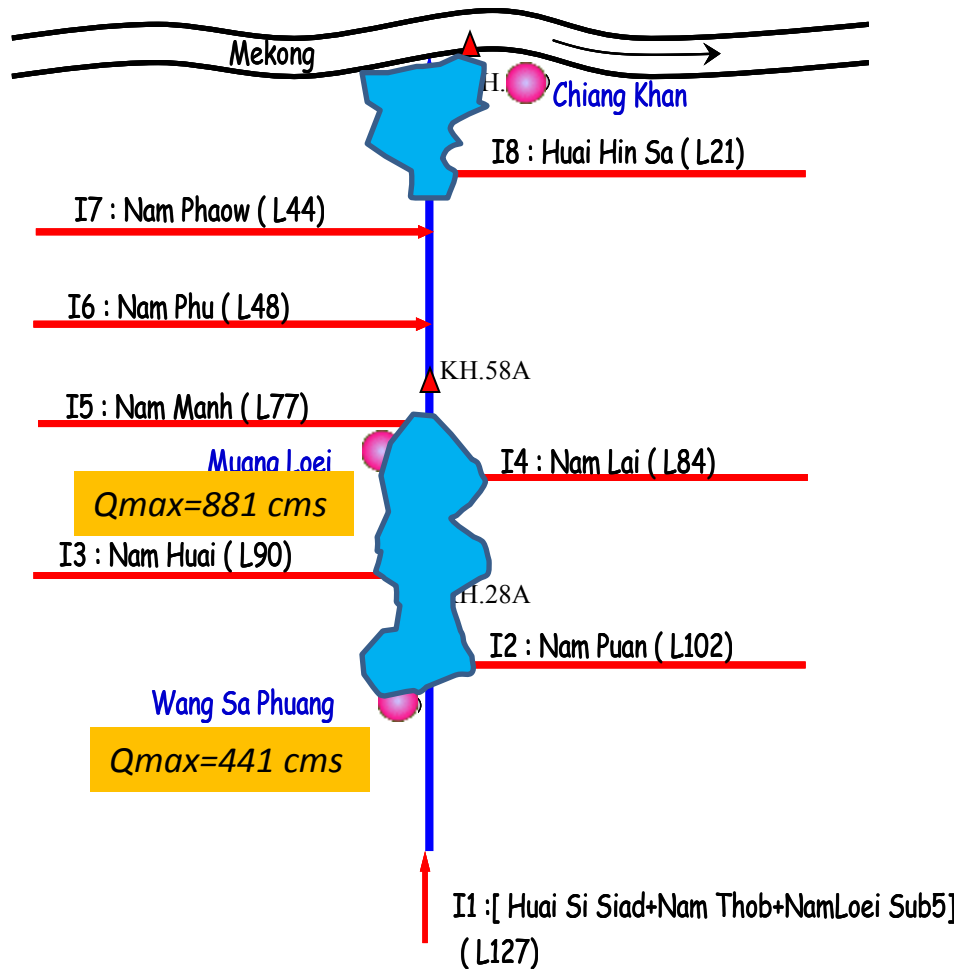




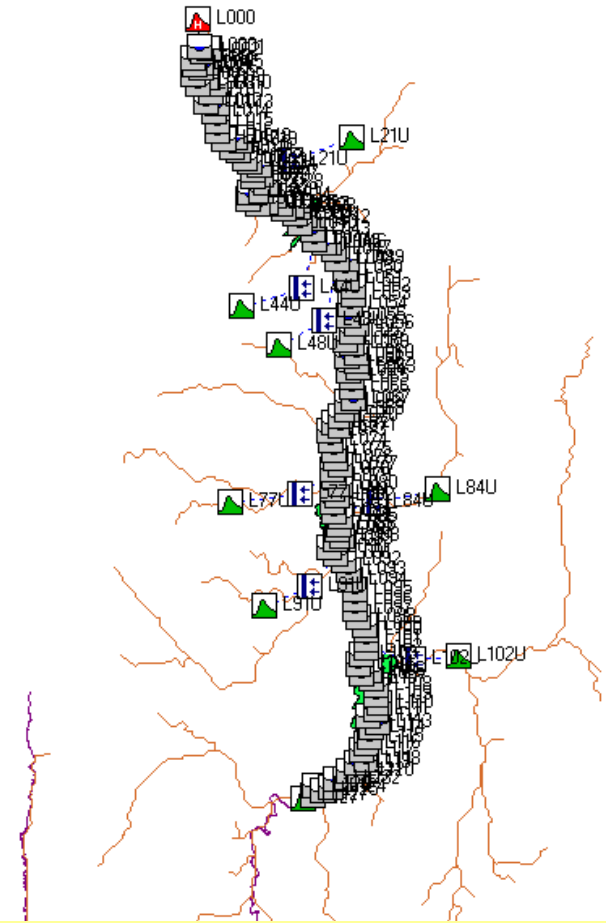
# Quick Overview – GUI.

Winai Wangpimool  
Suchada Siwthongkham

# ISIS Model set up



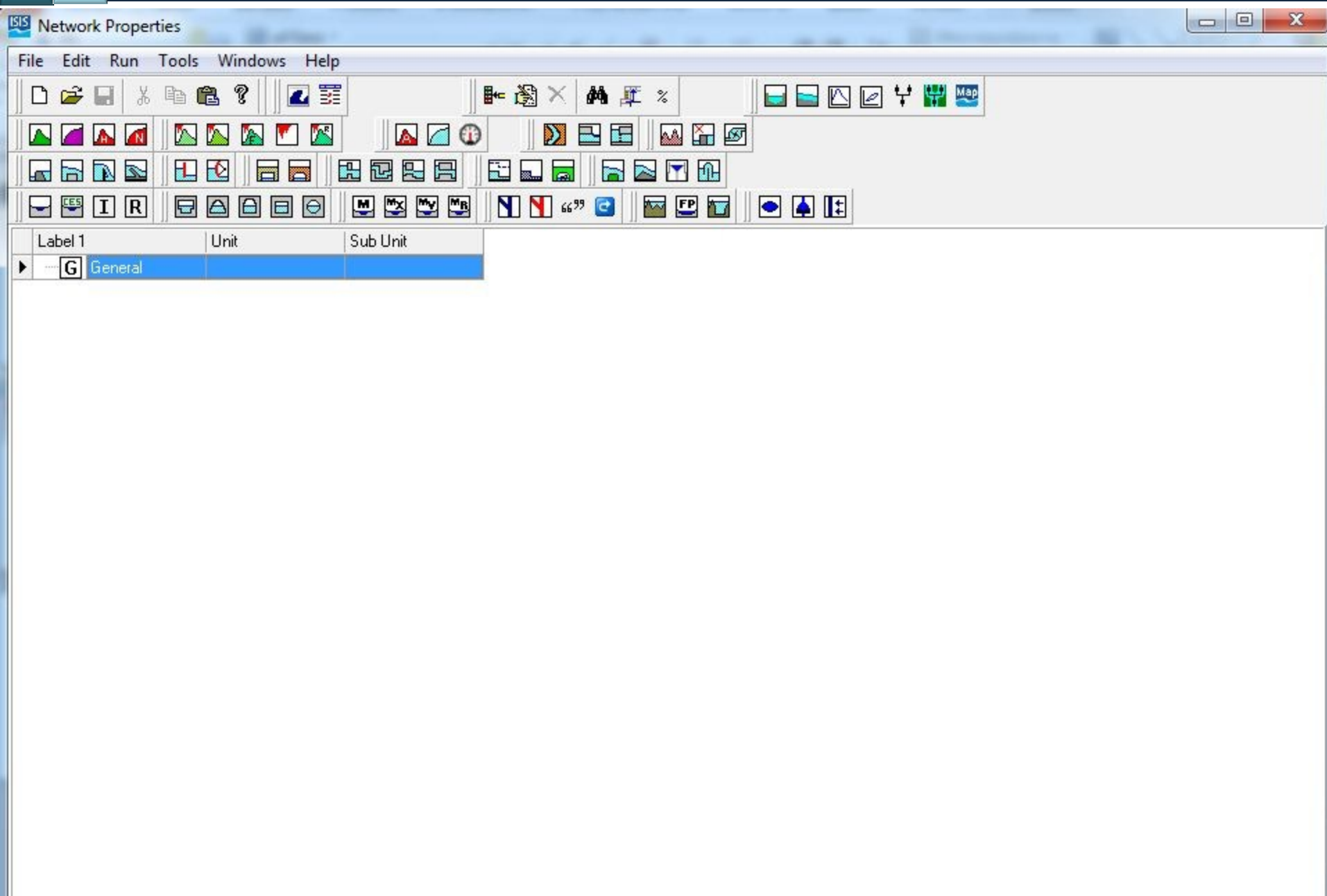
**Baseline - Existing condition**



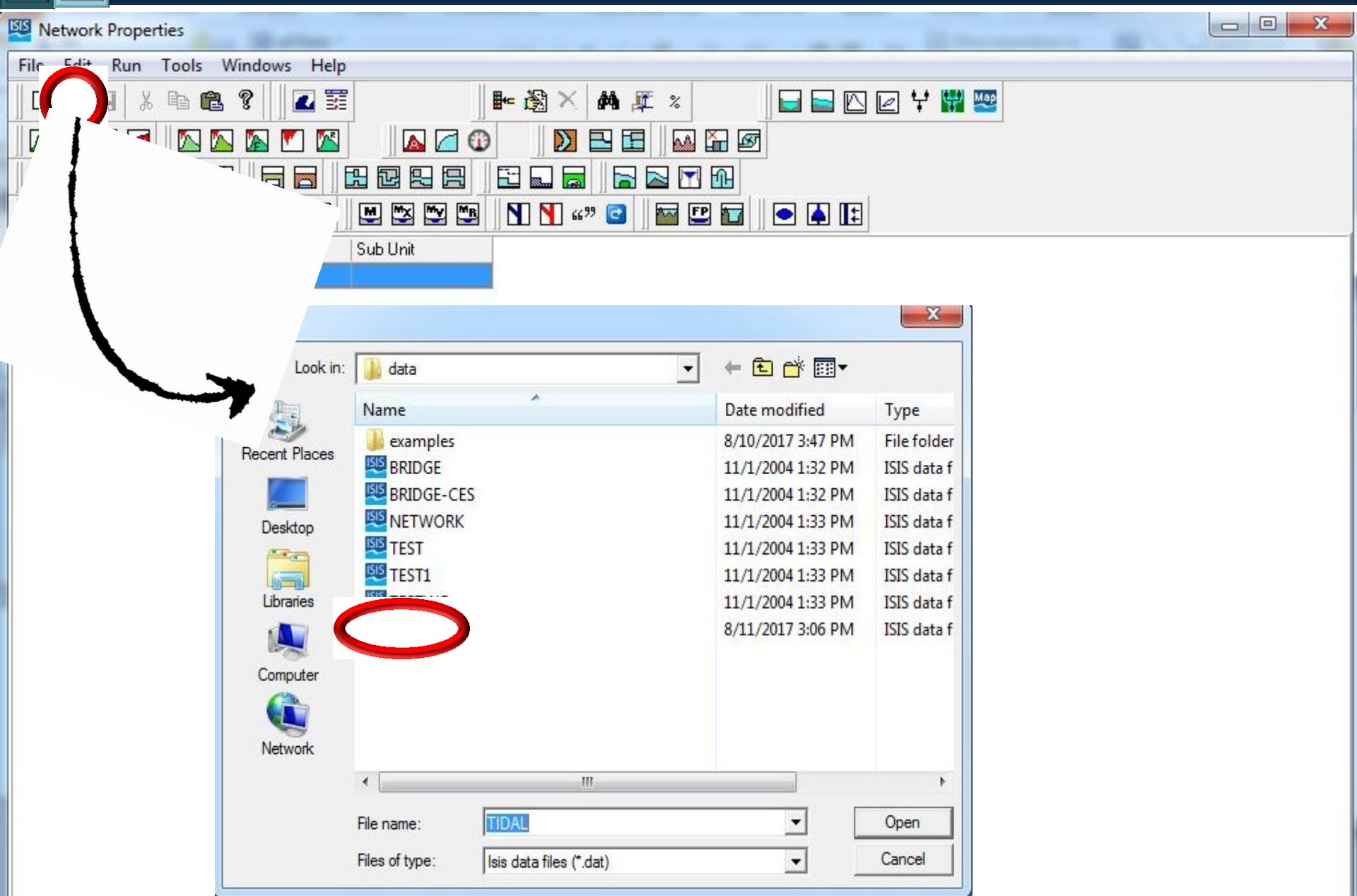
## Model Configuration

- ✓ 127 Cross Section
- ✓ 90 Km.
- ✓ 8 Lateral inflow from SWAT model

# ISIS user interface



# File > Open > TIDAL.DAT



# File > Open > TIDAL.DAT

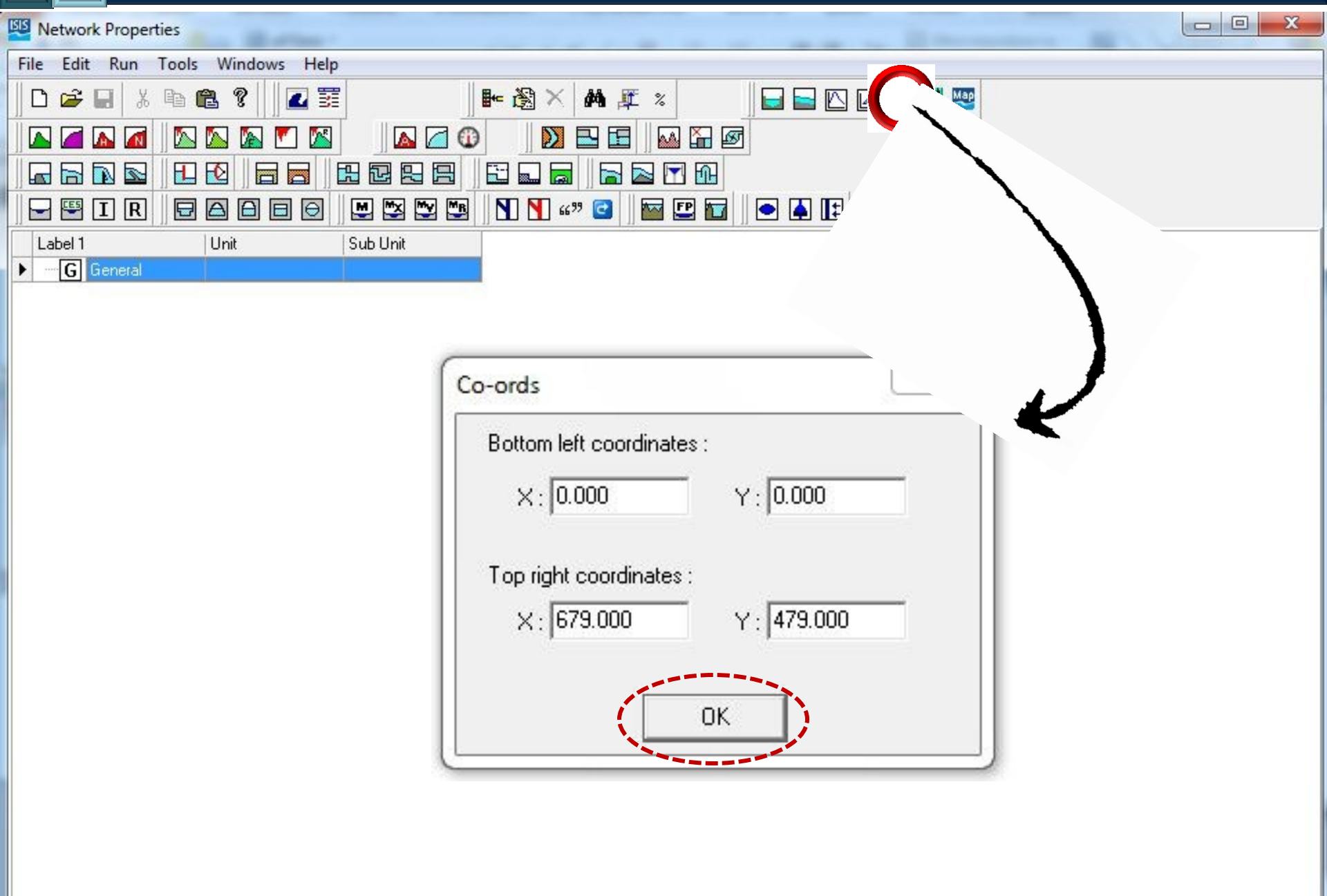
ISIS Network Properties - C:\isis\data\TIDAL.DAT

File Edit Run Tools Windows Help

The image shows the ISIS software interface. At the top, the title bar reads "ISIS Network Properties - C:\isis\data\TIDAL.DAT". Below the title bar is a menu bar with "File", "Edit", "Run", "Tools", "Windows", and "Help". A toolbar with various icons is located below the menu bar. The main window displays a table with three columns: "Label 1", "Unit", and "Sub Unit". The table contains a "General" section and a list of river sections numbered 2.1 through 2.22. Each row in the list has a small icon to its left, representing a river section. The "Sub Unit" column for all rows is "SECTION".

Label 1	Unit	Sub Unit
<b>G</b> General		
2.1	QTBDY	
2.1	RIVER	SECTION
2.2	RIVER	SECTION
2.3	RIVER	SECTION
2.3a	RIVER	SECTION
2.4	RIVER	SECTION
2.5	RIVER	SECTION
2.6	RIVER	SECTION
2.8	RIVER	SECTION
2.9	RIVER	SECTION
2.10	RIVER	SECTION
2.11	RIVER	SECTION
2.111	RIVER	SECTION
2.12	RIVER	SECTION
2.122	RIVER	SECTION
2.13	RIVER	SECTION
2.14	RIVER	SECTION
2.15	RIVER	SECTION
2.16	RIVER	SECTION
2.17	RIVER	SECTION
2.18	RIVER	SECTION
2.19	RIVER	SECTION
2.20	RIVER	SECTION
2.21	RIVER	SECTION
2.22	RIVER	SECTION

# Tools > Visualiser



Network Properties

File Edit Run Tools Windows Help



Label 1	Unit	Sub Unit
G	General	

Co-ords

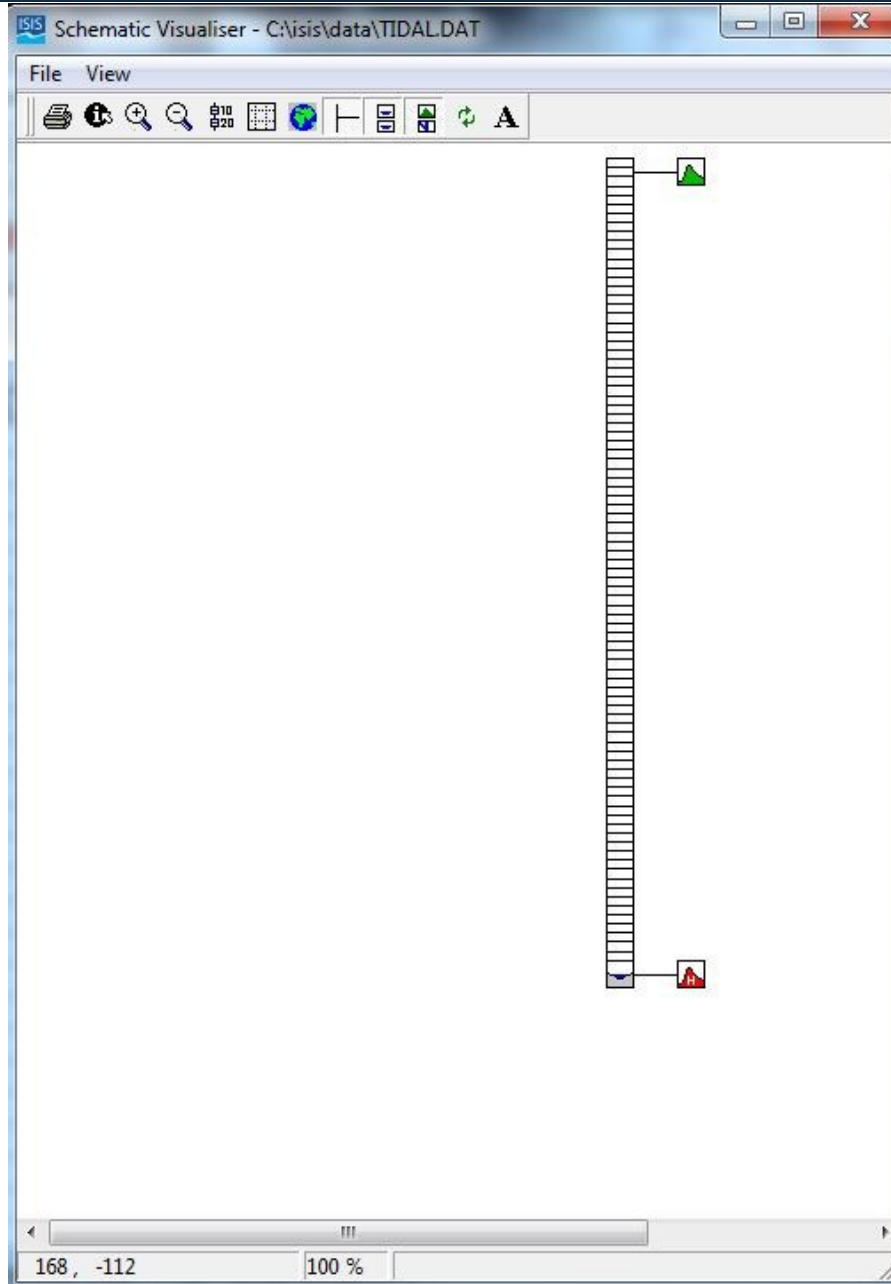
Bottom left coordinates :

X:  Y:

Top right coordinates :

X:  Y:

# Tools > Visualiser > OK



# Long Section

The image shows a software interface with a 'Long Section' dialog box and an error message. The 'Long Section' dialog box has the following fields:

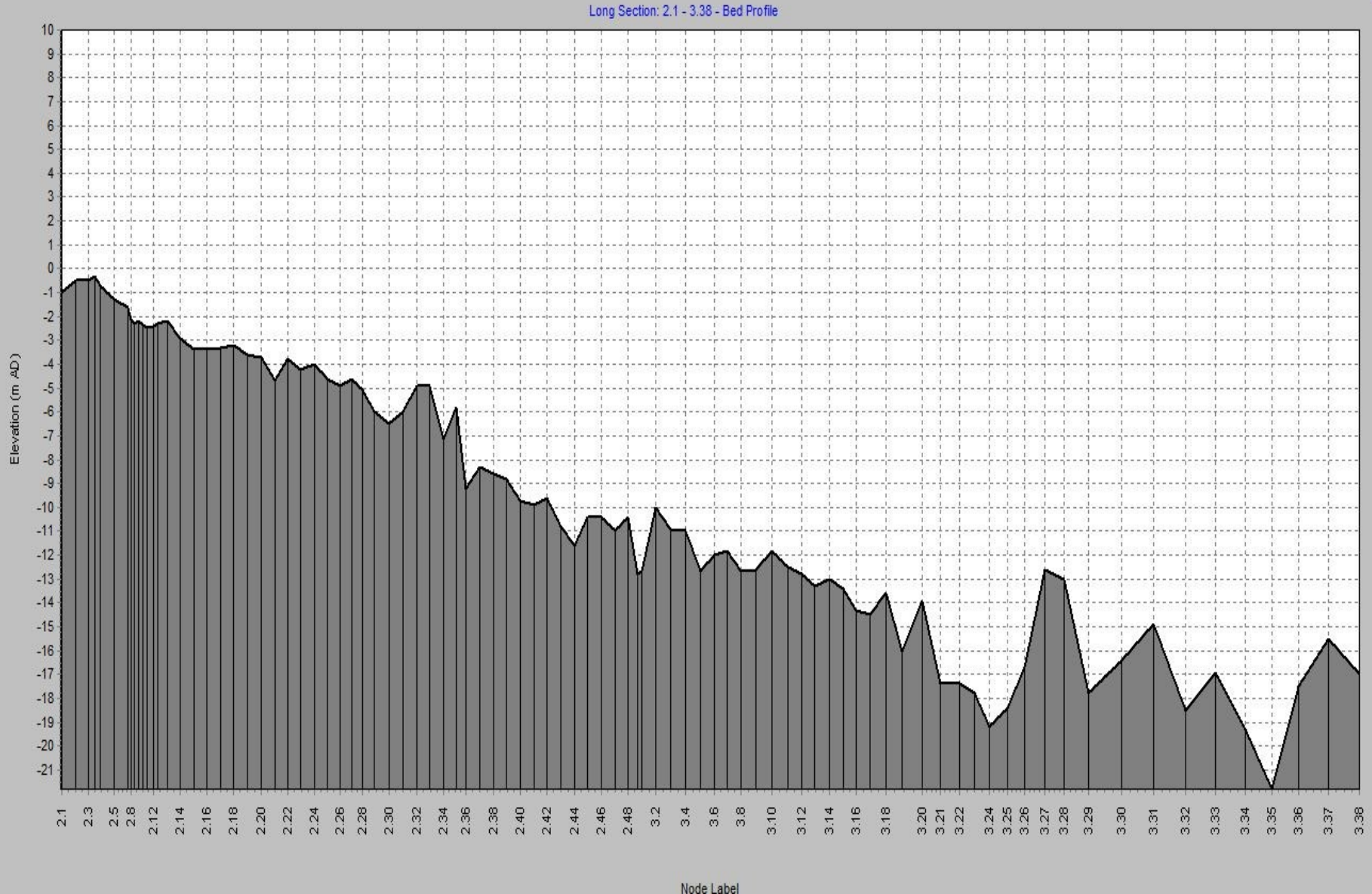
- Node Label Selection: 2.1 - 3.38
- Variable: Bed Profile
- Results File: <no results present>
- Plot Time Range:
  - Start Time (0): 0.0000
  - EndTime (0): 0.0000
  - Selected Time: 0.0000
- Chainage Offset (m): 0.00

The 'Plot...' button at the bottom of the dialog box is circled in red. An error message box is open, displaying the text: "No valid units for long section plots in this selection: selecting all units in model...". An arrow points from the 'Plot...' button to the error message, and another arrow points from the error message back to the 'Plot...' button.



# Long Section

Long Section: 2.1 - 3.38 - Bed Profile



# Main ISIS user interface > Plot

Network Properties - C:\isis\data\TIDAL.DAT

File Edit Run Tools Windows Help

The image shows the ISIS software interface. On the left is a data table with columns 'Label 1', 'Unit', and 'Sub Unit'. The table lists river sections from 3.13 to 3.33. On the right is a dialog box titled 'HTBDY : 3.38' with various configuration options. A red oval highlights the 'Plot...' button in the dialog box, and a red oval highlights the text 'Double click' with an arrow pointing to the 'Plot...' button.

Label 1	Unit	Sub Unit
3.13	RIVER	SECTION
3.14	RIVER	SECTION
3.15	RIVER	SECTION
3.16	RIVER	SECTION
3.17	RIVER	SECTION
3.18	RIVER	SECTION
3.19	RIVER	SECTION
3.20	RIVER	SECTION
3.21	RIVER	SECTION
3.22	RIVER	SECTION
3.23	RIVER	SECTION
3.24	RIVER	SECTION
3.25	RIVER	SECTION
3.26	RIVER	SECTION
3.27	RIVER	SECTION
3.28	RIVER	SECTION
3.29	RIVER	SECTION
3.30	RIVER	SECTION
3.31	RIVER	SECTION
3.32	RIVER	SECTION
3.33	RIVER	SECTION

HTBDY : 3.38

Node Label: 3.38 Edit...

Comment:

Data Manipulation:

Data Extending Method: REPEAT Data Interpolation: LINEAR

Time Data:

Units of Time Are: SECONDS Time Data Multiplier:

Stage (m AD)	Time (s)
-2.700	0.000
-2.613	1800.000
-2.201	3600.000
-1.474	5400.000
-0.764	7200.000
0.043	9000.000
0.870	10800.000
1.573	12600.000

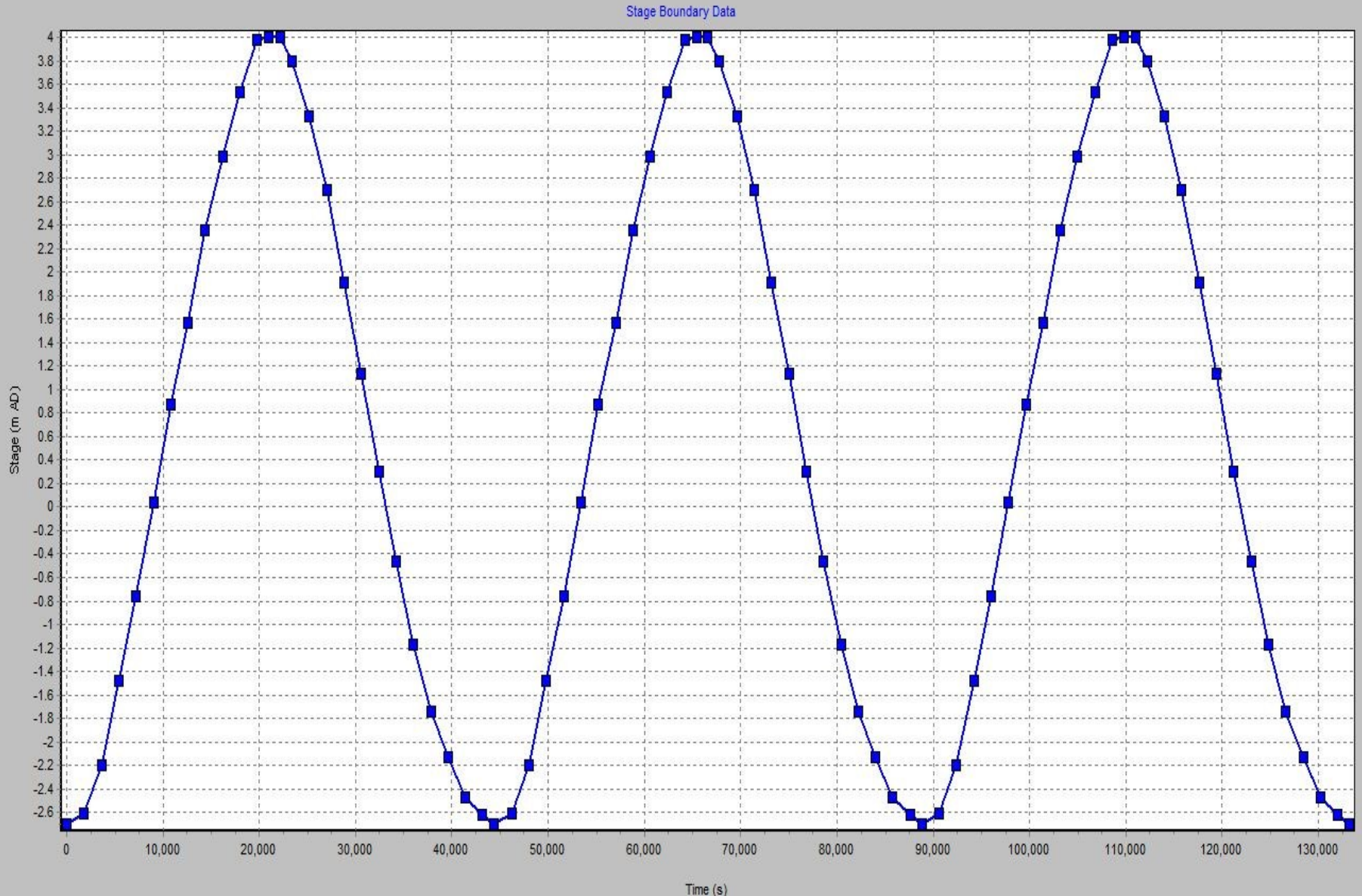
Plot...

Photo... Previous... Next... OK Cancel Help

Double click

# Main ISIS user interface > Plot

HTBDY : 3.38



# Cross Section

Network Properties - C:\isis\data\TIDALDAT

File Edit Run Tools Windows Help

2.3 RIVER SECTION  
2.3a RIVER SECTION  
2.4 RIVER SECTION  
2.5 RIVER SECTION  
2.6 RIVER SECTION  
2.8 RIVER SECTION

**Double click**

2.12 RIVER SECTION  
2.13 RIVER SECTION  
2.14 RIVER SECTION  
2.15 RIVER SECTION  
2.16 RIVER SECTION  
2.17 RIVER SECTION  
2.18 RIVER SECTION  
2.19 RIVER SECTION  
2.20 RIVER SECTION  
2.21 RIVER SECTION  
2.22 RIVER SECTION

ISIS RIVER SECTION: 2.12

Node Labels  
Section: 2.12 First Spill: Second Spill: Edit Labels...

Lateral Inflow Labels  
First: Second: Third: Fourth:

Comment:

x (m)	y (m AD)	Mannings n	Panel	RPL	Marker	Easting	Northing
-250.000	10.000	0.028	<input type="checkbox"/>	0.000	▼	0.00	0.00
-245.000	5.300	0.028	<input type="checkbox"/>	0.000	▼	0.00	0.00
-170.000	3.600	0.028	<input type="checkbox"/>	0.000	▼	0.00	0.00
-90.000	3.000	0.028	<input type="checkbox"/>	0.000	▼	0.00	0.00
-2.000	2.500	0.028	<input type="checkbox"/>	0.000	▼	0.00	0.00
0.000	1.100	0.028	<input type="checkbox"/>	0.000	▼	0.00	0.00
0.000	-0.100	0.028	<input type="checkbox"/>	0.000	▼	0.00	0.00
0.000	-0.700	0.028	<input type="checkbox"/>	0.000	▼	0.00	0.00
0.000	-0.900	0.028	<input type="checkbox"/>	0.000	▼	0.00	0.00
0.000	-1.300	0.028	<input type="checkbox"/>	0.000	▼	0.00	0.00

Distance to Next Section:  
330.000

Photo... Previous... Next... OK Cancel Help

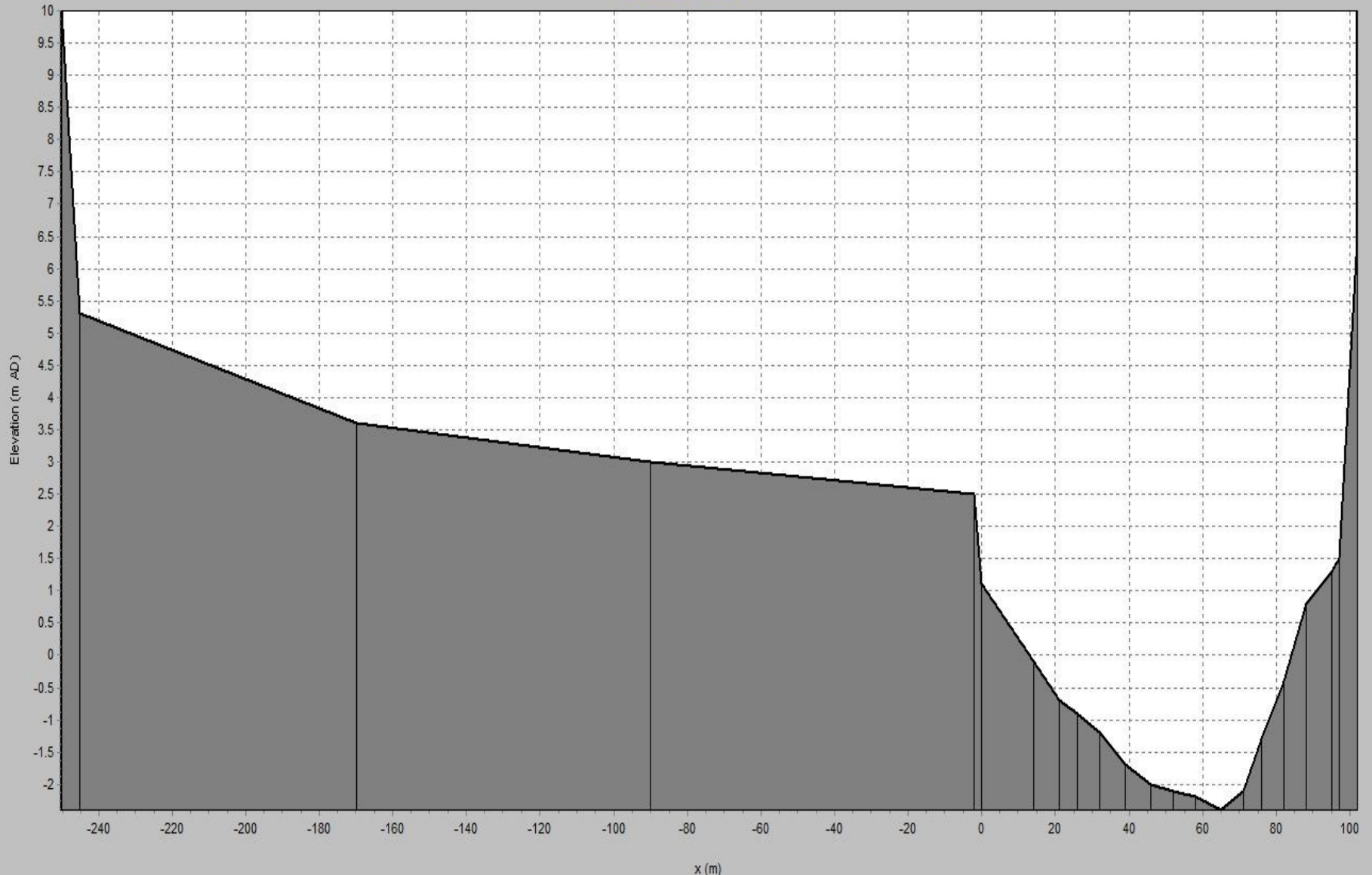
Plot...

# Cross Section

RIVER SECTION: 2.12



Cross-Section Data: 2.12



# Run > Flow Simulation

The screenshot displays the ISIS software interface. The main window is titled "Network Properties" and contains a menu bar with "File", "Edit", "Run", "Tools", "Windows", and "Help". Below the menu bar is a toolbar with various icons. A red circle highlights the "Run" button in the toolbar, with a white arrow pointing to the "Run" menu item in the main window's menu bar.

The "Run" menu is open, showing a sub-menu with "Files", "Times", "Options", "Parameters", "Advanced Parameters", "Diagnostics", "Snapshots", "CES", "Low Flow Options", and "Addition...". The "Options" sub-menu is selected, showing the following options:

- Run Type
  - Steady (Direct)
  - Boundary Mode
  - Steady (Timestepping)
  - Unsteady (Adaptive timestep)

Below the "Run Type" section, there are several input fields and buttons:

- "Use Time Zero" button
- "Start Time (hrs)" field with a dropdown menu set to "Absolute".
- "Warm Up Time (hr)" field with the value "0".

At the bottom of the dialog box, there are several buttons: "Run", "Open", "Save", "Save As...", and "Close". The "Run" button is circled in red.

# Run > Flow Simulation

ISIS Flow - C:\ISIS\DATA\TIDAL.dat

File Edit View State Window Help

Simulation Time = 36.00 hours (100%)

Timestep = 360.0 seconds

Iterations/Timestep

Model Convergence

Total Flows Max In= 49366.7 Max out= 44876.3

run

© 2008 Halcrow Group Ltd and others  
ISIS Flow  
Revision: 6.0.1.15 Date: 05/03/08

ISIS Free edition.  
Simulations limited to 200 nodes;  
Hydraulics/hydrology modules only.

No errors found in node labels

Extra initial timesteps not being carried out

C:\ISIS\DATA\TIDAL.DAT

Simulation completed  
View output file(s)?

View... View / Exit Cancel

Running

# Main ISIS user interface > Time Series

Network Properties - C:\isis\data\TIDALDAT

File Edit Run Tools Windows Help

Right click

Label 1	Unit	Sub Unit
2.19	RIVER	SECTION
2.20	RIVER	SECTION
2.28	RIVER	SECTION
2.29	RIVER	SECTION
2.30	RIVER	SECTION
2.31	RIVER	SECTION
2.32	RIVER	SECTION
2.33	RIVER	SECTION
2.34	RIVER	SECTION
2.35	RIVER	SECTION
2.36	RIVER	SECTION
2.37	RIVER	SECTION
2.38	RIVER	SECTION
2.39	RIVER	SECTION
2.40	RIVER	SECTION
2.41	RIVER	SECTION
2.42	RIVER	SECTION
2.43	RIVER	SECTION
2.44	RIVER	SECTION
2.45	RIVER	SECTION
2.46	RIVER	SECTION

File

- Cut Ctrl+X
- Copy Ctrl+C
- Paste Ctrl+V
- Insert Ins
- Delete Del
- Edit node labels Ctrl+N
- Properties Ctrl+P
- Copy to clipboard
- Long Section... Ctrl+E
- Cross Section... Ctrl+S
- XY Series... Ctrl+Q
- Convert

Time Series

Node Label Selection: 2.26 Results File Order

Variable: Stage Results File: C:\isis\data\TIDAL\ztl...

Plot Time Range: Start Time (0): 0.0000 EndTime (36): 36.0000

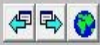
Selected Time: 0.0000

Plot... Cancel Help

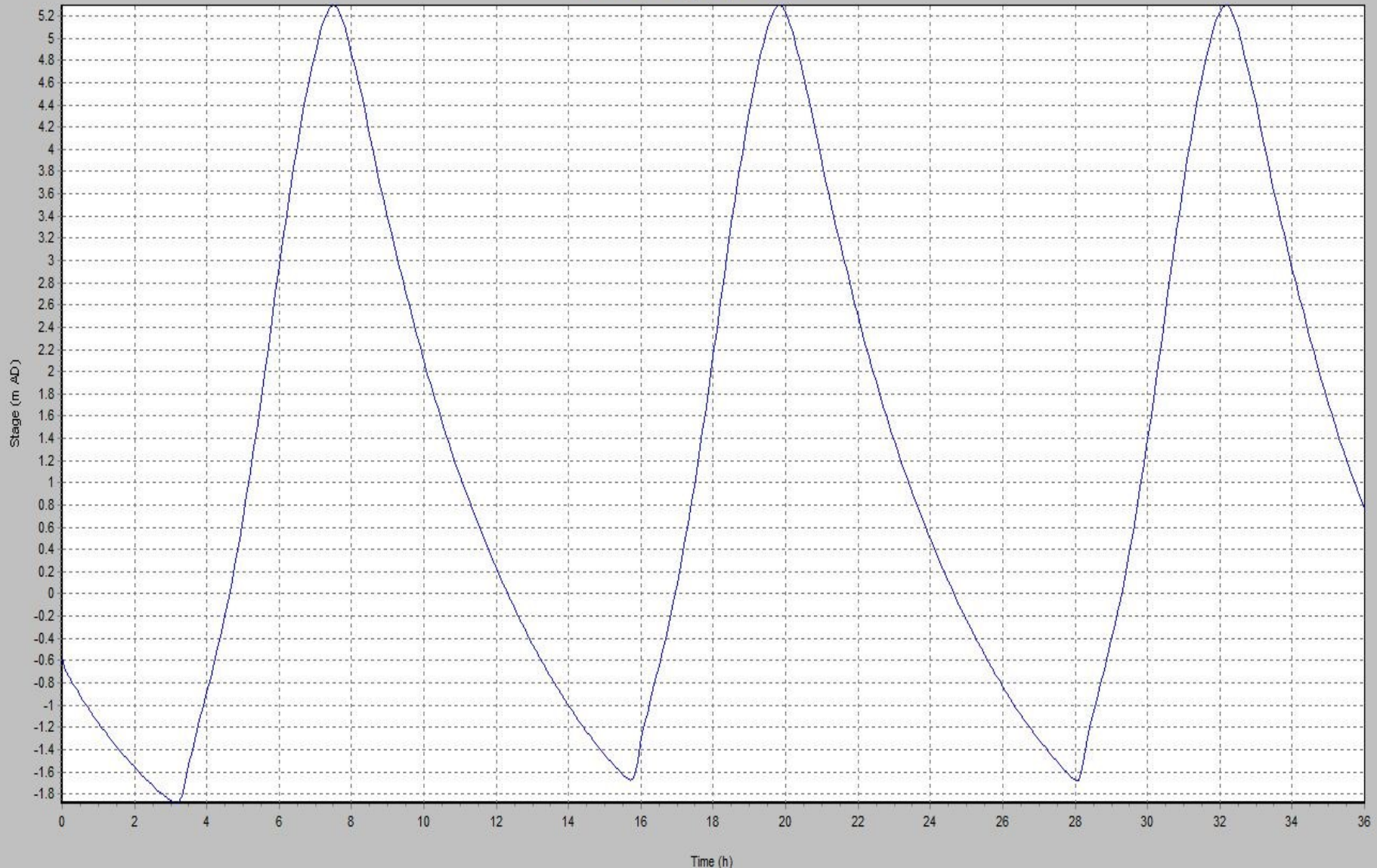


# Main ISIS user interface > Time Series

Time Series: 2.26 - Stage



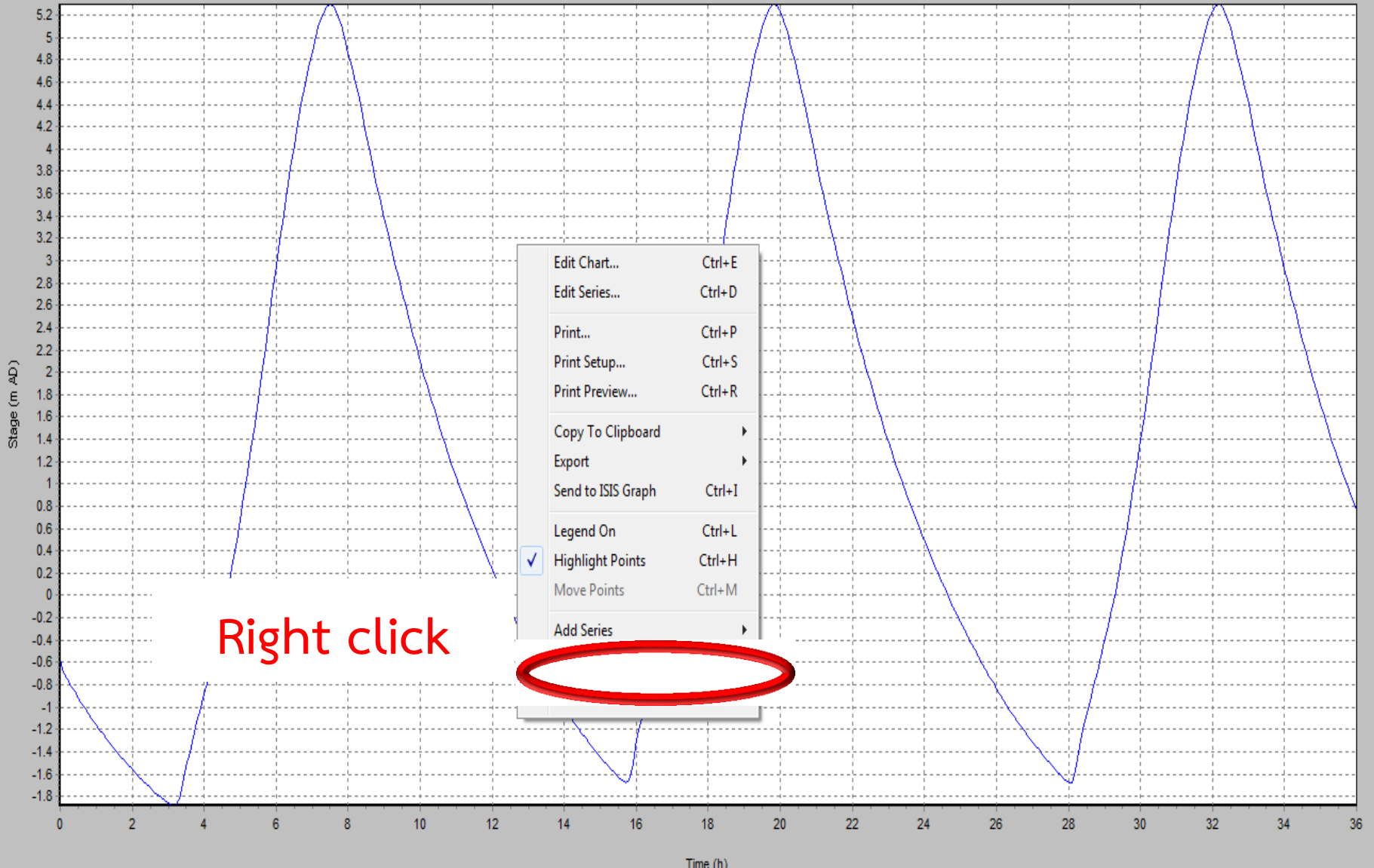
Time Series: 2.26 - Stage: 2.26; 0 - 36.000 h.



# Time Series > Animation > Play

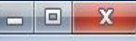
Time Series: 2.26 - Stage

Time Series: 2.26 - Stage: 2.26; 0 - 36.000 h.



# Time Series > Animation > Play

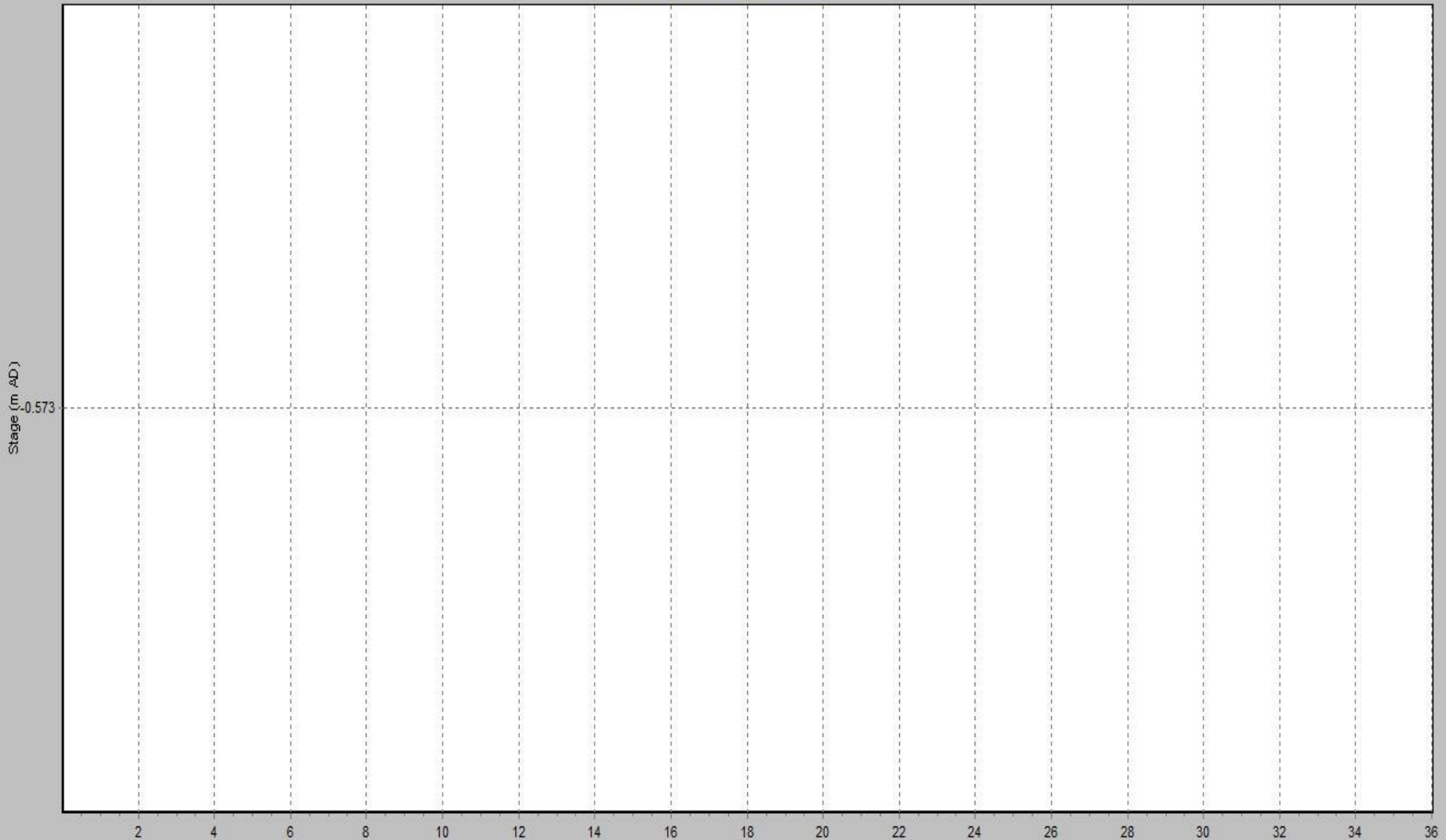
Time Series: 2.26 - Stage



■ ◀ ▶ ● Model Time : 0.000 h

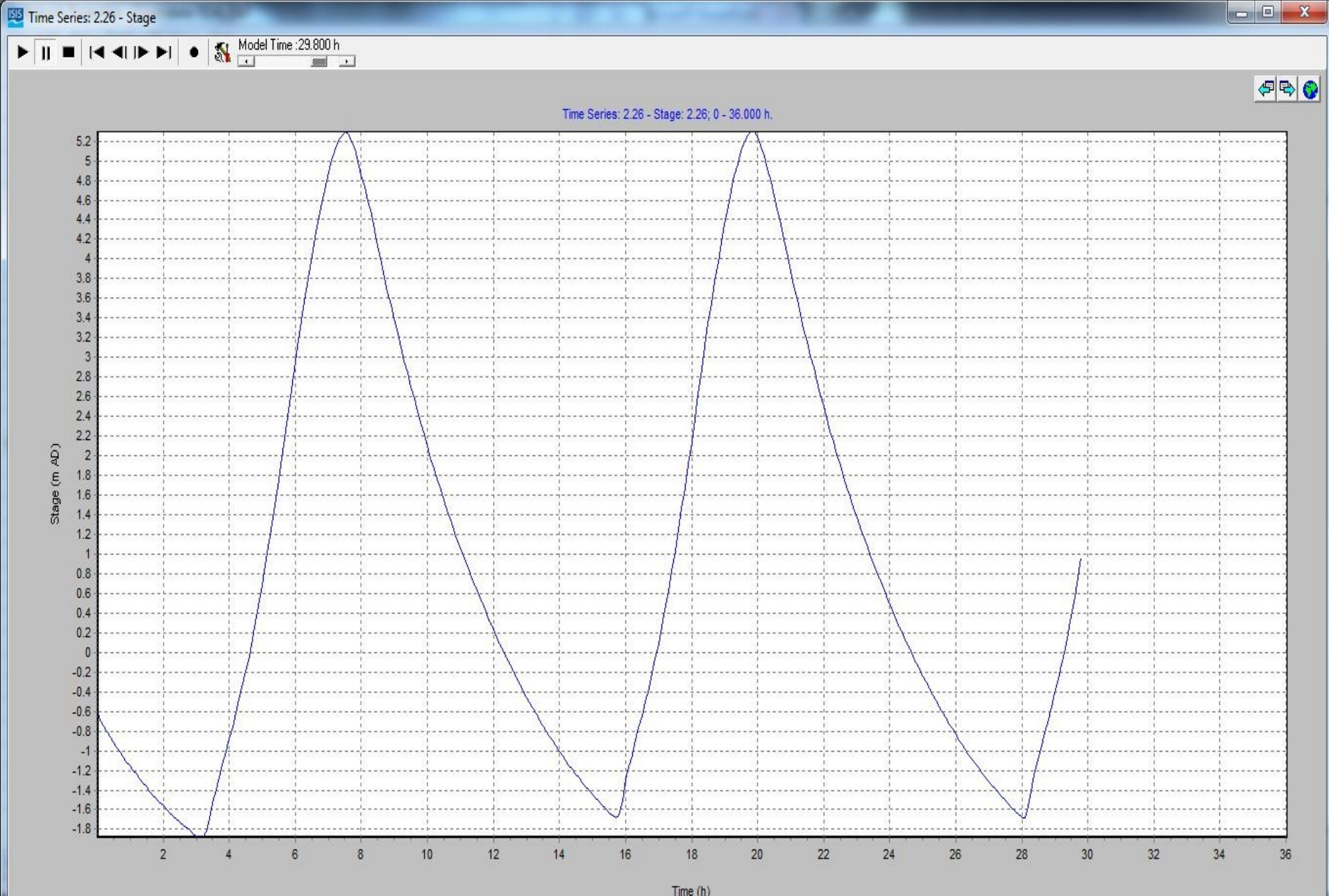


Time Series: 2.26 - Stage: 2.26; 0 - 36.000 h.



Time (h)

# Time Series > Animation > Play





# **Time for Demonstration & Practice**