臺灣 Vs30分佈圖

Vs30 MAP OF TAIWAN

中華民國九十六年 (2007)

比例尺 四十萬分之一

SCALE 1:400,000

0 10 20 30 40 50 公里 (Kilometers)

投影：橫麥卡脫投影，經差二度分帶，中央經線 121° (TWD67)

Projection:2-degree Zone Transverse Mercator Projection (TM2), Central Meridian:121°E

中央大學地球科學學院
應用地質研究所
工程地質與防災科技研究室 製圖

Prepared by:
Engineering Geology and Natural Hazard Research Laboratory,
Graduate Institute of Applied Geology,
National Central University, Taiwan.

120° 121° 122°

25° 24° 23° 22°

台灣海峽 Taiwan Strait

太平洋 Pacific Ocean

Penhu Islands 澎湖列島

Liouciouyu 琉球嶼

Lyudao 綠島

圖 例 LEGEND

- 已完成調查之測站 Strong-motion Stations Investigated
- Geo2005 鑽孔 Boreholes in Geo2005 Database

Vs30 (m/s)	Site Class
>760	B
620~760	C3
490~620	C2
360~490	C1
300~360	D3
240~300	D2
180~240	D1
<180	E
No data	

Vs30等值線間距 Contour Interval

180~240m/s : 10m/s
240~360m/s : 20m/s
360~720m/s : 65m/s

- 鐵路 Railorads
- 國道 Highways
- 道路 Roads
- 縣市界 County Boundary
- 水系 Drainage
- 湖泊 Lake
- 城鎮 Town

Notes:

1. Data for construction of this map include in-situ S-wave velocity (Vs) measurements in each borehole at 256 strong-motion stations and standard penetration tests (SPT-N) in other 4,904 boreholes where Vs are not available.
2. Only good quality S-wave velocity measurement data are used to establish the relationship between Vs and SPT-N and calculation of Vs30.
3. For engineering borings, only those with hole-depth greater or equal to 30 meters were used in mapping.
4. Vs30 for a strong-motion station was used as primary variable, and Vs30 for other borehole was used as secondary variable in the Kriging with varying local means method.
5. Miocene and older strata were all mapped as rock (Vs>760m/s) in this map.
6. Original data of boreholes at strong-motion stations and S-wave velocity measurements are provided by Central Weather Bureau, Taiwan, and data of engineering borings are coming from Geo2005 database of Central Geological Survey, Taiwan.

7. This research was supported by NSC95-2119-M-008-029 grants.