



Introduction to sea state and wind wave characterization

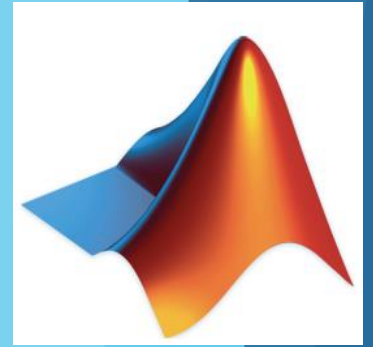
PREREQUISITES

Software: Matlab Install trial version or full academic license

Provide your account email (student account)

Insert your account if your are preregister in Matlab web or create a new account

Name, surname and other details are requested during the registration

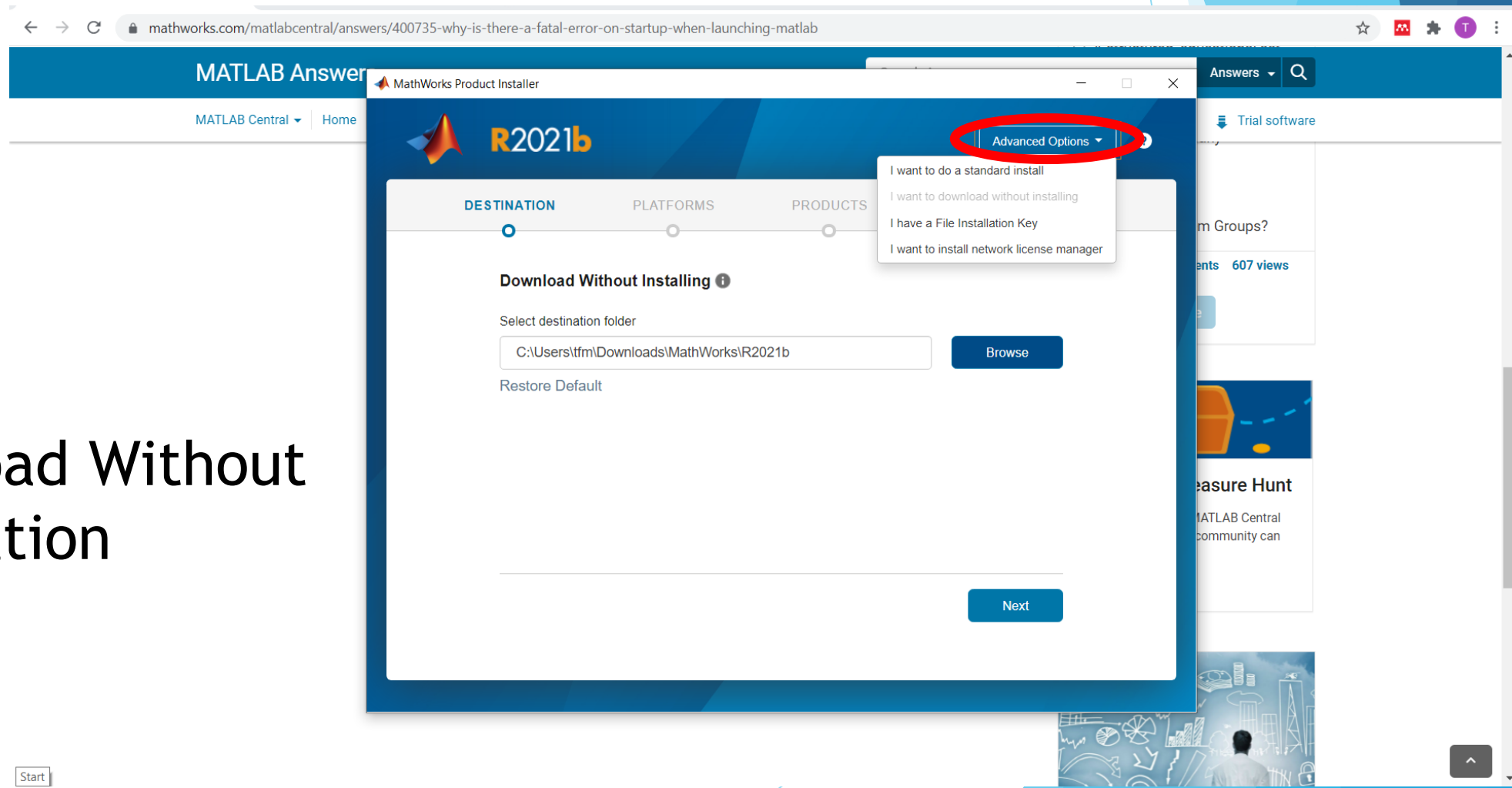


A screenshot of the MathWorks website. The browser address bar shows 'es.mathworks.com/campaigns/products/trials.html'. The page features the MathWorks logo and the text 'Software de prueba'. A large banner reads 'Pruebe MATLAB, Simulink y otros productos'. Below this, there are two columns of text. The left column offers a '30-day free trial' and provides instructions on how to run MATLAB in a browser or install it. The right column is for 'Iniciar sesión o crear una cuenta' and contains a form with a text input field for 'Correo electrónico del trabajo o la universidad*' and a 'Continuar' button. The footer includes a language selector for 'España', social media icons, and legal information.

PREREQUISITES

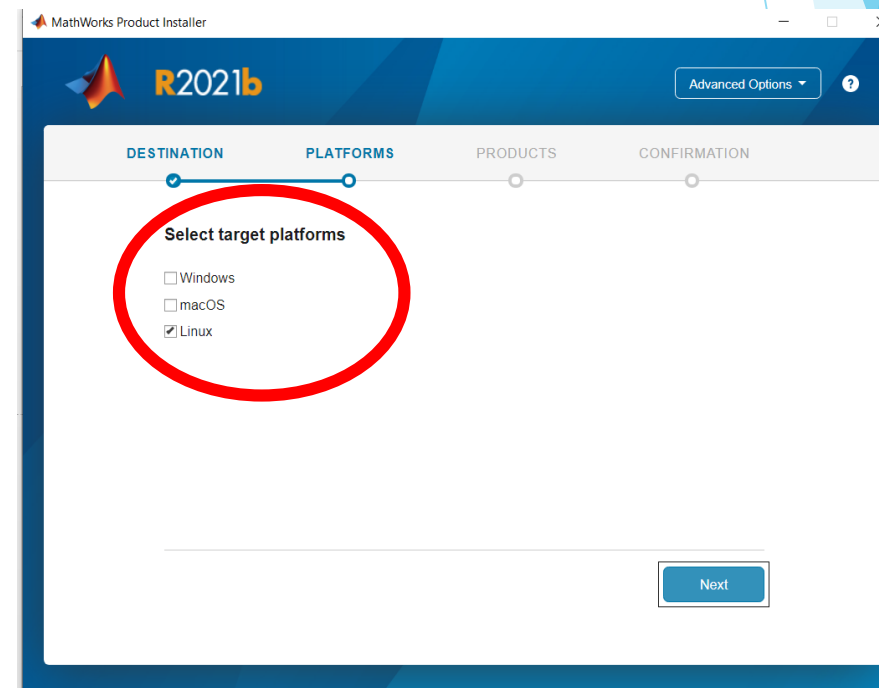
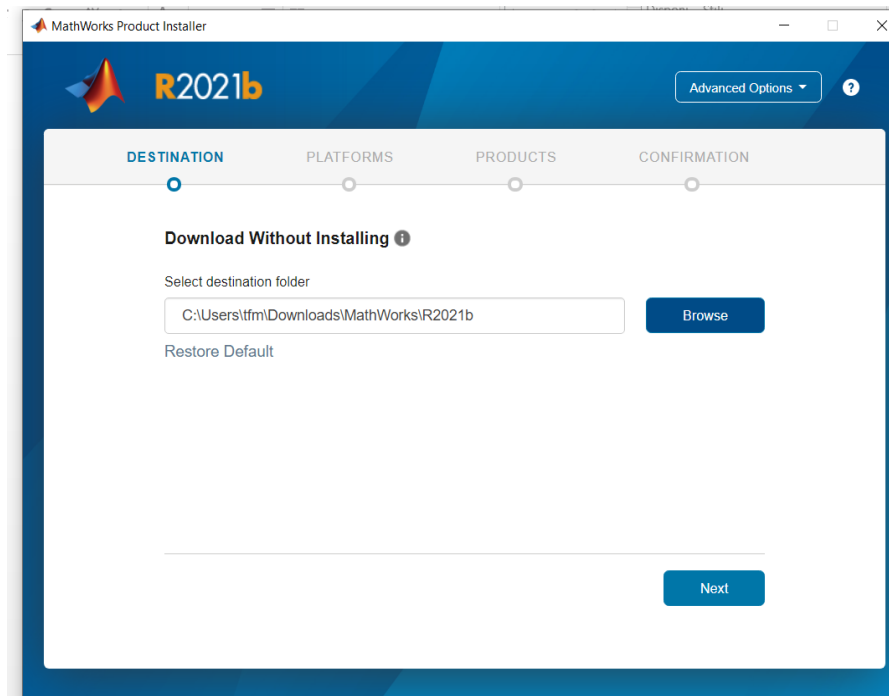
IN ADVANCED OPTION YOU CAN CHOOSE:

- Install
- Download Without Installation



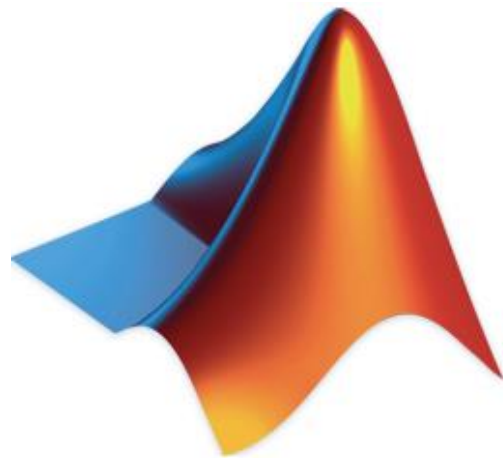
PREREQUISITES

Download Without Installation allows to select the target platform



PREREQUISITES

Download Without Installation allows to select the target platform



matlab_R2021b_win64(1).exe

archives	16/11/2021 13:27	File folder	
bin	16/11/2021 13:28	File folder	
extern	16/11/2021 13:28	File folder	
remote	16/11/2021 13:28	File folder	
resources	16/11/2021 13:27	File folder	
sys	16/11/2021 13:28	File folder	
ui	16/11/2021 13:28	File folder	
utils	16/11/2021 13:28	File folder	
autorun.inf	16/06/2006 16:50	Setup Information	1 KB
installer_input.txt	25/05/2021 2:02	Text Document	9 KB
license_agreement.txt	21/07/2021 3:41	Text Document	82 KB
mathworks_installation_help.pdf	16/08/2021 7:52	Adobe Acrobat D...	677 KB
mathworks_installation_help_es.pdf	30/09/2021 9:49	Adobe Acrobat D...	688 KB
mathworks_installation_help_ja_JP.pdf	19/08/2021 4:35	Adobe Acrobat D...	576 KB
mathworks_installation_help_ko_KR.pdf	19/08/2021 4:35	Adobe Acrobat D...	685 KB
mathworks_installation_help_zh_CN.pdf	19/08/2021 4:35	Adobe Acrobat D...	779 KB
patents.txt	21/07/2021 2:53	Text Document	14 KB
readme.txt	25/05/2021 2:02	Text Document	8 KB
setup.exe	30/06/2021 4:39	Application	497 KB
trademarks.txt	28/12/2013 2:08	Text Document	1 KB
uninstall.zip	03/11/2021 14:51	Archivo WinRAR ZIP	45.120 KB
VersionInfo.xml	02/11/2021 19:30	XML Document	1 KB

EXTREME VALUE ANALYSIS

https://github.com/menta78/tsEva/archive/0.1_R2014b.zip

- This MATLAB toolbox contains an implementation of the Transformed-Stationary (TS) methodology for non-stationary EVA
- This approach consists in (i) transforming a non-stationary time series into a stationary one to which the stationary EVA theory can be applied; and (ii) reverse-transforming the result into a non-stationary extreme value distribution.
- The toolbox is free of external dependencies and allow the statistical analysis and plot the results.

(Mentaschi et al. ,2016).

EXTREME VALUE ANALYSIS

https://github.com/menta78/tsEva/archive/0.1_R2014b.zip

Download and unzip the zip folder

https://github.com/menta78/tsEva/archive/0.1_R2014b.zip

Open Matlab

Change directory to 0.1_R2014b/test/ in the unzipped folder

Open and run the script test/sampleEVASStationary.m

DATA ACCESS

The student should be registered in

<https://cds.climate.copernicus.eu/cdsapp#!/search?type=dataset>

The screenshot shows a web browser window displaying the Copernicus Climate Data Store search results page. The URL in the address bar is <https://cds.climate.copernicus.eu/cdsapp#!/search?type=dataset>. The page header includes the logos for the European Commission, Copernicus (Europe's eyes on Earth), ECMWF (Implemented by), and the Climate Change Service. A user profile for 'tomas fernandez' with a 'Logout' button is visible in the top right. A navigation menu below the header contains links for Home, Search, Datasets, Applications, Your requests, Toolbox, Support, and Live. The main content area is titled 'Search results' and features a search input field with the text 'Search dataset' and a magnifying glass icon. Below the search field are tabs for 'All', 'Applications', 'Datasets' (which is selected), and 'Providers'. On the left side, there is a 'Sort by' section with 'Relevancy' selected and 'Title' as an option. Below this are several filter categories, each with a right-pointing arrow: 'Product type', 'Variable domain', 'Spatial coverage', 'Temporal coverage', 'Sector', and 'Provider'. The search results list three entries, each with a database icon, a title, and a brief description. The first entry is 'ERA5 monthly averaged data on pressure levels from 1950 to 1978 (preliminary version)'. The second is 'ERA5 hourly data on pressure levels from 1950 to 1978 (preliminary version)'. The third is 'ERA5 hourly data on single levels from 1950 to 1978 (preliminary version)'. A small circular icon with a penguin is visible in the bottom right corner of the page.

cds.climate.copernicus.eu/cdsapp#!/search?type=dataset

European Commission Copernicus Europe's eyes on Earth IMPLEMENTED BY ECMWF Climate Change Service tomas fernandez Logout

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Search results

Search dataset

All Applications **Datasets** Providers

Sort by
Relevancy
Title

- Product type
- Variable domain
- Spatial coverage
- Temporal coverage
- Sector
- Provider

ERA5 monthly averaged data on pressure levels from 1950 to 1978 (preliminary version)
This entry is a preliminary version of the ERA5 reanalysis back extension from 1950 to 1978. Although in many other respects the quality of this dataset is quite satisfactory (a document is in preparation), this preliminary data does suffer from tropical cyclones that are sometimes unrealistically intense. This is in contrast with the ERA5 product from 1979 onwards. For more details see the artic...

ERA5 hourly data on pressure levels from 1950 to 1978 (preliminary version)
This entry is a preliminary version of the ERA5 reanalysis back extension from 1950 to 1978. Although in many other respects the quality of this dataset is quite satisfactory (a document is in preparation), this preliminary data does suffer from tropical cyclones that are sometimes unrealistically intense. This is in contrast with the ERA5 product from 1979 onwards. For more details see the artic...

ERA5 hourly data on single levels from 1950 to 1978 (preliminary version)