



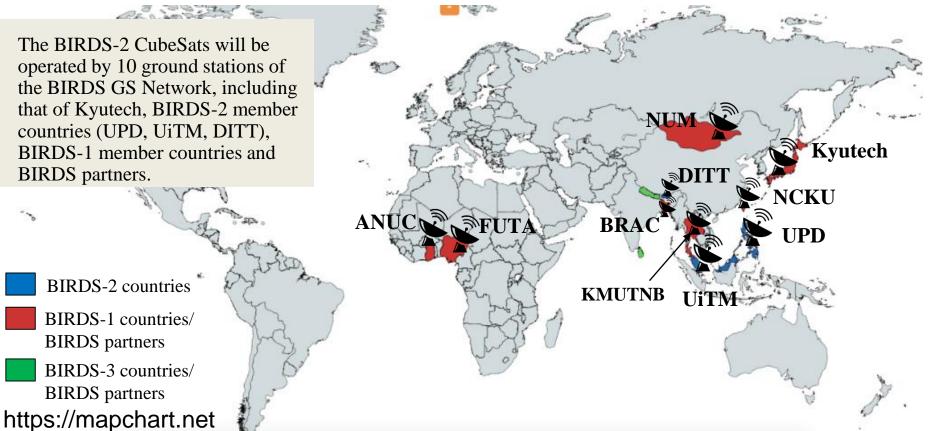


### GROUND STATIONS OF BIRDS-2 PROJECT



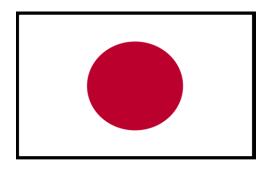
#### BIRDS International Ground Station Network











## JAPAN GROUND STATION KYUTECH



#### BIRDS Ground Station, KyuTech





- Will serve as master ground station for operation of BIRDS-2 CubeSats
- Call Sign: JG6YBW
- Location: 33.89° N, 130.84° E









# PHILIPPINES GROUND STATION UPD



#### UPD Amateur Radio and Satellite Station



- Located in UPD EEE Institute
- Location: 14.655° N, 121.065° E
- Operated by volunteer students and their mentors with amateur operator license









#### Satellite Tracking and Communication Testing



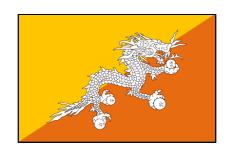
- Transmissions received: ISS SSTV, XW-2F, XW-2B, IO-86, AO-85, AO-73, UKube-1, DUCHIFAT, Tanusha-1
- Received data from satellites such as ISS, AO-73, AO-85 and NO-44



Received SSTV image from ISS







# BHUTAN GROUND STATION DITT



#### BIRDS-2 Ground Station, DITT, MoIC





Location: Ministry of Information and Communications (MoIC) Campus, Thimphu City:

• Altitude: 2368 m

Latitude: 27°28' N

• Longitude: 89°38' E

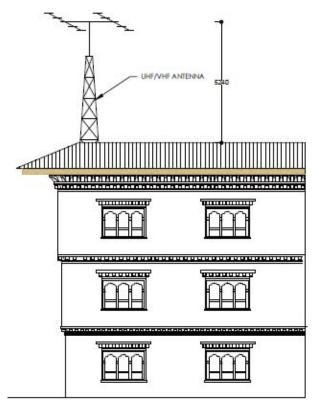


Hosted and operated by Division of Telecom and Space (DoTS), Dept. of IT & Telecom (DITT)



#### BIRDS-2 Ground Station, DITT, MoIC







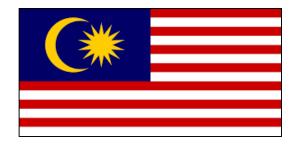


GS operators: 6 officials from the DoTS has been identified for ground station operation.

7 meters from the base







# MALAYSIA GROUND STATION UITM



#### UiTM Amateur Radio and Satellite Station









Roof top view

- Located in UiTM Shah Alam campus.
- Currently operated by 3 volunteer students and staff with amateur operator license
- Location: 3.0731, 101.4974
- Callsign: 9M4CTM



#### Ground station Control room





UiTM GS operation room at level 21, Tower 2 (above) and monitoring room at level 7, Center of Satellite Communication lab (right)

• Tracked io-86, Tisat-1, Horyu4, and also BIRDS-1





#### Other Ground Stations of BIRDS-1 Countries and BIRDS Partners



□BRAC University (Bangladesh)

Address: CSE Department, 66, Mohakhali, Dhaka-1212, Bangladesh

Coordinates: 23.781°N, 90.407°E

□ All Nations University College (Ghana)

Address: P.O. Box KF1908, Koforidua, Eastern Region, Ghana, West Africa

Coordinates: 6.113°N, 0.342°W

☐ Federal University of Technology (Nigeria)

Address: Federal University of Technology, Akure, Nigeria

Coordinates: 7.503°N, 5.231°E



#### Other Ground Stations of BIRDS-1 Countries and BIRDS Partners



□ National University of Mongolia (Mongolia)

Address: Ikh Surguuliin gudamj-1, Baga toiruu, Ulaanbaatar-14201, Mongolia

Coordinates: 47.923° N, 106.917° E

☐ King Mongkut's University of Technology - North Bangkok (Thailand)

Address: 1518 Pracharat 1 Road, Wongsawang, Bangsue, Bangkok 10800, Thailand

Coordinates: 13.819° N, 100.514° E

□ National Cheng Kung University (Taiwan)

Address: No.1, University Road, Tainan City 701, Taiwan (R.O.C.)

Coordinates: 22.999° N, 120.217° E