Wikiprint Book

Title: Run Ecopath Console Example

Subject: Ecopath Developer Site - EweConsoleAppExample

Version: 9

Date: 2019-10-19 08:16:00

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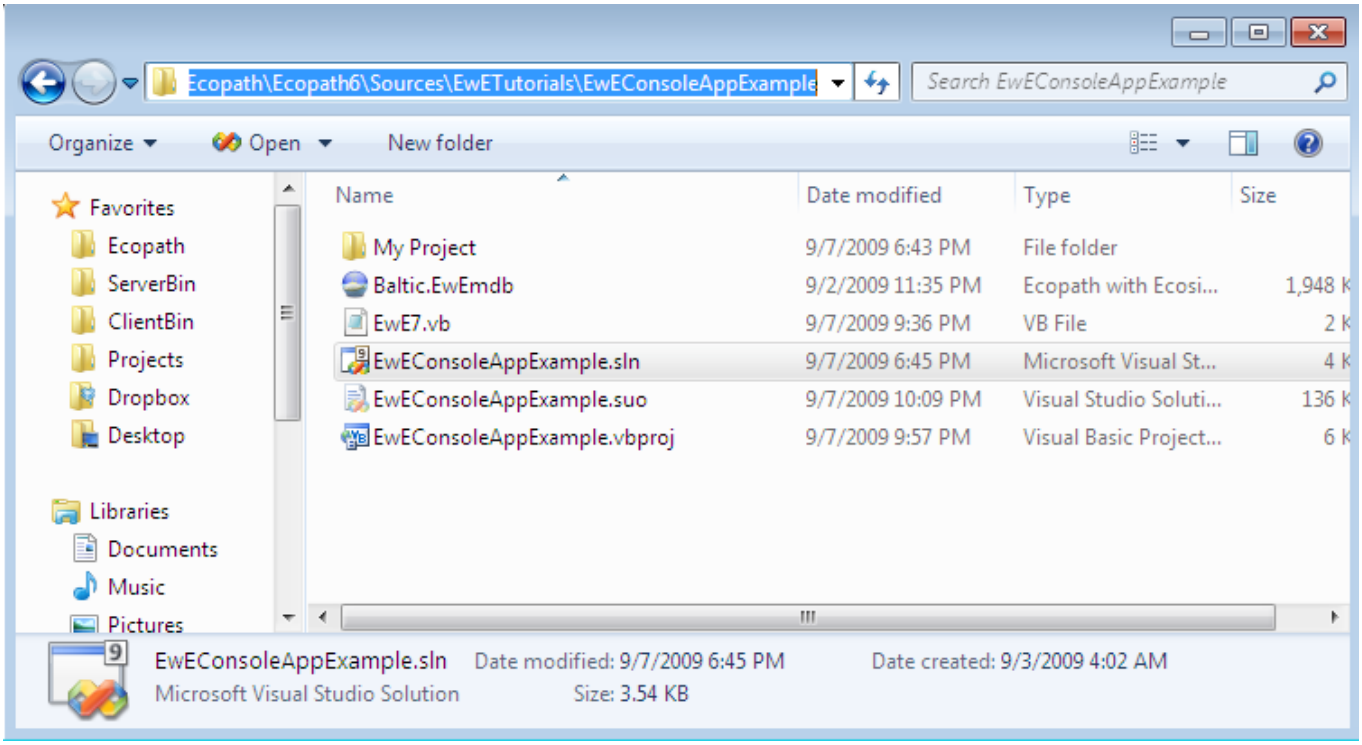
Run Ecopath Console Example

In this example a simple console application is examined that performs the very basic steps needed to work with the Ecopath code: loading a model, running Ecopath, and extracting a value from the Ecopath results. You will require access to the Ecopath source code.

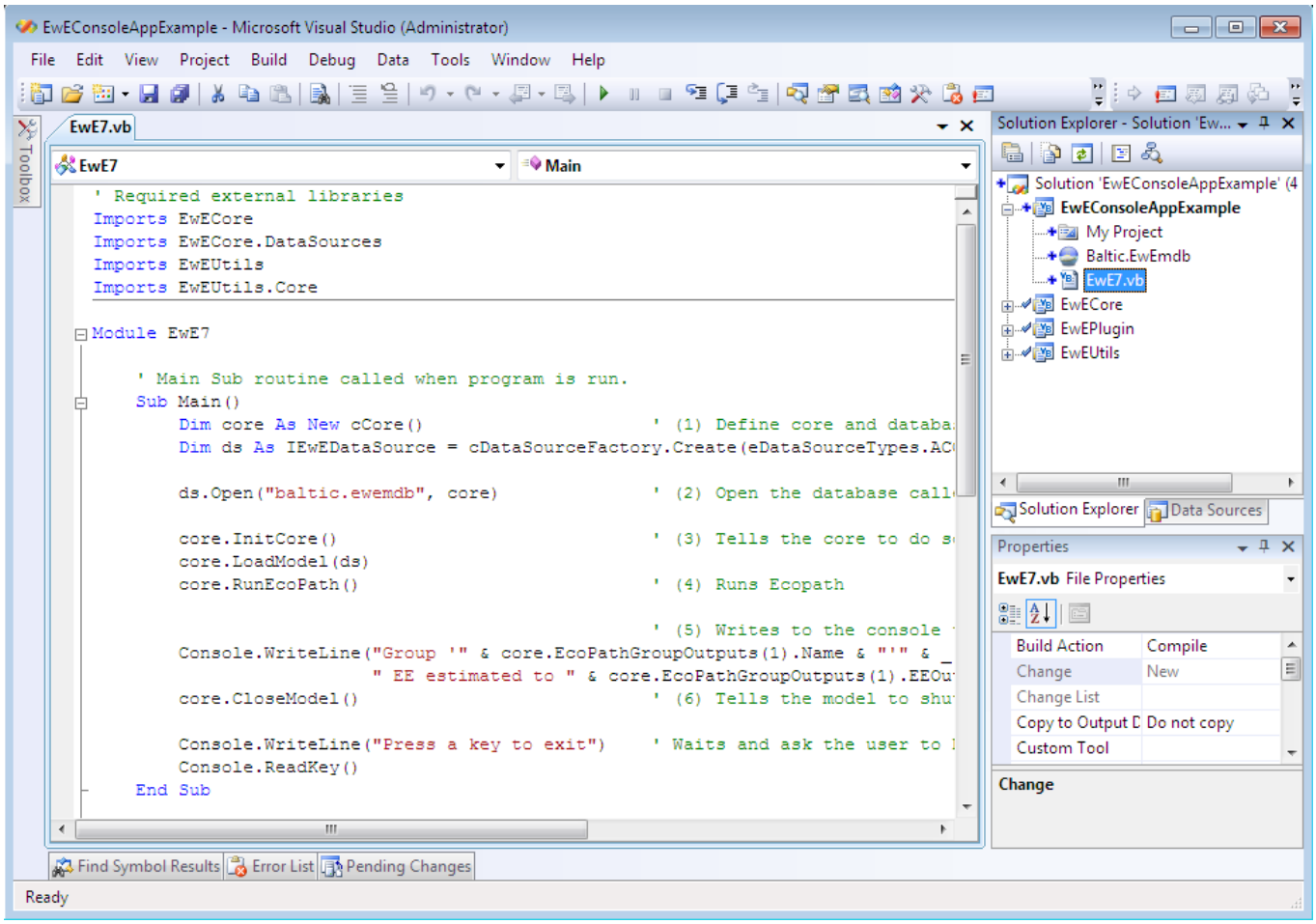
i. Open Microsoft Visual Studio or Microsoft Visual Studio Express and open the file *[EcopathLocation?]\Ecopath6\Sources\EwETutorials\EwEConsoleAppExample\EwEConsoleAppExample.sln*.
Do not worry if you do not see all the files in the image below such as the .suo file; Visual Studio will create all



Run the application by hitting *F5* or *Debug>Start Debugging* in the menu. One should see the following written in the console:

```
 Group 'Spring phytopla' EE estimated to 0.2006739
Press a key to exit
```

i. To see the code, open the solution explorer via Menu > View > Solution Explorer, and browse to the file EwE7.vb as seen below.


EwEConsoleAppExample - Microsoft Visual Studio (Administrator)
File Edit View Project Build Debug Data Tools Window Help
EwE7.vb
EwE7
Main
' Required external libraries
Imports EwECore
Imports EwECore.DataSources
Imports EwEUtils
Imports EwEUtils.Core
Module EwE7
' Main Sub routine called when program is run.
Sub Main()
Dim core As New cCore() ' (1) Define core and databa
Dim ds As IEwEDataSource = cDataSourceFactory.Create(eDataSourceTypes.AC
ds.Open("baltic.ewemdb", core) ' (2) Open the database call
core.InitCore() ' (3) Tells the core to do s
core.LoadModel(ds)
core.RunEcoPath() ' (4) Runs Ecopath
' (5) Writes to the console
Console.WriteLine("Group '" & core.EcoPathGroupOutputs(1).Name & "'" &
" EE estimated to " & core.EcoPathGroupOutputs(1).EEOu
core.CloseModel() ' (6) Tells the model to shu
Console.WriteLine("Press a key to exit") ' Waits and ask the user to
Console.ReadKey()
End Sub
Solution Explorer - Solution 'Ew...
Solution 'EwEConsoleAppExample' (4
EwEConsoleAppExample
My Project
Baltic.EwEmdb
EwE7.vb
EwECore
EwEPlugin
EwEUtils
Solution Explorer
Data Sources
Properties
EwE7.vb File Properties
Build Action Compile
Change New
Change List
Copy to Output D Do not copy
Custom Tool
Change
Find Symbol Results
Error List
Pending Changes
Ready