



proteus

# The Integrated Biodiversity Assessment Tool (IBAT)

Aime Rankin, Programme Officer, UNEP-WCMC

Alfred Muge, Associate Programme Officer, UNEP-WCMC

Shell

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# OVERVIEW

- A look at biodiversity data through IBAT
  - Introduction to the Integrated Biodiversity Assessment Tool (IBAT)
  - Overview of functionalities (live demo)



# OBJECTIVES

- At the end of the training you will be familiar with:
  - How IBAT can be used as part of the biodiversity screening process
  - How you can access and begin to use IBAT





# Introduction to the Integrated Biodiversity Assessment Tool (IBAT)

# WHAT IS IBAT?



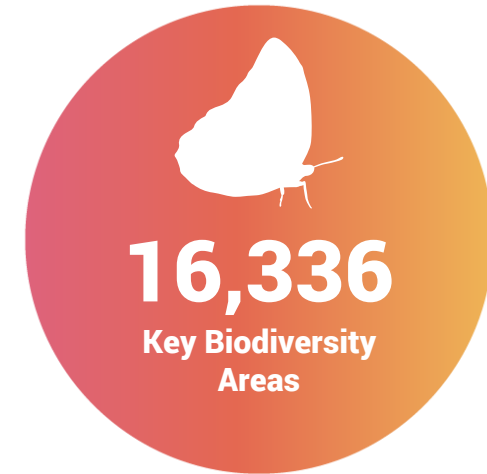
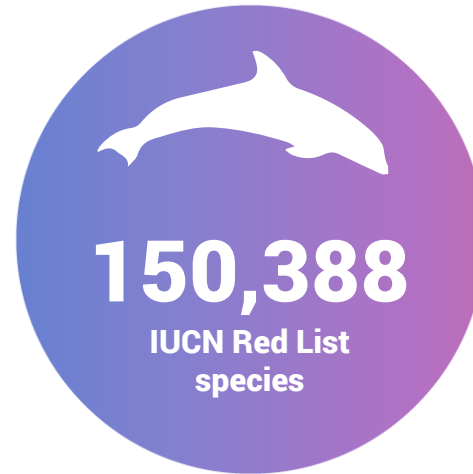
- A web-based map & reporting tool that provides fast, easy & integrated access to critical biodiversity information.
- An alliance between:
  -  CONSERVATION INTERNATIONAL
  -  IUCN
  -  BirdLife INTERNATIONAL
  -  Partnership for nature and people
  -  UN environment programme
  -  WCMC
- The source of the most globally authoritative biodiversity data:
  - The World Database on Protected Areas (WDPA)
  - The World Database of Key Biodiversity Areas
  - The IUCN Red List of Threatened Species
    - Species Threat Abatement and Restoration (STAR)
    - Rarity-weighted richness layer
- A link between the private sector and biodiversity conservation.

# IBAT DATASETS

The World Database on Protected Areas (Updated monthly)

The World Database of Key Biodiversity Areas (Updated at least 3 times a year)

The IUCN Red List of Threatened Species (Updated at least 3 times a year)



\* IBAT is the only place where each of these datasets is available for commercial users

# KEY FEATURES

## Features

- Ability to draw polylines and polygons
- Upload multiple sites (csv, shp, KMZ, KML)
- Download data per specified area
- Create portfolio of 'Projects' (sites)
- Site page giving overview of a site
- Multiple report types: Proximity, IFC PS6/World Bank ESS6, Freshwater, Multi-site
- Ability to view all data in the IBAT map

## Real-time updates

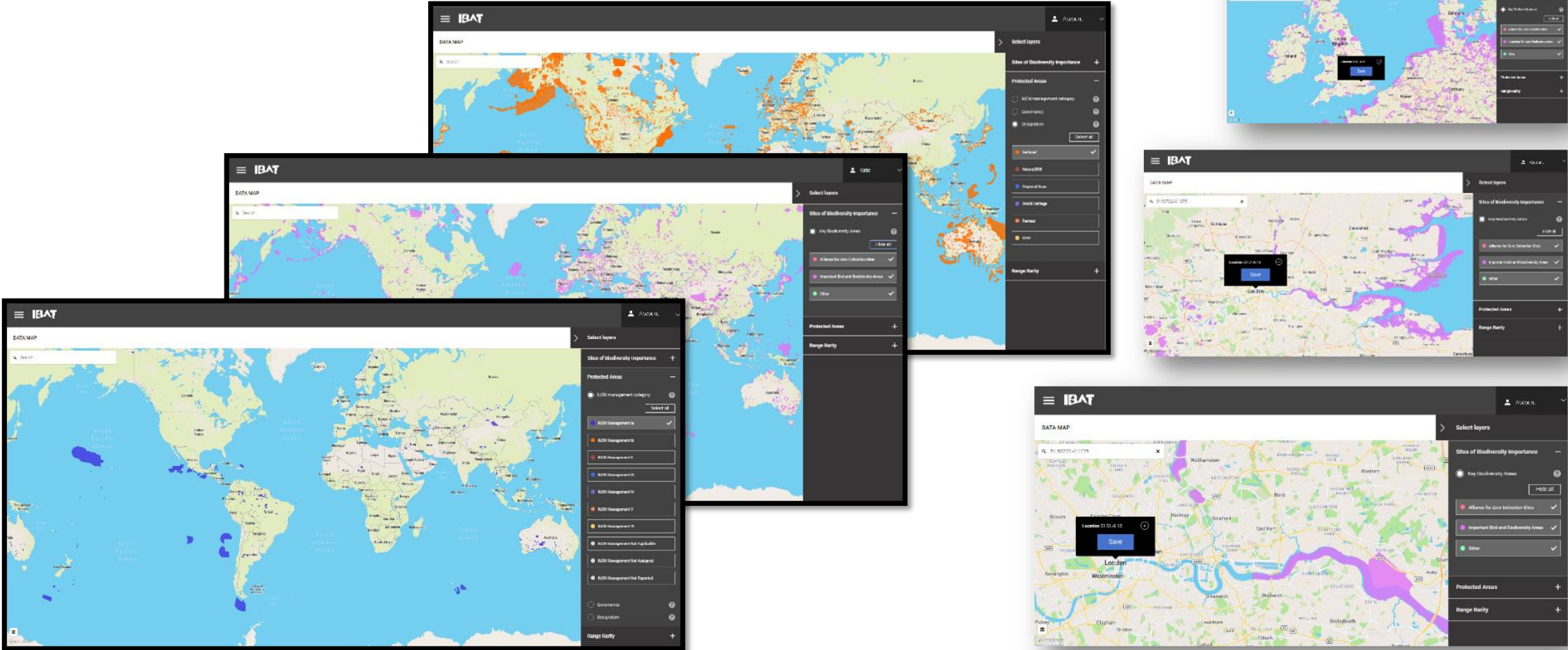
- Protected Areas
- Key Biodiversity Areas
- Red List of Species data

## Committed to continuous improvement and user support

- Fully maintained
- Scientifically robust
- Committed to innovation and new functionality

# WHAT IS AVAILABLE THROUGH IBAT?

View Data Map



# WHAT IS AVAILABLE THROUGH IBAT?

Create and save sites

The image displays two overlapping screenshots of the IBAT web application interface. The top screenshot shows a site titled 'TEST\_MAR\_19\_3' with a map of the coastal area around Skegness, featuring a green circular marker. The bottom screenshot shows a site titled 'TEST\_MAR\_19' with a map of the same area but with a green polygonal site boundary. The left sidebar of the bottom screenshot contains the following information:

- TEST\_MAR\_19**
- Location: 53, 0.4
- Size of site: 16 km<sup>2</sup>
- Date created: 2019-03-14
- Created by:
- [Create New Report](#) (button)
- [Project reports](#) (dropdown menu)

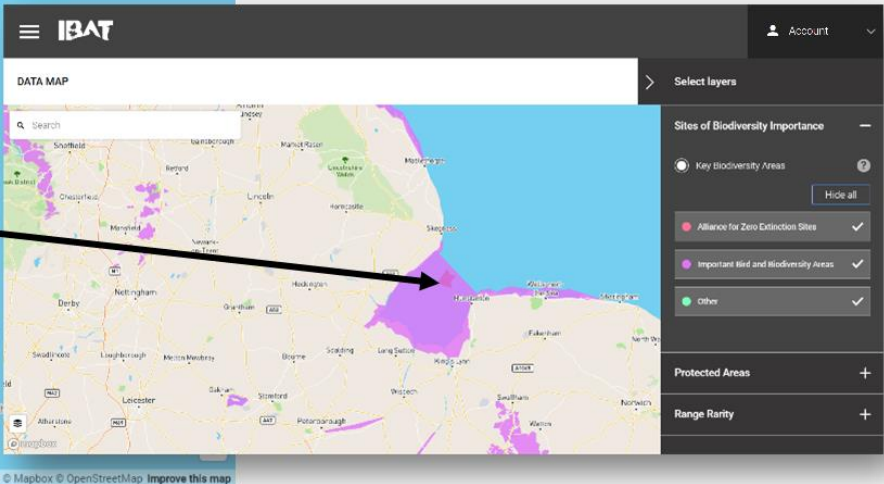
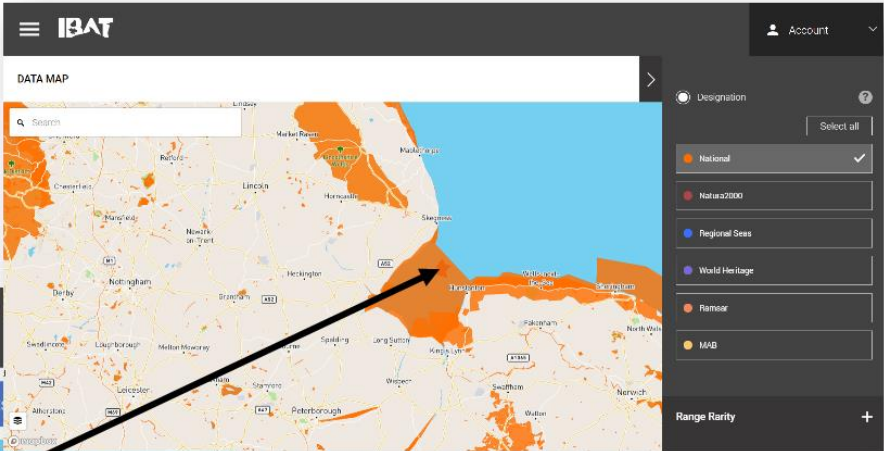
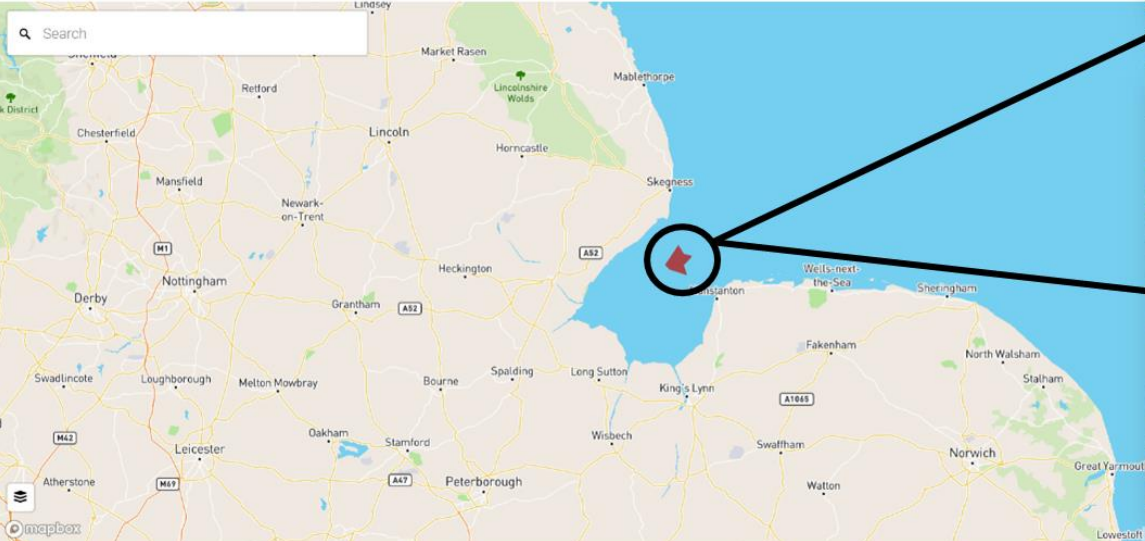
Both screenshots feature a dark header with the IBAT logo, a 'Back' button, and an 'Account' dropdown menu. The maps are provided by Mapbox and OpenStreetMap.

# WHAT IS AVAILABLE THROUGH IBAT?

## View Sites



DATA MAP



# WHAT IS AVAILABLE THROUGH IBAT?

Create projects/Add assets

The screenshot shows the IBAT dashboard interface. At the top left is the IBAT logo. At the top right, it says 'UNEP-WCMC' and 'Account'. Below the header, there are two tabs: 'PERSONAL' and 'ORGANISATION'. The main content area is titled 'Viewing dashboard for'. It features several widgets: a 'Projects' widget with a count of 31 (highlighted with a red box), a 'Reports' widget with a count of 17, a 'GIS downloads' widget with a count of 3, a 'Data map' widget with a world map, a 'Country Profiles' widget with a map of South America, and 'Settings' and 'Help' links. Below these are two charts: 'Projects in last year' (a bar chart showing counts for each month) and 'Reports by type' (a donut chart with categories: Multi-site, Freshwater, PS6 & ESS6, and Proximity). At the bottom left is a treemap chart titled '31 projects in 24 countries'. At the bottom right is a table titled 'Recent Projects'.

Recent Projects	PAs	Red List	KBAs	Created
	17	2392	5	19 Oct 2020
	104	1330	11	12 Oct 2020
	15	2110	6	03 Apr 2020
	45	1022	11	02 Apr 2020

# WHAT IS AVAILABLE THROUGH IBAT?

## Create reports

The screenshot shows the IBAT dashboard interface. At the top left is the IBAT logo. At the top right, it says 'UNEP-WCMC' and 'Account'. Below the header, there are two tabs: 'PERSONAL' and 'ORGANISATION'. The main content area is titled 'Viewing dashboard for'. It features several widgets: 'Projects' (31), 'Reports' (17, highlighted with a red box), 'GIS downloads' (3), 'Data map', 'Country Profiles', 'Settings', and 'Help'. Below these are two charts: 'Projects in last year' (a bar chart) and 'Reports by type' (a donut chart). At the bottom, there is a treemap chart titled '31 projects in 24 countries' and a table titled 'Recent Projects'.

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	45	1022	11	02 Apr 2020

# WHAT IS AVAILABLE THROUGH IBAT?

## Download data

The screenshot shows the IBAT dashboard interface. At the top, there is a navigation bar with the IBAT logo on the left, 'UNEP-WCMC' in the center, and 'Account' on the right. Below the navigation bar, the dashboard is divided into several sections:

- Summary Cards:** Three cards at the top left show 'Projects' (31), 'Reports' (17), and 'GIS downloads' (3). The 'GIS downloads' card is highlighted with a red border.
- Navigation:** A row of buttons includes 'Data map', 'Country Profiles', 'Settings', and 'Help'.
- Charts:** A bar chart titled 'Projects in last year' shows data for months from Nov to Oct. A donut chart titled 'Reports by type' shows categories: Multi-site, Freshwater, PS6 & ESS6, and Proximity.
- Table:** A table titled 'Recent Projects' lists project details.

Recent Projects	PAs	Red List	KBAs	Created
	17	2392	5	19 Oct 2020
	104	1330	11	12 Oct 2020
	15	2110	6	03 Apr 2020
	45	1022	11	02 Apr 2020

# Integrated Biodiversity Assessment Tool

The world's most authoritative biodiversity data for your world-shaping decisions

[Create account](#)

**STAR** STAR is now available in IBAT!



Last data update  
01/10/2021



## Demo

Bringing Data to Life

[Sample Reports](#)

# IBAT REPORTS

## Proximity Reports

- High-level early stage biodiversity risk screening for a single site.
- Buffers from 1 to 50 km.
- Assess for overlap with:
  - Protected Areas.
  - Key Biodiversity Areas.
  - IUCN Red List species.

Create Report

Select Report Type

Freshwater Multi-site **Proximity**

PS6 & ESS6

Select Project

Please select an option

Select Buffers (km)

Hold down Ctrl or ⌘ to select up to 3 buffers.

Please select between 1 and 3 options

1 2 3 4 5

Create Cancel

Require further information on the reports IBAT offers? Head over to our [examples page](#) for a detailed explanation of each report and a downloadable example.



## Integrated Biodiversity Assessment Tool PROXIMITY REPORT TRAINING\_TEST\_1

Country: Mozambique  
Location: [-25.9, 32.6]  
Date of analysis: 11 January 2022 (GMT)  
Buffers applied: 1 km | 10 km | 50 km  
IUCN Red List Biomes: Marine, Freshwater, Terrestrial  
Generated by: Aime Rankin  
Organisation: UNEP-WCMC

### Overlaps with:

Protected Areas	5
Key Biodiversity Areas	6
IUCN Red List	137



Displaying project location and buffers: 1 km, 10 km, 50 km

# IBAT REPORTS

## Freshwater Reports

- High-level early stage biodiversity risk screening for a single site with potential to impact freshwater ecosystems.
- Upstream and downstream buffers.
- Point features only.

Create Report

Select Report Type

Freshwater Multi-site Proximity

PS6 & ESS6

Select Project

Please select a project that has a point geometry. A freshwater report cannot be generated for polylines or polygons.

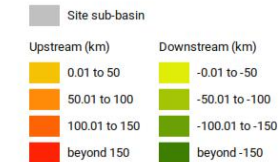
Define the upstream and downstream range for the report below.

Upstream (KM)		Downstream (KM)	
Zone	Distance	Zone	Distance
1	50	1	50
2	100	2	100
3	150	3	150
4	Beyond Zone 3	4	Beyond Zone 3

Create Cancel

IBAT

Upstream beyond 150



# IBAT REPORTS

## World Bank Group Risk Reports

- High-level early stage biodiversity risk screening for a single site with specific reference to PSS6 and ESS6.
- Assesses Critical habitat likelihood.
- Buffers pre-defined at 10 and 50 km.
- Biodiversity features likely to trigger Critical Habitat
  - Protected Areas
  - Key Biodiversity Areas
  - IUCN Red List

Create Report

Select Report Type

Freshwater Multi-site Proximity

PS6 & ESS6

Select Project

Please select an option

Create Cancel

Require further information on the reports IBAT offers? Head over to our [examples page](#) for a detailed explanation of each report and a downloadable example.



## Integrated Biodiversity Assessment Tool World Bank Group Biodiversity Risk Screen

### TRAINING\_TEST\_1

- Country: Mozambique
- Location: [-25.9, 32.6]
- IUCN Red List Biomes: Marine, Freshwater, Terrestrial
- Created by: Aime Rankin

#### Overlaps with:

Protected Areas	1 km: 0	10 km: 1	50 km: 4	5
World Heritage (WH)	1 km: 0	10 km: 0	50 km: 0	0
Key Biodiversity Areas	1 km: 0	10 km: 1	50 km: 5	6
Alliance for Zero Extinction (AZE)	1 km: 0	10 km: 0	50 km: 1	1
IUCN Red List				64
Critical Habitat				Likely



Displaying project location and buffers: 1 km, 10 km, 50 km



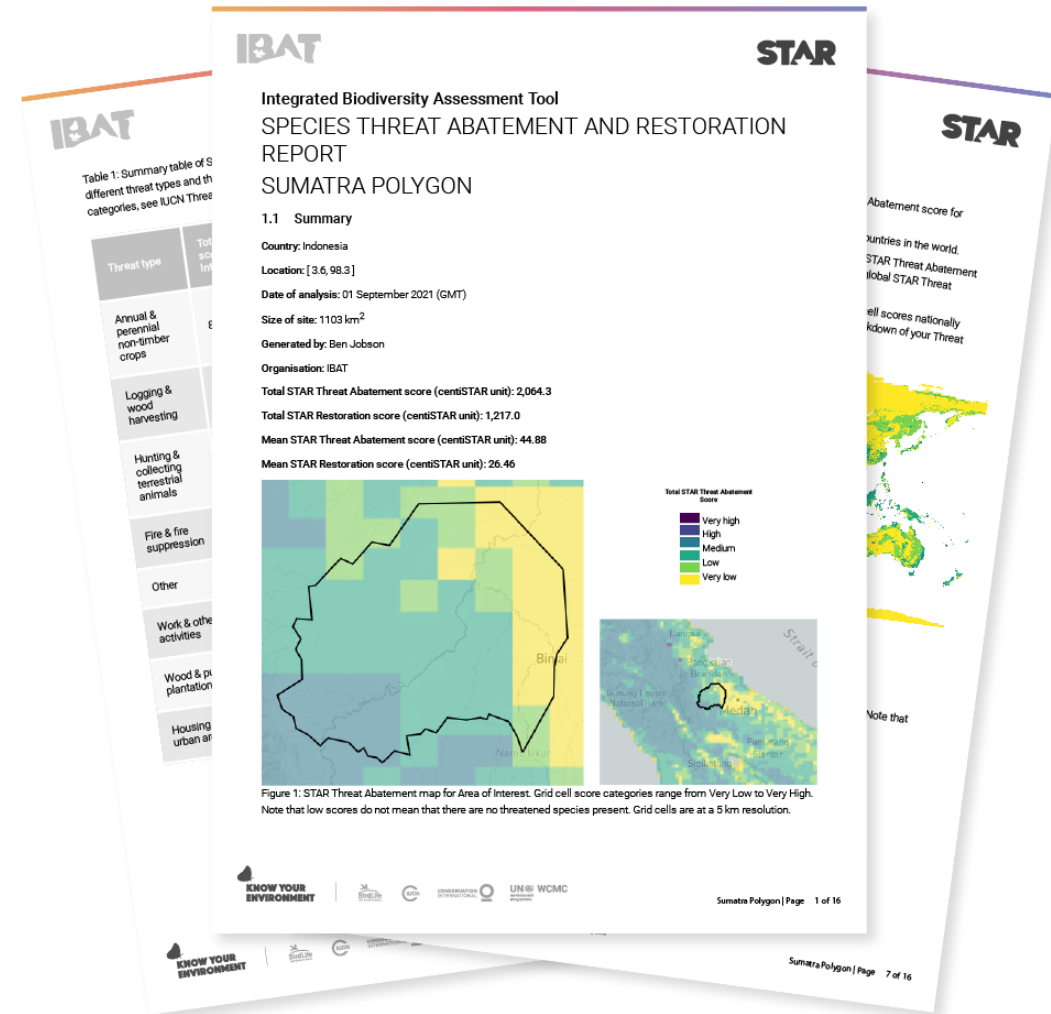
This report is based on IFC Performance Standard 6 (PS6) but applies to World Bank Environmental and Social Standard 6 (ESS6)



# IBAT REPORTS

## STAR Report

- Define your Area of Interest (project site)
- IBAT generates bespoke STAR report for your chosen location
- Report provides a detailed breakdown of the STAR values, threats and their relative significance at national and global scales



# SPECIES THREAT ABATEMENT AND RESTORATION METRIC (STAR)

**IBAT**  
**Integrated Biodiversity Assessment Tool**  
**SPECIES THREAT ABATEMENT AND RESTORATION REPORT**  
**SUMATRA STAR POLYGON**

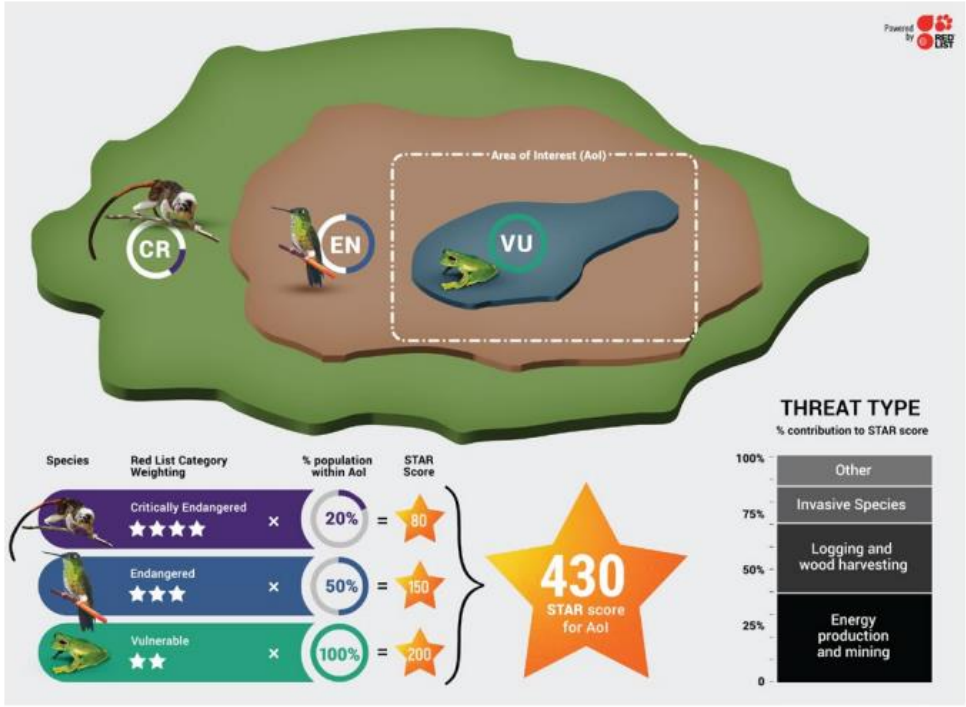
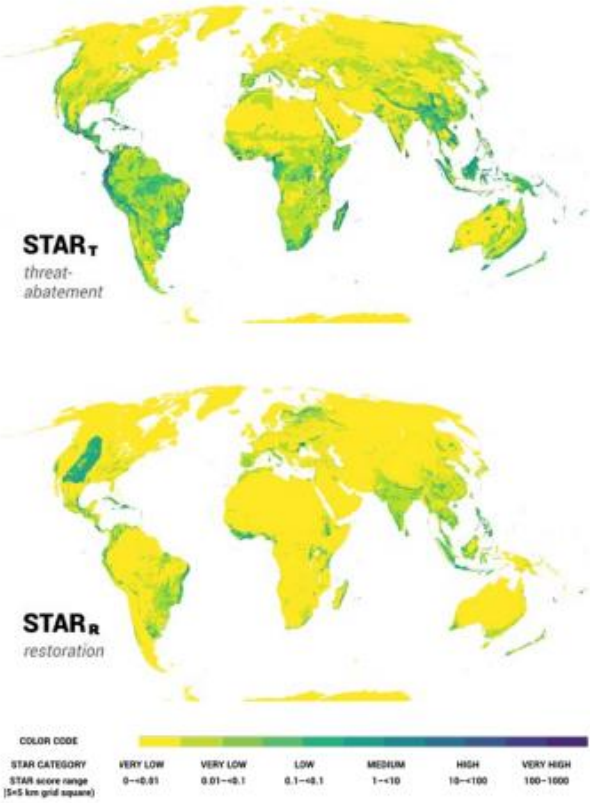
**1.1 Summary**

Country: Indonesia  
 Location: [3.6, 98.3]  
 Date of analysis: 17 June 2021 (GMT)  
 Size of site: 1166 km<sup>2</sup>  
 Generated by: Ben Jobson  
 Organisation: IBAT

Total STAR Threat Abatement score (centiSTAR unit): 2,086.82  
 Total STAR Restoration score (centiSTAR unit): 1,263.06  
 Mean STAR Threat Abatement score (centiSTAR unit): 44.4  
 Mean STAR Restoration score (centiSTAR unit): 26.87

Figure 1: STAR Threat Abatement map for Area of Interest. Grid cell score categories range from Very Low to Very High. Note that low scores do not mean that there are no threatened species present. Grid cells are at a 5 km resolution.

SHOW YOUR ENVIRONMENT | UN WCMC | Sumatra STAR Polygon | Page 1 of 10





Thank you

**UN**   
**environment  
programme**

**WCMC**