

**Wednesday, 16<sup>th</sup> August 2023**

**Session-7: Land-Cover/Land-Use Changes and Fires**

Session Chairs: Garik Gutman<sup>1</sup>, Krishna Vadrevu<sup>2</sup> and Chris Justice<sup>3</sup>

<sup>1</sup>NASA Headquarters, Washington, DC, USA

<sup>2</sup>NASA Marshall Space Flight Center, Huntsville, AL, USA

<sup>3</sup>University of Maryland College Park, MD, USA

**Agenda**

**Keynote Presentation**

**2:00:** *NASA Land-Cover/Land-Use Change (LCLUC) – Focus on South America* - Garik Gutman (NASA Headquarters, Washington DC, USA)

**Technical Presentations (15-minute presentation and 5-minute discussion)**

**2:45:** #164525 - *A Cloud-Based SAR-Optical Data Approach for Land Use And Land Cover Classification in a Tropical Area of Brazil* - Victor Hugo Rohden Prudente<sup>1</sup>, Meha Jain<sup>2</sup>, Haron Abrahim Magalhães<sup>3</sup>, Maristela Ramalho<sup>4</sup>, Marcos Adami<sup>5</sup>, Ieda Del’Arco Sanches<sup>6</sup> (<sup>1,2</sup> School for Environment and Sustainability - SEAS, University of Michigan (UofM), USA; <sup>3,4</sup> Brazilian Agricultural Research Corporation, Embrapa Roraima, Brazil, <sup>5,6</sup> Postgraduate Program in Remote Sensing, Earth Observation and Geoinformatics Division, National Institute for Space Research, Sao Jose dos Campos, Brazil)

**3:05:** #164475 - *Monitoring and Alerting Land Use and Land Cover Change for Decision-Making Using Earth Observations* - Stephanie A. Jiménez<sup>1</sup>, Brian Zutta<sup>2</sup>, Adeandro Mota<sup>3</sup> (<sup>1</sup>University of Alabama in Huntsville, Alabama, USA; <sup>2</sup>SERVIR Science Coordination Office, Marshall Space Flight Center, Alabama, USA; <sup>3</sup>Spatial Informatics Group, California, USA; <sup>3</sup>Institute of Agricultural and Forest Management and Certification (Imaflora), Brazil)

**3:25:** #164627 - *Use of Fire for Land Cover Changes (A Proposal)* - María Isabel Cruz López (National Commission for the Knowledge and Use of Biodiversity, México)

**3:45** #164667 - *Advances in Fire detection Comparisons* - Fabiano Morelli<sup>1</sup>, Victorino, P.<sup>2</sup> and Paulo Cunha<sup>2</sup> - <sup>1</sup>Instituto Nacional de Pesquisas Espaciais, SJC, Brazil; <sup>2</sup>Instituto Nacional de Pesquisas Espaciais, Brazil

**Tea Break**

4:05-4:30

**4:30** #164362 - *Fire Propagation Hazard Index (FPHI) for Argentina* - Laura P. Zalazar<sup>1</sup>, Nicolás A. Mari<sup>2</sup> - <sup>1</sup>Instituto de Diversidad y Ecología Animal (IDEA), Córdoba, Argentina; <sup>2</sup>Instituto Nacional de Tecnología Agrop667ecuaría (INTA), Córdoba, Argentina

**4:50 #164657**- *Time Series Analysis of Environmental Variables to Characterize Fire Risk – The Climate Risk Indices From Space Platforms (CRISP)* - Gerardo Lopez Saldana, Assimila Ltd., Reading Enterprise Center, University of Reading, UK

**5:10**

**Adjourn**

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#### **Agenda**

##### **Keynote Presentation**

**9:30:** *GEOGLAM and NASA HARVEST Agriculture Programs - Focus and Priorities* – Chris Justice (University of Maryland College Park, MD, USA)

##### **Technical Presentations (15-minute presentation and 5-minute discussion)**

**10:00:** **#163936** - *Trajectories of Losses and Gains Of Soybean Cultivation During Multiple Time Intervals In Western Bahia, Brazil* - Robert Gilmore Pontius Jr<sup>1</sup>, Thomas Bilintoh<sup>1</sup>, Gustavo de L. T. Oliveira<sup>1</sup>, and Julia Z. Shimbo<sup>4</sup> (<sup>1</sup>Clark University, Worcester MA, USA; <sup>2</sup>IPAM, Brasília)

**10:20**

##### **Tea Break**

**11:00:** **#164373** - *Crop Species Mapping to Understand the Agricultural Impacts of Conservation Policy in Paraguay* - Kendra Walker, Robert Heilmayr, Atahualpa Ayala and Lauren Sharwood (Conservation Economics Lab, University of California at Santa Barbara, USA)

**11:20:** **#163758** – *Comparative Space-Temporal Study Of The Spectral Response Of The Flora Of The Apa Of The Curu River Estuary (Ceará) and Surroundings Using Landsat Images* - Jorgeana de Almeida Jorge Benevides<sup>1</sup>, Anderson da Cruz Silva<sup>2</sup>, Daniel Jorge Almeida Benevides<sup>3</sup>, Luis Ernesto Arruda Bezerra<sup>4</sup>, Carlos Sérgio Rodrigues da Silva<sup>5</sup> (<sup>1</sup>Doutoranda do Programa de Pós-graduação em Ciências Marinhas Tropicais da Universidade Federal do Ceará (UFC), Brazil; <sup>2</sup>Mestre em Geografia, Universidade Estadual do Ceará (UECE); <sup>3</sup>Bacharel em Engenharia da Computação, Universidade Federal do Ceará (UFC); <sup>4</sup>Instituto de Ciências do Mar (LABOMAR),

Universidade Federal do Ceará; <sup>5</sup> Doutorando do programa de Pós-graduação em Matemática da Universidade Federal do Ceará (UFC)

**11:40: #163183** - *Burned Area Detection Using Convolutional Neural Networks And Sentinel-2 in Manacacias Natural Park* - Jesús A. Anaya<sup>1</sup>, Pratyush Tripathy<sup>2</sup>, Martin Reinhardt<sup>3</sup> (<sup>1</sup>Universidad de Medellín, Carrera; <sup>2</sup>University of California, Santa Barbara Department of Geography, USA; <sup>3</sup> Universität Leipzig, Germany)

**12:00: #164490** - *An Inter-American Capacity Exchange Network for Addressing Regional, National, and Local Challenges Associated with Land Cover / Land Use Change and Fire* - Natalia Bermudez<sup>1</sup>, Nancy Searby<sup>2</sup>, Eric R. Anderson<sup>1</sup>, Africa Flores<sup>1</sup>, Lauren Childs-Gleason<sup>3</sup>, Robert Chen<sup>4</sup> (<sup>1</sup>SERVIR, Alabama, <sup>2</sup>NASA Headquarters, <sup>3</sup>DEVELOP, <sup>4</sup>Center for International Earth Science Information Network/CIESIN; all USA)

**12:20: #164537** - *Integration Of Decision Support Systems (DSS) In Forest Fire Management In Latin America And Africa* - Alexander Ariza Pastrana<sup>1</sup>, Juan Carlos Villagrand<sup>2</sup>, Marina Robredo Irizar<sup>3</sup> (<sup>1</sup>Visiting Scientist of the UN-SPIDER Program; <sup>2</sup>Programme Officer Head, UN-SPIDER Bonn Office UN-SPIDER Programme Office for Outer Space Affairs United Nations Bonn, Germany; <sup>3</sup>Project Management GeoWay, Berlin, Germany)

**Adjourn**

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### **GOFC-GOLD RedLaTIF Network Meeting**

**Thursday, 17<sup>th</sup> August, 2023**

**2:00-5:00pm**

**Closed Door Meeting**

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### **Training Session (Open to All)**

**Friday, 18<sup>th</sup> August, 2023**

**2:00-5:00 pm**

**Satellite Remote Sensing of Fires – Priorities in South American Countries**

Nicolas Mari<sup>1</sup>, Fabiano Moreli<sup>2</sup> and Isabel Cruz<sup>3</sup>

<sup>1</sup>Instituto Nacional de Tecnología Agrop667ecuaría (INTA), Córdoba, Argentina

<sup>2</sup>INPE, Brazil

<sup>3</sup>National Commission for the Knowledge and Use of Biodiversity, México

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