

Introduction to Bash and GrADS scripting

1. Install the prerequisite packages

Here are the packages and software you may need to fully take advantage of the tools developed by ACMAD and NOAA/CPC to deliver Climate Services.

- If your working environment is Windows, use the following to get the instructions on how to make your system ready:
https://sgbd.acmad.org/thredds/fileServer/ACMAD/CDD/training-service/Tools/1-Inst_for_prerqst_mat/Prerequisite_packages_for_Windows_Users.pdf
- If your working environment is Linux (Ubuntu, Fedora, ...), use the following to get the instructions on how to make your system ready:
https://sgbd.acmad.org/thredds/fileServer/ACMAD/CDD/training-service/Tools/1-Inst_for_prerqst_mat/Prerequisite_packages_for_Linux_Users.pdf
- If your operating system is macOS, use the following to get the instructions to make your system ready:
https://sgbd.acmad.org/thredds/fileServer/ACMAD/CDD/training-service/Tools/1-Inst_for_prerqst_mat/Prerequisite_packages_for_Mac_Users.pdf

2. Introduction to Bash Scripting

Description	Tutorial to be used
Initiation Bash Scripting	https://sgbd.acmad.org/thredds/fileServer/ACMAD/CDD/training-service/Tools/2-Intro_to_Linux/Introduction_Linux_and_Shell_Scripting.pdf

3. GrADS Training Tutorial

GrADS - Grid Analysis and Display System - is an interactive software used in the tasks of accessing, manipulation and visualization of geophysical data. Currently, GrADS is one of the most widely used software by the operational and meteorological research communities around the world.

		Tutorial to be used	Related Data
Quick Introduction to GrADS		https://sgbd.acmad.org/thredds/fileServer/ACMAD/CDD/training/service/Tools/3-GrADS_Training/Training_GrADS_exercises.pdf	https://sgbd.acmad.org/thredds/fileServer/ACMAD/CDD/training/service/Tools/3-GrADS_Training/gradstrainingdata/model.ctl https://sgbd.acmad.org/thredds/fileServer/ACMAD/CDD/training/service/Tools/3-GrADS_Training/gradstrainingdata/model.dat
Intermediary	Overview	https://sgbd.acmad.org/thredds/fileServer/ACMAD/CDD/training/service/Tools/3-GrADS_Training/Introduction_GrADS.pdf	https://ftp.cpc.ncep.noaa.gov/International/usrc/c/training/2019/day3/introduction_grads.zip
	Practice	https://sgbd.acmad.org/thredds/fileServer/ACMAD/CDD/training/service/Tools/3-GrADS_Training/Practical_Exercises_GrADS.pdf	
Advanced		https://sgbd.acmad.org/thredds/fileServer/ACMAD/CDD/training/service/Tools/3-GrADS_Training/Advanced_GrADS_Manual.pdf	https://sgbd.acmad.org/thredds/fileServer/ACMAD/CDD/training/service/Tools/3-GrADS_Training/gradstrainingdata/gfs_sample.ctl https://sgbd.acmad.org/thredds/fileServer/ACMAD/CDD/training/service/Tools/3-GrADS_Training/gradstrainingdata/gfs_sample.grb2 https://sgbd.acmad.org/thredds/fileServer/ACMAD/CDD/training/service/Tools/3-GrADS_Training/gradstrainingdata/gfs_sample.grb2.idx https://sgbd.acmad.org/thredds/fileServer/ACMAD/CDD/training/service/Tools/3-GrADS_Training/gradstrainingdata/model.ctl https://sgbd.acmad.org/thredds/fileServer/ACMAD/CDD/training/service/Tools/3-GrADS_Training/gradstrainingdata/model.dat https://sgbd.acmad.org/thredds/fileServer/ACMAD/CDD/training/service/Tools/3-GrADS_Training/gradstrainingdata/olr_month.ctl https://sgbd.acmad.org/thredds/fileServer/ACMAD/CDD/training/service/Tools/3-GrADS_Training/gradstrainingdata/olr_month.dat https://sgbd.acmad.org/thredds/fileServer/ACMAD/CDD/training/service/Tools/3-GrADS_Training/gradstrainingdata/rain_arc_month.ctl https://sgbd.acmad.org/thredds/fileServer/ACMAD/CDD/training/service/Tools/3-GrADS_Training/gradstrainingdata/rain_arc_month.dat