Getting started
SimClim AR6
for ArcGIS Climate

Contents

Before you begin

Content in this Getting Started guide applies to SimClim AR6 for ArcGIS Climate, version 1.0. If you are using a more recent version please check https://help.climsystems.com/ for the latest version of this document.

Installing the add-in

Please make sure you have the latest version of ESRI ArcGIS Pro installed.

For more information about ArcGIS see:
https://www.esri.com/en-us/arcgis/products/arcgis-pro/overview

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Download the SimClim AR6 for ArcGIS add-in (.esriAddinX file) and your owned datasets from:
https://my.climsystems.com/my-downloads/

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Make sure ArcGIS Pro is not running, and if it is, close it.

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Double click the downloaded Add-in file and click Yes.

↓

Installation complete!

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Open ArcGIS Pro and make sure SimClim for ArcGIS is available on the Add-in tab on the ArcGIS Pro toolbar.

Global Dataset

SimClim for ArcGIS Climate includes access to the Global spatial dataset.
It can be downloaded from the link below:

https://climsystems.blob.core.windows.net/software/simclim-ar6-arcgis/
global-datasets/Global%20(AR6).zip

The Toolbar

You can find SimClim for ArcGIS on the Add-in tab on the ArcGIS toolbar. If it's not there, or the Add-in tab is missing, check the Add-in is installed correctly.

ArcGIS toolbar

Share	Help	**Add-In**

Generate a Scenario

🟡 Manage License

🔵 About

SimClim AR6 for ArcGIS Climate
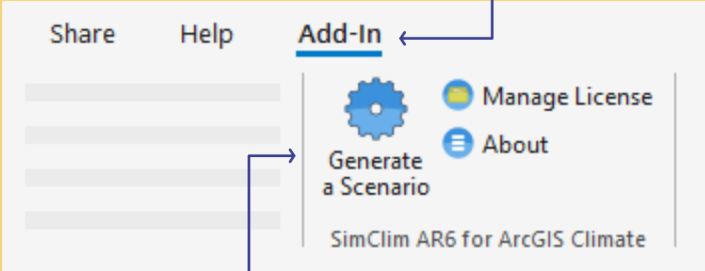
Functions

Here you can find buttons for all the Add-in's functions. Start by clicking Manage Licence to activate your licence.

Licensing

Click the Manage Licence button.

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Select the Standard User Licence check box and click Configure.

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Enter your Product Key.

↓

You can find your Product Keys at
https://my.climsystems.com/my-products/.

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Enter your account e-mail address and password.

↓

Click OK to activate licence.

↓

Click Close to close the Licence Manager.

Scenario Generator

Click the Browse button and select a downloaded SimClim area folder.

Select a SimClim area folder

Choose the Baseline year or a Future year and if you want the output to be shown as a projection or as a change from baseline.

Projection year and type

Choose the climate variable, such as Precipitation and Temperature.

Variable type

Generate a Scenario □ ✕

Specify scenario parameters below and click Generate to generate a raster layer.

Area: [Browse...] C:\SimCLIM Data\Morocco

Year: ○ Baseline ● Year: [2100 ▾] ● Projection ○ Change from baseline

Variable: [Precipitation ▾]

Pattern | Ensemble

ACCESS-CM2
ACCESS-ESM1-5
AWI-CM-1-1-MR
BCC-CSM2-MR
BCC-ESM1
CAMS-CSM1-0
CanESM5
CanESM5-CanOE
CAS-ESM2-0
CESM2
CESM2-WACCM
CIESM
CMCC-CM2-SR5
CMCC-ESM2

Select months:
☑ January   [Select all]
☑ February   [Select none]
☑ March
☑ April
☑ May
☑ June
☑ July
☑ August
☑ September
☑ October
☑ November
☑ December

Curve: [SSP5-8.5 ▾]

Sensitivity: ○ Low ○ Mid ● High

[Generate to file...]   [Generate] [Cancel]

Select a pattern

Patterns are available based on the selected area and variable.

Switch to the Ensemble tab to run an ensemble with two or more patterns.

Select a scenario

Select a scenario and sensitivity.

When an AR6 area is selected you can pick from a range of SSPs.

Select months

Select the months to include in scenario calculation.

Outputs

Results are displayed as Raster layers in ArcGIS Pro.
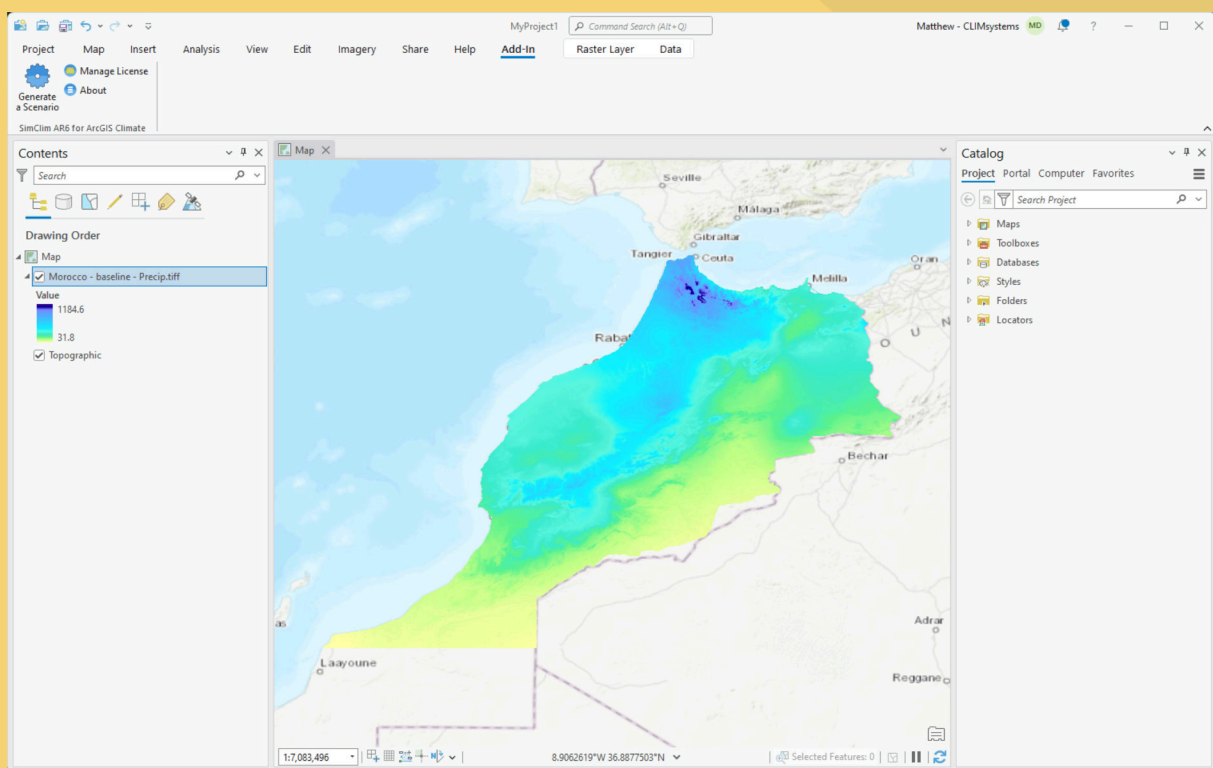
Outputs can be saved directly to a file by clicking the Generate to file button in the Scenario Generator dialog box.