**Hands-on Workshop for Accessing, Processing, and Analyzing ECOSTRESS Data: Pre-Workshop Instructions**

1. Register for a NASA Earthdata Login Account (if you do not already have one)
   1. Go to <https://urs.earthdata.nasa.gov/> and click the blue REGISTER button
2. Sign up for the ECOSTRESS Early Adopters Program using your NASA Earthdata Login Account
   1. Additional information on the Early Adopters program can be found here: <https://ecostress.jpl.nasa.gov/early-adopters>
   2. Submit a plan for Early Adopter status here: <https://ecostress.jpl.nasa.gov/applications/app_request>
      1. Make sure that **EarthData User ID** matches your NASA Earthdata Login Account.
      2. Unsure how to fill out any sections in the form? enter “ECOSTRESS Workshop”
3. Download the following files:
   1. <https://ecostress.jpl.nasa.gov/mar21workshop>
      1. [ECOSTRESS\_L3\_ET\_PT-JPL\_00468\_007\_20180805T220314\_0502\_02.h5](https://ecostress.jpl.nasa.gov/downloads/workshop2019/ECOSTRESS_L3_ET_PT-JPL_00468_007_20180805T220314_0502_02.h5)
      2. [ECOSTRESS\_L1B\_GEO\_00468\_007\_20180805T220314\_0502\_02.h5](https://ecostress.jpl.nasa.gov/downloads/workshop2019/ECOSTRESS_L1B_GEO_00468_007_20180805T220314_0502_02.h5)
   2. <https://git.earthdata.nasa.gov/projects/LPDUR/repos/ecostress-workshop/browse>
      1. All files
   3. **It is recommended to create an easy-to-locate workshop directory on your computer that includes the repository files and the ECOSTRESS data files**
      1. **Give yourself plenty of time to download the files—the total size is ~1.8 gb**
4. Python Environment Setup
   1. Go to: <https://git.earthdata.nasa.gov/projects/LPDUR/repos/tutorial-ecostress/browse> and scroll through the README until you reach the **Python Environment Setup** Section.
   2. Run through the setup for your OS using the yml file downloaded in step 3b above pertaining to your OS (Linux users should be able to modify the MacOS Setup instructions).
      1. **Creating this Python environment may also take a significant amount of time.**
5. QGIS Setup
   1. Download and install the current stable version of QGIS (3.4.5 was used at workshop) at:
      1. <https://qgis.org/en/site/forusers/download.html>
   2. Install the latest version of the HCMGIS plugin to enable basemaps
      1. In QGIS, go to the menu **Plugins** -> **Manage and Install Plugins**
         1. A dialog box should appear
      2. In the search bar, type **HCMGIS**
         1. There should be one search result under this name
      3. Click on the **HCMGIS** search result
         1. You should see a description titled “HCMGIS - Geometry Processing and Field Calculation Utilities”
      4. Click on **Install Plugin**
         1. A progress bar should briefly appear
         2. Once it’s installed, the Install Plugin button should no longer be available
      5. Click **Close** to exit the plugin manager
6. Join the ecostress early adopter slack space: <https://ecostressearlyadopter.slack.com/>
   1. join the #workshop channel
7. Troubleshooting: Experiencing issues getting through the instructions? Contact us at:
   1. Slack:
      1. Post to the #workshop channel (others may have the same question/issue—or may know how to help as well)
   2. Slack Personal Message:
      1. Ckrehbiel and/or Gregory H. Halverson
      2. Email: [gregory.h.halverson@jpl.nasa.gov](mailto:gregory.h.halverson@jpl.nasa.gov) and/or [ckrehbiel@contractor.usgs.gov](mailto:ckrehbiel@contractor.usgs.gov)