## Command Reference: OpenHydroBase()

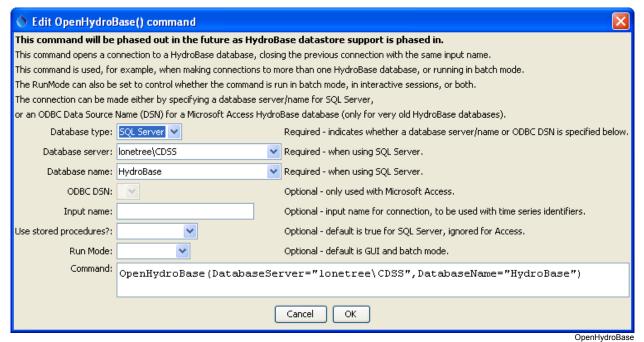
## Open a connection to a HydroBase database

/ersion 10.12.00, 2012-09-13

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
DatabaseServer	Used with a SQL Server HydroBase.	Required if a SQL Server
	Specify the SQL Server database	database is used, and accepts the
	machine name. A list of choices will	generic value
	be shown, corresponding to properties	DatabaseServer=local,
	in the <i>CDSS.cfg</i> configuration file.	which will automatically be
		translated to the name of the
		local computer.
DatabaseName	Used with a SQL Server HydroBase.	HydroBase
	The name of the 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	Required if a Microsoft Access
	connection, used only when working	database is used.
	with a Microsoft Access database.	
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.	
UseStoredProcedures	Used with SQL Server, indicating	True (used stored procedures).
	whether stored procedures are used.	
	Stored procedures are the default and	
	should be used except when testing	
	software.	
RunMode	Indicates when the command should be	GUIAndBatch
	run, one of:	
	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")
TS ts = ReadHydroBase(TSID="BOXHUDCO.DWR.Streamflow.Month")
```

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):

```
OpenHydroBase(DatabaseServer="hbserver", RunMode=GUIAndBatch,
    UseStoredProcedures=True, InputName="SP")
OpenHydroBase(DatabaseServer="hbserver", RunMode=GUIAndBatch,
    UseStoredProcedures=False, InputName="NoSP")
TS ts_sp =
ReadHydroBase(TSID="BOXHUDCO.DWR.Streamflow.Month~HydroBase~SP")
TS ts_nosp =
ReadHydroBase(TSID="BOXHUDCO.DWR.Streamflow.Month~HydroBase~NoSP")
```

Example\_OpenHydroBase\_TwoConnections.TSTool

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")
```

OpenHydroBase() Comman
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TSTool Documentation

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