a schedule that will be announced in advance on [logger.hb9q.ch](http://logger.hb9q.ch). One of the transmission modes to be used is one that, at the request of INAF, replicates—albeit with different content and bitrate—the historic “Arecibo message” ([https://en.wikipedia.org/wiki/Arecibo\\_message](https://en.wikipedia.org/wiki/Arecibo_message)). It will be interesting to experimentally verify whether this type of message remains intelligible after its reflection by the Moon. An example of what the transmitted message sounds like is the audio in the following video, in which the frequency shift between the two tones is 344 Hz: <https://drive.google.com/file/d/1ABHfUpXMWMBP8EQfU4uXXMtVlig-bJHH/view>. You are strongly invited to record the audio of your reception for a subsequent decoding. You can decode the message and generate the image by drawing a matrix with  $N_r$  rows and  $N_c$  columns on a sheet of squared paper and marking with a pen the squares that correspond to the highest-frequency tone. The values of  $N_r$  and  $N_c$  will be provided in advance on [logger.hb9q.ch](http://logger.hb9q.ch)

The IU0SAT/2 station will operate from moonrise until 16:00 UTC in transmit-mode-only. After 16:00 UTC, a remote receiving station equipped with a 2.4-meter antenna will be activated, and QSOs will be possible. In any case, listening reports will be most welcome and invaluable.

Starting at 16:00 UTC on the same day, IK0HWJ (Gino) will also be operational (TX & RX) in JN61hm on the same band.