




**Special Lecture on Application of Remote Sensing and GIS in Forestry and Wild life management on 04 July 2022 by Prof. Ramu, Professor and Coordinator, Centre for Geoinformatics Technology, DOS in Geography, Manasagangothri, University of Mysore, Mysuru.**

Remote sensing and GIS are complementary technologies that, when combined, enable improved monitoring, mapping, and management of forest resources. The information that supports forest management is stored primarily in the form of forest inventory databases within a GIS environment. A forest inventory is a survey of the location, composition, and distribution of forest resources. As one of the principal sources of forest management information, these databases support a wide range of management decisions from harvest plans to the development of long term strategies.

#### **Applications of remote sensing and GIS to forestry:**

The use of remote sensing by forest managers has steadily increased, promoted in large part by better integration of imagery with GIS technology and databases, as well as implementations of the technology that better suit the information needs of forest managers. The most important forest information obtained from remotely sensed data can be broadly classified in the following categories:

- Detailed forest inventory data (e.g., within-stand attributes)
- Broad area monitoring of forest health and natural disturbances
- Assessment of forest structure in support of sustainable forest management

  
Professor and Chairman  
Department of Studies in Botany  
University of Mysore  
Manasagangothri, Mysore - 570 006