Sen4CAP at the Swedish Board of Agriculture for controls 2020

Goals:

• Test the system and see what's possible
• Use Sen4CAP for grassland activities as a risk analysis to avoid a second field control (12000 parcels)
• Prepare for AMS (area monitoring system) in 2023/24
Timeline 2020

February - Mars 2020
- Sen4CAP (Test login)
- Tested on one S2 tile
- Restriction under 60° north

April - August 2020
- Creodias + Sen4CAP for southern Sweden
- Grassland analysis with Sinergise API (S2) + new cloudmask for northern Sweden

August - September 2020
- First analysis for production
- Sen4CAP analysis is delayed due to delay with S1 data and problems with grassland analysis
- API analysis for whole country

September - October 2020
- Second analysis for production
- Sen4CAP + API analysis is used
Results

• 58% of activities were found
• 5-25 % of farms did not need a second control (regional differences)

• 15% of all parcels were too small or tree covered
• 5-10% are not “expected” to have activities
• Only 20% of all grazing activities were detected
• Cloudy July
Quality assessment

- Activity
- No activity
- Cloud

Meadow R Analys
Pasture R Analys
Meadow Sen4cap
Pasture Sen4cap
The biggest challenge Pastures
Plans 2021

• Analysis for BPS (basic payment scheme) for all parcels in Sweden to prepare for AMS
• Sen4CAP for crop classification and mowing analysis
• API analysis for pastures

• Continue with analysis for parcels with second field control
• Activity analysis for certain parcels for LPIS update

• Collect more field data (grazing and abandoned grassland)
Thank you

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Swedish Board of Agriculture