Command Reference: OpenHydroBase()

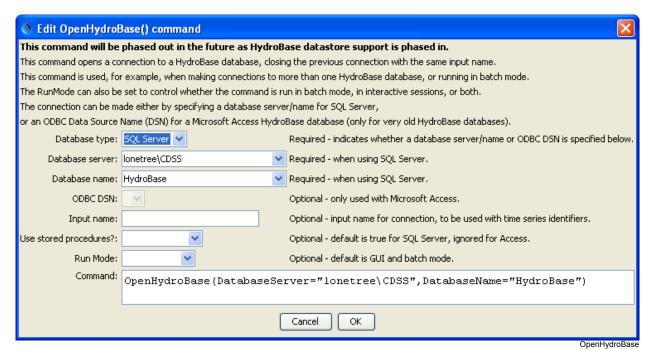
Open a connection to a HydroBase database

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This command will be phased out in the future. Instead, define HydroBase datastores (see the **HydroBase Datastore** appendix), where the datastore name is equivalent to the InputName parameter.

The OpenHydroBase () command opens a connection to a HydroBase database, allowing data to be read from the database (e.g., with ReadHydroBase () commands and time series identifiers that have ~HydroBase input types). This command is not typically used for interactive sessions but may be inserted to run in batch only mode to allow a specific database and commands files to be distributed. It may also be used in cases where time series are read from different HydroBase databases, perhaps to compare the contents of the databases – in this case two OpenHydroBase () commands would be used. When connecting to a SQL Server database, a connection will be tried for SQL Server (Express) and older MSDE databases. If both fail, a warning will be shown.

The following dialog is used to edit this command and illustrates the command syntax. The **Database type** is used to control settings for parameters and is not itself a parameter.



OpenHydroBase() Command Editor

The command syntax is as follows:

OpenHydroBase(Parameter=Value,...)

Command Parameters

Parameter	Description	Default
Database	Used with a SQL Server HydroBase. Specify the SQL	Required if a SQL
Server	Server database machine name. A list of choices will be	Server database is used.
	shown, corresponding to properties in the CDSS.cfg	

	configuration file. The generic value	
	DatabaseServer=local will automatically be	
	translated to the name of the local computer.	
Database	Used with a SQL Server HydroBase. The name of the	HydroBase
Name	database typically follows a pattern similar to:	
	HydroBase_CO_YYYYMMDD. A list of choices will be	
	shown, corresponding to properties in the CDSS.cfg	
	configuration file.	
OdbcDsn	The ODBC DSN to use for the connection, used only when	Required if a Microsoft
	working with a Microsoft Access database.	Access database is used.
InputName	The input name corresponding to the	Blank (no input name).
	~InputType~InputName information in time series	
	identifiers. This is used when more than one HydroBase	
	connection is used in the same commands file.	
UseStored	Used with SQL Server, indicating whether stored	True (used stored
Procedures	procedures are used. Stored procedures are the default and	procedures).
	should be used except when testing software.	
RunMode	Indicates when the command should be run, one of:	GUIAndBatch
	• BatchOnly – run the command only in batch mode.	
	• GUIOnly – run the command only in GUI mode.	
	GUIAndBatch – run the command in batch and GUI	
	mode.	

The following example command file illustrates how to connect to a SQL Server database running on a machine named "sopris":

```
StartLog(LogFile="Results/Example_OpenHydroBase_DatabaseName.TSTool.log")
OpenHydroBase(DatabaseServer="sopris", DatabaseName="HydroBase_CO_20060816")
ReadHydroBase(TSID="BOXHUDCO.DWR.Streamflow.Month", Alias="ts")
```

Example_OpenHydroBase_DatabaseName

The following example command file illustrates how to make two HydroBase database connections, in this case to test whether the stored procedure and SQL queries return the same results (the InputName parameter is used to tell TSTool which connection to use when reading data based on time series identifiers):

The following example commands file illustrates how to connect to a Microsoft Access database (although Microsoft Access databases are no longer supported):

```
OpenHydroBase (RunMode=GUIAndBatch,OdbcDsn="HydroBase DIV1 20030701")
```