

# Instructions and links for MatCont

Modelling challenges in a changing climate and environment

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## 1 MATLAB online

- Users without MATLAB access can use the free online version at [MATLAB Online](#).
- Download MatCont from [SourceForge](#)
- Copy the downloaded MatCont folder (MatCont7p6) to the MATLAB drive at [MathWorks Drive](#) (sign-in required; create an account if needed).
- To add the folder and its subfolders to the MATLAB path, right-click the folder → **Add to Path** → **Selected Folder(s) and Subfolders**.

## 2 MatCont Setup

- For Mac users: Install [Xcode](#) from Apple to enable MEX file execution in MatCont.
- Open the MatCont folder (MatCont7p6) to ensure MATLAB operates within this directory.
- Once everything is set up, type `matcont` in the Command Window. If the installation is successful, the MatCont GUI window should appear.

## 3 Exercise

- Three MatCont tutorials are available online from the creators, covering:
  1. [Numerical Integration](#),
  2. [One-parameter Bifurcation Analysis](#),
  3. [Bifurcation of Limit Cycles](#).
- For discrete-time systems, [MatContM](#) is required. Additional tutorials are available online for MatContM: [Tutorial 1](#) and [Tutorial 2](#).