

NPS Shallow Lakes Monitoring Trimble Geodatabase to SQL Server Database Tool

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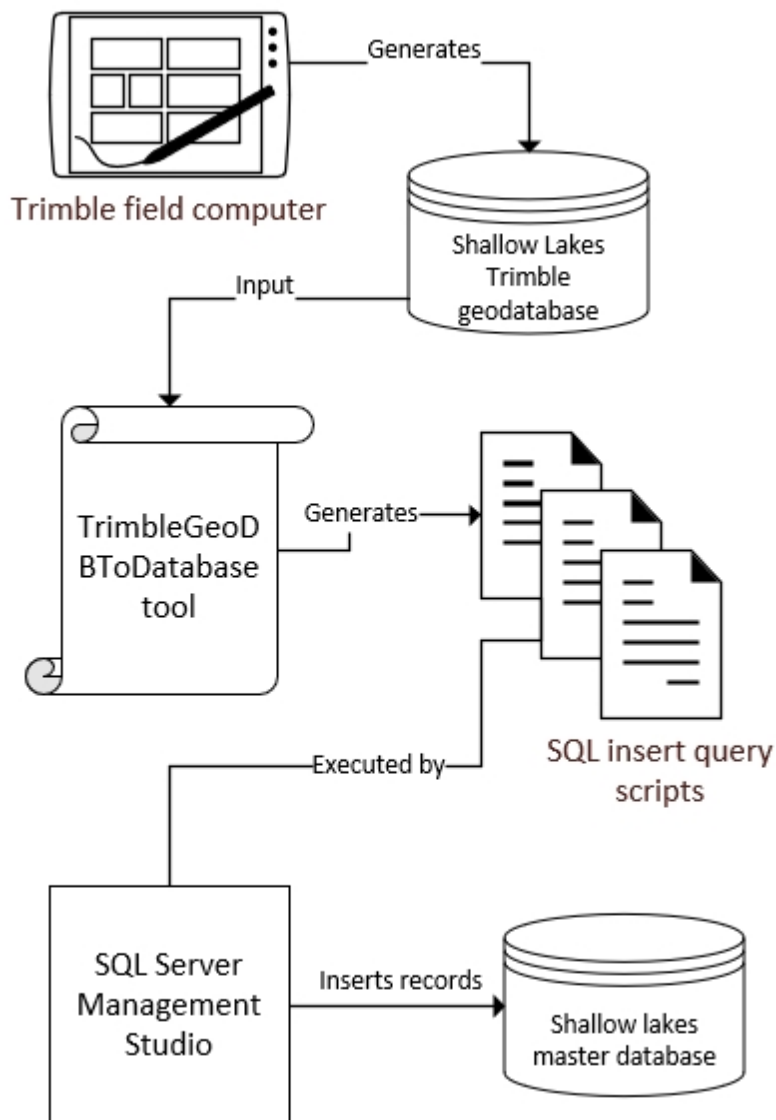
Overview

Overview

The TrimbleGeoDBToDatabase tool was written to transfer shallow lakes monitoring data that was collected in the field using a Trimble field computer to the shallow lakes monitoring master SQL Server Database

Project life cycle

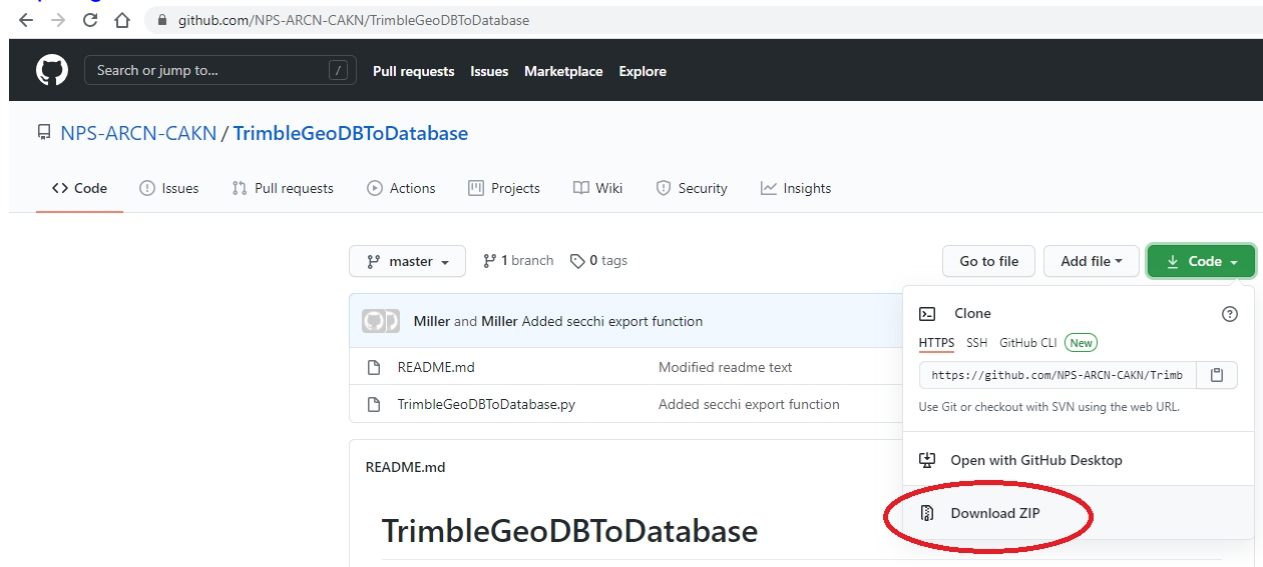
The TrimbleGeoDBToDatabase is one part of the shallow lakes monitoring data life cycle. Field data is collected on a Trimble field computer and stored in a geodatabase. The TrimbleGeoDBToDatabase interrogates the field geodatabase and converts certain spatial data layers into SQL insert query scripts. These query scripts may be executed using Microsoft SQL Server Management studio to move the data into the master Shallow Lakes monitoring database.



Obtaining the tool

Obtaining the tool

The TrimbleGeoDBToDatabase may be obtain by downloading the TrimbleGeoDBToDatabase.py script from <https://github.com/NPS-ARCN-CAKN/TrimbleGeoDBToDatabase>.



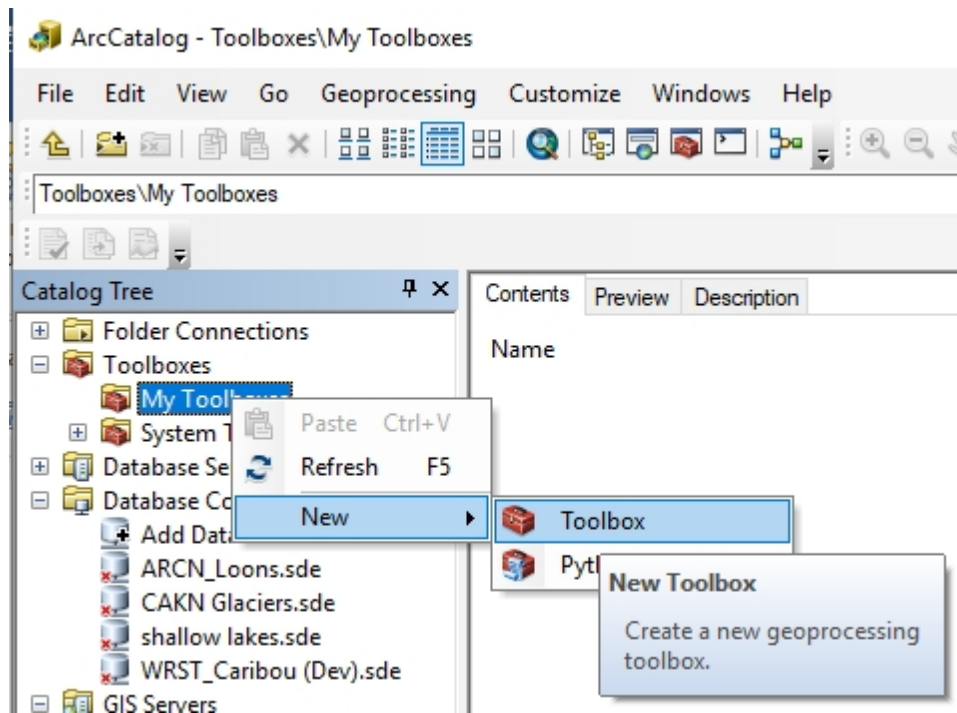
Unzip the files into a directory on your computer.
Proceed to [Configuring the tool](#).

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Configuring the tool

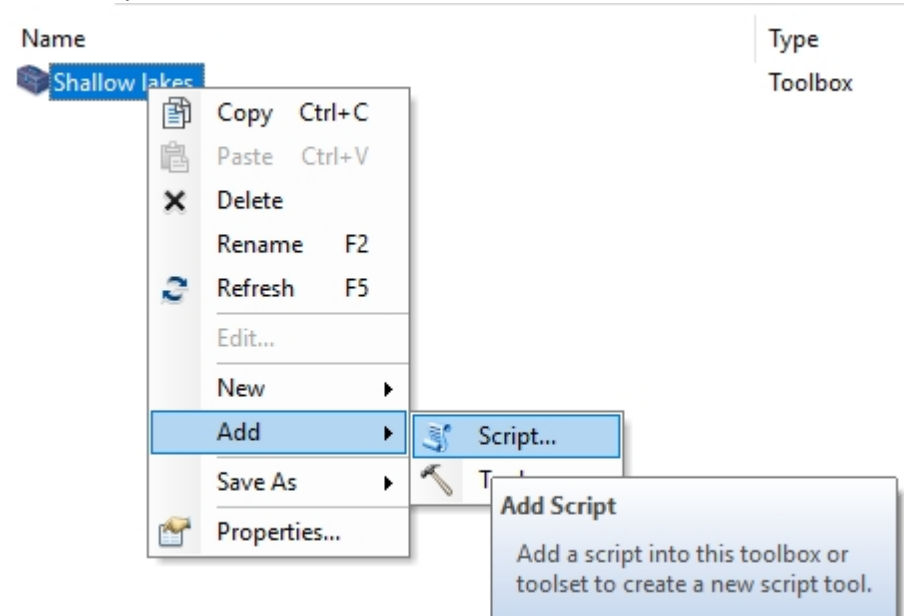
Configuring the tool

Create an ArcToolbox



Name it Shallow lakes

Add a script tool



Name the tool TrimbleGeoDBToDatabase or a name of your choosing. Give it a label and description if you like.

Click Next

Add Script ✕


Name:

Label:

Description:

Converts shallow lakes monitoring field data collected on a Trimble device to a series of SQL insert query scripts that can be executed to transfer the data to the shallow lakes monitoring SQL Server database.

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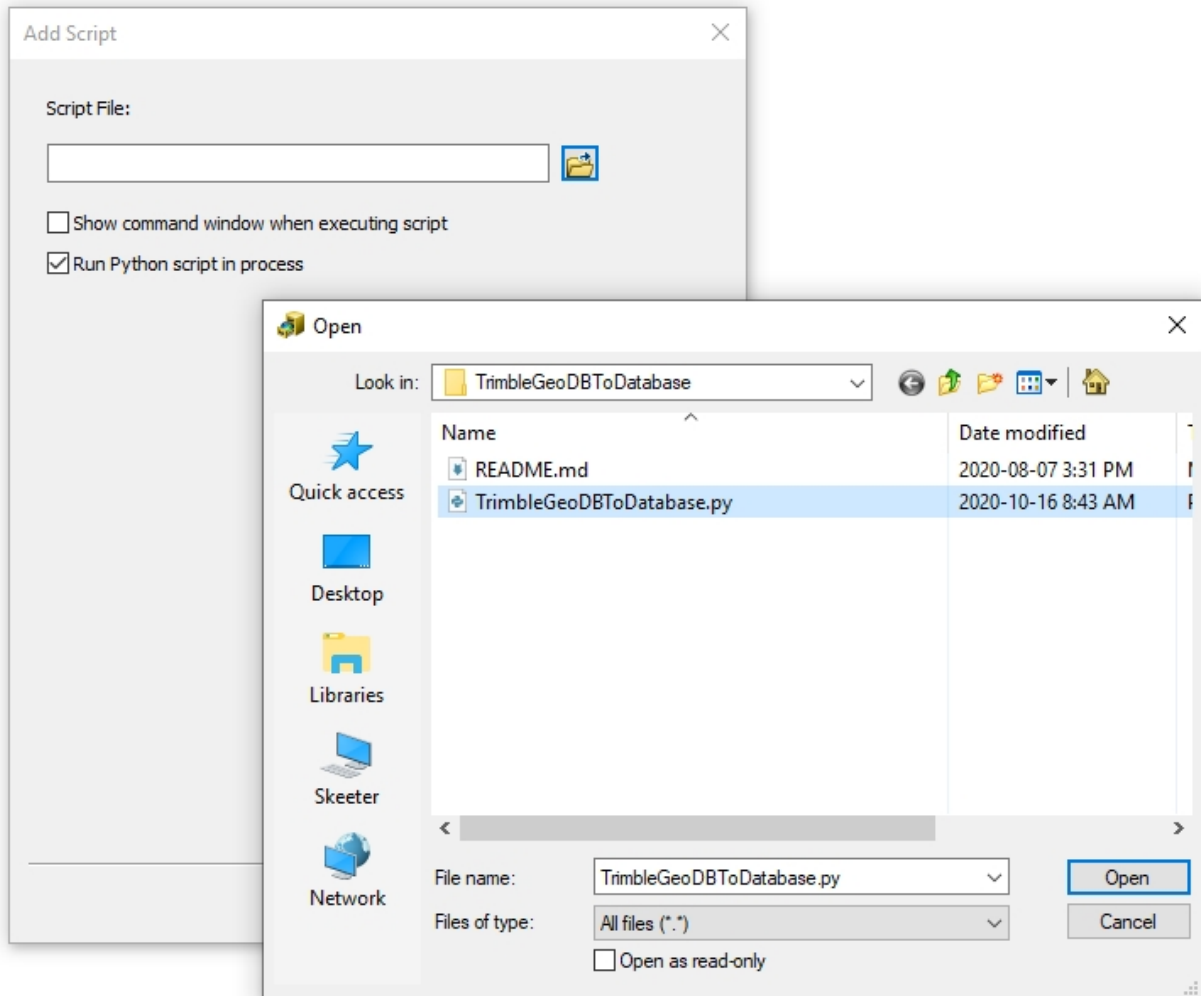
Stylesheet:
 

☐ Store relative path names (instead of absolute paths)

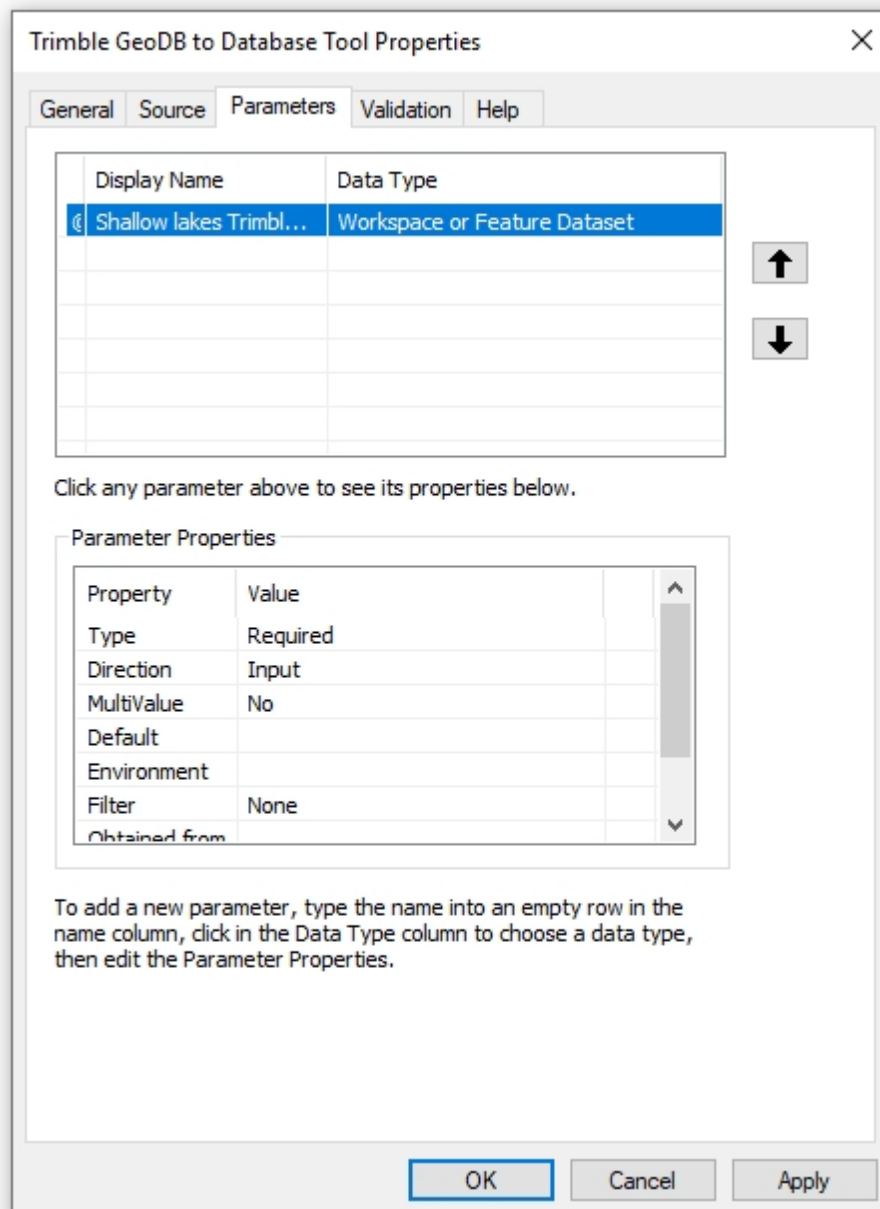
☒ Always run in foreground

< Back Next > Cancel

Add the TrimbleGeoDBToDatabase.py script to the tool.



The tool requires one parameter; the Trimble geodatabase to process. Add the parameter as a Workspace or Feature Dataset. Display Name is user defined.

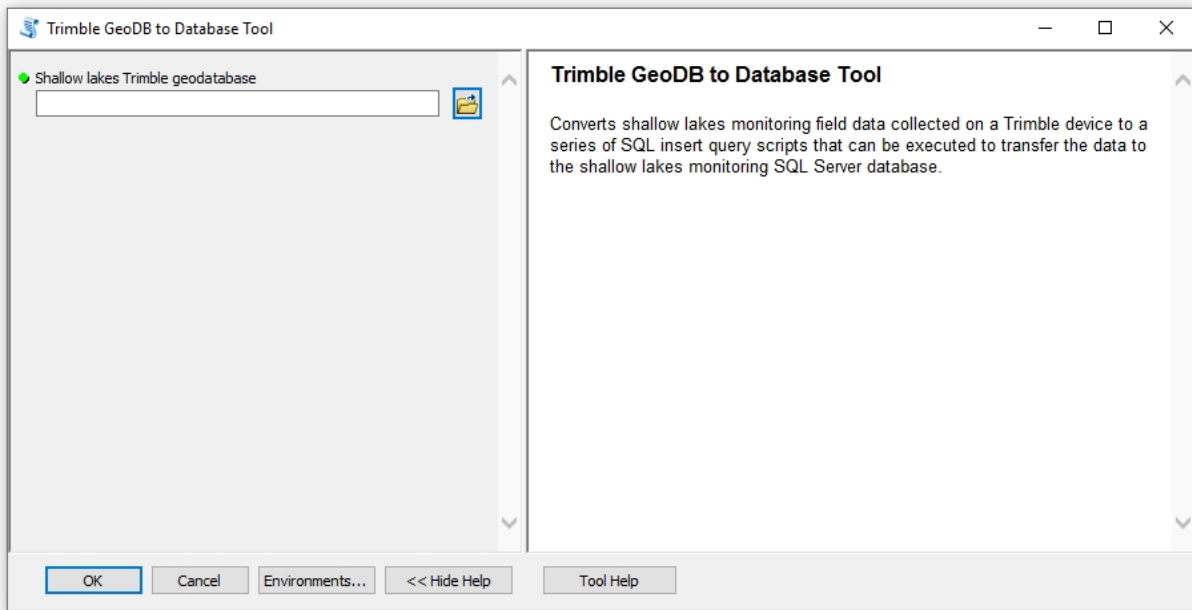


Click OK to finish configuring the tool
Proceed to [Running the tool](#).

Running the tool

Running to tool

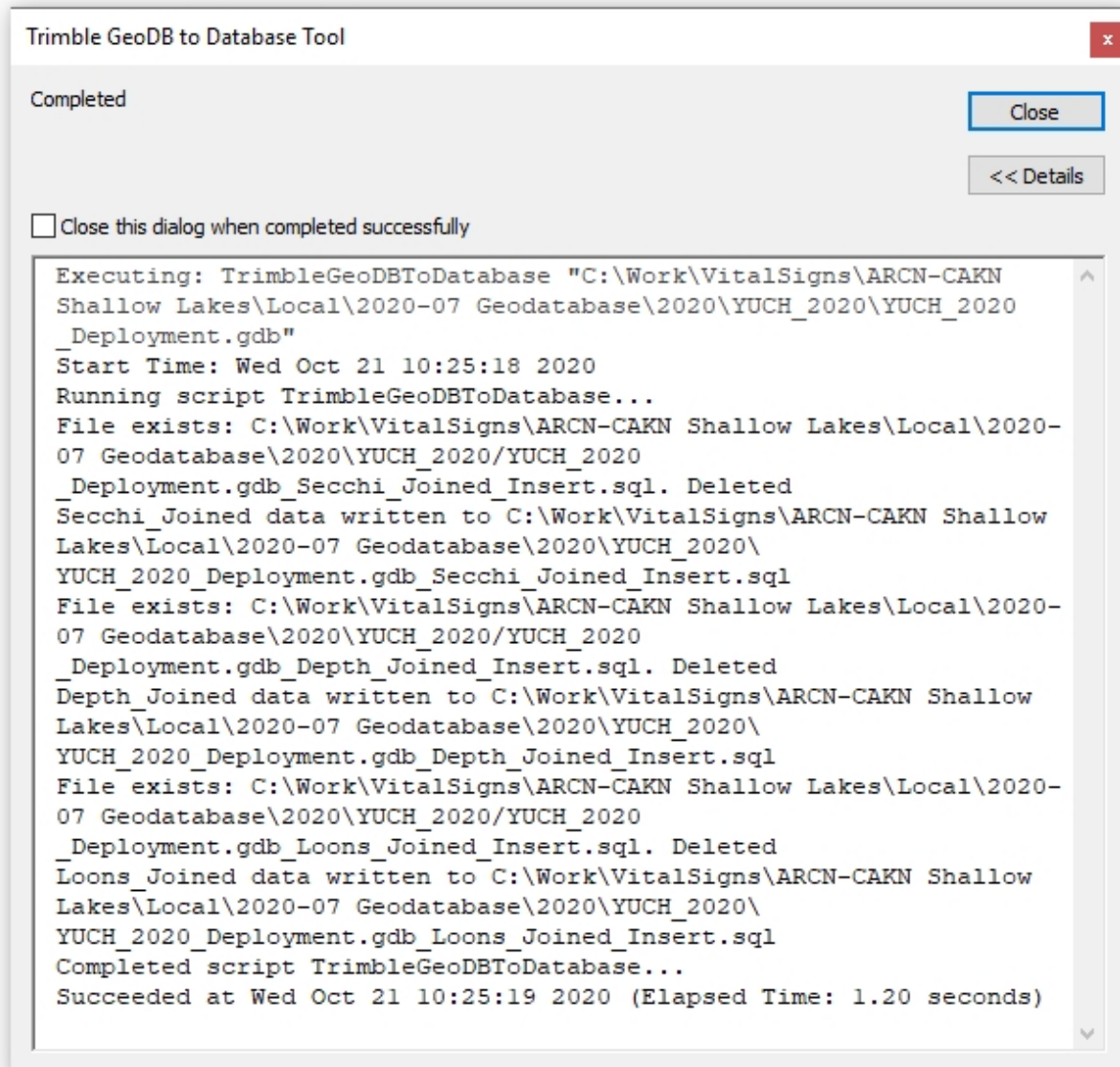
Double click the tool in ArcToolbox to run it.



Navigate to a shallow lakes field Trimble geodatabase to import.

Click OK.

The tool processes the data layers in the Trimble geodatabase and reports on successes and errors.



The tool creates SQL insert query scripts in the same directory as the Trimble geodatabase. The path to the scripts is in the output, above.

Name	Date modified	Typ
YUCH_2020_Deployment.gdb		
YUCH_2020_Deployment.gdb_Depth_Joined_Insert.sql	2020-10-21 10:25 AM	Mic
YUCH_2020_Deployment.gdb_Loons_Joined_Insert.sql	2020-10-21 10:25 AM	Mic
YUCH_2020_Deployment.gdb_Secchi_Joined_Insert.sql	2020-10-21 10:25 AM	Mic
YUCH_2020_Deployment.mxd	2020-07-09 5:02 PM	Arc
yuch_2020_spring_correct.txt	2020-07-09 4:30 PM	Tex

Proceed to [Executing the SQL insert query scripts](#).

Executing the SQL insert query scripts

Executing the SQL insert query scripts

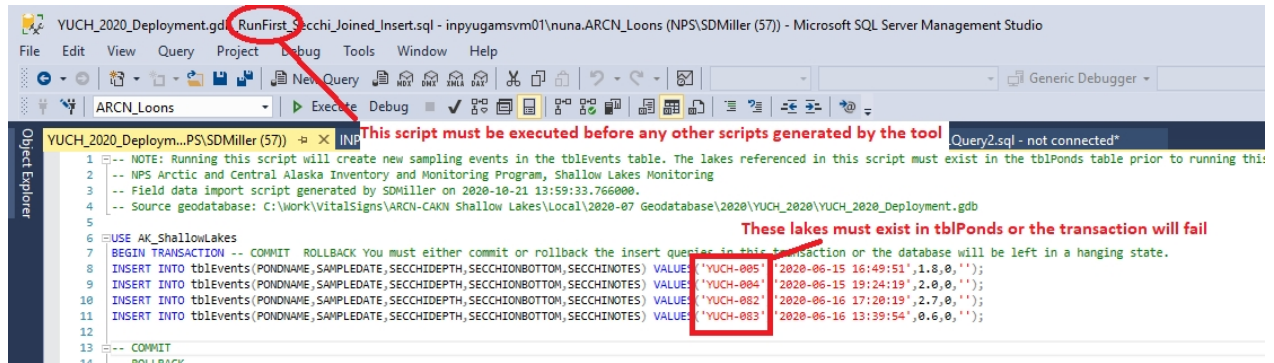
Open SQL Server Management Studio

Connect to the AK_ShallowLakes database on the NUNA SQL Server (contact the ARCN data manager for the connection details or to obtain privileges).

The order in which the scripts are run matters; open

YUCH_2020_Deployment.gdb_RunFirst_Secchi_Joined_Insert.sql first

Ensure the



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Trimble geodatabase specifications

Trimble geodatabase specifications

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