

Course: Remote Sensing and Forest Inventory
 SG0227
 SLU Umeå, VT 2024
 Week 12

LECTURE Only first one obligatory	EXERCISE	SEMINAR *Obligatory
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	Monday	Tuesday	20-Mar Wednesday	21-Mar Thursday	22-Mar Friday	23-Mar	##
8							8
9							9
10			L1 Introduction to course Rönnen JB + TL	L3 Intro to subjects Common elements Intro to applications Rönnen TL	L4 Physics of remote sensing Årsringen PA		10
11							11
12							12
13			Lecture free afternoon	L2 Intro inventory data and sampling designs Rönnen AG	E1 Data display - contrast Histograms Extracting data		13
14							14
15							15
16							16
17							17

Week 13

25-Mar Monday	26-Mar Tues	27-Mar Wed	28-Mar Thurs	29-Mar Friday
L5 Satellite imagery Forest and veg info from RS Årsringen <i>JB</i>	E2 Classification of optical satellite data Own work	L9 Estim methods Quality /Acc assmt Årsringen <i>JB</i>		
L6 Geometry, Radiometry optical satellite data Årsringen <i>JB</i>	E2 Classification of optical satellite data Own work	Lecture free afternoon		

Easter

Week 14

###	1-Apr Monday	2-Apr Tuesday	3-Apr Wednesday	4-Apr Thursday	5-Apr Friday	6-Apr
9						

10	E2 Classification of optical satellite data	Seminar 1	L10 - Image manip Filters, resampling, Segmen	E3 Regression estimation with optical satellite data
11		<i>Årsringen</i> <i>JB</i>	<i>Årsringen</i> <i>KO</i>	<i>RM</i>
12				
13	E2 Classification of optical satellite data	Lecture free afternoon	E3 Regression estimation with optical satellite data	E5 Filters, Texture Segmentation
14				<i>RM</i>
15				
16	<i>JB</i>		<i>RM</i>	

Week 15						
###	8-Apr Monday	9-Apr Tuesday	10-Apr Wednesday	11-Apr Thursday	12-Apr Friday	13-Apr
9						
10	L11 Change detection Time series applications	L15 Self study Radar	RADAR Discussion with HP	L16 Self study Radar	Radar exercise self study	
11	Årsringen RM		Årsringen RM			
12						
13	E4 Change detection with optical data	Radar exercise self study	Lecture free afternoon	Radar exercise self study	self study	
14						
15	RM					
16						
17						

Week 16						
##	15-Apr Monday	16-Apr Tuesday	17-Apr Wednesday	18-Apr Thursday	19-Apr Friday	20-Apr
8			E8 Regression with laser data	E9 Area-based estim with laser data		
9		L13 Area based and single tree methods			L14-Laserdata in Scandin Data fusion & Data access Årsringen	
10	L12 Introduction to laser data	Årsringen PA			Seminar Laser data seminar	
11	Intro to R and Fusion Årsringen PA	E8 Regression with laser data PA	PA	PA	Årsringen JB	
12						
13	E7 Display of laser data Control of data	Lecture free afternoon	E8 Area-based estim with laser data	E9 Area-based estim with laser data	E17 Combining multiple data sources	
14	Display of DEM Laser data in raster form					
15						
16			PA	PA		
17	PA					

Week 17						
##	22-Apr Monday	23-Apr Tuesday	24-Apr Wednesday	25-Apr Thursday	26-Apr Friday	27-Apr
8				Start kl 8.00 in Ljungberglabbet!	Start kl 8.00 in Ljungberglabbet!	
9		LXX Aerial images and Photogrammetry, cont.	L19 Photogrammetry for forest applications		AI processing	
10	L17 Aerial images and Photogrammetry		JB	E14 Data collection with a drone		
11	Årsringen JB	LXX - Drone regulations JB	LXX - Drone regulations JB			
12						
13	E13 Generation of point clouds		Lecture free afternoon	E14 cont Data collection with a drone		
14						
15						
16						
17						

Week 18										
###	29-Apr Monday	30-Apr Tuesday	1-May Wednesday	2-May Thursday	3-May Friday	4-May				
10	L20 Use of drone data	Article seminar Comparing sensors	Labour day	L22 Inventory Transition RS+FI	L24 Sampling, Post-stratif, Model assisted					
11	E16 Viewing drone images Looking at TLS data									
12					TL, MN	AG				
13	L21 Terrestrial laser scanning and MLS	E12 Comparing point clouds			L23 Sampling, Stratification	Time for sampling exercise				
14	and ground based photog				AG					
15										
16										
17										
				Rönnen	Rönnen					

Week 19						
####	6-May Monday	7-May Tuesday	8-May Wednesday	9-May Thursday	10-May Friday	####
9						
10	L25 FOMA - Riksskogstax History, now, future	L26 NILS, THUF	L27 NFI Albania	Ascension day	Squeeze day	
11	FRA, Carbon reporting <i>JF, HansP, AG</i>	 <i>Anna/HansG</i>				
12						
13	Exercise based on NFI data	Time for sampling exercise	Lecture free afternoon			
14						
15						
16	<i>ALA</i>	<i>AG</i>				

Week 20						
####	13-May Monday	14-May Tuesday	15-May Wednesday	16-May Thursday	17-May Friday	###
		<i>Introduce Own Proj</i>				
10		Årsringen, Floor 1		L29	L30	
	L28	Guest lecturer		Forest agency inventories	Use of RS and Inv in planning systems	
11	Non-timber inventories					
12					<i>TL</i>	
13			Lecture free afternoon	Exercise	Guest lectures PhD students	
14	Time for sampling exercise	Guest lectures Professorer				
15						
16	AG	JB			JB	
17						

Week 21						
###	20-May Monday	21-May Tuesday	22-May Wednesday	23-May Thursday	24-May Friday	##
	Start kl 8.00 in Ljungberglabbet!			Own proj work	Own proj work	
9						
10	Field visit	Free day before seminar	Seminar			
11			Inventerings Seminar			
12			<i>TL</i>			
13	Field visit		Lecture free afternoon			
14						
15						
16						
17			Rönnen			

Week22					
##	27-May Monday	28-May Tuesday	29-May Wednesday	30-May Thursday	31-May Friday
9					
10	Own proj work	Own proj work	Own proj work	Own proj work	Final presentation Årsringen, Floor 1
11					
12					
13	Course evaluation	Course evaluation	Lecture free afternoon	Course evaluation	
14					
15					
16					
17					