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Author: Mr. Rakan Alshammari
United States

EARTH OBSERVATION SYSTEMS

Abstract

From orbit to understanding, the Earth Observation Satellites as the key to unveiling a holistic planet. Provide the necessary optical perspective and coverage for gaining a deeper understanding of the earth as a holistic, dynamic, and ecological system. Satellite remote sensing has become increasingly popular over the past decade in the gathering of information about the atmosphere, land, and oceans. It is primarily used to monitor changes in the environment worldwide, manage natural resources, analyse resources, and obtain geolocating information, as well as for strategic applications that pertain to national security. International cooperation in many areas is required for the successful observation of the earth from space Ultimately, this will enhance our understanding of how the earth's ecosystem functions. In order to facilitate such a cooperative venture, a number of groups have been set up, including planning for payloads, maintaining data, assessing technology, and executing missions, among others like the assistance with international cooperation. Remote sensing of the earth is unique in that it provides us with a comprehensive view of the entire environment of the planet. However, China and other countries in Europe and North America have made significant contributions to the development of capabilities in space, such as satellites. Through the integration of each of these disciplines, we can better understand our planet as a planetary system in its complexity. A major objective of European development policy is to promote sustainable development, eliminate the problem of extreme poverty, and ensure regional stability. Over half of all global development aid is provided by the EU and other member countries. Development aid from these countries contributes to peace and security in other parts of the world. A variety of multilateral efforts continue to be conducted to meet global needs, including those being made by the Geo-Observation Organization (GEO), the Committee on Earth Observation Satellites, and the World Meteorological Organization (WMO). Also, it makes progress on a smaller scale as well. Earth observation discussions are often characterized by the discussion of multilateral cooperation. Also, other forms of cooperation like partnerships between countries can also play a substantial role in achieving various scientific, practical, and ideological objectives. The successful partnership between the United States and India, or China and Brazil, illustrates how emerging nations can also benefit from partnerships.