



**Hatfield**  
CONSULTANTS

Environmental Specialists Since 1974

# FORESTRY

*Hatfield helps you achieve ecologically sound and socially responsible forest management*

**WE PROVIDE A COMPREHENSIVE RANGE OF SERVICES TO SUPPORT THE MANAGEMENT OF NATURAL AND PLANTED FORESTS, INCLUDING:**

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Participatory forestry and multi-stakeholder assessment

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Land rehabilitation, revegetation and ecological restoration

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High conservation value (HCV) forest assessment

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Integrated watershed management

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Biodiversity assessment

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Socio-economic and cultural studies

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Remote-sensing and GIS applications

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Carbon stock assessment and forest carbon project development

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Forest plantation planning and management

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Soil analysis (physical, chemical and biological)

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Project audit, monitoring and evaluation

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Capacity-building and training

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Hatfield's combination of expertise in forestry, environmental sciences, and GIS and remote sensing allows us to provide effective and cost-efficient solutions to address a wide range of forest management challenges. We have experience in implementing a variety of forestry projects through-out the world and draw on a network of international experts and institutions to provide a broad range of expertise. Our local knowledge and on-the-ground experience enables us to effectively respond to individual project needs.

## FEATURED PROJECTS



### INTEGRATED FOREST CONSERVATION AND LAND REHABILITATION

Hatfield provided extensive technical assistance to a nickel-mining project in Central Halmahera, Indonesia, in support of efforts to mitigate the impacts of mining on local biodiversity. We implemented a series of activities, including conducting a comprehensive forest flora and fauna inventory, establishing and monitoring permanent forest plots, implementing revegetation trials, developing land rehabilitation models, and creating educational materials.



### SUSTAINABLE FOREST MANAGEMENT AND CARBON EMISSION REDUCTION

Hatfield is working with a private forestry company and WWF Indonesia to assess the potential carbon emission reduction of a sustainable forest management program modelled on Forest Stewardship Council (FSC) guidelines. As part of this project, partly funded by the European Space Agency, we are conducting land cover mapping, carbon stock assessment and landscape modelling for an active forest concession in East Kalimantan, Indonesia.



### FOREST PLANTATION MAPPING IN INDONESIA

Facilitated by extensive field surveys by our GIS and forestry specialists, Hatfield Indonesia used multi-spectral SPOT-5 satellite images, airborne radar imagery, and elevation data for a large forestry concession mapping project. We terrain-corrected the SPOT-5 imagery and created a mosaic. Spatial resolution enhancement of the multi-spectral SPOT data was completed using high-resolution radar. Image interpretation resulted in a spatial database to support timber supply management.

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## WHY HATFIELD CONSULTANTS?

Established in 1974 and based in Vancouver, Canada, Hatfield Consultants has built a worldwide reputation in environmental services with over 3,500 projects in Canada, Asia, Africa, South America, and Europe. With company offices in Canada, Indonesia, Laos, and Botswana, as well as business partners in Chile and Thailand, we are well positioned to respond to your individual project needs and requirements – wherever you are.

*We help you apply best environmental practices and contribute to a sustainable future.*