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Cheers on the ground as first signal arrives from DMSat-1

SIGNAL RECEIVED AT 4:42PM, REVEALS MOHAMMAD BIN RASHID SPACE CENTRE

DUBAI

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The first signal from DMSat-1, the emirate's first nanometric environmental satellite, developed by Dubai Municipality in collaboration with the Mohammad Bin Rashid Space Centre (MBRSC), was received last evening.

"The first signal from the DMSat-1 has been received at 4:42pm (UAE time)," MBRSC announced in a tweet. It confirmed that the satellite had reached its orbit and begun its scientific mission.

A video shared by the space centre showed the satellite team members at MBRSC's mission control centre cheering and clapping after the announcement of the reception of the signal.

The milestone achievement took place more than six-and-a-half-hours after the Russian-made Soyuz-2.1a rocket that carried DMSat-1 and 37 other satellites from 17 other countries took off to space from Baikonur Cosmodrome in Kazakhstan at 10.07am UAE time.

At 10.18am here, MBRSC announced that the Fregat carrying the DMSat-1 satellite separated from the Soyuz-2.1a rocket. In the next two minutes, the first burn of the Fregat began.

It began cruising to orbit



■ The DMSat-1, lifting off from Baikonur Cosmodrome in Kazakhstan, will monitor air quality and greenhouse gases.



The Mohammad Bin Rashid Space Centre confirmed that the satellite had reached its orbit and begun its scientific mission.

since then and DMSat-1 successfully separated from the Fregat by 2.24pm, MBRSC said in a series of tweets. The satellite's orbit is 550 km above earth.

How it will monitor Dubai

Weighing 15 kilogrammes, the DMSat-1 satellite contains state-of-the-art scientific instruments to monitor air quality and detect greenhouse gases as well as fine particles in the

atmosphere. Data will be stored on the onboard storage system and downloaded to MBRSC's ground station.

Over a period of three to five days, the satellite will monitor a single site more than once from seven different angles. It will orbit the earth 14 times a day and will pass over the MBRSC ground station four to five times a day to receive new imaging orders and enable downloading of data. Earlier,



Watch:

Cheers on the ground as first signal arrives from Dubai Municipality's DMSat-1

SCAN ME

550km

above the earth the satellite will orbit, passing MBRSC four to five times a day

the launch was supervised by a team of officials and engineers from MBRSC and Dubai Municipality.

Under the supervision of MBRSC, once the testing of onboard subsystems and instruments is completed and verified, the satellite will move into its operational phase, in which it will monitor, collect and analyse environmental data as well as measure air pollutants and greenhouse gases.

The satellite was fully manufactured and developed by the Space Flight Laboratory (SFL) at the University of Toronto in Canada, and a team from MBRSC supervised the development and worked on the final testing of the satellite before being moved to the Baikonur Cosmodrome in Kazakhstan.