

**GIS in forest and landscape
SV0014
1 nov - 1 dec 2023**

Lectures and excursions				Scheduled time in computer halls		
Date	Day	Time	Venue	Time	Venue	Teacher available
31	Tuesday	08.00-10.00	Silvicum	10.00-16.00	Stallet, Ladan	10.00-15.00
1	Wednesday	10.00-12.00	Silvicum	12.00-16.00	Stallet, Ladan	12.00-15.00
2	Thursday	08.00-12.00	Skrylle	12.00-16.00	Stallet, Ladan	12.00-15.00
3	Friday	17.00		10.00-16.00	Stallet, Ladan	10.00-12.00
4	Saturday					
5	Sunday					
6	Monday	10.00-12.00	Silvicum	12.00-16.00	Stallet, Ladan	12.00-15.00
7	Tuesday	10.00-12.00	Silvicum	12.00-16.00	Stallet, Ladan	12.00-15.00
8	Wednesday	10.00-12.00	Silvicum	12.00-16.00	Stallet, Ladan	12.00-15.00
9	Thursday			10.00-16.00	Stallet, Ladan	10.00-12.00
10	Friday	17.00		10.00-16.00	Stallet, Ladan	10.00-12.00
11	Saturday					
12	Sunday					
13	Monday	10.00-12.00	Silvicum	12.00-16.00	Stallet, Ladan	12.00-15.00
14	Tuesday	10.00-12.00	Silvicum	12.00-16.00	Stallet, Ladan	12.00-15.00
15	Wednesday			12.00-16.00	Stallet, Ladan	12.00-15.00
16	Thursday	17.00		10.00-16.00	Stallet, Ladan	individual GIS work
17	Friday	17.00		10.00-16.00	Stallet, Ladan	individual GIS work
18	Saturday					
19	Sunday					
20	Monday	10.00-12.00	Silvicum	12.00-15.00	Stallet, Ladan	12.00-15.00
21	Tuesday			12.00-15.00	Stallet, Ladan	12.00-15.00
22	Wednesday			10.00-15.00	Stallet, Ladan	individual GIS work
23	Thursday		17	10.00-15.00	Stallet, Ladan	individual GIS work
24	Friday			10.00-15.00	Stallet, Ladan	individual GIS work
25	Saturday					
26	Sunday					
27	Monday	10.00-14.00	Silvicum	12.00-15.00	PANORA	Historja
28	Tuesday	10.00-12.00	Silvicum	12.00-15.00	Stallet, Ladan	12.00-15.00
29	Wednesday	17.00		12.00-15.00	Stallet, Ladan	12.00-15.00
30	Thursday	17.00		10.00-15.00	Stallet, Ladan	individual GIS work

An aerial photograph of a landscape featuring a mix of forested areas and a golf course. The forest is in autumn, with trees showing various shades of yellow, orange, and brown. The golf course is green and includes several ponds. The text is overlaid on the left side of the image.

SV0014 GIS in forest and
landscape
7.5 hp, period 2a

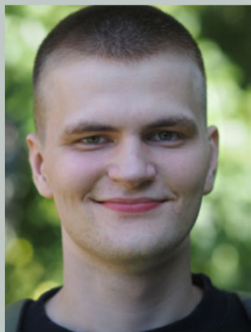
Teachers and researchers you will meet during the course



Emma
Holmström



Emily
Delin



Maksym
Matsela



Jörg
Brunet


The course is part of the B.Sc. program Forest & landscape, Alnarp SLU, but is open for applications as a stand-alone course.

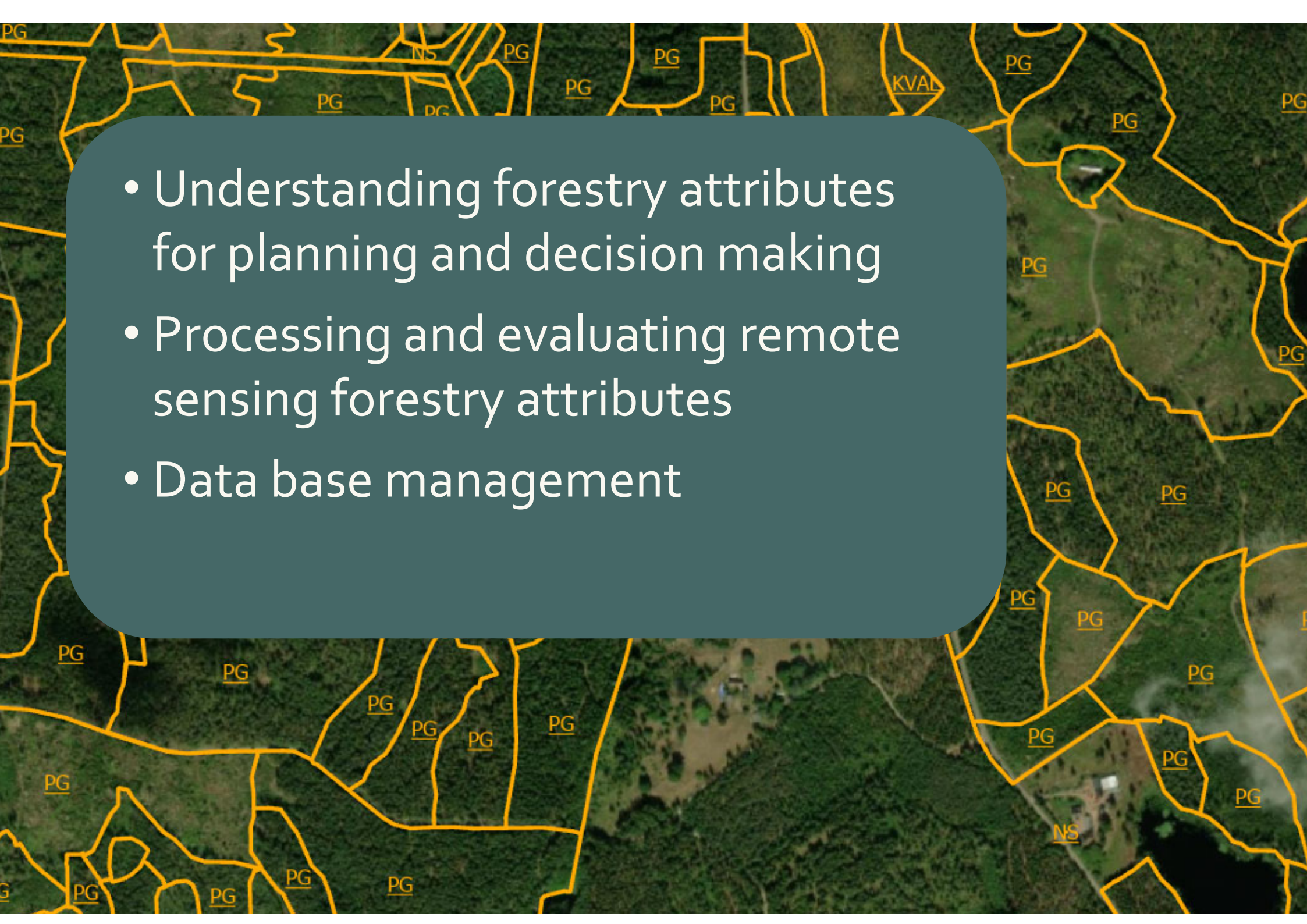
Course leader:
Emma Holmström



Introduction to GIS:

- Theoretical background to rasters and vectorised spatial data
- Exercises in ArcGIS PRO, R studio and field maps
- Create, process and visualize spatial data and produce maps for planning and reporting forest and land use information
- Campus based or online, choose in the beginning of the course

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- A historical topographic map of a region in Sweden, showing various settlements, water bodies, and terrain. The map is overlaid with a semi-transparent olive-green box containing a list of bullet points. The map features labels for places like Hyby, Yaddingen, and Fjellfota. A prominent water body, Yaddingen, is highlighted in light green. Other water bodies include Fjellfota sjön and several smaller lakes. The map uses contour lines to indicate elevation and various symbols for buildings and infrastructure.
- Digitisation of historical maps
 - Create and editing shapefiles
 - Landuse change over time

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- An aerial photograph of a forested area with yellow lines delineating various plots. The plots are labeled with 'PG' (Plantation Group) and 'NS' (Natural Stand). One plot is labeled 'KVAL'. The background is a dense green forest with some cleared areas and a small building visible in the lower right.
- Understanding forestry attributes for planning and decision making
 - Processing and evaluating remote sensing forestry attributes
 - Data base management

- Green infrastructure GIS
- Reindeer planning, RenGIS
- Data collection in field



Welcome to apply!

SCIENCE AND
EDUCATION

FOR

SUSTAINABLE
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