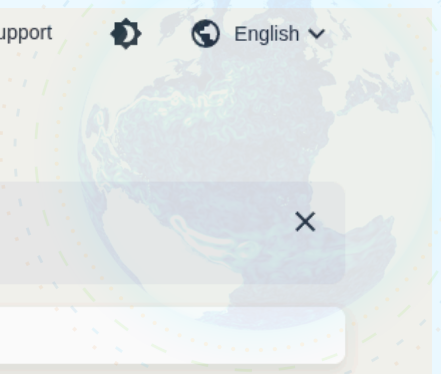





 **Welcome!**



## Contributing to EDITO Datalab


Learn how to contribute your knowledge to [EDITO Tutorials](#) .




Home Trainings and tutorials Datalab Explore data Integrate data About EDITO Documentation Support   English ▾

### Trainings and tutorials

 Discover and learn ocean data science at your own pace, according to your needs  
Follow trainings or interactive tutorials and [contribute to the community resources](#). 




### Ocean modelling

 **Discover the Virtual Ocean Model Lab**

BSC and EDITO

Access tutorial resources for using Virtual Ocean Model Lab components


[Create](#) [Explore](#)

 **Discover GLONET products**

EDITO ModelLab and 2 others

Explore 1/4 degree resolution forecast data generated with Mercator Ocean international's GLONET AI model developed as part of the EDITO-ModelLab project.





[Explore](#)

 **Ocean data analysis and modelling tutorials**

EDITO ModelLab

You will find there several examples of how to use EDITO Platform to run data analysis and modelling

[Create](#)



## What We'll Go Over

- ✓ How to become a contributor to EDITO tutorials
- ✓ Create a shareable tutorial
- ✓ Share it publicly via **GitHub**
- ✓ Launch it on **EDITO Datalab**
- ✓ Register it using `tutorials.json`
- ✓ Submit a **merge request**

All this is also covered in [EDITO Datalab Documentation](#).



# Get an Account on EDITO

 Become a Beta Tester:

[Sign up here](#)

 Receive an Email:

You will receive an email from the developer team with further instructions.

 Sign up to Mercator Ocean GitLab:

[Create your account](#)



# Contribute to the Tutorials Content Repository

 Access Repositories:

Once your account is created, you will be added as a developer to the following repositories:

- Service Playground Repository
- Process Playground Repository
- Tutorial Content Repository



## 🧱 I have a new tool/script to share

✅ For example, I've written a tutorial in `.Rmd` :

- It explains how to use a tool or perform a task
- Includes **Markdown** text and **R code chunks**
- Shows plots, tables, or results inline
- Has some interactivity/user interaction

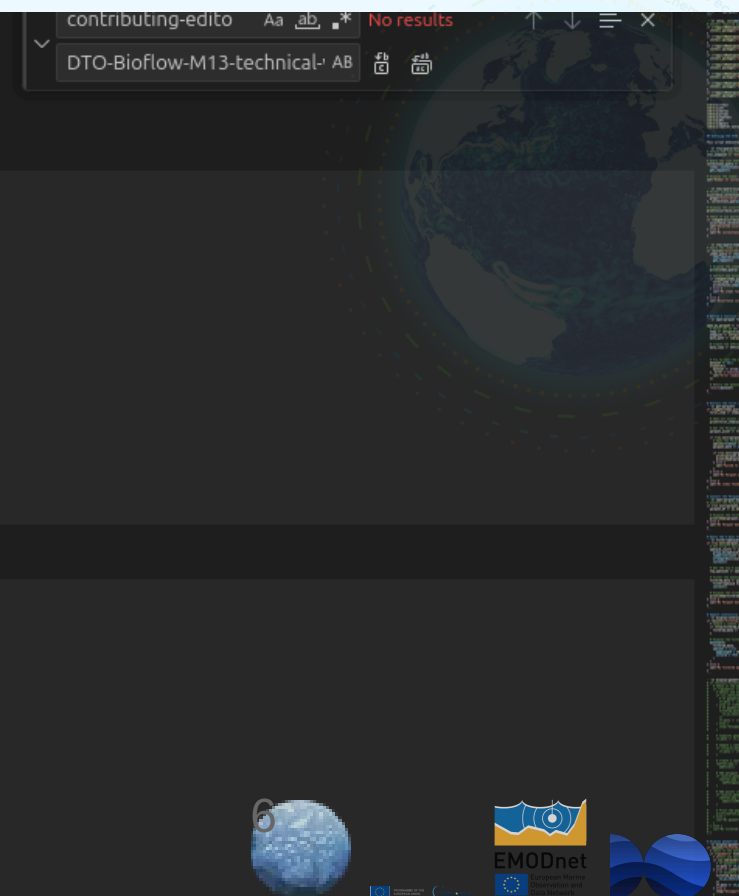


# 🧱 Example: My Tutorial on Accessing EDITO STAC

Here in this repository

[/add\\_tutorial/my\\_stac\\_r\\_tutorial/stac\\_r\\_tutorial.Rmd](#)

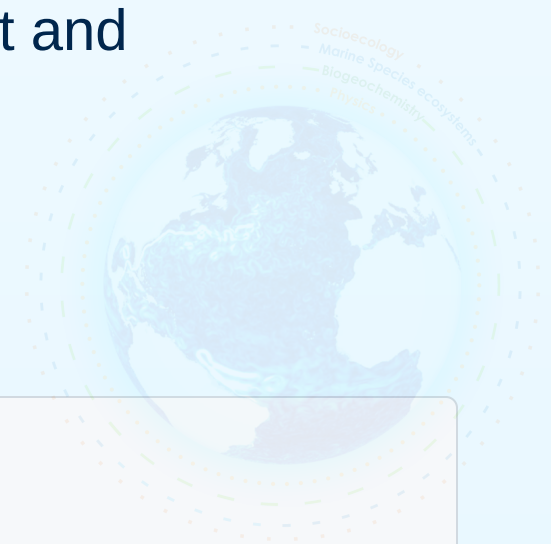
```
46 ## Querying the STAC API
47
48 This script demonstrates how to query a STAC API and download data.
49
50 Run Chunk | Run Above
51 ```{r stac-query-collections}
52 # Define the root STAC API endpoint
53 stac_endpoint <- "https://api.dive.edito.eu/data/"
54
55 # Query the root STAC API to get collections
56 collections_query <- stac(stac_endpoint) %>%
57   rstac::collections() %>%
58   get_request()
59
60 # Display the number of collections
61 cat("Number of collections:", length(collections_query$collections), "\n")
62 ```
63
64 Run Chunk | Run Above
65 ```{r stac-query-occurrence}
66 # Filter collections with 'occurrence' in their name or description directly
67 occurrence_collections <- Filter(function(collection) {
68   grepl("occurrence", collection$title, ignore.case = TRUE)
69 }, collections_query$collections)
70
71 # Display the occurrence collections
72 print(occurrence_collections)
73
74 # Check if any matching collections were found
75 if (length(occurrence_collections) > 0) {
76   occurrence_collection <- occurrence_collections[[1]]$id
```



## Recommended Folder Structure

- Not mandatory but on EDITO we need applications that are resilient and understandable for everyone
- Include a good README.md [makeareadme.com](https://makeareadme.com)
- Data and other assets separate

```
my_stac_r_tutorial/  
├── stac-r-tutorial.Rmd  
├── data/  
├── docker-compose.yml(*optional)  
└── README.md
```



## Create a Repository on your GitHub

- Go to [github.com](https://github.com)
- Click **New repository**
- Set it to **Public**

A demonstration on YouTube

Creating Your First GitHub Repository and Pushing Code [Youtube](#)





## Push Your Local Code to Your Github

```
# Initialize Git in your local directory (if not already initialized)
git init
# Add all files to the staging area
git add .
git config user.name username
git config user.email usermail@mail.com
# Commit the changes
git commit -m "Initial commit"
# Add the remote origin
git remote add origin https://github.com/username/stac-r-tutorial.git
# Push the changes to GitHub
git branch -M main
git push -u origin main
```



Creating Your First GitHub Repository and Pushing Code [Youtube](#)



# ⚙️ Make your deployment URL

## EDITO Services

### Access the Service Configuration

- Choose a service from the Service Catalog appropriate for your Tutorial
- ex. R Studio, Jupyter-python

### Add Your GitHub Repository

- In the `GIT` section add the url to your tutorial's github repository in the Repository field

### Set Resource Limits

- In the resources section, adjust CPU and memory limits as needed
- e.g., `1600m` for CPU, `5Gi` for memory



# Save Configuration and Test your tutorial

## Save the Configuration

- Click **Save** to store your settings.

## Copy the URL in your browser

- This is the link used to deploy your service and clone your github into the service

## Launch the Service

- Use the **Launch** button to start the service with your configuration.

## Test Your Tutorial

- Verify that the service clones your github, and your tutorial can be run
- Does it install the right packages?
- Does it produce the output(s) you expect?



# Configuring EDITO Service

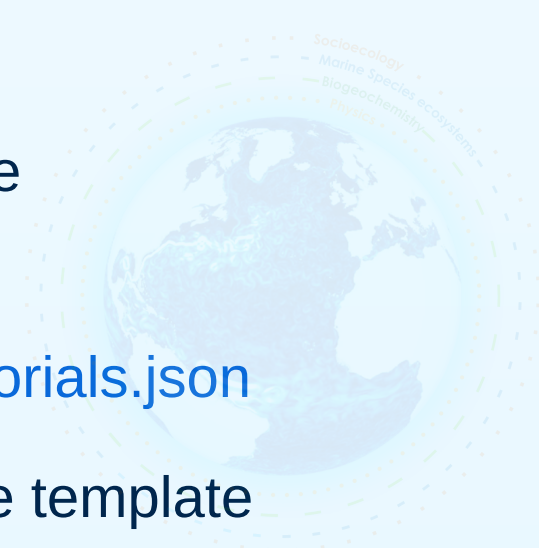


# Tutorials repository and the tutorials.json

In order to add our tutorial to the EDITO tutorials we need to add it to the `tutorials.json` list

<https://gitlab.mercator-ocean.fr/pub/edito-infra/edito-tutorials-content/tutorials.json>

We will clone this repository and add our tutorial to this list, using the the template provided in the README



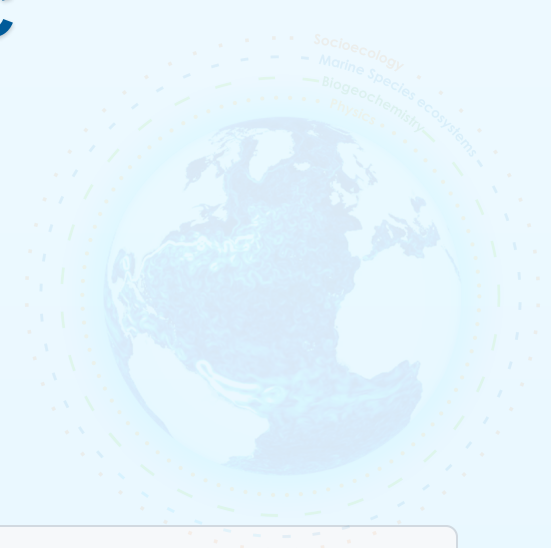
# Clone the Tutorials Repository to your Local PC

 **EDITO GitLab Tutorials:**

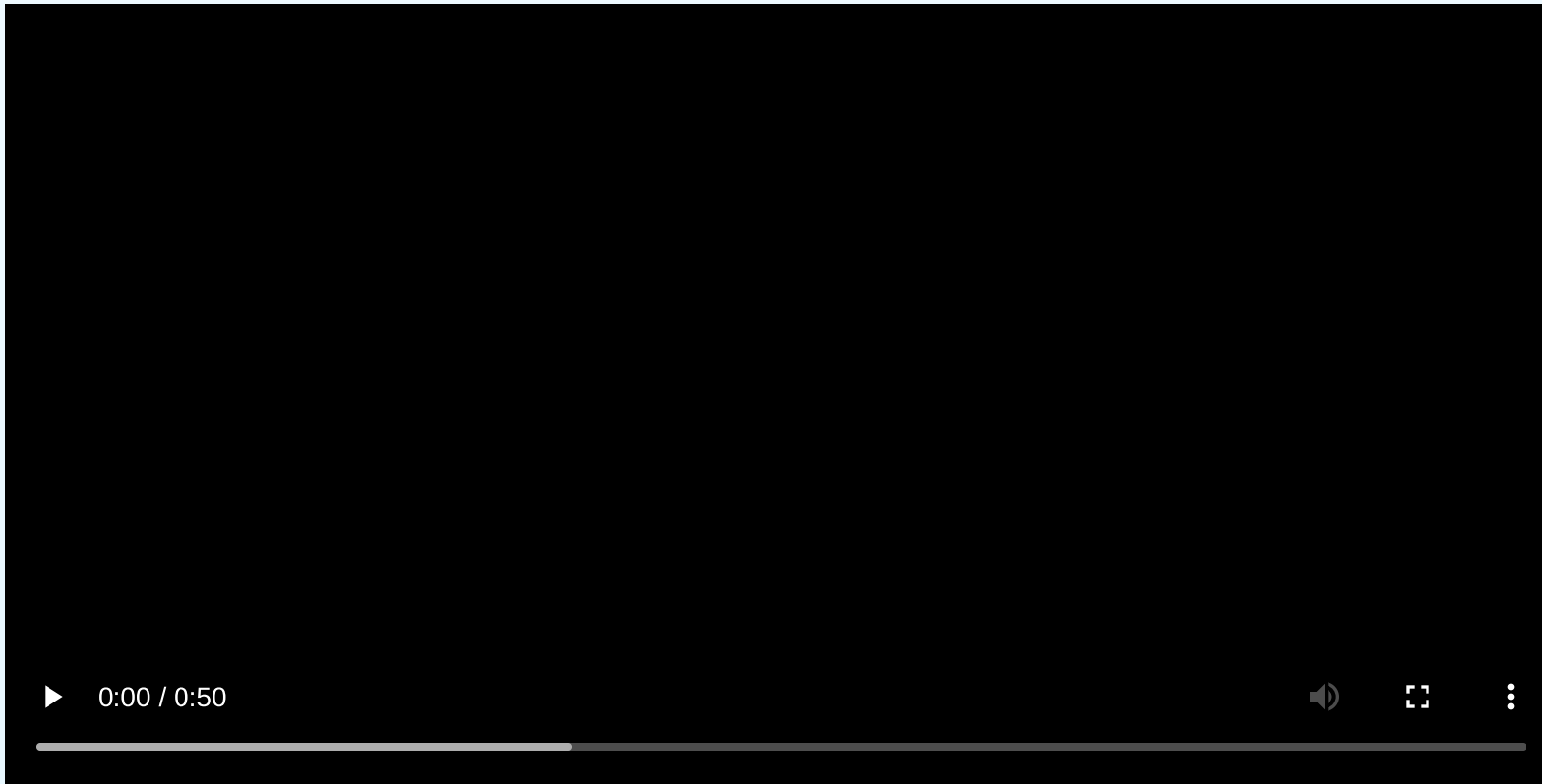
<https://gitlab.mercator-ocean.fr/pub/edito-infra/edito-tutorials-content>

 **Clone the Repo:**

```
git clone https://gitlab.mercator-ocean.fr/pub/edito-infra/edito-tutorials-content.git
```



# Cloning EDITO Tutorials Content



## Make a new branch

 **\*\*Create a New Branch\*\*:**

```
git checkout -b my-new-tutorial-branch
```

 **Push the New Branch:**

```
git push origin my-new-tutorial-branch
```



# Make branch



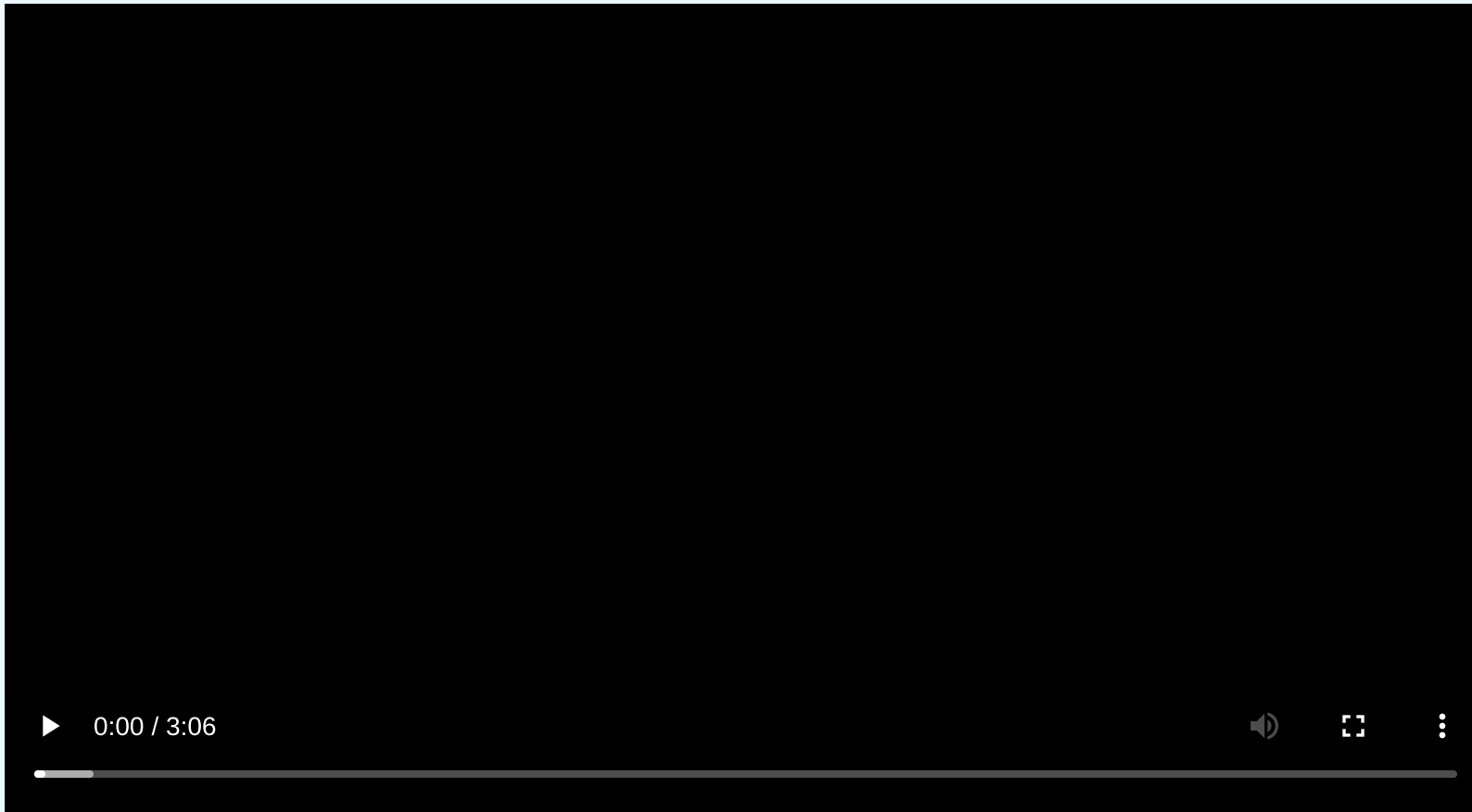
# Add your tutorial to 'tutorials.json'

## Deployment URL from previous step

```
{
  "name": {
    "en": "My New Tutorial"
  },
  "abstract": {
    "en": "A short description of your tutorial"
  },
  "authors": [
    "The authors and contributors"
  ],
  "types": [
    {
      "en": "Tutorial"
    }
  ],
  "tags": [
    "create",
  ],
  "category": "training courses in data science", // "What-If applications", "Focus applications", "training courses in data science"
  "imageUrl": "https://www.edito.eu/wp-content/uploads/2023/09/favicon.png",
  "articleUrl": {
    "en": "https://github.com/username/stac-r-tutorial", // Your github
  }
  "deploymentUrl": "https://datalab.dive.edito.eu/mydeployment.configuration.git.resources.etc"// DEPLOYMENT URL FROM PREVIOUS STEP
  // parts: []
}
```



# Adding to tutorials.json



# Push your updates onto your branch

```
# Stage all changes
git add .
# Commit the changes with a descriptive message
git commit -m "Added my awesome tutorial to tutorials.json"
# Push the changes to your branch
git push origin my-new-tutorial-branch
```



## Create a Merge Request

- Check the gitlab <https://gitlab.mercator-ocean.fr/pub/edito-infra/edito-tutorials-content>
- See if your commit is in a pipeline and if it passes or not
- If it passes, create a Merge Request
- In your merge request, '@pub/edito-infra/codeowners' to request code owners to review your proposal.

## ✓ Final Review Checklist

- ✓ Tutorial `.Rmd` created and runs
- ➡ GitHub repo is public and clean
- 🔗 Launch link tested
- ✓ `tutorials.json` updated
- ✓ Committed to Gitlab and passes Pipeline
- ✓ Merge Request submitted



🙌 **Done!**

Once your Merge Request is approved

🎉 You've contributed to EDITO Datalab!

Your tutorial is now one click away from reproducible research!

💬 Issues? Email [edito-infra-dev@mercator-ocean.eu](mailto:edito-infra-dev@mercator-ocean.eu)

🔗 [Contribution Docs](#)

