

課程主要介绍 **Matlab** 的繪圖應用。

1. 以實例逐一介绍最常用之指令
2. 二维 **X-Y** 繪圖
3. 三维(**X-Y-Z**)繪圖
4. 等值線及彩色等值圖之繪畫
5. 每週一個程式撰寫及繪圖作業

Useful Websites:

1. <http://podaac.jpl.nasa.gov>
2. <http://www.mathworks.com>
3. <https://www.coas.ubc.ca/~rich/>
4. <http://woodshole.er.usgs.gov/staffpages/rsignell/rsignell.html>
5. <http://www.ngdc.noaa.gov/mgg/shorelines/shorelines.html>
6. <http://www.nodc.noaa.gov/>
7. <http://gmt.soest.hawaii.edu/>
8. <http://sea-mat.whoi.edu/>


羅老師個人網站 <ftp://140.121.165.44>

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進入 NOAA 網站

點擊 [GEODAS software tool](#)，再點 [Download GEODAS-NG Software Ver 1.1.3 \(installation instructions\)](#) 下載，並執行。


點擊 [Download GSHHG data version 2.3.7 \(June 15, 2017\) \(Access Older versions\)](#)

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Coastline Extractor is no longer available, please use the [GEODAS software tool](#)

Related Links

[NOAA Shoreline Data](#)
[NOAA Shoreline Data Explorer](#)
[CIA World DataBank II \(Rivers and Political Boundaries\)](#)

Shoreline / Coastline Resources

Global Self-consistent, Hierarchical, High-resolution Geography Database (GSHHG) is a high-resolution geography data set, amalgamated from two databases: World Vector Shorelines (WVS) and CIA World Data Bank II (WDDBII). The former is the basis for shorelines while the latter is the basis for lakes, although there are instances where differences in coastline representations necessitated adding WDDBII islands to GSHHG. The WDDBII source also provides political borders and rivers. GSHHG data have undergone extensive processing and should be free of internal inconsistencies such as erratic points and crossing segments. The shorelines are constructed entirely from hierarchically arranged closed polygons.

GSHHG combines the older GSHHS shoreline database with WDDBII rivers and borders, available in either ESRI shapefile format or in a native binary format. Geography data are in five resolutions: crude(c), low(l), intermediate(i), high(h), and full(f). Shorelines are organized into four levels: boundary between land and ocean (L1), boundary between lake and land (L2), boundary between island-in-lake and lake (L3), and boundary between pond-in-island and island (L4). Datasets are in WGS84 geographic (simple latitudes and longitudes decimal degrees).

GSHHG is released under the [GNU Lesser General Public license](#), and is developed and maintained by Dr. Paul Wessel, SOEST, University of Hawai'i, and Dr. Walter H. F. Smith, NOAA Laboratory for Satellite Altimetry. Please notify Dr. Paul Wessel and Dr. Walter H.F. Smith if any changes are made to the GSHHG data set for commercial use.

- [Download GSHHG data version 2.3.7 \(June 15, 2017\) \(Access Older versions\)](#)
GSHHG data are also available at: [SOEST server](#). See [readme.txt](#) documentation.


Processing and assembly of the GSHHG data:
Wessel, P., and W. H. F. Smith (1996), A global, self-consistent, hierarchical, high-resolution shoreline database, J. Geophys. Res., 101(B4), 8741–8743, doi:10.1029/96JB00104.

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Questions: ncei.info@noaa.gov

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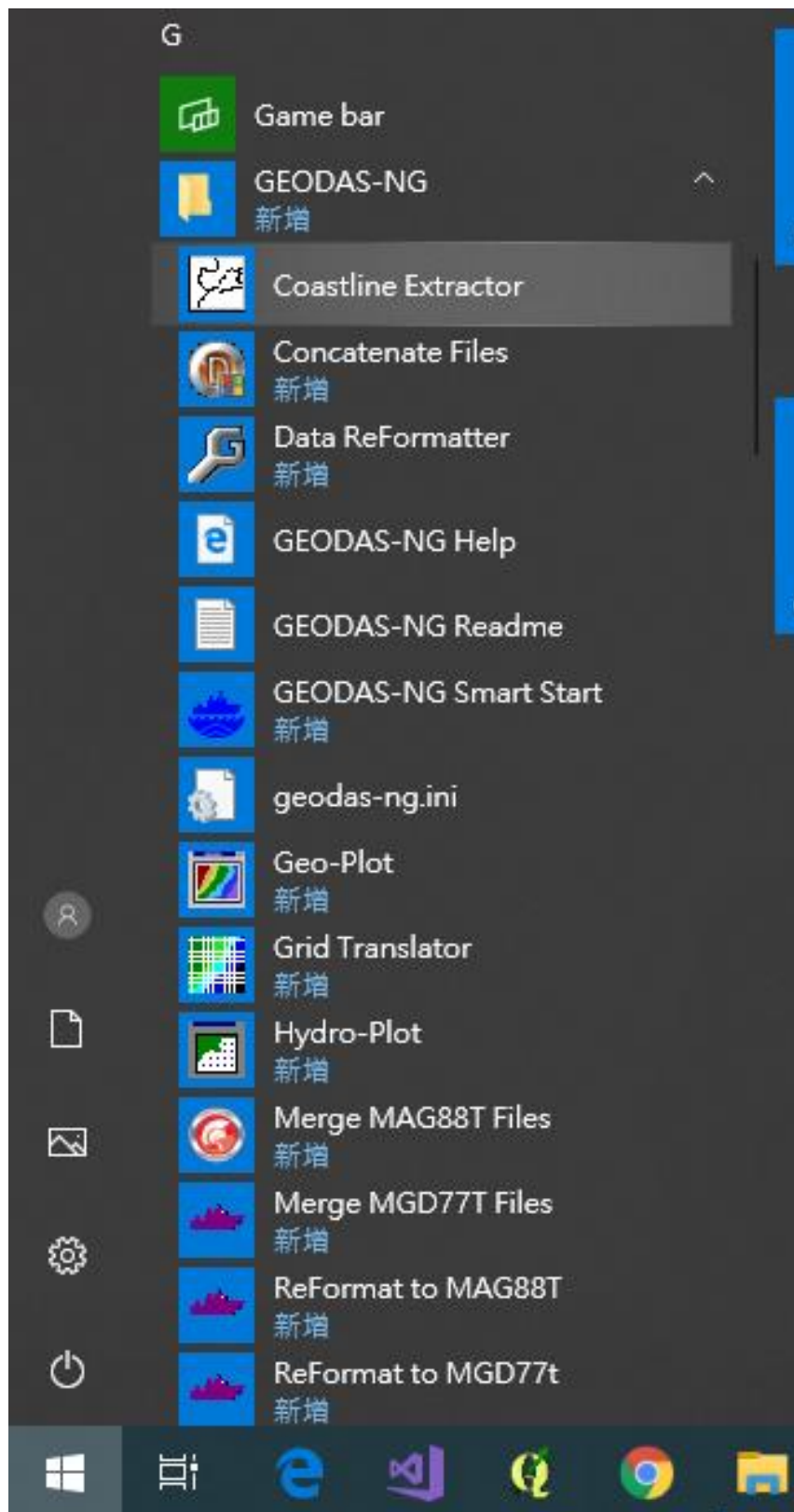
點選 gshhg-shp-2.3.7.zip 檔案，下載並解壓縮

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Name	Last modified	Size
Parent Directory		-
gshhg-bin-2.3.7.zip	2018-03-02 18:42	113M
gshhg-gmt-2.3.7.tar.gz	2018-03-02 18:42	54M
gshhg-shp-2.3.7.zip	2018-03-02 18:42	142M
readme.txt	2018-03-02 18:42	15K

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作業 1：寄到 lo@mail.ntou.edu.tw 圖形檔、繪圖指令、寫名字和學號

圖形用 print JPG 儲存

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到羅老師網站下載: plot_KL.m 還有 land_data.rar