

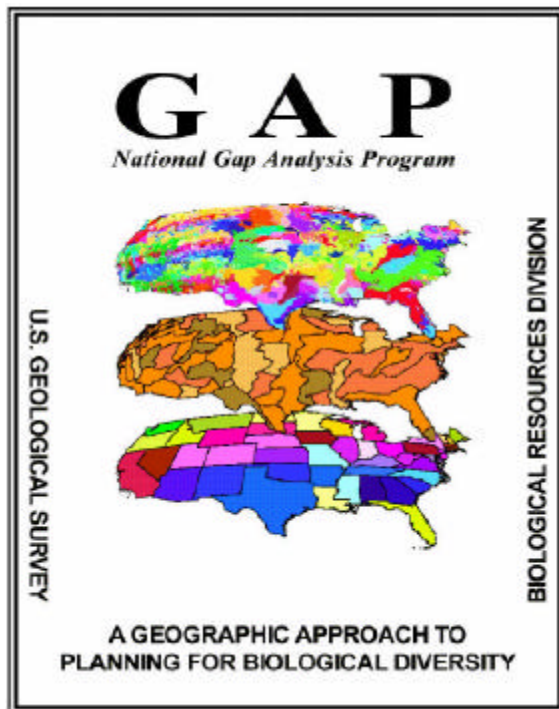
NATIONAL GAP 2000

10th Annual National Gap Analysis Program Meeting and Conservation Planning Symposium

Hosted by: Texas Tech University and Texas GAP

The first 10 years - The next 10 years

August 13-17, 2000
San Antonio, Texas



The National Gap Analysis Program Meeting will take place in San Antonio, Texas.

Who Should Attend:

This meeting is for those actively working on Gap Analysis projects, as well as sponsors, cooperators, and others using Geographical Information Systems for landscape analysis. Current and potential users of GAP data, such as state and federal agencies, developers, planners, conservation groups, and others involved in utilization or management of natural resources are encouraged to attend.

Registration:

The registration fee for this meeting is \$190 (\$225 after July 15th) and includes the special Conservation Planning Symposium, refreshment breaks, Sunday evening reception, Monday evening banquet, Tuesday luncheon, Tuesday social mixer, and conference materials. The registration fee for the Conservation Planning Symposium on Tuesday **only** is \$99 (\$120 after July 15th). See registration form for daily fees.

Refund and Cancellation Policy:

Requests for refunds are honored if received **ten** full working days before the start of the course. However, substitutions are accepted at any time. The Texas Cooperative Fish and Wildlife Research Unit may cancel the meeting due to insufficient enrollment or other unforeseen circumstances. If the meeting is canceled, the Texas Cooperative Fish and Wildlife Research Unit will refund registration fees, but cannot be held responsible for any other costs, charges, or expenses, including cancellation/change fees assessed by airlines, travel agencies, or hotels.

Dress:

San Antonio has a temperate climate - so you can count on clear blue skies, breezes, and sunshine virtually year-round. Average high temperature in August is about 96, the average low is in the mid-70s, and humidity is generally high.

Airports:

The San Antonio International Airport is located within 15 minutes, by shuttle or taxi, from the St. Anthony Hotel. Alternately, the Bergstrom International Airport at Austin is about 1 hour from the hotel. Airlines servicing the Austin and San Antonio airports are America West, American, Continental, Delta, Northwest, Southwest, TWA, and United.

Hotel:

Sleeping rooms are being held at the St. Anthony Hotel (210-227-4392). The cut-off date for making reservations is July 21, 2000. When making reservations, please identify yourself as being with the National Gap Analysis Meeting to get the special convention rates. The St. Anthony Hotel is located at 300 East Travis Street; the meeting rates are \$91, exclusive of taxes (single or double), \$116 (triple), and \$126 (quadruple). The hotel offers an indoor pool, spa, sauna, and complimentary continental breakfast.

Parking:

Parking fees are \$12/day for valet parking, and \$9/day for self-parking (available through the St. Anthony Hotel).

Aquatic GAP Symposium

This symposium brings together current GAP aquatic researchers and those from other agency and NGO aquatic programs to discuss progress to date and directions for the future. Topics presented include cutting-edge research on describing biodiversity in aquatic systems, methods for aquatic conservation assessment, and the need for a national standard for aquatic habitat classification. Speakers will discuss aquatic conservation across the full spectrum, from small watersheds and ecoregions to national and hemispheric perspectives. At this early stage in the development of Aquatic GAP, we are fortunate to have several agencies participating that are typical end-users of GAP products. They will present a discussion of their needs and applications for aquatic GAP products. The speakers include nationally recognized experts in aquatic biodiversity assessments and conservation.

Symposium: Conservation Planning for Biodiversity at Multiple Scales

Numerous biodiversity conservation programs and projects are conducted throughout the U.S. at a variety of scales, from multi-state regions to local landscapes. These efforts are little coordinated and have suffered from lack of base data on the distribution and status of biotic elements. This year marks the 10th year of operation for the Gap Analysis Program, which was initiated to provide the base information for reserve selection and planning. This also marks the first year of completion and release of data for a majority of the area of the conterminous 48 states. While this symposium is not limited to a discussion of GAP, it is our goal to demonstrate and discuss the role of GAP in biodiversity conservation planning at multiple scales.

This symposium will present the work of conservation planners at the ecoregion, state, and local jurisdiction scales. Speakers and the audience will participate in open discussions on the projects, problems, opportunities, and challenges of:

Data availability, quality, scale, and application

Theory and method for identifying reserve needs and Configurations

Representativeness of reserve recommendations for Biodiversity

Integration of planning recommendations among Scales and institutions.

Metadata Clinic

Are you wondering just what you are supposed to be doing about metadata? Do you have specific questions about software, deliverable format, or how to handle that special data set? The Metadata Clinic will be just the place for you to bring your metadata ailments. Ree Brannon (National Office) and Tom Sklebar (North Dakota GAP) will be on hand to answer questions and run diagnostics on available computers. Meet with us on Wednesday morning, from 8-11:00, or schedule one of us to visit your regional breakout session!

AGENDA

SUNDAY, August 13, 2000

AFTERNOON

1:00 - 5:00 Registration and Poster and Vendor Exhibit Set-up

Technical Demos & Workshops:

- 1:00 - 5:00 a. Kansas Modeling Software -- Jack Cully
- b. Self-Guided Demos

1:00 - 5:00 **Field Trips** - #1 and #2

EVENING

5:30-8:30 Social Mixer, Poster Review, and Vendor Exhibits

MONDAY, August 14, 2000

MORNING

7:30 - 8:00 Registration and Refreshments/Poster Session and Vendor Exhibits Open

8:30 - 8:45 Welcome and Instructions--Nick Parker

8:45 - 9:00 Introduction--Kevin Gergely & Denny Fenn

9:00 - 9:45 Texas Natural History: A Century of Change --David J. Schmidly

9:45 - 10:15 Refreshment break – Sponsored by SGI

10:15 - 10:40 Status and Prospects for Mexico GAP-- Gerardo Ceballos

10:40 - 11:20 Welcome Keynote--TBA

11:20 - 11:40 GAP: the First Ten Years--Mike Jennings

11:40 - 11:50 Introduction to Sessions--Patrick Crist

11:50 - 1:15 Lunch (on your own)

AFTERNOON

Concurrent Session 1: Aquatic Symposium

1:15 - 1:45 Challenges and Opportunities for Biodiversity Assessments in Aquatic Environments --Scott Sowa

1:45 - 2:15 Landscape Indicators of Aquatic Habitat and Ordination by Habitat Availability-- Wayne Myers

2:15 - 2:45 Role of Classification in Establishing Bioassessment--Steve Paulsen

2:45 - 3:15 Refreshment break – Sponsored by SGI

3:15 - 3:45 A Proposed Ecosystem and Habitat Classification System for United States Marine and Estuarine Waters--Rebecca Allee

3:45 - 4:15 Conservation Planning for Aquatic Biodiversity: Experience from the Nature Conservancy's Freshwater Initiative-- Jennifer Perot

4:15 - 4:45 A Conservation Assessment of the Freshwater Ecoregions of North America-Robin Abell

4:45 - 5:15 Conceptual Gaps in the Conservation of Aquatic Biodiversity: Perspectives from Virginia--Paul L. Angermeier

Concurrent Session 2: Land Cover and Animal Distribution Modeling

1:15 - 1:35 a. The Land Use History of North America

- Program (LUHNA)--Tom Owens
 b. USGS-NPS Vegetation Mapping Program--Tom Owens
- 1:35 - 1:55 An Overview of MRLC 2000--Collin Homer
 1:55 - 2:15 The Development of Mapping Zones to Assist in Land Cover Mapping Over Large Geographic Areas: A Case Study of the Southwest Gap Analysis Project--Douglas Ramsey
- 2:15 - 2:35 New Techniques for Mapping Urban Sprawl in the Southeast--Jeanne Epstein
 2:35 - 2:55 A Comparison of First and Second Generation Gaps--Jason Karl
- 2:45 - 3:15 Refreshment break – Sponsored by SGI**
 3:15 - 3:35 Developing Predictive Range Maps of Rare Plant Species in Wyoming--Walter Fertig
 3:35 - 3:55 Land Cover Change Detection in Florida and Application to the Florida Panther Habitat Model--Randy Kautz
 3:55 - 4:15 Vegetation or Vertebrate Time Scale? Incorporating Vegetation Structure into Remotely Sensed Vertebrate Modeling--Rich Minnis
 4:15 - 4:35 Putting the Pieces Together: A Rangewide Perspective of Vertebrate Distribution Modeling with GAP Data--Ree Brannon
 4:35 - 4:55 Electronic Development, Review, and Delivery of Vertebrate Distribution Models at Kansas GAP--Jack Cully
 4:55 - 5:15 Changes in Black-Tailed Prairie Dog Towns on the Texas Panhandle Determined by GIS--Andrea Ernst
- EVENING**
 5:15 - 6:00 Poster Review (with authors available) and Vendor Exhibits
 7:00 - 9:00 Banquet
 8:00 - 9:00 Banquet Presentation: Bop Gap 'Til You Drop: Applying Gap Analysis to Global 200 Ecoregions--Eric Dinerstein, World Wildlife Fund

TUESDAY, August 15, 2000

Conservation Planning Symposium (see following page, you must be preregistered to attend the symposium)

General GAP Sessions: Bioinformatics and Decision Support

MORNING

- 7:30 - 8:00 Refreshments/Poster Session and Vendor Exhibits Open
 8:00 - 8:20 The National Spatial Data Infrastructure--TBA
 8:20 - 8:40 The National Biological Information Infrastructure--TBA
 8:40 - 9:00 A Resource Management Decision Support System for the Upper Mississippi River System--Carl Korschgen
 9:00 - 9:20 Classification and Optimization in Land Use Planning Algorithms--Karen Payne
9:20 - 10:00 Refreshment break – Sponsored by ESRI

- 10:00 - 10:20 Managing Museum Collections Using Geographic Information Systems--Kelly Allen
 10:20 - 10:40 Use of Socioeconomic Variables in Habitat Vulnerability Assessment--Stephen D. Smith
 10:40 - 11:00 Application of WV-GAP Results in the Interagency Environmental Assessment of Mountaintop Mining in Appalachia--Jacquelyn Strager
 11:00 - 11:20 Scaling Up from Field to Region for Wind Erosion Prediction on Cropland Using GIS--Ted Zobeck
 11:20 - 11:40 Delivering Wildlife Information on the Net: Examples and Case Studies--Jeff Waldon
 11:40 - 12:00 Nature Preserve Planning in the Urban-Rural Fringe of San Antonio/Bexar County, Texas: Integration of GIS, Vegetation Analysis, and Ground-Truthing to Aid Land Acquisition and Management Decisions--Reno Cecora

LUNCH

- 12:00 - 1:30 Luncheon (provided)
 Keynote Speaker--Implementing Gap Analysis: The Habitat Conservation Act--Mark Shaffer, Defenders of Wildlife

AFTERNOON

Concurrent Session 1: Texas Applications, Jean Parcher, USGS, Moderator

- 1:30 - 1:45 Urban Sprawl in Texas: Past, Present, and Future--Nick C. Parker
 1:45 - 2:15 Place Prioritization for Texas Using GAP Data: The Use of Biodiversity, Environmental Surrogates in the Presence of Socioeconomic Constraints--Sahotra Sarkar, Justin Garson, Anshu Aggarwal, Nick C. Parker, and Sheri Haskell
 2:15 - 2:45 Richness of Terrestrial Vertebrates Across Texas: Ecotourism and Conservation--Eric Holt, Kelly Allen, Nick C. Parker, and Robert J. Baker
- 2:45 - 3:15 Refreshment break – Sponsored by ESRI**
 3:15 - 3:35 Comparison of Vegetation Classification Using Various Clustering Levels--Scott Schrader
 3:35 - 4:05 Historical Weather and Natural Resources in Texas--Raquel Leyva
 4:05 - 4:30 Building Statewide Data for Texas-GAP, Framework and Beyond – A. Kim Ludeke
 4:30 - 4:50 Multi-Level Imagery Database for Texas--Wade Shoop
 4:50 - 5:15 TX-GAP and Biological Informatics Products --Nick C. Parker
 5:15 - 5:30 Discussion and Closing Comments

Concurrent Session 2: Workshops

- 1:30 - 2:00 Directions in Metadata--Ree Brannon
 2:00 - 2:45 TNC NVC Workshop--Milo Pyne and Dennis Grossman
 3:15 - 5:00 TNC NVC Workshop continues--Milo Pyne and Dennis Grossman

EVENING

5:30 - 7:00 Social Mixer--GAP Researchers, Symposium Speakers and Participants, and Vendors

SYMPOSIUM: APPLYING GAP TO CONSERVATION PLANNING AT MULTIPLE SCALES

AUGUST 15, TUESDAY, DAY 3

(Note, you must be preregistered for the symposium to attend.)

MORNING

7:30 - 8:00 Refreshments/Poster Session and Vendor Exhibits Open
 8:00 - 8:30 Introduction by Moderator--J. Michael Scott
 8:30 - 9:00 The Relevance of Biological Integrity to Conservation Planning and Reserve Management--Paul Angermeier
 9:00 - 9:30 Ecoregional Planning in The Nature Conservancy: Insights, Lessons, and Challenges--Craig Groves
 9:30 - 10:00 The Role of Ecological Principles in Refuge Management Planning--Don DeLong
10:00 - 10:30 Refreshment break – Sponsored by ESRI
 10:30 - 11:00 Oregon Biodiversity Project/Partnership--Sara Vickerman
 11:00 - 12:00 Panel Discussion--Angermeier, DeLong, Groves, Vickerman

LUNCH

12:00 - 1:30 Luncheon (provided)
 Keynote Speaker--Implementing Gap Analysis: The Habitat Conservation Act--Mark Shaffer, Defenders of Wildlife

AFTERNOON

1:30 - 1:45 Integration of Large-Area Planning to Local Implementation--J. Michael Scott
 1:45 - 2:15 Federal Implementation by the BLM--Elaine Brong
 2:15 - 2:45 State and Local Government Use of Land Cover Data and GIS for Planning--Dave Diamond
2:45 - 3:15 Refreshment break – Sponsored by ESRI
 3:15 - 3:45 Land-Saving Action in Spokane County: Biodiversity Analyses Identify “Threads of Hope” Conservation Strategy--Chris DeForest
 3:45 - 4:15 Telling Stories and Making Policies: Integrating Conservation Issues in Land Use Planning--Allan Shearer
 4:15 - 5:15 Panel discussion--Brong, DeForest, Diamond, Shearer, and morning panelists.
 5:15 - 5:30 Closing comments--J. Michael Scott

EVENING

5:30 - 7:00 Social Mixer--GAP Researchers, Symposium Speakers and Participants, and Vendors

WEDNESDAY, August 16, 2000**MORNING**

7:30 - 8:00 Refreshments/Poster Session and Vendor Exhibits Open
 8:00 - 11:00 International and Regional Breakouts (regions and locations TBA)
 Metadata Clinic (in Poster Room)--Ree Brannon and Tom Sklebar
 11:00 - 12:00 PI/Coordinators' Meeting with National Staff--PIs and/or State Coordinators please attend--Kevin Gergely, Patrick Crist, and National GAP staff.
 12:00 - 1:30 Lunch (on your own)

AFTERNOON

1:30 - 2:15 Biological Informatics: Natural History Collections, Resource Management, and Economic Development--Robert J. Baker
 2:15 - 2:45 GAP: the Next Ten Years--Kevin Gergely and John Mosesso
2:45 - 3:15 Refreshment break – Sponsored by TBA
 3:15 - 3:30 Year 2001 National GAP Meeting--Jon Jenks
 3:30 - 3:45 Closing Remarks--Nick Parker

EVENING

6:30 Poster Session and Vendor Exhibits Closed

THURSDAY, August 17, 2000**MORNING**

9:00 - 1:00 **Field Trips - #3 and #4**
 9:00 - 6:00 **Field Trip - #5**

AFTERNOON

1:00 - 5:00 **Field Trip - #6**

TOURS:

Various tours available daily, including trolley tours.

CONTACT INFORMATION:

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FIELD TRIPS:

- #1 -- Sunday, 8/13, 1:00 - 5:00 -- “The Alamo and Spanish Colonial Missions,” La Villita, Imax Theatre Rivercenter
- #2 -- Sunday, 8/13, 1:00 - 5:00 -- “San Antonio Sampler,” Brackenridge Park, Japanese Tea Gardens, San Antonio Zoo, San Antonio Botanical Gardens, Fort Sam Houston and Quadrangle, King William Historic District, Institute of Texan Cultures, Buckhorn Museum, El Mercado (Mexican market)
- #3 -- Thursday, 8/17, 9:00 - 1:00 -- “The Alamo and Spanish Colonial Missions”
- #4 -- Thursday, 8/17, 9:00 - 1:00 -- “San Antonio Sampler”
- #5 -- Thursday, 8/17, 9:00 - 6:00 -- “Texas Hill Country Escape,” Fredericksburg, TX; Admiral Chester Nimitz Museum; Stonewall ,TX; LBJ National Park; Luckenbach, TX; Texas Barbeque dinner.
- #6 -- Thursday, 8/17, 1:00 - 5:00 -- “Caverns and Caves,” Cascade Caverns, Natural Bridge Caverns, Natural Bridge Wildlife Range (African Safari, Texas Style)

LOCAL ATTRACTIONS:

Sea World – San Antonio
Six Flags Fiesta Texas
San Antonio River Walk
Schlitterbahn Watermark
Retama Park Horse Racing
The Alamo
San Antonio Zoo
Market Square
Tower of the Americas
La Villita
The Historic Missions of San Antonio
The King William Historic District
Brackenridge Park
Ripley’s Believe It or Not!
Natural Bridge Wildlife Ranch
Natural Bridge Caverns