

# THE WERNER RAUH HERITAGE PROJECT

## Database Manual (**Draft Version**)

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Christof Nikolaus Schröder  
The Werner Rauh Heritage Project  
Ruprecht-Karls-University Heidelberg  
Centr for Organismal Studies Heidelberg  
Im Neuenheimer Feld 345  
D-69120 Heidelberg  
Germany  
[niko.schroeder@cos.uni-heidelberg.de](mailto:niko.schroeder@cos.uni-heidelberg.de)

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## 2 How to get started

At the moment there is no user-management with personalized accounts implemented in the WRHP database. To search the database just login either as **gast** or **guest**, both without password.

## 3 Conventions

### 3.1 Special characters in database entries

- [ ] surround a comment or correction by the editor.
- { } surround the translation of the original (mostly german) text of fieldbook entries.
- ##### represent illegible word(s) or character string(s).

### 3.2 Spelling

All original data is given in the spelling as found in the fieldbooks, including all misspellings and corrections made by Werner Rauh.

Field numbers are written exactly like in the fieldbooks. If necessary, they are additionally given in a standardized version within “[ ]” in the way Rauh usually published his field numbers, e.g.: “KXXXb” is additionally given as “[K 30b (1956)]”.

## 4 table definitions in database fieldbook

### 4.1 *tb\_admin\_div*

Field	Type	Null	Key	Default	Extra
country_ISO	varchar(2)	NO	PRI	NULL	
div_level1	varchar(255)	YES		NULL	

Field	Type	Null	Key	Default	Extra
div_level2	varchar(255)	YES		NULL	
div_level3	varchar(255)	YES		NULL	
comment	text	YES		NULL	

This table contains the *terms* for the official administrative divisions of each country from which collections are stored in the WRHP database. The *names* of the divisions are stored in **tb\_itinerary.admin\_div\_level1 ... 3** or rather in **tb\_entry.entry\_admin\_div\_level1 ... 3**.

## 4.2 *tb\_admin\_div\_list*

Field	Type	Null	Key	Default	Extra
admin_div_id	int(11)	NO	PRI	NULL	auto_increment
name_ISO	varchar(255)	NO		NULL	
admin_level	int(1)	NO		NULL	
admin_div_name_long	varchar(255)	NO		NULL	
admin_div_name_short	varchar(255)	NO		NULL	
id_higher_div	int(11)	YES		NULL	

This table contains a number of *names of administrative divisions* used regularly when entering data to the database. It makes easier to enter the names and avoids mistakes, as the names can be selected from a pull down menu, created according to chosen country.

## 4.3 *tb\_changelog*

Field	Type	Null	Key	Default	Extra
log_id	int(10) unsigned	NO	PRI	NULL	auto_increment
log	varchar(255)	YES		NULL	
logtime	datetime	YES		NULL	

This table records all changes.

## 4.4 *tb\_entry*

Field	Type	Null	Key	Default	Extra
entry_id	int(10) unsigned	NO	PRI	NULL	auto_increment
legname	varchar(255)	YES		Rauh	
legnumber	varchar(255)	YES		NULL	
sortindex	bigint(20)	YES		NULL	
category	enum('FDB','FDD','EGB','OTR','PTL')	YES		FDB	

Field	Type	Null	Key	Default	Extra
	HRB')				
category_comment	text	YES		NULL	
legdate_y	int(11)	YES		NULL	
legdate_m	int(11)	YES		NULL	
legdate_d	int(11)	YES		NULL	
legdate_classification	enum('0','1','2','3','4','5','6','7','8','9')	YES		NULL	
link_to_fdb	varchar(255)	YES		NULL	
collected_as_name	text	YES		NULL	
collected_part	varchar(255)	YES		NULL	
Rauh_Rank	tinyint(1)	NO		8	0 = definitely collected by Werner Rauh himself 1 = collected by somebody accompanying WR 2 = received by WR during an expedition from a third party <b>with documentation</b> 3 = for BG HEID use only 4 = for BG HEID use only 8 = not checked 9 = definitely no information on location etc. available
type_collection	tinyint(1)	NO		0	
taxon_id	int(10) unsigned	NO		2	
taxon_id_set_by	varchar(255)	YES		NULL	
taxonomy_comment	text	YES		NULL	
synonym_id	int(10) unsigned	NO		0	
itinerary_id	int(10) unsigned	NO		0	
locality_comment	text	YES		NULL	
timestamp	timestamp	NO		CURRENT_TIMESTAMP	on update CURRENT_TIMESTAMP
entry_classification	enum('0','1','2','3','4','5','6','7','8','9')	YES		NULL	
entry_classification_source	varchar(255)	YES		NULL	
entry_country_ISO	varchar(2)	YES		NULL	
entry_country	varchar(255)	YES		NULL	
entry_admin_div_level1	varchar(255)	YES		NULL	
entry_admin_div_level2	varchar(255)	YES		NULL	
entry_admin_div_level3	varchar(255)	YES		NULL	
entry_municipality	varchar(255)	YES		NULL	
entry_location	text	YES		NULL	
entry_environment	text	YES		NULL	
entry_latitude1	decimal(10,7)	YES		NULL	
entry_longitude1	decimal(10,7)	YES		NULL	

Field	Type	Null	Key	Default	Extra
entry_latitude2	decimal(10,7)	YES		NULL	
entry_longitude2	decimal(10,7)	YES		NULL	
entry_precision_km	decimal(10,2)	YES		NULL	
entry_elevation1	int(11)	YES		NULL	
entry_elevation2	int(11)	YES		NULL	
entry_comment	text	YES		NULL	
entry_complete	tinyint(1)	NO		0	

Table **tb\_entry** is one of the two most important tables of the database. All fieldbook entries with a number are stored in this table. It is linked to table **tb\_taxon** by the field **taxon\_id** and to **tb\_itinerary** by the field **itinerary\_id**. A lot of entries cannot be connected to a point in the itinerary, because the given data does not fit to any location of the itinerary. In this cases **itinerary\_id** is set to **NULL** and the data given in the fieldbook with the entry is stored in the fields **entry\_country\_ISO ... entry\_elevation2**.

The name of a collected or recognized plant is entered, with all mistakes and errors found in the fieldbook, in the field **collected\_as\_name**. It is not necessary that the name given in the fieldbook is a *Nomen validum*! To validate the names of collections they are linked to table **tb\_taxon** by selecting the suitable basionym and selecting a synonym in table **tb\_synonym**! In **tb\_synonym** basionyms are treated as synonyms, so to speak “initial synonyms”.

explanations of the table fields:

<b>entry_id</b>	automatically created id for dataset.
<b>legname</b>	Collector’s name; standard is “Rauh”.
<b>legnumber</b>	Fieldnumber / Collection No.
<b>sortindex</b>	<p>This index is highly necessary, as Werner Rauh used <i>very</i> heterogenous numbers for his collections. Some examples: “K7” for a Cactus from Peru in 1954, “KXLII” for a Cactus from Peru in 1956, “P2229a” for an “other plant than Cacti collected in Peru” in 1954/1956, “M718” for a collection from Madagascar 1959, “Ke205” Kenya 1960, “T247” Tanzania 1960, “KaI/112” Canarian Islands 1977, and from 1961 on single 4- or 5-digit numbers, starting with 3000 and ending with 74429.</p> <p>Unfortunately some collections were made totally without numbers...</p> <p>To sort the entries chronologically a standardized “collection number” is necessary. It consists of <b>12-digits</b> number:</p> <p><b>2 digits</b> for the year</p> <p><b>2+1 digits</b> fieldbook number; the last digit distinguishes volumes „A“, „B“ etc. of a fieldbook.</p> <p><b>5 digits</b> for the collection number. In case of numbers starting with character(s) (e.g. Ke911) the character(s) is (are) represented by the first digit:</p> <p>E ⇒ 1   K ⇒ 2   KaI ⇒ 3   Ke ⇒ 4   M ⇒ 5   P ⇒ 6   T ⇒ 7</p>

For collections without numbers (“sine numero”), every digit is “9” = “99999”

**2 digits** for supplementary character(s), e.g. „a“, „b“ oder „XII“ etc. or to distinguish between collections made “sine numero” in one book. Letters are represented by their ASCII-Code (e.g. „a” => 65, „b” => 66, „c” => 67 etc.), Roman numerals are represented by their Arabic analogue (e.g. „I” => 01, „II” => 02, „XII” => 12 etc.).

Examples:

**84 720 66210 17** = 1984, Fieldbook **72** „Peru“, collection number Rauh **66210/XVII**

**80 631 54169 00** = 1980, Fieldbook **63A** „Peru“, collection number Rauh **54169**

**59 011 50144 00** = 1959, Fieldbook **1A** „Madagascar“, collection number Rauh **M144**

**56 003 99999 00** = 1956, Fieldbook **00D** „Peru“, first collection “sine numero” in the book.

**category**

**FDB** = Fieldbook

**FDD** = Fielddiary

**EGB** = “Eingangsbuch” = purchase book

**OTR** = Other

**PTL** = Protologue

**HRB** = Herbarium sheet. A number of fieldbooks are lost after Rauh’s death. The only source for field data are preserved herbarium sheets of those collections.

**category\_comment**

Comments on the selected category, especially the source when selecting **OTR**.

**legdate\_y**

Year of gathering

**legdate\_m**

Month of gathering

**legdate\_d**

Day of gathering

**legdate\_classification**

'0' = Date is given in fieldbook.

'1' = Date is given in the itinerary (see **tb\_itinerary**).

'2' = Date is gathered from other informations in the same fieldbook.

'3' = Date is gathered from a different fieldbook.

'4' = Date is gathered from protologue.

'5' = *not used at the moment.*

'6' = *not used at the moment.*

'7' = *zur Zeit nicht verwendet.*

'8' = Date is relatively uncertain.

'9' = Date is absolutely uncertain.

**link\_to\_fdb**

Standard id for fieldbook page, e.g. **HEIDRAUHFDB031\_023**

**HEID** = Herbarium HEID (Heidelberg)

**RAUH** = Collection Rauh

**FDB** = Fieldbook

**031** = Fieldbook No. 31  
**\_023** = Scan No. 23

<b>collected_as_name</b>	Taxon name as written in the fieldbook, with all misspellings, mistakes and comments, like “Euphorbia spec. mit Rübe” {“Euphorbia spec. with fleshy taproot”}. Additions and corrections by the editor are given in “[“ and “]”, translations are surrounded with “{“ and “}”. The taxon and its correct name(s) are identified by relations to tables <b>tb_taxon</b> and <b>tb_synonym</b> .
<b>collected_part</b>	<b>N</b> = nothing known. <b>F</b> = Fruit(s) / <b>F?</b> = probably F. <b>H</b> = Herbarium material / <b>H?</b> <b>I</b> = Image / <b>I?</b> <b>O</b> = other part(s) <b>P</b> = Plant / <b>P?</b> <b>S</b> = Seeds / <b>S?</b>
<b>type_collection</b>	<b>0</b> = entry is no type collection. <b>1</b> = entry is a type collection, usually of the taxon referred to by <b>taxon_id</b> in the following field. <b>5</b> = could be type-collection according to fieldbook, because Rauh wrote “nov. spec.”, “nov. var.” etc. in fieldbook entry <b>8</b> = not checked <b>9</b> = unknown, e.g. given taxon name is incomplete or was never published
<b>taxon_id</b>	Id of the taxon in <b>tb_taxon</b> referring to <b>collected_as_name</b> .
<b>taxon_id_set_by</b>	Name of the person who set the <b>taxon_id</b> .
<b>taxonomy_comment</b>	Commentary on taxonomy.

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<b>itinerary_id</b>	If the location is identical with a point in <b>tb_itinerary</b> , the id of this point is entered here. Additional information and comments on this itinerary-point are stored in following field. If there is any information on the location written down in the fieldbook at the entry, this is stored in the <b>entry_*</b> fields.
<b>locality_comment</b>	see above <b>itinerary_id!</b>
<b>timestamp</b>	<b>TIMESTAMP</b>
<b>entry_classification</b>	<b>0</b> = location is given unambiguously on the scanned page entered in the field <b>link_to_fdb</b> . <b>1</b> = location is concluded from different page of the same fieldbook entered in <b>link_to_fdb</b> . <b>2</b> = location was concluded from a different fieldbook. <b>3</b> = location was concluded from fielddiary. <b>4</b> = location was concluded from protologue. <b>5</b> = location was concluded from herbarium specimen. <b>6</b> = location was taken from a purchase book («Eingangsbuch» =

EGB), i.e. inventory of received plants and specimens of Heidelberg Botanic Garden and Herbarium HEID.

**7** = location was taken from different external source.

**8** = *not used*.

**9** = location is absolutely uncertain.

**entry\_classification\_source**

**entry\_country\_ISO** Two letters ISO-code of country of location.

**entry\_country** Country of location.

**entry\_admin\_div\_level1** Top administrative level of location.

**entry\_admin\_div\_level2** Second administrative level of location.

**entry\_admin\_div\_level3** Third administrative level of location.

**entry\_municipality** Given or — in [ ] — assumed municipality of location.

**entry\_location** Original information on the location, with all misspellings and abbreviations.

**entry\_environment** Informations given on the environment in the fieldbook, e.g. Geology, Ecology etc.

**entry\_latitude1** Latitude of place or waypoint, or if their are given a starting point and an end point in the fieldbook (e.g. “from Toliara to Betioky”) this is the latitude of the starting point (= Toliara).

**entry\_longitude1** Longitude of place or waypoint, or if their are given a starting point and an end point in the fieldbook (e.g. “from Toliara to Betioky”) this is the longitude of the starting point (= Toliara).

**entry\_latitude2** Latitude of end point (=Betioky in the example showed above).

**entry\_longitude2** Longitude of end point (=Betioky in the example showed above).

**entry\_precision\_km** Estimated precision of given coordinates in km.

**entry\_elevation1** Elevation of location indicated in the fieldbook..

**entry\_elevation2** If there is an interval given in the fieldbook («from 1500 to 2400 msm»), then the to-value is stored in this field.

**entry\_comment** Any comment(s) on the entry.

**entry\_complete** **0** = no

**1** = yes (indicated by green traffic light at bottom of entry)

**3** = no, only **legname**, **legnumber**, **sortindex** and **link\_to\_fdb**, and perhaps **legdate\_y**, **legdate\_m**, **legdate\_d** and **itinerary\_id** (indicated by yellow traffic light at bottom of entry).

**9** = no, only **Rauh collection number** and **link to FDB page** (indicated by red traffic light at bottom of entry).



## 4.5 *tb\_images*

Field	Type	Null	Key	Default	Extra
image_id	int(6)	NO	PRI	NULL	
entry_sortierindex	bigint(20)	NO		NULL	
Rauh_Nr	varchar(255)	YES		NULL	
Garten_Nr	int(6)	YES		NULL	
file_name	varchar(255)	NO		NULL	
depicted_part	varchar(255)	YES		NULL	
image_photographer	varchar(255)	YES		NULL	
image_comment	text	YES		NULL	

## 4.6 *tb\_itinerary*

Field	Type	Null	Key	Default	Extra
itinerary_id	int(10) unsigned	NO	PRI	NULL	auto_increment
classification	enum('0','1','2','3','4','5','6','7','8','9')	YES		NULL	
classification_source	text	YES		NULL	
country_ISO	varchar(2)	YES		NULL	
country	varchar(255)	YES		NULL	
admin_div_level1	varchar(255)	YES		NULL	
admin_div_level2	varchar(255)	YES		NULL	
admin_div_level3	varchar(255)	YES		NULL	
municipality	varchar(255)	YES		NULL	
location	text	YES		NULL	
environment	text	YES		NULL	
itinerary_comment	text	YES		NULL	
taxa_as_written	text	YES		NULL	
latitude1	decimal(10,7)	YES		NULL	
longitude1	decimal(10,7)	YES		NULL	
latitude2	decimal(10,7)	YES		NULL	
longitude2	decimal(10,7)	YES		NULL	
precision_km	int(11)	YES		NULL	
elevation1	int(11)	YES		NULL	
elevation2	int(11)	YES		NULL	
date_y	int(11)	YES		NULL	
date_m	int(11)	YES		NULL	
date_d	int(11)	YES		NULL	
time_h	int(11)	YES		NULL	
time_m	int(11)	YES		NULL	
sortierindex_itinerary	int(11)	YES		NULL	
scan1	varchar(255)	YES		NULL	
scan2	varchar(255)	YES		NULL	
scan3	varchar(255)	YES		NULL	
itinerary_complete	tinyint(1)	NO		0	

## 4.7 *tb\_itinerary\_synonym*

Field	Type	Null	Key	Default	Extra
itinerary_id	int(10) unsigned	NO		0	
synonym_id	int(10) unsigned	NO		2	
Name_as_written	varchar(255)	YES		<i>NULL</i>	
nomenclature	varchar(255)	YES		<i>NULL</i>	
itinerary_synonym_comment	text	YES		<i>NULL</i>	

## 4.8 *tb\_itinerary\_taxon*

Field	Type	Null	Key	Default	Extra
itinerary_id	int(10) unsigned	NO		0	
taxon_id	int(10) unsigned	NO		<i>NULL</i>	
taxon_as_written	varchar(255)	YES		<i>NULL</i>	
itinerary_taxon_comment	text	YES		<i>NULL</i>	

## 4.9 *tb\_rauh\_maps*

Field	Type	Null	Key	Default	Extra
map_id	int(10) unsigned	NO	PRI	<i>NULL</i>	auto_increment
map_signatur	varchar(6)	YES		<i>NULL</i>	
continent	enum('Africa','N-America','C-America','S-America',...)	YES		<i>NULL</i>	
region	varchar(255)	YES		<i>NULL</i>	
year_of_publication	varchar(255)	YES		<i>NULL</i>	
scale	varchar(255)	YES		<i>NULL</i>	
Rauh_route	tinyint(1)	NO		0	
Rauh_entries	tinyint(1)	NO		0	
field-trip	varchar(255)	YES		<i>NULL</i>	
FDB	varchar(255)	YES		<i>NULL</i>	
maps_comment	text	YES		<i>NULL</i>	

## 4.10 *tb\_session*

Field	Type	Null	Key	Default	Extra
id	mediumint(8) unsigned	NO	PRI	NULL	auto_increment
session_id	varchar(24)	NO		NULL	
var	varchar(255)	YES		NULL	
val	varchar(255)	YES		NULL	

## 4.11 *tb\_synonym*

Field	Type	Null	Key	Default	Extra
synonym_id	int(10) unsigned	NO	PRI	NULL	auto_increment
taxon_id	int(10) unsigned	NO		2	
Tropicos_name_id	int(10) unsigned	YES		NULL	
IPNI_name_id	varchar(255)	YES		NULL	
synonym_familia	varchar(255)	YES		NULL	
synonym_genus	varchar(255)	YES		NULL	
synonym_auctor_genus	varchar(255)	YES		NULL	
synonym_species	varchar(255)	YES		NULL	
synonym_auctor_species	varchar(255)	YES		NULL	
synonym_infra_praefix	varchar(255)	YES		NULL	
synonym_infra	varchar(255)	YES		NULL	
synonym_auctor_infra	varchar(255)	YES		NULL	
synonym_reference	varchar(255)	YES		NULL	
synonym_comment	text	YES		NULL	

**tb\_synonym** contains all (valid or not) names of plants, mentioned in Rauh's Fieldbooks and in addition to this all basionyms stored in **tb\_taxon**. There must be no name of a plant or taxon in database **fieldbook** not stored in **tb\_synonym**!

## 4.12 *tb\_taxon*

Field	Type	Null	Key	Default	Extra
taxon_id	int(10) unsigned	NO	PRI	NULL	auto_increment
sysid_gartenbank	int(10)	YES		NULL	Id of taxon in table <b>tb_taxon</b> of „Gartenbank“ (= database of Heidelberg Botanical Garden and Herbarium HEID)
basionym_familia	varchar(255)	YES		NULL	
basionym_genus	varchar(255)	YES		NULL	
basionym_auctor_genus	varchar(255)	YES		NULL	
basionym_species	varchar(255)	YES		NULL	
basionym_auctor_species	varchar(255)	YES		NULL	
basionym_infra_praefix	varchar(255)	YES		NULL	
basionym_infra	varchar(255)	YES		NULL	
basionym_auctor_infra	varchar(255)	YES		NULL	
protolog	varchar(255)	YES		NULL	Bibliographical protologue data
protolog_URL	varchar(512)	YES		NULL	URL to protologue

Field	Type	Null	Key	Default	Extra
typus	varchar(255)	YES		NULL	Type as detailed as possible
date_of_publication	varchar(255)	YES		NULL	
protolog_typification	text	YES		NULL	original wording of typification in protologue
protolog_verified	tinyint(1)	NO		0	Indicates if protologue has been verified 0 = No 1 = Yes
locus_typicus	varchar(255)	YES		NULL	locus classicus (type location) as indicated in protologue
is_succulent	int(1)	NO		8	0 = No 1 = Yes 8 = Not checked 9 = unknown
taxon_comment	text	YES		NULL	
taxon_timestamp	timestamp	YES		CURRENT_TIMESTAMP ON UPDATE	

### 4.13 *tb\_hrb\_herbarium*

Spalte	Typ	Null	Default	Commentary
hrb_herbarium_id	int(11)	Nein		
herbarium_acronym	varchar(255)	Nein		
herbarium_name	varchar(255)	Ja	NULL	
herbarium_interface	varchar(255)	Ja	NULL	

### 4.14 *tb\_hrb\_specimen*

Spalte	Typ	Null	Default	Commentary
hrb_specimen_id	int(10)	Nein		auto_incremental id of specimen entry
entry_sortindex	bigint(20)	Nein		sortindex from tb_entry
specimen_herbarium_acronym	varchar(255)	Nein	HEID	Acronym of herbarium holding specimen
accession_number	varchar(255)	Ja	NULL	Accession number of specimen.
accession_label	text	Ja	NULL	Original text of specimen's label as written.
URL_parameter_type	varchar(64)	Ja	NULL	Type of parameter herbarium online database requires, see below <sup>1)</sup>
URL_parameter	varchar(512)	Ja	NULL	Parameter to link to specimen's dataset.
specimen_typus	enum('HT', 'LT', 'TT', 'ST', 'PT', 'NT', 'ET', 'IT', 'CT')	Ja	NULL	
specimen_comment	text	Ja	NULL	
specimen_verified	tinyint(1)	Nein	0	Indicates if specimen has been verified 0 = No 1 = yes, original specimen examined 2 = yes, image of

Spalte	Typ	Null	Default	Commentary
timestamp	timestamp	Nein	CURRENT_TIMESTAMP	specimen examined

1) When URL to link to Herbarium's database is created, the script replaces the following parameter type keyword by the given parameter in column URL\_parameter. The parameter type keyword has to be included into URL in column tb\_hrb\_herbarium.herbarium\_interface.

{accession_number}	Accession number of herbarium specimen, usually specimen's Herbarium Barcode.
{specimen_id}	Specimen's internal database id.

## 5 API and Linkage

### 5.1 API

At the moment no API is supported, but we will include some APIs in future.

### 5.2 Linkage

There are the following scripts for transferring parameters to search in the WRHP database:

#### 5.2.1 *Result list, searching for fieldnumber*

Script URL:

<http://scriptorium.hip.uni-heidelberg.de/php/query-legnumber.php>

Parameters:

<b>l</b>	language of resultpage, available: <b>de</b> = german, <b>en</b> = english
<b>legnr</b>	Collection-Number to search for or part of it.

Examples:

- Language: English; Collection-Number: "74300"

<http://scriptorium.hip.uni-heidelberg.de/php/query-legnumber.php?l=en&legnr=74300>

- Language: German; Collection-Number starting with "M30" (= Collections No. M30, M30a, M300–M309 (Madagascar 1959))

<http://scriptorium.hip.uni-heidelberg.de/php/query-legnumber.php?l=de&legnr=M30>

## 6 Further Information and Details

### 6.1 Number ranges

#### 6.1.1 Numbers starting with 5.....

5000000...5999999	Modul for accessions of Botanic Gardens
5000000...5099999	IDs of Botanic Gardens in <b>tb_bg_garden</b>
5100000...5199999	IDs of garden accession in <b>tb_bg_accession</b>

#### 6.1.2 Numbers starting with 6.....

600000...699999	IDs of literature references in <b>tb_iterature</b>
900000...999999	IDs of of GenBank sequence datasets in <b>tb_GenBank</b>