

SEMINARS

Tupper Center Auditorium

Tuesday, November 20, noon seminar speakers will be John and Terese Hart, Wildlife Conservation International.

Forest dynamics and monodominance in the Ituri Forest, Zaire.

Abstract:

African tropical forests differ from those of the Neotropics in the abundance and diversity of large ungulates that they contain. This fauna is dominated by frugivores. Folivores generally favor more open habitats such as forest edge. The okapi, a short-necked rainforest giraffe found in northeastern Zaire, is the only large ungulate folivore that has succeeded in occupying the forest interior. Factors affecting preference and palatability of forest foliage for okapi will be presented. The okapi's use of the foliage resources is related to sex and age differences in use of space. These differences are discussed with reference to data on browse availability and use, and results of enclosure experiments. The importance of food limitations in okapi use of space is evaluated vs leopard predation.

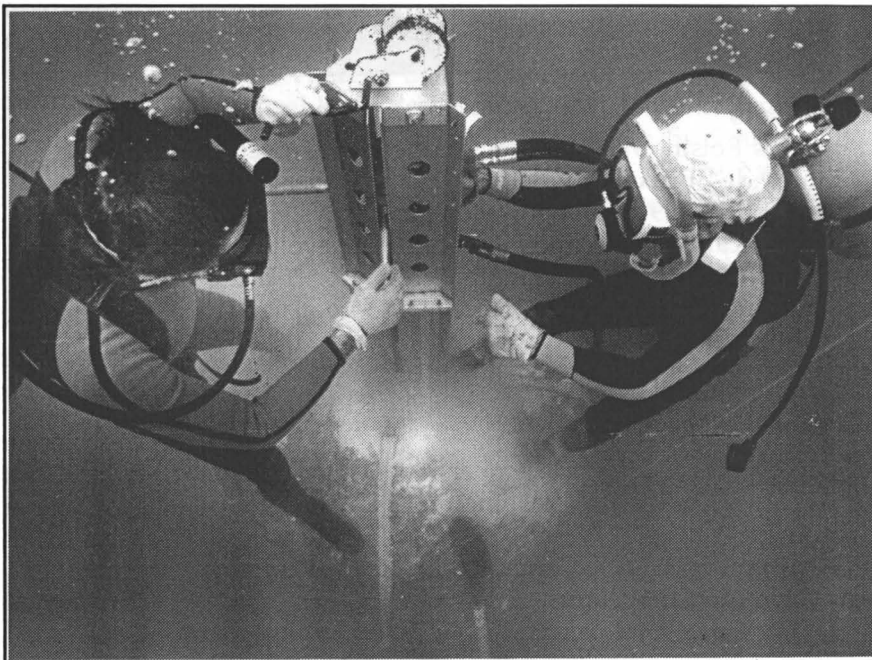
Next Week

Tuesday, November 27, noon seminar speaker will be Allan Herre, University of Illinois.

The biology of nematode parasites of fig wasps.

UPCOMING EVENTS

- Thanksgiving Day, November 22, is a STRI Holiday.
- The Scientific Staff Meeting will be on Tuesday, November 20, at 9:30 a.m.



Hector Guzmán (right) and his assistant, Carlos Jiménez (left), are using a hydraulic drill designed at STRI to obtain cores from corals at the Galeta Lab as part of an innovative study. --- Hector Guzmán (derecha) y su asistente, Carlos Jimenez (izquierda), usan un taladro hidráulico, diseñado en STRI, para obtener muestras de corales en Galeta, como parte de un estudio innovativo. (Foto: C. Hansen)

Research at STRI

Coral skeletons can give a wealth of information about their growth, past and present incidents of stress, and to some extent the history of the environment, such as oil spills, storms, and floods, in which they live. Growth rates can be determined from the width of annual growth bands using x-ray techniques. The history of injuries to the coral colonies and the amount of sediments and coastal rainfall and runoff may be recorded and dated from such growth bands.

Hector Guzmán, a scientist from the Oil Spill Project, has been drilling coral colonies with a hydraulic drill designed at STRI to obtain 1m long cores from the Galeta area. Coral cores are cut into longitudinal slabs, 5-7 mm thick, using a rock saw. X-rays of the specimens are taken and used to measure coral growth bands with a video image process that allows analysis by computer. Using oxygen isotopes he will be able to determine paleotemperatures and salinities. Natural fluorescent bands indicate runoff, sedimentation and flooding. The result of this research will be a detailed environmental history of the study area for the past 200 years.

Hector Guzmán thanks his collaborators--Carlos Jiménez, Alberto León, Axioni Romero and all the staff at Galeta Lab for their valuable assistance.

PEOPLE

Arrivals

- Yves Roisin, STRI Postdoctoral fellow, Université Libre de Bruxelles, Belgium, November 26 - September 1991, to work on caste systems in neotropical Nasutitermitinae: ecology & evolution.
- Alun Anderson, Washington editor for "Nature" Magazine, November 26 - December 3, to visit STRI facilities and interview various members of the STRI staff.

Departures

- November 22 - December 5, Leonor Motta, Executive Officer, to Washington, D.C., on official business.
- November 25 - 29, Carlos Urbina, to Washington, D.C. on official business.

On Leave

- Roxana Duran, November 23 - 30
- Maria Lorena Ossa, November 23 - December 7

THINGS YOU SHOULD KNOW

7 Congreso Científico Nacional

Universidad de Panamá, 21-23 noviembre
Biblioteca Simon Bolivar, Salón Ricardo Miró.

El jueves, 22 de noviembre, expondrán las siguientes personas de STRI:

- 8:20-8:40, Adalberto Gómez, Biología de los higos *Ficus citrifolia* y *F. obtusifolia*.
- 10:40-11:00, Juan Diego López, Observaciones biológicas en el periodo reproductivo y temprano desarrollo del *Tylosurus acus pacificus* (Piscis, Belontiidae), en el Parque Nacional Natural de Isla Gorgona, Oceano Pacífico Colombiano.
- 11:00-11:20, Jose Luis Machado, Steven Mulkey, Alan Smith. Fotosíntesis de dos fenotipos de hojas de un arbusto del sotobosque en el bosque tropical húmedo.
- 11:20-11:40, Kevin Hogan, Solby Chavarria, Angel Saavedra, Alan Smith. Ecofisiología geográfica de un arbusto del sotobosque.
- 11:40-12:00, Solby Cheverria, Mirna Samaniego, Kevin Hogan, Alan Smith. Una vista desde arriba: El Dosel del Bosque Tropical.

- 12:00-12:20, Roberto Ibañez. Comportamiento vocal de la rana de cristal *Centrolenella granulosa*.

Reminder--Aviso

Scientific collection and research carried out throughout the Republic of Panama, including national parks, with the exception of Barro Colorado Nature Monument (BCNM), requires a permit from INRENARE. The export of dead or live specimens collected throughout Panama, including the BCNM, also requires a permit. Permits are processed by Maria Morello, Visitors Services Office, Tupper Building.

Las colectas e investigaciones científicas efectuadas en todo el territorio de Panamá, con la excepción del Monumento Natural de Barro Colorado, requieren un permiso de INRENARE. Las exportaciones de especímenes vivos o muertos, colectados en territorio panameño, incluyendo el Monumento de Barro Colorado, necesitan un permiso de exportación. Estos permisos se procesan por medio de María Morello, Oficina de Visitantes, Edificio Tupper.

Last Minute News--Noticias de Ultima Hora

Federal employees health benefits open season is November 13 through December 10, 1990. Contact the STRI Personnel Office for assistance. Brochures for the Panama Area Benefit Plan are now available in the Personnel Office for review.

Temporada abierta de beneficios médicos para empleados federales es del 13 de noviembre al 10 de diciembre. Para asistencia llamar a la Oficina de Personal de STRI. La Oficina de Personal ya tiene panfletos del Panamá Area Benefit Plan para consulta.

ANNOUNCEMENTS

Mini-Bookstore New Arrivals

The Mini-Bookstore has received a new shipment of 1991 calendars and more STRI T-shirts.

Assistants Available

■Garth Fuller is interested in working in exchange for his cost of living expenses. Field work experience includes work with microtine rodents and temperate insectivorous bats. Mr. Fuller has also worked on several laboratory projects in molecular genetics, using primarily restriction fragment length

polymorphisms. He was most recently employed at the Institute of Environmental Studies, University of Illinois, working on another molecular genetics study to fingerprint the DNA of a population of prairie voles in order to determine their breeding and dispersal behavior. (8302 Flower Ave., #2, Takoma Park, MD 20912. Tel: (301) 588-8220).

■ Jennifer Sarah Powers (Box 538, Reed College, 3203 SE Woodstock Blvd., Portland, OR 97202, Tel 503-771-9062) is interested in a position at STRI. She has an International Baccalaureate Degree 1985-1987 from United World College of the Adriatic, Via Trieste, Italy. Currently she is a senior biology major at Reed College, and will graduate in the spring of 1991 (G.P.A. 3.59). Her research experience includes two months at H.J. Andrews Experimental Forest and Oregon State University.

New Fortuna Publication

de Sousa, Francisca, Daniel Castillo y Fernando Arosemena. Agosto de 1990. *Evaluación del posible impacto ecológico sobre la fauna silvestre existente en el área del nuevo embalse del Proyecto Hidroeléctrico La Fortuna. Fase II. Primer informe de avance preparado para el Instituto de Recursos Hidráulicos y Electrificación. Vicerrectoría de Investigación y Postgrado de la Universidad de Panamá por Centro de Estudios de Recursos Bióticos, Panamá.*

Academic Positions Available

Nominations and applications are invited for the joint position of **Dean, School of Marine Science (SMS)**, and **Director, Virginia Institute of Marine Science (VIMS)**. The academic program offers M.A. and Ph.D. degrees in Marine Science, and the school has a regional, national, and international research programs. Nominations or, in the case of applicants, a letter of application, detailed resume, and names and addresses of at least three references, should be sent to:

Professor Robert J. Byrne, Search Chair
Virginia Institute of Marine Science
School of Marine Science
College of William and Mary
Gloucester Point, VA 23062

The search committee will begin reviewing applications by 1 December 1990 and continue the review and interview process until the position is filled. The preferred starting date for the position is 1 July 1991.

Fellowship Available

The Rainforest Alliance is now accepting applications for the Eliane Souza Edelstein Fellowship for Medicinal Plant Research in Brazil. Applications are due in the Rainforest Alliance office by 5:00 p.m., February 15, 1991.

The Eliane Souza Edelstein Fellowship supports research projects that devise or improve upon existing strategies for the sustainable cultivation, harvesting or processing of medicinal plants in Brazil. The research should benefit both tropical forest conservation and local communities. The fellowship provides a grant of \$15,000 (US) per year, for three years.

For more information contact:

The Rainforest Alliance
270 Lafayette St.
Suite 512
New York, NY 10012
Tel: (212) 941-1900
Fax: (212) 941-4986

Calendario Cultural

- El grupo Tablas presentará Maestra Vida, con música de Ruben Blades, texto de Raul Leis, musicalización de "Tropical Swit", espacio escénico de Bruce Quinn y dirección general de Norman Douglas, a partir del 15 de noviembre.
- El Teatro en Círculo presenta la obra Los Japoneses No Esperan, del argentino Ricardo Telesnik y con la actuación de Leo Wiznitzer, Anina Ahorta y Carolina Hall.
- Del 14 al 18 de noviembre se presentará el ballet Folklórico "Panamá, Música y Danza" en el Teatro Nacional, a las 8:30 p.m.

FROM OTHER SOURCES

Conservation Begins at Home

Taken from the Harper's Index, May 1990

Amount of trash left in New York City's Central Park by people attending Earth Day festivities, in tons: 100.



Dr. Smith (not shown) and Ms. Perry (center) visited the STRI facilities and discussed plans for the expansion of the STRI Library during their stay. On November 14, they attended a tea reception to meet the STRI staff (shown here). -- La Dra. Smith y la Sra. Perry (centro) visitaron las instalaciones de STRI y discutieron los planes para la expansión de la biblioteca durante su estadía. El 14 de noviembre se les ofreció un té de bienvenida donde conocieron al 'staff' de STRI (foto abajo). (Foto: C. Hansen)

Last week was the first time Dr. Barbara Smith (center), Director of the Smithsonian Institution Libraries, and Ms. Bonita Perry (not shown), new Assistant Director of Research Services for the SI Libraries, visit STRI in Panama. -- La semana pasada fue la primera visita de la Dra. Barbara Smith (centro), directora de las Bibliotecas de la Institución Smithsonian, y la Sra. Bonita Perry, nueva directora asistente de Servicios de Investigación de las Bibliotecas del Smithsonian, al STRI en Panamá.

(Foto: C Hansen)



STRI LIBRARY NEW BOOK LIST

Advances in neotropical mammalogy (KH Redford & JF Eisenberg, 1989) QL725.A1A38 1989X STRI.
 Ancient Chalcatzingo (DC Grove, ed., 1987) F1219.1.M64A53 1987X STRI.
 Archaeology : discovering our past (RJ Sharer & W. Ashmore, 1987) CC165.S44 1987X STRI.
 Archaeology and language : the puzzle of Indo-European origins (C. Renfrew, 1987) P525.R46 1987X STRI.
 The Ants (B. Holldobler & EW Wilson, 1990) QL568.F7H57 1990X STRI.
 The Curacao Lava Formation : an ophiolitic analogue of the anomalous thick layer 2B of the mid-Cretaceous oceanic plateaus in the western Pacific and central Caribbean (GT Klaver, 1987) QE685.K63 1987 STRI.
 Demain les oiseaux (AW Diamond ... [et al.], 1989) QL676.5.D36 1989 STRI.
 Dwellings : the house across the world (P. Oliver, 1987) NA7125.O44 1987X STRI.
 Evolution, systematics, and fossil history of the Hamamelidae, v.1 & v.2 (PR Crane & S. Blackmore, eds., 1989) QK495.A12E96 1989X STRI.
 Exploiting the tropical rain forest : an account of pulpwood logging in Papua New Guinea (D. Lamb, 1990) SD657.P26L36 1990X STRI.

The Fishery resources of Pacific islands countries. Part 2, Holothurians (C. Conand, 1990) QL384.H7C74 1990 STRI.
 Genetic data analysis : methods for discrete population genetic data (BS Weir, 1990) QH438.4.S73W45 1990X STRI.

A Handbook of Malesian mosses, v.1 & v.2 (A. Eddy, 1988-) QK533.84.M35E213 1988 STRI.
 The Healing forest : medicinal and toxic plants of the northwest Amazonia (RE Schultes & RF Raffauf, 1990) QK99.A47S38 1990X STRI.

Illustrated bibliographical catalogue of the Synapsida, pt.2 (AS Brink, comp., 1982-) QE861.I29 1982 STRI.
 Molecular systematics (DM Hillis & C. Moritz, eds., 1990) QH83.M665 1990X STRI.

Plant viruses, v.1 (CL Mandahar, ed., 1989-) QR351.P584 1989X STRI.
 Scanning electron microscopy in taxonomy and functional morphology (D. Claugher, ed., 1990) QH83.S32 1990X STRI.

Semiochemistry--flavors and pheromones : proceedings (American Chemical Society. Symposium (1983 : Washington, D.C.), 1985) QP572.P47A44 1983X STRI.
 Sessile animals of the sea shore (VA Harris, 1990) QL121.H35 1990X STRI.

Structure and dynamics of earth's deep interior (DE Smylie & R. Hide, eds., 1988) QE509.I56 1988X STRI.
 A Survey of the normal and pathological histology of scleractinian corals with emphasis on the effects of sedimentation stress (EC Peters, 1984) QL377.C5P48 1984 STRI.