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TO: INTERNATIONAL
TELECOMMUNICATION UNION

дог.3.11.07 № 23/17

Frequency coordination service request

Dear Madam, Sir

We are OndoSpace, a newly established space startup in Mongolia. We are excited to announce our plans to launch our in-house developed experimental CubeSats in March 2024. As part of our mission, we kindly request assistance from your organization, the International Telecommunication Union, to coordinate frequencies within the amateur bands that will be utilized for our project.

The satellites are named ONDOSAT-OWL-1 and ONDOSAT-OWL-2, both of which are 0.5U CubeSats. These satellites represent the inaugural project of collaboration between ONDOSPACE LLC and the local amateur operators. Both CubeSats share an identical design, will be launched simultaneously, and will utilize the same radio frequency for communication, effectively being considered as a single 1U for the launcher.

The primary mission of the ONDOSAT-OWL CubeSats is to provide a message store-and-forward capability to amateur operators on the UHF amateur band. Amateur operators can utilize this facility to test and evaluate their uplink equipment by sending store-and-forward (S&F) messages to the satellite. They can then verify the successful downlink of sent messages via a website that displays all S&F messages during a ground station pass.



In addition to this mission, the ONDOSAT-OWL CubeSats will broadcast encrypted short messages through their beacon within the 435-438MHz frequency band. This mission offers the amateur radio community an opportunity to decode these messages using a publicly accessible key provided on the official ONDOSAT-OWL website. Accomplished individuals who successfully decrypt the messages will be recognized on the official website and will receive a special QSL card as a token of achievement from the ONDOSAT-OWL project.

The secondary mission of ONDOSAT-OWL-1 and ONDOSAT-OWL-2 involves remote sensor capabilities based on low-power LoRa modulation. This mission aims to demonstrate remote data collection, particularly for monitoring environmental hazards in remote areas of Mongolia. Furthermore, ONDOSAT-OWL-1 and ONDOSAT-OWL-2 are equipped with an imaging mission aimed at enhancing public outreach and awareness. These combined missions aim to raise awareness of amateur radio communication among the global public.

In the event of a change in LoRa parameters, details will be made available on the ONDOSAT-OWL's website, which can be accessed at <https://amateur.ondospace.com>. ONDOSAT-OWL-1 and ONDOSAT-OWL-2 are scheduled to be launched aboard SpaceX's Transporter-10 in March 2024. You can find more information at <http://amateur.ondospace.com/>.

This non-GSO (non-Geostationary Satellite Orbit) satellite system is designed to operate as a short-duration mission in accordance with Resolution 32 (WRC-19) and will utilize the following frequencies.



B1a Beam designation	B2 Emi- Rcp	BR8 Action code	BR7a Group id.	BR9 Action code	BR47 Frequency band (MHz)	BR62 Expiry date for bringing into use	C4a Class of station
26K0F1D	R		5		435 - 438		EA
32K8X1D	R		6		435 - 438		EA
26K0F1D	E		3		435 - 438		EA
32K8X1D	E		7		435 - 438		EA
400HA1AA	E		8		435 - 438		EA

We kindly request, once again, your esteemed organization's assistance in providing frequency coordination services for us. Your continued support is greatly appreciated. Thank you very much.


 ALTANSHAGAI BAT-ORONGO
 CEO
 ONDOSPACE LLC

