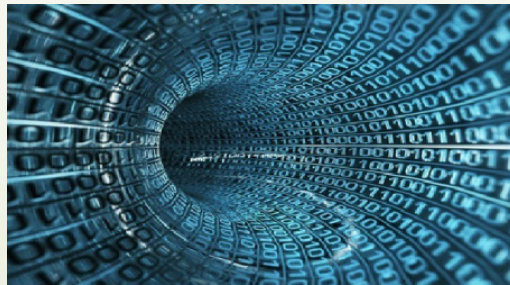


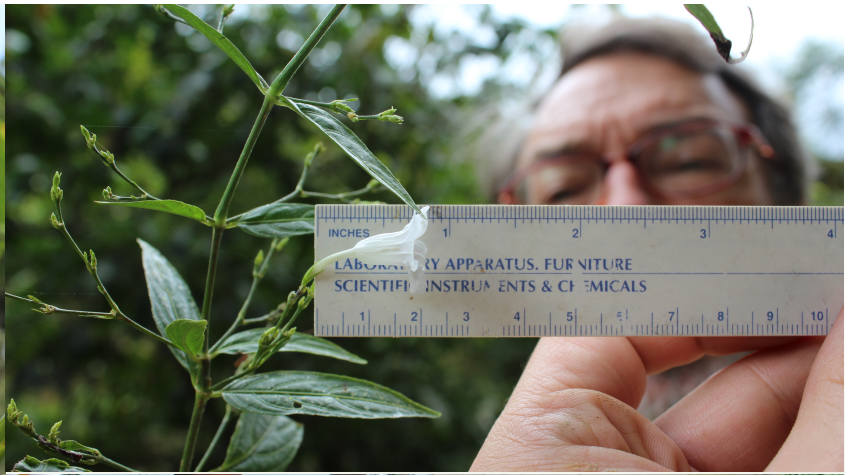
USING DIGITAL RESOURCES TO PLAN FIELD EXPEDITIONS



Grant Godden
Postdoctoral Researcher

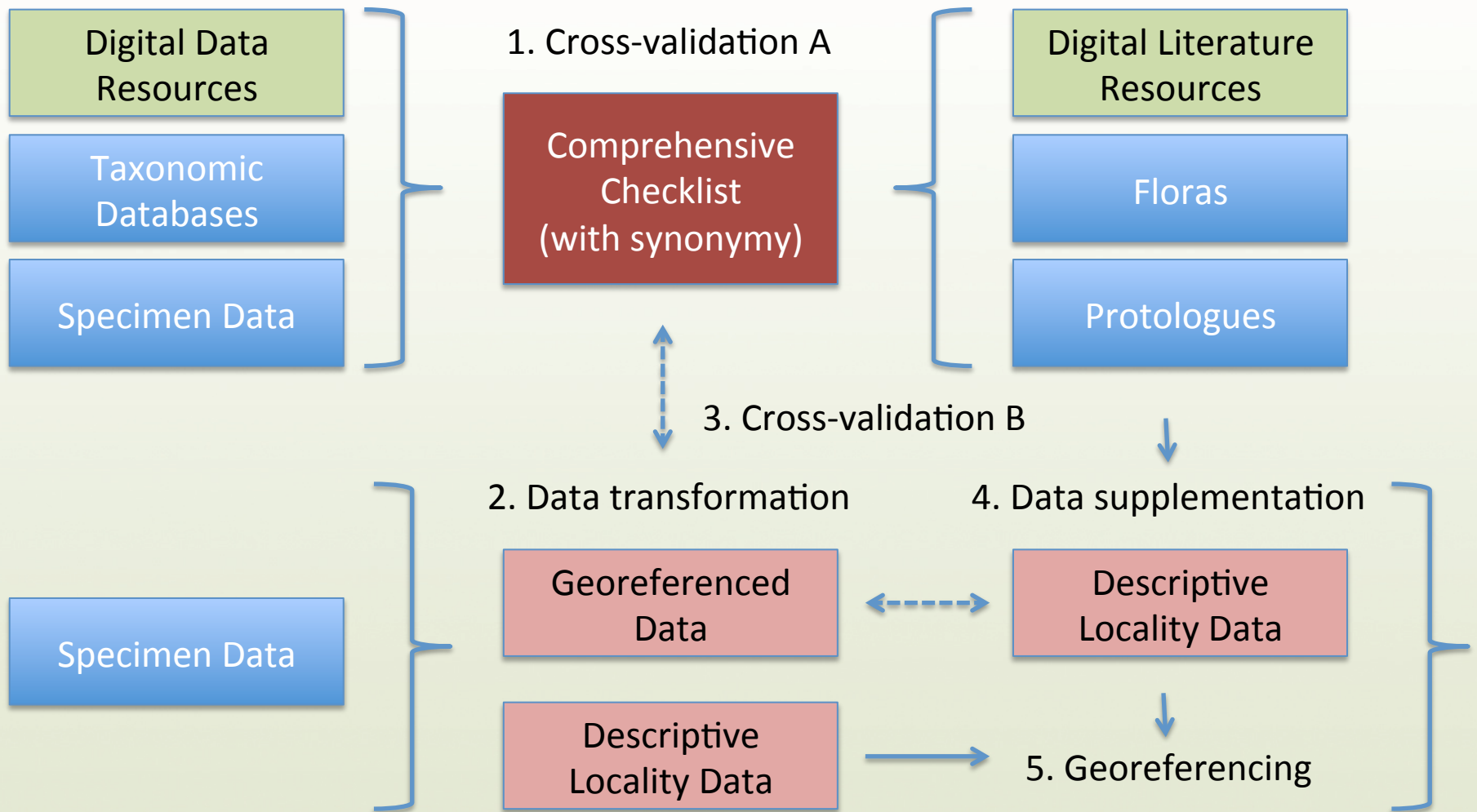
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Ruellia

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Genus: Intraspecific: Collation:

Species: Title Page Year:

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Records 1 - 100 of 731 Page 1 of 8

Family	Scientific Name	Author	Reference	Date
Acanthaceae	Ruellia	L.	Sp. Pl. 2: 634	1753
Acanthaceae	Ruellia abbreviata	D.N. Gibson	Fieldiana, Bot. 34(6): 78	1972
Acanthaceae	Ruellia acaulis	R. Br.		

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Names (Ruellia macrophylla)

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Narrow by:

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Results 1 - 9 of 9

25 50 100

Sort by Taxonomy

Page 1 of 1

Ruellia fulgida



Filed as *Ruellia fulgida* Andrews [family ACANTHACEAE]

Collector Roth, A.W., #s.n.

Collection Date None

Resource Type Specimens

Country Unknown

Herbarium M

Identifications *Ruellia fulgida* Andrews [family ACANTHACEAE] (stored under name);

Ruellia macrophylla Willd. ex Nees [family ACANTHACEAE]; Verified by Montes de Oca, P., 2012/07/27

Ruellia macrophylla



Syntype of *Ruellia macrophylla* Vahl [family ACANTHACEAE]

Collector Rohr, J.P.B. von, #72

Collection Date None

Resource Type Specimens

Country Colombia

Herbarium C



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Records: 15
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Family: acanthaceae [Present] [Add EOL Missing] [What is EOL?]

Scientific Name: [Scientific Name] [Present] [Add EOL Missing] [What is EOL?]

Genus: ruellia [Present] [Add EOL Missing] [What is EOL?]

Country: brazil [Present] [Missing]

State/Province: [State/Province] [Present] [Missing]

Add a field: please select

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Search Matched 15 Records

Family	Scientific Name	Genus	Country	State/Province
Acanthaceae	Ruellia brevicaulis	Ruellia	Brazil	Pernambuco
Acanthaceae	Ruellia cianoides	Ruellia	Brazil	Mato Grosso do Sul
Acanthaceae	Ruellia curviflora	Ruellia	Brazil	Espírito Santo

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963 Occurrences [Download]

6963 results [Configure] [Add a filter]

COUNTRY: Colombia

SCIENTIFIC NAME: *Ruellia Linnaeus, 1753*

LOCATION	BASIS OF RECORD	DATE
1081292111 - Cat. TOLI-010915 Ruellia tubiflora Kunth Published in <i>Herbario virtual bosques secos de Colombia - Sección herbari...</i>	Colombia 4.28° 74.91° Elevation: 312m	Specimen 1/2014
1081292340 - Cat. TOLI-011246 Ruellia tubiflora Kunth	Colombia	Specimen 1/2014

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Resultados de la búsqueda (102)

Exportar Resultados
Hoja de calculo (*.csv) [Exportar]

Páginas: 1 2 3 4 5 6 7 8 9 10 11 Siguinte...Ultima

- COL000210128, *Ruellia* Ubicación: COLOMBIA, MAGDALENA, SANTA MARTA Localidad: Sierra Nevada de Santa Marta. Colector(es): Smith, Ea. N° Colección: 1568 Fecha: 1946-05-19
- COL000210204, *Ruellia* Ubicación: COLOMBIA, CUNDINAMARCA, GUADUAS Localidad: Carretera a Guadua. Colector(es): Uribe U., L. N° Colección: 2950 Fecha: 1957-05-19
- COL000210092, *Ruellia* Ubicación: COLOMBIA, VALLE DEL CAUCA, SANTIAGO DE CALI Localidad: Cali. Colector(es): Duque J., J. M. N° Colección: 4321 Fecha: 1947-01-01

Screenshot of a spreadsheet application (Google Sheets) displaying a table with columns for ID, Species Name, Location, Basis of Record, and Date. The table contains multiple rows of data corresponding to the search results shown in the GBIF interface.

Colombia_all_localities.xlsx

Search in Sheet

Home Layout Tables Charts SmartArt Formulas Data Review

Edit Font Alignment Number Format Cells Themes

B1 scientificName

	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
	scientificName	recordedBy	recordNumber	institutionCode	month	day	year	country	stateProvince	county	municipality	locality	habitat	fieldNotes	phenology
1	scientificName	recordedBy	recordNumber	institutionCode	month	day	year	country	stateProvince	county	municipality	locality	habitat	fieldNotes	phenology
2	Ruellia chartacea (T. Anderson) Wassh.	J. Pipoly with		MO		11	11	1991	Colombia	Amazonas	Leticia	Parque Nacional Natural Amacayacu. Quebrada de Agua Pu			
3	Ruellia L.	Rudas Agustín	2859	FMB		8	13	1991	Colombia	Amazonas	Leticia	Centro Administrativo Matamata (INDEREN flor			
4	Ruellia L.	Rudas Agustín	2147	FMB		6	19	1991	Colombia	Amazonas	Tarapacá	Río Cotohé. margen derecha del río en los fruto			
5	Ruellia L.	Rudas Agustín	2903	FMB		8	15	1991	Colombia	Amazonas	Leticia	Centro administrativo Mata-matá (INDEREI flor			
6	Ruellia L.	Rudas A. G. Morán y B. Mor		FMB		8	15	1991	Colombia	Amazonas	Leticia	P.N.N. Amacayacu. centro administrativo Mata-matá (INDER			
7	Ruellia L.	A. Rudas A. Prieto G. y B. M		MO		8	13	1991	Colombia	Amazonas		Municipio de Leticia; Parque Nacional Natural Amacayacu.			
8	Ruellia neoneesiana Wassh.	A. Rudas P. Palacios S. Duq		MO		6	19	1991	Colombia	Amazonas		Municipio de Leticia; Corregimiento de Tarapacá; Parque Na			
9	Ruellia blechum L.	A. Gomez et al.		MO		12	30	1992	Colombia	Antioquia	Arboletes	Aldedores del volcán. bs-T.			
10	Ruellia L.	Vélez J.; Villa	5680	FMB		10	9	2003	Colombia	Antioquia	Támesis	Vda. El Hacha. finca La Miranda		flor	
11	Ruellia terminale (Nees) Wassh.	D. Cárdenas J.G. Ramirez & M		MO		9	24	1990	Colombia	Antioquia	San Luis	Correg. El Prodigio. Camino de El Prodigio a la Hacienda El			
12	Ruellia tuberosa L.	Marrugo J. C.		COL		5	26	2001	Colombia	Antioquia		Antioquia; Finca Cotové			
13	Ruellia tuberosa L.	Gutiérrez V. G.		COL		10	9	1947	Colombia	Antioquia	RIONEGRO	2 Km al norte de Antioquia.			
14	Ruellia tubiflora Kunth	Romero C. R.		COL					Colombia	Antioquia	SAN LUIS	Cocorna.cer.confluencia de los ríos Cocorna y Magdalena.			
15	Ruellia geminiflora Kunth	González Mar	1349	FMB		3	15	2013	Colombia	Arauca	Araucuita	Banco Sabana		esteril	
16	Ruellia tuberosa L.	Hermano Elias		F					Colombia	Atlántico					
17	Ruellia ciliatiflora Hook.	O. Marulanda et al.		MO		2	18	1989	Colombia	Bolívar	San Martín de Loba	Pueblo Nuevo. alrededores de la Ciénaga el Totumo. camin			
18	Ruellia L.	James L. Zarocchi & Hermes		MO		8	8	1985	Colombia	Bolívar		Mun. de San Jacinto; 8 km from San Jacinto on road to Cerr			
19	Ruellia obtusa Nees	James L. Zarocchi & Hermes		MO		8	6	1985	Colombia	Bolívar		Mun. de Cartagena; ca. 6 km SW of crossing of Canal del Di			
20	Ruellia tuberosa L.	Ricardo Rueda y Hermes Cu		MO		5	20	1992	Colombia	Bolívar		Municipio San Juan Nepomuceno. Loma de los Colorados.			
21	Ruellia tuberosa L.	Hermes Cuadros V.		MO		9	21	1989	Colombia	Bolívar	Cartagena	Isla Baru.			
22	Ruellia tuberosa L.	H. Cuadros		MO		9	6	1989	Colombia	Bolívar	Cartagena	Bolívar. Mpio. Cartagena. Isla de Tierra Bomba.			
23	Ruellia inundata Kunth	Mendoza Hun	1555	FMB		6	1	1985	Colombia	Bolívar	Zambrano	Monterrey Forestal S.A		flor	
24	Ruellia inundata Kunth	H. Mendoza	1555	FMB					Colombia	Bolívar	Zambrano	Monterrey For bosque seco tropical			
25	Ruellia L.	Mendoza Hun	1968	FMB		9	1	1996	Colombia	Bolívar	Zambrano	Monterrey Forestal S.A			
26	Ruellia L.	Mendoza Hun	1818	FMB		9	1	1996	Colombia	Bolívar	Cartagena	Isla de Tierra Bomba			
27	Ruellia macrophylla Willd. ex Nees	Mendoza Hun	1930	FMB		9	1	1996	Colombia	Bolívar	Cartagena	Isla de Tierra Bomba		flor	
28	Ruellia macrophylla Willd. ex Nees	H. Mendoza	1930	FMB					Colombia	Bolívar	Cartagena de Indias	Isla de Tierra	bosque seco tropical		
29	Ruellia macrophylla Willd. ex Nees	E. Forero		F		4	22	1966	Colombia	Bolívar					
30	Ruellia macrophylla Willd. ex Nees	Wood John	4470	FMB		6	25	1984	Colombia	Boyacá	Soatá	Bajada de Soatá al río Chicamocha		flor	
31	Ruellia tuberosa L.	Wood J. R. I.		COL					Colombia	Boyacá	SOATA	Soata. rio Chicamocha. Alt. 1500 m..			
32	Ruellia tuberosa L.	Wood J. R. I.		COL					Colombia	Boyacá	SOATA	Soata. rio Chicamocha. Alt. 1500 m..			
33	Ruellia viridiflora Leonard	A. Lawrence	491	US		9	30	1932	Colombia	Boyacá		Region of Mt. Chapon. 130 mi NW of Bogota. Extreme weste			
34	Ruellia L.	G. Davidse A. Gentry & F. Li		MO		1	11	1974	Colombia	Caqueta		10 km SW of San José del Frague (SW of Florencia); tall rain			
35	Ruellia rusbyi Leonard	McDade L.; S	950	FMB		1	19	1986	Colombia	Cauca		17 km south of Rosas on road between pas for y fruto			
36	Ruellia blechum L.	J. Espina F. Garcia & S. Pinc		MO		4	16	1989	Colombia	Chocó	Bahia Solano	Corregimiento El Valle. trocha El Valle-Boro Boro.			
37	Ruellia chariessa Leonard	Luis E. Forero		MO		7	3	1976	Colombia	Chocó	Acandí	Corregimiento de Unguía; Reserva Indígena Cuna de Arquía			
38	Ruellia colombiana Leonard	Franco R. P.		COL					Colombia	Chocó	NOVITA	Margen izquierda del río Ingara.			
39	Ruellia colombiana Leonard	Forero G. E.		COL					Colombia	Chocó		Carretera entre San José del Palmar-Novita.			
40	Ruellia L.	A. Gentry & M. Fallen		MO		8	11	1976	Colombia	Chocó		Second growth and forest edge behind Bahía Solano. tropica			

Normal View Ready Sum=0

GBIF_Geolocate_Colombia3.csv

Search in Sheet

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Calibri (Body) 12

Normal

Name	Description	Latitude	Longitude
Ruellia cuatrecasii Wassh.	J. Cuatrecasas & L. Willard (MO). Date: 10/1/1961. Locality: Colombia; ; ; Between Villa Arteaga and Chigorodó. El Tigre; . Phenology: . Elevation: 100(). Lat/Lon	-3.712807	-70.317995
Ruellia thyrsochrysa Lindau	A. Rudas A. Prieto G. y B. Morán (MO). Date: 8/13/1991. Locality: Colombia; Amazonas; Leticia; ; Parque Nacional Natural Amacayacu. Centro Administrativo Mat	-3.78333	-70.25
Ruellia terminale (Nees) Wassh.	E. Rentería y otros (MO). Date: 3/28/1986. Locality: Colombia; Antioquia; ; ; Sector Urabá-Chigorodó-Malagón. el Blanco. Caño despues de la Puerca-Malagón; .	-3.786605	-70.363662
Ruellia ischnopoda Leonard	Uribe U. L. (COL). Date: 1/19/1952. Locality: Colombia; Antioquia; MEDELLÍN; ; CARRETERA AL MAR; . Phenology: . Elevation: 2500(). Lat/Long: . ID: 322156806. S	8.097927	-76.694292
Ruellia terminale (Nees) Wassh.	R.D. Metcalf & J. Cuatrecasas (MO). Date: 2/17/1942. Locality: Colombia; Antioquia; ; ; Banks of the Río Cauca at Puerto Valdivia; . Phenology: . Elevation: 250().	7.287778	-75.394444
Ruellia inundata Kunth	Dugand A. (COL). Date: 12/15/1944. Locality: Colombia; Atlántico; PUERTO COLOMBIA; ; FRUTICETUMEN COLINAS ARIDAS CERCA DE LA PLAYA DE MIRAMAR; .	7.478806	-76.536204
Ruellia paniculata L.	H. Cuadros (MO). Date: 1/31/1987. Locality: Colombia; Bolívar; Carmen de Bolívar; ; Vía Carmen-Zambrano; . Phenology: . Elevation: (). Lat/Long: . ID: 68580615	10.982812	-74.799313
Ruellia terminale (Nees) Wassh.	Cárdenas D. 40502 (COAH). Date: 10/20/2010. Locality: Colombia; Caquetá; Valparaiso; ; vereda la Estrella. finca Brasil; . Phenology: . Elevation: (). Lat/Long: . ID:	4.397808	-74.827313
Ruellia cooperi Leonard	A. Gentry & M. Fallen (MO). Date: 8/8/1976. Locality: Colombia; Chocó; ; ; North ridge of Alto de Buey. premontane wet forest. ESW of El Valle; .	-1.412651	-69.975707
Ruellia nudiflora (Engelm. & A. Gray) Urb.	Al Gentry (MO). Date: 3/21/1972. Locality: Colombia; Chocó; ; ; Sautata. edge of Río Atrato; . Phenology: . Elevation: (). Lat/Long: . ID: 146357637. Source: GBIF S	-3.214766	-70.31426
Ruellia terminale (Nees) Wassh.	Thomas B. Croat (MO). Date: 2/22/1990. Locality: Colombia; Chocó; ; ; Along road between Pueblo Rico (Risaralda) and Istmina (Chocó). along Quebrada Antón. 1	5.34	-76.23
Ruellia chartacea (T. Anderson) Wassh.	Evans S. R. (COL). Date: 4/2/1942. Locality: Colombia; Putumayo; ; ; RIO SAN MIGUEL O SUCUMBIDOS. CONEJO Y LOS ALREDEDORES. EN FRENTE DE LA QUEBRADA	-4.145006	-69.956249
Ruellia tubiflora var. parviflora Leonard	J. A. Ewan 16785 (US). Date: 1/16/1945. Locality: Colombia; Putumayo; ; ; Between San Pedro & Lajoya. below Umbria; . Phenology: . Elevation: (). Lat/Long: . ID	7.287778	-75.394444
Ruellia aquatica Leonard	O. L. Haught (NY). Date: 6/9/1935. Locality: Colombia; Santander; ; ; Vicinity of Puerto Berrio. between Carare and Magdalena Rivers; . Phenology: . Elevation: 40	-3.708069	-70.337494
Ruellia tetrastrichantha Lindau	E.P. Killip & Albert C. Smith 19359 (MA). Date: 2/16/1927. Locality: Colombia; Sas; ; ; Vicinity of El Roble; . Phenology: . Elevation: 1500(). Lat/Long: . ID: 2171747	-3.805	-70.305556
Ruellia malacosperma sensu Small non Greenm.	Wood JR.I. (FMB). Date: 1/1/1983. Locality: Colombia; Tolima; ; ; Gualanday between Ibagué and Espinal; . Phenology: . Elevation: 500(). Lat/Long: . ID: 3221	7.524073	-76.598269
Ruellia malacosperma sensu Small non Greenm.	Cuatrecasas J. (COL). Date: 6/4/1943. Locality: Colombia; Valle del cauca; ; ; ENTRE GORGONA Y PUERTO CABUYO; . Phenology: . Elevation: 1000(). Lat/Long: . ID	-0.618112	-72.395132
Ruellia uribei Leonard	J.L. Fernández Alonso O. Rangel G. Lozano & al. 7284 (MA). Date: 6/9/1987. Locality: Colombia; Valle del Cauca; ; ; Isla de Gorgona: trayecto paralelo a la costa. de	-0.618112	-72.395132
Ruellia chartacea (T. Anderson) Wassh.	J. Pipoly with (MO) Date: 11-11-1991. Province: Amazonas. County/Municipality: Leticia. . Locality: Parque Nacional Natural Amacayacu. Quebrada de Agua Pudre	-3.78	-70.25
Ruellia L.	Rudas Agustín; Prieto Adriana; Morán G.; Morán B. 2859 (FMB) Date: 8-13-1991. Province: Amazonas. County/Municipality: Leticia. . Locality: Centro Administrativ	-3.78333	-70.25
Ruellia L.	Rudas Agustín; Palacios P.; Duque S.; Águila F. del; Morán G.; Meléndez E. 2147 (FMB) Date: 6-19-1991. Province: Amazonas. County/Municipality: Tarapacá. . Loca	-3.05	-70.05
Ruellia L.	Rudas Agustín; Morán G.; Morán B. 2903 (FMB) Date: 8-15-1991. Province: Amazonas. County/Municipality: Leticia. . Locality: Centro administrativo Mata-matá (II	-3.78333	-70.25
Ruellia L.	Rudas A. G. Morán y B. Morán (FMB) Date: 8-15-1991. Province: Amazonas. County/Municipality: Leticia. . Locality: P.N.N. Amacayacu. centro administrativo Mat	-3.78333	-70.25
Ruellia L.	A. Rudas A. Prieto G. y B. Morán (MO) Date: 8-13-1991. Province: Amazonas. County/Municipality: . . Locality: Municipio de Leticia; Parque Nacional Natural Amac	-3.78	-70.25
Ruellia neoneesiana Wassh.	A. Rudas P. Palacios S. Duque F. del Águila Joaquín G. Morán y E. Meléndez (MO) Date: 6-19-1991. Province: Amazonas. County/Municipality: . . Locality: Municipi	-3.05	-70.05
Ruellia blechum L.	A. Gomez et al. (MO) Date: 12-30-1992. Province: Antioquia. County/Municipality: Arboletes. . Locality: Alrdedores del volcán. bs-T.. Habitat: Field notes: . . Lat: 8	8.88	-76.5
Ruellia L.	Vélez J.; Villa F.; Correa J. 5680 (FMB) Date: 10-9-2003. Province: Antioquia. County/Municipality: Támesis. . Locality: Vda. El Hacha. finca La Miranda. Habitat: Fiel	5.69619	-75.71758
Ruellia terminale (Nees) Wassh.	D. Cárdenas J.G. Ramirez & L.A. Osorno (MO) Date: 9-24-1990. Province: Antioquia. County/Municipality: San Luis. . Locality: Correg. El Prodigio. Camino de El Pro	6.1	-74.8
Ruellia tuberosa L.	Marrugo J. C. (COL) Date: 5-26-2001. Province: Antioquia. County/Municipality: . . Locality: Antioquia; Finca Cotové. Habitat: Field notes: . . Lat: 6.56667 Long: -75	6.56667	-75.8333
Ruellia tuberosa L.	Gutiérrez V. G. (COL) Date: 10-9-1947. Province: Antioquia. County/Municipality: RIONEGRO. . Locality: 2 Km al norte de Antioquia.. Habitat: Field notes: . . Lat: 6.	6.57556	-75.8256
Ruellia tubiflora Kunth	Romero C. R. (COL) Date: --. Province: Antioquia. County/Municipality: SAN LUIS. . Locality: Cocorna.cer.confluencia de los rios Cocorna y Magdalena.. Habitat: Fie	6.04073	-74.5853

Normal View Ready Sum=0

USE FORMULAS TO RECONFIGURE DATA FIELDS

```
='Worksheet1.tab'!C2&" "&'Worksheet1.tab'!  
D2&" ("&'Worksheet1.tab'!A2&"); "&"Date:  
"&TEXT('Worksheet1.tab'!E2, "dd-mmm-yy")&";  
Locality: "&'Worksheet1.tab'!P2&"; Ecological Info:  
"&'Worksheet1.tab'!Y2&"; Phenology:  
"&'Worksheet1.tab'!AA2&"; County:  
"&'Worksheet1.tab'!O2".
```

W. R. Carr (with Debbie Benesh) 20190 (TEX); Date: 27-Sep-01; On S side of Independence Creek, ca. 1.4-1.6 airmiles E of St. Rt. 349 bridge, on Cannon Ranch portion of Oasis Ranch Preserve (TNC). Oasis Ranch Quadrangle. Elev. 2000-2040 ft.; Ecological Info: Rare on partially shaded limestone outcrops on lower portion of N to NNW-facing cliff and stepped slope.; Phenology: fruiting=late; County: Terrell.

Web Based Clients

The following based web clients are available to allow you to georeference data directly from your web browser:



Standard Client

Simply type in your locality description and get back georeferenced results. Start here if you are new to GEOLocate.



Batch (File Based) Client

Allows you to upload a .csv file and batch process it. ([file formatting instructions](#))



Collaborative Georeferencing Client

Utilizes the collaborative georeferencing framework. Ideal for largescale multi-institution projects. ([https link](#))

Note: if you use the secure SSL (HTTPS) link, please make sure you browser is configured to allow mixed mixed content, or you may see a blank map. Here are SSL configuration instructions for various browsers: in [English](#) and in [Spanish](#) (special thanks to David Draper for the Spanish translation).

Embeddable client

- A streamlined web client for the purpose of embedding in other web applications.
[Sample link](#) of how an external application on another domain might use this client.
[Documentation link](#) on how to craft URLs for this client.

Other Clients:

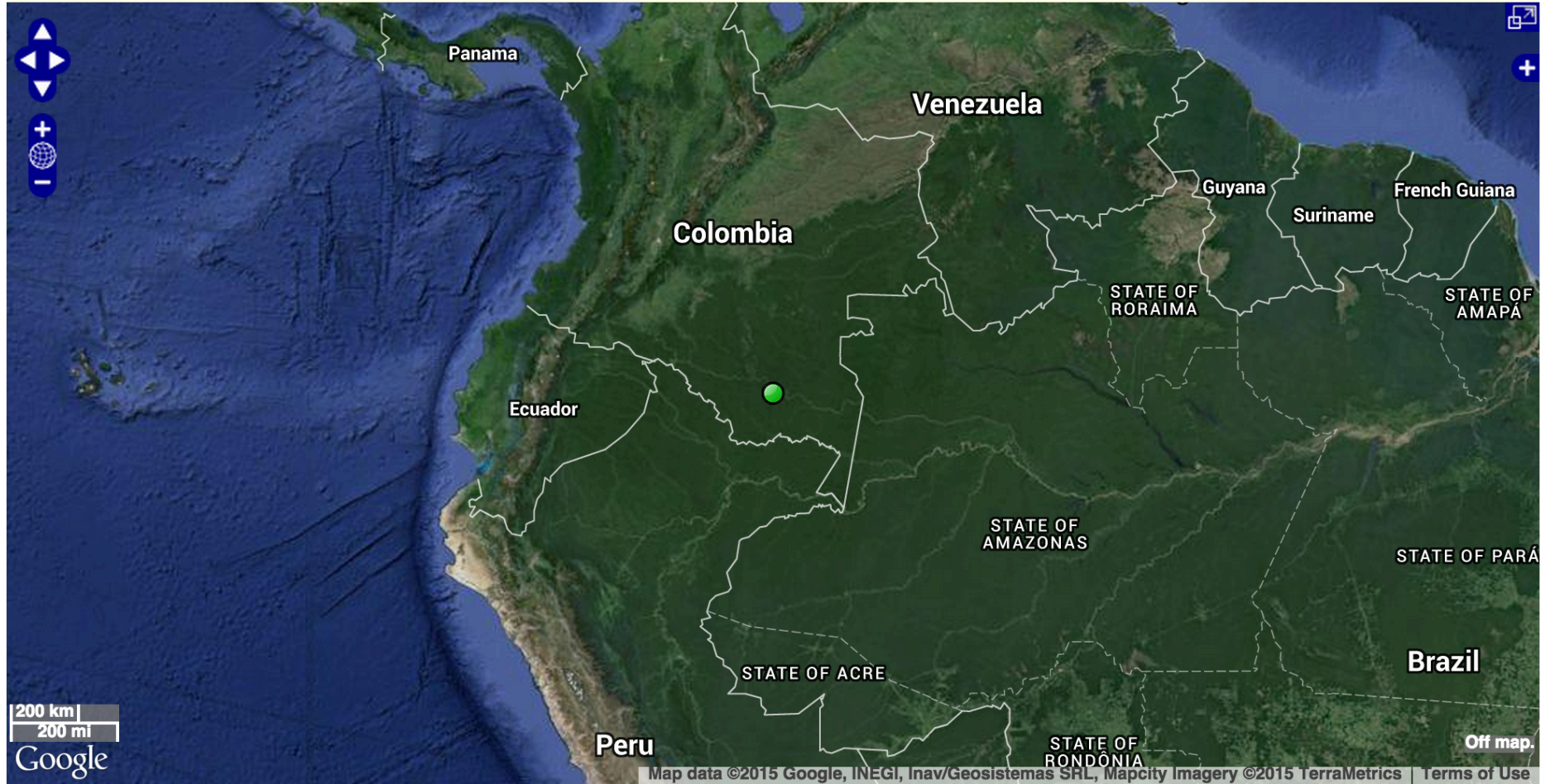
- [Arctos](#)
- [Specify](#)
- [Symbiota](#)
- [Tropicos](#)

Know of any other web based clients using GEOLocate? [Let us know](#) and we will be happy to list them.

GEOLocate Web Application



2 possible locations found.



Workbench

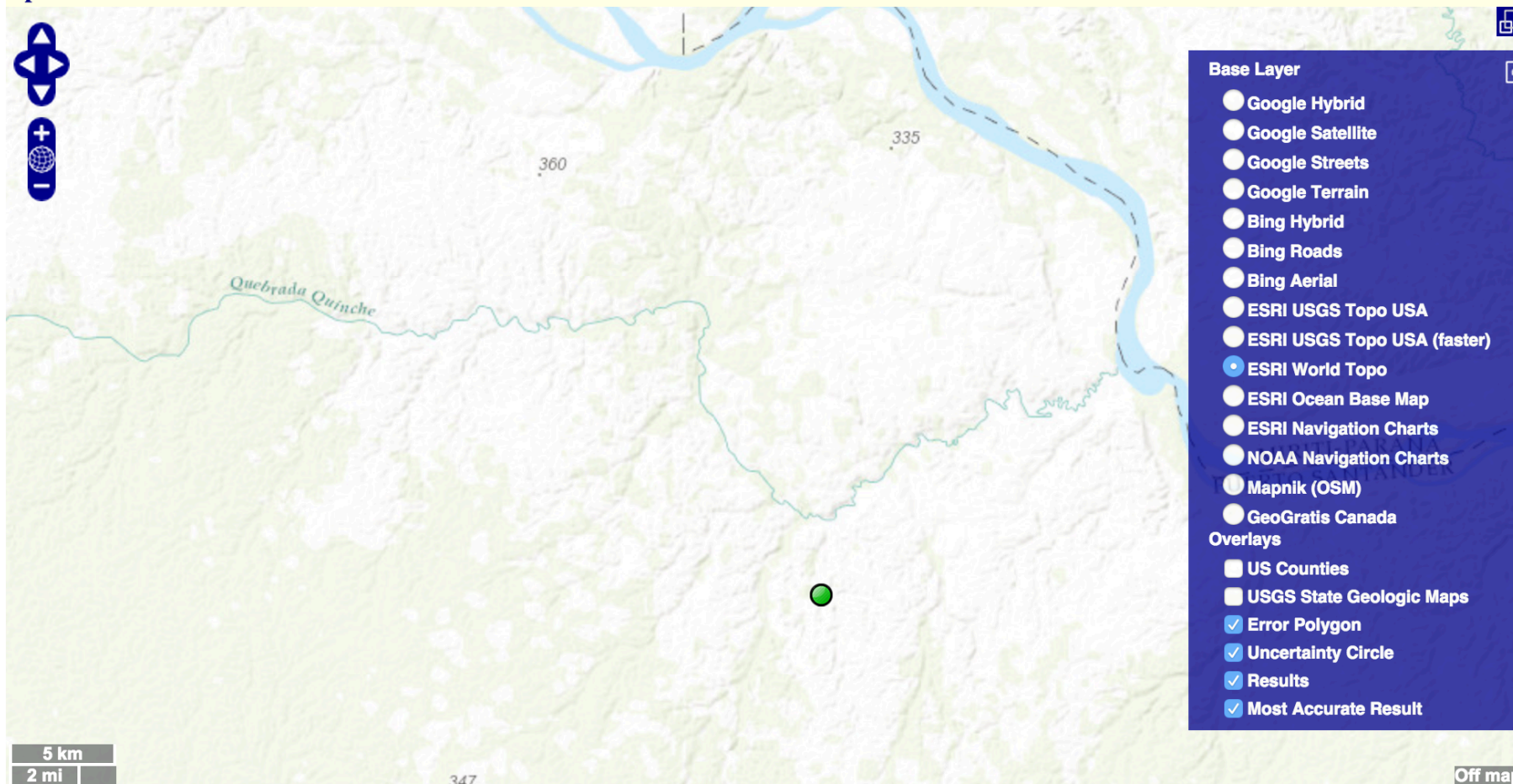
2 possible locations found

- ⊗ ● lat: -1.019722, lon: -71.938333, pattern: COMISARÍA DEL AMAZONAS, error polygon: Unavailable, uncertainty: Unavailable, precision: Low(52)
- ⊗ ● lat: -1.019722, lon: -71.938333, pattern: AMAZONAS, error polygon: Unavailable, uncertainty: Unavailable, precision: Low(38)

GEOLocate Web Application



2 possible locations found.



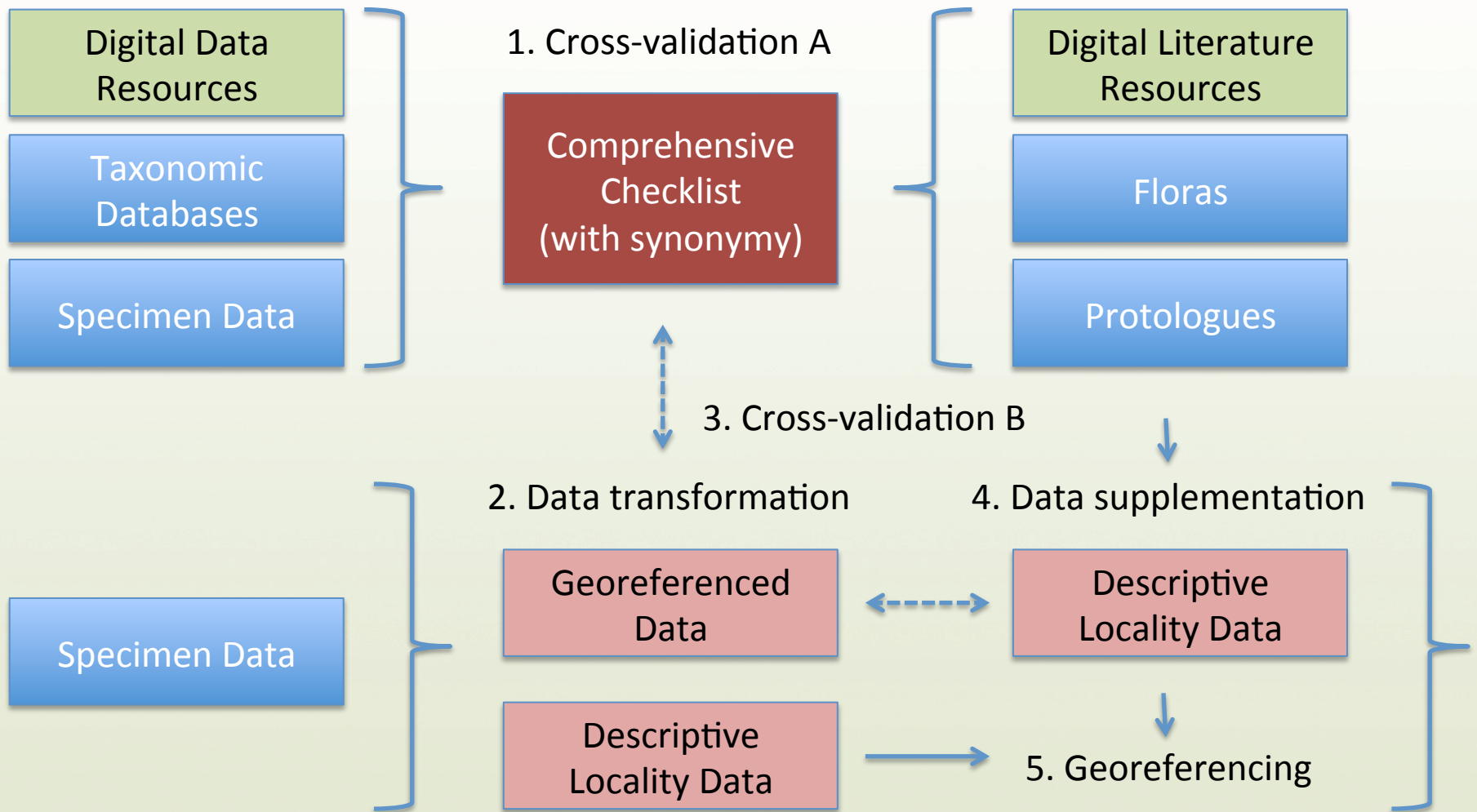
Workbench	2 possible locations found
⊗ ●	lat: -1.019722, lon: -71.938333, pattern: COMISARÍA DEL AMAZONAS, error polygon: Unavailable, uncertainty: Unavailable, precision: Low(52)
⊗ ●	lat: -1.019722, lon: -71.938333, pattern: AMAZONAS, error polygon: Unavailable, uncertainty: Unavailable, precision: Low(38)

SOME TIPS

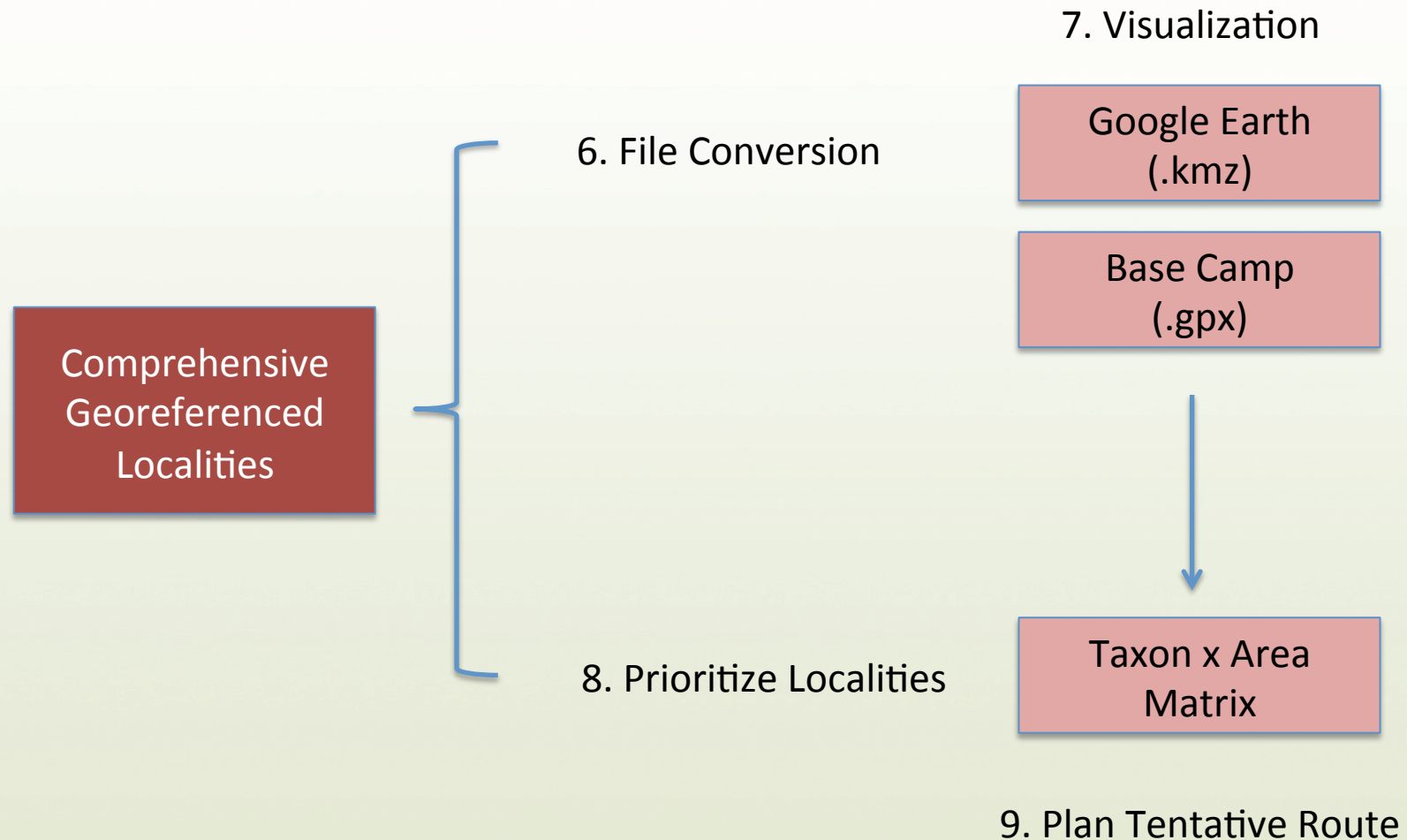
- ✦ Beware of UTF-8 accents!
- ✦ Verify localities for rare taxa; supplement as needed
- ✦ Keep track of data provenance as a field!
- ✦ Pay attention to georeferencing notes (keep your own!)
- ✦ Look at your waypoints with satellite imagery

Name	Description	Number	Elevation
1. Ruella vespertina Wash.	Curatosa & L. Wilson (MO) Date: 10/1/81. Locality Colombia: ; Between Villa Arzaga and Chipiroadó. El Tigre. ; Phytogeog. Elevation: 1000. Lat/Long: -3.21807 -70.311995		
2. Ruella rhynchosialis Lindau	A. Rada & Prieto G. y R. Moran (MO) Date: 8/31/99. Locality Colombia, Antioquia, Leticia. Parque Nacional Natural Amaluza. Centro Administrativo Mat. -3.78333 -70.25		
3. Ruella termale (Nees) Wash.	E. Romero y otros (MO) Date: 1/20/1986. Locality Colombia, Antioquia, ; Sector Zona Chipiroadó Mágico, of Barro. Calle Dorada de La Piedad Mágico. -3.26665 -70.38462		
4. Ruella lechospoda Leonard	Ulbrich L. (DO) Date: 1/7/1912. Locality Colombia, Antioquia, MIEDELLIN. CAMBANA AL MAR. ; Phytogeog. Elevation: 2000. Lat/Long: -4.20797 -76.49427		
5. Ruella termale (Nees) Wash.	R.S. McNeill & Cuatrecasas (MO) Date: 1/1/1941. Locality Colombia, Antioquia, ; Base of the Rio Cauca at Puerto Valdivia. ; Phytogeog. Elevation: 2000. -7.28778 -75.94454		
6. Ruella hirsutata Kuntz	Duguet A. (DC) Date: 1/17/1944. Locality Colombia, Atlántico, PUERTO COLOMBIA. PUERTO TUMBES COLOMBIA ANDAS CERCA DE LA PLAYA DE MINAMARA. ; Phytogeog. Elevation: 1000. -7.47886 -76.16204		
7. Ruella paniculata L.	H. Cuatrecasas (MO) Date: 1/1/1941. Locality Colombia, Boyacá, Cerros de Bogotá. Vía Cerros de Bogotá. ; Phytogeog. Elevation: 111. Lat/Long: -4.585045 74.79912		
8. Ruella termale (Nees) Wash.	Cróquer G. 4052 (CO) Date: 10/20/2010. Locality Colombia, Cauca, Veniáranas, veniáranas Estación. Finca Brasil. ; Phytogeog. Elevation: 11. Lat/Long: -4.397868 -74.827313		
9. Ruella coccinea Leonard	A. Gutery & M. Fisher (MO) Date: 1987/19. Locality Colombia, Cauca, ; North ridge of Rio de Bona, prominent wet forest. EW. ; Phytogeog. -4.42251 -69.97577		
10. Ruella nudiflora Stegelm. & Gray Urb.	A. Gutery (MO) Date: 1/12/1972. Locality Colombia, Cauca, ; Salsilla, edge of Rio Abasco. ; Phytogeog. Elevation: 0. Lat/Long: -4.489781 -80.43268		
11. Ruella termale (Nees) Wash.	Thomas B. Croat (MO) Date: 1/22/1995. Locality Colombia, Cauca, ; Along road between Fusilla (Marshallia) and Serrita (Cruza), along Cuatrecasas. -3.34 -78.21		
12. Ruella thurstonii (Nees) Wash.	Evans & R. (CO) Date: 4/2/1942. Locality Colombia, Putumayo, ; RIO SAN MIGUEL O SUCUMBIOS. CONGOLO Y LOS ALBUDEDES. EN FINITE LA GUAYAMA. -4.10006 -69.66449		
13. Ruella thurstonii (Nees) Wash.	J.A. Sauer 1495 (US) Date: 1/16/1945. Locality Colombia, Putumayo, ; Between San Pedro & Sapey below Leticia. ; Phytogeog. Elevation: 11. Lat/Long: -3.78778 -75.88444		
14. Ruella spaciola Leonard	O. L. Haught (NY) Date: 6/7/1935. Locality Colombia, Santander, ; Vicinity of Puerto Berio, between Carapé and Magdalena Rivers. ; Phytogeog. Elevation: 40. -3.76089 -70.37464		
15. Ruella tetragyncha Lindau	L.P. Riley & Robert C. Smith 1249 (MA) Date: 1/12/1927. Locality Colombia, Cauca, ; Vicinity of El Bolson. ; Phytogeog. Elevation: 1000. Lat/Long: -4.21147 -76.30556		
16. Ruella malacopetala (Nees) Small non Greenm.	Wood J.R. (F&M) Date: 1/12/1983. Locality Colombia, Tolima, ; Guadalupe between Inga and Espinal. ; Phytogeog. Elevation: 5000. Lat/Long: -3.524073 -76.198249		
17. Ruella malacopetala (Nees) Small non Greenm.	Cuatrecasas J. (CO) Date: 10/1/1941. Locality Colombia, Tolima, ; FOREST GORGONIA PUERTO CALONDO. ; Phytogeog. Elevation: 1000. Lat/Long: -4.618112 -72.95132		
18. Ruella urticae Leonard	J.J. Fernández Alonso O. Rangel G. Lozano B. & J. 7288 (MA) Date: 8/19/97. Locality Colombia, Valle del Cauca, ; Ica de Gorgonia travesía paravista a la zona. -4.618112 -72.95132		
19. Ruella thurstonii (Nees) Wash.	J. Figal with (MO) Date: 11-11-1983. Province Amazonas. County/Municipality Leticia. Locality Parque Nacional Natural Amaluza. Cuatrecasas de Agua Fuerte. -3.78 -70.25		
20. Ruella thurstonii (Nees) Wash.	Rada Aguilón, Prieto Adriana, Moran G., Moran B. 2959 (F&M) Date: 8-13-1991. Province Amazonas. County/Municipality Leticia. Locality Centro Administrativo. -3.78333 -70.25		
21. Ruella L.	Rada Aguilón, Prieto A., Quijón E., Aguilón E. del, Morán G., Méndez I., 2147 (F&M) Date: 8-13-1991. Province Amazonas. County/Municipality Terapeza. Leticia. -3.78 -70.25		
22. Ruella L.	Rada Aguilón, Morán G., Morán B. 2969 (F&M) Date: 8-13-1991. Province Amazonas. County/Municipality Leticia. Locality Centro Administrativo. -3.78333 -70.25		
23. Ruella L.	A. Rada & Prieto G. y R. Moran (MO) Date: 8-13-1991. Province Amazonas. County/Municipality Leticia. Locality Centro Administrativo. -3.78 -70.25		
24. Ruella L.	Rada A. G. Morán B. Moran. (F&M) Date: 8-13-1991. Province Amazonas. County/Municipality Leticia. Locality P.A. Amaluza, zona administrativa Mat. -3.78333 -70.25		
25. Ruella L.	A. Rada & Prieto G. y R. Moran (MO) Date: 8-13-1991. Province Amazonas. County/Municipality Leticia. Locality Parque Nacional Natural Amaluza. -3.78 -70.25		
26. Ruella L.	A. Rada & Prieto G. y Quijón E., Aguilón E. del, Morán G., Méndez I., 2147 (F&M) Date: 8-13-1991. Province Amazonas. County/Municipality Terapeza. Leticia. -3.78 -70.25		
27. Ruella L.	A. Goretz et al. (MO) Date: 12-30-1992. Province Antioquia. County/Municipality Andesima. Locality Alto de los de Uchín. In: T. Haber, Field notes. -Lat. E. -8.488 -76.5		
28. Ruella L.	Vilce L. Valls E. (CO) Date: 1/6/1983. Province Antioquia. County/Municipality Támesis. Locality Vía El Suroeste. Finca Suroeste. -Lat. E. -5.6015 -76.17196		
29. Ruella termale (Nees) Wash.	D. Calvente J.G. Moreno & L.A. Ospina (MO) Date: 8-24-1990. Province Antioquia. County/Municipality San Luis. Locality Cerro El Pitalado. Camino de El Pitalado. -Lat. E. -6.1 -74.8		
30. Ruella tuberosa L.	Marsigli M. C. (CO) Date: 3-26-2003. Province Antioquia. County/Municipality Támesis. Locality Vía El Suroeste. Finca Suroeste. -Lat. E. -5.6015 -76.17196		
31. Ruella tuberosa L.	Guimera V. G. (CO) Date: 10-29-1947. Province Antioquia. County/Municipality RENEGLAD. Locality 2 Km al norte de Antioquia. Habit. Field notes. -Lat. E. -6.7556 -76.8216		
32. Ruella tuberosa L.	Romero M. C. (CO) Date: - Province Antioquia. County/Municipality SAN LUIS. Locality Comunidad de No nos Goerny y Magdalena. Habit. Fe. -6.0075 -75.983		

GENERAL WORKFLOW



GENERAL WORKFLOW



GBIF_Geolocate_Colombia3.csv

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Calibri (Body) 12

Normal

Name	Description	Latitude	Longitude
Ruellia cuatrecasii Wassh.	J. Cuatrecasas & L. Willard (MO). Date: 10/1/1961. Locality: Colombia; ; ; Between Villa Arteaga and Chigorodó. El Tigre; . Phenology: . Elevation: 100(). Lat/Lon	-3.712807	-70.317995
Ruellia thyrsoctachya Lindau	A. Rudas A. Prieto G. y B. Morán (MO). Date: 8/13/1991. Locality: Colombia; Amazonas; Leticia; ; Parque Nacional Natural Amacayacu. Centro Administrativo Mat	-3.78333	-70.25
Ruellia terminale (Nees) Wassh.	E. Renteria y otros (MO). Date: 3/28/1986. Locality: Colombia; Antioquia; ; ; Sector Urabá-Chigorodó-Malagón. el Blanco. Caño despues de la Puerca-Malagón; ; .	-3.786605	-70.363662
Ruellia ischnopoda Leonard	Uribe U. L. (COL). Date: 1/19/1952. Locality: Colombia; Antioquia; MEDELLÍN; ; CARRETERA AL MAR; . Phenology: . Elevation: 2500(). Lat/Long: . ID: 322156806. S	8.097927	-76.694292
Ruellia terminale (Nees) Wassh.	R.D. Metcalf & J. Cuatrecasas (MO). Date: 2/17/1942. Locality: Colombia; Antioquia; ; ; Banks of the Río Cauca at Puerto Valdivia; . Phenology: . Elevation: 250().	7.287778	-75.394444
Ruellia inundata Kunth	Dugand A. (COL). Date: 12/15/1944. Locality: Colombia; Atlántico; PUERTO COLOMBIA; ; FRUTICETUMEN COLINAS ARIDAS CERCA DE LA PLAYA DE MIRAMAR; . F	7.478806	-76.536204
Ruellia paniculata L.	H. Cuadros (MO). Date: 1/31/1987. Locality: Colombia; Bolívar; Carmen de Bolívar; ; Vía Carmen-Zambrano; . Phenology: . Elevation: (). Lat/Long: . ID: 68580615	10.982812	-74.799313
Ruellia terminale (Nees) Wassh.	Cárdenas D. 40502 (COAH). Date: 10/20/2010. Locality: Colombia; Caquetá; Valparaiso; ; vereda la Estrella. finca Brasil; . Phenology: . Elevation: (). Lat/Long: . ID:	4.397808	-74.827313
Ruellia cooperi Leonard	A. Gentry & M. Fallen (MO). Date: 8/8/1976. Locality: Colombia; Chocó; ; ; North ridge of Alto de Buey. premontane wet forest. ESW of El Valle; . ; . El	-1.412651	-69.975707
Ruellia nudiflora (Engelm. & A. Gray) Urb.	Al Gentry (MO). Date: 3/21/1972. Locality: Colombia; Chocó; ; ; Sautata. edge of Río Atrato; . Phenology: . Elevation: (). Lat/Long: . ID: 146357637. Source: GBIF S	-3.214766	-70.31426
Ruellia terminale (Nees) Wassh.	Thomas B. Croat (MO). Date: 2/22/1990. Locality: Colombia; Chocó; ; ; Along road between Pueblo Rico (Risaralda) and Istmina (Chocó). along Quebrada Antón. 1	5.34	-76.23
Ruellia chartacea (T. Anderson) Wassh.	Evans S. R. (COL). Date: 4/2/1942. Locality: Colombia; Putumayo; ; ; RIO SAN MIGUEL O SUCUMBIDOS. CONEJO Y LOS ALREDEDORES. EN FRENTE DE LA QUEBRADA	-4.145006	-69.956249
Ruellia tubiflora var. parviflora Leonard	J. A. Ewan 16785 (US). Date: 1/16/1945. Locality: Colombia; Putumayo; ; ; Between San Pedro & Lajoya. below Umbria; . Phenology: . Elevation: (). Lat/Long: . ID	7.287778	-75.394444
Ruellia aquatica Leonard	O. L. Haught (NY). Date: 6/9/1935. Locality: Colombia; Santander; ; ; Vicinity of Puerto Berrio. between Carare and Magdalens Rivers; . Phenology: . Elevation: 40	-3.708069	-70.337494
Ruellia tetrastrichantha Lindau	E.P. Killip & Albert C. Smith 19359 (MA). Date: 2/16/1927. Locality: Colombia; Sas; ; ; Vicinity of El Roble; . Phenology: . Elevation: 1500(). Lat/Long: . ID: 2171747	-3.805	-70.305556
Ruellia malacosperma sensu Small non Greenm.	Wood JR.I. (FMB). Date: 1/1/1983. Locality: Colombia; Tolimaima; ; ; Gualanday between Ibagué and Espinal; . Phenology: . Elevation: 500(). Lat/Long: . ID: 3221	7.524073	-76.598269
Ruellia malacosperma sensu Small non Greenm.	Cuatrecasas J. (COL). Date: 6/4/1943. Locality: Colombia; Valle del cauca; ; ; ENTRE GORGONA Y PUERTO CABUYO; . Phenology: . Elevation: 1000(). Lat/Long: . ID	-0.618112	-72.395132
Ruellia uribei Leonard	J.L. Fernández Alonso O. Rangel G. Lozano & al. 7284 (MA). Date: 6/9/1987. Locality: Colombia; Valle del Cauca; ; ; Isla de Gorgona: trayecto paralelo a la costa. de	-0.618112	-72.395132
Ruellia chartacea (T. Anderson) Wassh.	J. Pipoly with (MO) Date: 11-11-1991. Province: Amazonas. County/Municipality: Leticia. . Locality: Parque Nacional Natural Amacayacu. Quebrada de Agua Pudre	-3.78	-70.25
Ruellia L.	Rudas Agustín; Prieto Adriana; Morán G.; Morán B. 2859 (FMB) Date: 8-13-1991. Province: Amazonas. County/Municipality: Leticia. . Locality: Centro Administrativ	-3.78333	-70.25
Ruellia L.	Rudas Agustín; Palacios P.; Duque S.; Águila F. del; Morán G.; Meléndez E. 2147 (FMB) Date: 6-19-1991. Province: Amazonas. County/Municipality: Tarapacá. . Loca	-3.05	-70.05
Ruellia L.	Rudas Agustín; Morán G.; Morán B. 2903 (FMB) Date: 8-15-1991. Province: Amazonas. County/Municipality: Leticia. . Locality: Centro administrativo Mata-matá (II	-3.78333	-70.25
Ruellia L.	Rudas A. G. Morán y B. Morán (FMB) Date: 8-15-1991. Province: Amazonas. County/Municipality: Leticia. . Locality: P.N.N. Amacayacu. centro administrativo Mat	-3.78333	-70.25
Ruellia L.	A. Rudas A. Prieto G. y B. Morán (MO) Date: 8-13-1991. Province: Amazonas. County/Municipality: . . Locality: Municipio de Leticia; Parque Nacional Natural Amac	-3.78	-70.25
Ruellia neoneesiana Wassh.	A. Rudas P. Palacios S. Duque F. del Aguila Joaquin G. Morán y E. Meléndez (MO) Date: 6-19-1991. Province: Amazonas. County/Municipality: . . Locality: Municipi	-3.05	-70.05
Ruellia blechum L.	A. Gomez et al. (MO) Date: 12-30-1992. Province: Antioquia. County/Municipality: Arboletes. . Locality: Alrdedores del volcán. bs-T.. Habitat: Field notes: . . Lat: 8	8.88	-76.5
Ruellia L.	Vélez J.; Villa F.; Correa J. 5680 (FMB) Date: 10-9-2003. Province: Antioquia. County/Municipality: Támesis. . Locality: Vda. El Hacha. finca La Miranda. Habitat: Fiel	5.69619	-75.71758
Ruellia terminale (Nees) Wassh.	D. Cárdenas J.G. Ramirez & L.A. Osorno (MO) Date: 9-24-1990. Province: Antioquia. County/Municipality: San Luis. . Locality: Correg. El Prodigio. Camino de El Pro	6.1	-74.8
Ruellia tuberosa L.	Marrugo J. C. (COL) Date: 5-26-2001. Province: Antioquia. County/Municipality: . . Locality: Antioquia; Finca Cotové. Habitat: Field notes: . . Lat: 6.56667 Long: -75	6.56667	-75.8333
Ruellia tuberosa L.	Gutiérrez V. G. (COL) Date: 10-9-1947. Province: Antioquia. County/Municipality: RIONEGRO. . Locality: 2 Km al norte de Antioquia.. Habitat: Field notes: . . Lat: 6.	6.57556	-75.8256
Ruellia tubiflora Kunth	Romero C. R. (COL) Date: --. Province: Antioquia. County/Municipality: SAN LUIS. . Locality: Cocorna.cer.confluencia de los rios Cocorna y Magdalena.. Habitat: Fie	6.04073	-74.5853

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GPS Visualizer is based in Portland, Oregon, and has been on the Web since October 2002.

GPS Visualizer

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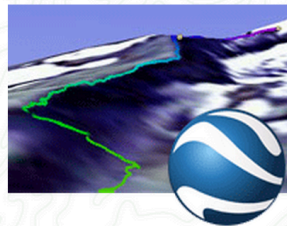
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Convert your GPS data for use in Google Earth

This form will import your GPS data file (e.g., GPX), or plain-text data (tab-delimited or CSV), and create a KML file that you can view in the Google Earth application or import into Google's "My Maps"/"My Places" system.

(You might also be interested in the [Google Maps](#) input form, which can create an interactive map that can be viewed in almost any Web browser; you can even use KML/KMZ files as input. For SVG or JPEG maps, use the ["classic" map form](#). To resize and/or colorize Google Earth markers based on a particular field, use the [data form](#).)

If you want to add altitude information to your KML file, enable the option labeled ["Add DEM elevation data."](#) GPS Visualizer's server hosts a 90GB database of digital elevation data that can be integrated into your data.

General map parameters

show advanced options [+]

Output file type: Units:

Google Earth doc name:

Add DEM elevation data:

Time offset: hrs Add time stamps, if possible:

Track options

show advanced options [+]

Track opacity: Line width:

Colorize by: Default color:

Altitude mode:

Draw a shadow: Tickmark interval:

Trackpoint distance threshold: Max. points per track:

Draw as waypoints:

Waypoint options

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Waypoint labels:

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Altitude mode:

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File #1 No file chosen

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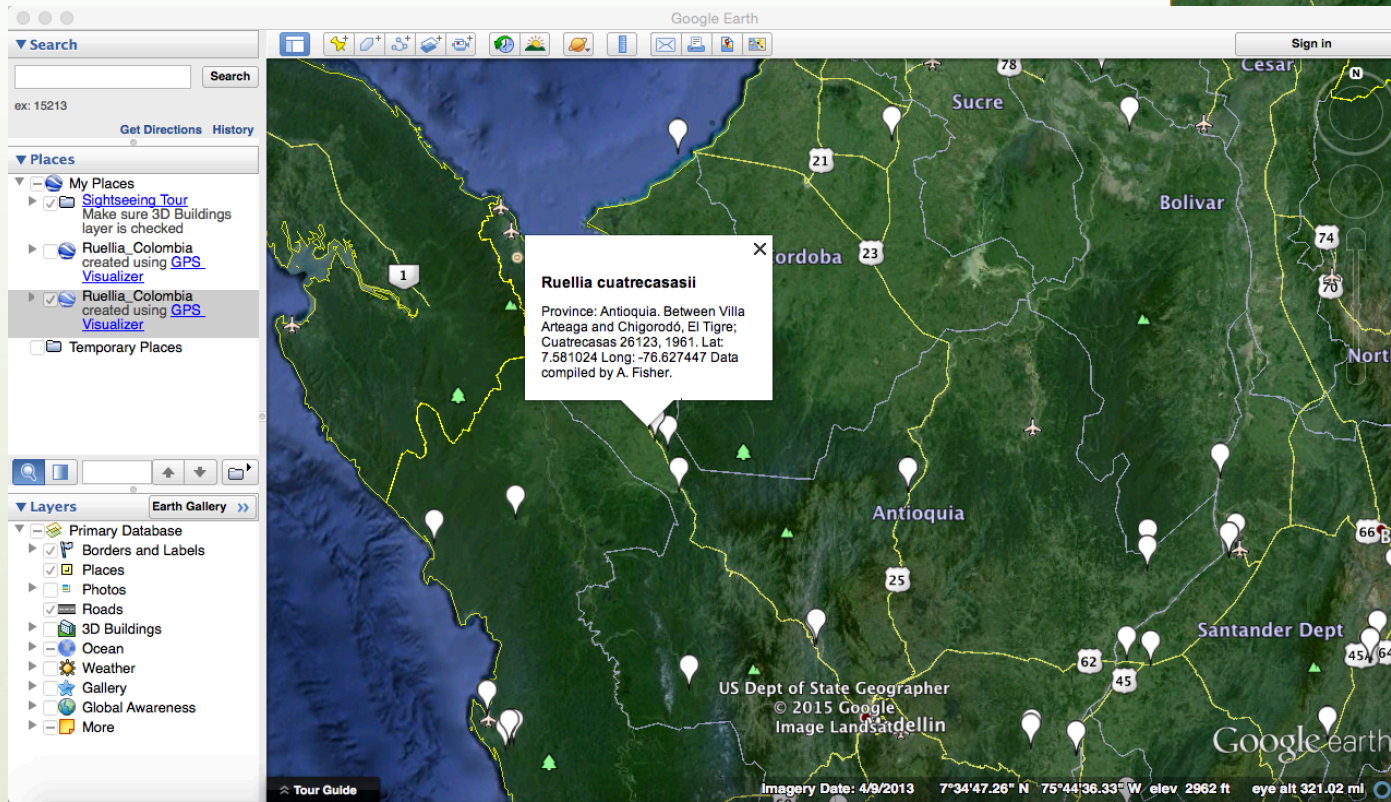
Or paste your data here: ?

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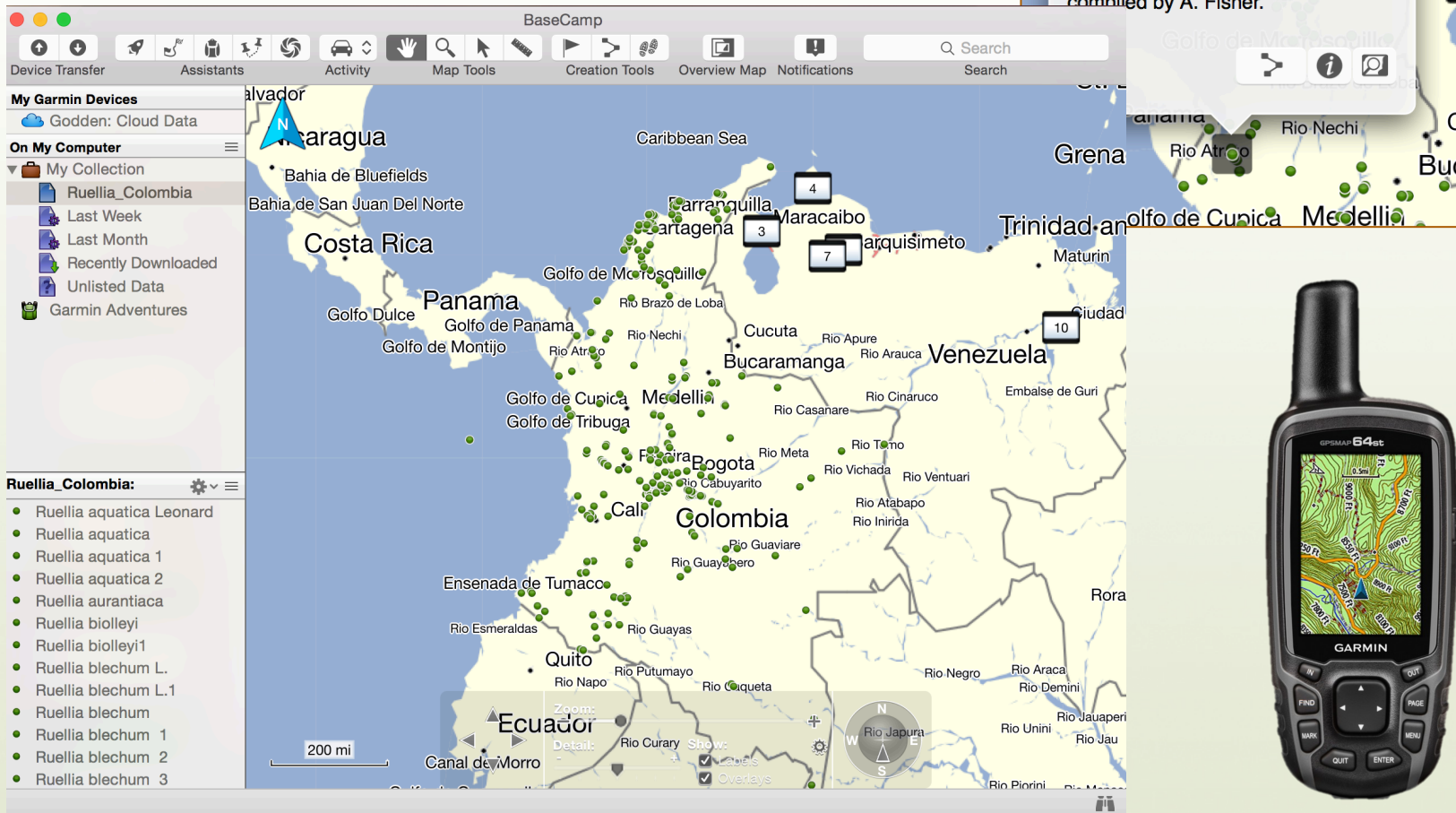
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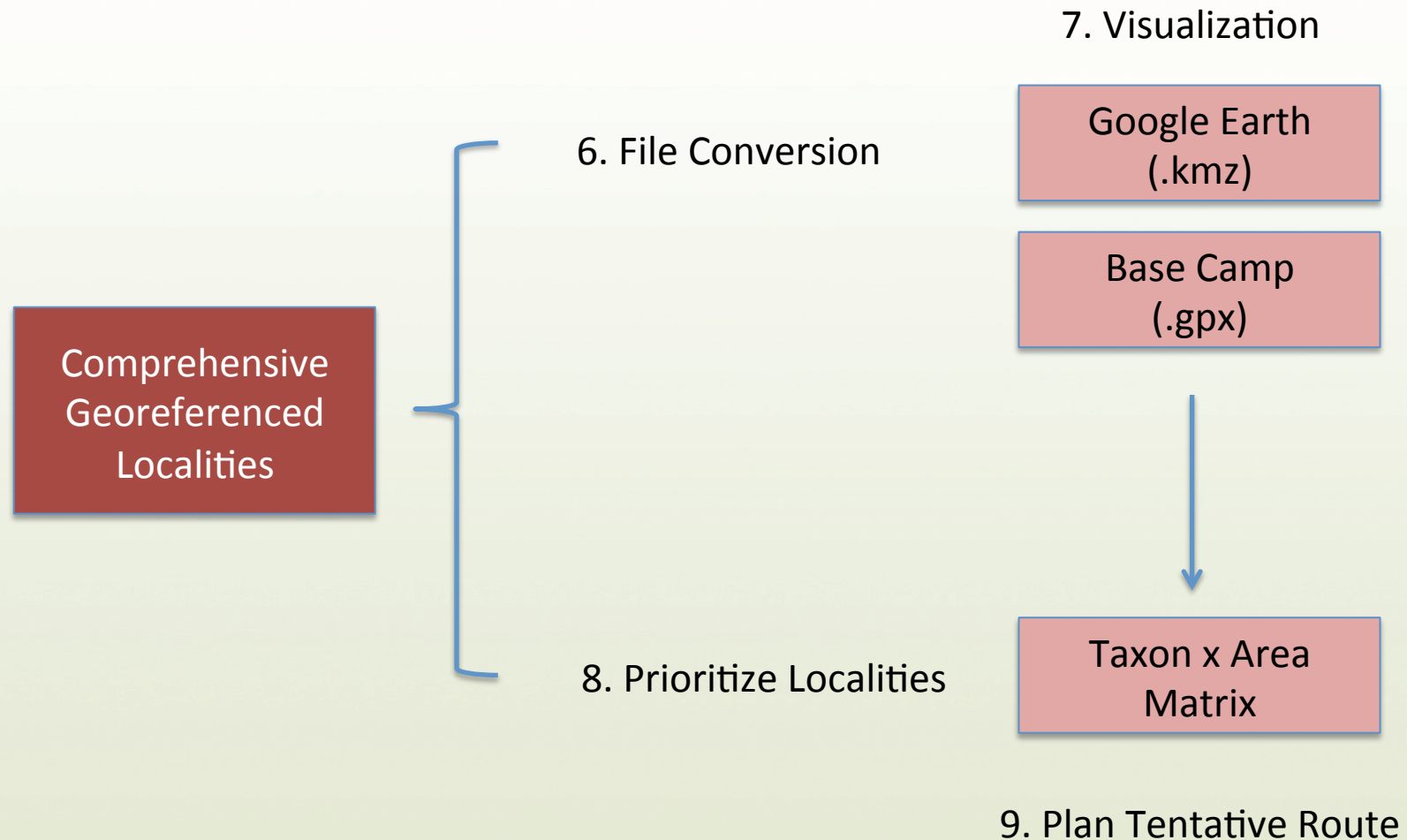
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VISUALIZING DATA



GENERAL WORKFLOW



Colombia_all_localities.xlsx

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B1 scientificName

	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
1	scientificName	recordedBy	recordNumber	institutionCode	month	day	year	country	stateProvince	county	municipality	locality	habitat	fieldNotes	phenology
2	Ruellia chartacea (T. Anderson) Wassh.	J. Pipoly with		MO		11	11	1991	Colombia	Amazonas	Leticia	Parque Nacional Natural Amacayacu. Quebrada de Agua Pu			
3	Ruellia L.	Rudas Agustín	2859	FMB		8	13	1991	Colombia	Amazonas	Leticia	Centro Administrativo Matamata (INDEREN flor			
4	Ruellia L.	Rudas Agustín	2147	FMB		6	19	1991	Colombia	Amazonas	Tarapacá	Río Cotohé. margen derecha del río en los fruto			
5	Ruellia L.	Rudas Agustín	2903	FMB		8	15	1991	Colombia	Amazonas	Leticia	Centro administrativo Mata-matá (INDEREI flor			
6	Ruellia L.	Rudas A. G. Morán y B. Mor		FMB		8	15	1991	Colombia	Amazonas	Leticia	P.N.N. Amacayacu. centro administrativo Mata-matá (INDER			
7	Ruellia L.	A. Rudas A. Prieto G. y B. M		MO		8	13	1991	Colombia	Amazonas		Municipio de Leticia; Parque Nacional Natural Amacayacu.			
8	Ruellia neoneesiana Wassh.	A. Rudas P. Palacios S. Duq		MO		6	19	1991	Colombia	Amazonas		Municipio de Leticia; Corregimiento de Tarapacá; Parque Na			
9	Ruellia blechum L.	A. Gomez et al.		MO		12	30	1992	Colombia	Antioquia	Arboletes	Aldedores del volcán. bs-T.			
10	Ruellia L.	Vélez J.; Villa	5680	FMB		10	9	2003	Colombia	Antioquia	Támesis	Vda. El Hacha. finca La Miranda		flor	
11	Ruellia terminale (Nees) Wassh.	D. Cárdenas J.G. Ramirez & M		MO		9	24	1990	Colombia	Antioquia	San Luis	Correg. El Prodigio. Camino de El Prodigio a la Hacienda El			
12	Ruellia tuberosa L.	Marrugo J. C.		COL		5	26	2001	Colombia	Antioquia		Antioquia; Finca Cotové			
13	Ruellia tuberosa L.	Gutiérrez V. G.		COL		10	9	1947	Colombia	Antioquia	RIONEGRO	2 Km al norte de Antioquia.			
14	Ruellia tubiflora Kunth	Romero C. R.		COL					Colombia	Antioquia	SAN LUIS	Cocorna.cer.confluencia de los ríos Cocorna y Magdalena.			
15	Ruellia geminiflora Kunth	González Mar	1349	FMB		3	15	2013	Colombia	Arauca	Araucuita	Banco Sabana		esteril	
16	Ruellia tuberosa L.	Hermano Elias		F					Colombia	Atlántico					
17	Ruellia ciliatiflora Hook.	O. Marulanda et al.		MO		2	18	1989	Colombia	Bolívar	San Martín de Loba	Pueblo Nuevo. alrededores de la Ciénaga el Totumo. camin			
18	Ruellia L.	James L. Zarocchi & Hermes		MO		8	8	1985	Colombia	Bolívar		Mun. de San Jacinto; 8 km from San Jacinto on road to Cerr			
19	Ruellia obtusa Nees	James L. Zarocchi & Hermes		MO		8	6	1985	Colombia	Bolívar		Mun. de Cartagena; ca. 6 km SW of crossing of Canal del Di			
20	Ruellia tuberosa L.	Ricardo Rueda y Hermes Cu		MO		5	20	1992	Colombia	Bolívar		Municipio San Juan Nepomuceno. Loma de los Colorados.			
21	Ruellia tuberosa L.	Hermes Cuadros V.		MO		9	21	1989	Colombia	Bolívar	Cartagena	Isla Baru.			
22	Ruellia tuberosa L.	H. Cuadros		MO		9	6	1989	Colombia	Bolívar	Cartagena	Bolívar. Mpio. Cartagena. Isla de Tierra Bomba.			
23	Ruellia inundata Kunth	Mendoza Hun	1555	FMB		6	1	1985	Colombia	Bolívar	Zambrano	Monterrey Forestal S.A		flor	
24	Ruellia inundata Kunth	H. Mendoza	1555	FMB					Colombia	Bolívar	Zambrano	Monterrey For bosque seco tropical			
25	Ruellia L.	Mendoza Hun	1968	FMB		9	1	1996	Colombia	Bolívar	Zambrano	Monterrey Forestal S.A			
26	Ruellia L.	Mendoza Hun	1818	FMB		9	1	1996	Colombia	Bolívar	Cartagena	Isla de Tierra Bomba			
27	Ruellia macrophylla Willd. ex Nees	Mendoza Hun	1930	FMB		9	1	1996	Colombia	Bolívar	Cartagena	Isla de Tierra Bomba		flor	
28	Ruellia macrophylla Willd. ex Nees	H. Mendoza	1930	FMB					Colombia	Bolívar	Cartagena de Indias	Isla de Tierra bosque seco tropical			
29	Ruellia macrophylla Willd. ex Nees	E. Forero		F		4	22	1966	Colombia	Bolívar					
30	Ruellia macrophylla Willd. ex Nees	Wood John	4470	FMB		6	25	1984	Colombia	Boyacá	Soatá	Bajada de Soatá al río Chicamocha		flor	
31	Ruellia tuberosa L.	Wood J. R. I.		COL					Colombia	Boyacá	SOATA	Soata. rio Chicamocha. Alt. 1500 m..			
32	Ruellia tuberosa L.	Wood J. R. I.		COL					Colombia	Boyacá	SOATA	Soata. rio Chicamocha. Alt. 1500 m..			
33	Ruellia viridiflora Leonard	A. Lawrence	491	US		9	30	1932	Colombia	Boyacá		Region of Mt. Chapon. 130 mi NW of Bogota. Extreme weste			
34	Ruellia L.	G. Davidse A. Gentry & F. Li		MO		1	11	1974	Colombia	Caqueta		10 km SW of San José del Frague (SW of Florencia); tall rain			
35	Ruellia rusbyi Leonard	McDade L.; S	950	FMB		1	19	1986	Colombia	Cauca		17 km south of Rosas on road between pas for y fruto			
36	Ruellia blechum L.	J. Espina F. Garcia & S. Pinc		MO		4	16	1989	Colombia	Chocó	Bahia Solano	Corregimiento El Valle. trocha El Valle-Boro Boro.			
37	Ruellia chariessa Leonard	Luis E. Forero		MO		7	3	1976	Colombia	Chocó	Acandí	Corregimiento de Unguía; Reserva Indígena Cuna de Arquía			
38	Ruellia colombiana Leonard	Franco R. P.		COL					Colombia	Chocó	NOVITA	Margen izquierda del río Ingara.			
39	Ruellia colombiana Leonard	Forero G. E.		COL					Colombia	Chocó		Carretera entre San José del Palmar-Novita.			
40	Ruellia L.	A. Gentry & M. Fallen		MO		8	11	1976	Colombia	Chocó		Second growth and forest edge behind Bahia Solano. tropica			

Normal View Ready Sum=0

A	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB	AC	AD	AE	AF	AG	AH	AI	AJ					
Taxon/Depto.	ANT	ARA	ATL	BOL	BOY	CAL	CAO	CAS	CAU	CES	CHO	COR	CUN	GUA	GUE	HUI	LAG	MAG	MET	NAR	NSA	PUT	OUT	RTS	SAP	SAN	SUC	TOL	VAL	VAU	VVD	DEPT WITH TAXON							
8. <i>R. chariessa</i> Leonard																																			2				
9. <i>R. chartacea</i> (T. Anderson) Washh.																																				2			
10. <i>R. ciliatiflora</i> Hook. (syn. <i>R. lorentziana</i> Griseb.)																																				2			
11. <i>R. colombiana</i> Leonard																																				5			
12. <i>R. colorata</i> Bail. = <i>R. chartacea</i> (T. Anderson) Washh.																																				1			
13. <i>R. cooperi</i> Leonard = <i>R. biolleyi</i> Lindau																																				1			
14. <i>R. cuatrecasasi</i> Washh.																																					1		
15. <i>R. cumanaensis</i> Lindau																																					0	No locality data available yet.	
16. <i>R. fulvida</i> Andrews																																					1		
17. <i>R. fulvida</i> var. <i>angustissima</i> (Hochr.) Leonard																																					1		
18. <i>R. geminiflora</i> Kunth																																					9		
19. <i>R. geminiflora</i> var. <i>angustifolia</i> (Nees) Griseb.																																					3		
20. <i>R. glischocaulis</i> Lindau = <i>R. quadrifaria</i> (Nees) Lindau																																					2		
21. <i>R. gorgonensis</i> Leonard																																					1	SPECIMEN: WEST OF CAUCA	
22. <i>R. grantii</i> Leonard																																					2		
23. <i>R. grisea</i> Leonard																																						1	
24. <i>R. haughtii</i> (Leonard) E. A. Tripp (syn. <i>Blechnum haughtii</i>)																																					1		
25. <i>R. humboldtiana</i> Lindau																																					8		
26. <i>R. inundata</i> Kunth																																					4		
27. <i>R. ischnopoda</i> Leonard																																					6		
28. <i>R. lasiostachya</i> Leonard																																					2		
29. <i>R. lehmanniana</i> Lindau																																					0	No locality data available yet.	
30. <i>R. leucantha</i> Nees = <i>R. tubiflora</i> Kunth (sensu Wassenhausen)																																					0		
31. <i>R. longifilamentosa</i> Lindau																																					1		
32. <i>R. lorentziana</i> Griseb. = <i>R. ciliatiflora</i> Hook.																																					0		
33. <i>R. macarensis</i> Leonard																																						1	
34. <i>R. macrophylla</i> Willd. ex Nees																																					12		
35. <i>R. macrophylla</i> var. <i>puberula</i> Leonard																																					0	SPECIMEN: COLOMBIA SANS LOCALITY	
36. <i>R. malacosperma</i> sensu Small (non Greenm.)																																				4			
37. <i>R. mentholides</i> Hieron.																																					1		
38. <i>R. neoneesiana</i> Washh.																																					1		
39. <i>R. nudiflora</i> (Enealim & A. Grav) Urb.																																					1		
40. <i>R. obtusa</i> Nees																																					7		
41. <i>R. panamensis</i> (Lindau) E. A. Tripp (syn. <i>Blechnum panamense</i>)																																					1		
42. <i>R. paniculata</i> L.																																					4		
43. <i>R. pennellii</i> Leonard																																					13		
44. <i>R. potamophila</i> Leonard																																					5		
45. <i>R. proxima</i> Lindau (syn. <i>R. thyrsoastachya</i> Lindau)																																					1		
46. <i>R. pulverulenta</i> Leonard																																						1	
47. <i>R. putumayensis</i> Leonard																																						1	
48. <i>R. rusbyi</i> Leonard																																						2	
49. <i>R. simplex</i> C. Wright																																						2	
50. <i>R. sprucei</i> Lindau																																						2	
51. <i>R. stuebelii</i> Lindau																																						0	No locality data available yet.
52. <i>R. terminalis</i> (Nees) Washh.																																						8	
53. <i>R. tetrastichantha</i> Lindau = <i>R. tubiflora</i> var. <i>tetrastichantha</i> (Lindau) Leonard																																						2	
54. <i>R. thyrsoanthoides</i> Lindau																																						0	SPECIMEN: COLOMBIA SANS LOCALITY
55. <i>R. tolimensis</i> Leonard																																						1	
56. <i>R. tuberosa</i> L.																																						13	
57. <i>R. tubiflora</i> Kunth																																						13	
58. <i>R. tubiflora</i> f. <i>alba</i> Leonard																																						1	
59. <i>R. tubiflora</i> f. <i>nicolor</i> Leonard																																						1	
60. <i>R. tubiflora</i> var. <i>hirsuta</i> Leonard																																						1	
61. <i>R. tubiflora</i> var. <i>parviflora</i> Leonard																																						2	
62. <i>R. tubiflora</i> var. <i>tetrastichantha</i> (Lindau ex Pittier) Leonard																																						7	
63. <i>R. tubiflora</i> var. <i>tetrastichantha</i> var. <i>bicolor</i> Leonard																																						0	No locality data available yet.
64. <i>R. tubiflora</i> var. <i>tetrastichantha</i> var. <i>caesoligneata</i> Leonard																																						0	No locality data available yet.
65. <i>R. tubiflora</i> var. <i>tetrastichantha</i> var. <i>flava</i>																																						0	No locality data available yet.
66. <i>R. uribei</i> Leonard																																						2	
67. <i>R. ventricosa</i> Polak. (hom. <i>R. ventricosa</i> Kunth = <i>R. brevifolia</i> (Pohl) C. Ezcurra)																																						0	No locality data available yet.
68. <i>R. viridiflora</i> Leonard																																						1	
69. NUM. TAXA PER DEPTO	12	1	5	10	4	2	5	2	8	1	12	3	14	3	6	5	5	4	17	3	1	7	0	0	1	6	4	9	11	4	4								
70. NUM. ENDEMIC TAXA	0	0	0	0	1	0	0	0	1	0	1	0	1	2	0	1	0	1	4																				

	A	B	C	D
1	Departamento	No. Taxa	No. Endemic	Taxa of Interest
2	Amazonas (AMA)	9	3	<i>R. menthoides, R. neoneesiana, R. thrysostachya</i>
3	Antioquia (ANT)	12	0	<i>R. cuatrecasasii, R. fulgida var. angustissima</i>
4	Arauca (ARA)	1	0	
5	Atlántico (ATL)	5	0	
6	Bolívar (BOL)	10	0	
7	Boyacá (BOY)	4	1	<i>R. viridifolia</i>
8	Caldas (CAL)	2	0	
9	Caquetá (CAQ)	5	0	
10	Casanare (CAS)	2	0	
11	Cauca (CAU)	8	1	<i>R. caucensis, R. gorgonensis</i>
12	Cesar (CES)	1	0	
13	Chocó (CHO)	12	1	<i>R. biolleyi, R. cooperi, R. nudiflora</i>
14	Córdoba (COR)	3	0	
15	Cundinamarca (CUN)	14	2	<i>R. aurantiaca, R. ciliatiflora, R. fulgida, R. haughtii, R. longifilamentosa</i>
16	Guainía (GUA)	3	0	
17	Guaviare (GUE)	6	0	
18	Huila (HUI)	5	1	<i>R. grisea</i>
19	La Guajira (LAG)	5	0	
20	Magdalena (MAG)	4	0	
21	Meta (MET)	17	4	
22	Nariño (NAR)	3	0	
23	Norte de Santander (NSA)	1	0	
24	Putumayo (PUT)	7	2	<i>R. colorata, R. putamayensis, R. tubiflora f. alba</i>
25	Quindío (QUI)	0	0	
26	Risaralda (RIS)	0	0	
27	San Andrés y Providencia (SAP)	1	0	
28	Santander (SAN)	6	0	
29	Sucre (SUC)	4	0	
30	Tolima (TOL)	9	1	<i>R. tolimensis</i>
31	Valle del Cauca (VAL)	11	0	<i>R. calimensis</i>
32	Vaupés (VAU)	4	0	
33	Vichada (VID)	4	0	
34				
35				
36	COLOR KEY			
37	REQUIRED TRAVEL FOR ENDEMIC TAXA			
38	HIGH SPECIES RICHNESS & ENDEMIC TAXA			



GENERAL WORKFLOW

10. Compilation of Digital Resources



Digital Reference Library

Comprehensive Checklist (with synonymy)

Published Literature

Floras

Protologues

Specimen Images

68

CONTRIBUTIONS FROM THE NATIONAL HERBARIUM

Corollas uniform in color.

Corollas pure white.....16a. *R. tubiflora* var. *tetrastichantha*
Corollas not white.

Endemic in Costa Rica; corollas yellow.

16c. *R. tubiflora* var. *tetrastichantha* f. *flava*

Species of Panama and Colombia; corollas crimson, lilac, or red.
16. *R. tubiflora*

Corollas small, 4 cm. long or less.

Corollas pale violet.....16e. *R. tubiflora* var. *parviflora*

Corollas white.....16f. *R. tubiflora* var. *parviflora* f. *alba*

B. Rachis various or lacking, not short, thickish and conelike.

Pubescence of the inflorescence or at least that of the calyx lobes consisting in part of glandular hairs.

Plants glandular-puberulous..... 17. *R. lorentziana*

Plants glabrous or sparingly pilose, only the calyx bearing scattered minute glandular hairs..... 4. *R. malacosperma*

Pubescence eglandular.

C. Stems glabrous, puberulous, or pilosulous.

Corollas mauve.

Capsules clavate, puberulous; flowers axillary.

Leaf blades oblong to lanceolate; corollas 2.5 to 3 cm. long.

18. *R. geminiflora*

Leaf blades narrowly lanceolate; corollas 4 to 5 cm long.

18a. *R. geminiflora* var. *angustifolia*

Capsules cylindric, glabrous or the calluses bearing a few hairs; inflorescence verticillate, forming a naked interrupted spike.

19. *R. obtusa*

Corollas red, white, greenish, or pink.

Bracts bright red..... 20. *R. colorata*

Bracts green.

Plants 4 to 5 meters high; leaf blades large (up to 30 cm. long and 17 cm. wide); corolla pale green.....21. *R. viridiflora*

Plants one meter high or less; leaf blades smaller (16 cm. long and 6 cm. wide or less); corolla blue, white, violet, or pink.

Leaf blades oblong-lanceolate, narrowed at base... 22. *R. pennellii*

Leaf blades ovate, rounded or obtuse at base... 23. *R. colombiana*

C. Stems or at least the uppermost portions densely pilose.

Flowers borne in terminal spikes, the bracts imbricate.

Spikes 3 cm. long or less; calyx 8 mm. long; leaf blades 8 cm. long and 3.5 cm. wide or less..... 24. *R. aquatica*

Spikes as much as 12 cm. long; calyx 4.5 mm. long; leaf blades up to 16 cm. long and 8.5 cm. wide..... 25. *R. lasiostachya*

Flowers borne in axillary bracted clusters.

Leaf blades oblong, elliptic, 12 cm. long or less... 26. *R. putumayensis*

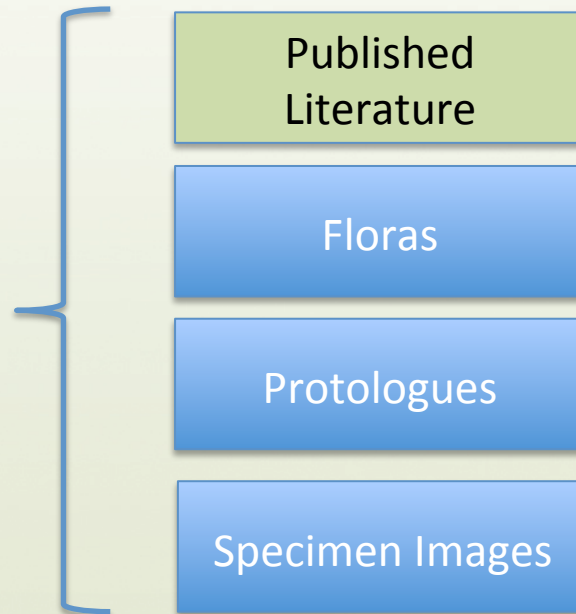
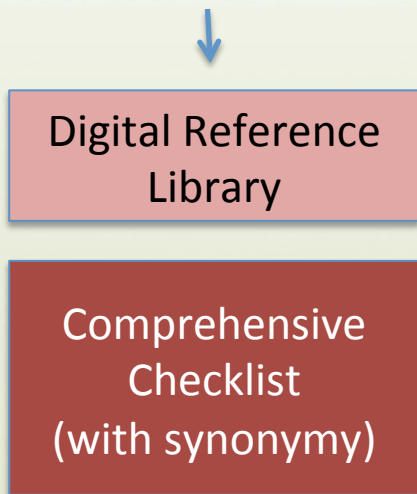
Leaf blades oblong-lanceolate, up to 24 cm. long..... 27. *R. uribei*



RANCHO SANTA ANA BOTANIC GARDEN

GENERAL WORKFLOW

10. Compilation of Digital Resources



Ruella cuatrecasatii Washausen, sp. nov.

Fig. 1 (D-G)

Type: *J. Cuatrecasas & L. Willard 26123*, Colombia, Antioquia: Between Villa Arteaga and Chigorodó, El Tigre, ± 100 m, 1 Oct. 1961 (US holotype).

Suffrutescent, 1 mm tall; stem ascending, subquadrangular, grooved and rounded on the angles, pilose, the trichomes 1-1.5 mm long, upwardly curved or appressed. Leaves long-petiolate, the petioles 3.5-4 cm long, glabrous or sparingly pilose, the blades oblong-elliptic, 24-27 cm long, 10.5-11.5 cm broad, short-acuminate at apex, narrowed at base, entire, the upper surface dark-green, glabrous or bearing a few scattered appressed trichomes less than 0.5 mm long, the lower surface a lighter green, minutely and obscurely puberulous, especially along the costa and lateral veins (10 to 11 pairs), these more prominent on the lower surface. Flowers borne in pairs or several, peduncled, clustered in the axils of the upper leaves, the peduncles 2.3-3 cm long, sharply quadrangular, densely pilose, the trichomes 1-1.5 mm long, upwardly appressed; pedicels quadrangular, 2.5 mm long; bracts subtending the flower oblanceolate, 3.5-4 cm long and 3.5-4 mm broad, acute at apex, narrowed at base, both surfaces sparingly pilose, the trichomes upwardly appressed; calyx about 2 cm long, the segments lance-subulate, densely pilose, subequal, the posterior lobe 2.5 mm broad, the anterior pair 2 mm broad, the lateral pair 1.75 mm broad; corolla white, 6.5 cm long, moderately pilose without, especially along the throat, the tube infundibular, curved, 3 mm

GENERAL WORKFLOW

10. Compilation of Digital Resources



Digital Reference Library

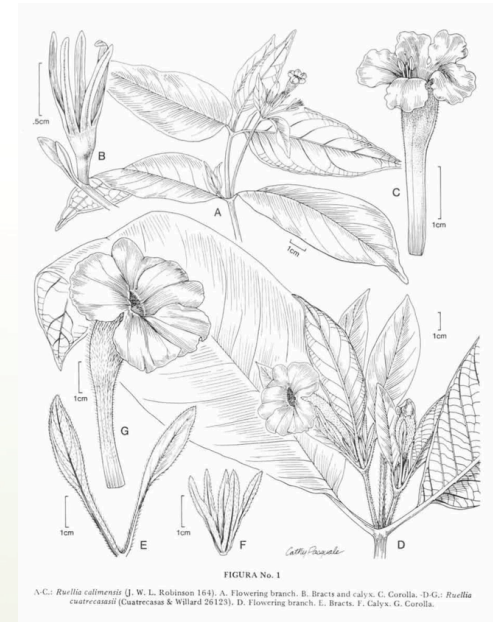
Comprehensive Checklist (with synonymy)

Published Literature

Floras

Protologues

Specimen Images





SUMMARY

- ✦ One of many ways to use biodiversity data
- ✦ Plans based on existing data resources can save time and money!
- ✦ Workflow facilitates use of portable/handheld devices to:
 - Find localities with handheld devices
 - Identify local land features
 - Review previous collector observation data
 - Program your search image
 - ID specimens in the field



RESOURCES

✦ For more information on:

- Georeferencing (iDigBio):

<https://www.idigbio.org/wiki/index.php/>

[GWG Second Train the Trainers Workshop#Remote Participation:](#)

✦ Useful links:

- BaseCamp (Garmin):

<http://www.garmin.com/en-US/shop/downloads/basecamp>

- Biodiversity Heritage Library: <http://www.biodiversitylibrary.org/>

- GeoLocate: <http://www.museum.tulane.edu/geolocate/>

- GPS Visualizer: <http://www.gpsvisualizer.com/>

- J-Stor Global Plants: <http://plants.jstor.org/>

- Taxonomic Name Resolution Service: <http://tnrs.iplantcollaborative.org/>

- Tropicos: <http://tropicos.org>

