Total Solar Eclipse
Chile & the Skies of the Southern Hemisphere

Meg Urry
Professor of Physics and Astronomy
Director, Yale Center for Astronomy and Astrophysics

June 25–July 6, 2019
Dear Yale Traveler,

On July 2, 2019, join Yale alumni and friends to witness a total solar eclipse at a unique location—the north of Chile, home to world-class astronomical observatories. In the company of Meg Urry, Professor of Physics and Astronomy at Yale and Director of the Yale Center for Astronomy and Astrophysics, enjoy special access to state-of-the-art observatories in the desert including: the Atacama Large Millimeter/sub-millimeter Array, also known as ALMA, the world’s most powerful radio telescope, Paranal, home to the Very Large Telescope, and Cerro Tololo, featuring a 4-meter telescope and two 1-meter telescopes run by Yale. Your journey also includes an exploration of the Atacama Desert with some of the most extraordinary landscapes of our planet—volcanoes, evaporated salt lakes, lagoons and hot springs as well as a host of animal life. Top this off with stargazing in the Southern Hemisphere. Visit the enchanted Elqui Valley, known for its beautiful landscapes and production of high-quality fruit and vegetables and tour a pisco factory. Conclude your adventure with lunch and a tasting of select vintages in Chile’s Maipo Valley wine-producing region.

Space for this program has already filled quickly, so call today to secure your place on the waitlist for a unique tour to witness a spectacular total solar eclipse as well as the remarkable observatories and natural history of northern Chile. We urge you to make your reservation today at www.yaledtravel.org/eclipse19. For questions or additional information, contact Yale Educational Travel at 203-432-1952 or edtravel@yale.edu.

Warm regards from Yale,

Weili Cheng ’77
Executive Director
Association of Yale Alumni

yaledtravel.org/eclipse19
MEG URRY is the Israel Munson Professor of Physics and Astronomy at Yale and Director of the Yale Center for Astronomy and Astrophysics and served from 2013-2017 in the presidential line of the American Astronomical Society. Professor Urry received her BS in physics and mathematics from Tufts University in 1977 and her PhD from Johns Hopkins University in 1984. Her scientific research focuses on active galaxies, which host massive black holes growing at their centers. She has published more than 280 refereed research articles on super-massive black holes and galaxies with over 20,000 citations. She is a Fellow of the American Academy of Arts and Sciences, the American Physical Society and American Women in Science, and a member of the National Academy of Sciences. She received an honorary doctorate from Tufts University, and the American Astronomical Society’s Annie Jump Cannon and George van Biesbroeck prizes. Prior to moving to Yale in 2001, Professor Urry was a senior astronomer at the Space Telescope Science Institute, which runs the Hubble Space Telescope for NASA. She is also known for her efforts to increase the number of women in the physical sciences, for which she won the 2010 Women in Space Science Award from the Adler Planetarium.

Upcoming Trips

Berlin: Art & Culture in the New Germany
October 18–25, 2018
Assistant Professor Jennifer Allen (History)

Dordogne
October 18–26, 2018
Professor Howard Bloch (French)

Morocco & the Canary Islands
November 3–14, 2018
Professor Jim Salzman ’85 (Environment)

Patagonia Expedition
November 3–15, 2018
Professor Paul Turner (Biology)
Itinerary

JUNE 25 TO JULY 6, 2019

Day 1: Tuesday, June 25
U.S. / SANTIAGO
Depart from your home city for Santiago, the capital of Chile. Overnight flight meals aloft.

Day 2: Wednesday, June 26
SANTIAGO
Arrive this morning in Santiago and transfer to your hotel. An afternoon city tour including a tour of the Pre-Columbian Museum will introduce us to this city at the foot of the Andes. This evening gather for an orientation and welcome dinner. Ritz Carlton D

Day 3: Thursday, June 27
SANTIAGO / CALAMA / SAN PEDRO DE ATACAMA
This morning fly north to Calama and transfer to San Pedro de Atacama for a three-night stay. On the way, we will pass through the Cordillera de la Sal, the Salt Mountains. Shaped over time by the rain, wind and sun of the Atacama Desert, its final form as we know it today is full of natural sculptures, different types of stratifications and varied colors due to its mineral diversity. In the afternoon, we visit the Moon Valley with its extraordinary landscape caused by the erosion of the Salt Mountains. Tierra Atacama B, Picnic L, D

Day 4: Friday, June 28
SAN PEDRO DE ATACAMA / ALMA / FLAMINGOS NATIONAL RESERVE
This morning visit the most complex astronomical observatory ever built, the Atacama Large Millimeter/submillimeter Array, or ALMA. While at ALMA (the operations facilities are located at 9,514 feet) we will visit the control room, laboratories, an antenna transporter and possibly antenna under maintenance. There may be an opportunity (pending additional permits and final confirmation) to visit the antenna installation. This visit will be optional and require participants travel from the base station laboratories to the Chajnantor Plateau located at 16,000 feet. Participants who wish to make this visit will need to be in excellent health. A medical release form (signed by your physician) will be mandatory. Additional information regarding the status of the antenna installation visit and the medical release form will be included in your pre-tour documents. In the afternoon, head close to the Chilean-Argentinean border to the Flamingoes National Reserve to see the Tuyacto Lagoon and the Salar de Aguas Calientes salt flats for breathtaking views and opportunity to observe flamingos and vicuña. Tierra Atacama B, L, D

Day 5: Saturday, June 29
SAN PEDRO DE ATACAMA
Morning excursion to bathe in Puritama Hot Springs, a series of eight large pools of geothermal spring water located at the bottom of a canyon in the Atacama Desert. Next, we’ll visit the Atacama Salt Flat (Salar de Atacama), the largest salt deposit in Chile and entry point to the National Flamingo Reserve. The reserve is home to a variety of birds, including the Andean flamingo, Chilean flamingo, horned coot, silvery grebe, Andean gull and greenish yellow finch. This evening, travel a short distance from town to the San Pedro de Atacama Celestial Explorations (SPACE), a privately-owned complex of telescopes designed to thrill you with views of the southern sky under the expert guidance of astronomer-owner Alain Maury or another staff astronomer. Tierra Atacama B, L, D

Day 6: Monday, June 30
SAN PEDRO DE ATACAMA / ANTOFAGASTA
Transfer by motor coach to Antofagasta. Afternoon at leisure. Hotel Terrado Antofagasta B, L

Day 7: Tuesday, July 1
ANTOFAGASTA / LA SERENA
Depart by motor coach to the Paranal Observatory (pending final confirmation), home of the ‘Very Large Telescope’ often described as the world’s largest. Located atop Cerro Paranal in the Atacama Desert, it has 4 telescopes of 8.2 meters in diameter. The Paranal Mountain was chosen because of its excellent atmospheric conditions and remote location. After touring the facilities, we’ll transfer to the airport for an afternoon flight to La Serena. Enjoy a city tour and transfer to our hotel. Diego de Almagro B, D

Day 8: Tuesday, July 2
LA SERENA / VICUÑA—ECLIPSE VIEWING SITE
This morning transfer outside La Serena by motor coach to the eclipse viewing site in Vicuña which is directly along the path of totality. Late in the day gather for your eclipse viewing party. Afterwards, return to the hotel. The maximum eclipse (mid-totality) commences...
approximately at 4:39 p.m. Transfer back to the hotel for a debriefing of the observations.

Diego de Almagro B, L, D

Day 9 : Wednesday, July 3
LA SERENA / ELQUI VALLEY
Morning excursion to the Elqui Valley known for producing high-quality grapes for pisco along with other fruits and vegetables. Enjoy a pisco tasting at a local distillery. Afternoon is at leisure.

Diego de Almagro B, L, D

Day 10 : Thursday, July 4
LA SERENA / CERRO TOLOLO
This morning visit the Cerro Tololo Interamerican Observatory which features a 4-meter optical telescope. The Yale-run Small and Medium Research Telescope System (SMARTS) Consortium operates two 1-m class telescopes on top of Cerro Tololo. Take a late afternoon or early evening flight back to Santiago.

Ritz Carlton B, Picnic L

Day 11 : Friday, July 5
SANTIAGO / SANTA RITA WINERY VISIT / U.S
Today we explore the beautiful valleys and wineries of Chile’s central region where renowned Chilean wines are produced. Later we’ll gather in the gardens of the historical Viña Santa Rita for a farewell lunch and wine tasting. Return to our hotel and the remainder of our afternoon is unscheduled before driving to the airport for our overnight flights home. Overnight Flight B, L

Program note: Chile will be a prime location to experience the Total Solar Eclipse. We will provide an optimal viewing location to experience this phenomenon. Please keep in mind that viewing the eclipse will be weather dependent. Since we have no control over the weather, there is always a chance that we will not be able to view it or view it only for a short period of time. Also, we will be visiting working observatories located in remote regions of Chile, so our schedule will rely on precise timings. Keep in mind that unexpected schedule changes could affect the program. Your Travel Director will keep you fully informed of any changes to planned activities. A sense of humor, flexibility, and patience will be greatly appreciated during this program and especially on eclipse day!

Day 12 : Saturday, July 6
ARRIVE U.S
Arrive U.S. and connect with flights home.

Optional Pre-Tour Extension to Easter Island
June 20–26, 2019
After an additional night’s stay in Santiago, depart the next morning for Easter Island (Rapa Nui). Located 2,600 miles west of Santiago in the South Pacific Ocean, this mysterious island has a visual impact few places in the world can equal. The island’s history is as intriguing as its natural beauty; for here is a remarkable barely-understood outdoor museum that has gripped the world’s imagination for centuries. Hundreds of moais, tight-lipped basalt statues unique in the whole of Oceania, are scattered throughout the island. Accommodations on Easter Island are at the Explora Rapa Nui, a truly high-end accommodation. The extension includes two nights at the Ritz Carlton in Santiago and three nights at the Explora Rapa Nui, all excursions, all meals while staying at the Explora Rapa Nui (including wine and an open bar), transfers, guides, and gratuities to staff at Easter Island. Airfare to Easter Island is not included. Rates are based upon a minimum of 10 guests.
WHAT IS INCLUDED
• Lectures & discussions with Yale Professor Meg Urry
• Accommodations and meals as specified in the itinerary
• Open bar at the Tierra Atacama
• Wine with included dinners and farewell lunch
• All land transportation
• Three in-tour flights from: Santiago to Calama, Antofagasta to La Serena, La Serena to Santiago, provided increases in the in-tour airfare after the initial pricing of this program are not included—see below

WHAT IS NOT INCLUDED
US domestic and international airfare • Flights for the optional pre-tour extension to and from Easter Island • Passport or Visa fees • Meals not specified in the itinerary • Personal items such as laundry, e-mail, wi-fi or telephone calls • Alcohol not included in program description • Room service • Excess baggage charges • Private transfers • Medical expenses • Travel insurance • Deviations from the scheduled tour • Any increases in the in-tour airfare (included as part of the main program cost), security, or fuel surcharges imposed after the initial pricing of this program are not included

WHAT TO EXPECT
This exclusive expedition is designed for Yale Alumni and friends who are interested in learning about the astronomy and experiencing a total solar eclipse as well as the wildlife, geology, and superb natural landscapes of northern Chile. Walks will be from one to two miles and at times over rocky, dusty, and uneven terrain and at high elevations. The pace of the walks will be leisurely. Some of the excursions in the Atacama Desert can reach (for a short time) altitudes of 14,000 feet. Visits to observatories are at the approximate elevations of 8,645 feet at Paranal, 7,200 feet at Cerro Tololo and 9,514 feet at the operations facilities of the Atacama Large Millimeter/submillimeter Array (ALMA). An optional visit (pending final confirmation) to the antenna instillation at ALMA at will be at 16,000 feet. All the hotels are located at what are considered comfortable elevations. Roadways can be narrow with steep ascents/descents and at times rocky, unpaved, and dusty. Drives can be up to four hours depending on the excursion. To enjoy this experience, participants must be in good physical and mental health, and be able to keep up with the pace of the group. There will be some stair climbing and some stairs may not have handrails. Program participants requiring extraordinary assistance must be accompanied by someone who can and will provide all required assistance. We describe this trip as relatively active. Travel is by jet aircraft and motor coach.

TIERRA ATACAMA BOTIQUE HOTEL & SPA
One of the most stylish hotels in the North, the Tierra Atacama is located on the edge of San Pedro de Atacama. The hotel's architecture, interior design and gardens were designed by some of Chile’s leading creative talent. Cool stone-floored rooms, featuring private terraces and open-air showers overlooking volcanos, mountain ranges, and aromatic gardens ensure private enjoyment of the wilderness. The spa has a picture-perfect infinity pool dropping into pampa grass with Volcan Lincancabur in the distance, and steam rooms, bubble beds in the heated indoor pool, and exclusive outdoor hot tubs that complete the water experience. Wi-Fi is located throughout the hotel. Common areas also include a TV lounge, excursions area, board games and terraces with fire pits. There is an open bar and the hotel’s restaurant incorporates local cuisine as well as international favorites.

Program Cost, per person
(based on double occupancy)

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<tr>
<th>Description</th>
<th>Cost</th>
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<tr>
<td>Land Program</td>
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<td>Single Supplement (Limited availability)</td>
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<tr>
<td>Easter Island Pre-Tour Extension</td>
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<td>Sample Coach Airfare: Santiago / Easter Island / Santiago</td>
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<td>(As of January 2018 and subject to change)</td>
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<tr>
<td>Rates for this extension are based on a minimum of 10 guests.</td>
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Enclosed is a deposit of _____ ($1,000 deposit per person, plus $300 for the Easter Island extension, if applicable) to hold _____ place(s) on the Total Solar Eclipse: Chile and the Skies of the Southern Hemisphere. A second deposit of $2,000 per person is due by check by November 1, 2018. Final Payment is due February 25, 2019 by check.

1) NAME AS ON PASSPORT

DATE OF BIRTH

YALE AFFILIATION

PASSPORT ORIGIN

RELATIONSHIP TO OTHER GUEST

2) NAME AS ON PASSPORT

DATE OF BIRTH

YALE AFFILIATION

PASSPORT ORIGIN

RELATIONSHIP TO OTHER GUEST

Contact Information

ADDRESS

CITY/STATE/ZIP

PRIMARY PHONE

SECONDARY PHONE

E-MAIL

To reserve, return to the above form with credit card authorization or check payable to “Royal Adventures” to Yale Educational Travel, P.O. Box 209010, New Haven, CT 06520-9010.

Phone: (203) 432-1952. Fax: (203) 432-0587. Or visit www.yaleedtravel.org/eclipse19 to book online.

RESERVATIONS, DEPOSITS & FINAL PAYMENT: To reserve a space on this tour, please mail a deposit of $1,000 per person plus $300 per person for the Easter Island pre-tour extension, if applicable, payable to “ROYAL ADVENTURES,” along with the completed reservation form to: Yale Educational Travel, Association of Yale Alumni, P.O. Box 209010, New Haven, CT 06520-9010 or Fax to (203) 432-0587. Reservations are acknowledged in order of receipt. A second deposit of $2,000 per passenger will be due on or before November 1, 2018. Initial deposits may be charged to a credit card. All subsequent payments must be made by check payable to “Royal Adventures.” Please fill out and mail, e-mail or fax the registration form. Reservations are acknowledged in order of receipt. Final payment is due February 25, 2019, 120 days prior to departure and must be paid by check. Royal Adventures handles all invoicing. CST #2009579-40

CANCELLATIONS AND REFUNDS: Cancellations must be made in writing to Yale Educational Travel. Cancellations within 14 days of booking: full refund; cancellations within 120 days prior to departure are subject to 100% penalty of all deposits and payments, regardless of booking date. There are no refunds for unused meals, accommodations or other trip features.

ITINERARY AND COST ADJUSTMENTS: The itinerary as presented is subject to modification by Yale Educational Travel and the tour operator, should unforeseen world events and conditions require such alterations for the safety and best interest of the group. Any extra expenses incurred in this situation are the responsibility of the participant. If there are significant changes, we will notify participants in advance of departure.

INSURANCE: Yale Educational Travel highly recommends that participants purchase trip cancellation insurance as the cancellation penalty in this brochure will apply. However, Yale does not recommend a particular insurance company. Yale travelers are free to purchase the insurance of their choice. Most travel insurance must be purchased within 7-10 days of paying a deposit in order to include certain provisions including pre-existing conditions. Neither the Association of Yale Alumni nor Royal Adventures accept liability for any airline cancellation penalty incurred by the purchase of a non-refundable airline ticket or other expenses incurred by tour participants in preparing for the tour. The air ticket when issued shall constitute the sole contract for air transportation between the passenger and the airline concerned.

RESPONSIBILITY: Royal Adventures, its owners and employees act only as agents for the various independent suppliers and contractors providing transportation, hotel accommodations, restaurant and other services connected with this tour. Such travel and services are subject to the terms and conditions under which such accommodations, services and transportation are offered or provided, and the Association of Yale Alumni and Royal Adventures and their respective, employees, agents, representatives, and assigns, accept no liability therefor. The Association of Yale Alumni and Royal Adventures, assume no liability for any injury, damage, loss, accident, delay or other irregularity which may be caused by the defect of any aircraft or vehicle or the negligence or default of any company or person engaged in carrying out or performing any of the services involved. Additionally, responsibility is not accepted for losses, injury, damages or expenses of any kind due to sickness, weather, strikes, local laws, hostilities, wars, terrorist acts, acts of nature or other such causes. All services and accommodations are subject to the laws of the country in which they are provided. The Association of Yale Alumni and Royal Adventures reserve the right to make changes in the published itinerary whenever, in their sole judgment, conditions warrant, or if they deem it necessary for the comfort, convenience or safety of the tour participants. They reserve the right to withdraw this tour without penalty. The right is also reserved to decline to accept or retain any person as a member of the tour, or to substitute another qualified leader or special guest. Baggage and personal effects are the sole responsibility of the owners at all times. The price of the program is given in good faith based on current tariffs and rates and is subject to change. Any tariff, exchange rate, airfare, or fuel increases will be passed onto participants. Because the total solar eclipse will be weather dependent, there is always a chance that passengers will not be able to view it or view it only for a short period of time. Neither Royal Adventures nor the Association of Yale Alumni make any guarantees as to the viewing of the total solar eclipse. As part of the consideration and right to participate in this tour, each participant will be asked to sign a liability release.

Payment Options

- Pay by check made out to “Royal Adventures”
- Please charge the deposit of $_____ per person to: AMEX Visa MasterCard Discover Card

CARD #

NAME AS IT APPEARS ON CARD

Roaming Preferences

- I wish to have a single accommodation (limited availability; please call)
- I will share accommodations with

- I/We will join the optional pre-tour extension to Easter Island

I/We have carefully read the Terms and Conditions and Responsibility sections of this brochure and agree to their terms on behalf of myself and of my party named above.

SIGNATURE

DATE

SIGNATURE

DATE
Total Solar Eclipse
Chile & the Skies of the Southern Hemisphere

Meg Urry, Professor of Physics and Astronomy
Director, Yale Center for Astronomy and Astrophysics

June 25–July 6, 2019

Highlights

Observe the 2019 Total Solar Eclipse at a special viewing site outside La Serena, Chile.

Go behind-the-scenes at some of the most advanced and largest observatories in the world with special entry to the Atacama Large Millimeter/submillimeter Array (ALMA), Paranal, and Cerro Tololo Observatories (pending final confirmation).

Explore dazzling night skies with large amateur telescopes in the Atacama Desert.

Relax in thermal springs in the Atacama Desert.

Enjoy the dramatic scenery of the Andean north with its unusual wildlife, including the Andean flamingo, vicuña, and vicacha.

Visit the Elqui Valley, an oasis in a very arid landscape.

Tour a Pisco distillery, spend a day in Chile’s wine country, and tour Santiago with a visit to the premiere Pre-Columbian Museum of Art.