



Committee on Earth Observation Satellites

WGCapD

*Invites all to join for a*

Webinar series on

## **Geospatial Technology for Wildfire Management**

**01-29 October, 2019**

**Time: 1300 UTC (1800 IST) Live;**

**Recast on 0530 UTC (0930 IST) next day**

### **Background:**

*The Working Group on Capacity Building and Data Democracy (WGCapD) of CEOS as part of its objectives undertake capacity building for the effective use of Earth Observation data as well as providing wider and easier access to those data. As part of this objective, CEOS WGCapD is involved in providing intensive capacity building, education, and training (including awareness and outreach) for enabling end users to gather the information they need and for increasing communication on achieved results. As part of this activity webinar series on “Geospatial Technology for Wildfire Management” will be conducted during October 2019. This webinar series will be of 5 webinars (one each week) each of one hour duration consisting of the following topics:*

- ❖ ***Earth Observation Satellites for Global Wildfire Monitoring (October 1, 2019)***
- ❖ ***Advances in wildfire monitoring through LEO and GEO satellites (October 9, 2019)***
- ❖ ***Geospatial modelling of wild fire risk through space based inputs (October 15, 2019)***
- ❖ ***Early warning systems for wild-fires: Case studies (October 21, 2019)***
- ❖ ***Use of Night time VIIRS data for Fire Mapping/Monitoring (October 29, 2019)***

*The lectures will be delivered by eminent researchers and academicians in this field from across the globe.*

### **Resource Persons:**

- ❖ *C. P. Singh, ISRO*
- ❖ *Wilfrid Schroeder, NOAA*
- ❖ *Arijit Roy, ISRO*
- ❖ *Francesca Di Giuseppe, ECMWF*
- ❖ *Christopher D. Elvidge, Colorado School of Mines*

### **Target participants and Region:**

*The course is for Academician, Scientists, Researchers and Professionals interested in application and use of earth observation data for wildfire monitoring and research. The course is open to participants from all countries and the course will be in English.*

**Contact Person:** *Dr. Arijit Roy, IIRS, ISRO, INDIA (arijitroy@iirs.gov.in)*

## Methodology of execution:

- *This Webinar series is an online distance education program that allows participants to fully engage with program content, their peers, and their instructors via live lectures, through discussion forums, online chat, question/answer session and feedback mechanisms.*
- *The online learning contents will be delivered through Electronic Collaborative Learning and Knowledge Sharing System (E-CLASS) developed by ISRO. The individual learners will have their login credentials through which they join the webinar live from their place of working. This System will provide various online learning tools to make the learning interactive and learner centric.*
- *The URL to access ISRO E-CLASS is- <https://eclass.iirs.gov.in>. Participants are welcome to participate in all live sessions and join the interactions. However, if for any reason the participants are not able to join the live sessions then they can access all the sessions in offline mode through ISRO E-CLASS along study material.*

## Announcement

- *CEOS website;*
- *List provided by ISRO, INPE and CEOS-WGCapD;*
- *Virtual Laboratory for Training and Education in Satellite Meteorology (Vlab website and newsletter);*
- *Regional Centers for Space Science and Technology Education (affiliated with United Nations);*

## System Requirements:

*Recommended Browsers: most browsers will handle the ISRO E-CLASS without problem. Some individual modules may require special software or plugins. Few recommended browsers with latest version are : Google Chrome, Firefox, Safari and Internet Explorer.*

## Registration & Information:

*Registration for the webinar through URL- [www.iirs.gov.in/webinar](http://www.iirs.gov.in/webinar)*

## Schedule

*October 1-29, 2019. as per the schedule given above along with the webinar topics at 13:00 UTC. The duration of each webinar will be of 1 hour and will be followed by 30 minutes Question-Answer session. The same will be repeat broadcast the next day at 05:30 UTC for the countries on the eastern hemisphere*

## Webinar Objectives:

*By the end of this webinar series the participants will have a overall understanding of the following:*

- *Earth Observation satellites used in wildfire monitoring across the globe;*
- *Hotspots and patterns of global wildfires and trends;*
- *Role of changing climate and weather patterns for the trends in wildfire occurrence;*
- *Operational wildfire mentoring through LEO satellites;*
- *Hyper-temporal thermal anomaly detection through geostationary satellite data;*
- *Fire vulnerability using space based inputs;*
- *Dynamic fire vulnerability algorithm and its applicability in Developing regions;*
- *Fire propagation and spread modelling and Use of complex network algorithm*
- *Early warning systems for wild-fires: Case studies*
- *Use of Night time VIIRS data for Fire Mapping/Monitoring*

## Important links:

*Registration for the webinar through URL- [www.iirs.gov.in/webinar](http://www.iirs.gov.in/webinar)*

*ISRO E-CLASS- <https://eclass.iirs.gov.in>*

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