

Implementation of Sentinel-1 toolbox (in batch mode) in several projects and infrastructures for SAR processing in near-real-time and on large extents

Oral presentations:

Monday: A3.04.2 Agriculture - Common Agricultural Policy

03:55 pm

Sen4CAP open source system to support the new CAP "Monitoring and Evaluation Approach" using Sentinel-1 and -2 for near-real time monitoring of more sustainable agricultural practices

[Dr. Sophie Bontemps](#) | [Université catholique de Louvain, Earth and Life Institute](#) | [Belgium](#)

Tuesday: A3.04.5 Agriculture - Yield estimation and forecasting

Demonstration of Sentinel EO information added-value to support the agricultural statistics - the ESA Sentinel for Agricultural Statistics (Sen4Stat) project

[Dr. Sophie Bontemps](#) | [Université catholique de Louvain, Earth and Life Institute](#) | [Belgium](#)



sen4cap
common agricultural policy



Sen4Stat
Sentinels for Agricultural Statistics

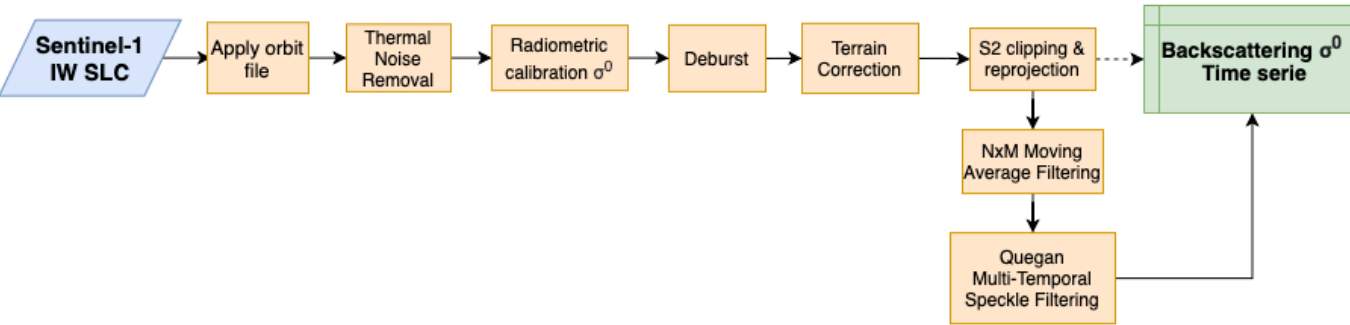


Posters:

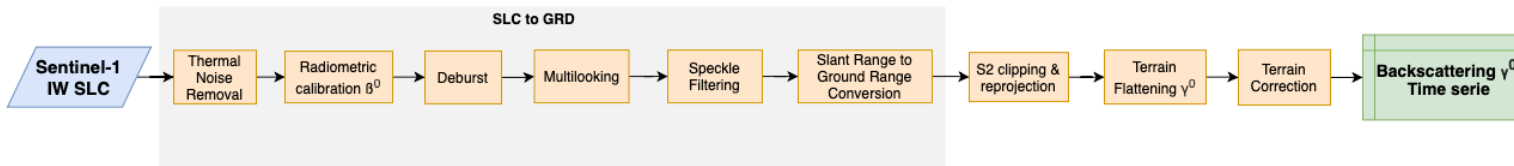
Monday – “Grassland types mapping using Sentinel-1 and Sentinel-2, from a management and an ecological perspective”

Thursday – “In season fields delineation from Sentinel-1 time series using Convolutional Neural Network for object-based crop monitoring system”

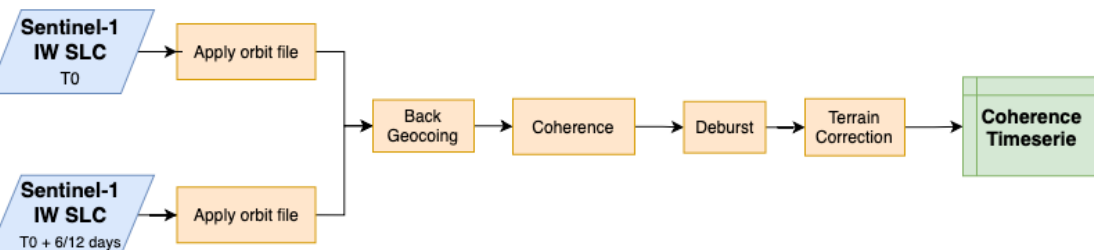
Sigma naught preprocessing



Gamma naught preprocessing



Coherence preprocessing



Multi-Temporal Speckle Filtering

$$J_k(x, y) = E[I_k] \times \frac{1}{N} \sum_{i=1}^N \frac{I_i(x, y)}{E[I_i]}$$

Quegan S., 2001

Terrain Flattening

Without Terrain Flattening With Terrain Flattening

Small D., 2011