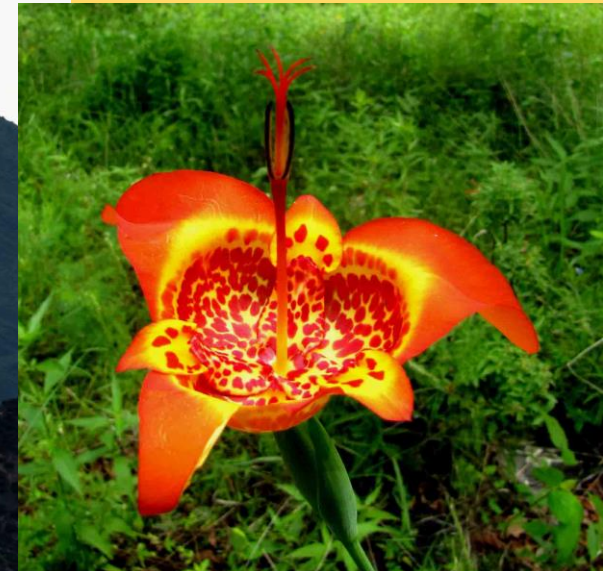
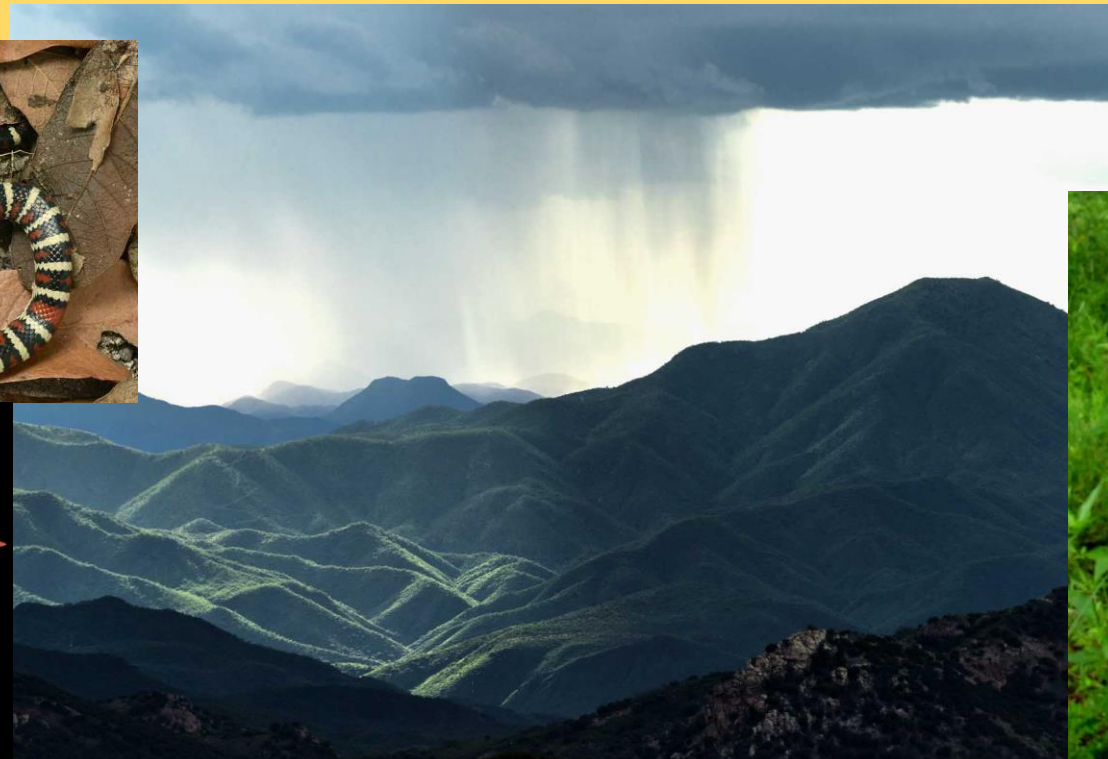


The Madrean Discovery Expeditions Database: Documenting Sky Island Biodiversity

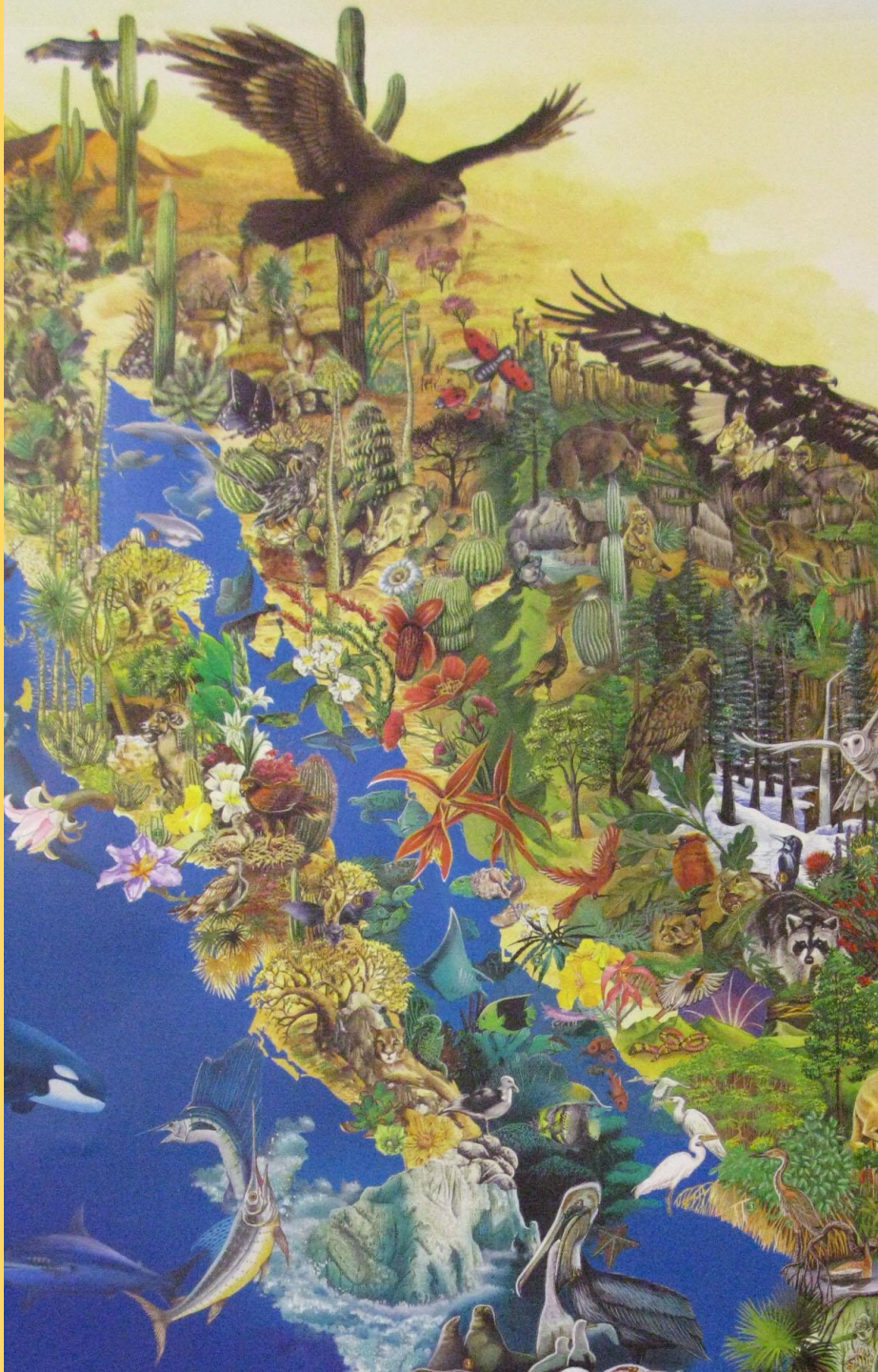
Thomas R. Van Devender, Ed Gilbert
GreaterGood.org



GreaterGood.org
GIVE WHERE IT MATTERS

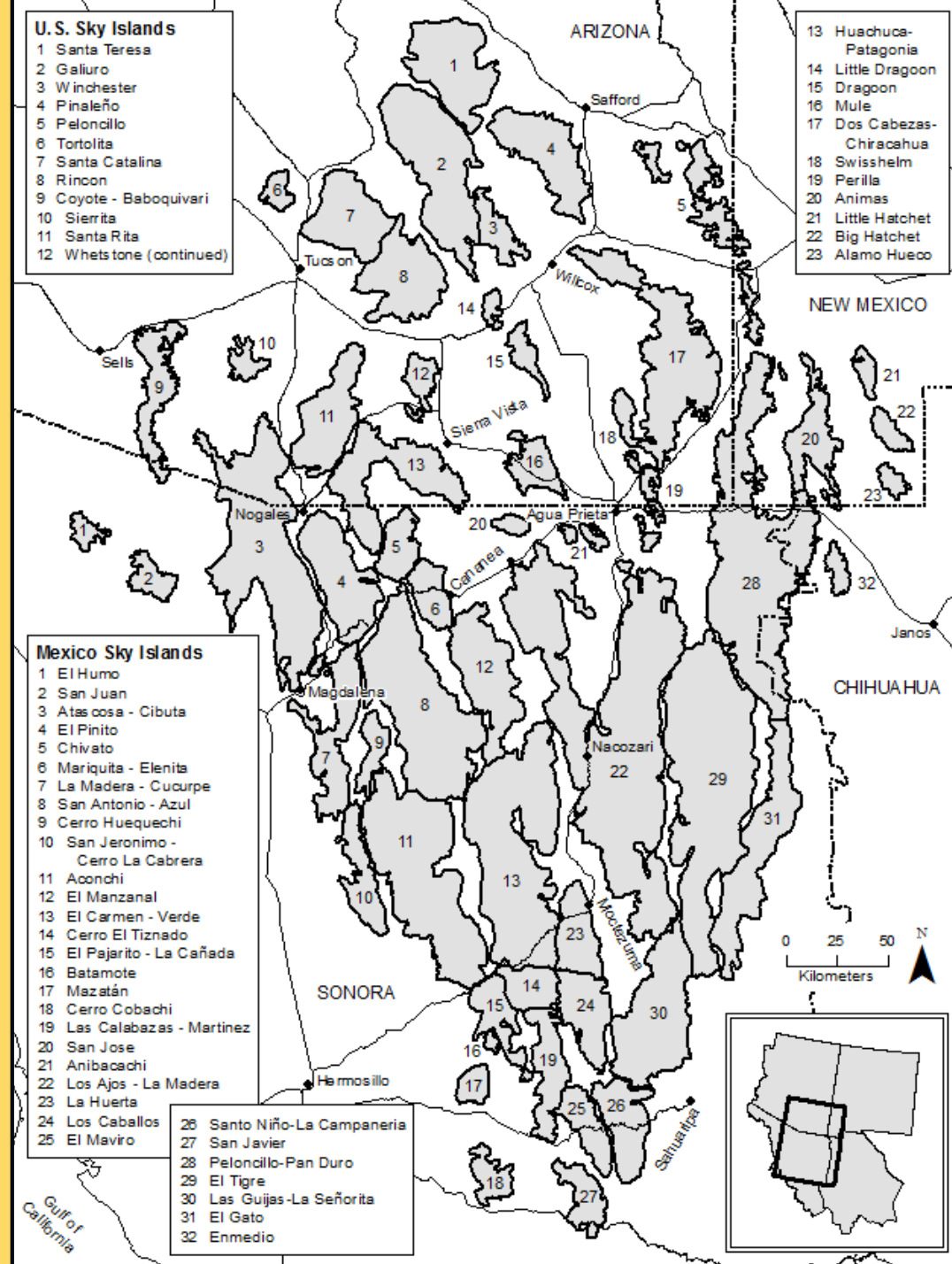


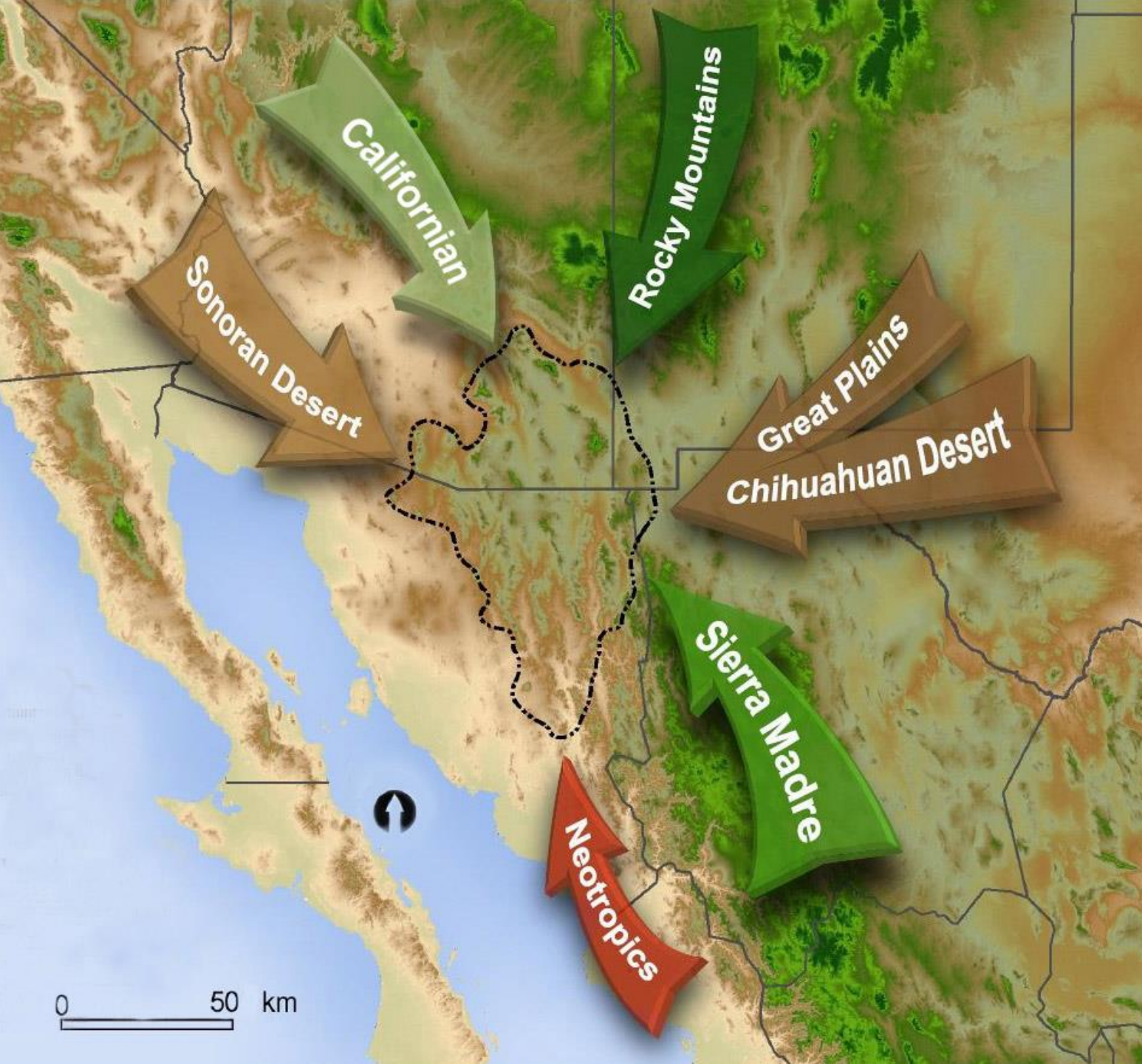
The biodiversity of Mexico and Sonora are high at global levels, especially in the Sierra Madre Occidental.



Sky Islands = Madrean Archipelago

55 Sky Islands and
complexes: México (32)
and U.S. (23). Nick Deyo
and Alex Smith, Sky Island
Alliance 2012

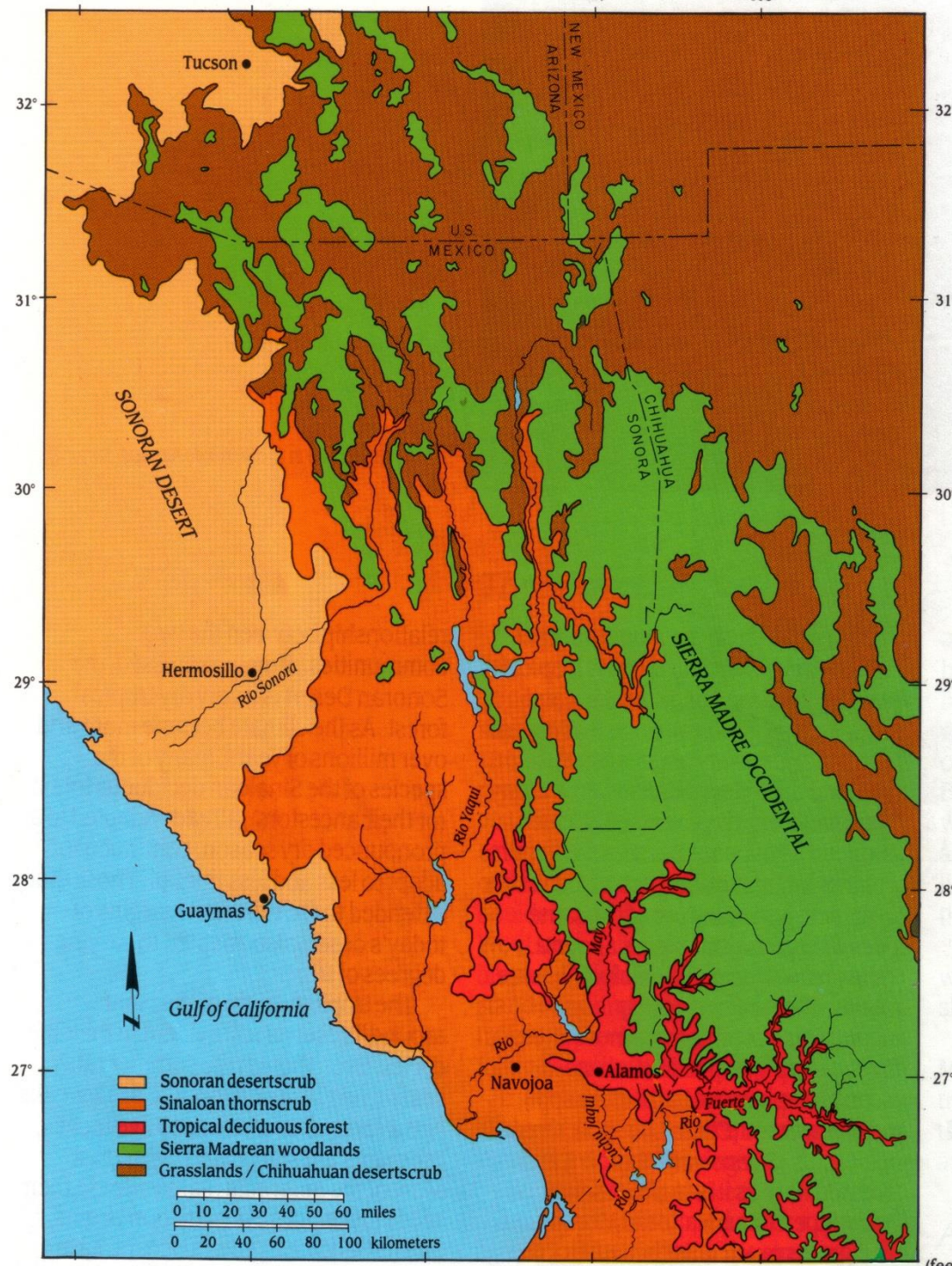




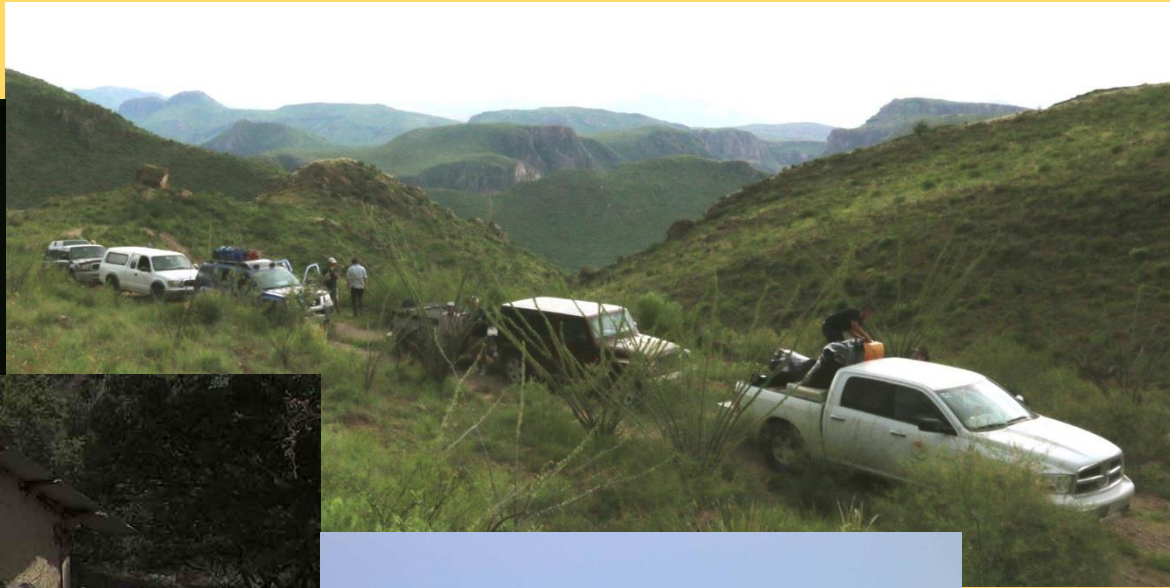
**Convergence of
six biotic
provinces.**

Vegetation of Sonora

Northern limit
of the New
World tropics



Madrean Archipelago Biodiversity Assessment & Madrean Discovery 15 Expeditions 2009-2018



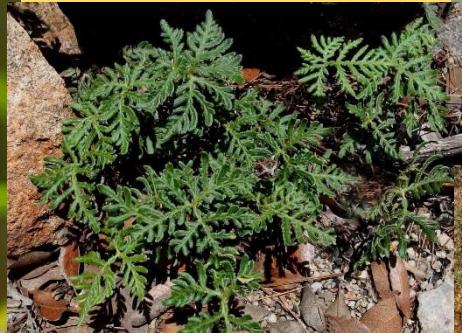


Animals!

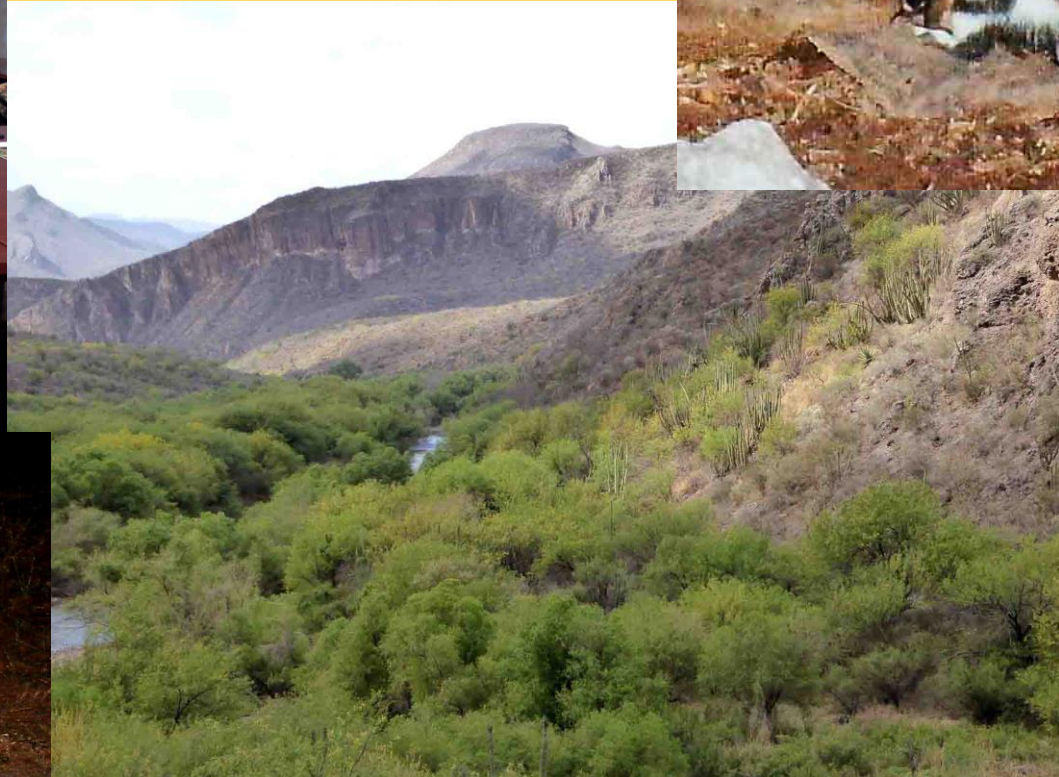
Lots of insects and entomologists!



Plants!



Project WILDCAT Predator protection.



GreaterGood.org.
Primero Conservación, Inc.



Wildlife camera records.

Chica



Coyote



Tlacuachi



**Liebre
Aura**

Zorra

The Madreran Discovery Expeditions Database

Focus: Madrean Archipelago-Sonora, Mexico. All species of animals and plantas. Publicly available.

Observations. Specimens. Photos.



Madreandiscovery.org

MDE and MABA Databases SEINet, SYMBIOTA, iDigBio

MADREAN DISCOVERY EXPEDITIONS
FLORA & FAUNA DATABASE

a program of  GreaterGood.org in partnership with  TheRainforestSite.com™

Welcome, and Thank You for Visiting the Madrean Discovery Portal

Flora Database



Click here to access hundreds of thousands of plant records in the Sky Island region, build species checklists, view existing checklists, view species images, and customize taxonomic keys for areas of interest.

Fauna Database



Click here to access hundreds of thousands of animal records in the Sky Island region, build species lists, view existing species lists, and find species images.

SEINet

iDigBio

madreandiscovery.org



Select/Deselect All

-  **Arizona State University Hasbrouck Insect Collection (ASU-Entomology)** [more info](#)
-  **Arizona State University Herpetology Collection (ASU-ASUHEC)** [more info](#)
-  **Arizona State University Ichthyology Collection (ASU-ASUFISH)** [more info](#)
-  **Arizona State University Mammal Collection (ASU-ASUMAC)** [more info](#)
-  **Brigham Young University Mammal Collection (MLB-Mammal)** [more info](#)
-  **Museo de Zoología, Universidad de Puerto Rico, Río Piedras (UPRRP-MZUPRRP)** [more info](#)
-  **Sam Noble Oklahoma Museum of Natural History - Herpetology collection (OU-Herpetology)** [more info](#)
-  **Sam Noble Oklahoma Museum of Natural History - Ornithology (OU-ornithology)** [more info](#)
-  **Tall Timbers Research Station - Mammals (TTRS-Mammals)** [more info](#)
-  **Tall Timbers Research Station - Ornithology (TTRS-Ornithology)** [more info](#)
-  **University of Arizona Mammal Collection (UA-Mammals)** [more info](#)
-  **University of Central Oklahoma Collection of Vertebrates (UCOCV-MAM)** [more info](#)
-  **University of Michigan Museum of Zoology (UMMZ-UMMZ)** [more info](#)

Choose collections: All or individual



madreandiscovery.org

-  **Ajos-Bavispe National Forest and Wildlife Refuge (Ajos-Bavispe)** [more info](#)
-  **Arizona State University Herpetology Photo Observations (ASU-ASUHP)** [more info](#)
-  **Comisión Nacional para el Conocimiento y Uso de la Biodiversidad (CONABIO)** [more info](#)



Enter Search Parameters

Fill in one or more of the following query criteria and click "Search" to view your results.

Show results in table view

Taxonomic Criteria:

Include Synonyms from Taxonomic Thesaurus

Family or Scientific Name



Locality Criteria:

Country:

State/Province:

County:

Locality:

Elevation: to

Madreandiscovery.org

Latitude and Longitude:

Bounding box coordinates in decimal degrees

Northern Latitude: N

Southern Latitude: N

Western Longitude: W

Eastern Longitude: W

Point-Radius Search

Latitude: N

Longitude: W



Radius: Kilometers



**Search parameters: scientific name,
locality, etc.**

MADREAN DISCOVERY EXPEDITIONS

FLORA & FAUNA DATABASE

a program of  GreaterGood.org™ in partnership with  TheRainforestSite.com™

[Home](#)[Flora Database](#)[Search Collections](#)[Map Search](#)[Image Search](#)[Browse Images](#)[Inventories](#)[Interactive Tools](#)[Log In](#) [New Account](#) [Sitemap](#)

Home >> Collections >> Search Criteria >> **Specimen Records**

[Species List](#)[Occurrence Records](#)[Maps](#)

Dataset: Ajos-Bavispe

Search Criteria: Sonora

See Results in Table View

1 2 3 4 5 6 7 8 9 10 >> Last

Page 1, records 1-100 of 1263

Ajos-Bavispe National Forest and Wildlife Refuge



Ajos-Bavispe

Aphelocoma mexicanus

ajo-con-1 CONANP Biologist

Mexico, Sonora, Bacoachi, 19.47 Km west southwest of Coquiarachi "10.7 km (by air) WSW of Fronteras" in the Buenos Aires unit of the Ajos Bavispe CONANP Reserve, 30.77600 -109.83500, 1459m

[Full Record Details](#)

madreandiscovery.org

Selected records can be download.



GreaterGood

Madrean Discovery Expeditions

Complete Record

Catalog #: mde-10974

Occurrence ID (GUID): 88f635d7-7906-4b32-88f7-f72825e7bffb

Taxon: *Nolina matapensis* Wiggins

Family: Asparagaceae

Collector: T.R. Van Devender

Date: 2016-11-23

Verbatim Date: 23-Nov-16

Additional Collectors: A.L. Reina-G., J.M. Galaz-G.

Locality: Mexico, Sonora, Divisaderos, N of el Ranchito de Don Chano, Rancho Pueblo Viejo, 18.6 km (by air) E of Divisaderos.

29.61694 -109.27889

Verbatim Coordinates: 29° 37m 1s 109° 16m 44s

Elevation: 1119 meters (3670ft)

Habitat: Oak woodland-foothills thornscrub transition.

Specimen Images



[Open Medium Image](#)
[Open Large Image](#)



[Open Medium Image](#)
[Open Large Image](#)



[Open Medium Image](#)
[Open Large Image](#)



[Open Medium Image](#)
[Open Large Image](#)

Madreandiscovery.org

Taxonomic Filter: Raw Data

**Taxa Count: 45****ACCIPITRIDAE**

Aquila chrysaetos
Buteo jamaicensis
Buteo plagiatus

CANIDAE

Canis latrans
Urocyon cinereoargenteus

CARDINALIDAE

Cardinalis cardinalis

CERVIDAE

Odocoileus hemionus
Odocoileus virginianus

CICONIIDAE

Cathartes aura

COLUMBIDAE

Zenaida macroura

CORVIDAE

Aphelocoma wollweberi
Corvus corax

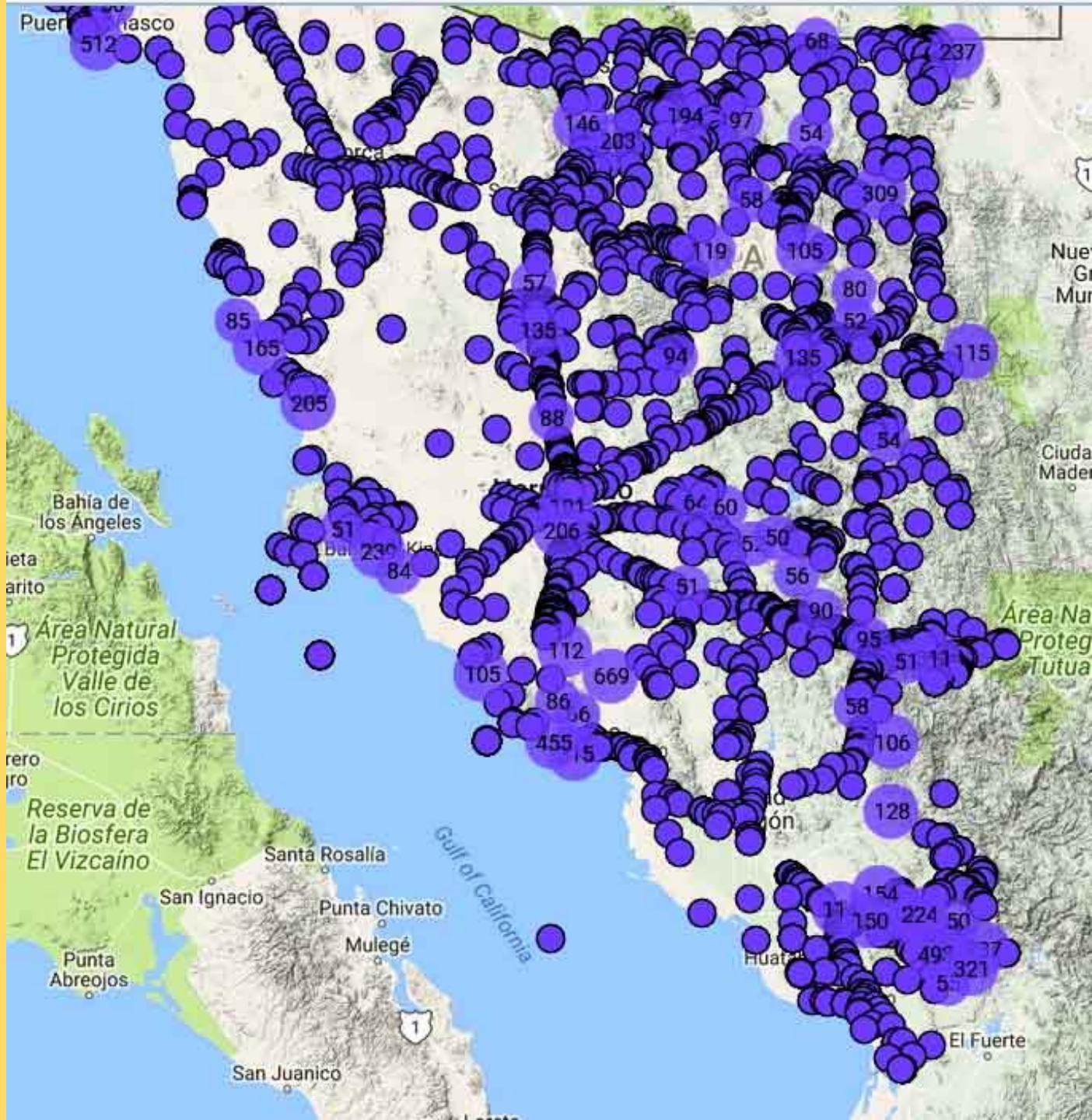
CRICETIDAE

**Records convert to
Species List. Download
as a CSV file, open in
EXCEL, edit and copy
into WORD file.**

madreandiscovery. org



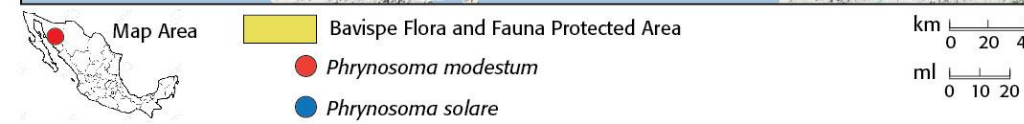
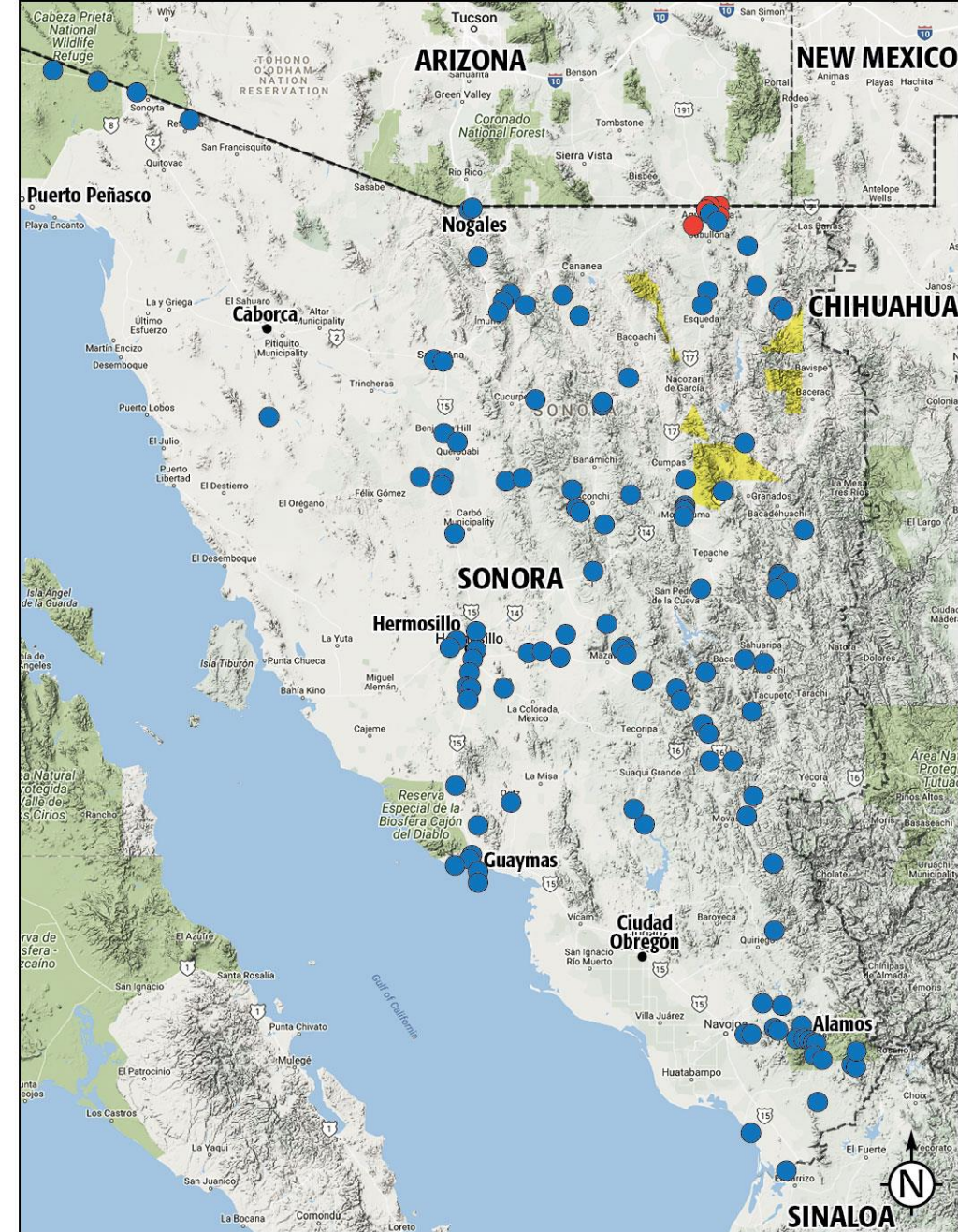
Google Map individual Species. Distribution of *Nolina matapensis*.



314,184 Sonoran records: 163,117 animals and 151,067 plants.

Google Map of 22,583 reptile records.

Publication map generated from database Google Map.





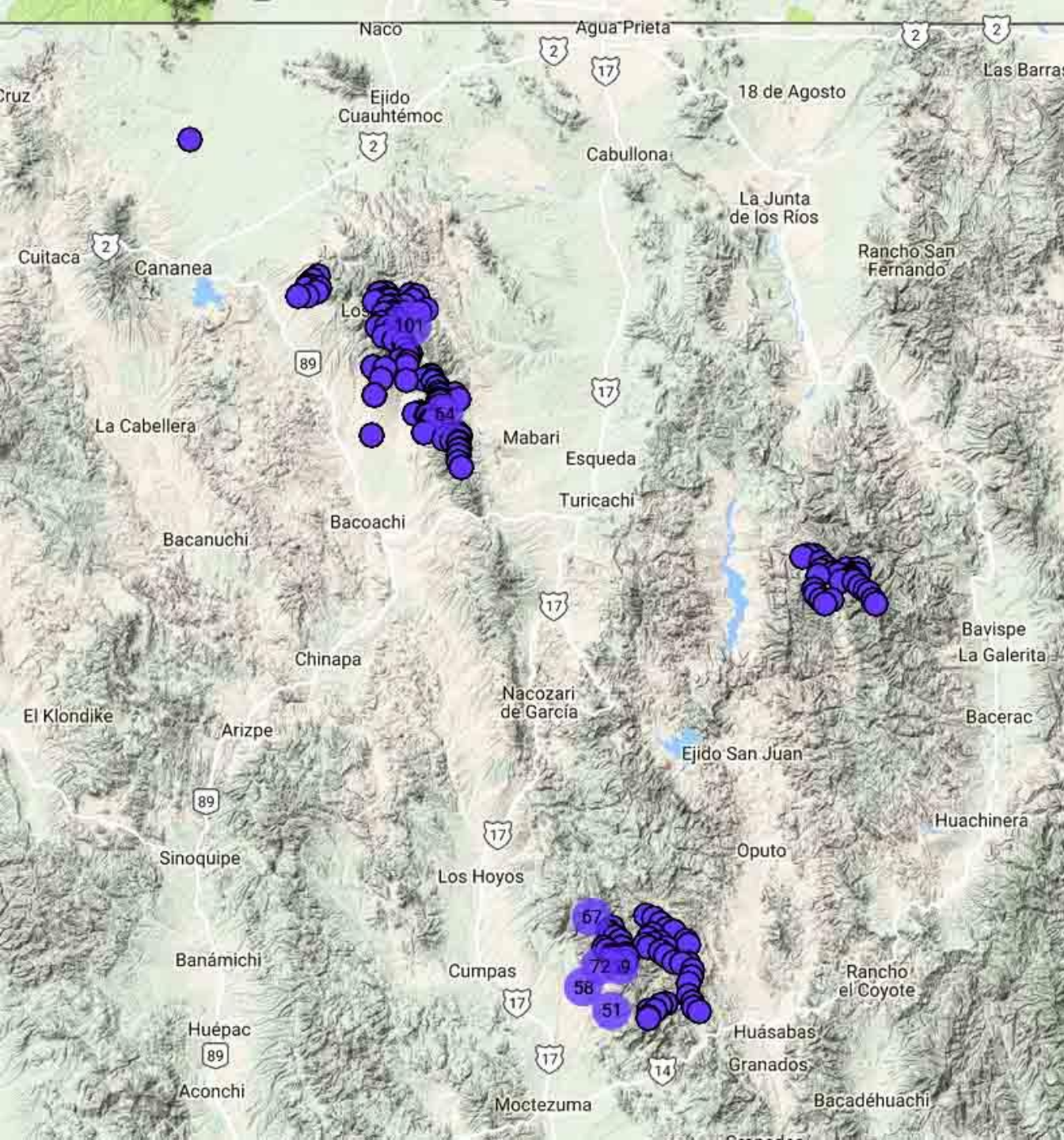
RESERVA FORESTAL NACIONAL Y
REFUGIO DE FAUNA SILVESTRE

AJOS-BAVISPE

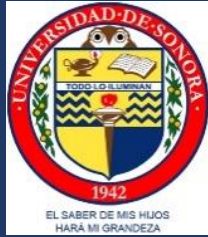


Bavispe A.P.F.F. monitoring.





**2707 animal records.
Each point opens
to see complete
record.**



Red de Herbarios del Noroeste de México

Primer consorcio de herbarios mexicanos

José Jesús Sánchez Escalante¹, Edward Gilbert², Thomas R. Van Devender³

¹ Herbario USON, Universidad de Sonora, Hermosillo, Sonora.

² Arizona State University, School of Life Sciences, Tempe, Arizona.

³ GreaterGood.org, 6262 N. Swan Rd., Suite 150, Tucson, Arizona 85718

Primera reunión

Hermosillo, Sonora – Herbario USON/Universidad de sonora

18 al 20 de abril de 2015

BCMEX (Universidad Autónoma de Baja California), HCIB (Centro de Investigaciones Biológicas del Noroeste, La Paz, BCS), CIIDIR (IPN, Durango), UAS (Universidad Autónoma de Sinaloa), USON (Universidad de Sonora, Hermosillo); IEB (Instituto de Ecología, Pátzcuaro), INEGI (Aguascalientes), ARIZ (University of Arizona), ASU (Arizona State University), SD (San Diego Natural History Museum) Ben Wilder (N-GEN) y Thomas Van Devender (MABA project)



San Diego



MEX

Baja California

Texas



Sonora

CHIH
Chihuahua

Coahuila de Zaragoza

Baja California Sur

Nuevo León



Sinaloa

Tamaulipas



Durango

COAHUILA DE ZARAGOZA



CIAD

Zacatecas

Google earth

Data SIO, NOAA, U.S. Navy, NGA, GEBCO
© 2015 Google
Image Landsat
© 2015 INEGI



Fechas de imágenes: 4/9/2013 27°19'38.85" N 108°01'18.34" O elevación 2101 m alt. ojo 1674.76 km

Tercera reunión

Durango, dgo. – Herbario ciidir/ipn

18 al 20 de octubre de 2017

Herbarios BCMEX (Universidad Autónoma de Baja California), CIIDIR (IPN, Durango), HCIAD (CIAD, Mazatlán), USON (Universidad de Sonora, Hermosillo), SLPM (Universidad Autónoma de San Luis Potosí, UAA (Universidad Autónoma de Aguascalientes), QMEX (Universidad Autónoma de Querétaro), IBUG (Universidad de Guadalajara), JAAA (Universidad Juárez del Estado de Durango), y el Herbario INEGI (Aguascalientes).

Luis Hernández (Sociedad Botánica de México) y Thomas Van Devender (GreaterGood.org).





So much to learn!