TRAINING

Capacity building on Earth observation and GIT for in-season crop mapping, yield estimation, and damage assessment

15–19 April 2024 | Bardibas, Mahottari

22–23 April 2024 | ICIMOD, Lalitpur

Agenda

Date	Programme
15 April 2024 **9:00 – 17:00**	Introduction and interaction with the ICIMOD team – **MoALD** Pre-training assessment and photo session – **Poonam Tripathi,** ICIMOD Welcome remarks – **MoALD** Overview of MoALD and ICIMOD collaboration on rice area estimation on terai belt – **MoALD** SERVIR-HKH activities on agriculture and food security – **Rajesh Bahadur Thapa**, ICIMOD **Tea break** Earth observation tools and technology for agriculture and climate risk management – **Sravan Shrestha**, ICIMOD GIS concepts and applications – **Poonam Tripathi**, ICIMOD **Lunch** **Hands-on session** QGIS installation Vector data exploration and visualisation in QGIS – **Chet Bahadur Roka,** MoALD; **Poonam Tripathi** and **Sravan Shrestha**, ICIMOD
16 April 2024 **9:00 – 17:00**	**Reflection from the Previous day** **Hands-on session** Vector data exploration and visualisation in QGIS – **Chet Bahadur Roka**, MoALD; **Poonam Tripathi** and **Sravan Shrestha**, ICIMOD **Lunch** RS concepts and applications – **Poonam Tripathi**, ICIMOD Exploration and analysis of raster data in QGIS –**Richa Shah**, MoALD;

	Poonam Tripathi, ICIMOD Satellite data visualisation and interpretation – **Richa Shah**; MoALD, **Poonam Tripathi**, ICIMOD
17 April 2024 **9:00 – 17:00**	**Reflection from the previous day** **Hands-on session** Cartographic map production – **Richa Shah**, MoALD; **Poonam Tripathi, Sravan Shrestha**, ICIMOD Geospatial analysis for agro-ecological zonation by using multi-criteria suitability –**Poonam Tripathi** and **Sravan Shrestha**, ICIMOD
18 April 2024 **9:00 – 17:00**	**Reflection from the previous day** Introduction to yield estimation methodology – **Varaprasad Bandaru**, USDA Initial results sharing of rice yield estimation – **Varaprasad Bandaru**, USDA Introduction to Regional Drought Monitoring Outlook System and demonstration of National Drought Outlook – **Sravan Shrestha**, ICIMOD **Hands-on session** Project Team – **Sravan Shrestha** and **Poonam Tripathi**, ICIMOD
19 April 2024	**Reflection from the previous day** Project work – **Poonam Tripathi and Sravan Shrestha**, ICIMOD Reflection on the overall training – **Chet Bahadur Roka**, MoALD Post-training assessment – **Poonam Tripathi**, ICIMOD **Certificate distribution** Closing remarks – ICIMOD/ MoALD **Lunch** Field visit to the agricultural land in Bardibas, Mahottari, with the USDA team

Training on the SWAT Model and its application

22–23 April 2024, ICIMOD, Lalitpur

Day 01 – 22 April 2024

Time	Agenda	Presenter	Materials
9:00 – 9:15	Opening remarks	Birendra Bajracharya, Rajesh Thapa, Faisal Qamer	
9:00 – 9:30	Introduction to the SWAT Model and its applications	Raghavan Srinivasan (virtually)	Slides
9:30 – 11:00	Software installation and Introduction to the QSWAT interface	Arun Bawa	Slides/websites/ software
11:00 – 12:00	Input requirements and data preparation	Arun Bawa	Slides/websites/ software
12:00 – 13:00	Break		
13:00 – 14:00	Input requirements and data preparation II	Arun Bawa	Slides/websites/ software
14:00 – 15:00	Watershed delineation	Arun Bawa	Slides/websites/ software
15:00 – 16:00	Introduction to HRUs	Raghavan Srinivasan (Virtually)	Slides
16:00 – 16.15	Day I- concluding remarks	Varaprasad Bandaru, Arun Bawa & participants	

Day 02 – 23 April 2024

Time	Agenda	Presenter	Materials
9:00 – 9:15	Day 1 Recap	Arun Bawa	
9:15 – 10:00	Land use and soil overlays and HRU definition	Arun Bawa	Slides
10:00 – 11:00	Weather and remaining inputs to develop SWAT model	Arun Bawa	Slides/websites/ software
11:00 – 12:00	Editing SWAT	Arun Bawa	Slides/websites/

	database and run baseline scenario		software
12:00 – 13:00	Break		
13:00 – 14:00	Review of summary outputs & Visualisation and interpretation of SWAT outputs through SWAT Check	Arun Bawa	Slides/websites/ software
14:00 – 15:00	SWAT model application discussion and Editing input files	Arun Bawa	Slides/websites/ software
15:00 – 16:00	HAWQS introduction and applications	Arun Bawa	website
16:00 – 16:15	Day II- concluding remarks	Varaprasad Bandaru, Arun Bawa & participants	