Metadata for IUCN Red List Species data (RL 2019-2)

The IUCN Red List of Threatened Species[tm] (Red List) contains global assessments for over 105,000 species, and more than 75% of these have spatial data. This spatial data is made available to IBAT on a regular basis, every time there is a new Red List update.

The IUCN Red List is a critical indicator of the health of the world's biodiversity. **Far more than a list of species and their status**, it is a powerful tool to inform and catalyse action for biodiversity conservation and policy change, critical to protecting the natural resources we need to survive. It provides information about range, population size, habitat and ecology, use and/or trade, threats, and conservation actions that will help inform necessary conservation decisions.

To date, many species groups including mammals, amphibians, birds, reef building corals and conifers have been comprehensively assessed. As well as assessing newly recognised species, the IUCN Red List also re-assesses the status of some previously assessed species, sometimes with positive stories to tell.

To keep up to date with the IUCN Red List, please visit https://www.iucnredlist.org

The tables below provide information about the data included as part of the datasets made available to IBAT.

To link the spatial data tables with the species taxonomy/assessment table, the field to use is the **id_no** and the **taxonid.**

For any questions relating to the data included, please get in touch with your IBAT contact.

Species ranges (attribute table of spatial data)

Geometry: Polygon		
PROJECTION: GEOGRAPHIC WGS84		

Field	Field type	Description
objectid	Object ID	Default field providing a unique row number
id_no	Integer	Unique species identification number
binomial	String	Scientific name of the species
presence	Integer	Is/Was the species in this area (see below for codes)
origin	Integer	Why/ How the species is in this area (see below for codes)
seasonal	Integer	What is the seasonal presence of the species in the area (see below for codes)
compiler	String	Name of the individual/s or institution/s responsible for generating the polygon, if not IUCN
yrcompiled	Integer	Year in which the polygon was mapped, compiled, or modified
citation	String	Individual/s or institution/s responsible for providing the data
source	String	Source of distribution range given
dist_comm	String	Distribution comments that refer directly to the polygon
island	String	Name of the island on which the polygon is located, if relevant
subspecies	String	Subspecies name, if assessed at the subspecies level
subpop	String	Subpopulation name, if assessed at the subpopulation level
tax_comm	String	Taxonomic comments that refer directly to the polygon. Includes notes on polygons pertaining to subspecies or subpopulations
legend	String	Code derived from the combination of the presence, origin and seasonality fields, determining how the map will be displayed on The IUCN Red List website
geom	geometry	Geometry for the polygon

Point species data (spatial data)

Field	Field type	Description
OBJECTID	Integer	Default field providing a unique row number
id_no	Integer	Unique species identification number
binomial	String	Scientific name of the species
presence	Integer	Is/Was the species in this area (see below for codes)
origin	Integer	Why/ How the species is in this area (see below for codes)
seasonal	Integer	What is the seasonal presence of the species in the area (see below for codes)
compiler	String	Name of the individual/s or institution/s responsible for compiling the point data, if not IUCN
yrcompiled	Integer	Year in which the point was mapped, compiled, or modified
citation	String	Individual/s or institution/s responsible for providing the data
dec_lat	Double	Decimal latitude of the point (in WGS84)
dec_long	Double	Decimal longitude of the point (in WGS84)
spatialref	String	The ellipsoid, geodetic datum, or spatial reference system (SRS) upon which the geographic coordinates given in dec_lat and dec_long as based. Currently this is always WGS84.
event_year	Integer	The year in which the Event (object or observation) occurred, according to the Common Era Calendar
source	String	Source of data point given
basisofrec	String	The specific nature of the data record (see below for valid values)
catalogno	String	An identifier for the record within the data set or collection.
dist_comm	String	Distribution comments that refer directly to the point
island	String	Name of the island on which the point is located, if relevant
subspecies	String	Subspecies name, if assessed at the subspecies level
subpop	String	Subpopulation name, if assessed at the subpopulation level

		Taxonomic comments that refer directly to the point. Includes notes pertaining to subspecies or subpopulations
tax_comm	String	Taxonomic comments that refer directly to the point. Includes notes pertaining to subspecies or subpopulations
legend	String	Code derived from the combination of the presence, origin and seasonality fields, determining how the map will be displayed on The IUCN Red List website

Species taxonomy table – tabular data

<table>
<tr><td colspan="3" align="center">Table</td></tr>
<tr><td align="center">Field</td><td align="center">Field type</td><td align="center">Description</td></tr>
<tr><td>taxonid</td><td>Integer</td><td>Unique species identification number (sometimes also referred to as id_no)</td></tr>
<tr><td>binomial</td><td>String</td><td>Scientific name of the species</td></tr>
<tr><td>common_name</td><td>String</td><td>Common name(s) of the species, if any</td></tr>
<tr><td>kingdom</td><td>String</td><td>Taxonomic classification providing hierarchical representation for the species by Kingdom</td></tr>
<tr><td>phylum</td><td>String</td><td>Taxonomic classification providing hierarchical representation for the species by Phylum</td></tr>
<tr><td>class</td><td>String</td><td>Taxonomic classification providing hierarchical representation for the species by Class</td></tr>
<tr><td>order_</td><td>String</td><td>Taxonomic classification providing hierarchical representation for the species by Order</td></tr>
<tr><td>family</td><td>String</td><td>Taxonomic classification providing hierarchical representation for the species by Family</td></tr>
<tr><td>genus</td><td>String</td><td>Taxonomic classification providing hierarchical representation for the species by Genus</td></tr>
<tr><td>assessor</td><td>String</td><td>Assessor(s) for the latest IUCN Red List assessment</td></tr>
<tr><td>category</td><td>String</td><td>Represents the IUCN Red List Category of the species</td></tr>
<tr><td>criteria</td><td>String</td><td>Represents the IUCN Red List Criteria for the species</td></tr>
<tr><td>assessment_date</td><td>Date</td><td>The date of latest assessment of the species on the IUCN Red List</td></tr>
<tr><td>biome_marine</td><td>Boolean</td><td>Whether the species is present within the marine biome</td></tr>
<tr><td>biome_terrestrial</td><td>Boolean</td><td>Whether the species is present within the terrestrial biome</td></tr>
<tr><td>biome_freshwater</td><td>Boolean</td><td>Whether the species is present within the freshwater biome</td></tr>
<tr><td>publicationyr</td><td>Integer</td><td>The publication year for the assessment</td></tr>
</table>

populationtrend	String	Population trend of the taxa, based on latest assessment. Can be one of: Unknown, Increasing, Decreasing, Null (not available)

Supporting Information

Table of individual Presence, Origin and Seasonality codes

Code	Presence	Origin	Seasonality
1	Extant	Native	Resident
2	~~Probably Extant~~ *	Reintroduced	Breeding season
3	Possibly Extant	Introduced	Non-breeding season
4	Possibly Extinct	Vagrant	Passage
5	Extinct (post 1500)	Origin Uncertain	Seasonal occurrence uncertain
6	Presence Uncertain	Assisted Colonisation	
	* Presence code 2, 'Probably Extant', has been discontinued and should no longer be used.		

For further details on the use of these codes or the other spatial data attributes, please see the Mapping Standards document.

Table of values for Basis of Record (basisofrec field) – which is valid for Points data only

Value	Description
PreservedSpecimen	*A physical object representing one or more organisms, part of organism, or artifact of an organism. synonyms: voucher, collection, lot.*
FossilSpecimen	*A physical object representing one or more fossil organisms, part of fossil organism, or artifact of a fossil organism.*
LivingSpecimen	*An organism removed from its natural occurrence and now living in captivity or cultivation.*
HumanObservation	*A report by a known observer that an organism was present at the place and time.*
MachineObservation	*A report by a monitoring device that an organism was present at the place and time.*
StillImage	A photograph, drawing, painting.
MovingImage	A sequence of still images taken at regular intervals and intended to be played back as a moving image; may include sound.
SoundRecording	An audio recording.