

## **Forest cover, stand volume and biomass assessment in Dudhwa Tiger reserve using SAR (microwave) data.**

**Objectives:** To map forest types, canopy density and to estimate the stand volume and biomass using microwave remote sensing technique.

**Brief Description:** It is a R&D Project in collaboration with Indian Institute of Remote Sensing (IIRS), Dehradun, Dept. of Space, Govt. of India. This study was carried out in Dudhwa Tiger reserve in U.P. Rich biodiversity makes Dudhwa forests an ideal site to investigate potential of microwave remote sensing for forest cover, stand volume and biomass assessment using ENVISAT and RADARSAT-1 data. Cloud free resourcesat-1 LISS-4 optical remote sensing data were also used to compare the results. Microwave remote sensing technique, having all weather capability, enables acquisition of desired data in any season.

### ***Funding Agency:***

Indian Institute of Remote Sensing (IIRS), Dehradun, Dept. of Space, Govt. of India,

### ***Duration:***

From October 2005 to October 2008. (Three years)

### ***Project Personal:***

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