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Dwarfs4MOSAIC Repository

USER'S QUICK START GUIDE

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About this guide

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<https://guaix.ucm.es/dwarfs4mosaic>

Intended Audience

This guide is designed for researchers and users without administrative privileges. It explains how to navigate and use the **dwarfs4MOSAIC** repository platform as a non-administrative user, providing step-by-step instructions.

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1. Accessing the Platform

To start using dwarfs4MOSAIC repository, open your preferred web browser and navigate to the project URL, <https://guaix.ucm.es/dwarfs4mosaic-data>. It is recommended to use modern browsers such as *Chrome*, *Firefox*, or *Edge* for optimal compatibility with all platform features. Once the page loads, you will reach the welcome page.

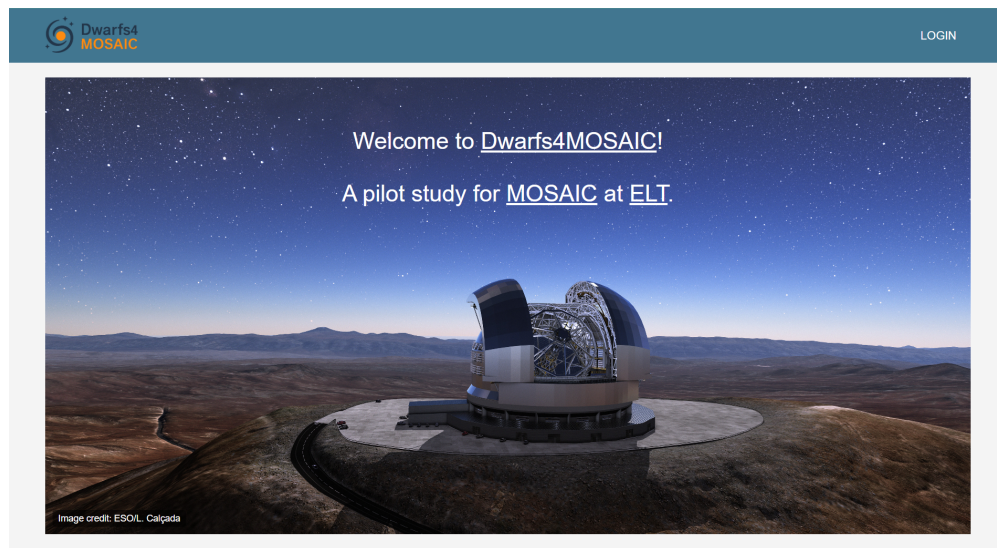


Figure 1. Dwarfs4MOSAIC welcome page.

Click the **LOGIN** option at the top-right corner of the page to access the login form and enter your assigned username and password in the corresponding fields.

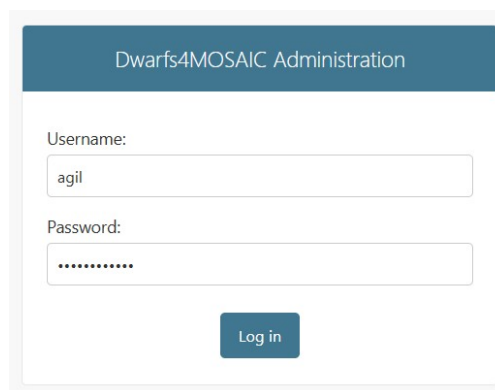
The image displays the login form for the Dwarfs4MOSAIC Administration. It has a white background with a dark blue header bar containing the text 'Dwarfs4MOSAIC Administration'. Below the header, there are two input fields: 'Username:' with the value 'agil' and 'Password:' with masked characters '.....'. A dark blue 'Log in' button is positioned below the password field.

Figure 2. Login form.

If you forget your password or experience login issues, please contact *Principal Investigator of Dwarfs4MOSAIC* at <https://guaix.ucm.es/dwarfs4mosaic> to request a new password.

2. User Options

After logging in, you will be directed to the *Home* page, which displays a welcome message along with several navigation options, providing quick access to the features most relevant to daily tasks.

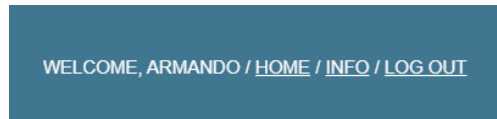


Figure 3. Navigation links for a generic user.

- **Home:** redirects to the main page (see [Chapter 3. Navigating the Home Page](#)).
- **Info:** access to platform information (see [Chapter 5. Platform Information](#)).
- **Log out:** option to manually log out of the platform (see [Chapter 6. Logging Out](#)).

3. Navigating the Home Page

The *Home* page shows a table with the targets you have permission to view.






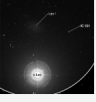




<div>  WELCOME, ARMANDO / HOME / INFO / LOG OUT </div>												
Research Objects List of celestial objects intended for study, along with details and relevant properties for each object.												
IMAGE	NAME	TYPE	RA (HH:MM:SS)	DEC (±DD:MM:SS)	MAG 	REDSHIFT	SIZE (arcsec)	VISIBILITY SEMESTER	OBSERVING RUN	INSTRUMENT	DATA FILES	COMMENTS
	IC 1613	galaxy	01:04:47	+02:07:04	9.2	0.0 ± 0.005	16.6	2025b			stackcube_3030307 fit stackcube_3030308 fit 	Irregular dwarf galaxy located on the outskirts of the Local Group, with low interstellar dust content. 
	Leo I	galaxy	10:08:23	+12:36:00	13.2	0.0 ± 0.0	11.5	2025b				Dwarf spheroidal galaxy. 
	NGC 6822	galaxy	19:44:56	-14:48:06	9.2	0.0 ± 0.0	17.4	2025b			final_cube_GTC4-23ITP_OB0006 fit final_cube_GTC4-23ITP_OB0009 fit 	Barred irregular galaxy in the Local Group. 

Figure 4. Home page.

Each target is displayed with several fields that provide key information at a glance:

Image: target's associated image, if available.

Name: unique identifier of the target.

Type: category of the astronomical object.

Right Ascension: celestial coordinate along the equatorial plane [hh:mm:ss].

Declination: celestial coordinate perpendicular to the equatorial plane [dd:mm:ss].

Apparent Magnitude: brightness of the target as observed from Earth.

Redshift (z): measured redshift of the object.

Angular Size: apparent size of the target in the sky.

Visibility Semester: semester when the target is visible.

Observing Run: name of the observing run(s) the target belongs to.

Instrument: instrument used to acquire data for the target.

Data Files: list of associated files available for download (see [Chapter 4. Downloading Files](#)).

Comments: additional information.

4. Downloading Files

On the *Home* page, locate the target of interest. In the **Data Files** column, you will see the available files along with the download icon . Clicking this icon opens the file download view.

Target: NGC 6822
Available datafiles for downloading. Please select files to download.

<input checked="" type="checkbox"/>	FILE NAME	SIZE
<input checked="" type="checkbox"/>	final_cube_GTC4-23ITP_OB0006.fit	5 bytes
<input checked="" type="checkbox"/>	final_cube_GTC4-23ITP_OB0009.fit	5 bytes

Download

Figure 5. File download view.

This view displays a table containing all the files associated with the selected target and their respective sizes. You can select one, multiple, or all files at once. If only a single file is selected, it will be downloaded directly. If multiple files are selected, a *.zip* archive containing all selected files is generated. The download process is handled directly by your web browser.

5. Platform Information

This view provides relevant information about the platform. All information is kept up-to-date by the Administrator to ensure accuracy.

Platform Information

Features

Data Release 1

- MEGARA
- WEAVE

Data Release 1

MEGARA

MEGARA is an IFU spectrograph at 10.4m Gran Telescopio Canarias (GTC) which covers a field of $12.5 \times 11.3 \text{ arcsec}^2$ using 567 hexagonal spaxels of 0.62 arcsec in size plus 56 sky spaxels. Each galaxy has been observed using three different LR-VPHs ($R=5000-7000$): VPH405_LR (wavelength range: 3653-4386 Å), VPH480_LR (4332-5196 Å) and VPH675_LR (6094-7300 Å).

The MEGARA Data Reduction Pipeline generates a final product which consists of the compilation of 623 fibre spectra stacked in rows (called RSS, which stands for Row Stacked Spectra). This RSS is later converted into a cube, for which a pixel size of 0.3 arcsecs has been used. The provided cubes are flux calibrated and corrected from extinction, diffuse light and cosmic rays.

WEAVE


WEAVE is a new multi-object survey and multi-integral-field-unit spectrograph for the 4.2-m William Herschel Telescope (WHT), of which the LIFU (Large Integral Field Unit) mode has been used for the data in this release. The LIFU covers a field of view $90 \text{ arcsec} \times 78 \text{ arcsec}$, where the science array comprises 547 fibres (filling factor of 0.55), each having a diameter on the sky of 2.6 arcsec, plus 8 more sky bundles of fibres. The galaxies in DR1 have been observed with the Low-resolution VPHs ($R = 2500$) for both Red and Blue arms, whose wavelength ranges are 5790-9590 Å and 3660-6060 Å, respectively.

The observed raw data of WEAVE are passed to the Cambridge Astronomy Survey Unit (CASU) for automatic pipeline processing, and the final product of the reduction, referred to as Level 1, is what is provided in this release. Each observation of a galaxy produces two cubes called 'stackcube'—one red and one blue. Each cube combines the three dithers performed to account for the spacing between the fibers.

Figure 6. Platform information view.

6. Logging Out


To securely exit the platform, click the **LOG OUT** option located at the top-right corner of the page. This will end your session and return you to the welcome page. Your session will also automatically expire after 15 minutes of inactivity, requiring you to log in again. This helps protect your account on shared computers.

 Always log out when you finish using the system, especially on shared or public computers, to protect your account and data.

7. Support

For any questions, technical issues, or to request a new password, please contact *Principal Investigator of Dwarfs4MOSAIC* at <https://guaix.ucm.es/dwarfs4mosaic>.

Response times may vary, and users are encouraged to provide a clear description of the issue.

 Always keep your login credentials secure and do not share them with others.