

Bio-geo data base creation and integrated studies for development on a sustainable basis in Phakot micro-watershed, Tehri Garhwal district of Uttarakhand using satellite remote sensing and GIS techniques

Year of Starting: March, 2003

Year of Completion: March, 2007

Funding Agency & Funds Received: Dept. of Science & Technology, Govt. of India, New Delhi. Rs. 14.752 lakhs

Objectives:

- To generate the latest micro level resource maps showing the current status of different types of natural resources.
- To integrate all the spatial and non-spatial information and other collateral field data generated by different Institutions in order to prepare site specific action plans/recommendations/solutions for land and water resources development.

Study area: Phakot sub-watershed, Tehri Garhwal District, Uttarakhand.

Data Used: 3 season IKONOS satellite data of the year 2004.

Salient Results:

Natural resources information related to agriculture, forest, soil, water resources etc. have been generated and geo-referenced in Arc/Info GIS environment.

- Data related to socio-economic profile, floral and faunal bio-diversity generated by other institution under the programme have been integrated in the GIS database.
- Management plans for land and water resources development have been prepared.

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Recommendation/Special Achievement:

- For the first time large scale IKONOS satellite data have been used to generate micro level natural resources, socio-economic & bio-diversity database in GIS environment.
- Recommendation/solution provided for management of water and land resources and ultimately sustainable development of the area.

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