

LAND DEGRADATION - SOIL EROSION - AND LAND RESTORATION

Schedule

Date	Time	Items	Teachers
		PART I	
		M0. HOME. Review of material sent to students	
June Mon 7	08.00 8:30	Introduction and orientation M1.1 Land Degradation processes, world and EU perspectives	Soil Soc OA/JTh
	13.00 - 18.00	M1.2 Land degradation and development aid. M1.3 Project work. Literature research and reporting on global/EU soil erosion problems and available literature. Available books and internet. Short report.	JGP, OA TB
Tue 8	08.00 8:30 9:30 11 11:30	M2.1. Soil erosion processes, general overview M2.2. Wind erosion M.2.3. water erosion M2.4. Global assessment, problems and other international issues M2.5. Perspectives and discussion (if time!)	OA/TB OA TB OA OA/TB
	13.00 14.00	M2.6. Soil erosion in Iceland. Preparation for field trip M2.7. Field trip 1, West Iceland near Lbhí, Hvanneyri. LONG DAY	OA OA TB KL
Wed 9	08.00 09	M2 continued if necessary M3.1 Research tools for soil erosion. Trond and Anton. M3.2. Discussions, including wind erosion, water erosion, soils etc.	TB TB OA
	13.00	PROJECTS ON EROSION/DEGRADATION possibly some ecosystem function	
Thur 10	08.00 12.00	M4.1 Ecosystem functions and land degradation M4.2 Microbiology and ecosystem functions / degradation	HO KL et al
	13.00	M1-M4. Recap and discussions on M1-M4, project work and reporting.	All
		PART II	
Frid 11	08.00	M5. Principles of ecological restoration of degraded land M5.1 Overview and terms	ALA
	8:30 10:00 11:00	M5.2 Restoration of ecological function M5.3 Managing ecological succession M5.4 The restoration "toolbox"	
	13.00 14:00	M.5.5 Restoration in a local and global context M6. Ecological restoration in Iceland.	ALA et al.
	15.00- 18:00	M5-6. Project work, restoration ecology	
Sun 13		M6. Field trip II . To restoration areas and restoration research sites in South Iceland.	OA, ALA et al.
	08.00 10.00	From Hvanneyri to Gunnarsholt. Icelandic agriculture, landscapes. Icelandic SCS headquarters, facilities, lectures, Soil Conservation in Iceland	SCSI research staff
	13.00 18.00	M6. The Landbót, Gunnlaugsskógur and other research areas around Gunnarsholt: Short and long term effects of reclamation on soils, biota, ecosystem function, soil crust, etc.	SCSI research staff ALA, OA, BO et al.
Mon 14	08.00 12.00	M2-6. Field trip II continued. The massive Hekluškógar restoration project (reasons, goals, methods, socio-economic, natural ethics and other factors). Volcanology	ALA OA
	13.00	M7. Land degradation, geomorphology, volcanology, degradation, history	OA

	18.00	and society.	
Tue 15	08.00 12.00	Drylands and grazing ecology	S.Archer
	13.00 18.00	M8. Grazing ecology and land degradation	A G T
Wed 16	08.00 12.00	M9. Degradation and Synergies Land degradation, restoration and carbon sequestration (soils and other), and the UN environmental conventions (FCCC-BDS-CCD)	S.Archer
	13.00 18.00	Wrap up, projects etc.	All teachers
Home		NB NB Project write up and take home exam NB BN	
		M (M1-M9) stands for Module	
		HOME: TAKE HOME EXAM returned Tuesday 24.	

FIELD TRIPS

1. Hitardalur – Soil erosion.

Main target will be *Hitardalur*, (Hitar-valley) a valley that has a wealth of erosion and degradation processes present, including deserts. Abandoned farms. But also rich wetlands and variety of soils. Will include some light hiking.

2. Gunnarsholt. Restoration and Icelandic nature

The trip takes participants through the south agricultural lowlands to the headquarters of the Icelandic Soil Conservation Service (SCS). There are many research plots and restored areas at different stages of restoration (from complete deserts to forests).

ALA: Asa L. Aradóttir (Lbhí-Iceland)

KL: Kristina Lindstrom, UH, Finland

OA: Olafur Arnalds (Lbhí-Iceland)

SA: Steve Archer, University of Arizona

TB: Trond Borresen, UMB, Norway

JGP: Jon Geir Petursson (Ministry of Environment, Iceland).

J.Th. Johann Thorsson (Iceland Soil Conservation Service)

AGT: Anna Gudrun Thorhallsdottir (Lbhí – Iceland)

HO: Hlynur Oskarsson (Lbhí – Iceland)