

Description of each field of the RAINBIO database

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Field names are given in a format (...)/(...) where the first term indicate the field name in the original RAINBIO database and the second term is the equivalence field name in DarwinCore Format (<http://rs.tdwg.org/dwc/terms/>), if any.

- **Idrb / occurrenceID**

Persistent global unique identifier of the record in the RAINBIO database.

- **Idc / catalogNumber**

Original ID from child database (always two capital letters, except for one, see below), with the following structure:

ID of the child database in capital letters + ID of the child database.

Examples:

'JW34240'. This record comes from 'JZ' child database with 34240 original ID.

'MSBR0000005770205BGB512911'. This record comes from 'MS' child database with BR0000005770205BGB512911 as original ID.

IDs of the child database in capital letters are ID given during importation into RAINBIO and are the following:

'Naturalis': Naturalis database

'MO: Tropicos database (Missouri Botanical Garden)

'Plots: Occurrences from tree plot data

'BR': Meise Botanic Garden database

'Orchids': Orchid database

'Rubiaceae': Rubiaceae database

'Dzanga': Dzanga-Sangha vascular plant database

'OH_Silica': Collection of African plant samples dried in silica-gel

'Palms': African Palms

'Berlinia': African Berlinia (Caesalpinioidea)

'BRLU': Université Libre de Bruxelles herbarium database (BRLU)

'K': Royal Botanic Gardens, Kew (K)

'LISC': Instituto de Investigação Científica Tropical (LISC), University of Lisbon

- **ChildDataBase / institutionCode**

A character field indicating the source of the record.

'Naturalis': Naturalis database

'MO: Tropicos database (Missouri Botanical Garden)

'Plots: Occurrences from tree plot data

'BR': Meise Botanic Garden database

'Orchids': Orchid database

'Rubiaceae': Rubiaceae database

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- **Idsc /**

When a given record has duplicates in the database, this field contains the list of 'idc' (see above) of all duplicates. For example:

idrb	idc	idsc
1	BK95	BK95, JW34240

This record has two duplicates in the database, namely BK95 and JW34240.

If no duplicates have been identified for a record, this field is empty.

- **tax /**

Original submitted taxa name.

- **fam /**

Original submitted family name.

- **detnam / identifiedBy**

Name of the person who identified the record.

- **dety / YearIdentified**

Year of the identification.

- **detm / MonthIdentified**

Month of the identification.

- **detd / DayIdentified**

Day of the identification.

- **country / country**

Country documented in the record (see 'iso3lonlat')

- **maj_area / stateProvince**

Major area of the record. Often documenting the region/province of collection.

- **loc_notes / locality**

Locality notes.

- **ddlon / decimalLongitude**

Longitude in decimal degrees.

- **ddlat / decimalLatitude**

Latitude in decimal degrees.

- **alt / minimumElevationInMeters**

Altitude in metres.

- **colnam /**

Collector names. Efforts have been made to standardize these names. Surname + initials (if known).

- **prefix**
- **nbr**

Number of record.

- **suffix**
- **colnamsup**

Additional collectors. No efforts have been made to standardize these names.

- **/ recordedBy**

A concatenate of '**colnam**' and '**colnamsup**' separated by '|'.

- **coly / YearCollected**

Year of collection.

- **colm / MonthCollected**

Month of collection.

- **cold / DayCollected**

Day of collection.

- **kind_col /**

Kind of record.

'herb' : herbarium collection

'Observation'

'unknown'

'Sili': silica-gel samples

'Plot_data': data from plot.

- **/ basisOfRecord**

Kind of record, following terminology of DarwinCore format:

'PreservedSpecimen', include 'herb' and 'Sili'

'HumanObservation', include 'Plot_data' and 'Observation'

- **dups /**

List of herbaria holding duplicates of the collection. This field is always filled.

- **description / fieldNotes**

Description of herbarium collection.

- **verif_iso3**

Result of georeferencing checking (whether or not the record fall within the recorded country), with the following possible values:

‘OK’: Coordinates fall in the same country indicated in the collection.

‘NO COORDINATES’

‘ERROR’: Coordinates fall in a country that is not neighbor to the country indicated in the collection (see ‘iso3’ and ‘iso3lonlat’ fields).

‘NEIGHBOUR’: Coordinates fall in a country neighbour to the country indicated in the collection (see ‘iso3’ and ‘iso3lonlat’ fields).

‘COORDINATES OUT OF RANGE’: Coordinates outside our [-180, 180] range.

- **iso3 /**

iso3 code of the country indicated by the collection.

- **iso3lonlat /**

iso3 code of the country indicated by the coordinates.

- **verif_coast /**

Result of georeferencing checking (whether or not the record fall within the ocean), with the following possible values:

‘OK’: Coordinates fall in the land.

‘NO COORDINATES’

‘ERROR’: Coordinates fall in ocean (with continent with a buffer of 1 km).

- **verif_distance /**

If ‘verif_coast’ or ‘verif_iso3’ indicate ‘ERROR’ or ‘NEIGHBOUR’, this field indicate the distance in metre to coast or border of the correct country.

- **tax_order / order**

Taxonomic order.

- **tax_famclass / phylum**

Taxonomic phylum.

- **tax_fam / family**

Taxonomic family following APG2.

- **tax_gen / genus**

Genus name.

- **tax_esp / specificEpithet**

Species name.

- **/ taxonRank**

First rank of infra-specific level, with the following possible values:

‘ESP : species level

‘SUBSP’: subspecies level

‘VAR’: variety level

- **tax_rank01 /**

First rank of infra-specific level, with the following possible values:

‘subsp.’ : subspecies

‘var.’ : variety

‘f.’ : form

‘x’ : hybrid between species before the x and the name behind it

‘cv.’ : cultivar

‘cvgr.’ : cultivar group

‘subvar.’ : subvariety

‘unknown’

- **tax_nam01**

Name of the first infraspecific level.

- **tax_rank02**

Second rank of infra-specific level, with the following possible values:

‘var.’ : variety

‘f.’ : form

‘x’ : hybrid between species before the x and the name behind it

‘cv.’ : cultivar

‘unknown’

- **tax_nam02**

Name of the second infraspecific level.

- **tax_tax**

Full name of the taxa: genus+species+infraspecific levels.

- **tax_sp_level**

Genus+species with no infraspecific level included.

- **a_cultivated /**

Can take two values:

't' : for TRUE, mean the species is considered as being non native or cultivated in Africa.

'f': for FALSE.

- **a_habit /**

Life-form of the species:

'tree', 'shrub', 'shrublet', 'liana', 'epiphyte', 'herb', 'parasite', 'myco-heterotroph'.

- **a_habit_secondary /**

Secondary life-form of the species.

- **morpho_names /**

Two possible values:

't' : for TRUE, mean the species is considered as a morpho-species or not published species (i.e. such as *Deinbollia* sp. a, *Poggea spec.nov. 1*, *Urelytrum debarbatum*, etc...).

'f': for FALSE.

All fields starting with 'd_' below provides information on duplicates process, and thus only concern record for which duplicates have been identified and merged. When duplicates are identified and merged, these fields provide information of several fields when they differ among duplicates. Each information is separated by '|' symbol.

See Gilles Dauby/Rainer Zaiss for additional details on the process of duplicates identification and merging.

- **d_count**

Number of duplicates identified and merged.

- **d_colnam**

List of 'colnam' of each duplicate if 'colnam' differ among merged duplicates (surname would be identical but initials may differ) (steps 15-20, 40-41, 44 of duplicates identification process).

- **d_prefix**

List of 'prefix' of each duplicate if 'prefix' differ among merged duplicates (step 44 of duplicates identification process).

- **d_suffix**

List of 'suffix' of each duplicate if 'suffix' differ among merged duplicates (step 44 of duplicates identification process).

- **d_coldate**

List of 'coldate' of each duplicate if 'coldate' differs among merged duplicates (see steps 18-20 and 40-41, 44 of duplicates identification process).

- **d_coly**

List of 'coly' of each duplicate if 'coly' differs among merged duplicates (see steps 18-20 and 40-41, 44 of duplicates identification process).

- **d_colmd**

List of 'colmd' (month and day of collection together) of each duplicate if 'colmd' differs among merged duplicates (see steps 18-20 and 40-41, 44 of duplicates identification process).

- **d_colm**

List of 'colm' of each duplicate if 'colm' differs among merged duplicates (see steps 18-20 and 40-41, 44 of duplicates identification process).

- **d_colnamsup**

List of 'colnamsup' of each duplicate if 'colnamsup' differs among merged duplicates.

- **d_locnotes**

List of 'locnotes' of each duplicate if 'locnotes' differs among merged duplicates.

- **d_maj_area**

List of 'maj_area' of each duplicate if 'maj_area' differs among merged duplicates.

- **d_country**

List of 'country' of each duplicate if 'country' differs among merged duplicates.

- **d_ddlon**

List of 'ddlon' of each duplicate if 'ddlon' differs among merged duplicates.

- **d_ddlat**

List of 'ddlat' of each duplicate if 'ddlat' differs among merged duplicates (see steps 17-20 and 40-42 of duplicates identification process).

- **d_x_meters**

If dddlon and/or dddlat changes among duplicates, this field indicate the 'x' distance in metres of the minimum square encompassing all duplicates with coordinates.

- **d_y_meters**

If dddlon and/or dddlat changes among duplicates, this field indicate the 'y' distance in metres of the minimum square encompassing all duplicates with coordinates.

- **d_verif_iso3**

List of 'verif_iso3' of each duplicate if 'verif_iso3' differs among merged duplicates (see steps 17-20 and 40-42 of duplicates identification process).

- **d_alt**

List of 'alt' of each duplicate if 'alt' differs among merged duplicates

- **d_taxrank**

List of 'taxrank' of each duplicate if 'taxrank' differs among merged duplicates (see steps 40-42 and 44 of duplicates identification process).

- **d_tax**

List of 'tax' of each duplicate if 'tax' differs among merged duplicates (see steps 40-42 and 44 of duplicates identification process).

- **d_detnam**

List of 'detnam' of each duplicate if 'detnam' differs among merged duplicates.

- **d_detdate**

List of 'detdate' of each duplicate if 'detdate' differs among merged duplicates.

- **d_dety**

List of 'dety' of each duplicate if 'dety' differs among merged duplicates.

- **d_detm**

List of 'detm' of each duplicate if 'detm' differs among merged duplicates.

- **d_detd**

List of 'detd' of each duplicate if 'detd' differs among merged duplicates.

- **d_description**

List of 'description' of each duplicate if 'description' differs among merged duplicates.

- **d_habitat**

List of 'habitat' of each duplicate if 'habitat' differs among merged duplicates.