

NATIONAL GAP ANALYSIS PROGRAM
Campus Conference Services
University of California
Santa Barbara, CA 93106-6120

UNIVERSITY OF CALIFORNIA
SANTA BARBARA
PRESENTS

8TH ANNUAL

National GAP Analysis Program Meeting

JULY 20-24, 1998

GAP

NATIONAL GAP ANALYSIS PROGRAM



 **USGS**
science for a changing world

Who Should Attend

This course is for those actively working on Gap Analysis Projects, as well as sponsors, cooperators, GAP data users and those intending to start a Gap Analysis Project in the near future. Day registrations are offered for those unable to attend the entire meeting.

Registration

Registration fee for this workshop is \$260 (\$300 after June 20) and includes refreshment breaks, Reception Monday Evening, Dinner Tuesday Evening, Luncheon on Wednesday and conference materials. See the registration for daily fees. To register, return the attached enrollment either by mail or fax (address and fax number are located on the bottom of the registration form).

Refund and Cancellation Policy: Requests for refunds are honored if received four full working days before the start of the course. However, substitutions are accepted at any time. The University may cancel or postpone any program because of insufficient enrollment or other unforeseen circumstances. If the course is canceled or postponed, the University will refund registration fees, but cannot be held responsible for any other costs, charges or expenses, including cancellation/change charges assessed by airlines or travel agencies.

Location and Lodging

The meeting will be held in the University Center at UC Santa Barbara. UC Santa Barbara Residence Halls and Dining Facilities are located within a 5-10 minute walk from the session meeting rooms and from the beach. Residence Hall accommodations are either single or double occupancy, with single rooms reserved on a first request basis. Lodging includes beds made on arrival day and daily room service with washcloth and towel change. Restroom and shower facilities are located on each floor. You may wish to bring along shower shoes as well as an alarm clock as our desk staff cannot provide a wake-up service. Phone service is available in each room. **You will need to bring your own phone instrument in order to utilize this service.** Phone lines are for local and credit card calls only. Should you forget to bring a telephone with you, the UCSB bookstore will have some available at a reduced cost for our summer conference attendees. The Service Desk of the Residence Hall will also take messages and post daily. If you would like to give out a number ahead of time where you can be reached it is (805) 893-2469.

A computer lab is also available in the Residence Hall so that you can access your email. Hours of availability will be posted outside the lab. Knowing the type of email server you have and the proper configuration parameters needed (email address, userid, password, server name or address) are all essential to accessing your email from the UCSB location. The computer lab provides standard Internet Services (Telnet, FTP, TN3207) and AOL.

The On-Campus Housing Plan includes five nights lodging (Sunday through Thursday night) and the following meals either in the **Dining Commons** or as *Special Events*: **dinner** Sunday evening; **breakfast and lunch** Monday and the *Opening Reception* at the University Center; **breakfast and lunch** Tuesday and a *Catered Dinner* in the Engineering II Courtyard; **breakfast, Catered Lunch** at the University Center and dinner Wednesday; **breakfast, lunch and dinner** Thursday; **breakfast** Friday morning.

An Early Arrival Package is available for Saturday night, July 18. The package includes lodging Saturday night, a Sandwich Bar from 6:30-8:30 pm that evening and a Continental Breakfast Sunday morning (7:00 am-9:00 am).

A Late Departure Package is available for Friday night, July 24. The package includes lodging Friday night, lunch and dinner in the Dining Commons Friday and breakfast Saturday morning. Check-out time Saturday is 9 am.

Off-campus Housing:

Blocks of rooms have been reserved, at special conference rates for the hotels listed below. Rates do not reflect a 10% tax and are for Sunday through Thursday evenings only; weekend rates will be higher. We encourage you to make your reservations early as rooms that are not picked up by June 18 will be released. You must identify yourself as a **GAP Conference Attendee** to receive the special conference rate. Bus service will be provided to and from campus to those hotels where indicated.

 (Bus Service provided)

PACIFICA SUITES
(805) 683-6722
5490 Hollister, Goleta, CA 93117
Rates: \$89 single; \$99 double

Closest to University (3-minute drive). Rate includes up to two complimentary cooked-to-order breakfasts, two rooms, two TVs, microwave, stereo, complimentary cooked-to-order breakfasts, two rooms, two TVs,

microwave, stereo, refrigerator, pool and Jacuzzi. Complimentary beverages served from 5-7 pm. With 24-hour advance notice, will provide shuttle service to and from the Santa Barbara Airport 7:30 am-7:30 pm.

 (Bus Service provided)

BEST WESTERN SOUTH COAST INN
(805) 967-3200
5620 Calle Real, Goleta, CA 93117
Rates: \$80 single/double

Just five minutes from the University. Morning and evening shuttle available to the UCSB Campus; please indicate your needs at hotel check-in. Santa Barbara Airport Shuttle provided from 7:30 am-10:30 pm. Continental Breakfast Buffet included as well as complimentary afternoon beverages from 5-7 pm. Pool, spa and free local calls.

 (Bus Service provided)

HOLIDAY INN
(805) 964-6241
5650 Calle Real, Goleta, CA 93117
Rates: \$84 single/double

Just five minutes from the University; beautifully renovated Spring 1996; full service restaurant; heated pool in palm garden setting. Holiday Inn's nationally recognized high service standards; complimentary airport shuttle between 6 am-10 pm.

(No Bus Service)

THE UPHAM VICTORIAN HOTEL AND GARDEN COTTAGES
(805) 962-0058
1404 De la Vina Street,
Santa Barbara, CA 93101
Rates: \$88

The quaint charm of a Bed and Breakfast located in the heart of downtown Santa Barbara. Complimentary Continental Breakfast and afternoon refreshments are provided.

Special Events & Useful Information:

Registration:

Registration will take place at the following times:

Monday, July 20	
University Center	1:00 pm-5:00 pm
Tuesday, July 21	
University Center	7:30 am-8:30 am

Opening Reception:

On Monday, July 20 beginning at 5:30 pm an Opening Reception will be held on the Lagoon Plaza at the University Center.

Banquet:

On Tuesday, July 21 a banquet will be held on campus in the Engineering II Courtyard. The exact time of this event will be noted in your confirmation material.

Field Trips:

MONDAY, JULY 20

California salt marsh ecology and restoration — Carpinteria Salt Marsh Reserve.

Limited to: 25; Cost per person: \$10

Plant and animal communities of Central Coastal California — Sedgwick Ranch Reserve.

Limited to: 50; Cost per person: \$10.

Santa Ynez Valley Winery Tour

(1:00-5:00 pm)

Enjoy a breathtaking drive from Santa Barbara through the Santa Ynez Mountains and over San Marcos Pass. There are many cattle and horse ranches, as well as vineyards that dot the countryside. We will visit Santa Barbara county's award winning wineries, one for a tour and tasting and another for a tasting only. Explore the old western town of Los Olivos, an enclave of art galleries, tasting rooms and small shops. Cost: \$41 per person.

FRIDAY, JULY 24

Channel Islands on a 60' Fishing Boat

(8:30 am-5:00 pm)

Enjoy a different perspective of Santa Barbara from the water aboard this 60' fishing boat. Santa Barbara is home to dolphins, porpoises, seals and sea lions. We will travel (by sail whenever possible) to Santa Cruz Island and tour the coastline (approximately 2 hours each way). The boat is equipped with a galley where food and beverage can be purchased. No coolers with beverages are allowed because of space limitations.

Cost: \$98 per person.

Hearst Castle, San Simeon

(8:30 am-5:00 pm)

Enjoy the spectacular drive to Hearst Castle, the monument created by William Randolph Hearst at a

The 8th Annual National Gap Analysis Program Meeting

REGISTRATION FORM & UNIVERSITY ACCOMMODATIONS

NAME: _____ Male () Female ()
 Last First Middle Initial

How would you like your name to appear on your name tag: _____

Mailing Address: _____

City State Country Zip or Country Code

Business Telephone _____ Fax _____ E-Mail: _____

Please indicate any special needs here: _____

I. REGISTRATION FEES — Includes Mon Reception, Tue Banquet, Wed Catered Lunch (Check One):

Full Registration	\$260	Full Registration	\$300
Day Registration (7/20)	\$80 (inc. Reception)	Day Registration (7/20)	\$90 (inc. Reception)
Day Registration (7/21)	\$100 (inc. Dinner)	Day Registration (7/21)	\$110 (inc. Dinner)
Day Registration (7/22)	\$80 (inc. Luncheon)	Day Registration (7/22)	\$90 (inc. Luncheon)
Day Registration (7/23)	\$70	Day Registration (7/23)	\$80
SUB-TOTAL (Registration):			I. \$

II. Guest Tickets for Tuesday Banquet:

Adult	# _____ @ \$50 each	SUB-TOTAL (Tuesday Banquet):	II. \$
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III. UCSB ACCOMMODATIONS AND DINING PACKAGES:

Adult (single room)	\$322.00	Adult (double room)	\$252.00
Rate/Person	x	No. of Persons	
Adult: Single	\$ _____ x _____	=	\$ _____
Adult: Double	\$ _____ x _____	=	\$ _____
I have selected a double room... please assign a roommate for me. I have selected a double room... my roommate will be: _____ Male () Female ()			
Early Arrival (Sat 7/18) Single: \$55; Double: \$41		_____ (Inc. Sandwich Bar Sat night; Continental Breakfast Sun morning)	
Late Departure (Fri 7/24) Single: \$68; Double: \$54		_____ (Inc. Lunch & Dinner Fri; Breakfast Sat morning; Check-out Sat 9 AM)	
SUB-TOTAL (UCSB Accommodation):			III. \$

IV. Parking (for off campus attendees only):

On campus parking for the week: \$15.00	SUB-TOTAL (Parking):	IV. \$
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V. Field Trips:

Monday, July 20	Carpinteria Salt March (\$10/psn)___	Sedgwick Ranch (\$10/psn)___	Santa Ynez Winery (\$41/psn)___
Friday, July 24	Channel Islands (\$98/psn)___	Hearst Castle/San Simeon (\$76/psn)___	
SUB-TOTAL (Tours/Excursions):			V. \$

TOTAL AMOUNT ENCLOSED (I + II + III + IV + V) = \$ _____

Payment Method: Personal/Bank Check [Check must be drawn on a U.S. Bank and made payable to U.C. Regents]
 Please charge to my credit card: MasterCard Visa American Express
 Credit Card # _____ Expiration Date: _____
 Signature: _____ Date: _____

Please complete & return this form together with your remittance to:
 Gap Analysis, Campus Conference Services, University of California, Santa Barbara, CA 93106-6120; Fax: (805) 893-7287;
 For further information on the conference, please visit the Gap Analysis website at: <http://www.gap.uidaho.edu/gap>

time when excess knew no limits. This lavish ediface allows a glimpse into another lifestyle and time, and offers a panoramic view that will take your breath away. Refreshments are provided on your deluxe motorcoach... and lunch will be enjoyed on your own in the picturesque village of Cambria.
 Cost: \$76 per person.

Useful Information:

Campus smoking policy: UCSB prohibits smoking in its buildings. Smoking will be allowed only in outdoor areas including breeze-ways and patios.

Americans with Disabilities Act: UCSB Campus Conference Services strongly supports the federal Americans with Disabilities Act (ADA) which prohibits discrimination against, and promotes public accessibility for, those with disabilities. In support of and compliance with this Act, we ask that those requiring specific equipment or services as an attendee of CVPR to indicate your needs on the registration form.

Dress:
 Casual clothing is in order with a sweater or light jacket occasionally needed for the evenings. UCSB is essentially a walking campus, so be sure to wear comfortable walking shoes.

About Santa Barbara:
 The city of Santa Barbara, founded by the Spanish in the 18th Century, is considered to be one of the jewels of the California coast. It lies approximately 100 miles northwest of Los Angeles, nestled against the Santa Ynez Mountains and over-looking the Pacific ocean. In July, the days are warm (70°) and the nights are normally cool (50-60°), with occasional morning fog. Nearby are many excellent ocean beaches, lakes forests, mountains with varied hiking trails, and such man-made attractions as the Hearst Castle, the flower fields of Lompoc, the Old World Danish Village of Solvang, the Santa Barbara Mission, Court House and other examples of Spanish architecture.

JULY 20th, MONDAY ≈ DAY 1

AFTERNOON

1:00-5:00 Registration and Poster set-up

Field Trips:

- 1:00-5:00 a) Santa Ynez Valley Winery Tour
- b) California Salt March Ecology and Restoration-Carpinteria Salt Marsh Reserve
- c) Plant and animal communities of central coast California-Sedgwich Ranch Reserve

Technical Demos:

- 3:00-3:30 Relational Database Design and Operation for GAP Implementation – James Gorham
- 3:30-4:00 Demonstration of MERGE – Steve Hartley
- 4:00-4:30 A Demonstration of the GAP Biological Decision Support System – Patrick Crist/Tom Kohley

EVENING

5:30-8:30 Social Mixer/Lagoon Plaza

JULY 21st, TUESDAY ≈ DAY 2

MORNING

- 7:30-8:00 Registration and Poster Session open
- 8:00-8:25 Welcome and Instructions by Frank Davis
- 8:25-9:00 Introduction by Mike Jennings
- 9:00-9:30 Keynote: Bill Stewart, Chief, Fire and Resource Assessment Program, California Department of Forestry and Fire Protection
- 9:30-9:45 Refreshment break
- 9:45-10:30 Oregon Biodiversity Project Overview- Sara Vickerman
- 10:30-10:45 Oregon Biodiversity Project CD-ROM Demonstration- Keith Hupperts
- 10:45-11:30 A Retrospective of AR-GAP: What We Learned During Our Journey – Don Catanzaro
- 11:30-11:45 GAP Data Distribution-Current Status – Patrick Crist
- 11:45-1:00 Lunch (on your own)

AFTERNOON

Concurrent Sessions:

(Room 1—Land Cover; Room 2—Applications & Results)

- 1:00-1:30 1. Adapting Eastern Vegetation Alliances for Use with Remotely Sensed Data – Charlie Yuill
- 2. Applications of GAP-Techniques to Describe

Scaled Quail (Callipepla squamata) Population Changes in Texas – Raquel Leyva

1:30-2:00

- 1. Developing a Land Use/Land Cover Map for the Mississippi Gap Analysis Program – Francisco Vilella
- 2. Using Gap Analysis to Develop Ecosystem Management Plans: The Northern and Eastern Colorado Desert Plan Case Study – Patricia Lock-Dawson

2:00-2:30

- 1. Application of the National Vegetation Classification to Vegetation Mapping in the Coastal Plain of North Carolina – Alexa McKerrow
- 2. Developing a Conservation Reserve Program Lands Mask for South Dakota GAP: Use of Multispectral Scanner Subsystem Data – Jon Jenks

2:30-3:00

Refreshment break

3:00-3:30

- 1. GAP Land Cover Mapping, Conventions, Challenges and Creativity – Marlen Eve
- 2. Development and Pilot Application for the California Urban and Biodiversity Analysis (CURBA) Model – Michael Reilly

3:30-4:00

- 1. Mapping Land Cover with 4-Meter Multispectral Satellite Imagery and Videography: A Pilot Study in Maryland – Ann Rasberry
- 2. Planning for Biodiversity: Applying Gap Analysis to County and Regional Land Use Planning – Matthew Stevenson

4:00-4:30

- 1. Accuracy Assessment of the New York GAP Land Cover and Ecological Communities Map - Steve DeGloria
- 2. A GAP Biological Decision Support System for County Land Use Planning – Patrick Crist/Tom Kohley

4:30-5:00

- 1. Montana Land Cover: The Good, The Bad, and The Ugly – Roly Redmond
- 2. Using GAP Analysis to do Preliminary Reserve Design for a National Wildlife Refuge – Forest Clark

EVENING

7:30-10:00 Banquet/ English II Courtyard
 Banquet Speaker: Rodger Schlickeisen, President, Defenders of Wildlife

JULY 22nd, WEDNESDAY ≈ DAY 3

MORNING

7:30 Poster Session opens

Concurrent Sessions:

(Room 1—Vertebrates; Room 2—Stewardship & Analysis; Room 3-International GAP)

8:00-8:45

- 1. Modeling Predicted Vertebrate Distributions in Missouri Based on Species Perceptions of Habitat and Landscape – Tim Haitthcoat
- 2. Spatial Variable Modeling Techniques and Possible Forest Bird Conservation Solutions Applied to a Mid-Atlantic Landscape – Rick McCorkle

8:45-9:30

- 1. a. 8:45-9:10 The Texas GAP Project: Status and Potential – Nick Parker
- b. 9:10-9:30 A Habitat Profile Database Application for the Texas Gap Analysis Project – Eric Holt
- 2. A Prioritized Method to Identify Unprotected At Risk Plant Communities in the Western U.S. – Jesse D'Elia

9:30-10:15

Refreshment break

10:15-10:45

- 1. Challenges in Modeling Spatial Variables for Forest Area– Dependent Birds in a Fragmented Landscape – Rick McCorkle/James Gorham
- 2. Missouri GAP Product Sensitivity Analysis with Regards to Spatial and Categorical Resolution – Tim Haitthcoat
- 3. Data, Models, Mapping and Reliability: Results and Questions from Canada – Daniel McKenney

10:45-11:15

- 1. Modeling Montana's Vertebrates: From Databases to Distribution Maps – Roly Redmond
- 2. Predicting Vulnerability of Regional Biota Based on Land Uses, Spatial Context, and Biotic Responses – Allan Hollander
- 3. Life Science Gap Analysis and Core Natural Heritage Area Selection in Ontario: An Iterative Approach – William Crins

11:15-11:45

- 1. An Evaluation of Species Distribution Edge-

Matching for the Mid-Atlantic GAP Region – David Morton

7:30

Poster Session opens

Concurrent Sessions:

(Room 1—Vertebrate Assessment; Room 2—Aquatic Component)

10:15-10:45

Session wrap-up

12:00-1:30

Luncheon (provided)/Lagoon Plaza

Luncheon Speaker: Ted Case, Professor, University of California, San Diego

AFTERNOON

Concurrent Sessions:

(Room 1—Vertebrate Assessment; Room 2—Aquatic Component)

1:30-2:00

- 1. Testing the Performance of Wildlife Habitat Relationship Models: Theory and Application – Nancy Wright
- 2. The Missouri Aquatic Gap Pilot Project: An Overview and Status Report – Scott Sowa

2:00-2:30

- 1. Accuracy Assessment of Vertebrate Distribution Models for GAP Program in Arizona – Charles Drost
- 2. Aquatic Gap-Next Steps – Pamela Haverland

2:30-5:00

Sign up individually to meet with Mike Jennings and Patrick Crist

Additional Sessions:

- 2:30-3:00 1. Mapping the Vegetation of Michigan circa 1800: Map Development and Selected Applications – Patrick Comer
- 2. Exploration of Mapping Alternatives for Gap Analysis in Pennsylvania – Wayne Meyers
- 3:00-3:30 Refreshment break
- 3:30-4:00 1. Missouri's Approach Toward Land Use/Land Cover Data Development – David Diamond
- 2. Gap Analysis for Plants: Which Species? – Bill Reiners

4:00-4:30

- 1. The Nature Conservancy's Aquatic Community Classification: A Framework for Freshwater Conservation – Mary Lammert
- 2. Applications of GAP Data and Findings in California – David Stoms/Frank Davis

4:30-5:00

- 1. To Be Announced
- 2. Reserve Siting Research at the National Center for Ecological Analysis and Synthesis – Frank Davis/David Stoms

JULY 23rd, THURSDAY ≈ DAY 4

MORNING

7:30 Poster Session opens

Concurrent Sessions:

8:00-12:00 Room 1: Regional Breakouts
 Room 2: Technical Demos

– Relational Database Design and Operation for GAP Implementation – James Gorham

– Demonstrations of the NBII Metadata Standard and MetaMaker – Sharon Shin/Jennifer Gaines

– Demonstration of MERGE – Steve Hartley

– CA CD-ROM Demonstration

10:15-10:45

Refreshment break

10:45-12:00

concurrent sessions continue

12:00-1:15

Lunch (on your own)

AFTERNOON

- 1:15-2:15 Invited Special Paper: Modeling Vegetation Structure Using Modern Regression Tools: Methods and Applications – Thomas Edwards, Jr.
- 2:15-2:30 Refreshment break

Concurrent Sessions:

(Room 1—PI/Coordinators Meeting; Room 2—Outreach Tools)

2:30-4:00

- 1. PI/Coordinators' Meeting with National Staff – State Coordinators please attend.
- 2:30-3:00 2. A Query/Analysis Tool for GAP Data – James Gorham
- 3:00-3:30 2. Technical Overview of AR-GAP CD-ROM - Don Catanzaro
- 3:30-4:00 2. If You Build It, They Will Come: Making NBII a Reality With GAP on the Web – Margo Herdendorf

4:00-4:15

Wrap-up by Mike Jennings

4:15-4:30

Closing Remarks by Frank Davis

EVENING

6:30 Poster Session closed

JULY 24th, FRIDAY ≈ DAY 5

MORNING

Field Trips
 a) Channel Islands
 b) Hearst Castle, San Simeon