

Canadian Hydrographic Service Digital Data Portal User Guide — Clients

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Privacy Notice Regarding Registration of Canadian Hydrographic Service Digital Charts

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Office of the Privacy Commissioner of Canada
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TTY: (819) 994-6591

Introduction

This user guide will assist you in navigating the Canadian Hydrographic Service (CHS) Digital Data Portal.

The CHS Digital Data Portal is the only source for official up-to-date digital charts and bathymetric data for Canadian waters.

In this guide, you will learn:

- How to create and register a GCKey account;
- How to acquire charts for navigational purposes;
- How to acquire charts and bathymetric data for non-navigational purposes.

About Canadian Hydrographic Service Digital Charts

The CHS Digital Data Portal provides access to digital charts according to your purpose. There are two purposes:

- **Navigational:** You intend to use charts to navigate a vessel through Canadian waterways.
- **Non-Navigational:** You intend to use charts or bathymetric data for purposes unrelated to navigating a vessel. Non-navigational purposes can include—but are not limited to—scientific research, underwater construction, the use of charts in display and more.

Acquiring charts for navigational purposes requires purchasing a chart from a [CHS authorized dealer](#).

Acquiring charts for non-navigational purposes requires [obtaining a licence](#) from the CHS.

NOTE: It is important that you acquire charts according to your correct purpose. For example, you are prohibited from acquiring a chart for non-navigational purposes but then using the chart for navigational purposes afterwards.

User Aids

There are three types of user aids found throughout this guide:

- **TIP:** Additional or alternative steps you may want to complete.
- **NOTE:** Additional information that is relevant to you as you carry out a procedure.
- **WARNING:** Important information you will need to know prior to completing a step, often to prevent loss of data.

User Guide Structure

This user guide is divided into four sections:

- [Getting Started](#)
- [Acquiring Charts for Navigational Purposes](#)
- [Acquiring Charts and Bathymetric Data for Non-Navigational Purposes](#)
- [Reference Information](#)

Each section begins with an overview before describing the steps that you will follow.

Getting Started

This section explains how to get started using the CHS Digital Data Portal. In order to log in to the CHS Digital Data Portal, you must first create a GCKey Account and register the account with Fisheries and Oceans Canada.

This section covers:

- [Creating a GCKey account](#)

Creating a GCKey Account

You must create a GCKey Account in order to log into the CHS Digital Data Portal.

To create a GCKey account

1. Please navigate to <http://chs-shc.gc.ca/charts-cartes/gckey/index-eng.html>.
2. Follow the instructions on the website to create a GCKey account and log into the CHS Digital Data Portal.
3. After logging into the CHS Digital Data Portal, please proceed to the next section "[Acquiring Charts for Navigational Purposes.](#)"

Acquiring Charts for Navigational Purposes

This section explains how to acquire charts for navigational purposes. To acquire charts for navigational purposes, they must be purchased from a [CHS authorized dealer](#). Once you have purchased a chart, the dealer will provide a transaction code which you will enter into the CHS Digital Data Portal. Entering this transaction code into the CHS Digital Data Portal will validate the transaction and add the chart to your Active Products list. After adding the chart to your Active Products list, you will be able to download your purchased chart.

Navigational purposes are defined as using charts to navigate a vessel through Canadian waterways.

NOTE: If you intend to use your chart for *non-navigational* purposes, please refer to the next section titled "[Acquiring Charts and Bathymetry Data for Non-Navigational Purposes.](#)"

This section covers:

- [Obtaining a transaction code from a CHS authorized dealer](#)
- [Adding a chart to your Active Products using the transaction code](#)
- [Downloading your products](#)

Obtaining a Transaction Code from a CHS Authorized Dealer

The first step in acquiring digital charts is to contact a CHS authorized dealer, purchase your charts, and obtain a transaction code.

To obtain a transaction code from a CHS authorized dealer

1. Contact a CHS authorized dealer.

NOTE: A list of CHS authorized dealers can be found here: <http://www.charts.gc.ca/charts-cartes/dealer-depositaire-eng.html>

2. Purchase your desired chart from the dealer.

Transaction Code	Date (YYYY-MM-DD)	Product	Type	Quantity	Retail Price
Dealer:					
####-####-####-####-####-####	2018-07-03	RM-CEN06-V3 - Georgian Bay (Last update 2015-06-10)	BSBv3 Collections	1	\$74.95
		V-2201 - Georgian Bay / Baie Georgienne	S-57 ENC's for Individual Charts	1	\$25.00
Grand Total (without tax)					\$99.95

NOTE: After purchasing your desired chart, the dealer will provide you with a 16-digit transaction code (see highlighted text in image above). **Save this code** because you will need it to validate your purchase through the CHS Digital Data Portal.

Adding a Chart to Your Active Products Using the Transaction Code

Once you have obtained a transaction code from a CHS authorized dealer, you must enter the code into the CHS Digital Data Portal to validate the transaction. Once the transaction is validated, the chart will be added to your Active Products list, meaning that you will be able to download the chart. Digital charts in your Active Products list will be automatically updated throughout the duration of your End User Licence Agreement (EULA).

NOTE: Charts purchased for navigational purposes come with free updates for a period of two (2) years beginning at the moment you enter the transaction code. Once the two-year period has passed, you will be required to purchase a new chart. Please return to the CHS Digital Data Portal periodically throughout that time to see if there are updates, and download them as applicable.

To add a chart to your Active Products using the transaction code

1. Locate the **Transaction Code** field on the “My Products” page.

TIP: The “My Products” page will be the first page you will see after logging into the CHS Digital Data Portal. The “My Products” page can always be returned to via the **My Products** button in the menu along the left side of the screen.

2. Enter your **16-digit transaction code** for your purchase into the Transaction Code field.

CHS Digital Data Portal

My Products

My Licence Applications

Licence Application Portal

Update Your Personal Information

Help

Logout

Feedback

My Products

Add Products to Your Account

To add products to your account, simply enter your Transaction Code below. Transaction codes are obtained by purchasing digital charts from an [authorized chart dealer](#).

▶ Need help? Click here to see examples.

Transaction Code:
#####

I have read and accepted the [End User Licence Agreement](#).

+ Add Product

3. Please read the **End User Licence Agreement**. Afterwards, add a **checkmark** in the box next to “I have read and accepted the End User Licence Agreement.”

CHS Digital Data Portal

My Products

My Licence Applications

Licence Application Portal

Update Your Personal Information

Help

Logout

Feedback

My Products

Add Products to Your Account

To add products to your account, simply enter your Transaction Code below. Transaction codes are obtained by purchasing digital charts from an [authorized chart dealer](#).

▶ [Need help? Click here to see examples.](#)

Transaction Code:

####

I have read and accepted the [End User Licence Agreement](#).

+ Add Product

4. Click the **Add Product** button.

CHS Digital Data Portal

My Products

My Licence Applications

Licence Application Portal

Update Your Personal Information

Help

Logout

Feedback

My Products

Add Products to Your Account

To add products to your account, simply enter your Transaction Code below. Transaction codes are obtained by purchasing digital charts from an [authorized chart dealer](#).

▶ [Need help? Click here to see examples.](#)

Transaction Code:

####

I have read and accepted the [End User Licence Agreement](#).

+ Add Product

NOTE: After you have entered the transaction code and clicked Add Product, the digital chart(s) will appear in the Active Products section of the “My Products” page.

Downloading Your Products

After you have entered the transaction code and clicked Add Product, the chart(s) will appear in the Active Products section of the “My Products” page. Here you are able to download your purchased products onto your computer.

To download your products

1. Navigate to the Active Products section of the “My Products” page.

CHS Digital Data Portal

My Products

Add Products to Your Account

To add products to your account, simply enter your Transaction Code below. Transaction codes are obtained by purchasing digital charts from an [authorized chart dealer](#).

► [Need help? Click here to see examples.](#)

Transaction Code:

I have read and accepted the [End User Licence Agreement](#).

[+ Add Product](#)

Active Products - 7

In the table below you will find a list of all CHS products for which you have an active agreement. Check the status column to see if your product has been updated since the last time you accessed your account. If an update is available, click on the **Download** button to retrieve the updated files.

Filter items Showing 1 to 7 of 7 entries | Show **25** entries

Id	Status	Product	Agreement
15972	Never downloaded	RM-1203 - Tadoussac à/to Cap Éternité	Download
15632	Never downloaded	RM-1234 - Cap de la Tête au Chien au/to Cap aux Oies	Download
15828	Never downloaded	RM-2067 - Hamilton Harbour	Download
15941	Never downloaded	V-1202 - Cap Éternité à/to Saint Fulgence	Download
15631	Update available	RM-1230 - Plans-Péninsule de la Gaspésie	Download
15629	Update available	RM-CEN06 - Georgian Bay	Download
15977	Up to date	RM-1202 - Cap Éternité à/to Saint Fulgence	Download

2. Select the **Download** button next to the product you wish to download.

Active Products - 7

In the table below you will find a list of all CHS products for which you have an active agreement. Check the status column to see if your product has been updated since the last time you accessed your account. If an update is available, click on the **Download** button to retrieve the updated files.

Filter items Showing 1 to 7 of 7 entries | Show **25** entries

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15972	Never downloaded	RM-1203 - Tadoussac à/to Cap Éternité	Download
15632	Never downloaded	RM-1234 - Cap de la Tête au Chien au/to Cap aux Oies	Download
15828	Never downloaded	RM-2067 - Hamilton Harbour	Download
15941	Never downloaded	V-1202 - Cap Éternité à/to Saint Fulgence	Download
15631	Update available	RM-1230 - Plans-Péninsule de la Gaspésie	Download
15629	Update available	RM-CEN06 - Georgian Bay	Download
15977	Up to date	RM-1202 - Cap Éternité à/to Saint Fulgence	Download

NOTE: The downloaded product will appear in the “Downloads” folder of your computer. To acquire software to view your charts, please navigate to [this site](#) and navigate to the entry titled “Where can I find viewing and navigation software?”

Acquiring Charts and Bathymetric Data for Non-Navigational Purposes

This section explains how to acquire charts and bathymetric data for non-navigational purposes. You must obtain a licence to acquire charts and bathymetric data for non-navigational purposes. Obtaining a licence requires adding your desired products to the Shopping Cart via the Licence Application Portal. Afterwards, you will fill out a licence application form before being contacted by a CHS employee to discuss the terms of the agreement. Once you have spoken to a CHS employee, you will provide payment (if required), and then the product will be added to your Active Products and will be available for download.

Non-navigational purposes are defined as using charts and Bathymetric data for purposes unrelated to navigating a vessel. Non-navigational purposes can include scientific research, underwater construction, the use of charts in displays, and more.

NOTE: If you intend to use your chart solely for *navigational* purposes, please refer to the previous section titled "[Acquiring Charts for Navigational Purposes.](#)"

To learn more about licences, go here: <http://charts.gc.ca/copyright-droitdauteur/licensing-licences-eng.html>

To acquire licences for products not shown in the CHS Digital Data Portal, please fill out this form: <http://charts.gc.ca/charts-cartes/ip-application/index-eng.asp>

This section covers:

- [Adding charts to the Shopping Cart](#)
- [Adding bathymetric data to the Shopping Cart](#)
- [Finalizing your purchase](#)
- [Downloading your products](#)

Adding Charts to the Shopping Cart

There are **TWO** methods to add charts to the Shopping Cart through the Licence Application Portal:

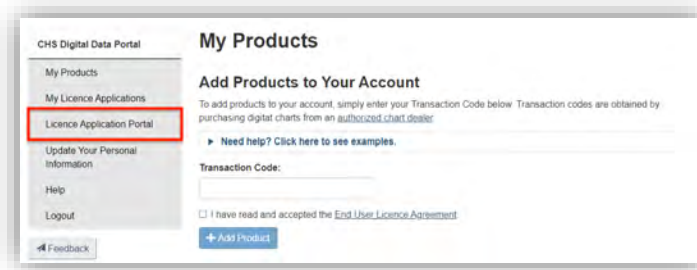
- **“Map View”** displays a map of Canada. Areas that possess charts will be highlighted. You can navigate the map to find the location you would like a chart for.
- **“List View”** displays a list of all available charts. You can search the list to find the location you would like a chart for.

You are free to use either method. This user guide provides instructions for both methods, starting with the Map View.

The process of acquiring charts involves adding your desired charts to your Shopping Cart through the Licence Application Portal. After adding the charts to your Shopping Cart, you will confirm your order for those charts.

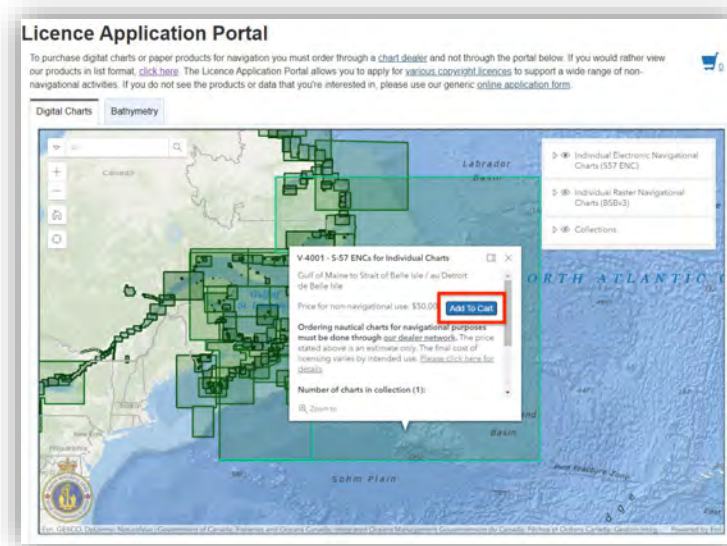
To add charts to the Shopping Cart using the Map View

1. Select the **Licence Application Portal** tab from the menu along the left side of your screen.

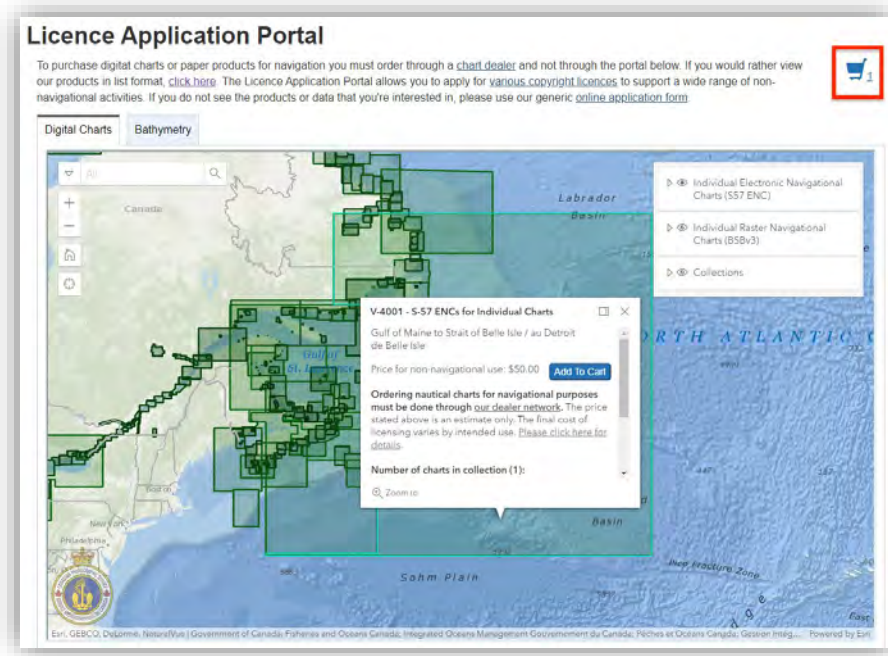


NOTE: Refer to “[How to Use the Map View](#)” in the Reference Information section for help with navigating the Map View.

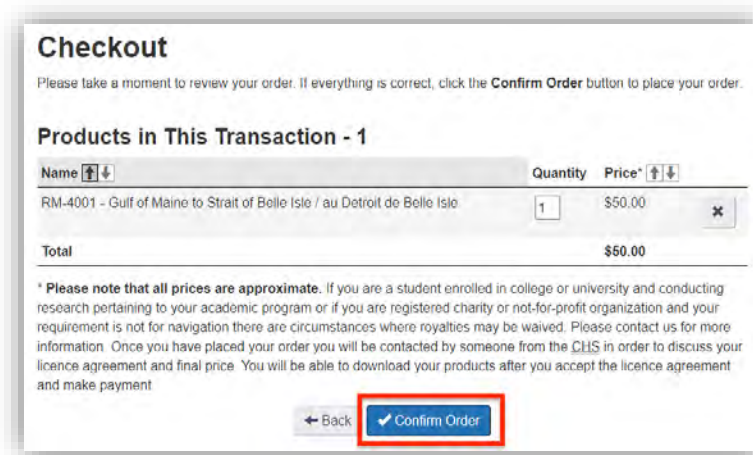
2. Select a chart by clicking on the coloured area covered by the chart.
3. Select the **Add To Cart** button.



- Once you have added all of your desired charts to your cart, select the **Shopping Cart** symbol in the top right of your screen.



- Confirm that the details of your Shopping Cart order are accurate. Select the **Confirm Order** button after you have confirmed that the details of your Shopping Cart are accurate.



TIP: Select the **X button** to remove a product from your cart. Select the **Back** button to make changes to your order.

6. Fill out the **Licence Application** form. Select the **Submit application** button at the bottom of the page after you have filled out the form.

* Date CHS IP required:

mm/dd/yyyy

Availability by date required cannot be guaranteed

Declaration

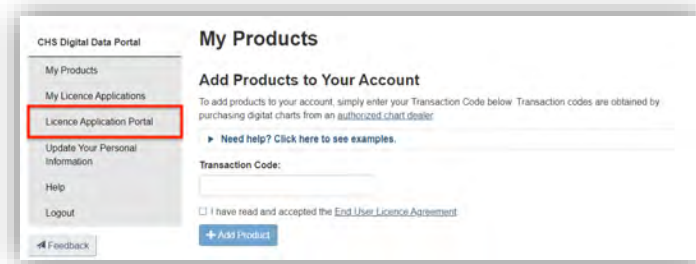
I declare that I have the authority to sign this declaration on behalf of the applicant, and I declare that the information that I have supplied is true and accurate to the best of my knowledge, and that any revisions to the information provided above will be immediately provided in writing to the CHS licensing representative.

* Printed Name

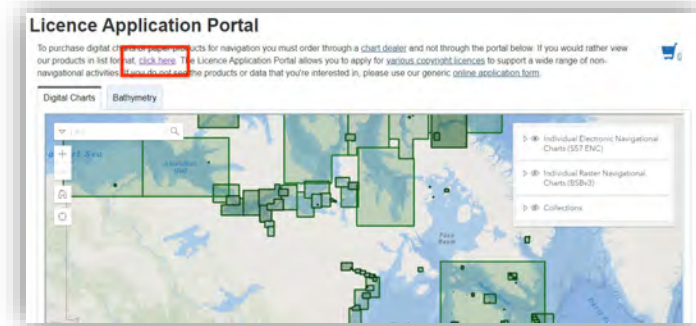
NOTE: Skip to the [“Finalizing Your Purchase”](#) section below to complete the process.

To add charts to the Shopping Cart using the List View

1. Select **Licence Application Portal** from the menu along the left side of your screen.

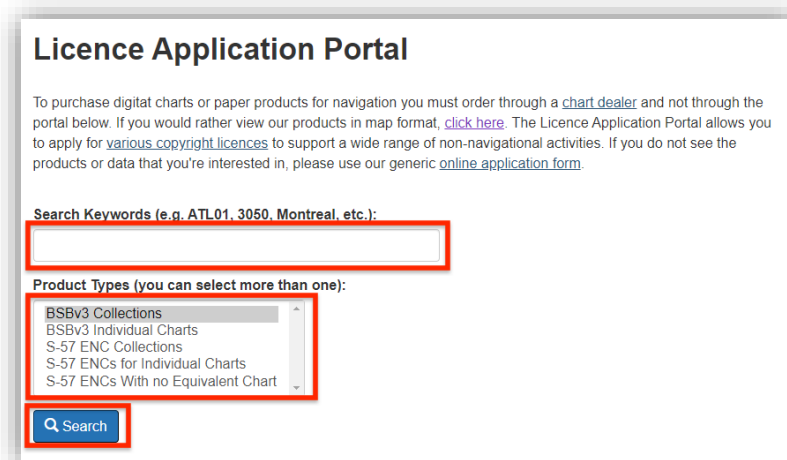


2. Select the highlighted **“click here”** link in the sentence that reads: If you would rather view our products in list format, **“click here”** at the top of your screen.



TIP: To return to the Map View, select the highlighted **“click here”** link in the sentence that reads: If you would rather view our products in map format, **“click here”** at the top of your screen.

3. Search for your desired charts by **entering keywords in the search bar, highlighting your desired chart type, and selecting the “Search” button.**



NOTE: You can select multiple Product Types by holding the “Ctrl” key on your keyboard and selecting your desired Product Types using the left-mouse button.

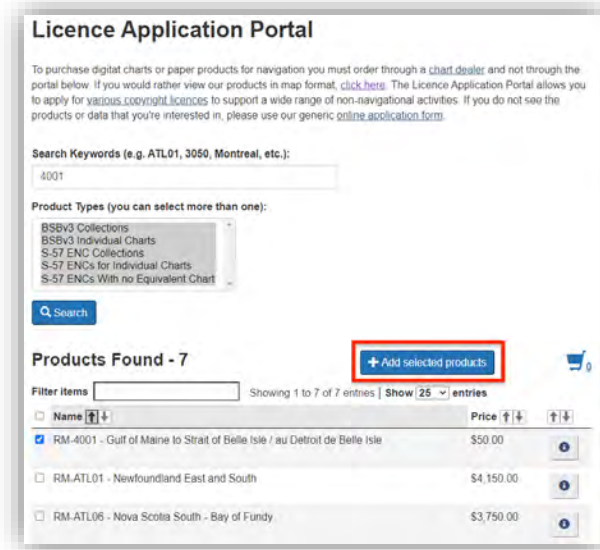
4. Checkmark the **box** next to your desired chart(s).

The screenshot shows the 'Licence Application Portal' interface. At the top, there is a search bar with the text '4001' entered. Below the search bar, a dropdown menu for 'Product Types' is open, listing several options: 'BSBv3 Collections', 'BSBv3 Individual Charts', 'S-57 ENC Collections', 'S-57 ENCs for Individual Charts', and 'S-57 ENCs With no Equivalent Chart'. A blue 'Search' button is located below the dropdown. The main content area displays 'Products Found - 7' and includes a '+ Add selected products' button and a shopping cart icon. Below this, there is a 'Filter items' search bar and a 'Showing 1 to 7 of 7 entries | Show 25 entries' indicator. A table lists the search results with columns for 'Name', 'Price', and an information icon. The first row, 'RM-4001 - Gulf of Maine to Strait of Belle Isle / au Detroit de Belle Isle', has its checkbox selected and is highlighted with a red box. The other two rows, 'RM-ATL01 - Newfoundland East and South' and 'RM-ATL06 - Nova Scotia South - Bay of Fundy', have their checkboxes unselected.

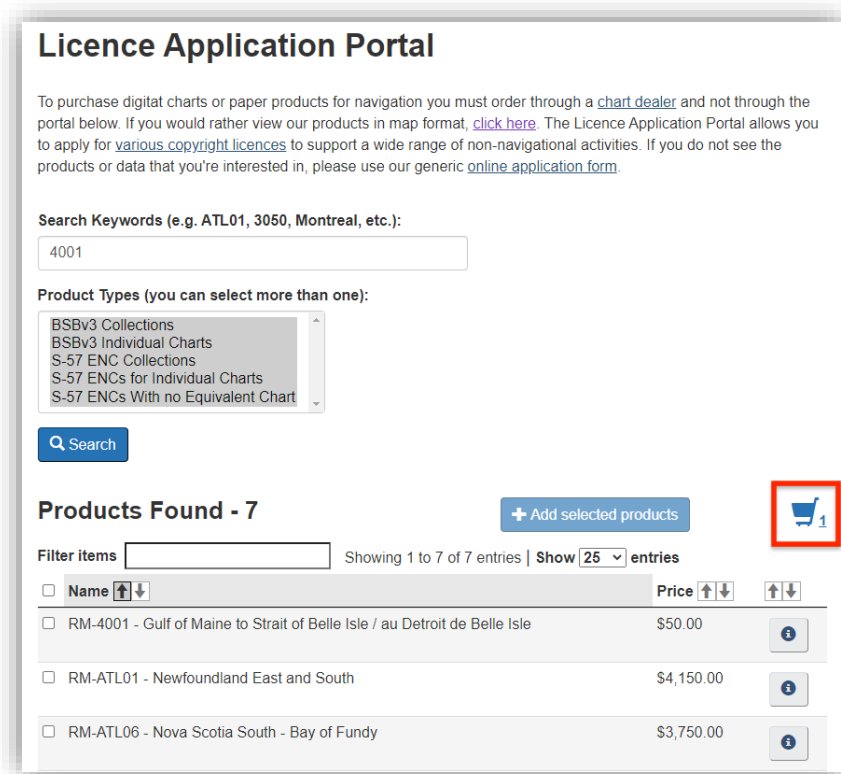
<input type="checkbox"/>	Name	Price	
<input checked="" type="checkbox"/>	RM-4001 - Gulf of Maine to Strait of Belle Isle / au Detroit de Belle Isle	\$50.00	
<input type="checkbox"/>	RM-ATL01 - Newfoundland East and South	\$4,150.00	
<input type="checkbox"/>	RM-ATL06 - Nova Scotia South - Bay of Fundy	\$3,750.00	

TIP: Select the **i** button to learn more information about a chart or chart collection.

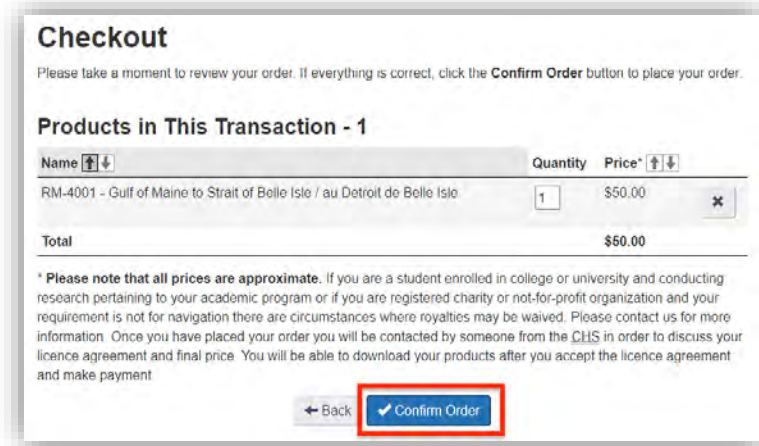
5. Select the **Add selected products** button to add your charts to the Shopping Cart.



6. Select the **Shopping Cart** symbol in the top right of your screen after you have added all of your desired charts to your cart.

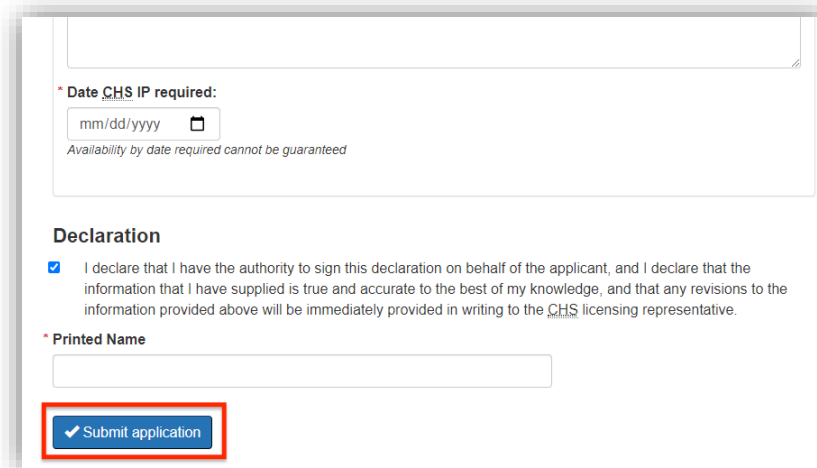


7. Confirm that the details of your Shopping Cart order are accurate. Select the **Confirm Order** button after you have confirmed that the details of your Shopping Cart are accurate.



TIP: Select the **X button** to remove a product from your cart. Select the **Back** button to make changes to your order.

8. Fill out the **Licence Application** form. Select the **Submit application** button at the bottom of the page after you have filled out the form.



NOTE: Skip to the [“Finalizing Your Purchase”](#) section below to complete the process.

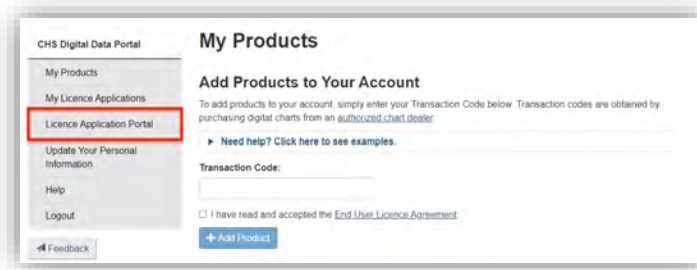
Adding Bathymetric Data to the Shopping Cart

Bathymetric data are statistics that describe the depths of a body of water. Acquiring bathymetric data through the CHS Digital Data Portal follows a similar series of steps as acquiring charts using the Map View.

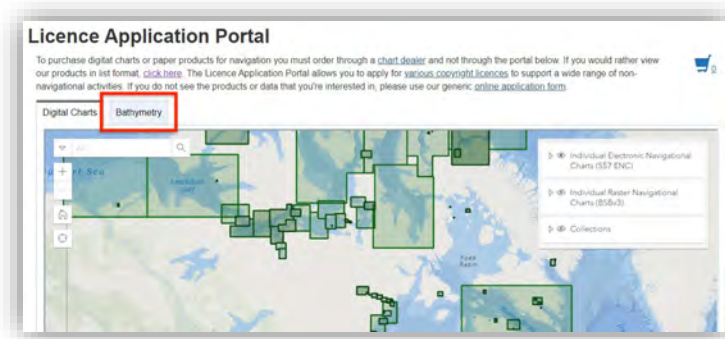
The process of acquiring bathymetric data involves adding your desired data sets to your Shopping Cart through the Licence Application Portal. After adding the data sets to your Shopping Cart, you will confirm your order for those data sets.

Adding bathymetric data to the Shopping Cart

1. Select the **Licence Application Portal** tab from the menu along the left side of your screen.



2. Select the **Bathymetry** tab at the top of the map interface.

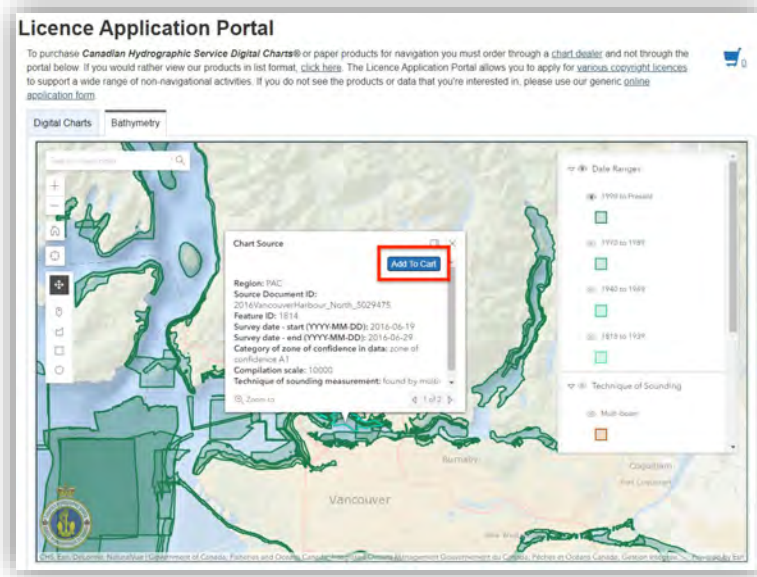


NOTE: Refer to “[How to Use the Bathymetry Data Map](#)” in the Reference Information section for help with navigating the Map View.

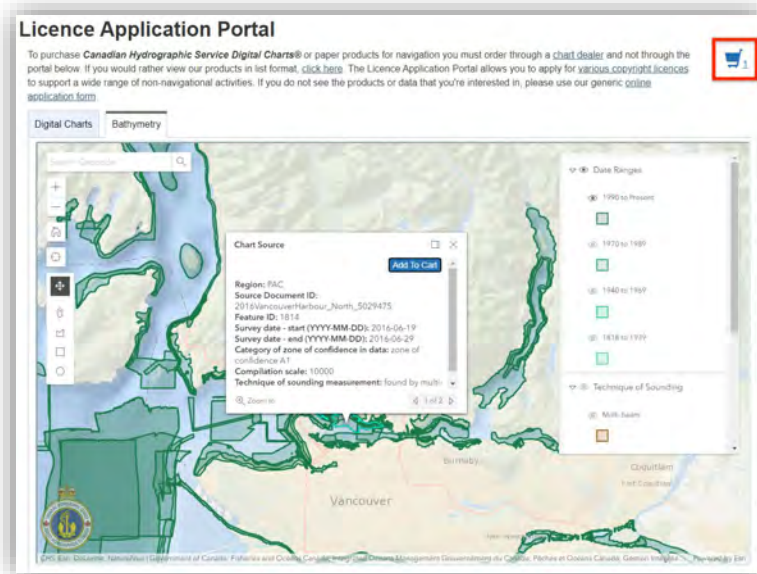
3. Select a set of bathymetric data by clicking on the area covered by the bathymetric data.

NOTE: Bathymetric data ranges might be invisible when zoomed-out. Zoom-in using the + symbol or by scrolling with your mouse wheel to view all available bathymetric data ranges.

4. Select the **Add To Cart** button.



5. Select the **Shopping Cart** symbol in the top right of your screen after you have added all of your desired charts to your cart.



6. Confirm that the details of your Shopping Cart order are accurate. Select the **Confirm Order** button after you have confirmed that the details of your Shopping Cart are accurate.

Checkout

Please take a moment to review your order. If everything is correct, click the **Confirm Order** button to place your order.

Products in This Transaction - 1

Name	Quantity	Price*
Source data - 2016VancouverHarbour_North_5029475		TBD
Total		\$0.00

* **Please note that all prices are approximate.** If you are a student enrolled in college or university and conducting research pertaining to your academic program or if you are registered charity or not-for-profit organization and your requirement is not for navigation there are circumstances where royalties may be waived. Please contact us for more information. Once you have placed your order you will be contacted by someone from the **CHS** in order to discuss your licence agreement and final price. You will be able to download your products after you accept the licence agreement and make payment.

[← Back](#) [✔ Confirm Order](#)

TIP: Select the **X button** to remove a product from your cart. Select the **Back** button to make changes to your order.

7. Fill out the **Licence Application** form. Select the **Submit application** button at the bottom of the page after you have filled out the form.

*** Date CHS IP required:**

mm/dd/yyyy

Availability by date required cannot be guaranteed

Declaration

I declare that I have the authority to sign this declaration on behalf of the applicant, and I declare that the information that I have supplied is true and accurate to the best of my knowledge, and that any revisions to the information provided above will be immediately provided in writing to the **CHS** licensing representative.

*** Printed Name**

[✔ Submit application](#)

Finalizing Your Purchase

Regardless of whether you are using charts for non-navigational purposes or bathymetric data, the final step in the process will be the same.

After submitting your Licence Application form, you will be contacted by a CHS employee within five business days. The CHS employee will reach you by phone or email to discuss the terms of the licence agreement and, if required, the final price. After speaking with the CHS employee and paying for your purchase (if required), the CHS will add your products to your Active Products, making the products available for download.

To finalize your purchase

1. Within five business days after submitting your Licence Agreement, you will be contacted by a CHS employee to **discuss the terms of the licence agreement**.

NOTE: The CHS employee will contact you using the phone number or email address you provided in the licence application form.

2. After the CHS employee has determined the specifics of your licence request, the CHS employee will finalize the agreement price and duration of your licence.
3. If required, **provide payment** for the licence over the phone with the CHS employee.
4. After providing payment, please **log onto the CHS Digital Data Portal** with your GCKey account.
5. **Notify the CHS employee** over email that you have successfully logged into the CHS Digital Data Portal. Please provide the name and email address used to create the account.

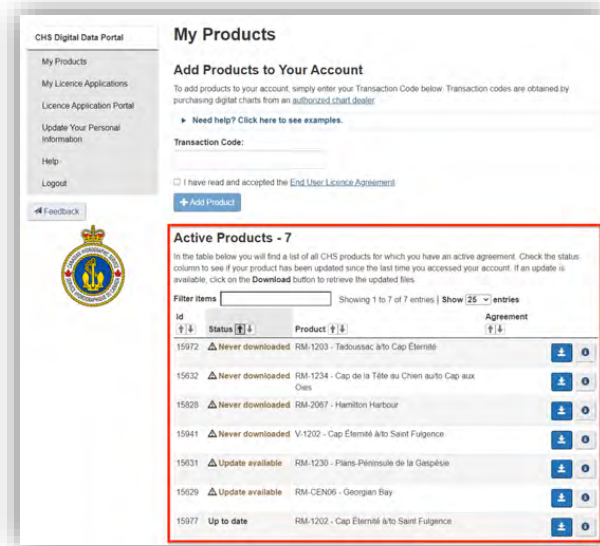
NOTE: The CHS employee will add your purchased products to the Active Products section of the “My Products” page after you confirm your successful login to the CHS Digital Data Portal.

Downloading Your Products

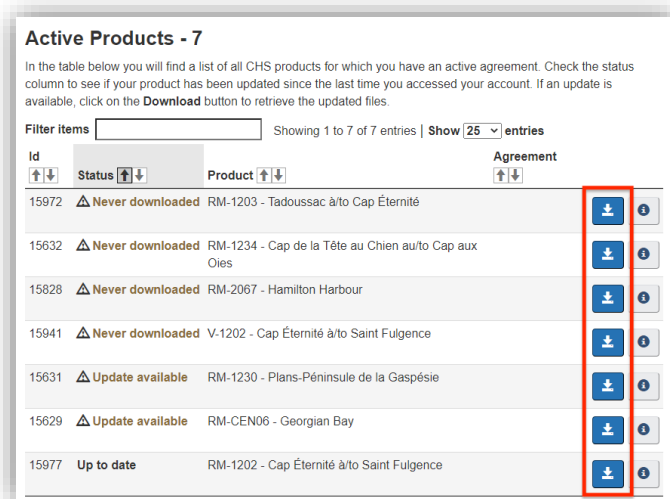
After finalizing your purchase with the help of a CHS employee, you will be able to download your licenced products from the Active Products section of the “My Products” page.

To download your products

1. Navigate to the Active Products section of the “My Products” page.



2. Select the **Download** button next to the product you wish to download.



NOTE: The downloaded product will appear in the “Downloads” folder of your computer. To acquire software to view your charts, please navigate to [this site](#) and navigate to the entry titled “Where can I find viewing and navigation software?”

Reference Information

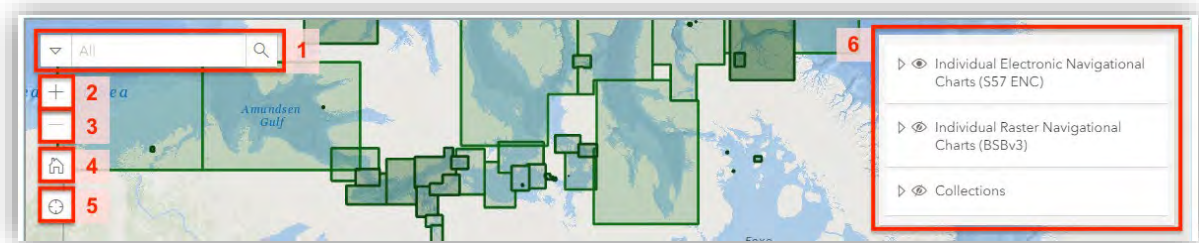
How to Use the Map View

This section will teach you how to control the [Map View within the Licence Application Portal](#).

Mouse Controls:

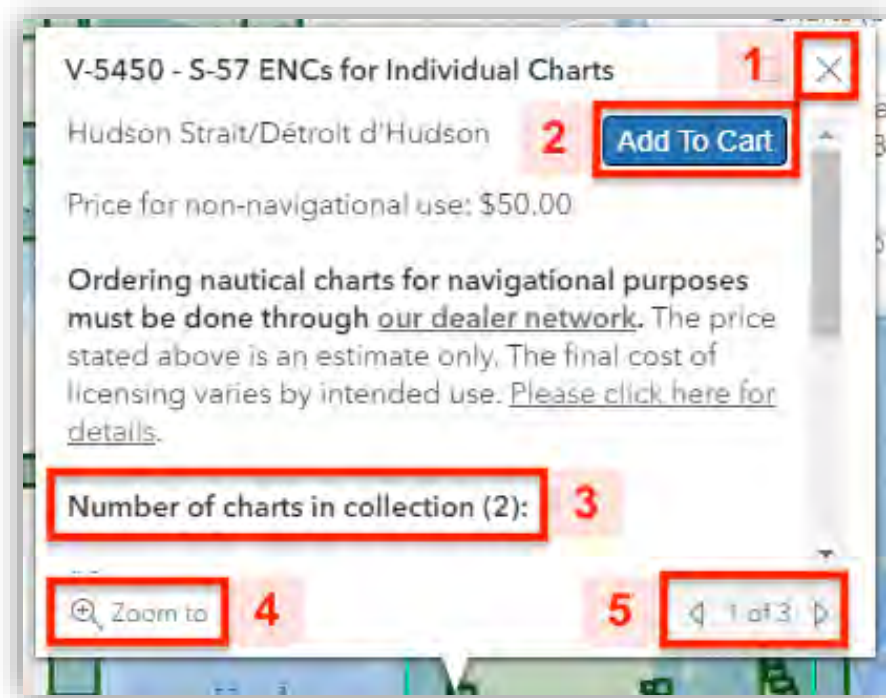
- **Left-Click Mouse Drag:** Clicking and dragging with the left-click mouse button will reposition the map depending on the direction that you move the mouse.
- **Left-click select:** Clicking with the left-mouse button on any area of the map selects all charts that intersect with the dot on the map.

Map View Buttons:



1. **Search Bar:** Searches available charts by keywords
2. **“Default-View” Button:** Returns view to default.
3. **“Plus Sign (+)” Button:** Zooms-in on the location at the centre of the map. Click this button to see finer details.
4. **“Minus Sign (-)” Button:** Zooms-out the map. Click this button to see more of the map.
5. **“Find My Location” Button:** Centres view on your current location (Location Services must be active).
6. **Dropdown Menus:** Select and deselect the “eye symbols” to show and hide specific types of charts:
 - Individual Electronic Navigational Charts (S57 ENC): show coverage of all ENC charts
 - Individual Raster Navigational Charts (BSBv3): show coverage of all BSB charts
 - Collections: show coverage of all chart collections

Pop-Up Window Buttons:



1. **"X" Button:** Deselects chart.
2. **"Add to Cart" Button:** Adds product to your cart.
3. **Number of charts in collection (#):** Shows how many charts are included as part of the product.
4. **"Zoom To" Button:** Zooms-in on the selected chart, allowing you to see the chart's full coverage area.
5. **"Left – Right" Arrows:** Cycles through other charts that are "below" the initially selected charts. Charts may overlap with other charts, meaning that selecting one area of the map will select all charts that intersect with your selection.

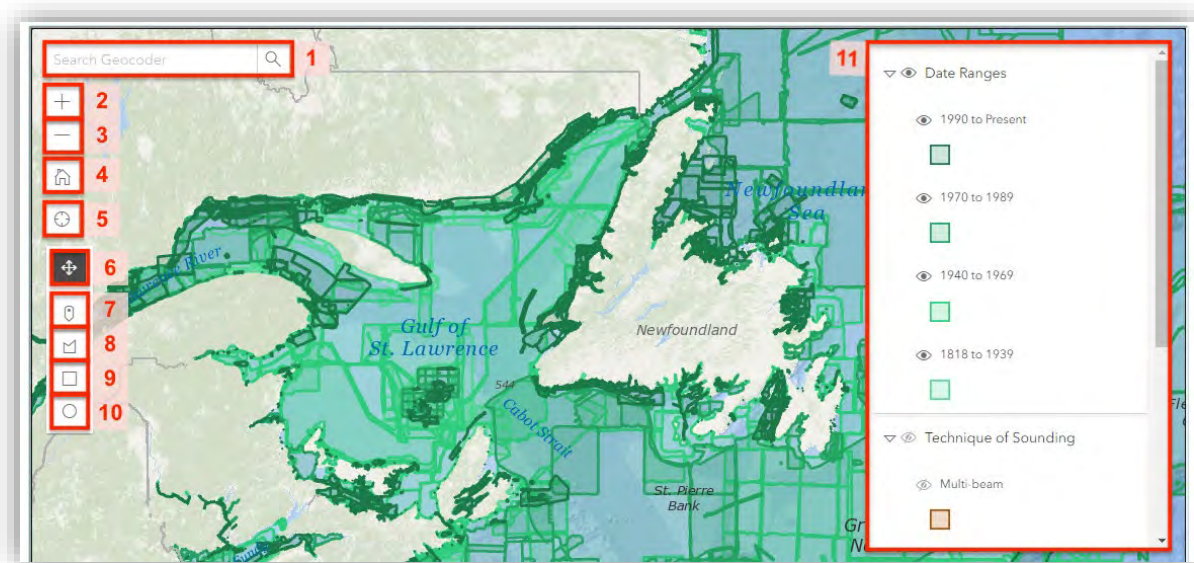
How to Use the Bathymetry Map

This section will teach you how to control the [Bathymetry Map View within the Licence Application Portal](#).

Mouse Controls:

- **Left-Click Mouse Drag:** Clicking and dragging with the left-click mouse button will reposition the map depending on the direction that you move the mouse.
- **Left-click select:** Clicking with the left-mouse button on any area of the map selects all charts that intersect with the dot on the map.

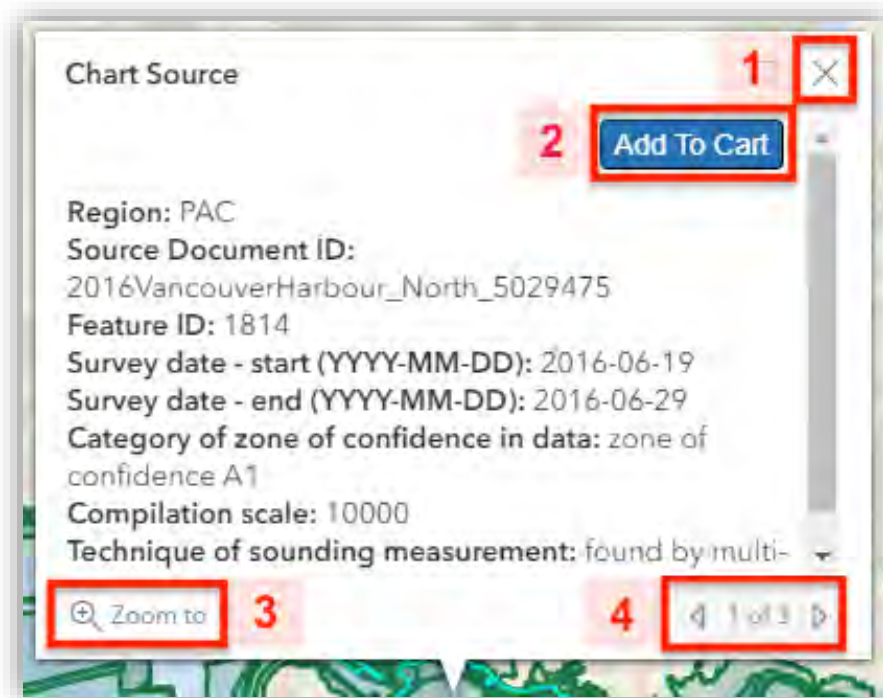
Bathymetry Map View Buttons:



1. **Search Bar:** Searches available charts by keywords
2. **“Default-View” Button:** Returns view to default.
3. **“Plus Sign (+)” Button:** Zooms-in on the location at the centre of the map. Click this button to see finer details.
4. **“Minus Sign (-)” Button:** Zooms-out the map. Click this button to see more of the map.
5. **“Find My Location” Button:** Centres view on your current location (Location Services must be active).
6. **“Select by Point” Button:** Selects all data sets that intersect with the dot on the map.
7. **“Draw a Point” Button:** Selects all data sets that intersect with the location you have clicked.
8. **“Draw a Polygon” Button:** Allows you to draw a polygonal shape on the map. Selects all data sets that intersect with the polygon.
9. **“Draw a Rectangle” Button:** Allows you to draw a rectangle on the map. Selects all data sets that intersect with the rectangle.

10. **“Draw a Circle” Button:** Allows you to draw a circle on the map. Selects all data sets that intersect with the circle.
11. **Dropdown Menus:** Select and deselect the “eye symbols” to show and hide specific types of charts:
 - Date Ranges: shows data sets created within the specified date range.
 - Technique of Sounding: shows data sets according to the sounding technique used to collect the data.

Pop-Up Window Buttons:



1. **“X” Button:** Deselects data set.
2. **“Add to Cart” Button:** Adds product to your cart.
3. **“Zoom To” Button:** Zooms-in on the selected data set region, allowing you to see the coverage area of the data set.
4. **“Left – Right” Arrows:** Cycles through other data sets that are “below” the initially selected data set. Data sets may overlap, meaning that selecting one area of the map will select all data sets that intersect your selection.

Explanation of Raster Charts (RNCs) and Vector Charts (ENCs)

Canadian Hydrographic Service Digital Charts are available in two formats:

- Raster Navigational Chart (RNC): a scanned image of the paper chart that provides no more information than that available on the paper chart. These charts are in the “BSB” file format.
- Electronic Navigational Chart (ENC): a vector image of the paper chart that is coded with additional information *not* available in paper or raster charts. ENCs incorporate a database of geo-spatial information that you can interact with. These charts are in the “S57ENC” file format.

Both kinds of digital charts, when used with navigation software, relieve the navigator of many of the traditional paper chart routines, and contribute to safe navigation.

For more information about the difference between a RNC and an ENC, click this link:

<http://charts.gc.ca/charts-cartes/digital-electronique/raster-enc-eng.html>