

Training and Technology Transfer:
“Advanced training course on the use of SENTINEL-1 SAR data”

Paris, France, 30 November to 4 December 2015

REDD+ for the Guiana Shield project
www.reddguianashield.com

DAY 1 – Monday 30 November

08:45	Meeting at ONF international office
09:00 – 9:30	Round table introduction & presentation of the week program
09:30 – 10:00	Introduction to SENTINEL-1 data products
10:00 – 10:45	Presentation of Sentinels Scientific Data Hub & data request
10:45 – 11:00	<i>Coffee break</i>
11:00 – 11:30	Presentation & delivery of the Guiana Shield SENTINEL-1 mosaic, raw data and SENTINEL catalog
11:30 – 12:00	SENTINEL-1 mosaic production: material & method
12:00 – 13:00	Introduction to SNAP software
13:00 – 14:00	<i>Lunch</i>
14:00 – 17:30	Replication of mosaic production steps using SNAP & automated tools: Calibration & Multilooking to 20m
	<i>Coffee break in the middle of the afternoon session</i>

DAY 2 – Tuesday 1 December

09:00 – 13:00	Replication of mosaic production steps using SNAP & automated tools: Radiometric correction, Orthorectification, Color composition and mosaicking
	<i>Coffee Break in the middle of the morning session</i>
13:00 – 14:00	<i>Lunch</i>
14:00 – 14:30	Assessment of spatial accuracy and precision of SENTINEL-1 orthos with Landsat 8
14:30 – 17:30	Comparison of SENTINEL-1 response with ALOS SAR and optical data: resolution, polarization, detection of specific features including gold mining based on optical results
	<i>Coffee break in the middle of the afternoon session</i>

DAY 3 – Wednesday 2 December

09:00 – 13:00	Practical exercise: Manual detection of specific LULC types on AOI using SENTINEL-1
	<i>Coffee Break in the middle of the morning session</i>
13:00 – 14:00	<i>Lunch</i>
14:00 – 17:30	Practical exercise: Automatic detection of specific LULC types on AOI using SENTINEL-1
	<i>Coffee break in the middle of the afternoon session</i>

DAY 4 – Thursday 3 December

09:00 – 11:00	Practical exercise: Comparison of SENTINEL-1 digitizing results with optical data
11:00 – 11:15	<i>Coffee Break</i>
11:15-13:00	Presentation of digitizing results by each participant & discussion
13:00 – 14:00	<i>Lunch</i>
14:00 – 15:30	Demonstration of multi-temporal analysis performed with Sentinel-1 data
15:30-15:45	<i>Coffee break</i>
15:45-17:30	Replication of multi-temporal analysis performed with Sentinel-1 data

DAY 5 – Friday 4 December

09:00 – 11:00	Combination of SAR and optical data to produce LULC maps
11:00 – 11:15	<i>Coffee Break</i>
11:15-13:00	Practical exercise : Combination of SAR and optical data to produce LULC maps
13:00 – 14:00	<i>Lunch</i>
14:00 – 17:30	Potential of SENTINEL-1 to improve LULC monitoring systems in the Guiana Shield: Perspectives, discussions and conclusion
	<i>Coffee break in the middle of the afternoon session</i>