

REMOTE SENSING & TELEMETRY IN MALAYSIA

HISTORY & FUTURE

HISTORY

BACKGROUND

- **Malaysian Centre of Remote Sensing (MACRES)** was formed in **August 1988** under the Ministry of Science, Technology & Innovation (MOSTI)
- On **15 February 2008**, MACRES was upgraded to **Malaysian Remote Sensing Agency (MRSA)**
- On **20 February 2019**, MRSA merged with **National Space Agency (ANGKASA)** to become **Malaysian Space Agency (MYSA)**
- It works as a research and development centre in remote sensing and related technologies

FACILITIES

- Computer system for satellite data image processing, geographic information system and global positioning system
- Satellite ground receiving station for real time data acquisition
- Microwave remote sensing laboratory
- Remote sensing digital photographic laboratory
- Remote sensing data archiving and retrieval centre

2 MAJOR PROGRAMMES

Research and development (R&D)

- Research on remote sensing, GIS and related technology applications in the field of agriculture, natural resources, environment, disaster, national security as well as management of land development
- Focuses on spatial data analysis and GIS modelling, computer system and sensors
- Provide technical advice on the use of remote sensing technology in the country

Technical services

- Maintain the operation and services
- Act as a one stop centre in remote sensing technology

SERVICES OFFERED

MRSA accepts application for satellite remote sensing data for **3 categories**:

- Non-restricted Remote Sensing Satellite Images for image resolution of more than 5m
- Restricted Remote Sensing Satellite Images
- Free Remote Sensing Satellite Images under the Category of Research and Education

FUTURE: SPACE SCIENCE

Space science can be divided into few general areas:

- Solar and space physics, including study of the magnetic and electromagnetic fields
- Monitor space weather using ground-based instrumentations
- Astronomy and astrophysics
- Microgravity

Eg: a collaboration with agencies to provide exposure to school and university related to space technology and science with programmes like:

- KIBO Robot Programming Challenge (KRPC)
- Asian Herb in Space (AHiS)
- Parabolic Flight
- Space Seed for Asian Future (SSAF)