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NEW AND UPDATED DATA REFERRING TO THE SCIENTIFIC LEGACY OF WERNER RAUH (1913–2000)

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During the years 2005–2019 the author curated the scientific legacy of the German botanist **Werner Rauh** (1913–2000) at **Heidelberg Botanic Garden and Herbarium HEID** within the scope of the «**Werner Rauh Heritage Project**» (WRHP) [Koch & al. 2013], inter alia as Project Coordinator. He did not only design and develop a relational database, but researched and filled the database with almost 40.000 datasets of gatherings with field numbers, more than 3.000 accessions in botanic gardens and

nearly 9.000 specimens in herbaria worldwide, representing 3.342 taxa. In spite of the long duration of the project, a large amount of data could not be processed. Beyond that after the official end of the project some methods of interpretation have been improved in the meantime showing that some data is incomplete or a bit erroneous. New or improved data is provided here from time to time to the scientific community.

Localities and gathering dates

In this chapter new or updated locality data and gathering dates are presented, sorted by gathering number. With the keyword «entry/entries» links to database entries of the WRHP database for the respective Rauh field number(s) are provided, and with the keyword «itinerary» a link to the itinerary (chronological list of waypoints) of a specific field trip is given. Field book pages are cited in an abbreviated form deriving from their unique identifier, e.g. HEIDRAUHFDB041_083 abbreviated as FDB041, 83. Page scans are available with URLs like: http://scriptorium.cos.uni-heidelberg.de/page/?HEIDRAUHFDB041_083.

Rauh 24786, 24787 & 24788: Date and locality

Entries: 24786: 13659 — 24787: 13660 — 24788: 13661.

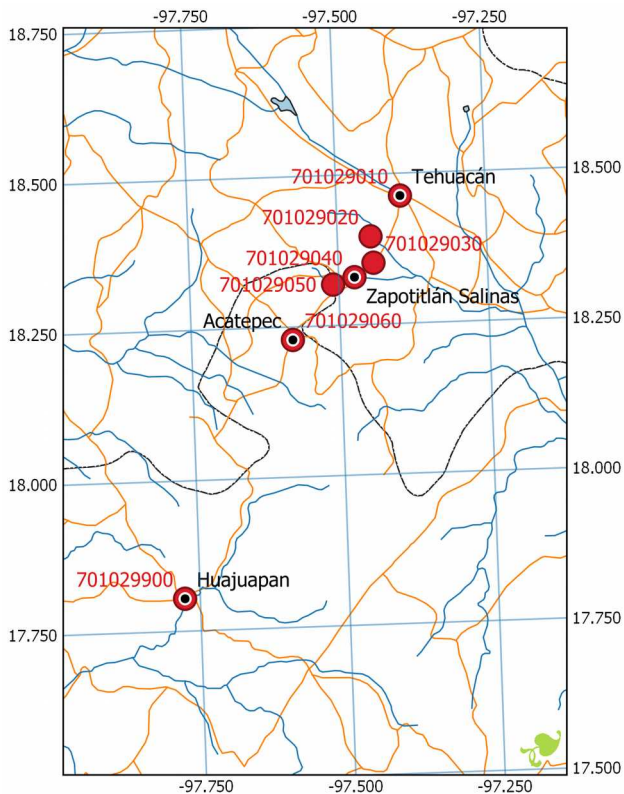
Itinerary: 1970 : Peru, Ecuador, Mexico & USA.

Date

On page **FDB041, 83** Rauh doesn't mention any gathering date together with the numbers Rauh 24786 ... 24788, but the date can be determined from an other field book, where he describes the trip of the day. The headline and trip of the day is found on page **FDB042, 5**: «29.10.70 Tehuacán – Huajuapán de León» (see map). On page **FDB042, 6** the locality noted with Rauh 24786 ... 24788 (FDB 41, 83: «30 km südl. Tehuacan») is cited as «Km 30», with a brief description of *Stenocereus* Rauh 24788. On both pages (FDB041, 83 & FDB042, 6) a *Nolina* is mentioned. So there is no doubt that both pages refer to the same gathering event. Because of this the gathering date is: **1970-10-29**.

Locality

The locality must be between San Antonio Texcala [Puebla, 18.3963, -97.4444], mentioned on the page before as previous locality [Id. 701029020] and km



Werner Rauh, trip of day 1970-10-29
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39 «im Flußtal» [in the river valley] on highway MEX-125 from Tehuacán to Huajuapán. The only valley of a river in this distance from Tehuacán is the valley of Río Zapotitlán, where Rauh crossed the river near Zapotitlán Salinas at Puente Río Zapotitlán [Id. 701029050], but this is exactly 29 km away from Tehuacán. Most likely Rauh was wrong by 10 km when he noted the distance. Was it the same with the locality of Rauh 24786 ... 24788? On page FDB041, 83 Rauh mentions the locality as «30 km südl. Tehuacán, 1800 m» [30 km S of Tehuacán, 1800 m.s.m.] and on page FDB042, 6, respectively, as «bei Km 30» [near km 30]. The elevation of the point 30 km S of Tehuacán is about 1550 m.s.m., in the valley of Río Zapotitlán. But if we subtract 10 km we come to the point 20 km from Tehuacán, which is exactly the mountain pass of MEX-125 between the town and the river valley, at an elevation of ca. 1750 m.s.m. The landscape corresponds to the ecology of the noted and gathered taxa. So it is most likely that the real locality where Rauh collected the plants Rauh 24786 ... 24788 was at **ca. 6 km NE of Zapotitlán Salinas, Puebla, Mexico [18.352216, -97.440974, waypoint Id. 701029030 in the map]**.

References

Koch M.A., C.N. Schröder, M. Kiefer & P. Sack (2013): A treasure trove of plant biodiversity from the 20th century – The Werner Rauh Heritage Project at Heidelberg Botanical Garden and Herbarium. In memoriam of the 100th birthday of Prof. Dr. Werner Rauh (* 16th Mai 1913 in Nie-

megk; † 7th April 2000 in Heidelberg). — *Plant. Syst. Evol.* 299 (9): 1793–1800. [online]

DIVA-GIS (2020+): Free Spatial Data. [Shape files for the maps in this document were downloaded from www.diva-gis.org].