

# **Earth Observation Satellites and Chinese Applications**

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In this talk existing and future Earth observation satellites are briefly described. These satellites include meteorological satellites, ocean satellites, land resources satellites, cartographic satellites, and gravimetric satellites. The Chinese government has paid and will pay more attention to and put more effort into enhancing Chinese earth observation satellite programs in the next fifteen years. The utilization of these satellites will effectively help human beings to solve problems it faces in areas such as population, natural resources and environment, and natural hazards. The author will emphasize the originality of the scientific and application aspects of the Chinese program in the field of Earth observations. The main applications include early warning and prevention of forest fires, flooding and drought disaster, water and ocean ice disasters, monitoring of landslides and urban subsidence, investigation of land cover change and urban expansion as well as urban and rural planning. The author introduces the most up-to-date technology used by Chinese scientists, including fusion and integration of multi-sensor, multi-platform optical and SAR data of remote sensing. Most applications in China have obtained much support from related international organizations and universities around the world. These applications in China are helpful for economic construction and the efficient improvement of living quality.