

C A C T U S
CHRONICLE

J A N U A R Y 2 0 2 2

VOL. 90 ISSUE 01

EXPLORING

SOUTH AFRICA

FROM CAPE TOWN TO RICHTERSVELDV
WITH GUILLERMO RIVERA

Photo credit: Guillermo Rivera

LACSS JANUARY IN-PERSON MEETING IS NOW CANCELED

JANUARY MEETING WILL CONTINUE ON ZOOM!

JANUARY 6TH. 7PM, HOST WILL OPEN ROOM AT 6:30PM

B O A R D OF DIRECTORS

2 0 2 2

LACSS MISSION STATEMENT

The Los Angeles Cactus and Succulent Society (LACSS) cultivates the study & enjoyment of cacti & succulent plants through educational programs & activities that promote the hobby within a community of fellow enthusiasts & among the greater public.

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FROM THE
M E S S A G E
PRESIDENT

HAPPY NEW YEAR EVERYONE!

Did you make any new year's resolutions? How's that working out for you?

We thought we could and we almost did. Again, I would like to apologize for the false start of in-person meetings. When we first started our planning and setting the date, the pandemic was slowing down. The rest is now history and we are back to our favorite ZOOM meetings. I like to look on the bright side of things and say maybe it will happen next month. Stay tuned. (that will continue to be my catch phrase for this year)

At each Board meeting we usually do a bit of brainstorming about what to do "next year." At our next Board meeting on January 30, we will continue those conversations in regards to meetings, venues, sales, etc. No matter what we did the last time, we always seem to tweak it just a bit the next time. By the time we reach perfection...

One thing that is now on the back burner, is the Plant of the Month awards. It has always been the focus of our "Holiday Awards Dinner" which hasn't happened in two years. For 2021, the participants and points earned were announced in the December Chronicle. The winners were to receive their awards at the January, 2022 in-person meeting. At this point, it is all on paper. Someday the winners will actually receive their award – in person! POM will continue using submitted photos for judging.

Want to know the name of a plant? Or want to know why it is not growing? Or has small, mysterious white puffy things on it? Take a photo, send it in and our experts will offer some insight. And we all want to know – how much rain is enough!?

In spite of the continuing pandemic, we are very optimistic about LACSS activities during 2022. I believe the worst is behind us and we just need to be patient and cautious. With that in mind –

SEE YOU SOON! ON ZOOM!

Stay safe and healthy
Joyce

J A N U A R Y M O N T H L Y P R O G R A M :

E X P L O R I N G

SOUTH AMERICA

F R O M C A P E T O W N T O R I C H T E R S V E L D

W I T H G U I L L E R M O R I V E R A



A journey through the provinces of Western Cape and Northern Cape, exploring the great succulent diversity of South Africa. We will visit several National Parks: Namaqua, Richtersveld, and others. The timing of this fascinating trip matches the incredible event of mass flowering in the desert.

Conophytum, Lithops, Aloes, Pachypodium, and many Mesembs are among the plants we are going to see on this presentation, together with some wildlife shots in Kruger National Park.

B R I E F B I O G R A P H Y O F GUILLERMO RIVERA



Born in Argentina.
Owner of PLANT EXPEDITIONS (formerly known as South America Nature Tours) a company dedicated to the organization of tours for the last 18 years, throughout South America (Chile, Argentina, Brazil, Peru, Colombia, Bolivia, Ecuador), Mexico and South Africa, Madagascar, and Namibia, with emphasis on plants: bromeliads, orchids, cacti, and other succulents.

Former researcher at the University of Cordoba, Argentina. BS degree in Biology University of Cordoba

MS Marine Biology. Northeastern University. PhD in Botany University of Cordoba.

This year we are planning the following plant adventures to these countries: Socotra, Baja, Namibia, Brazil, South Africa, Peru, Argentina-Chile.

If you wish to be kept informed about our future trips, please email Guillermo at info@plantexpeditions.com or plantexpeditions@gmail.com or visit www.plantexpeditions.com



Photo credit: Guillermo Rivera

POM Online Policies

AS LACSS CONTINUES ITS ONLINE MEETING FORMAT FOR THE NEXT SEVERAL MONTHS, SOME SLIGHT MODIFICATIONS IN THE PLANT-OF-THE-MONTH (POM) COMPETITION HAVE BEEN ADOPTED BEGINNING FEBRUARY, 2021. WE HOPE THESE CHANGES WILL MOTIVATE MORE MEMBERS TO COMPETE IN THIS LONG-STANDING EDUCATIONAL TRADITION. BESIDES, IT'S REALLY FUN TO GET YOUR PLANTS READY FOR THEIR CLOSE-UPS.

- SUBMISSIONS WILL BE LIMITED TO A MAXIMUM OF 2 CACTUS AND 2 SUCCULENT SUBMISSIONS PER PERSON.
- WINNING POINTS WILL BE RECORDED AND ACCUMULATED FOR PRIZES AWARDED AT OUR YEAR-END HOLIDAY PARTY IN 2021.
- COMPETITION DIVISIONS (ROOKIE, NOVICE, ADVANCED, AND OPEN) WILL BE JUDGED TOGETHER, AS THERE AREN'T ENOUGH PLANTS FOR A COMPETITION IN EACH DIVISION.
- ONE POINT WILL BE AWARDED FOR EACH ENTRY, AND WINNERS IN THE CACTUS AND THE SUCCULENT AREAS WILL BE AWARDED 3 POINTS FOR 3 RD PLACE, 4 POINTS FOR 2ND PLACE, AND 5 POINTS FOR 1ST PLACE.
- PHOTOS MUST BE SUBMITTED TO OUR CACTUS CHRONICLE EDITOR : NEWSLETTER@LACACTUS.COM BY THE 20TH OF THE MONTH PRECEDING THE COMPETITION IN ORDER TO BE CONSIDERED IN THE JUDGING.
- MANNY RIVERA WILL SELECT THE WINNING CACTUS AND SUCCULENT BASED ON THE PHOTOS, TO BE ANNOUNCED DURING THE MEETING.

THANK YOU TO EVERYONE WHO HAS PARTICIPATED IN THIS ACTIVITY!

PLANT ^{Of} _{the} MONTH

2 0 2 2

JANUARY

Frailea
Adromischus

FEBRUARY

Monotypic
Senecio, Othonna

MARCH

Mammillaria Clusters
Aloe Clusters

APRIL

Ecobaria, Acharagma
Aizoceae Thickened Roots

MAY

Cacti staged as miniature
Succulent staged as miniature
(Diameter of pot
NO LARGER THAN 2")

JUNE

Favorites

JULY

Discocactus
Dyckia

AUGUST

Thelocactus-Hamatocactus
Bursera

SEPTEMBER

Gymnocalycium
Euphorbia Millii type

OCTOBER

Astrophytum
Sanseveria

NOVEMBER

Variegated
Variegated

DECEMBER

Holiday Awards Party

P L A N T O F T H E M O N T H

ADROMISCHUS

B Y K Y L E W I L L I A M S

The Crassulaceae is one of the largest and best known plant families to cactus and succulent enthusiasts. It includes such well known genera such as Crassula, Echeveria, Dudleya, Sedum, Kalanchoe, Aeonium and others. They are usually known as forming rosettes of fleshy leaves or stems with neatly arranged leaves. They are native to every continent except Antarctica, with areas of high diversity in Mexico, the Mediterranean, Southeast Asia and especially Southern Africa. South Africa & Namibia are where our genus of the month, Adromischus, can be found.

Adromischus contains approximately 30 species of creeping or short upright perennial herbs. Unlike most of the Crassulaceae family these plants do not form rosettes and only a few are readily recognizable as belonging to the family at all unless you are familiar with technical floral characters. Though some species could be mistaken for a Kalanchoe. The upright plants rarely get more than a foot tall and the creeping varieties stay small as well. What makes them popular to grow and collect are the unusual and colorful leaves. The most common leaf shape is wide fat leaf with a crescent to nearly circular shape. Other leaf shapes include cylindrical, triangular, egg shaped, crinkled edges, and even ones that look like rocks! These leaves are quite colorful too. While some are plain green, most have reddish highlights or mottling. Some leaves are gray with brown or red spots, some are bluish green, others are covered in hairs. With all the combinations of leaf shapes and colors it is no wonder that these plants have started to peak the interest of hybridizers!

It is important to understand that these plants are partial winter growers like Gasteria and Haworthia. By that I mean that they put on most of their growth from fall to spring, but don't go into a hard dormancy like certain winter growers such as Albuca, or Conophytum. So, you can water in the summer, but less often during that time. In fact, when we get to the real heat of summer, usually late July through early September, I stop watering entirely. It literally took me years to do this as I was just sure they wanted some water during a heat wave. Every time I'd do that, I'd start losing quite a few plants to rot. Finally, when I stopped watering during that time the survival rate went way up. Aside from this issue care is fairly straightforward. During the growing season water when nearly dry (they even appreciate the occasional rain storm) and give them bright light but not too much full sun. They like it on the shadier side, but not too dark as you do want to maintain the color.

Propagation is simple as they readily root from leaf cuttings. Remove a leaf and put it base down in a cactus mix. A little moisture is fine but don't water too much until the leaf develops roots. After the roots form it won't be long until a small shoot with new leaves start growing. As the new stem grows the original leaf will shrivel away on its own. The ease and simplicity of propagation is a great feature of the plant as if you overwater your plant and it rots you can save it by harvesting the leaves and potting them up.



Adromischus herrei



Adromischus trigynus 'Coral Hearts'



Adromischus geyeri

P L A N T O F T H E M O N T H

FRAILEA

B Y K Y L E W I L L I A M S

This month we are going very small for our cacti. We are focusing on the genus with the smallest average plant size for a cactus genus with numerous species. In other words, *Blossfeldia liliputana* is the world's smallest cactus but many of the species *Frailea* are close seconds. This should be a heads up for those of you that think you are out of space for more plants. Not with these guys! Most of the species we are looking at this month could live permanently in a 3" pot or less.

Frailea is a genus of approximately 20 species from South America, with most species in Brazil. In general, they are quite small, with individual heads roughly the same diameter as a quarter. They clump, have small to no spines, and usually have a depressed or sunken center. In times of drought the plants will contract and sink below the soil level. This can help the plant retain water by getting it out of the hot sun.

Individual plants often make two different types of flowers. The prettiest ones are big and open, generally bright yellow. These flowers are how the plant cross pollinates with other plants (i.e., the normal way flowers work). That allows for genes of different plants to combine allowing for more diversity within the species. The other, more unusual, flowers are referred to as cleistogamous, or hidden flowers. They don't seem hidden at first. In fact, you'll see a big flower bud developing like normal, but it never opens. Eventually it falls off and the fruit develops and produces seeds.

What happened was the flower intentionally remained closed and self-pollinated. This ensures seed production and therefore a higher chance of producing baby plants than with an open flower that may or may not get pollinated. The down side is the plants are very inbred, so any bad traits of the parent could be as bad or worse in the progeny. Of course, good traits can get passed along too! For us as growers the upside is that it is usually easier to get seeds of *Frailea* than it is many other genera of cacti.



Frailea magnifica

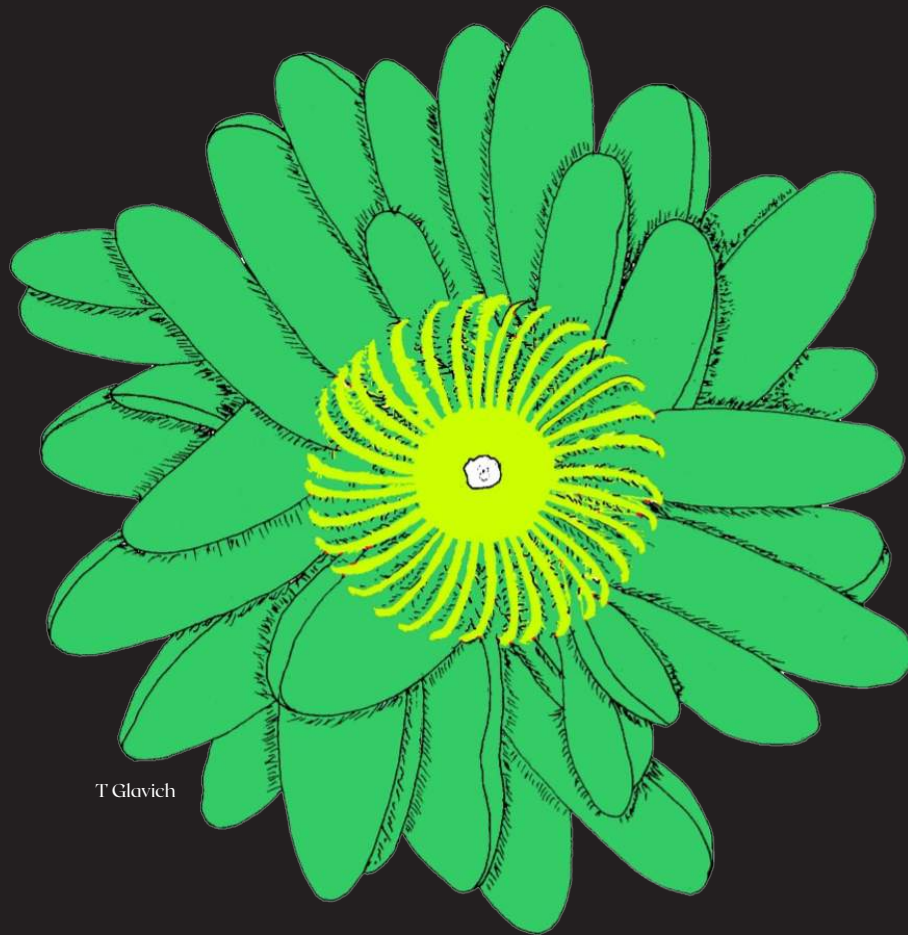


Frailea Bueckneri



Frailea asteroides

27th Annual San Gabriel Valley Cactus and Succulent Show and Sale



T Glavich

Glottiphyllum oligocarpum

LOS ANGELES COUNTY ARBORETUM, 301 N BALDWIN, ARCADIA

HOURS: 11 AM — 5 PM

SALE MARCH 4 - 6 | SHOW MARCH 5 - 6

LIMITED TICKETS AVAILABLE

ADVANCED PURCHASE REQUIRED ONLINE AT
WWW.ARBORETUM.ORG

ARBORETUM MEMBERS FREE

CASH REGISTERS OPEN AT 8:30AM

WWW.SGVCSS.COM

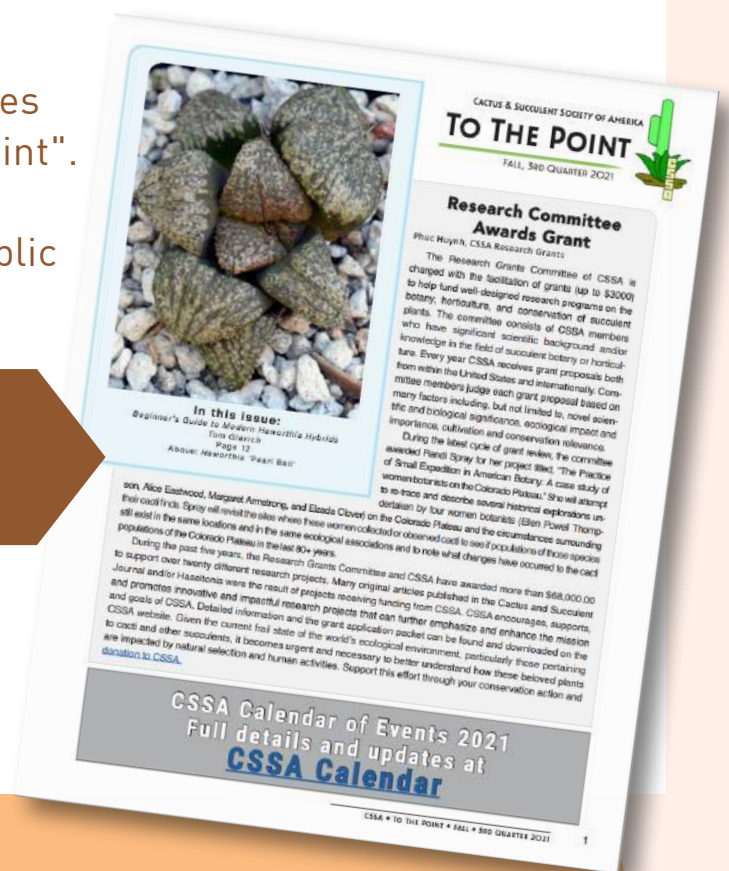
A C O M P L E M E N T A R Y C O P Y O F
TO THE POINT
A C S S A Q U A R T E R L Y P U B L I C A T I O N

Greetings CSSA Affiliate Clubs,

As you may know, the CSSA publishes a quarterly e-newsletter "To The Point". Currently, a complementary copy of "To The Point" is available to the public free of charge.

**CLICK HERE TO ACCESS
AND RECEIVE A COMPLEMENTARY
COPY OF THE NEWSLETTER.**

Thank you,
MA Bjarkman
Co-chair, CSSA Affiliate Committee



U P C O M I N G CSSA WEBINAR

SUCCULENT TREES: PART 2 - CULTIVATION DAN MAHR

Join us Saturday, January 8th at 10AM PST for the next in our series of webinars featuring Cactus and Succulent experts from around the world.



[Click here to register!](#)

Dan's first presentation in 2021 began with a characterization of succulent trees and an overview of the important families and genera. This presentation will focus on general growing practices, especially as container plants, and conclude with a showing of less-ordinary species that have substantial horticultural potential, but are possibly under-appreciated, and therefore, under-utilized. There are between 500 and 1000 species of succulents that can be categorized botanically as trees. They are a diverse group, coming from some 25-30 plant families and nearly 100 genera. Some groups are easily recognized and commonly cultivated – cacti, aloes, euphorbias, and pachypodiums, for example. Some of these trees are charismatic as young plants and are propagated by giant wholesale nurseries and sold by the tens of thousands in chain stores – many customers never realize that their new cute little plant in the 3" pot has the potential to grow to be a 30 ft (10 m) tree. However, there is a substantial portion of succulent tree species that are interesting, even beautiful, but are rarely cultivated and infrequently available even from specialized cactus and succulent nurseries.

Dan Mahr – Brief Biography

Dan Mahr grew up in southern California where he developed an interest in the natural world at an early age. He had an outdoor cactus garden by the age of 11 and has been growing cacti and other succulents continuously since – over 60 years. He and his wife Susan are both entomologists and lived in Wisconsin for 40 years, on the faculty of the University of Wisconsin – Madison. They have now returned to southern California. Dan has been a member of the Cactus and Succulent Society of America for 45 years and was on the Board of Directors for 15 years, serving as CSSA president in 2005-2006. Dan founded the CSSA Fields Trips Program in 1998 and served as its director for 20 years, organizing field trips for CSSA members to cactus and succulent habitats throughout the world. He has personally seen succulents growing in their native habitats in 25 countries in Europe, Africa, Latin America, Australia, and various island countries. His personal interest in succulents has varied through the years; currently he has a mixed assortment of cacti and other succulent plant families, but specializes in succulent trees and hybrid adeniums.

EXPEDITION

P L A N T
T O U R U P D A T E S

Dear Friends,

First and once again, I would like to wish that everyone is in good health, and hopefully vaccinated or soon to be! I am sure this pandemic has touched the lives of everyone in so many ways, and like me, I think many of you have felt at times like it will never end and things may never be normal again.

Despite the challenging situations experienced during the pandemic, we were able to organize a tour to Baja California in May 2021, and Northwestern Argentina in November 2021. All participants were vaccinated (a requirement for joining my tours from now on), and everyone felt very safe. There was minimum contact with people outside of the tour group, and we just had to follow local protocols/guidance at hotels, shops, and restaurants. While in the field and inside the bus, we truly enjoyed our lives without a mask!

I know many are/were concerned about “variants” - Are the many new variants more dangerous? From what I have read there is no evidence that any of the new variants cause any more serious illness than the original strain of Covid, for most people who become infected. AND if you are vaccinated, you are PROTECTED (it reduces your risk of getting Covid, and from getting seriously ill if you do). Please do consider a booster for extra protection if you are traveling or are starting to have a more open social life.

Please find attached list of planned and confirmed tours for 2022, plus potential future tour offerings!

continues next page>

I would really like to guide a tour to Ecuador in January-February 2022 but looking for a few more participants. Please let me know if anyone has an interest in Bromeliads, orchids, aroids, and other tropical plants, this is an incredible tour! If you have any concerns about Covid, Ecuador is one place where you shouldn't have to worry - the number of cases is very low (many less cases per million people than the US and UK - <https://www.worldometers.info/coronavirus/>). Much of the tour is in remote areas and we are unlikely to meet other people except in big towns where we just pass through. Because of the importance of tourism, Ecuador has prioritized vaccination for anyone involved in the tourist industry (hotels, restaurants, transportation companies etc.). In fact, as of December 11, 2021 Ecuador has 77% of its population having received at least one dose of vaccine, which is higher than vaccination rates in the US and UK (<https://ourworldindata.org/covid-vaccinations>). You may also be interested to read the following article "Why Ecuador vaccinates its population faster than the rest of the world" (<https://blogs.worldbank.org/latinamerica/why-ecuador-vaccinates-its-population-faster-rest-world>).

Well besides these updates, the most important thing I would like to do is to wish you all HAPPY HOLIDAYS and hoping for things to get back to normal soon!

Keep safe, we will be traveling again soon!
All the best,

Guillermo Rivera
Plant Expeditions

2022 SCHEDULED TOURS

A	ECUADOR	January 21 – Feb 5, 2022	4 confirmed, 4 places available
B	SOCOTRA	Feb 28 – March 14, 2022	FULLY BOOKED
C	BAJA, CALIFORNIA	April 18 – May 2, 2022	FULLY BOOKED
D	NAMIBIA	May 12 – 26, 2022	Possibly FULLY BOOKED
E	BRAZIL	July 2022	Taking reservations
F	SOUTH AFRICA	August 19 – Sept 1, 2022	Possibly FULLY BOOKED
G	PERU	September 2022	Tentative
H	MADAGASCAR (CENTRAL - SOUTH)	October 14 – 30, 2022	2 places available
I	ARGENTINA - CHILE	Nov 16 – Dec 2, 2022	3 places available

P L A N T
EXPEDITION
2 0 2 2 S C H E D U L E

ECUADOR: JANUARY 21 - FEBRUARY 5, 2022. Over 150 species of Bromeliads in habitat!

This trip will combine the best of Southern and Northern Ecuador. A must for anyone into Bromeliads. I have traveled to Ecuador on 8 different occasions. I am planning to add and explore a few new places on this trip (hence more days). <http://www.plantexpeditions.com/ecuador>

Dates: **January 21 - February 5, 2022**

Duration: 17 days

Mode: All inclusive, starting in Guayaquil, ending in Quito. (Minimum number of participants 8).

Price: \$4250 all-inclusive except air fare
(Single occupancy, add \$580) - **4 PLACES LEFT**

SOCOTRA: MARCH 2022 Finally, we can visit the island!

As many of you know, I've been planning and researching the possibility of conducting a tour to Socotra for a long time. Political circumstances made this journey difficult in the past 6 years. However, recent changes are making this a possibility: a direct flight from Abu Dhabi to the island of Socotra without a layover in Yemen!

I am still working on the logistics. Main purpose is to see plants! But the island is beautiful. Hiking will be required (porters can be requested). Mainly camping except first, middle, and last day of the trip, that we will arrange for hotel/guest house stay. You will be required to bring a light sleeping bag, and a camping mattress for your comfort.

Accommodations would be in the only hotel 3 nights (first, last, and middle) and camping on tents provided by local outfitter who would also be responsible for transportation on the island, as well as all meals. Easy hiking 4-5 hours a day would be the norm, with temperatures 60-85 F. Having 12 days (besides arrival and departure, would allow us to explore, at a low pace, most of the island's interesting sites. Please take this into account: you will need to be in good shape to keep up with the group, no strenuous hikes but constant moving. This is an active trip.

Again, participants are expected to be in good shape, to hike, sleep on tents, flexible with basic (but good meals), and be able to carry their personal belongings, including a light sleeping bag. I am planning at least one night of hotel in the middle of the tour on the island at a basic hotel/facility to take a BREAK from camping. For those thinking about showers, plenty of freshwater oasis and pools most days! More info will be provided as I gather more information and make more decisions regarding this trip.

Flora: *Adenium socotranum* (in bloom). all species of *Aloe*, *Boswellia*, *Caralluma*, *Ceropegia*, *Cissus*, *Commiphora*, *Crassula*, *Dedrosicyos*, *Dorstenia*, *Dracaena*, *Duvaliandra*, *Echidnopsis*, *Edithcolea*, all *Euphorbia*, *Jatropha*, *Kalanchoe*, *Ledebourria*, *Peperomia*, *Sarcostema*, *Senecio*, *Socotrella*, *Sterculia*

<https://www.plantexpeditions.com/socotra>

Dates: **Feb 28-March 14, 2022**

Duration: 14 days on the island of Socotra.
Flight from Abu Dhabi to Socotra March 7th, 2022,
return flight March 21st, 2022

Mode: All inclusive, Socotra (accommodations (3 hotel nights, camping, visa fees, flights from Abu Dhabi,))
Expect hikes 4-6 hours a day, but not very demanding.

Price: \$4700

P L A N T
EXPEDITION
2 0 2 2 S C H E D U L E

BAJA CALIFORNIA: "From San Diego to Cabo" APRIL 2022 Best weather and cactus in flower!

The Baja Peninsula is one of Mexico's best areas for plants. Cactus species are abundant, Ferocactus, Echinocereus, Mammillaria, Stenocereus, Lophocereus and of course choyas! Because of its isolation, the peninsula includes quite a few endemics, like Pachycereus pringlei, Echinocereus lindseyi, Lophocereus schottii, among others. Many other interesting plants grow in Baja: Dudleya, Agave, Fouquieria, Euphorbia, etc. The scenery is spectacular, clear water, beaches, and of course, the visit to a few islands completes this magic trip! <http://www.plantexpeditions.com/baja>

Dates: **APRIL 18 – MAY 2, 2022** (exact dates TBA)

Duration: 14 days (I may add a day to include another island)

Mode: All inclusive, starts in San Diego, ends in Cabo

Price: \$4250. All-inclusive except air fare
(SINGLE OCCUPANCY, ADD \$ 550)

NAMIBIA: MAY 2022 Best time for plants and Etosha wildlife safari!

This trip will now include a visit to world famous Sossusvlei dunes. The itinerary will continue to offer visits to several populations of Welwitschia mirabilis and Cyphostemma and all the way north to the border of Angola to Epupa falls to see Adansonia digitata in a spectacular setting. We will spend two full days in Etosha National Park for a GREAT safari experience. Tours will be co-guided by Sean Braine, probably the best natural history guide in Namibia with excellent knowledge on plants, birds, geology, and the country's natural history. We will visit 3 Welwitschia renowned populations, plus we will see Aloe, Cyphostema, Commiphora, Adansonia, Adenium, Hoodia, and of course many Acacias. Promise you will not be disappointed!

As previously we will be doing this tour in 4x4 with a pop up roof ideal for game watching and photography. Accommodations in mostly luxury lodges! <http://www.plantexpeditions.com/namibia>

Dates: **MAY 12-26, 2022**

Duration: 15 days

Mode: All inclusive, starting and ending in Windhoek

Price: \$4900. All-inclusive except air fare
(SINGLE OCCUPANCY, ADD \$ 600)

Participants: Minimum 8 participants - **POSSIBLY BOOKED, TAKING STANDBY RESERVATIONS**

BRAZIL: JULY-AUGUST 2022 Best time for bromeliads and cactus!

This journey will take you through the states of Minas Gerais and Bahia. The habitats of Cerrado, Caatinga, and Atlantic Forest are well represented in these states allowing for a great diversity of many Brazilian genera of cactii: Uebelmania, Micranthocereus, Melocactus, Pilosocereus, among others. A journey of over 4000 km worth the drive! <http://www.plantexpeditions.com/brazil>

Dates: **JULY-AUGUST 2022** (exact dates TBA)

Duration: 16 or 17 days

Mode: All inclusive, starting and ending in Belo Horizonte

Price: \$4450. All-inclusive except air fare
(SINGLE OCCUPANCY, ADD \$ 580)

Participants: Minimum 10 participants - **RESERVATIONS**

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P L A N T
EXPEDITION
2 0 2 2 S C H E D U L E

SOUTH AFRICA Namaqualand: AUGUST 2022 Flowering desert

F We have done the trip five times and are always adding new sightings! We shall see the desert in flower, with warmer temperatures and spring signs in late August. Many Aloes and Mesembs: Crassula, Lithops, Tylecodon, Hoodia, Conophytum, Argyroderma, and others!! <http://www.plantexpeditions.com/southafrica>

Possible extension for Safari in Kruger National Park!

Dates: **August 19- September 1, 2022**

Mode: All inclusive, starting in Cape Town

Duration: 14 days

Price: \$4800 all-inclusive except air fare
(Single occupancy, add \$580) - **SOLD OUT, taking standby reservations**

MADAGASCAR: OCTOBER 2022 Succulents and wildlife: lemurs, chameleons, and more!

G "The island of the big trees". After two trips to the island I am ready to go back! Journey to the western and southern part of the Island of Madagascar. The island is not only rich in plant endemisms (plants that are only found in this place), but also unusual animals: Lemurs and Chameleons are almost exclusively found in Madagascar. Among the plants, the genus Adansonia is perhaps the most common, but plenty of Aloe, Euphorbia, Didierea, Alluaudia, and Pachypodium. <http://www.plantexpeditions.com/madagascar>

Dates: **October 15-31, 2022**

Mode: All inclusive, starting in Antananarivo

Participants: Minimum 10-11 participants
- ONLY 2 PLACES LEFT

Duration: 17 days

Price: \$4750 all-inclusive except air fare
(Single occupancy, add \$580)

ARGENTINA AND CHILE: NOVEMBER 2022

H Cactus tour. CROSSING THE ANDES: Argentina and Chile combined in one trip.
<https://www.plantexpeditions.com/argentina-chile>

Dates: **November 16 – March 2, 2022**

Mode: All inclusive, starting and ending in Cordoba, Argentina.

Participants: Minimum 8, maximum 12 participants
- ONLY 3 PLACES LEFT

Duration: 17 days

Price: \$4550 all-inclusive except air fare
(Single occupancy, add \$550)

P L A N T

EXPEDITION

P O S S I B L E F U T U R E T O U R S

SOUTHERN PATAGONIA: ARGENTINA & CHILE FEBRUARY 2022

Glaciers, navigations and beautiful scenery and wildlife.

One of our best nature tours: Dolphins, Penguins (King, Magallanic, Gentoo) Rheas, Foxes, Glaciers, Fitz Roy mountain, Torres del Paine National Park. Including Torres del Paine. <http://www.plantexpeditions.com/patagonia>

Dates: **FEBRUARY 2023**
(TBC - TAKING EXPRESSIONS OF INTEREST)

Mode: All inclusive, starting in Rio Gallegos and ending in Ushuaia

Participants: More details if there is enough interest for a minimum of 8 participants

Duration: 15 days

Price: \$5450 p/p. Includes: navigation out of San Julian, entrance fee Glaciers National Park (twice), entrance fee Torres del Paine N.P., visit private reserve with King penguins, Tour and local guide in Tierra del Fuego National Park, visit Estancia Haberton, navigation Beagle Channel

MADAGASCAR (Northern) OCTOBER 2022

Succulents and wildlife: lemurs, chameleons, and more!

"The island of the big trees". After five trips to central and southern Madagascar, we are ready to explore the rest of the island: a journey to the north and central north to see more, the other Adansonia (baobabs), but also Aloe, Euphorbia, and Pachypodium. The island is not only rich in plant endemisms (plants that are only found in this place), but also unusual animals: Lemurs and Chameleons are almost exclusively found in Madagascar.

Dates: **OCTOBER 2023**
(TBC - TAKING EXPRESSIONS OF INTEREST)

Mode: All inclusive, starting and ending in Antananarivo

Participants: Minimum 10-11 participants

Duration: 17 days

Price: US\$TBA all-inclusive except airfare (single occupancy + TBA)