HITACHI
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DioVISTA Hands-on Seminar

Creation of exercise risk map

株式会社 日立パワーソリューションズ

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Today's Goal: Risk Map

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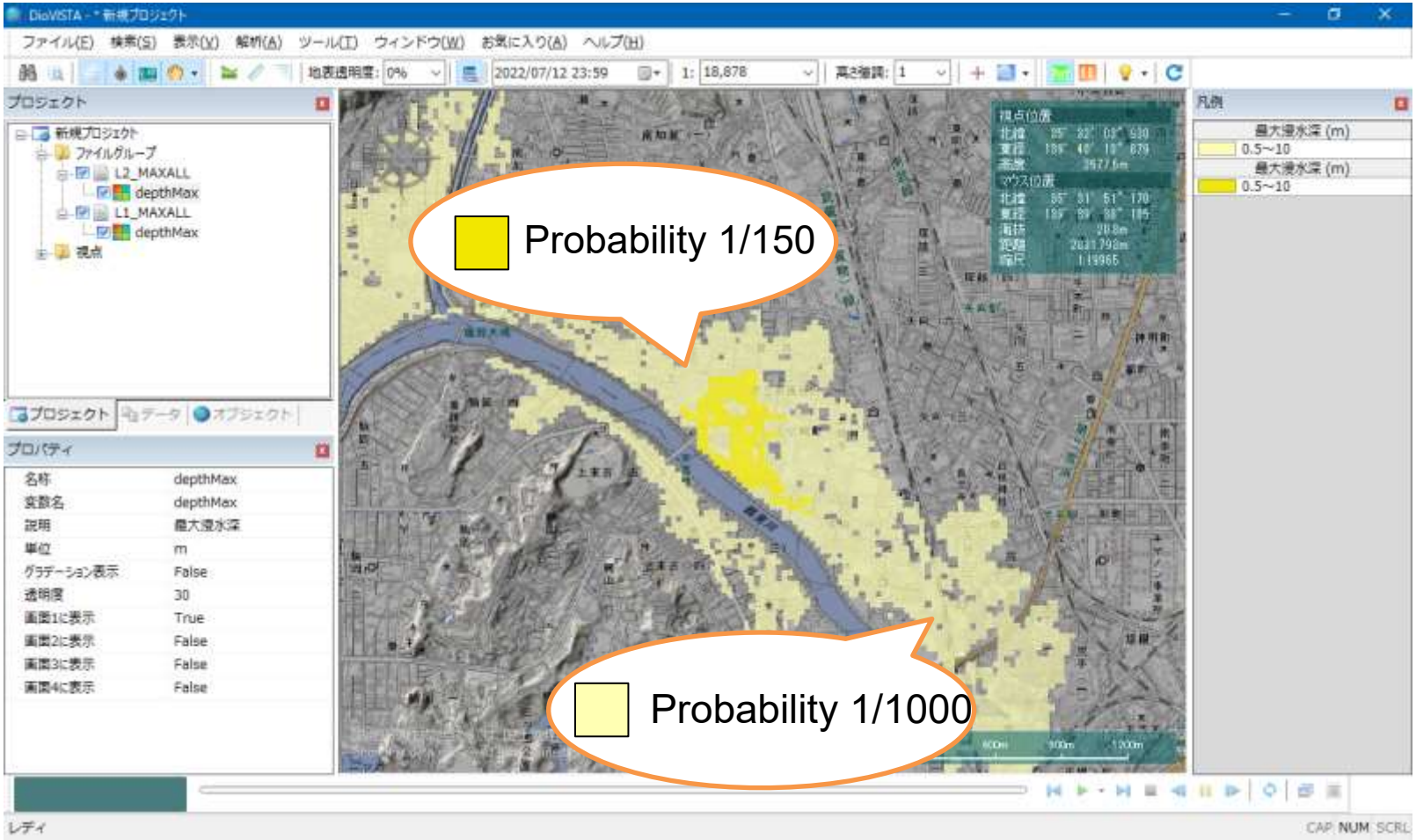
Flood risk map (inundation depth of 50 cm or more) Maximum inundation depths with different occurrence probabilities are superimposed



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practice

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1. Launch and map operation
2. Getting used to the operation: Recreating the 2004 Fukui flood
3. Practice: Analysis of the Tsurumi River

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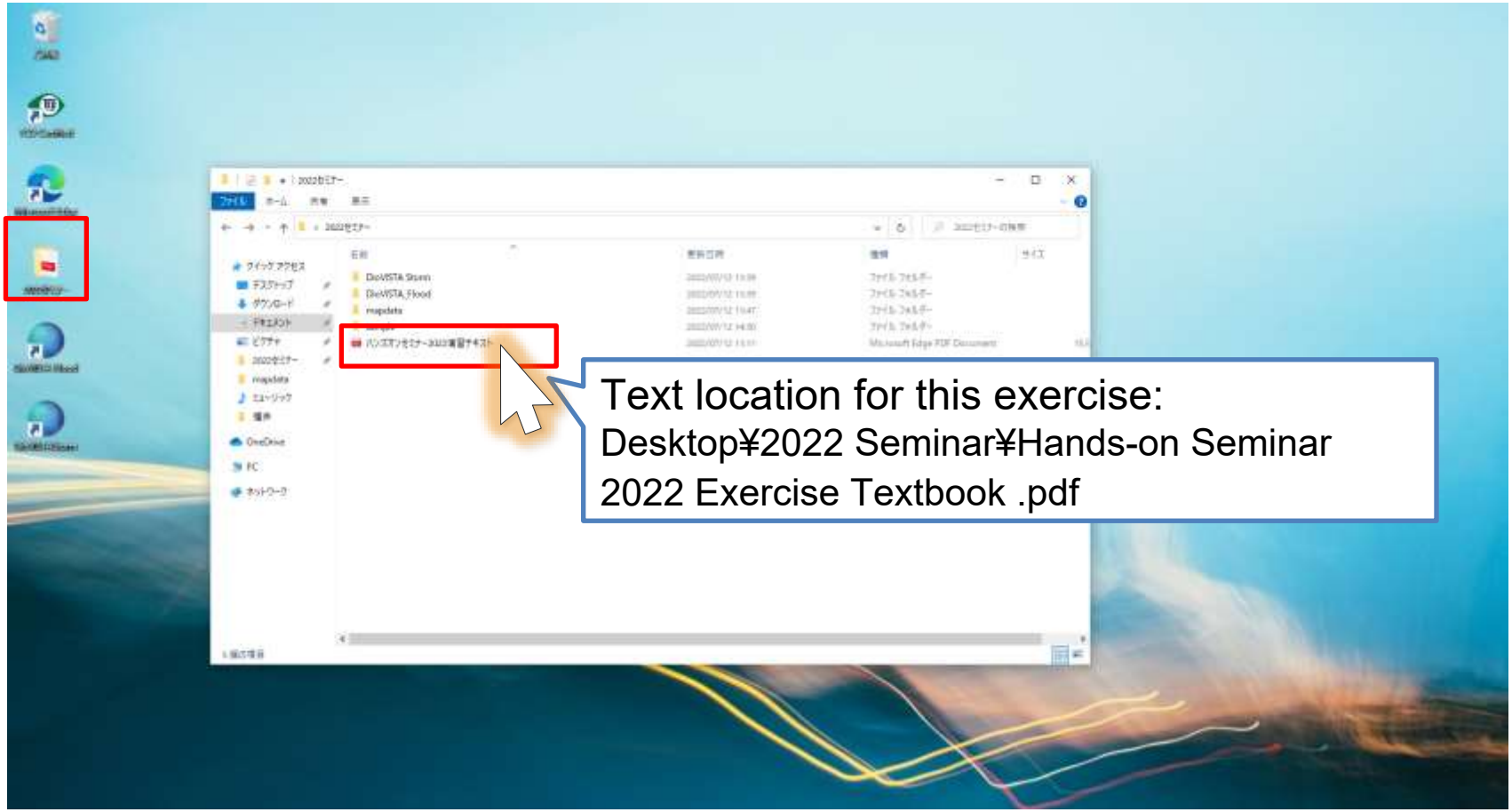
Review lecture materials



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Booting DioVISTA (1)

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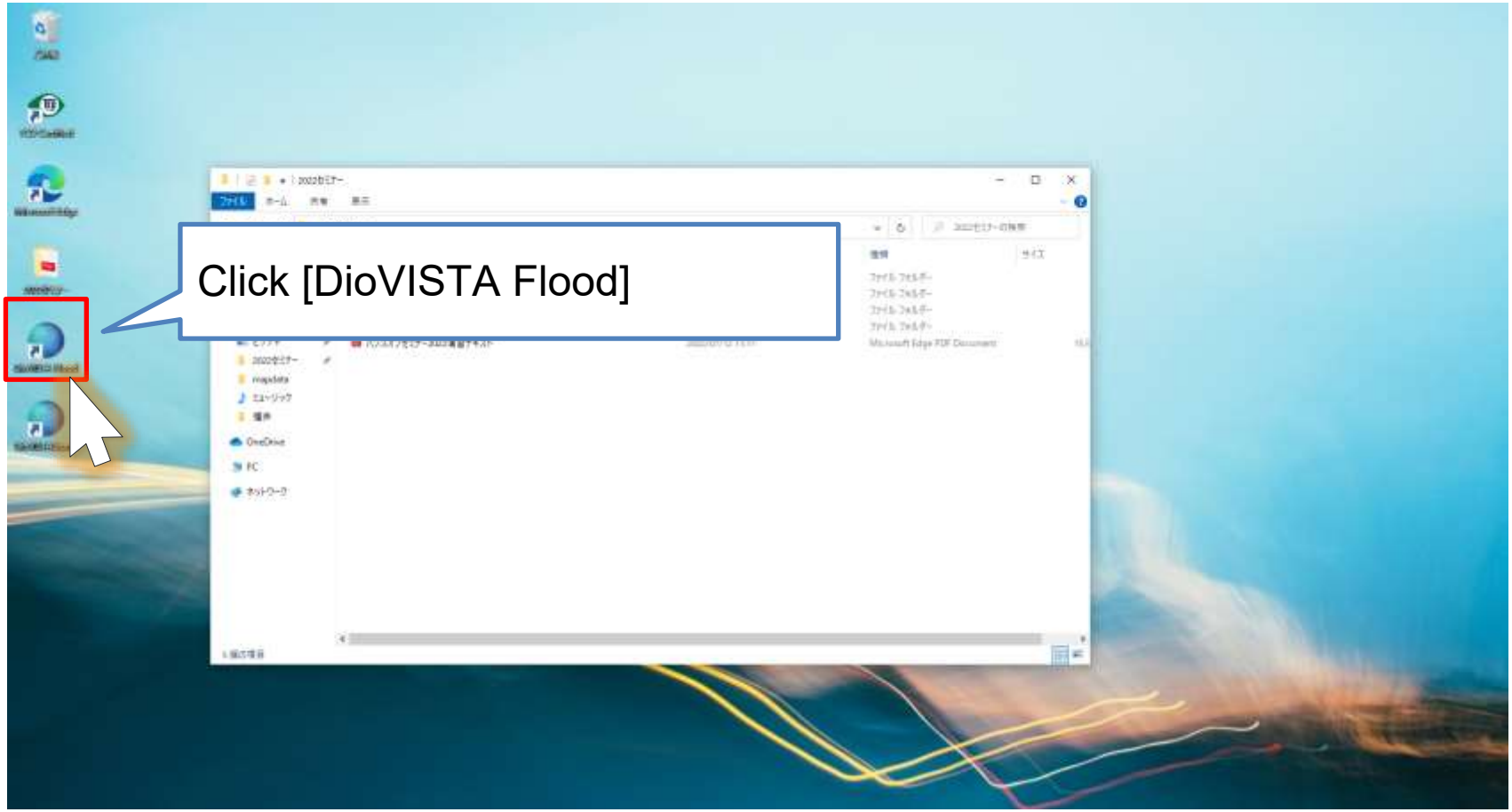

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Booting DioVISTA (2)

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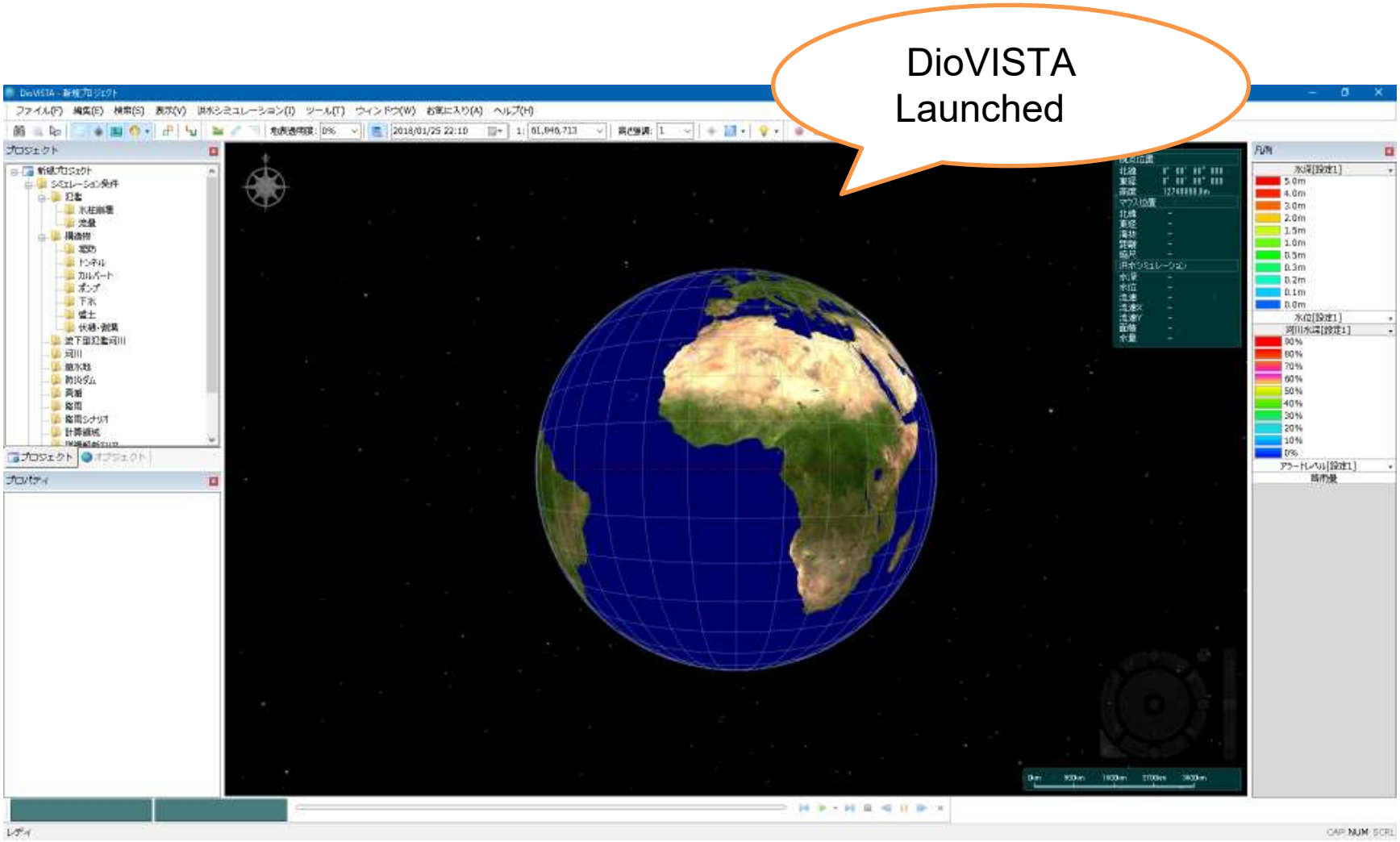

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Working with Maps (1)

HITACHI
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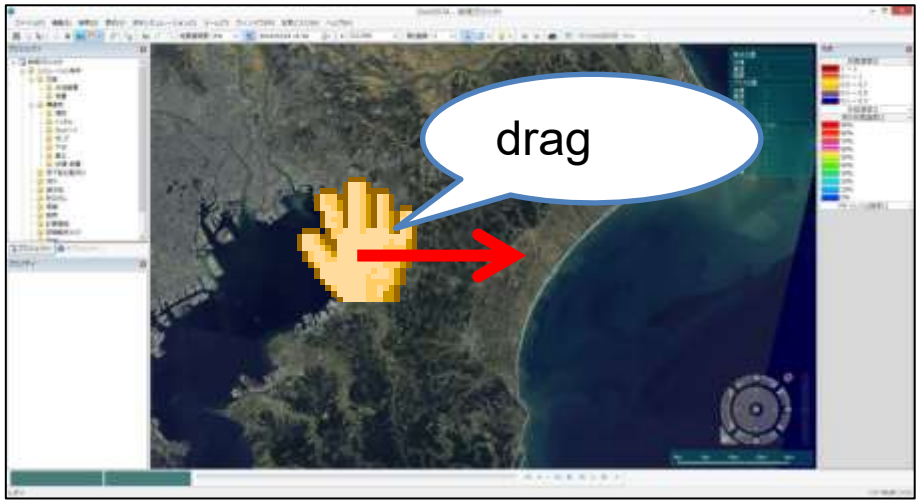
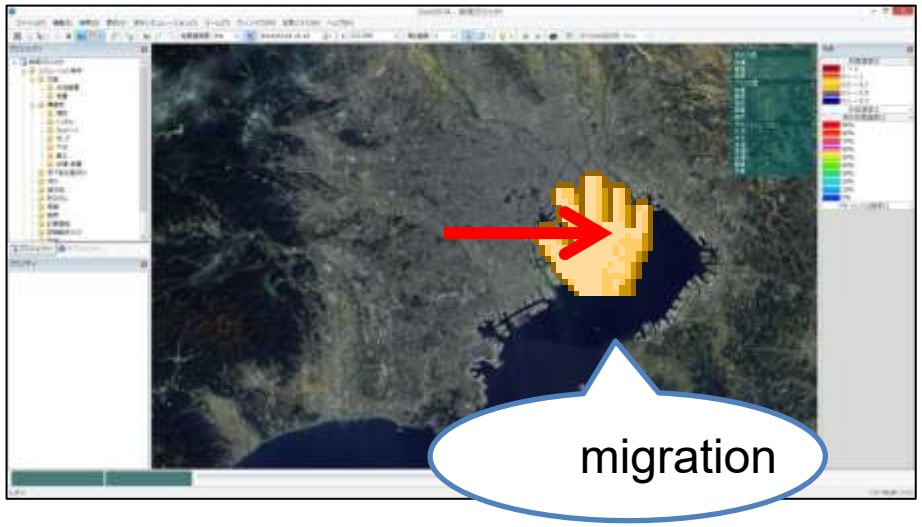
- Scrolling
  - Drag





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Working with Maps (2)

HITACHI
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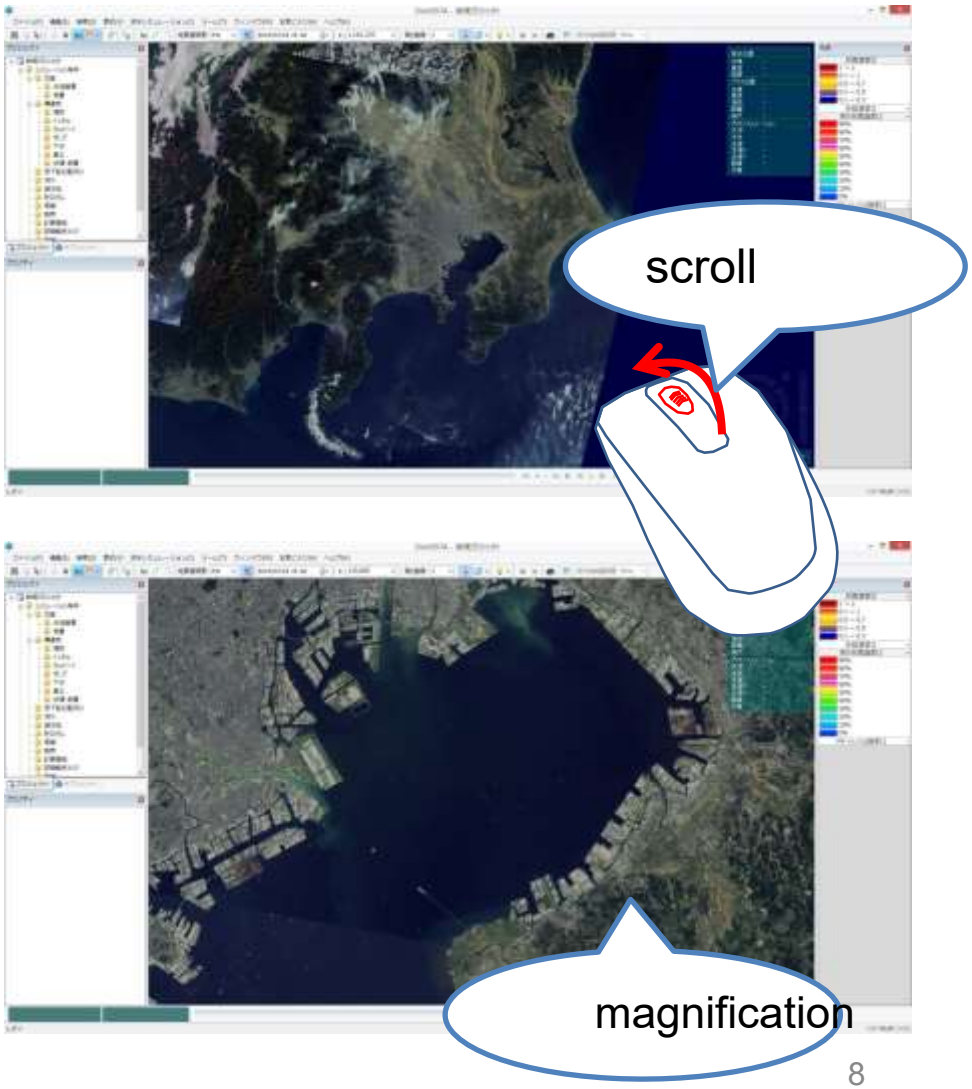
- Zoom in/out
  - Scroll the wheel



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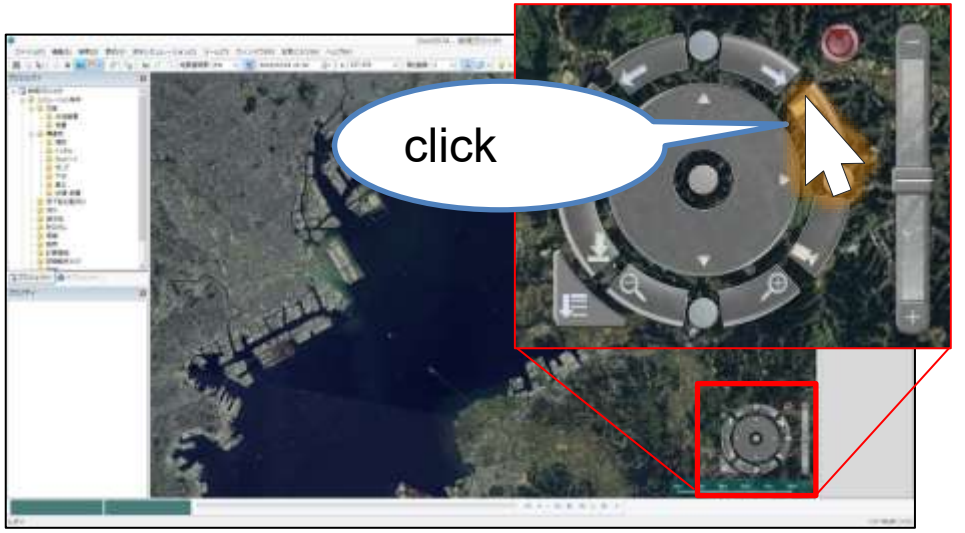
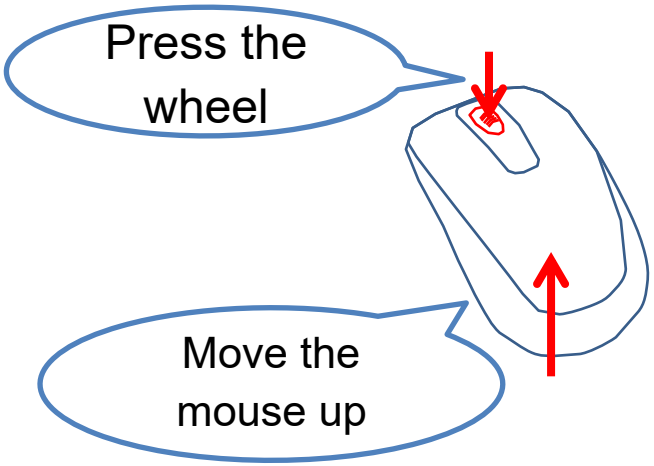
Working with Maps (3)

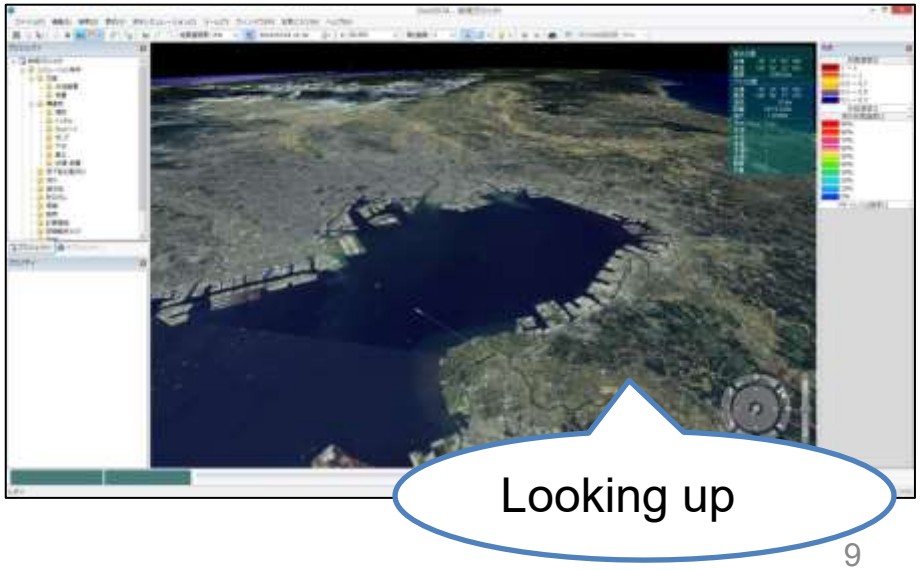
HITACHI
Inspire the Next

- Gaze up and down
  - Click the button shown on the right



If you want to perform the same operation with only the mouse





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Working with Maps (4)

HITACHI
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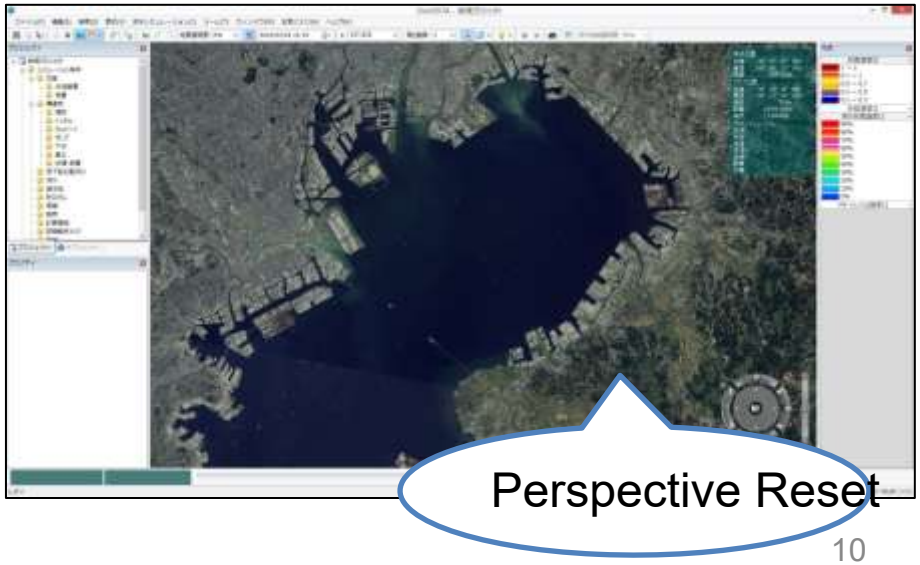
- Reset Perspective
  - Click the reset button in the figure on the right



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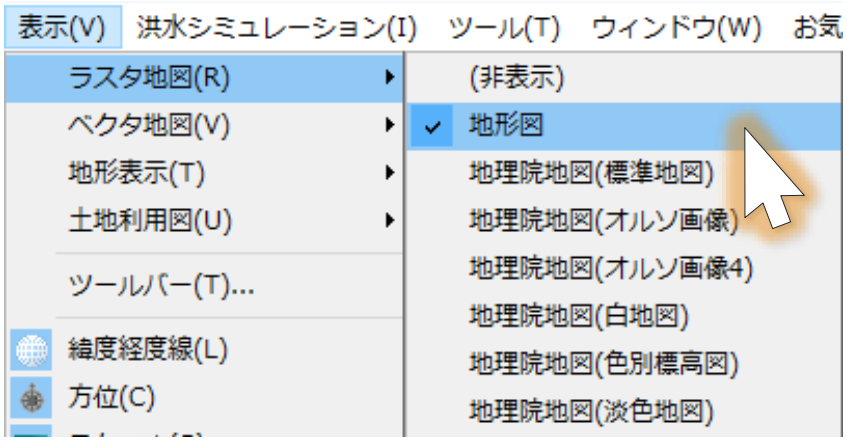
Working with Maps (5)

HITACHI
Inspire the Next

- Map selection
  - [Display] - [Raster Map]
    - Topographic maps
    - GI Map (Standard Map)
      - Map of the Institute of Geography (orthoimage)
      - Map of the Institute of Geography (White Map)



    - Map of the Institute of Geography (Elevation map by color)
    - Map of the Institute of Geography (light map)

* Maps of the Institute of Geography (GSI) (various types) require an Internet connection.

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Map Type (1)

HITACHI
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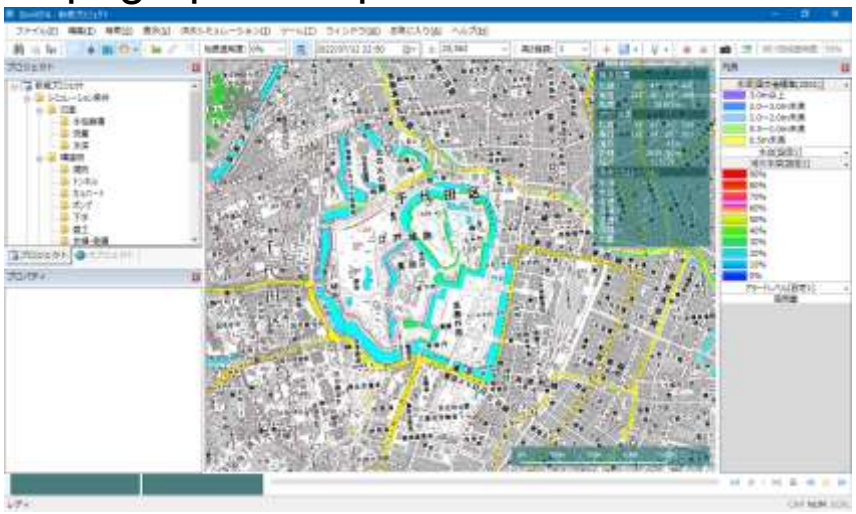
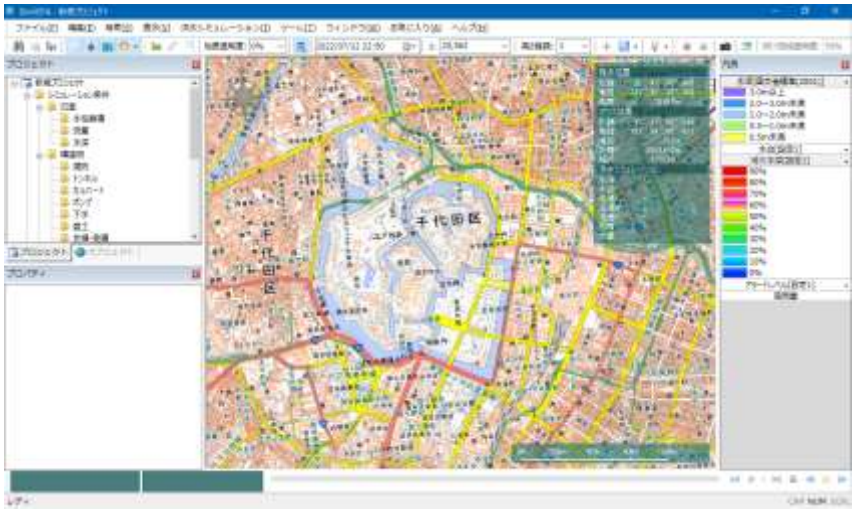
Topographic map



GI Map (Standard Map)



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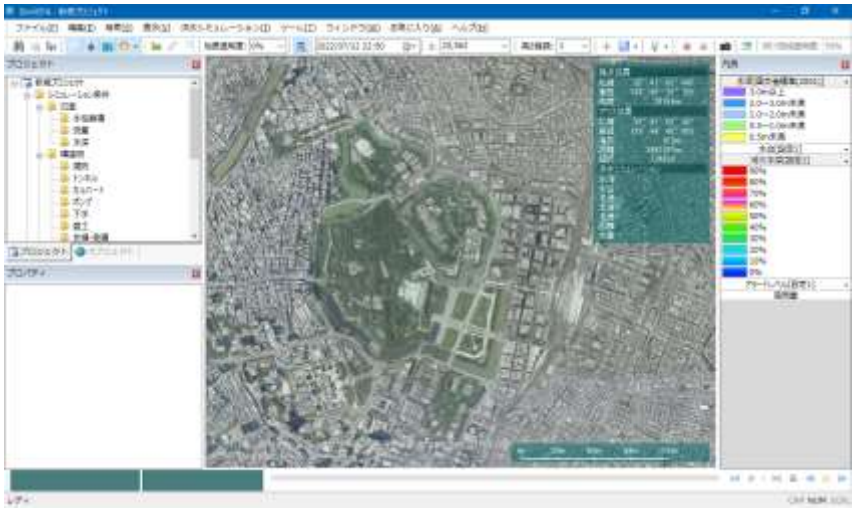
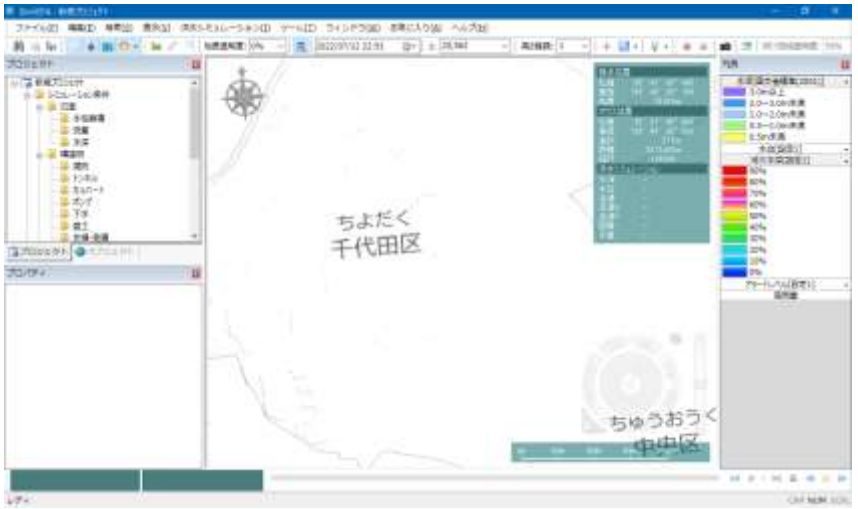
Map Type (2)

HITACHI
Inspire the Next

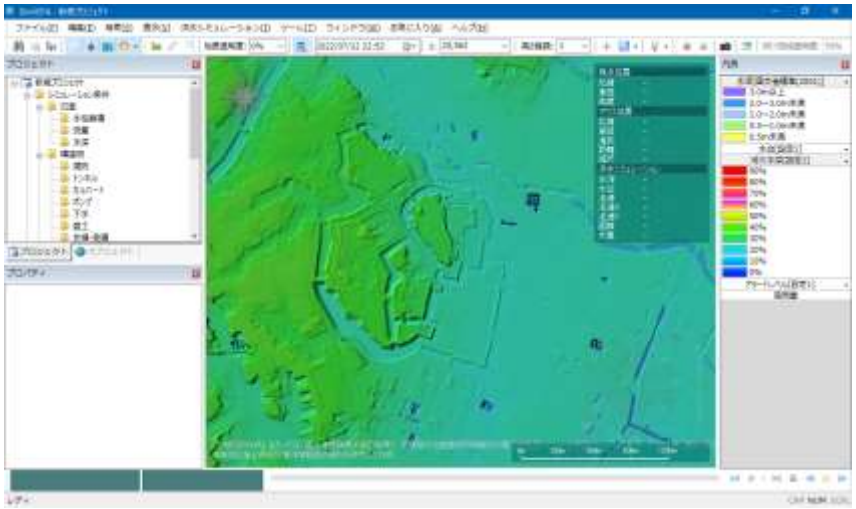
Map of the Institute of Geography (Ortho image)



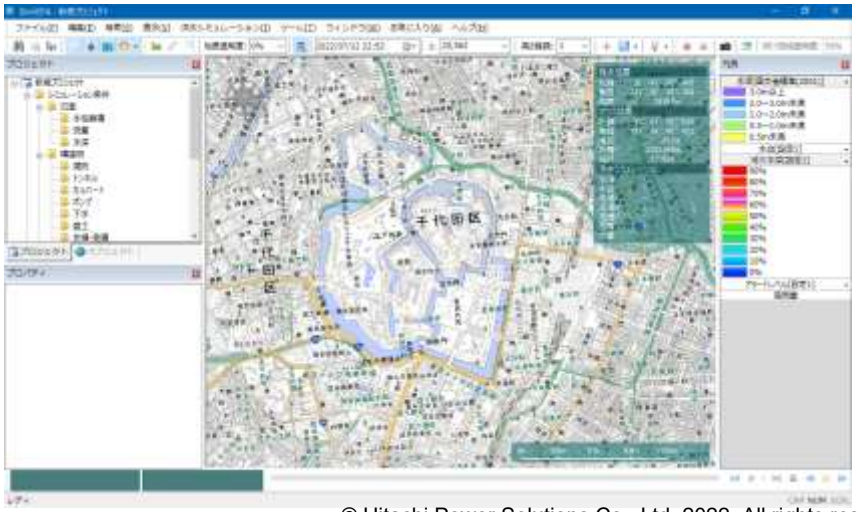
Map of the Institute of Geography (White Map)



Map of the Institute of Geography (Elevation map by color)



GI Map (Light color map)



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Working with Maps (6)

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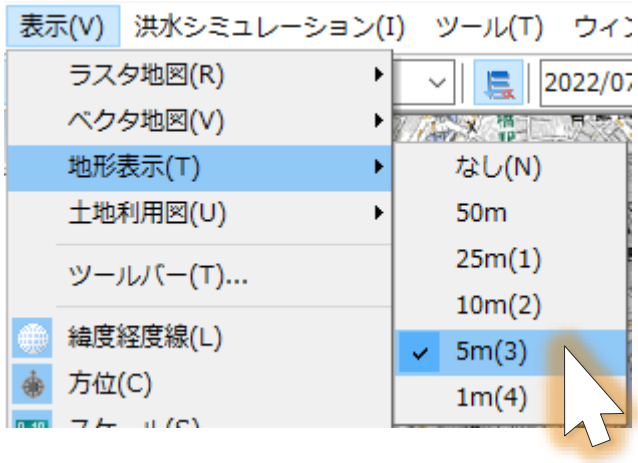
- Terrain selection
  - [Display] - [Terrain Display]
    - None
    - 50m
    - 25m
    - 10m
    - 5m
    - 1m



If you select terrain data that has not been imported, it will not be displayed.

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Working with Maps (7)

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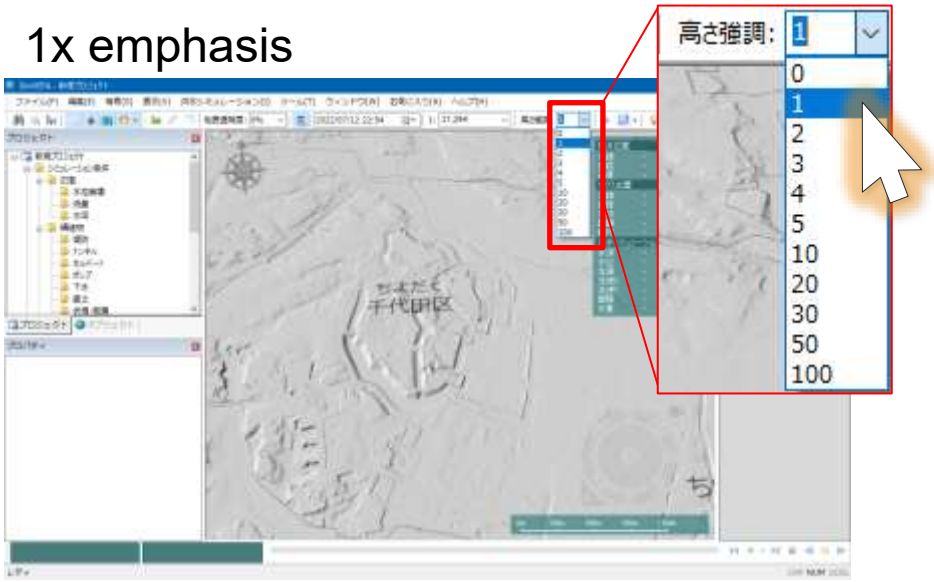
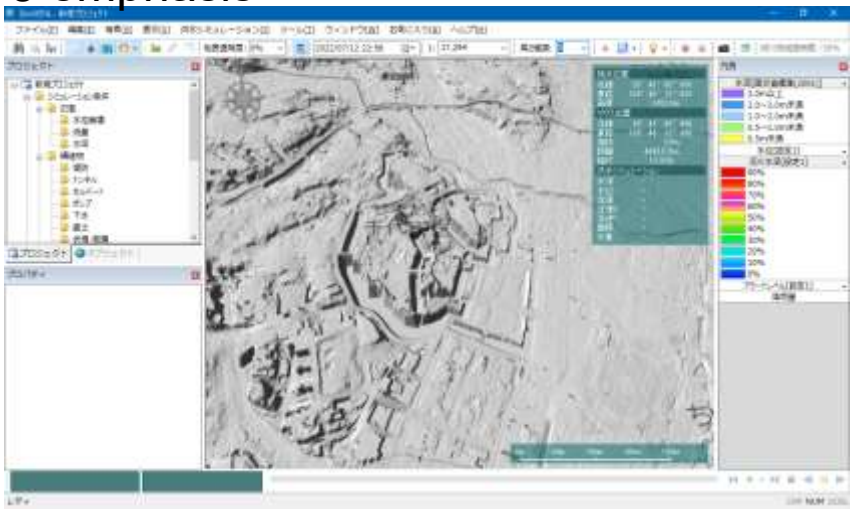
- Terrain height enhancement
  - Toolbar [Height Enhancement]

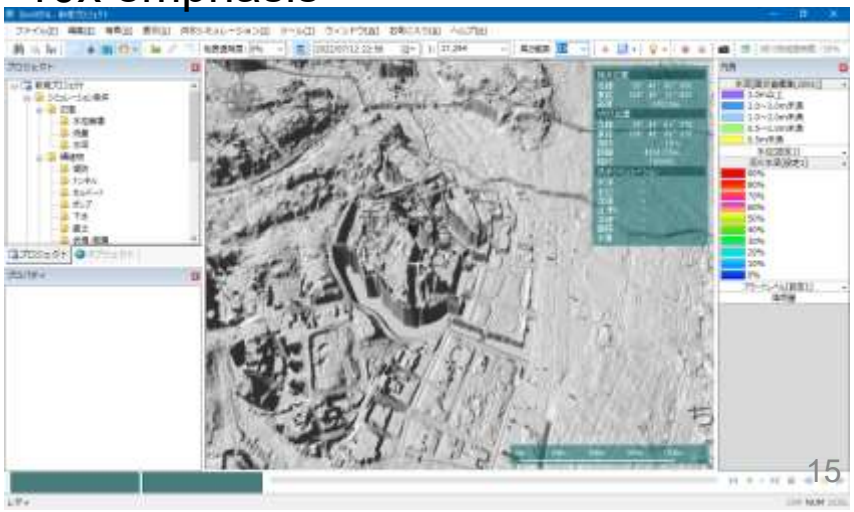
1x emphasis



5 emphasis



10x emphasis



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1. Launch and map operation
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   - Preparation of embankments and culverts
   - 25m mesh flood calculation
   - Ground clearance editing
3. Practice: Analysis of the Tsurumi River

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practice

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Where the data is stored

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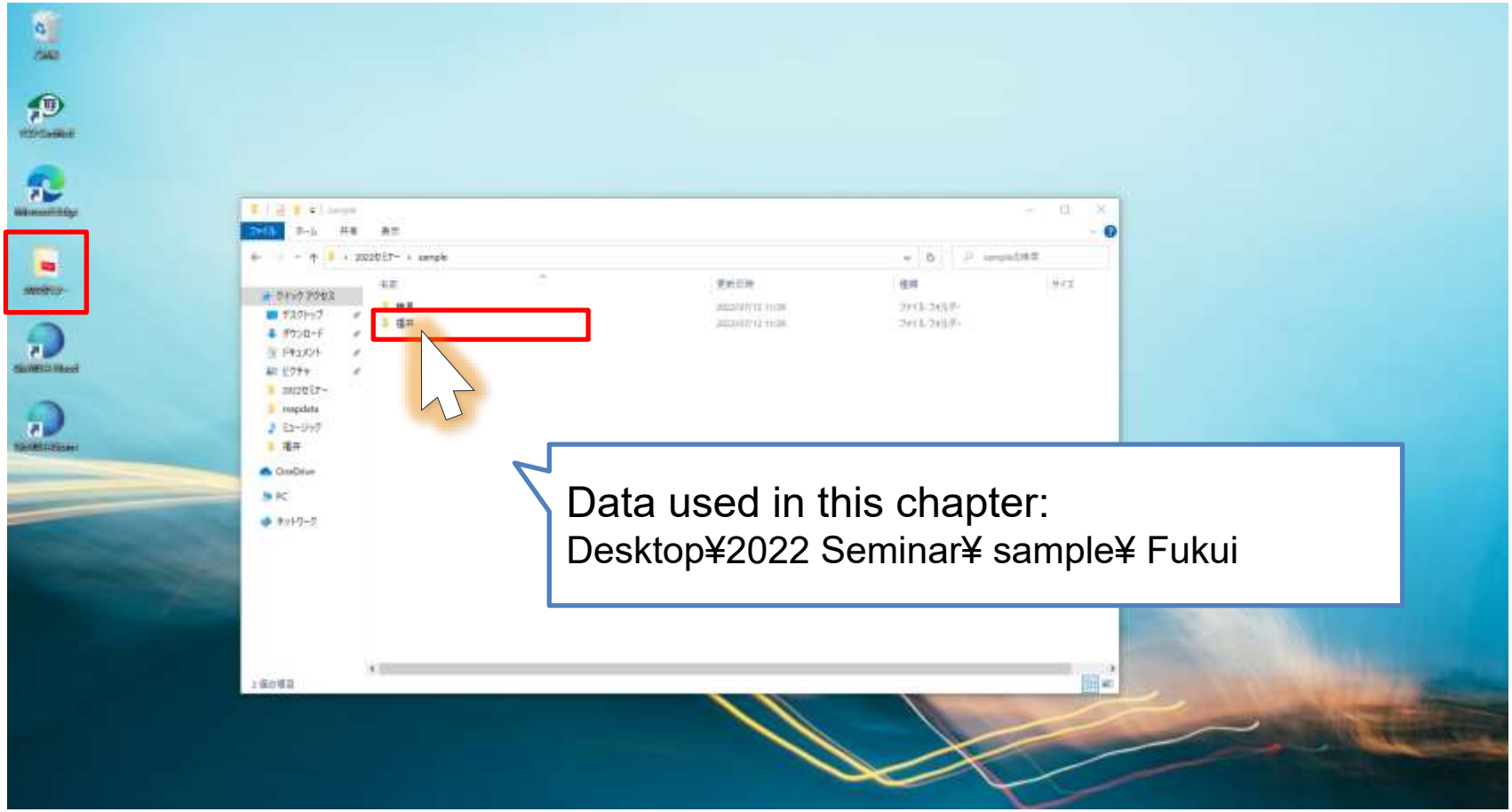

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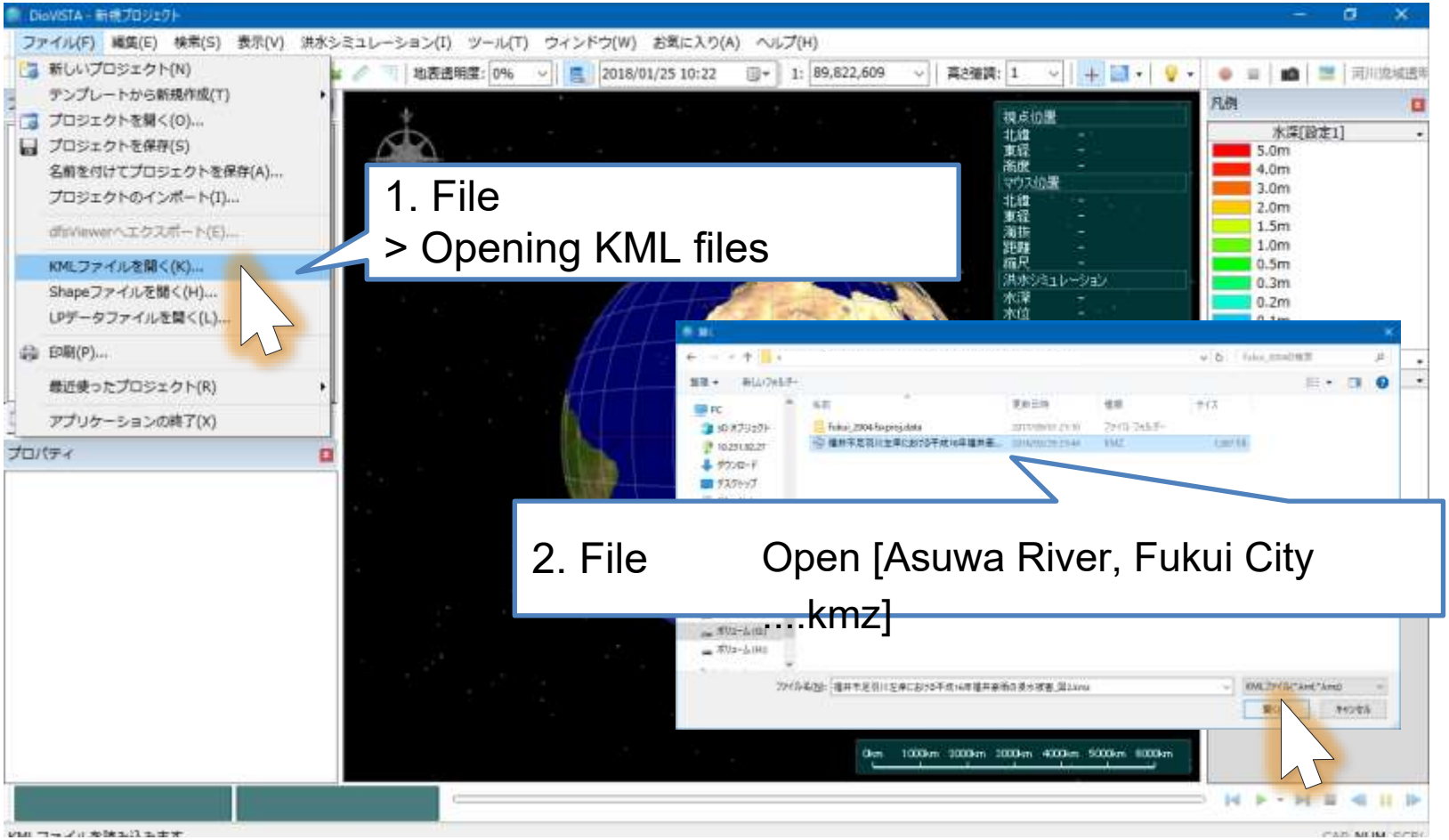
Loading KML

HITACHI
Inspire the Next



Specify the file [.kmz of flood damage caused by heavy rain in Fukui in Heisei 16 on the left bank of the Asuwa River in Fukui City

Sources of inundated areas: Yamamoto, Flood damage caused by heavy rains in Fukui in Heisei 16 on the left bank of the Asuwa River, Fukui City, Natural Disaster Science, Vol. 26 , No. 1, pp. 41-53, 2007

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Switch between maps

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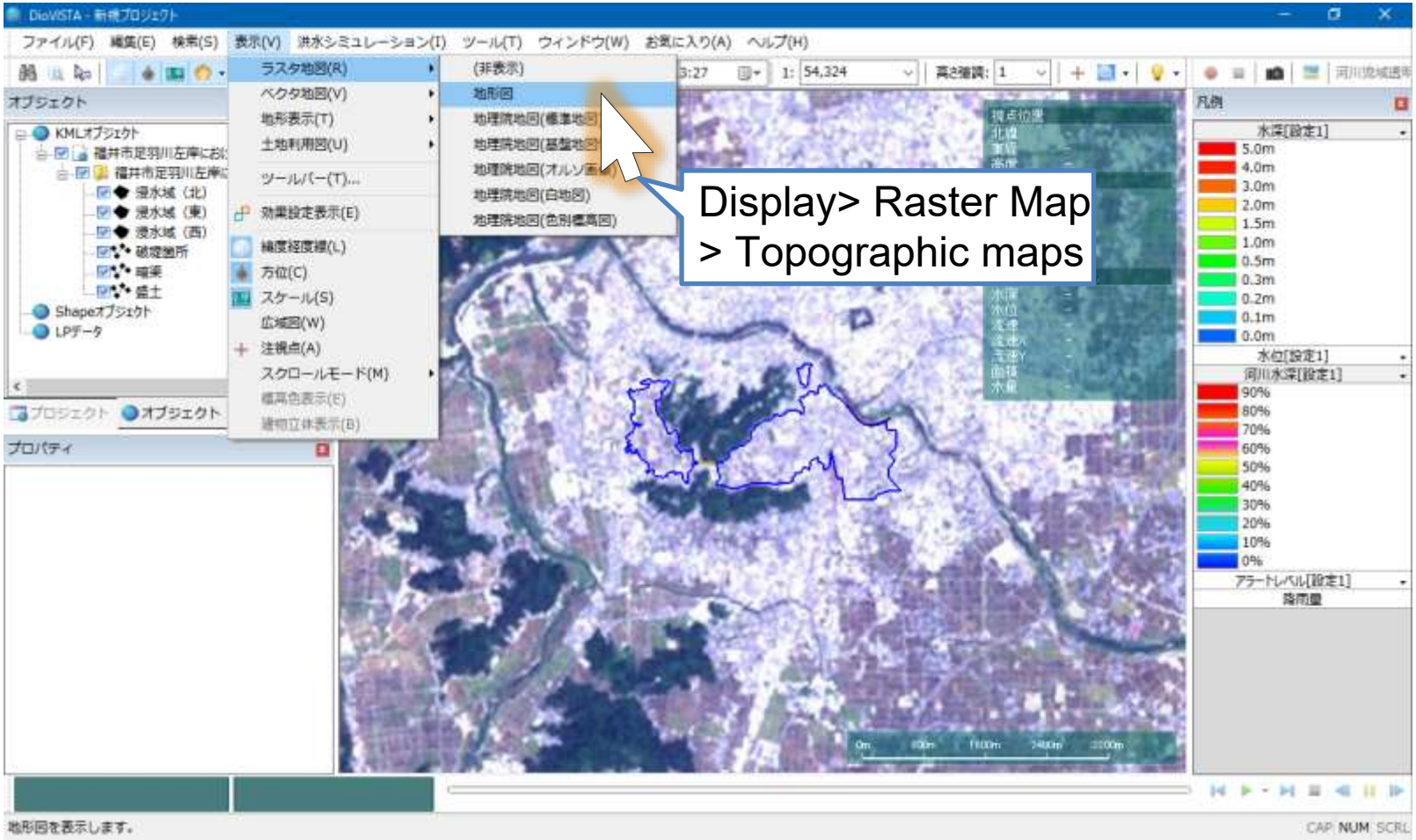

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Move to the break point

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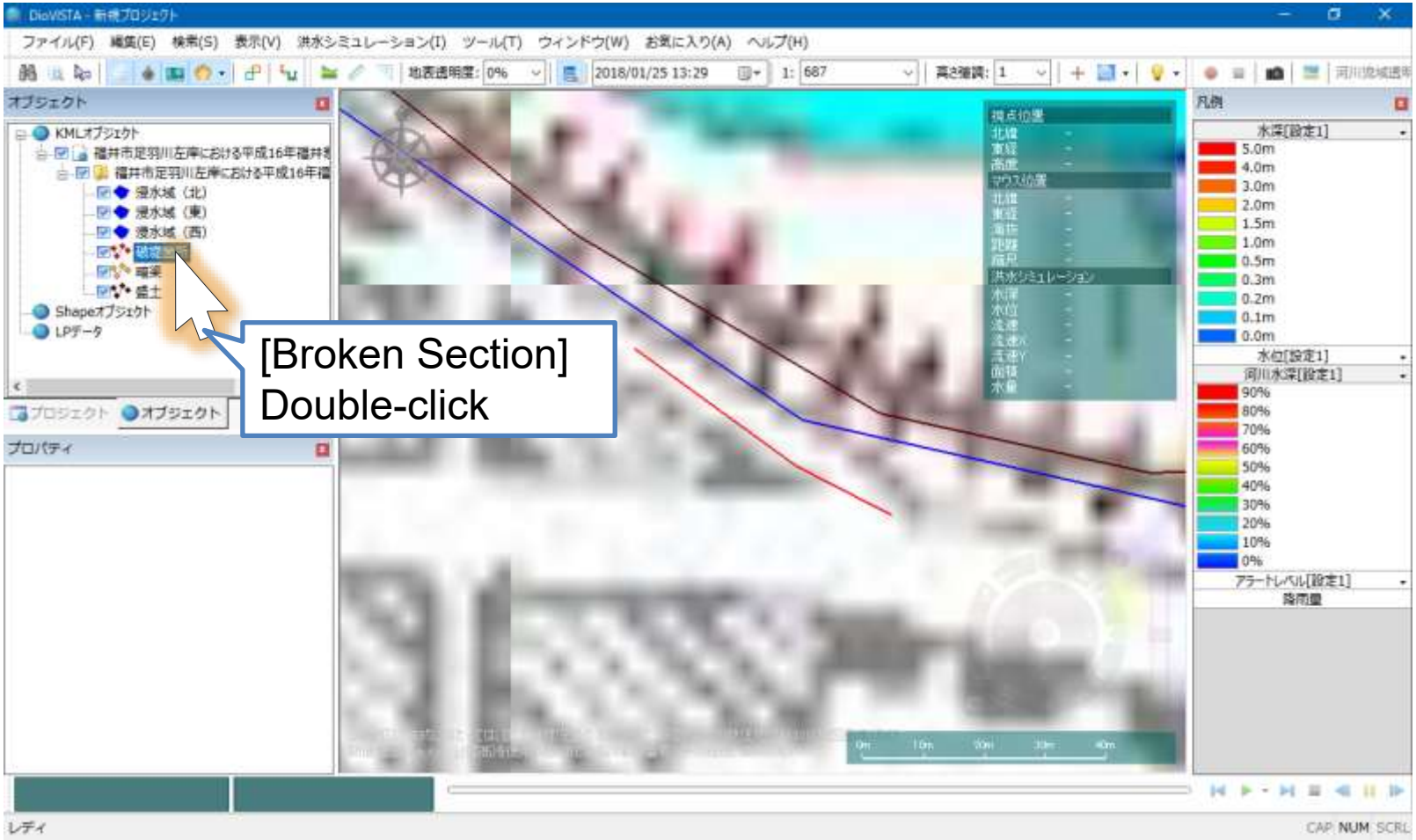

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Set the break point (1)

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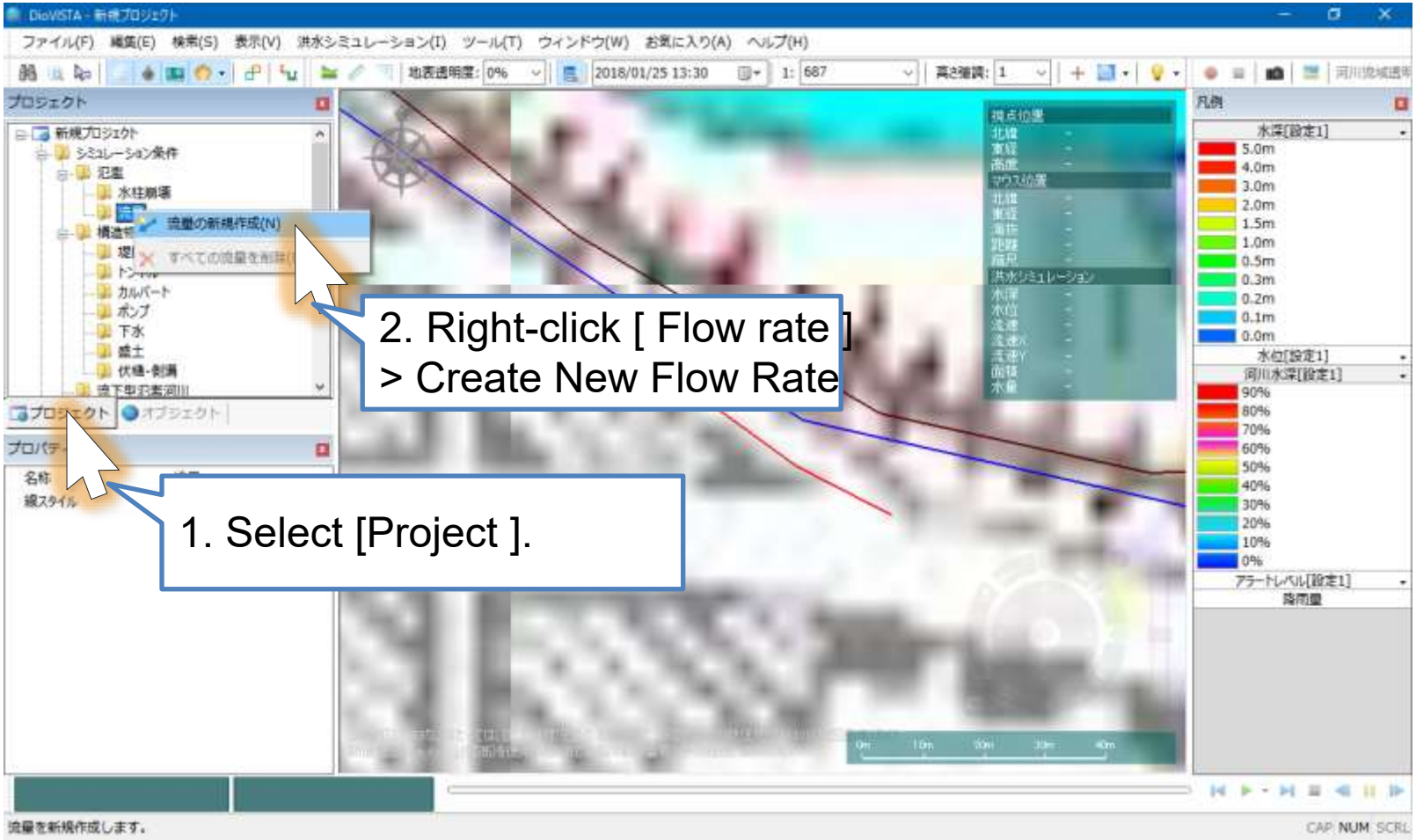
Inspire the Next



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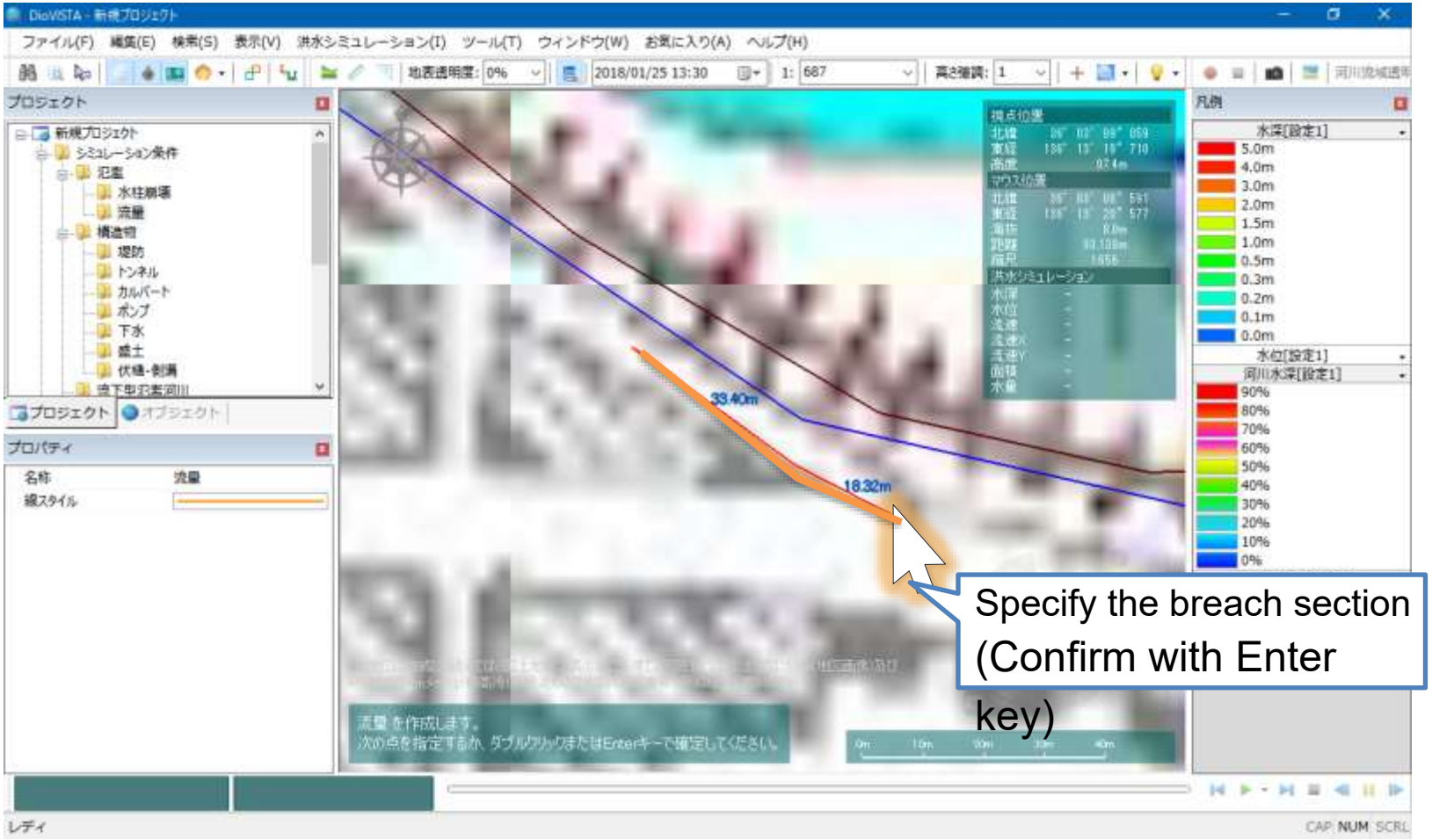
Set the location of the levee (2)



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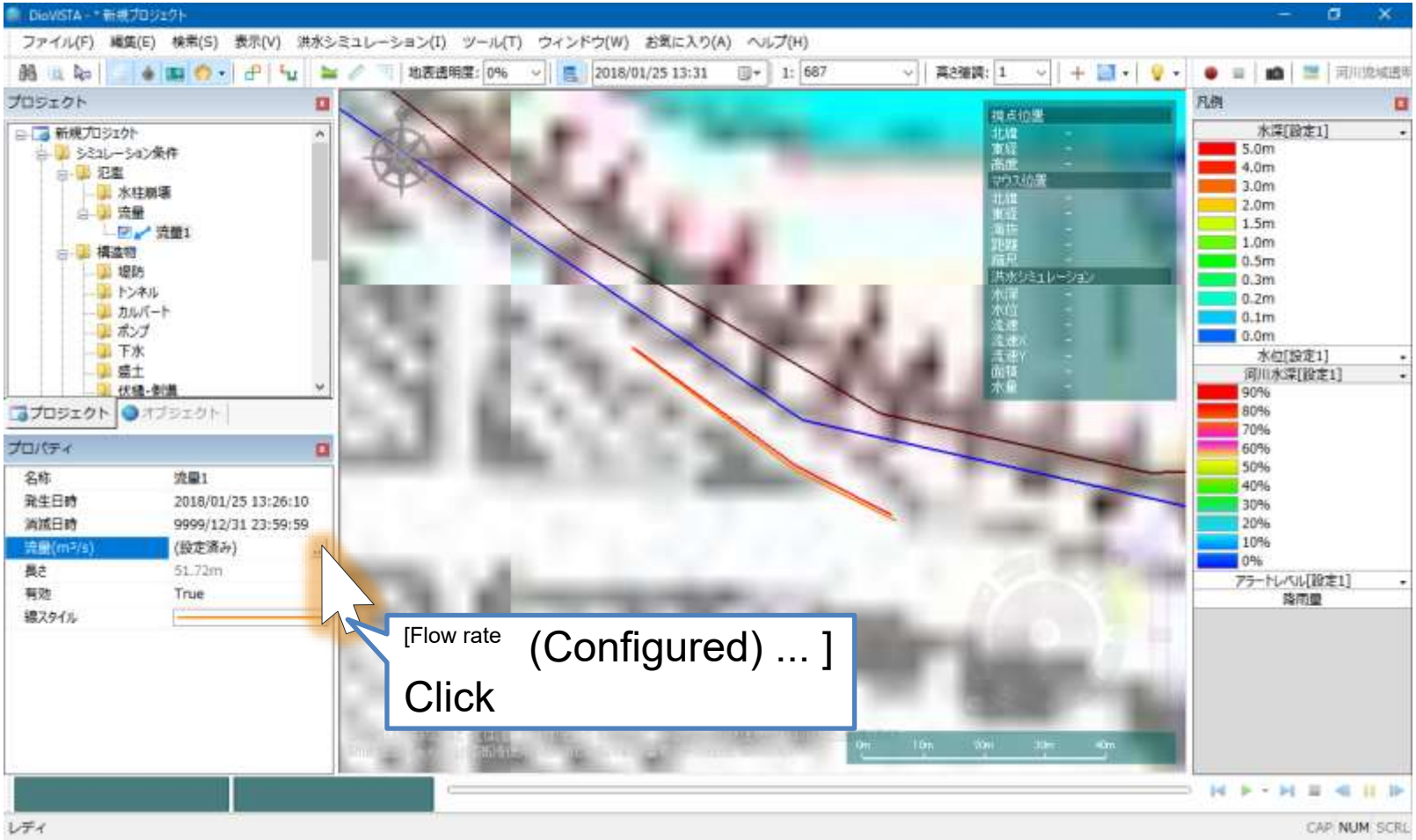
Set the location of the levee (3)



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Set the break point (4)

HITACHI
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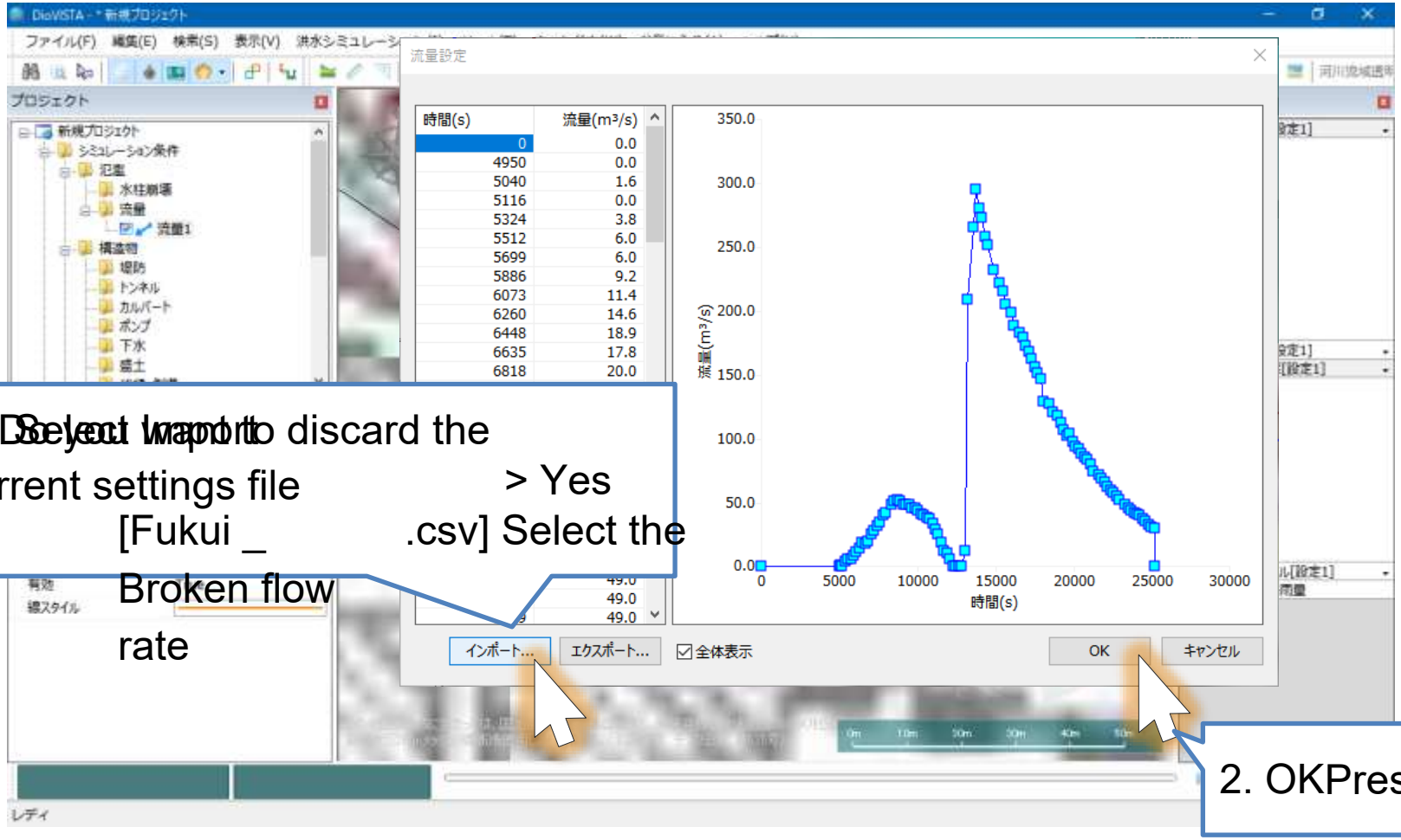

CSV file created based on the following documents: Fukui Prefecture, Asuwa River Flood Disaster Investigation Countermeasure Study Report, March 17 Yamaguchi , Iwamura, 2004 Accuracy verification of flood simulation by Asuwa River flood case , Proceedings of the Annual Annual Meeting of the Japan Society of Civil Engineers , 2006

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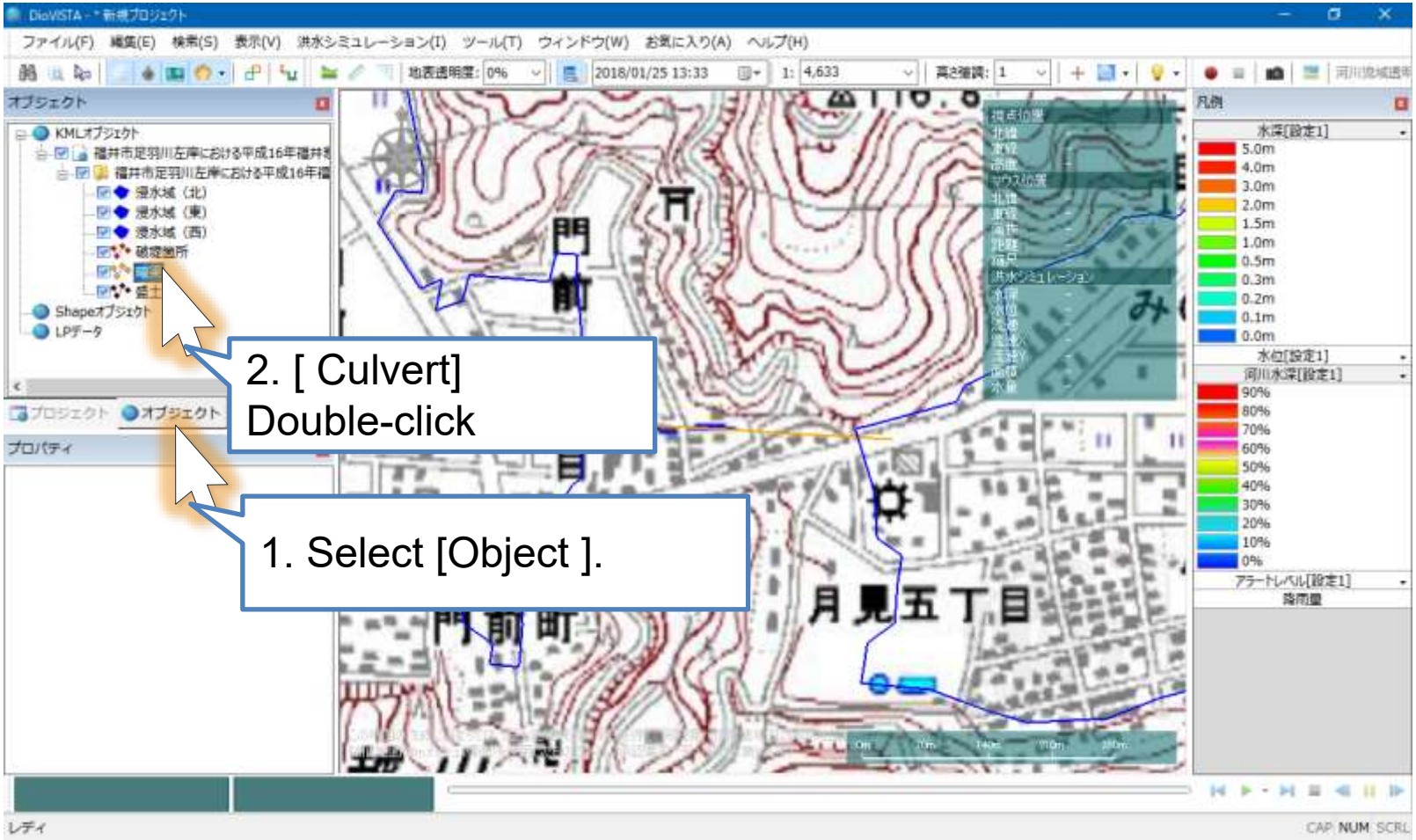
Set culverts (1)



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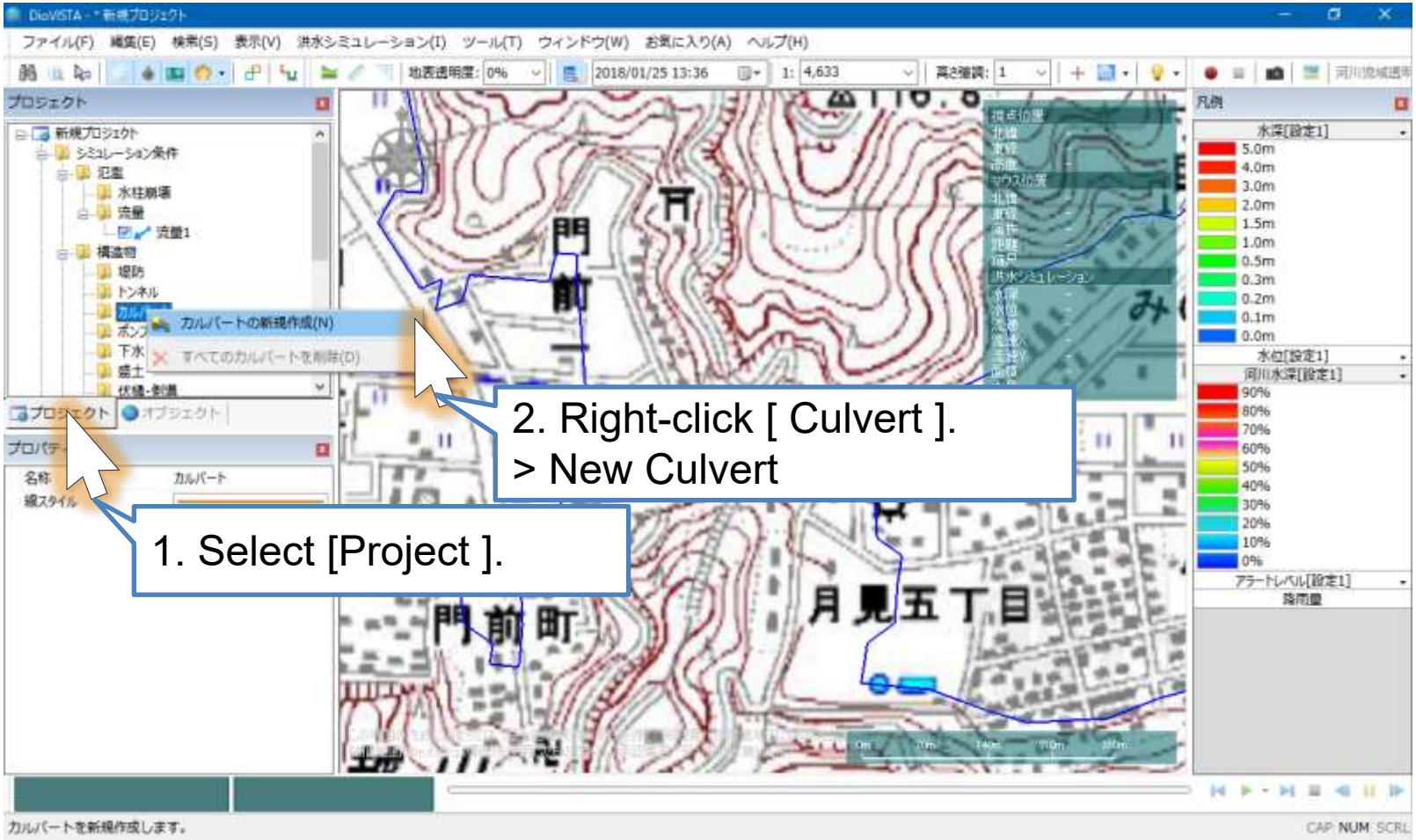
Set culverts (2)



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Set culverts (3)

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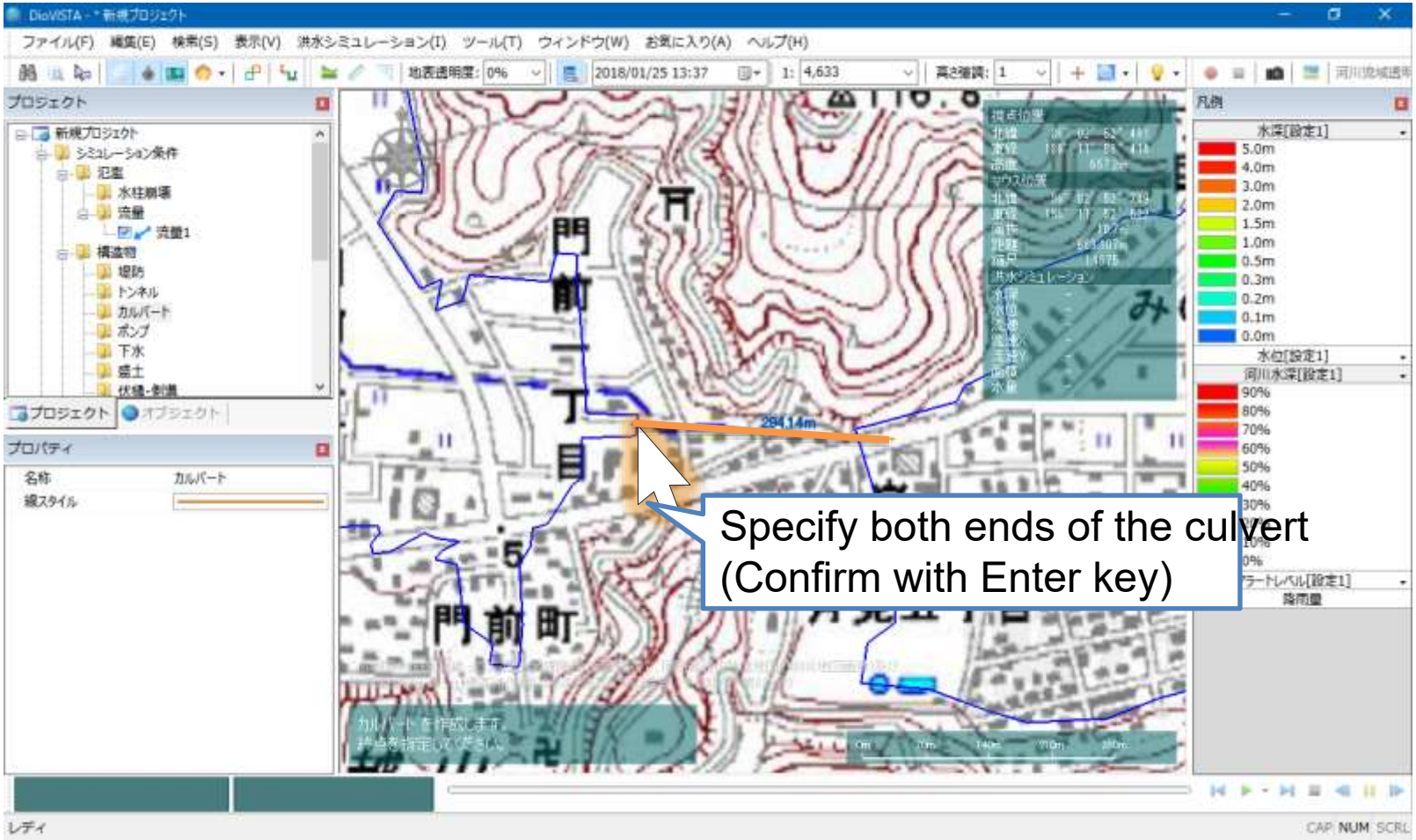

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Set culverts (4)

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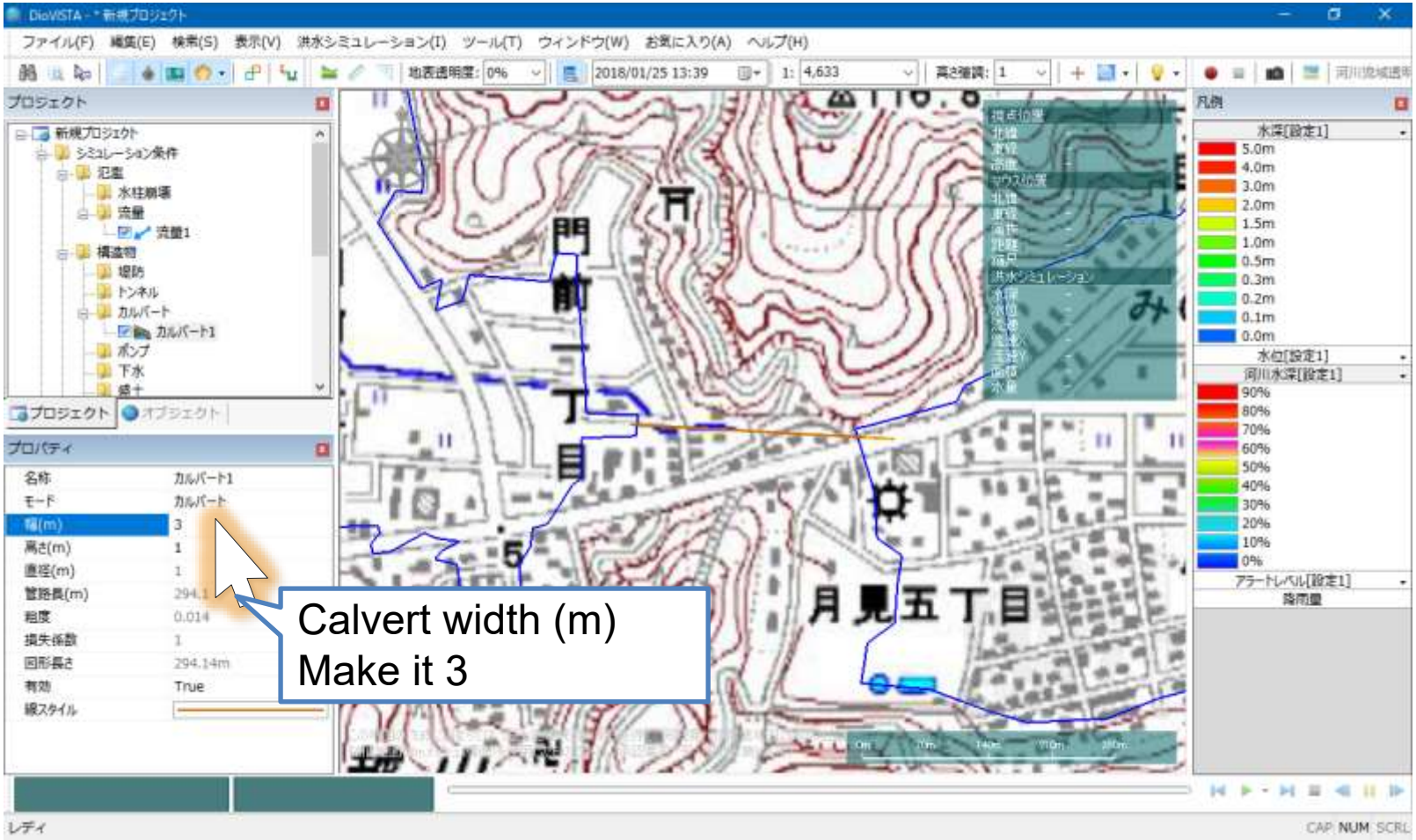

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Set Embankment (1)

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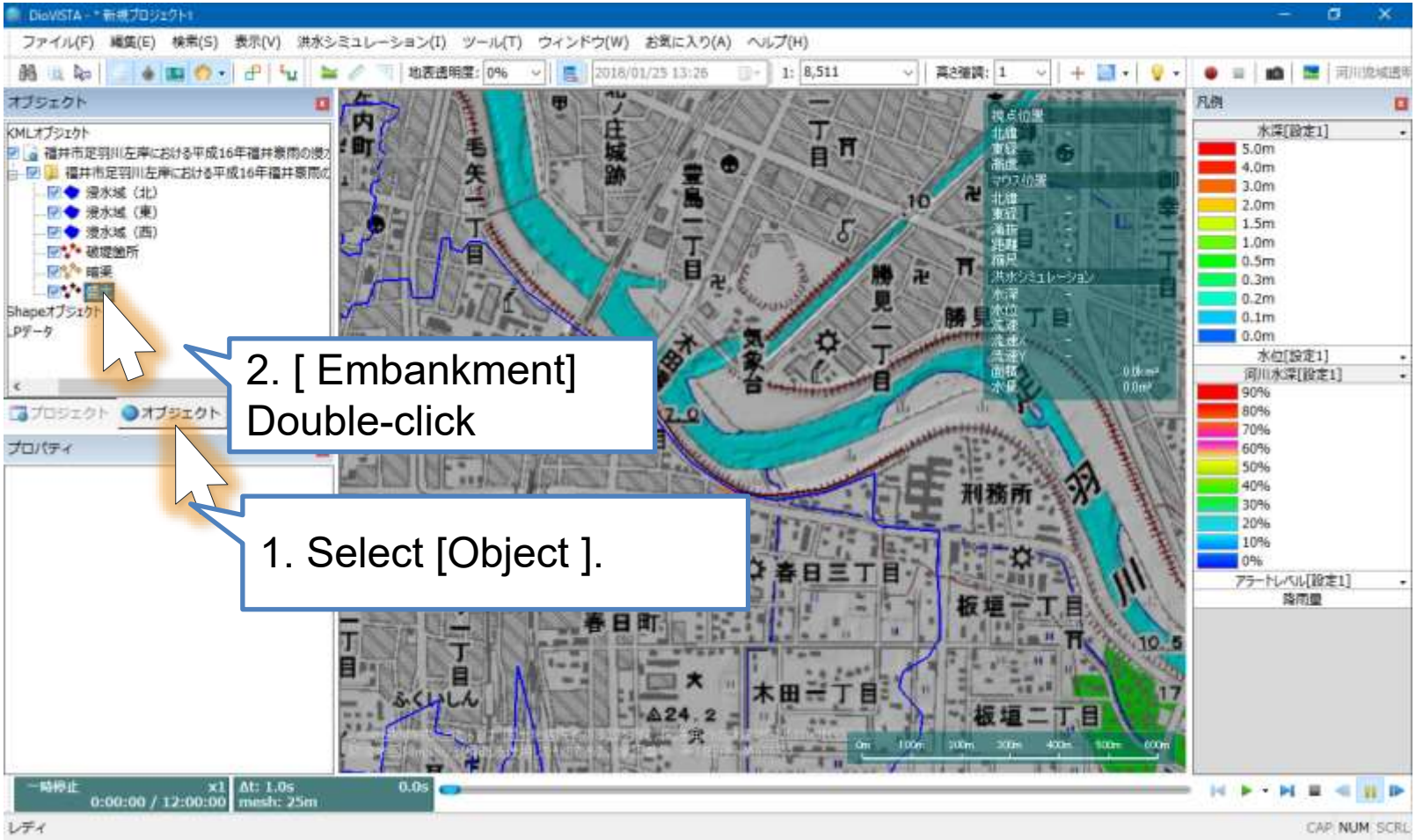

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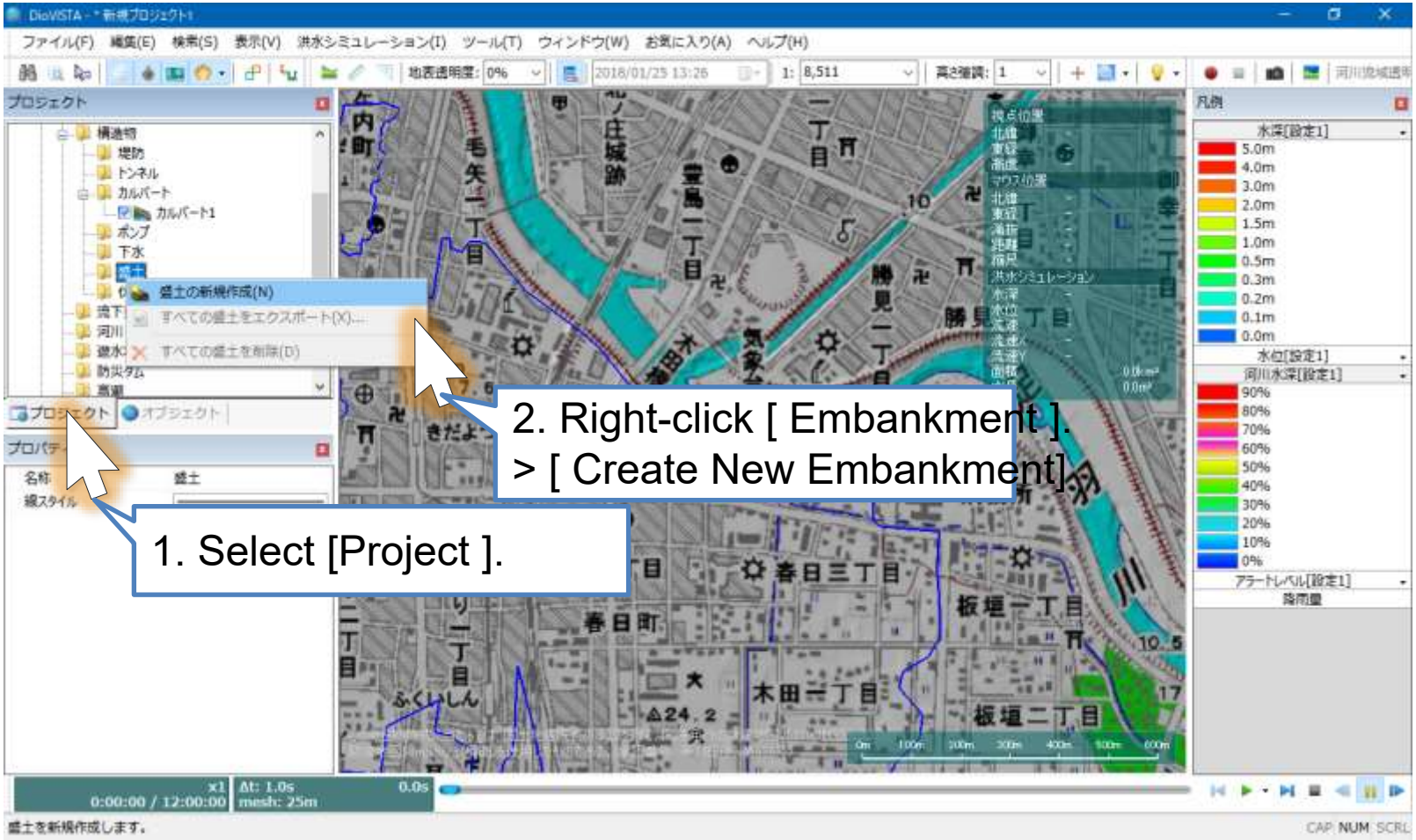
Set the embankment (2)



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Set Embankment (3)

HITACHI
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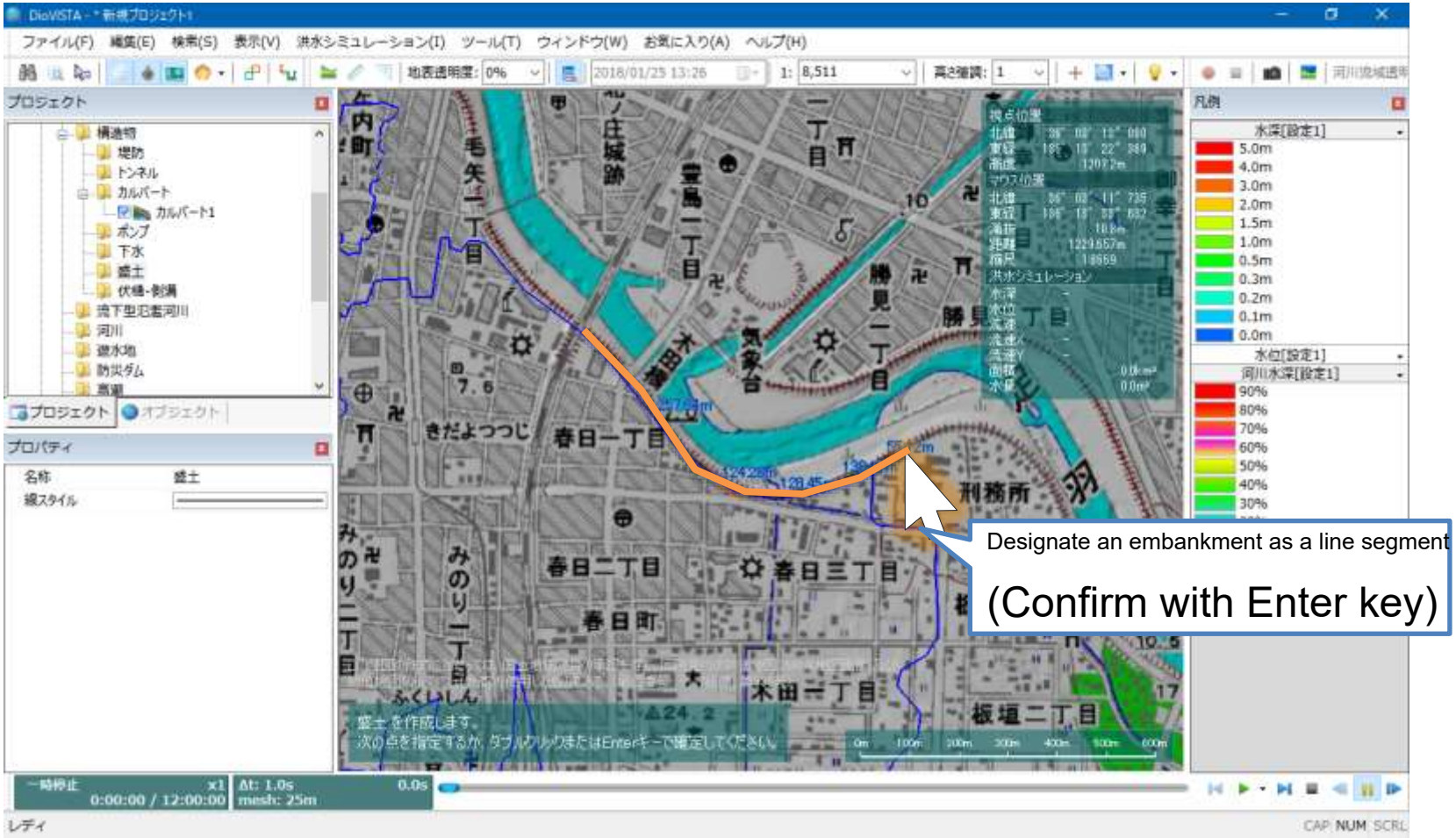

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Flood Analysis (1)

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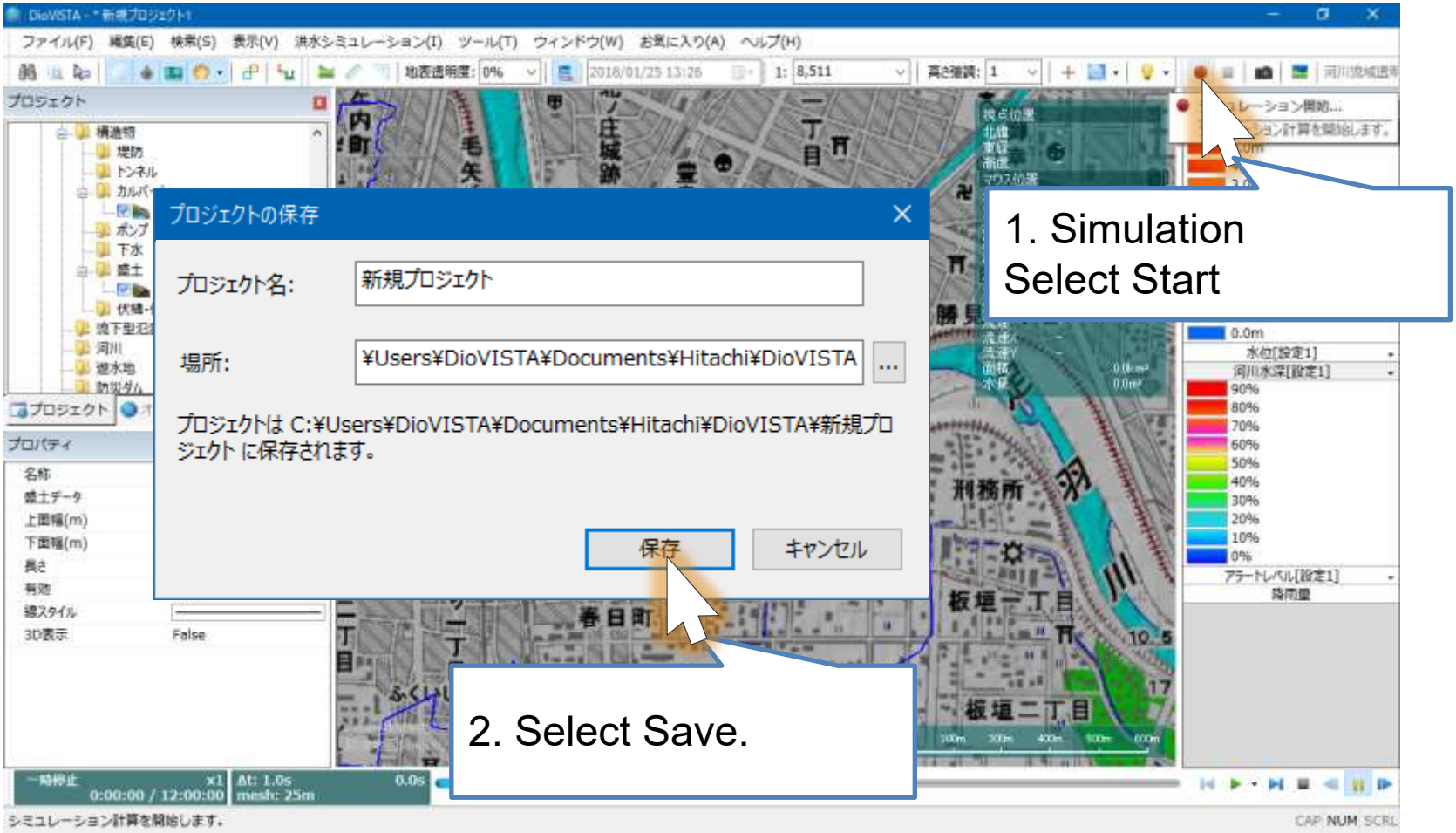

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Flood Analysis (2)

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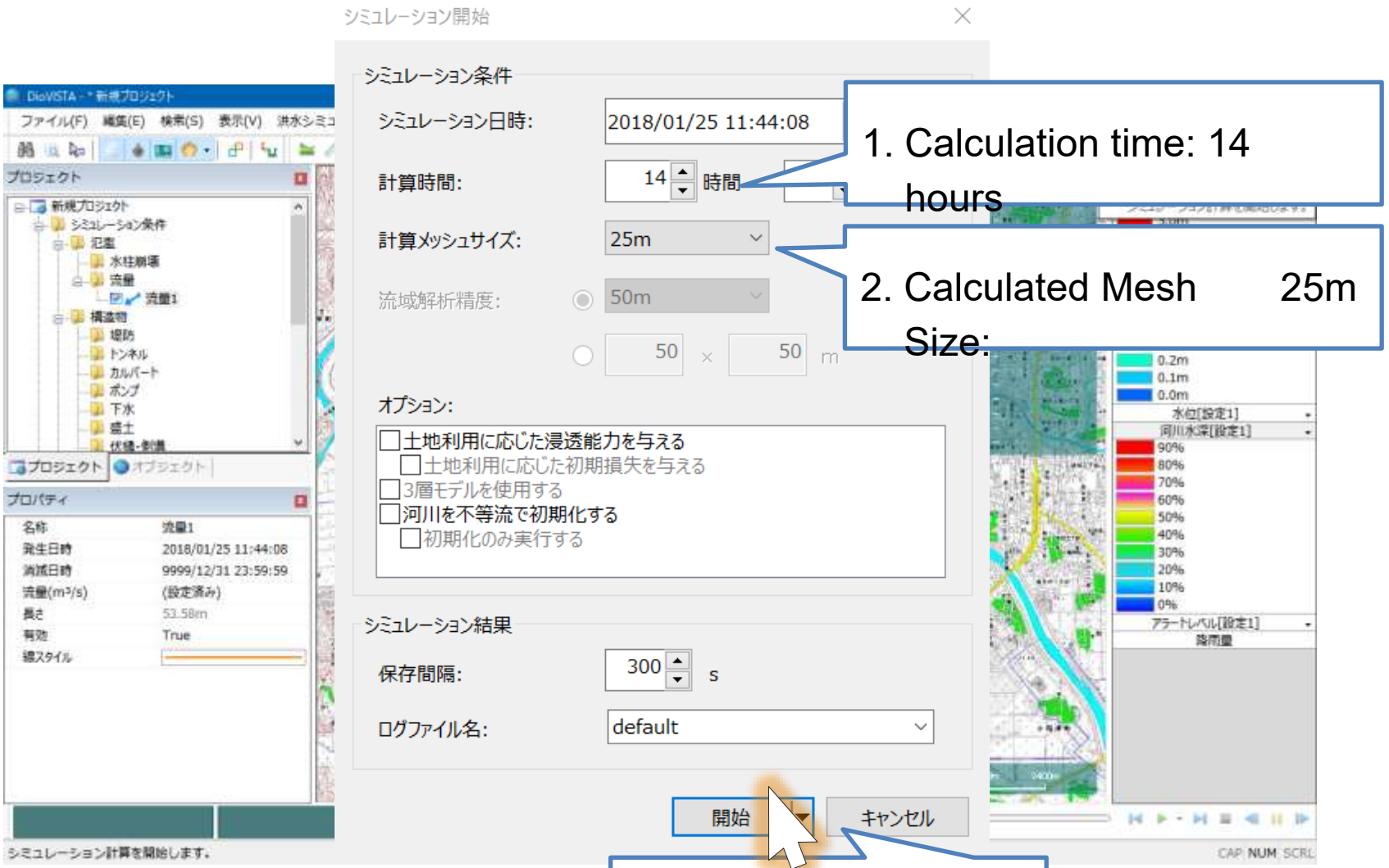

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Flood Analysis (3)

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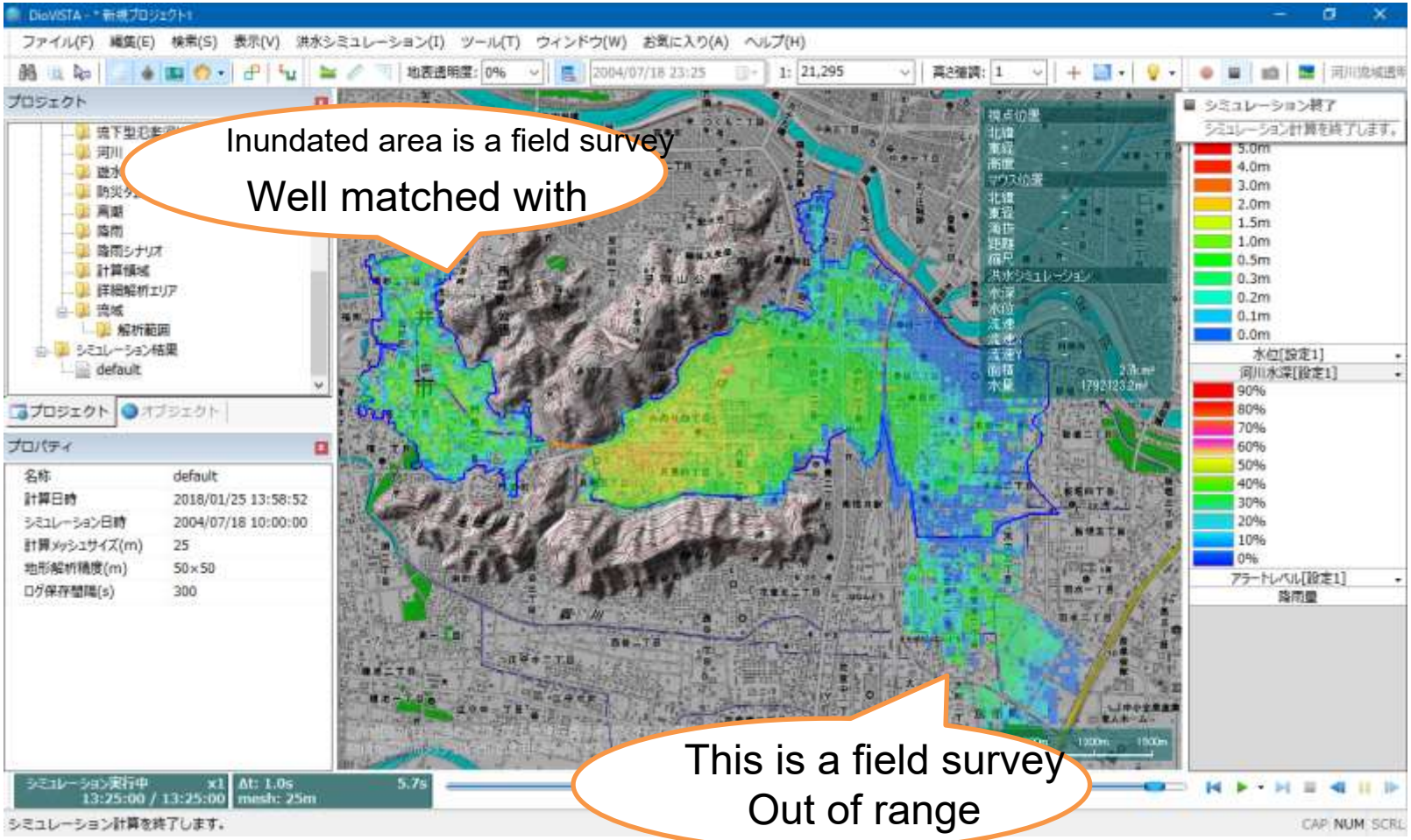

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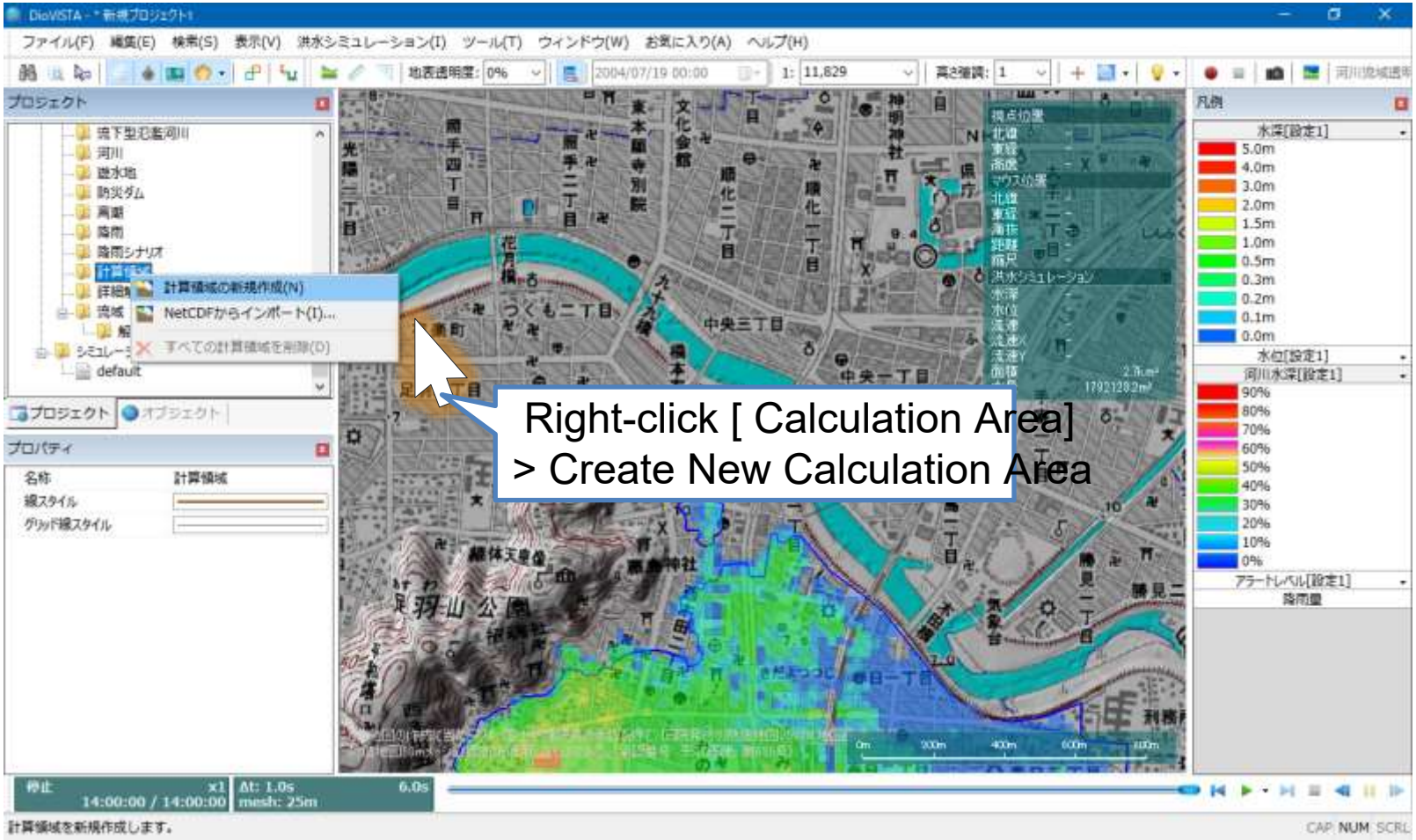
Ground Clearance Editing (1)



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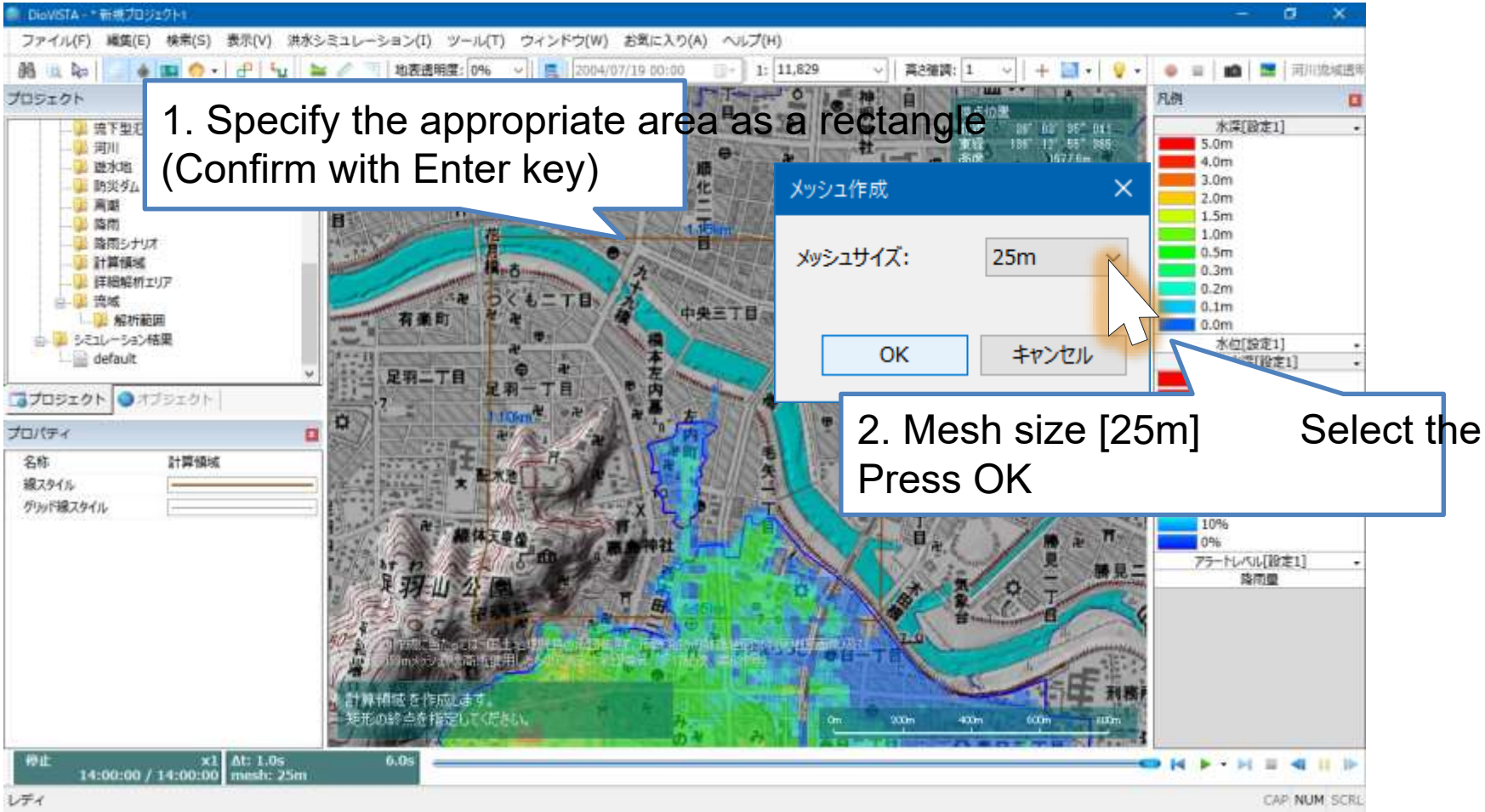
Ground Clearance Editing (2)



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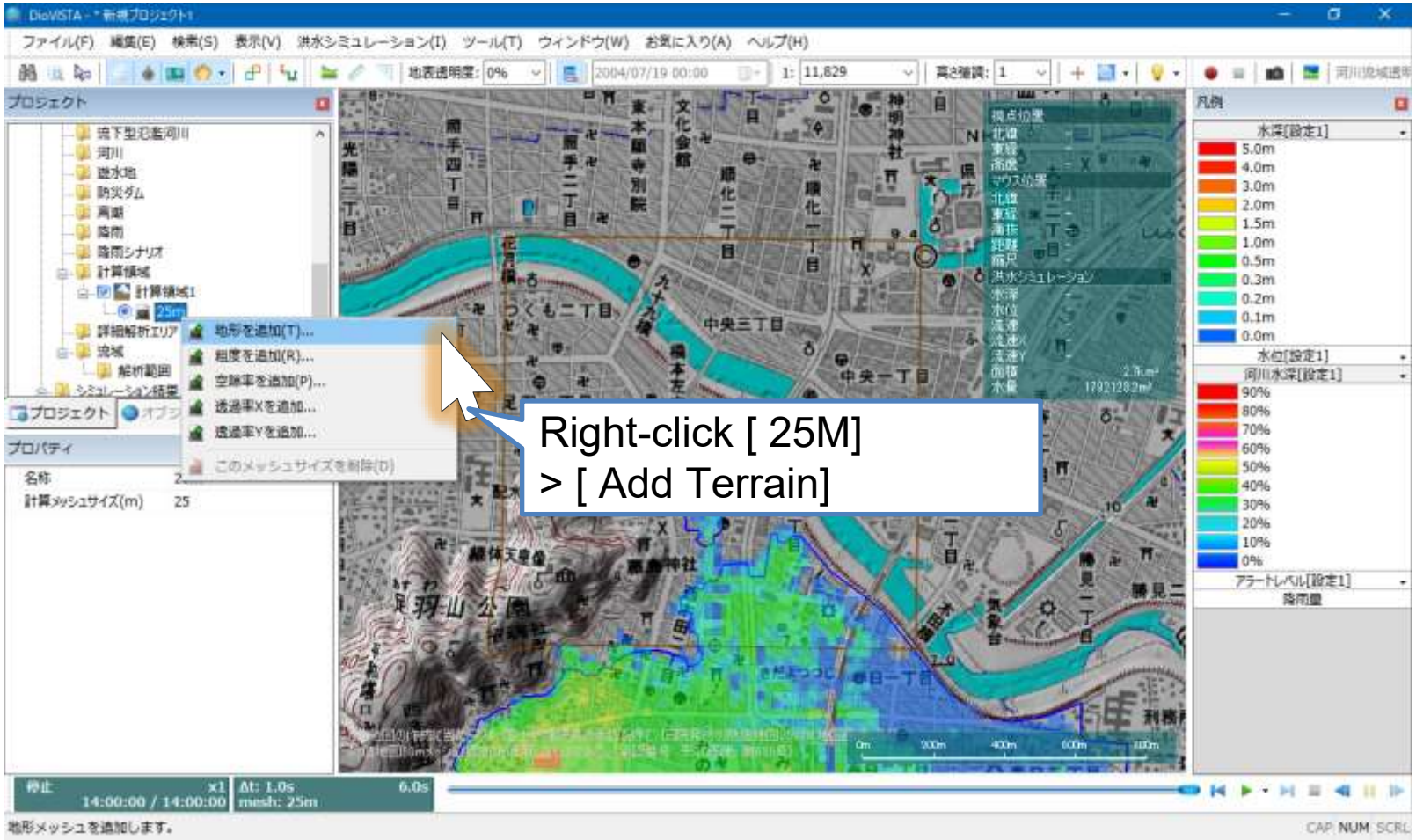
Ground Clearance Editing (3)



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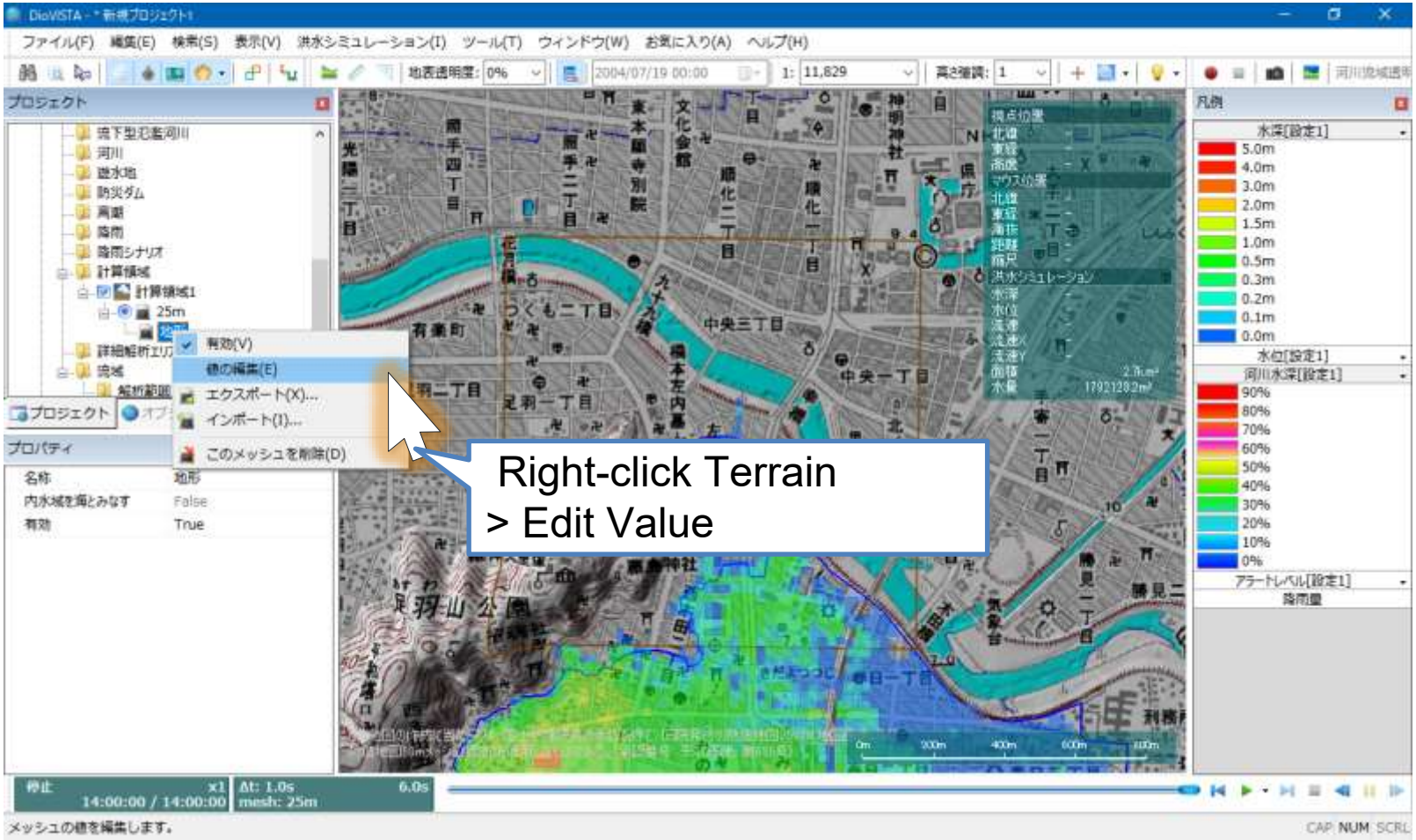
Ground Clearance Editing (4)



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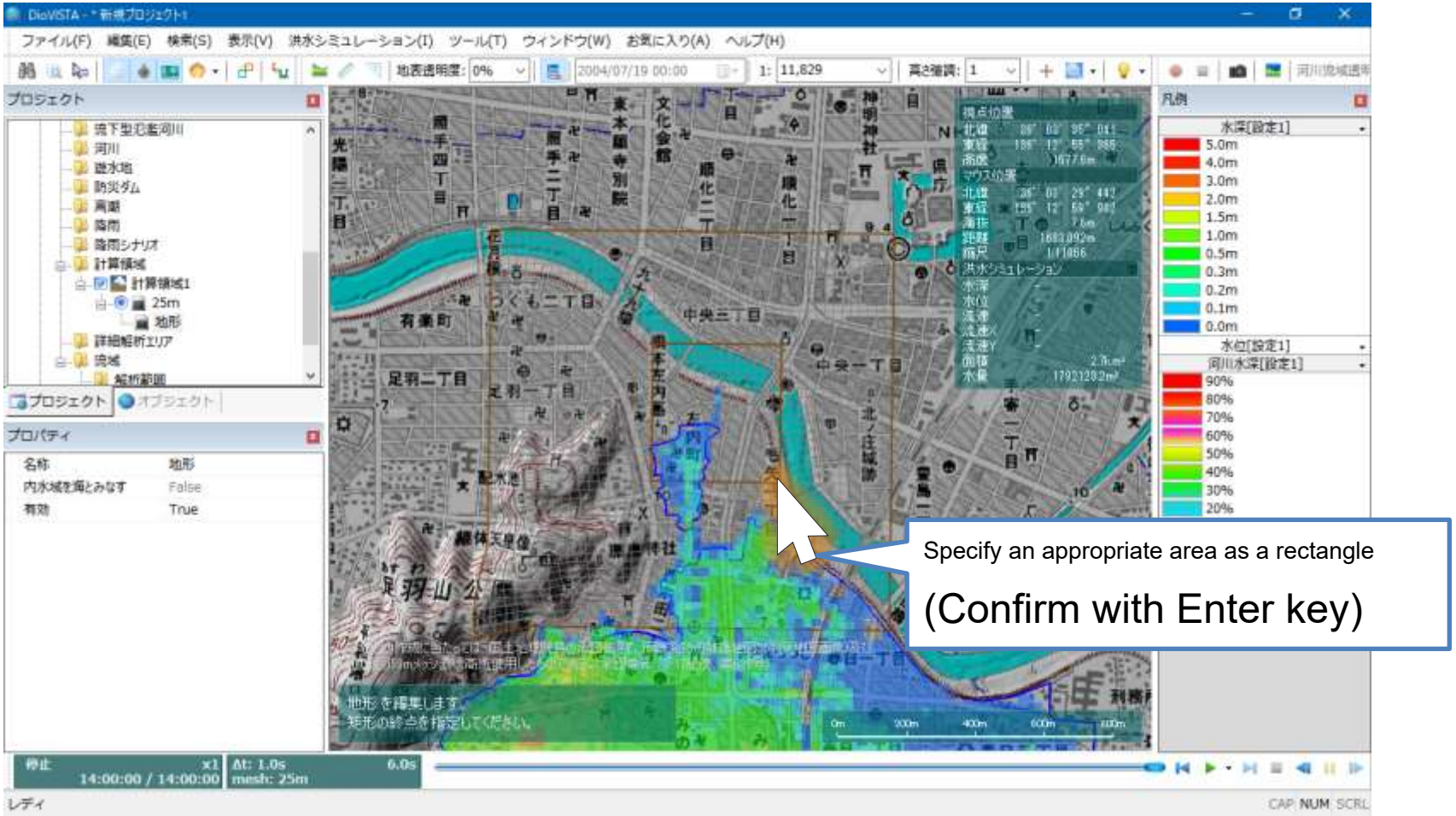
Ground Clearance Editing (5)



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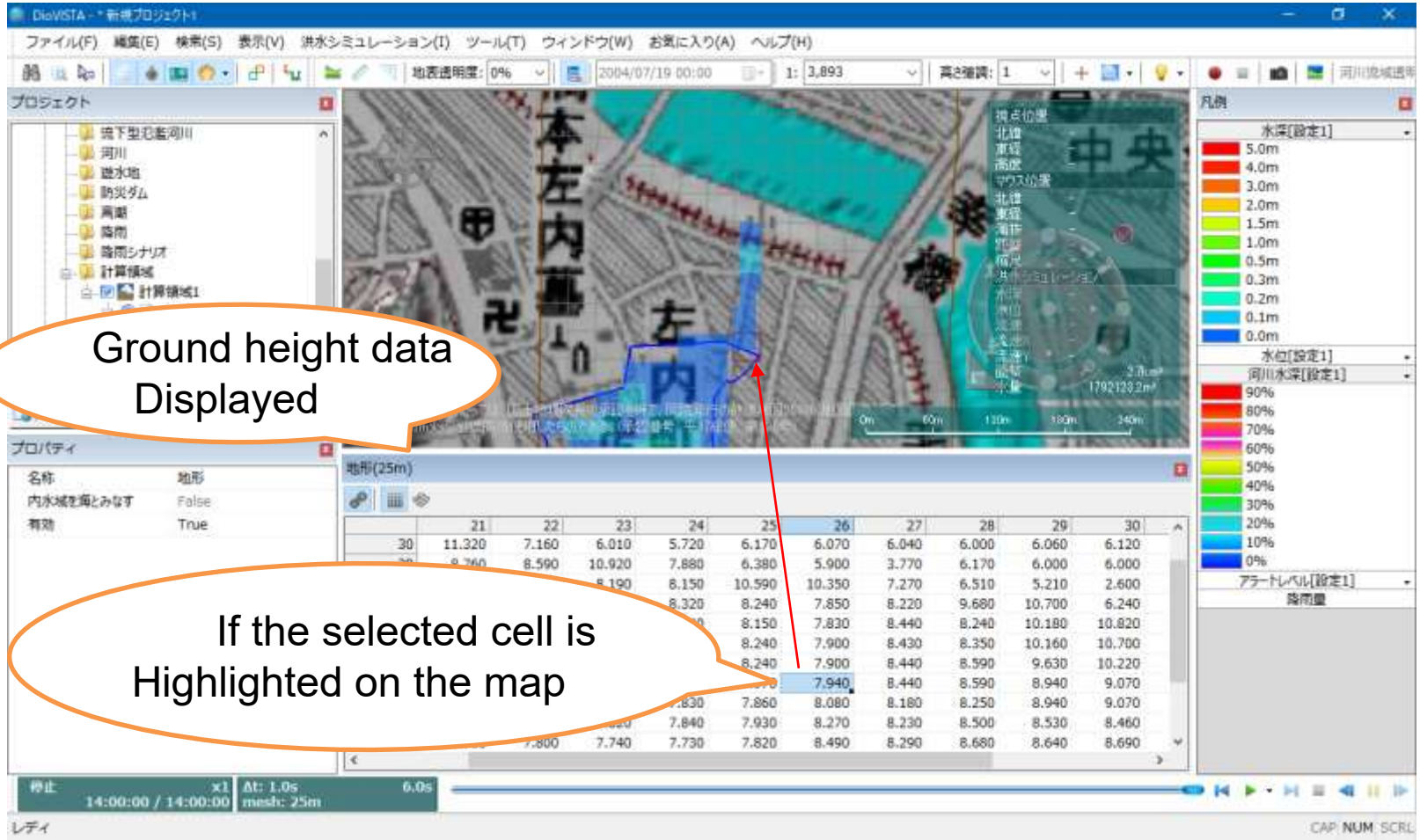
Ground Clearance Editing (6)



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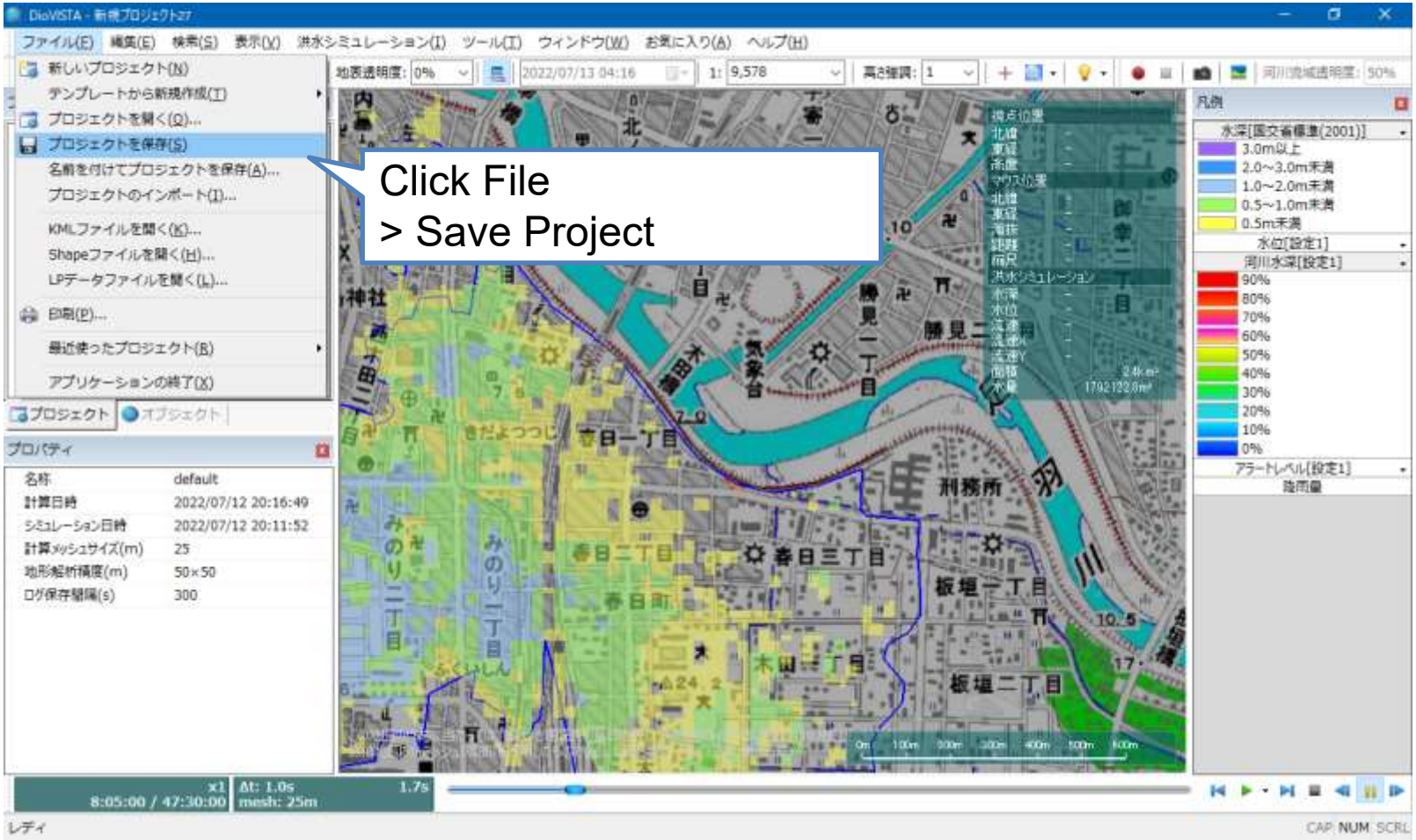
Save Project



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practice

HITACHI
Inspire the Next

1. Launch and map operation
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3. Practice: Analysis of the Tsurumi River
   - Capture river channel data
   - Setting levee breaking conditions
   - 25m mesh flood calculation
   - Creation of envelope diagrams
   - Preparation of deliverables in accordance with the guidelines
   - Creation of risk maps

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practice

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   - Creation of risk maps

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Where the data is stored

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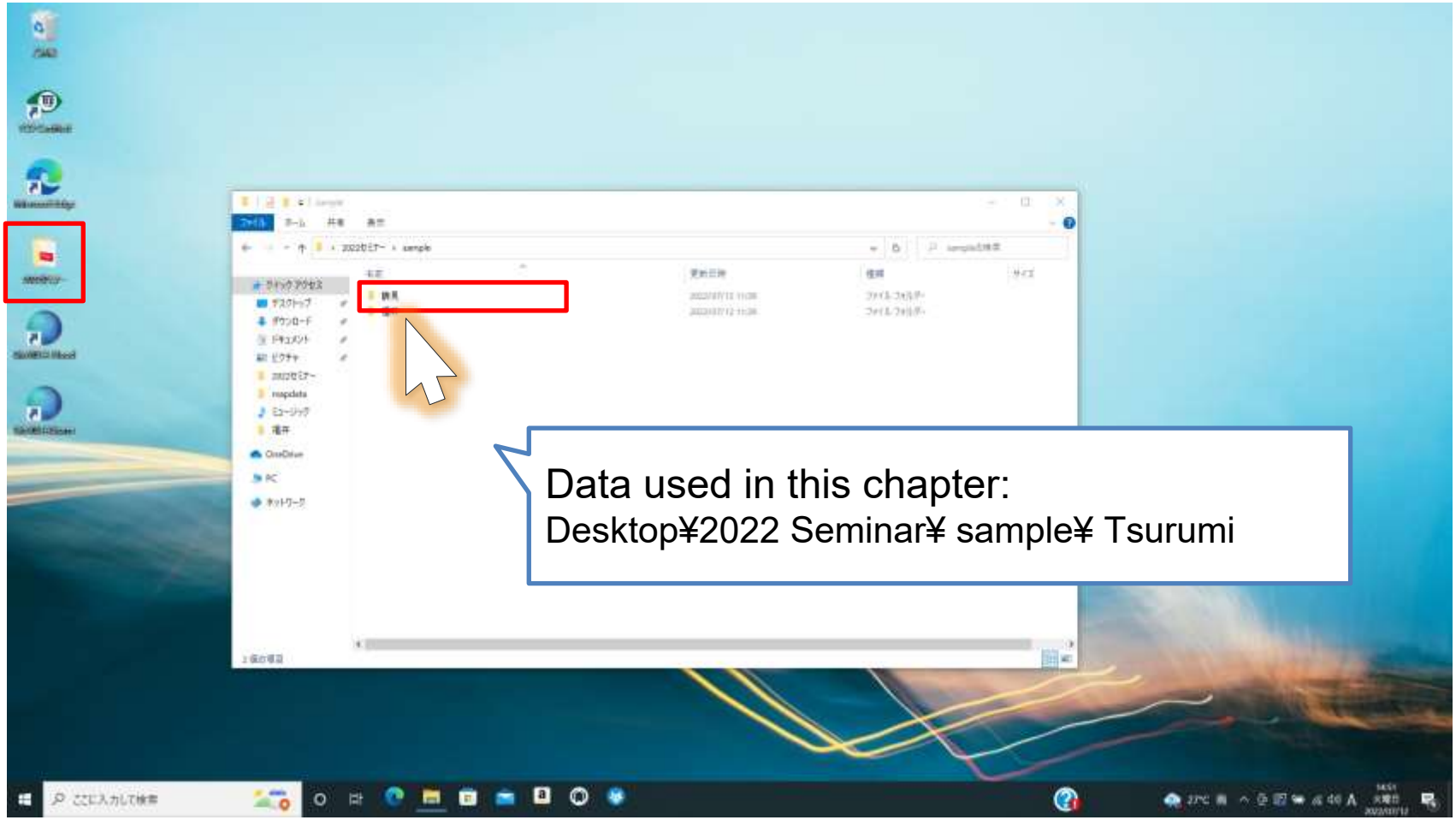

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River Data Capture (1)

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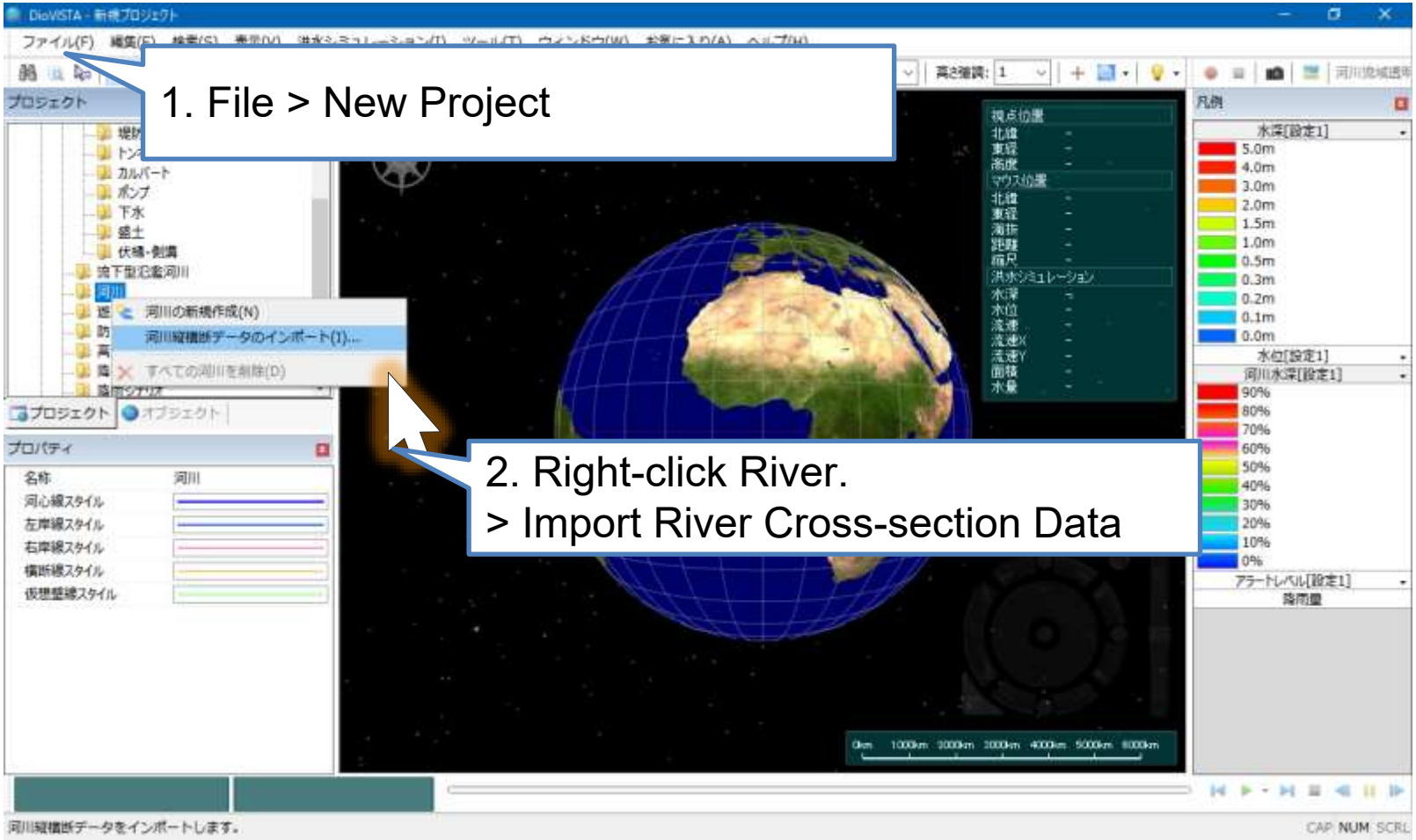

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River Data Capture (2)

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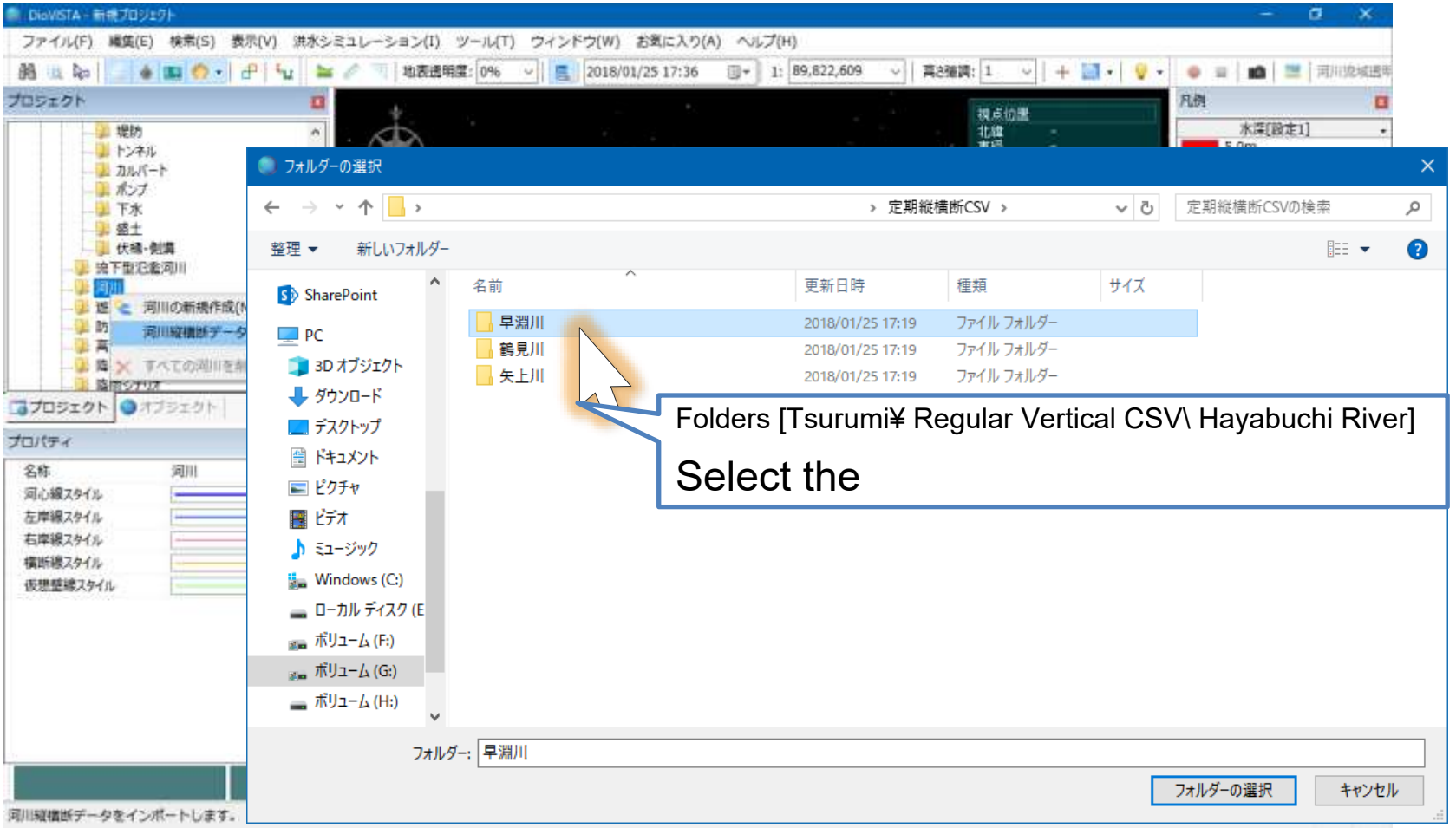

It supports cross-section data and distance marker data that conform to the "Guidelines for Creating Periodic River Crossing Data".
http://www.mlit.go.jp/river/shishin_guideline/kasen/gis/pdf_docs/juoudan/guideline0805.pdf

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River Data Capture (3)

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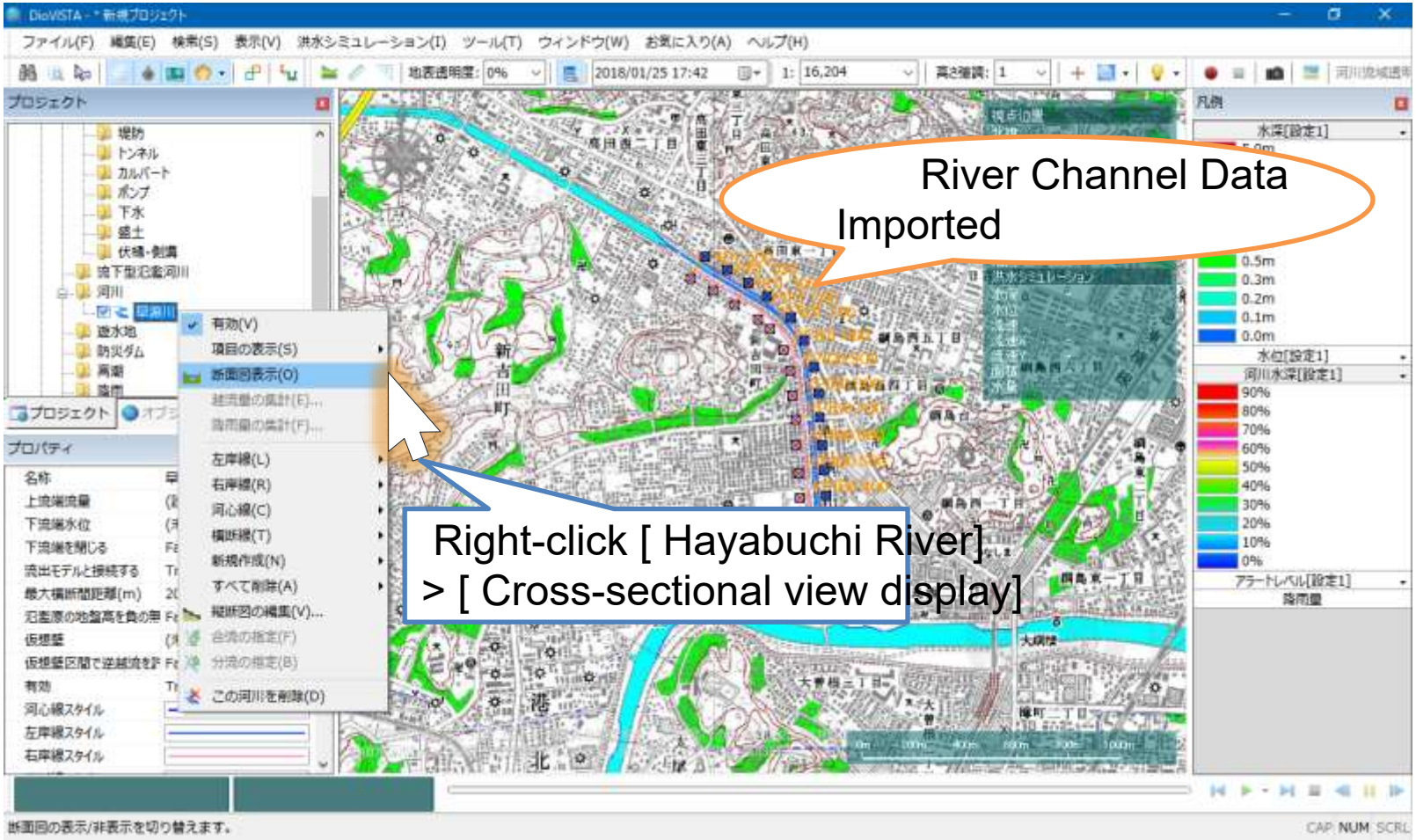

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River Data Capture (4)

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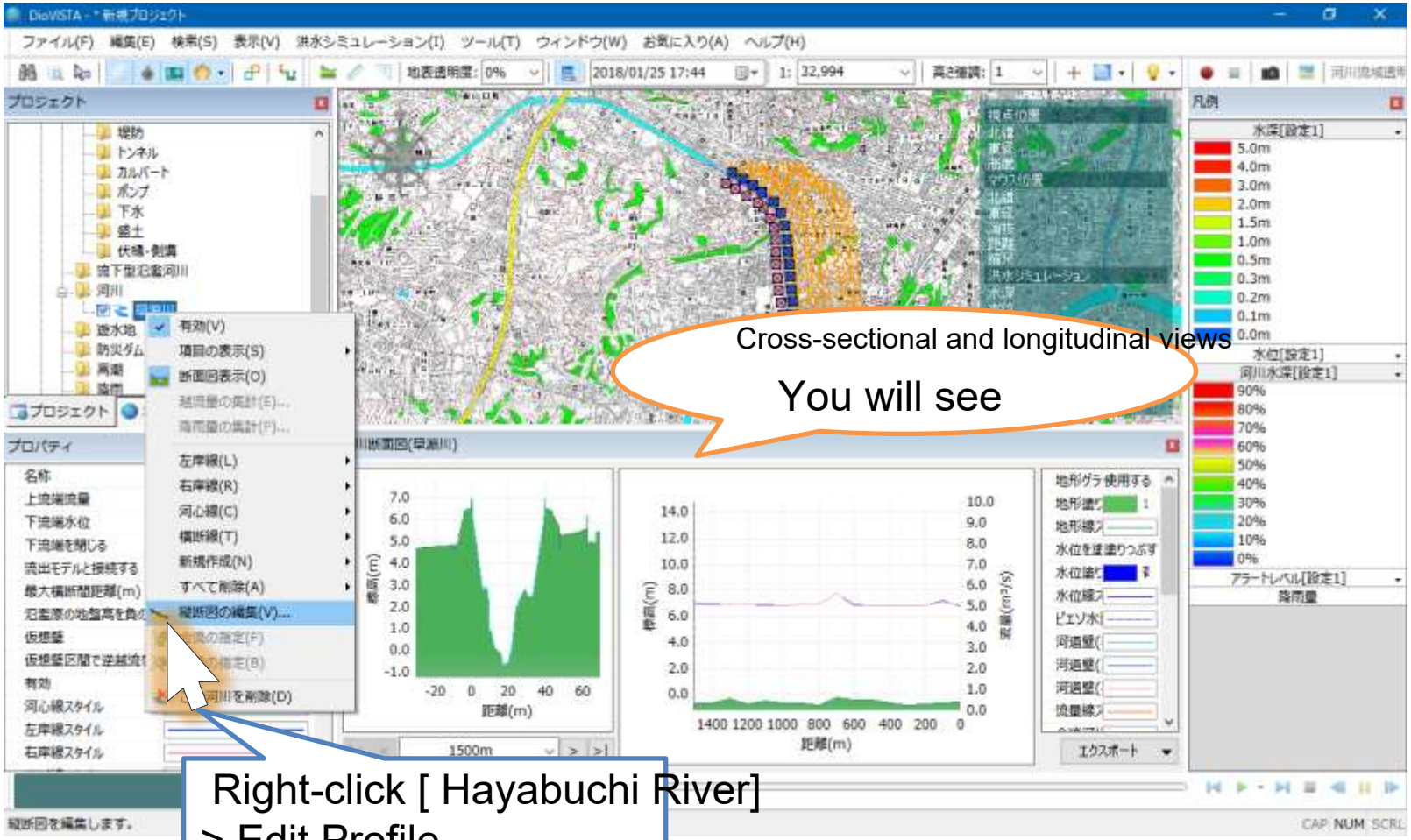

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Editing River Data (1)

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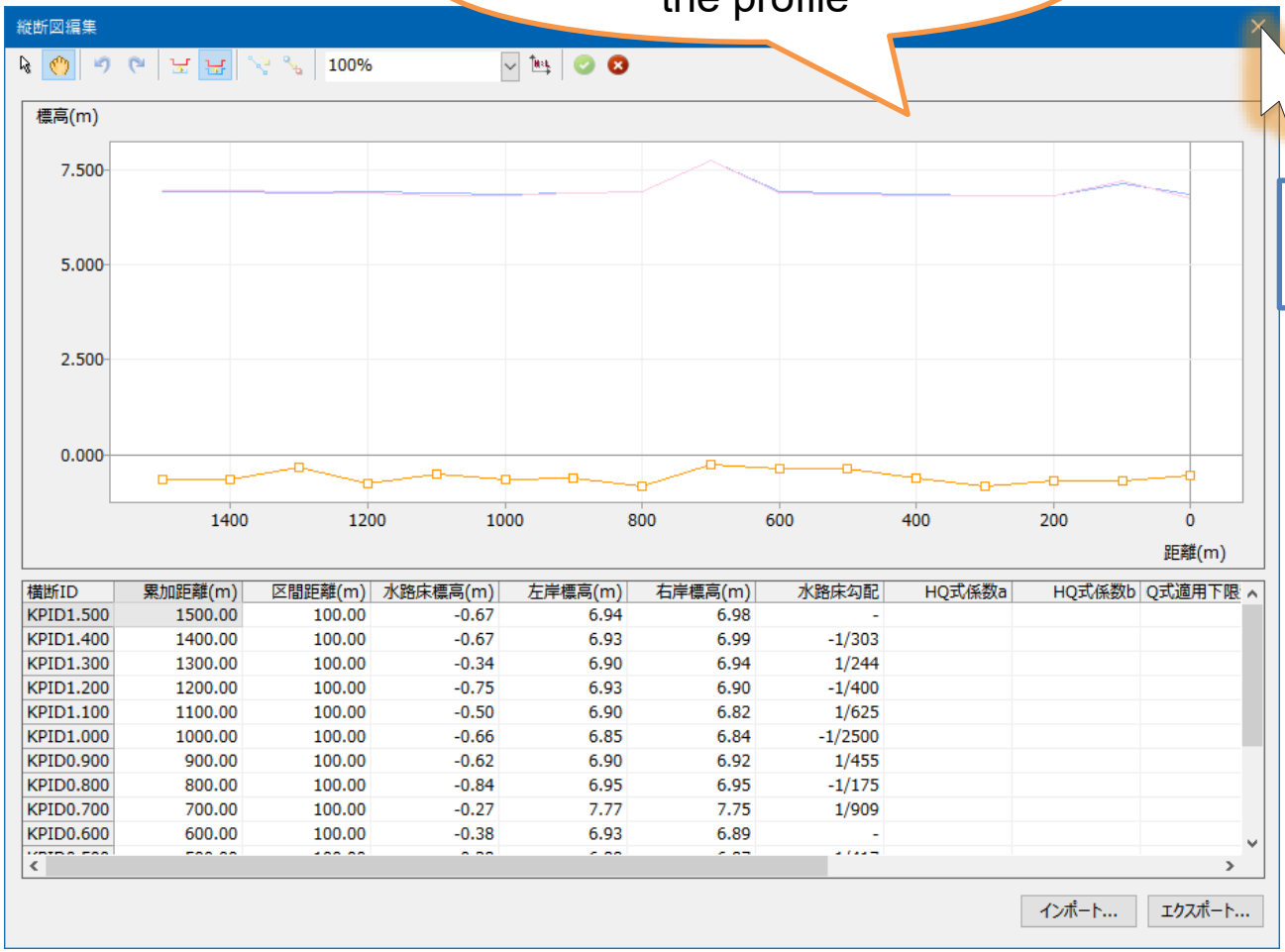
You can edit the profile



When confirmed, click Close

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Editing River Data (2)

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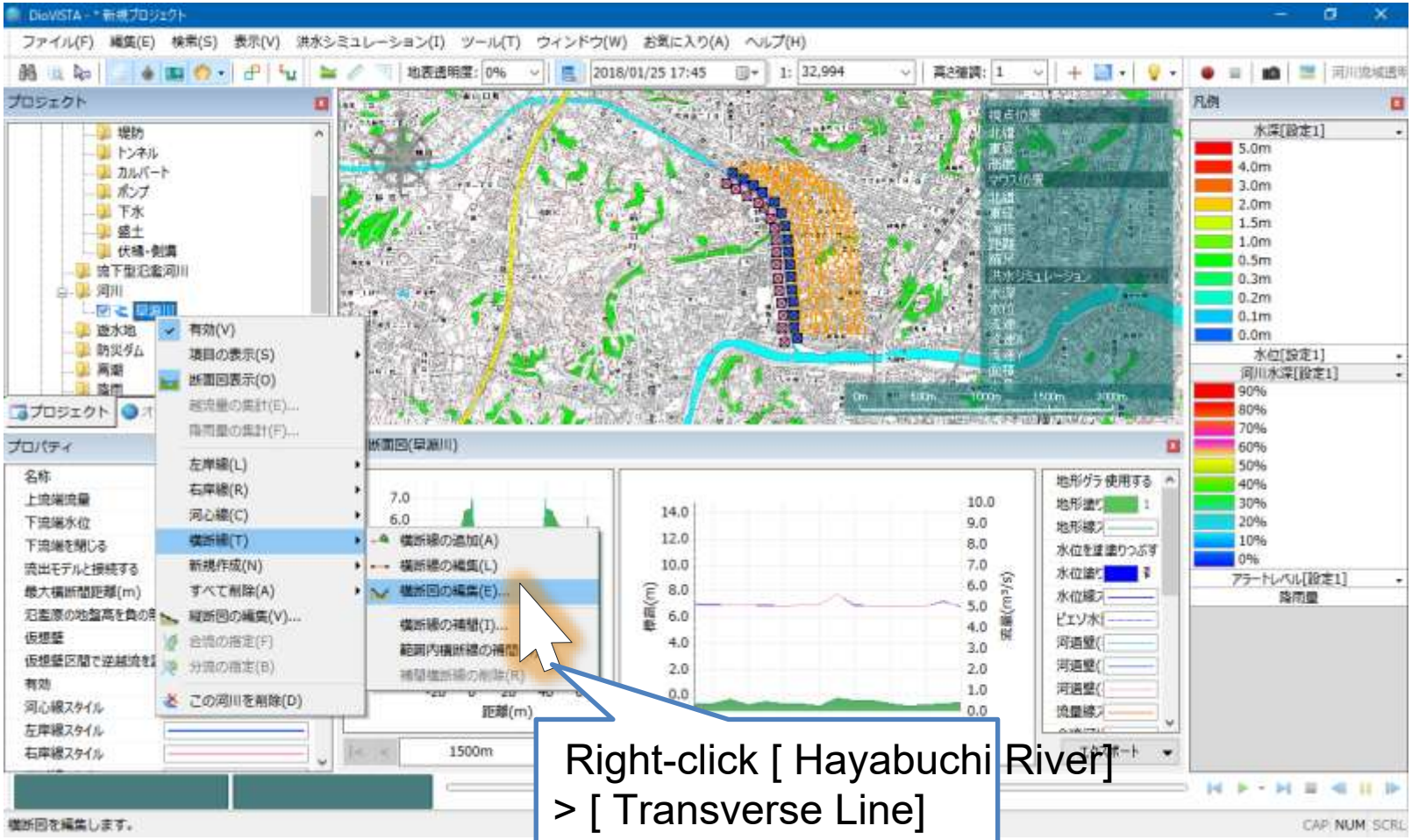

Right-click [Hayabuchi River]
> [Transverse Line]
> [Edit Cross-section map]

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Editing River Data (3)

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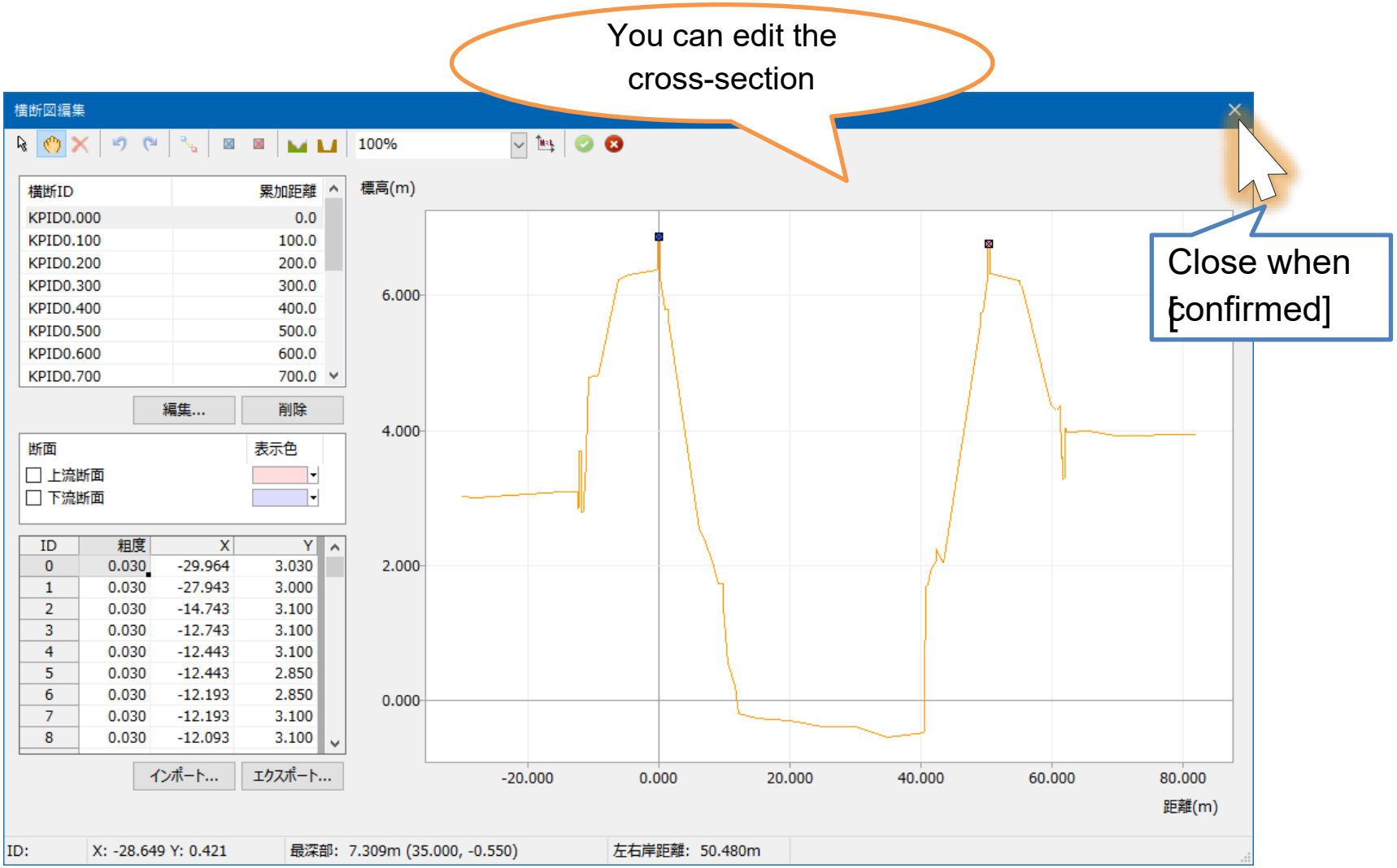

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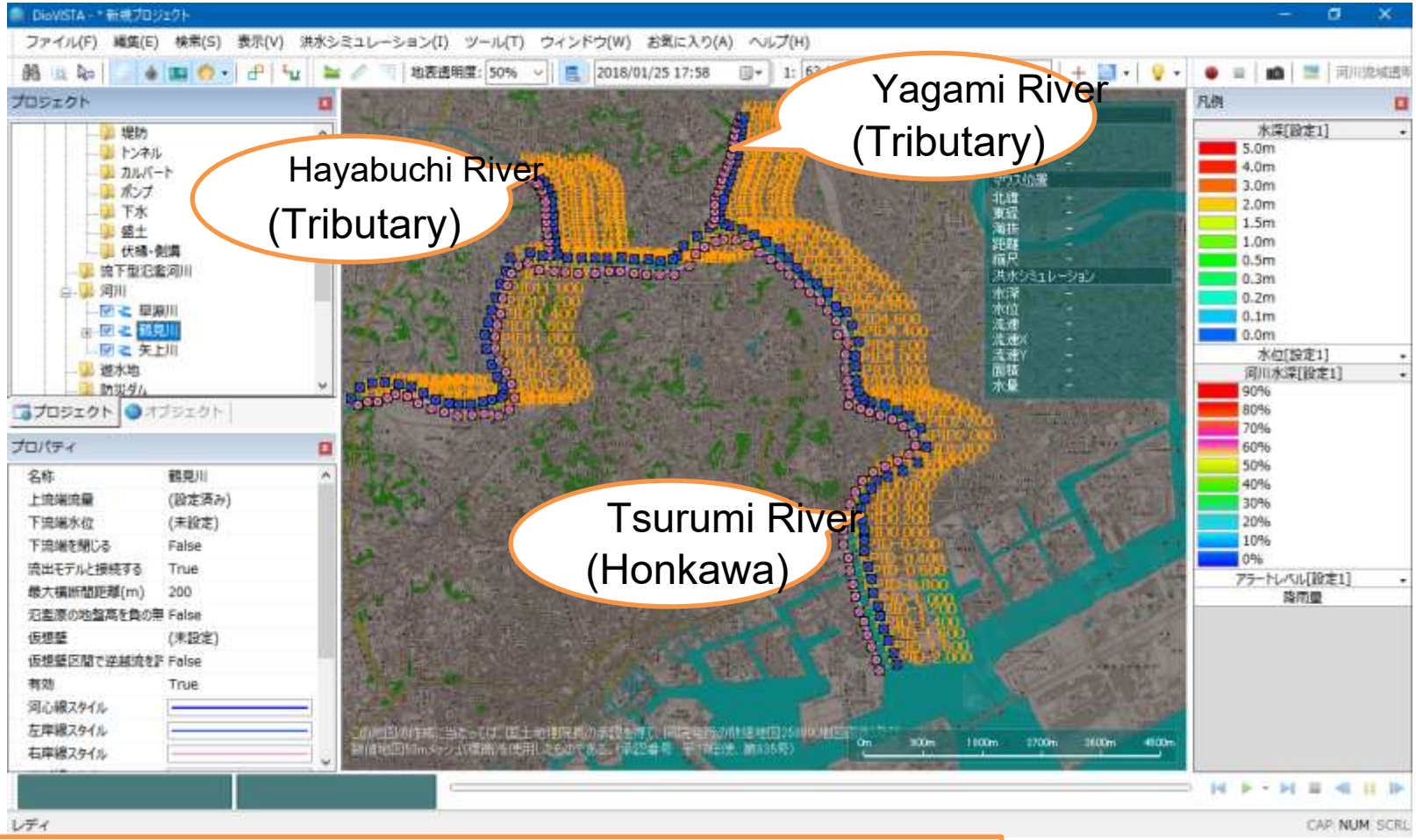
Ingest river data

HITACHI
Inspire the Next



In the same way, the Tsurumi River and Yagami River are incorporated.

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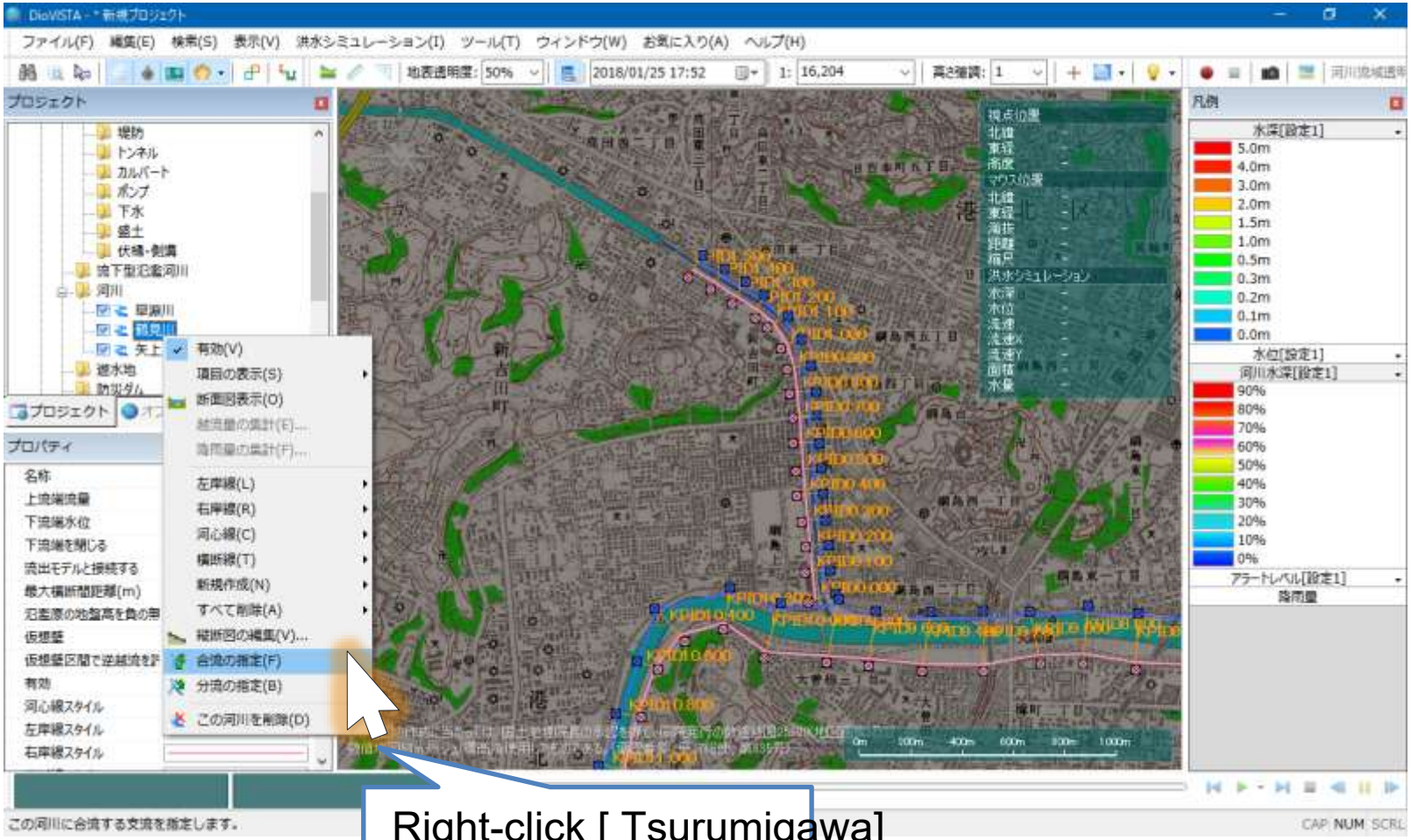
Setting up river confluences (1)



Right-click [Tsurumigawa]
> [Confluence Settings]

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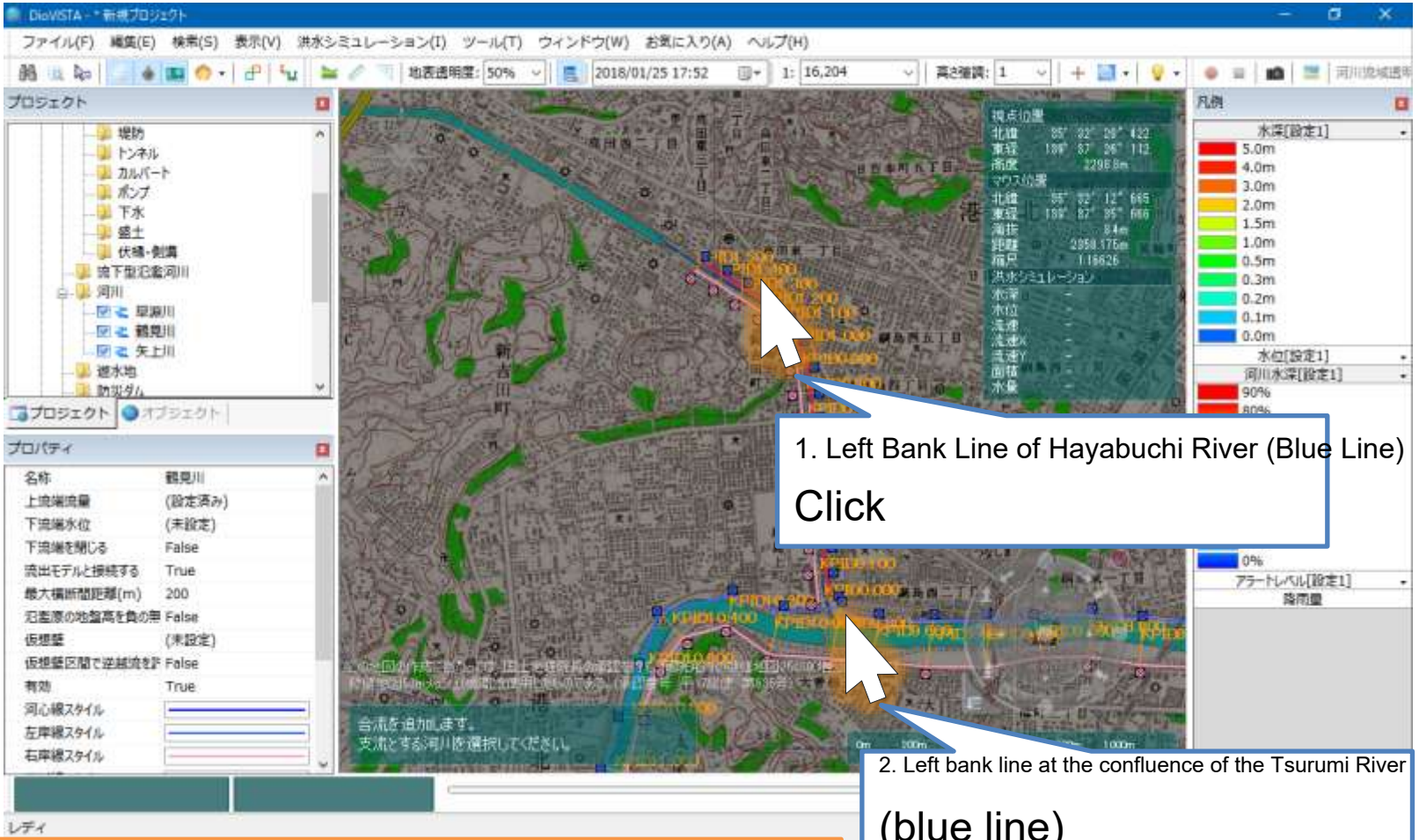
Setting up river confluences (2)



Since the Hayabuchi River flows in from the left bank of the Tsurumi River, the left bank of the Hayabuchi River and the left bank of the Tsurumi River are connected.

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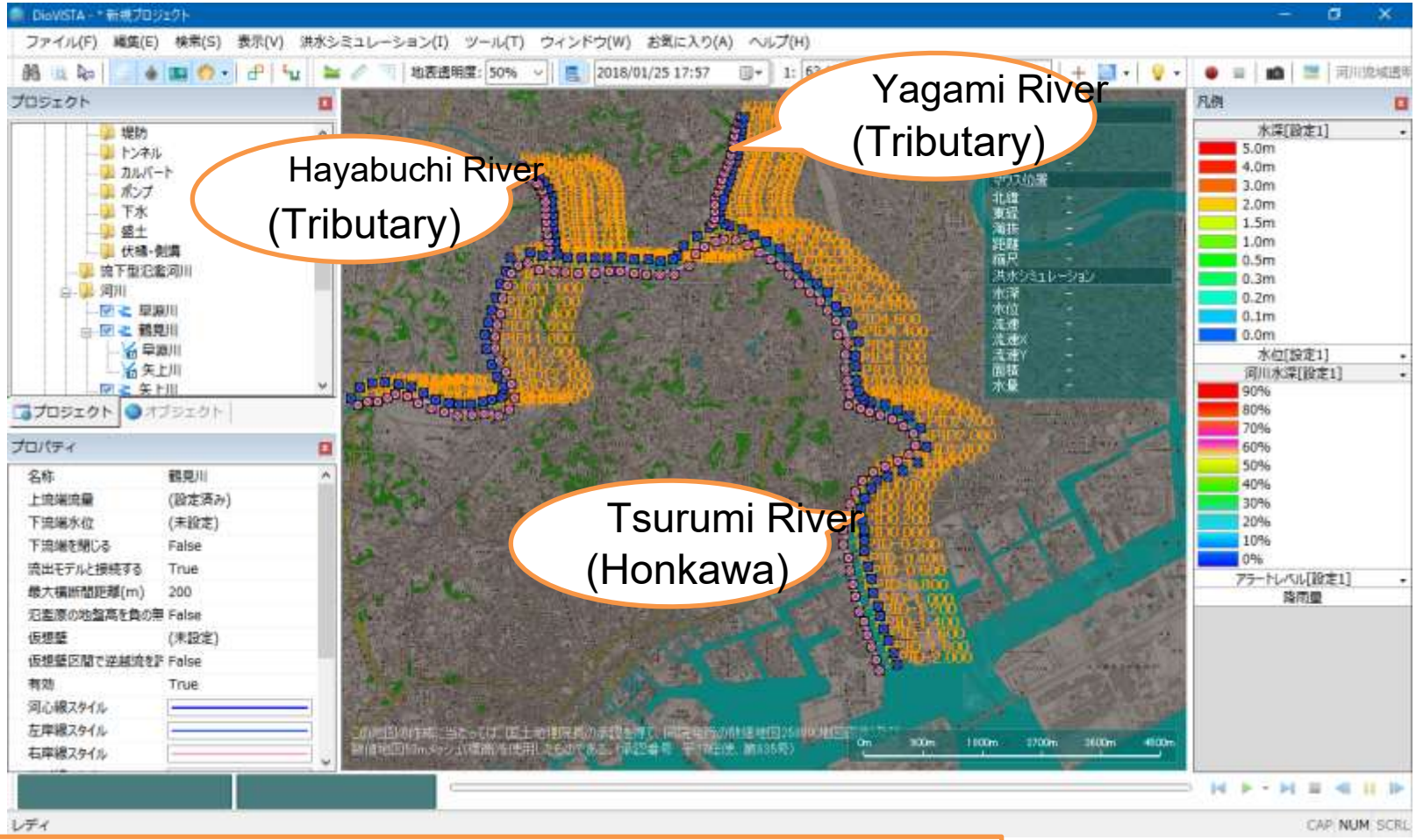
Setting up river confluences (3)



In the same way, the Tsurumi River and the Yagami River are merged.

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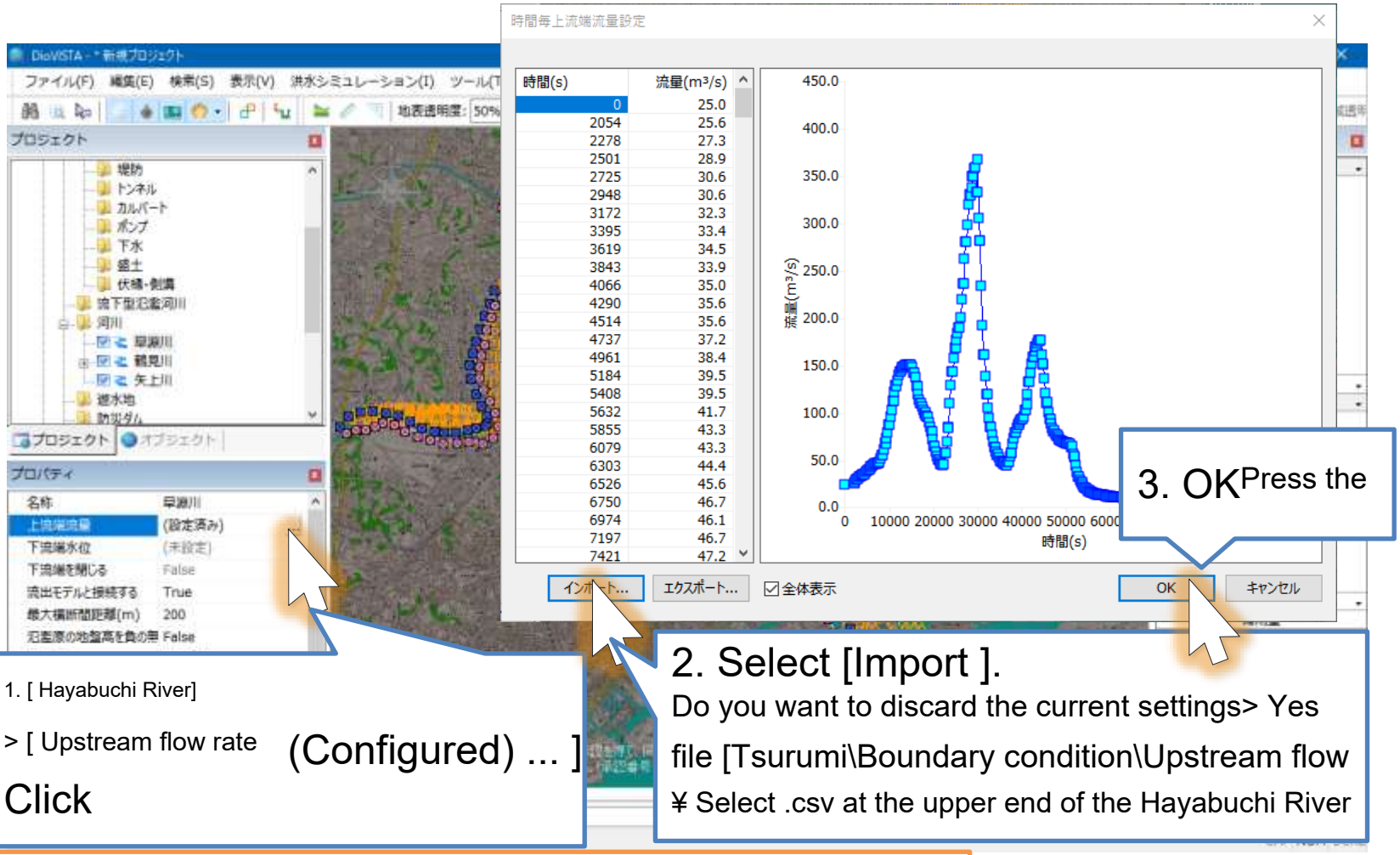
Setting the Upstream Flow Rate



1. [Hayabuchi River]

> [Upstream flow rate (Configured) ...]

Click

2. Select [Import].

Do you want to discard the current settings> Yes

file [Tsurumi\Boundary condition\Upstream flow ¥ Select .csv at the upper end of the Hayabuchi River

3. OKPress the

A similar procedure is used to specify the upstream flow rate of the Tsurumi and Yagami rivers.

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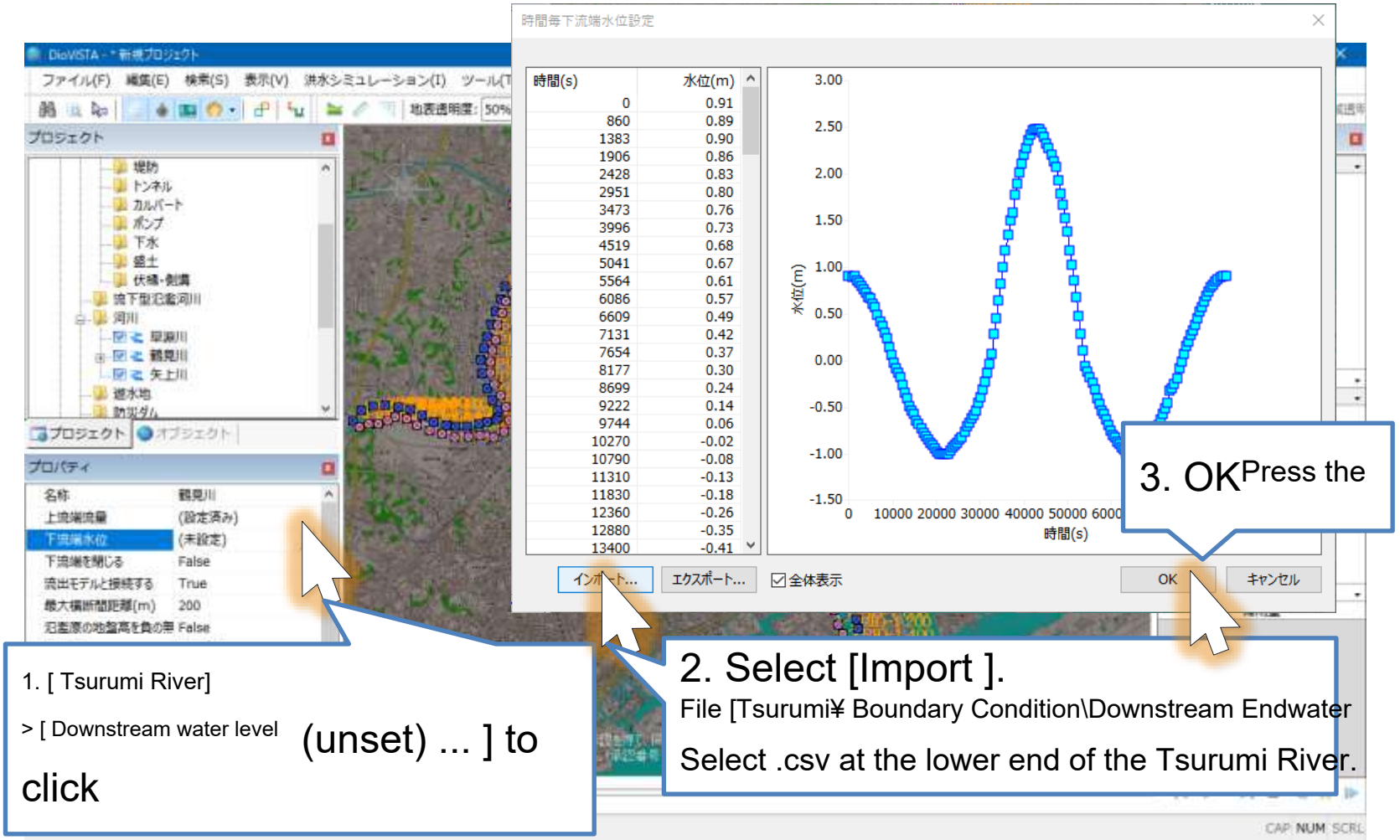
Setting the Downstream Water Level



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Setting the lateral inflow amount (1)

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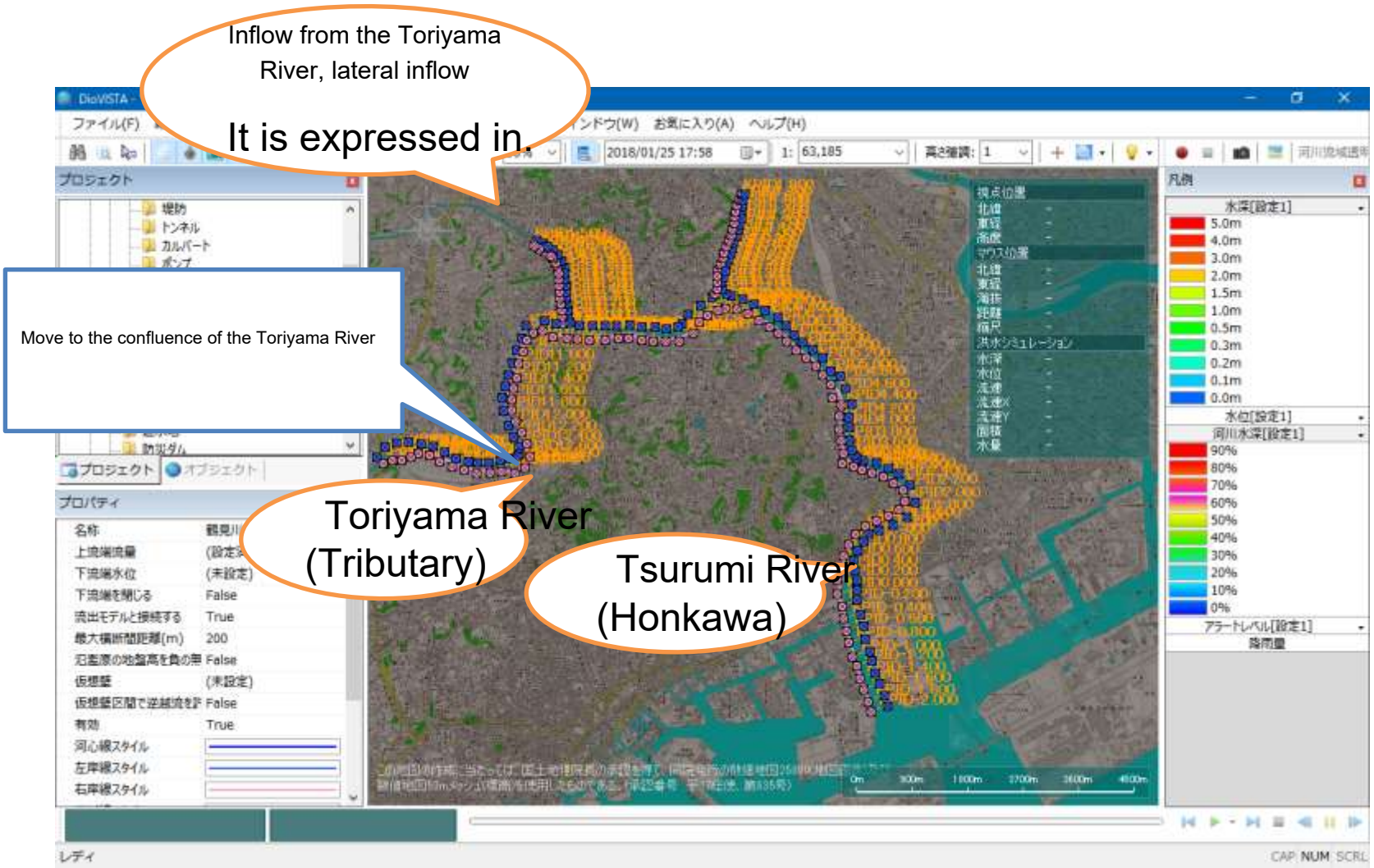

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Setting the lateral inflow amount (2)

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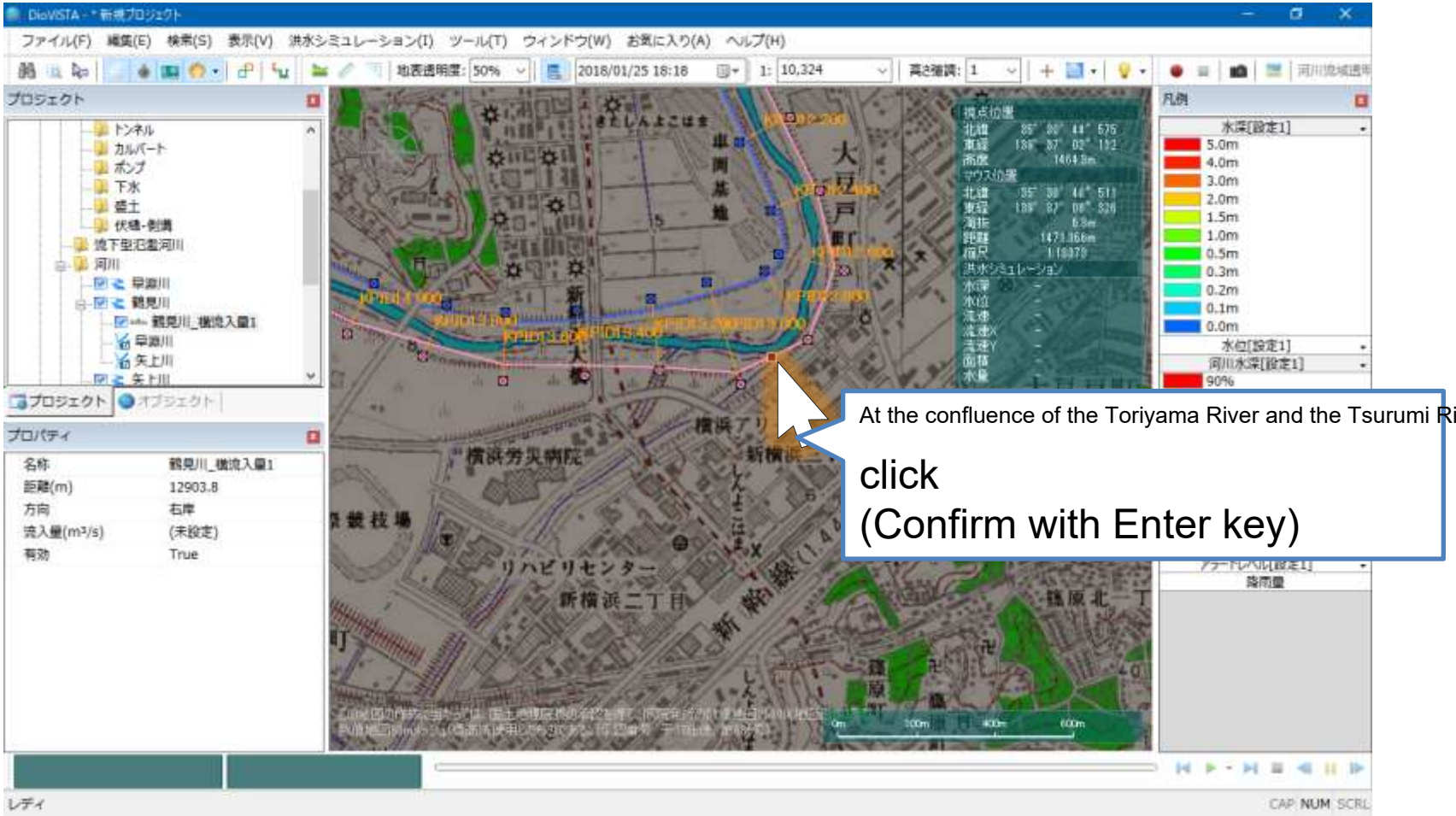
Setting the lateral inflow amount (3)



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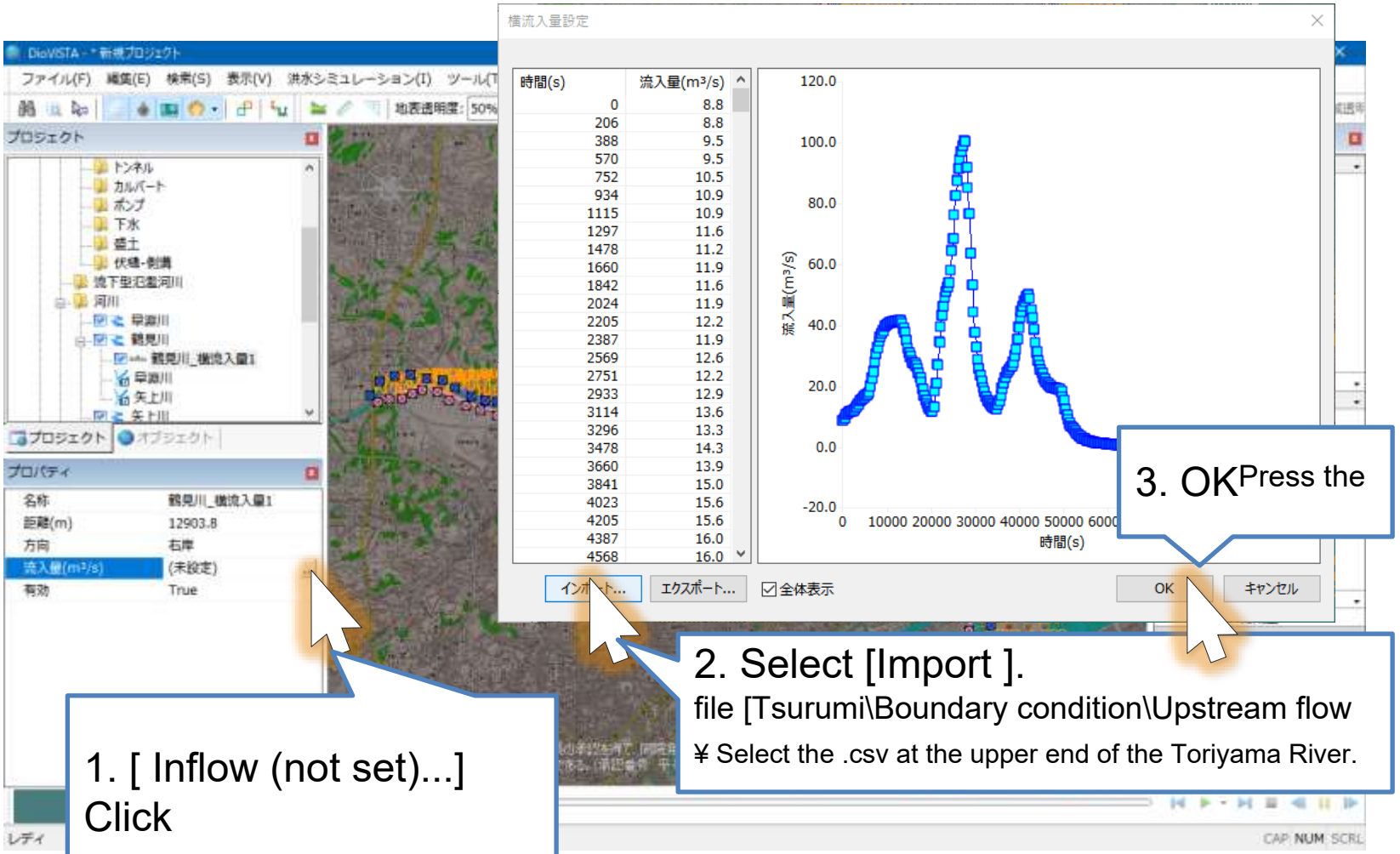
Setting the lateral inflow amount (4)



1. [Inflow (not set)...]
Click

2. Select [Import].
file [Tsurumi\Boundary condition\Upstream flow
¥ Select the .csv at the upper end of the Toriyama River.

3. OKPress the

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Setting up a drainage basin (1)

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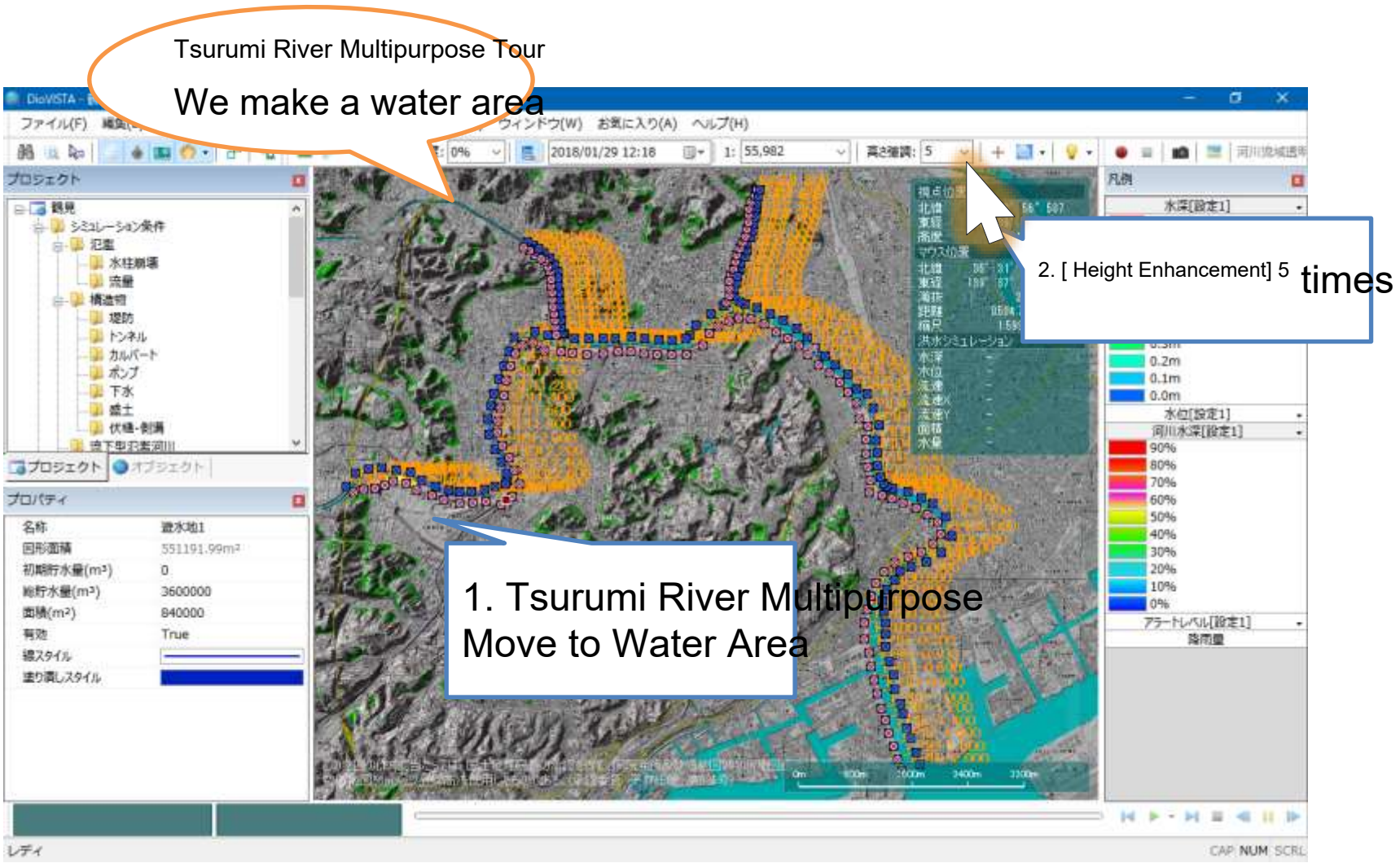

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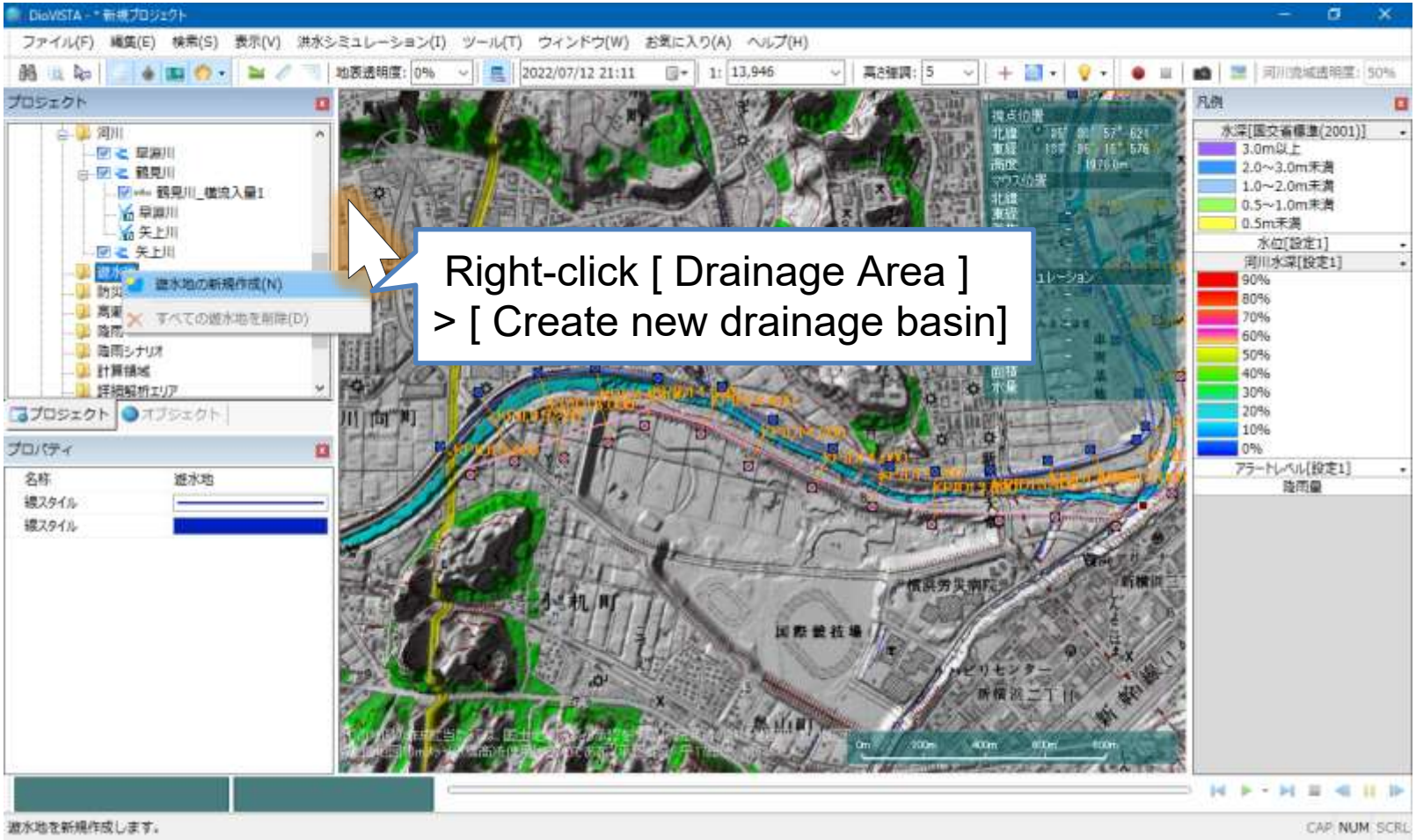
Setting up a drainage basin (2)



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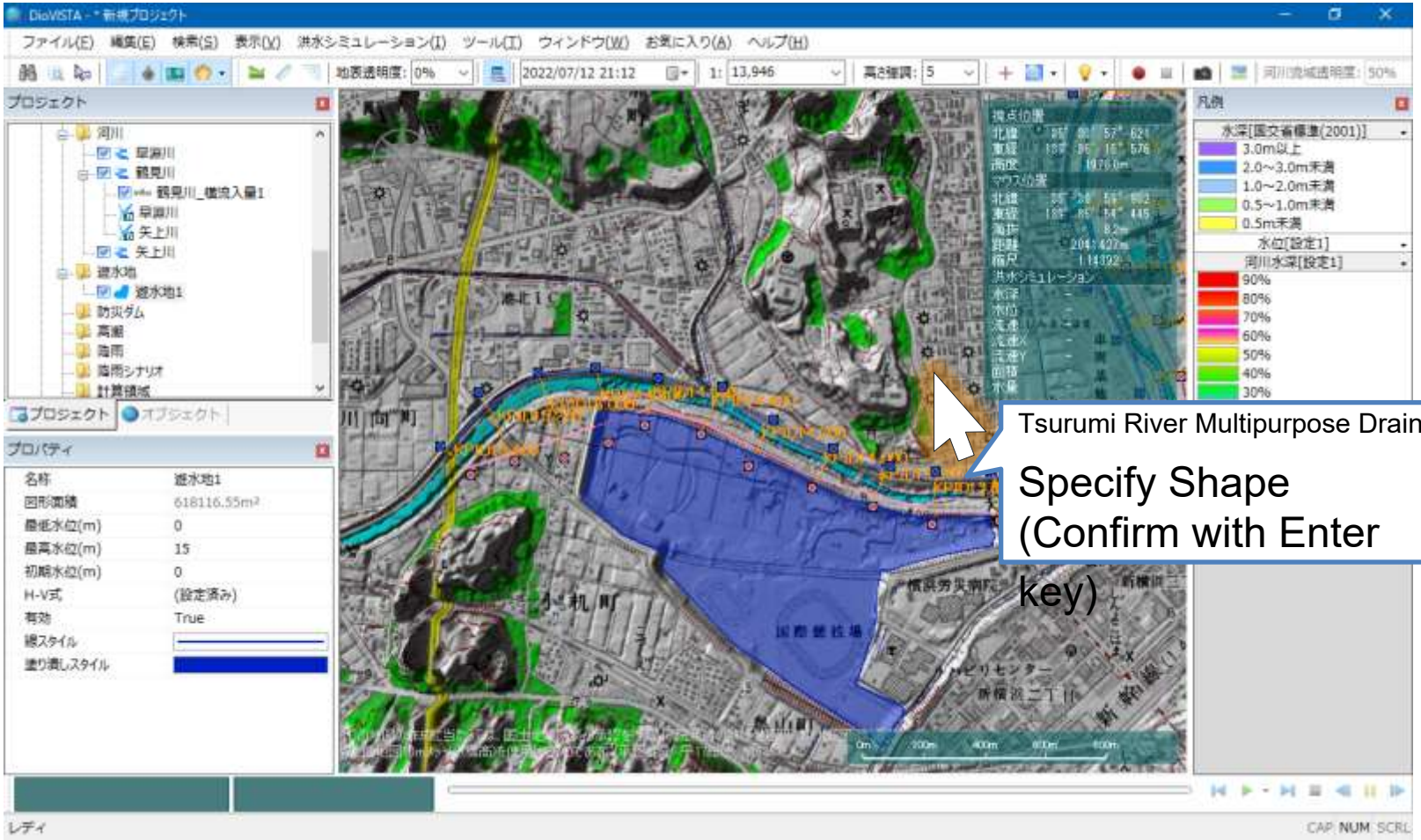
Setting up a drainage basin (3)



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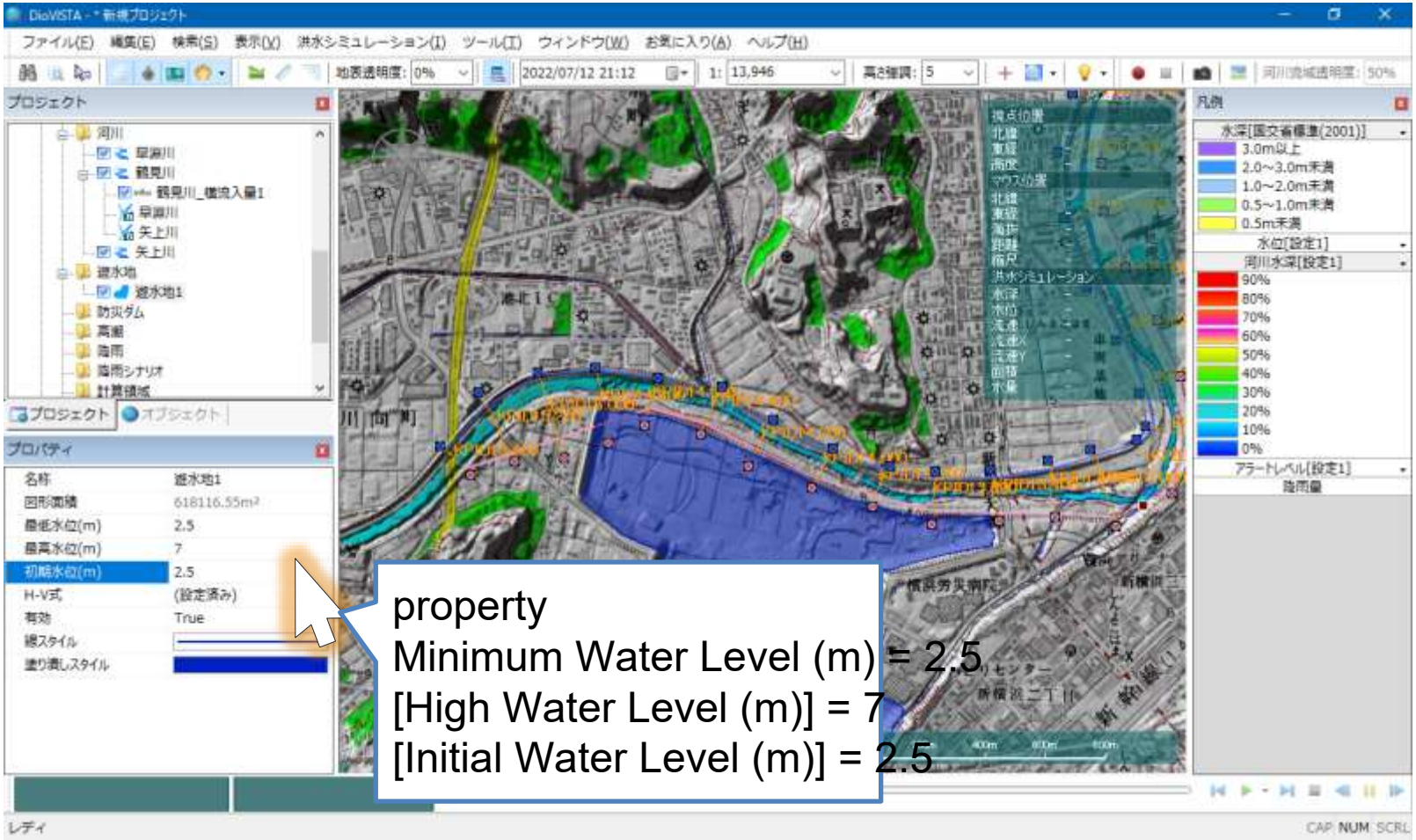
Setting up a drainage basin (4)



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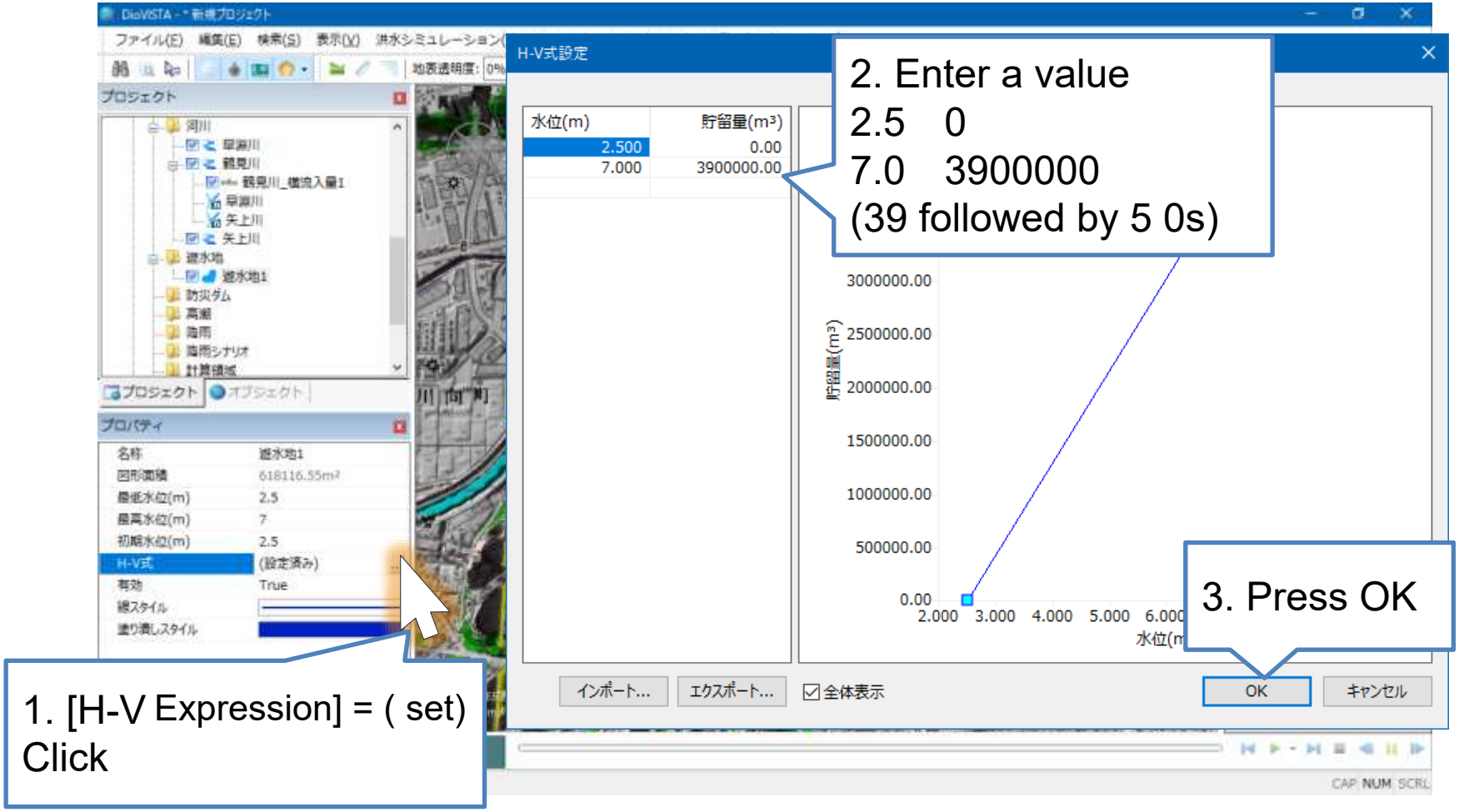
Setting up a drainage basin (5)



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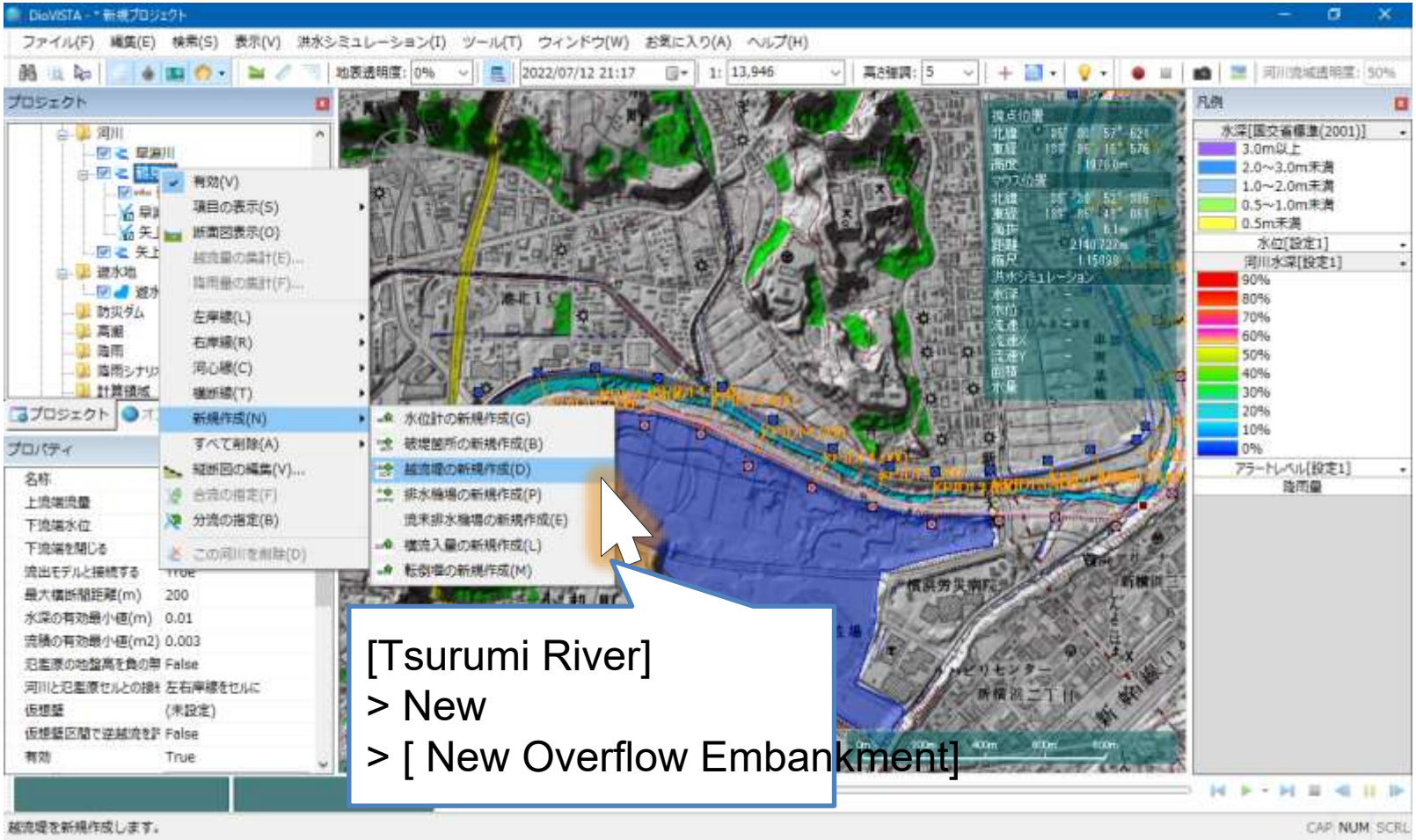
Setting up a drainage basin (6)



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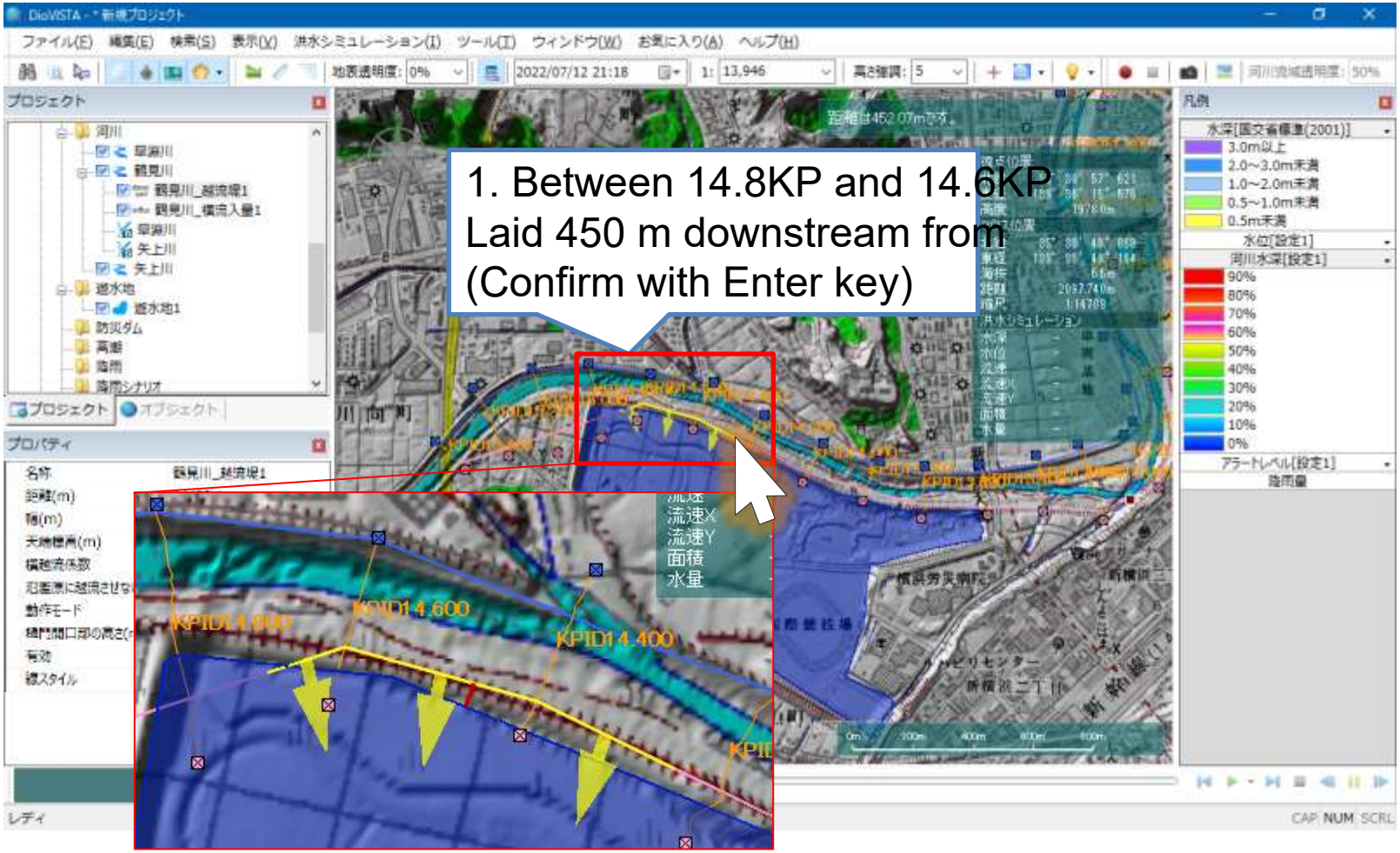
Setting up a drainage basin (7)



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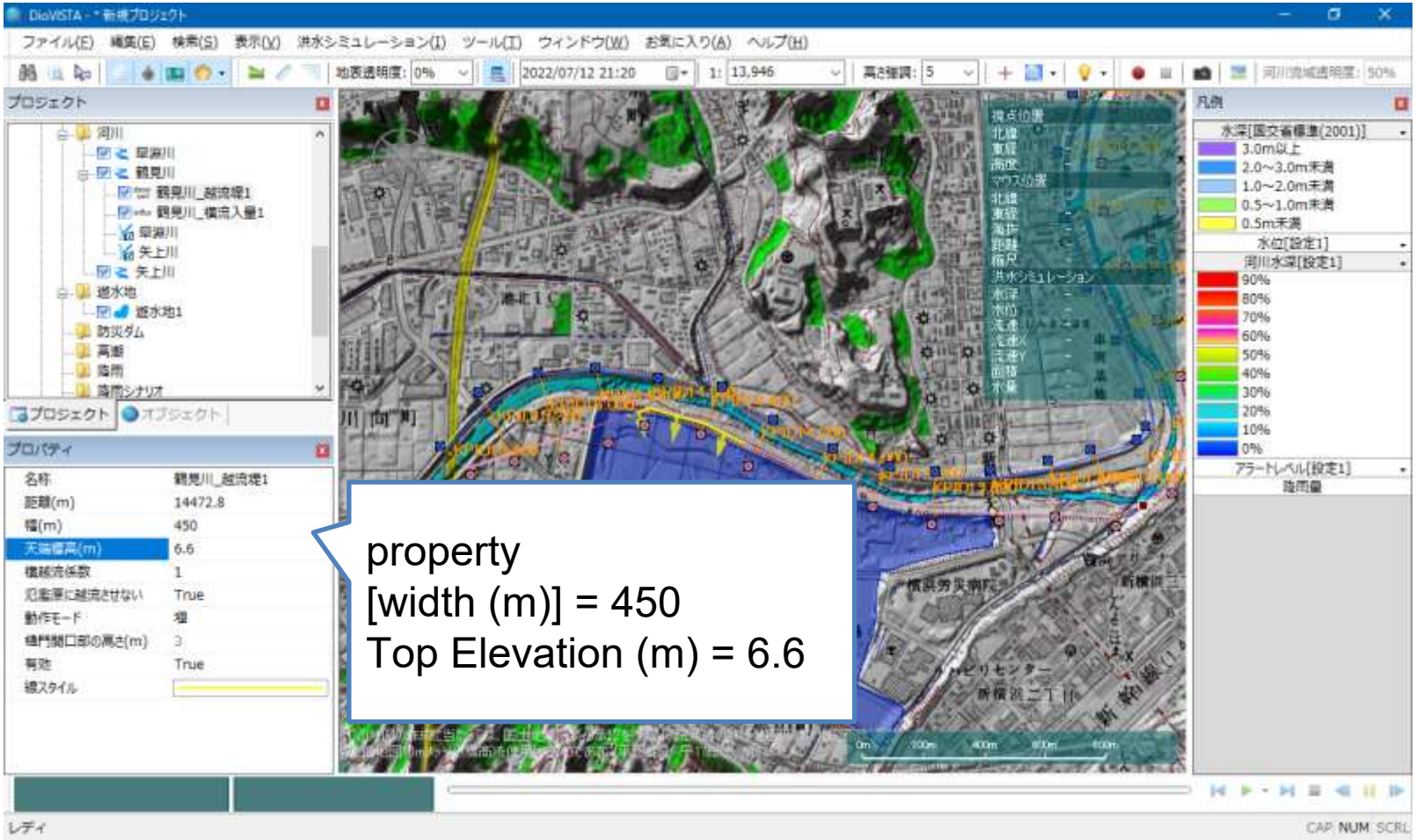

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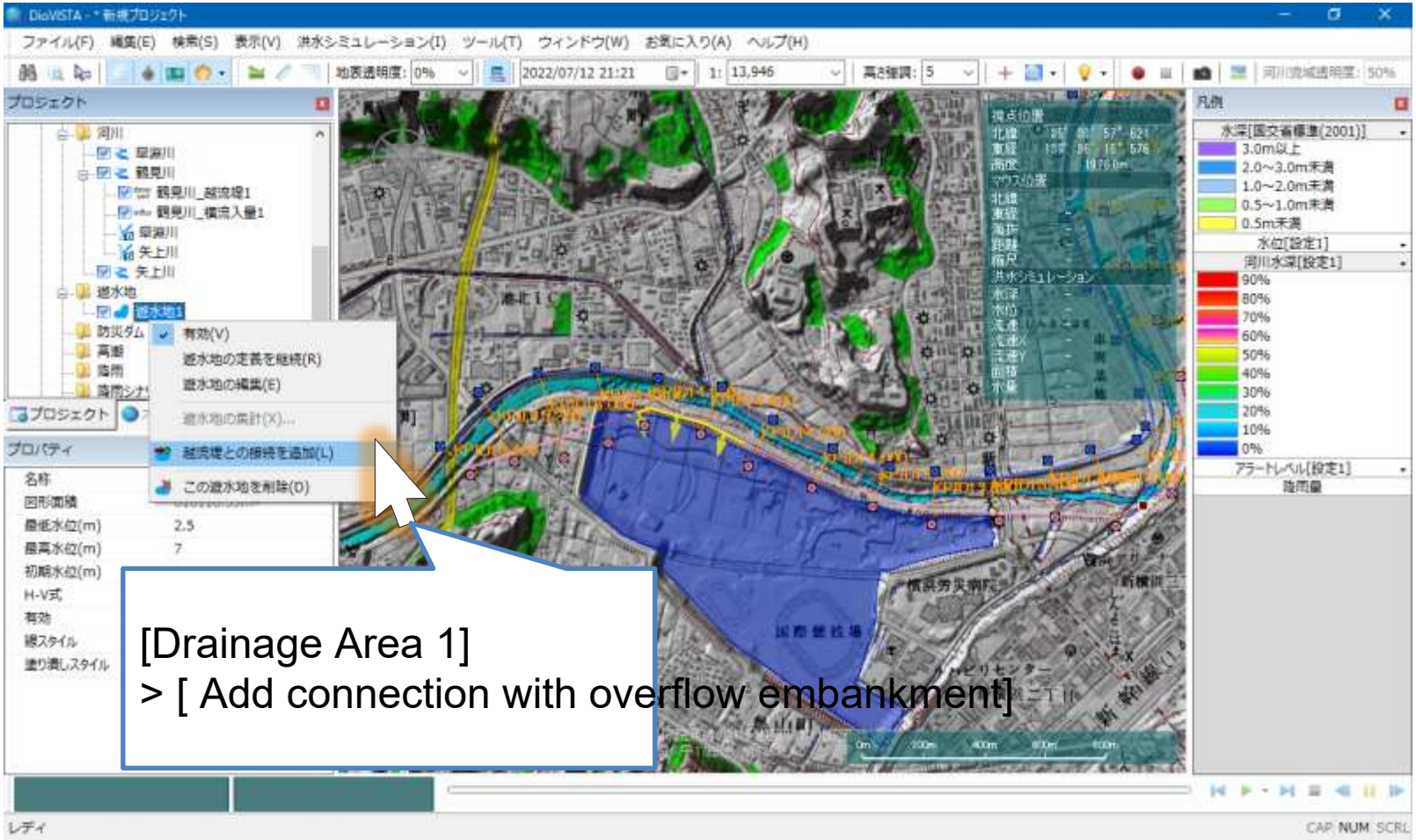
Setting up a drainage basin (7)



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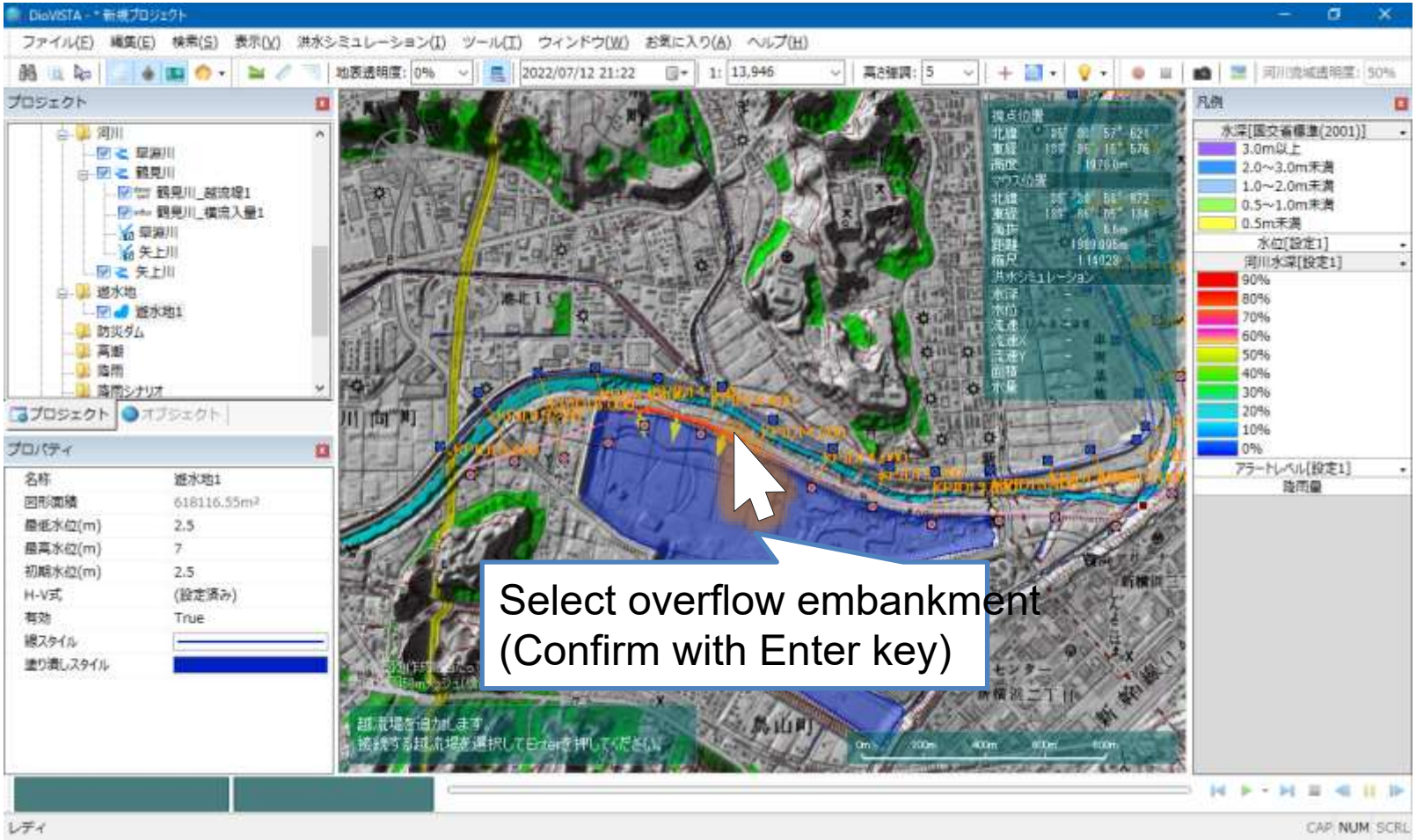
Drainage Area Settings (8)



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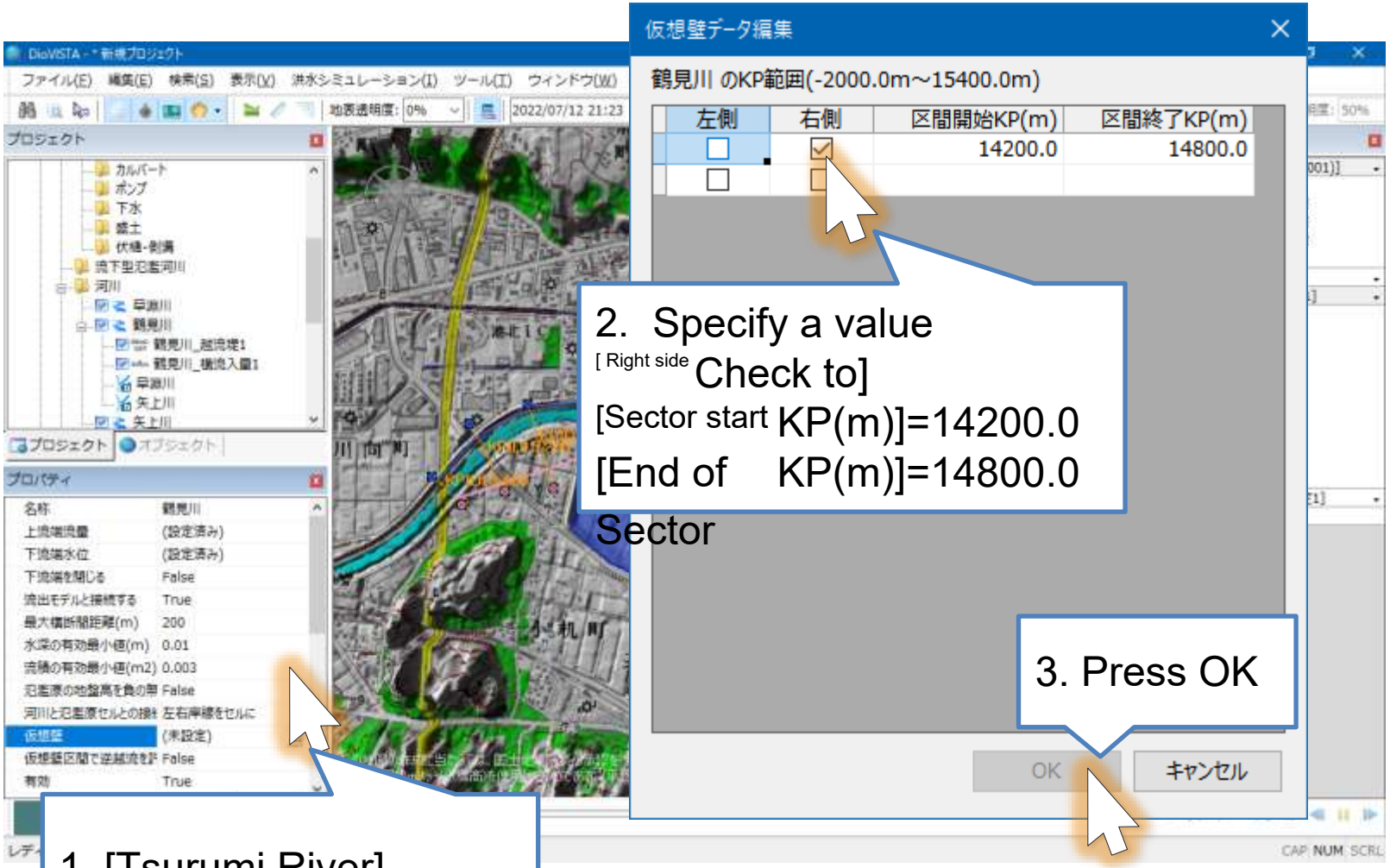
Drainage Area Settings (9)



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practice

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1. Launch and map operation
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Specify the breakage point (1)

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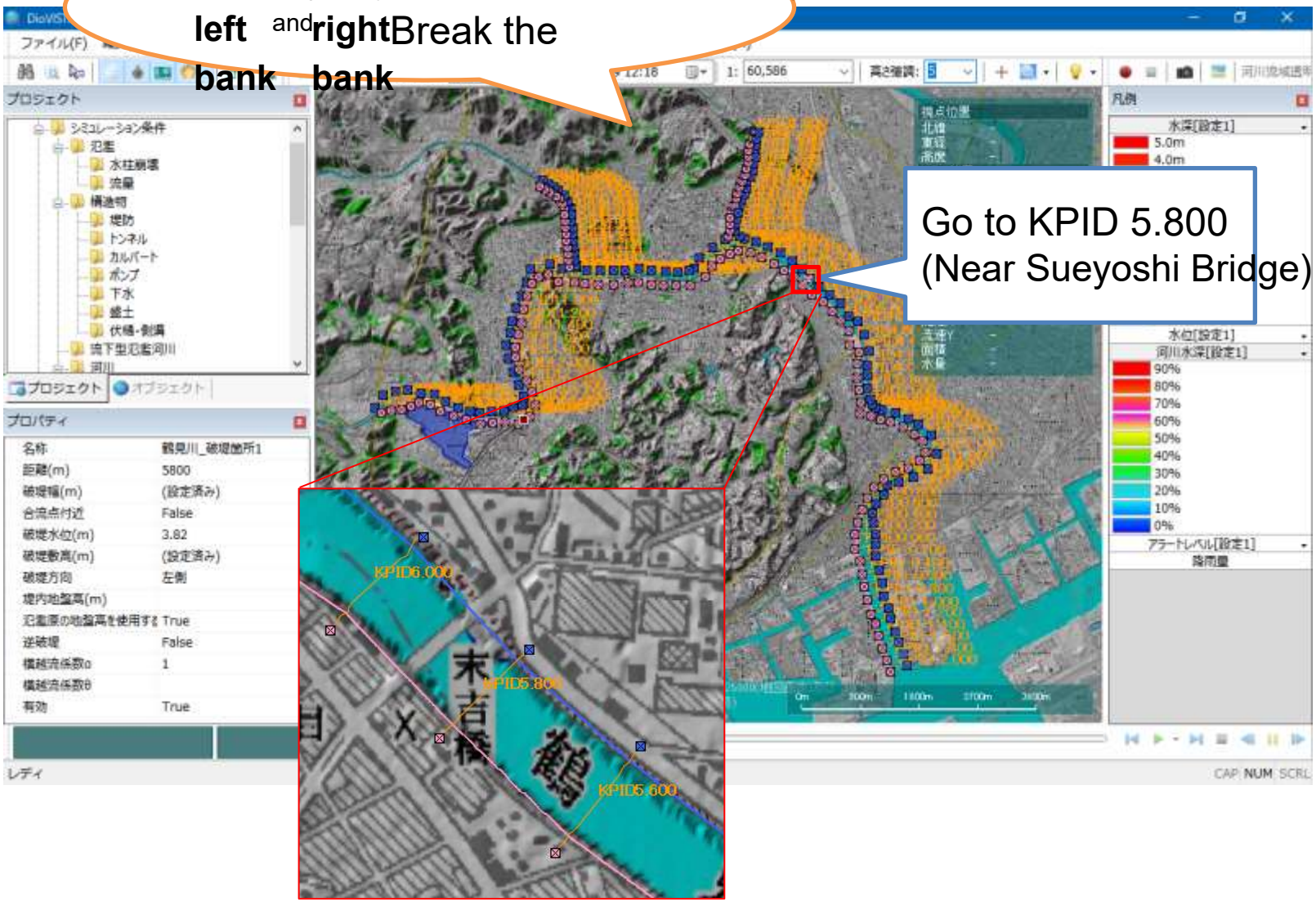
5.8KP (Sueyoshibashi Reference Point)
left bank and **right bank** Break the



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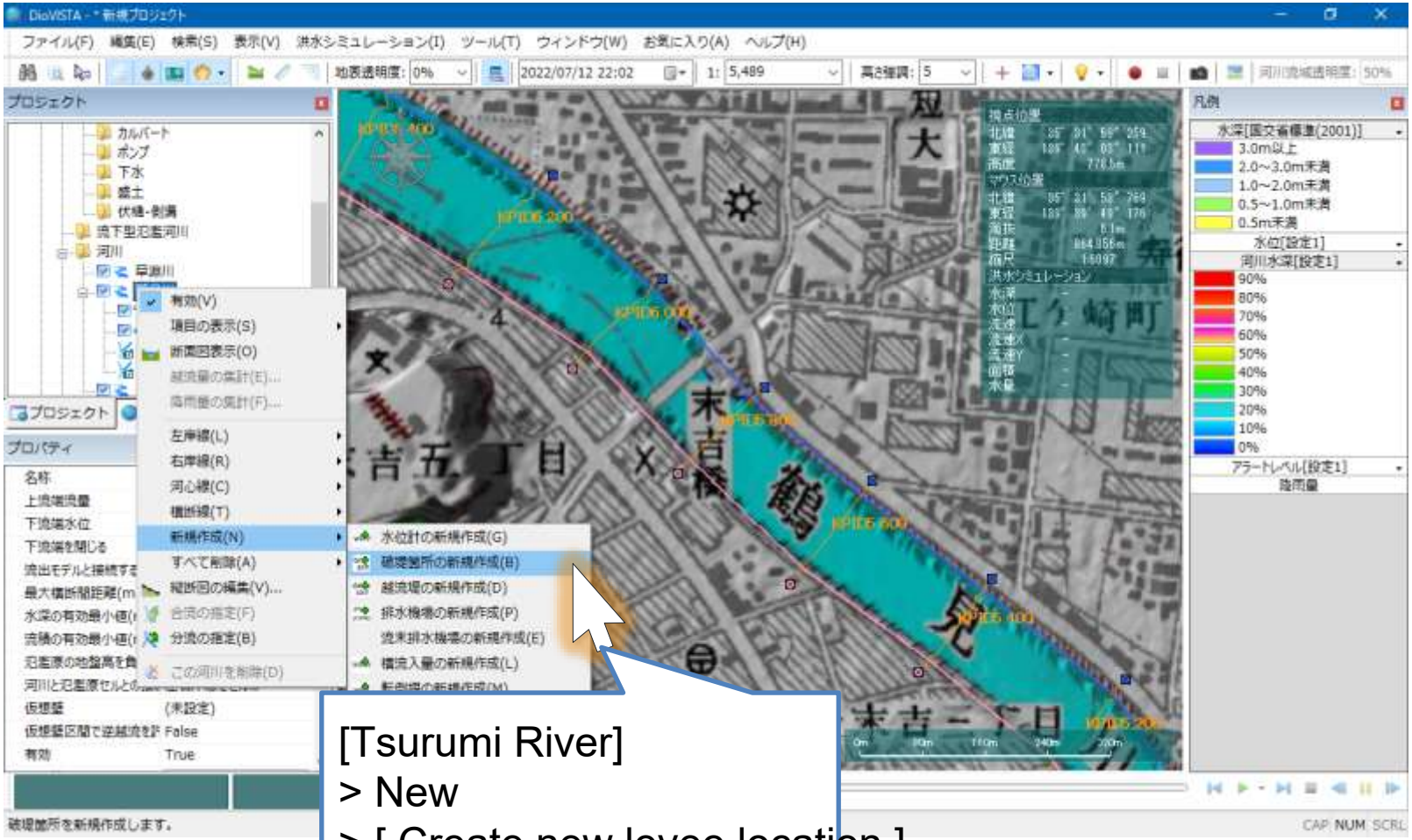
Specify the breakage point (2)

Make a levee break point on the **left bank** first, and then make a break point on the right bank.



[Tsurumi River]
> New
> [Create new levee location]

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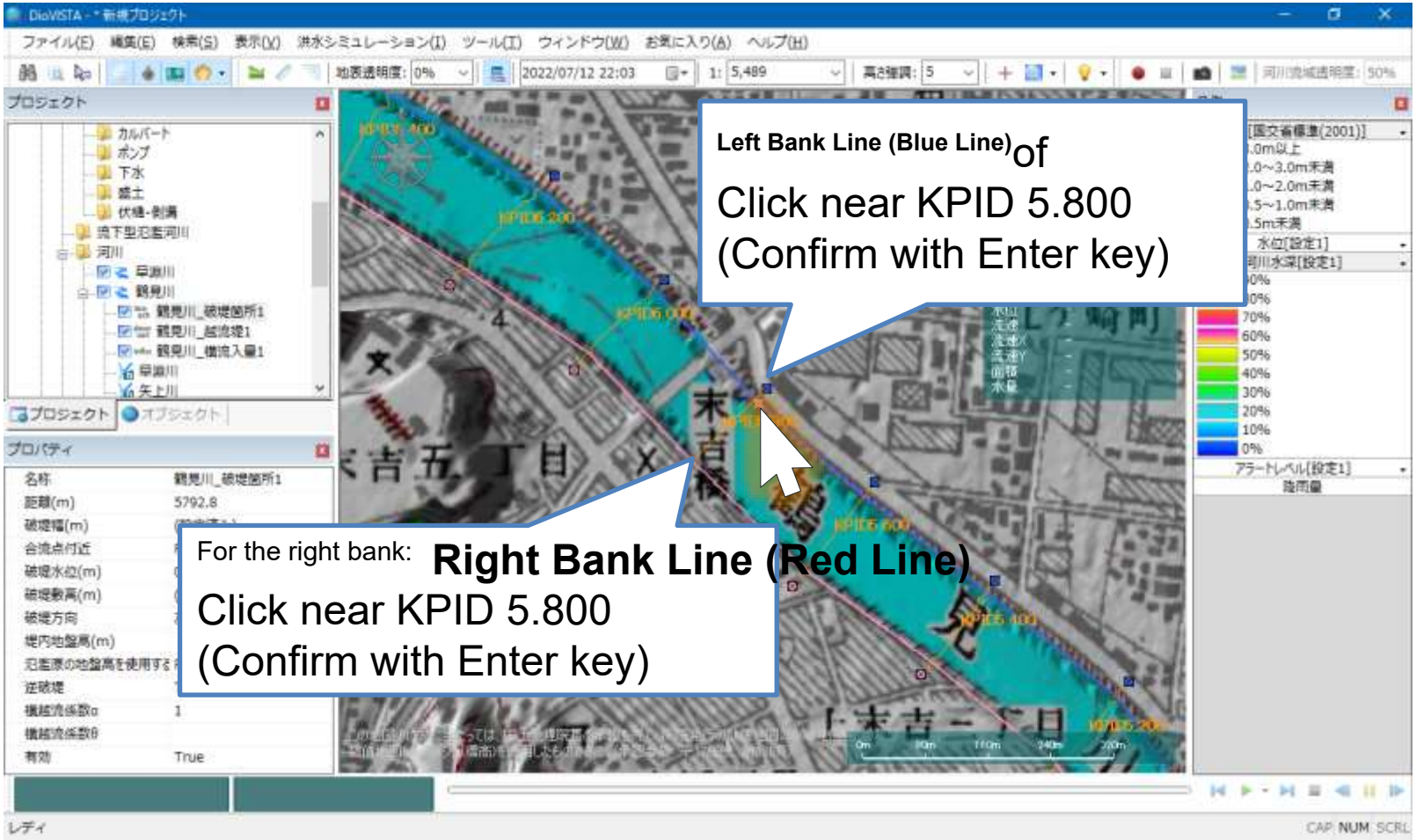
Designate a breakpoint (3)



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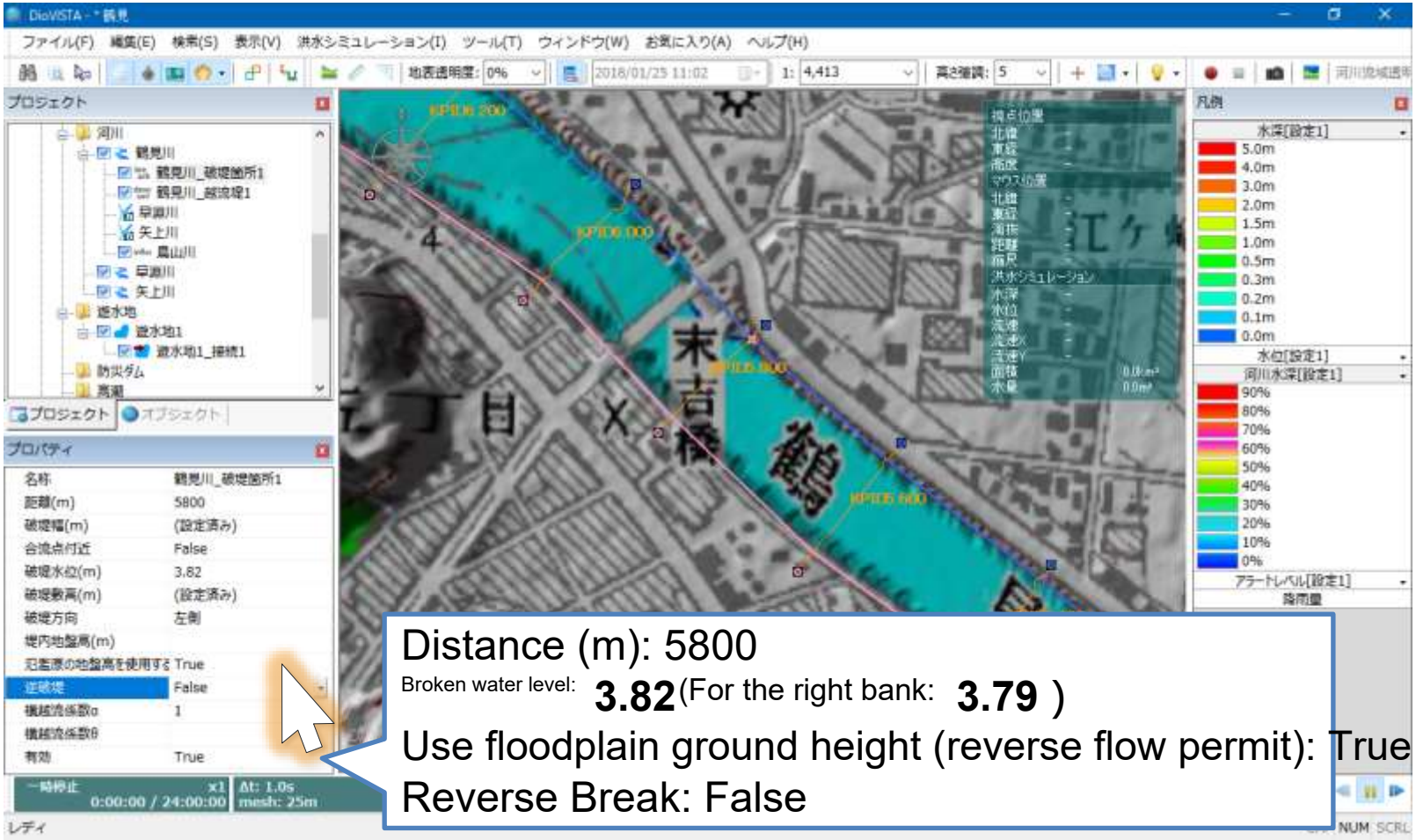
Designate a breakpoint (4)



Distance (m): 5800

Broken water level: **3.82** (For the right bank: **3.79**)

Use floodplain ground height (reverse flow permit): True

Reverse Break: False

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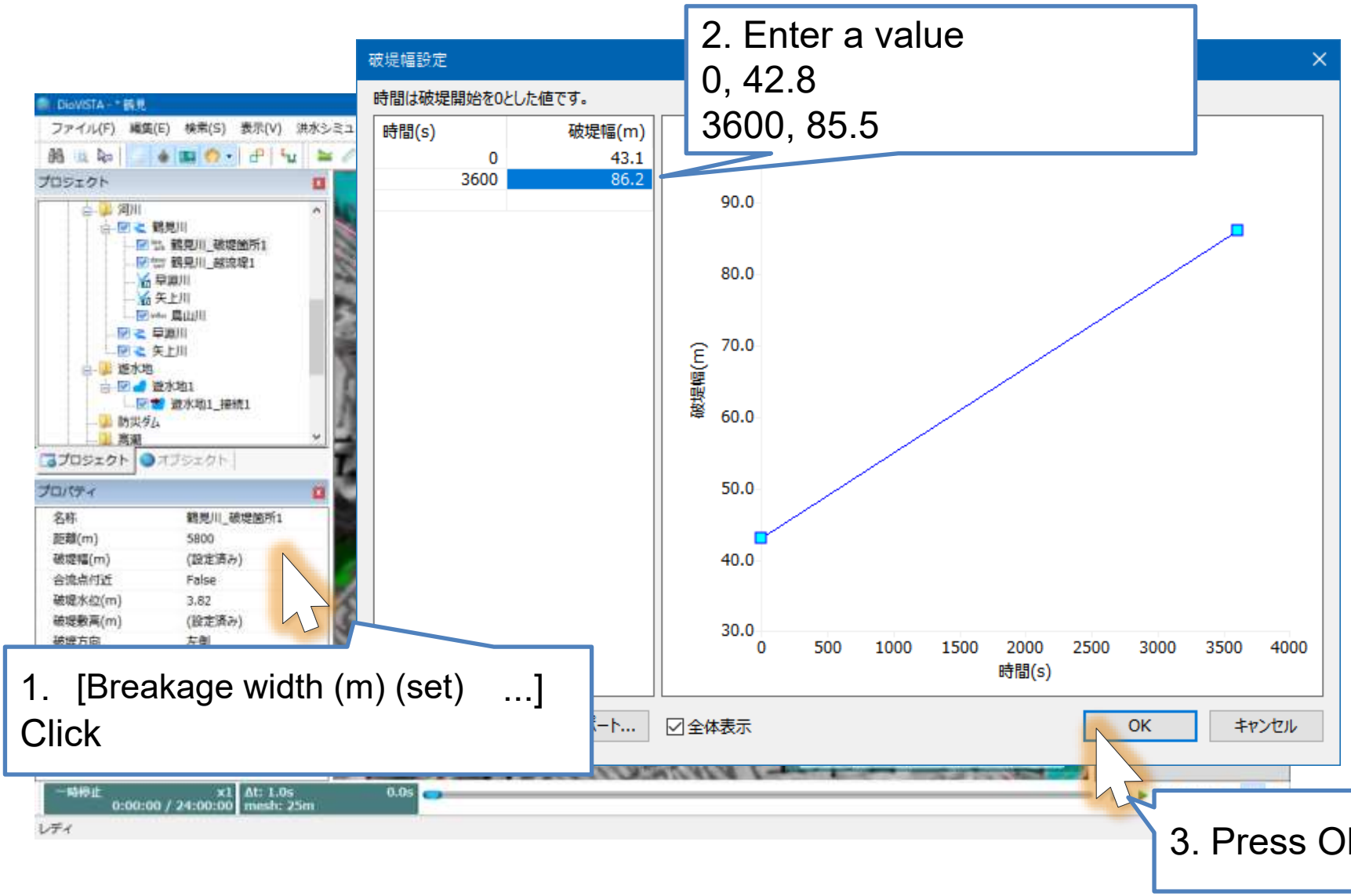
Designate a breakage point (5)



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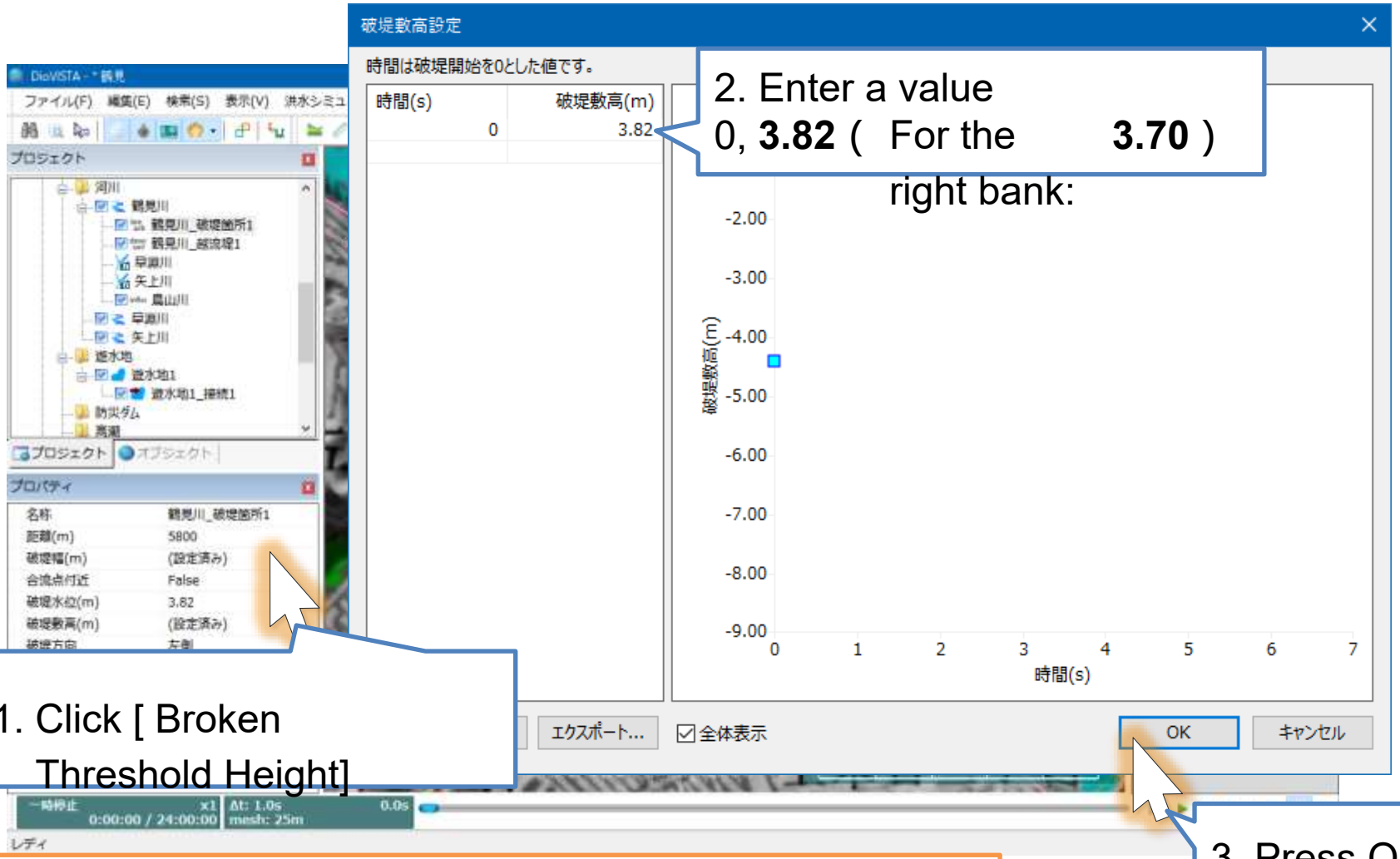
Designate a breakpoint (6)



Return to p. 79 and set a break point on the **right bank** as well.

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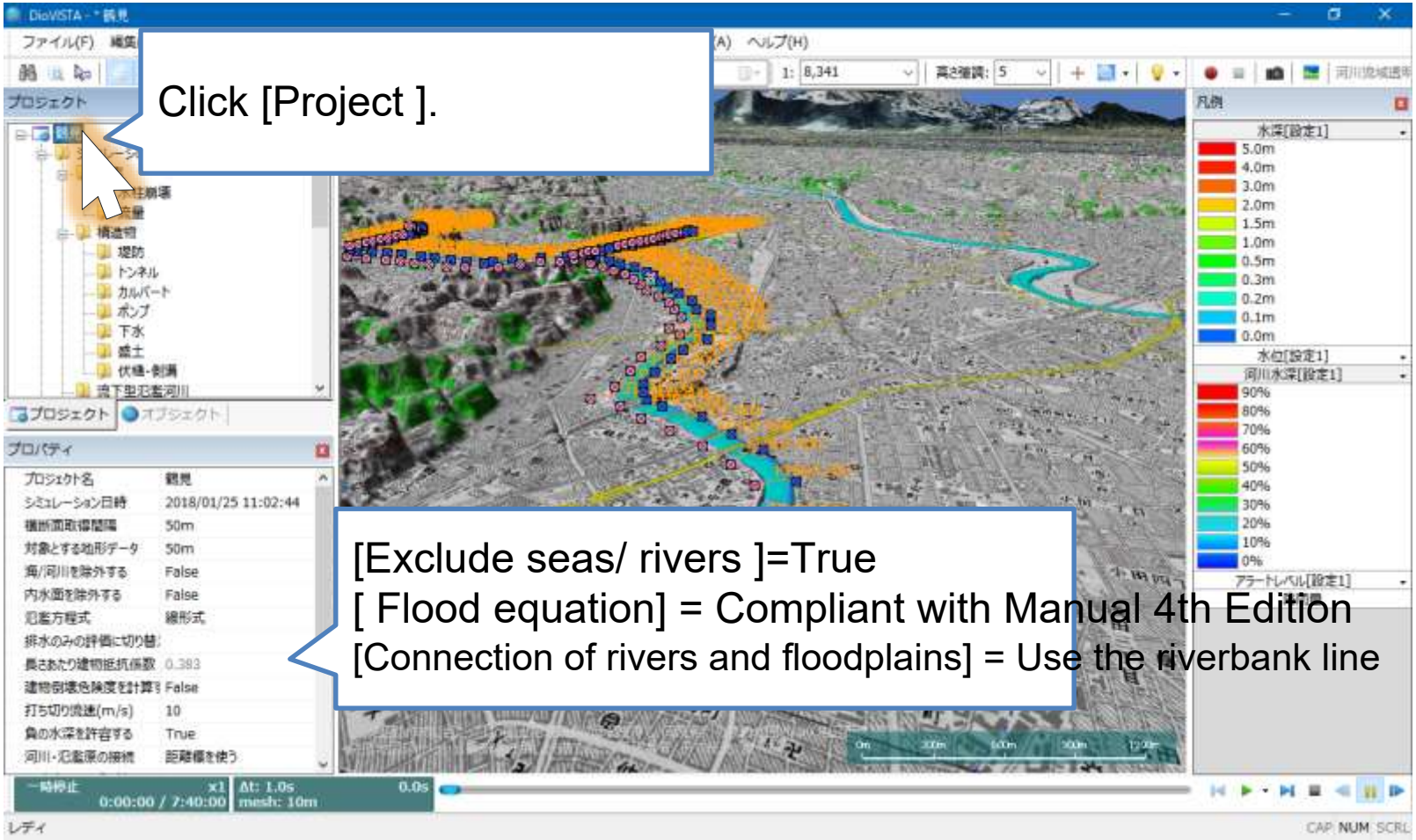
Setting up the project



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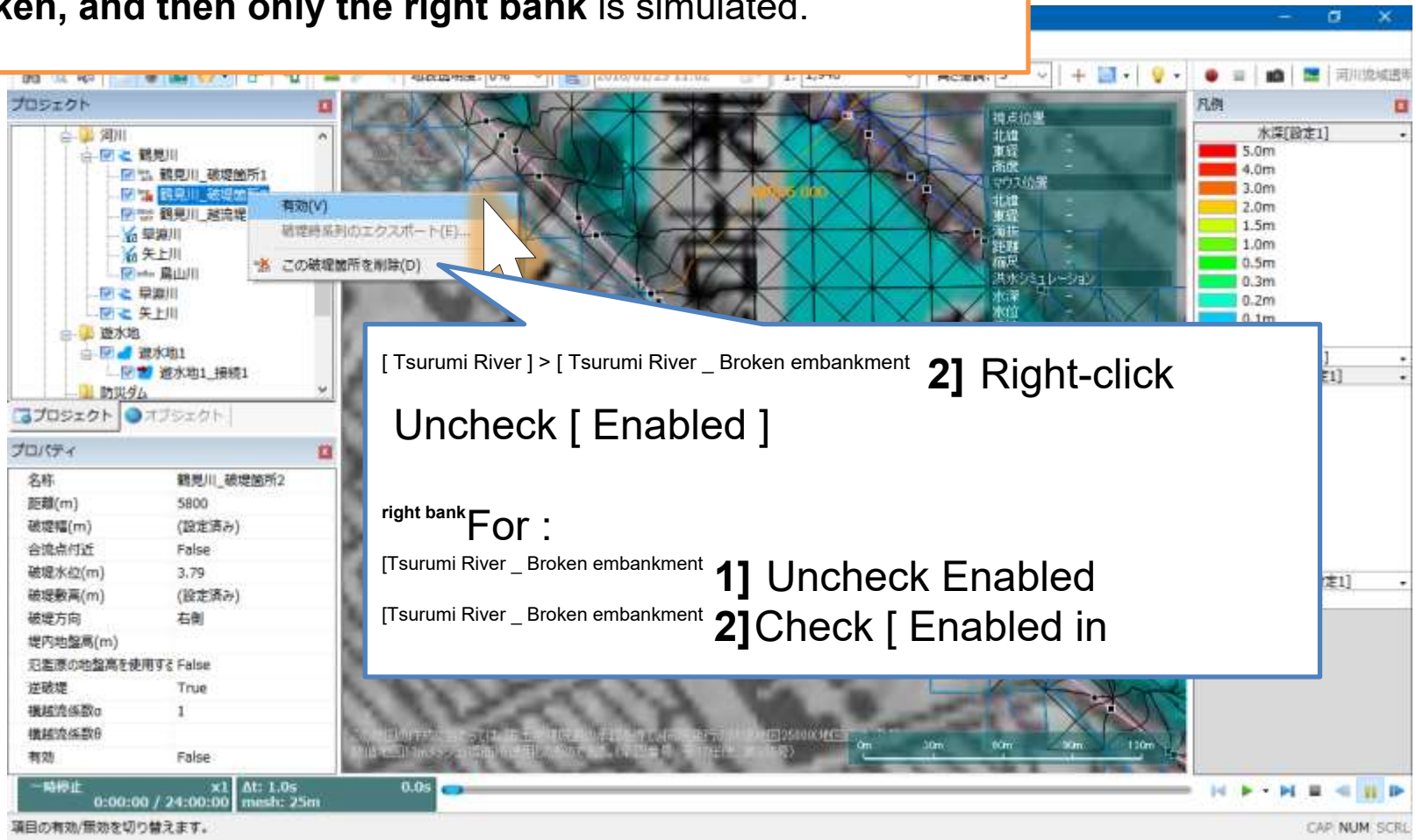
Setting the Breaking Point

First, a simulation is performed in which only **the left bank is broken, and then only the right bank** is simulated.



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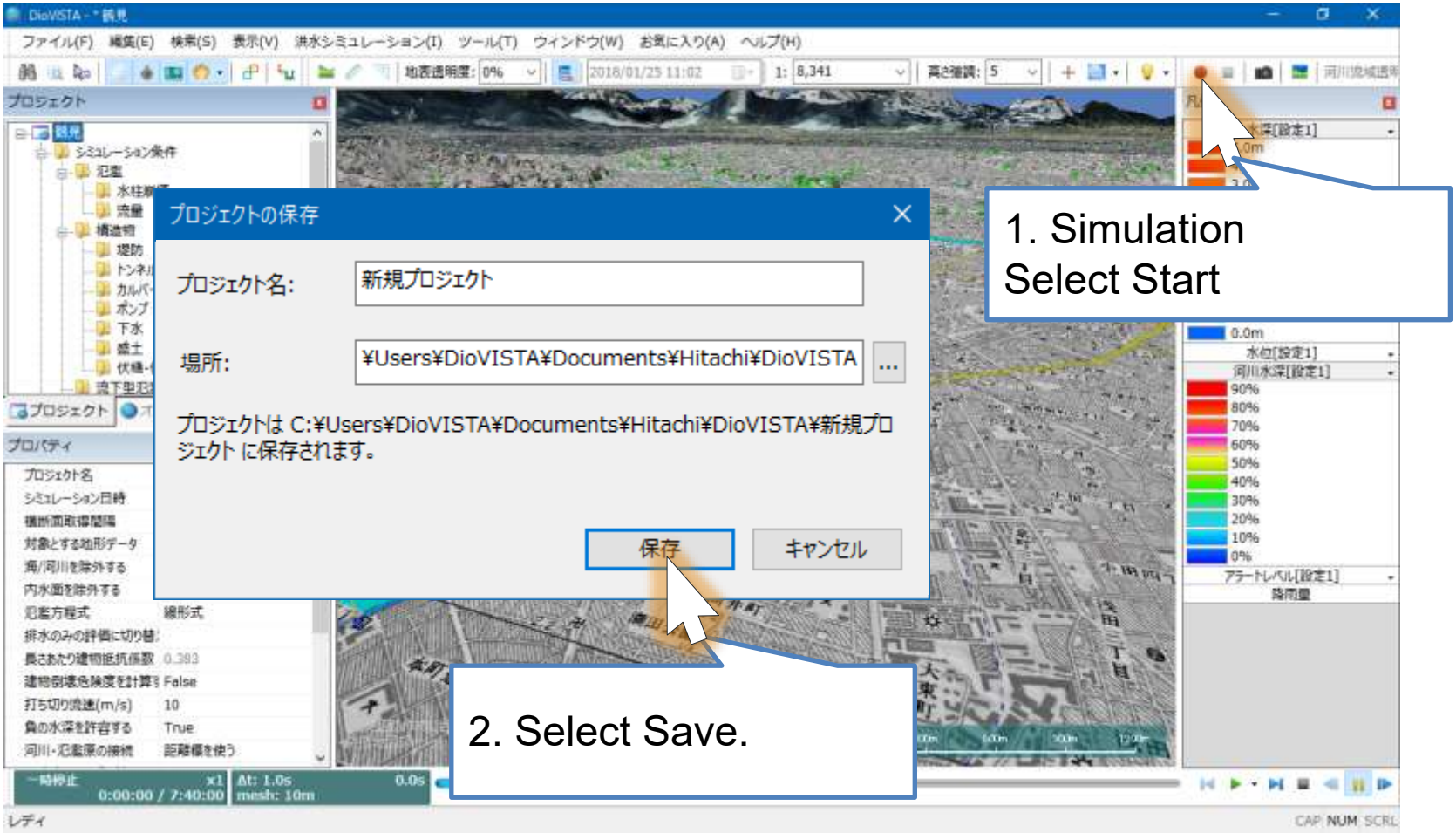
Implementation of flood analysis (1)



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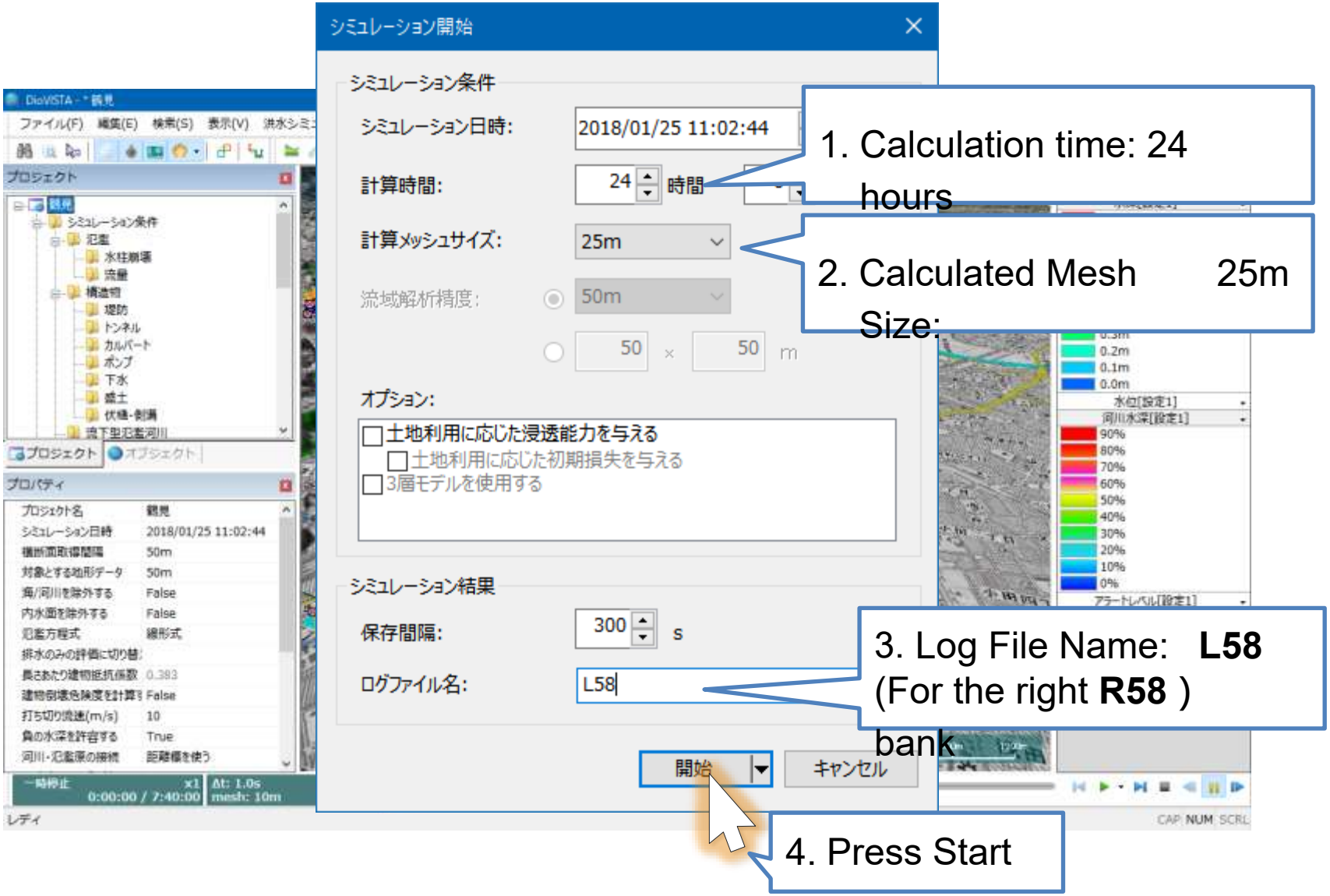
Implementation of flood analysis (2)



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Calculation result (left bank)

Return to p. 85, **Right Bank** Only conduct a simulation to break the levee.

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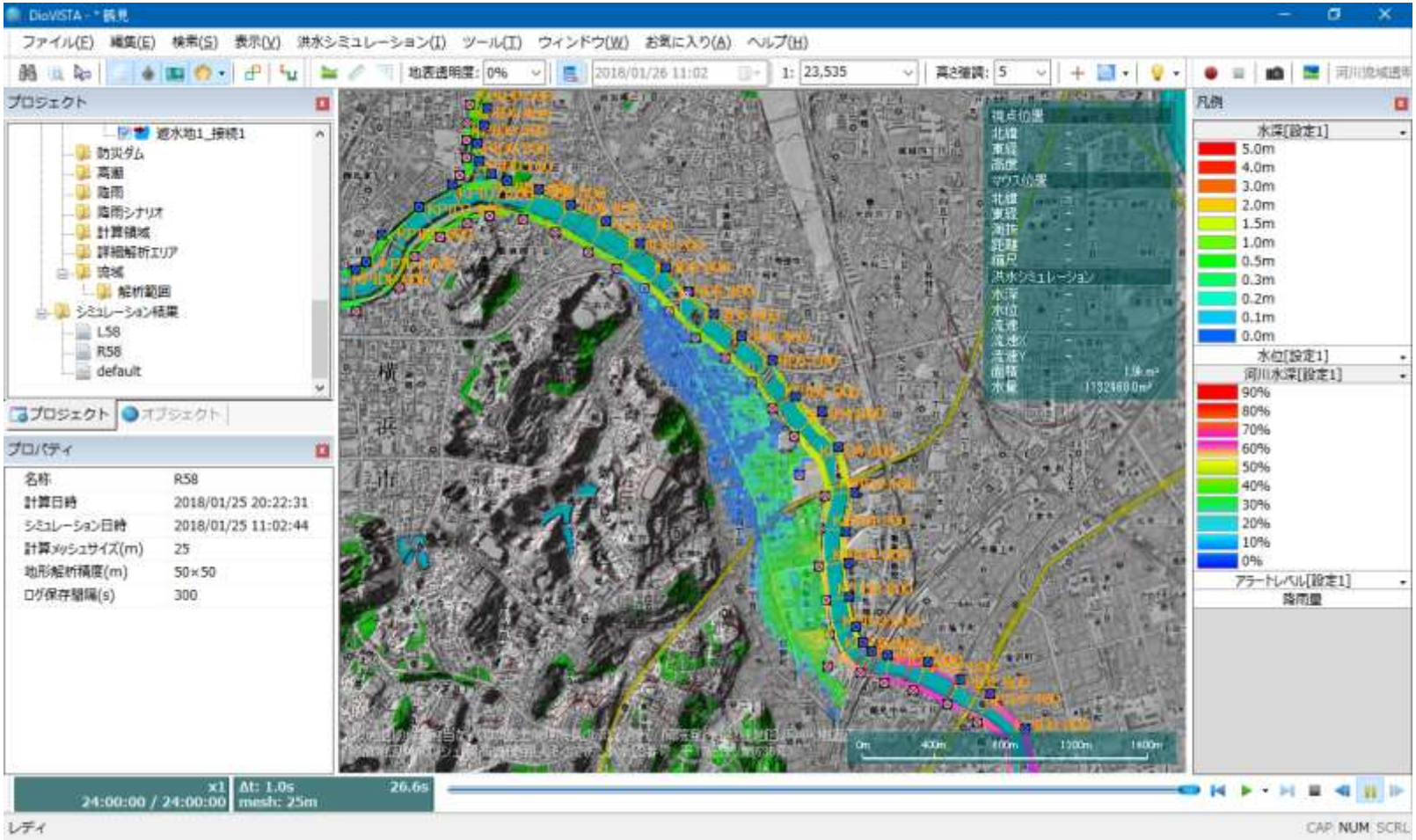
Calculation result (right bank)



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practice

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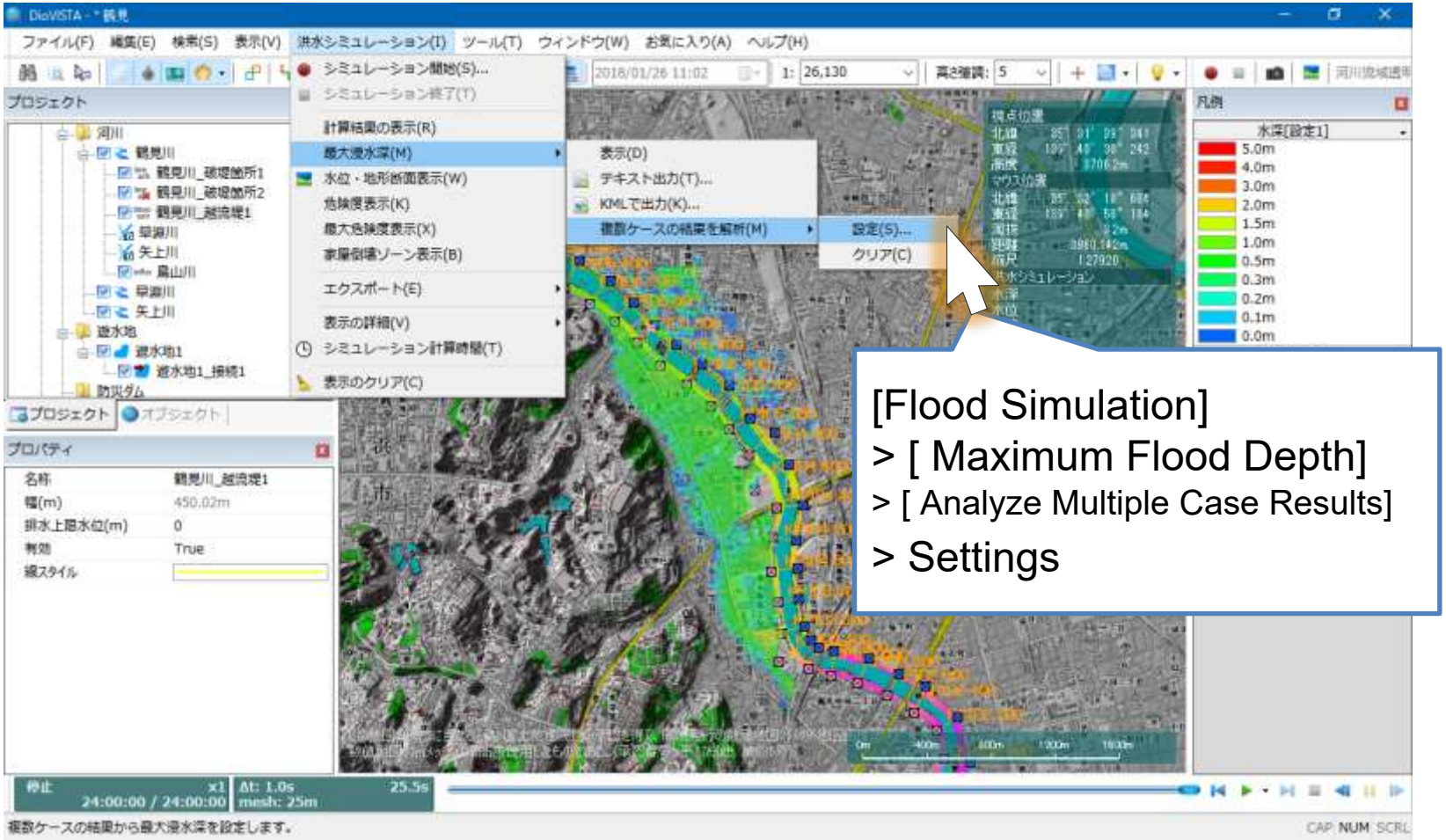
Preparation of envelope diagrams (1)



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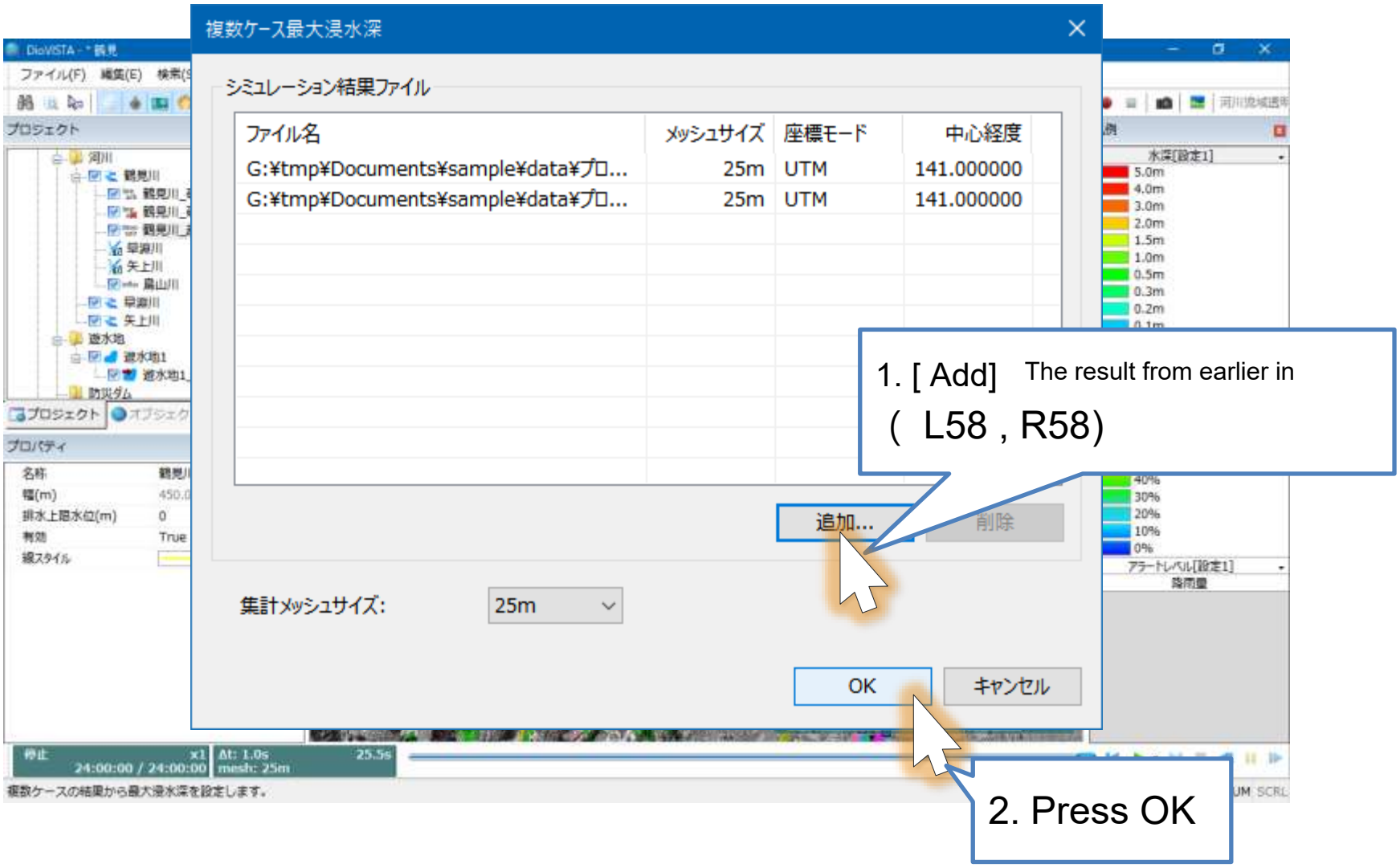
Preparation of envelope diagram (2)



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Preparation of envelope diagram

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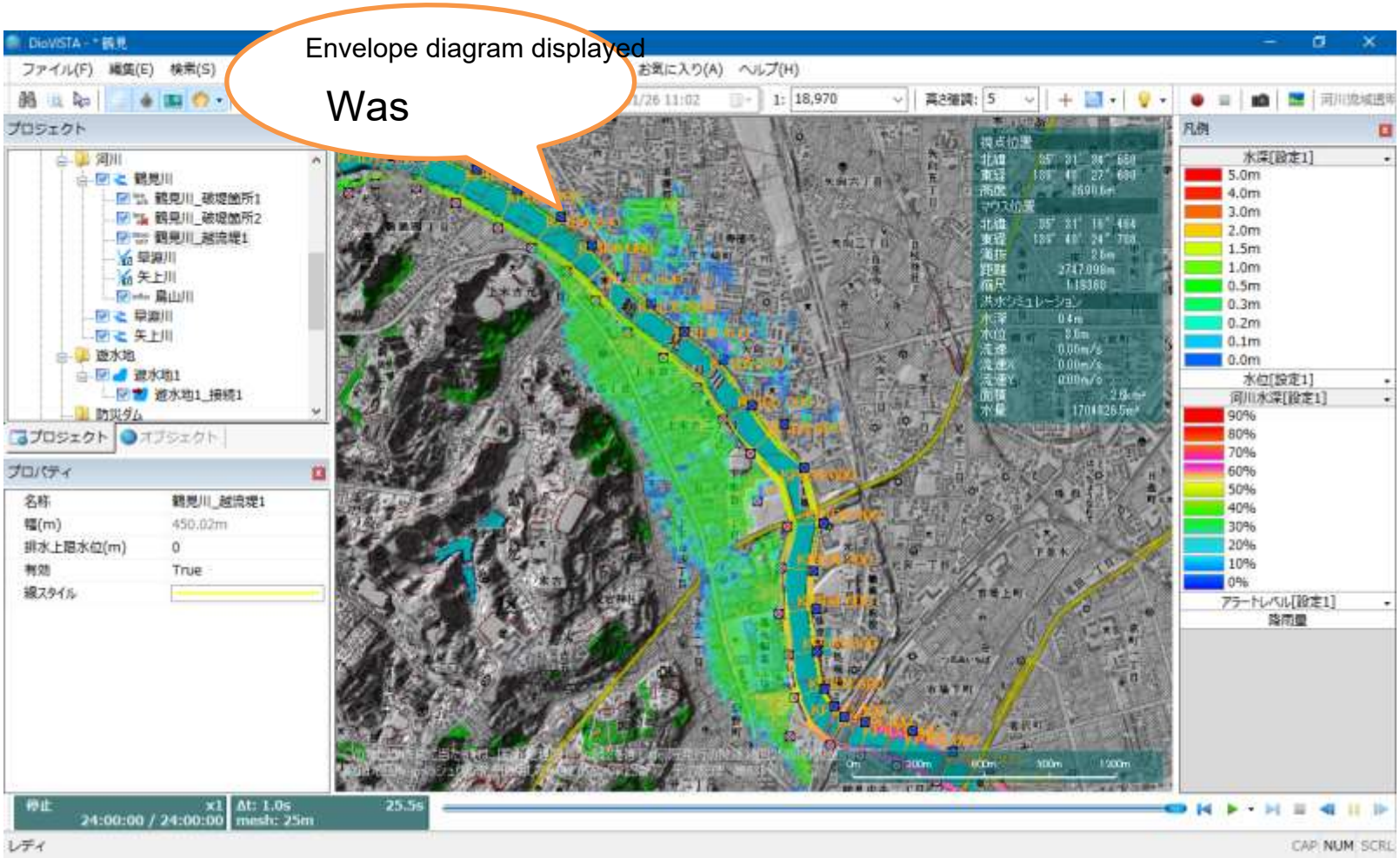
Inspire the Next



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practice

HITACHI
Inspire the Next

1. Launch and map operation
2. Getting used to the operation: Recreating the 2004 Fukui flood
3. Practice: Analysis of the Tsurumi River
   - Capture river channel data
   - Setting levee breaking conditions
   - 25m mesh flood calculation
   - Creation of envelope diagrams
   - Preparation of deliverables in accordance with the guidelines
   - Creation of risk maps

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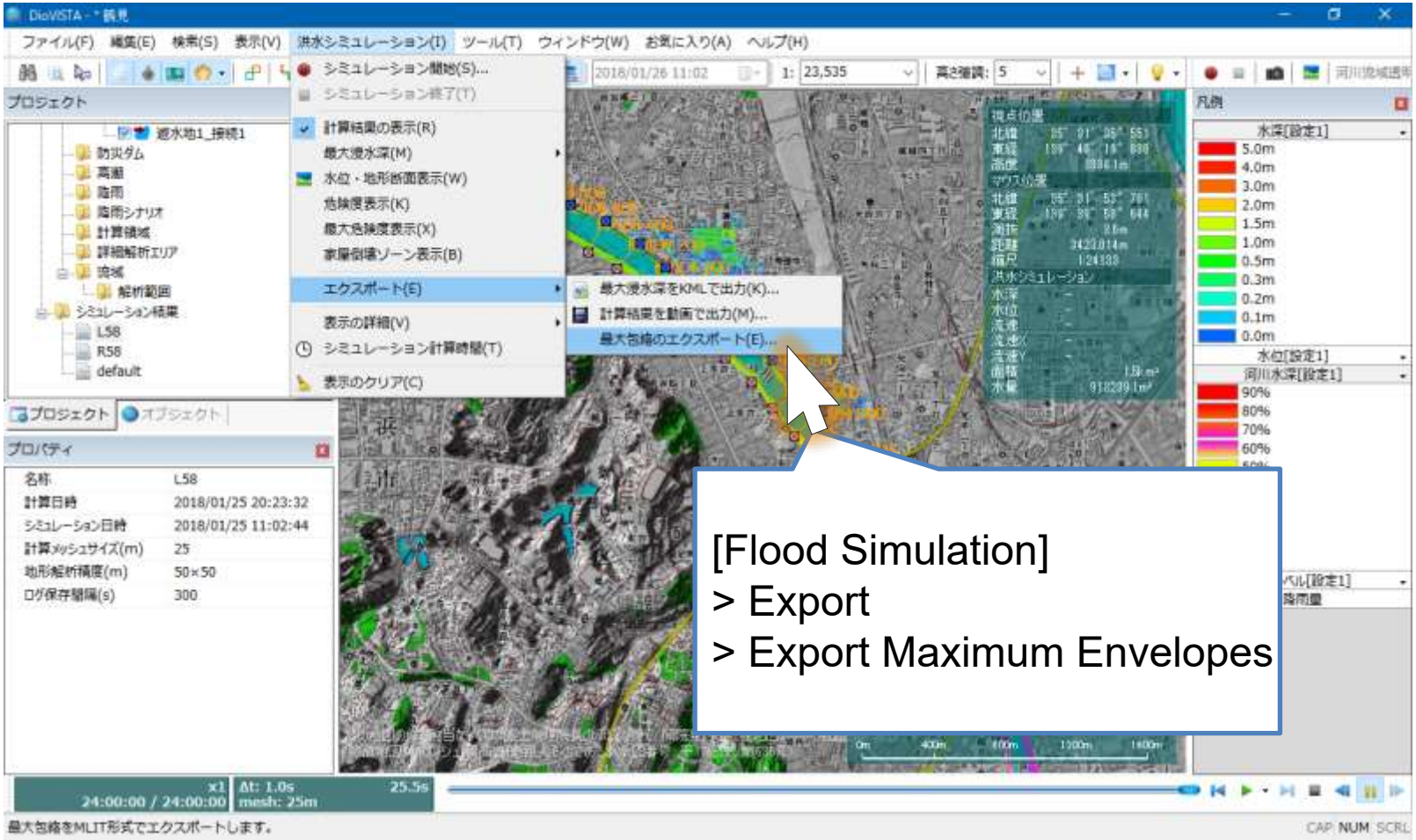
Preparation of deliverables (1)



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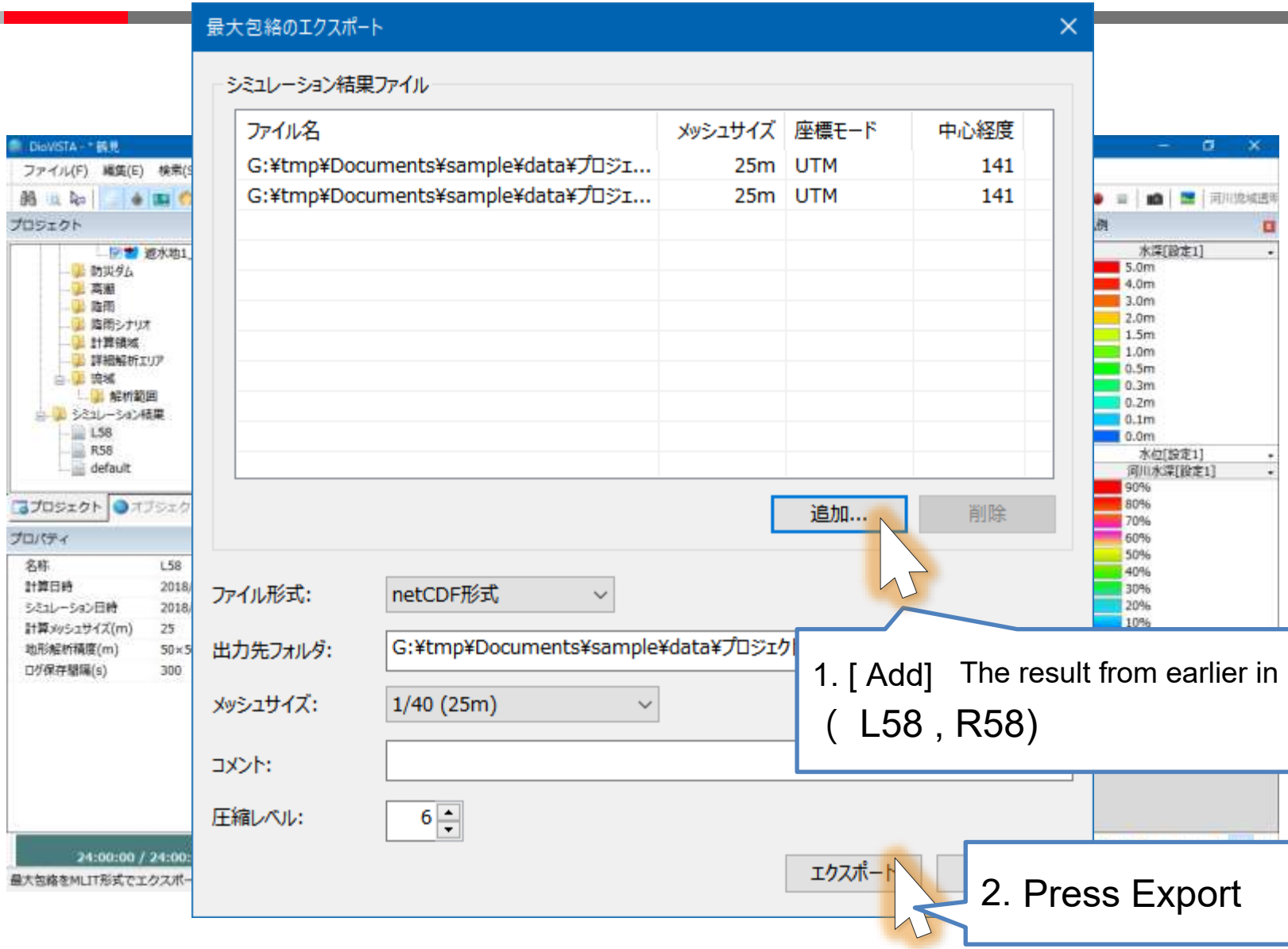
Preparation of deliverables (2)



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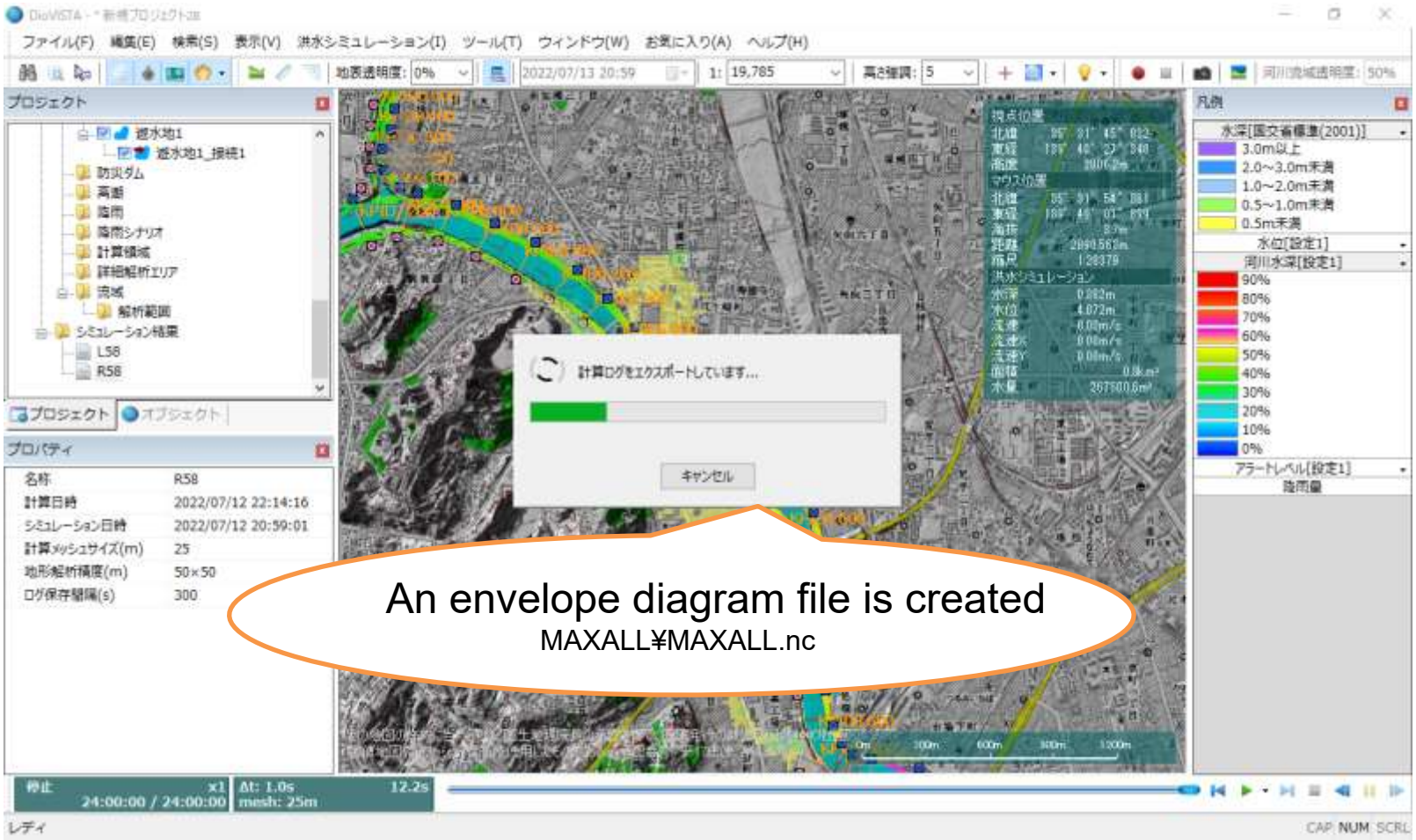
Preparation of deliverables (2)



An envelope diagram file is created

MAXALL¥MAXALL.nc

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practice

HITACHI
Inspire the Next

1. Launch and map operation
2. Getting used to the operation: Recreating the 2004 Fukui flood
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   - Capture river channel data
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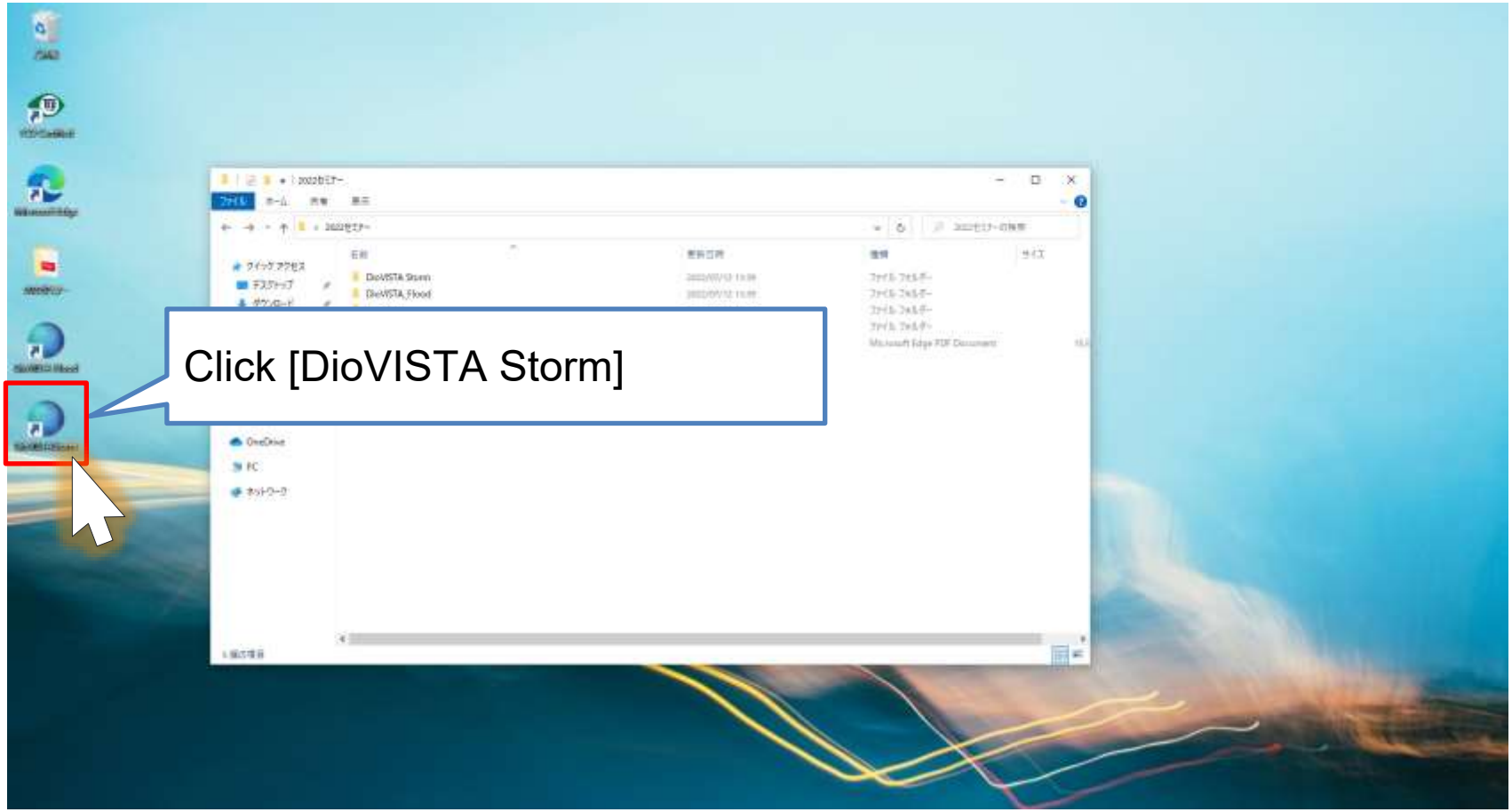
Launching DioVISTA Storm



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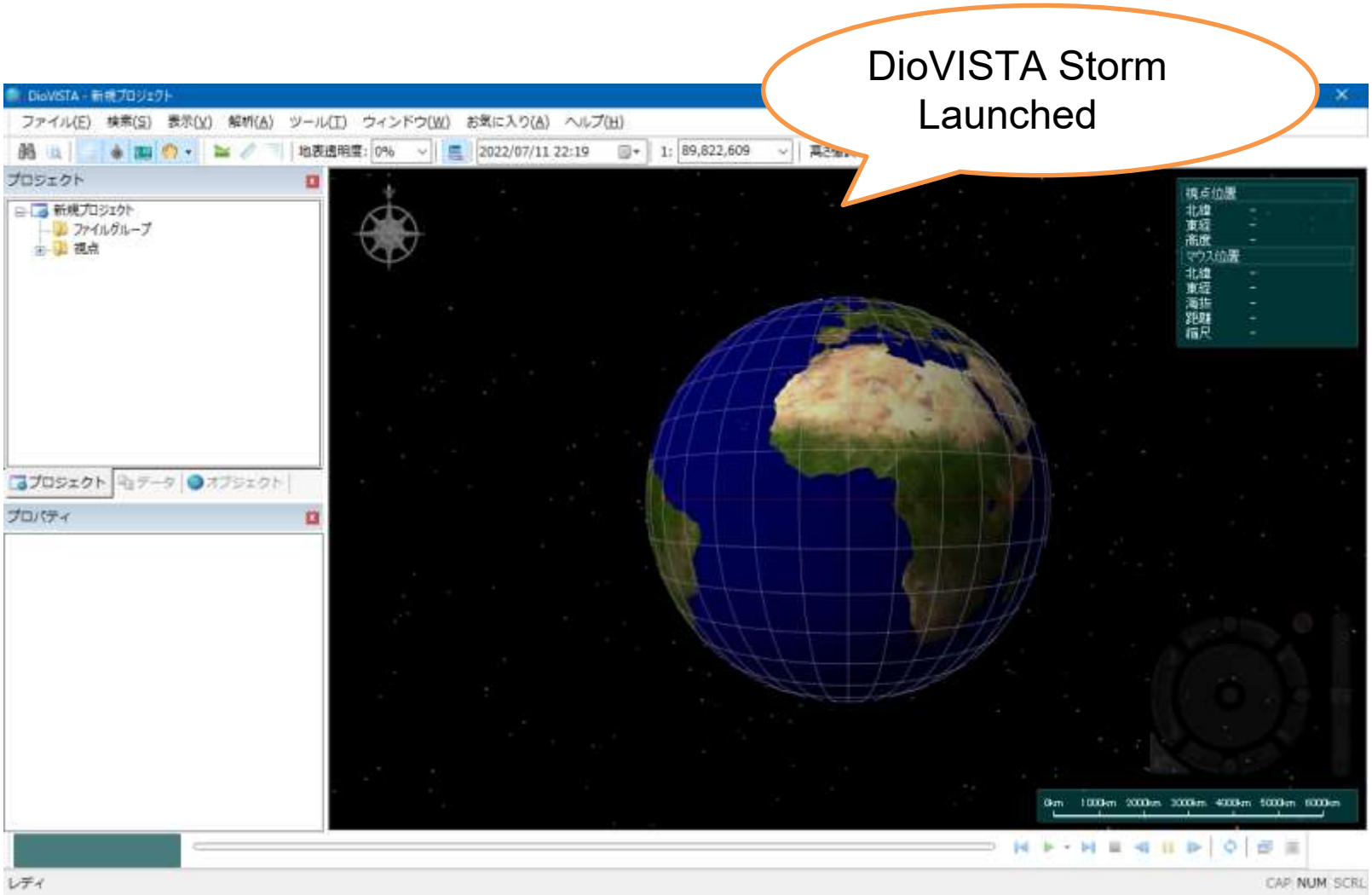
Launching DioVISTA Storm

HITACHI
Inspire the Next



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Change the map display

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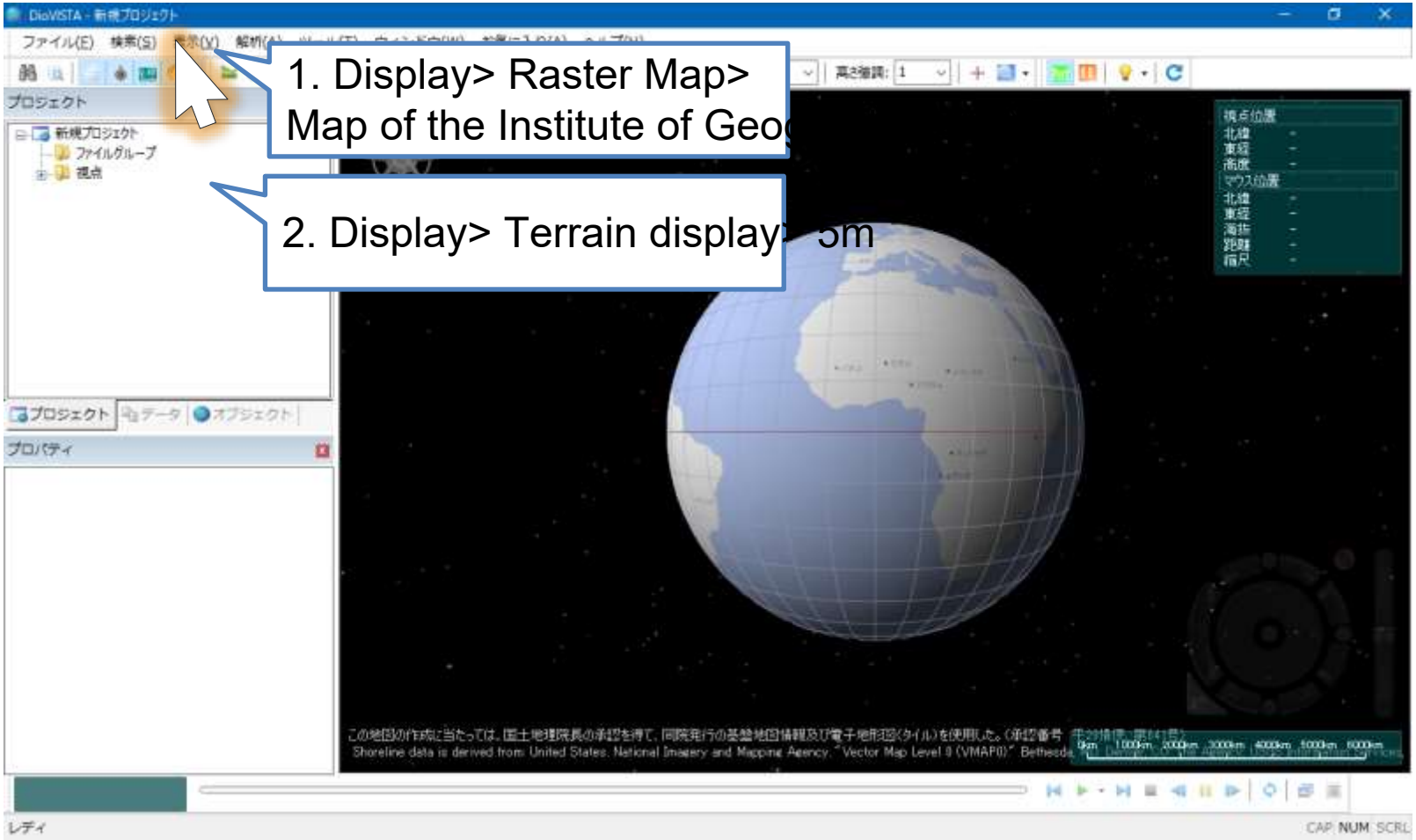

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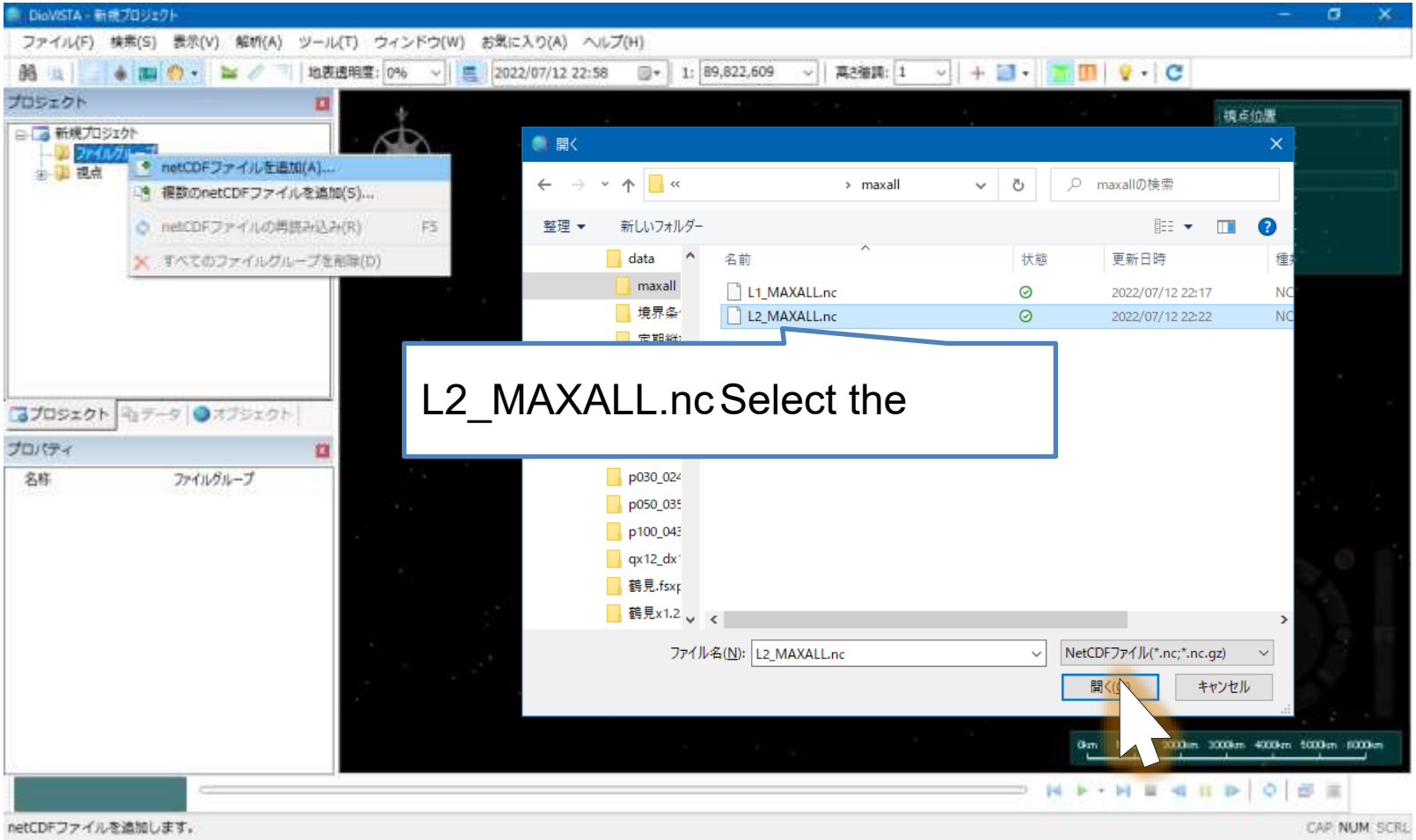
Loading data



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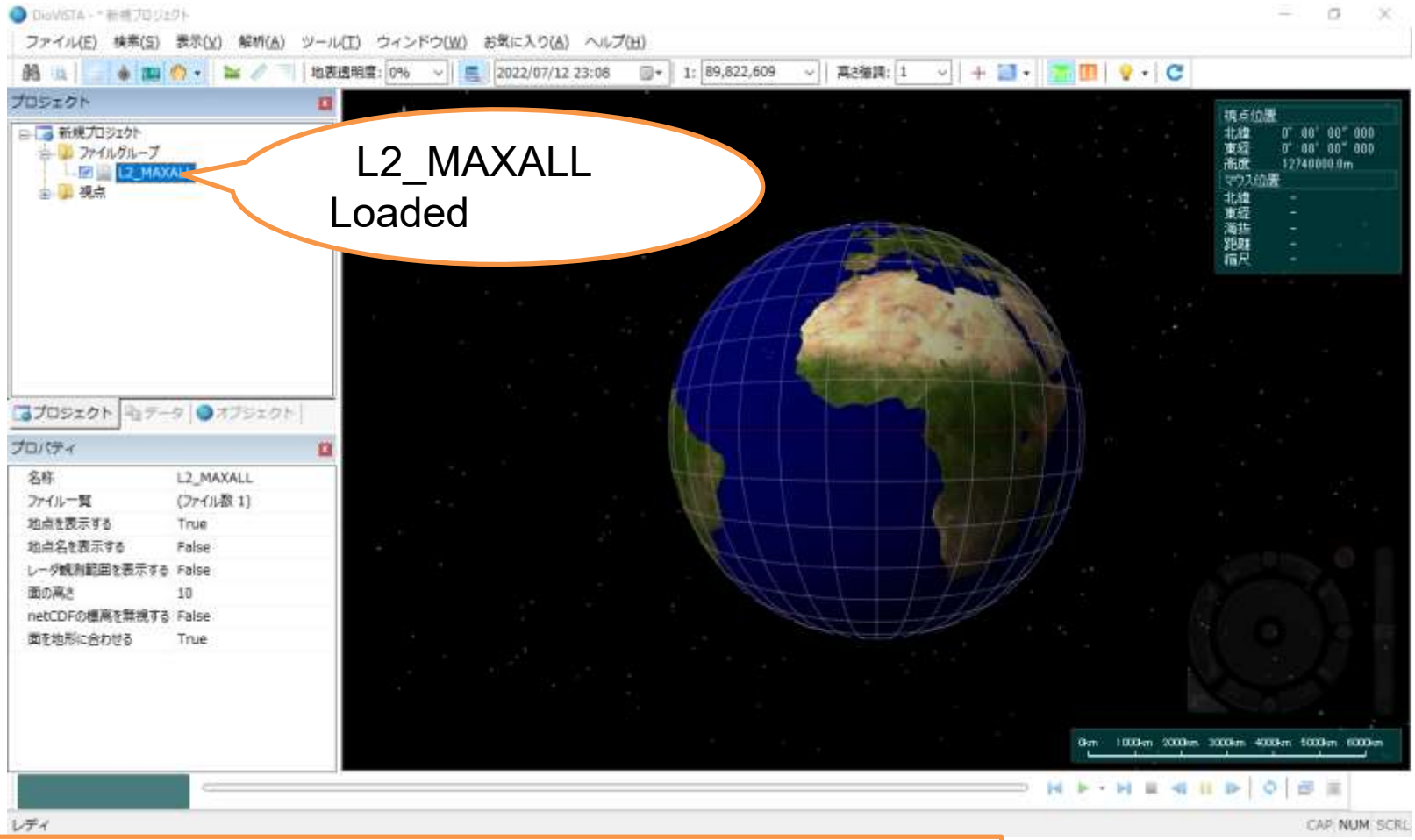
Loading data

HITACHI
Inspire the Next



Follow the same steps to load the L1_MAXALL as well.

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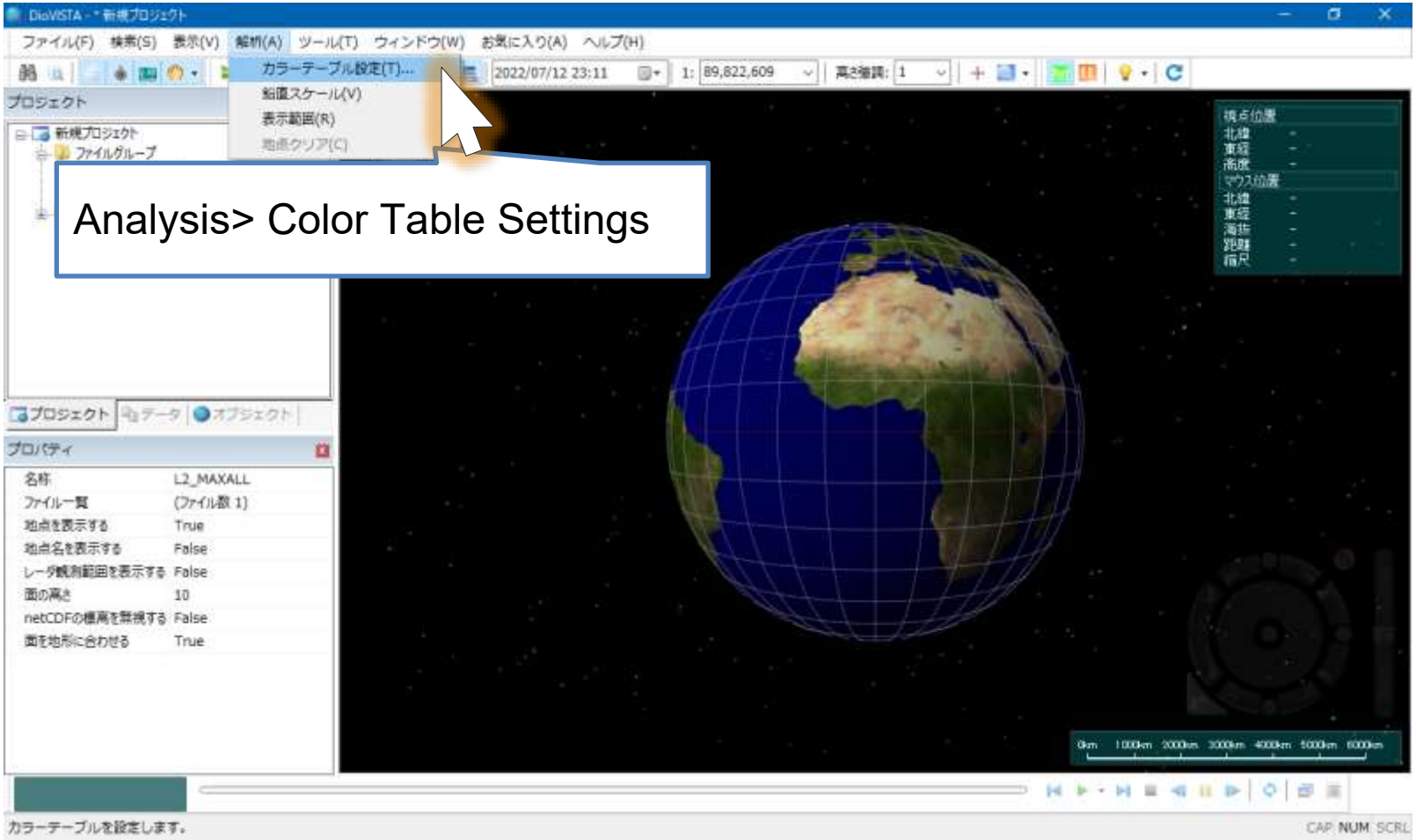
Creating a Color Table

HITACHI
Inspire the Next

We will make a color table specified by the Ministry of Land, Infrastructure, Transport and Tourism.



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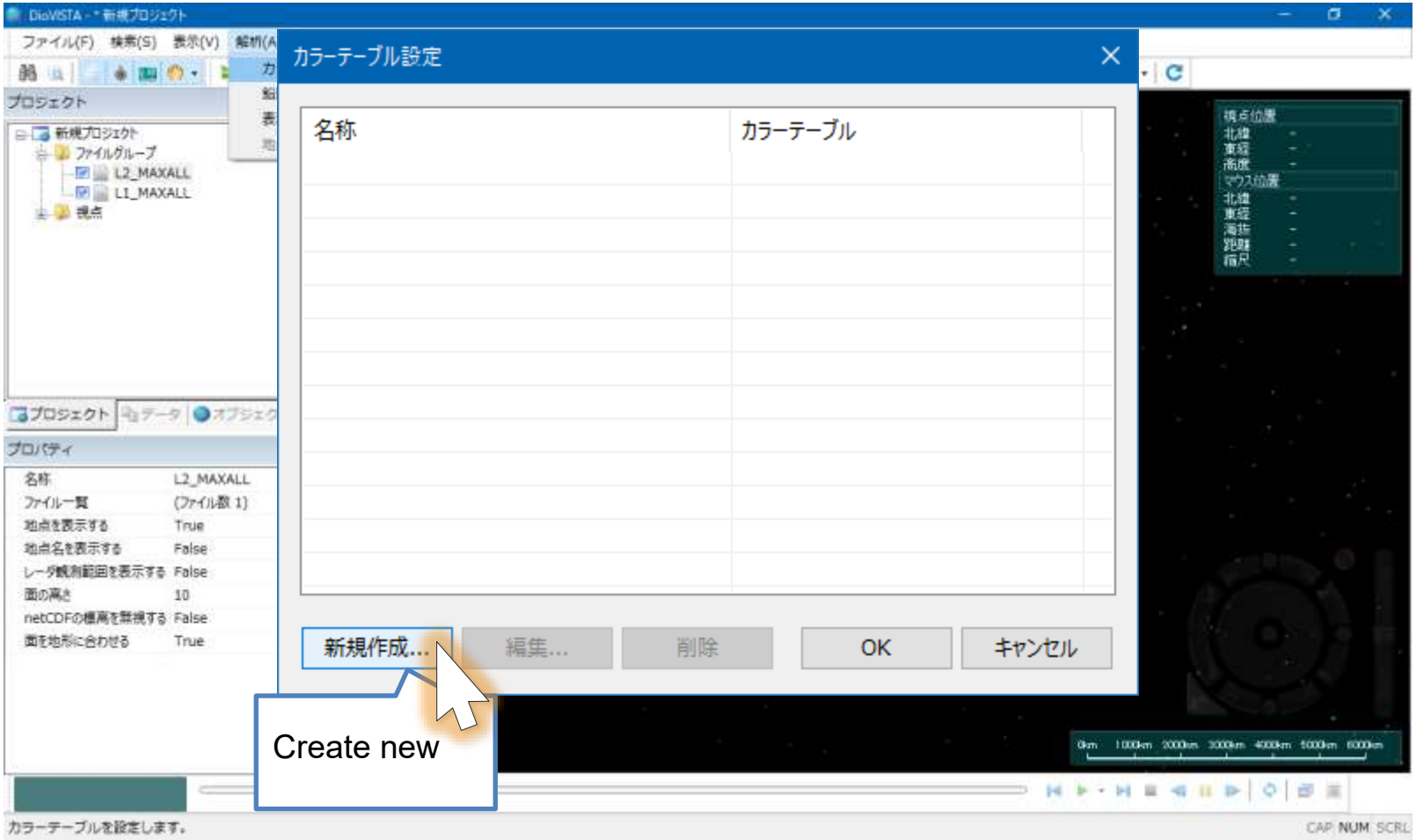
Creating a Color Table

HITACHI
Inspire the Next



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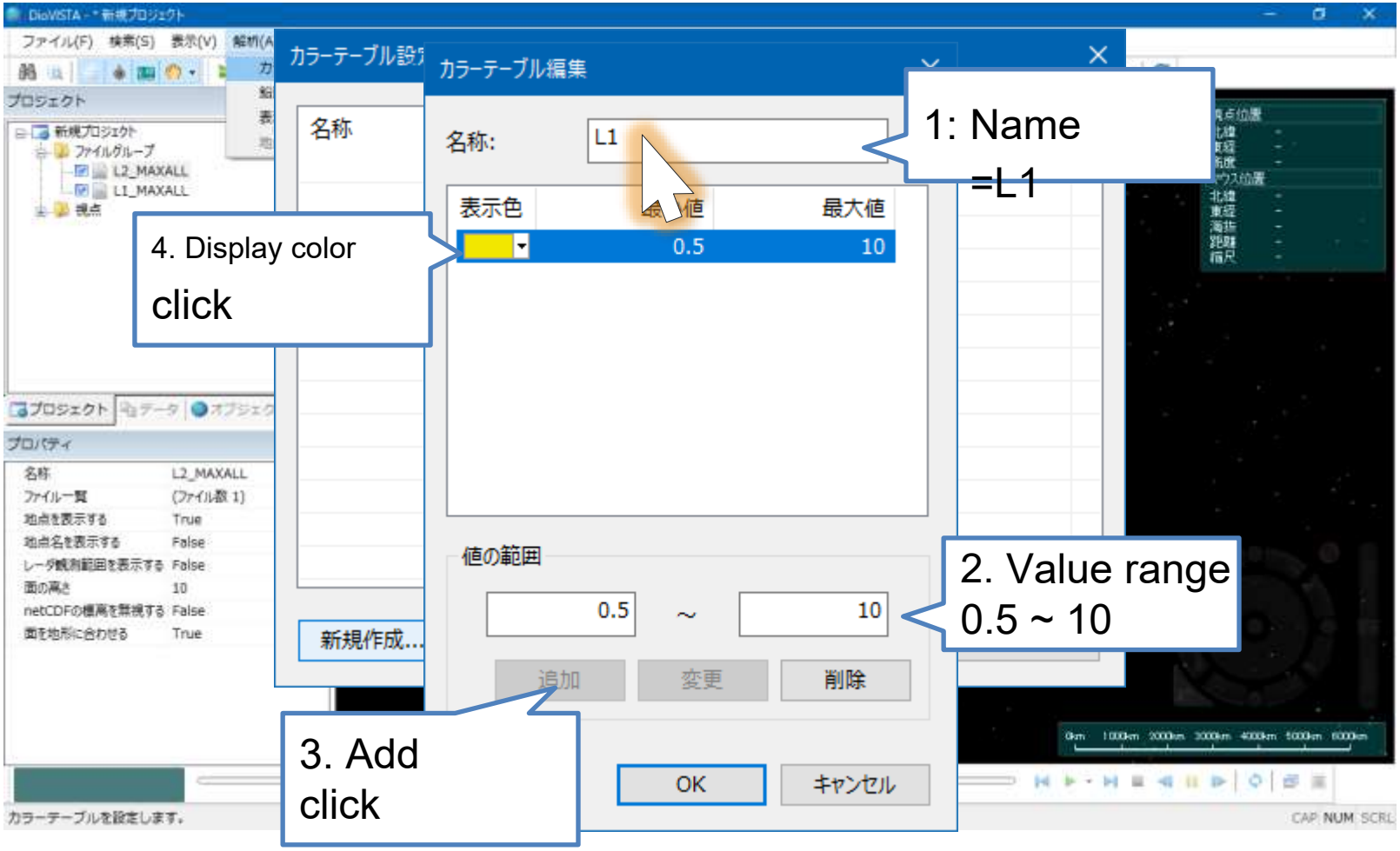
Creating a Color Table



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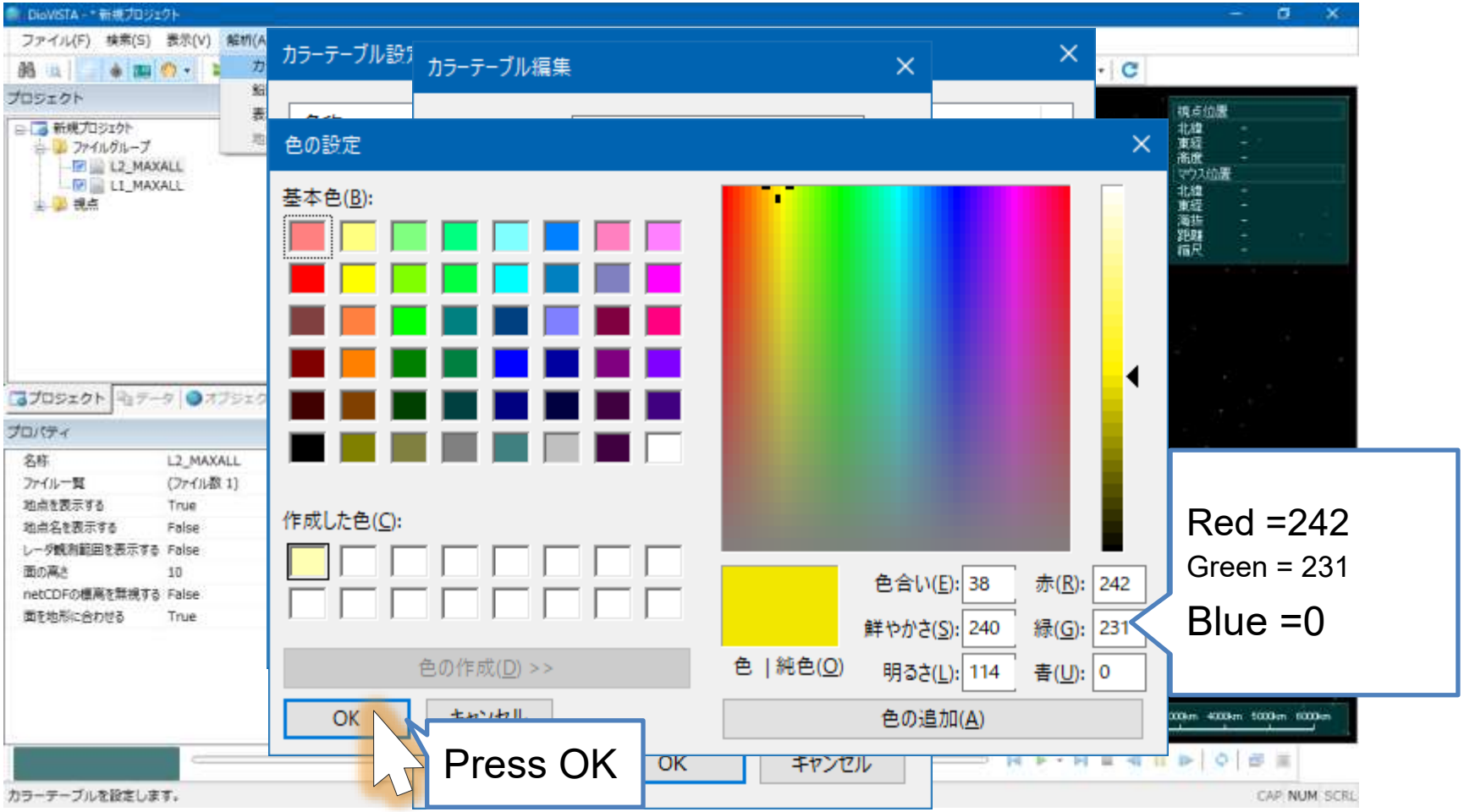
Creating a Color Table

HITACHI
Inspire the Next



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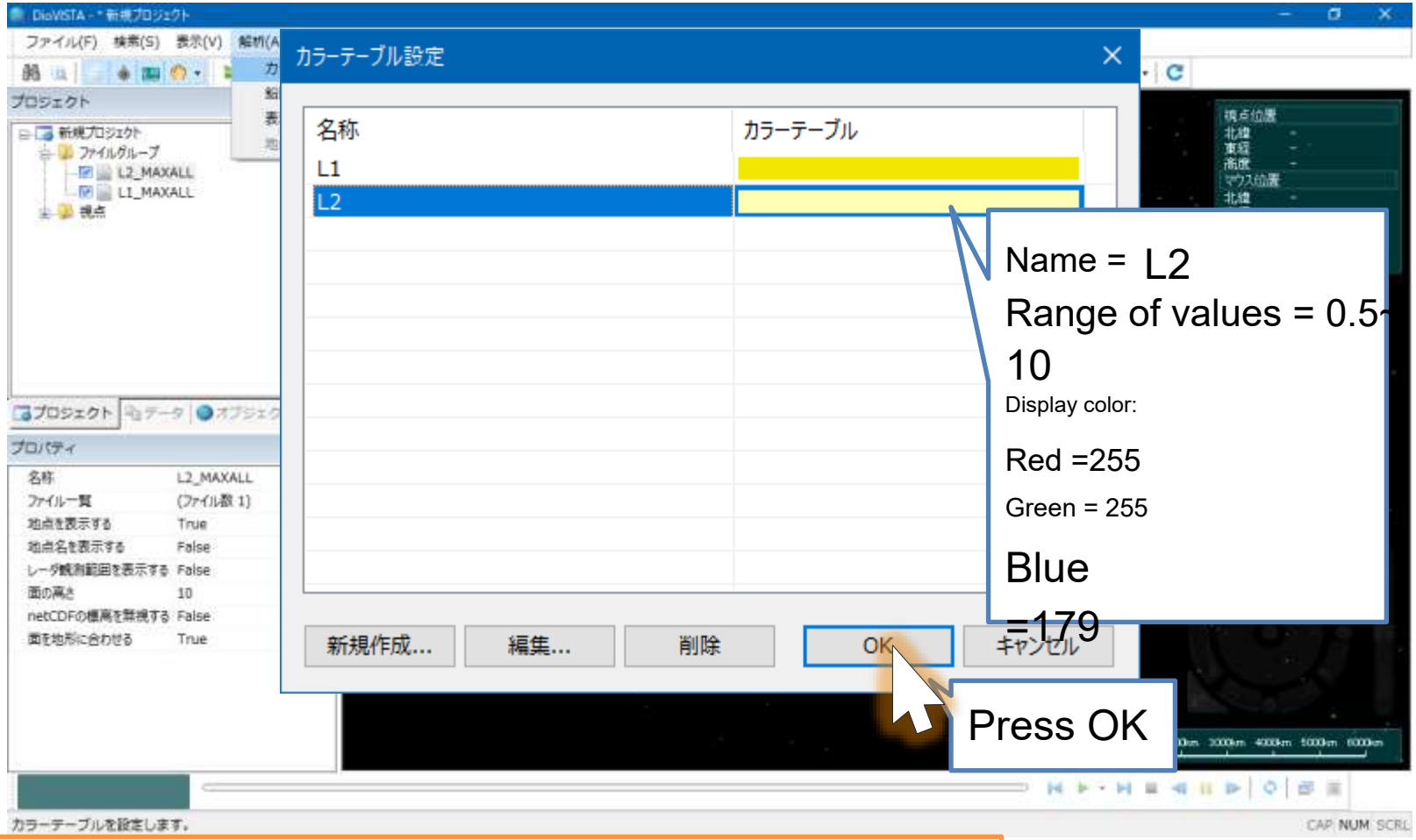
Creating a Color Table

HITACHI
Inspire the Next



In the same way, make an L2.

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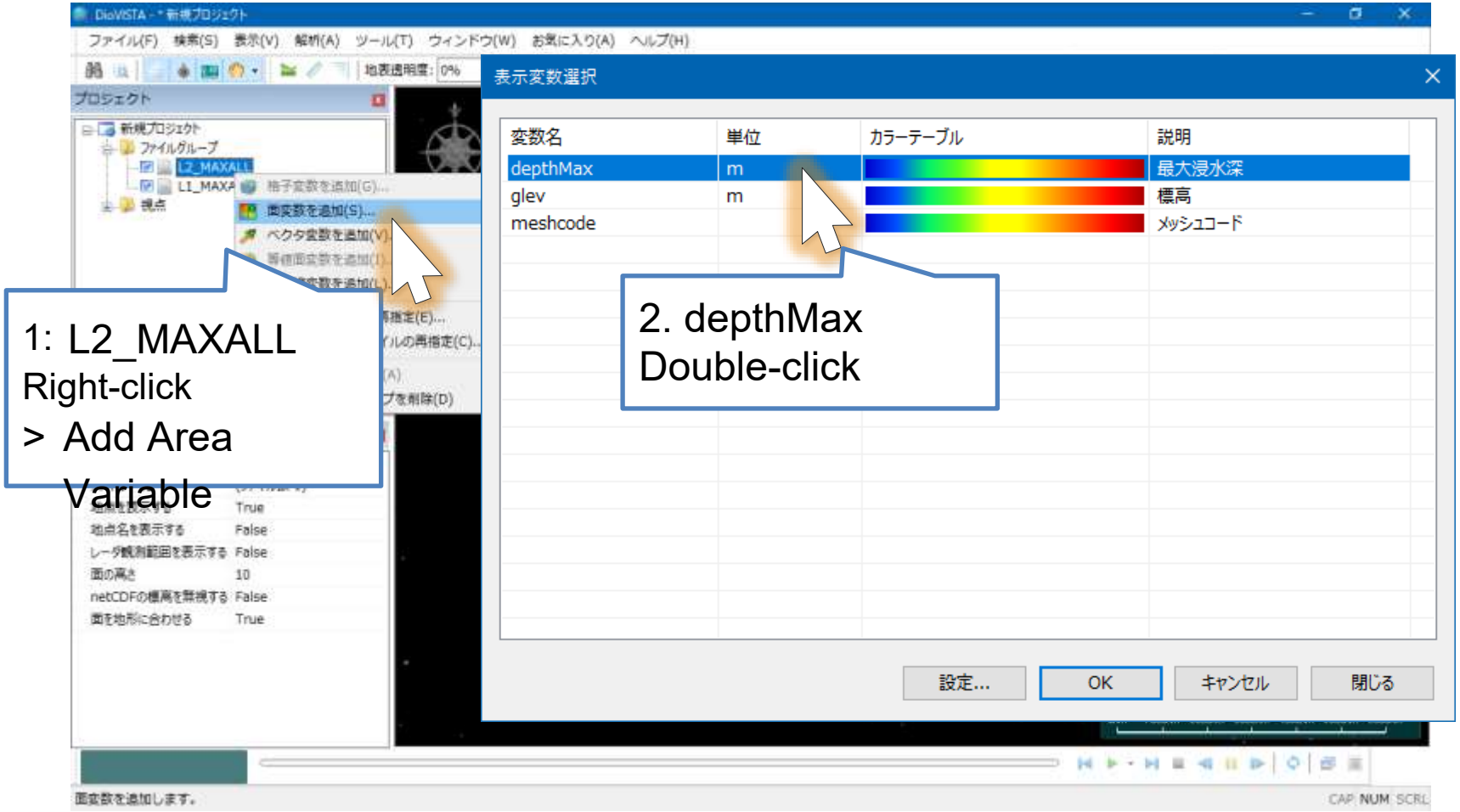
Display of maximum immersion depth



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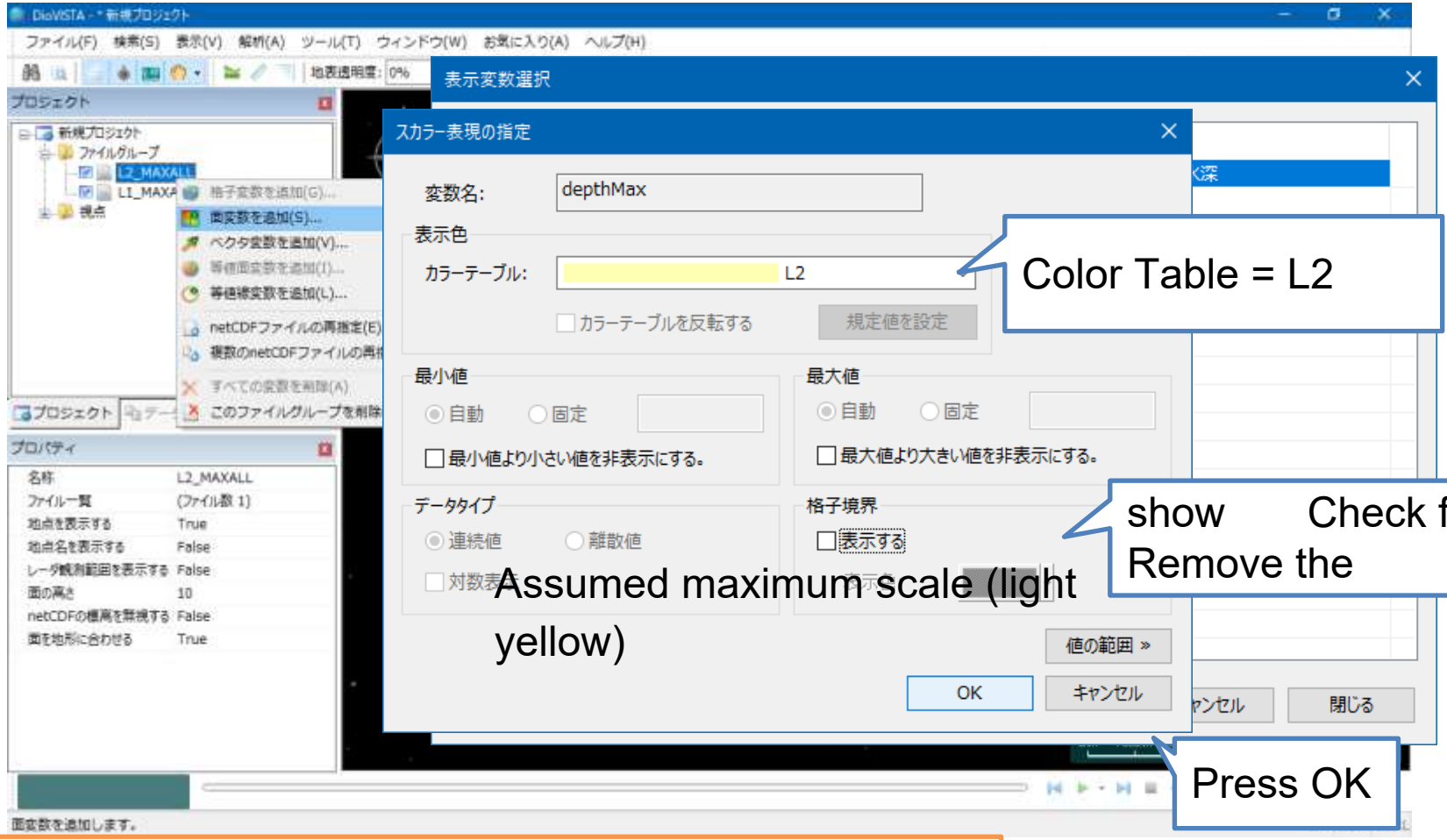
Display of maximum immersion depth



Use the same procedure to specify the L1_MAXALL.
Color Table = L1

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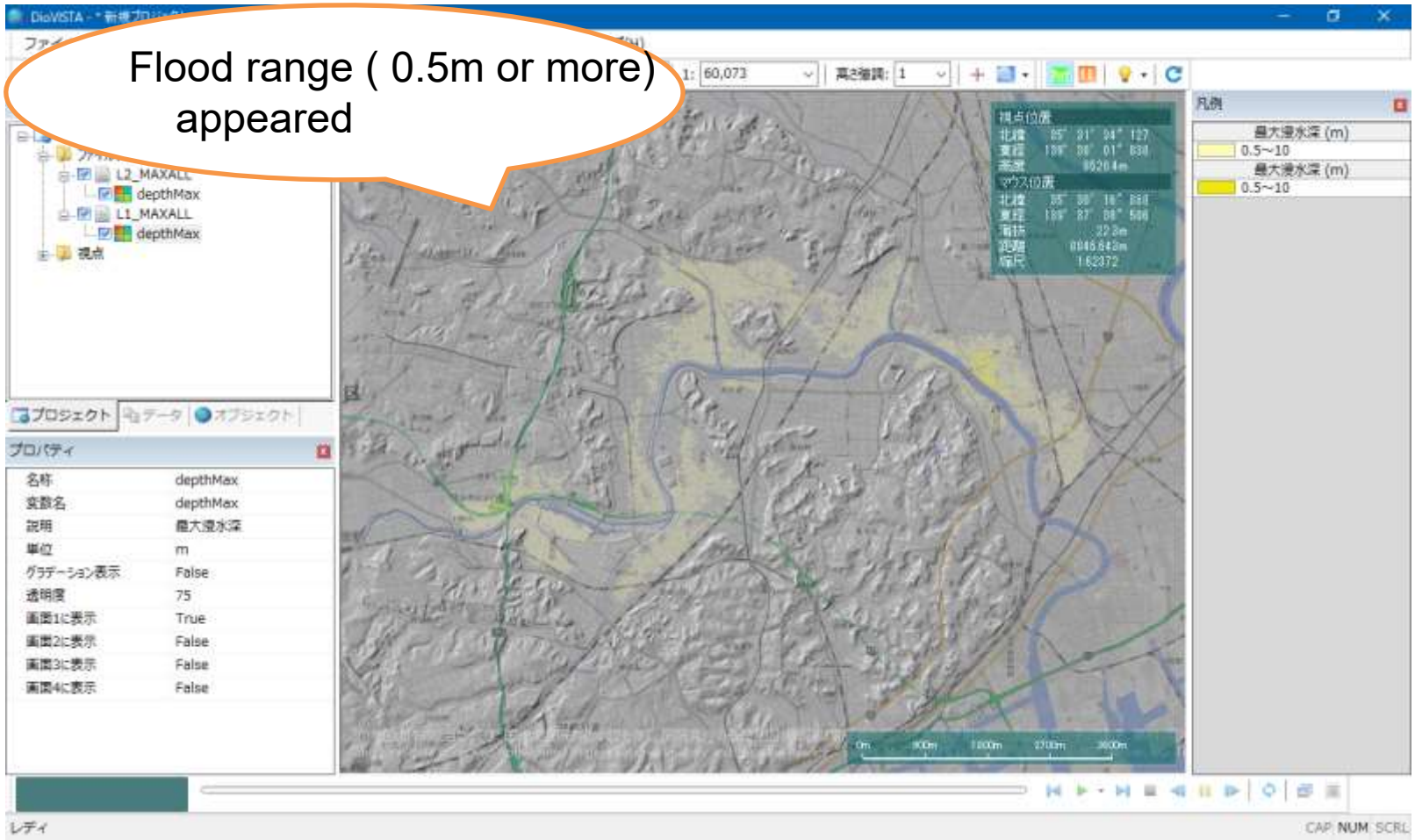
Display of maximum immersion depth



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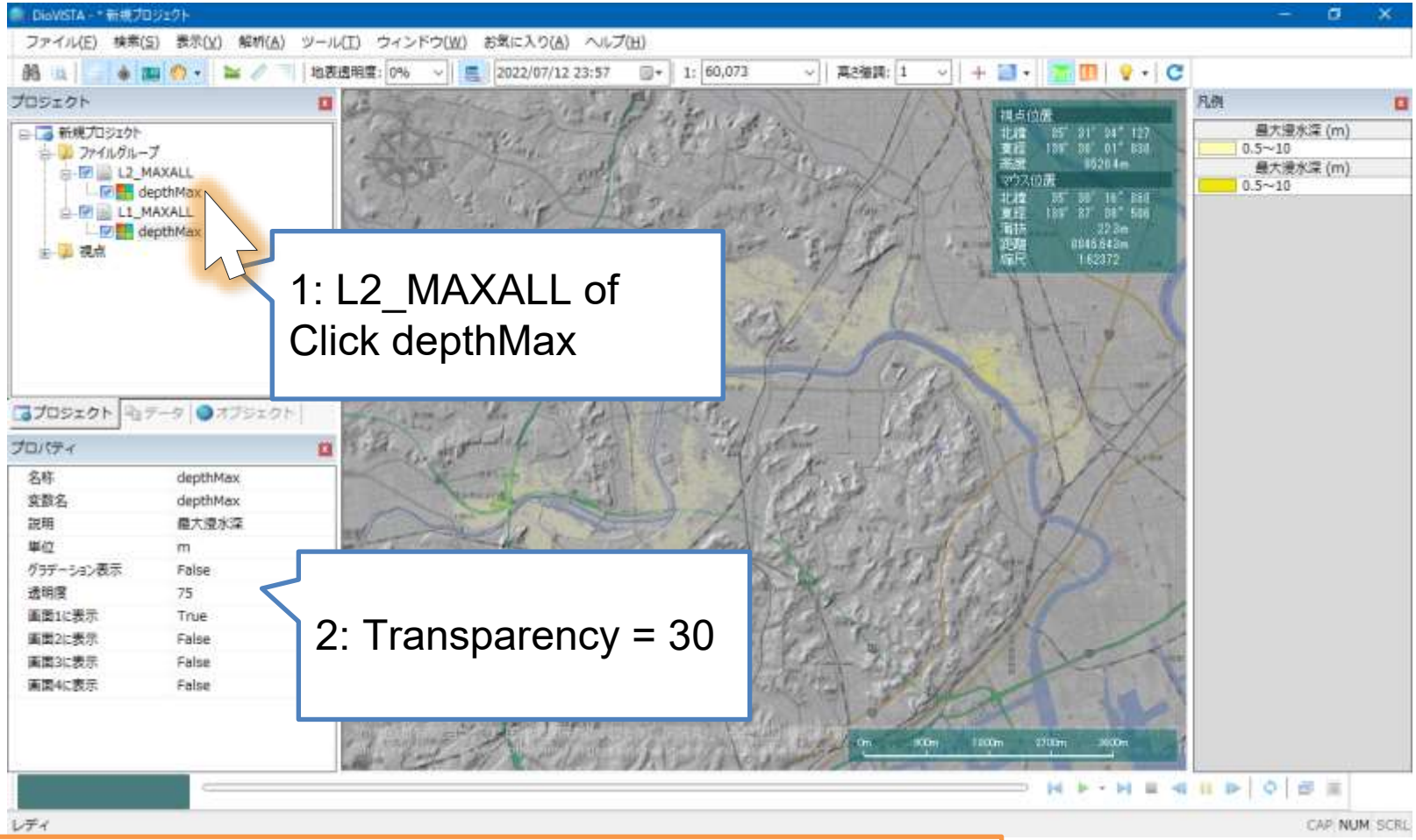
Display of maximum immersion depth



Use the same procedure to specify the transparency of the L1_MAXALL.

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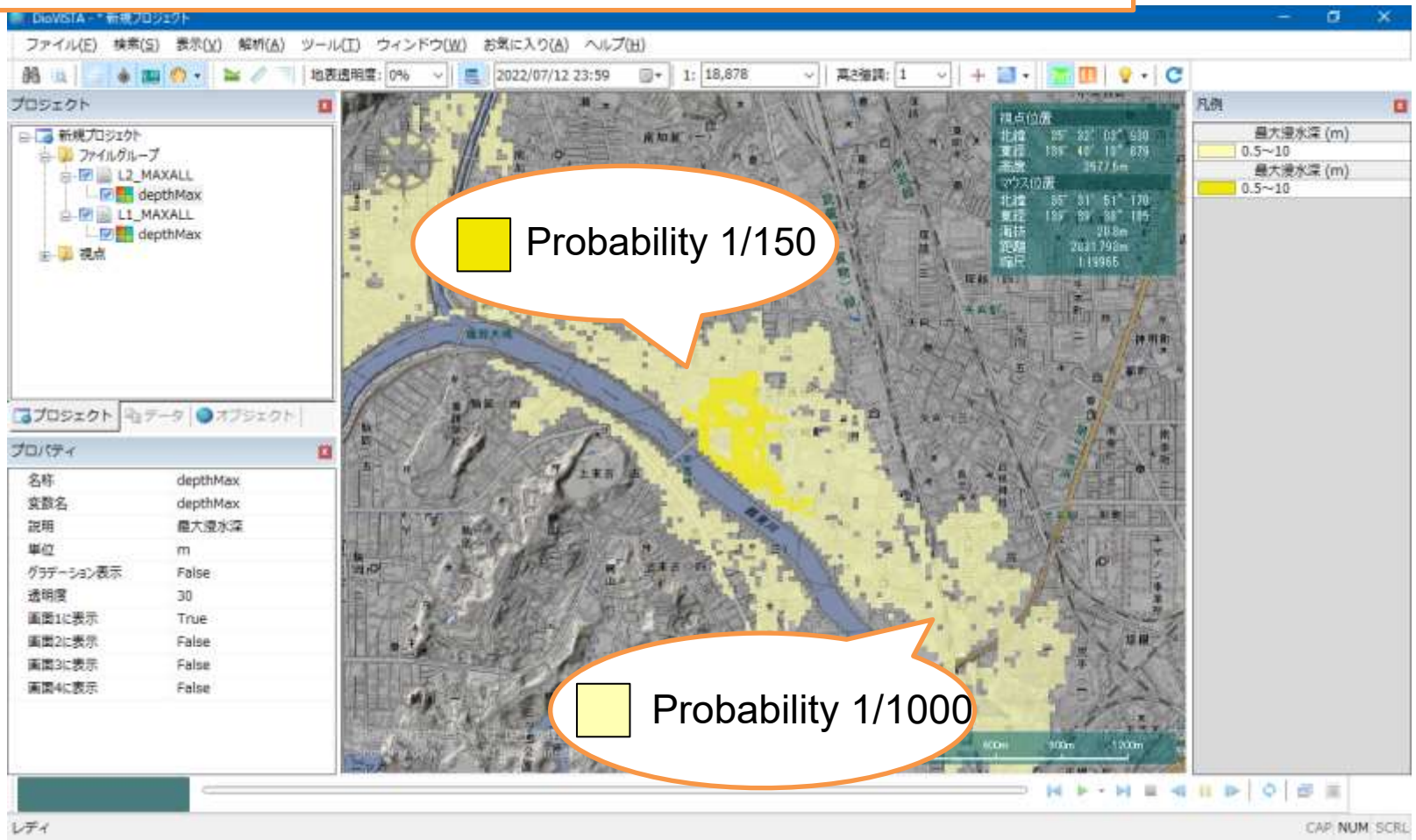
Display of maximum immersion depth

Flood risk map (inundation depth of 50 cm or more) The maximum inundation depth with different occurrence probabilities is superimposed.



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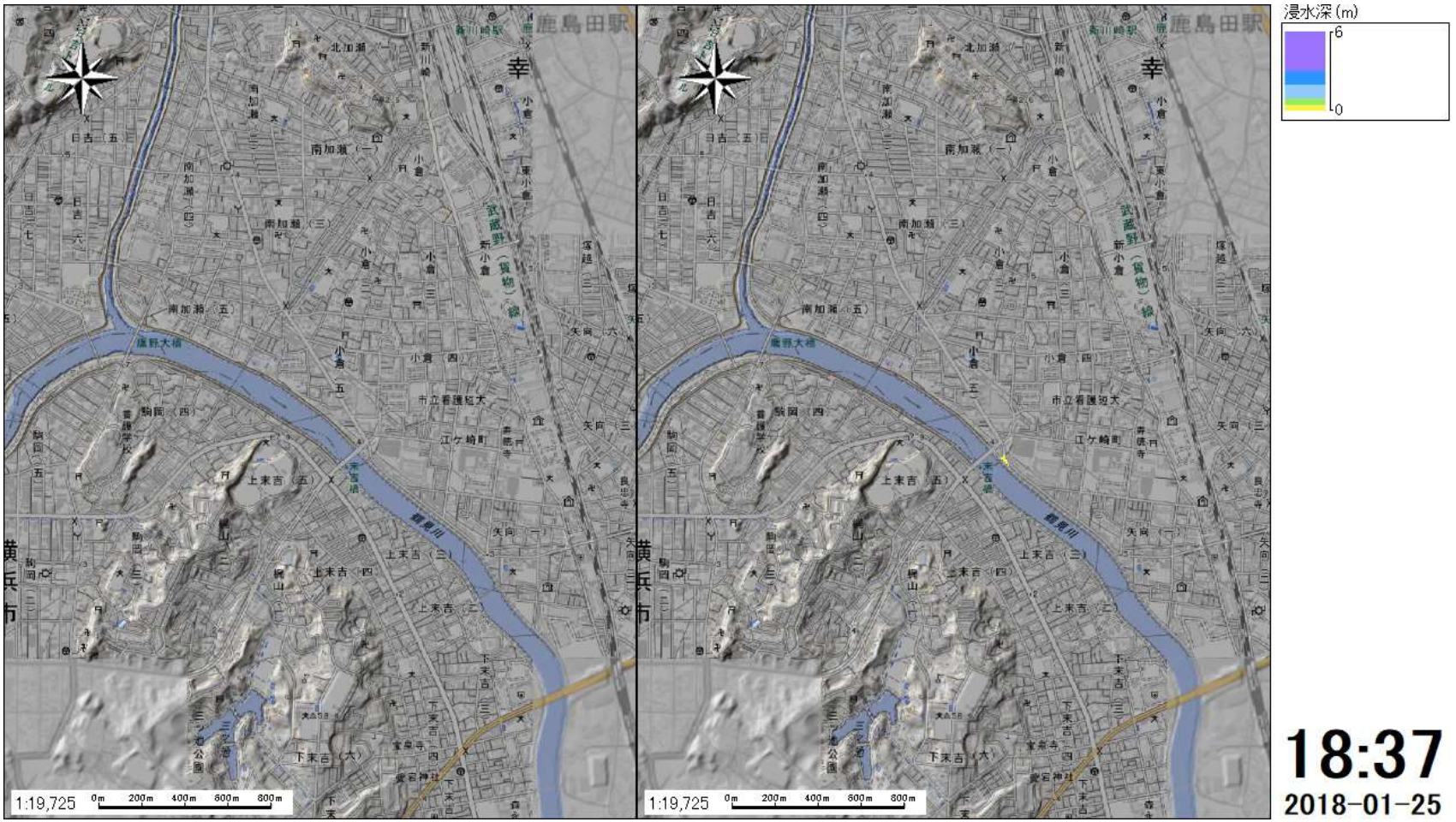
Application: Making Comparison Videos

Design scale (probability 1/150 years)　　Expected maximum scale



Compare simulations with different flow scales for the same levee failure scenario

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