

Forest Health Monitoring Program

Monthly Update

November 2016

UPCOMING EVENTS

(Items beginning with * indicate a new listing or new information)

***November 15-16, 2016.** Davis, CA. The California Forest Pest Council Annual Meeting. The theme of meeting is *California Forests – Severe Drought Takes its Toll*. The California Forest Pest Council aims to foster education concerning forest pests and forest health, and advises the California Board of Forestry and Fire Protection on forest health protection. This meeting is an important opportunity for several interested agencies and people from different program areas to share information on the status of various forest pests and their work that concerns them. For complete information about the meeting including registration and lodging, visit the [meeting website](#). Online registration closes **November 11, 2016**. To learn more about the California Forest Pest Council, visit the [Council's web site](#).

UPCOMING WEBINARS

(Items beginning with * indicate a new listing or new information)

***Learn at Lunch Live Webinar:** (Sponsored by the Utah State University Forestry Extension, TREE Fund, and Utah Division of Forestry, Fire, and State Lands) **Soil Compaction and Urban Trees: Strategies for Gaining Ground.** Speaker: Dr. Bryant Scharenbroch (University of Wisconsin - Stevens Point). Compacted soil is one of the most common and serious problems urban trees face. Compaction quickly causes severe physical, chemical and biological alterations to soil conditions, and remediation is a difficult and lengthy process. What's a tree care or landscape professional to do? In this webinar, soil expert Dr. Bryant Scharenbroch will discuss how soil preservation is critical to prevent and limit soil compaction. Learn how you can protect urban soils from compaction and gain useful management strategies to improve the quality of compacted soils in your local landscape. Please [register](#) for the webinar. Zoom will send you a reminder email the day before, and 1 hour before the scheduled webinar. 1 CEU is available from the following organizations: International Society of Arboriculture, and Society of American Foresters. This webinar will be conducted at **12:00 p.m. (MDT) on November 30, 2016**. To access this free webinar, visit [the webinar information site](#) for more details. Plan to access the site a few minutes early.

The Sustainable Forest Roundtable offers periodic webinars. For information about accessing past and future webinars, please visit [the Webinar Portal for Sustainable Forests](#).

***Webinars offered by the U.S Forest Service Remote Sensing Applications Center (RSAC)** include three varieties. The lightning talks (**Lightning Talk**) are very short presentations that will last approximately 15 minutes; they will focus on specific geoprocessing tasks and are designed to provide concise and useful information in a very efficient manner. The Awareness Sessions (**Awareness**) are designed to build your knowledge base on the particular topic and enable you to further explore the technology with realistic expectations. The Technical Training Webcasts (**Technical**) are designed to provide you with the technical skills and tools to complete remote sensing geoprocessing tasks. **Note: If you don't have access to the Forest Service Intranet, the registration links will not work. Please email [Abigail Schaaf \(aschaaf@fs.fed.us\)](mailto:aschaaf@fs.fed.us) directly to make accommodations.**

- [Integrating Digital 3D Imagery into Your Geospatial Workflows](#) – (**Technical**) This course will introduce the basic characteristics of photos that allow for stereo viewing, and demonstrate how to use digital 3D imagery in USFS corporate software (Summit Evolution and ArcMap 10.2 or later) for estimating tree heights and digitizing features with elevation information. Note that no special equipment is required, as you will be able to view imagery in stereo on any computer monitor. This webinar will be conducted from **10:00am – 4:00pm (Mountain Time)** on **November 15, 2016**. [Click here to register or for additional information](#).
- [Sentinel Satellites](#) – (**Awareness**) The European Space Agency (ESA) has developed a new family of satellites called the Sentinel Satellites. Each of these satellites are designed with specific objectives in mind. This awareness session will review the Sentinel program and focus specifically on the first two Sentinel Satellites and how they may be used in forest applications. The data from these satellites is being provided for free and may be of great use. Sentinel 1 is a radar imaging satellite and Sentinel 2 is a multi-spectral sensor very similar to the Landsat satellites. This webinar will be conducted from **10:00am – 12:00pm (Mountain Time)** on **November 17, 2016**. [Click here to register or for additional information](#).
- [The Terrestrial Ecological Unit Inventory \(TEUI\)](#) - (**Technical**) The Geospatial Toolkit v5.1 is an ArcGIS 10.0 and above extension used to stratify landscapes and analyze environmental characteristics with geospatial data. In this course you will learn the basics of using TEUI to access geospatial data, generate statistics and visualize them with graphs and tables, design a sampling scheme, and characterize map units. This webinar will be conducted from **10:00 am – 4:00 pm (Mountain Time)** on **December 1, 2016**. [Click here to register or for additional information](#).
- [Google Earth Engine \(GEE\): Fundamentals of JavaScript and the Code Editor Platform](#) - (**Technical**) This one-day technical webinar introduces Google Earth Engine and JavaScript. The instructor will guide participants in the design of a script to create fire severity map products

and summary tables using the Rapid Assessment of Vegetation Condition after Wildfire (RAVG) modeling protocols. Google Earth Engine is a cloud-based geospatial processing platform for executing large-scale environmental data analysis, such as detecting deforestation or fire mapping. Users can access Earth Engine in one of two platforms, the point and click interface called Explorer or the scripting interface called Code Editor. During this session, we will be working with the Code Editor. At the end of the session, you'll learn and practice how to design a processing script in the JavaScript programming language, access public data, conduct spatial and non-spatial analyses, save and share your workspace, and export results. This technical webinar session will be conducted from **10:00am – 4:00pm (Mountain Time) on December 6, 2016**. [Click here to register or for additional information.](#)

- [Using FUSION for Large Lidar Acquisition Processing](#) – (**Technical**)
The objective of this webinar is to provide an overview of batch processing workflows designed to create seamless data products (3D canopy structure derivatives) from large lidar acquisitions. The webinar will also include customized workflows and consultation based on participants own lidar datasets and project objectives. This webinar will be conducted from **10:00am – 4:00pm (Mountain Time) on December 8, 2016**. [Click here to register or for additional information.](#)

Job Opportunities

The U.S. Forest Service Rocky Mountain Research Station will soon be advertising for an Information Management Team Leader, GS-2210-12/13. The incumbent is responsible for supervising and leading all aspects of a large, geographically dispersed Information Management Team in support of the Interior West Forest Inventory and Analysis (IW-FIA) Program. This position will be located at the Forestry Sciences Laboratory; Ogden, UT. Interested candidates can visit the [RMRS Website](#) and the [Interior West Forest Inventory and Analysis Program Website](#). Major Duties: At the full performance level, key functions of the position include, but are not limited to:

- Plans and carries out difficult and complex assignments and develops new methods, approaches, and procedures, and provides advice and guidance on a wide range and variety of IT/IM issues.
- Works with customer program representatives to refine functional requirements, translate functional requirements into design specifications, and determines the best approach for implementation within a technical environment.
- Provides functional expertise, analysis, and advice to the internal customers and/or contractors for interface decisions, integrated processes and operational considerations.
- Serves as the key focal point for the Program, providing advice, counsel, and assistance on both technical and administrative matters.

- Plans the work to be accomplished by the Information Management Team, assigns work to employees, and establishes production or quality standards for the unit's work.
- Oversees all administrative functions of the IM Team including:
 - personnel actions, purchasing, and grants and agreements
 - support for budget-related processes for budget formulation, execution and reconciliation
- Provides technical IT/IM advice to executive level managers and regularly represents FIA in meetings and discussions with representatives of industry, interagency advisory committees, and other Federal agencies and systems users.
- Prepares reports, correspondence, and other written materials.

For more information regarding duties for the position, please contact Eric T. Volkman, FIA Deputy Program Manager, at 801-625-5371 or evolkman@fs.fed.us. If you are interested in this opportunity, please fill out the Outreach Notice Form (attached to this Update as attachment 1) and send to (evolkman@fs.fed.us) or fax to (801-625-5723) **by**

November 10, 2016. *The United States Department of Agriculture (USDA) prohibits discrimination in all of its programs and activities on the basis of race, color, national origin, age, disability, and where applicable, sex, marital status, familial status, parental status, religion, sexual orientation, genetic information, political beliefs, reprisal, or because all or part of an individual's income is derived from any public assistance program. (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact USDA's Target Center at (202) 720-2600 (voice and TDD). To file a complaint of discrimination, write USDA Director, Office of Civil Rights, 1400 Independence Avenue, S.W., Washington DC 20250-9410 or call (800) 795-3272 (voice) or (202) 720-6382 (TDD). USDA IS AN EQUAL OPPORTUNITY PROVIDER AND EMPLOYER.*

REASONABLE ACCOMMODATION: The USDA Forest Service provides reasonable accommodations to applicants with disabilities. If you need a reasonable accommodation for any part of the application and hiring process, please contact the point of contact listed above. The decision on granting reasonable accommodation will be made on a case-by-case basis.

The University of Florida, School of Forest Resources & Conservation

seeks qualified applicants for a new, full-time staff position at the Research Coordinator III level. The Coordinator, Global Threats to Forest Health will work closely with a team of UF/IFAS faculty and staff to develop an internationally-recognized research and outreach program on global threats to forest health, and coordinate programmatic efforts in that area. Significant efforts may include planning, promoting, and organizing international meetings; coordinating research and outreach workshops to stakeholders; facilitating stakeholder requests for and managing data; supervising other staff; and generally facilitating the multi-disciplinary efforts of UF students, staff, faculty, and others to collect and analyze forest health-related data, and deliver findings to diverse stakeholder groups. The position includes aggressively generating, delivering, and actively managing communications (e.g., websites, social media, press releases) between UF/IFAS faculty and staff and stakeholders on issues related to global threats to forests. The position will work closely with UF/IFAS faculty and staff to identify and secure extramural funding to support a robust, well-funded,

internationally-recognized research and outreach program on global threats to forest health. Other duties will be assigned based on the needs of the unit and in consultation with UF/IFAS faculty and staff working in the area of global threats to forest health. A bachelor's degree in a field broadly related to natural resources management and three years of relevant experience or an equivalent combination of education and experience; Experience with and strong skills in project management or data curation; Experience with contemporary communication technology; Excellent verbal and written communication skills that can be used to target diverse audiences; An ability to create and strategically deliver outreach or research communication products; Ability and desire to coordinate as well as work effectively within interdisciplinary teams; An ability to coordinate and facilitate procurement of extramural funding. Graduate degree in a field broadly related to natural resources management is strongly preferred, PhD is preferred; Formal training and experience (>3 years) with human dimensions of natural resources; Experience working on research or outreach programs related to forest health; Fluency in a second language; Experience collaborating with research faculty. To apply, visit the [online announcement](#). The job announcement is 499253. Applications close **November 10, 2016** eastern standard time.

PUBLICATIONS OF INTEREST

- 1. Eastern Forest Environmental Threat Assessment Center.** 2016. Forest ThreatNet, the September/October 2016 edition of the Eastern Forest Environmental Threat Assessment Center's newsletter. Available online: [The Forest ThreatNet](#)
- 2. Iannone, B.V.; Potter, K.M.; Guo, Q.; Liebhold, A.M.; Pijanowski, B.C.; Oswald, C.M.; Fei, S.** 2016. Biological invasion hotspots: A trait-based perspective reveals new sub-continental patterns. *Ecography*. 39:961-969.
- 3. Maffei, H.M.; Filip, G.M.; Grulke, N.E.; Oblinger, B.W.; Margolis, E.Q.; Chadwick, K.L.** 2016. Pruning high-value Douglas-fir can reduce dwarf mistletoe severity and increase longevity in Central Oregon. *Forest Ecology and Management* 379: 11-19.
- 4. Rogers, Paul C.; St. Clair, Samuel B.** 2016. Quaking aspen in Utah: integrating recent science with management. *Rangelands*. 38(5):266-272.

5. **Russell, M.B.; Woodall, C.W.; Potter, K.M.; Walters, B.F.; Domke, G.M.; Oswalt, C.M.** 2017. Interactions between white-tailed deer density and the composition of forest understories in the northern United States. *Forest Ecology and Management*. 384:26-33.

FOR MORE
FHM
INFORMATION

Visit the [FHM homepage](#) and the [Forest Health Portal](#)
or access both via the [USDA Forest Service homepage](#)



OUTREACH NOTICE FORM
Rocky Mountain Research Station

Inventory and Monitoring Program

Ogden, UT

Information Management Team Leader

GS-0301-07/09

If you are interested in this opportunity, please complete this form and send it by email to evolkman@fs.fed.us (Please include "IM Team Leader, GS-2210-12/13" on the subject line of your message.)

Please respond no later than **November 10, 2016**. The permanent position will be advertised on the OPM USA Jobs Website (www.usajobs.opm.gov) shortly.

PERSONAL INFORMATION:

Name:

Date:

Address:

Phone:

Email:

Are you currently a Forest Service employee: YES NO

Current title/series/grade/location/classification:

(e.g., Career, Career-Conditional, Excepted-ANILCA, Excepted VRA, etc.)

Briefly describe why you will be a quality candidate for this position:

The United States Department of Agriculture (USDA) prohibits discrimination in all of its programs and activities on the basis of race, color, national origin, age, disability, and where applicable, sex, marital status, familial status, parental status, religion, sexual orientation, genetic information, political beliefs, reprisal, or because all or part of an individual's income is derived from any public assistance program. (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact USDA's Target Center at (202) 720-2600 (voice and TDD). To file a complaint of discrimination, write USDA Director, Office of Civil Rights, 1400 Independence Avenue, S.W., Washington DC 20250-9410 or call (800) 795-3272 (voice) or (202) 720-6382 (TDD). USDA IS AN EQUAL OPPORTUNITY PROVIDER AND EMPLOYER.

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