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| NASA_logo | **Tactical Fire Remote Sensing**  **Advisory Committee #33** Fall Meeting / Nov 18 - 19, 2020 | C:\aa_rsac\Logo\Shields\Forest Service2.jpg |

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### *“We'll bring our eggheads, you bring yours, and we'll scramble 'em together” – Vince A.*

**Moderators:** Vince Ambrosia (408-666-7609 cell), Everett Hinkley (801-455-8764 cell)

**TFRSAC AGENDA – Wednesday November 18, 2020**

**11:00 am EDT - Block 1 Presentations** (120 minutes)

* Welcome and Introductions (20) Vince & Everett
* [NIFC](https://new.cloudvault.usda.gov/index.php/s/mTYsGJmmc7D93j3/download?path=%2FTactical%20Fire%20Remote%20Sensing%20Advisory%20Committee%2FFall%202020%20TFRSAC&files=1_1%20Kuo%202020%20TFRSAC%20Fall%20Meeting.pptx) / [NIROPS Update](https://new.cloudvault.usda.gov/index.php/s/mTYsGJmmc7D93j3/download?path=%2FTactical%20Fire%20Remote%20Sensing%20Advisory%20Committee%2FFall%202020%20TFRSAC&files=1_1%20Mellin%202020NIROPS_TFRSAC2020Fall.pptx) / Fire & Aviation Mgmt. (20) [Kuo](mailto:ekuo@fs.fed.us) /[Mellin](mailto:tmellin@fs.fed.us) / [Triplett](mailto:setriplett@fs.fed.us)
* Forest Service Update (20) [Everett Hinkley](mailto:everett.hinkley@usda.gov)
* [NASA Update](https://new.cloudvault.usda.gov/index.php/s/mTYsGJmmc7D93j3/download?path=%2FTactical%20Fire%20Remote%20Sensing%20Advisory%20Committee%2FFall%202020%20TFRSAC&files=1_3_Ambrosia_NASA-Update.pptx) (20) [Vince Ambrosia](mailto:Vincent.G.Ambrosia@nasa.gov)
* NASA Disaster Program / [Disaster Portal and support to  
  2020 Wildfires](https://new.cloudvault.usda.gov/index.php/s/mTYsGJmmc7D93j3/download?path=%2FTactical%20Fire%20Remote%20Sensing%20Advisory%20Committee%2FFall%202020%20TFRSAC&files=1_4%20Helms%20-%20Kirkendall_NASA%20Disasters%20Program%20for%20TFRSAC%20Fall%202020.pptx) (20) [Kirkendall](mailto:jeremy.j.kirkendall@nasa.gov) / [Helms](mailto:brady.helms@nasa.gov)
* USGS Wildand Fire Science Strategic Plan (20) [Paul Steblein](mailto:psteblein@usgs.gov)

**1:00 pm - Break** (30 min) – Lunch Break

**1:30 pm - Block 2 Presentations** (85 minutes)

* Thermal Working Group Update (20) [R. Cornelius](mailto:Rebecca.A.Cornelius@nga.mil) / [W. Idle](mailto:Winthrop.C.Idle.ctr@nga.mil)
* Canada Wildfire Sat (15) [Josh Johnston](mailto:Joshua.johnston@canada.ca)
* Pyregence Consortium (15) [David Saah](mailto:dssaah@usfca.edu) (UCSF)
* CalFire Update (20) [Phil SeLegue](mailto:phillip.selegue@fire.ca.gov)
* Spatiotemporal Trends in Wildfires across the Western   
  United States (15) [Keith Weber](mailto:webekeit@isu.edu) (ISU)

**2:55 pm - Break** (20 min) – Lunch Break 2

**3:15 pm - Block 3 Presentations** (75 minutes / 15 minutes each)

* NASA C-FIRES Mission Proposal (15) [D. Morton](mailto:douglas.morton@nasa.gov) / [Randerson](mailto:jranders@uci.edu)
* Operational implementation of the xView2 algorithms in   
  this year's fire season in California (15) [N. Patel](mailto:niravpatel65@gmail.com;%20npatel@diux.mil) / [R. Gupta](mailto:rgupta.ctr@diu.mil)
* GOES fire detection (15) [Chris Schmidt](mailto:chris.schmidt@ssec.wisc.edu)
* The use of the USFS prescribed burn policy in the [Rich Bernknopf](mailto:rbern@unm.edu)  
  Sierra Nevada (15)
* The use of remote sensing-based ET and evaporative stress index

to assess pre and post fire vegetation status (15) [Pascolini-Campbell](mailto:madeleine.a.pascolini-campbell@jpl.nasa.gov)

* NIROPS imagery for calibration and validation of satellite fire products [Boschetti](mailto:luigi@uidaho.edu) / [Ambrosia](mailto:Vincent.G.Ambrosia@nasa.gov) / & Gareth Roberts

**4:30 pm - Wrap Up and Adjourn**

**Day 2 Agenda – Thursday November 19, 2020**

**11:00 am - Block 4 Presentations** (90 minutes)

* Welcome and Day 1 Recap (20) Vince & Everett
* Early smoke detection using cameras (20) [Kinshuk Govil](mailto:kinshuk@gmail.com)
* Wildfire Interdisciplinary Research Center (WIRC) [Dr. Craig Clements](mailto:craig.clements@sjsu.edu) (SJSU)
* Lighter Than Air aircraft in support of wildland fire management (15) [Alan Weston](mailto:Alan%20Weston%20%3calan@ltaresearch.com%3e)
* Improved Fuel Loading for Fire Emissions and Smoke   
  Modeling and Mapping (15) [Nancy French](mailto:nancy.french@mtu.edu)

**12:30 pm - Break** (30 min) – Lunch Break

**1:00 pm - Block 5 Presentations** (90 minutes / 15 min each)

* [Enhancing wildfire resilience in Alaska through landcover](https://new.cloudvault.usda.gov/index.php/s/mTYsGJmmc7D93j3/download?path=%2FTactical%20Fire%20Remote%20Sensing%20Advisory%20Committee%2FFall%202020%20TFRSAC&files=5_1%20Waigl%202020_TFRSAC_CWaigl.pptx)

[mapping with hyper- and multi-spectral remote sensing](https://new.cloudvault.usda.gov/index.php/s/mTYsGJmmc7D93j3/download?path=%2FTactical%20Fire%20Remote%20Sensing%20Advisory%20Committee%2FFall%202020%20TFRSAC&files=5_1%20Waigl%202020_TFRSAC_CWaigl.pptx) [Christine Waigl](mailto:cwaigl@alaska.edu)

* [GeoCollaborate](https://geocollaborate.com/) - [Support to California Civil Air Patrol](https://new.cloudvault.usda.gov/index.php/s/mTYsGJmmc7D93j3/download?path=%2FTactical%20Fire%20Remote%20Sensing%20Advisory%20Committee%2FFall%202020%20TFRSAC&files=5_1%20DJones-GeoCollaborate-Supporting-CA-CAP-20201119.pdf)  [Dave Jones](mailto:dave@stormcenter.com)
* [Utility of VIIRS RGB Fire Color and Fire Temperature images](https://new.cloudvault.usda.gov/index.php/s/mTYsGJmmc7D93j3/download?path=%2FTactical%20Fire%20Remote%20Sensing%20Advisory%20Committee%2FFall%202020%20TFRSAC&files=5_3%20Ziel%20Fire%20Analyst%20Satellite%20Tools%20for%20TFRSAC.pptx)   
  [for CONUS](https://new.cloudvault.usda.gov/index.php/s/mTYsGJmmc7D93j3/download?path=%2FTactical%20Fire%20Remote%20Sensing%20Advisory%20Committee%2FFall%202020%20TFRSAC&files=5_3%20Ziel%20Fire%20Analyst%20Satellite%20Tools%20for%20TFRSAC.pptx) [Robert Ziel](mailto:rhziel@alaska.edu) (UAF)
* Wide Field of View Program [Ryan Francies](mailto:FRANCIES,%20RYAN%20J%201st%20Lt%20USSF%20AFSPC%20SMC/DCIA%20%3cryan.francies@spaceforce.mil%3e) (SMC)
* [Deploying the Team Awareness Kit on wildland fires;](https://new.cloudvault.usda.gov/index.php/s/mTYsGJmmc7D93j3/download?path=%2FTactical%20Fire%20Remote%20Sensing%20Advisory%20Committee%2FFall%202020%20TFRSAC&files=5_5%20B%20Schmidt%20TFRSAC%20Presentation.pptx)   
  [results from 2020 and looking forward (20)](https://new.cloudvault.usda.gov/index.php/s/mTYsGJmmc7D93j3/download?path=%2FTactical%20Fire%20Remote%20Sensing%20Advisory%20Committee%2FFall%202020%20TFRSAC&files=5_5%20B%20Schmidt%20TFRSAC%20Presentation.pptx) [Brad Schmidt](mailto:brad.schmidt@state.co.us)
* [Mapping tree mortality as a function of canopy cover](https://new.cloudvault.usda.gov/index.php/s/mTYsGJmmc7D93j3/download?path=%2FTactical%20Fire%20Remote%20Sensing%20Advisory%20Committee%2FFall%202020%20TFRSAC&files=5_6%20TFRSAC2020_Tree_Mortality_FINAL.pptx) [Dale Hamilton](mailto:dhamilton@nnu.edu) (NNU)  
  [reduction](https://new.cloudvault.usda.gov/index.php/s/mTYsGJmmc7D93j3/download?path=%2FTactical%20Fire%20Remote%20Sensing%20Advisory%20Committee%2FFall%202020%20TFRSAC&files=5_6%20TFRSAC2020_Tree_Mortality_FINAL.pptx)

**2:30 pm - Break** (20 min) – Lunch Break

**2:50 pm - Block 6 Presentations** (105 minutes / 15 min each)

* Software to output fire behavior metrics for airborne imagery [Miguel Valero](mailto:mm.valero@sjsu.edu) (SJSU)
* Wildfire Battle Mgmt. and a Tailored Overhead Sensor Layer [Bret Perry](mailto:Bret.Perry@virginorbit.com)
* WildfireSAFE [Matt Jolly](mailto:matt.jolly@usda.gov)
* Damage Assessment Using ArcGIS and Commercial Imagery [Matt Lemaire](mailto:mlemaire@esri.com)
* NASA’s STEReO effort [Joey Mercer](mailto:joey.mercer@nasa.gov)
* UMEX Air Commons Brief Update [Keven Gambold](mailto:kagambold@unmannedexperts.com)

**4:35 pm - Wrap Up and Adjourn** (25 minutes) Hinkley / Ambrosia

**Bonus Presentation** (Not presented at meeting)

* Colorado Multi-Mission Aircraft – 2020 Update [Bruce Dikken](mailto:Bruce%20Dikken%20%3cbruce.dikken@state.co.us%3e)