

# The Warnell Continuing Education Program

Daniel B. Warnell School of Forestry and Natural Resources

## Interpreting Aerial Images of Rural Landscapes

March 11, 2019

Instructor: Pete Bettinger, Ph.D.

Warnell School of Forestry and Natural Resources

Room 4-419



**WARNELL**  
SCHOOL OF FORESTRY AND NATURAL RESOURCES  
THE UNIVERSITY OF GEORGIA

### Purpose and Objectives

Aerial imagery is a valuable tool in the management of rural land. Successful natural resource managers need the confidence to be able to interpret what they see in aerial images, in order to effectively communicate to others the current and historical state of forest and agricultural resources. The identification of basic forest and agricultural uses of land, along with conclusions drawn on how the land has been managed, can help one better understand potential land value for economic and environmental purposes.

### This four hour course:

- Introduces basic image interpretation principles.
- Describes issues (distortion, displacement, etc.) that may be encountered using aerial images.
- Facilitates an understanding of the use of rural lands through the viewing of aerial images in Google Earth.

### Upon completion of this course, you should be able to:

- Employ basic image interpretation principles.
- Understand issues (distortion, displacement, etc.) that may be encountered using aerial images.
- Interpret the use of rural lands through the viewing of aerial images in Google Earth.

### Who Should Attend?

Natural resource management professionals who have an interest in learning more about how to use aerial images to support natural resource management.

### Format

The course involves lecture presentations that provide an overview of aerial image interpretation techniques for assessments of rural land areas. In addition, participants will use Google Earth to further investigate geographic features of the southern United States to further their understanding of the management and use of rural landscapes. The material will be presented in a logical manner, from a description of image interpretation principles to types of imagery products and how they are created. We will focus on the evidence provided through aerial images that enables one to identify different forest types, to understand the silvicultural practices that have been employed, and to assess the use of agricultural lands. Handouts will be provided to summarize the material presented.

### Instructor

Pete Bettinger is a professor in the Warnell School of Forestry and Natural Resources. He has more than 35 years of operating, teaching and research experience in forestry and natural resources, including roles with the U.S. Forest Service, several forest product companies, and Oregon State University. Bettinger has taught several courses on forest measurements, forest planning, and harvest scheduling, as well as GIS applications in natural resources management. In 2008, Oxford University Press published his book *Geographic Information Systems: Applications Natural Resource Management*. Bettinger earned BS and MS degrees from Virginia Tech, and a PhD from Oregon State University.

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### Registration Fee

The fee for this course is \$120, which includes instructional materials. **You can register online for the course here:** <http://conted.warnell.uga.edu/>

### Continuing Education Credits

- 4.0 Continuing Forestry Education (CFE) hours – Category 1 (approved)
- 4.0 Continuing Logger Education hours (CLE) – Environmental (approved)
- Optional 4.0 GA Real Estate Agent/Appraiser credits (approved)....\$50.00

*Full Attendance is Mandatory to Receive Credit.*

### Course Itinerary

March 11, 2019

Time	Event
7:45 a.m.	Registration
8:00	Principles of image interpretation
8:30	Image type, geometry, quality, accuracy, distortion, and displacement
9:00	Forest composition: conifer, hardwood, mixed, cypress
9:30	Participant exercises using Google Earth
10:00	Refreshment break
10:15	Silvicultural practices: burning, planting, thinning, final harvest, site preparation
10:45	Participant exercises using Google Earth
11:15	Agricultural uses: pasture, cropland, orchards
11:45	Participant exercises using Google Earth
12:15 p.m.	Adjourn

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### Mail-in Registration Form

Name - please print \_\_\_\_\_

Preferred name for badge \_\_\_\_\_

Birth-date (for transcript retrieval) \_\_\_\_\_

Business mailing address or check here if home address ☐

City \_\_\_\_\_

State \_\_\_\_\_

Zip \_\_\_\_\_

County, if Georgia \_\_\_\_\_

Home phone \_\_\_\_\_

Work phone \_\_\_\_\_

Fax \_\_\_\_\_

E-mail address ☐ Please send me e-mail about Warnell Continuing Education programs.

position \_\_\_\_\_

organization/employer \_\_\_\_\_

*By registering for this event I agree to comply with all event and lodging cancellation policies.*

### Interpreting Aerial Images of Rural Landscapes

March 11, 2019

Registration by March 8, 2019:.....\$120.00

Enclosed is a check # \_\_\_\_\_

(payable to Warnell School of Forestry and Natural Resources)

**Your registration will not be processed until payment is received.**

### Cancellations:

**Notice must be received by 5:00 p.m. February 25, 2019 to receive a refund. Call Ingvar Elle at 706-583-0566 to cancel.**

Mail payment to:

Attn: Ingvar Elle

Warnell School of Forestry & Natural Resources

The University of Georgia

Athens, Georgia 30602

### Parking and Directions

A visitor parking deck is located just north of the Georgia Center. Parking is \$10.00 per day.

For a map and directions go to:

<https://www.warnell.uga.edu/about/directions-maps>

### Special Services

If you require special services or dietary considerations, please contact Krista Merry (kmerry@warnell.uga.edu) by February 25, 2019.