

DARTMOUTH STUDIES IN TROPICAL ECOLOGY 2003

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2003

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SCHEDULE FOR DARTMOUTH'S TROPICAL BIOLOGY PROGRAM - COSTA RICA, WINTER 2003

		<u>Morning</u>	<u>Afternoon</u>	<u>Evening</u>
5 Jan Su	To San Jose	Travel	Travel	Arrive in evening
6 Jan	In San Jose	Serpentarium, OTS	Shopping, etc.	Dinner in SJ
7 Jan	To Palo Verde	Travel	Orientation	Lec: Intro to Trop. Ecol.
8 Jan	At Palo Verde	Orientation	20 questions	Lec: Primate ecol/beh
9 Jan	At Palo Verde	FP-1 (ant-acacia)	Stat lab/computer lab	Data analysis
10 Jan	At Palo Verde	FP-2	Insect lab	FP-1 reports
11 Jan	At Palo Verde	FP-2	Vertebrate lab	Lec: Herps
12 Jan Su	At Palo Verde	Comp. project	Plant lab/SIFP plan.	Data analysis/writing
13 Jan	At Palo Verde	SIFP-1	SIFP - 1	FP-2 reports
14 Jan	At Palo Verde	SIFP-1	Data analysis	Lec: Conservation Issues (Gonzalez)
15 Jan	At Palo Verde	Recon.	Data analysis	SIFP-1 reports
16 Jan	To Santa Rosa	Travel/walk	Orientation	Disc: Turtle Biology
17 Jan	At Santa Rosa	Field (mangroves)	mangrove ecology	Field
18 Jan	To Monteverde	Walk	Travel	Lec: Trop avian ecology
19 Jan Su	At Monteverde	Orientation	Orientation	Guest Lec: MV Env. Issues (Pounds)
20 Jan	At Monteverde	Comp. Project	SIFP-2 planning	Lec: Coevolution
21 Jan	At Monteverde	SIFP-2	Writing lab/SIFP-2	Guest Lec: Bat biology (Laval)
22 Jan	At Monteverde	Birdnet I/SIFP-2	SIFP-2	Field: bats
23 Jan	At Monteverde	Birdnet II/SIFP-2	Data analysis	SIFP-2 reports
24 Jan	At MV, to SJ	Recon	Travel to SJ	free
25 Jan	In SJ	free	free	free
26 Jan Su	To Cerro	Travel/Cerro	Orientation	Lec: Plant-animal interactions
27 Jan	At Cerro	Orientation	SIFP-3 planning	Lec: Avian social systems
28 Jan	At Cerro	SIFP-3	SIFP-3	Lec: Phytotelmata
29 Jan	At Cerro	SIFP-3	Data analysis	SIFP reports
30 Jan	At Cerro/to La Palma		Recon	Travel to La Palma
31 Jan	To Corcovado	Walk/orientation	Walk/orientation	Discussion
1 Feb	At Corcovado	Orientation	FP-3 ??	Lec: Social Insects
2 Feb Su	At Corcovado	FP-3	Data analysis	Report writing
3 Feb	At Corcovado	Comp. project	SIFP-planning	FP-3 reports
4 Feb	At Corcovado	SIFP-4	SIFP-4	Lec: Tropical streams
5 Feb	At Corcovado	SIFP-4	SIFP-4	Data analysis
6 Feb	At Corcovado	SIFP-4	Data analysis	Lec: Trop forest dynamics
7 Feb	At Corcovado	Recon	Data analysis	SIFP-4 reports
8 Feb	CV to Las Cruces	walk	travel	
9 Feb Su	At Las Cruces	Orientation	Plant taxonomy	Lec: Trop agric & forestry
10 Feb	At Las Cruces	Plant practicum	Recon	Report revisions
11 Feb	Las Cruces/to SJ	Travel to SJ	free	
12 Feb	To La Selva	Travel/Poas NP	Orientation	Lec: Intro to LaS (Matlock)
13 Feb	At La Selva	Orientation	Project planning	Lec: Soils/biogeochemistry
14 Feb	At La Selva	Comp Project	SIFP-5 proposals	Lec: guest (Clark)
15 Feb	At La Selva	SIFP-5	SIFP-5/Data anal.	Data analysis
16 Feb Su	At La Selva	SIFP-5	CP Data anal./writing	Report writing
17 Feb	At La Selva	SIFP-5	SIFP-5	Comp. Proj. reports
18 Feb	At La Selva	Agroecol. field trip	Data analysis	Data analysis
19 Feb	At La Selva	SIFP-5/data/write	Report writing/revis.	SIFP-5 reports
20 Feb	to San Jose	Recon	Travel	Dinner in SJ
21 Feb	Depart for Jamaica			

Orientation = becoming acquainted with new site
 Recon = Reconnaissance, time to explore site
 FP = field problems (staff initiated)
 SIFP = student initiated field problems

NOTE FROM THE EDITORS

This book is the culmination of the 2003 Dartmouth Foreign Study Program in Tropical Ecology. However, we see it as more than just a compilation of research projects written by fifteen Dartmouth students. These papers are the result of ten weeks of intense ecological study in Costa Rica and Jamaica. While rereading these papers, we were greatly impressed upon by the individual talents of each of our peers and by the many accomplishments achieved during the term. Our blood, sweat, and tears (literally!) went into each of these projects to make them a success. However, we were reminded that many people were there to help us along the way.

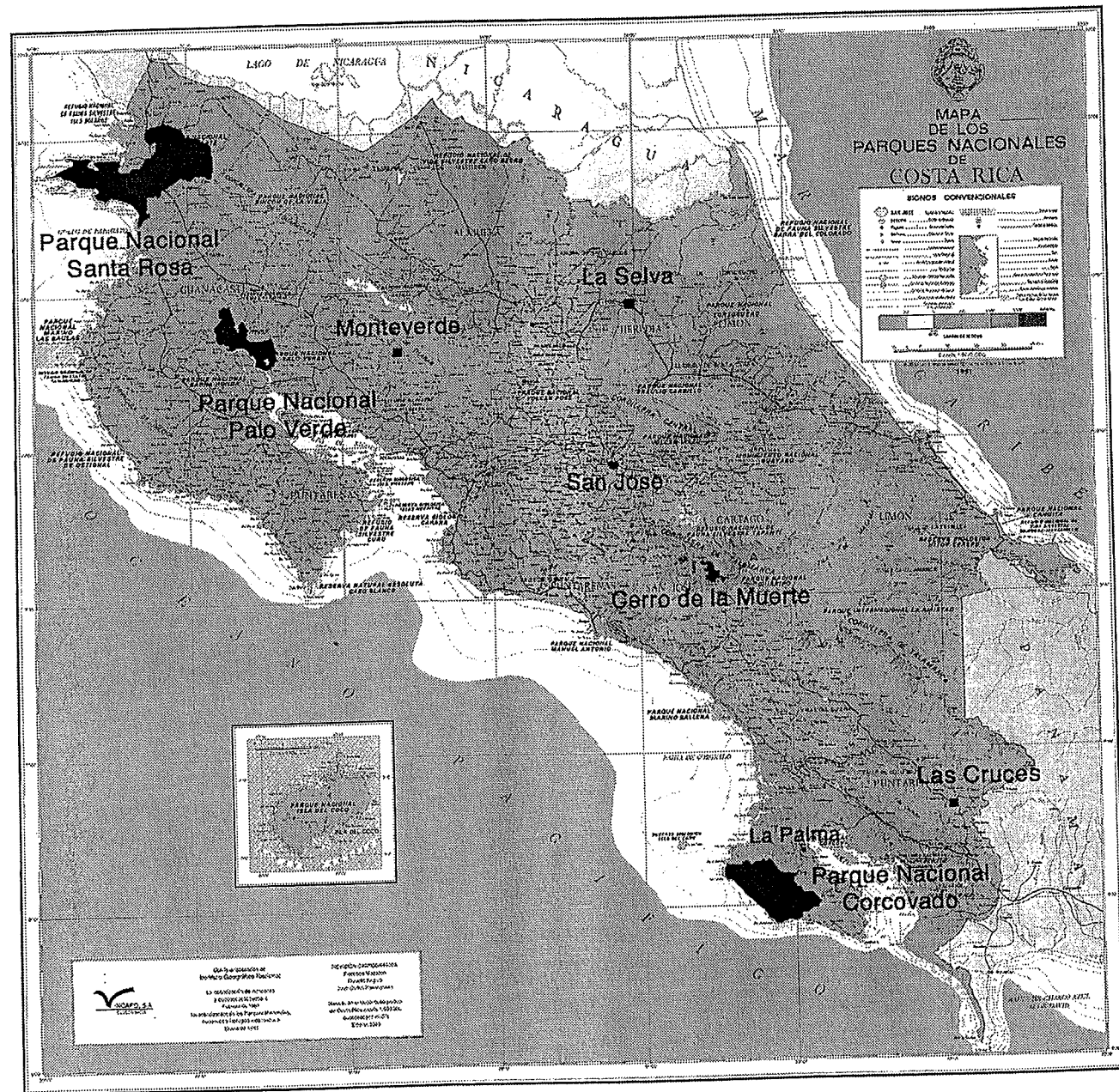
In Costa Rica, we would like to thank everyone at each field site for bestowing their knowledge upon us and making us feel at home. At Palo Verde, we thank Nicole Turner for her enthusiastic welcome and Dr. Eugenio Gonzalez for sharing the challenges facing the Rio Tempisque watershed. We thank the cooks at Santa Rosa for having hot chocolate and cookies waiting for us after long nights of turtle hunting. At Monteverde, the cooks and housekeeping staff treated us to wonderful meals and accommodations, Dr. Alan Pound gave us his thoughts on climate change and the forever lost golden toads, and Dr. Richard Laval provided us with the opportunity to get up close and personal with bats. Thanks to Carlos Solano in Cerro for his wisdom about plants, and for driving Mitch and David back to Santa Rosa in a time of great need. In Corcovado, thanks to the staff who kept us fed and well supplied with toilet paper, and to the volunteers who made sure we didn't miss a meal. At Las Cruces, Rodo toured us around the beautiful gardens, and we appreciated his knowledge and humor. In La Selva, Drs. Deborah and David Clark taught us about their research and conservation efforts in tropical forests, and Becky Bixby introduced us to the wide world of diatoms. We also would like to send generous thanks to the people of the Organization for Tropical Studies. Their field stations were top notch, and without them we would have never gotten around the country successfully.

In Jamaica, we would like to thank Dr. Peter Gayle for making us feel absolutely at home at the Discovery Bay Marine Lab, Anthony for being an excellent dive master, Mrs. Smiley for her yummy food and beautiful lemon meringue pies, and to Dalton and Robert for showing us a good time.

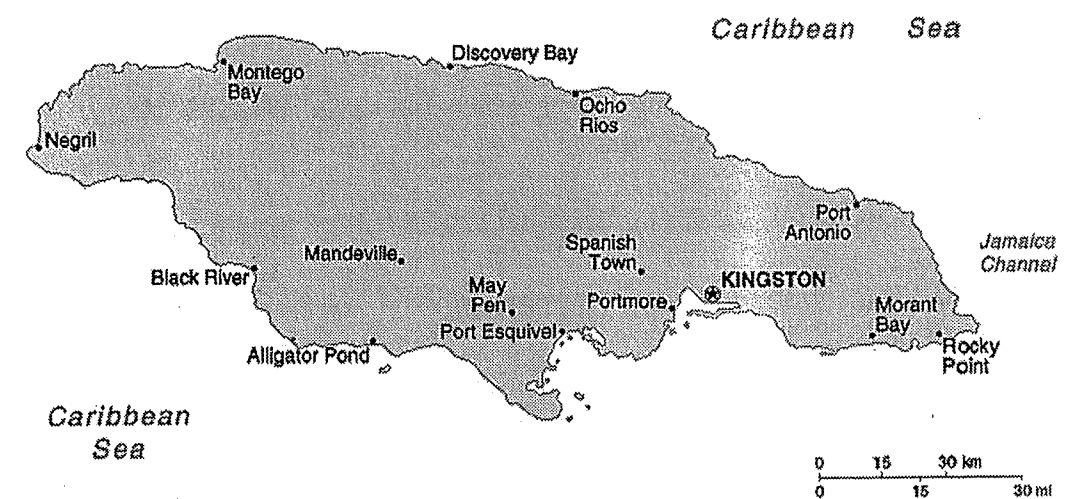
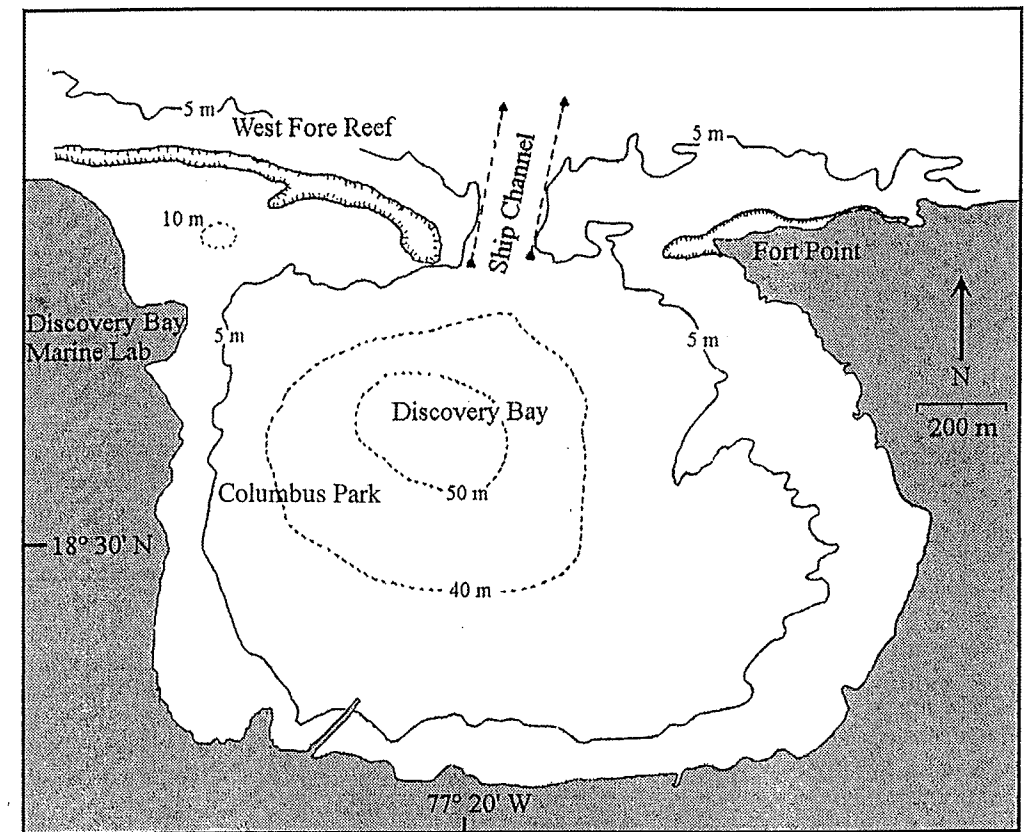
Finally, our professors, Dick Holmes, David Peart, and John Gilbert constantly amazed us with their knowledge and enthusiasm. We are extremely appreciative of their input and constant guidance. Our TA's, Jay Lennon and Pauline Roberts were invaluable to us as editors, computer repairmen, and grocery shoppers. We will all miss their support for our ideas, and most of all their friendship. Craig Layne, the true answer man, was there for us in every capacity. We appreciated his lectures about sea turtles and mangroves, leading our moonlit caiman hunts, and intense games of soccer. He has more energy than all of us put together, and has truly been invaluable in our Dartmouth ecology careers.

To all of the 2003 FSPers, we hope you read this book and remember not only the hard work that went into these projects, but also the experiences we shared together in these beautiful countries.

Gina and Kim



Adapted from Magallón, Florencio. 1994. Parques nacionales de Costa Rica / revisión cartográfica, Florencio Magallón, Claudio Segura, Juan Carlos Parreaguirre ; con la colaboración de Instituto Geográfico Nacional. INCAFO, S.A., Costa Rica.



Adapted from Twining, B. S., J. J. Gilbert, and N. S. Fisher. 2000. Evidence of homing behavior in the coral reef mysid *Mysidium gracile*. *Limnol. Oceanogr.* 45(8): 1845 - 1849; 2001 Jamaica (Small) CIA map.

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*The order of authors on each paper has been randomly determined by the editors.