

Costa Rica RA-IV Virtual Training on Satellite Applications

October 2020

Official Agenda (as of 22 October)

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| Color Codes | Presentations and Panels | Hands-on Activities and Discussions |
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| Time ☒ (Costa Rica) | Week 1 | | Week 2 | | Week 3 | |
|------------------------|--|--|---|---|---|---|
| | Wed Oct 14 | Thu Oct 15 | Wed Oct 21 | Thu Oct 22 | Wed Oct 28 | Thu Oct 29 |
| 9:00-9:10 | Introductions Presenter: Marcial Garbanzo (UCR) | REFLECTION 1 “Polar vs Geostationary Products.” <i>Instructors:</i> Bernie Connell (CIRA) Marcial Garbanzo (UCR) José Gálvez (SRG/NOAA) | REFLECTION 2 “Spectral Signature of Surfaces.” <i>Instructors:</i> Bernie Connell (CIRA) José Gálvez (SRG/NOAA) <i>Consultation:</i> Marcial Garbanzo (UCR) | REFLECTION 3 “Applications into Weather Forecasting.” <i>Instructor:</i> José Gálvez (SRG/NOAA) <i>Consultation:</i> Bernie Connell (CIRA) Marcial Garbanzo (UCR) | REFLECTION 4 “Applications into Aviation.” <i>Instructors:</i> Bernie Connell (CIRA) Marcial Garbanzo (UCR) José Gálvez (SRG/NOAA) | REFLECTION 5 “GLM Applications.” <i>Instructors:</i> Marcial Garbanzo (UCR) José Gálvez (SRG/NOAA) <i>Consultation:</i> Bernie Connell (CIRA) |
| 9:10 - 9:40 | PRESENTATION 1 “NOAA’s Role in optimizing the use of satellite information.” <i>Presenter: Mitch Goldberg (NOAA)</i> | | | | | |
| 9:40 - 10:00 | PRESENTATION 2 “WMO’s Role in optimizing the use of satellite information.” | | | | | |
| 10:00-10:10 | <i>Presenter: Rodney Martínez (WMO)</i> | 30-MIN BREAK | 30-MIN BREAK | 30-MIN BREAK | PRESENTATION 8 “NASA’s role in optimizing the use of satellite information.” <i>Presenter:</i> Sandra Cauffman (NASA) | 30-MIN BREAK |
| 10:10-10:30 | 20-MIN BREAK | | | | | |
| 10:30 - 11:00 | PRESENTATION 3 “Overview of Satellite products and tools and Introduction to access.” | PRESENTATION 4 ☆ “Atmospheric Radiation. Detecting Fires, Cloud Phase and Vegetation.” | PRESENTATION 5 ☆ “RGB Compositing: Day Cloud Phase Distinction and Night Microphysics RGBs” | PRESENTATION 6 “Communicating your forecast.” <i>Presenters:</i> Gabriela Chinchilla (IMN) Daniel Poleo (IMN) | 30-MIN BREAK | PARTICIPANT SESSION 4 1. Red Tide monitoring with polar orbiting satellites. 2. Monitoring using GOES-16 for active volcanoes in |

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| | <i>Presenters: Marcial Garbanzo (UCR) Diego Souza (INPE)</i> | <i>Presenters: Bernie Connell (CIRA) José Gálvez (SRG/NOAA)</i> | <i>Presenter: José Gálvez (SRG/NOAA)</i> | <i>Hugo Hidalgo (UCR)</i> | | Guatemala.. <i>Presenter: Alan García</i> |
| 11:00-11:30 | | | | | PRESENTATION 9 "Geostationary Lightning Mapper (GLM)." <i>Presenters: Marcial Garbanzo (UCR) José Gálvez (SRG/NOAA)</i> | ★ PARTICIPANT SESSION 5 Heavy rains during national days in the Valley of Mexico <i>Presenter: Nayeli Loza</i> |
| 11:30-12:00 | | | | | | PARTICIPANT SESSION 6 Topic: Participant Presentation on Satellite Applications. <i>Presenter: Kleiver García, Ingeniero Hidrometeorologista, Instituto Nacional de Meteorología e Hidrología,</i> |
| 12:00 - 13:30 | 1-HOUR LUNCH BREAK | | 1-HOUR LUNCH BREAK | | 1-HOUR LUNCH BREAK | |
| 13:30 - 14:30 | HANDS-ON 1 "Application of Polar vs Geostationary Products." <i>Instructors: Bernie Connell (CIRA) Marcial Garbanzo (UCR) José Gálvez (SRG/NOAA)</i> | HANDS-ON 2 "Spectral Signature of Surfaces: Python and McIDAS Exercises." <i>Instructors: Bernie Connell (CIRA) Consultation: José Gálvez (SRG/NOAA) Marcial Garbanzo (UCR)</i> | HANDS-ON 3 "Application of Satellite Tools into Weather Forecasting." <i>Instructor: José Gálvez (SRG/NOAA) Consultation: Bernie Connell (CIRA)</i> | PRESENTATION 7 "Satellite Applications into Aviation Hazards." <i>Presenter: Amanda Terborg (AWC) Ty Higginbotham (AWC) Translator: José Gálvez (SRG/NOAA).</i> | HANDS-ON 4 "GLM in the Operational Environment." <i>Instructors: Marcial Garbanzo (UCR) José Gálvez (SRG/NOAA) Consultation: Bernie Connell (CIRA)</i> | PANEL "Professional development and regional connections." <i>Panelists: Rodney Martínez (WMO) Berta Olmedo (CRRH) Werner Stolz (IMN), Evelyn Quiroz (DGAC) Marcial Garbanzo (UCR) Bernie Connell (CIRA) Berny Fallas (ICE)</i> |
| 14:30-14:45 | 15-MIN BREAK | | 15-MIN BREAK | | 15-MIN BREAK | |
| 14:45 - 15:15 | HANDS-ON 1 "Polar Perspective." <i>Instructors: Bernie Connell (CIRA) Marcial Garbanzo (UCR) José Gálvez (SRG/NOAA)</i> | HANDS-ON 2 "Spectral Signature of Surfaces: Python and McIDAS Exercises." | HANDS-ON 3 "Application of Satellite Tools into Weather Forecasting." | PARTICIPANT SESSION 1 "NOAA BDP para el acceso en tiempo real a datos de los satélites de la serie GOES-R " <i>Presenter: Jorge Bravo</i> | HANDS-ON 4 "GLM in the Operational Environment." | PANEL continued "Professional development and regional connections." |

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| 15:15-15:30 | | <i>Instructors:</i> Bernie Connell (CIRA) Marcial Garbanzo (UCR) <i>Consultation:</i> José Gálvez (SRG/NOAA) | <i>Instructor:</i> José Gálvez (SRG/NOAA) <i>Consultation:</i> Bernie Connell (CIRA) | PARTICIPANT SESSION 2 “Satellite meteorology in the optimization of air routes.” <i>Presenters: Evelyn Quirós</i> | <i>Instructors:</i> Marcial Garbanzo (UCR) José Gálvez (SRG/NOAA) <i>Consultation:</i> Bernie Connell (CIRA) | |
| 15:30 - 15:45 | 15-MIN BREAK | | 15-MIN BREAK | | 15-MIN BREAK | |
| 15:45-16:00 | HANDS-ON 1 “Geostationary Perspective.” <i>Instructors:</i> Bernie Connell (CIRA) Marcial Garbanzo (UCR) José Gálvez (SRG/NOAA) | HANDS-ON 2 “Spectral Signature of Surfaces: Python and McIDAS Exercises.” <i>Instructors:</i> Bernie Connell (CIRA) Marcial Garbanzo (UCR) <i>Consultation:</i> José Gálvez (SRG/NOAA) | HANDS-ON 3 “Application of Satellite Tools into Weather Forecasting.” <i>Instructor:</i> José Gálvez (SRG/NOAA) <i>Consultation:</i> Bernie Connell (CIRA) | 15-MIN BREAK | HANDS-ON 4 “GLM in the Operational Environment.” <i>Instructors:</i> Marcial Garbanzo (UCR) José Gálvez (SRG/NOAA) <i>Consultation:</i> Bernie Connell (CIRA) | REFLECTION 6 “Workshop Summary” <i>Instructors:</i> Bernie Connell (CIRA) Marcial Garbanzo (UCR) José Gálvez (SRG/NOAA). |
| 16:00 - 16:30 | | | | PARTICIPANT SESSION 3 Satellite data storage and processing system for the national earth observation laboratory <i>Presenters: Alejandro Aguilar y Víctor Manuel Jiménez</i> | | |
| 16:30 - 16:45 | ASSIGNMENT OF HOMEWORK 1 “Geostationary vs Polar Products.” | ASSIGNMENT OF HOMEWORK 2 “Spectral Signature of Surfaces.” | ASSIGNMENT OF HOMEWORK 3 “Applications into Weather Forecasting.” | ASSIGNMENT OF HOMEWORK 4 “Satellite Applications into Aviation.” | ASSIGNMENT OF HOMEWORK 5 “GLM Applications” | FINALIZATION |

*Associated with a module provided before the training. ☒ Costa Rica Time is UTC-6 (e.g. 9:00 am = 15:00 UTC).