

Tsunami Trace Database

Operation Manual

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1. Basic Operations of the System

1.1. Starting the System

- i) Start the web browser (Internet Explorer).

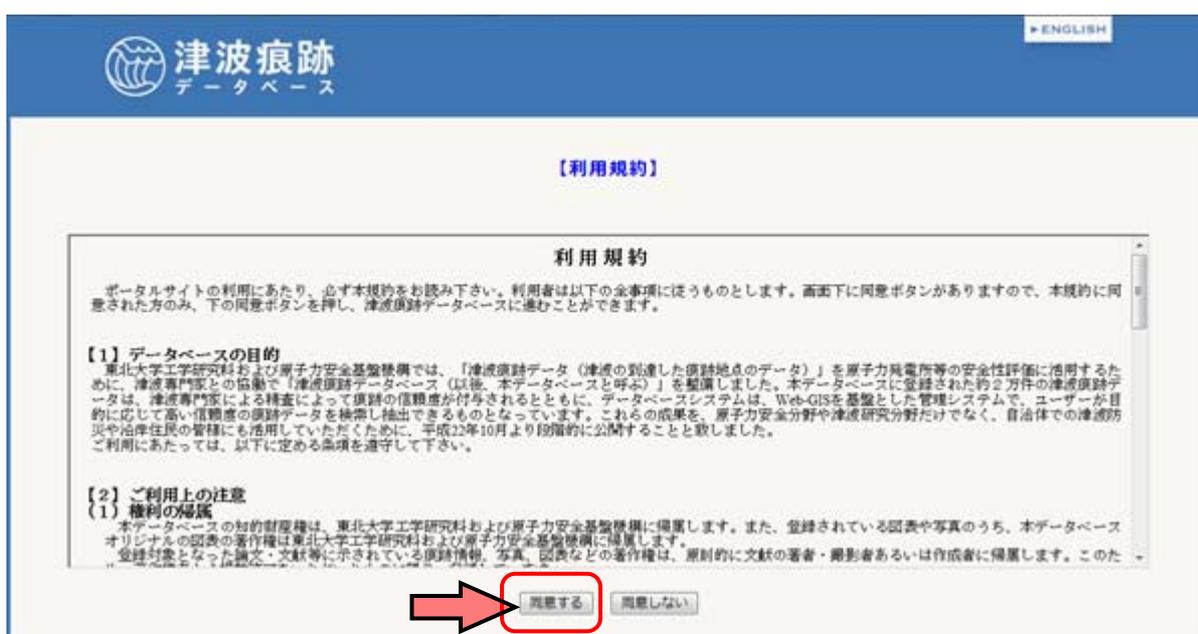


- ii) Enter the following address for the “Tsunami Trace Database” in the web browser’s address bar.

<http://tsunami-db.irides.tohoku.ac.jp/>

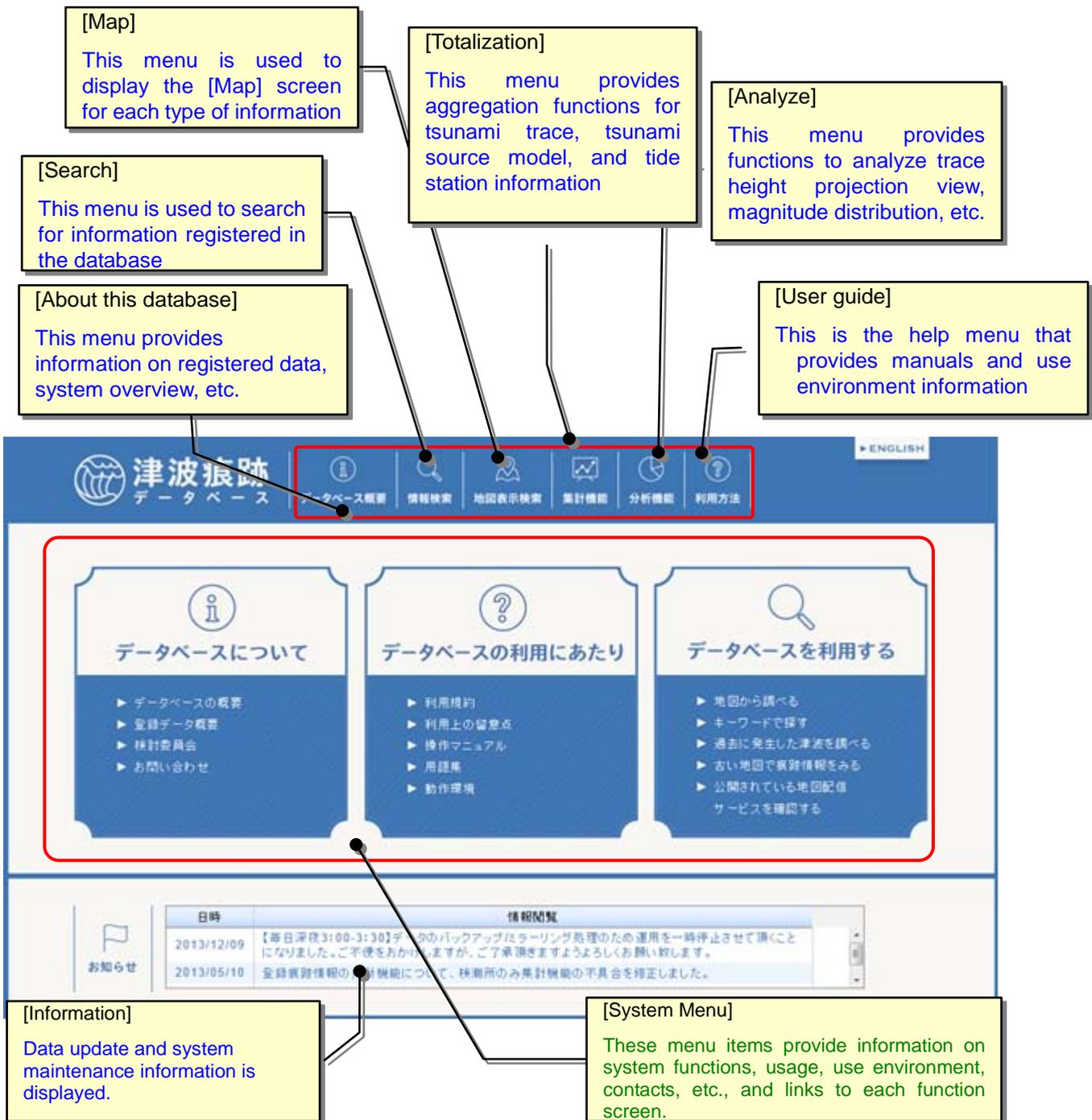


- iii) The [Terms of Use] screen of the “Tsunami Trace Database” will appear. Read through the Terms of Use, and if you agree to them, click on the [Agree] button.



iv) The [Top Page] screen of the “Tsunami Trace Database” will be displayed.

The Top Page structure is as follows:



【System Menu】

メニュー	サブメニュー	表示画面	備考
 データベース概要	Top page	Displays the [Top page] screen	
	Overview	Displays the [System Overview] screen	
	Registration data	Displays the [Registration Data Overview] screen	
	Glossary	Displays a PDF of the Glossary	
	Review Committee	Displays the [Review Committee] screen	
	Terms of use	Displays the [Terms of Use] screen	
	Contact us	Displays the [Contact] screen	
 情報検索	Tsunami info	Displays the [Tsunami Information Search] screen	
	Document info	Displays the [Document Information Search] screen	
	Trace info	Displays the [Trace Information Search] screen	
	Source model info	Displays the [Tsunami Source Model Search] screen	
	Model document info	Displays the [Model Document Information Search] screen	
	Tide station info	Displays the [Tide Station Information Search] screen	
 地図表示検索	Trace info	Displays the nationwide [Map] screen	Displays trace patterns only
	Tide station info	Displays the nationwide [Map] screen	Displays tide stations only
	Historical maps	Displays the [Old Map Index] screen	
	Tsunami Source	Displays the nationwide [Map] screen	Displays tsunami source locations only
 集計機能	Trace	Displays the [Trace data totalization] screen	By tsunami name/By document name/By prefecture/By trace pattern/By measuring method

	Source model	Displays the [Model data totalization] screen	
	Tide station	Displays the [Tide station totalization] screen	
 分析機能	Trace projection	Displays the [Map] screen when [Trace projection] on the [Analyze] panel is selected	
	Magnitude distribution	Displays the [Map] screen when [Magnitude distribution] on the [Analyze] panel is selected	
 利用方法	User manual	Displays a PDF of the User Manual on a separate screen	
	Environment	Displays the [Operating Environment] screen	
	Consideration	Displays the [Consideration] screen	

[System Use Environment]

In order to use this system, please make sure that your PC environment satisfies the following conditions:

Table 1-1. System Use Environment

Item	Condition
Network environment	Internet connection is required.
Client hardware configuration	CPU: Intel Pentium, Intel Core 2 or equivalent
	Memory: 2 GB or more The specified web browser must run normally on a specified OS.
OS	Windows7, Windows8, Windows10
Web browser	Microsoft Internet Explorer 9.0 or higher* * Disable the compatibility view.

1.2. Terminating the System

- i) Click the [x] button in the upper-right corner of the browser to close the program.



1.3. Map Operations

1.3.1. Starting the Map Screen

- i) Select a desired menu from the [Map] menu.



- ii) The [Map] screen will be displayed.

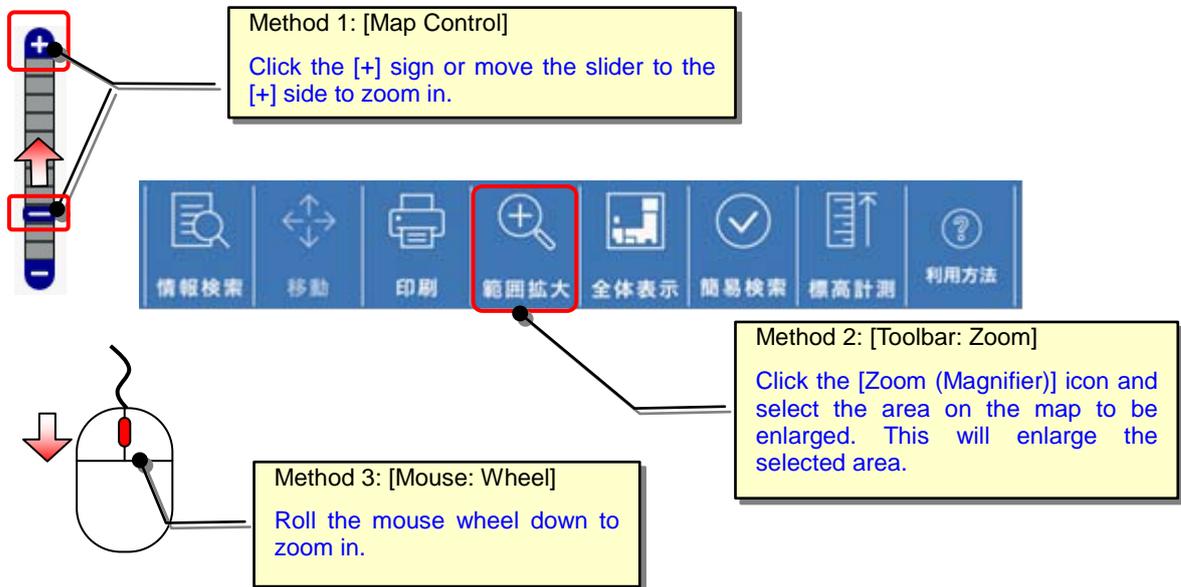
The Map screen structure is as follows:



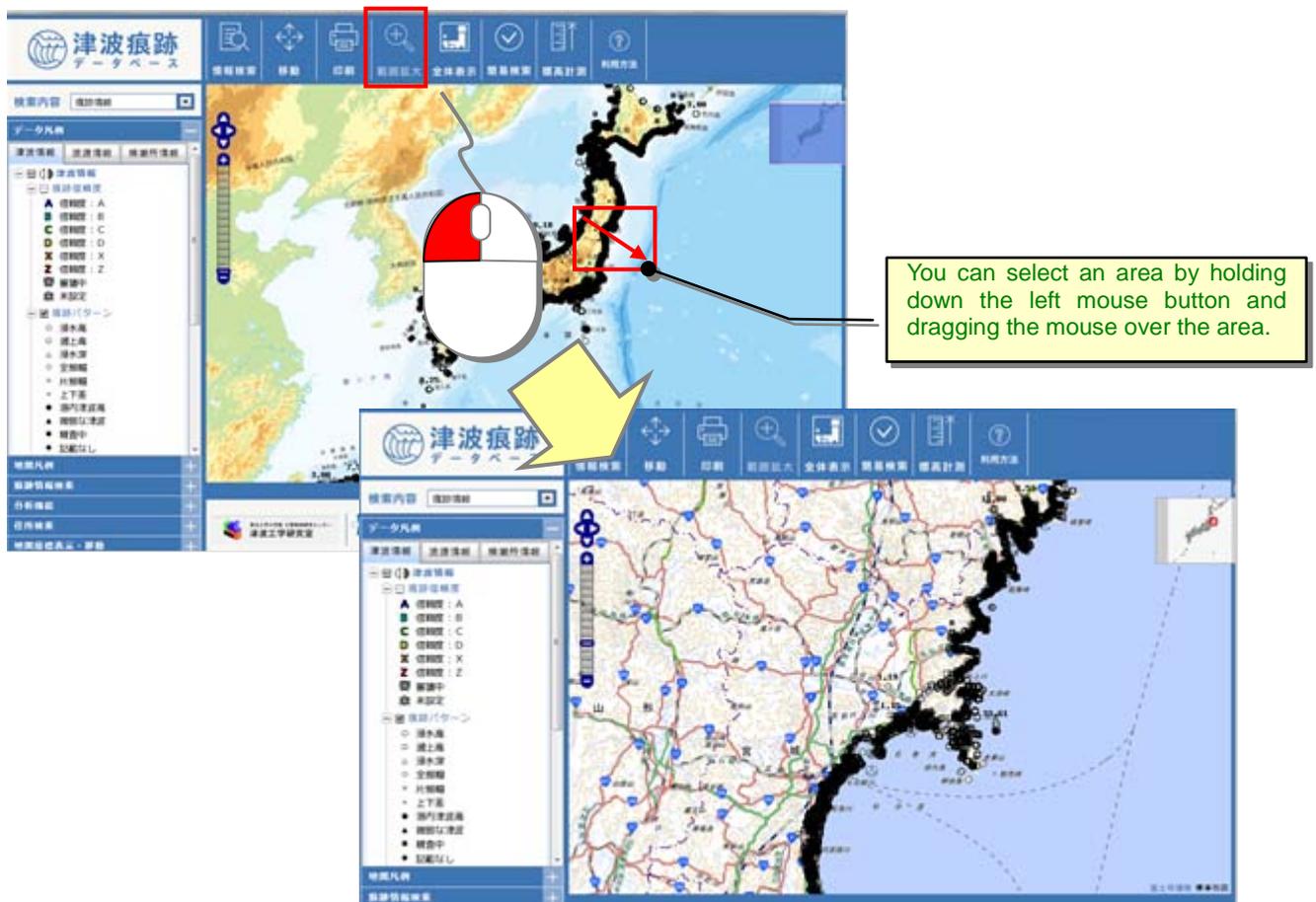
1.3.2. Zooming In/Out on a Map, Specifying the Scale of a Map

(1) Zooming in on a map

i) The following three methods are available to zoom in on a map.

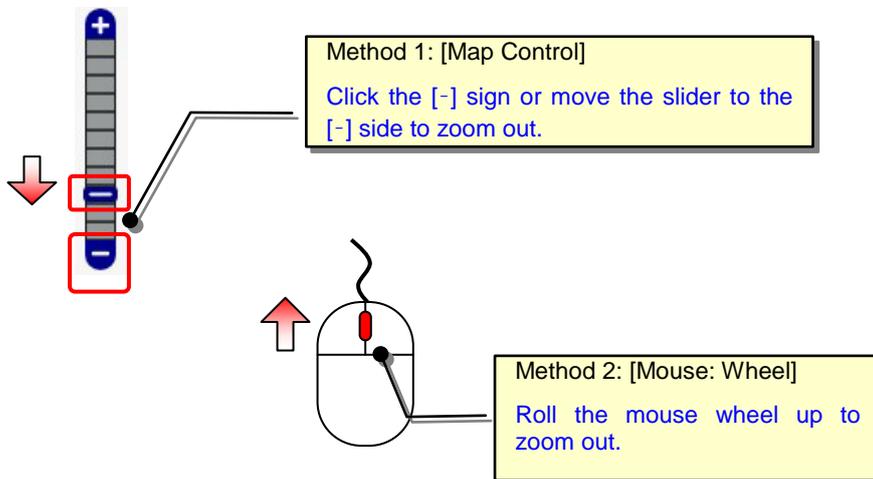


Operation Example: Zoom In

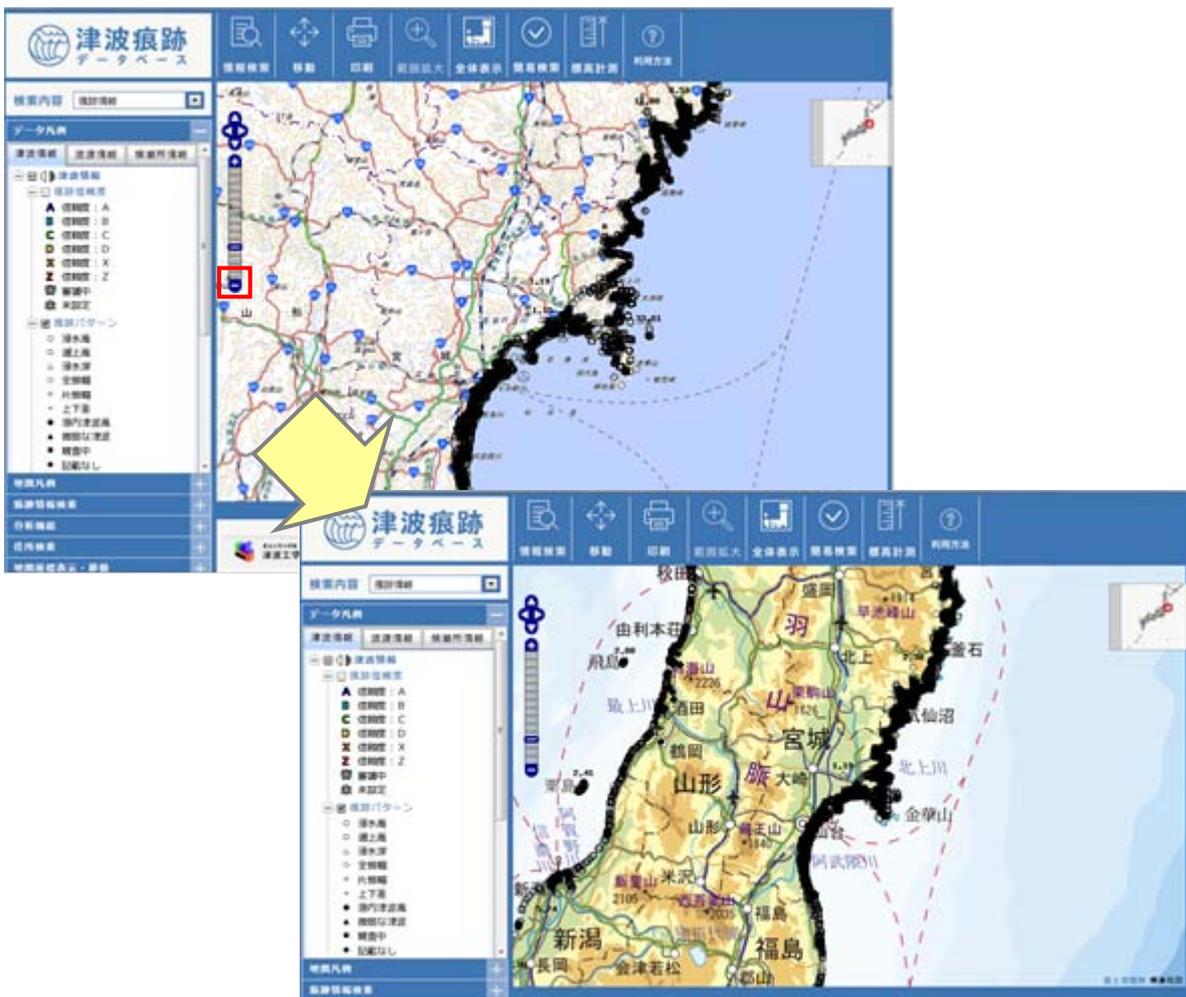


(2) Zooming out on a map

- i) To zoom out on a map, click the [-] sign of the map control or move the slider to the [-] side, or roll the mouse wheel up.

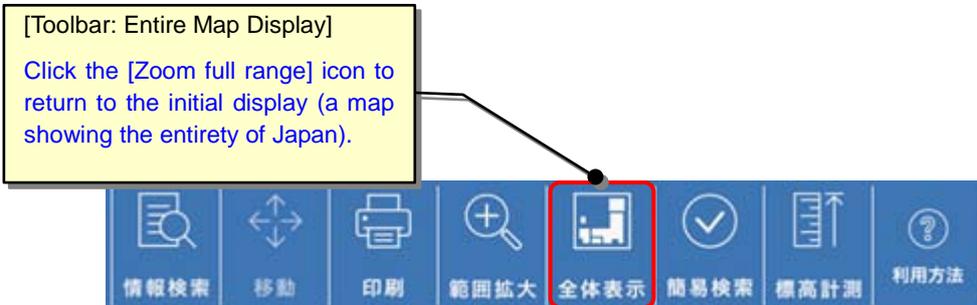


Operation Example: Zoom Out



(3) Displaying the entire map (initial display)

- i) To return to the initial map showing the entirety of Japan, click the [Zoom full range] icon on the toolbar.



(4) Changing the background of a map

- i) To change the background map, select a background type you want to display from [GSI Maps] in [Map Legend list] on the Operation Panel.



1.3.3. Moving a Map Image

- i) To navigate around a map, use the map control arrow buttons or click the [Move] icon on the toolbar.

Method 1: [Map Control]
Click the arrow that points in the direction you wish to move the map.

Method 2: [Toolbar: Move]
Click the [Move] icon to start the move mode.

- ii) When the Address panel appears, enter the name of the place, public facility, etc. you want to display and click the [Search] button. If there are multiple results, they are displayed in a list. Click the desired one to move to the location on the map

[Move]
"Grab" the map with your mouse and drag it to move the view.

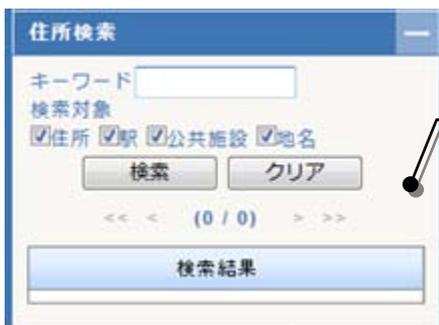
1.3.4. Displaying a Map from a Place Name, etc.

- i) You can display a specific place, public facility, etc. on a map. Click [Address] on the Operation Panel.

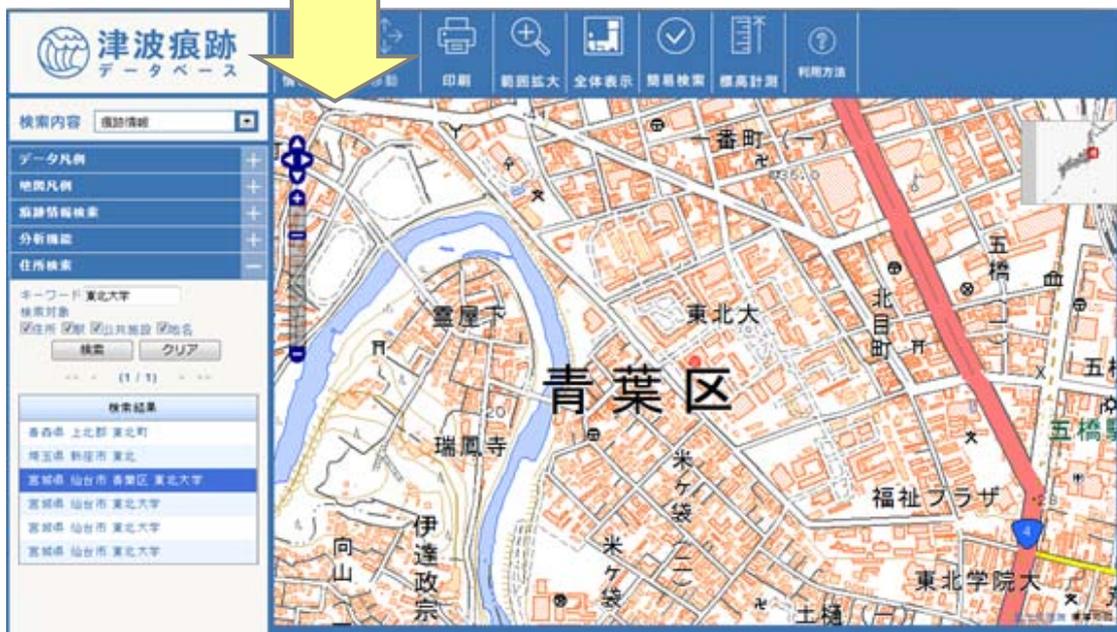


[Operation Panel: Address]
Click [Address] to display the Address panel.

- ii) When the Address panel appears, enter the name of the place, public facility, etc. you want to display and click the [Search] button. If there are multiple results, they are displayed in a list. Click the desired one to move to the location on the map.



[Address Search window]
Enter the address you want to display.
A list of addresses that partially match the entered value will be displayed.



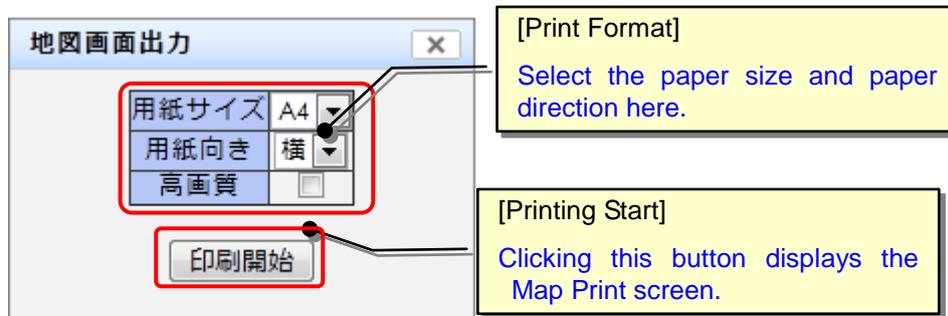
This address search system utilized CSiS “Simple geocoding experiment service” (CSiS: Center for Spatial Information Science , The University of Tokyo)

1.3.5. Outputting a Map Image

- i) You can print the map being displayed. Click the [Print] icon on the toolbar.



- ii) When the Map screen output window appears, select the paper size and paper direction, and then click the [Printing Start] button.



* A high image quality cannot be achieved with the maximum scale.

- iii) The Map Print screen appears and the map is printed. The print range can also be adjusted on the Map Print screen.



1.3.6. Displaying Trace Information or Old Map Image on a Map

(1) Displaying Trace Information on a Map

- i) To display trace information on a map, place check marks in the “Trace info” in [Data Legend list] on the Operation Panel the trace information display patterns under “Tsunami Information” in the [Layer List].



The layer names and display patterns of trace information are as follows:

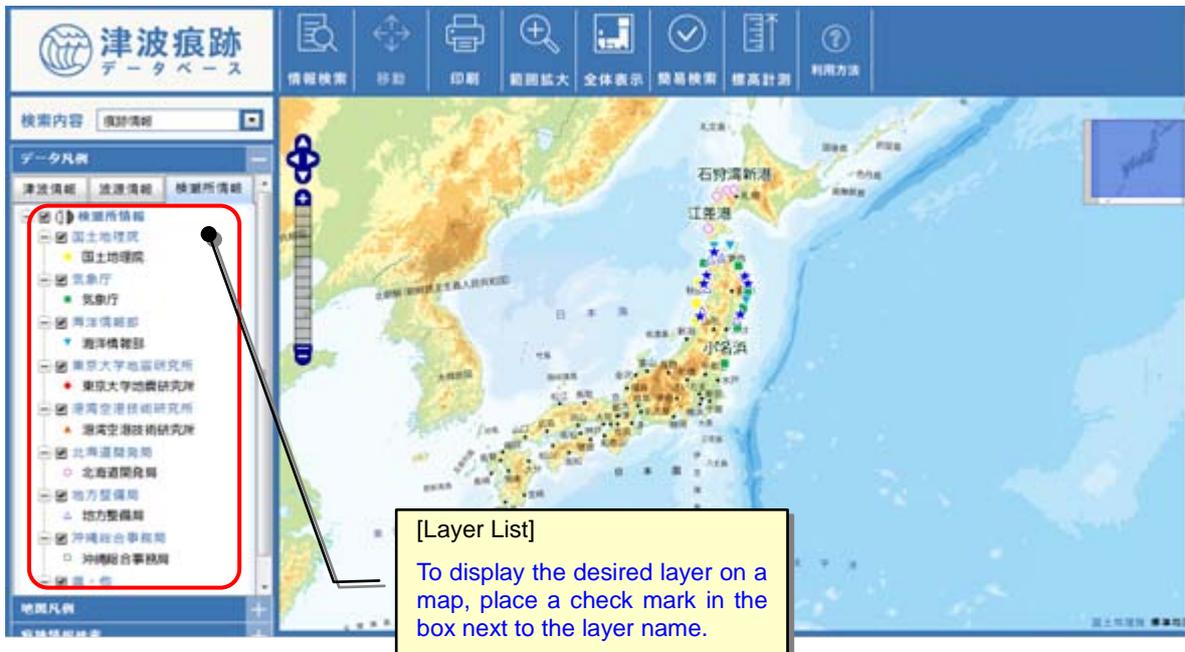
* For the trace confidence level, see [About this database] – [Glossary].

<input type="checkbox"/> 痕跡信頼度	<input type="checkbox"/> 痕跡パターン	<input type="checkbox"/> 文献記載の痕跡高
A 信頼度 : A	○ 浸水高	● 1 m未満
B 信頼度 : B	□ 遡上高	● 1 m以上～2 m未満
C 信頼度 : C	△ 浸水深	● 2 m以上～5 m未満
D 信頼度 : D	◇ 全振幅	● 5 m以上～10 m未満
X 信頼度 : X	× 片振幅	● 10 m以上～
Z 信頼度 : Z	+ 上下差	○ 未設定
罫 精査中	● 港内津波高	
象 未設定	▲ 微弱な津波	
	■ 精査中	
	◆ 記載なし	
	▼ 不明	

* If the legend is not clearly visible, adjust the visibility by [Changing the background of a map](#)

(2) Displaying Tide Station Information on a Map

- i) To display tide station information on a map, place check marks in the appropriate boxes next to the administrative organizations under “Tide station info” in [Data Legend list] on the Operation Panel.

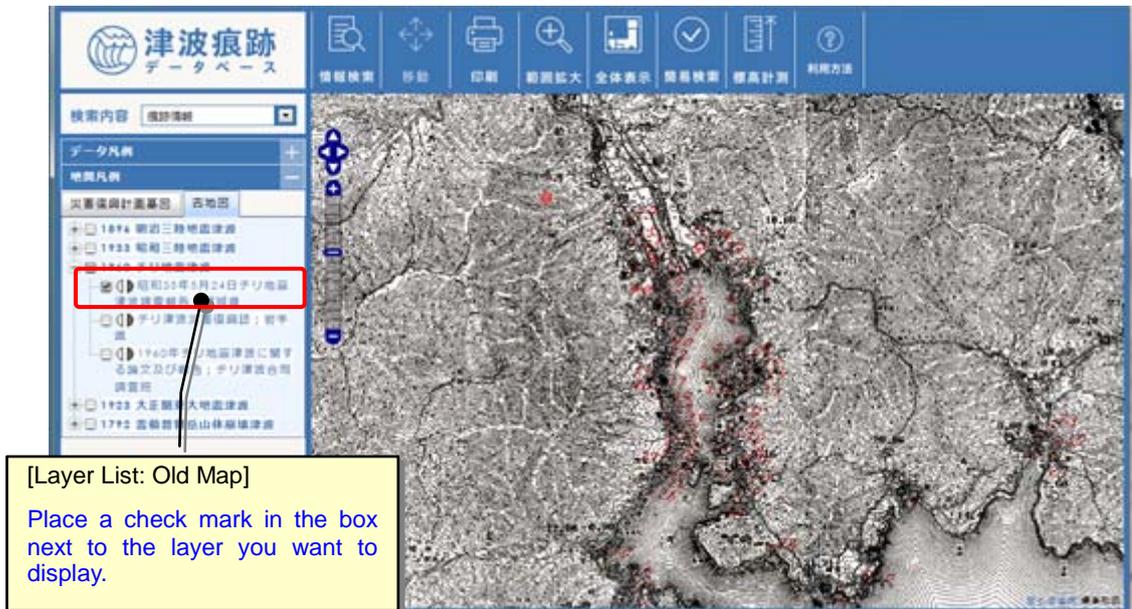


The layer names and contents are as follows:

- 国土地理院
 - 国土地理院
- 気象庁
 - 気象庁
- 海洋情報部
 - ▼ 海洋情報部
- 東京大学地震研究所
 - ◆ 東京大学地震研究所
- 港湾空港技術研究所
 - ▲ 港湾空港技術研究所
- 北海道開発局
 - 北海道開発局
- 地方整備局
 - △ 地方整備局
- 沖縄総合事務局
 - 沖縄総合事務局
- 県・他
 - ★ 県・他

(3) Displaying an Old Map

- i) To display an old map in the background, place a check mark in the box next to the source document name of the old map you want to display under “Old map” in [Map Legend list] on the Operation Panel



- ii) To compare an old map with the background map, click the transparency  icon for the old map to display the old map in transparent mode. This allows you to compare the two maps.



1.3.7. Viewing Detailed Trace Information on a Map

(1) Viewing detailed trace information

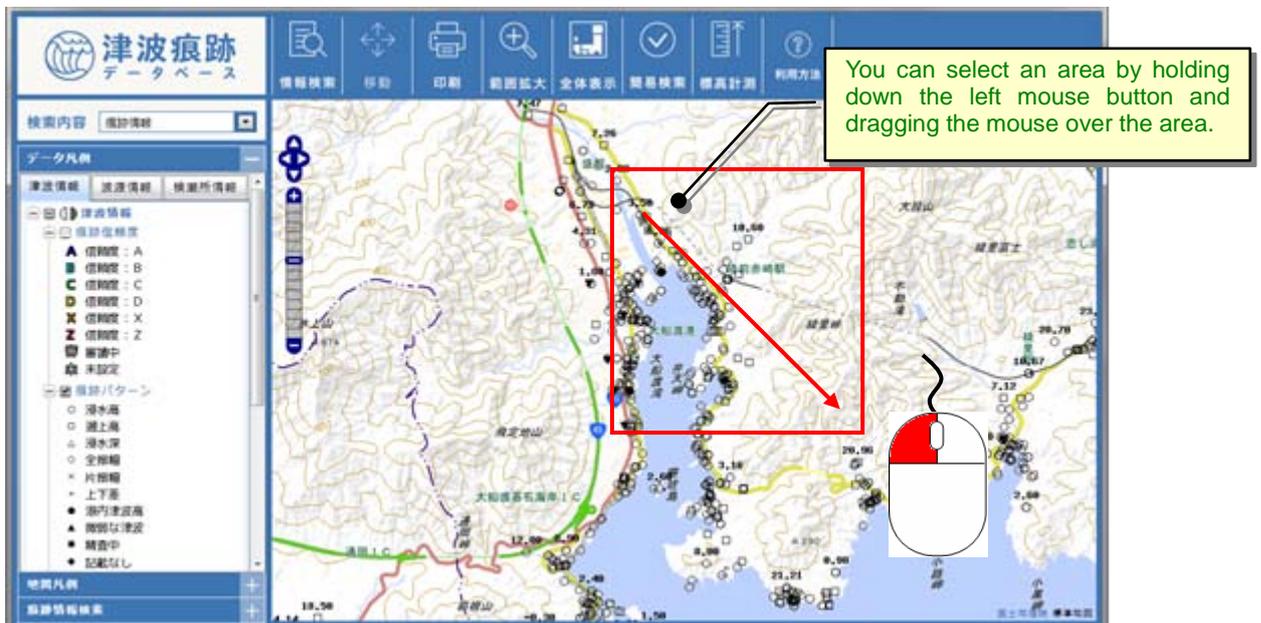
You can view detailed trace information on a map.

i) Display the trace information on the map. (Refer to [“2.3.6. Displaying Trace Information or Old Map Image on a Map”](#)).

ii) Select “Trace info” from [Display panel], and click the [Data Search] icon to start the data search mode



iii) To view detailed trace information on a specific area, select the area on the map by dragging and dropping the mouse.



iv) Information on the traces included in the specified area will be displayed in a list on a separate screen.

To view the detailed trace information, click the [Detail] button next to the trace information you want to view in the list.

*When you display the detailed trace information for the first time, a questionnaire screen will be displayed. We would highly appreciate it if you could spend a short time answering the questionnaire.

The screenshot displays the '津波痕跡 データベース' (Tsunami Traces Database) interface. At the top, there are navigation icons for 'データベース概要', '情報検索', '地図表示検索', '集計機能', '分析機能', and '利用方法'. The main section is titled '【痕跡情報検索】' (Trace Information Search). Below this, there are search filters for '津波名・文献名' and '期道番号'. The search results are shown in a table with the following columns: '情報種別', '津波名', '登録時の市町村名', '文献時代の市町村名', '文献記載の地名', and '痕跡パターン'. A red box highlights the '詳細' (Detail) button for the first row. An inset window shows the detailed information for a specific trace, including '文献記載位置情報', '位置情報', '地名備考', and '痕跡位置の特定'.

情報種別	津波名	登録時の市町村名	文献時代の市町村名	文献記載の地名	痕跡パターン
地図 詳細	1793寛政三陸地震津波	大船渡市	大船渡市	大船渡	浸水高
地図 詳細	1793寛政三陸地震津波	大船渡市	大船渡市	大船渡	浸水高
地図 詳細	1793寛政三陸地震津波	大船渡市	大船渡市	大船渡	浸水深
地図 詳細	1793寛政三陸地震津波	大船渡市	大船渡市	大船渡	浸水高
地図 詳細	1793寛政三陸地震津波	大船渡市	大船渡市	大船渡	浸水高
地図 詳細	1856安政三陸(八戸沖)地震津波	大船渡市	大船渡市	大船渡	浸水高
地図 詳細	1856安政三陸(八戸沖)地震津波	大船渡市	大船渡市	大船渡	浸水高
地図 詳細	1856安政三陸(八戸沖)地震津波	大船渡市	大船渡市	大船渡	浸水深
地図 詳細	1894関東半島南東沖地震津波	大船渡市	大船渡市	大船渡	浸水高
地図 詳細	1894関東半島南東沖地震津波	大船渡市	大船渡市	大船渡	浸水高
地図 詳細	1894関東半島南東沖地震津波	大船渡市	大船渡市	大船渡	浸水高
地図 詳細	1894	大船渡市	大船渡市	大船渡	浸水高

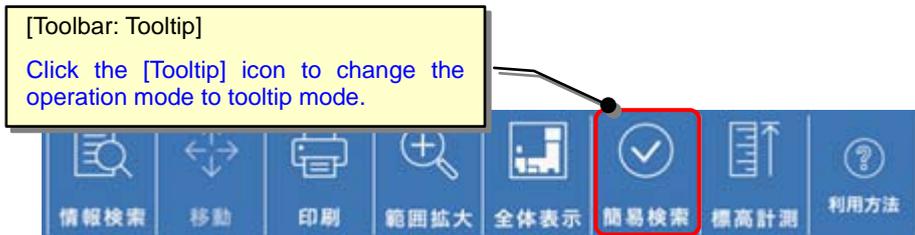
Point

Once a search has been completed and the trace information on the selected map area is displayed in a list, you can add search conditions to narrow down the map area. Click the [Clear] button to cancel the search conditions for the selected map area.

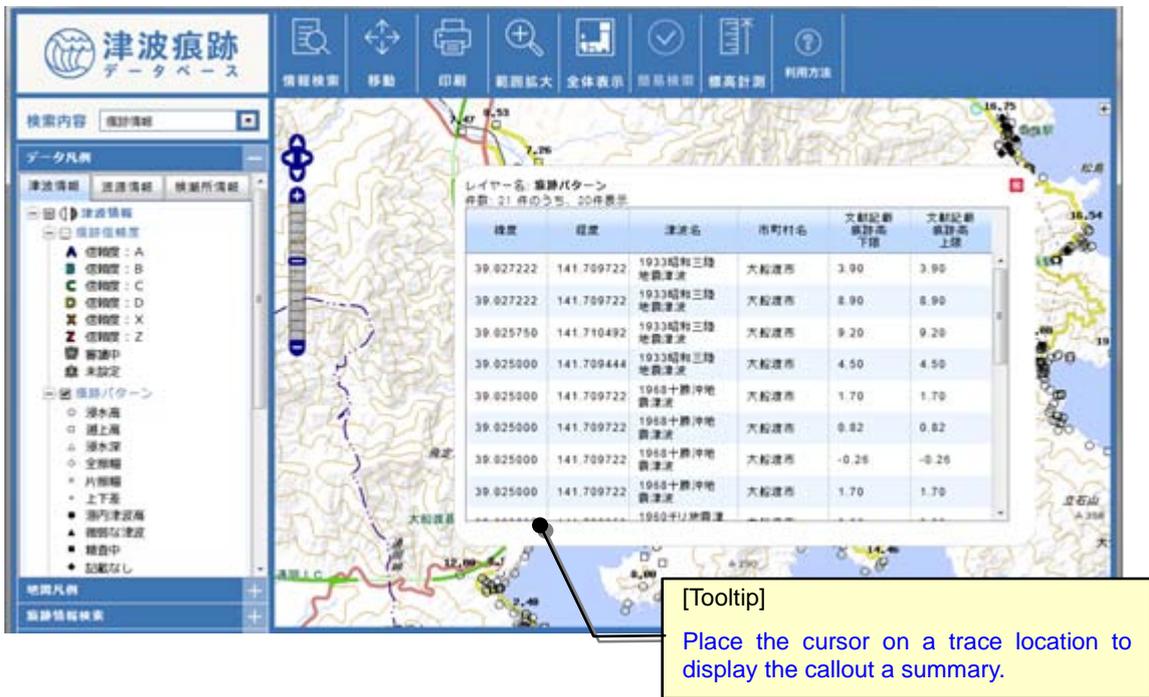
(2) Displaying Tooltip for Trace Information

Major items of trace information can be confirmed on the map without displaying the list or the detailed information screen.

- i) Display trace information on the map (Refer to “[2.3.6. Displaying Trace Information or Old Map Image on a Map](#)”).
- ii) Click the [Tooltip] icon on the toolbar to change the map operation mode to tooltip mode.



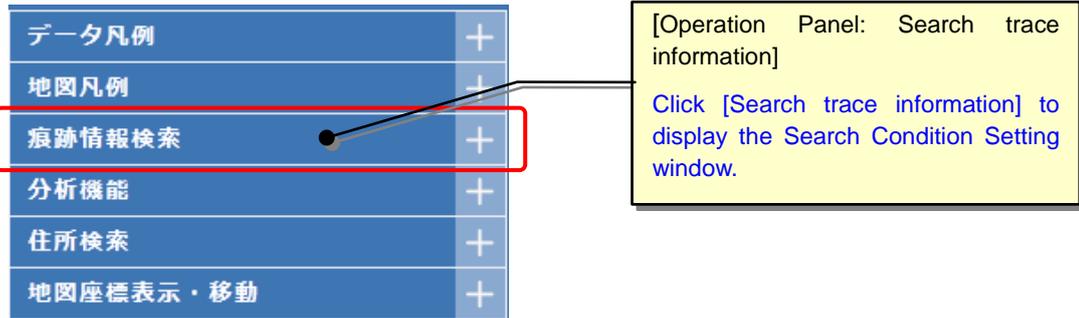
- iii) When the cursor rests on some trace information on the map for a certain period of time, the callout will display a summary of the trace information.



1.3.8. Displaying Trace Information with Search Conditions

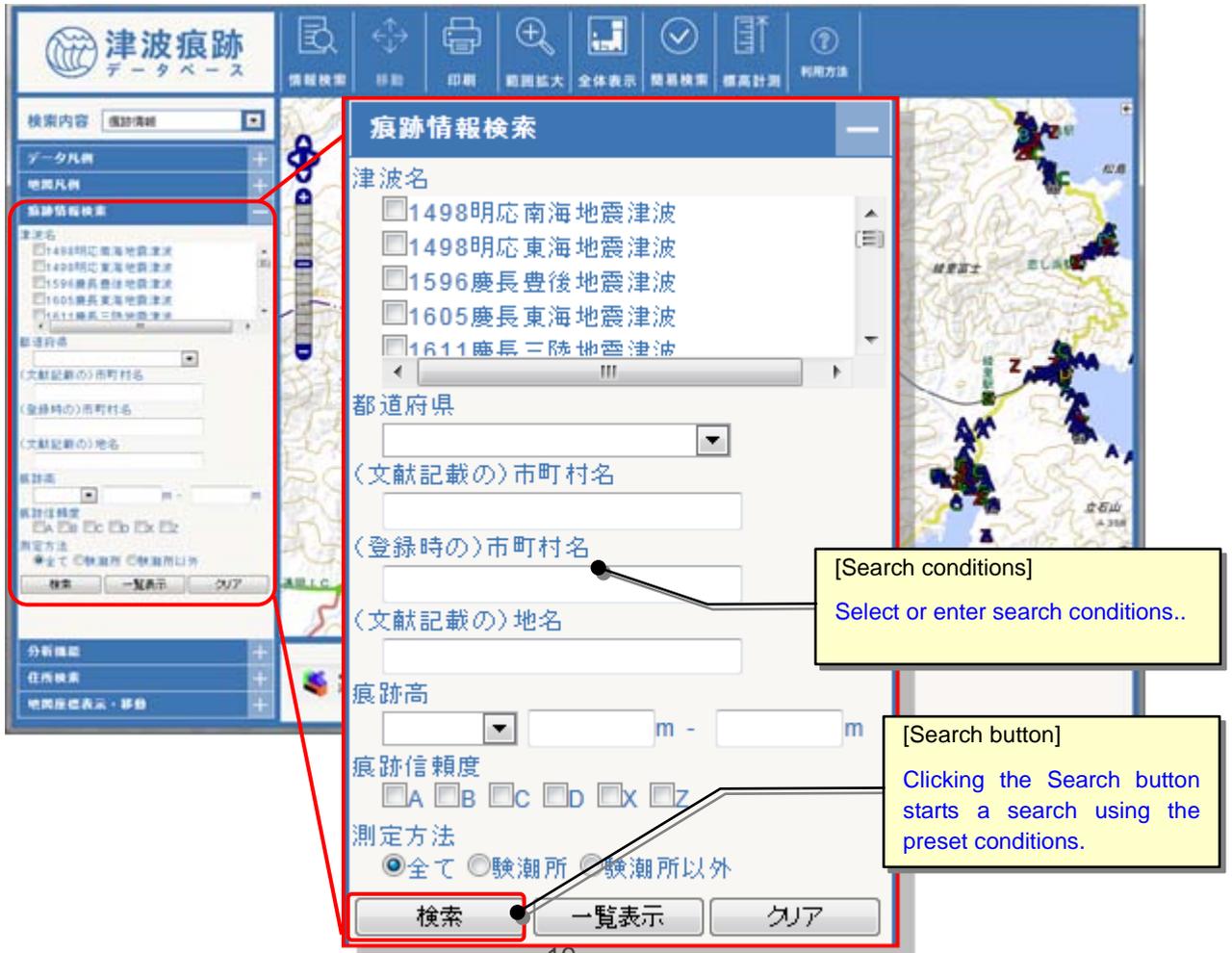
You can choose to set certain search conditions (such as keywords) and display only the trace information that satisfies those conditions on a map.

- i) Click the [Search] icon on the toolbar to display the Trace Information Condition Setting window.

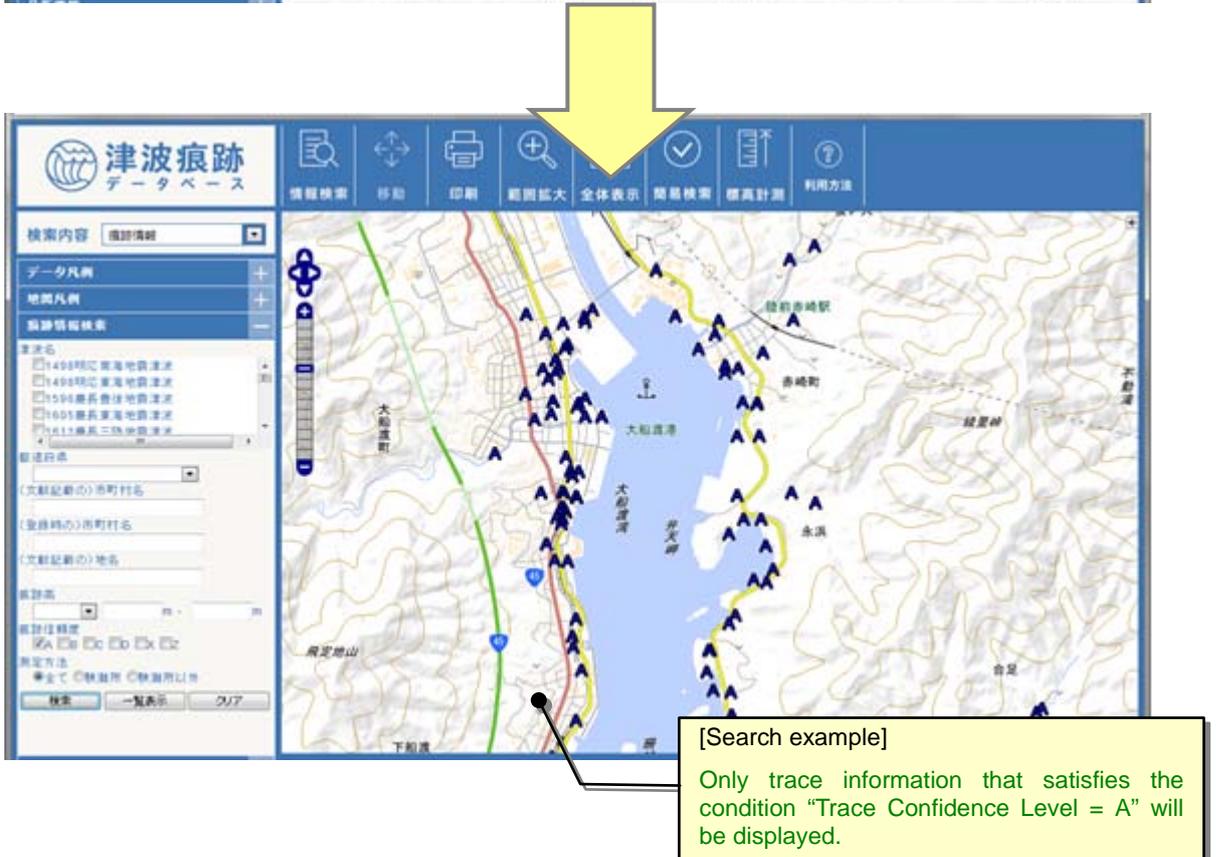
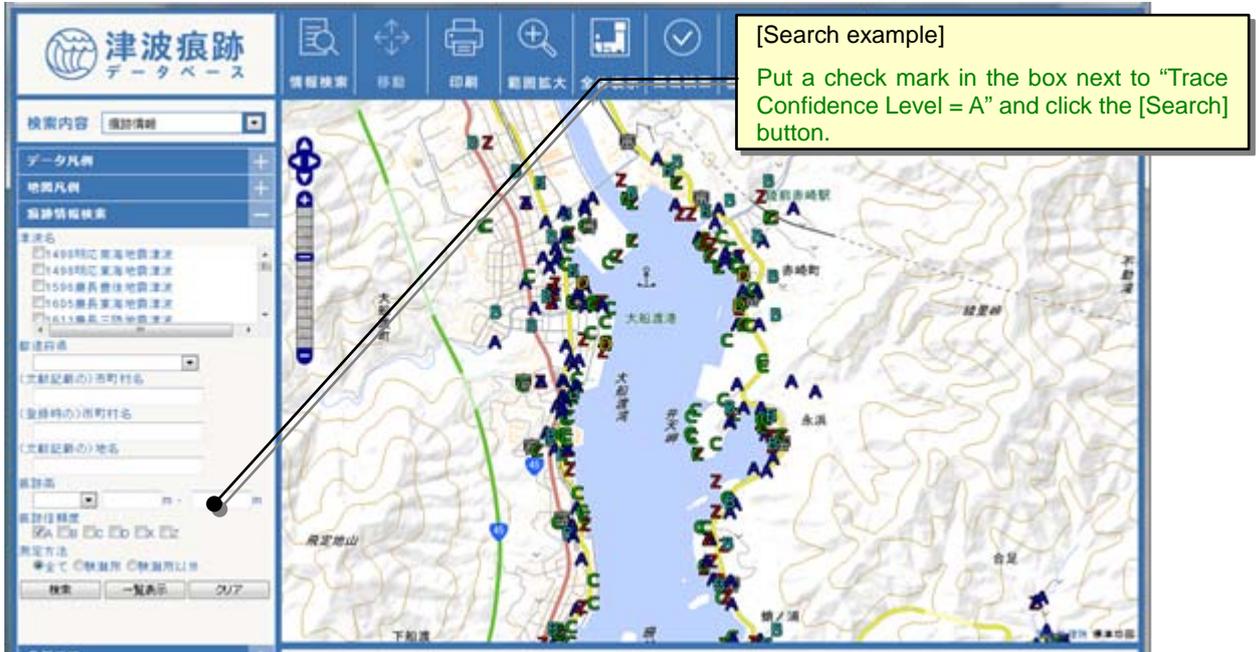


- ii) When the Search Condition Setting window appears, set conditions for the trace information you want to display on the map. Select the search item and enter one or more conditions.

* For the trace confidence level, see [About this database] – [Glossary].



- iii) When you click the [Search] button, only the trace information that satisfies the search conditions you have selected will be displayed on the map.

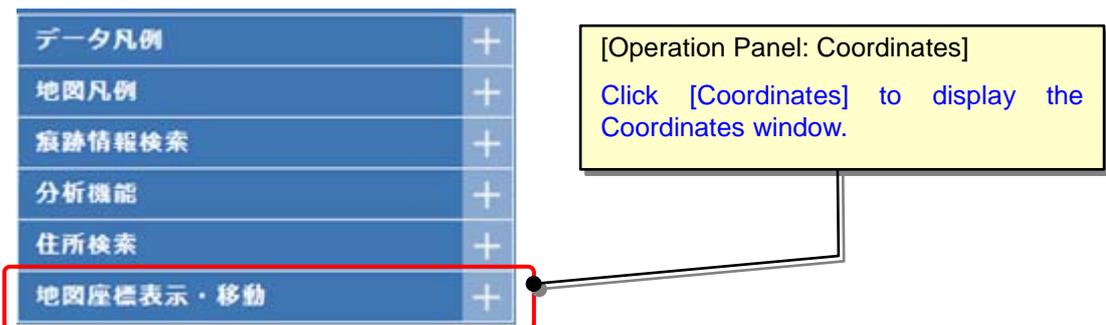


* For the trace confidence level, see [About this database] – [Glossary].

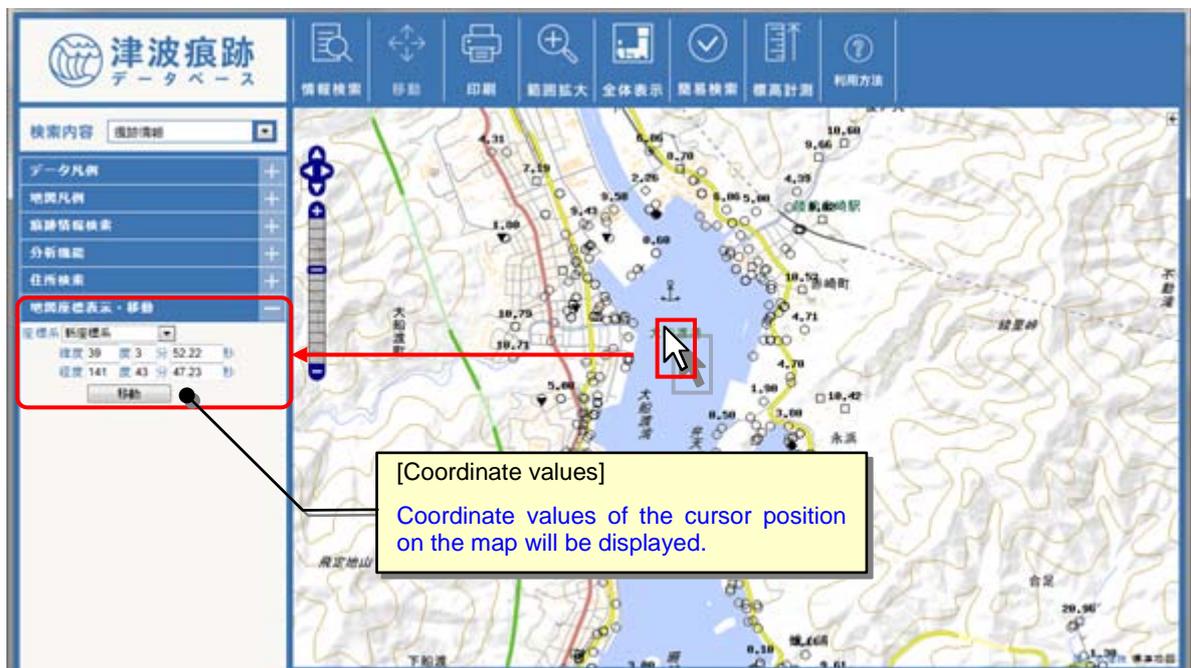
1.3.9. Displaying Coordinates / Moving to Specified Coordinates on a Map

You can display the coordinates of the position of the cursor on a map. You can also move to the coordinates you entered on the map.

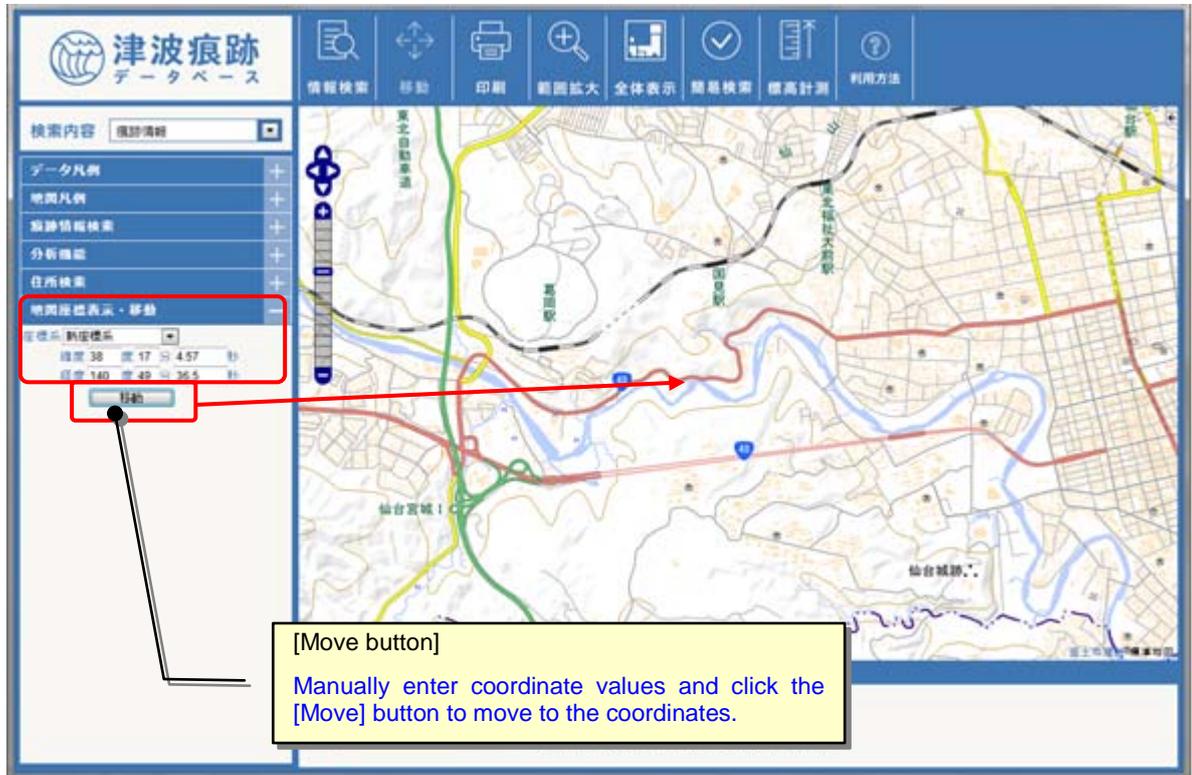
- i) Click the [Coordinates Display/Move] icon on the toolbar to display the [Coordinates] screen.



- ii) The coordinates (latitude and longitude values) of the position of the cursor on the map will be displayed in the Coordinates window.



- iii) Manually enter coordinates (latitude and longitude values) in the [Coordinates] window and click the [Move] button. A map centered on the coordinates will be displayed.



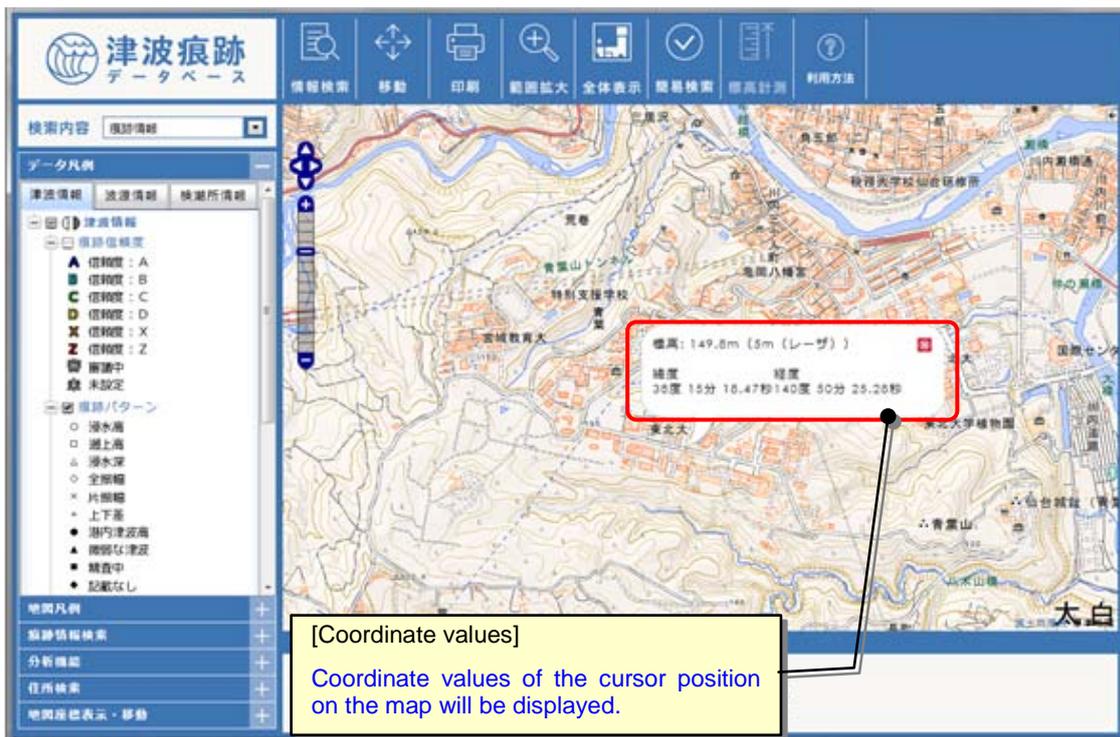
1.3.10. Checking the Altitude on a Map

You can check the altitude of the location where you click on the map.

- i) Click the [Altitude] icon on the toolbar to change the map operation mode to altitude measuring mode.



- ii) When you click the [Altitude] icon on the toolbar in altitude measuring mode, the altitude and coordinates (latitude and longitude values) of the location will be displayed.



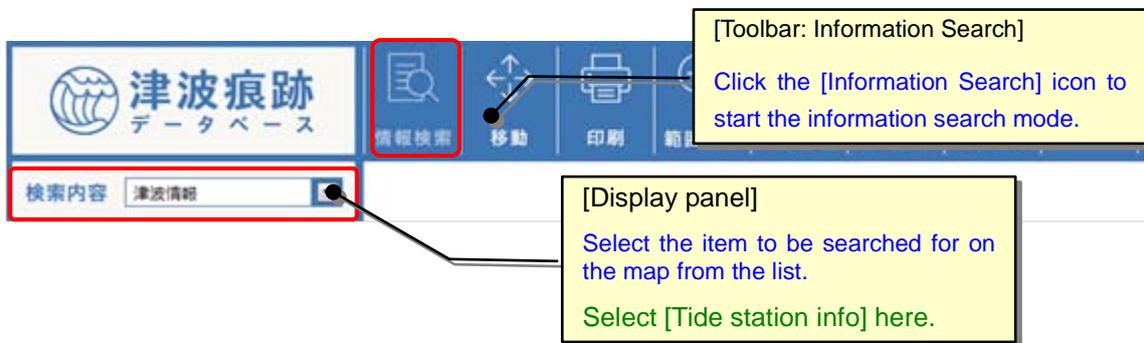
* Altitude information is based on the data of map service provided by the Geospatial Information Authority of Japan.

1.3.11. Viewing Detailed Tsunami Information on a Map

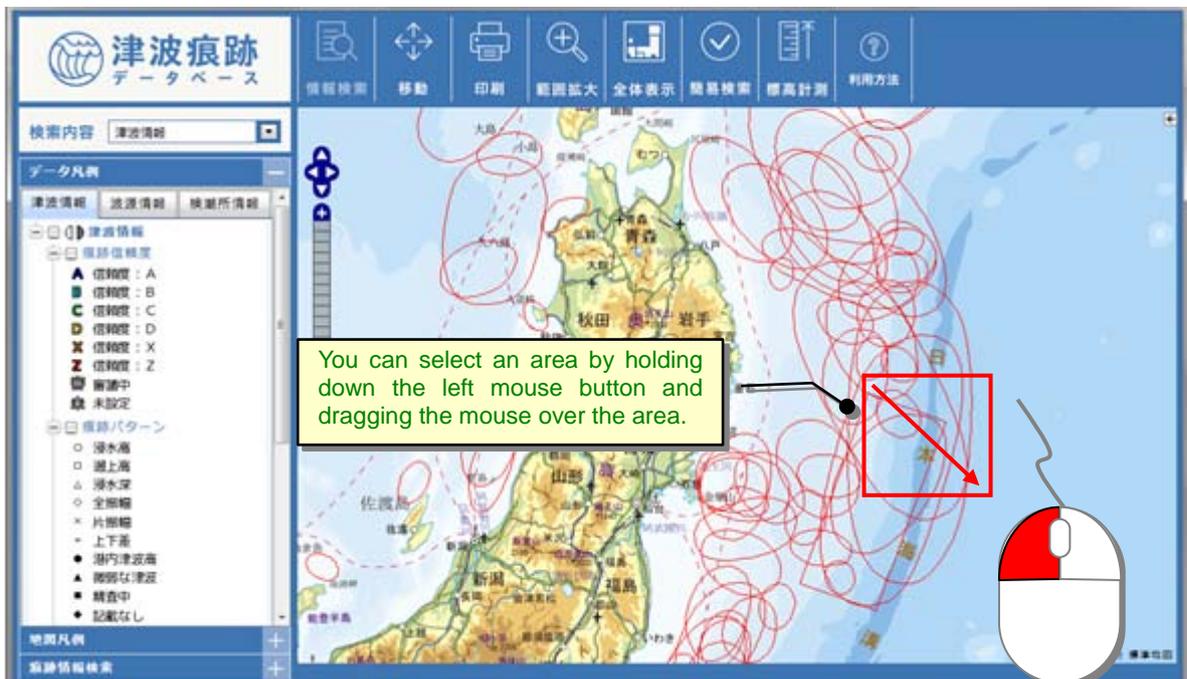
(1) Viewing detailed tsunami information

You can view detailed tsunami information by displaying tsunami source locations on the map.

- i) Display tsunami source locations on the map. (Refer to "[2.3.6. Displaying Trace Information or Old Map Image on a Map](#)").
- ii) Select "Tsunami Information" from [Search Item] on the toolbar, and click the [Information Search] icon to start the information search mode.



- iii) To view detailed information on specific tsunami sources, select the area containing the tsunami sources on the map by dragging and dropping the mouse.



- iv) Tsunami information on the tsunami sources included in the specified area will be displayed in a list on a separate screen.
 To view the detailed tsunami information, click on the “Tsunami Name” link you want to view.

津波痕跡 データベース

【津波情報検索】

検索結果 5件

選択	津波番号	発生年月日	津波名	羽島の津波規模階級	関連情報
<input type="checkbox"/>	0013	1611/12/02	1611慶長三陸地震津波	4.0	文献情報 震害情報
<input type="checkbox"/>	0039	1793/02/17	1793寛政三陸地震津波	3.0	文献情報 震害情報
<input type="checkbox"/>	0055	1896/06/15	1896明治三陸地震津波	3.5	文献情報 震害情報
<input type="checkbox"/>	0057	1897/08/05	1897三陸はるか沖地震津波	2.0	文献情報 震害情報
<input type="checkbox"/>	0075	1933/03/03	1933昭和三陸地震津波	3.0	文献情報 震害情報

津波情報詳細 - Windows Internet Explorer

http://tsunami.civil.tohoku.ac.jp/tsunami/tsunami.php?tsunami_id=55

津波番号: 0055

発生日時: 西暦(年月日時): 1896/06/15 00:00
 和暦(年月日時): 明治29
 和暦(年)(英語): Meiji 29

津波名: (和名): 1896明治三陸地震津波
 (英名): 1896 Meiji Sanriku

津波の発生要因: 地震

震源地名: (和名): 岩手県沖
 (英名):

震源座標: (震央の)緯度: 39度 30分
 (震央の)経度: 144度 0分
 震源深さ(m):
 Ms 表面波マグニチュード:
 Mj 浅層序マグニチュード: 8.5
 Mw モーメントマグニチュード:

津波の大きさ: M 阿部の津波マグニチュード: 8.5
 m 今村・源田の津波マグニチュード: 4.0
 m 羽島の津波規模階級: 3.0

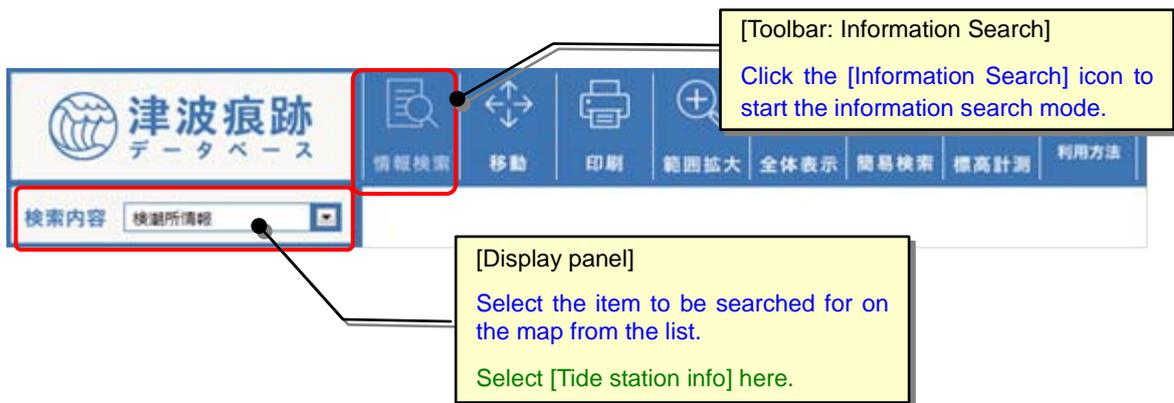
被害: 人的被害
 家屋被害
 被害情報の引用元:
 備考:

備考: 津波地震(阿部2003, 渡辺1996)

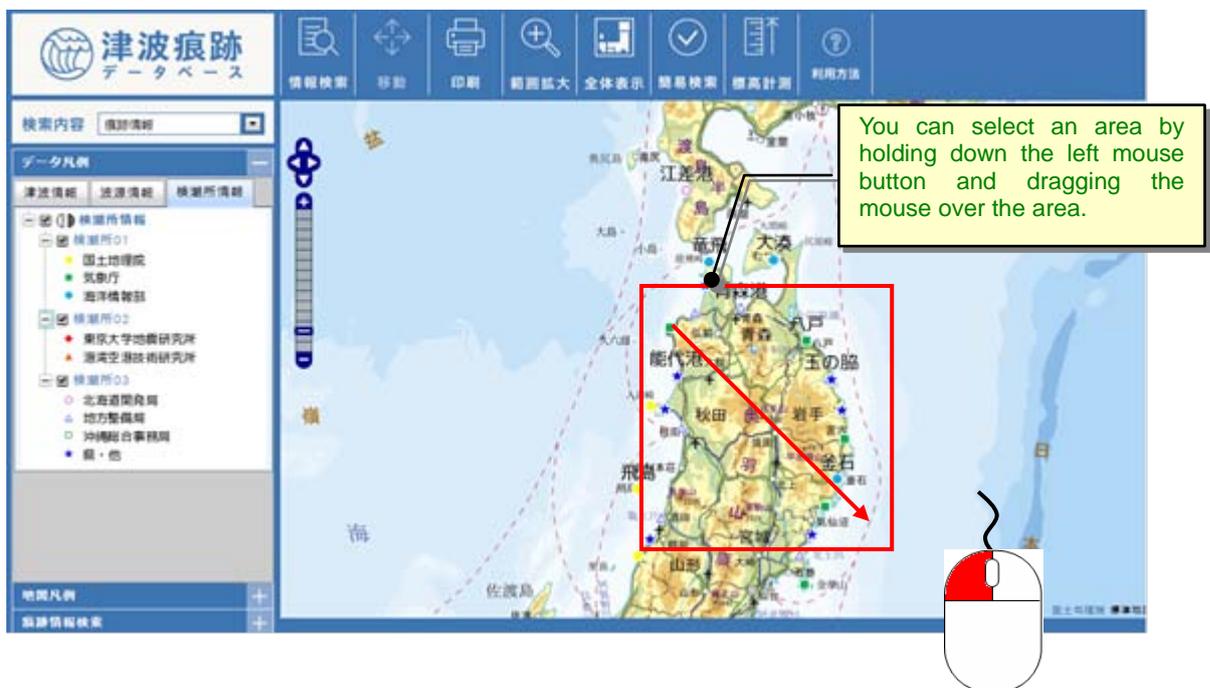
1.3.12. Viewing Detailed Tide Station Information on a Map

You can view detailed tide station information on a map.

- i) Display the tide station information on the map. (Refer to “[2.3.6. Displaying Trace Information or Old Map Image on a Map](#)”).
- ii) Select “Tide station info” from [Display panel], and click the [Data Search] icon to start the data search mode.



- iii) To view detailed tide station information on a specific area, select the area on the map by dragging and dropping the mouse.



- iv) Information on the tide stations included in the specified area will be displayed in a list on a separate screen.

Click on the [Tide Station Name] link for the tide station you want to view in the list. Detailed information on the tide station will be displayed.

津波痕跡 データベース

【検索情報検索】

検索結果: 19 / 19件 <<先頭 <前へ 1次へ> 最終>>

選択	観測所コード	観測所名	所管	所在地	関連情報
<input checked="" type="checkbox"/>	02002	深浦(岩崎) (1972-04-01)	気象庁	青森県 青森県西津軽郡深浦町	津波情報 観測情報
<input checked="" type="checkbox"/>	02003	八戸 (1978-03-00)	気象庁	青森県 青森県八戸市新湊36-3地先	津波情報 観測情報
<input checked="" type="checkbox"/>	02004	志波 (1952-05-00 - 2008-02-00)	海洋情報部	青森県 青森県七戸市大湊町	津波情報 観測情報
<input checked="" type="checkbox"/>	02005	電気 (1984-04-00)	海洋情報部	青森県 青森県東津軽郡外ヶ浜町	津波情報 観測情報
<input checked="" type="checkbox"/>	02006	豊森 (1955-09-00)	地方整備局	青森県 青森市港町池先港港門	津波情報 観測情報
<input checked="" type="checkbox"/>	02009	十三 (1916-07-01)	県・他	青森県 青森県五所川原市十三羽黒崎	津波情報 観測情報
<input checked="" type="checkbox"/>	02010	松ノ尾 (1976-00-00 - 1986-00-00)	地方整備局	青森県 松ノ尾港港内	津波情報 観測情報
<input checked="" type="checkbox"/>	03001	富古 (1906-03-00)	気象庁	岩手県 岩手県宮古市日立浜町9	津波情報 観測情報

地図表示

English

全国観測所一覧	登録番号	2605
観測所名	都道府県別番号	0203
所管	名称	深浦(岩崎)
	よみがな	ふかうら(いわさき)
	組織	気象庁
	詳細	深浦測候所
	問い合わせ先	〒038-2324 青森県西津軽郡深浦町大字深浦字岡町21073/0173-74-2752
所在地	地名	青森県 青森県西津軽郡深浦町
	位置情報先リンク	http://portal.cyberjapan.jp/site/mapuse4/?crs=1&b=40.7850&l=139.5535&z=16&crs=1&b=40.7850&l=139.5535&z=16&zoom=15&lat=40.64722&lon=139.926667&layers=RITT
	緯度	40度 38分 50.000秒 40.647222
	経度	139度 55分 36.000秒 139.926667
観測期間	開始年月日	1972-04-01
	終了年月日	
	廃止年月日	
測定方法		フース型
井戸内径(m)		非公開
導水管	設置当初の内径(m)	非公開
	設置当初の長さ(m)	非公開
備考		昭和48 8導水管改修(Φ9cmガンパイ) @ @昭和53.8導水管改修(Φ6cmガンパイ)
データ登録・更新		2015/02/03 13:11:27

【津波関連】

津波名	出典文献名	著者名
1983日本海中部地震津波	『日本海中部地震津波の発生機構と破壊力』文部省 科学研究所 自然現象特別研究報告成果集	研究代表者 斎藤伸夫
1993日本海中部地震津波	『Tide gauge response to tsunamis Measurements at	佐竹 健治・高木 正三

2. Viewing Tsunami Trace Information

2.1. Viewing Tsunami information

2.1.1. Searching for Tsunami Information Using Keywords

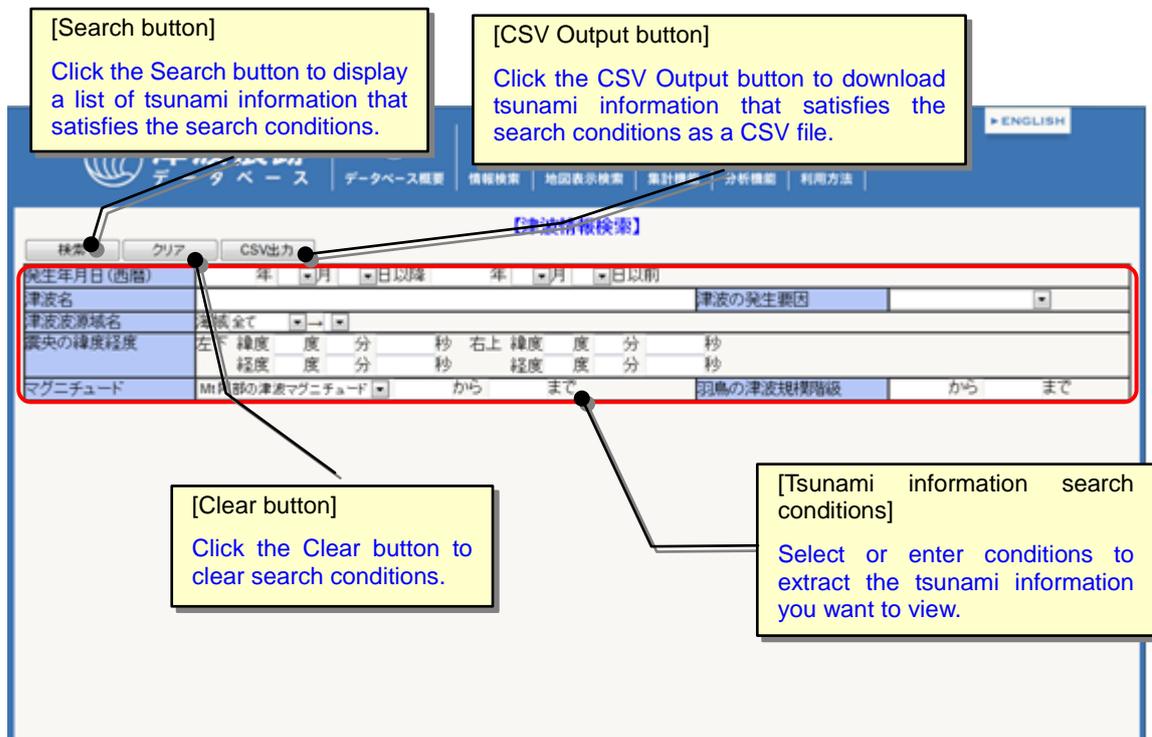
- i) Click on the [Tsunami info] sub-menu from the [Search] menu.



- ii) The [Tsunami Information Search] screen will appear. Select or enter search conditions.

When you click the [Search] button, the [Tsunami Information List] screen containing tsunami information that satisfies the search conditions will be displayed. You can download the search results as a CSV file (comma-separated text) by clicking the [CSV Output] button.

Click the [Clear] button to clear (initialize) the search conditions.



Search conditions for tsunami information are as shown in the table below:

No	Item Name	Entry Format	Size	Check	Description
1	Date of occurrence	Manual entry List	—	Date	Manually enter the year of occurrence of the tsunami (in Western calendar format). Select the month and date from the list. ("From," "To," and "Period" searches are available.)
2	Tsunami name	Manual entry	50 characters		Manually enter the name of the tsunami. Searching is performed by partial match.
3	Cause of tsunami	List	—		Select the cause of the tsunami from the list.
4	Tsunami source location Sea area	List	—		Select the sea area of the tsunami source location from the list. "Tsunami sea areas" are listed according to the sea area selected.
5	Tsunami source location	Manual entry	15 characters		Select the tsunami source location from the list.
6	Latitude and longitude of the epicenter	Manual entry	Degree: 2-digit integer Minute: 2-digit integer Second: 2-digit integer, 3-digit decimal number	Numerical value	Manually enter the latitudes and longitudes of the upper-right corner and the lower-left corner of the epicenter area you want to search, respectively.
7	Magnitude	List Manual entry	2-digit integer 1-digit decimal number	Numerical value	Select the magnitude type from among the following types: "MJ: Japan Meteorological Agency magnitude scale" "Mw: Moment magnitude scale" "Mt: Tsunami magnitude scale by Abe" Manually enter the magnitude value selected ("Range," "From," and "To" searches are available)
8	Hatori's tsunami magnitude	Manual entry	4 digits	Numerical value	Manually enter the tsunami magnitude. ("Range," "From," and "To" searches are available) Range: -1 to 4.5

- iii) You can view detailed tsunami information and search for related document information and trace information from the [Tsunami Information List] screen.

The screenshot shows the '【津波情報検索】' (Tsunami Information Search) interface. At the top, there are navigation icons for '情報検索', '地図表示検索', '集計機能', '分析機能', and '利用方法'. Below these are search filters for '発生年月日(西暦)', '津波名', '津波波源域名', '震央の緯度経度', and 'マグニチュード'. A search results table is displayed with columns for selection, tsunami number, date, name, scale, and related information. Callouts provide instructions on how to use these features.

[Sorting lists]
Click [Heading] in light blue to sort tsunami information in descending or ascending order.

[Related Information: Document Information button]
Click the Document Information button to display a list of related document information.

[Related Information: Trace Information button]
Click the Trace Information button to display a list of related tsunami trace information.

選択	津波番号	発生年月日	津波名	羽鳥の津波規模階級	関連情報
<input type="checkbox"/>	0008	1498-07-09	1498年の南海地震津波		文獻情報 観測情報
<input type="checkbox"/>	0009	1498-09-20	1498年の東海地震津波	3.0	文獻情報 観測情報
<input type="checkbox"/>	0010	1596-09-04	1596豊後豊後地震津波	2.0	文獻情報 観測情報
<input type="checkbox"/>	0012	1605-02-03	1605豊後豊後地震津波	3.0	文獻情報 観測情報
<input type="checkbox"/>	0013	1611-12-02	1611豊後豊後地震津波	4.0	文獻情報 観測情報
<input type="checkbox"/>	T015-01	1640-07-31	1640豊後豊後地震津波		文獻情報 観測情報
<input type="checkbox"/>	0016	1662-10-31	1662日向灘地震津波	2.0	文獻情報 観測情報

[Tsunami Name]
Click on a [Tsunami Name] link to open the corresponding [Detailed Tsunami Information] screen.

2.1.2. Displaying Trace Information for Selected Tsunami on a Map

- i) Display the Tsunami Information List screen (Refer to “[3.1.1. Searching for Tsunami Information Using Keywords](#)”).
- ii) Select one or more tsunami whose trace information you want to see by placing/removing a check mark in the Select boxes next to them in the [Tsunami Information List]. (Multiple items can be selected. All items are selected by default.) To select all tsunami in the list, click the [Select All] button, and to deselect all tsunami in the list, click the [Deselect All] button.
- iii) To display the trace information of only the selected tsunami on a map, click the [Display Traces of Selected Tsunami on Map] button.

検索結果:41件

選択	津波番号	発生年月日	津波名	羽島の津波規模階級	関連情報
<input checked="" type="checkbox"/>	0044	1854/12/23	1854安政東海地震津波	3.0	<input type="button" value="文献情報"/> <input type="button" value="痕跡情報"/>
<input checked="" type="checkbox"/>	0045	1854/12/24	1854安政南海地震津波	3.5	<input type="button" value="文献情報"/> <input type="button" value="痕跡情報"/>
<input checked="" type="checkbox"/>	0048	1856/08/23	1856安政三陸(八戸)地震津波	2.5	<input type="button" value="文献情報"/> <input type="button" value="痕跡情報"/>
<input checked="" type="checkbox"/>	0053	1894/03/22	1894根室半島南東沖地震津波	2.5	<input type="button" value="文献情報"/> <input type="button" value="痕跡情報"/>
<input type="checkbox"/>	0055	1896/06/15	1896明治三陸地震津波	3.0	<input type="button" value="文献情報"/> <input type="button" value="痕跡情報"/>

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インターネット

[Select tsunami]
Leave the box next to the tsunami you want to select checked.

データベース | 情報検索 | 移動 | 印刷 | 範囲拡大 | 全体表示 | 簡易検索 | 標高計測 | 利用方法

検索内容: 津波情報

データ凡例

- 津波情報
- 痕跡情報
- 痕跡情報
- A 痕跡階級: A
- B 痕跡階級: B
- C 痕跡階級: C
- D 痕跡階級: D
- X 痕跡階級: X
- Z 痕跡階級: Z
- 未設定
- 震源パラメータ
- 震源
- 震上層
- 震水深
- 震源幅
- 震源深

[Map screen]
Only traces related to the selected tsunami will be displayed on the map.
Example: Ansei-Tokai and Ansei-Nankai earthquakes and tsunami

2.1.3. Viewing Detailed Tsunami Information

- i) Display the Tsunami Information List screen (Refer to “[3.1.1. Searching for Tsunami Information Using Keywords](#)”).
- ii) Click on the [Tsunami Name] link for the tsunami you want to view in the Tsunami Information List.
Detailed information on the selected tsunami will be displayed on a separate screen.

[Tsunami Source Display]

Click the Tsunami Source Display button to display the tsunami source location related to the tsunami information on the map.

[Document Information]

Click the Information button to display a list of document information related to the tsunami information.

[Trace Information]

Click the Trace Information button to display a list of trace information related to the tsunami information.

[Trace Distribution Display]

Click the Trace Distribution Display button to display the trace information related to the tsunami information on the map.

[Detailed Tsunami Information]

Detailed tsunami information is displayed.

[Registered Data Table]

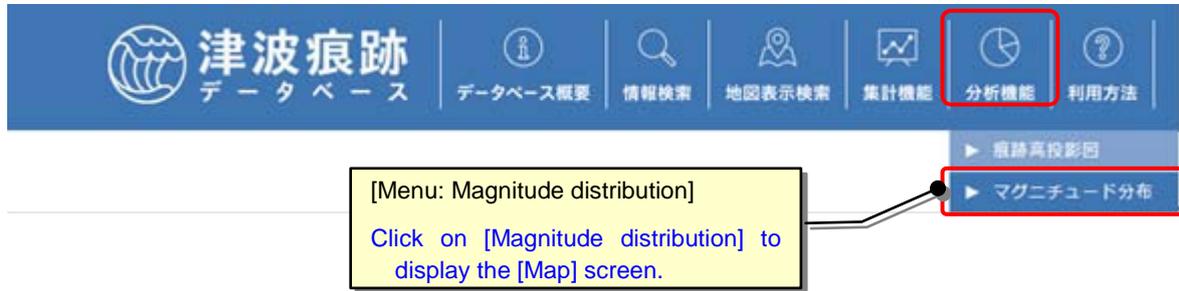
This table shows the number of registered tsunami-related document information and trace information items, etc.

* For information on the reliability of the document, see [About this database] – [Glossary].

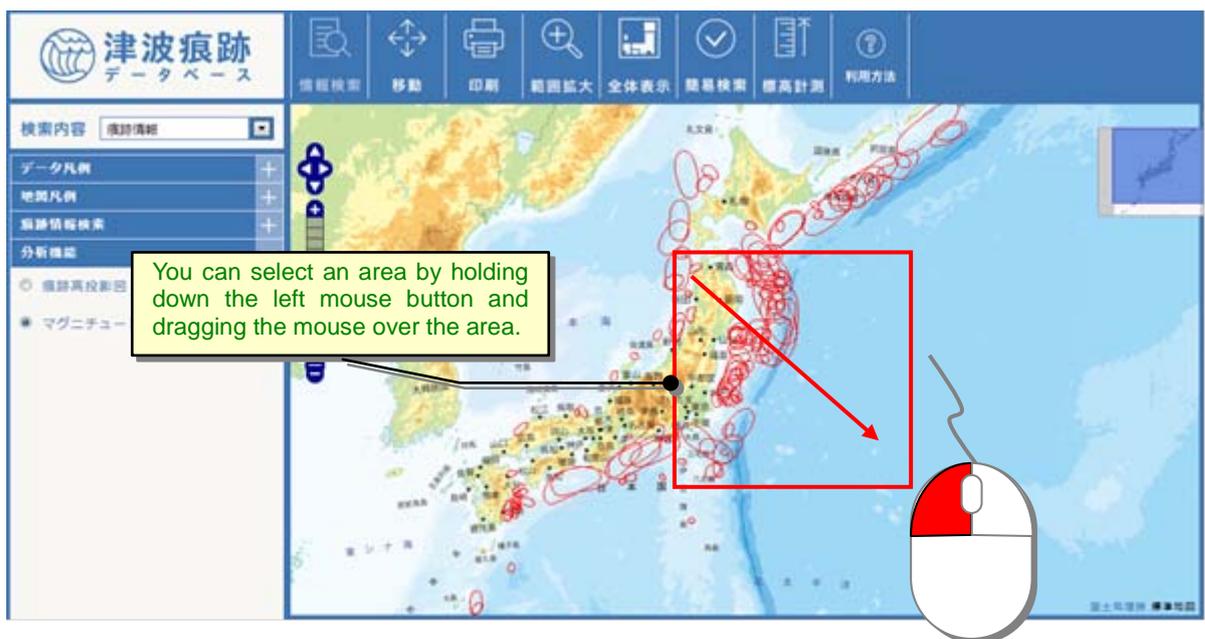
登録データ数		登録情報数
全文集計	全文集計	46
文庫の分類 【文庫自体の信頼度】	学術論文	18 【◎:0 ⇨:16 △:1 ×:0】
	古文書・史料集	20 【◎:10 ⇨:9 △:1 ×:0】
	カタログ類	7
痕跡集計	全痕跡数	1045
	検測所による観測記録数	0
	観測信頼度	A:35 B:70 C:114 D:200 X:25 Z:601

2.1.4. Viewing a Time-Series Magnitude Graph, Etc.

- i) Click on the [Magnitude distribution] sub-menu from the [Analyze] menu.



- ii) The [Map] screen starts in magnitude distribution graph creation mode. To display the tsunami source location in a graph, select the area on the map by dragging the mouse.



- iii) A magnitude distribution graph showing tsunami source locations within the specified area will be displayed.

[Item to be displayed as a graph]
Select the item to be displayed in a graph from the list.

[Graph type]
Select the graph type (time series, number of occurrences, Mt-Ms)

[Zoom Display: Year]
You can display a zoomed view of the graph for the period of years selected from the list.

[Graph]
A graph of the specified type is plotted for the specified item and years.

* In addition to the above procedure, the magnitude distribution graph display function is available by clicking the [Analyze] button in the Tsunami Information List or the [Analyze] panel on the [Map] screen.

選択	津波番号	発生年月日	津波名
<input checked="" type="checkbox"/>	0009	1498/09/20	1498明応東海地震津波
<input checked="" type="checkbox"/>	0012	1605/02/03	1605慶長東海地震津波
<input checked="" type="checkbox"/>	0044	1854/12/23	1854安政東海地震津波
<input checked="" type="checkbox"/>	0208	2004/09/05	2004東海道沖地震津波

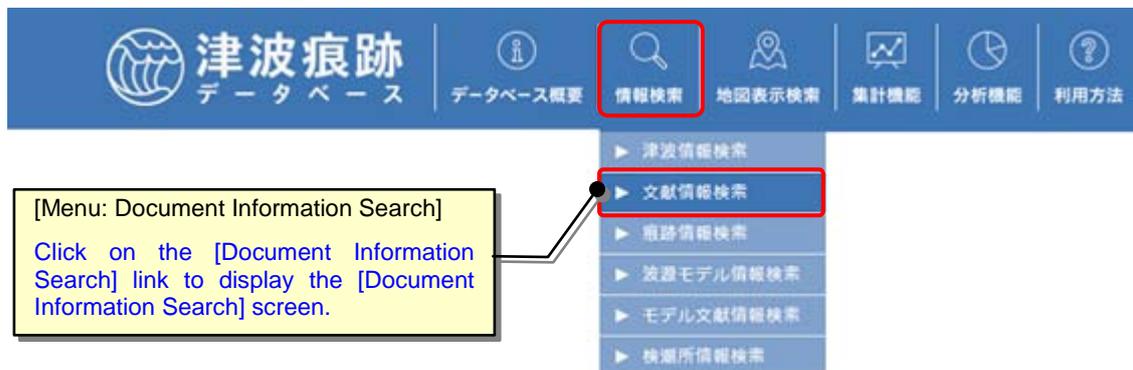
[Tsunami Information List: Analyze]
Click the [Analyze] button to display the magnitude distribution graph for the selected tsunami.

[Map: Analyze panel]
Select "Magnitude distribution" to switch to magnitude distribution graph creation mode.

2.2. Viewing Document Information

2.2.1. Searching for Document Information Using Keywords

- i) Click on the [Document info] sub-menu from the [Search] menu.



- ii) The [Document Information Search] screen will appear. Select or enter search conditions.

When you click the [Search] button, the [Document Information List] screen containing document information that satisfies the search conditions will be displayed. You can download the search results as a CSV file (comma-separated text) by clicking the [CSV Output] button.

Click the [Clear] button to clear (initialize) the search conditions.

[Search button]
Click the Search button to display a list of document information that satisfies the search conditions.

[CSV Output button]
Click the CSV Output button to download document information that satisfies the search conditions as a CSV file.

[Clear button]
Click the Clear button to clear search conditions.

[Document information search conditions]
Select or enter conditions to extract the document information you want to view.
* For information on the reliability of the document, see [About this database] - [Glossary].

Search conditions for document information are as shown in the table below:

No	Item	Entry Format	Size	Check	Description
1	Tsunami name	List	-		Select the name of the tsunami from the list.
2	Document (article) name	Manual entry	100 characters		Manually enter document name(s). An "OR" search can be performed by separating keywords with a space. Searching is performed by partial match.
3	Other document (article) name	Manual entry	100 characters		Manually enter other document (article) name(s). Searching is performed by partial match.
4	Author name	Manual entry	100 characters		Manually enter the author name. Searching is performed by partial match.
5	Journal title	Manual entry	200 characters		Manually enter the journal title. Searching is performed by partial match.
6	Publisher	Manual entry	200 characters		Manually enter the publisher. Searching is performed by partial match.
7	Volume, issue	Manual entry	50 characters		Manually enter the volume and issue. Searching is performed by prefix match.
8	Publishing year (in Western calendar format)	Manual entry	4 digits	Integer	Manually enter the publishing year (in Western calendar format). "From," "To," and "Period" searches are available.
9	Keyword	Manual entry	100 characters		Manually enter keyword(s). Searching is performed by partial match.
10	Document type	List	—		Select the document type from the list.
11	Reliability of the document	Check	—		Select the reliability of the document by checking the applicable checkbox (es) (multiple options can be selected). * For information on the reliability of the document, see [About this database] – [Glossary] .

- iii) You can view detailed document information and search for related trace information from the [Document Information List] screen.

The screenshot shows the '津波痕跡 データベース' (Tsunami Traces Database) interface. At the top, there is a navigation bar with icons for database overview, search, map, statistics, analysis, and usage. Below this is a search section titled '【文献情報検索】' (Document Information Search) with buttons for search, clear, CSV export, and map display. A search filter dropdown is set to 'その他文献(論文)名'. The main content area displays a table of search results with 46 items. The table has columns for document name, author, publication year, and document type. A 'Trace Information' button is visible next to each entry. Annotations provide instructions on how to use these features.

文献(論文)名	著者名	出版年	文献の分類	Trace Information
日本地震史料	武者金吉	1951年	古文書・史料集	Trace Information
大津町史		1943年	古文書・史料集	Trace Information
瀬戸大日本地震史料 第二巻	文部省震災特別評議会	1941年	古文書・史料集	Trace Information
静岡県出津における宝永・安永地震津波被害の調査報告	地震研究所 羽鳥徳太郎	1978年	学術論文	Trace Information
豆州内津島民史料 中巻之壹	辻澤敬三 編著	1972年	古文書・史料集	Trace Information
伊豆下田における過去地震津波の調査	福富孝治	1936年	学術論文	Trace Information
明治七年・宝永四年・寛永七年地震史料(清水市関係)	清水市総務部総務課	1977年	古文書・史料集	Trace Information

[Sorting lists]
Click [Heading] in light blue to sort document information in descending or ascending order.

[Related Information: Trace Information Button]
Click the Trace information button to display a list of related tsunami trace information.

[Document (Article) Name]
Click on a [Document (Article) Name] link to open the corresponding [Detailed Document Information] screen.

2.2.2. Searching for Related Document Information from Tsunami Information

- i) Display the [Detailed Tsunami Information] screen for the related tsunami information (Refer to “[3.1.3.Viewing Detailed Tsunami Information](#)”)
- ii) Click the [Document Information] button on the [Detailed Tsunami Information] screen. A list of document information related to the tsunami information will be displayed.

The image shows a two-step process on the 'Tsunami Information Database' website. The first step is the 'Detailed Tsunami Information' screen for tsunami ID 44. The 'Document Information' button is highlighted with a red box and a callout box. The second step is the 'Document Information List' screen, which displays a table of related documents. A callout box explains that this list is generated based on the selected tsunami information.

[Detailed Tsunami Information: Document Information button]
Click the Document Information button to display a list of document information related to the tsunami being displayed.

[Document Information List]
A list of document information related to the corresponding tsunami will be displayed.
Example: A list of document information related to the [Ansei-Tokai earthquake and tsunami].

津波番号	0044	
発生日時	西暦(年月日時)	1854/12/29
	和暦(年月日時)	高永7(安政7)
	和暦(年)(英語)	Kaei 7(Ansei)
	備考	
津波名	(和名)	1854安政東海地震津波
	(英名)	1854 Ansei Tokai
津波の発生要因		地震
震央地名	(和名)	南海
	(英名)	
津波波源名		(和名)

津波名	1854安政東海地震津波			
文献(論文)名		その他文献(論文)名		
著者名		所収誌名		
出版者		巻・号		
出版年(西暦)	年から 年まで	キーワード		
文献の分類		文献全体の信頼度		
検索結果:46件 <<先頭 <前へ 1 2 次へ> 最終>>				
文献(論文)名	著者名	出版年	文献の分類	関連情報
日本地震史料	武蔵金吉	1951年	古文書・史料集	関連情報
大津町史		1943年	古文書・史料集	関連情報
津訂本日本地震史料 第二巻	文部省震災防諒評議會	1941年	古文書・史料集	関連情報
静岡県出津における安永・安政東海地震の津波履歴	地震研究所 羽鳥徳太郎	1978年	学術論文	関連情報
豆田内浦漁民史料 中巻之巻	滋澤敏三 編著	1972年	古文書・史料集	関連情報
伊豆下田における過去地震津波の発生	福富孝治	1936年	学術論文	関連情報
明治七年・安永四年・高永七年地震史料(清水市史)	清水市総務部総務課	1977年	古文書・史料集	関連情報

2.2.3. Viewing Detailed Document Information

- i) To view detailed document information, display the [Document Information List] screen (Refer to “2.2.1. Searching for Document Information Using Keywords”).
- ii) Click on the desired [Document (Article) Name] link on the [Document Information List] screen.



- iii) A corresponding [Detailed Document Information] screen will appear, on which you can view detailed document information and the document itself (a scanned PDF file).

* For information on the reliability of the document, see [About this database] – [Glossary].

[Map Display button]
Click the Map Display button to display related trace information on a map.

[Trace Information button]
Click the Trace Information button to display a list of related trace information.

[Detailed Document Information]
Detailed document information is displayed.

[Registered Trace Data Table]
This table shows the number of trace information items related to the document, etc.

[Tsunami information list]
A list of tsunami information related to the corresponding tsunami will be displayed.

[Document File List]
Document files are displayed in a list. Click on the [Document File Content] link to display the document file (PDF).

津波名	頁数	文庫自体の信頼度	信頼度判定者
684白鳳地震津波	67-236		都司・松
869貞観地震津波	67-236		都司・松
887仁和(紀伊半島沖)地震津波	67-236		都司・松

この文庫に関連付けられた痕跡の内訳		
全痕跡数	2338	
検索所による観測記録数	710	
痕跡信頼度	A:2 B:1 C:0 D:0 X:1 Z:2269	
文庫信頼度	◎:18 ○:10 △:5 ◇:0 ×:1	

No	文庫ファイル内容
	[Document File Content]

2.3. Viewing Tsunami Trace Information

2.3.1. Searching for Tsunami Trace Information Using Keywords

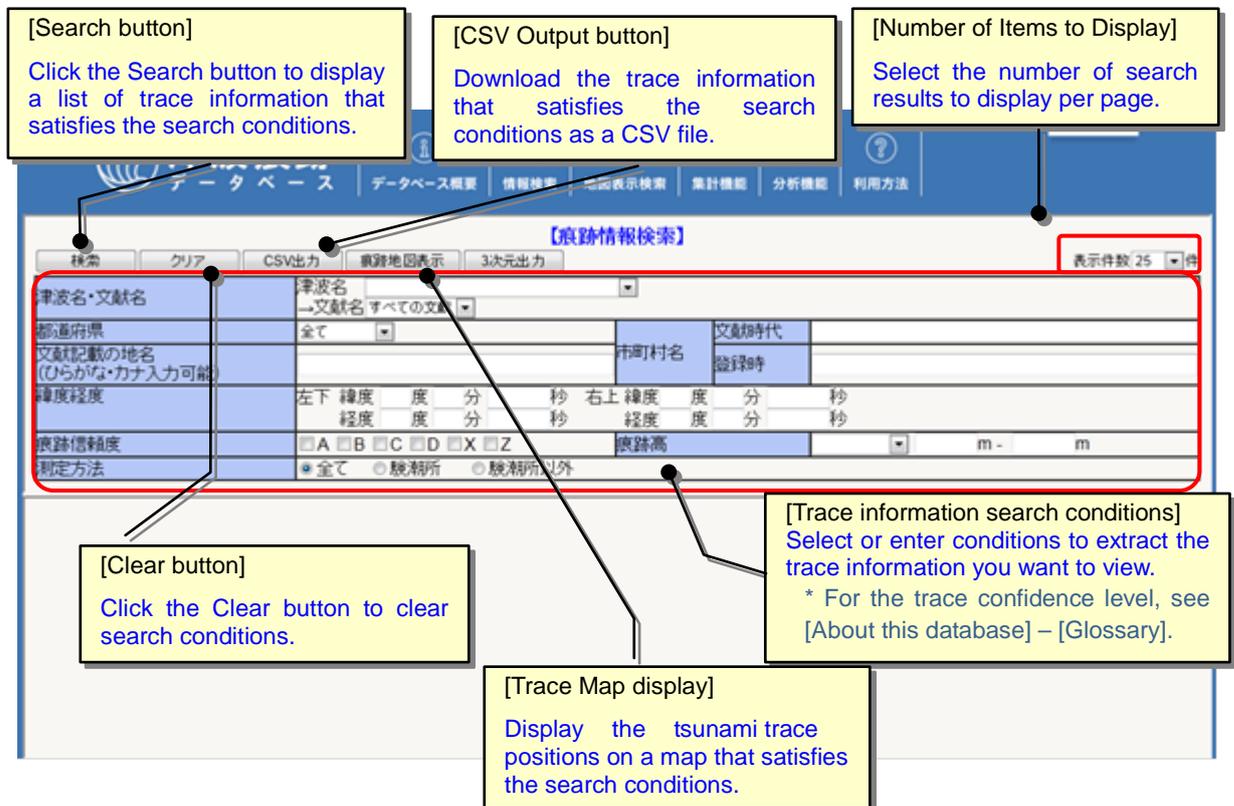
- i) Click on the [Trace information] sub-menu from the [Search] menu.



- ii) The [Trace Information Search] screen will appear. Select or enter search conditions.

When you click the [Search] button, the [Trace Information List] screen containing trace information that satisfies the search conditions will be displayed. You can download the search results as a CSV file (comma-separated text) by clicking the [CSV Output] button.

Click the [Clear] button to clear (initialize) the search conditions.



Search conditions for tsunami trace information are as shown in the table below:

No	Item Name	Entry Format	Size	Check	Description
1	Tsunami name	List	—		Select the name of the tsunami from the list.
2	Document name	List	—		Select the document name from the list.
3	Prefecture name	List	—		Select the prefecture where the trace lies from the list.
4	Name of the municipality at the time of document creation	Manual entry	15 characters		Manually enter the name of the municipality at the time the document was created. (Partial match search)
5	Name of the municipality at the time of registration	Manual entry	15 characters		Manually enter the name of the municipality at the time of registration. (Partial match search)
6	Name of the place in the document	Manual entry	50 characters		Manually enter the name of the place described in the document (hiragana and katakana are also available). (Partial match search)
7	Latitude and longitude	Manual entry	Degree: 2-digit integer Minute: 2-digit integer Second: 2-digit integer, 3-digit decimal number	Numerical value	Manually enter the latitudes and longitudes of the upper-right corner and the lower-left corner of the area you want to search, respectively.
8	Trace confidence level	Check	—		Select the confidence level of the trace by checking the applicable checkbox (multiple options can be selected). * For the trace confidence level, see [About this database] – [Glossary].
9	Trace height - Trace pattern	List	—		Select the trace pattern described in the document from the list.
10	Trace height	Manual entry	3-digit integer 2-digit decimal number	Numerical value	Manually enter the upper and lower limits of the height of the trace described in the document. When you enter only the upper or lower limit, use "From" or "To" search.
11	Measuring method	Select	—		Select the measuring method of the trace height.

- iii) You can view detailed trace information and display trace locations on a map from the [Trace Information List] screen.

[Page transfer operation]
 You can jump to any page within the search results by clicking on a page number.

[Sorting lists]
 Click [Item Name] to sort trace information in descending or ascending order.

検索結果: 1045件 <<先頭 <前
 ^ | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 次 >> 最終 >>

情報取得	津波名	登録時の市町村名	文献時代の市町村名	文献記載の地名	観測パターン
地図 詳細	1854安政東海地震津波	みなべ町	南部町	南部	全振幅
地図 詳細	1854安政東海地震津波	牧之原市	相良町	佐柄、川崎	浸水深
地図 詳細	1854安政東海地震津波	南知多町	南知多町	内溝	浸水深
地図 詳細	1854安政東海地震津波	下田市	下田町	下田町	記載なし
地図 詳細	1854安政東海地震津波	鳥羽市	鳥羽町	鳥羽	浸水深
地図 詳細	1854安政東海地震津波	鳥羽市	壺神村	壺神	記載なし
地図 詳細	1854安政東海地震津波	鳥羽市	鳥羽町	鳥羽	浸水深
地図 詳細	1854安政東海地震津波	志摩市	甲賀村	甲賀	浸水深
地図 詳細	1854安政東海地震津波	志摩市	甲賀村	濱田	浸水深
地図 詳細	1854安政東海地震津波	志摩市	甲賀村	甲賀	浸水深

[View Information: Map]
 Click the Map button to open the [Map] screen. The area centered on the selected trace will be displayed.

[View Information: Detail]
 Click the Detail button to open the [Detailed Trace Information] screen.

2.3.2. Searching for Specific Tsunami Trace Information from Tsunami Information

- i) Display the [Detailed Tsunami Information] screen for the tsunami information corresponding to the trace information you want to view (Refer to “[2.1.3. Viewing Detailed Tsunami Information](#)”).
- ii) Click the [Trace Information] button on the [Detailed Tsunami Information] screen. A list of trace information related to the tsunami will be displayed.

The image shows a two-step process on the '津波痕跡データベース' (Tsunami Trace Information Database) website. In the first step, the '津波情報詳細' (Detailed Tsunami Information) page for tsunami ID 0044 is shown. A red box highlights the '痕跡情報' (Trace Information) button. A yellow callout box explains: '[Detailed Tsunami Information: Trace Information button] Click the Trace Information button to display a list of trace information related to the tsunami being displayed.' A yellow arrow points from this button to the second step.

The second step shows the '津波痕跡データベース' (Tsunami Trace Information List) page. A search filter is set to '津波名・文献名' (Tsunami Name/Literature Name) as '1854安政東海地震津波' (1854 Ansei Tokai Earthquake Tsunami). A red box highlights a table of trace information. A yellow callout box explains: '[Tsunami Trace Information List] A list of trace information related to the corresponding tsunami will be displayed. Example: A list of trace information related to the [Ansei-Tokai earthquake and tsunami].'

情報種別	津波名	記録時の市町村名	文献時代の市町村名	文献記載の地名	痕跡パターン
地図	1854安政東海地震津波	みなべ町	南郡町	南郡	全壊陥
地図	1854安政東海地震津波	牧之原市	相良町	佐柄、川崎	浸水高
地図	1854安政東海地震津波	南知多町	南知多町	内海	浸水高
地図	1854安政東海地震津波	下田市	下田町	下田町	記録なし
地図	1854安政東海地震津波	鳥羽市	鳥羽町	鳥羽	浸水深
地図	1854安政東海地震津波	鳥羽市	壱神村	壱神	記録なし
地図	1854安政東海地震津波	鳥羽市	鳥羽町	鳥羽	浸水高
地図	1854安政東海地震津波	志摩市	甲賀村	甲賀	浸水深
地図	1854安政東海地震津波	志摩市	甲賀村	濱田	浸水深
地図	1854安政東海地震津波	志摩市	甲賀村	甲賀	浸水高

2.3.3. Searching for Trace Information Contained in a Specific Document from Document Information

- i) Display the [Detailed Document Information] screen for the document which contains the trace information you want to view (Refer to “[2.2. Viewing Document Information](#)”).
- ii) Click the [Trace Information] button on the [Detailed Document Information] screen. A list of trace information described in the document will be displayed.

[Detailed Tsunami Information: Trace Information button]
Click the Trace Information button to display a list of trace information related to the tsunami being displayed.

[Tsunami Trace Information List]
A list of the trace information described in the corresponding document will be displayed.
Example: Ansei-Tokai Japan Earthquake History Vol.4

情報開覧	津波名	登録時の市町村名	文献時代の市	町	水深	深さ
地図 詳細	1854安政東海地震津波	みなべ町	南前町	佐柄、川崎	浸水深	5.20m
地図 詳細	1854安政東海地震津波	敦之原市	穂島町	内海	浸水深	1.20m
地図 詳細	1854安政東海地震津波	南知多町	南知多町	下田町	記載なし	
地図 詳細	1854安政東海地震津波	下田市	下田町	下田町	記載なし	
地図 詳細	1854安政東海地震津波	鳥羽市	鳥羽町	鳥羽	浸水深	0.90m
地図 詳細	1854安政東海地震津波	鳥羽市	壺神村	壺神	記載なし	
地図 詳細	1854安政東海地震津波	鳥羽市	鳥羽町	鳥羽	浸水深	4.60m
地図 詳細	1854安政東海地震津波	志摩市	甲賀村	甲賀	浸水深	3.00m
地図 詳細	1854安政東海地震津波	志摩市	甲賀村	濱田	浸水深	6.10m
地図 詳細	1854安政東海地震津波	志摩市	甲賀村	甲賀	浸水深	10.60m

iii) The [Detailed Trace Information] screen is as shown below:

* For information on the reliability of the height standards and the trace height described in the document, the trace confidence level and the reliability of the document, see [About this database] – [Glossary].

The screenshot shows a detailed information page for a tsunami trace. The page is divided into several sections with blue headers. Callout boxes provide instructions for various elements:

- [Map Display button]:** A button at the top left labeled '地図表示' (Map Display).
- [Tsunami Name link]:** A link '0044 1854安政東海地震津波' (0044 1854 Ansei Eastern Sea Earthquake Tsunami).
- [Document Name Link]:** A link '441 日本地震史料' (441 Japanese Earthquake Historical Documents).
- [Description icon]:** A question mark icon in the '信頼度' (Reliability) section, with a callout: 'Click this icon to display descriptions of evaluation standards, etc. in a PDF file.'
- [Related materials]:** A link '資料区分' (Material Classification) at the bottom, with a callout: 'You can find materials related to the trace information here.'

The main content area contains the following information:

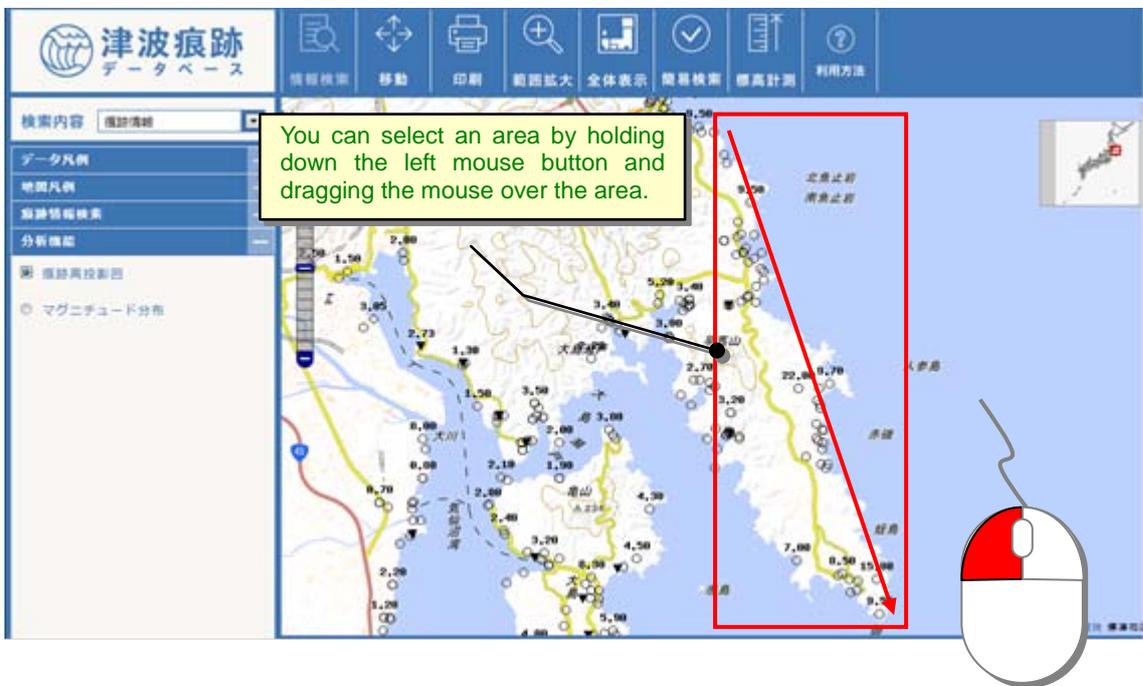
津波名	0044 1854安政東海地震津波
文献名	441 日本地震史料
痕跡ID	1
文献記載位置情報	文献時代の市町村名
	痕跡の地名
	カナ
	県名
	地名
	地名位置情報詳細 (備考(合併等))
地名備考 (地図上で確定できないため、役所等で固に決めたもの)	和歌山県南部町 南部川河口部
痕跡位置の特定	測地系 新測地系 緯度E 33度 46分 10.000秒 経度N 135度 18分 49.200秒 住所・地番情報 地図・写真・スケッチ 位置情報先リンク
痕跡測定対象物	痕跡測定対象物 南部の浦の潮の干満 津波と判断した根拠 (溺死者人数 証言・伝承・史料 史料)
津波堆積物関連	層厚 出典(引用)等
(文献記載の)高さ測定基準	高さ測定基準面 信頼度 地盤変位Z(cm)
文献記載の痕跡高さ	文献記載の最大波 痕跡高(m) 2.40m - 2.70m 史料記載の値(尺) 8, 9尺 痕跡パターン 全振幅 信頼度 備考
TP基準の痕跡高さ	TP基準補正方法 痕跡高(m) 痕跡パターン 記載なし
測定方法	痕跡の信頼度 痕跡の信頼度 判定理由 到達地点は史料から確認できず"南部川河口部"を位置設定した。文献信頼度は◎だが位置の誤差が大きいため痕跡信頼度は"D"と判定する。(2011/06/06)
文献	『日本地震史料』
雑誌	毎日新聞社, 1-350
参照頁等	p.95
引用史料	引用史料 『嘉永七年甲寅地震海嘯之記』 原資料所在 (個々の痕跡に付与される)文献信頼度 文献信頼度備考 都司・松岡 史料集名、刊行年、史料掲載頁 1951年、毎日新聞社 記載内容及び図表
原文備考	原文備考 入力者本文訳:11月4日の原の下刻に大地震。その後昼刻にかけて、4、5度揺れる。朝から潮の流れが速く、浦の磯がわずかの間、潮が引いて、潮の干満(潮の高底8、9尺)が、7、8度あった(しかし常と変わったこと)
データ測定	
データ登録・更新	2013/09/27 18:40:40
資料区分	資料名
	資料内容

2.3.5. Creating a Projection View Map of Tsunami Traces

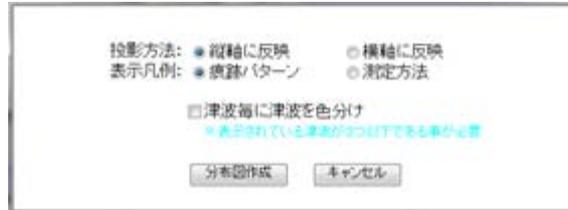
- i) Click on the [Trace projection] sub-menu from the [Analyze] menu.



- ii) The [Map] screen starts in trace projection view creation mode. To display a projected trace on a specific area, select the area on the map by dragging the mouse.

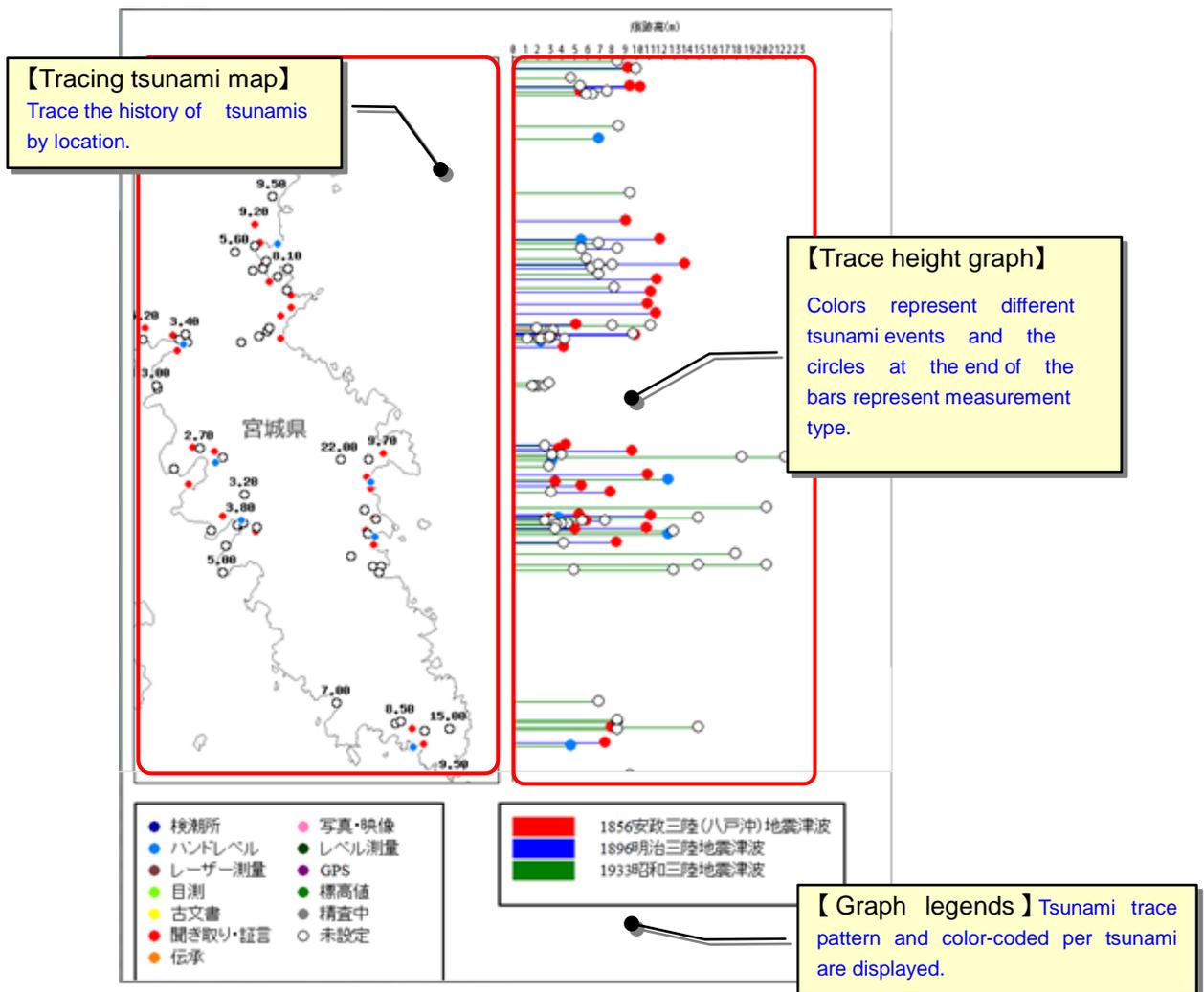


- iii) Specify the projection direction of the trace height graph (vertical/horizontal), the legend display (trace pattern or measuring method), and whether or not the graph should be color-coded by tsunami, and then click the [Create Distribution Map] button.



* To display color-coding graphs, the number of tsunamis displayed should be at most three. (To narrow down the information displayed, see [1.3.8.Displaying Trace Information with Search Conditions.](#))

- iv) A map of the specified area and graph of tsunami trace heights projected in the specified direction are displayed.



2.4. Downloading Tsunami Trace Information for Use

2.4.1. Obtaining Trace Information as Numerical or Text Information

You can download trace information in a data format (CSV file) usable in Microsoft Excel, etc.

- i) Display the trace information you want to download on the List screen by using a keyword search, etc. (Refer to "[2.3.1. Searching for Tsunami Trace Information Using Keywords](#)", etc.)
- ii) Click the [CSV Output] button on the [Trace Information Search] screen to download the information as a CSV file.

[Trace Information Search: CSV Output button]

Click the [CSV Output] button to download the trace information that satisfies the specified search conditions as a CSV file.

[File Download: Save button]

Click the Save button to save the output file to the desired location on your PC.

[Trace Information CSV File]

The saved CSV file can be opened with software such as MS Excel and used for aggregation, calculation, etc.

津波id	津波名	文献id	文献名	震源id	文献時代	文献記載	文献種別	登録時	都府	登録時	市町村	
2	12 1605 農長3	1	高知-徳島	1	甲浦	方種号登録	kannou	高知県	安芸郡東洋町		方種号付立	33
3	12 1605 農長3	1	高知-徳島	2	穴味	日比原	正-shihikui	徳島県	海部郡海南町		日比原付立	33
4	12 1605 農長3	1	高知-徳島	3	穴味	日比原	正-shihikui	徳島県	海部郡海南町		正横付立	33
5	12 1605 農長3	1	高知-徳島	4	納浦	-	tomoura	徳島県	海部郡海南町		納浦の集落	33

2.4.2. Displaying Trace Information on a 3D Map (Using Google Earth)

You can download trace information displayed in a graph based on trace heights in a data format (KML file) that can be viewed on a 3D map (using Google Earth, etc.).

- i) Display the trace information you want on the List screen by using a keyword search, etc. (Refer to "[2.3.1. Searching for Tsunami Trace Information Using Keywords](#)", etc.)
- ii) Click the [3D Output] button on the [Trace Information Search] screen to download a 3D map data (KML file) of the corresponding trace information.

[Trace Information Search: 3D Output button]
Click the [3D Output] button to download 3D map data of trace information that satisfies the specified search conditions.

[3D settings: Download button]
Specify the label and size for 3D display.

[File Download: Save button]
Click the Save button to save the output file to the desired location on your PC.

[KML file]
KML files can be used for 3D display in 3D map software such as Google Earth.

[Google Earth]

Google Earth is the 3D map software provided free of charge by Google.

In order to use Google Earth, you need an Internet connection and need to install the Google Earth software on your PC. The software can be downloaded from the Google Earth website below (English version).

Google Earth Main Page URL http://www.google.co.uk/intl/en_uk/earth/index.html



2.5. Viewing Old Maps

2.5.1. Viewing Old Maps from Index Maps

Old maps registered in this system are classified by source document, and they can be viewed from the index map.

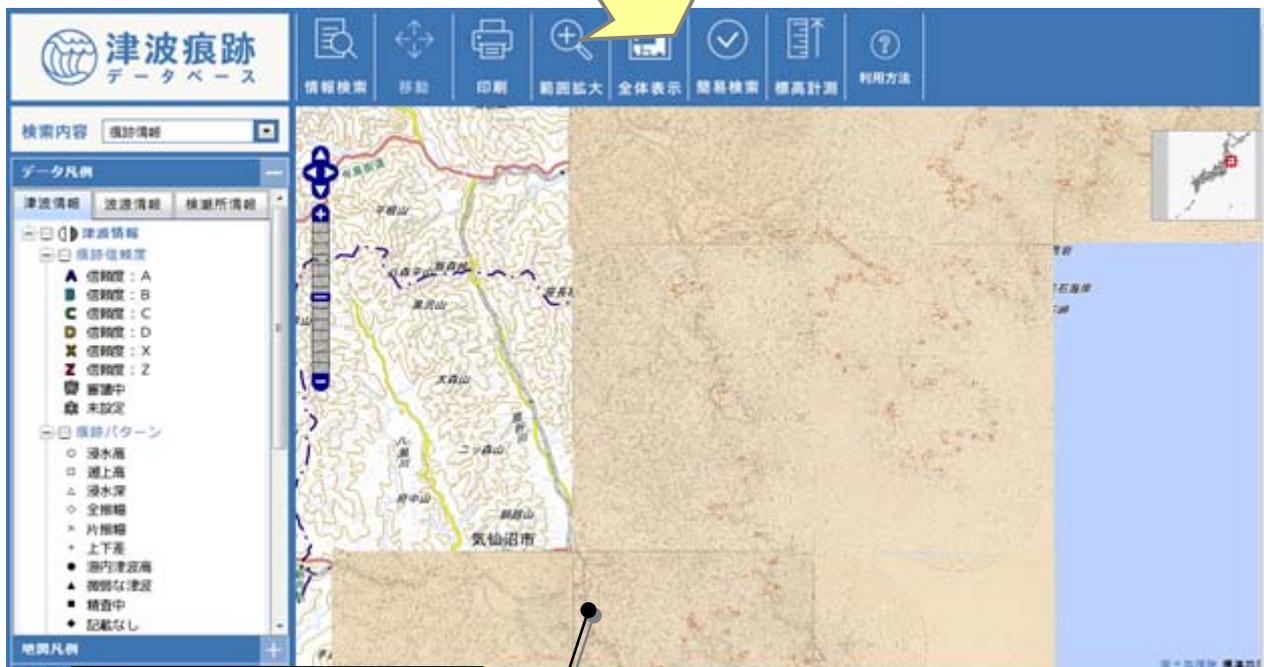
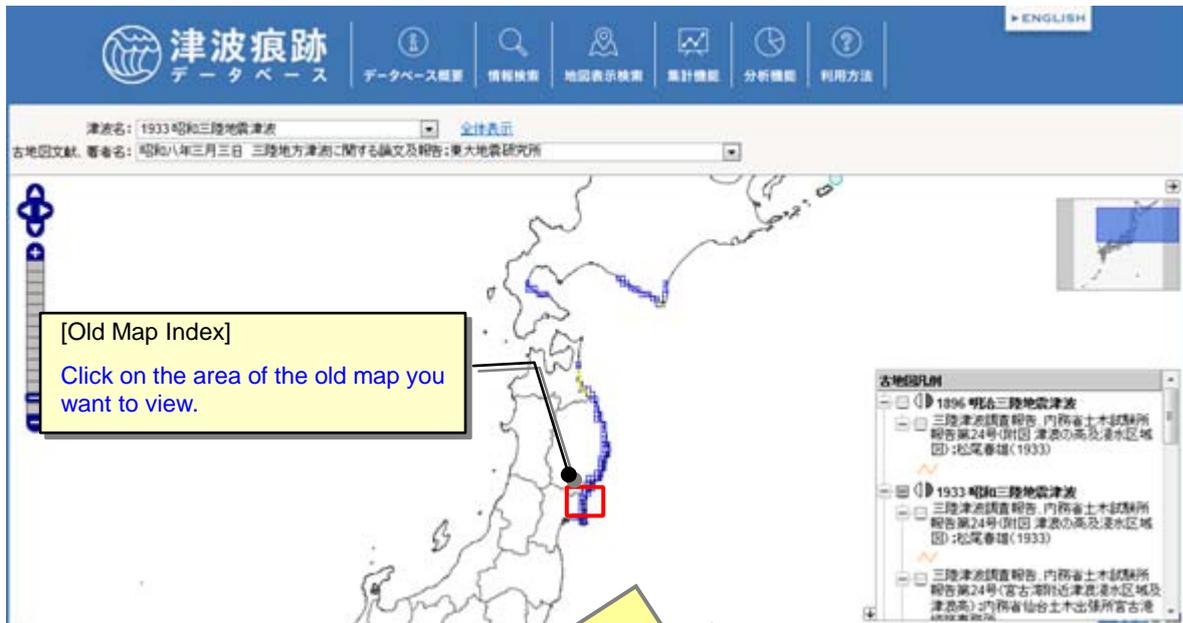
- i) Click on the [Old Map] link in the [Map] menu of the system.



- ii) When the [Old Map Index] screen appears, select the tsunami name and the source document from the list. The area covered by the old maps contained in the corresponding document will be displayed.



- iii) When you click on the frame of the area you want to view on the [Old Map Index], the old map covering the area will appear on the Map screen. The old map can be displayed so that it is overlaid with trace information, etc. (Refer to [“2.3.6. Displaying Trace Information or Old Map Image on a Map”](#), etc.).



2.6. Aggregating Tsunami Trace Information

2.6.1. Displaying the Registered Trace Data Table Screen

- i) Click on the [Trace] in the [Totalization] menu.

The [Registered Trace Data Table] screen will appear.



[File Output]
You can download the data table as an Excel file

[Aggregation Option]
Select an aggregation option.
(The default setting is "By Tsunami Name.")

[Data Item]
Click on a data item to sort data in the table by that item.

[Data Table]
Trace data is displayed sorted by the selected aggregation option.

津波番号	津波名	文献数	痕跡件数	検測記録	観測値精度の内訳							精査中
					A	B	C	D	X	Z		
0008	1498伊豆半島地震津波	8	0	0	0	0	0	0	0	0	0	0
0009	1498伊豆半島地震津波	25	213	0	0	0	11	71	21	110	0	0
0010	1596熊本県16地震津波	13	119	0	5	3	12	3	25	71	0	0
0012	1605熊本県地震津波	21	174	0	1	4	2	2	2	2	2	2
0013	1611熊本県3地震津波	17	82	0	2	2	2	2	2	2	2	2
T015-01	1640 駒ヶ岳噴火津波	7	8	0	0	1	0	0	0	0	0	0
0016	1662日向灘地震津波	3	18	0	0	0	0	0	0	0	0	0
0018	1677日向灘3地震津波	5	13	0	0	0	0	0	0	0	0	0
0019	1677日向灘北地震津波	11	121	0	0	11	33	41	3	33	0	0
W003	1700元禄(北米カスケード)津波	8	9	0	0	1	3	0	0	5	0	0
0020	1703元禄地震津波	42	259	0	1	12	10	77	3	154	2	0
0021	1707室半地震津波	57	612	0	50	50	150	79	21	260	2	0
0025	1741寛保(鹿児島大島)噴火津波	16	247	0	7	9	42	38	5	146	0	0
0030	1760日向灘地震津波	3	6	0	0	0	0	0	0	0	0	0

2.6.2. Aggregating Registered Trace Data by Tsunami Name

- i) Select “Aggregation option: By Tsunami Name” on the [Registered Trace Data Table] screen. The registered [Registered Trace Data Table: By Tsunami Name] screen will appear.

The screenshot shows the '津波痕跡 データベース' (Tsunami Trace Database) interface. At the top, there is a navigation bar with the logo and 'データベース概要' (Database Overview). Below this, the main content area is titled '【痕跡データ登録数集計】' (Tsunami Trace Data Registration Count Summary). There are several radio button options for aggregation: '津波別' (By Tsunami Name), '文献別' (By Document), '都道府県別' (By Prefecture), '痕跡パターン別' (By Trace Pattern), and '測定方法別' (By Measurement Method). The '津波別' option is selected and highlighted with a red box. Below the options, there is a 'ファイル出力' (File Output) section with '全て' (All) selected. The date '2015年02月15日時点' (As of February 15, 2015) is displayed. The main data table is titled '痕跡登録数の内訳' (Breakdown of Registered Trace Data) and is sorted by tsunami name. The table has columns for '津波番号' (Tsunami Number), '津波名' (Tsunami Name), '文献数' (Number of Documents), '痕跡件数' (Number of Traces), '検測記録' (Detection Record), and '痕跡登録数の内訳' (Breakdown of Registered Trace Data) with sub-columns A, B, C, D, X, Z, and '精査中' (Under Review).

[Aggregation Option: By Tsunami Name]
Selecting this option will display the registered trace data table sorted by tsunami name.

津波番号	津波名	文献数	痕跡件数	検測記録	痕跡登録数の内訳							
					A	B	C	D	X	Z	精査中	
0008	1498伊豆南海地震津波	8	0	0	0	0	0	0	0	0	0	0
0009	1499伊豆東海地震津波	25	213	0	0	0	11	71	21	110	0	0
0010	1596豊後豊後地震津波	13	119	0	5	3	12	3	25	71	0	0
0012	1605豊後豊後地震津波	21	174	0	1	4	21	37	14	89	8	0
0013	1611豊後豊後地震津波	17	82	0	2	2	19	15	1	43	0	0
T015-01	1640駒ヶ岳噴火津波	7	8	0	0	1	0	1	0	6	0	0
0016	1662日向灘地震津波	3	18	0	0	0	7	1	1	9	0	0
0018	1677冠三陸地震津波	5	13	0	0	0	2	9	1	1	0	0
0019	1677冠三陸地震津波	11	121	0	0	11	33	41	3	33	0	0
W003	1700元禄(北米カスケード)津波	8	9	0	0	1	3	0	0	5	0	0
0020	1703元禄地震津波	42	259	0	1	12	10	77	3	154	2	0
0021	1707室土地震津波	57	612	0	50	50	150	79	21	260	2	0
0025	1741寛保(東北大気)噴火津波	16	247	0	7	9	42	38	5	146	0	0
0030	1760日向灘地震津波	3	0	0	0	0	0	0	0	0	0	0

[Data Table: By Tsunami Name]
The registered trace data table sorted by tsunami name

ii) If you select [All] for the file output option, all registered trace information will be displayed. If you select [Tide Station Only], trace information on tsunami that have occurred since 1890, when the tide station observation began, will be displayed by tsunami name.

● 津波別 ○ 文献別 ○ 都道府県別

ファイル出力 ○ 全て ● 検潮所のみ

津波番号	津波名	文献数	観測件数	検潮記録	観測記録の内訳							精度中
					A	B	C	D	X	Z		
0000	1890年三陸半島地震津波	8	0	0	0	0	0	0	0	0	0	0
0009	1890年三陸半島地震津波	25	213	0	0	0	0	11	71	21	110	0
0010	1906年東海地震津波	13	119	0	5	3	12	3	25	71	0	0
0012	1906年東海地震津波	21	174	0	1	4	21	37	14	89	0	0
0013	1911年長門三陸地震津波	17	82	0	2	2	19	15	1	43	0	0
T015-01	1949年三陸沖地震津波	7	8	0	0	1	0	1	0	6	0	0
0016	1962年三陸沖地震津波	3	18	0	0	0	0	7	1	1	9	0
0018	1977年三陸沖地震津波	5	13	0	0	0	0	2	9	1	1	0
0019	1977年三陸沖地震津波	11	121	0	0	11	33	41	3	33	0	0
W003	1792年三陸沖地震津波	8	9	0	0	1	3	0	0	5	0	0
0020	1793年三陸沖地震津波	42	259	0	1	12	10	77	3	154	2	0
0021	1793年三陸沖地震津波	57	612	0	50	50	150	79	21	260	2	0
0025	1741年東海地震津波	16	247	0	7	9	42	30	5	146	0	0
0026	1741年東海地震津波	3	4	0	0	0	0	0	0	0	0	0

[Data Table: By Tsunami Name: All]
The entire data table sorted by tsunami name is displayed.

津波番号	津波名	文献数	観測件数	検潮記録	観測記録の内訳							精度中
					A	B	C	D	X	Z		
0013	1911年長門三陸地震津波	17	82	0	2	2	19	15	1	43	0	0
0018	1977年三陸沖地震津波	5	13	0	0	0	0	2	9	1	1	0
0019	1977年三陸沖地震津波	11	121	0	0	11	33	41	3	33	0	0
0020	1793年三陸沖地震津波	42	259	0	1	12	10	77	3	154	2	0
0021	1793年三陸沖地震津波	57	612	0	50	50	150	79	21	260	2	0
0025	1741年東海地震津波	16	247	0	7	9	42	30	5	146	0	0
0026	1741年東海地震津波	3	4	0	0	0	0	0	0	0	0	0

[Data Table: By Tsunami Name: Tide Station Only]
A data table sorted by tsunami name containing only trace information on tsunami that have occurred since 1890, when the tide station started observation, is displayed.

iii) You can download the data table into an Excel file by clicking the "File Output" button.

[Excel Data Table: By Tsunami Name]
You can download the data table sorted by tsunami name as an Excel file format.

Microsoft Excel - 津波痕跡 データベース

このファイルを開くか、または保存しますか?

名前: SYUKEI20101216185456.xls
種類: Microsoft Excel ワークシート, 55.5 KB
発信元: tsunami3.civil.tohoku.ac.jp

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2.6.3. Aggregating Registered Trace Data by Document Name

- i) Select “Aggregation option: By Document Name” on the [Registered Trace Data Table] screen. When you select a tsunami name from the [Tsunami Name List], the [Registered Trace Data Table: By Document Name] screen will appear.

[Tsunami Name for Data Aggregation]
Select the tsunami name for which you would like to aggregate data from the tsunami name list.

[Aggregation Option: By Document Name]
Selecting this option will display the registered trace data table sorted by document name.

[Data Table: By Document Name]
Registered trace data table on the selected tsunami name sorted by document name

文献番号	文献名	痕跡件数	時刻記録	痕跡信頼度の内訳						精査中
				A	B	C	D	X	Z	
549	日本地震学誌(第2巻)	8	0	0	0	0	0	0	8	0
550	三陸沖震史津波の規模の再検討	79	0	0	0	0	63	2	14	0
551	慶長16年(1611)、建宝4年(1677)、宝暦12年(1763)、寛政6年(1793)、および安政3年(1856)の各三陸地震津波の検証	48	0	0	2	40	6	0	0	0
552	安政3年(1856年8月23日)八戸沖津波の規模と波及域の推定	0	0	0	0	0	0	0	0	0
553	三陸沖の古い津波のシミュレーション	0	0	0	0	0	0	0	0	0
554	北海道における安政三年(1856)三陸北三陸地震津波の痕跡とその信頼度	14	0	4	8	2	0	0	0	0
556	岩手県気仙郡と宮城県気仙郡の歴史津波	0	0	0	0	0	0	0	0	0
556	工北半島地震津波史	0	0	0	0	0	0	0	0	0
合計		149	0	4	18	42	69	2	22	0

2.6.4. Aggregating Registered Trace Data by Prefecture

i) Select “Aggregation Option: By Prefecture” on the [Registered Trace Data Table] screen. The [Registered Trace Data Table] screen appears sorted by prefecture.

[Aggregation Option: By Prefecture]
Selecting this option will display the registered trace data table sorted by prefecture.

津波番号	津波名	文献数	事件件数	検知記録	北海道	青森県	岩手県	宮城県
0008	1498阿久根南海地震津波	8	0	0	0	0	0	0
0009	1498阿久根東海地震津波	25	213	0	0	0	0	0
0010	1596奥長門地震津波	13	119	0	0	0	0	0
0012	1605奥長門地震津波	21	174	0	0	0	0	0
0013	1611奥長門地震津波	17	82	0	1	0	67	10
T015-01	1640駒ヶ岳噴火津波	7	8	0	8	0	0	0
0016	1662日向灘地震津波	3	18	0	0	0	0	0
0018	1677保寧三陸地震津波	5	13	0	0	0	12	0
0019	1677保寧三陸地震津波	11	121	0	0	0	0	9
W003	1700三陸(北半カスケード)津波	8	0	0	0	0	0	0
0020	1703三陸地震津波	42	359	0	0	0	0	0
		57	612	0	0	0	0	0
		16	247	0	173			

[Data Table: By Prefecture]
Registered trace data table sorted by prefecture

[Prefecture Name]
Click on the prefecture name link to display the area of the prefecture on the map.

- ii) If you select [All] for the File Output option, all registered trace information will be displayed. If you select [Tide Station Only], trace information on tsunami that have occurred since 1890, when the tide station observation began, will be displayed by prefecture.



【痕跡データ登録数集計】

津波別 文献別 ● 都道府県別 痕跡パターン別 測定方法別

ファイル出力 地図全体表示 ● 全て 観測所のみ 2015年02月15日時点

津波番号	津波名	文献数	観測所数	観測記録	北東	南東	北西	南西	北	南
0008	1895年三陸沖地震津波	8	0	0	0	0	0	0	0	0
0009	1896年三陸沖地震津波	26	215	0	0	0	0	0	0	0
0010	1906年東海地震津波	13	119	0	0	0	0	0	0	0
0012	1905年東海地震津波	21	174	0	0	0	0	0	0	0
0013	1811年東海地震津波	17	82	0	1	0	0	0	67	10
T015-01	1848年ノドノ波津波	7	8	0	0	0	0	0	0	0
0016	1862年三陸沖地震津波	3	10	0	0	0	0	0	0	0
0018	1877年三陸沖地震津波	6	13	0	0	0	0	12	0	0
0019	1877年三陸沖地震津波	11	521	0	0	0	0	0	0	0
W003	1700年三陸沖地震津波									
0020	1700年三陸沖地震津波									
0021	1700年三陸沖地震津波									
0025	1781年東海地震津波									

[Data Table: By Prefecture: All]
The entire data table sorted by prefecture is displayed.

【痕跡データ登録数集計】

津波別 文献別 ● 都道府県別 痕跡パターン別 測定方法別

ファイル出力 地図全体表示 ● 全て 観測所のみ 2015年02月15日時点

津波番号	津波名	文献数	観測所数	観測記録	北東	南東	北西	南西	北	南
0008	1895年三陸沖地震津波	8	0	0	0	0	0	0	0	0
0009	1896年三陸沖地震津波	10	1	0	0	0	0	0	0	0
0010	1906年東海地震津波	3	3	0	0	0	0	0	0	0
0012	1905年東海地震津波	9	10	0	0	0	0	0	0	0
0013	1811年東海地震津波									
0016	1862年三陸沖地震津波									
0018	1877年三陸沖地震津波									
0019	1877年三陸沖地震津波									
0020	1700年三陸沖地震津波									
0021	1700年三陸沖地震津波									
0025	1781年東海地震津波									

[Data Table: By Prefecture: Tide Station Only]
A data table sorted by prefecture containing only trace information on tsunami that have occurred since 1890, when the tide station started observation, is displayed.

- iii) You can download the data table into an Excel file by clicking the [File Output] button.

[Excel Data Table: By Prefecture]
You can download the data table sorted by prefecture as an Excel file format.

このファイルを開くか、または保存しますか?
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2.6.5. Aggregating Registered Trace Data by Trace Pattern

i) Select "Aggregation Option: By Pattern" on the [Trace data totalization] screen.

The registered [Trace data totalization: By Pattern] screen will appear.

[Aggregation Option: By Pattern]
Selecting this option will display the registered trace data table sorted by trace pattern for each tsunami name.



[Data Table: By Pattern]
The registered trace data table sorted by trace pattern for each tsunami name

津波番号	津波名	記載なし	浸水高	浸水深	全振幅	片振幅	上下差	港内津波高
0215	2006千島列島東方沖地震津波	3	106	0	5	0	0	0
0025	1741高松(瀬島大島)噴火津波	22	195	29	0	0	0	0
0040	1804東海地震津波	61	13	4	0	0	0	0
0203	2002台湾東方沖津波	0	2	0	2	0	0	0
0194	1996日向灘地震津波	0	0	0	3	0	0	0
W008	1868ツリノリカ地震津波	0	2	0	0	0	0	0
0216	2007千島列島東方沖地震津波	3	89	0	5	0	0	0
W006	1780千島列島津波	0	0	0	0	0	0	0
T015-01	1640駒ヶ岳噴火津波	0	6	2	0	0	0	0
0055	1899伊豆三陸地震津波	19	987	0	1	0	0	0
0031	1771八雲山地震津波	5	156	0	0	0	0	0
W003	1700元排(北米カスケード)津波	0	9	0	0	0	0	0
W021	1952カムチャッカ津波	21	194	2	4	0	0	0
0044	1854アムステルダム津波	170	778	76	1	0	0	0

ii) If you select [Above T.P.], trace data sorted by trace pattern based on the TP standard will be displayed. If you select [In document], trace data sorted by trace pattern based on the document description will be displayed.

【痕跡データ登録数集計】

○津波別 ○文献別 ○都道府県別 ●痕跡ノパターン別 ○測定方法別

ファイル出力 ●文献記載 ●TP基準 ●全て ○検潮所のみ

津波痕跡 データベース

【痕跡データ登録数集計】

○津波別 ○文献別 ○都道府県別 ●痕跡ノパターン別 ○測定方法別

ファイル出力 ●文献記載 ●TP基準 ●全て ○検潮所のみ

2015年02月15日時点

津波番号	津波名	記載なし	浸水高	浸水深	全振幅	片振幅	上下差	港内津波高
0215	2006千島列島東方沖地震津波	3	106	0	5	0	0	0
0025	1741高松(瀬島大島)噴火津波	22	195	29	0	0	0	0
0040	1804東海地震津波	61	13	4	0	0	0	0
0203	2002台湾東方沖津波	0	2	0	2	0	0	0
0194	1996日向灘地震津波	0	0	0	3	0	0	0
W008	1868ツリノリカ地震津波	0	2	0	0	0	0	0
0216	2007千島列島東方沖地震津波	3	89	0	5	0	0	0
W006	1780千島列島津波	0	0	0	0	0	0	0
T015-01	1640駒ヶ岳噴火津波	0	6	2	0	0	0	0
0055	1899伊豆三陸地震津波	19	987	0	1	0	0	0
0031	1771八雲山地震津波	5	156	0	0	0	0	0
W003	1700元排(北米カスケード)津波	0	9	0	0	0	0	0
W021	1952カムチャッカ津波	21	194	2	4	0	0	0
0044	1854アムステルダム津波	170	778	76	1	0	0	0

[Data Table: By Pattern: In document]
The data table sorted by trace pattern based on the document description is displayed.

津波痕跡 データベース

【痕跡データ登録数集計】

○津波別 ○文献別 ○都道府県別 ●痕跡ノパターン別 ○測定方法別

ファイル出力 ●文献記載 ●TP基準 ●全て ○検潮所のみ

2015年02月15日時点

津波番号	津波名	記載なし	浸水高	浸水深	全振幅	片振幅	上下差	港内津波高
0049	1517津山(大原)地震津波	42	9	0	0	0	0	0
0052	2004北東海地震津波	4	0	0	0	0	0	0
0007	1933北東海地震津波	490	1763	0	0	0	0	0
0017	1961東海地震津波	478	1448	0	0	0	0	0
0009	1949東海地震津波	1034	1427	0	0	0	0	0
0006	1947東海地震津波	648	96	0	0	0	0	0
0190	1995東海地震津波(津波)	184	0	0	0	0	0	0
0148	1919東海地震津波	188	23	0	0	0	0	0
0036	1719東海地震津波	13	103	0	0	0	0	0
0012	1660東海地震津波	121	0	0	0	0	0	0
0008	1512北東海地震	0	0	0	0	0	0	0
0043	1610東海地震津波	7	1	0	0	0	0	0
0040	1610東海地震津波	338	109	0	0	0	0	0
0002	1594東海地震津波	0	0	0	0	0	0	0

[Data Table: By Pattern: Above T.P.]
The data table sorted by trace pattern based on the TP standard is displayed.

- iii) If you select [Tide Station Only], trace information on tsunami that have occurred since 1890, when the tide station observation began, will be displayed by prefecture.

[Data Table: By Tsunami Name: All]
The entire data table sorted by tsunami name is displayed.

[Data Table: By Tsunami Name: Tide Station Only]
A data table sorted by tsunami name containing only trace information on tsunami that have occurred since 1890, when the tide station started observation, is displayed.

- iv) You can download the data table into an Excel file by clicking the "File Output" button.

[Excel Data Table: By Trace Pattern]
You can download the data table sorted by trace pattern as an Excel file format.

2.6.6. Aggregating Registered Trace Data by Measuring Method

- i) Select "Aggregation Option: By Measuring method" on the [Trace data totalization] screen. The registered [Trace data totalization: By Measuring method] screen will appear.

[Aggregation Option: By Measuring method]
Selecting this option will display the registered trace data table sorted by measuring method for each tsunami name.

津波番号	津波名	観測所	ハンドレベル	レーザー測量	目測	古文書	聞き取り/証言	伝承	写
0181	1993福島半島沖地震津波	13	0	0	0	0	0	0	
0032	1780鹿児島湾北部海嘯埋没津波(9月)	0	0	0	0	0	0	0	
0171	1904日向灘地震津波	12	0	0	0	0	0	0	
0053	1894伊豆半島南東沖地震津波	5	0	0	0	0	0	0	
0190	1995奄美大島近海津波(全震)	60	0	0	0	0	4	0	
0009	1498阿波海地震津波	0	0	0	0	103	0	4	
0034	1781鹿児島湾海嘯埋没津波	0	0	0	0	1	0	0	
W009	1877ナリノミヅ地震津波	0	0	0	0	0	0	0	
0057	1897三陸沖沖地震津波	0	0	0	0	0	0	0	
0142	1970日向灘地震津波	39	0	0	0	0	0	0	
0201	2001年東国近海津波	6	0	0	0	0	0	0	
0203	2002台湾東方沖津波	4	0	0	0	0	0	0	
0136	1968日向灘地震津波	70	0	0	3	0	0	0	

[Data Table: By Measuring method]
The registered trace data table sorted by measuring method for each tsunami name

- ii) You can download the data table into an Excel file by clicking the [File Output] button.

[Excel Data Table: By Measuring method]
You can download the data table sorted by measuring method in Excel file format.

ファイルのダウンロード

このファイルを開くか、または保存しますか?

名前: SYUKKE20101216185456.xls
種類: Microsoft Excel ワークシート, 55.5 KB
発信元: tsunami3.civil.tohoku.ac.jp

開く(O) 保存(S) キャンセル

インターネットのファイルは役に立ちますが、ファイルによってはコンピュータに問題を起すものもあります。発信元が信頼できない場合は、このファイルを開いたり保存したりしないでください。危険性の説明

3. Investigating Tsunami Source Model Information

3.1. Viewing Tsunami Source Model Information

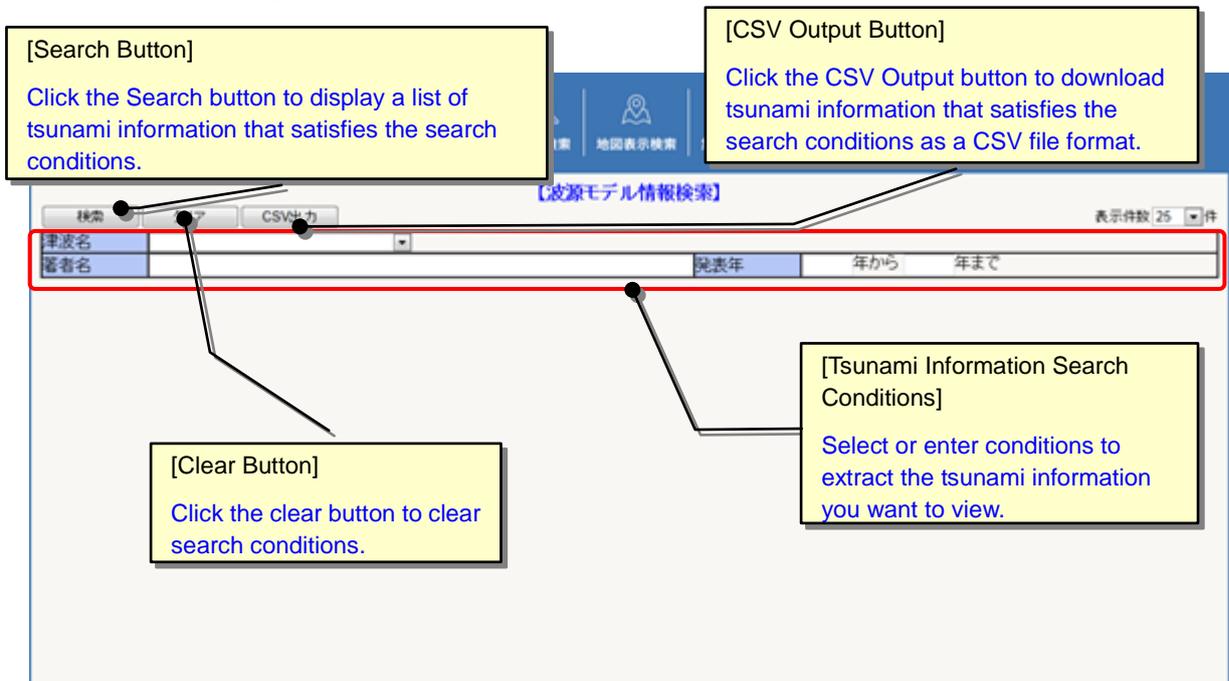
3.1.1. Searching for Tsunami Source Model Information Using Keywords

- i) Click on the [Source model info] sub-menu from the [Search] menu.



- ii) The [Tsunami Source Model Search] screen will appear. Select or enter search
When you click the [Search] button, the [Tsunami Source Model List] screen containing tsunami source model information that satisfies the search conditions will be displayed. You can download the search results as a CSV file (comma-separated text) by clicking the [CSV Output] button.

Click the [Clear] button to clear (initialize) the search conditions.



Search conditions for the tsunami source model are as shown in the table below:

No.	Item Name	Entry Format	Size	Check	Description
1	Tsunami name	List	—		Select the tsunami name from the list.
2	Author name	Manual entry	50 characters		Manually enter the name of the author of the document that serves as the basis of the tsunami source model. Searching is performed by partial match.
3	Year of publication	Manual entry	4 digits		Manually enter the year of publication (in Gregorian calendar format). "From," "To" and "Period" searches are available.

iii) You can view detailed tsunami source model information, search for related tsunami information and create a distribution map of trace heights from the [Tsunami Source Model List] screen.

The screenshot shows a web application interface for tsunami information. It features a table with columns for Tsunami Name, Model Number, Author Name, and Publication Year. Callout boxes provide instructions on how to interact with the interface:

- [Trace Height Distribution Button]:** Click the trace height distribution button to create a distribution map of related tsunami trace heights.
- [Sorting Lists]:** Click [Heading] in light blue to sort tsunami information in descending or ascending order.
- [Author Name]:** Click on an [Author Name] link to open the corresponding [Detailed Tsunami Source Model Information] screen.
- [Related Information: Tsunami Name]:** Click on a [Tsunami Name] link to open the corresponding [Detailed Tsunami Information] screen.
- [Model Number]:** Click on a [Model Number] link to open the corresponding [Detailed Tsunami Source Model Information] screen.

津波名	モデル番号	著者名	出版年
1490房総半島地震津波	1	伊藤員 伊藤員 土木学会 伊藤員 土木学会 伊藤員 土木学会	1981年 2002年
1655房総半島地震津波	1	伊藤員	1981年
1611房総三陸地震津波	1	伊藤員	1977年
1703元禄地震津波	1	五原 一山 山本 重平 安藤 雅生	1973年
1703元禄地震津波	2	IOKIHIKO.MATSUDA	1978年
1707室土地震津波	1	Masataka.Ando	1975年
1707室土地震津波	2	伊藤員	1981年
1793寛政三陸地震津波	1	伊藤員 伊藤員 土木学会 伊藤員 土木学会	1977年 2002年

3.1.2. Viewing Detailed Tsunami Source Model Information

- i) Display the tsunami source model list screen. (Refer to “[3.1.1. Searching for Tsunami Source Model Information Using Keywords](#).”)
- ii) Click on the [Model Number] link for the tsunami source model you want to view in the tsunami source model information list.

Detailed information on the selected tsunami source model will be displayed on a separate screen.

[Crustal Movement Contour]
The crustal movement contour for the tsunami source model is displayed on a map.

[Tsunami Name]
Click the tsunami name to display the detailed tsunami information related to the tsunami source model.

[Trace Height Distribution Map]
Click the trace height distribution map button to create a distribution map of tsunami trace heights for the tsunami source model.

[Detailed Tsunami Source Model Information]
Detailed tsunami source model information is displayed.

[Tsunami Source Model Document Information List]
A list of model document information related to the tsunami source model will be displayed.
Click on the [Document Name] link to display the [Detailed Model Document] screen.

[CSV Output Button]
Click the CSV Output button to download the parameters as a CSV file format.

[Parameter Details Button]
Click the parameter details button to display the [Parameter Details] screen for the tsunami source model.

Table 1: Tsunami Source Model List

津波名	モデル番号
1490伊豆半島地震津波	1
1695関東海地震津波	1
1611関東三陸地震津波	1
1703元陸地震津波	1
1703元陸地震津波	2
1707宝島地震津波	1
1707宝島地震津波	2

Table 2: Tsunami Source Model Document Information List

文獻名	著者名	発行年
東海海溝におこった歴史津波の数值実験	相田 勇	1981年
東海海溝の津波評価技術	社団法人 土木学会、原子力土木委員会 津波評価部会	2002年

Table 3: Parameter Details

パラメータ	値
小断層No.	1
小断層No.	3

3.1.3. Viewing Detailed Tsunami Source Model Parameter Information

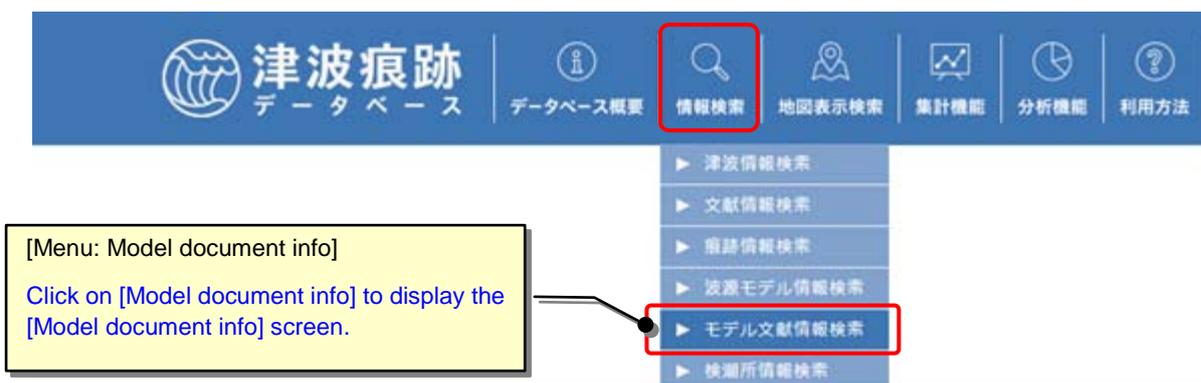
- i) Display the detailed tsunami source model screen. (Refer to “[3.1.3. Viewing Detailed Tsunami Source Model Information.](#)”)
- ii) Click on the “Parameter Details” button of the parameter for which you want to view the details from the parameter list in the lower part of the screen. Detailed information on the selected parameter will be displayed on a separate screen.

[Detailed Parameter Information]
Detailed parameter information on the tsunami source model is displayed.

3.2. Viewing Tsunami Source Model Document Information

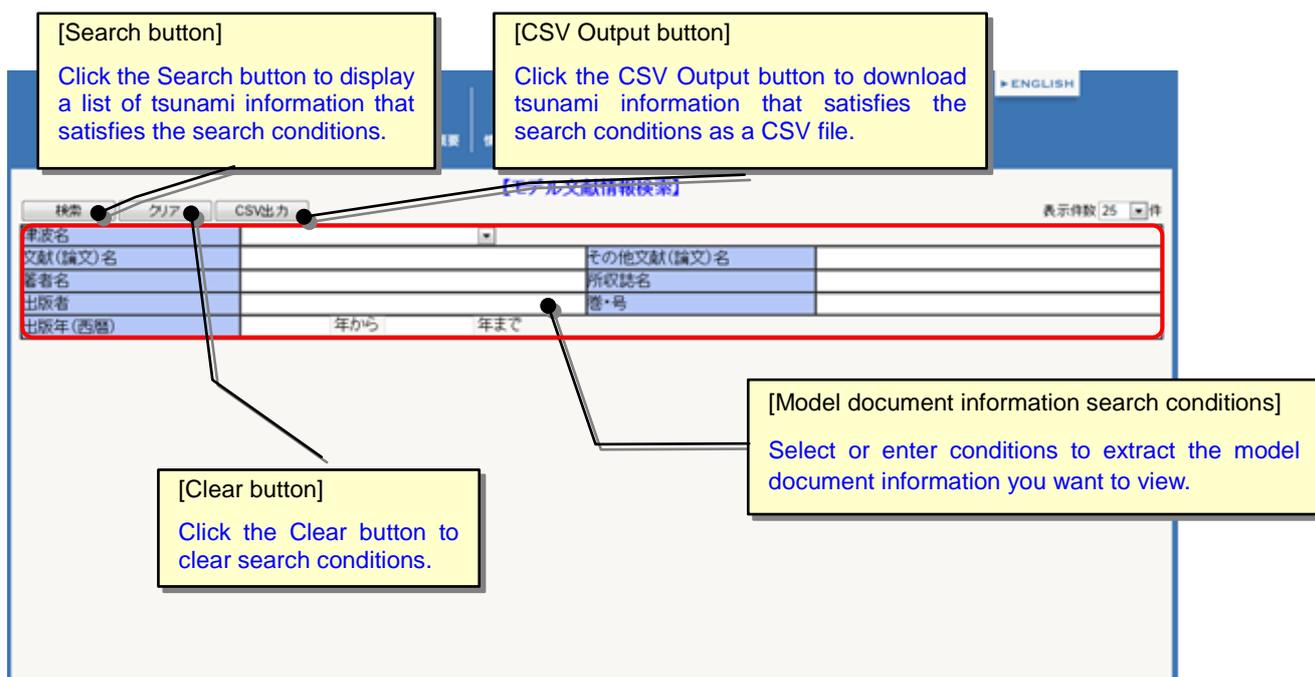
3.2.1. Searching for Tsunami Source Model Document Information Using Keywords

- i) Click on the [Model document info] sub-menu from the [Search] menu.



- ii) The [Model document info] screen will appear. Select or enter search conditions. When you click the [Search] button, the [Tsunami Source Model Document Information List] screen containing tsunami source model document information that satisfies the search conditions will be displayed. You can download the search results as a CSV file (comma-separated text) by clicking the [output to CSV] button.

Click the [Clear] button to clear (initialize) the search conditions.



Search conditions for tsunami source model documents are as shown in the table below:

No	Item Name	Entry Format	Size	Check	Description
1	Tsunami name	List	—		Select the name of the tsunami from the list.
2	Document (article) name	Manual entry	100 characters		Manually enter tsunami source model document name(s). Search is performed by partial match.
3	Other document (article) name	Manual entry	100 characters		Manually enter other tsunami source model document (article) name(s). Search is performed by partial match.
4	Author name	Manual entry	50 characters		Manually enter the name of the author of the tsunami source model document. Search is performed by partial match.
5	Journal title	Manual entry	200 characters		Manually enter the journal title of the tsunami source model document. Search is performed by partial match.
6	Publisher	Manual entry	200 characters		Manually enter the publisher of the tsunami source model document. Search is performed by partial match.
7	Volume, issue	Manual entry	50 characters		Manually enter the volume and issue of the tsunami source model document. Search is performed by partial match.
8	Publish year	Manual entry	4 digits		Manually enter the publishing year (in Western calendar format) of the tsunami source model document. “From,” “To” and “Period” searches are available.

- iii) You can view detailed tsunami source model document information and related model information lists from the [Tsunami Source Model Document List] screen.

The screenshot shows a web interface for listing tsunami source model documents. At the top, there are navigation buttons for '検索' (Search), 'クリア' (Clear), and 'CSV出力' (CSV Output), along with a search filter dropdown and a '表示件数 25' (Display 25 items) option. A search bar contains the text '津波名'. Below the search bar are filter fields for '文献(論文)名', '著者名', '出版者', and '出版年(西暦)', with a '年から' (From year) and '年まで' (To year) range selector. A '検索結果: 25 / 54件' (Search results: 25 / 54 items) indicator is present. The main table lists documents with columns for '文献(論文)名', '著者名', '出版年', and '関連情報'. The '関連情報' column contains '波源モデル' (Source Model) buttons. Annotations include:

- '[Sorting lists]' pointing to the search bar area, with text: 'Click [Heading] in light blue to sort tsunami information in descending or ascending order.'
- '[Tsunami Source Model]' pointing to a '波源モデル' button, with text: 'Click the [Tsunami Source Model] button to display the related [Tsunami Source Model List] screen.'
- '[Document (Article) Name]' pointing to a document title, with text: 'Click on a [Document (Article) Name] link to open the corresponding [Detailed Document Information] screen.'

文献(論文)名	著者名	出版年	関連情報
1933年三陸沖地震の地殻変動	藤井隆一郎	1977年	波源モデル
1944年東南海地震津波の波源モデル	相田真	1979年	波源モデル
1952年十勝沖地震の断層モデル	笠原桂	1975年	波源モデル
1983年日本海中部地震による災害の社会的影響研究	田中和夫・佐藤博典・小菅正祐・佐藤裕	1984年	波源モデル
1983年日本海中部地震の震源	石川有三・武庫高・浜田信生・勝又謙・住竹健治・阿部勝征・菊池正幸・須藤研・高橋道夫・相原静雄・三上直也	1984年	波源モデル
1983年日本海中部地震津波の波源伝播モデル	相田真	1984年	波源モデル
2003年十勝沖地震におけるアスペ

3.2.2. Viewing Detailed Tsunami Source Model Document Information

- i) Display the tsunami source model document list screen. (Refer to “[3.2.1. Searching for Tsunami Source Model Document Information Using Keywords.](#)”)
- ii) Click on the [Document (Article) Name] link for the tsunami source model document you want to view in the tsunami source model document information list. Detailed information on the selected tsunami source model document will be displayed on a separate screen.

The screenshot shows the '津波痕跡 データベース' (Tsunami Source Model Database) interface. The search results page displays a table of documents. A yellow box highlights the search results table, and a red box highlights the detailed document information page. An arrow points from the highlighted search result to the detailed page. Two callout boxes provide instructions on how to view the detailed information.

[Detailed Model Document Information]
Detailed model document information is displayed.

[Tsunami Source Model Information List]
A list of tsunami source model information related to the model document will be displayed.
Click on the [Model Number] link to display the [Detailed Tsunami Source Model] screen.

津波名	モデル番号
1933年三陸沖地震津波	5

基本情報	項目	内容
文獻(論文)名	文獻(論文)名	1933年三陸沖地震の地殻変動
その他の文獻(論文)名(英語タイトル等)	その他の文獻(論文)名(英語タイトル等)	Crustal Movements Associated with the 1933 Sanriku-oki, Japan, Earthquake
著者名	著者名	藤井隆一郎
所収誌名	所収誌名	測地学会誌
出版者	出版者	
巻・号	巻・号	23
頁数	頁数	74-81
出版年	出版年	1977年
パラメータハンドブック記載ページ	パラメータハンドブック記載ページ	177
著作権	著作権	文獻に適用される権利に関する情報
データ登録・更新	データ登録・更新	2015/02/08 10:27:05

3.3. Aggregating Tsunami Source Model Information

3.3.1. Displaying the Registered Model Data Table Screen

- i) Click on the [Source model] sub-menu from the [Totalization] menu.

The [Model data totalization] screen will appear.



- ii) When you select a tsunami name for which you would like to aggregate data from the [Tsunami Name List] on the [Model data totalization] screen, a data table for the corresponding tsunami source model and trace information will be displayed.

[Tsunami Name for Data Aggregation]
 Select the tsunami name for which you would like to aggregate data from the tsunami name list.

[Data Table: Tsunami Source Model]
 Table for tsunami source models and registered trace data sorted by the year of document publication for the selected tsunami.

波源モデル文献発行年		～1960	～1970	～1980	～1990	～2000	～2005	～2010	～2015	～2020	合計
波源モデル	モデル数	0	0	0	0	0	0	0	0	0	0
津波痕跡の文献発行年		～1960	～1970	～1980	～1990	～2000	～2005	～2010	～2015	～2020	合計
痕跡データ 信頼度	A	764	236	0	0	0	0	0	0	0	1000
	B	608	104	0	0	0	0	0	0	0	712
	C	395	129	0	0	0	0	0	0	0	524
	D	31	6	0	0	0	0	0	0	0	37
	X	0	0	0	0	0	0	0	0	0	0
	Z	92	593	0	0	0	0	0	0	0	685
	精査中 その他	5 0	0 0								
小計	1895	1068	0	0	0	0	0	0	0	0	0

- iii) If you select [All] for the file output option, all registered tsunami source model information will be displayed. If you select [Tide Station Only], trace information on tsunami that have occurred since 1890, when the tide station observation began, will be displayed by the published year of tsunami source model documents.

【波源モデル登録数集計】

ファイル出力 1960チリ地震津波

全て 検潮所のみ

[DataTable: By Tsunami Source Model: All]
The entire data table sorted by tsunami source model is displayed.

[DataTable: By Tsunami Source Model: Tide Station Only]
A data table sorted by tsunami source model containing only trace information on tsunami that have occurred since 1890, when the tide station observation began. Registered trace data (when "tide station" is selected as the measuring method) for each tsunami is displayed.

- iv) You can download the data table into an Excel file by clicking the [File Output] button.

[Excel Data Table: By Document]

You can download the data table sorted by the year of document publication as an Excel file format.

4. Investigating Tide Station Information

4.1. Viewing Tide Station Information

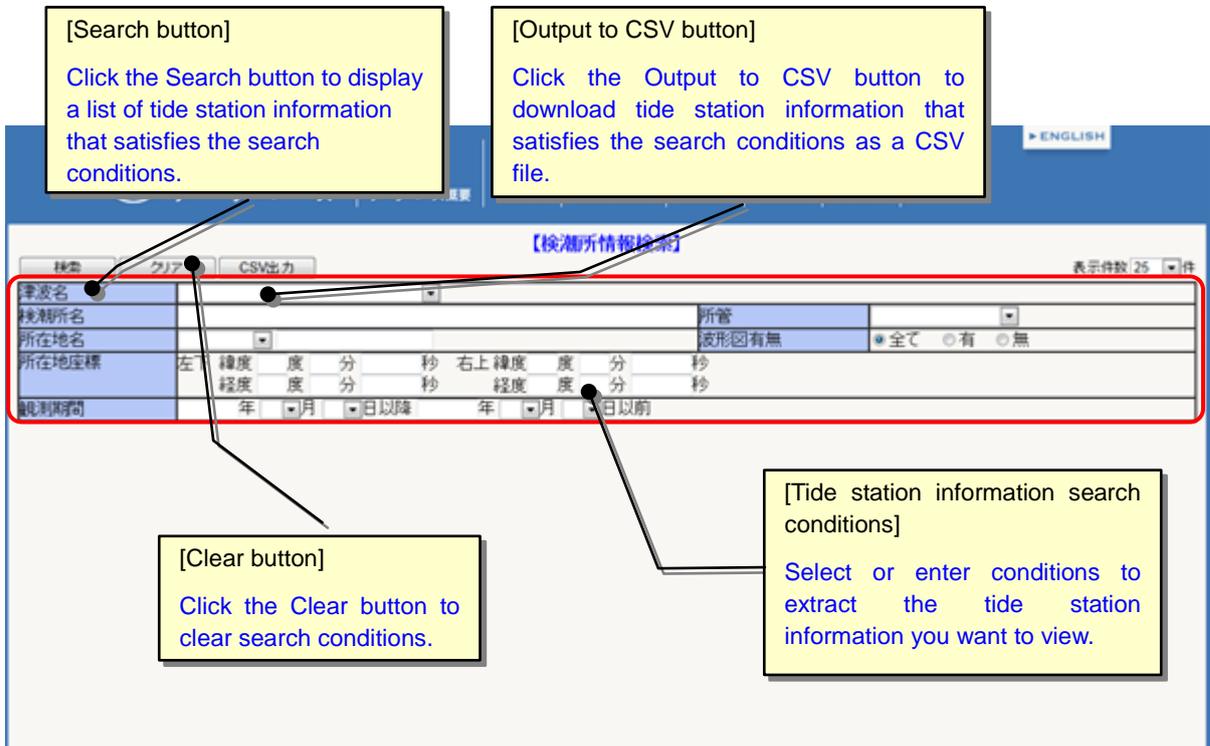
4.1.1. Searching for Tide Station Information Using Keywords

- i) Click on the [Tide station info] sub-menu from the [Search] menu.



- ii) The [Tide station info] screen will appear. Select or enter search conditions.

When you click the [Search] button, the [Tsunami Source Model List] screen containing tide station information that satisfies the search conditions will be displayed. You can download the search results as a CSV file (comma-separated text) by clicking the [Output to CSV] button. Click the [Clear] button to clear (initialize) the search conditions.



Search conditions for the Tide station info are as shown in the table below:

No	Item Name	Entry Format	Size	Check	Description
1	Tsunami name	List	—		Select the name of the tsunami from the list.
2	Tide station name	Manual entry	100 characters		Manually enter the name of the tide station. Multiple conditions can be set by separating keywords with a space. Hiragana can be used for searching. Search is performed by partial match.
3	Administrative organization	List	—		Select the supervisory agency of the tide station from the list.
4	Location	List Manual entry	— 200 characters		Select the prefecture of a tide station from the list and manually enter the location name. Location name search is performed by partial match.
5	Waveform	Selection	—		Search for whether or not waveform charts are registered with the related observation/research information.
6	Coordinates	Manual entry	Degree: 2-digit integer Minute: 2-digit integer Second: 2-digit integer, 3-digit decimal number		Manually enter the latitudes and longitudes of the upper-right corner and the lower-left corner of the area you want to search, respectively.
7	Survey Date	Manual entry	Date		Search for operating tide stations during the designated period. “From,” “To” and “Period” searches are available.

- iii) You can view detailed tide station information, confirm related tsunami information and tsunami traces, and check locations of tide stations on the map from the [Tide Station List] screen.

The screenshot shows the '津波痕跡 データベース' (Tsunami Traces Database) interface. At the top, there is a navigation bar with icons for 'データベース概要', '情報検索', '地図表示検索', '集計機能', '分析機能', and '利用方法'. The main content area displays a search results table for tide stations. The table has columns for '選択' (Select), '観測所コード' (Observation Station Code), '観測所名' (Observation Station Name), '所管' (Managed by), '所在地' (Location), and '関連情報' (Related Information). The table lists five stations, including '石狩湾新港' and '小樽港'. Callout boxes provide instructions on how to interact with the interface:

- [Sorting Lists]**: Click [Heading] in light blue to sort tsunami information in descending or ascending order.
- [Related Information: Tsunami Information]**: Click on a [Tsunami Information] button to open the observing [Tsunami Information list] screen.
- [Tide Station Name]**: Click the [Tide Station Name] link to display the [Detailed Tide Station Information] screen.
- [Related Information: Trace Information]**: Click on a [Trace Information] button to open the corresponding [Detailed Tsunami Information] screen.

選択	観測所コード	観測所名	所管	所在地	関連情報
<input type="checkbox"/>	01024	石狩湾新港 (1983-09-19)	北海道開発局	北海道 石狩市新港東4丁目(所管提供資料)	津波情報 観測情報
<input type="checkbox"/>	01024	石狩湾新港 (1983-05-00 - 1983-05-00)	北海道開発局	北海道 石狩市新港東4丁目(所管提供資料及び文献記載の図から総合して推定)	津波情報 観測情報
<input type="checkbox"/>	01024	石狩湾新港 (1983-05-00 - 1983-09-18)	北海道開発局	北海道 石狩市新港東4丁目(全国航海場一覽)	津波情報 観測情報
<input type="checkbox"/>	01025	小樽港 (1991-02-00)	北海道開発局	北海道 小樽市築港2-2(所管提供資料)	津波情報 観測情報
<input type="checkbox"/>	01025	小樽港 (1935-11-00 - 1991-02-00)	北海道開発局	北海道 小樽市築港2(所管提供資料)	津波情報 観測情報

4.1.2. Viewing Detailed Tide Station Information

- i) Display the Tide Station List screen. (Refer to “[5.1.1. Searching for Tide Station Information Using Keywords](#)”). If there are relocations, information is displayed for each period reflecting the relocations.
- ii) Click on the [Tide Station Name] link for the tide station you want to view in the Tide Station List. Detailed information on the selected tide station will be displayed on a separate screen.

[Map Display]
Click the Map Display button to display the location of the tide station on a map.

[Detailed Tide Station Information]
Detailed information on the tide station will be displayed.

[Observation/Research Information List]
Observation/research information on the tide station is displayed in a list.
Click on the [Source Document Name] link to display the [Detailed Observation/Research Information] screen.

[Trace Data Table]
This table shows the number of trace information items related to the tide station.

The interface shows a search result table with columns: 選択, 検潮所コード, 検潮所名. A row is selected for 石見津波 (1983-05-00 - 1983-05-00). A callout points to the '地図表示' button. Another callout points to the '検潮所名' link in the table. A large red box highlights the detailed information panel on the right, which includes:

- 全国検潮所一覧** (National Tide Station List)
- 登録番号** (Registration Number): 2205
- 都道府県別番号** (Prefecture Number): 0702
- 検潮所名** (Tide Station Name): 小名浜
- 名称** (Name): 小名浜
- よみがな** (Nickname): おなはま
- 組織** (Organization): 気象庁
- 詳細** (Details): 東北地方測量部
- 所管** (Supervising Agency): 平983-0842 宮城県仙台市宮城野区五輪1丁目 3-15 仙台第3合同庁舎/022-295-8611
- 問い合わせ先** (Contact): 福島県 福島県いわき市小名浜字高山地先※
- 地名** (Location): 福島県 福島県いわき市小名浜字高山地先※
- 位置情報先リンク** (Location Link): <http://portal.cyberjapan.jp/site/mapusa4/?crs=1&b=365615&l=1405331&z=16#crs=1&b=365615&l=1405331&z=16&zoom=15&lat=36.93694&lon=140.89194&layers=BTTT>
- 緯度** (Latitude): 36度 56分 13.000秒 (36.93694)
- 経度** (Longitude): 140度 53分 31.000秒 (140.89194)
- 観測期間** (Observation Period): 開始年月日: 1977-07-00, 終了年月日: 1977-07-00, 廃止年月日: 1977-07-00
- 測定方法** (Measurement Method): フース型
- 井戸口径(m)** (Well Diameter): 非公開
- 排水管** (Drainage Pipe): 設置当初の内径(m): 非公開, 設置当初の長さ(m): 非公開
- 備考** (Remarks): ※=小名浜港4号埠頭@昭和52.7#移転, データ登録, 更新: 2015/02/03 13:11:27

Below the detailed information, there are two tables:

津波関連 (Tsunami Related)

津波名	出典文献名	著者名
1952カムチャッカ津波	資料目録名: 昭和27年11月5-6日 1952年カムチャッカ小名浜(移転記録)	観測者: 小名浜測候所
1983日本海中部地震津波	『日本海中部地震津波の発生機構と被害』文部省科学研究費 自然現象特別	研究代表者: 首藤伸夫

資料関連 (Document Related)

調査年月日	出典文献名	著者名
No records found.		

関連ファイル情報 (Related File Information)

No	資料名
No records found.	

At the bottom, there is a table for related tsunami information:

この検潮所に関連付けられた津波情報

観測集計	件数
観測信頼度	0
A:0 B:0 C:0 D:0 X:0	その他:0

4.1.3. Viewing Detailed Observation/Research Information

- i) Display the detailed tide station screen. (Refer to “[5.1.2. Viewing Detailed Tide Station Information](#)”).
- ii) Click on the [Source Document Name] link of the observation/research information for which you want to view the details in the middle part of the screen. Detailed information on the selected observation/research will be displayed on a separate screen.

[Waveform Chart File]
Click on the [Waveform Chart Material Name] link to display the registered waveform chart files.

[Detailed Observation/Research Information]
Detailed observation/research information is displayed.

全国観測所一覧	登録番号	2205
観測所名	名称	小名浜
所在地	地名	福島県 福島市
観測期間	開始年月日	1977-07-00
測定方法	井戸内径(m)	ブース型
導水管	設置当初の内径(m)	非公開
備考	設置当初の長さ(m)	非公開
データ登録・更新		2015/02/03 13:11:27

津波関連	津波名	出典文献名	著者名
	1952カムチャッカ津波	資料図表名: 昭和27年11月5-6日、1952年カムチャッカ小名浜(桃割記録)	観測者: 小名浜測候所
	1983日本海中部地震津波	『日本海中部地震津波の発生メカニズムと破壊力』文部省科学研究所 資料図表名: 昭和27年11月5-6日、1952年カムチャッカ小名浜(桃割記録)	研究代表者 首藤伸夫

【波形図ファイル情報】	No	波形図資料名
	1	昭和27年11月5-6日、1952年カムチャッカ小名浜(07002)

【関連ファイル情報】	No	項目
		07002 【観測所名】小名浜 @@【波形図名】5-6 昭和27年11月5-6日、1952年カムチャッカ小名浜(07002) @@2014年 谷岡先生からの提供による
		データ登録・更新 2015/02/05 19:51:21

この観測所に関連付けられた津波情報
 観測集計 件数 0
 観測信頼度 A:0 B:0 C:0 D:0 X:0 その他:0

4.2. Aggregating Tide Station Information

4.2.1. Displaying the Registered Trace Data Table Screen

- i) Click on the [Tide station] sub-menu in the [Totalization] menu.

The [Tide station data totalization] screen will appear.



[Administrative Organizations]
Place check marks for the supervisory agencies of the tide stations whose data you want to aggregate, and then click the [Refresh] button to extract and aggregate relevant data.

津波番号	津波名	検潮所	波形回	登録数
0038	1793宮城西津軽地震津波	0	0	0
0039	1793宮城三陸地震津波	0	0	0
0040	1804新潟地震津波	0	0	0
0041	1833天保(山形県沖)地震津波	0	0	0
0043	1843天保(宮城沖)地震津波	0	0	0
0044	1854安政(東海)地震津波	0	0	0
0045	1854安政(南海)地震津波	0	0	0
0048	1856安政三陸(八戸沖)地震津波	0	0	0
0053	1894開成半島南東沖地震津波	0	0	5
0055	1896明治三陸地震津波	0	0	1
0057	1897三陸(大川)地震津波	0	0	0
0059	1899宮城(宮城沖)地震津波	0	0	0
0063	1911豊後島地震津波	0	0	0

[Data Table: Tide Stations]
Table for the number of tide stations that observed each tsunami, registered waveform charts, and registered trace data (when "tide station" is selected as the measuring method) for each tsunami

**Tsunami Trace Database
Operation Manual**

7.2 Edition

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