

# Forest Health Monitoring Program Monthly Update - Supplement April 22, 2019

## UPCOMING WEBINARS

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

\*Webinars offered by the U.S Forest Service Geospatial Technology and Applications Center (GTAC) include three varieties. The lightning talks (**Lightning Talk**) are very short presentations that will last approximately 15-30 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 geospatial tasks. **GIS** listed after presentation type indicates GIS training. **RS** listed after the presentation type indicates remote sensing training. **Note: If you don't have access to the Forest Service Intranet, the registration links will not work. Please email what class you want to take to ([geotrainingadmin@fs.fed.us](mailto:geotrainingadmin@fs.fed.us)) and they will register you manually.**

- **May 1, 2019 at 10:00 am – 4:30 pm (Mountain Time) [ArcGIS 10.5 – Cartographic Tools](#) (**Technical - GIS**)** Participants will learn how to work with various cartographic related properties in ArcGIS. The course covers how to set Layer and Data Frame properties, work with Layer files, assign classification symbology, work with labeling and annotation, and create a final map product.
- **May 1, 2019 at 10:00 am – 12:00 pm (Mountain Time) [3D Modeling using Structure from Motion](#) (**Awareness - RS**)** Structure from Motion (SfM) is a method for aligning overlapping images to create a 3D scene and other geospatial products. This technology can be used on various types of imagery, including those taken with handheld cameras, UAS's (drones), or even scanned historical photographs. This awareness webinar will provide an overview of how this technology works, what products can be created from it, and how the Forest Service is currently using it. We will also share information about Agisoft Metashape (formerly PhotoScan), which is the current SfM enterprise software for the Forest Service.

- **May 2, 2019 at 10:00 am – 4:00 pm (Mountain Time) [ArcGIS 10.5 – Geoprocessing](#) (Technical - GIS)** Do MORE with your data! The Analysis toolbox puts POWERFUL tools right at your fingertips. This course covers 19 of the 21 tools in the Analysis toolbox found right in ArcMap. Whenever you need to solve a spatial or statistical problem, look to the Analysis toolbox. The Analysis toolbox has four toolsets. Extract. Overlay. Proximity. Statistics. Because GIS datasets often contain more data than you need, the Extract tools allow you to select features and attributes in a feature class or table based on a query to create new datasets. New information is discovered when overlaying one set of features with another, identifying spatial relationships between those features. With the Overlay toolset you can overlay multiple feature classes to combine, erase, modify, or update spatial features, resulting in a new feature class. The Proximity toolset contains tools that are used to determine the proximity of features within one or more feature classes or between two feature classes, identifying features that are closest to one another or calculating distances between or around them. And the Statistics toolset performs standard statistical analysis (such as mean, minimum, maximum, and standard deviation) on attribute data as well as tools that calculate area, length, and count statistics for overlapping and neighboring features.
- **May 7-8, 2019 at 10:00 am – 4:00 pm (Mountain Time) [ArcGIS 10.5 – Quick Start](#) (Technical - GIS)** Participants will learn how to get started using ArcGIS Desktop's primary applications, ArcMap and ArcCatalog. The course covers fundamental GIS concepts and basic functionality to view and manipulate display properties. The hands on exercises teach basic viewing functionality and GIS data types and their properties.
- **May 9, 2019 at 10:00 am – 1:00 pm (Mountain Time) [Forest Service Geospatial Resources](#) (Awareness - GIS) [Forest Service Only](#)** This course is for people who are new to the Forest Service or new to GIS and need to learn about the geospatial data, protocols, and platforms available in the Forest Service. PLEASE NOTE: This course will not teach you how to use specific GIS software. If you are new to GIS, we recommend you take the GSTC ArcGIS 10.3 Quick Start class, or the Introduction to ArcGIS Online course.
- **May 10, 2019 at 10:00 am – 4:00 pm (Mountain Time) [Collector for ArcGIS in the Forest Service](#) (Technical – GIS) [Forest Service Only](#)** This introductory webinar covers GPS data collection using the Collector app on a tablet or smart phone. The GIS data and map setup is also discussed. You will need a smart phone or tablet, an internet connection for setting up the device, and a Forest Service ArcGIS Online account.

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**FHM**  
**INFORMATION**

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