GEOPORTAL PHILIPPINES: NAVIGATIONAL WARNING MAP APP

System Analysis

System Design

Application Development

System Implementation

System Maintenance

SYSTEM USER MANUAL

Geospatial System Development Division
Geospatial Information System Management Branch

CONTENTS

1   BACKGROUND

The Geoportal Philippines: Navigational Warning (NW) Map App will provide the general public specifically the mariners with an immediate or urgent navigational warning to ensure safety in maritime navigation.

2   HARDWARE/SOFTWARE REQUIREMENTS

Minimum hardware requirements:
- Operating System: Windows 7 / Windows 8 / Windows 10
- Processor: Intel® Core™ 2 Duo or AMD Athlon™ 64 X2 5600+
- Video: NVIDIA® GeForce® 7600 GT or ATI™ Radeon™ HD 2600 XT or Intel® HD Graphics 3000 or better
- Memory: 2 GB RAM
- Internet: Broadband Internet Connection
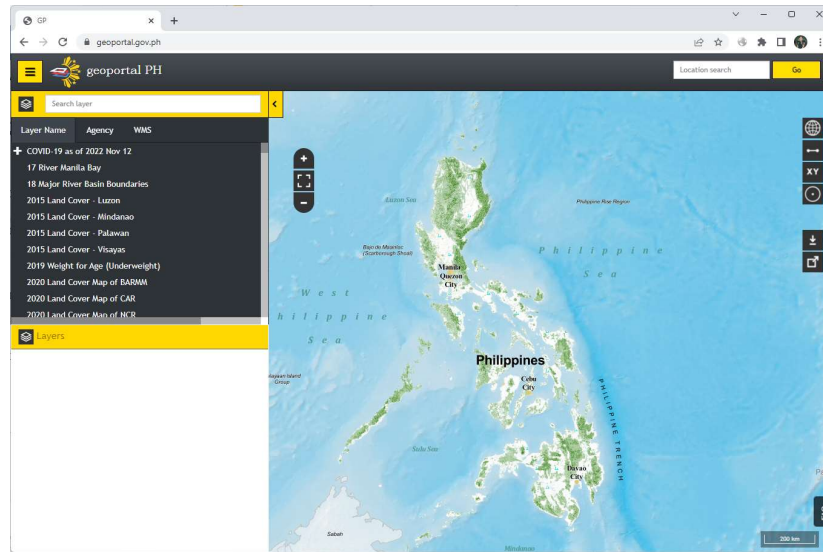- Resolution: 1024X768 minimum display resolution

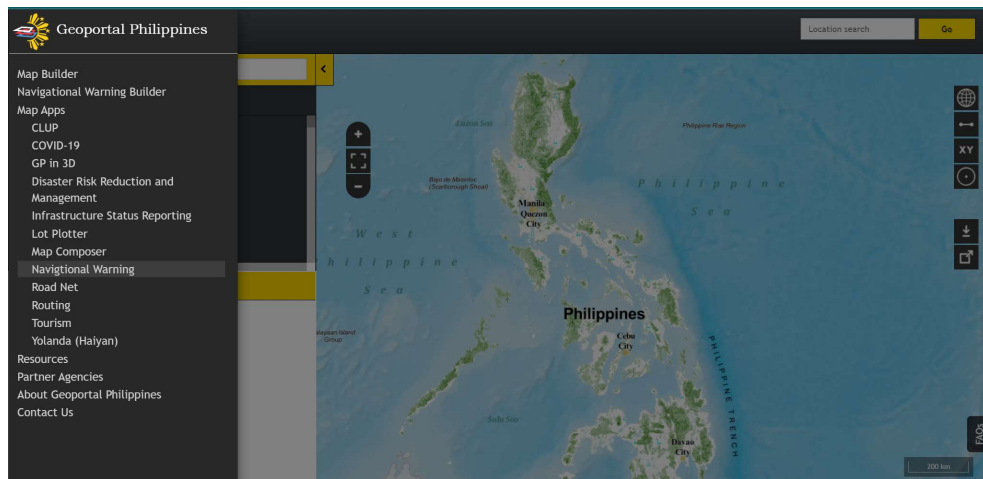# 3   NAVIGATIONAL WARNING MAP APP

3.1   HOW TO LAUNCH THE MAP APP

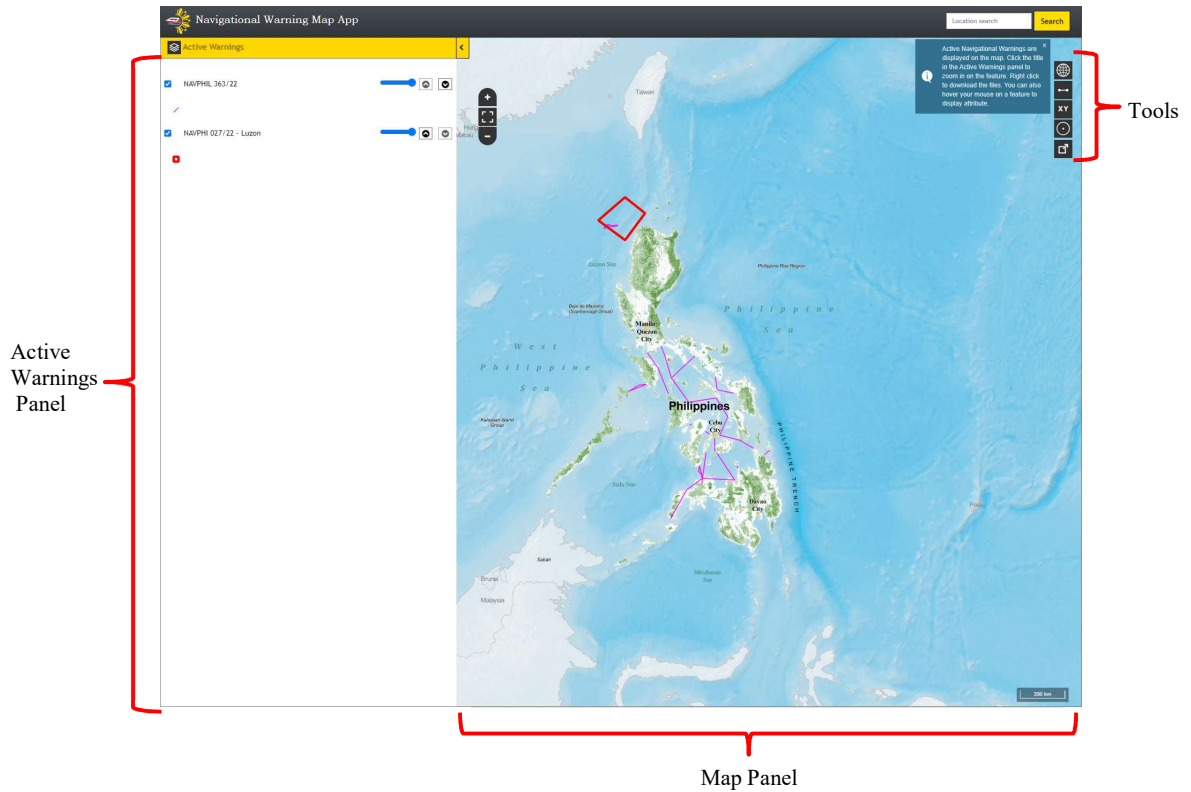3.1.1   Open a web browser and go to **https://www.geoportal.gov.ph**.

3.1.2 The **Geoportal Philippines** page will be displayed.

3.1.3 Click the **Menu** ▤ → **Map Apps** → **Navigational Warning**.

3.1.4 The **Navigational Warning Map App** page will be displayed. All the active navigational warnings will be displayed on the map.

Active Warnings Panel

Tools

Map Panel

Available Warnings Panel

- Displays the active navigational warnings

Map Panel

- Displays the basemap and layer overlays.

Tools

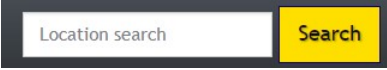|		
		Zoom in This is used for zooming in to the map.
		Zoom out This is used for zooming out of the map.
		Zoom to Extent This is used to zoom the map to the whole extent of the Philippines.
		Switch Basemap This provides different basemap options to use. Currently available are NAMRIA Basemaps, NAMRIA Ortho Image 2011 and 2013-2014 (for selected areas only), NAMRIA Ortho Rectified Radar Image, Bing Maps, ArcGIS Online, Open Street Map, and Google Map
		Measure tool This allows the user to measure distance or area on the map.
		Goto XY tool This allows the user to go to a particular location on the map by encoding coordinates.
		Buffer tool This allows the user to create a buffer from a point, line, circle, or polygon.
		Location search This allows the user to go to a certain location on the map.
		Export Map This allows exporting of the current map view along with basemap and loaded layers in PNG format.

3.2 HOW TO ZOOM IN ON A NAVIGATIONAL WARNING

3.2.1 In the **Active Warnigs Panel**, click a navigational warning.
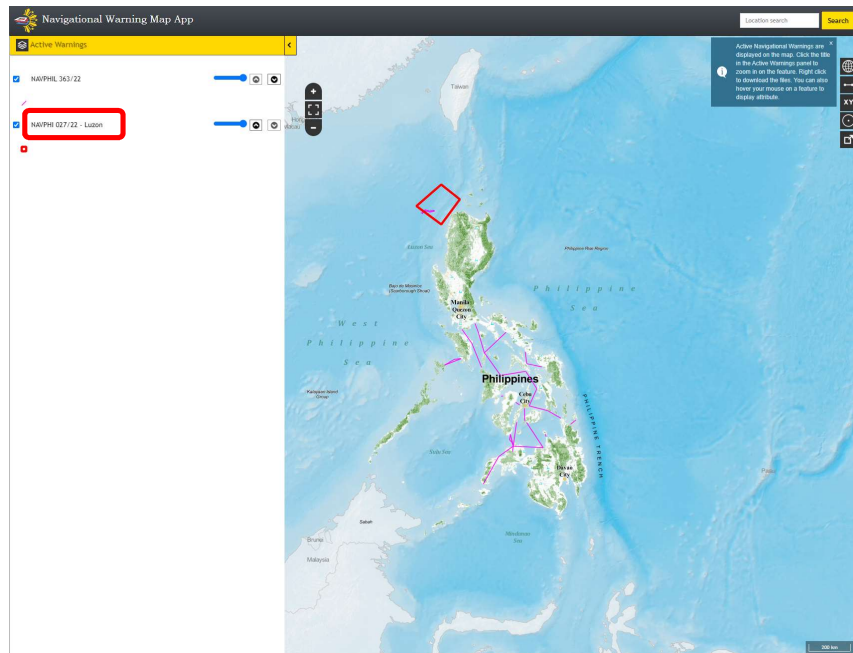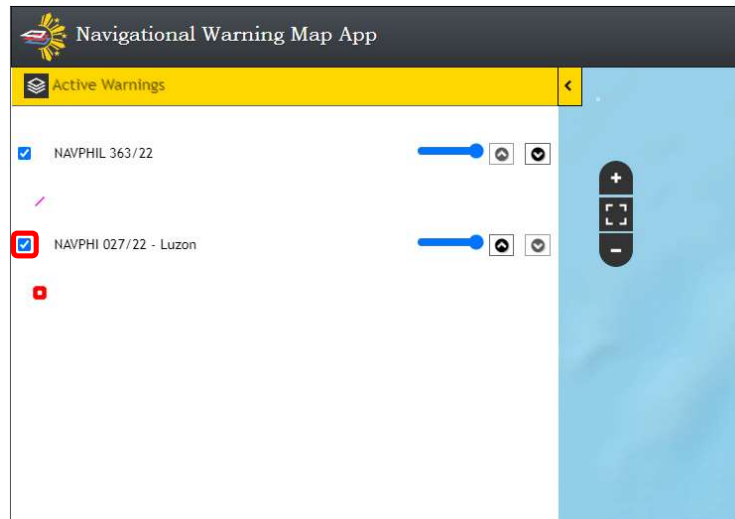

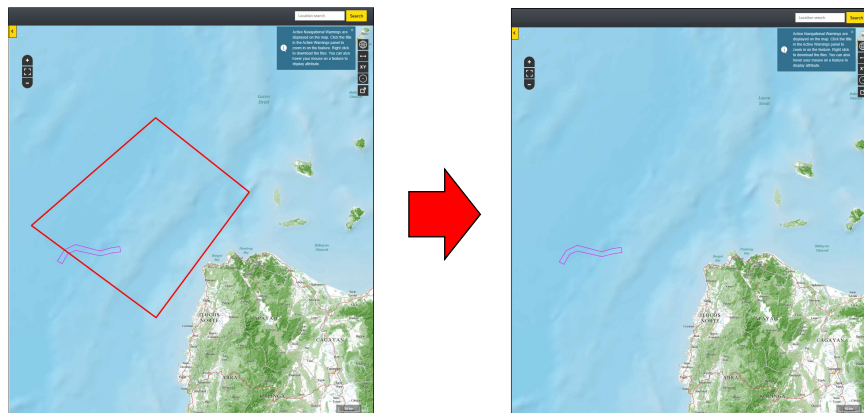3.2.2 The map display will show the navigational warning's extent.
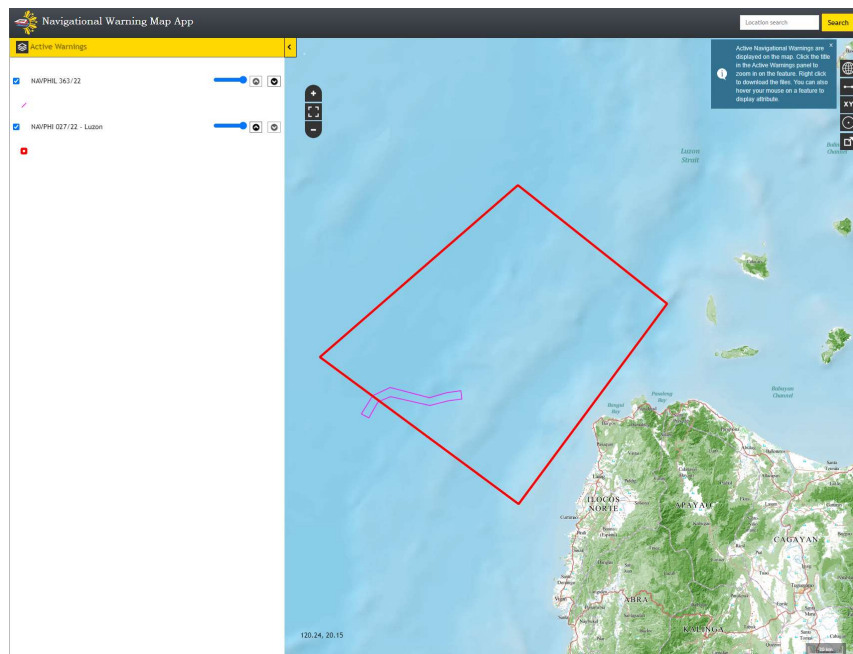
3.3 HOW TO SHOW/HIDE A NAVIGATIONAL WARNING

3.3.1 In the **Active Warnigs Panel**, tick/untick the checkbox beside a Navigational Warning.
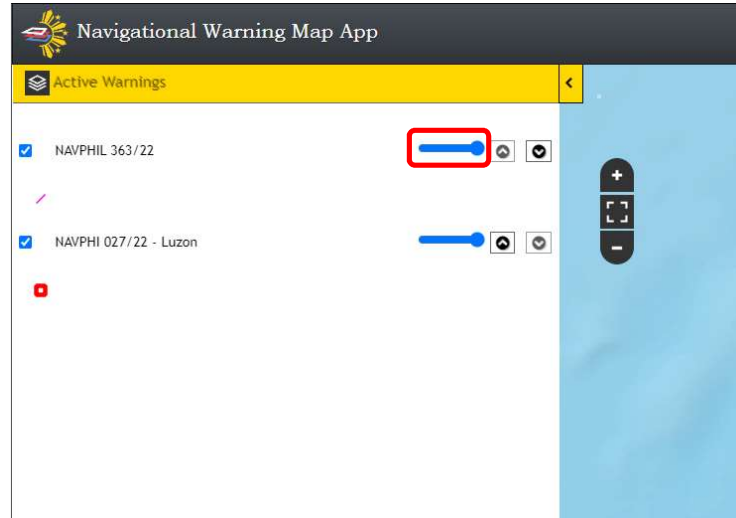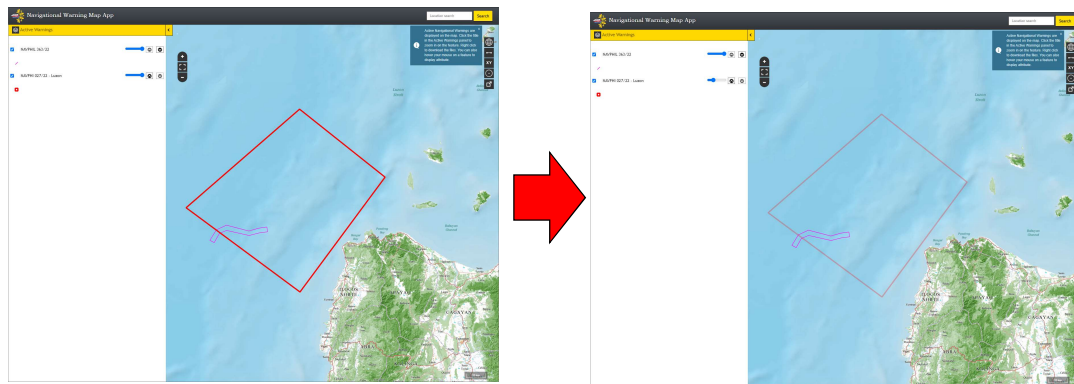

3.3.2 Show/hide a Navigational Warning.

3.4   HOW TO ADJUST NAVIGATIONAL WARNING OPACITY

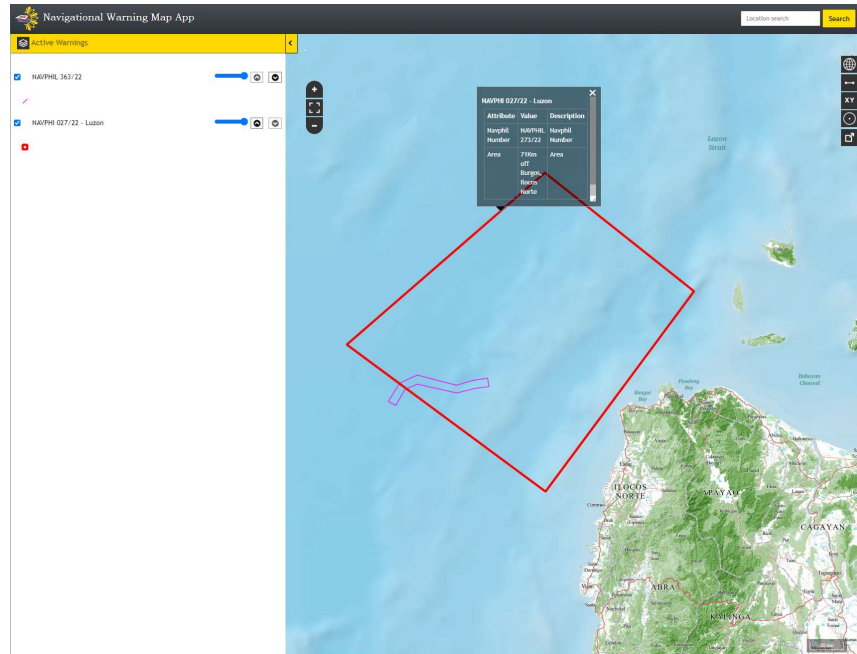3.4.1   In the **Active Warnigs Panel**, move the slider from right to left.

3.4.2   The opacity of the Navigational Warning will be adjusted.

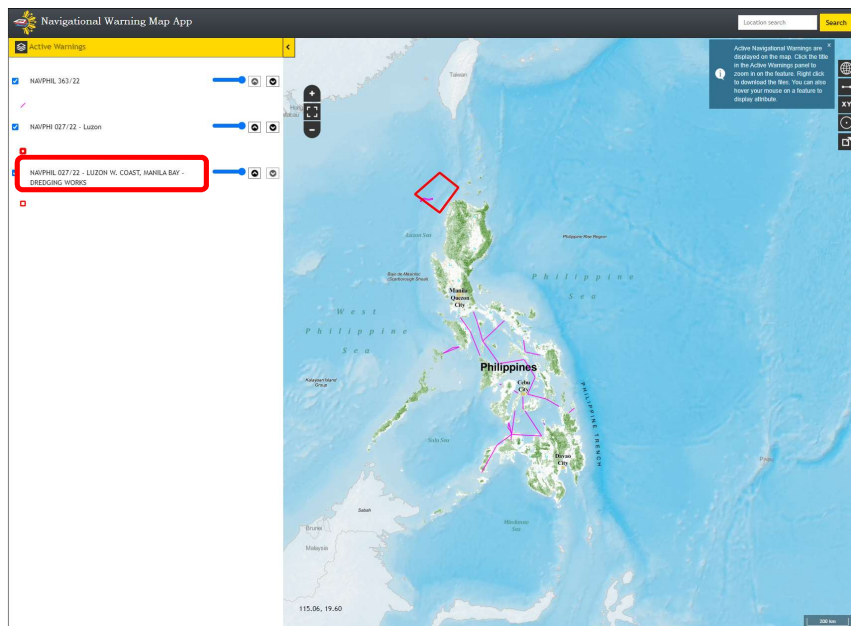## 3.5 HOW TO IDENTIFY A FEATURE

3.5.1   In the **Map Panel**, hover on a feature. The attributes of the feature will be displayed.
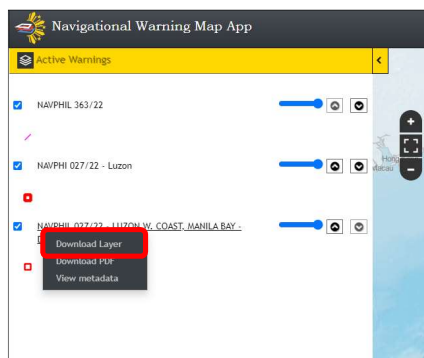

3.5.1   Click the button of the popup window to close.

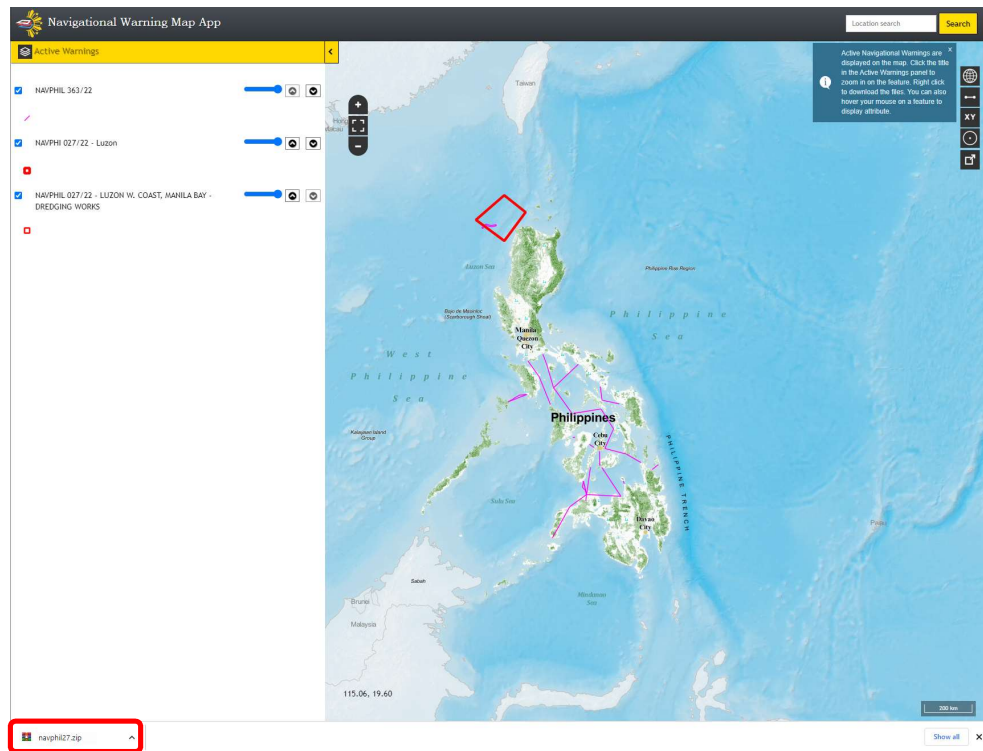## 3.6 HOW TO DOWNLOAD NW SHAPEFILES

3.6.1 In the **Active Warnings Panel**, right click a Navigational Warning.

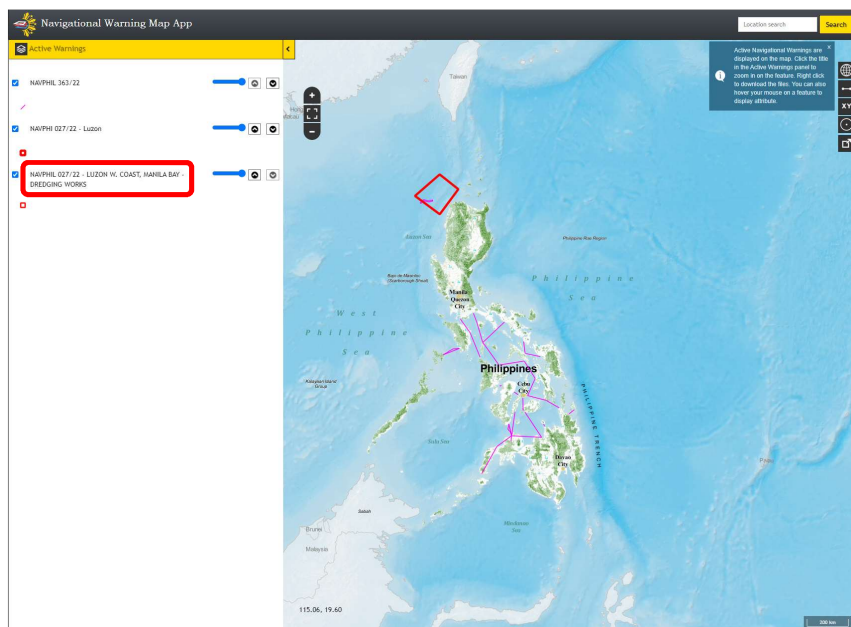3.6.2 A context menu will appear. Click **Download Layer.**

3.6.3 The Navigational Warning layer will be downloaded in compressed shapefile format (.zip).
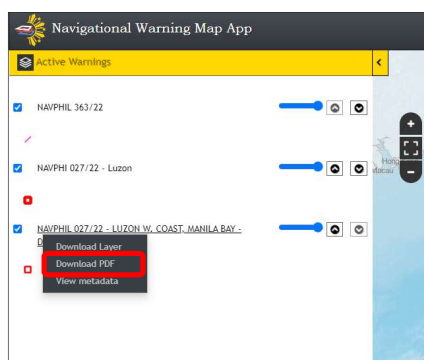
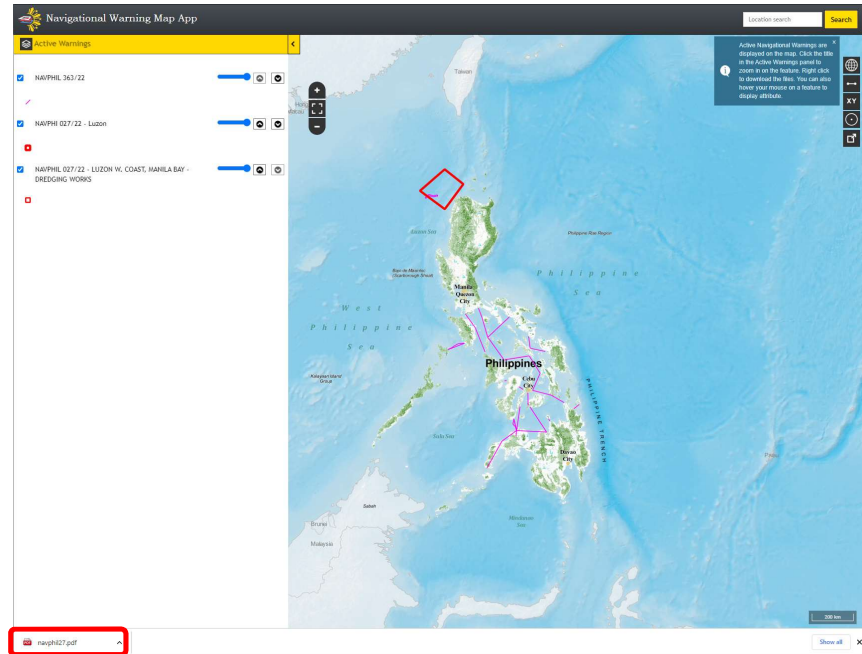## 3.7 HOW TO DOWNLOAD NAVIGATIONAL WARNING PDF FILE

3.7.1 In the **Active Warnings Panel**, right click a Navigational Warning.

3.7.2 A context menu will appear. Click **Download PDF.**
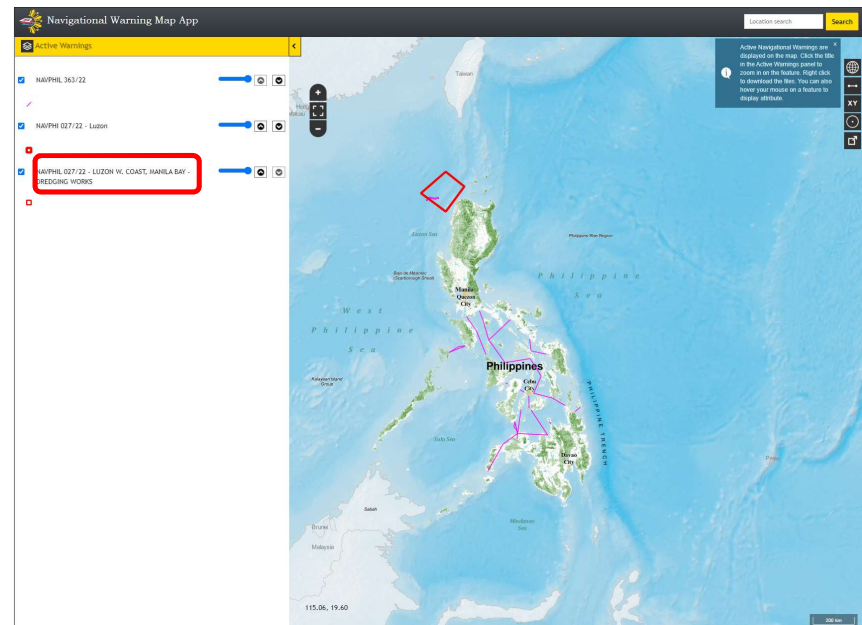
3.7.3   The Navigational Warning will be downloaded in pdf format.
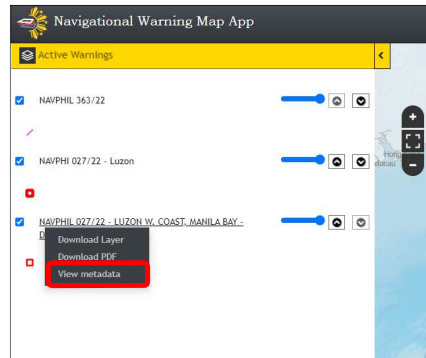

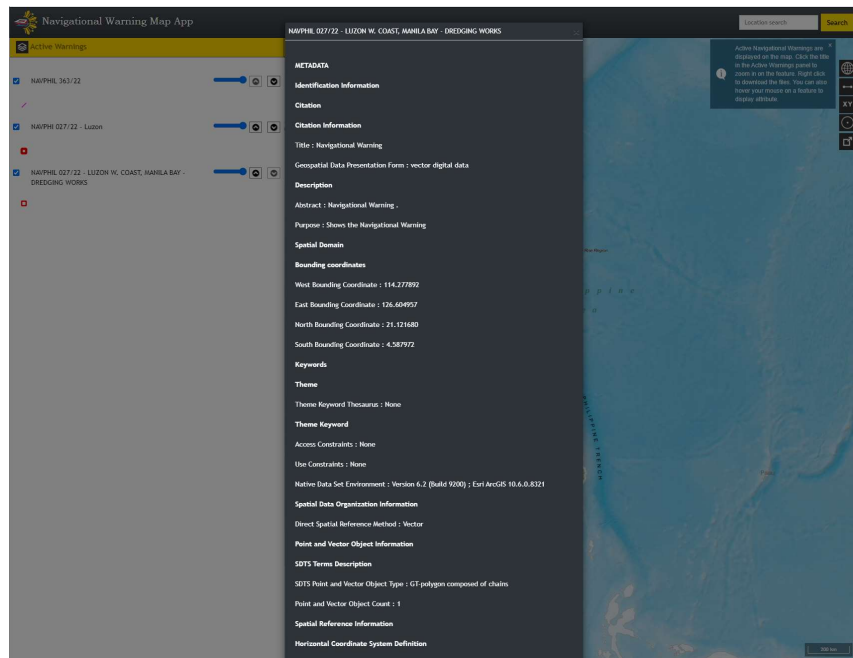## 3.8   HOW TO VIEW NW METADATA

3.8.1   In the **Active Warnings Panel**, right click a Navigational Warning.

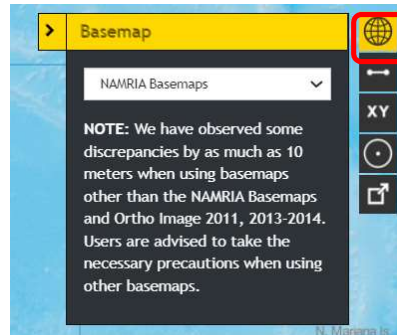3.8.2   A context menu will appear. Click **View metadata.**

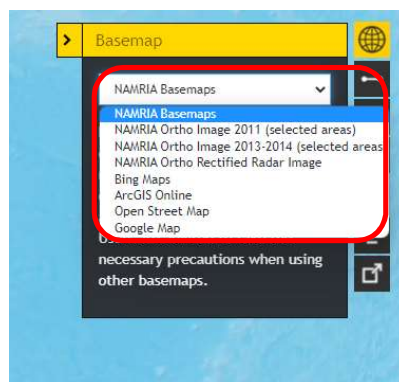3.8.3   The metadata of the Navigational Warning will be displayed.
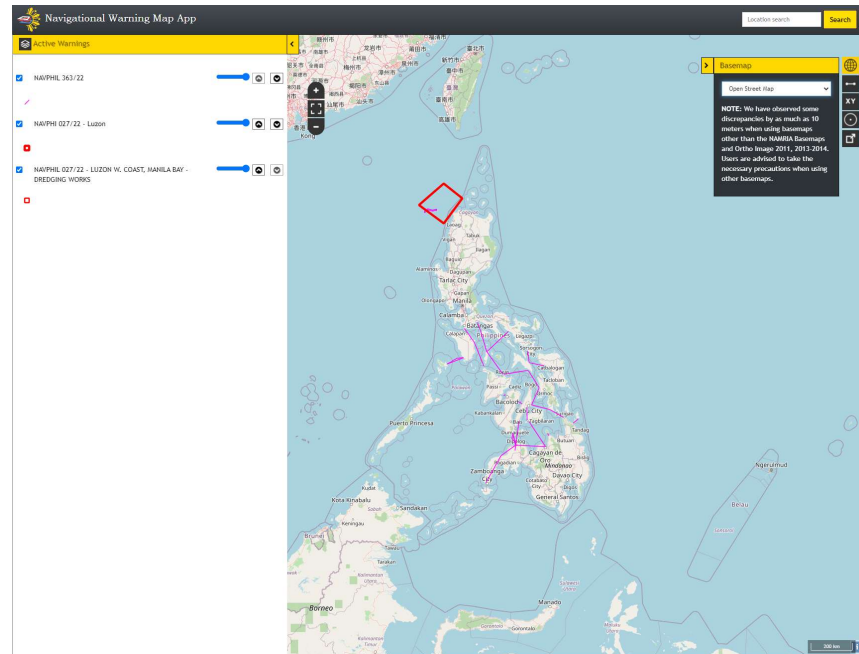
3.9   HOW TO SWITCH BASEMAP

3.9.1   Click the **Switch Basemap** button and the **Basemap** dialog window will be displayed.

3.9.2   Click the **Basemap** dropdown list and select the desired basemap.
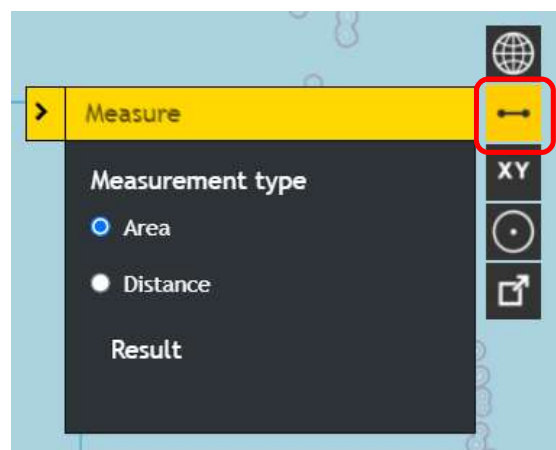
3.9.3   The **Map Panel** will display the selected basemap.
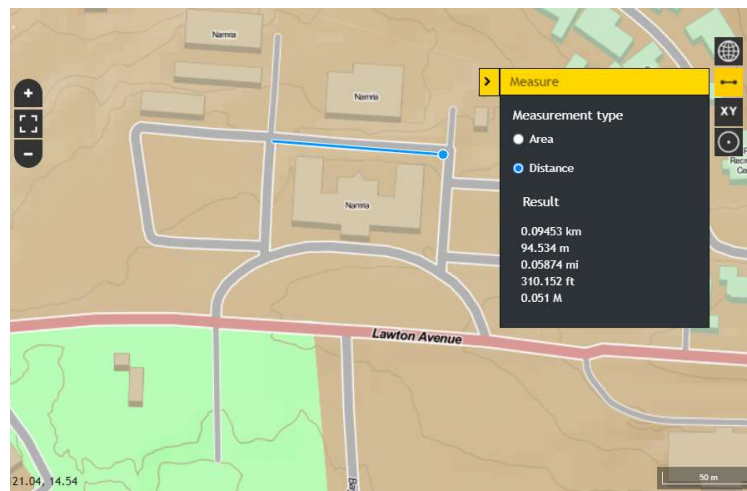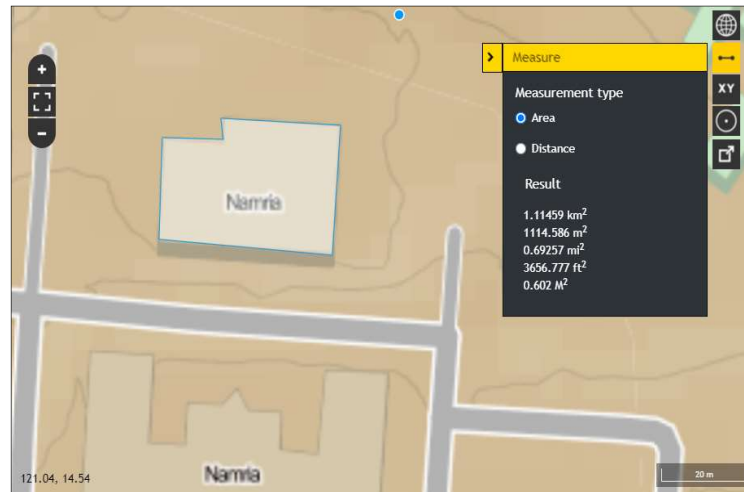

3.9.4   Click the ▶ button to close the **Basemap** dialog window.

3.10 HOW TO USE MEASURE

3.10.1 Click the **Measure** ⟼ button and the **Measure** dialog window will be displayed.

3.10.2 Measure an **Area** by clicking on a starting point, trace or draw polygon by clicking on the corners of the shape you want to measure, and double-clicking to end. For **Distance**, click on a starting point and double click on the ending point. The result will be displayed in different units of measure.
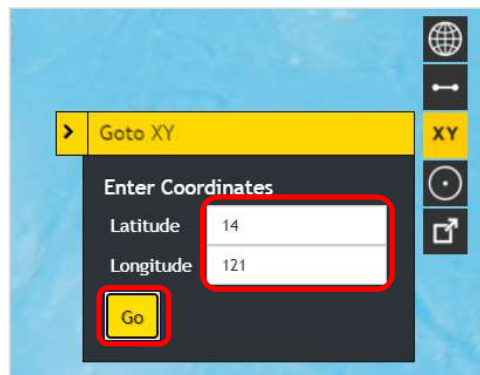

3.10.3 Click the ▶ button to close the **Measure** dialog window.
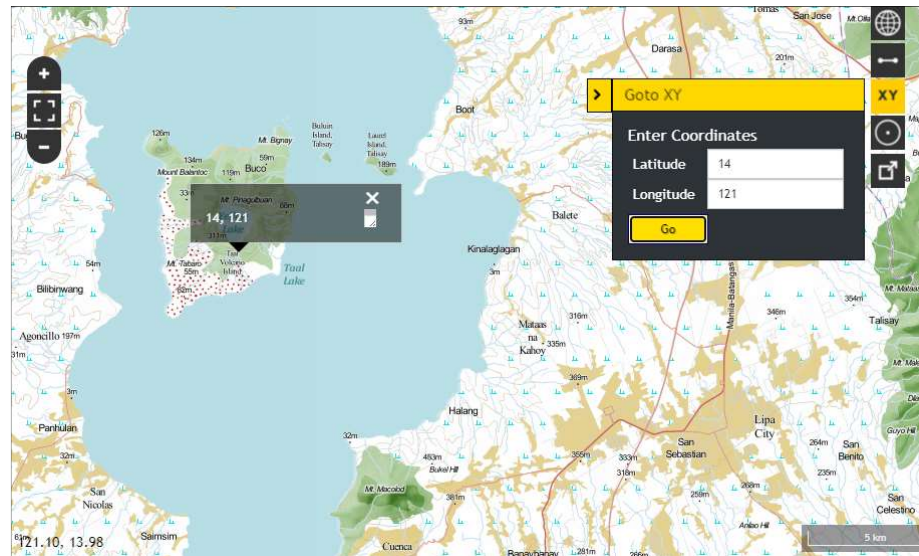
3.11 HOW TO USE GOTO XY

3.11.1 Click the **Goto XY** [XY] button and the **Goto XY** dialog window will be displayed.
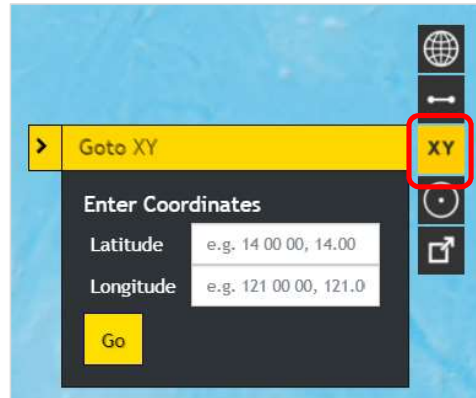
3.11.2 Encode the **Latitude** and **Longitude** of a location and then click the **Go** button.
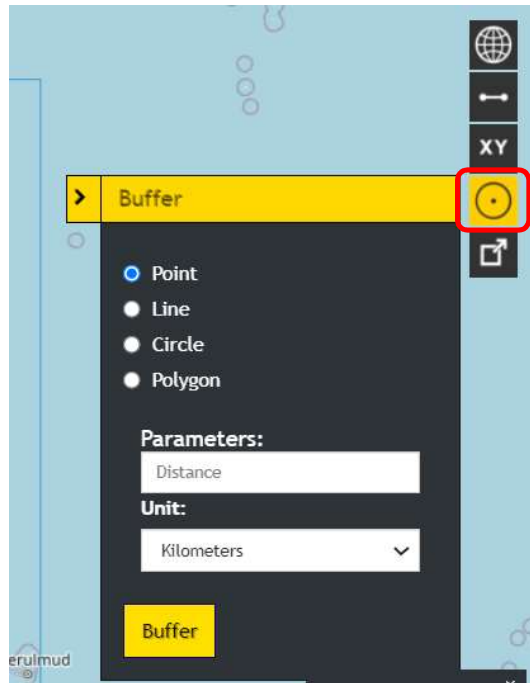
3.11.3 The map will zoom in to the location and will display a popup showing the Longitude and Latitude.

3.11.4 Click the ⟩ button to close the **Goto XY** dialog window.

3.12 HOW TO USE BUFFER

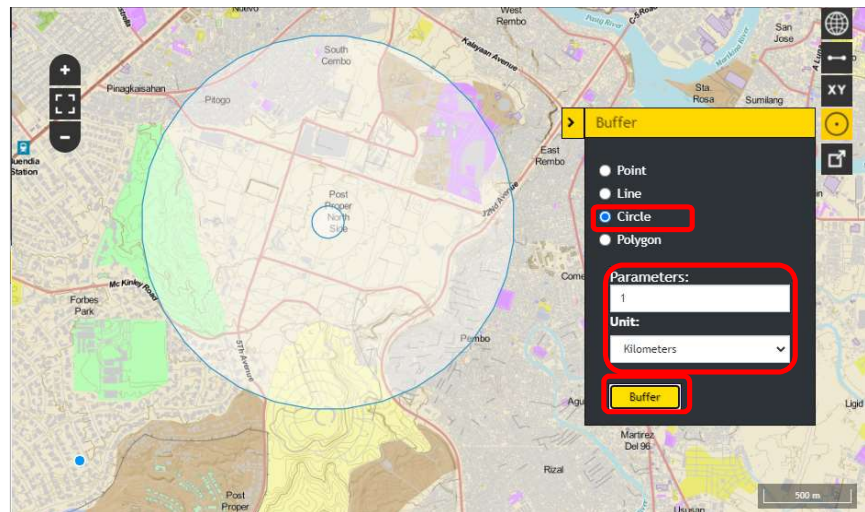3.12.1 Click the **Buffer** ⊙ button and the Buffer dialog window will be displayed.

3.12.2 To create a buffer around a point, select the **Point** option. Click a point on the map. Encode the desired buffer parameters (distance and unit). Click the **Buffer** button. A zone around the point measured in the specified distance will be created.
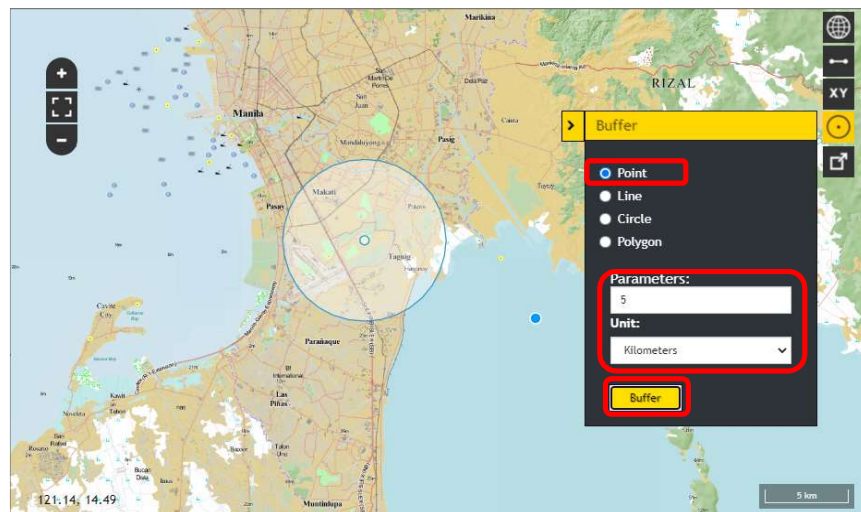
3.12.3 To create a buffer around a line, select the **Line** option. Click a starting point and double click on the ending point to create a line on the map. Encode the desired buffer parameters (distance and unit). Click the **Buffer** button. A zone around the line measured in the specified distance will be created.
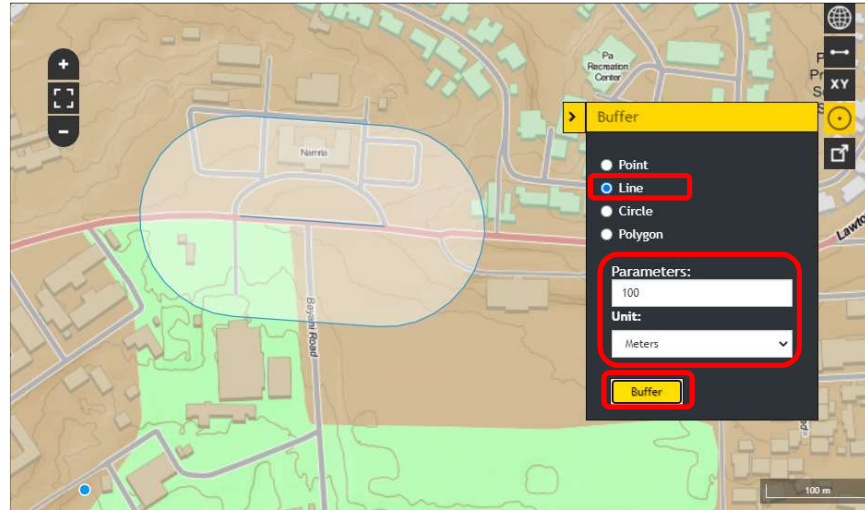
3.12.4 To create a buffer around a circle, select the **Circle** option. Click a point as the center of the circle and drag outward until the desired size of the circle is reached. Encode the desired buffer parameters (distance and unit). Click the **Buffer** button. A zone around the circle measured in the specified distance will be created.

3.12.5 To create a buffer around a polygon, select the **Polygon** option. Trace or draw polygon by clicking on the corners of the shape you want to measure. Encode the desired buffer parameters (distance and unit). Click the **Buffer** button. A zone around the polygon measured in the specified distance will be created.
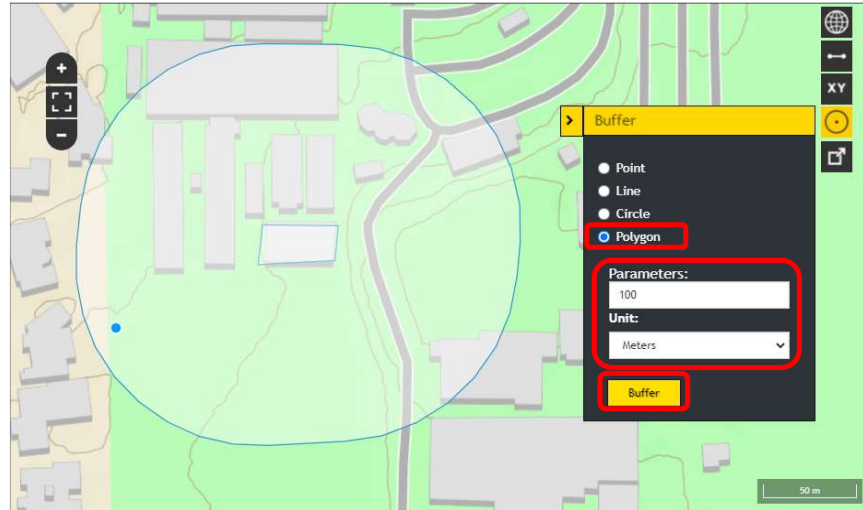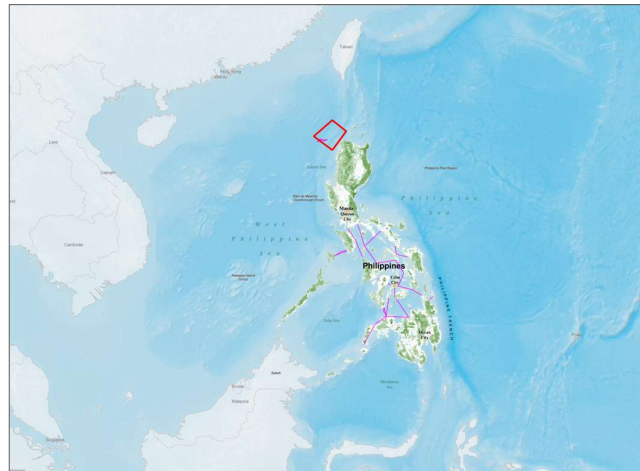

3.12.6 Click the ▶ button to close the **Buffer** dialog window.

3.13 HOW TO EXPORT MAP

3.13.1 Click the **Export Map** button. The current map view will be downloaded in PNG format.
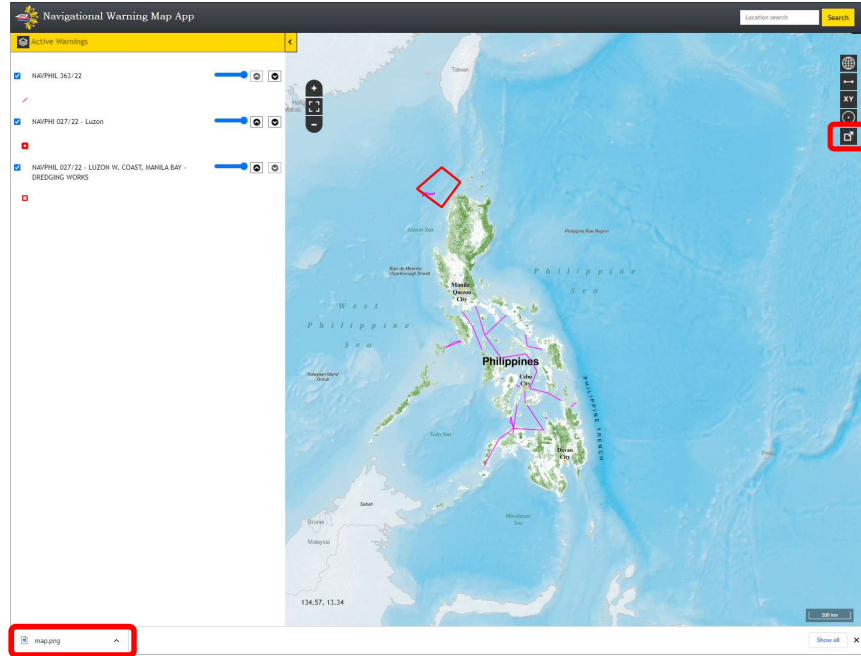
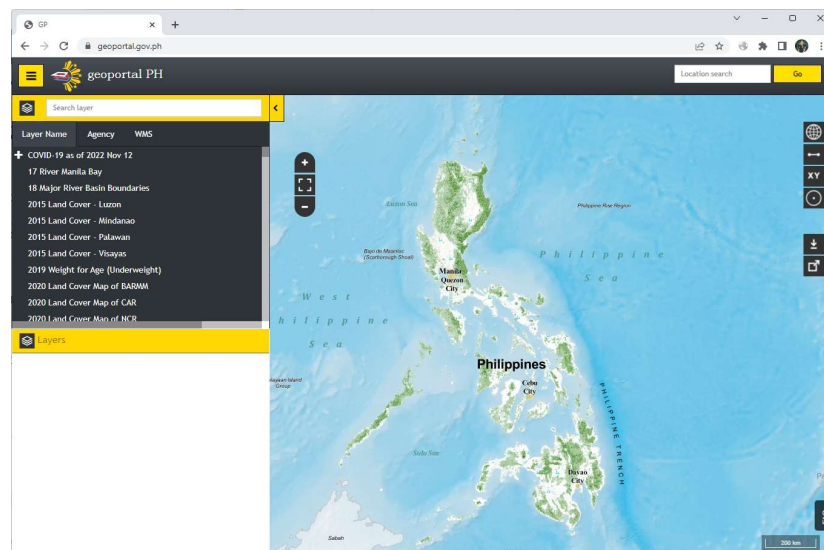The current map view along with basemap will be exported in PNG format.

# 4 NAVIGATIONAL WARNING MAP BUILDER
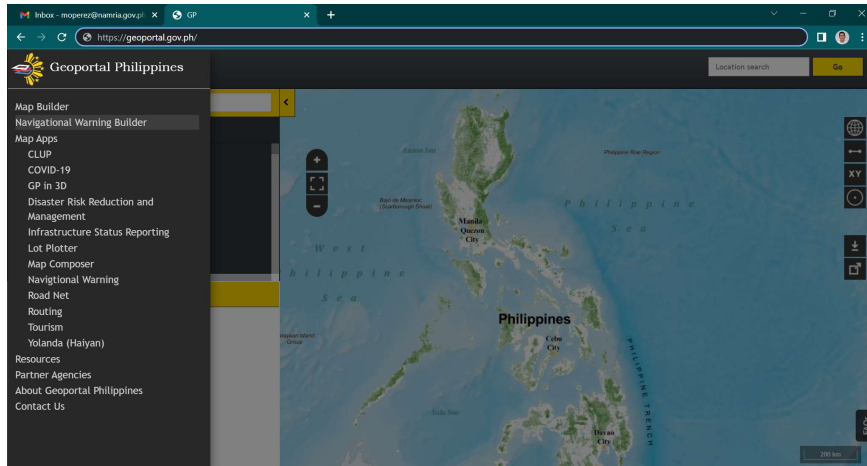
4.1 HOW TO LAUNCH THE MAP BUILDER

4.1.1   Open a web browser and go to **https://www.geoportal.gov.ph**.
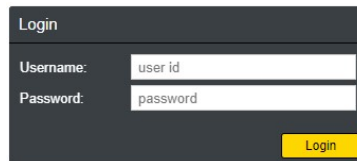

4.1.2   The Geoportal Philippines page will be displayed.

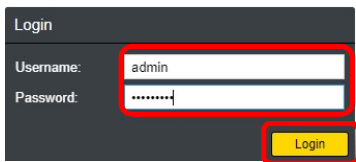4.1.3   Click the Menu [≡]→ Map Apps → Navigational Warning Map Builder.

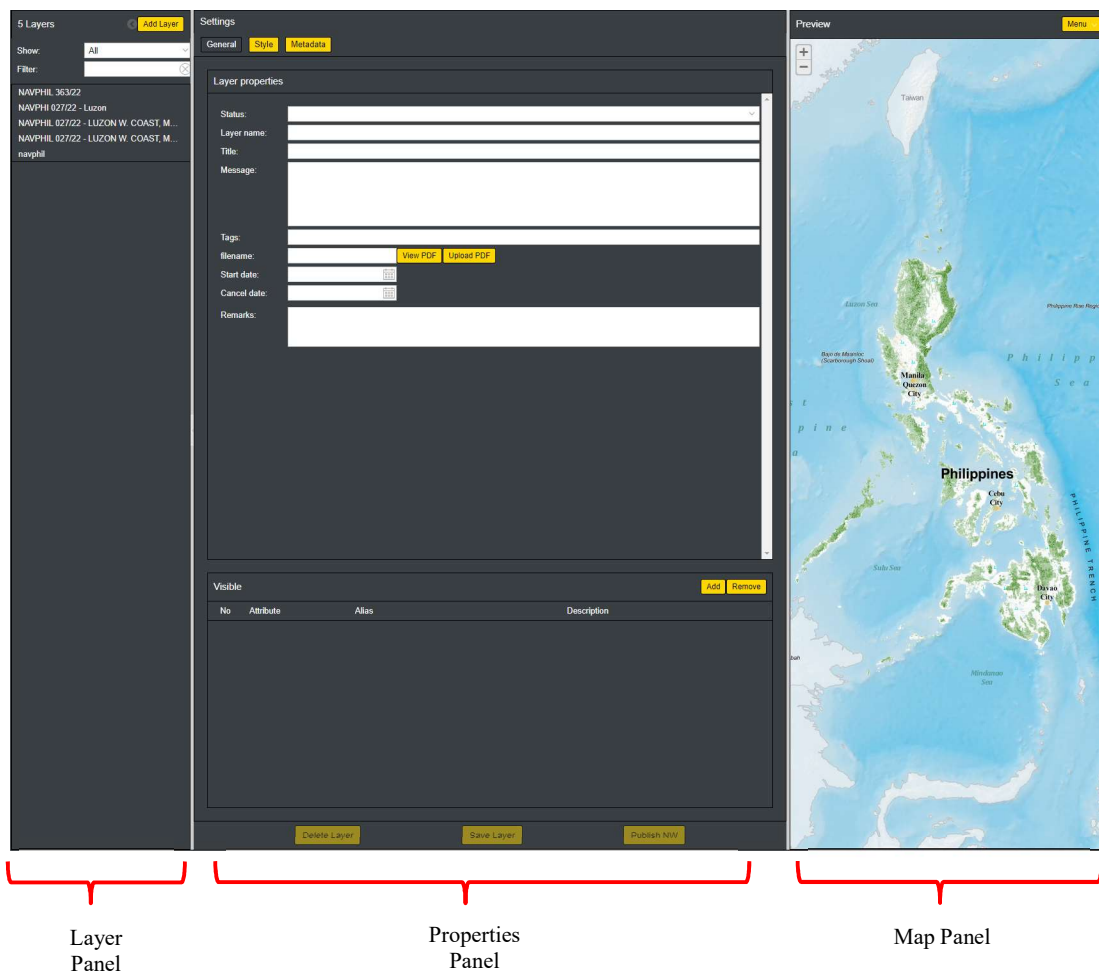4.1.4   The **Login** screen will be displayed.

4.2   LOGGING IN

4.2.1   To login, type your username and password and click the **Login** button.

If the credentials entered is valid, the **Navigational Warning Map Builder** page will be displayed, otherwise, displays an "*Invalid Username/Password""* message.

Layer Panel   Properties Panel   Map Panel

Layer Panel

- Displays the list of all uploaded navigational warnings

Properties Panel

- Displays the properties of a Navigational Warning Layer

General tab

Status	Status of a Navigational Warning Layer (for Approval, For Publishing, Active, and Cancelled).
Layer name	Unique identifier
Title	Title that will be displayed in the Navigational Warning Map App
Message	This will be the content of the email and will also be attached as a textfile (.txt)
Tags	Keywords to be used to search for a Navigational Warning layer.
Filename	Filename of the PDF file
Start date	Effectivity date of the Navigational Warning Layer
Cancel date	The date when the Navigational Warning Layer will be cancelled
Remarks	Comments for the Navigational Warning Layer.
Visible attributes	Attributes that will be displayed when the user hovers on a feature.

Style tab – this contains the style that will determine the look of the Navigational Warning on the map. Pre-defined styles are already available. The user can also perform inline editing of values.
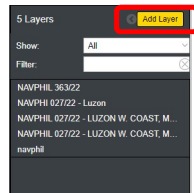
Metadata tab – contains information about the Navigational Warning Layer. The user can also perform inline editing of values.
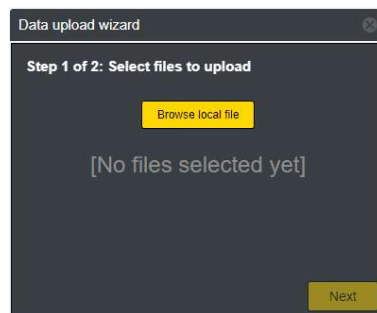
Map Panel

- Displays the basemap and layer overlays.

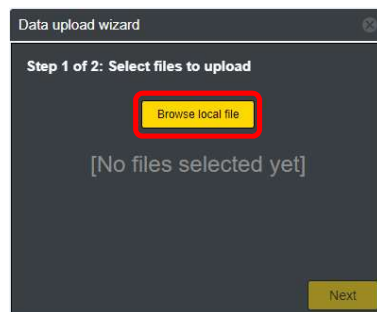## 4.3 HOW TO ADD A NAVIGATIONAL WARNING LAYER

4.3.1   Click the **Add Layer** button in the upper left corner of the **Layer Panel.**
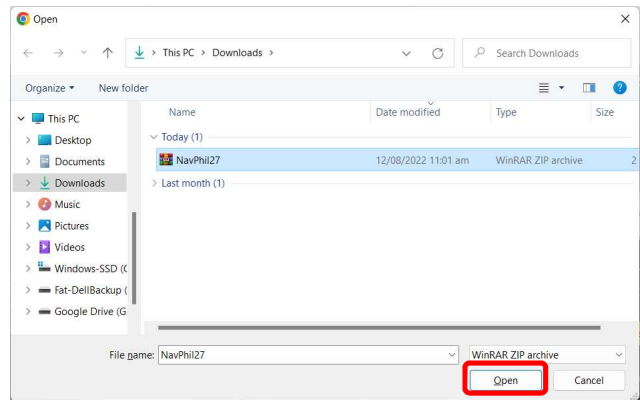

4.3.2   The **Data upload wizard** dialog will be displayed.
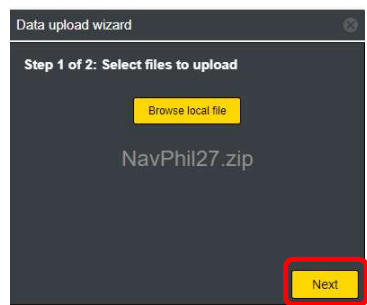

4.3.3   Click the **Browse local file** button.

4.3.4 The **Open** dialog window will be displayed. Select the shapefile (compressed shapefile format with .zip extension) to be uploaded and then click the **Open** button.


4.3.5 The filename will be displayed in the **Data upload wizard** dialog window. Click the **Next** button.

4.3.6 The **Data upload wizard: Describe the data** page will be displayed.
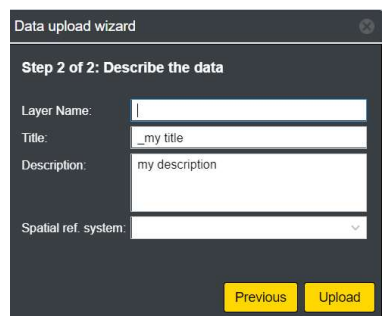
4.3.7 Encode the layer name, title, description, and select the spatial reference system of the file. Click the **Upload** button. The file will be uploaded and the Navigational Warning layer will be added to the list.
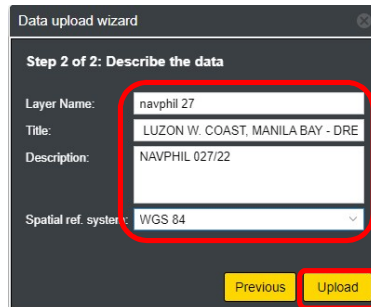
4.3.8 The **Data upload wizard: Select PDF file** page will be displayed. Otherwise, an error message will be displayed.
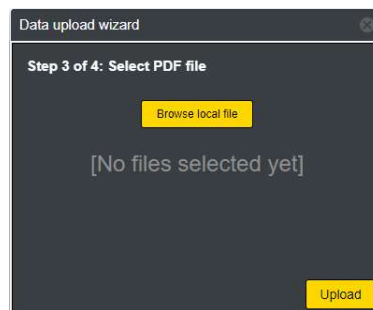
4.3.9 Click the **Browse local file** button.
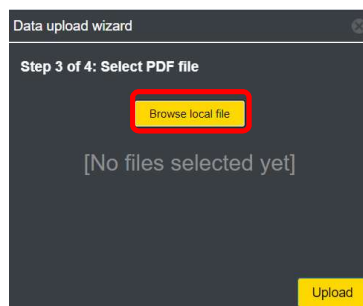
4.3.10 The **Open** file dialog will be displayed. Select the pdf file to be uploaded and click the **Open** button.
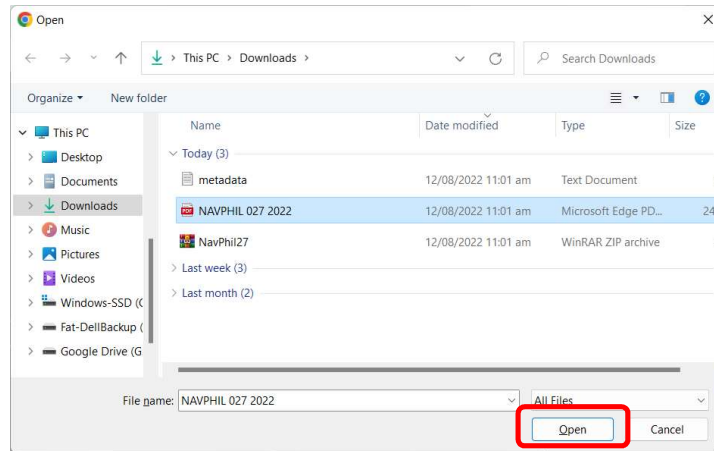
4.3.11 Click the **Upload** button.
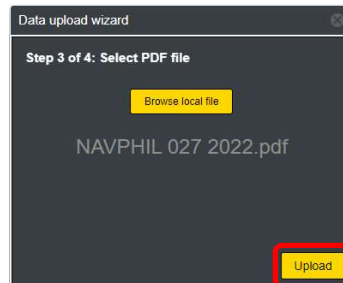
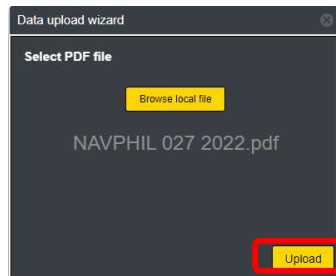4.3.12 The file will be uploaded and a *"Record successfully added "* message will appear. Otherwise, it will display an error message.
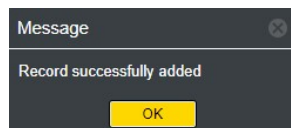
4.4 HOW TO SELECT A NAVIGATIONAL WARNING LAYER

4.4.1 Click a Navigational Warning from the **Layer Panel**. The settings of the Navigational Warning layer will be displayed in the **Settings Panel** and the **Map Panel** will zoom in on the Navigational Warning layer's full extent.
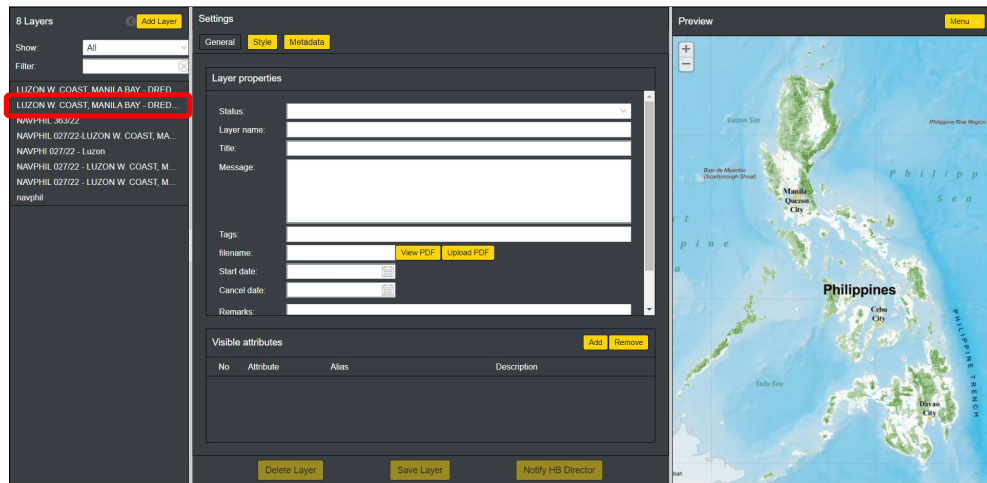
4.5 HOW TO EDIT A NAVIGATIONAL WARNING LAYER'S PROPERTIES

4.5.1 Select a Navigational Warning layer. If not selected, click the **General** tab.
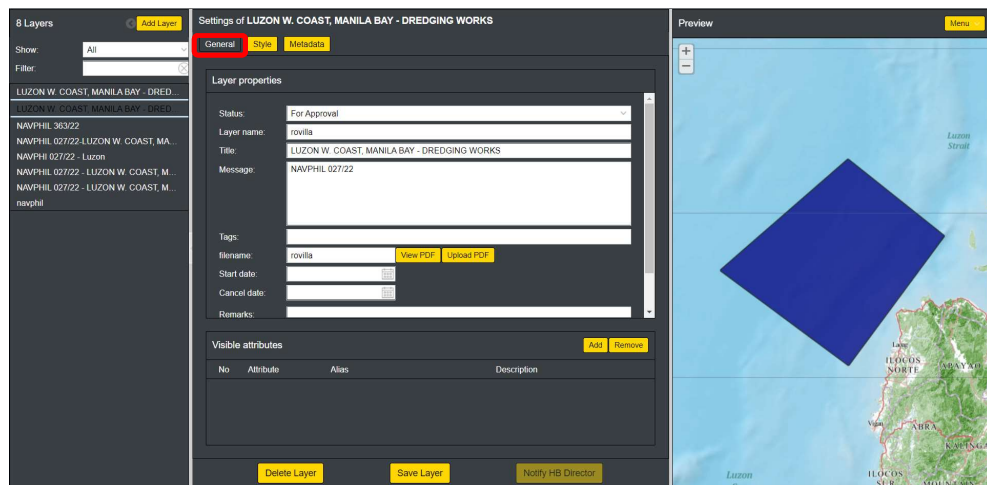
4.5.2   The properties of the selected Navigational Warning layer can be edited. Click the **Save Layer** button.
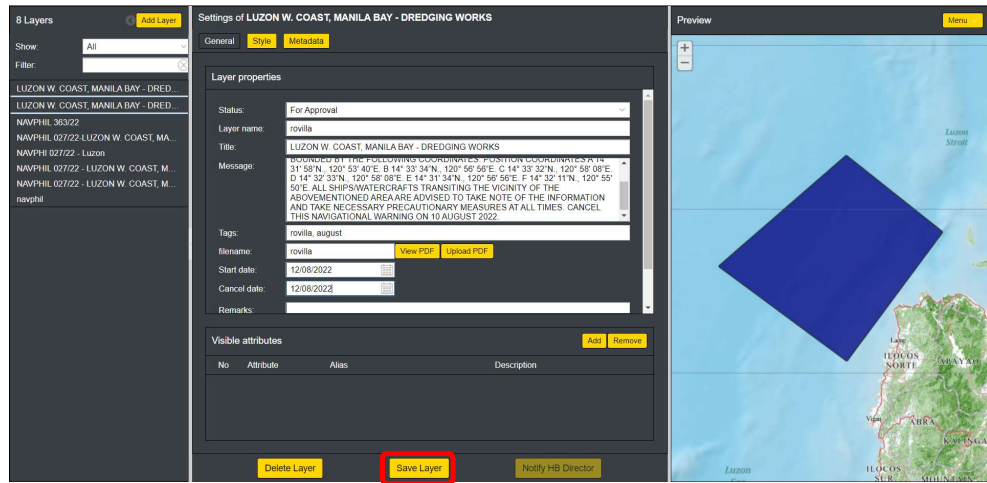
4.5.3   The file will be updated and a *"Changes saved"* message will appear.
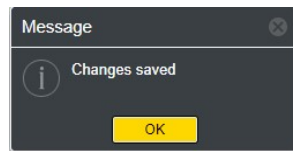
4.6   HOW TO VIEW NAVIGATIONAL WARNING LAYER PDF

4.6.1   Select a Navigational Warning layer from the list, click the **View PDF** button
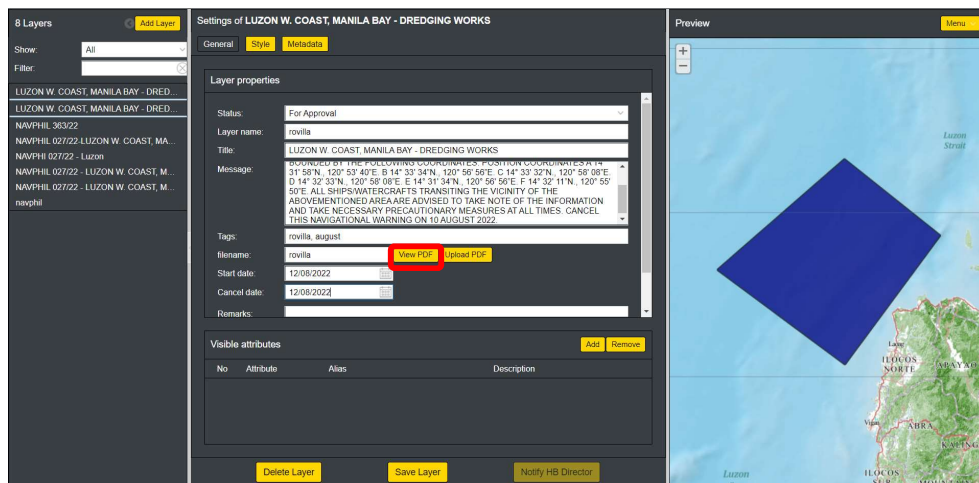
4.6.2   The pdf file will be opened in a new window.
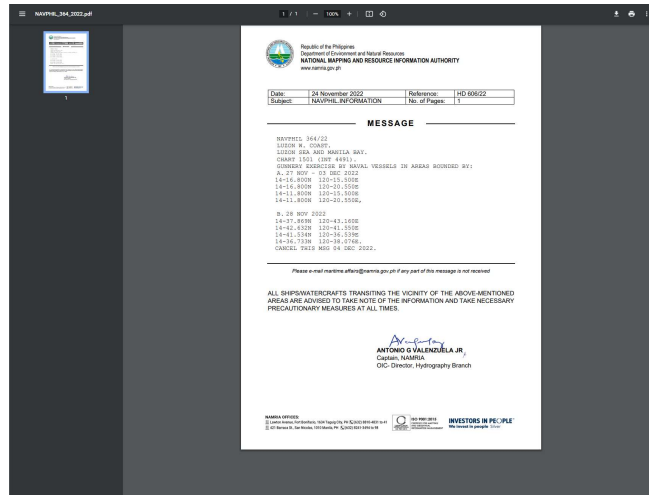
4.7   HOW TO RE-UPLOAD NAVIGATIONAL WARNING LAYER PDF

4.7.1   Select a Navigational Warning layer from the list, click the **Upload PDF** button.
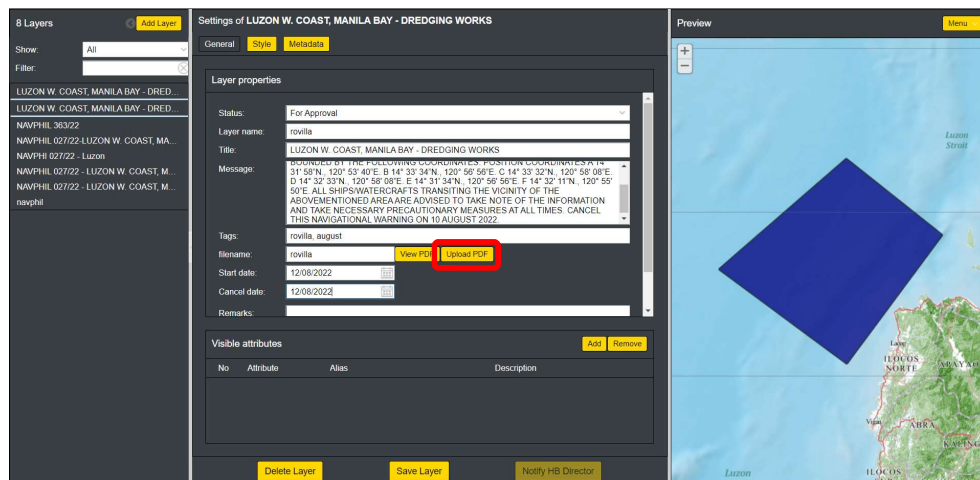
4.7.2   The **Data upload wizard** dialog will be displayed.
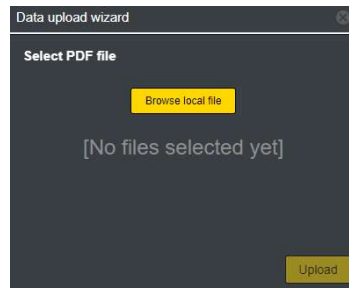
4.7.3   Click the **Browse local file** button.
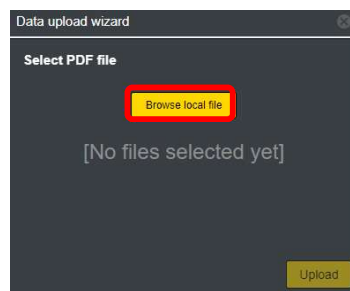
4.7.4   The **Open** file dialog will be displayed. Select the pdf file to be uploaded
and click the **Open** button.
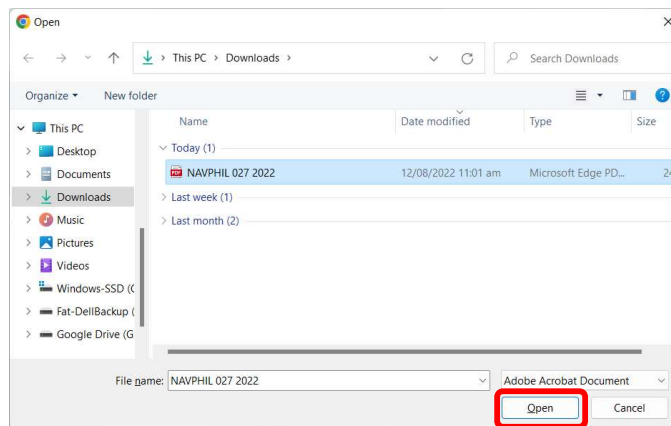
4.7.5   Click the **Upload** button.

4.7.6   The file will be uploaded and a *"File successfully uploaded"* message will appear.
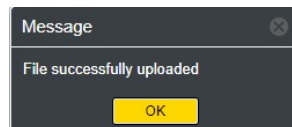
4.8   HOW TO MANAGE A NAVIGATIONAL WARNING LAYER'S VISIBLE ATTRIBUTES

4.8.1   How to add an attribute

4.8.1.1   Select a Navigational Warning Layer. In the **Visible attributes** grid, click the **Add** button.
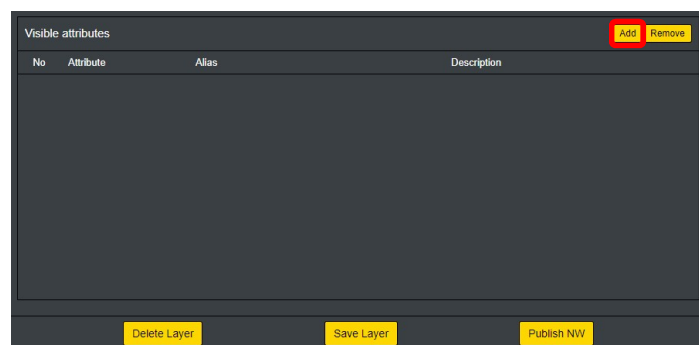
4.8.1.2   The attribute window will appear.
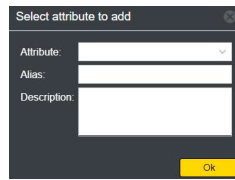
4.8.1.3   Select an attribute in the dropdown list. Encode alias and description. Click the **Ok** button. The attribute will be added in the list of visible attributes (to add multiple attributes, repeat steps 5.8.1.1 to 5.8.1.3).
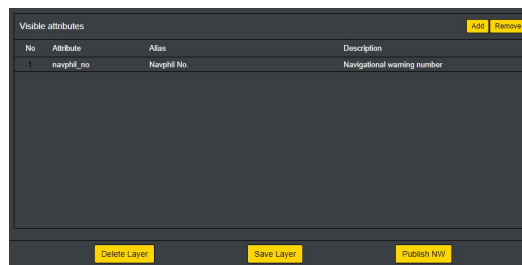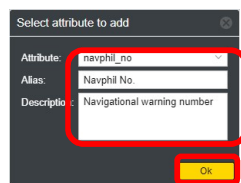
4.8.1.4   Click the **Save Layer** button. The changes to the visible attributes will be saved.
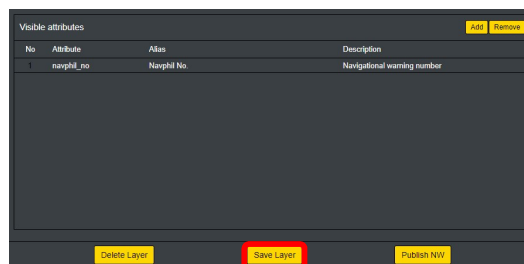
4.8.2   How to edit an attribute

4.8.2.1   Select an attribute from the list. Double click the column to be edited.
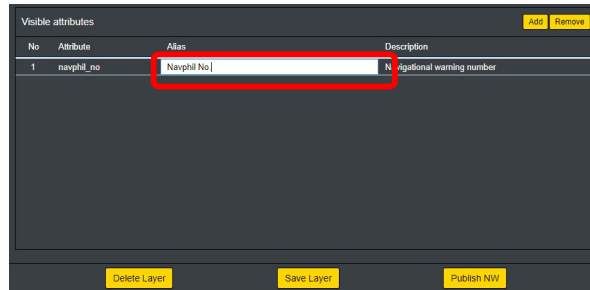
4.8.2.2   Click the **Save Layer** button.
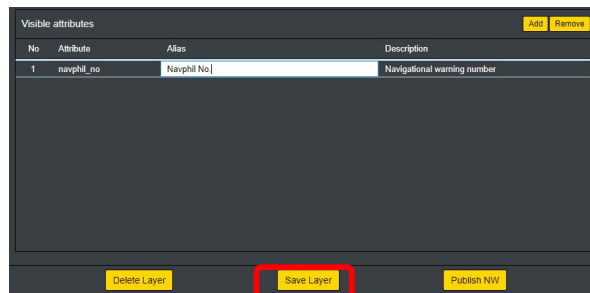
4.8.2.3   The visible attribute changes will be saved and a message *"Changes saved"* will appear.
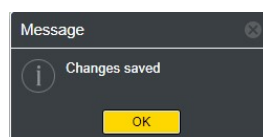
4.8.3   How to delete an attribute

4.8.3.1   Select an attribute from the list. Click the **Remove** button.

4.8.3.2   The selected attribute will be removed from the list.
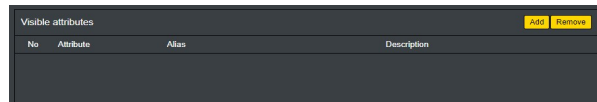
4.9   HOW TO STYLE A LAYER

4.9.1   Select a layer from the list. In the **Settings panel**, click the **Style** tab to select it.
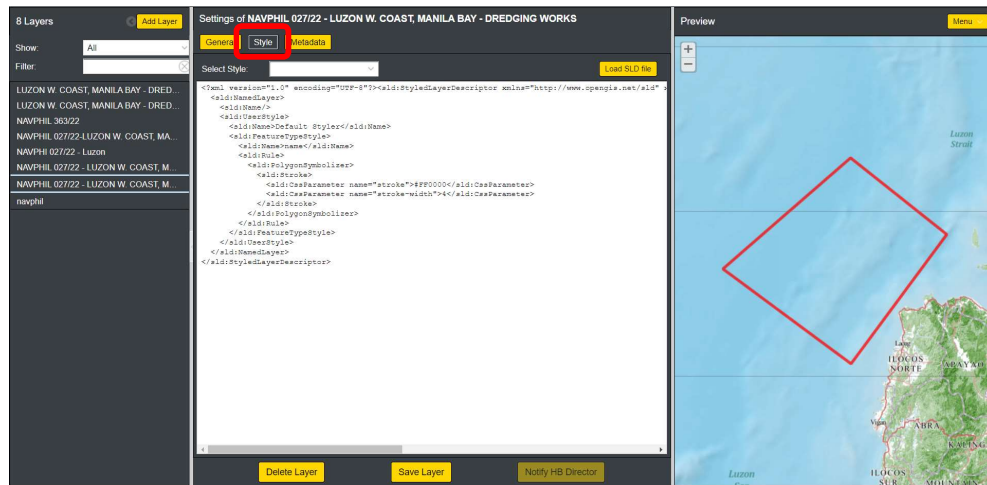
4.9.2   By default, a style is automatically assigned to a layer. To change the style of a layer, select a style from the dropdown menu. The textbox will display the selected style.
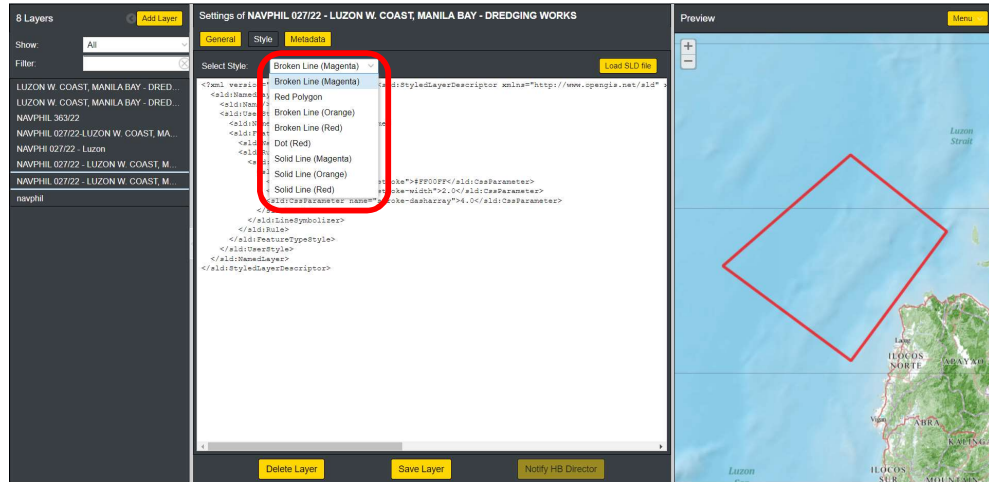
4.9.3   Click the **Save Layer** button.
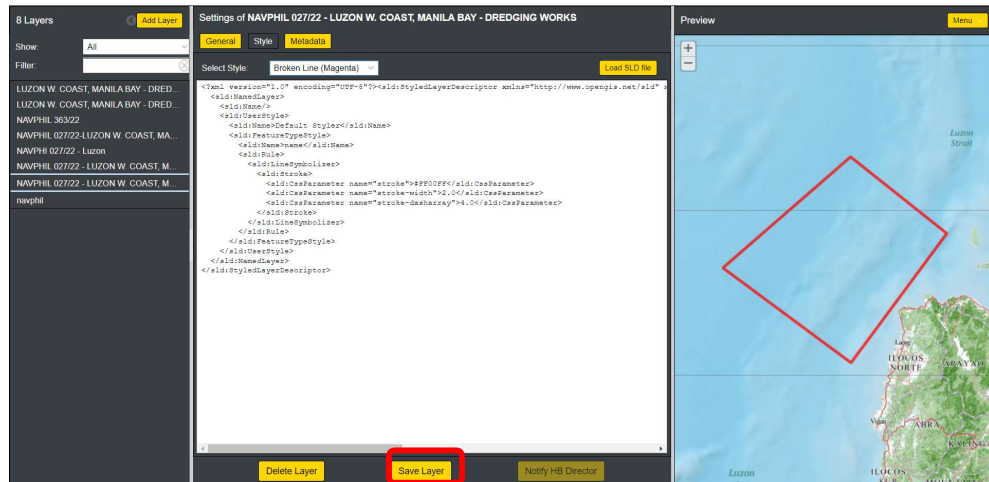
4.9.4   A *"Changes saved"* message will appear and the style will be updated in the Map panel.
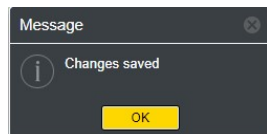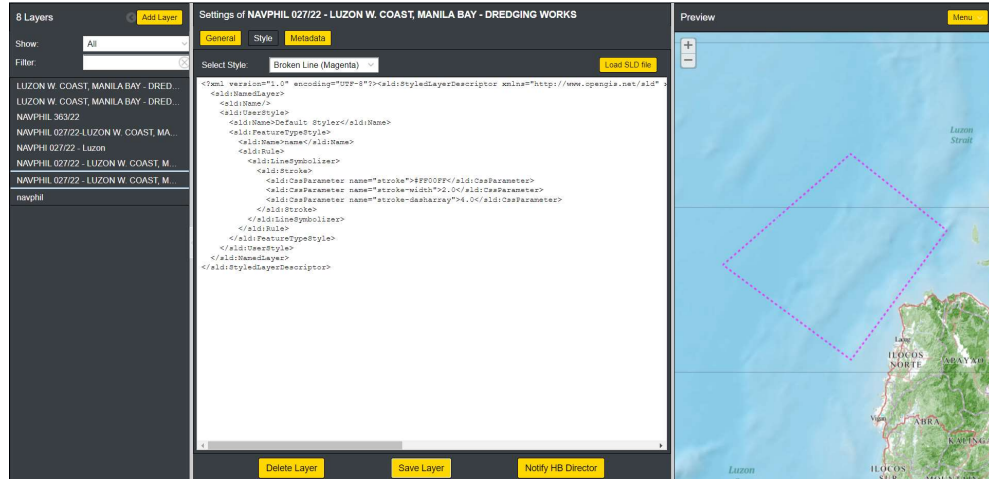
4.10 HOW ADD A LAYER'S METADATA

4.10.1 Select a layer from the list. In the **Settings panel**, click the **Metadata** tab to select it.
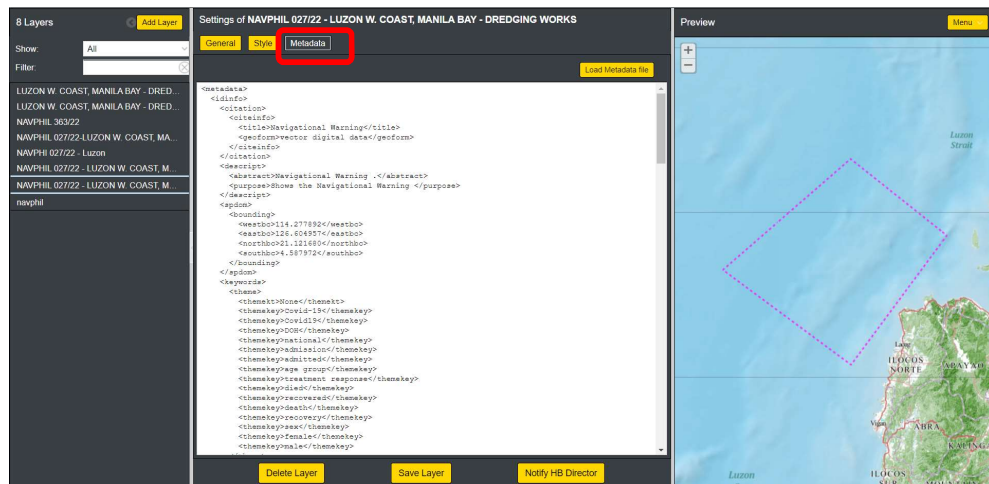
4.10.2 Click the **Load Metadata** button.
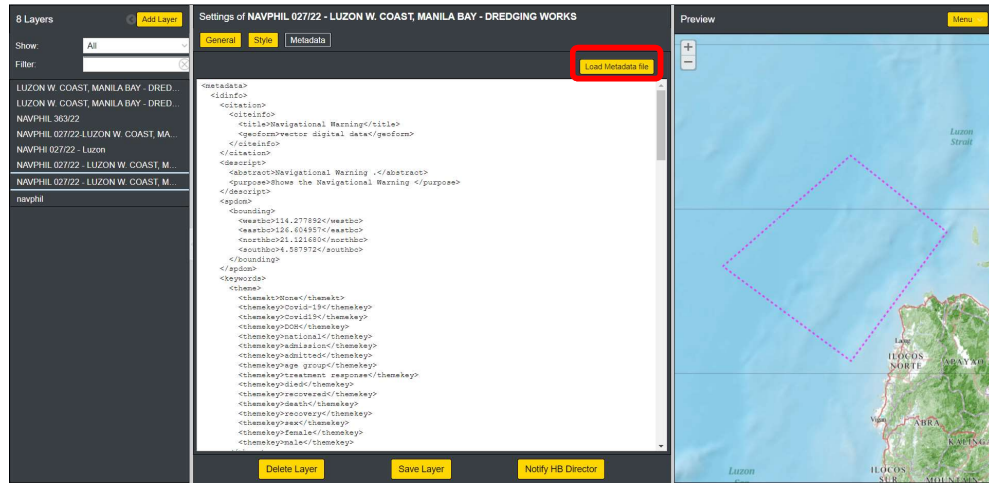
4.10.3 The **Open** file dialog will be displayed. Select the metadata file (xml format) and click the **Open** button.
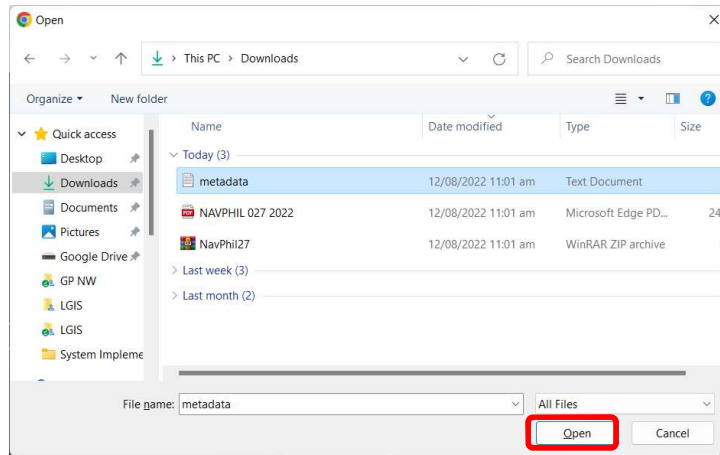
4.10.4 The metadata will be loaded in the metadata textbox.
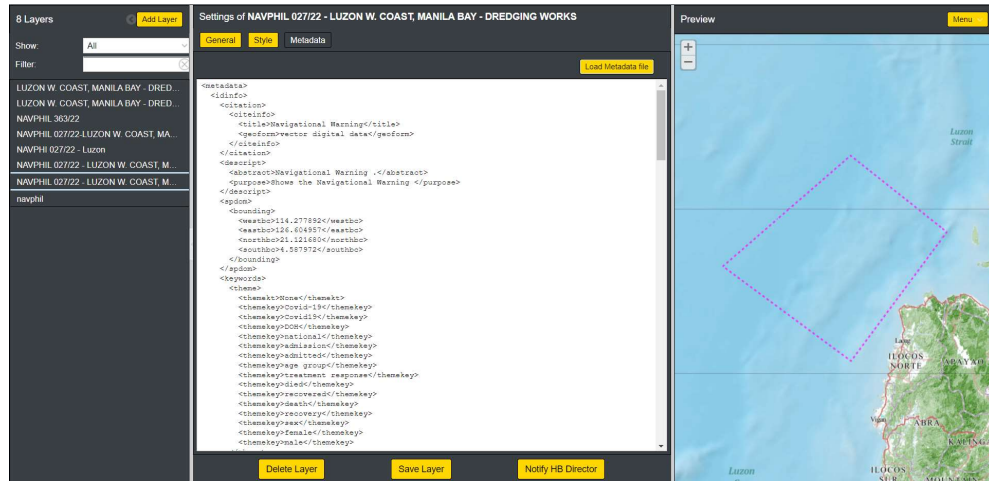
4.10.5 Click the **Save Layer** button.
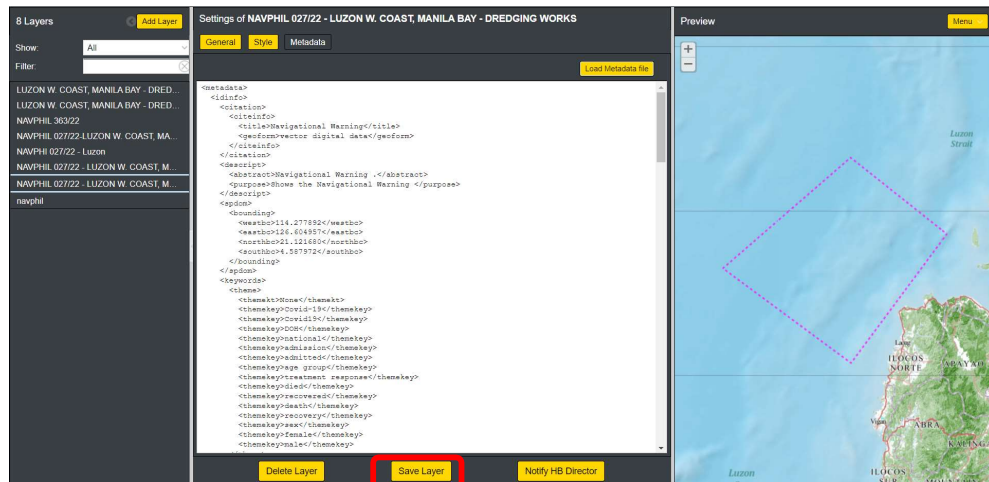
4.10.6 Changes to the metadata will be saved and a *"Changes saved"* message will appear.
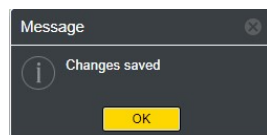
4.11 HOW TO PUBLISH A NAVIGATIONAL WARNING LAYER

4.11.1 Notify CMAD

4.11.1.1 Login the MAD Personnel account. Select a layer to be published and click the **Notify CMAD** button.
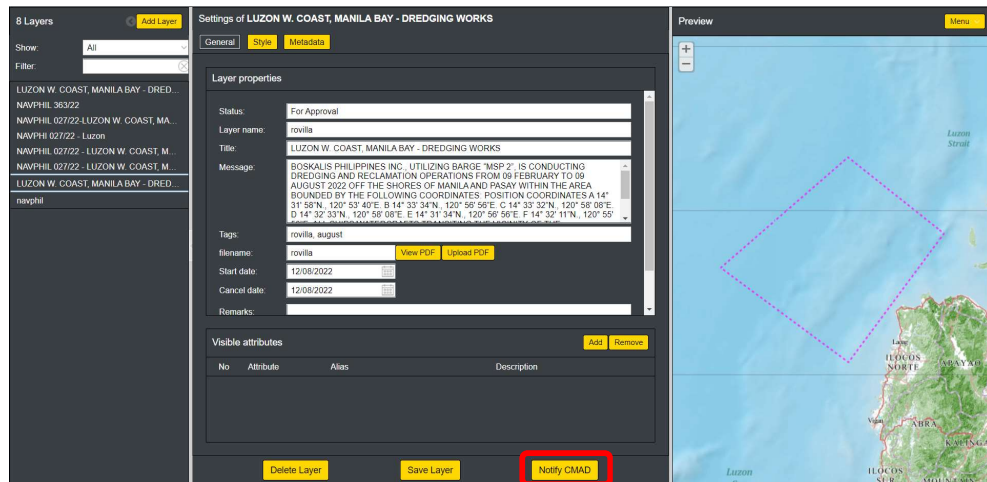
4.11.1.2 The CMAD account will receive a notification email that a Navigational Warning layer is for approval.
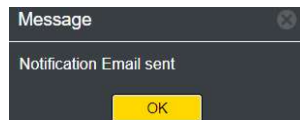
4.11.2 Notify HB Director Account

4.11.2.1 Login the CMAD account. Select the layer to be published. Check if all the properties, styles, metadata, map display, and pdf file are complete and then click the **Notify HB Director** button.
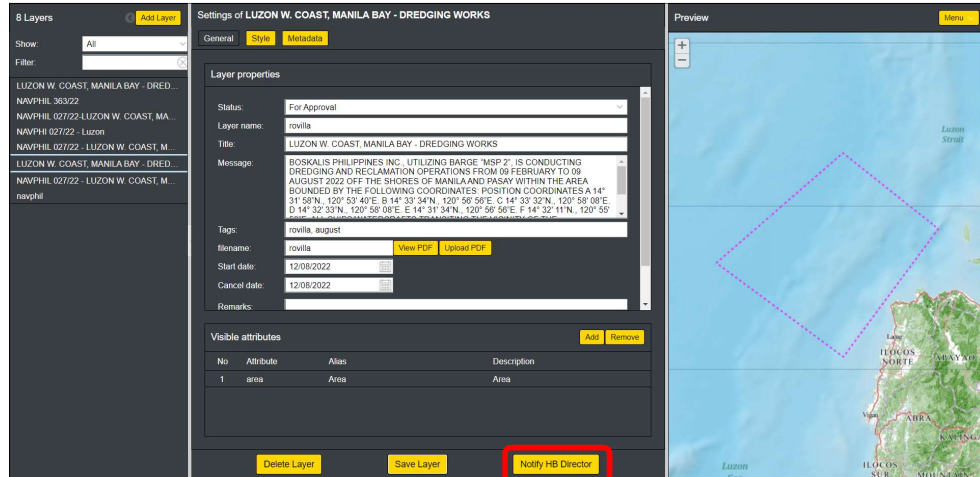
4.11.2.2 The Hydrography Branch Director account will receive an email that there is a Navigational Warning for publishing.
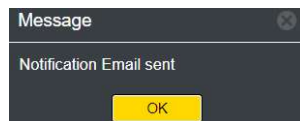
4.11.3 Publish layer

4.11.3.1 Login the HB Dir account. Select the layer to be published. Perform final checking.
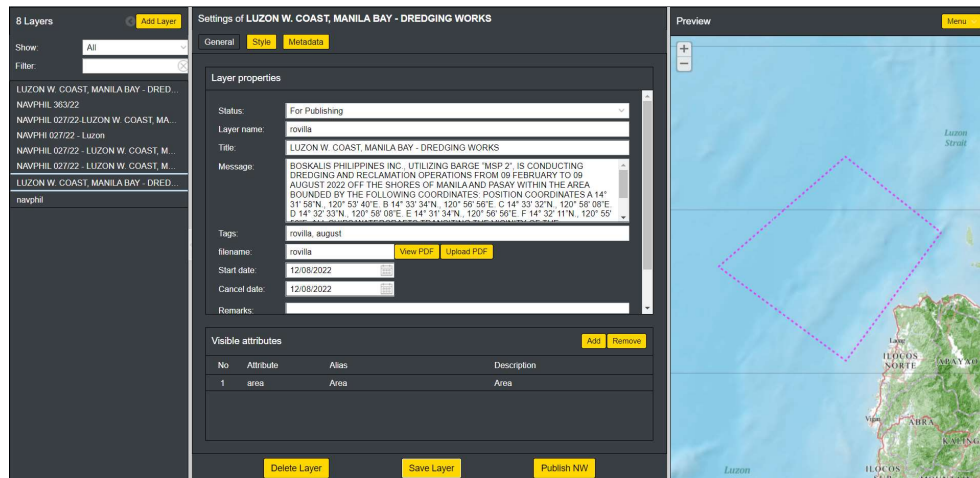
4.11.3.2 Click the **View PDF** button to view and sign the pdf file.
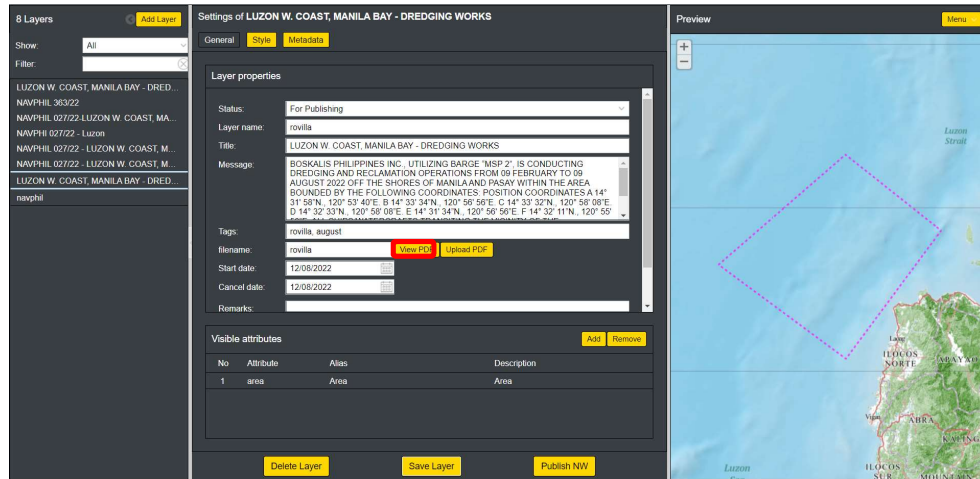
4.11.3.3 Click the **Upload PDF** button to re-upload the signed pdf file.
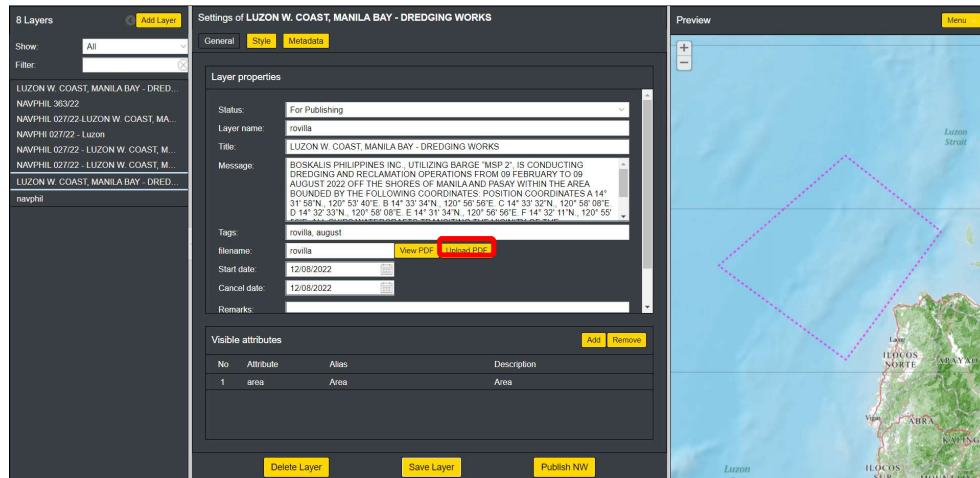
4.11.3.4 Click the **Publish NW** button. The Navigational Warning layer will be published in the NAMRIA website and it will be displayed in the Navigational Warning Map App. The mailing list will also receive an email notifying them of the new Navigational Warning.
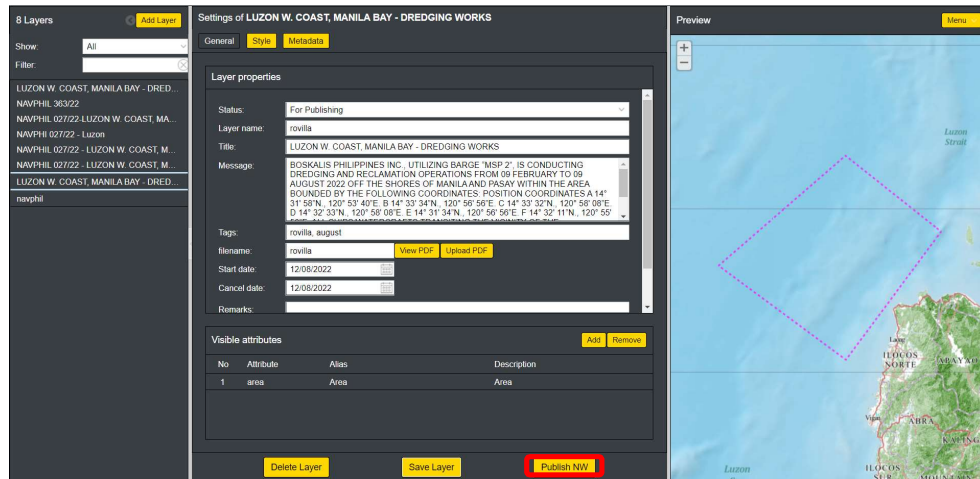
4.12 HOW TO CANCEL A NAVIGATIONAL WARNING

By default, a Navigational Warning will be automatically cancelled when the cancel date is reached. But it can also be cancelled before the actual cancel date. Please note that a CMAD or HB Dir account is needed to perform this.

4.12.1 Select a Navigational Warning to be cancelled, in the **Status** dropdown menu, select "Cancelled".
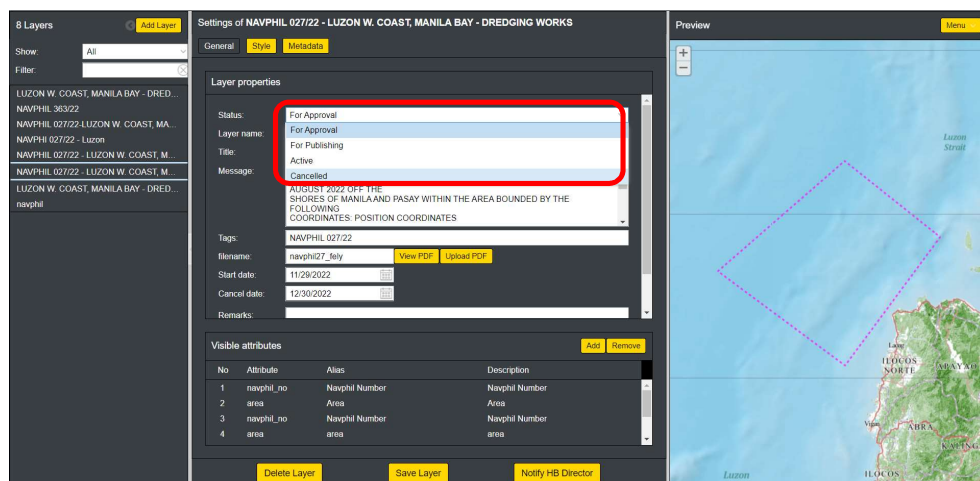
4.12.2 Click the **Save Layer** button.
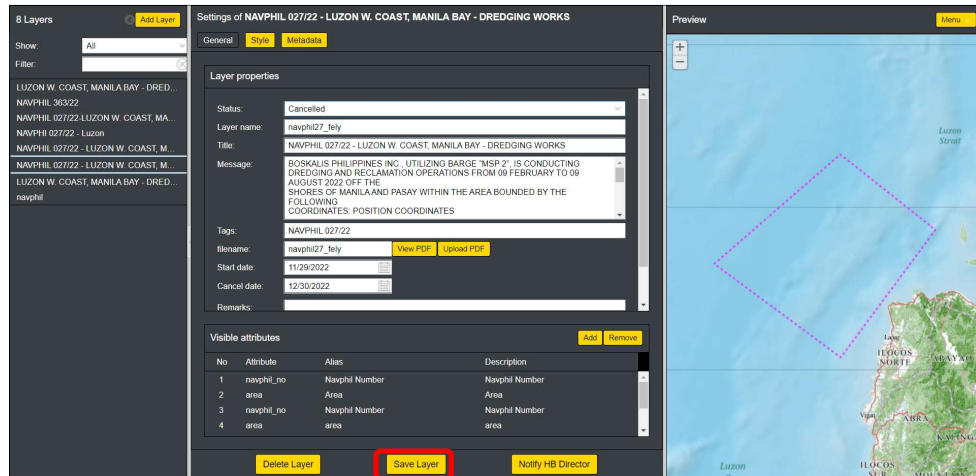
4.12.3 The Navigational Warning will be cancelled, the cancel date will be the current date. A message *"Changes saved. Status of the NW changed to Cancelled and will be removed from the NW Map App display"* will appear.
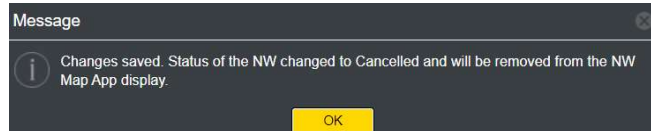
5   USER MAINTENANCE

5.1   HOW TO ACCESS USER MAINTENANCE

5.1.1   In the upper right corner NW Builder screen, click **Menu → User Maintenance.**
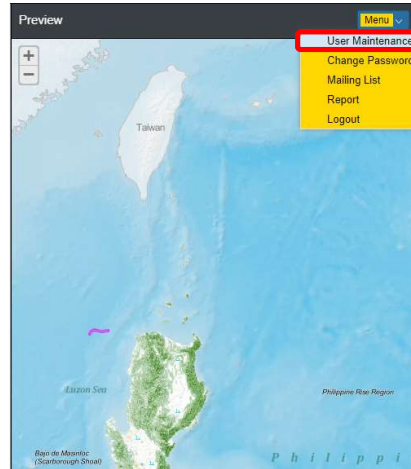
5.1.2   The **User Maintenance** page will be displayed in another tab.
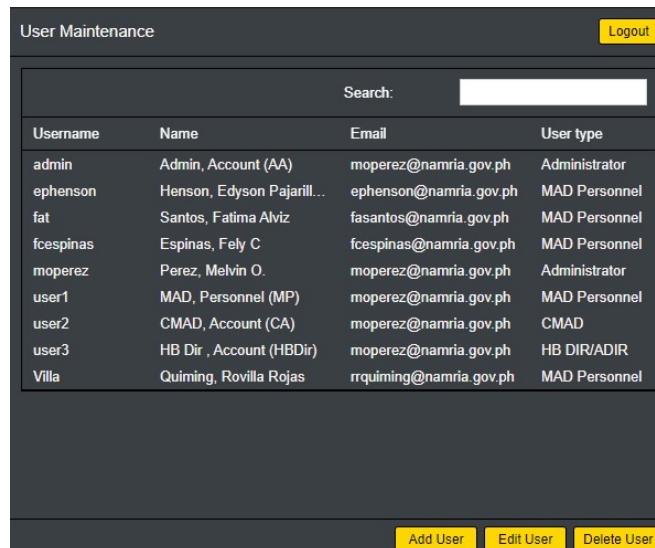
5.2 HOW TO SEARCH FOR A USER

5.2.1 Encode a text in the **Search** textbox. The username and name fields are used to search for a user.
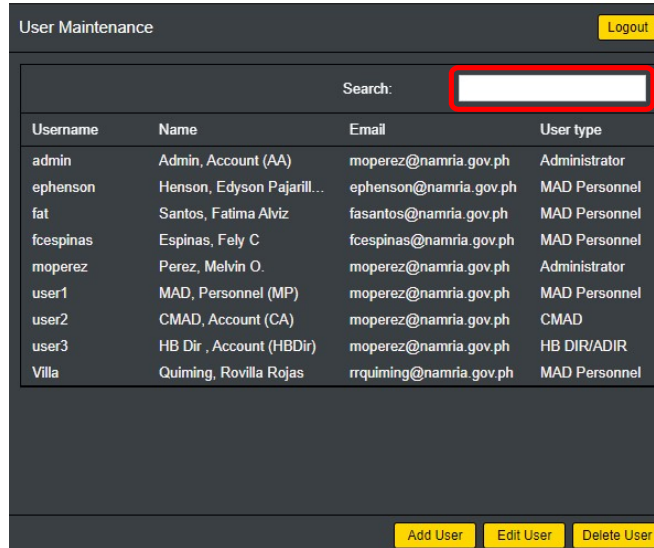
5.2.2 The **User** grid will filter the users based on the text entered.
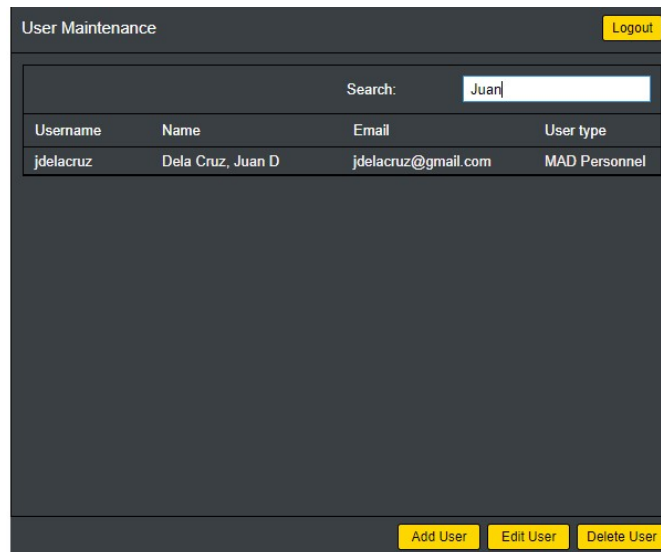
5.3   HOW TO ADD A USER

5.3.1   Click the **Add User** button.
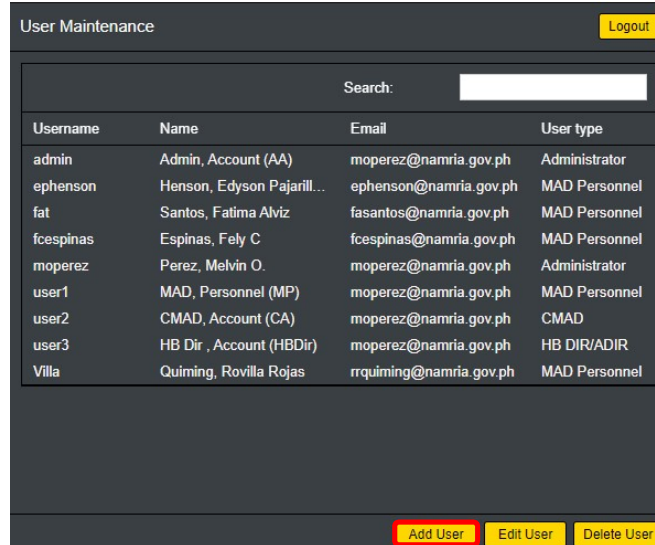
5.3.2   Fill up all the fields.
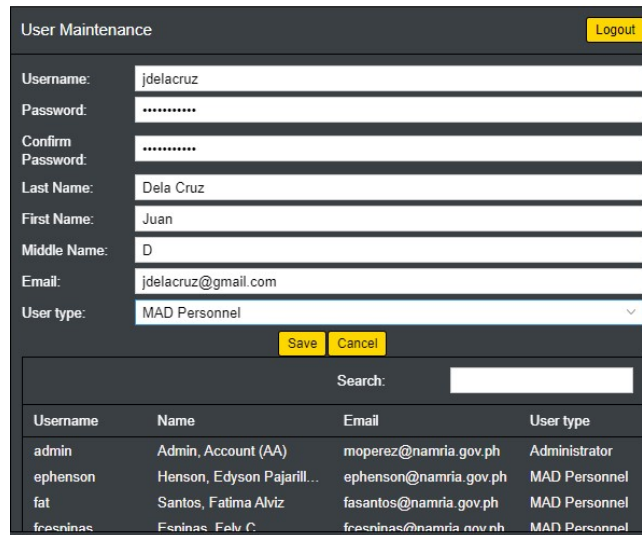
User type	Role
Mad Personnel	• Uploads NW for approval • Access Mailing list
CMAD	• Verify and approves NW • Access User Maintenance • Access Mailing List • Update NW status
HB Dir	• Approves and publishes the NW • Update NW status
Administrator	• Administrator account

5.3.3   Click the **Save** button.

5.3.4   A *"User successfully added"* message will appear if all the fields are filled up correctly.
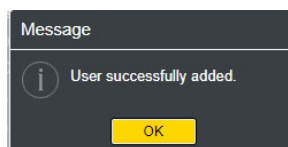
- A *"Username already exist"* message will appear if there is a duplicate username.
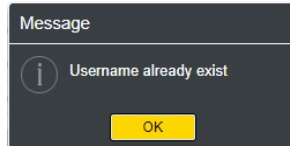
- A *"Password and confirm password does not match. Please try again."* message will appear if the password fields does not match.
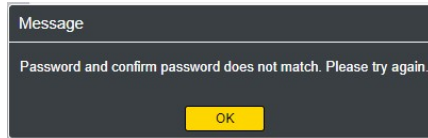
- A *"Password must be 6 to 20 characters and must contain at least one numeric digit, one uppercase and one lowercase letter"* message will appear if the password does not meet the criteria.
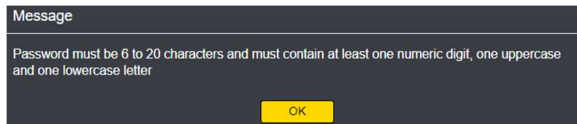
5.4 HOW TO EDIT A USER
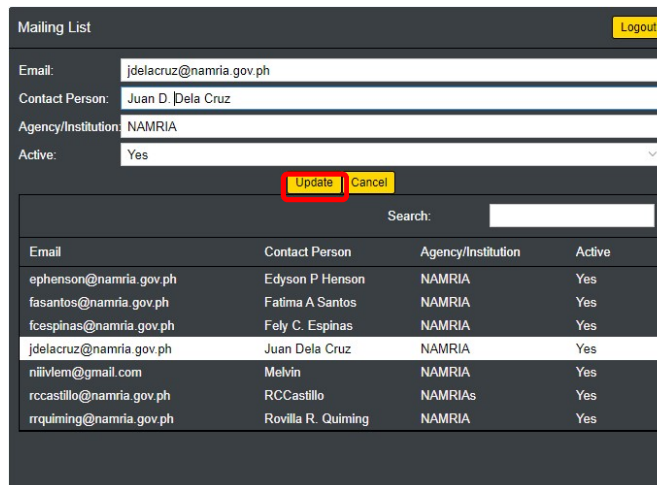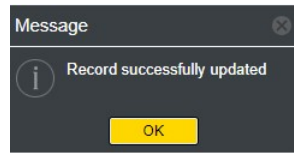
5.4.1 Select a user from the grid and then click the **Edit User** button.
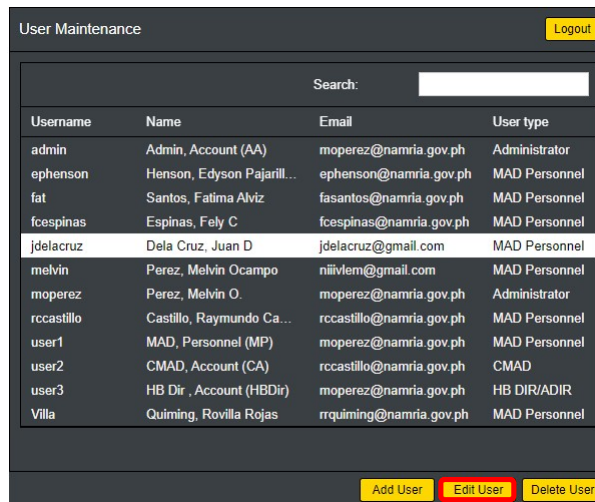
5.4.2 Update user details and the click the **Update** button.

5.4.3 A *"User successfully updated"* message will appear.
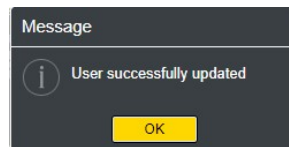

5.5 HOW TO DELETE A USER

5.5.1 Select a user from the grid and then click the **Delete User** button.

5.5.2   A *"Are you sure you want to delete this user?"* confirmation message will be displayed.
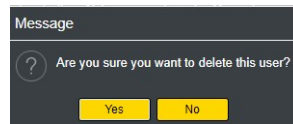
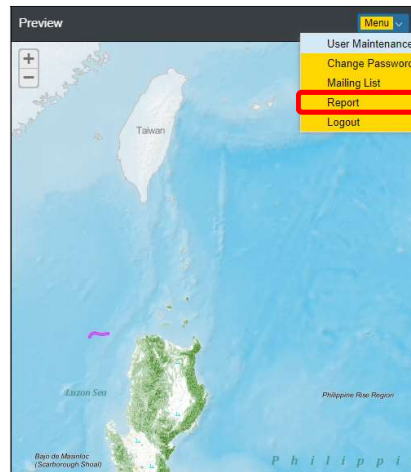5.5.3   Click **No** to cancel. Otherwise, click **Yes** to permanently delete the user. A *"User successfully deleted"* will appear.
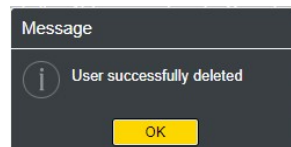
6   MAILING LIST

6.1   HOW TO ACCESS MAILING LIST

6.1.1   In the upper right corner NW Builder screen . Click **Menu → Mailing List.**
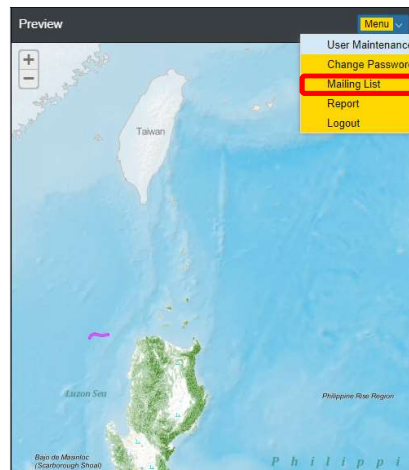
6.1.2 The **Mailing list** page will be displayed in another tab.
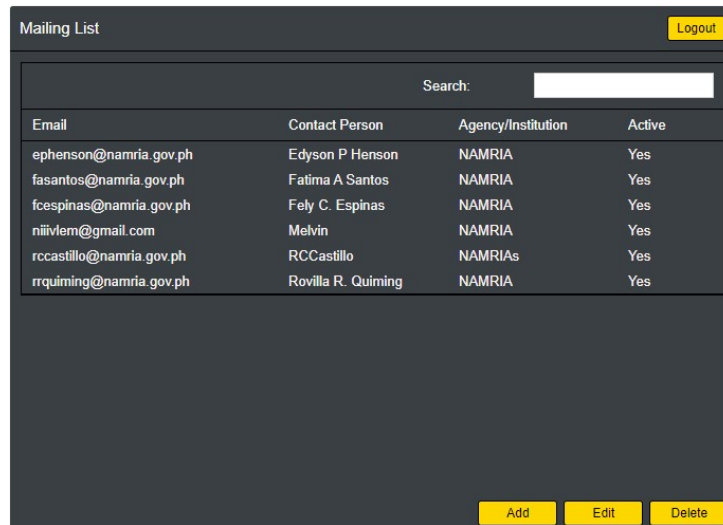
6.2 HOW TO ADD A RECORD

6.2.1 Click the **Add** button.
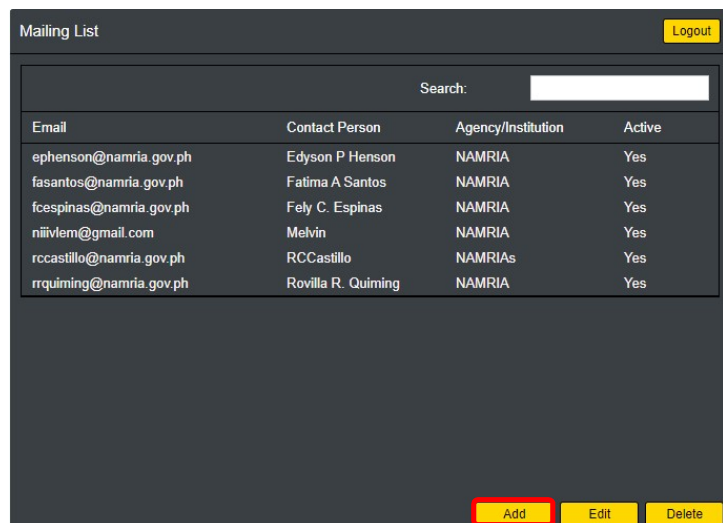
6.2.2   Encode the following information:

- Email
- Contact person
- Agency/Institution

6.2.3   Click the **Save** button.

6.2.4 A *"Record successfully added."* message will appear.
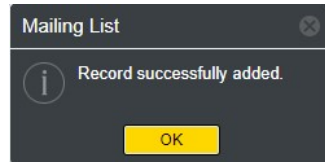
6.3 HOW TO EDIT A RECORD

6.3.1 Select a record from the grid and then click the **Edit** button.
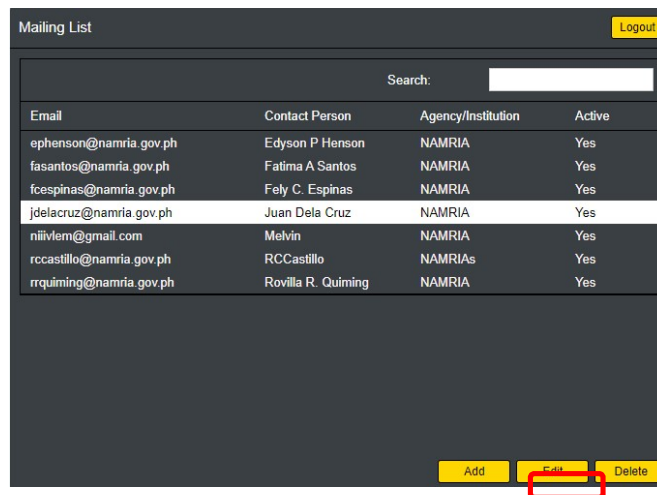
6.3.2 Update record details and then click the **Update** button to save the changes.

6.3.3   A *"Record successfully updated"* message will appear.

6.4   HOW TO DELETE A RECORD

6.4.1   Select a record from the grid and then click the **Delete** button.
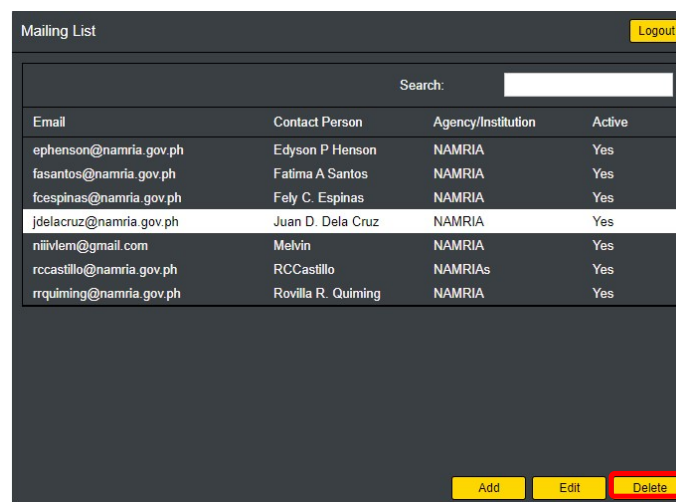
6.4.2   A *"Are you sure you want to delete this record?"* confirmation message will appear.
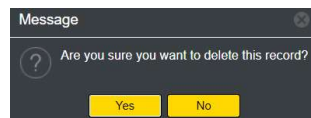
6.4.3   Click **No** to cancel. Otherwise, click **Yes** to permanently delete the user. A *"Record successfully deleted"* will appear.
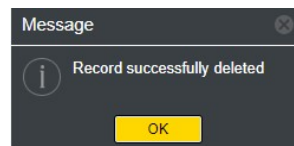
7   REPORT

7.1   HOW TO ACCESS REPORT

7.1.1   In the upper right corner NW Builder screen . Click **Menu** → **Report**

7.1.2   The **Report** page will be displayed in another tab.

7.2   HOW TO USE FILTER

7.2.1   Select a date range you want to filter and then click the **Filter** button.

7.2.2   The grid will only display corresponding records.

7.2.3   Click **Clear Filter** button to display all records.

7.3   HOW TO EXPORT TO CSV

7.3.1   Click the **Save as CSV** button. The records will be exported in csv format.