

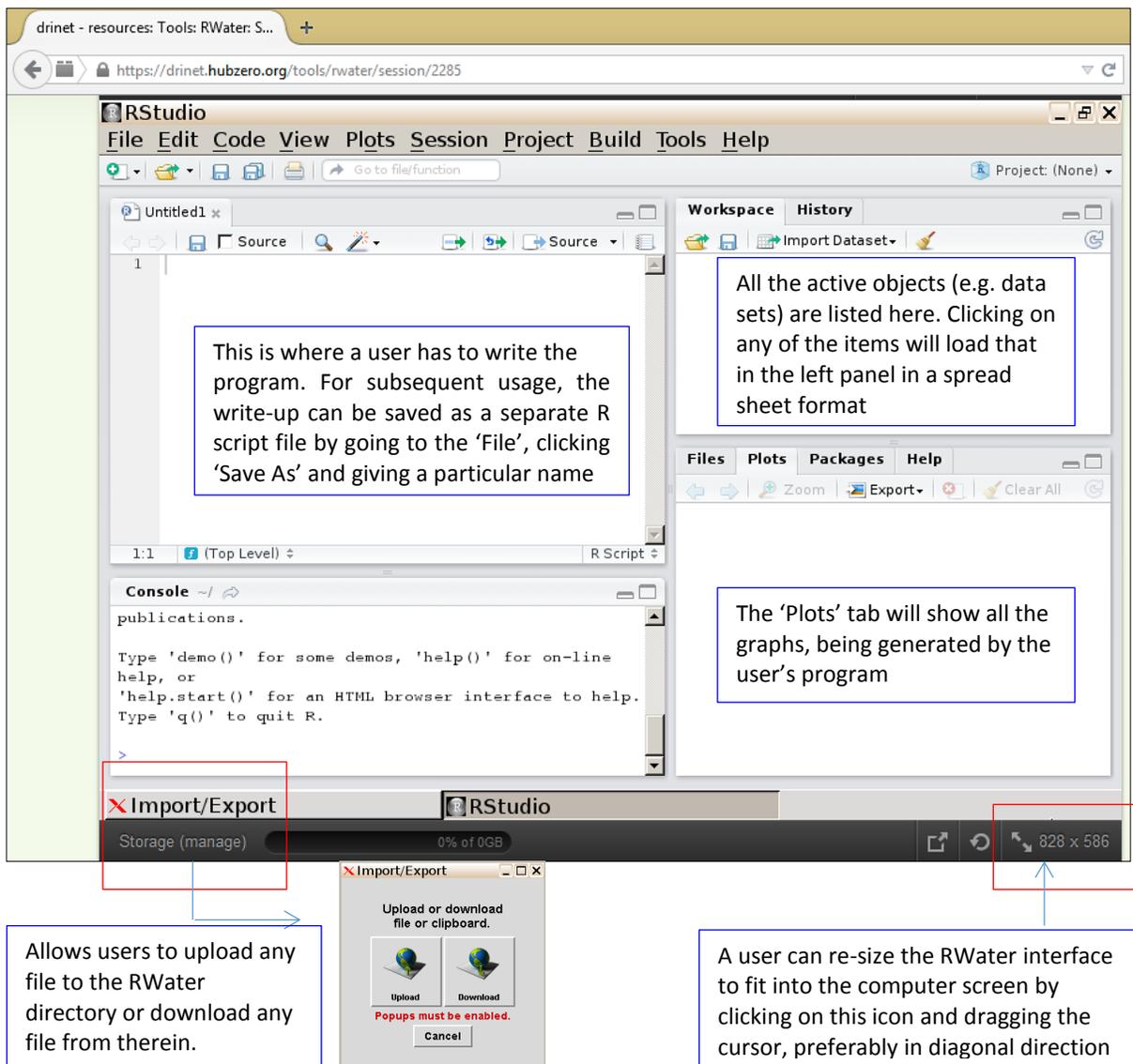
Introduction to RWater Interface

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Creating User Account and Launching the Interface

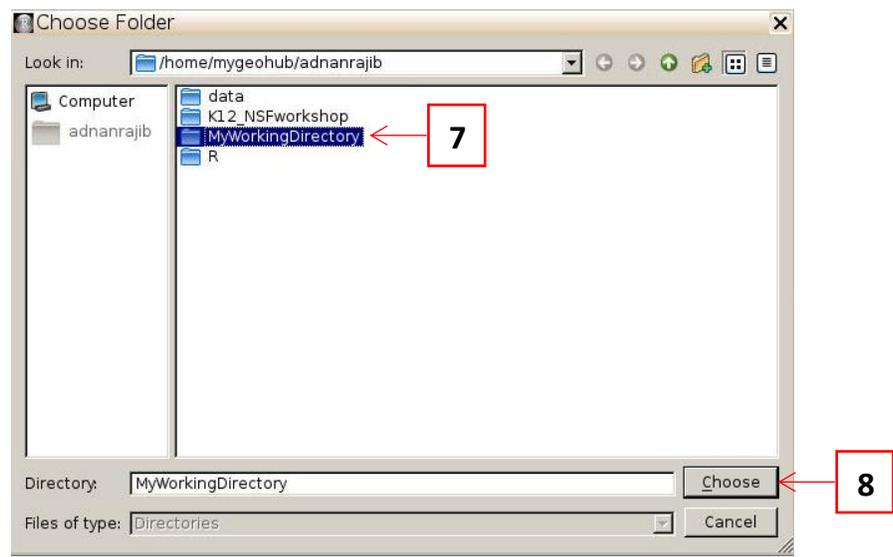
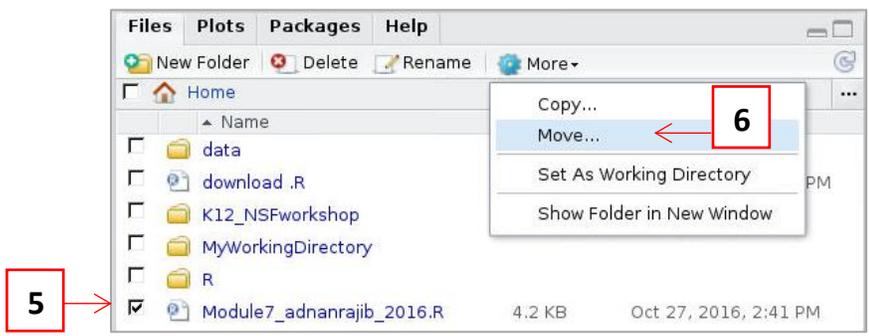
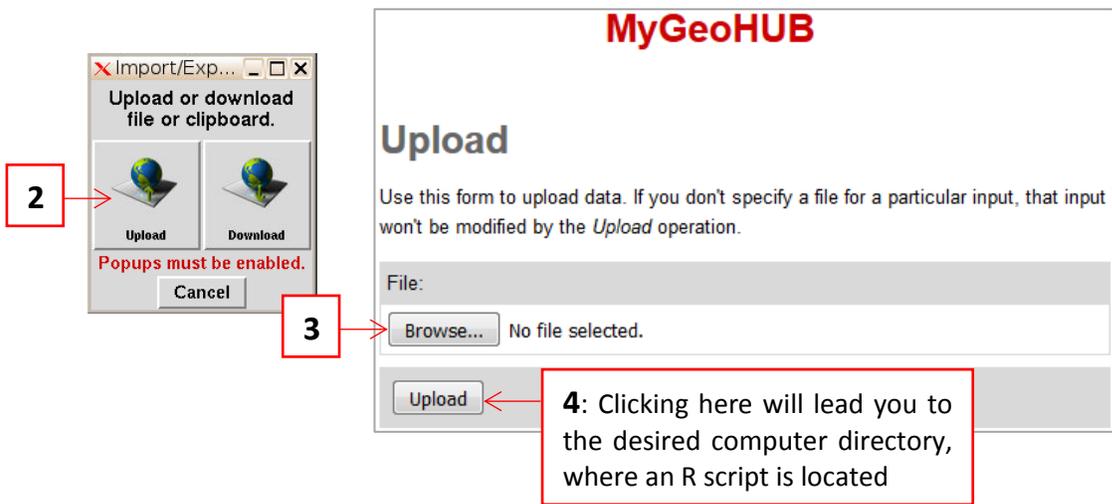
Any user with a valid email address can create a user account in Purdue University's **mygeohub** (<https://mygeohub.org/tools/rwater>) and access RWater. After clicking the **Launch Tool** button following interface will appear. It has three major parts: (i) scripting panel, (ii) data workspace and (iii) plots window.



Creating a Working Directory

A working directory is where the user wants to store all the works of the current project. In the *Session* tab, click on **Set Working Directory** and then **Choose Directory**. This will prompt to the RWater's home directory, where user can create a new folder simply by right clicking on the cursor, rename it and select **Choose** (right corner).

Loading an R script from Local Computer to RWater Working Directory



Running RWater Tool

11: Run button

```
1  
2 ### STEP 1  
3 ### Removing previously  
4 ### Removing all previous  
5 cat("\014")  
6 rm(list = ls())  
7 dev.off()  
8  
9 ### STEP 2  
10 ### Loading two specific packages into RWater  
11 library(dataRetrieval)  
12 library(xts)  
13  
14 ### STEP 3  
15 ### Get the Peak Annual Discharge  
16 mysite<- 'XXXX'  
17 annualpeak<-readNWISpeak(mysite)  
18  
19 ### STEP 4  
20 ### Split the downloaded data into two periods  
21 bb71_90<-subset(annualpeak,  
22                 peak_dt>="YYYY-MM-DD"  
23                 &peak_dt<="YYYY-MM-DD")  
24
```

10: Clicking on the R script will load it in the left panel, where you can edit/modify the script and run

13

14

12

USGS 03340500, 1956-2015

Annual Peak Flow (cfs)

Return Period, T (year)