



# Geospatial Lab 地理空間實驗室

**Tung Wah Group of Hospitals (TWGHs)**

**User Guide**

**for GIS API Library Website**

**Version 1.2**

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**Revision History**

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# **1. Introduction**

This document is intended to provide users with basic guidance on how to use the GIS API Library website in URL at <https://ngospatialshare.org.hk/>. The establishment of website is to provide the spatial data shared by non-governmental organization (NGO) to general public.

## **1.1 Scope**

The scope of this document covers the website's user interfaces and functions for searching, getting and downloading required datasets from different non-governmental organizations (NGOs). It also let users know how to access this GIS API library and relevant data specifications for getting these datasets.

## 2. Usage of GIS API LIBRARY

### 2.1 How to Preview the Spatial Data in Map?

#### Step 1

Access the GIS API Library website by entering the URL: <https://ngospatialshare.org.hk/>, and then click “Dataset” (Figure 1).

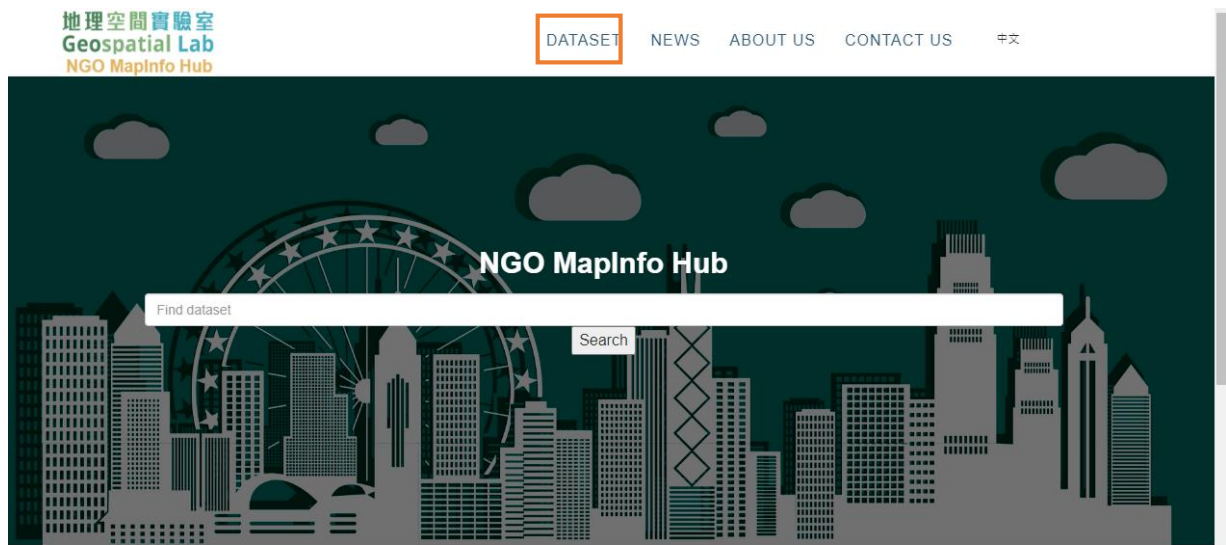


Figure 1

## Step 2

By accessing to the “Dataset” page, user can select one of the datasets under “Data Providers” (Figure 2, i.e. the Data Providers of the NGOs), or click “Search” menu to input the relevant name of dataset in search (Figure 3).

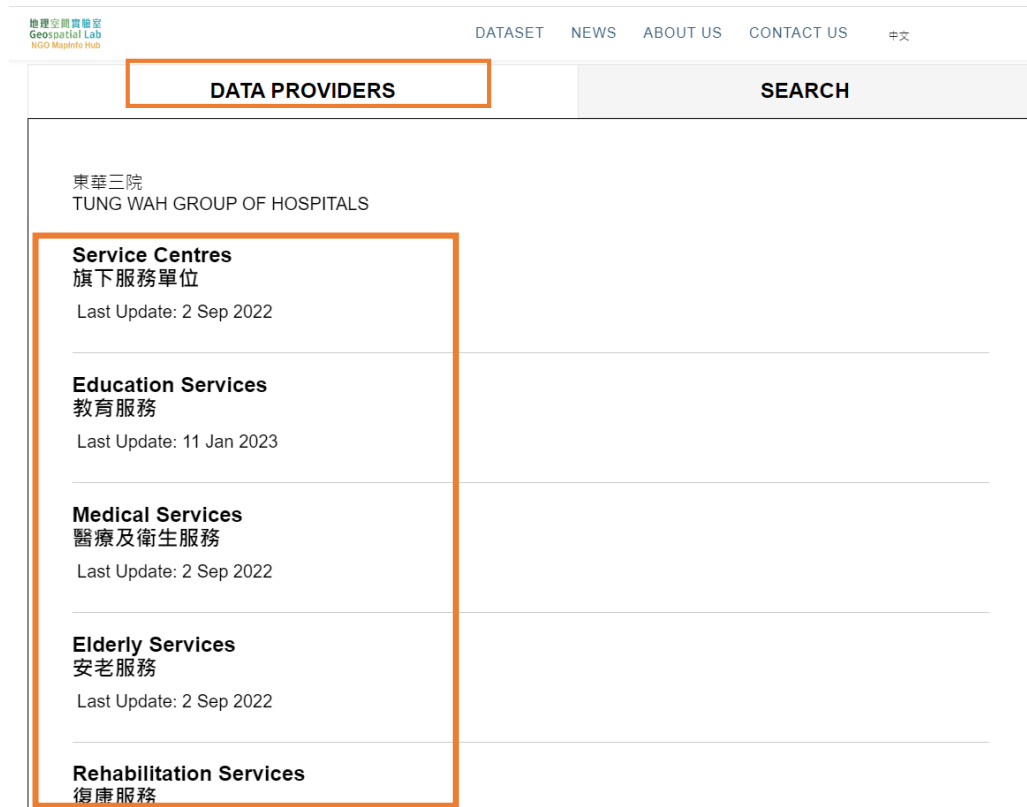


Figure 2

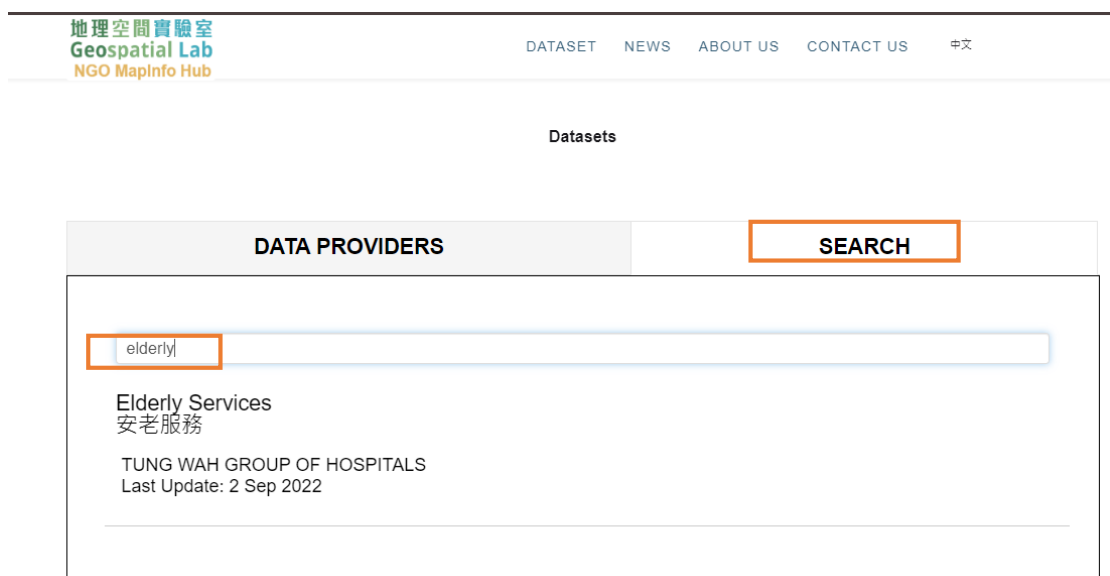


Figure 3

### Step 3

After the “Step 2”, the tagged locations of selected dataset will be shown on the map below. The row of dataset records will also be displayed underneath the map (Figure 4).

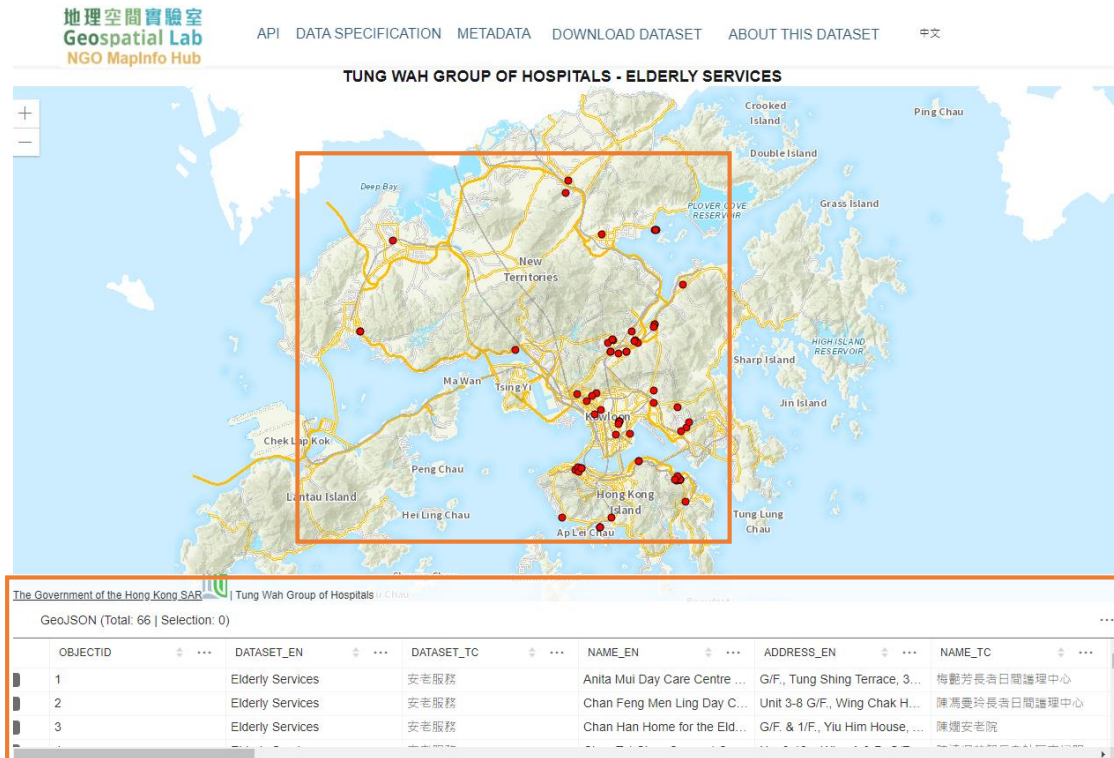


Figure 4



As shown in Figure 5 below, user can click the checkbox of particular row of dataset record for getting details about the spatial data. In Figure 6, users can also click the tagged location on the map. A popup panel will then be shown with its details.



## 2.3 How to Get General Information of the Dataset?

To view the relevant metadata of dataset including Data Provider, dates of last update and last review, geometry type and etc., user can simply click “ABOUT THIS DATASET” on the main menu (Figure 7).

The screenshot shows the Geospatial Lab website with the 'ABOUT THIS DATASET' link highlighted in the top navigation bar. A pop-up window titled 'About this Dataset' displays the following information:

Data Provider	TUNG WAH GROUP OF HOSPITALS
Last Update	2 Sep 2022
Last Review	2 Sep 2022
Geometry Type	Point

Below the map, a table shows the dataset's metadata:

NAME_EN	Enhanced Home and Community Care Services (Kowloon City) [EH&CCS (KC)]
ADDRESS_EN	G/F., Wong Cho Tong Social Service Building, 39 Sheung Shing Street, Homantin, Kowloon
NAME_TC	改善家居及社區照顧服務 (九龍城)
ADDRESS_TC	九龍何文田常盛街39號黃埔業社會服務大樓地下
COORDINATE_EN	Mandarin to Cantonese: 0-20 m

Figure 7

## 2.4 How to Download the Dataset?

User can click “DOWNLOAD DATASET” on the main menu and then select required formats like GeoJson or CSV (Figure 8). The dataset in specific format will then be downloaded through the browser. The downloaded CSV file could be opened on the Microsoft Excel for user’s further manipulation.

The screenshot shows the Geospatial Lab website with the 'DOWNLOAD DATASET' link highlighted in the top navigation bar. A pop-up window titled 'TUNG WAH GROUP OF HOSPITALS' displays the download options for the 'Elderly Services' dataset. The 'GeoJSON' and 'CSV' options are highlighted.

Below the map, a table shows the dataset's metadata:

OBJECTID	12
DATASET_EN	Elderly Services
DATASET_TC	安老服務
NAME_EN	Enhanced Home and Community Care Services (Kowloon City) [EH&CCS (KC)]
ADDRESS_EN	G/F., Wong Cho Tong Social Service Building, 39 Sheung Shing Street, Homantin, Kowloon
NAME_TC	改善家居及社區照顧服務 (九龍城)
ADDRESS_TC	九龍何文田常盛街39號黃埔業社會服務大樓地下
COORDINATE_EN	Mandarin to Cantonese: 0-20 m

Below the map, a table shows the download options for the dataset:

Format	Download
GeoJSON	Download
CSV	Download

Below the map, a table shows the download options for the dataset:

Format	Download
GeoJSON	Download
CSV	Download

Below the map, a table shows the download options for the dataset:

Format	Download
GeoJSON	Download
CSV	Download

Figure 8

## 2.5 How to Download the Metadata?

As shown in Figure 9, user can click “METADATA” on the main menu to download the metadata in “XML” format.

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API DATA SPECIFICATION **METADATA** DOWNLOAD DATASET ABOUT THIS DATASET 中文

### TUNG WAH GROUP OF HOSPITALS - ELDERLY SERVICES

The screenshot shows a map of Hong Kong with a red dot indicating a location. A metadata table is displayed on the right side of the map, titled 'tungwahelderlyservices'. The table contains the following data:

OBJECTID	12
DATASET_EN	Elderly Services
DATASET_TC	安老服務
NAME_EN	Enhanced Home and Community Care Services (Kowloon City) [EH&CCS (KC)]
ADDRESS_EN	G/F., Wong Cho Tong Social Service Building, 39 Sheung Shing Street, Homantin, Kowloon
NAME_TC	改善家居及社區照顧服務 (九龍城)
ADDRESS_TC	九龍何文田常盛街39號黃埔道社會服務大樓地下
NEEEDCUM1_EN	Monday to Saturday: 9:30 a.m.

GeoJSON (Total: 1 | Selection: 1)

OBJECTID	DATASET_EN	DATASET_TC	NAME_EN	ADDRESS_EN	NAME_TC	A
12	Elderly Services	安老服務	Enhanced Home and Com...	G/F., Wong Cho Tong Socia...	改善家居及社區照顧服務 (九...	九

Figure 9

## 2.6 How to Get Data Specification about the Dataset?

User can click the “DATA SPECIFICATION” button on the main menu (Figure 10). As shown in Figure 11, the relevant data specification about the selected dataset such as summary, data layers, entity descriptions, domain and physical data model will be shown accordingly.

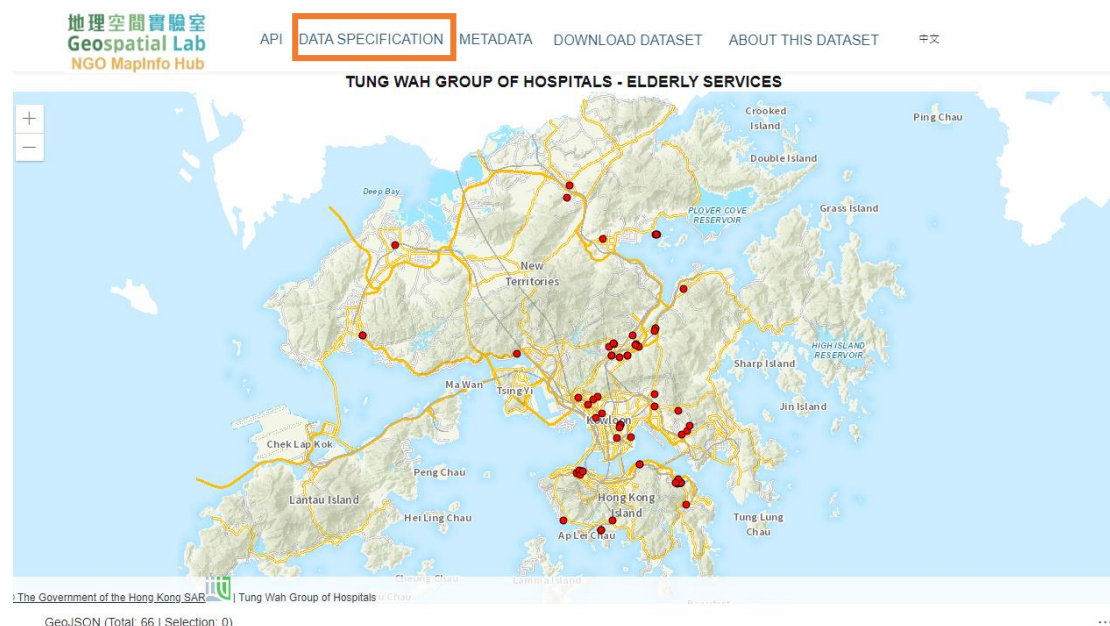


Figure 10

Simplified Data Specification for Common Sharable Spatial Data  
共享空間數據的簡易數據規格  
共享空間數據的簡易數據規格

### Tung Wah Elderly Services

東華安老服務

东华安老服务

#### 1 Summary / 摘要 / 摘要

The following section lists all the data types in Village Environ Dataset.  
以下章節列出認可鄉村範圍內的所有數據類型  
以下章節列出認可鄉村範圍內的所有數據類型

##### 1.1 Data Layers / 數據圖層 / 数据图层

Name / 名稱 / 名称	Type / 種類 / 种类	Description / 描述 / 描述
TungWahElderlyServices	Spatial Layer / 空間圖層 / 空间图层	TungWahElderlyServices / /

##### 1.2 Domain Tables / 定義域表 / 定义域表

Name / 名稱 / 名称	Description / 描述 / 描述
----------------	-----------------------

#### 2 Entity Descriptions / 實體描述 / 实体描述

The following section lists the attribute description for each data layers.  
以下章節列出每個數據圖層的屬性描述。  
以下章節列出每個數據圖層的屬性描述。

##### 2.1 TungWahElderlyServices

Field Name / 資料欄名稱 / 资料栏名称	Data Type / 數據類型 / 数据类型	Null Option / 空值選項 / 空值选项	Description / 描述 / 描述
SHAPE	Geometry / 幾何 / 几何	Null	SHAPE / 幾何類型 / 几何类型
OBJECTID	OID / 物件識別碼 / 物件识别码	Not Null	OBJECTID / 物件識別碼 / 物件识别码
DATASET_FID	String / 字串 / 字符串	Null	Dataset (FID) / 數據值 / 数据值 / 数据值

Figure 11



## 2.7 How to Use API for Getting the Dataset?

### Step 1

As shown in Figure 12 below, user can click the “API” button on the main menu (Figure 12).

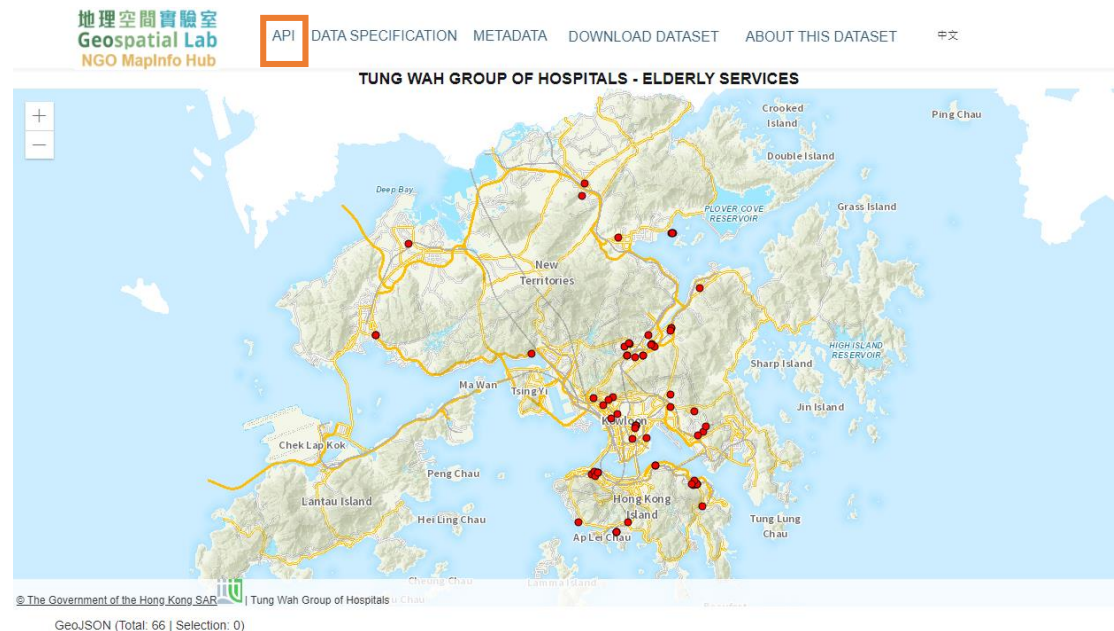


Figure 12

### Step 2

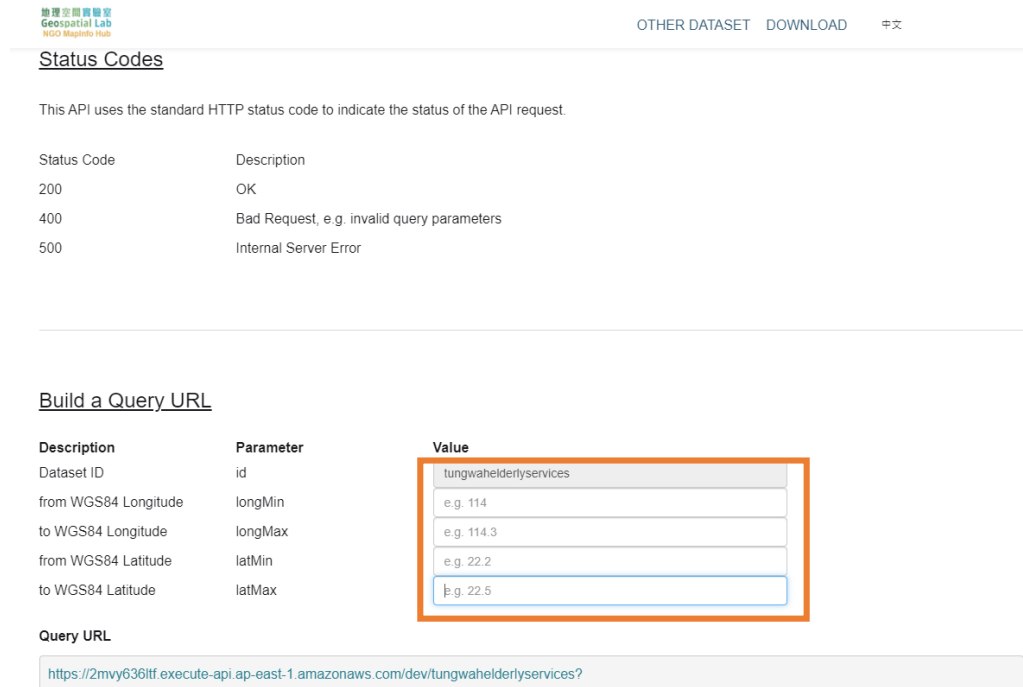
After the Step1, “GeoData Query API” interface will be displayed as shown in Figure 13.



Figure 13

### Step 3

User can then input the values of WGS83 coordinates such as “from WGS84 longitude”, “to WGS84 longitude”, “from WGS84 latitude” and “from WGS84 latitude” (Figure 14).



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OTHER DATASET DOWNLOAD 中文

#### Status Codes

This API uses the standard HTTP status code to indicate the status of the API request.

Status Code	Description
200	OK
400	Bad Request, e.g. invalid query parameters
500	Internal Server Error

#### Build a Query URL

Description	Parameter	Value
Dataset ID	id	tungwahelderlyservices
from WGS84 Longitude	longMin	e.g. 114
to WGS84 Longitude	longMax	e.g. 114.3
from WGS84 Latitude	latMin	e.g. 22.2
to WGS84 Latitude	latMax	e.g. 22.5

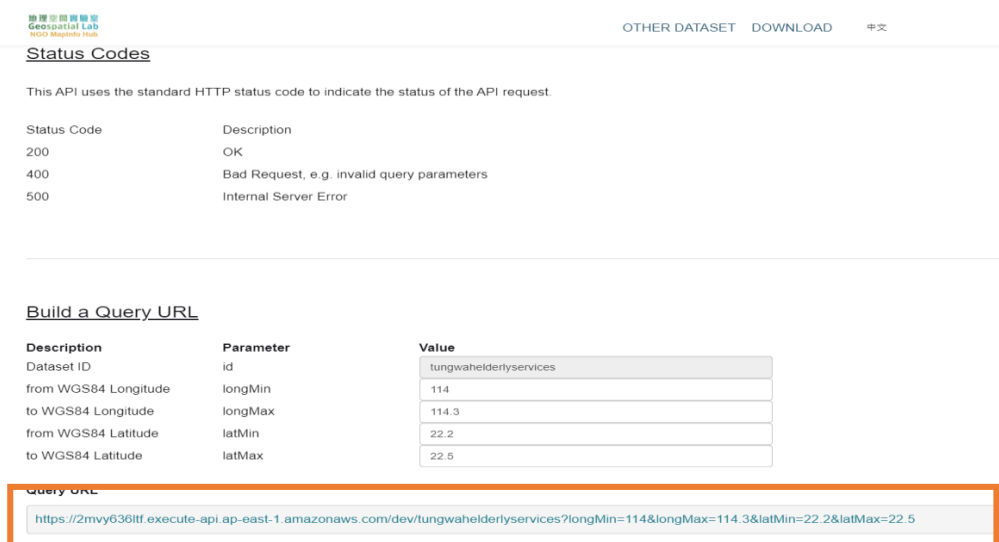
Query URL

<https://2mvy636lrf.execute-api.ap-east-1.amazonaws.com/dev/tungwahelderlyservices?>

Figure 14

### Step 4

1. User can then use the given query URL as shown on the interface to call the API library based on the entered values (Figure 15).



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OTHER DATASET DOWNLOAD 中文

#### Status Codes

This API uses the standard HTTP status code to indicate the status of the API request.

Status Code	Description
200	OK
400	Bad Request, e.g. invalid query parameters
500	Internal Server Error

#### Build a Query URL

Description	Parameter	Value
Dataset ID	id	tungwahelderlyservices
from WGS84 Longitude	longMin	114
to WGS84 Longitude	longMax	114.3
from WGS84 Latitude	latMin	22.2
to WGS84 Latitude	latMax	22.5

Query URL

<https://2mvy636lrf.execute-api.ap-east-1.amazonaws.com/dev/tungwahelderlyservices?longMin=114&longMax=114.3&latMin=22.2&latMax=22.5>

Figure 15

## 2.8 How to Search the Dataset?

User can input a keyword such as education and then click the “Search” button as shown in Figure 16 below. If there are lots of the datasets containing this keyword that meet this criteria in searching result, as shown in Figure 17, they all will be listed for user’s selection.

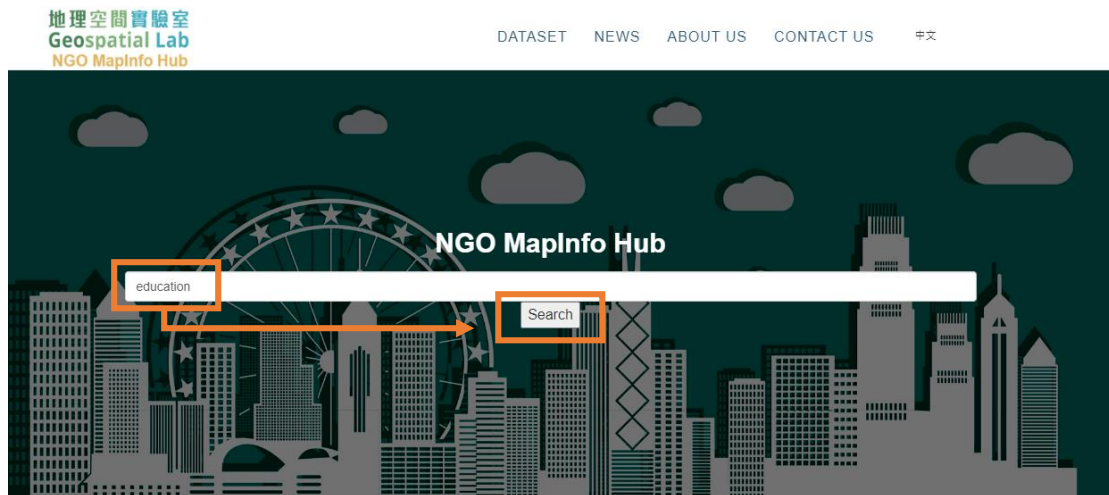


Figure 16

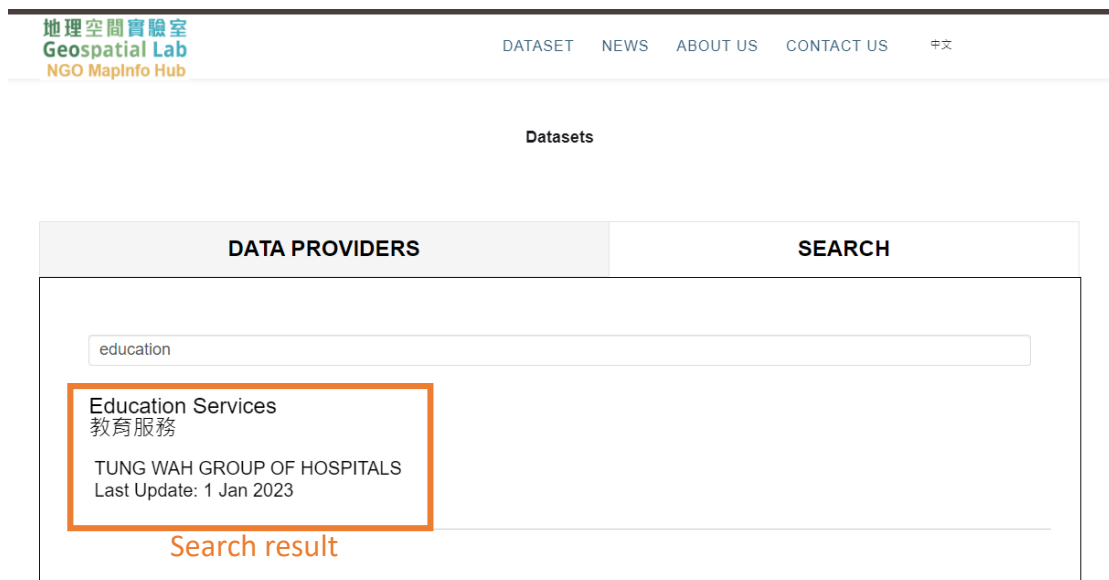


Figure 17

## 2.9 How to Leave a Message for Enquiry?

If user would like to leave a message for enquiry or make comments on the GIS API library or/and relevant datasets, he/she is welcome to do so by clicking the “Contact us” button on the main menu. As shown in Figure 18 and Figure 19, an interface will be displayed for user to leave the message. He/she has to fill in his/her name, email and required message and type correct Captcha before clicking the “Submit” button.

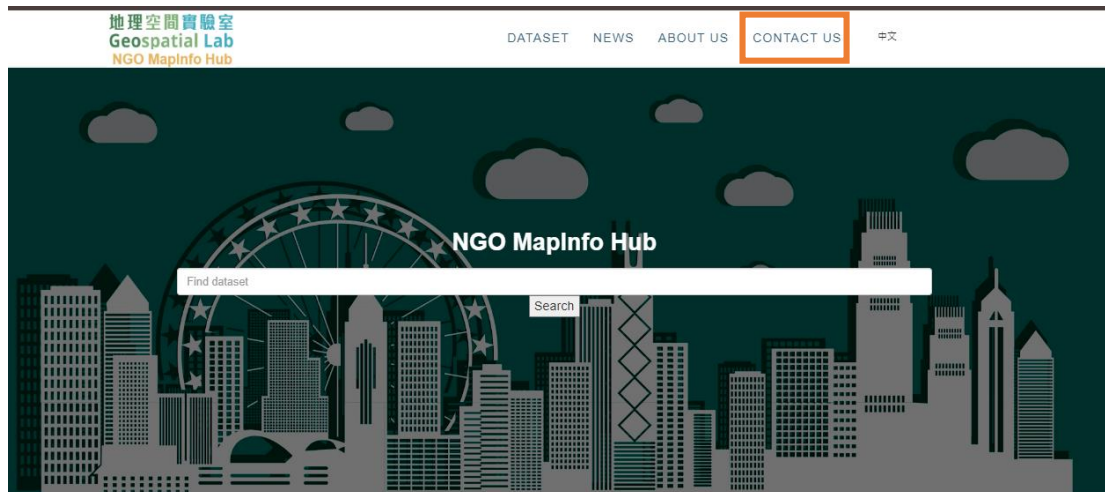


Figure 18

Figure 19

Upon receiving the message, the website will send it by email to the GeoLab’s responsible officer for follow-up action.