

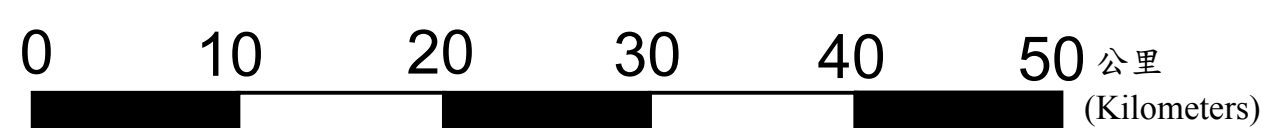
# 臺灣 Vs30分佈圖

## 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



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

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台灣海峽  
Taiwan Strait

太平洋  
Pacific Ocean

### 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 Railroads
- 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 ( $V_s$ ) measurements in each borehole at 256 strong-motion stations and standard penetration tests (SPT-N) in other 4,904 boreholes where  $V_s$  are not available.
2. Only good quality S-wave velocity measurement data are used to establish the relationship between  $V_s$  and SPT-N and calculation of  $V_s30$ .
3. For engineering borings, only those with hole-depth greater or equal to 30 meters were used in mapping.
4.  $V_s30$  for a strong-motion station was used as primary variable, and  $V_s30$  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 ( $V_s > 760$  m/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.