Geoscience is for everyone everywhere. Geoscientists study all aspects of Earth: the lithosphere, atmosphere, hydrosphere, cryosphere, and biosphere—where all spheres interact. Everyone can recognize the critical role our planet plays in the evolution of life, the importance of biodiversity, and the potential impacts of climate change. Geoscience observation satellites and geoscientific research in the field and in the lab help us understand our planet, its climate, and the processes that shape our landscape. Geosciences inform and support decision-making across all sectors of human endeavor, from national security and environmental sustainability to the delivery of food and energy. Geosciences are essential to understanding the human and natural systems on Earth and to addressing the complex challenges facing our planet.

Access is for everyone. Landsat data is a base for mapping applications and a critical resource for many different types of research, including a wide range of simple to sophisticated approaches that may be critical to solving issues at local to global scales. The data is free from the USGS. To access the data, you'll need to register for an account, which can be done at https://landsat.usgs.gov/. Landsat does not require special software or expertise. Landsat can be used for processing individual scenes or for developing new methods and algorithms. The Landsat archive now contains more than 200 million scenes, with a 50-year history of data and processing. Landsat data is freely available from numerous agencies, including the National Oceanic and Atmospheric Administration (NOAA), NASA, and the European Space Agency (ESA). 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