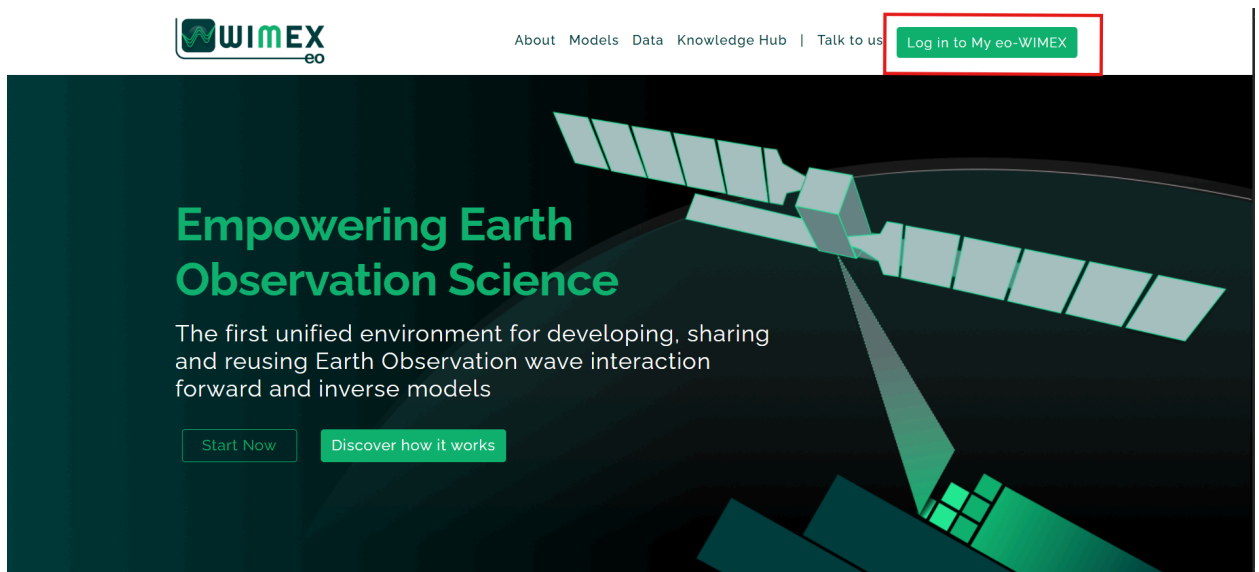


Guide: How to Log In and Access Model Execution on the WIMEX Portal

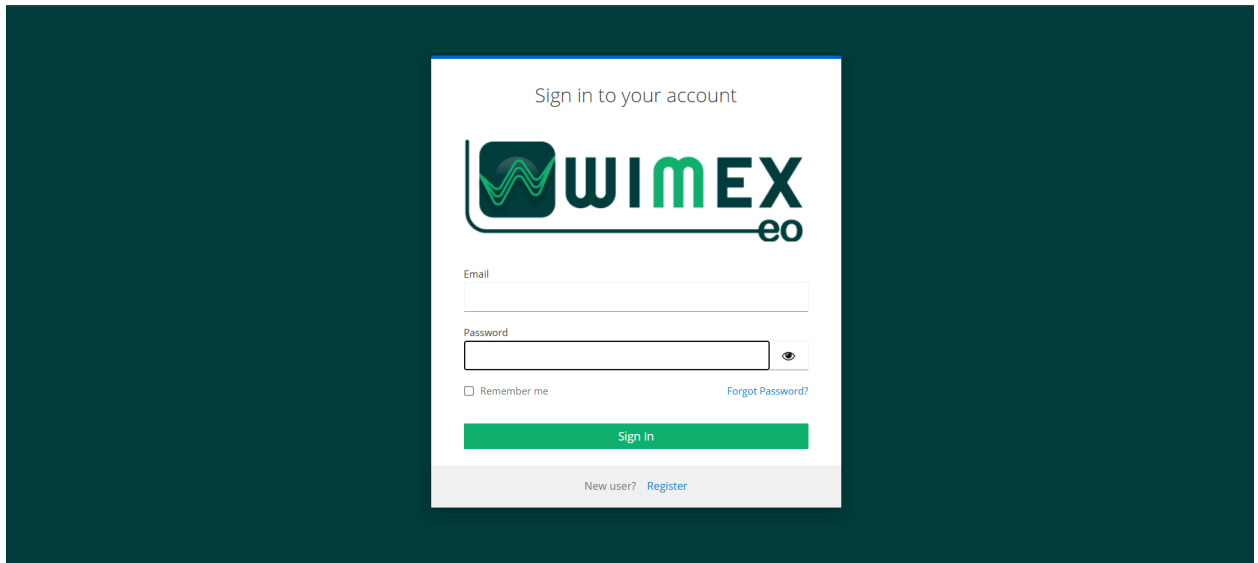
This guide provides step-by-step instructions on how to log in to the WIMEX portal, request access to a model, and navigate to the execution window to run models.

Steps to Log In and Access the Execution Window

1. On the **main page**, click “Log in to my EO-WIMEX portal.”




2. Enter your credentials (Email and Password).



Sign in to your account

WIMEX
eo

Email

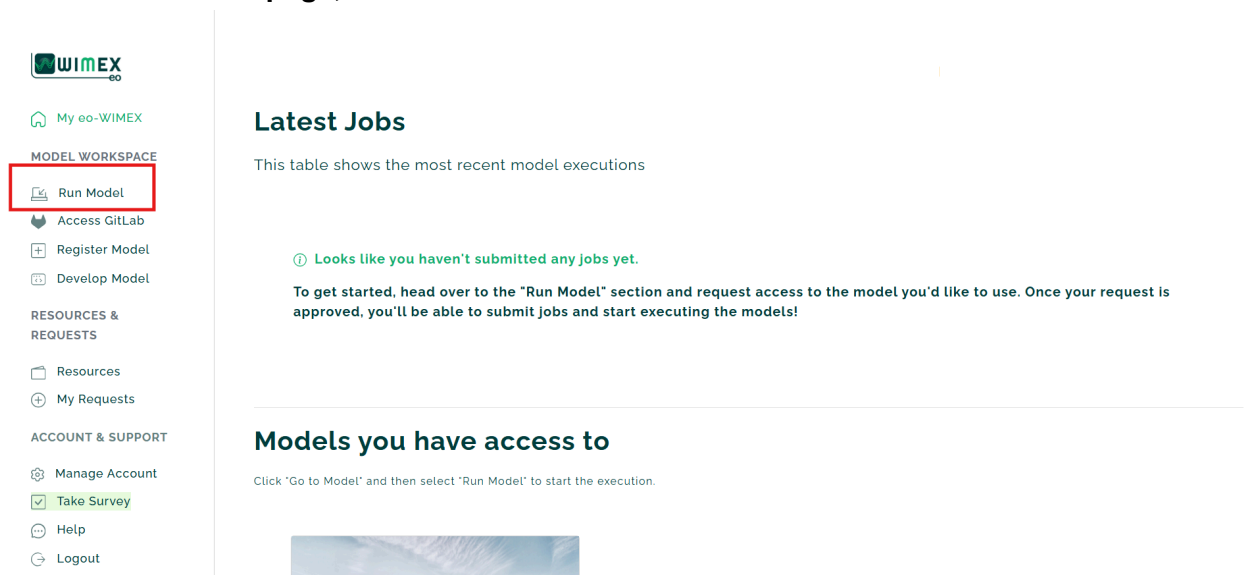
Password 

☐ Remember me [Forgot Password?](#)

[Sign In](#)

New user? [Register](#)

3. Once on the home page, click “Run Model.”



WIMEX
eo

[My eo-WIMEX](#)

MODEL WORKSPACE

- [Run Model](#)
- [Access GitLab](#)
- [Register Model](#)
- [Develop Model](#)

RESOURCES & REQUESTS

- [Resources](#)
- [My Requests](#)

ACCOUNT & SUPPORT

- [Manage Account](#)
- [Take Survey](#)
- [Help](#)
- [Logout](#)

Latest Jobs


This table shows the most recent model executions

[🔔](#) Looks like you haven't submitted any jobs yet.

To get started, head over to the "Run Model" section and request access to the model you'd like to use. Once your request is approved, you'll be able to submit jobs and start executing the models!

Models you have access to

Click 'Go to Model' and then select 'Run Model' to start the execution.



4. In the model selection page:

- Click on the Forward Models section to view forward models, or
- Click on the Inverse Models section to view inverse models.

After selecting the desired model, click “Go to Model.”

My eo-WIMEX

MODEL WORKSPACE

Run Model

Access GitLab

Register Model

Develop Model

RESOURCES & REQUESTS

Resources

My Requests

ACCOUNT & SUPPORT

Manage Account


Take Survey

Help


Logout

Browse models by typology


Forward ModelsInverse Models



WCM
Owner: INRAE, French Institute for Agriculture, Food and Environment
The Water Cloud Model is a physical model that simulates the total radar signal over agricultural fields with a vegetation cover.
[Go to model](#)



Snow2Phase
Owner: Finnish Meteorological Institute
It simulates the observed phase change due to snow changes between the InSAR pairs using the model proposed by Guneriusson et al 2001
[Go to model](#)



IEM-B
Owner: INRAE, French Institute for Agriculture, Food and Environment
The Integral Equation Model is widely used in inversion procedures of SAR images for retrieving soil moisture content and roughness.
[Go to model](#)

5. To request permission to run the model, click “Request Access.”

WIMEX

My eo-WIMEX

MODEL WORKSPACE

Run Model

Access GitLab

Register Model

Develop Model

RESOURCES & REQUESTS

Resources

My Requests

ACCOUNT & SUPPORT

Manage Account

Take Survey

Help

Logout

MODEL CATALOGUE

IEM-B
The Integral Equation Model (IEM) [1,2] is widely used in inversion procedures of SAR images for retrieving soil moisture content and roughness. Its validity domain covers the range of soil parameter values encountered on agricultural soils. However, most studies reported discrepancies between modeled backscatters by IEM and observed backscatters by SAR sensors. These discrepancies were attributed by Baghdadi et al. [3-7] to the inaccuracy of the roughness measurements and to the model itself. A semi-empirical calibration of the backscattering Integral Equation Model was developed by Baghdadi et al. [3-7]. A large dataset of radar signal and in situ measurements (soil moisture and surface roughness) over bare soil surfaces were used. This dataset was collected over numerous agricultural study sites in the world using various SAR sensors at X-, C-, and L-bands. The new model called IEM-B (IEM modified by Baghdadi) was developed in HH, HV and VV polarizations at C-band, and in HH and VV polarizations at both X- and L-bands. This semi-empirical calibration of the IEM was performed in replacing the correlation length derived from field experiments by a fitting parameter.

[Request Access](#)

[Request LUT/Datacube Access](#)

[How to run the model](#)


TYPOLOGY
Forward Models

Models' Description

Lookup Tables/Datacube Description

Acronyms

6. After clicking the request button, its status will change to “Pending Approval.” You will receive an email confirming that your access request has been received.



[My eo-WIMEX](#)

MODEL WORKSPACE

[Run Model](#)

[Access GitLab](#)

[Register Model](#)

[Develop Model](#)

RESOURCES & REQUESTS

[Resources](#)

[My Requests](#)


ACCOUNT & SUPPORT

[Manage Account](#)

[Take Survey](#)

[Help](#)

[Logout](#)



[Pending Approval](#)

[Request LUT/Datacube Access](#)

[How to run the model](#)

TYPOLGY
Forward Models

← MODEL CATALOGUE

IEM-B


The Integral Equation Model (IEM) [1,2] is widely used in inversion procedures of SAR images for retrieving soil moisture content and roughness. Its validity domain covers the range of soil parameter values encountered on agricultural soils. However, most studies reported discrepancies between modeled backscatters by IEM and observed backscatters by SAR sensors. These discrepancies were attributed by Baghdadi et al. [3-7] to the inaccuracy of the roughness measurements and to the model itself. A semi-empirical calibration of the backscattering Integral Equation Model was developed by Baghdadi et al. [3-7]. A large dataset of radar signal and in situ measurements (soil moisture and surface roughness) over bare soil surfaces were used. This dataset was collected over numerous agricultural study sites in the world using various SAR sensors at X-, C-, and L-bands. The new model called IEM-B (IEM modified by Baghdadi) was developed in HH, HV and VV polarizations at C-band, and in HH and VV polarizations at both X- and L-bands. This semi-empirical calibration of the IEM was performed in replacing the correlation length derived from field experiments by a fitting parameter.

Models' Description ▾

Lookup Tables/Datacube Description ▾

Acronyms ▾

7. Once your request is approved, the button will change to “Run Model.” Click this button to open the terminal page where you can execute the model.



[My eo-WIMEX](#)

[Admin Panel](#)

MODEL WORKSPACE

[Run Model](#)

[Access GitLab](#)

[Register Model](#)

[Develop Model](#)

RESOURCES & REQUESTS

[Resources](#)

[My Requests](#)


ACCOUNT & SUPPORT

[Manage Account](#)

[Take Survey](#)

[Help](#)

[Logout](#)



[Run Model](#)

[Query Datacube](#)

[How to run the model](#)

TYPOLGY
Forward Models

← MODEL CATALOGUE

IEM-B


The Integral Equation Model (IEM) [1,2] is widely used in inversion procedures of SAR images for retrieving soil moisture content and roughness. Its validity domain covers the range of soil parameter values encountered on agricultural soils. However, most studies reported discrepancies between modeled backscatters by IEM and observed backscatters by SAR sensors. These discrepancies were attributed by Baghdadi et al. [3-7] to the inaccuracy of the roughness measurements and to the model itself. A semi-empirical calibration of the backscattering Integral Equation Model was developed by Baghdadi et al. [3-7]. A large dataset of radar signal and in situ measurements (soil moisture and surface roughness) over bare soil surfaces were used. This dataset was collected over numerous agricultural study sites in the world using various SAR sensors at X-, C-, and L-bands. The new model called IEM-B (IEM modified by Baghdadi) was developed in HH, HV and VV polarizations at C-band, and in HH and VV polarizations at both X- and L-bands. This semi-empirical calibration of the IEM was performed in replacing the correlation length derived from field experiments by a fitting parameter.

Models' Description ▾

Lookup Tables/Datacube Description ▾

Acronyms ▾

8. To run a model please refer to the specific ‘How to run the model’ document available for download clicking on the button ‘How to run the model’



My eo-WIMEX

Admin Panel

MODEL WORKSPACE

Run Model

Access GitLab

Register Model

Develop Model

RESOURCES & REQUESTS

Resources

My Requests

ACCOUNT & SUPPORT

Manage Account


Take Survey

Help

Logout

← MODEL CATALOGUE

IEM-B



[Run Model](#)

[Query Datacube](#)

[How to run the model](#)

TYPOLGY

Forward Models

The Integral Equation Model (IEM) [1,2] is widely used in inversion procedures of SAR images for retrieving soil moisture content and roughness. Its validity domain covers the range of soil parameter values encountered on agricultural soils. However, most studies reported discrepancies between modeled backscatters by IEM and observed backscatters by SAR sensors. These discrepancies were attributed by Baghdadi et al. [3-7] to the inaccuracy of the roughness measurements and to the model itself. A semi-empirical calibration of the backscattering Integral Equation Model was developed by Baghdadi et al. [3-7]. A large dataset of radar signal and in situ measurements (soil moisture and surface roughness) over bare soil surfaces were used. This dataset was collected over numerous agricultural study sites in the world using various SAR sensors at X-, C-, and L-bands. The new model called IEM-B (IEM modified by Baghdadi) was developed in HH, HV and VV polarizations at C-band, and in HH and VV polarizations at both X- and L-bands. This semi-empirical calibration of the IEM was performed in replacing the correlation length derived from field experiments by a fitting parameter.

Models' Description ▾

Lookup Tables/Datacube Description ▾

Acronyms ▾