







What is biodiversity data?



MUSCAT, OMAN. SEPTEMBER 2015

CHECKLISTS

- List of taxon names (species, genera, families, etc.)
- Relates to taxon as a concept
- Not linked to a very specific time and place (e.g. country or nature reserve rather than GPS coordinate)
- May include taxonomic details (authors, synonymy)
- May include other species-level data, e.g. redlist status

CHECKLIST DATA EXAMPLE

CITES checklist

Checklist.cites.org/#/en		☆ 💩 🗶 🔶
Checklist of CITES Species	English Español Français Ab	oout Terms of Use
Species, higher taxon, synonym or common name SEARCH	ALL APPXS. • ALL LO	CATIONS - Advanced Options
Abeillia spp. Bonaparte, 1850 Chordata - Aves - Apodiformes - Trochilidae		DOWNLOAD * SAVE THIS
Abeillia abeillei (Lesson & DeLattre, 1839) (Ornismya abeillei Lesson & DeLattre, 1839) Chordata - Aves - Apodiformes - Trochilidae • EN - Emerald-chinned Hummingbird		FEATURED Full species list History of listings or, Guatemala, lexico, Nicaragua
 ES - Colibrí barbiesmeralda FR - Colibri d'Abeillé 		Page 1/1147

CHECKLIST DATA EXAMPLE

CITES checklist

4	А	В	С	D	E	F	G	Н	- I	J	K	L	M
1	TaxonId	Kingdom	Phylum	Class	Order	Family	Genus	Species	Subspecies	FullName	AuthorYear	RankName	CurrentLis
2	2581	Animalia	Chordata	Aves	Apodiformes	Trochilidae	Abeillia			Abeillia	Bonaparte, 1850	GENUS	Ш
3	3734	Animalia	Chordata	Aves	Apodiformes	Trochilidae	Abeillia	abeillei		Abeillia abeillei	(Lesson & DeLattre, 1839)	SPECIES	Ш
4	2625	Animalia	Cnidaria	Anthozoa	Antipatharia	Schizopathidae	Abyssopathes			Abyssopathes	Opresko, 2002	GENUS	11
5	11256	Animalia	Cnidaria	Anthozoa	Antipatharia	Schizopathidae	Abyssopathes	lyra		Abyssopathes lyra	(Brook, 1889)	SPECIES	П
6	4049	Animalia	Cnidaria	Anthozoa	Antipatharia	Schizopathidae	Abyssopathes	lyriformis		Abyssopathes lyriformis	Opresko, 2002	SPECIES	П
7	953	Animalia	Cnidaria	Anthozoa	Scleractinia	Mussidae	Acanthastrea			Acanthastrea	Milne Edwards & Haime, 1848	GENUS	Ш
8	4644	Animalia	Cnidaria	Anthozoa	Scleractinia	Mussidae	Acanthastrea	amakusensis		Acanthastrea amakusensis	Veron, 1990	SPECIES	Ш
9	4395	Animalia	Cnidaria	Anthozoa	Scleractinia	Mussidae	Acanthastrea	bowerbanki		Acanthastrea bowerbanki	Milne Edwards & Haime, 1857	SPECIES	Ш
10	6045	Animalia	Cnidaria	Anthozoa	Scleractinia	Mussidae	Acanthastrea	brevis		Acanthastrea brevis	Milne Edwards & Haime, 1850	SPECIES	П
11	9924	Animalia	Cnidaria	Anthozoa	Scleractinia	Mussidae	Acanthastrea	echinata		Acanthastrea echinata	(Dana, 1846)	SPECIES	П
12	7063	Animalia	Cnidaria	Anthozoa	Scleractinia	Mussidae	Acanthastrea	faviaformis		Acanthastrea faviaformis	Veron, 2000	SPECIES	Ш
13	4426	Animalia	Cnidaria	Anthozoa	Scleractinia	Mussidae	Acanthastrea	hemprichii		Acanthastrea hemprichii	(Ehrenberg, 1834)	SPECIES	П
14	4371	Animalia	Cnidaria	Anthozoa	Scleractinia	Mussidae	Acanthastrea	hillae		Acanthastrea hillae	Wells, 1955	SPECIES	Ш
15	5418	Animalia	Cnidaria	Anthozoa	Scleractinia	Mussidae	A canthastrea	ishigakiensis		Acanthastrea ishigakiensis	Veron 1990	SPECIES	11

22938 rows (taxa) 33 columns (attributes)

TaxonId, Kingdom, Phylum, Class, Order, Family, Genus, Species, Subspecies, FullName, AuthorYear, RankName, CurrentListing, FullAnnotationEnglish, AnnotationEnglish, AnnotationSpanish, AnnotationFrench, #AnnotationSymbol, #Annotation, SynonymsWithAuthors, EnglishNames, SpanishNames, FrenchNames, CitesAccepted, All_DistributionISOCodes, All_DistributionFullNames, NativeDistributionFullNames, Introduced_Distribution, Introduced(?)_Distribution, Reintroduced_Distribution, Extinct_Distribution, Extinct(?)_Distribution, Distribution_Uncertain

CAPTURING CHECKLIST DATA

	A	В	С	D	E	F	G	Н	1	J
1	Kingdom	Phylum	Subphylum	Class	Order	Family	Genus	Scientific Name	Authorship	Synonyms
2	Animalia	Arthropoda	Chelicerata	Arachnida	Araneae	Thomisidae	Acentroscelu	Acentroscelus gallinii	Mello-Leitão, 1843	
3	Animalia	Arthropoda	Mandibulata	Insecta	Odonata	Synlestidae	Chlorolestes	Chlorolestes apricans	Wilmot, 1975	
4	Animalia	Arthropoda	Mandibulata	Insecta	Odonata	Synlestidae	Chlorolestes	Chlorolestes conspicuus	Hagen in Selys, 1862	2
5	Animalia	Arthropoda	Mandibulata	Insecta	Odonata	Synlestidae	Chlorolestes	Chlorolestes draconicus	Balinsky, 1956	
6	Animalia	Arthropoda	Mandibulata	Insecta	Odonata	Synlestidae	Chlorolestes	Chlorolestes elegans	Pinhey, 1950	
7	Animalia	Arthropoda	Mandibulata	Insecta	Odonata	Synlestidae	Chlorolestes	Chlorolestes fasciatus	(Burmeister, 1839)	Chlorolestes nigerrimus
8	Animalia	Arthropoda	Mandibulata	Insecta	Odonata	Synlestidae	Chlorolestes	Chlorolestes tessellatus	(Burmeister, 1839)	
9	Animalia	Arthropoda	Mandibulata	Insecta	Odonata	Coenagrionidae	Pseudagrion	Pseudagrion commoniae nige	Pinhey, 1950	
10										
11										
12										

1	K	L	M	N	0	Р	Q	R
1	Common Names	Code	Countries	Threat Status	Year Evaluated	Native Status	Reference	Remarks
2		ICZN		endangered	2007	Native	de Moor, IJ, Day, JA and	d Eastern Cape - frequent
3	Amatola Malachite	ICZN					de Moor, IJ, Day, JA and	d Western Cape - frequer
4	Conspicuous Malachite	ICZN	Lesotho				de Moor, IJ, Day, JA and	d KwaZulu Natal - rocky m
5	Drakensberg Malachite	ICZN	Mozambique; Zimbabwe				de Moor, IJ, Day, JA and	d Limpopo - frequents ro
6	Elegant Malachite	ICZN	Lesotho; Swaziland				de Moor, IJ, Day, JA and	d Eastern Cape, Free State
7	Mountain Malachite	ICZN					de Moor, IJ, Day, JA and	d Eastern Cape, KwaZulu
8	Forest Malachite	ICZN					de Moor, IJ, Day, JA and	d Western Cape, Eastern
9	Black Sprite	ICZN					de Moor, IJ, Day, JA and	d Western Cape - restrict
10								
11								
12								

'OTHER' BIODIVERSITY DATA

Data about ecosystems, communities, vegetation types, etc. not specific taxa

Environmental data not concerned with organisms (soil types, ocean currents, etc.)

Secondary data: synthesised data (e.g. distribution maps, reports, assessments based on primary biodiversity data)

Indirect evidence of taxon occurrence: spoor, markings, etc. (poorly accommodated in DarwinCore)

'OTHER' BIODIVERSITY DATA EXAMPLES



Figure 2: Botanical Sensitivity map for the immediate surrounds and interior of the Bacchus Substation. The site is located within good quality Breede Sand Fynbos, which is an Endangered vegetation type. The only feasible expansion options are within the existing fenced site, or to the east (preferred) or west (not recommended).

The first RDB listed species is *Euchaetis pungens* (Breede River buchu), which is endemic (restricted) to this vegetation type and is RDB listed as Vulnerable (Raimondo *et al* – in press). A large and viable population occurs in the immediate vicinity of the substation, part of which was the subject of a Search and Rescue operation two years ago as a result of the most recent expansion of this substation

'OTHER' BIODIVERSITY DATA EXAMPLES

