



Building Capacity to Use Earth Observations in Addressing Environmental Challenges in Bhutan

Day 3 – Land Cover Mapping and Monitoring

Agenda: May 13 – 16, 2024 Thimphu Tech Park

- https://appliedsciences.nasa.gov/sites/default/files/2024-04/Agenda_Bhutan_1.pdf
- **Day 3 – Wednesday, May 15 – 8:30am – 5:00pm**
 - Session IV: Land Cover Mapping and Monitoring
 - Overview of Land Cover Products
 - Land Cover Mapping and Monitoring (Optical & Radar) – Forestry
 - Land Cover Mapping and Monitoring (Urban Growth)



Session 3 Objectives

By the end of Day 3, participants will be able to:

- Navigate the GEE interface to explore remote sensing datasets relevant to land monitoring
- Execute JavaScript commands to retrieve satellite data and process imagery for analysis
- Complete a supervised land classification along with an accuracy assessment in GEE
- Apply algorithms to derive a time series of environmental parameters and calculate differences between years to detect urban changes
- Illustrate the capabilities of cloud-based raster computing for land management applications

