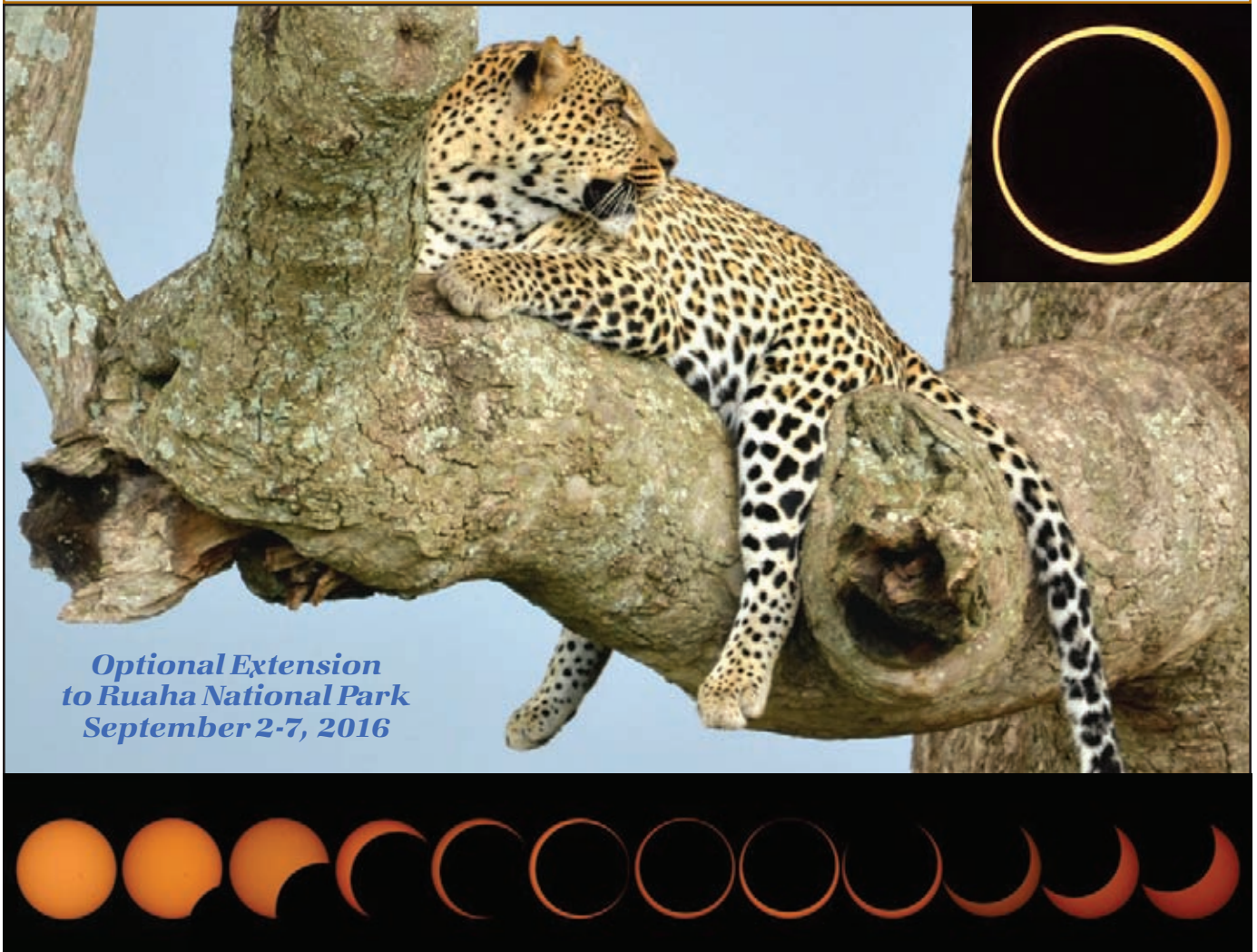


See the Annular Solar Eclipse, September 1, 2016!

TANZANIA

Wildlife & Eclipse Safari

August 23–September 3, 2016



*Optional Extension
to Ruaha National Park
September 2-7, 2016*

Dear Friends:

We invite you to join us on Safari in Tanzania to see the Annular Solar Eclipse as it passes over Africa on September 1, 2016 and to enjoy splendid days looking for lions, leopards, and other wildlife in the finest wildlife parks in East Africa.

In Northern Tanzania—traditional safari country—we will discover the profusion of elephants, lions, and other wildlife which inhabit Arusha and Tarangire national parks, and the vast, spectacular Ngorongoro Crater—and Serengeti—the finest wildlife sanctuaries in the world.

To see the Annular Solar Eclipse, we will fly from the Northern Safari parks to Mbeya,

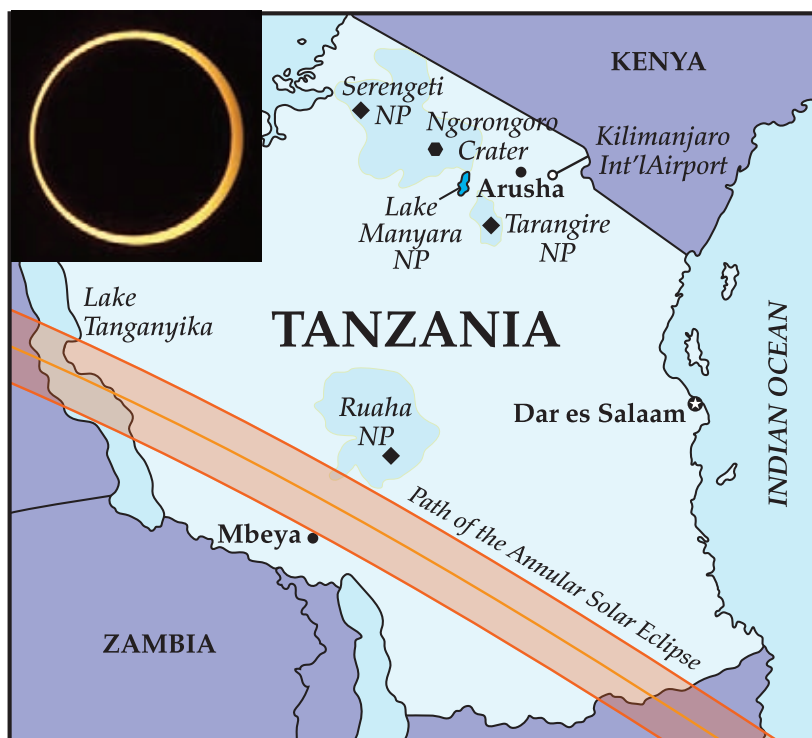
not far from Lake Malawi, where we will stay at a coffee plantation. Nearby is the fourth largest meteor yet discovered on earth.

From rare rhinos to hippos, and spectacular birds, you will be thrilled! You will travel with our superb safari leader, Dr. David Bygott, and excellent local driver guides.

We hope you will join us!

Best Regards,

Margaret M. Betchart
President, Betchart Expeditions Inc.
for AAAS, Sigma Xi, ACS
& The Planetary Society



Annular Solar Eclipse

An Annular Solar Eclipse occurs when the Moon covers the Sun's center, leaving the Sun's outer edge as a "ring of fire" or annulus of sunlight. An Annular Solar Eclipse only occurs when the Moon is in the new Moon phase. The Moon, Earth, and Sun are perfectly aligned, called syzygy, and the Moon is at apogee. The Moon revolves around the Earth up to 5 degrees from the centerline, so only when the Moon crosses the Earth's plane can an eclipse occur. At the instant of the beginning of angularity look at the trailing edge for lunar valleys and craters and a miniaturized display of Bailey's Beads. The Annular Eclipse occurs for three minutes on September 1, 2016.

LEADERSHIP

Leading this safari will be **Dr. David Bygott**, popular leader of many Betchart safaris in East Africa, including the Uganda Total Eclipse Safari in 2013.

David has spent half of his life in East Africa, including research on chimpanzee behavior with Jane Goodall, and research on lion ecology in the Serengeti with Dr. George Schaller. David is ideally suited to interpreting the wonders of Africa to American visitors. Joining him will be excellent African driver guides.



ITINERARY

Days 1/2 USA to Amsterdam & Tanzania

Fly from USA cities to Amsterdam overnight. On Day 2, take a morning connecting flight to Kilimanjaro Airport. Transfer to the *Kibo Palace Hotel* (2 nights).

Day 3 Arusha National Park

Have a safari briefing, then depart with a box lunch for Arusha National Park to discover wildlife. This park is located at the foot of Mt. Meru, the second highest mountain in Tanzania. You will have a chance to visit the Momela lakes and see flamingoes, Egyptian geese, and plovers. We will look for wildlife including waterbuck, dikdik, warthog, elephants, zebras, hippos, buffalo, and Masai giraffe.

Day 4 Tarangire National Park

We will depart Arusha on a morning drive through the Tanzanian countryside to Tarangire

National Park. Tarangire is famous for its large concentration of African elephants and baobab trees. Here we will find the very definition of the African bush: open savanna, impressive baobab trees, acacia trees, roaming herds of elephant, zebra, and an impressive array of predators. In the dry season, the permanent waters of the Tarangire River lure animals from across the gamelands of Northern Tanzania. We'll enjoy exploring this unique habitat today and look for wildlife on the prowl. *Tarangire Safari Lodge*.

Day 5 Tarangire to Ngorongoro Crater

This morning, we will depart for Ngorongoro Crater. We will pass through scenic Tanzanian countryside, and see villagers in the town of Karatu. As you reach the rim of Ngorongoro Crater, there are breathtaking views of this immense volcanic crater. Clouds billow up along the rim of the crater, while wildlife grazes



below in this extraordinary wildlife sanctuary. We will descend in our safari vehicles into Ngorongoro Crater and explore this vast wildlife reserve. *Ngorongoro Sopa Lodge.*

Days 6/7 Serengeti National Park

For the next two days, we will explore the renowned Serengeti National Park.

The Serengeti is one of the largest and most important wildlife sanctuaries in the world. A natural paradise roughly the size of Connecticut, it has an exhilarating ecosystem for African plains animals and riverine wildlife. The plains of Seronera and gently undulating hills of Lobo stretch up to the Kenyan border, an idyllic landscape dotted with kopjes and acacia trees in which we will look for resident wildlife. You will explore the immense plains of the Serengeti, alert for leopard, lions, zebras, Thompson's gazelles, and cheetah. We will also look for elusive animals as well as hyenas, jackals, vultures, and wildlife of the kopjes—rock hyraxes, mongooses, clipspringer, and dikdik. *Serengeti Sopa Lodge.*



Days 8/9 Serengeti to Arusha & Mbeya

This morning, we will fly to Arusha for our flight to Mbeya. We will then transfer to *Utengule Coffee Lodge (3 nights)*, our home base in southern Tanzania. The next day, we will tour the Coffee plantation, visit a school and may go see the meteor (the 4th largest in the world). We will prepare for the Annular Solar Eclipse, have an eclipse lecture, briefing, and photography hints.

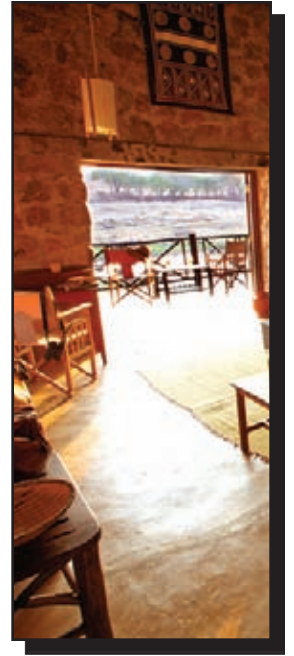
Day 10 Annular Solar Eclipse

Today, we will go to the best viewing location near Mbeya to see the Annular Solar Eclipse. The Eclipse path extends from the Atlantic Ocean (south of West Africa) across Africa and the Mozambique Channel to Madagascar, and continues over the Indian Ocean. Our viewing location is the best on this route in Tanzania! We will prepare for photographs and everyone will be given Eclipse viewing glasses!

During the hour before maximum Eclipse, the Moon will start to cover the face of the Sun which can give you wonderful time lapse photographs. With an Annular Eclipse, the Moon is further away from the Earth, so there will be a ring of sunlight or an annulus around the Moon at the time of greatest eclipse at midday. The Eclipse will last 3 minutes. We will then return to the Coffee Lodge for a lunch in celebration of our wildlife and eclipse safari!

Days 11/12 Mbeya to Dar es Salaam & Home

Today we will take flights from Mbeya to Dar es Salaam, and connect with our flights this evening to Amsterdam and the USA, arriving on Day 12 or begin the Ruaha Extension.



OPTIONAL EXTENSION TO RUAHA NATIONAL PARK September 2-7, 2016

This trip offers an opportunity to also explore Ruaha National Park in south central Tanzania—a remote wilderness park with a superb safari experience. On September 2, depart on a flight to Ruaha National Park. Arrive Msenbe Airstrip, and transfer to *Ruaha River Lodge (4 nights)* for a delicious hot lunch and afternoon leisure. In late afternoon we'll depart on our first wildlife-viewing excursion in the park and enjoy sunset over the Ruaha River!

For the next three days, we will explore Ruaha National Park. The park is well known for its varied dramatic scenery, which includes rolling hills, large open plains, groves of skeletal baobabs, and along its southern border, the Great Ruaha River. This is by far the most dominant geographical feature of the park and, for the wildlife it is the most important. Ruaha has a hot, dry climate which means the animals don't tend to stray too far from dependable water sources. This makes predicting game movements far easier, particularly in the dry season.

In Ruaha, there is a real mix between species more commonly associated with southern areas of Africa, and species which are widespread in the south such as buffalo, zebra, Defassa waterbuck, impala, bushbuck, giraffe, Lichtenstein's hartebeest, also the more elusive roan and sable antelope. You may see some of the most handsomely horned greater kudu males you will come across anywhere in Africa.

Grant's gazelle and lesser kudu are also found here and are good examples of game that is more typically associated with southern areas of Africa and species which are widespread in the south such as buffalo, zebra, Defassa waterbuck, impala, bushbuck, giraffe, Lichtenstein's hartebeest, also the more elusive roan and sable antelope. You may see some of the most handsomely horned greater kudu males you'll come across anywhere in Africa.

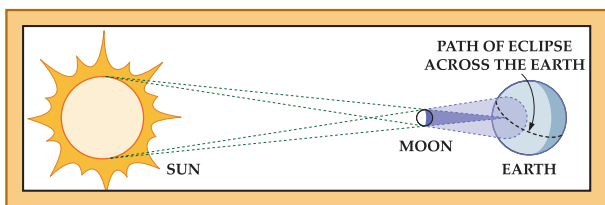
Ruaha National Park is also home to the largest elephant population found in any Tanzanian national park, with thousands of elephants migrating through the greater Ruaha ecosystem each year.

It is also an excellent park for predators. Lions are not only numerous and very habituated to vehicles, but the prides tend to be unusually large, often numbering more than 20 individuals. Cheetah can often be seen hunting on the open plains and the park has a particularly good reputation for leopard sightings. It is one of the last major strongholds for African wild dog populations with more than 100 found here.

On September 6th, we will fly to Dar es Salaam and take return flights to the USA.

Ruaha Extension Fee:

\$2,495 per person twin share with all meals and safari excursions. Flights Mbeya to Ruaha and Ruaha to Dar es Salaam and tips to safari staff are additional.



RESPONSIBILITY

Betchart Expeditions Inc., the American Association for the Advancement of Science (AAAS), Sigma Xi, The Scientific Research Society, the American Chemical Society (ACS), and The Planetary Society act only as agents for the passenger with respect to transportation and hotels, and exercise every care possible. However, we can assume no liability for injury, damage, delay, loss, accident or irregularity in connection with the services of any airplane, ship, motorcoach, or any other conveyance used in carrying out the arrangements of the tour. We cannot accept any responsibility for losses or additional expenses due to delay or changes in air or other services, sickness, weather, strike, war, quarantine, terrorism, acts of God, or other causes beyond our control. All such losses or expenses will have to be borne by the passenger, as tour rates provide for arrangements only for the time stated. We reserve the right to substitute another leader of similar expertise or reserve the right to cancel any tour prior to departure, in which case the entire payment will be refunded with no further obligation on our part. The right is also reserved to decline to accept or retain any person as a member of the tour. No refund will be made for the unused portion of any tour unless arrangements are made in sufficient time to avoid penalties. The price of the program is based on current tariffs and rates, and is subject to change. Any tariff, exchange rate, or fuel increases will be passed on to participants. Baggage is carried at the owner's risk entirely. It is understood that the air ticket when issued shall constitute the sole contract between the passenger and the airline concerned. The airlines concerned are not to be held responsible for any act, omission, or event during the time passengers are not on board their plane or conveyance.

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RESERVATIONS

#1424

Yes! I/we want to join the **Tanzania Eclipse Safari, August 23–September 3, 2016**, offered by **AAAS Travels, Sigma Xi, ACS & The Planetary Society**.

Please reserve _____ space(s). As a deposit, I/we enclose a check for \$ _____ (\$1,000 per person) payable to Betchart Expeditions Inc. Trust Account.

Name(s) _____ Age _____

_____ Age _____

Address _____

City _____ State _____ Zip _____

Phone: Home (_____) _____

Work (_____) _____

Email Address _____

I wish to book the Optional Ruaha Extension: ☐ Yes ☐ No

If yes, please mail a deposit of \$500 per person

Membership: ☐ AAAS ☐ Sigma Xi ☐ ACS ☐ Planetary Society

Accommodations Preference:

☐ Twin ☐ Single ☐ Twin Share: ☐ with a friend or

☐ Nonsmoker ☐ Smoker ☐ assign a roommate

Signature _____ Date _____

Signature _____ Date _____

Mail To: Tanzania Eclipse Safari 2016
Betchart Expeditions Inc.
17050 Montebello Road
Cupertino, CA 95014-5435

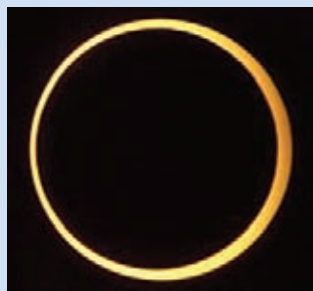


**AAAS Travels
ACS & Sigma Xi Expeditions
The Planetary Society**

BETCHART EXPEDITIONS Inc.
17050 Montebello Road, Cupertino, CA 95014-5435

FIRST CLASS

**Tanzania Wildlife
& Eclipse Safari
August 23–
September 3, 2016**



**See the
Annular Solar Eclipse
September 1, 2016!**



COSTS & CONDITIONS

Trip Fee: \$5,295 per person twin share + air fare of approximately \$1,795 from Washington Dulles to Amsterdam and Kilimanjaro, RT, and in-tour charter flights \$995 per person.

What to Expect: This safari is planned for the travel enthusiast who would enjoy exploring the superb wildlife reserves in Tanzania on a classic African safari and seeing the Annular Solar Eclipse September 1, 2016. Travel by 7 passenger safari vehicles with experienced driver guides and an excellent Betchart naturalist.

Each passenger will have a window seat in safari vehicles. Typically, temperatures will be in the upper 70's to low 80's. This safari is a tremendous experience for travelers with an appetite for a safari adventure who can tolerate some insects, heat, and bumpy dirt roads for the lifelong experience of seeing the Eclipse and extraordinary parks and wildlife in Tanzania. There is some possibility the skies will be obscured by clouds during the Eclipse, but there are good prospects for excellent Eclipse viewing. (No smoking in vehicles, during lectures, or meals, please.)

Safari Fee Includes:

Land transport; group airport transfers; accommodations twin share with bath in first class hotels, lodges, and a classic safari camp; all meals in Tanzania; park entrance fees; baggage handling, leadership, administration.

Safari Fee Does Not Include: International air fare or in tour air fare (quoted separately); independent transfers; gratuities to safari driver-guides; Tanzania visa fees; personal items such as alcoholic beverages, laundry, phone calls, bottled water, sodas, snacks, passport, personal insurance, or foreign airport departure taxes.

Accommodations: Are in a first class hotel in Arusha and comfortable safari lodges. Near Mbeya, we will stay at a lodge

on a coffee plantation. We ask all travelers to share twin accommodations. If you do not have a roommate (and we cannot provide one), you must pay the \$995 extra cost of a single.

Air Fare & Airline Ticketing: Air fare quoted is with KLM from Washington Dulles to Amsterdam and Tanzania, RT, as of May 2015. Other gateway cities are available. Please inquire, phone **Marisa (800) 252-4910**. AIR FARES AND TAXES ARE SUBJECT TO CHANGE.

Optional Ruaha Extension: Please contact Marisa@betchartexpeditions.com for information about the Optional Extension to Ruaha National Park, Sept. 2-7, 2016.

Reservations, Deposits, & Payments:

Please mail a deposit of \$1,000 per person with the completed reservation form to:

**Tanzania Eclipse Safari 2016
Betchart Expeditions Inc.
17050 Montebello Road
Cupertino, CA 95014-5435**

The balance is due 150 days before departure (March 23, 2016).

Questions:

Please call **Marisa Eide**

Telephone: **(800) 252 4910** (USA)
or **(408) 252 4910** (International)
Fax: **(408) 252 1444**
Email: Marisa@betchartexpeditions.com

Cancellations & Refunds:

The initial deposit for the safari is refundable up to 150 days before departure less a handling fee of \$250 per person. There will be no refund for any cancellation after the 150 day period unless your place is resold; then only a \$250 per person handling fee applies. There are no refunds for unused meals, accommodations, or other trip features. Trip cancellation insurance will be offered.