



proteus

Introducción a IBAT

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BHP

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Introducción a la Herramienta Integrada de Evaluación de
la Biodiversidad

Integrated Biodiversity Assessment Tool (IBAT)

QUÉ ES IBAT?

- Una herramienta web de generación de informes y mapas que brinda acceso rápido, fácil e integrado a información crítica sobre biodiversidad.

- Una alianza entre:

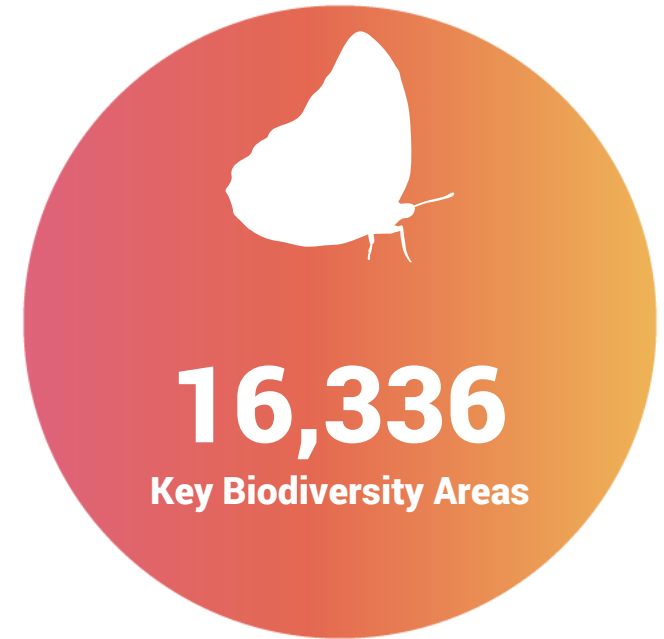


Partnership for
nature and people



- Contiene las fuentes más confiables y completas en cuanto a datos de biodiversidad:
- La Base de Datos Mundial sobre Áreas Protegidas (WDPA)
 - La Base de Datos Mundial de Áreas Claves de Biodiversidad (KBA)
 - La Lista Roja de la UICN
 - Métrica de Reducción y Restauración de Amenazas de Especies, *Species Threat Abatement and Restoration* (STAR)
- Un vínculo entre el sector privado y la conservación de la biodiversidad.

LAS BASES DE DATOS DE IBAT



* IBAT es el único lugar donde cada uno de estos conjuntos de datos está disponible para usuarios comerciales

CARACTERÍSTICAS CLAVE DE IBAT

Características

- Capacidad para dibujar polilíneas y polígonos
- Capacidad para cargar diversos tipos de formato (csv, shp, KMZ, KML)
- Descargar data específica por área
- Crear portafolios de “Proyectos” (sitios)
- Se puede visualizar un panorama general del sitio
- Generación de múltiples tipos de reporte: *Proximity*, IFC PS6/World Bank ESS6, *Freshwater*, *Multi-site*.
- Capacidad para ver todos los datos en el mapa IBAT

Actualizaciones en tiempo real

- Áreas Protegidas
- Áreas Claves de Biodiversidad (KBAs)
- Datos de la Lista Roja de la UICN
- Métrica de Reducción y Restauración de Amenazas de Especies (STAR)

Comprometidos con la mejora continua y el soporte al usuario

- Mantenimiento continuo del sitio
- Científicamente robusto
- Comprometido con la innovación y con el Desarrollo de nuevas funciones

REPORTES DE IBAT

Reportes de proximidad

- Detección temprana de riesgos de biodiversidad para sitios específicos en etapas preliminares de evaluación (*screening*).
- Buffers de 1 a 50 km.
- Evaluar traslapes con:
 - Áreas Protegidas
 - Áreas Claves de Biodiversidad
 - La Lista Roja de la UICN.

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

REPORTES DE IBAT

Ecosistemas de agua dulce

- Detección temprana de riesgos de biodiversidad para sitios específicos en etapas preliminares de evaluación (*screening*) con potencial de impactar ecosistemas de agua dulce.
- Buffers de (rio arriba) *Upstream* y (rio abajo) *downstream*.
- Maneja entidades de puntos (x,y).

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.

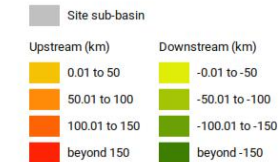
Define the upstream and downstream range for the report below.

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



REPORTE DE IBAT

Reporte de Riesgos del Grupo del Banco Mundial

- Detección temprana de riesgos de biodiversidad para sitios específicos en etapas preliminares de evaluación (*screening*) con referencias específicas a PS6 y ESS6.
- Evalúa la posibilidad de ecosistemas críticos.
- Buffers pre-definidos a 10 y 50 km.

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)

REPORTES DE IBAT

Multisitio (*Multi Site*)

- Los reportes multisitio de IBAT están diseñados para ayudar a las empresas a reportar a GRI/SASB y esquemas de certificación.
- El Fundamento GRI 304-1 identifica operativos en propiedad, arrendados o administrados en o adyacentes a áreas protegidas y Áreas Claves para la Biodiversidad (KBA) fuera de las áreas protegidas.
- El Fundamento GRI 304-4 -> identificar la presencia de especies en la Lista Roja de la UICN y especies en listas nacionales de conservación con habitats afectados por operaciones.

Site	Area (km ²)	Protected Areas	KBAs
Training_test_1	0	5	6
Training_test_2	0	173	20



Overlap with protected areas and Key Biodiversity Areas (KBAs)

The following table shows the number of protected areas and KBAs overlapped by a 50.0 km buffer for each operational site where an overlap occurs.

Site	Area (km ²)	Protected Areas	KBAs
Training_test_1	0	5	6
Training_test_2	0	173	20

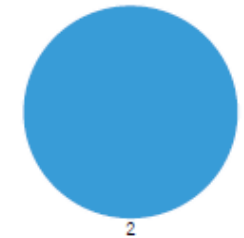
% Summary of protected areas overlap



2 (100.00% of sites) are within 50.0 km of a protected area.

0 (0.00% of sites) are not within 50.0 km of a protected area.

% Summary of KBAs overlap



2 (100.00% of sites) are within 50.0 km of a Key Biodiversity Area.

0 (0.00% of sites) are not within 50.0 km of a Key Biodiversity Area.

MÉTRICA DE SPECIES THREAT ABATEMENT AND RESTORATION (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 km²
 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

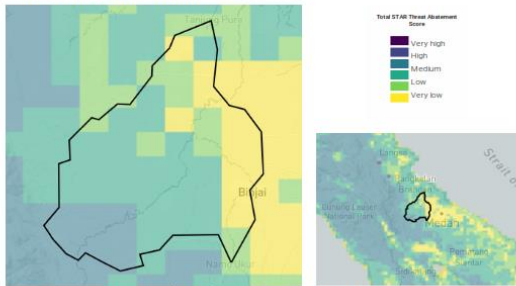
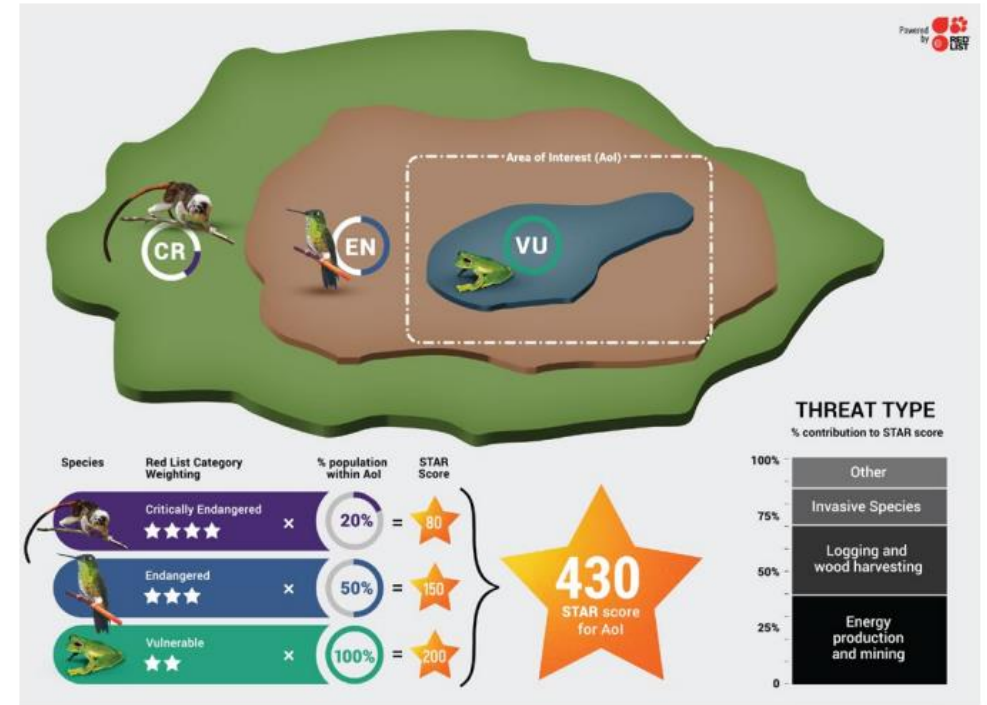
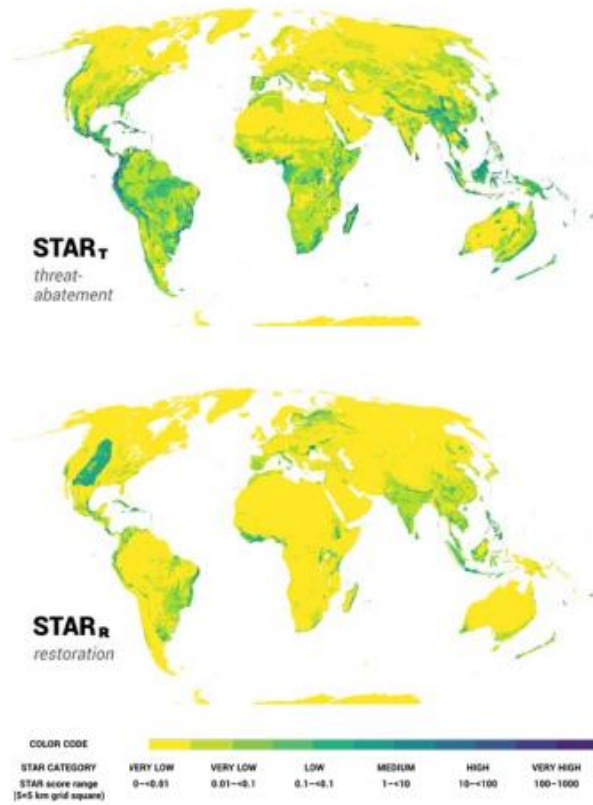


Figure 1: STAR Threat Abatement map for Area of Interest. Grid cell score categories range from Very Low to Very High. Note that low scores do not mean that there are no threatened species present. Grid cells are at a 5 km resolution.





Profundización: Cargando proyectos con geometrias complejas

CARGA DE DOCUMENTOS

Documentos que soporta:

- ESRI *shapefile*
- KMZ
- KML
- CSV

Otras consideraciones importantes:

- Caracteres desconocidos son marcados con este símbolo (◆).
- Capacidad para editar nombres de proyectos desde la pantalla del proyecto.
- Cuando existen CSV con errores, se muestra un mensaje para funciones no válidas.
- No salirse de la página cuando se está cargando un documento.

Requerimientos de los archivos

- Hasta 3,000 geometrías individuales
- Geometrías individuales interpretadas como archivos separados
- El tamaño límite del archivo es de 25 MB
- Un nombre por proyecto

CARGA DE DOCUMENTOS

Requerimientos específicos de archivo

- *ESRI shapefile*
 - Formato de carga – .zip
 - Proyección requerida – 'WGS 1984'
 - Archivos mandatorios – **.shp .shx .prj .dbf**
 - **Archivos opcionales** – **.shp .shx .prj .dbf**
- **KMZ**
 - Formato de carga– .kmz
 - Archivos mandatorios– .kml
 - **Archivos opcionales**– .jpg .jpeg .png .svg
- **KML**
 - Formato de carga– .kml
- **CSV**
 - Solo geometrías de puntos
 - Coordenadas en grados decimales
 - Solo caracteres alfanuméricos, guiones y guiones bajos "-_" o espacios
 - Nombres – menos de 40 caracteres de largo (incluyendo espacios)
 - Formato de carga – .csv

ARCHIVO MUESTRA 1

LOLM_SPC_Mayo2023

Error 1

- Problema: Archivo no soportado
'File projection not supported ('32719' also known as 'WGS 1984 UTM Zone 19S').
- Solución: Use '4326' también conocido como proyección 'GCS_WGS_1984'.

The screenshot shows the IBAT upload interface. At the top, there are 'Draw' and 'Upload' buttons. Below them, text states: 'IBAT supports uploading up to 3000 project geometries directly from ESRI Shapefile, KML/KMZ and CSV files. Expand an option below for further information on uploading each format.'

ESRI Shapefile	+
KMZ	+
KML	+
CSV	+

Learn more about file formatting ?

A file named 'LOLM_SPC_Mayo2023.zip' is shown in the upload area with a red error message: 'Error uploading file'. Below it is a 'Processing' button with a loading icon.

Your file is being processed, please do not navigate away from the page.

An 'UPLOAD ERROR' dialog box is displayed over the map, containing the text: 'There was a problem processing your file. Your file projection 32719 is not supported, please ensure your file is using the [WGS 84 projection](#).' and an 'OK' button.

The background is a map of the North Atlantic Ocean region, showing Canada, United States, and Argentina. A search bar is at the top left of the map, and a 'mapbox' logo is at the bottom right.

ARCHIVO MUESTRA 1

LOLM_SPC_Mayo2023

Error 2

- Problema: archivo con geometría multiparte
- Solución: Conversión de *Multipart* a *Singlepart*.

The screenshot displays the IBAT web interface for uploading files. At the top, there are two tabs: "Draw" and "Upload". Below the tabs, a text block states: "IBAT supports uploading up to 3000 project geometries directly from ESRI Shapefile, KML/KMZ and CSV files. Expand an option below for further information on uploading each format." Below this text is a list of supported file formats with expandable options (indicated by plus signs):

ESRI Shapefile	+
KMZ	+
KML	+
CSV	+

Below the list is a link: "Learn more about file formatting ?". A file upload progress bar is visible, showing the file name "LOLM_SPC_Mayo2023_projected.zip" and a red error message: "Error uploading file". Below the progress bar is a "Processing" button with a circular arrow icon. At the bottom of the interface, a message reads: "Your file is being processed, please do not navigate away from the page." On the right side, a map of the North Atlantic Ocean is visible, showing Canada, the United States, and Argentina. An "UPLOAD ERROR" dialog box is overlaid on the map, containing the following text:

UPLOAD ERROR

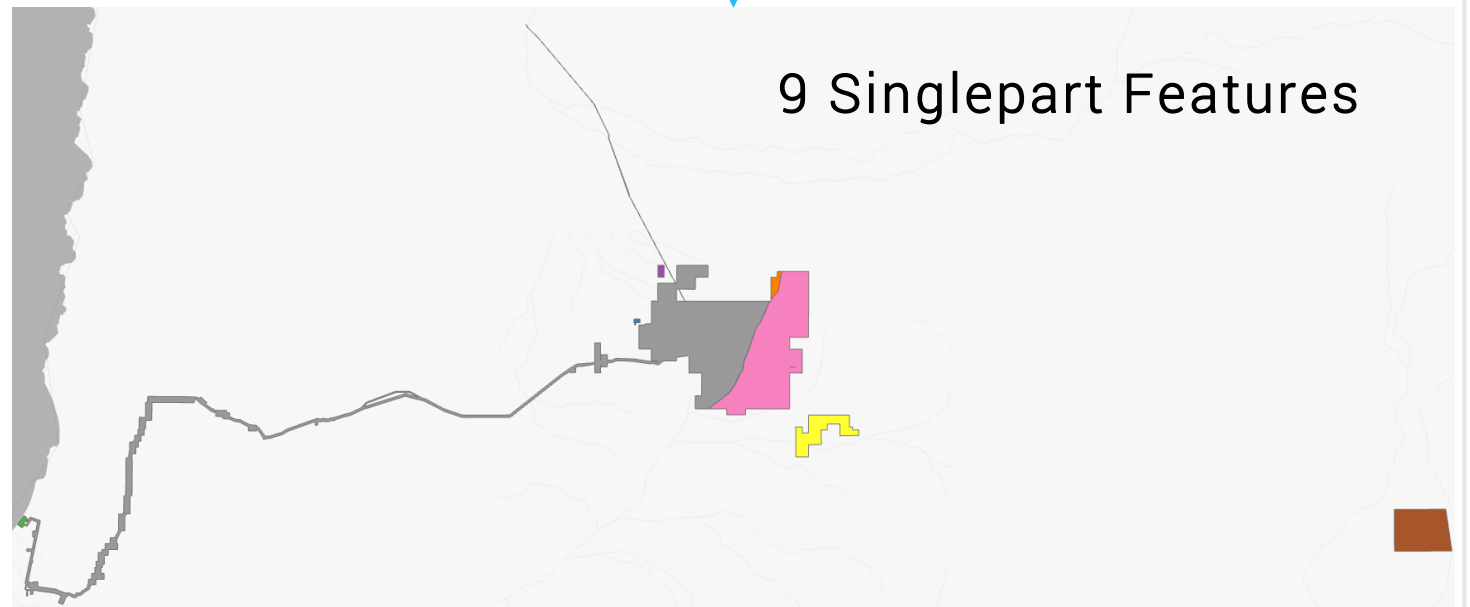
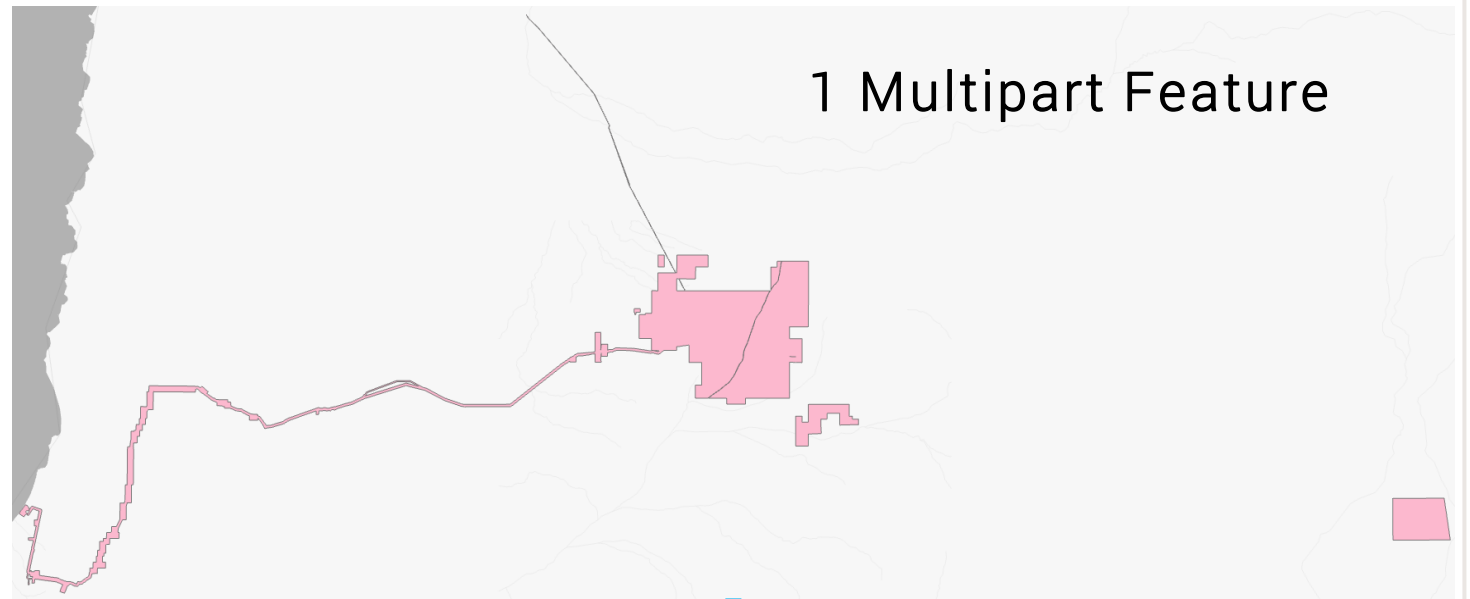
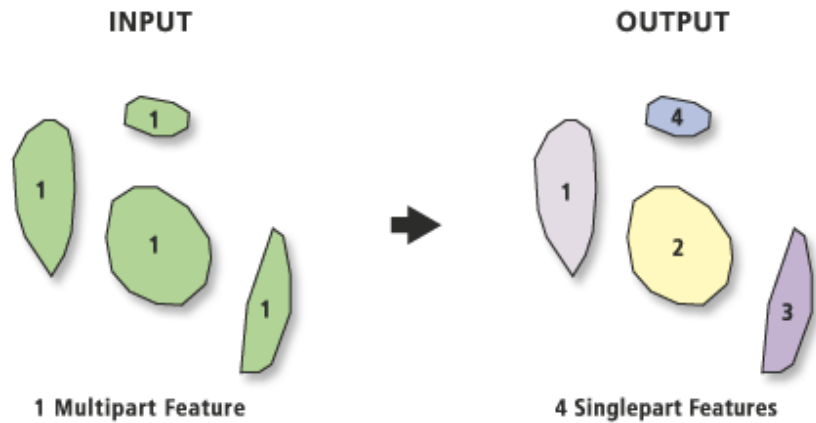
There was a problem processing your file.

Invalid features are present, please refer to the file specifications to ensure your file complies to the requirements.

Buttons: **OK** and [Download error CSV](#)

ARCHIVO MUESTRA1

Conversión Multiparte a piezas únicas (*Singlepart*)



ARCHIVO MUESTRA1

Las 9 secciones de proyectos/activos/sitios ahora pueden ser importados.

Los nombres de cada geometría pueden ser añadidos antes o después de ser cargados a IBAT.

The screenshot displays the IBAT web interface. At the top, there are two tabs: "Draw" and "Upload". Below the tabs, a text block states: "IBAT supports uploading up to 3000 project geometries directly from ESRI Shapefile, KML/KMZ and CSV files. Expand an option below for further information on uploading each format." Below this text is a list of file formats with expandable options:

ESRI Shapefile	+
KMZ	+
KML	+
CSV	+








Below the list is a link: "Learn more about file formatting ?". A file upload progress bar is shown with the filename "LOLM_SPC_Mayo2023_projected_dissolved.zip" and a "Complete!" status. Below the progress bar is a "Processing" button with a circular arrow icon. A message at the bottom of the upload area reads: "Your file is being processed, please do not navigate away from the page." On the right side of the interface, a map of the North Atlantic Ocean is visible. A "CONFIRM IMPORT" dialog box is overlaid on the map, containing the text: "9 projects will be imported. Please click confirm to complete the process or cancel to abort." The dialog has three buttons: "Confirm and create portfolio", "Confirm and skip portfolio", and "Cancel".

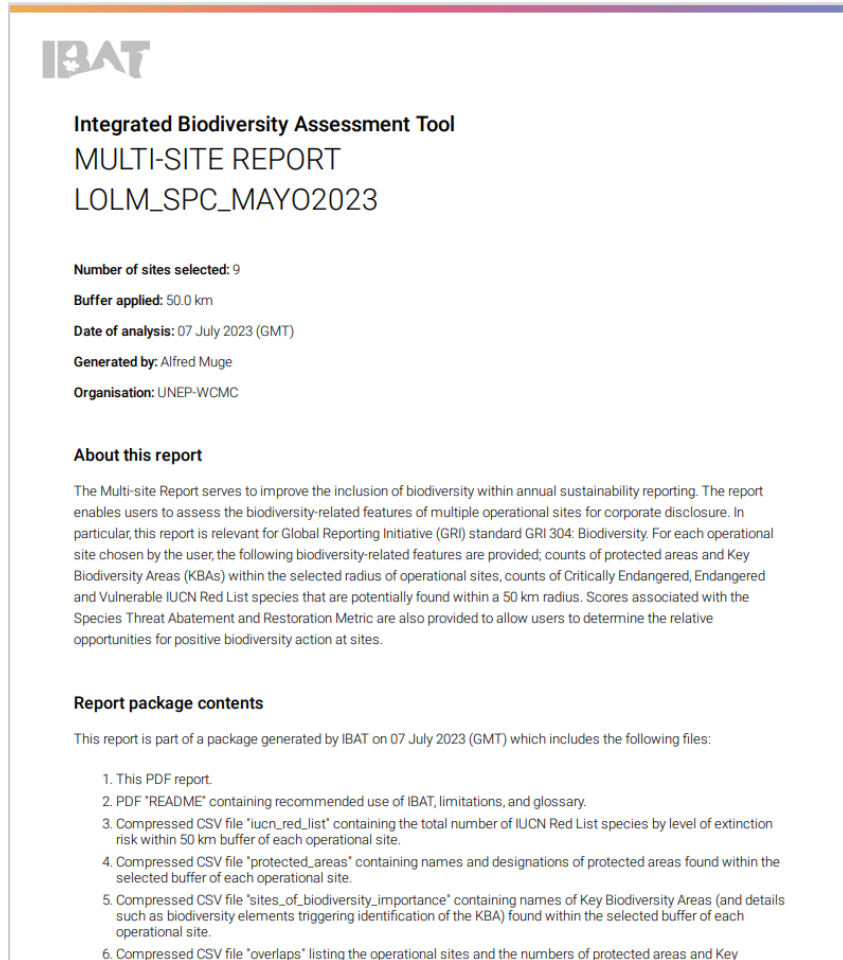
ARCHIVO MUESTRA 1 – REPORTES DE IBAT (EJEMPLO)

El sitio ahora puede ser usado en IBAT

e.j. Al ejecutar un reporte multi-sitio, la plataforma entrega una carpeta comprimida con los siguientes archivos:

Name

-  iucn_red_list
-  LOLM_SPC_Mayo2023_multi_site_ibat
-  overlaps_data
-  protected_areas
-  README
-  sites_of_biodiversity_importance
-  species_threat_abatement_and_restoration_star



The screenshot shows the header of an IBAT report. It includes the IBAT logo, the title 'Integrated Biodiversity Assessment Tool MULTI-SITE REPORT', and the specific report name 'LOLM_SPC_MAYO2023'. Below the title, it lists key parameters: 'Number of sites selected: 9', 'Buffer applied: 50.0 km', 'Date of analysis: 07 July 2023 (GMT)', 'Generated by: Alfred Muge', and 'Organisation: UNEP-WCMC'. The 'About this report' section explains that the report is for GRI 304 Biodiversity and provides details on the data included, such as protected areas, IUCN Red List species, and Key Biodiversity Areas. The 'Report package contents' section lists six files included in the report package.

IBAT

Integrated Biodiversity Assessment Tool
MULTI-SITE REPORT
LOLM_SPC_MAYO2023

Number of sites selected: 9
Buffer applied: 50.0 km
Date of analysis: 07 July 2023 (GMT)
Generated by: Alfred Muge
Organisation: UNEP-WCMC

About this report

The Multi-site Report serves to improve the inclusion of biodiversity within annual sustainability reporting. The report enables users to assess the biodiversity-related features of multiple operational sites for corporate disclosure. In particular, this report is relevant for Global Reporting Initiative (GRI) standard GRI 304: Biodiversity. For each operational site chosen by the user, the following biodiversity-related features are provided; counts of protected areas and Key Biodiversity Areas (KBAs) within the selected radius of operational sites, counts of Critically Endangered, Endangered and Vulnerable IUCN Red List species that are potentially found within a 50 km radius. Scores associated with the Species Threat Abatement and Restoration Metric are also provided to allow users to determine the relative opportunities for positive biodiversity action at sites.

Report package contents

This report is part of a package generated by IBAT on 07 July 2023 (GMT) which includes the following files:

1. This PDF report.
2. PDF "README" containing recommended use of IBAT, limitations, and glossary.
3. Compressed CSV file "iucn_red_list" containing the total number of IUCN Red List species by level of extinction risk within 50 km buffer of each operational site.
4. Compressed CSV file "protected_areas" containing names and designations of protected areas found within the selected buffer of each operational site.
5. Compressed CSV file "sites_of_biodiversity_importance" containing names of Key Biodiversity Areas (and details such as biodiversity elements triggering identification of the KBA) found within the selected buffer of each operational site.
6. Compressed CSV file "overlaps" listing the operational sites and the numbers of protected areas and Key

ARCHIVO MUESTRA2

UNION_BIENRAIZ_CONC
EXPLOTT_SERVIDUMBRE

Error 1

- Problema: Archivo no permitido con extensión "*unpermitted file with extension (.kml)*".
- Solución: Borrar la extensión no permitida del archivo ZIP (e.g., .kml).

The screenshot displays the IBAT web application interface. At the top, there are two tabs: "Draw" and "Upload", with "Upload" being the active tab. Below the tabs, a text block states: "IBAT supports uploading up to 3000 project geometries directly from ESRI Shapefile, KML/KMZ and CSV files. Expand an option below for further information on uploading each format." Below this text is a list of supported file formats with expandable options (indicated by plus signs): ESRI Shapefile, KMZ, KML, and CSV. A link "Learn more about file formatting" is provided. A file upload area shows a file named "UNION_BIENRAIZ_CONCEXPLOTT_SERVIDUMBRE.zip" with a red error message: "Error uploading file". Below the file name is a "Processing" button. A modal dialog box titled "UPLOAD ERROR" is overlaid on the right side of the screen, containing the text: "There was a problem processing your file. Unpermitted file with extension .kml" and an "OK" button. The background shows a map of the Americas and the Atlantic Ocean.

ARCHIVO MUESTRA2

UNION_BIENRAIZ_CONCE
XPLOT_SERVIDUMBRE

Error 2

- **Problema:** Archivo no soportado '*File projection not supported*' ('32719' también conocido como 'WGS 1984 UTM Zone 19S').
- **Solución:** Convertir a '4326' también conocido como proyección 'GCS_WGS_1984'.

The screenshot displays the IBAT web interface. At the top, there are two tabs: 'Draw' and 'Upload'. Below the tabs, a text block states: 'IBAT supports uploading up to 3000 project geometries directly from ESRI Shapefile, KML/KMZ and CSV files. Expand an option below for further information on uploading each format.' Below this text is a list of supported file formats with expandable options (indicated by '+' signs): ESRI Shapefile, KMZ, KML, and CSV. A link 'Learn more about file formatting' is provided. A file upload area shows a file named 'UNION_BIENRAIZ_CONCEXPLOT_SERVIDUMBRE.zip' with a red error message: 'Error uploading file'. Below the file name is a 'Processing' button. A modal dialog box is open in the foreground, titled 'UPLOAD ERROR', with the message: 'There was a problem processing your file. Unpermitted file with extension .kml'. An 'OK' button is visible in the dialog. The background shows a map of the North Atlantic Ocean region with labels for Canada, United States, Mexico, United Kingdom, France, Spain, Morocco, Algeria, Mali, Niger, Guinea, Ghana, Paraguay, Argentina, Falkland Islands (Islas Malvinas), and Scotia Sea. A search bar is at the top right, and a scale bar (1000km) and Mapbox logo are at the bottom right.

ARCHIVO MUESTRA 2

UNION_BIENRAIZ_CONCEXP
LOT_SERVIDUMBRE

Error 3

- **Problema:** Archivos con geometría multiparte y con nombre largo.
- **Solución:** Conversión de archivo Multiparte a pieza única (*Singlepart*) y cambiar el nombre del archivo.

The screenshot displays the IBAT web interface. At the top, there are 'Draw' and 'Upload' tabs. Below them, a text block states: 'IBAT supports uploading up to 3000 project geometries directly from ESRI Shapefile, KML/KMZ and CSV files. Expand an option below for further information on uploading each format.' A list of file formats is shown with expandable options: ESRI Shapefile, KMZ, KML, and CSV, each with a '+' icon. A link 'Learn more about file formatting' is present. A file upload area shows a file named 'UNION_BIENRAIZ_CONCEXPLOT_SERVIDUMBRE_projected.zip' with a red error message 'Error uploading file' below it. A 'Processing' button is visible. At the bottom, a message reads: 'Your file is being processed, please do not navigate away from the page.' On the right, a map of the North Atlantic Ocean is shown. An 'UPLOAD ERROR' dialog box is overlaid on the map, containing the text: 'There was a problem processing your file. Invalid features are present, please refer to the file specifications to ensure your file complies to the requirements.' The dialog has an 'OK' button and a 'Download error CSV' link.

ARCHIVO

MUESTRA 2

UNION_BIENRAIZ_CONCEXP
LOT_SERVIDUMBRE

Error 4

- **Problema:** El archivo excede las 3,000 piezas únicas "*File exceeds 3,000 singlepart features*".
- **Solución:** Combinar y nombrar algunas funcionalidades de condiciones similares.

The screenshot displays the IBAT web application interface. At the top, there are two tabs: "Draw" and "Upload". Below the tabs, a text block states: "IBAT supports uploading up to 3000 project geometries directly from ESRI Shapefile, KML/KMZ and CSV files. Expand an option below for further information on uploading each format." Below this text is a list of file formats with expandable options: ESRI Shapefile, KMZ, KML, and CSV, each with a "+" icon. A link "Learn more about file formatting" is also present. A file upload area shows a file named "UNION_BIENRAIZ_CONCEXPLOT_SERVIDUMBRE_dissolved.zip" with a red error message: "Error uploading file". Below the file name is a "Processing" button with a loading icon. A message at the bottom of the upload area reads: "Your file is being processed, please do not navigate away from the page." On the right side of the interface, a map of the North Atlantic Ocean is visible, showing parts of Canada, the United States, and Argentina. A search bar is located at the top of the map. An "UPLOAD ERROR" dialog box is overlaid on the map, containing the text: "There was a problem processing your file. The number of features in your file exceeds the maximum number allowed for your account (3000)." and an "OK" button.

ARCHIVO MUESTRA 2

UNION_BIENRAIZ_CONCEXP
LOT_SERVIDUMBRE

Error 4 (Ejemplos de
archivos)

- Combinar sitios cercanos creando un sólo polígono.








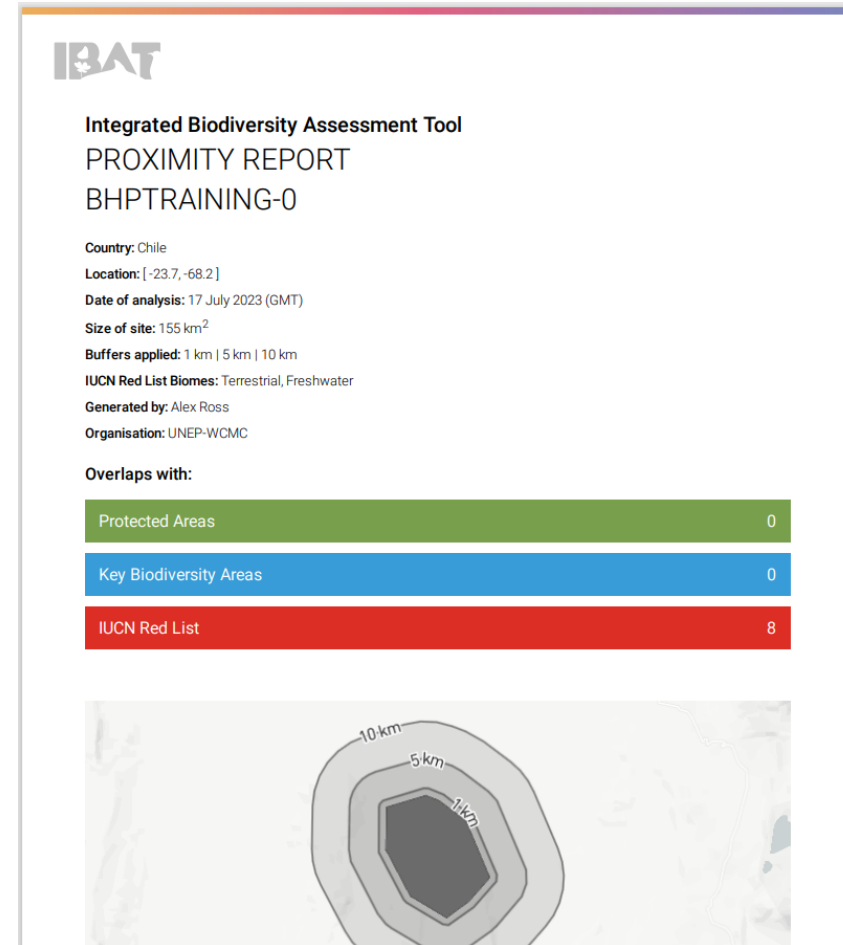
ARCHIVO MUESTRA 2 – REPORTES DE IBAT (EJEMPLO)


El sitio ahora puede ser usado en IBAT.

e.j. Al ejecutar un reporte multi-sitio, la pataforma entrega una carpeta comprimida con los siguientes archivos:

Name

-  BHPTraining-0_proximity_ibat
-  buffer_50000
-  README
-  report-BHPTraining-0-map-kba
-  report-BHPTraining-0-map-wdpa



A photograph of a puffin standing on a grassy cliff overlooking the ocean. The puffin has a black head and back, a white breast, and a large, colorful beak with orange, yellow, and red stripes. It is looking towards the left. The ocean is a deep blue with white-capped waves. The cliff is covered in dry, yellowish-brown grass.

Gracias :)

UN 
**environment
programme**

WCMC