

## TRAINING WORKSHOP : USE OF CLOUD COMPUTING FOR SATELLITE DATA PROCESSING

DATE	9:00am-10:45am	10:45am-11:00am	11:00am-12:30pm	12:30pm-1:30pm	1:30pm-3:30pm	3:30pm-4:00pm
27-Sep-21	<b>(Module 1 - Basics to Earth Engine and Github)</b> <ul style="list-style-type: none"> <li>• Overview of GEE</li> <li>• Introduction to GEE code editor</li> </ul>	Short Break	<ul style="list-style-type: none"> <li>• Introduction to JavaScript</li> <li>• GEE objects, strings, lists, Arrays</li> </ul>	Lunch Break	Interaction with GitHub interface	Hands on Exercise
28-Sep-21	<b>(Module 2 - ImageCollections and FeatureCollections)</b> <ul style="list-style-type: none"> <li>• Introduction to the concept of image and feature collections in GEE</li> <li>• Filtering, reducing, mosaicking, cloud masking, clipping and working with image collections</li> </ul>	Short Break	<b>(Module 3 - Exploring Spatial Indices and GEE Products)</b> <ul style="list-style-type: none"> <li>• Accessing and displaying satellite imagery through the GEE Code Editor</li> <li>• Asset management (importing and exporting data)</li> <li>• Hands-on exercises</li> </ul>	Lunch Break	<ul style="list-style-type: none"> <li>• Exploring spectral indices (NDVI, NDBI, LSWI, TC-G, TC-B, TC-W)</li> <li>• Forest/Deforestation monitoring with data exploration (Introduction to Global Forest Change datasets)</li> </ul>	Hands on Exercise
29-Sep-21	<b>(Module 4 - Machine Learning Classification Algorithms)</b> <ul style="list-style-type: none"> <li>• Introduction to Machine Learning and Classification</li> <li>• Introduction to change detection</li> </ul>	Short Break	<ul style="list-style-type: none"> <li>• Supervised classification and sampling</li> <li>• Unsupervised Classification and segmentation</li> </ul>	Lunch Break	<ul style="list-style-type: none"> <li>• Accuracy assessment in GEE</li> <li>• Random Forest Classification for land change assessment</li> </ul>	Hands on Exercise
30-Sep-21	<b>(Module 5 - Time Series)</b> <ul style="list-style-type: none"> <li>• Introduction to time series analysis</li> <li>• Time-Series Charts</li> </ul>	Short Break	<ul style="list-style-type: none"> <li>• Charting and creating custom Uis</li> </ul>	Lunch Break	<ul style="list-style-type: none"> <li>• Publishing an App in GEE</li> </ul>	Hands on Exercise
1-Oct-21	<b>(Module 6 -Land Use and Land Cover Classification)</b> <ul style="list-style-type: none"> <li>• Land use and Land cover classification</li> </ul>	Short Break	<ul style="list-style-type: none"> <li>• Create land cover data for the project area of interest</li> </ul>	Lunch Break	<ul style="list-style-type: none"> <li>• Map generation in QGIS</li> <li>• Wrap up</li> </ul>	Closing and Certificate presentation