Products Access

SEN3APP products can be downloaded using FMIARC-GeoPortal

http://saana.nsdc.fmi.fi/fmiarc-geoportal



CryoLand GeoPortal http://neso1.cryoland.enveo.at/cryoclient

- FTP services
- Web Coverage Service (WCS)
- Web Map Service (WMS)
- Drop box
- HTTP



Contact Us

Dr. Ali Nadir Arslan Phone: +358 50 320 3386 email: ali.nadir.arslan(a)fmi.fi http://sen3app.fmi.fi

SEN3APP Partners



From Satellite Data Reception to Processing lines and Services for End Users









۲

۲

۲

۲

Y

 (\bullet)

۲

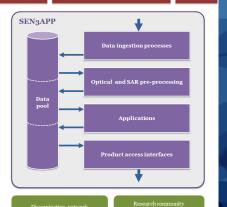
Overview

 (\bullet)

Y

- SEN3APP project addresses the topic of continuous and accurate monitoring of snow, glaciers, lake ice, soil (frost) and land cover/forest changes in the Earth's cryosphere, and in the boreal forest zone.
- SEN3APP project is concerned with the development, implementation, operationalization and validation of Copernicus Sentinel data processing lines for cryospheric (terrestrial) and land cover/phenology applications.
- The processing lines utilize SAR and medium/high resolution optical/IR-range data from Sentinels-1, -2 and -3.
- Operational capabilities of the Finnish Meteorological Institute (FMI) Sodankylä National Satellite Data Center are applied to host part of the infrastructure and also complete processing lines.

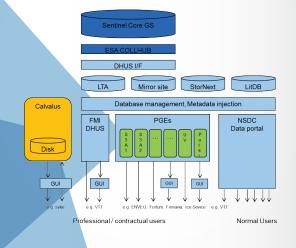
Sentinel-1	Sentinel-2	Sentinel-3	Suomi NPP	Landsat 8	
ESA Sentinel Data Hub Sentinel J Ground Segment - Sentinel J Ground Segment - AFC Seatible Hars Service			USGS EarthExplorer		



The SEN3APP system

The SEN3APP system was developed. The system is

- capable of ingesting the extremely high-volume data of the Sentinel-1, -2 and -3 satellites provided by the Ground Segment interfaces,
- process the data to create value added products and services,



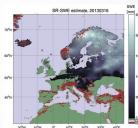
 integrate the products and services with data from other external sources, and offer both the raw and the processed data to users, via an accessible user interface and standardbased data interfaces, which provide inteligent search mechanisms and allow ordering of oustomized products and services

SEN3APP products

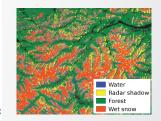
SEN3APP demonstrates eleven products in the following categories (1) Land cover and phenology (2) Snow (3) Glaciers (4) Lake ice.

- Agricultural monitoring
- Phenology
- Fractional Snow Cover extent (FSC) for Northern Hemisphere
- Pan-European Snow water Equivalent
- Extended baltic sea drainage basin direct FSC
- Regional wet snow cover
- Regional and pan-european FSC
- Glacier outlines
- Ice velocity
- Glacier ice velocity
- Snow and ice areas on glaciers
- Lake ice extent

Some example products



Pan European SWE



Wet Snow Covered Area



Lake Ice Extent

 (\bullet)

 \bigcirc

 (\bullet)

۲