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Certificate of Achievement

Emmanuel Renault

has completed the following course:

EARTH OBSERVATION FROM SPACE: THE OPTICAL VIEW

EUROPEAN SPACE AGENCY

This online course focused on the role of optical Earth observation satellite technology and data in monitoring various aspects of the Earth system and human interaction with it.

5 weeks, 4 hours per week

Dr Mat Disney
Reader in Remote Sensing, Department of Geography, UCL
NERC National Centre for Earth Observation (NCEO)

esa

The person named on this certificate has completed the activities in the attached transcript. For more information about Certificates of Achievement and the effort required to become eligible, visit futurelearn.com/proof-of-learning/certificate-of-achievement.

This learner has not verified their identity. The certificate and transcript do not imply the award of credit or the conferment of a qualification from European Space Agency.

TRANSCRIPT

Emmanuel Renault

has completed the following course:

EARTH OBSERVATION FROM SPACE: THE OPTICAL VIEW

EUROPEAN SPACE AGENCY

97%
AVERAGE TEST SCORE

This online course focused on the role of optical Earth observation satellite technology and data in monitoring various aspects of the Earth system and human interaction with it. It explored how satellite data is acquired and used, the range of data types available, and the terminology and techniques involved, and looked in-depth at diverse applications including in climate science, humanitarian relief, land cover change, urban development, agriculture, and the oceans.

STUDY REQUIREMENT

5 weeks, 4 hours per week

LEARNING OUTCOMES

- Explore how we observe and measure the Earth with optical sensors
- Investigate how satellite data is used alongside other forms of measurement
- Describe the main types of data acquired through Copernicus and other missions
- Explore how to conduct simple analysis using a range of different types of optical Earth observation (EO) data
- Investigate how optical EO data is used in policy and decision-making, in a range of arenas, in conjunction with models

SYLLABUS

- Optical EO technology, terminology and the types of data products available
- The use of optical EO to observe, measure and conserve the land surface and what lives on it
- Monitoring the atmosphere and oceans with satellite EO technology
- Monitoring rapid changes, natural disasters and humanitarian issues
- How to access, process and work with optical EO data
- How satellite data is used alongside other forms of measurement
- The main types of data acquired through the Copernicus programme and other satellite missions
- The use of optical EO data in a range of scientific, policy and decision-making areas, in conjunction with models

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