NASA's Global Environmental Remote Sensing Program

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NASA operates a large fleet of global remote sensing satellites that serve to improve knowledge of how Earth system components behave and interact and to document their variability on a broad range of spatial and temporal scales, as well as to demonstrate the use of the data they produce for societal benefit. These missions, which range from small to large and new (~1 year) to long-standing (~15 years) are implemented in many cases through partnerships with other (international/interagency) organizations. NASA's satellite program is complemented by vigorous program of surface- and airborne measurements that provide both calibration/validation information as well as complementary information, a modeling program that serves to utilize satellite data for scientific study, including prediction, and an applied science program that facilitates the use of NASA-produced data in forecasting and decision-making, especially through partnerships with user-focused organizations. A dedicated technology program continues to infuse new capability into NASA's portfolio. A status of currently flying and missions in formulation and development will be presented in this talk, along with relevant highlights from the research, applied sciences, and technology programs.