

Program STARS Technical Workshop, 12 – 16 October 2015, Dakar, Senegal

PROGRAM OVERVIEW

Time	Monday 12 Oct – Field data day	Tuesday 13 Oct – UAV day	Wednesday 14 Oct – Satellite day 1 - processing	Thursday 15 Oct – Satellite day 2 - products	Friday 16 Oct – Collaboration/publication/ Commitments day
2hours	1.1. Intro workshop objectives introduction participants project overview	2.1. UAV field operations: collecting field spectra, use of calibration panels, flight protocols	3.1. Satellite image workflows (all kinds of images) geometric, spectral and image-to-image co-registration + CSSL part I (populating with satellite data and preparing for algorithms)	4.1. Satellite images: analysis methods, algorithms, operational information streams and planned products	5.1. Discussion various topics
2hours	1.1. Intro workshop objectives introduction participants project overview 1.2a. Field data collection by partners sharing protocols and experiences harmonizing work	2.2. eBee: NIR and Multi-spectral cameras			
LUNCH					
2hours	1.2b. Field data collection by partners sharing protocols and experiences harmonizing work	2.3. Octocopter: RGB, miniMCA and Thermal cameras	3.2. Social event	4.2. Cross-comparison of algorithms. Designing inter-regional round robin exercises	5.2. Miscellaneous
2hours	1.3. Storing and curating data building a common data repository			4.3 Populating the CSSL (part II)	5.3 Wrap-up
DINNER					

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PROGRAM MONDAY 12 OCTOBER

Time	Monday 12 Oct	Presentations/demos
09:00 - 10:50	1.1. Intro workshop objectives introduction participants project overview	<ul style="list-style-type: none"> • MO1 - Welcome, Program and Logistics, Chiel / ITC • MO2 - UMD Project overview / Objectives, Jan / UMD • MO3 - CIMMYT Project overview / Objectives, Urs / CIMMYT
Coffee/tea break		
11:05 - 13:00	1.1. Intro workshop objectives introduction participants project overview 1.2a. Field data collection by partners sharing protocols and experiences harmonizing work	<ul style="list-style-type: none"> • MO4 - ICRISAT Project overview / Objectives, Sibiry / ICRISAT • MO5 - Collection of GPS data / GCPs, Azim / CIMMYT • MO6 - Crop identification / collection of ground truth data, Khairul & Mustafa / CIMMYT
LUNCH		
14:00 - 15:55	1.2b. Field data collection by partners sharing protocols and experiences harmonizing work	<ul style="list-style-type: none"> • MO7 - Field data collection methods and eBee field experience, Sixbert / UMD-Sokoine • MO8 - Hyperspectral data, Rokon & Azim / CIMMYT • MO9 - Field data collection and data streams, Issa, Tukur & Xavier / ICRISAT
Coffee/tea break		
16:10 - 18:00	1.3. Storing and curating data building a common data repository	<ul style="list-style-type: none"> • MO10 - Use of GeoODK, eBee and area frame sampling for food security monitoring, Catherine / UMD • MO11 - SQL database, Emran & Azim / CIMMYT • MO12 - Quality check and use of the JotBi platform, ODK and sqlite tools for field data, Daniel & Xavier / ICRISAT
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PROGRAM TUESDAY 13 OCTOBER

Time	Tuesday 13 Oct	Presentations/demos
08:30 - 10:20	2.1. UAV field operations: collecting field spectra, use of calibration panels, flight protocols	<ul style="list-style-type: none"> • TU1 - eBee data collection protocol, mission planner, cloud shadow/BRDF parameters, Jyothy / UMD • TU2 - GCPs, eBee flight clusters & operations, Issa, Tukur & Xavier / ICRISAT
Coffee/tea break		
10:35 - 12:30	2.2. eBee: NIR and Multi-spectral cameras	<ul style="list-style-type: none"> • TU3 - Processing of RGB images, Mustafa & Khairul / CIMMYT • TU4 - Ground cover from RGB photos, Atik & Mustafa / CIMMYT • TU5 - Ground cover estimation using Multispectral cameras, Emran, Zia Uddin / CIMMYT • TU6 - Estimation of LAI using Pocket LAI and Sun Scan, Atik / CIMMYT
LUNCH		
13:30 - 15:25	2.3a. Octocopter: RGB, miniMCA and Thermal cameras	<ul style="list-style-type: none"> • TU7 - UAV pre-processing in Mali, Birama, Gilbert & Xavier / ICRISAT • TU8 - Calibration of miniMCA data, Azim & Rocon / CIMMYT • TU9 - Processing of thermal imagery, Azim & Khairul / CIMMYT
Coffee/tea break		
15:40 - 17:30	2.3b. Octocopter: RGB, miniMCA and Thermal cameras	<ul style="list-style-type: none"> • TU10 - Image stitching with ISAM-CIP, demo and discussion, Dimitris / ITC • TU11 - Processing of multispectral images with AgiSoft, Mustafa, Azim & Amirul / CIMMYT
DINNER		

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PROGRAM WEDNESDAY 14 OCTOBER

Time	Wednesday 14 Oct	Presentations/demos
08:30 - 10:20	3.1a. Satellite image workflows (all kinds of images) geometric, spectral and image-to-image co-registration + CSSL part I (populating with satellite data and preparing for algorithms)	<ul style="list-style-type: none"> • WE1 - Creation of digital surface models and base layers with a RTK-eBee, Lorena / CIMMYT • WE2 - The overall satellite image workflow automation, Dimitris / ITC • WE3 - Image co-registration at very high spatial resolutions, Valentyn /ITC
Coffee/tea break		
10:35 - 12:30	3.1b. Satellite image workflows (all kinds of images) geometric, spectral and image-to-image co-registration + CSSL part I (populating with satellite data and preparing for algorithms)	<ul style="list-style-type: none"> • Parallel sessions
LUNCH		
14:00 -	3.2. Social event	
DINNER		

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PROGRAM THURSDAY 15 OCTOBER

Time	Thursday 15 Oct	Presentations/demos
08:30 - 10:20	4.1a. Satellite images: analysis methods, algorithms and planned products	<ul style="list-style-type: none"> • TH1 - Hyperspectral \times Yield – preliminary results and data mining, Francelino /CIMMYT • TH2 - Object-based Image Analysis of eBee Imagery for crop identification, Caspar & Jyothy / UMD
Coffee/tea break		
10:35 - 12:30	4.1b. Satellite images: analysis methods, algorithms and planned products	<ul style="list-style-type: none"> • TH3 - Weeding in image data, Wietske / ITC • TH4 - Crop recognition approach for heterogenous agricultural landscape Xavier / ICRISAT • TH5 - Crop identification from WV-2/RapidEye time series, Jan or Jyothy & Caspar / UMD
LUNCH		
13:30 - 15:25	4.2. Cross-comparison of algorithms. Designing inter-regional round robin exercises	<ul style="list-style-type: none"> • TH6 - Data merging from different data sources – Remote and Proximal sensing, Francelino / CIMMYT • TH7 - Using STARS libraries: towards a comparison of algorithms across study areas, Raul / ITC
Coffee/tea break		
15:40 - 17:30	4.3. Populating the CSSL (part II)	<ul style="list-style-type: none"> • TH8 - Design of the CSSL and what's next, Rolf / ITC
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PROGRAM FRIDAY 16 OCTOBER

Time	Friday	Presentations/demos
09:30 - 10:20	5.1. Discussion various topics	<ul style="list-style-type: none"> • Bilateral/trilateral/etc.
Coffee/tea break		
10:35 - 12:30	5.1. Discussion various topics	<ul style="list-style-type: none"> • Bilateral/trilateral/etc.
LUNCH		
13:30 - 15:25	5.2. Miscellaneous	<ul style="list-style-type: none"> • Knowledge portal, Gerald Forkuor / ITC • The STARS-CIP connection, Rolf & Raul / ITC • STARS general meeting of July 2016, Rolf & / ITC: towards a shared agenda
Coffee/tea break		
15:40 - 17:30	5.3. Wrap-up	
DINNER		