





SERVIR SCO INTERNAL VIC TRAINING

Draft Training Agenda

Training Dates: 15-17 February 2017

Training Objectives

The specific objectives of the workshop are to:

- 1. Provide an overview on the background and physics of the Variable Infiltration Capacity (VIC) model;
- 2. Train participants on how to setup and their own VIC model for specific applications; and
- 3. Highlight research applications of the VIC model and discuss VIC's development roadmap

Expected Outcomes

By the end of the training, participants will:

- 1. Have an understanding of the VIC model structure and model physics;
- 2. Be able to set up a VIC model for their own domain and specific application; and
- 3. Have an understanding of hydrologic modeling applications and VIC developments through GitHub.

Prerequisites

- 1. Background in hydrology/hydrologic modeling,
- 2. Experience with Linux and command line operations,
- 3. Basic understanding of Python scripting, and
- 4. Ideas for hydrologic modeling applications

Agenda

	Time	Activity
	9:00 AM – 10:30 AM	VIC overview (Model physics and assumptions)
Day I: VIC Overview	10:30 AM – 10:45 AM	Coffee break
	10:45 AM – 12:00 PM	VIC Overview (Model inputs/additional features)
	12:00 PM - 1:00 PM	Lunch
	1:00 PM - 1:30 PM	VIC installation/running the model
	1:30 PM – 2:30 PM	VIC application on small watershed
Da	2:30 PM – 2:45 PM	Break
	2:45 PM – 3:30 PM	Summary of the day







	9:00 AM – 10:00 AM	VIC I/O formatting
	10:00 AM – 10:45 AM	Nyando Basin model setup (Soil and vegetation parameters)
	10:45 AM – 11:00 AM	Coffee break
Model	11:00 AM – 12:00 PM	Nyando Basin model setup (Vegetation library and meteorological forcing files)
sin N	12:00 PM - 1:00 PM	Lunch
Day 2: Nyando Basin Model	1:00 PM – 2:00 PM	Nyando Basin model setup (Global parameters, running the model, and formatting outputs)
<i>2</i> : Nya	2:00 PM – 2:45 PM	Nyando Basin model setup (Routing inputs and running the routing model)
Бау	2:45 PM – 3:00 PM	Break
	3:00 PM – 4:15 PM	Nyando Basin model setup (Validation, final outputs and visualization of data)
	4:15 PM – 5:00 PM	Summary of the day
	9:00 AM – 10:45 AM	Bias correction of satellite precipitation products
ics	10:45 AM – 11:00 AM	Break
Тор	11:00 AM – 12:00 PM	VIC Applications (Hydro-crop model coupling)
cial '	12:00 PM - 1:00 PM	SERVIR SCO Team Lunch
Spe	1:00 PM – 2:00 PM	VIC Applications (Climate/land cover change impacts)
Day 3: VIC Special Topics	2:00 PM – 3:00 PM	Calibrating VIC
, 3 .	3:00 PM – 3:15 PM	Break
Day	3:15:PM – 4:00 PM	VIC development/new releases
	4:15 PM – 5:00 PM	Summary of the day