

Some of Agrimetsoft Products:

DMAP (Drought Monitor And Prediction Tool): The DMAP tool is a comprehensive tool that can run 18 drought indices, namely meteorological drought (SPI, PN, DI, RAI, RDI, ZSI, CZI, MCZI, EDI, KBDI, PDSI, PHDI, SPEI), agricultural drought (ETDI, SMDI, ARI), and hydrological drought (SWSI and SDI).

RDIT (Rain-based Drought Indices): The “RDIT” tool can calculate and perform rain-based drought indices with severity and duration of the drought event.

NetCDF (Unidata’s Network Common Data Form): The NetCDF Extractor software is an easy tool for all users to extract their aim region from the main files in nc format. This tool is flexible to run for various datasets such as CMIP5 models, AgMERRA datasets, CRU, CORDEX, and etc.

SDGCM (Statistical Downscaling of General Circulation Models): The SDGCM is a useful tool for downscaling CMIP5 models under RCPs Scenarios, such as EQM, QM, Delta.

CORDEX Data Extractor: This tool is a windows desktop software for extracting data from CORDEX NetCDF files.

International Workshop Advanced Tools for Drought Monitoring and Adaptations

10th Oct 2018
9:30 a.m. to 4:30 p.m.

Resource Persons

- 1- Dr. Nasrin Salehnia
- 2- Sohrab Kolsoumi

Focal Person

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Agrimetsoft's goal is to develop various user-friendly software applications that they can assist scholars, researchers, and scientists to investigate, evaluate and assess these changes through this software tools.

A variety of software packages related to meteorological, Agricultural and climate sciences are developed, maintained, and supported by the Agrimetsoft. In one of our products, we apply CMIP5 data outputs and new statistical downscaling to produce future weather data that they can be used in agricultural models inputs to depict better agricultural insight for the future.

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What will we do in the workshop?

- * Introduction and clarifications of drought event (indices, types, research in this field, and etc.).
- * Introduce of WD (Weather Data Tool, Excel add-ins) and MDM (Meteorological Drought Monitor) Tools.
- * Introduce of KBDI (Keetch-Byram Drought Index) Tool.
- * Do exercises and run the tools.

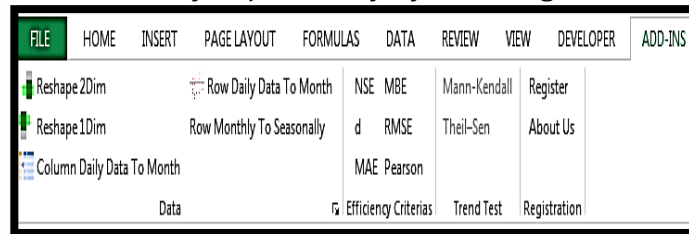


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What Is The WD Tool?

When you want to use weather variables in a specific shape, you require different time amounts in columns or rows, or change monthly data to yearly, daily to monthly or seasonal, and etc., if you want to do this transformation for whole data by Excel or coding, it would be tedious and time-consuming, in this time WD assists you easily.

As well, in your researches and papers, for presenting the ability of your model, you need to calculate different efficiency criteria, such as R^2 , NSE Nash-Sutcliffe model efficiency coefficient, d, MAE (Mean Absolute Error), MBE (Mean Bias Error), and etc., WD computes these indices for you just easily by selecting the data.



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What Is The MDM Tool?

The “MDM” (Meteorological Drought Monitoring) software application is used for calculating precipitation-based indices, namely SPI (Standardized Precipitation Index), DI (deciles index), PN (Percent of Normal Index), RAI (Rainfall Anomaly Index), EDI (effective drought index), CZI (China-Z index), MCZI (modified CZI), and ZSI (Z-Score Index) in form of yearly, seasonally, monthly and moving average for 3, 6, 9, 12, 18, 24, and 48 months. MDM can plot different graphs and show the amount of rain-based indices. It uses AgMERRA data for calculating the indices by easily click on the map.



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We Want to Assist you!
Please send us an email
(support@agrimetsoft.com), we will help you!

