



Capacity Development on Digital Soil Mapping

Amman, Jordan, 29 November-7December 2015

(29/11/2015) Focus: Welcome, introduction, Soil Survey requirements Program

TIME	TOPIC	
9:00 am - 10:00 am	Welcome and registration	Mahmoud Ferihat
10:00 am – 10:40 am	Opening remarks and introduction to GSP	
10:40 am - 11:30 am	Official opening of the DSM training program	
11:30 am - 12:00 am	COFFEE BREAK	
12:00 am - 13:00	Introduction: Soil mapping requirements, soil survey techniques & tools	Mahmoud Ferihat
13:00 - 14:30 pm	Database input requirements	
14:30 pm - 15:30 pm	LUNCH	
15:30 pm - 16:15 pm	Soil Survey Procedure, survey equipment, Arial photo, base map...etc.	Mahmoud Ferihat
16:15pm - 17:00 pm	Soil Calcification, Taxonomy, WRB	

(30/11/2015) Focus: Welcome, introduction, DSM requirements

TIME	TOPIC	EVALUATION
9:00 am - 9:30 am	Introduction to DSM software	Christian Thine
9:30 am - 10:30 am	Hands-on familiarity with DSM software	
10:30 am - 11:00 am	COFFEE BREAK	
11:00 am - 12:00	Hands-on familiarity with DSM software	Christian Thine
12:00 - 13:30 pm	Hands-on familiarity with DSM software	
13:30 pm - 14:30 pm	LUNCH	
14:30 pm - 15:00 pm	Integrating DSM software	Christian Thine
15:00 pm - 4:00 pm	Hands-on familiarity of integrating DSM software	
4:00 pm - 4:15 pm	COFFEE BREAK	



(01/12/2015) : DSM steps and input data processing

Time	TOPIC	Evaluation
8:30 am – 9:30 am	Input data preparation and assessment	Christian Thine
9:30 am – 10:30 am	Hands-on input data preparation	
10:30 am – 11:00 am	COFFEE BREAK	
11:00 am – 12:00	Hands-on input data preparation	Christian Thine
12:00 - 13:30 pm	Hands-on input data preparation	
13:30 pm – 14:30 pm	LUNCH	
14:30 pm – 15:00 pm	Hands-on input data pre-process	Christian Thine
15: 00 pm – 16:00 pm	Hands-on input data pre-process	
16:00 pm – 16:30 pm	Assignment on pre-processing of own data	
16:00 pm - 16:30 pm	COFFEE BREAK	

(02/12/2015) Focus: Regression modelling

TIME	TOPIC	EVALUATION
8:30 am - 9:30 am	Introduction to R	Christian Thine
9:30 am - 10:30 am	DSM modelling using R (regression modelling and other methods)	
10:30 am - 11:00 am	COFFEE BREAK	
11:00 am - 12:00	Hands-on regression modelling using R	Christian Thine
12:00 - 13:30 pm	Hands-on regression modelling using R	
13:30 pm - 14:30 pm	LUNCH	
14:30 pm - 15:00 pm	Other DSM modelling techniques	Christian Thine
15: 00 pm - 16:00 pm	Hands-on practice with other modelling methods	
16:00 pm – 16:30 pm	Developing digital soil map using own data	
16:15 pm - 16:30 pm	COFFEE BREAK	



(03/12/2015)

Time	TOPIC	Activity	Evaluation
8:30 am – 9:30 am	Input data preparation and assessment		Christian Thine
9:30 am – 10:30 am	Hands-on input data preparation	Practical	
10:30 am – 11:00 am	COFFEE BREAK		
11:00 am – 12:00	Hands-on input data preparation	Practical	Christian Thine
12:00 - 13:00 pm	Hands-on input data preparation	Practical	
13:00 pm –14:00 pm	LUNCH		
14:00 pm – 15:00 pm	Hands-on input data pre-process		Christian Thine
15: 00 pm – 16:00 pm	Hands-on input data pre-process	Practical	
16:15 pm – 16:30 pm	Assignment on pre-processing of own data		
16:00 pm - 16:30 pm	COFFEE BREAK		

Day 6(04/12/2015) Focus: Feld work

TIME	TOPIC	EVALUATION
9:00 am –12 pm	Methodology of soil survey Site and profile descriptions- Auger Bores	Mahmoud Ferihat
12:00 am - 13:00	LUNCH	
13:00 - 17:00	Site descriptions ,co-ords, aspect, altitude,position,location,texture,slope,micro relief, land use, etc.	Mahmoud Ferihat
Arco- logical site visit	Petra	



(05/12/2015) Focus: DSM accuracy assessment

TIME	TOPIC	EVALUATION
8:30 am - 9:30 am	DSM modelling accuracy assessment and standardization	Christian Thine
9:30 am - 10:30 am	Hands-on accuracy assessment and presentation	
10:30 am - 11:00 am	COFFEE BREAK	
11:00 am - 12:30	Hands-on accuracy assessment and presentation	Christian Thine
12:30 - 13:30 pm	Desiccation ion of case-studies	
13:30 – 14:30 pm	remarks	
14:00 pm - 15:00 pm	LUNCH	

(06/12/2015)

TIME	TOPIC	EVALUATION
9:00 am - 9:30 am	Introduction to : Site selection and Water harvesting suitability analysis in Badia of Jordan	Safa Mazahreh
9:30 am - 10:30 am		
10:30 am - 11:00 am	COFFEE BREAK	
11:00 am - 12:30	Exercise 1: site selection (identification of potential watershed): Applying criteria for first stage site selection A. Overlay analysis (Rainfall, soil and topography): B. Counting points-within-polygons (community):	Safa and Doaa
	12:30 - 14:30 pm	



	D. Using the scores to select the best watersheds:	
	<p>Exercise 2:</p> <p>Applying criteria for second stage site selection:</p> <p>A. Summarize values within polygons (soil depth example)</p> <p>B. Scoring watersheds according to community distribution (visual assessment)</p> <p>C. Calculating the final score of each watershed</p>	
13:30 pm - 14:30 pm		Safa and Doaa
14:30 pm - 15:00 pm	LUNCH	

(07/12/2015)

TIME	TOPIC	EVALUATION
9:00 am - 9:30 am	Part two: characterization of the selected watershed	
9:30 am - 10:30 am	<p>Exercise 3:</p> <p>Suitability maps for water harvesting</p> <p>A. Deriving slope map for the area</p> <p>B. Preparing field observations for analysis:</p>	Safa and Doaa



	C. suitability map based on slope units:	
10:30 am - 11:00 am	COFFEE BREAK	
11:00 am - 12:30	D. Suitability map based on field observations: E. Watershed delineation	
12:30 - 14:30 pm	F. Overlay subwatersheds with suitability maps	Safa and Doaa
13:30 pm - 14:30 pm	Exercise 4: Integrating suitability maps with cadastral maps A. Use the ownership area as selection criteria	Safa and Doaa
14:30 pm - 15:00 pm	LUNCH	