



# Ecology and Biodiversity Assessment

Earth Systems provides integrated solutions to assess, manage and monitor biodiversity values to support responsible project development. We assist organisations in identifying important biodiversity features and aligning projects with recognised international standards, enabling companies to demonstrate best practice in biodiversity management while achieving balanced outcomes for projects and the environment.

Earth Systems has been providing high-quality environmental management and planning expertise to major industries for more than 30 years. Our biodiversity and ecology specialists work in complex ecological and socio-economic settings, often in remote and challenging locations, delivering practical insights that help clients make informed decisions, achieve regulatory compliance, and demonstrate best practice in biodiversity management.

Earth Systems combines extensive international experience with strong local delivery through in-country teams and regional specialists. Our technical expertise spans terrestrial and aquatic ecology, with particular expertise in primatology, tropical rainforest and savannah ecosystems, and urban ecology. We have extensive experience applying international biodiversity standards and have supported projects funded by major institutions including the World Bank, Asian Development Bank and United Nations.

## SERVICES PROVIDED

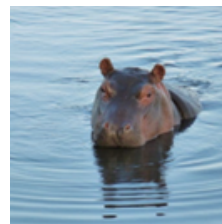
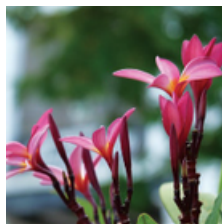
- Biodiversity baseline and impact assessments, including inputs for Environmental and Social Impact Assessments (ESIAs) and Environmental and Social Management Plans (ESMPs)
- Critical Habitat (CHA) and High Conservation Value/High Carbon Stock (HCV-HCS) assessments
- Permitting support, including alignment with international lender standards (e.g. IFC PS6, ESS6)
- Vegetation, habitat and land use mapping
- Remote sensing analysis for ecological monitoring
- Biodiversity screening and risk assessments
- Biodiversity Action Plans (BAPs)
- Biodiversity offset assessment, design and implementation
- Revegetation and ecological rehabilitation plans
- Invasive species assessment and management
- Forestry and agroforestry assessment and planning
- Stakeholder engagement and consultation, including Free, Prior and Informed Consent (FPIC)

- Marine and freshwater ecological surveys and monitoring programs
- Water quality and ecotoxicity assessments
- Benthic and bathymetric surveys, including habitat condition and health assessments
- Advanced marine and freshwater survey methodologies, including eDNA, BACI and AUSRIVAS approaches, diving operations, deployment of underwater remote vehicles and video-based data collection
- Sediment sampling and analysis, including grab sampling, coring, geochemistry and isotope dating

## PROJECT EXPERIENCE INCLUDES

Our biodiversity and ecology experts specialise in surveying areas with highly sensitive ecological values and complex and sensitive socio-economic conditions, such as the tropical rainforests of West Africa and Southeast Asia, often working in remote areas with high levels of dependence on natural resource use. Recent project experience includes:

- Technical advisory roles supporting ESIA's, environmental permitting and biodiversity management plans across a wide range of projects
- CHA and Biodiversity Action Plans for mining, energy, agroforestry and infrastructure projects across West and Central Africa and Southeast Asia
- HCV assessments and sustainable forestry projects
- Agroforestry and aquaculture projects in Central Africa and Vietnam
- Development of biodiversity and carbon offset strategies in Southeast Asia
- Freshwater and marine habitat monitoring and restoration projects in Lao PDR, Rwanda and Australia



[earthsystemsglobal.com](http://earthsystemsglobal.com)

## AUSTRALIA

[enviro@earthsystems.com.au](mailto:enviro@earthsystems.com.au)

MELBOURNE  
4/290 Salmon Street, Port  
Melbourne, VIC 3207  
+61 3 9810 7500

PERTH

BRISBANE

## EUROPE

[enviro@earthsystemseurope.com](mailto:enviro@earthsystemseurope.com)

BRISTOL  
Generator Building,  
Counterslip, Bristol BS1 6BX,  
United Kingdom  
+44 117 373 6153

## AFRICA

[enviro@earthsystemsafrika.com](mailto:enviro@earthsystemsafrika.com)

DAKAR  
3ème étage  
M&M Plaza, 5th  
floor 24W3 +JCW,  
Route de  
l'aéroport Ngor,  
Dakar Senegal  
+221 3386 83023

KIGALI  
M&M Plaza, 5th  
floor 24W3 +JCW,  
KG 8 Ave, Kigali,  
Rwanda  
+250 787 807 499

## ASIA

[enviro@earthsystemsasia.com](mailto:enviro@earthsystemsasia.com)

ABIDJAN  
II Plateaux Vallon,  
Sainte Cécile, Lot  
219, Cocody-Abidjan,  
Cote d'Ivoire  
+225 07 89 92 71 13

VIENTIANE  
Suite 801, Kolao  
Tower II, 23 Singha  
Road, Ban Nongbone,  
Vientiane, Lao PDR  
+856 (0)21 454 434

HANOI  
5th Floor, No. 85 Nguyen  
Du Street, Hai Ba Trung  
District, Hanoi, Vietnam  
+84 (0)28 3535 8200

COLOMBO

## CHINA

[enviro@earthsystems.com.cn](mailto:enviro@earthsystems.com.cn)

SHANGHAI  
Room 1105, Jing'an  
China Mansion 1701  
West Beijing Road  
Shanghai, China  
+86 216 887 2968