Working with BioVeL Portal

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http://www.taverna.org.uk/

Running your workflow in BioVeL

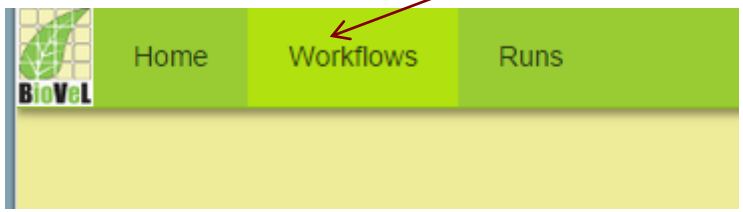
- Go to http://portal.biovel.eu
- Login or set up a user account
  - If you are not part of any of the listed projects or Institutions please select “Training” and “Others”
  - You will not be able to run workflows until approved.

Running your workflow in BioVeL

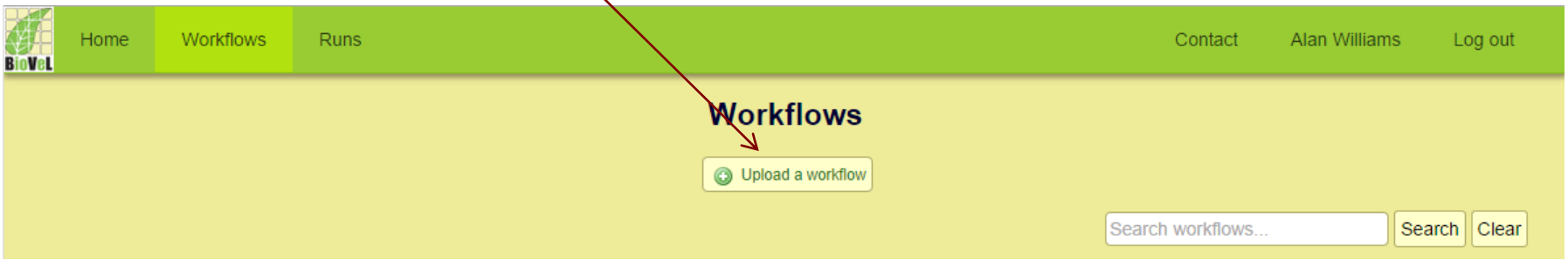
- In this short tutorial we will work with the BioVeL portal
- We will upload the Species_Occurrence workflow which we created in the “Using BiodiversityCatalogue” tutorial and run it in the portal
  - Available from http://www.myexperiment.org/workflows/4484.html

Upload the workflow

- Click on the Workflows tab

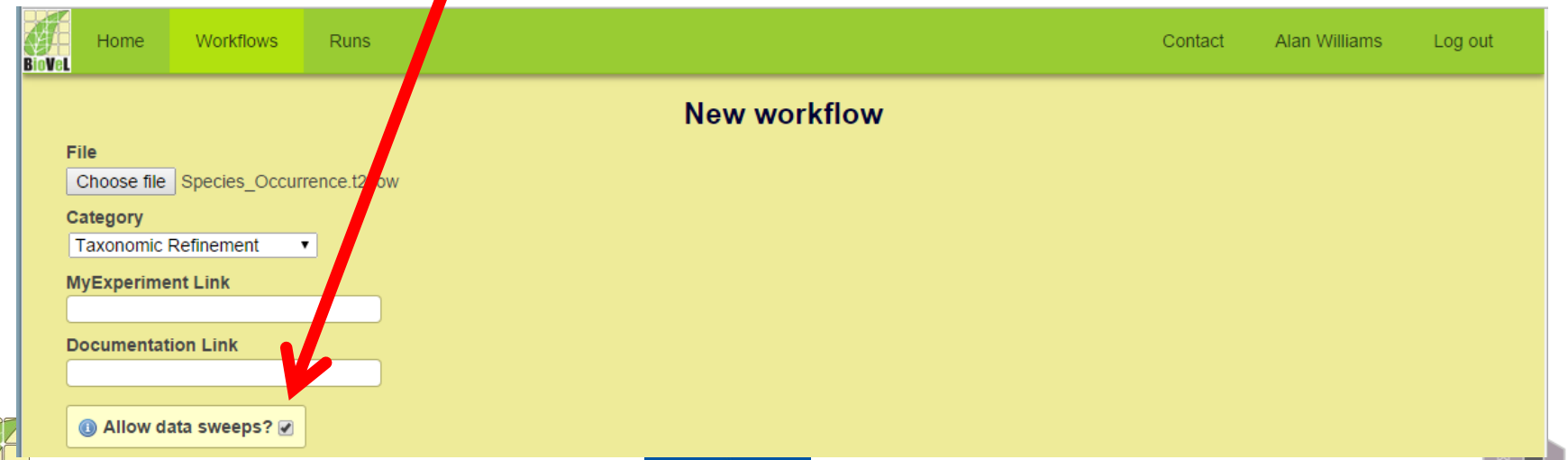


- Then click Upload a workflow



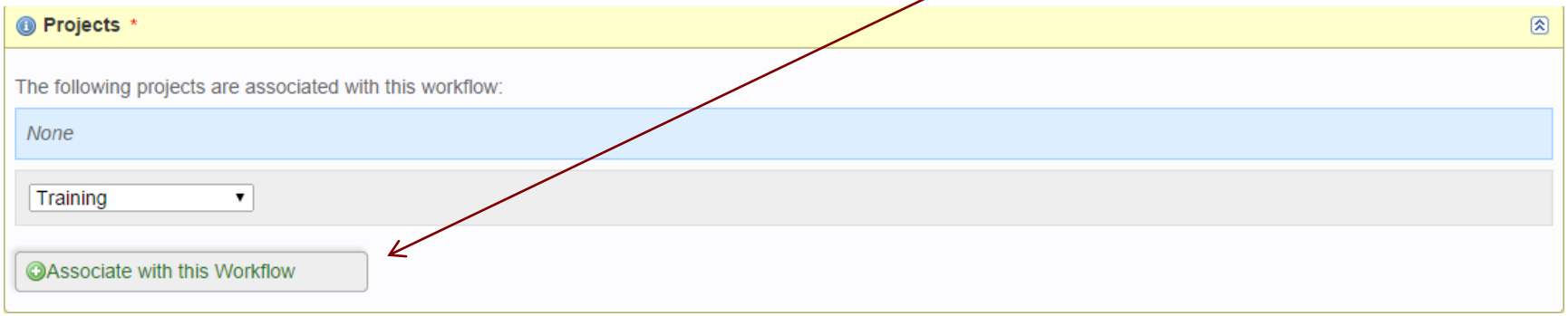
Upload the workflow

- You can upload a workflow from your local drive
- Select a suitable category such as “Other”
- Tick “Allow data sweeps” if you want to be able run the same workflow over multiple data values



Upload the workflow

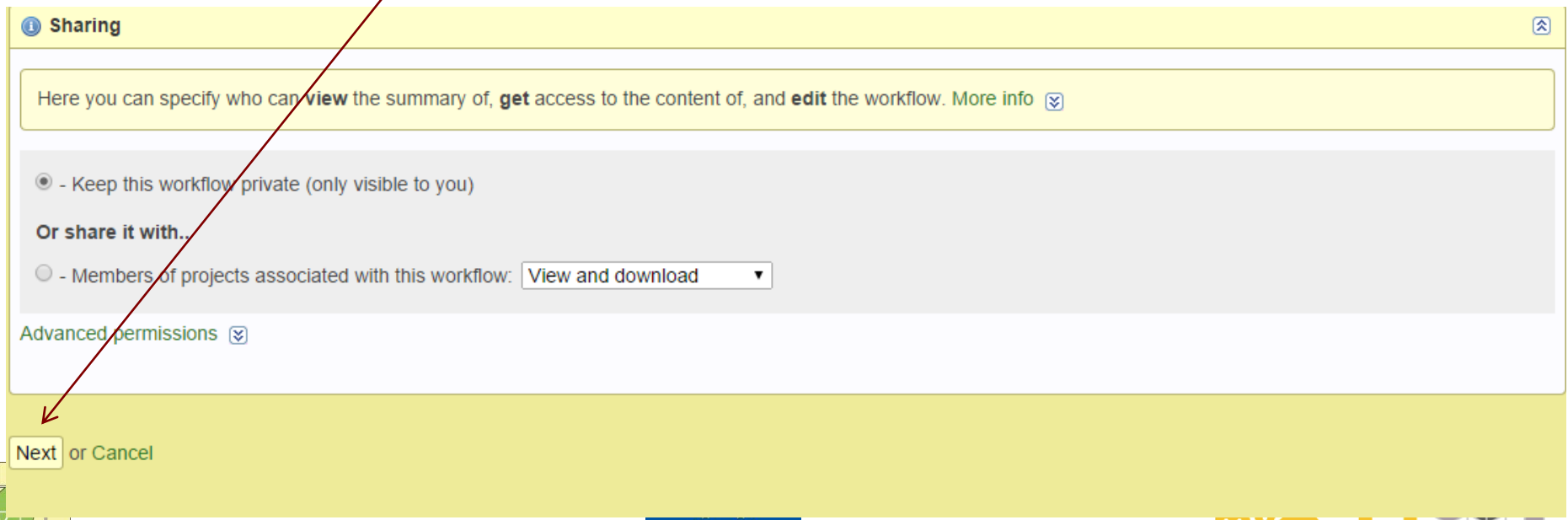
- Workflows are associated with a project
- Select “Training” and then click “Associate with this Workflow”



- If you joined the portal, in a project different to “Training” please use that one instead.

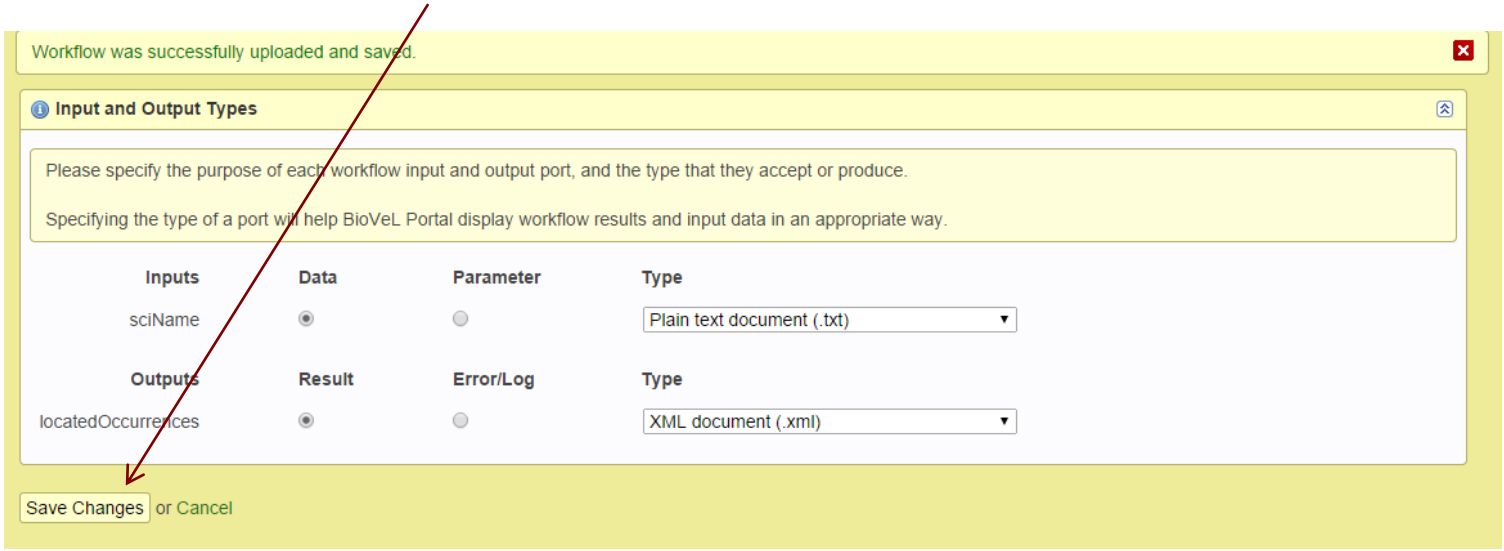
Upload the workflow

- You can leave the Sharing as private
- Then click “Next”



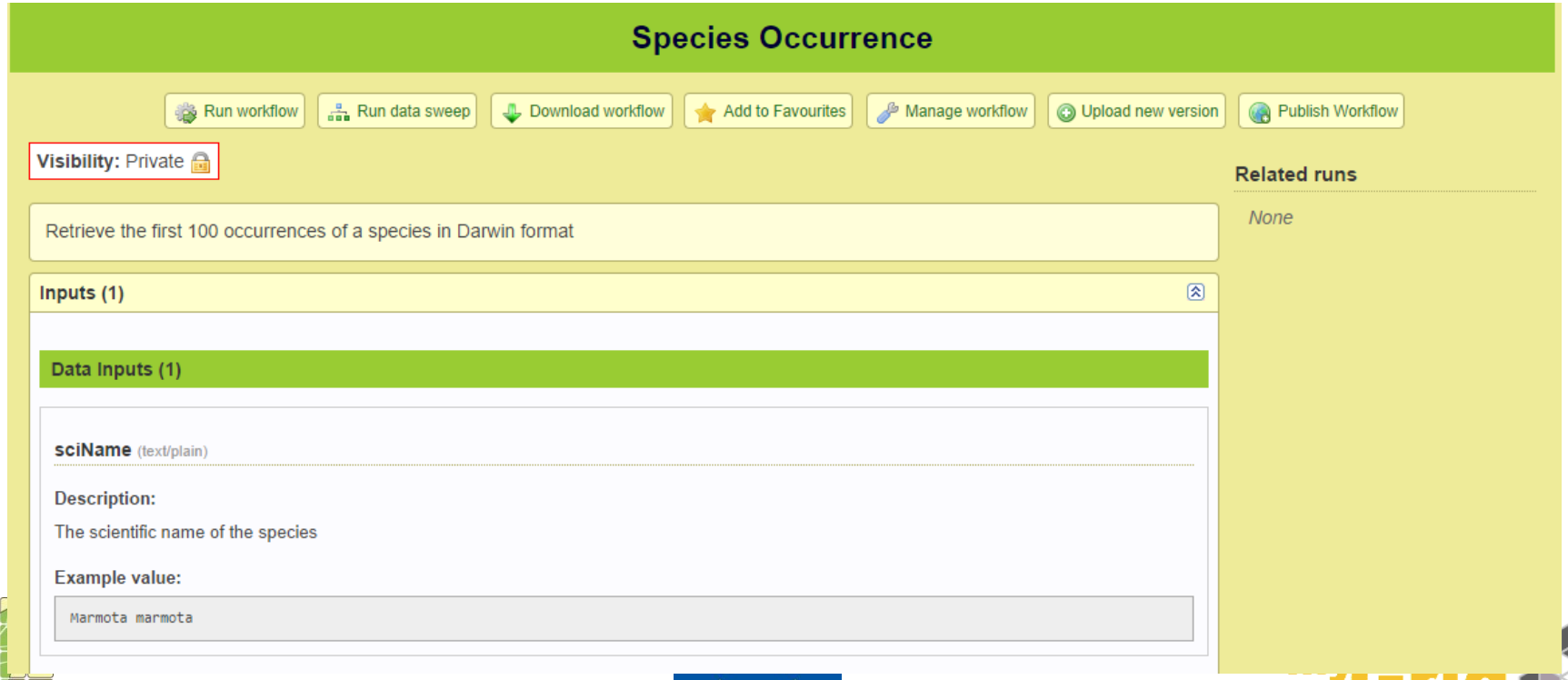
Upload the workflow

- We can now categorize the inputs and outputs, and specify the type their value has
- Set sciName's type to "Plain text document" and locatedOccurrences to XML document
- Click "Save Changes"



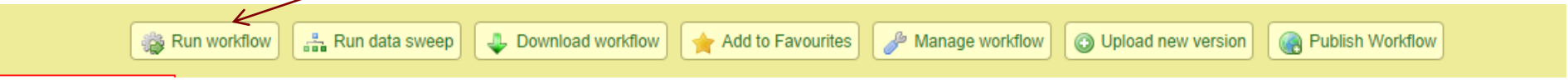
Workflow information

- You can see the information about the workflow is now visible in the portal



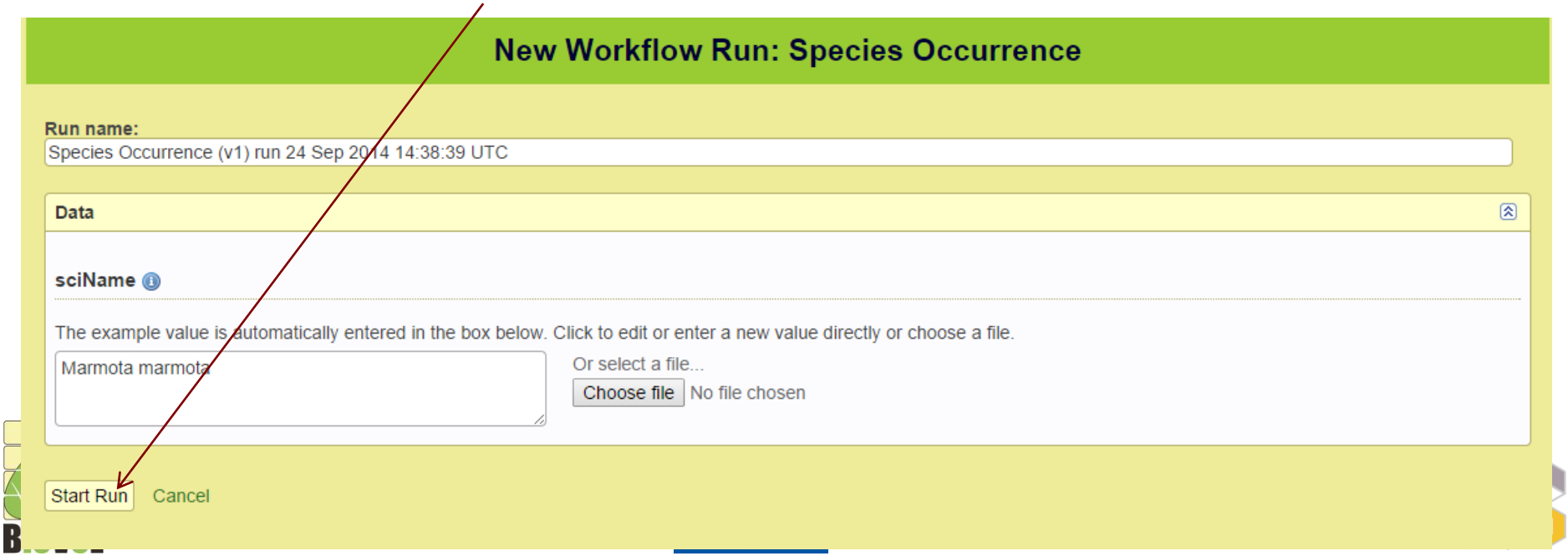
Running a workflow

- Now we can run our uploaded workflow in the portal
- Click on “Run workflow”



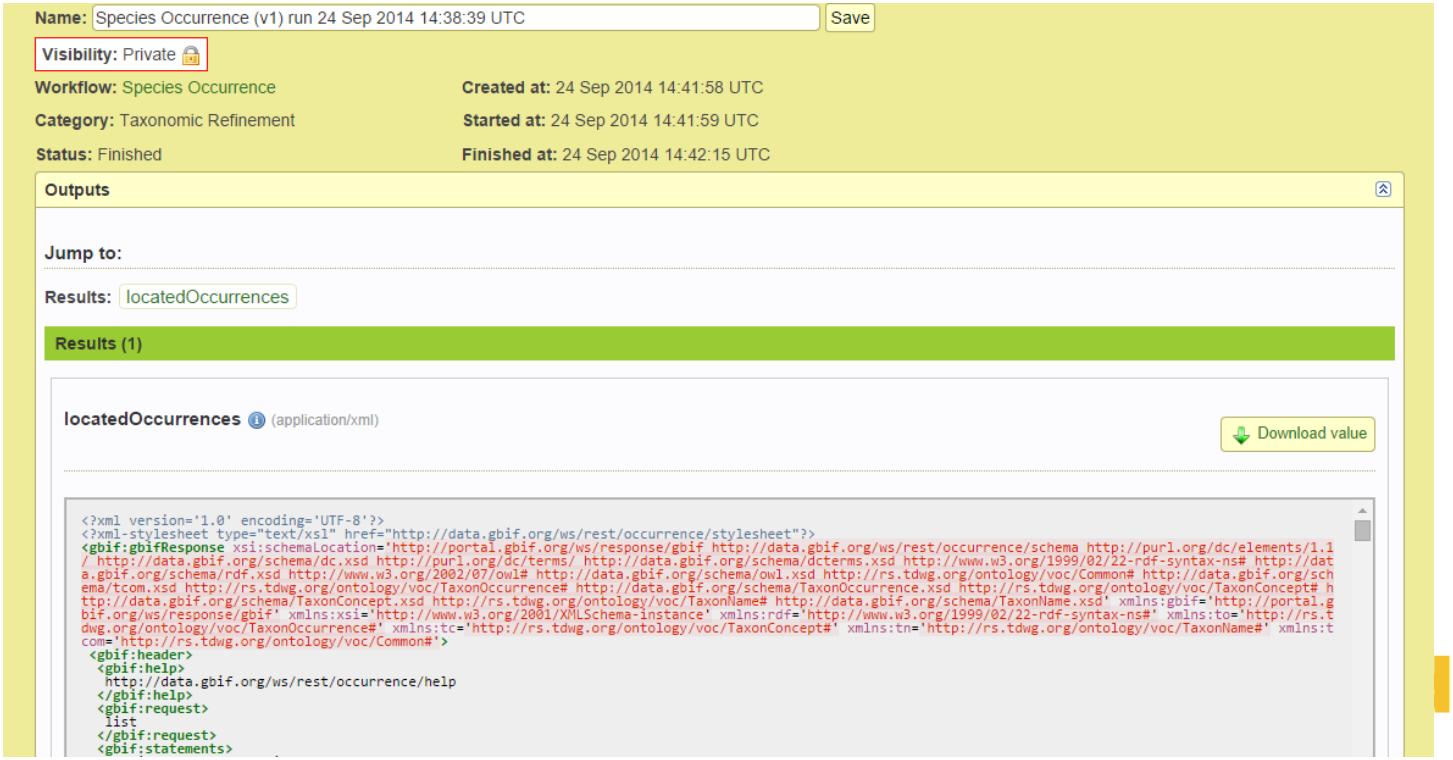
Running a workflow - 2

- You can now enter values for the inputs
- For the first run, use the example value
- Click “Start Run”



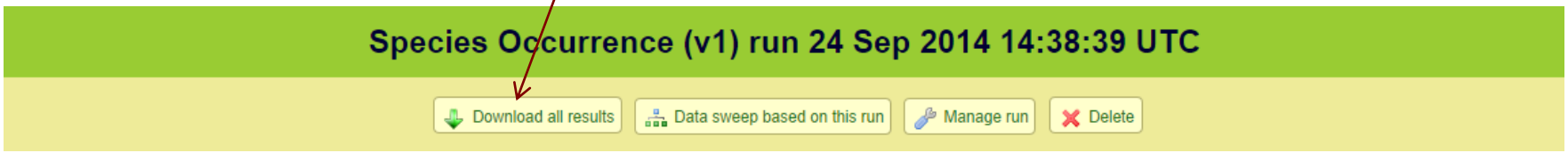
Running a workflow - 3

- And the workflow should run…
- When finished you will see the results in the browser page

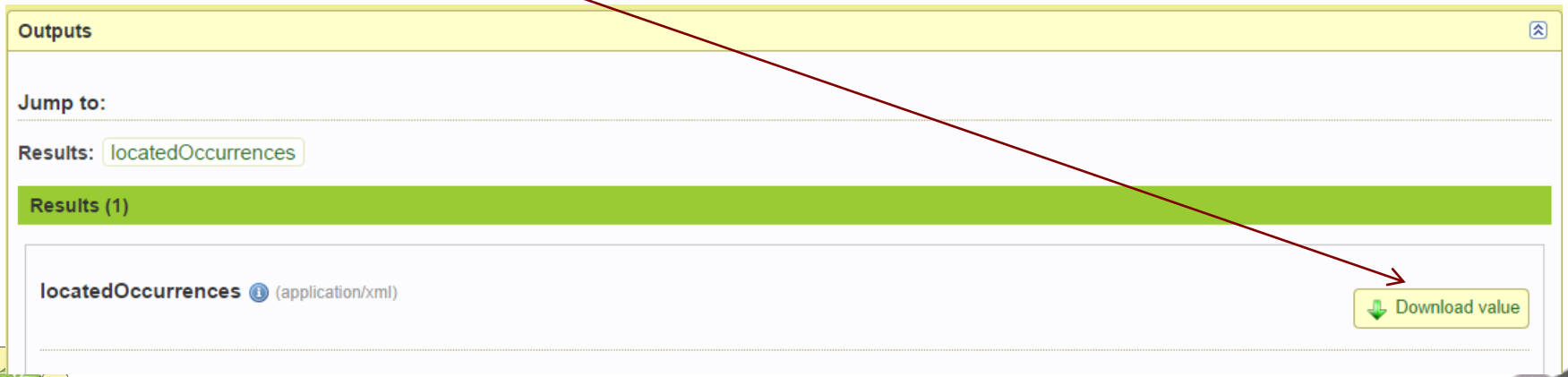


Running a workflow - 4

- You can download all the results in a zip file

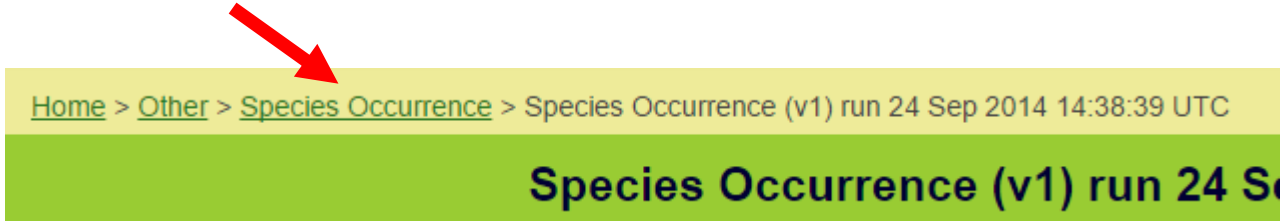


- Or download an individual result

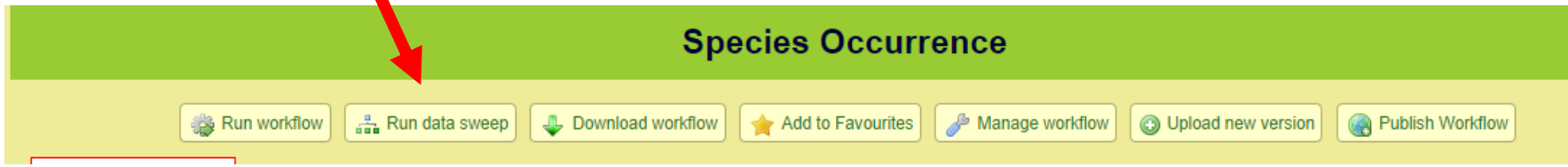


Creating a sweep

- Go back to the workflow

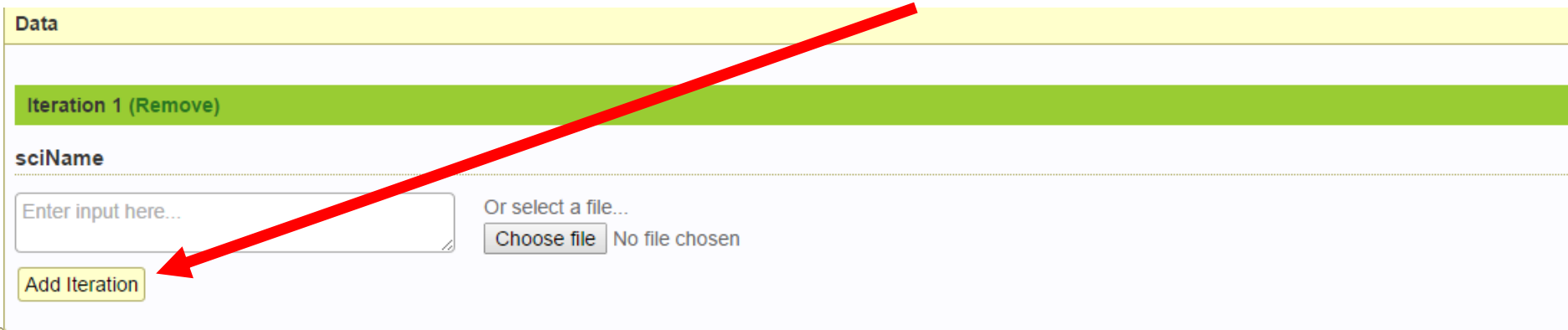


- Click **Run data sweep**



Sweep data

- For each workflow input, you can choose to iterate over it (change its value over the sweep) – otherwise you will give a fixed value for all iterations
- We are sweeping over *sciName* so leave it ticked
- For each iteration specify the input values
  - To create a new iteration click **Add Iteration**



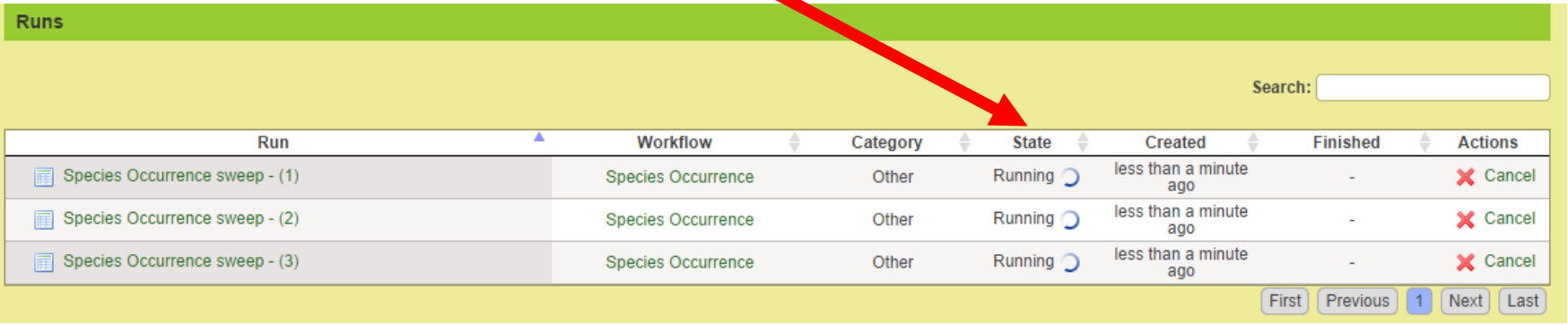
Starting the sweep

- You can use any species names
- Create two additional iterations
- Use
  - Limulus polyphemus
  - Kogia breviceps
  - Marmota marmot

  as the three sciName values
  - Warning: Make sure there is no space or newline after the values
  - Warning: Don't press **Add Iteration** after entering the values of the last sweep or it will create an additional blank sweep
- Click **Start sweep**

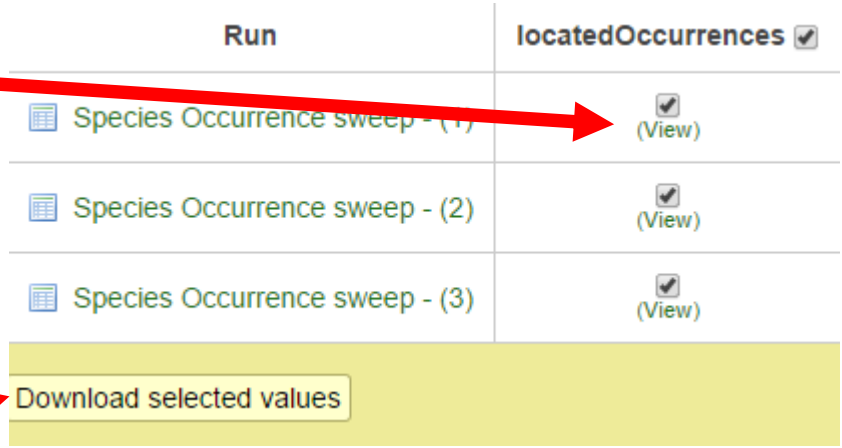
Running sweeps

- You will see the state of the sweep iterations
  - perhaps queued then
  - Running then
  - Finished



Viewing sweep results

- When a sweep iteration has finished you can click on the Run and view it (as we did before)
- You can view results from the Sweep page by clicking on (View) in the Sweep results table
- You can also pick which values to download



Portal summary

- You now know how to upload a workflow to the portal
- Describe the ports of the workflow
- Perform a single workflow run
- Use the workflow to sweep over data values