

Follow-up to GWSDAT SEIMA workshop March 22nd, 2023

What is GWSDAT (Groundwater Spatiotemporal Data Analysis Tool):

GWSDAT is a user- friendly Microsoft Excel Add-In that can be used to visualize and interpret groundwater monitoring data.

Key features include:

- Spatiotemporal modelling capability: uses statistical methods to continuously model variation in groundwater solute concentration as a function of X,Y and time
- Automatic generation of concentration contour plots at user specified time intervals, with the option to overlay groundwater elevation contours and NAPL thickness/ footprint data

Benefits:

- Improved data transparency helps design and optimize groundwater monitoring or remediation programs (i.e., avoid the collection of redundant data)
- Early identification of new releases, migration pathways, need for corrective action and stable/ declining trends that may aid in closure determinations
- Rapid interpretation of complex data sets from large monitoring networks (e.g., refineries, terminals, fertilizer Depots)

GWSDAT is available in both an installed version (see install instructions on next pg.)

And a web-based version is available: <https://stats-glasgow.shinyapps.io/GWSDAT/>

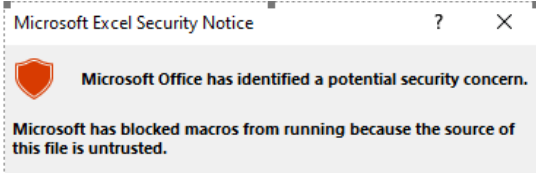
For more info:

- **Go to GWSDAT Website:** <http://gwsdat.net/>
- **GWSDAT User Manual:** http://gwsdat.net/gwsdat_manual/



IF you missed the Workshop Watch GWSDAT Webinar: [GWSDAT youtube seminar](#)

GWSDAT INSTALLATION INSTRUCTIONS:

1. Download and install the latest version of the open-source statistical application "R" available from: <http://cran.r-project.org/bin/windows/base/>. Please accept all default settings during installation. (**Users must have administrator access rights** to install R).
 - **IMPORTANT:** When installing R, please ensure the installation file path is set to a **writable directory** (e.g., base level of (C:) drive and not (C:) > Program Files for most users).
2. Click and download GWSDAT software from either the API or Claire website links below:
 - [API | GWSDAT](#)
 - [Downloads and Installation - Page 6 \(claire.co.uk\)](#)
3. Unzip GWSDAT to a **readable/writeable** location on your computer, example:
C:\Users\DoctorRoboto\Documents\GWSDAT_v3.10
4. Open up Excel and install the GWSDAT add-in by choosing: **"Office button" > "Excel Options" > "Add-Ins" > "Go" > "Browse"** (go to location in Step 3 above) and then select **"GWSDAT V3.00.xlam"**
5. **If you receive an Excel Security error** such as this, follow the additional steps below:
6. To add folder location for GWSDAT to 'trusted locations' in EXCEL:
 - open EXCEL, click on 'File' Menu,
 - click on 'options' at bottom of list (left-side, green band)
 - click on 'Trust Center' option at bottom of list (left-side)
 - click on 'Trust Center Settings'
 - click on 'Trusted Locations'
 - click on 'add new location', and add path where GWSDAT is located on your computer (i.e., see step 3 above)
 - click ok,
 - click ok
 - click ok
 - open GWSDAT from using excel toolbar Menu at top

For installation concerns please reach out to: [Feedback | GWSDAT](#)

ANIMATED INFORMATION SYSTEM (AIS) FOR GROUNDWATER ASSESSMENT AND REMEDIATION (one more Freebie) - LORAX

- The Animated Information System (AIS) for Groundwater Assessment and Remediation was developed to help **facilitate an understanding** of hydrogeology, contaminant migration in soil and groundwater, site assessment, and remediation.
- The AIS software provides a visualization approach that incorporates 3-D animation and state-of-the-art graphics into an interactive format.

For more info and download instructions go to:

[Animated Information System \(AIS\) For Groundwater Assessment And Remediation](#)

