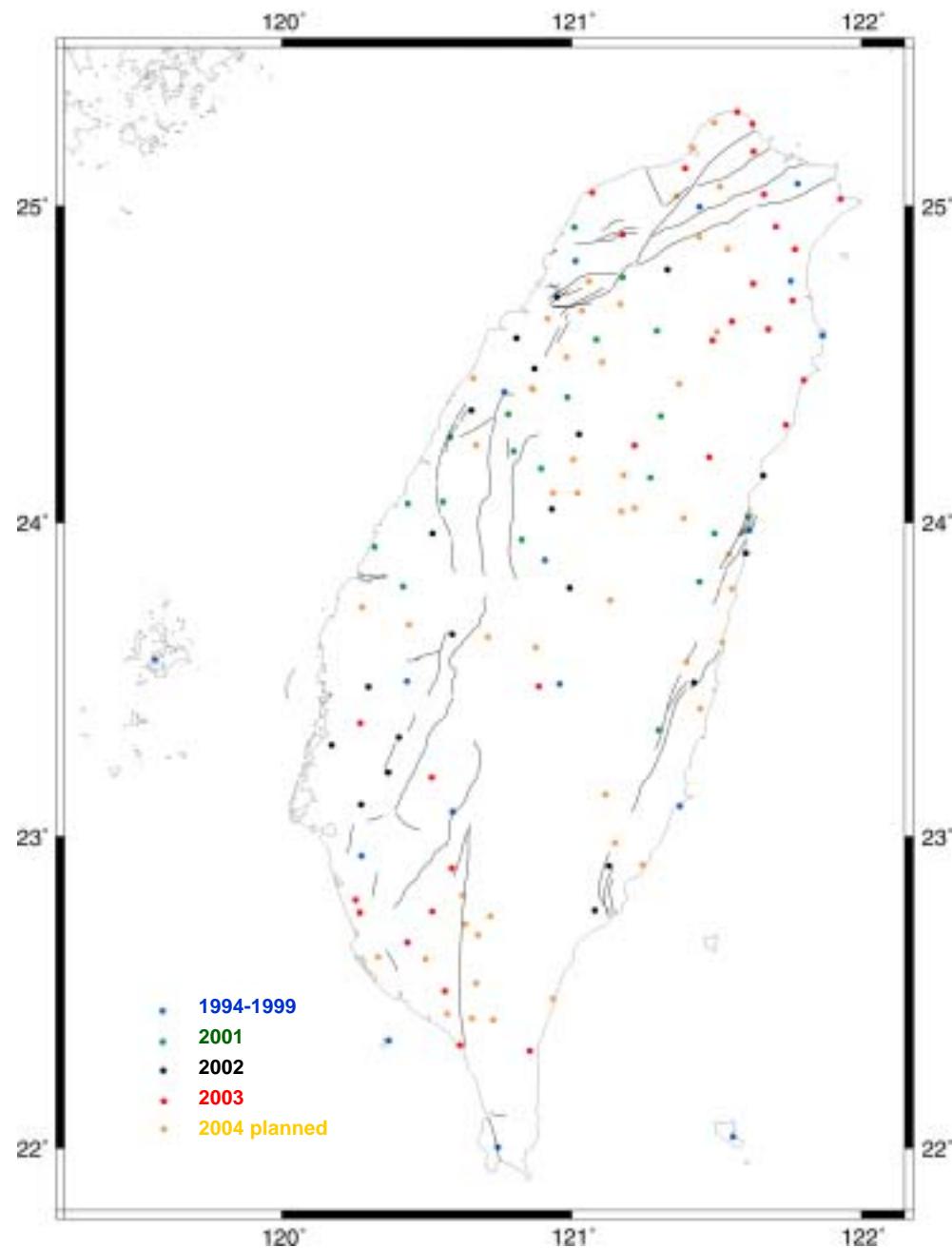
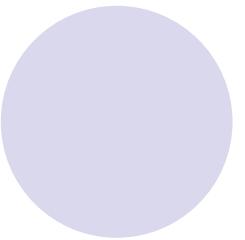
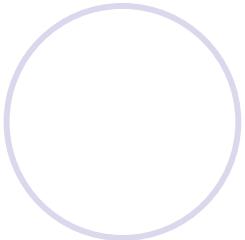
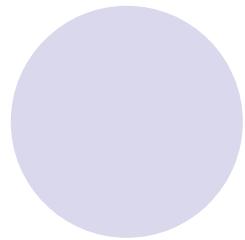
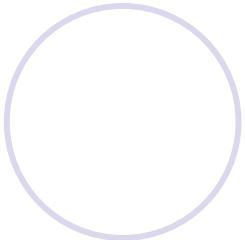
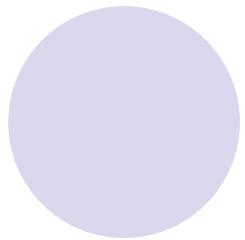


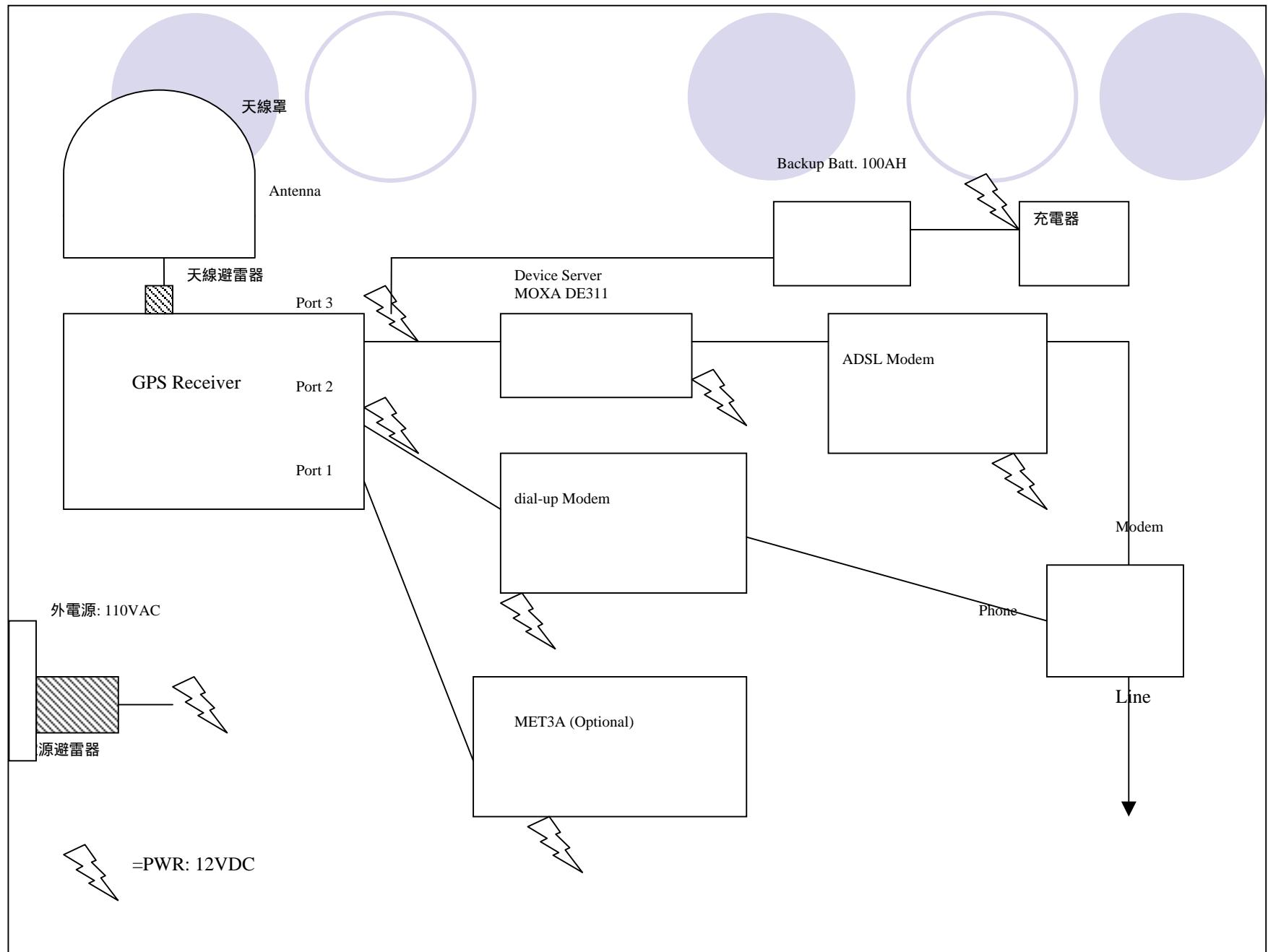
GPS and Groundwater Observations on Precursor Studies in Taiwan

- Tsai Chun-Hsiung

CWB GPS stations

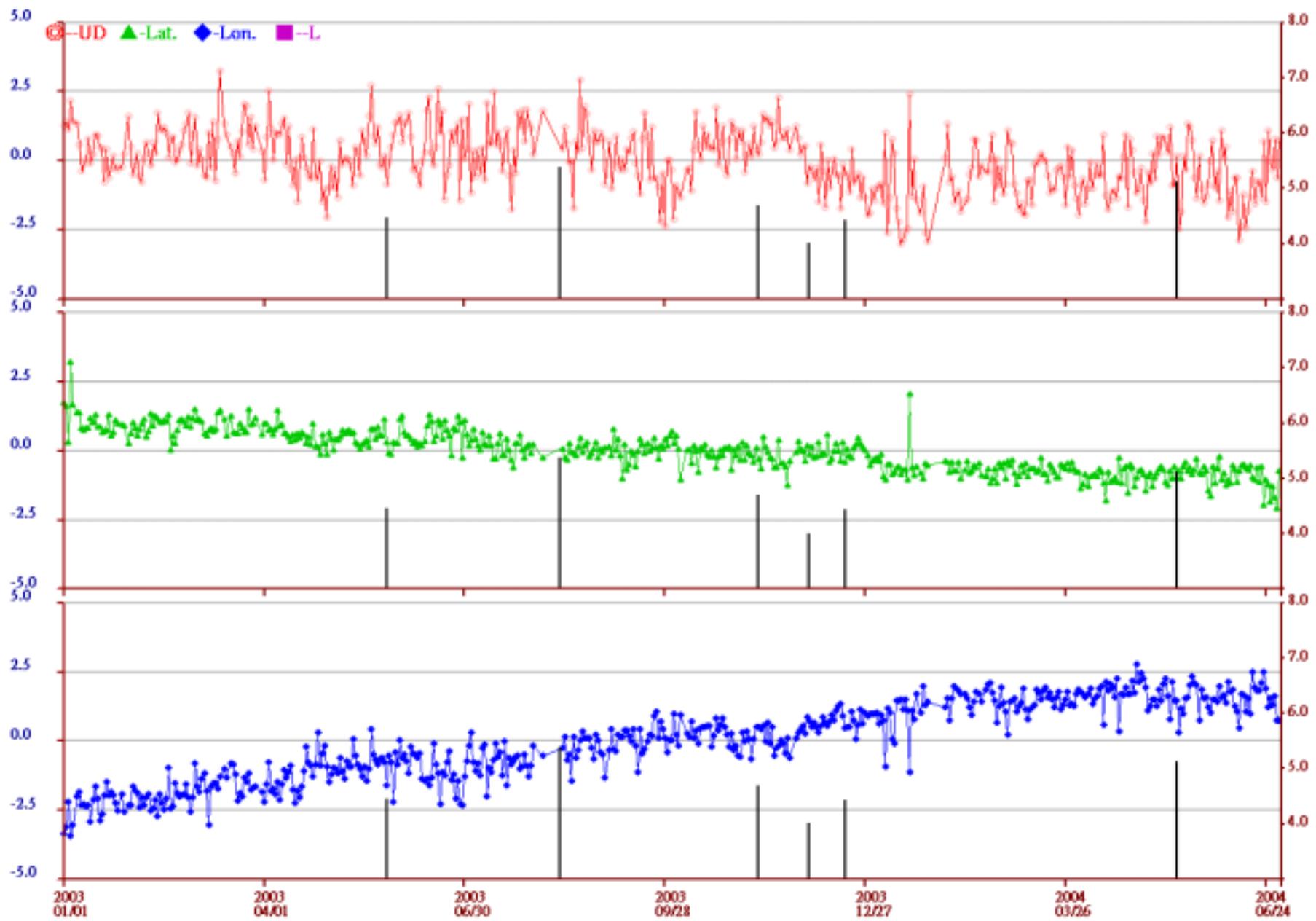






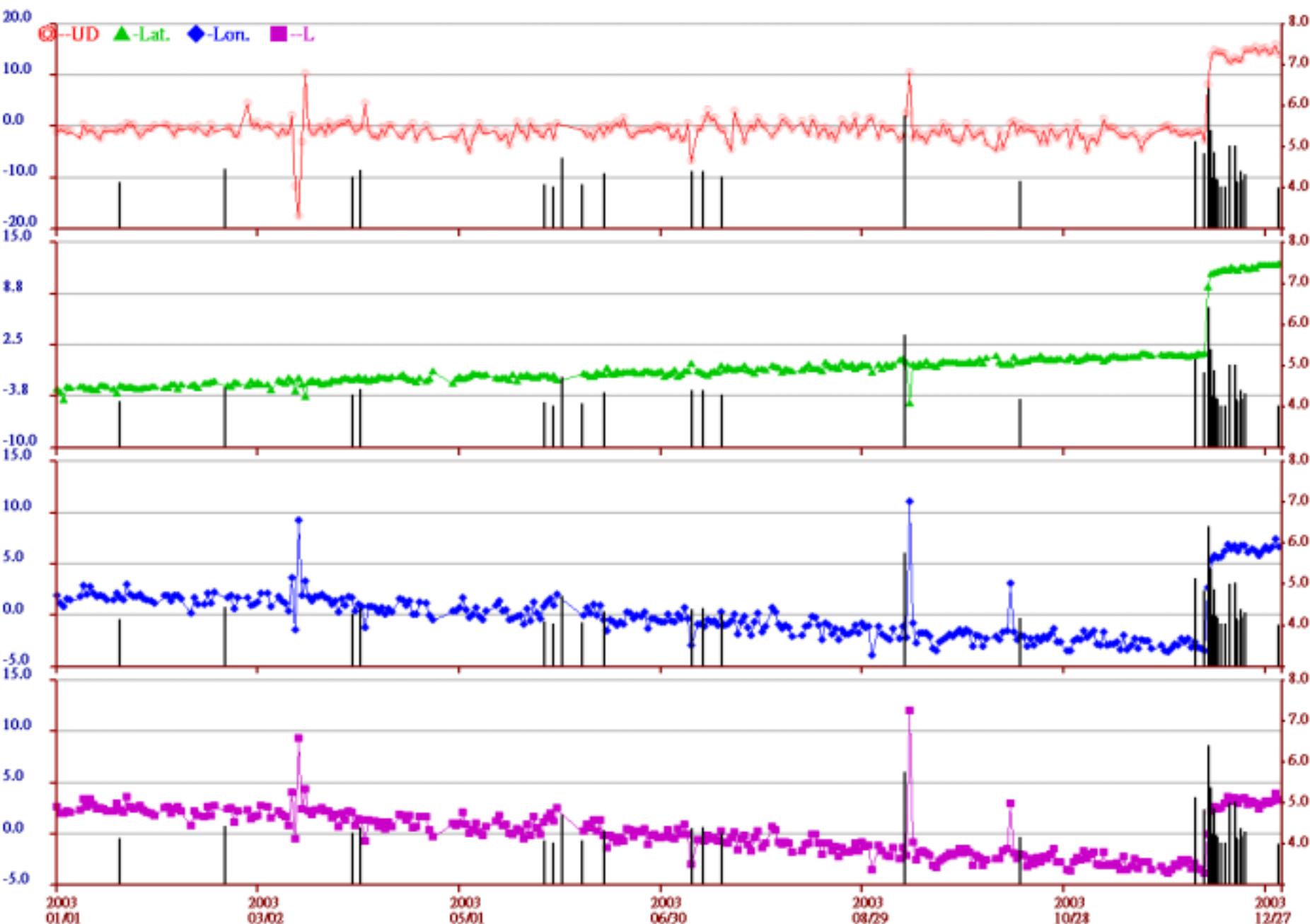


BANC台北 ; 2-Remove Averaged

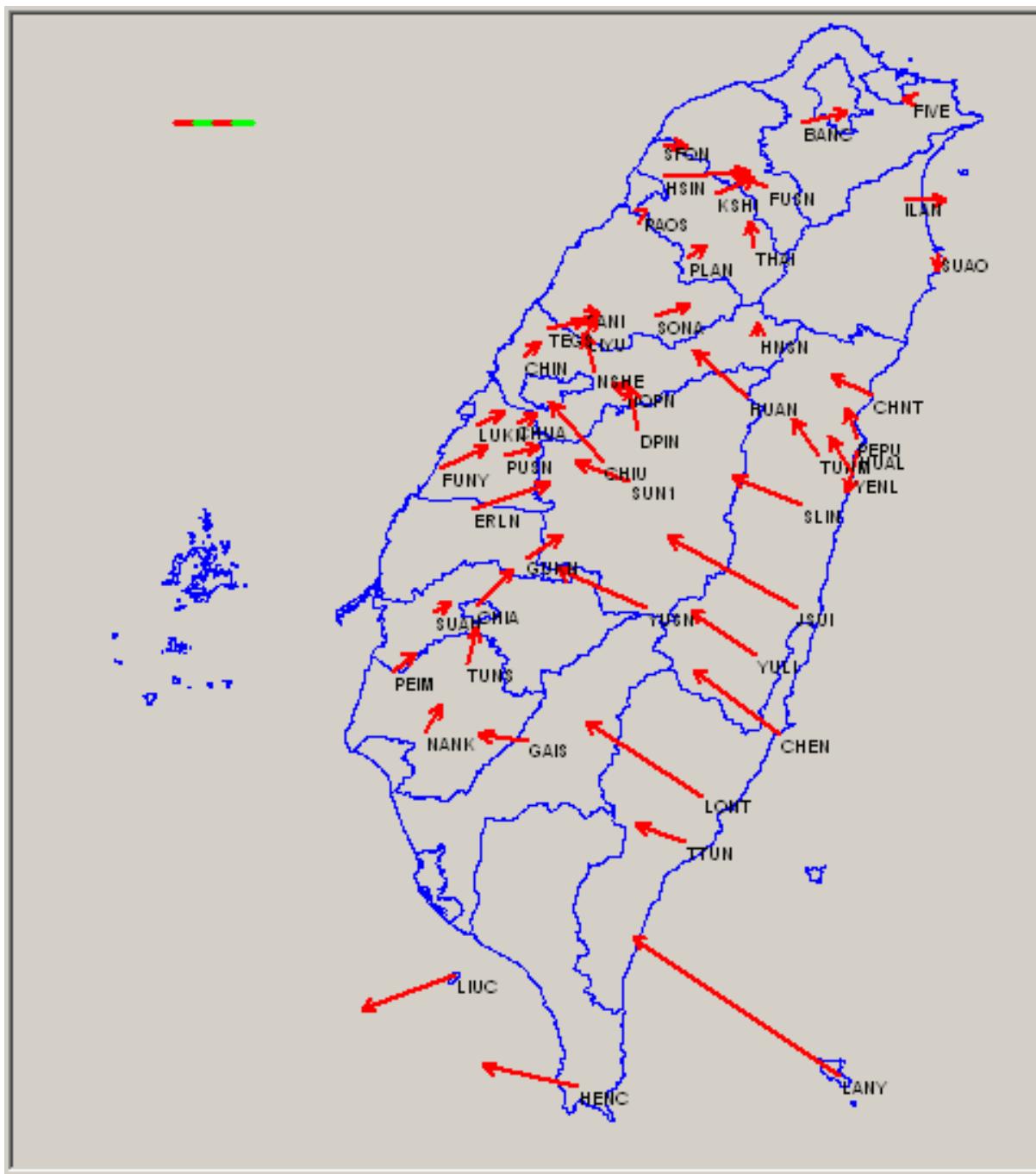


20030101-20040630 daily solution

PANG澎湖-CHEN成功 ; 2-Remove Averaged



20030101-20031231 daily solution



CWB GPS NETWORK

120°

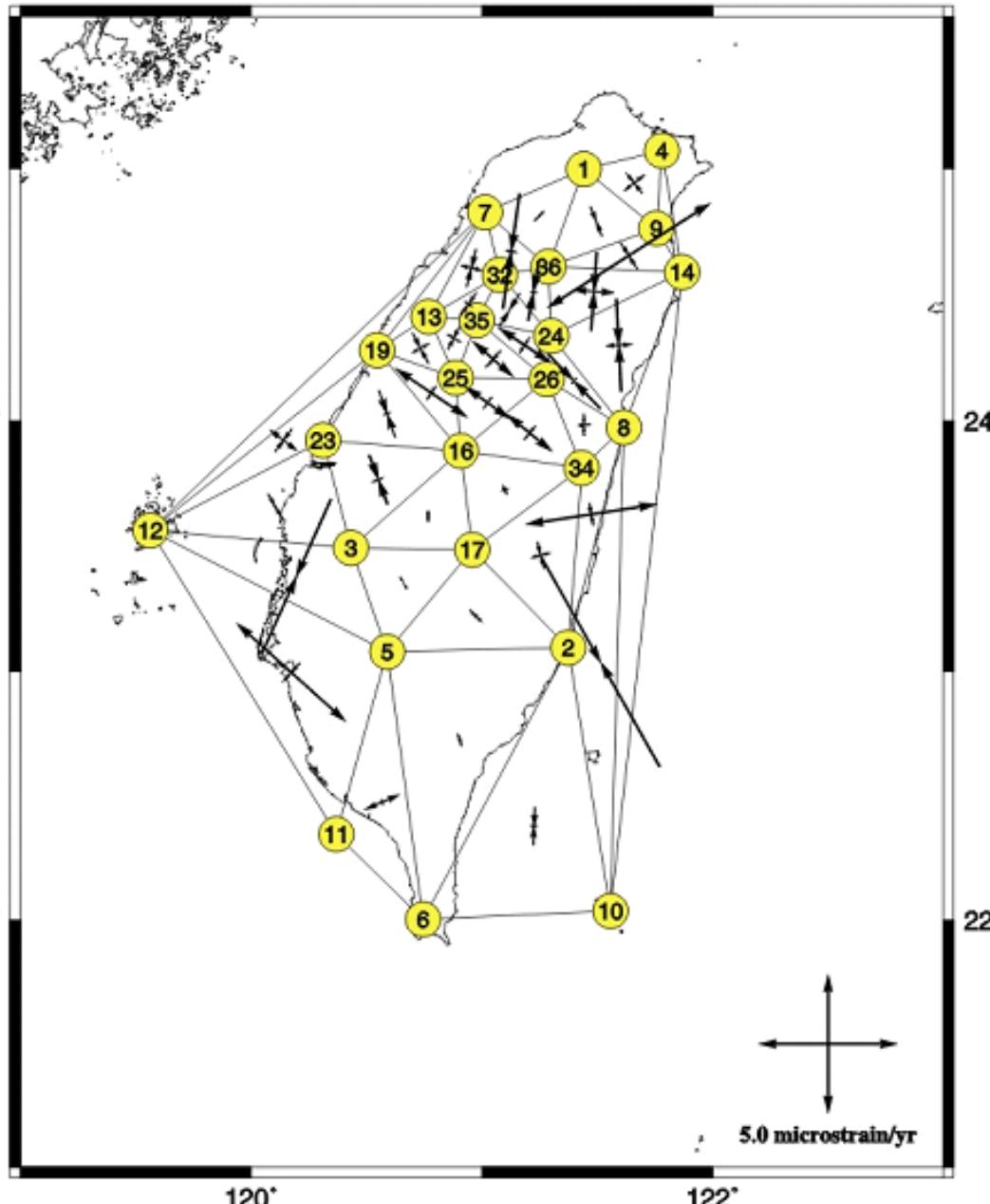
122°

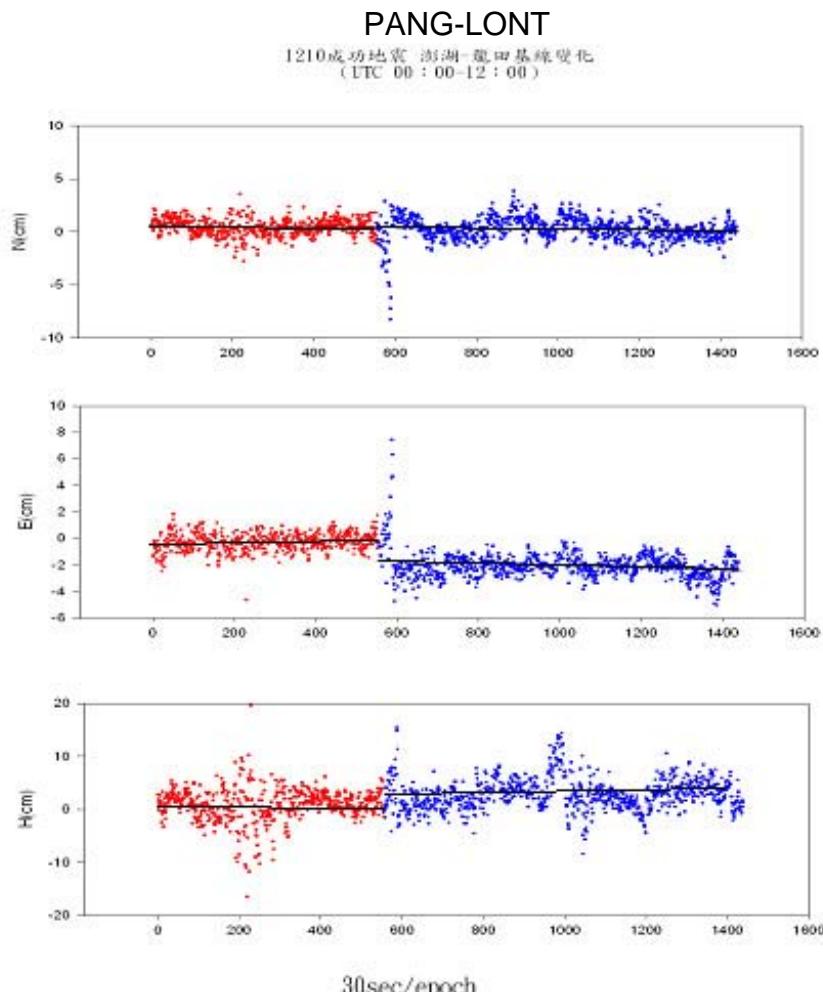
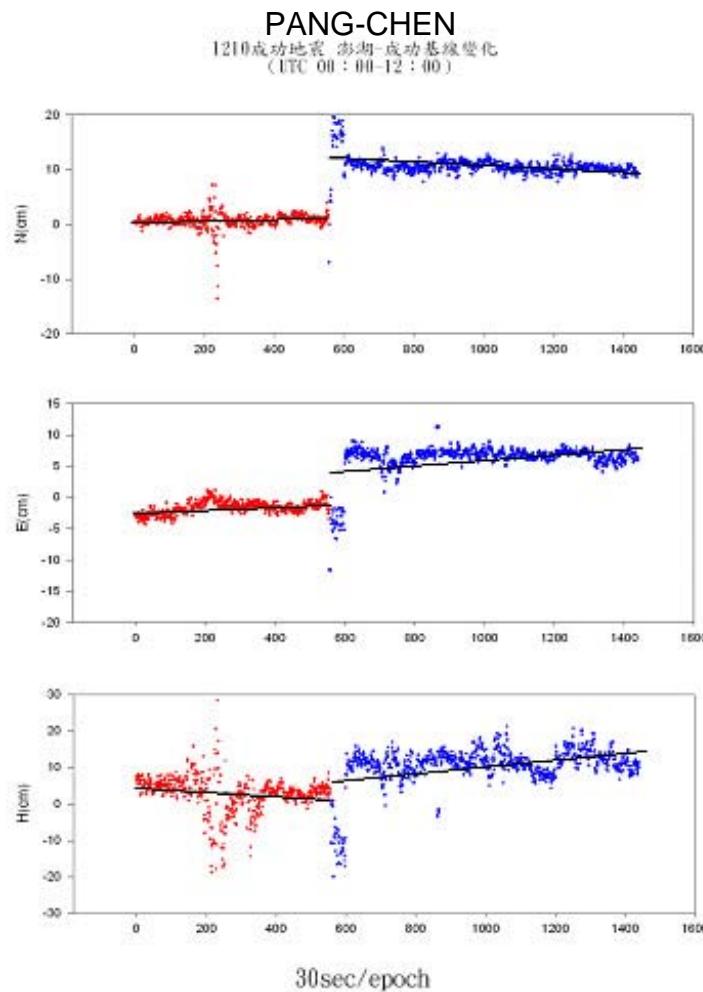
24°

24°

22°

22°

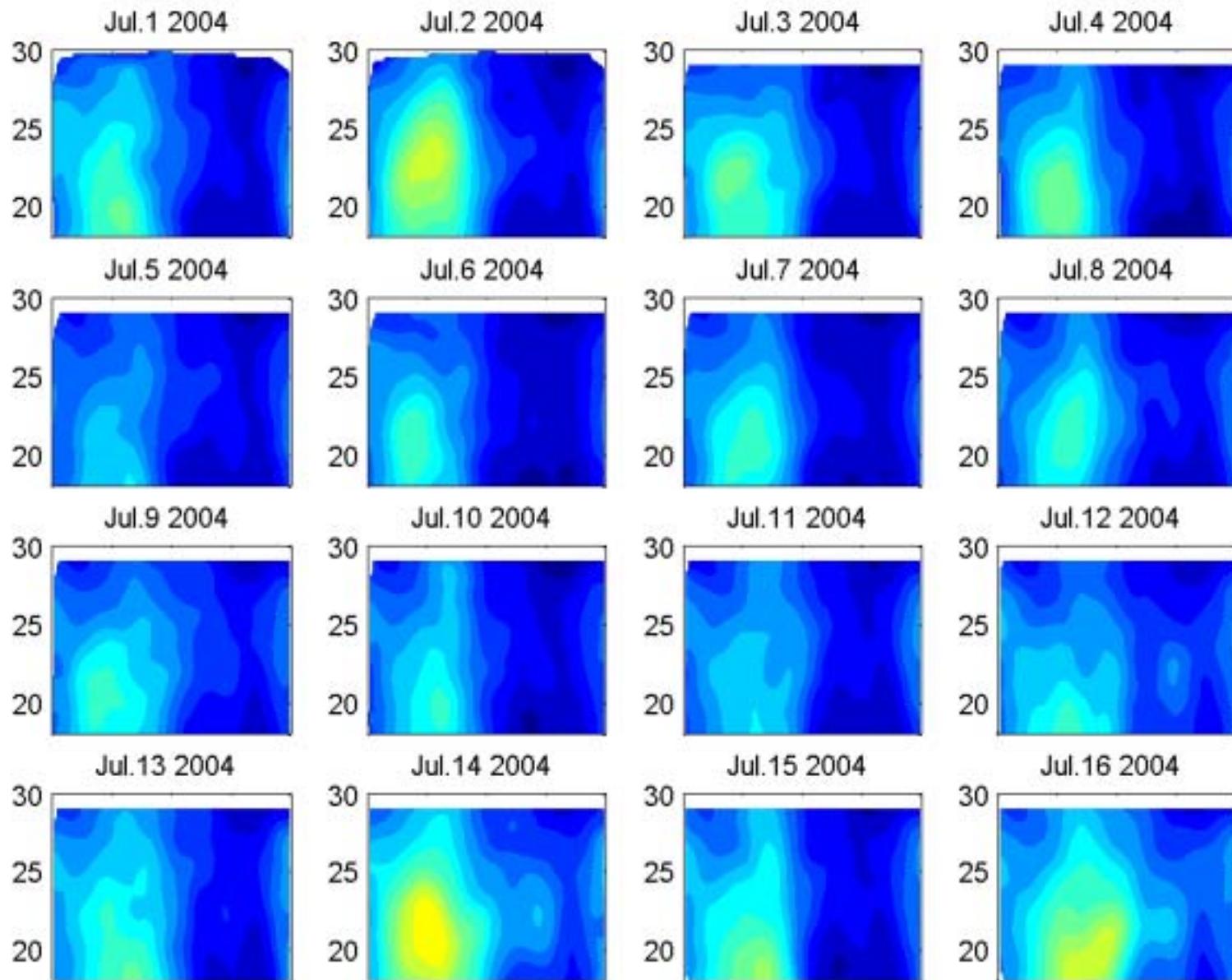


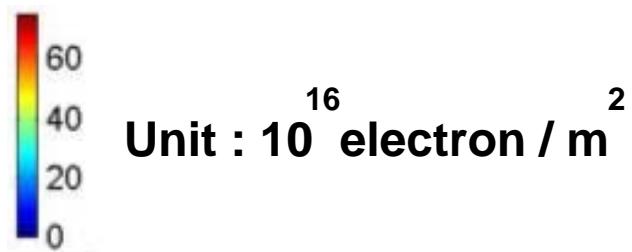
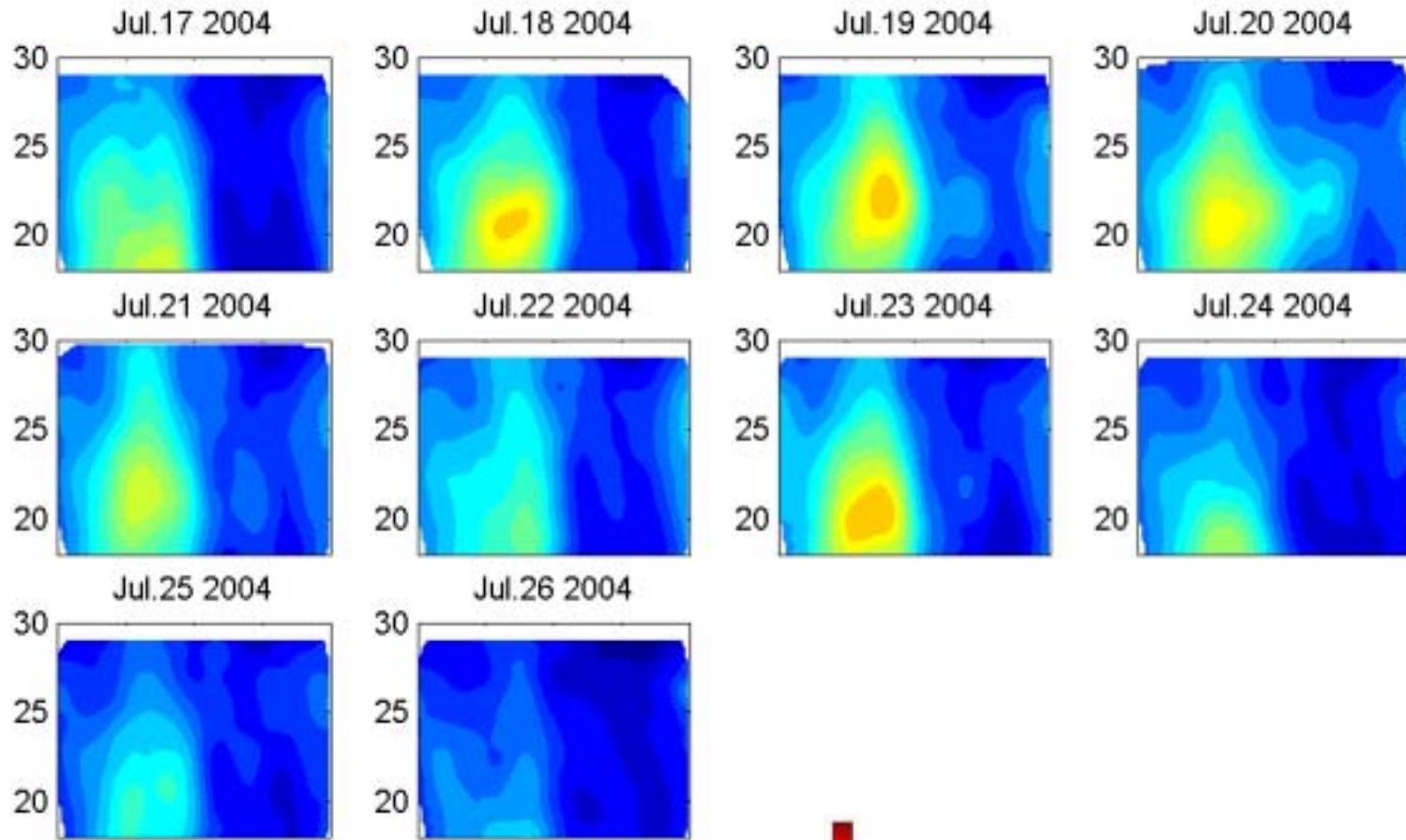


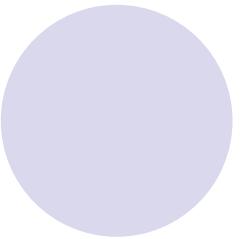
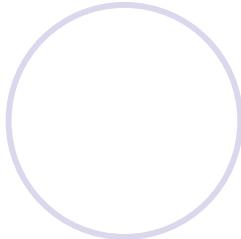
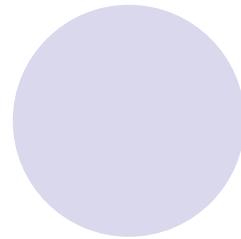
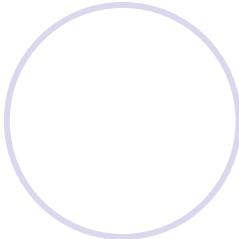
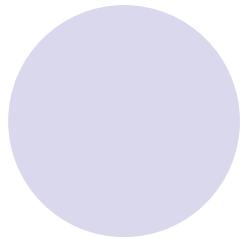
2003/12/10 Cheng-Kung EQ epoch by epoch solutions

Ionospheric Total Electron Content

July, 2004 Ionospheric Total Electron Content Latitude-Time-Tec

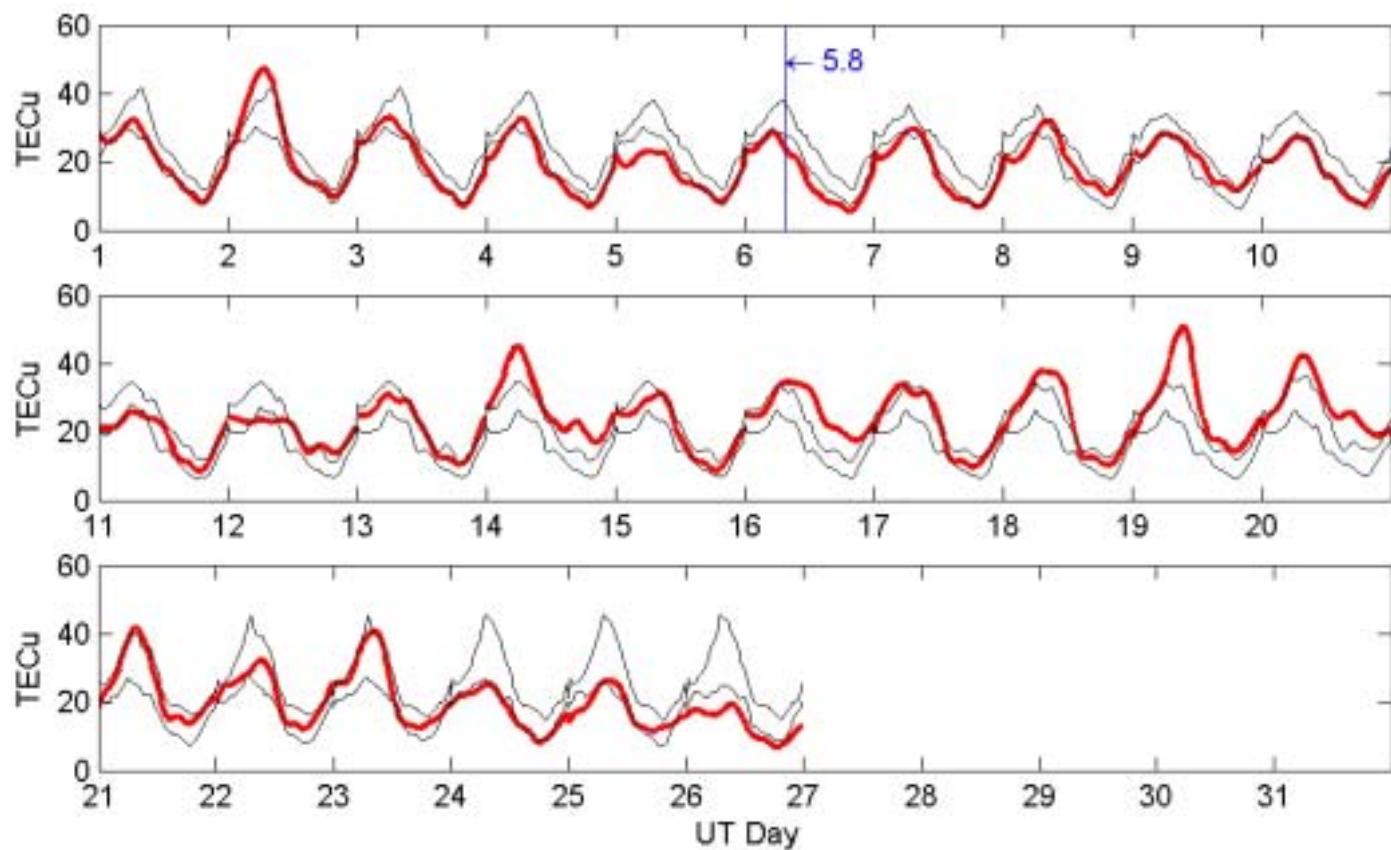
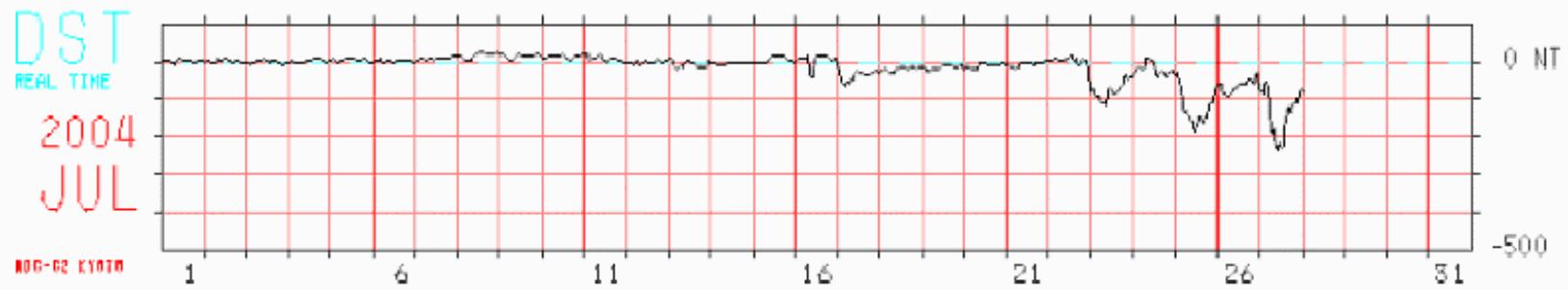




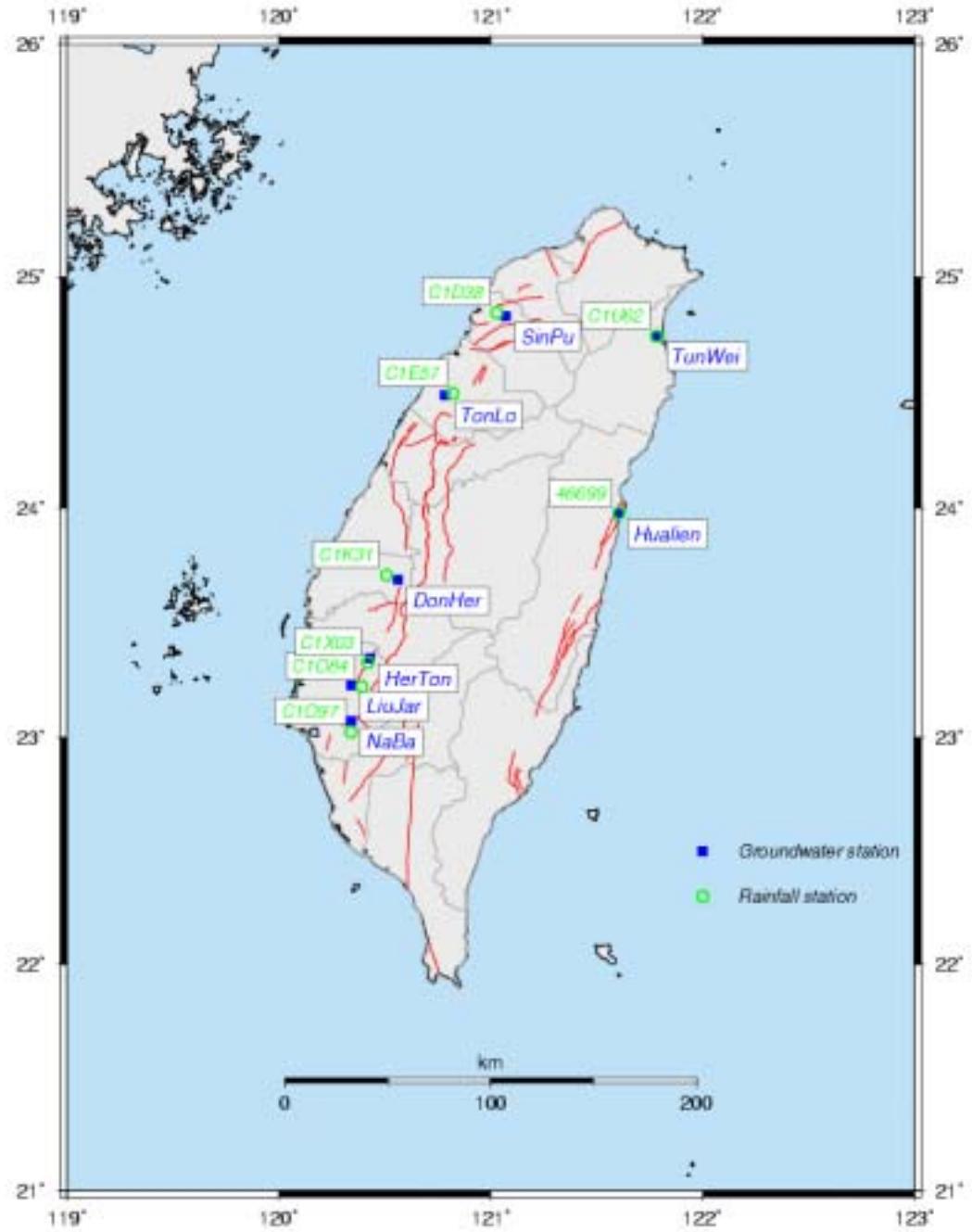


- Today and the past fifteen days
- In sequence $X_{(1)} < X_{(2)} < \dots < X_{(16)}$
- $Q1 = (X_{(4)} + X_{(5)}) / 2$
- $Q3 = (X_{(12)} + X_{(13)}) / 2$
- median $Q2 = (X_{(8)} + X_{(9)}) / 2$
- $IQR = Q3 - Q1$
- Upper bound = $Q2 + IQR$
- Lower bound = $Q2 - IQR$

July, 2004 Ionspheric Total Electron Content at 24° N



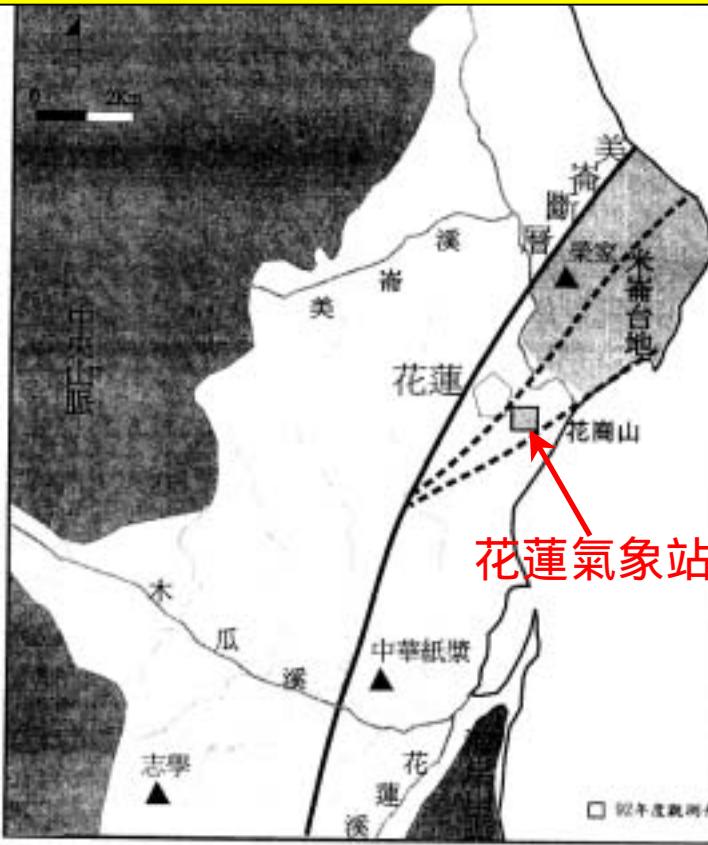
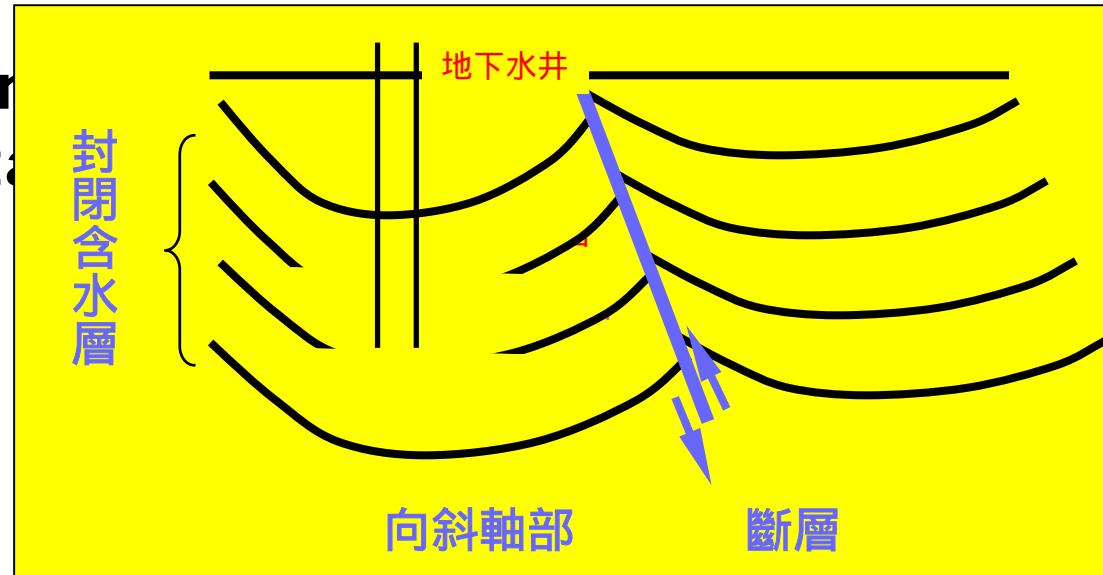
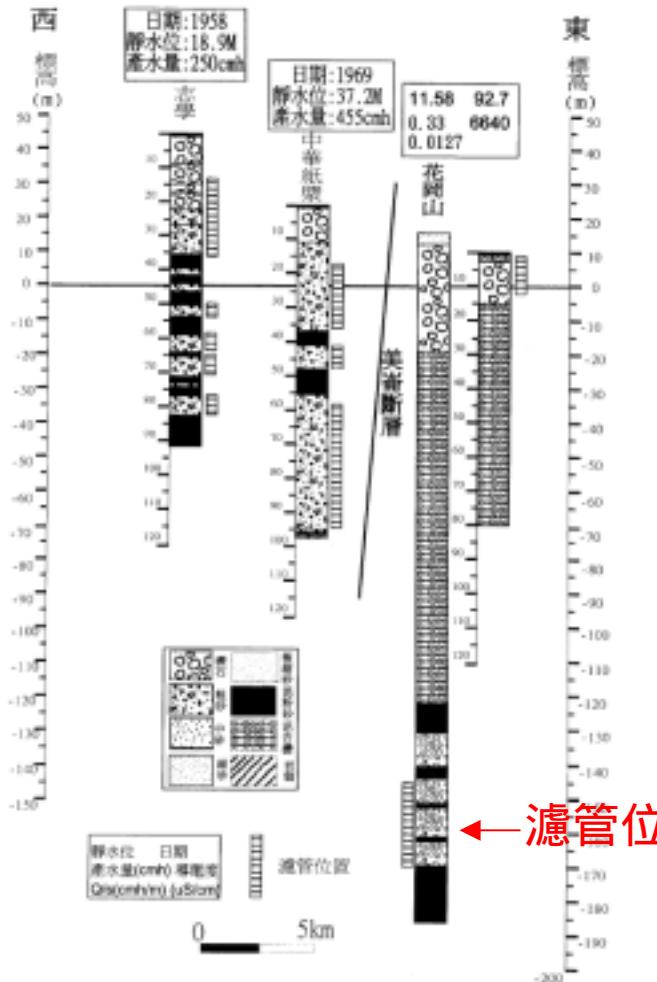
Ground Water Observation



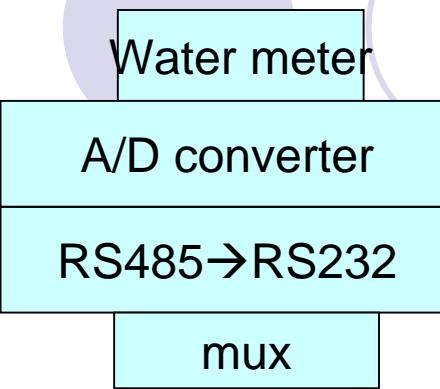
Hualien Groundwater real-time observation station



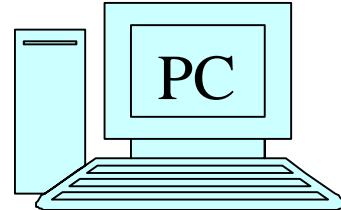
Hydro-geological environment Hualien ground water station



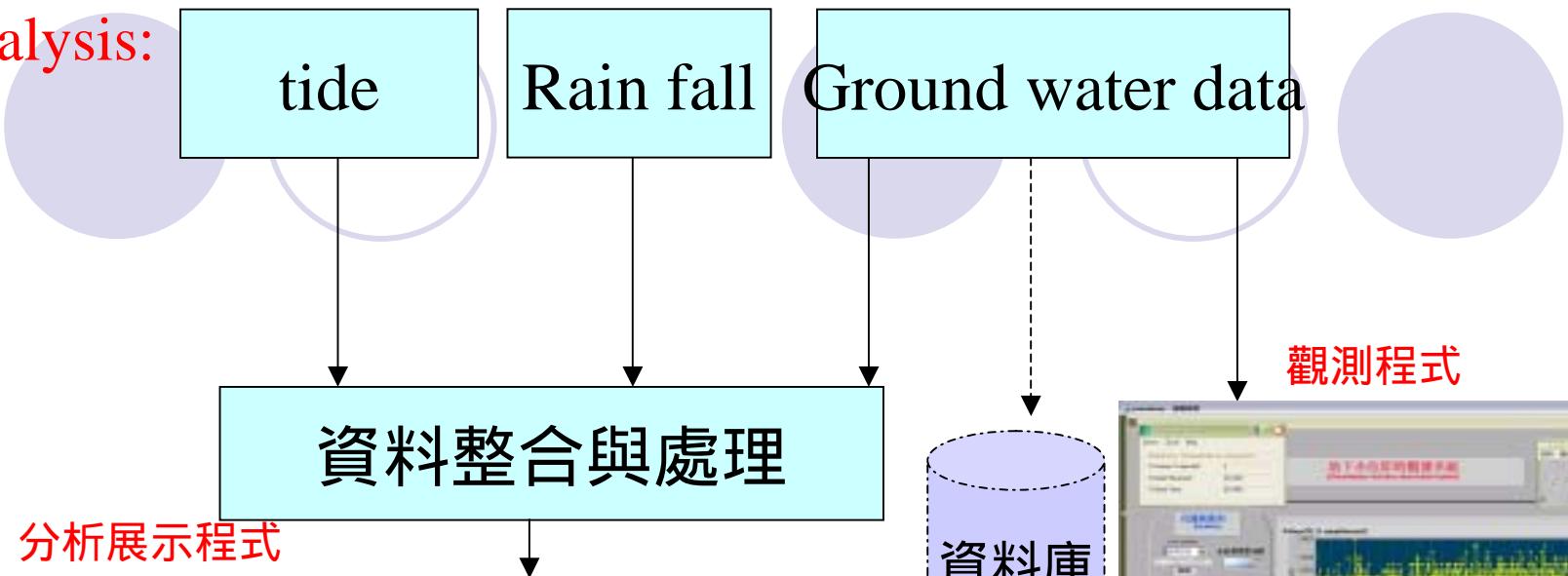
Hare ware configuration:



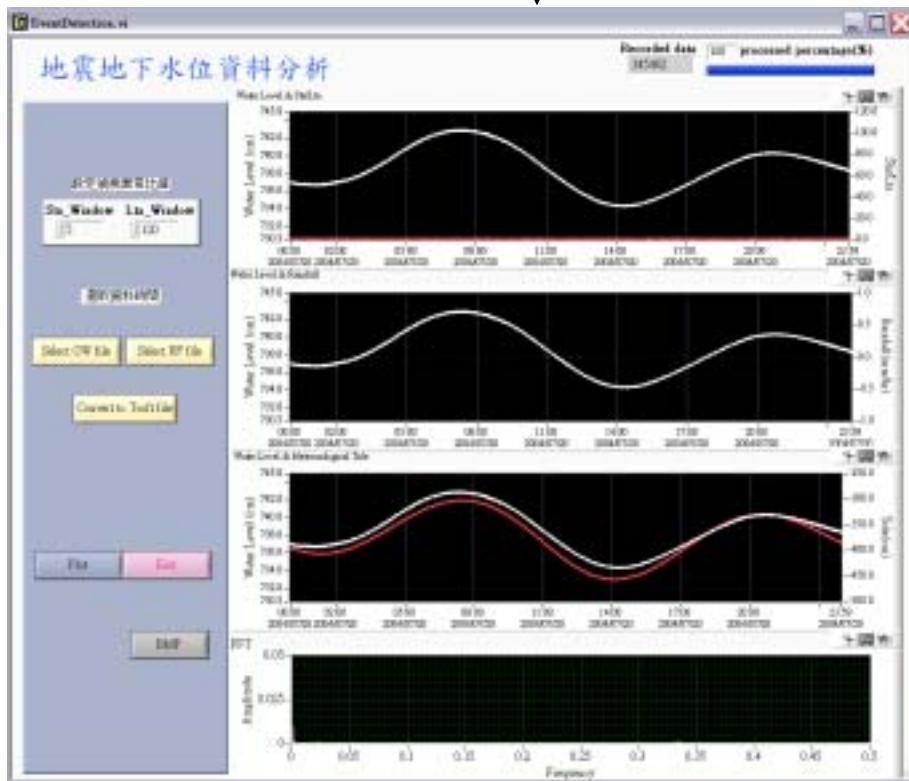
Leased line



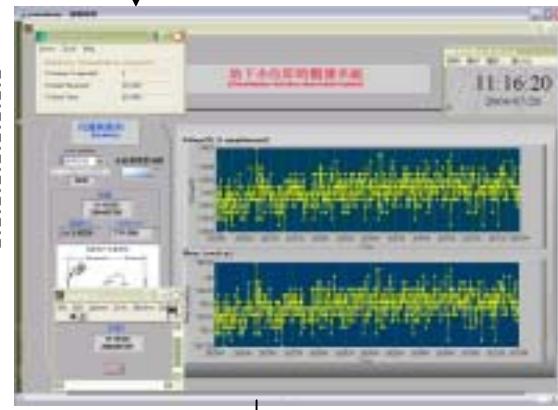
Data analysis:



分析展示程式

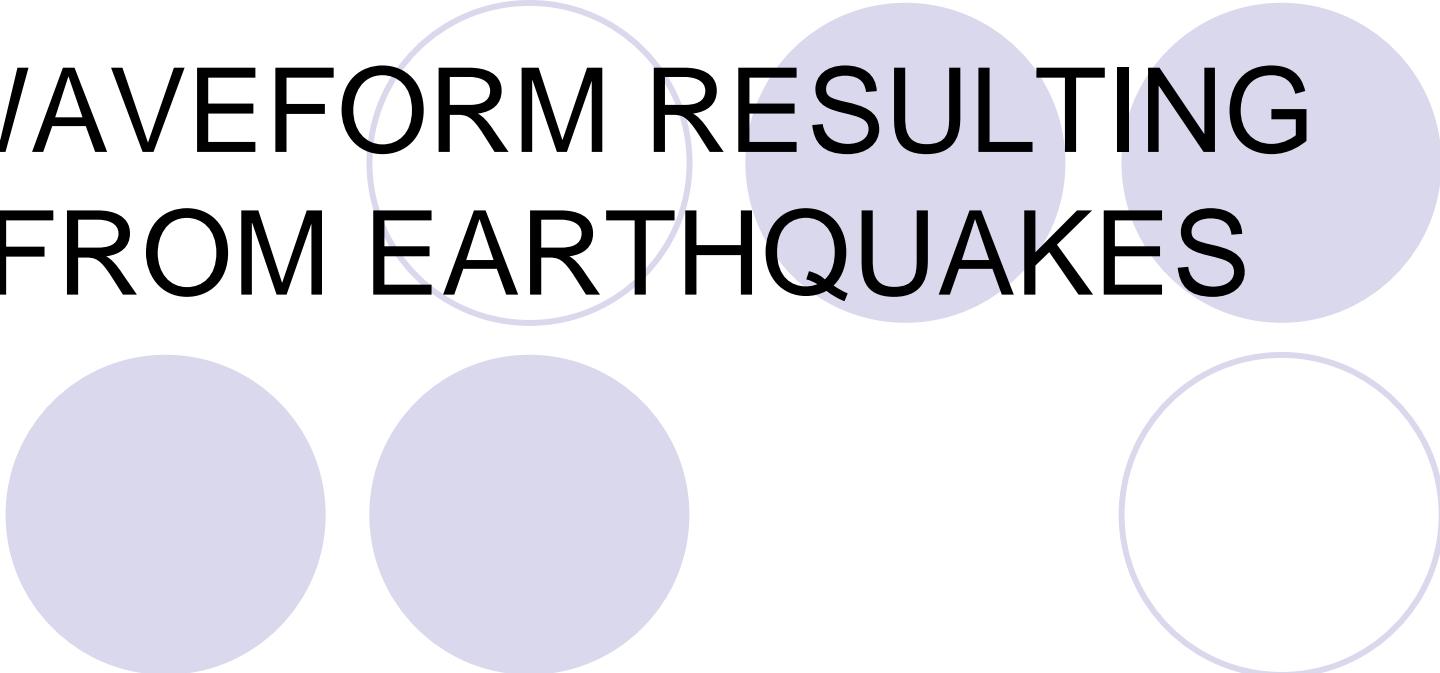


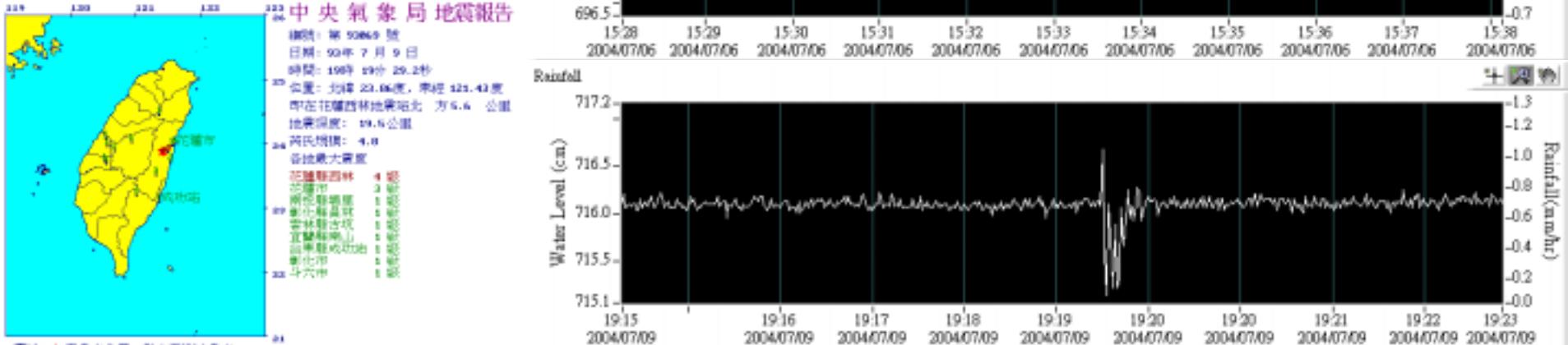
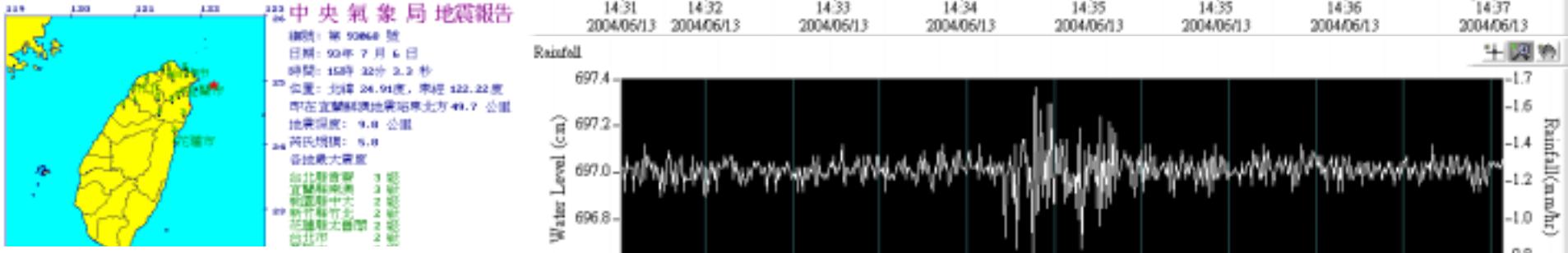
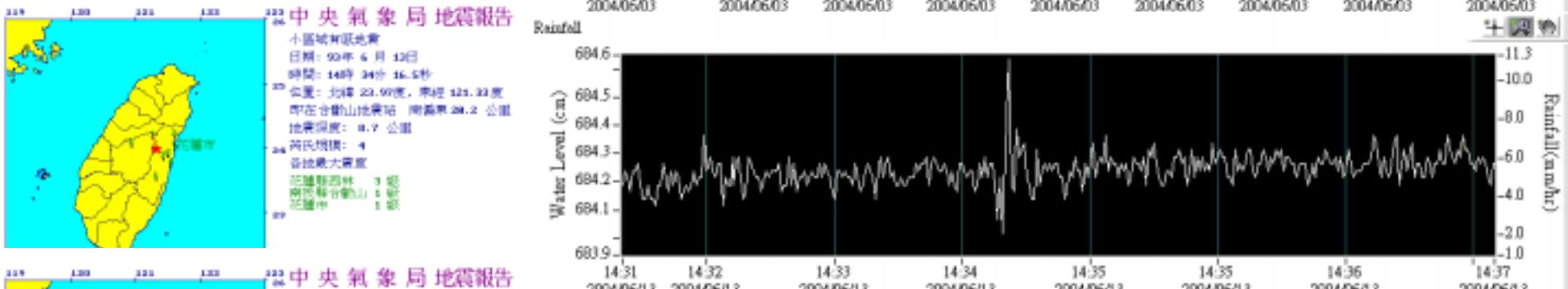
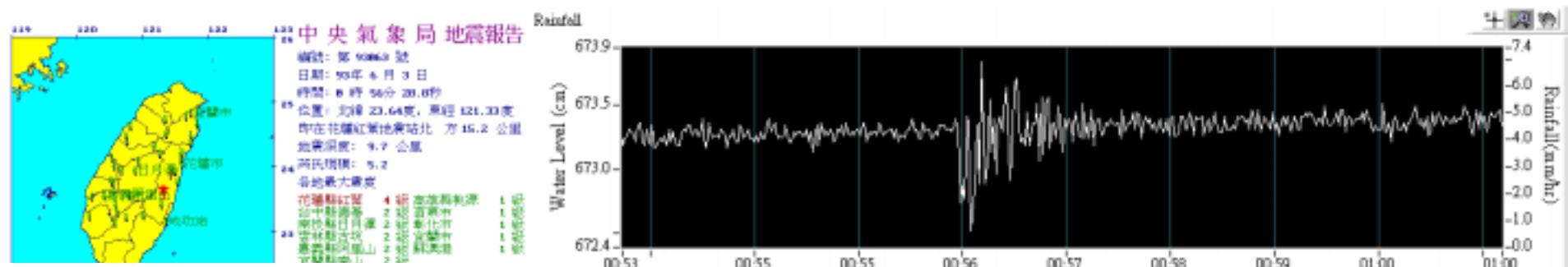
資料庫

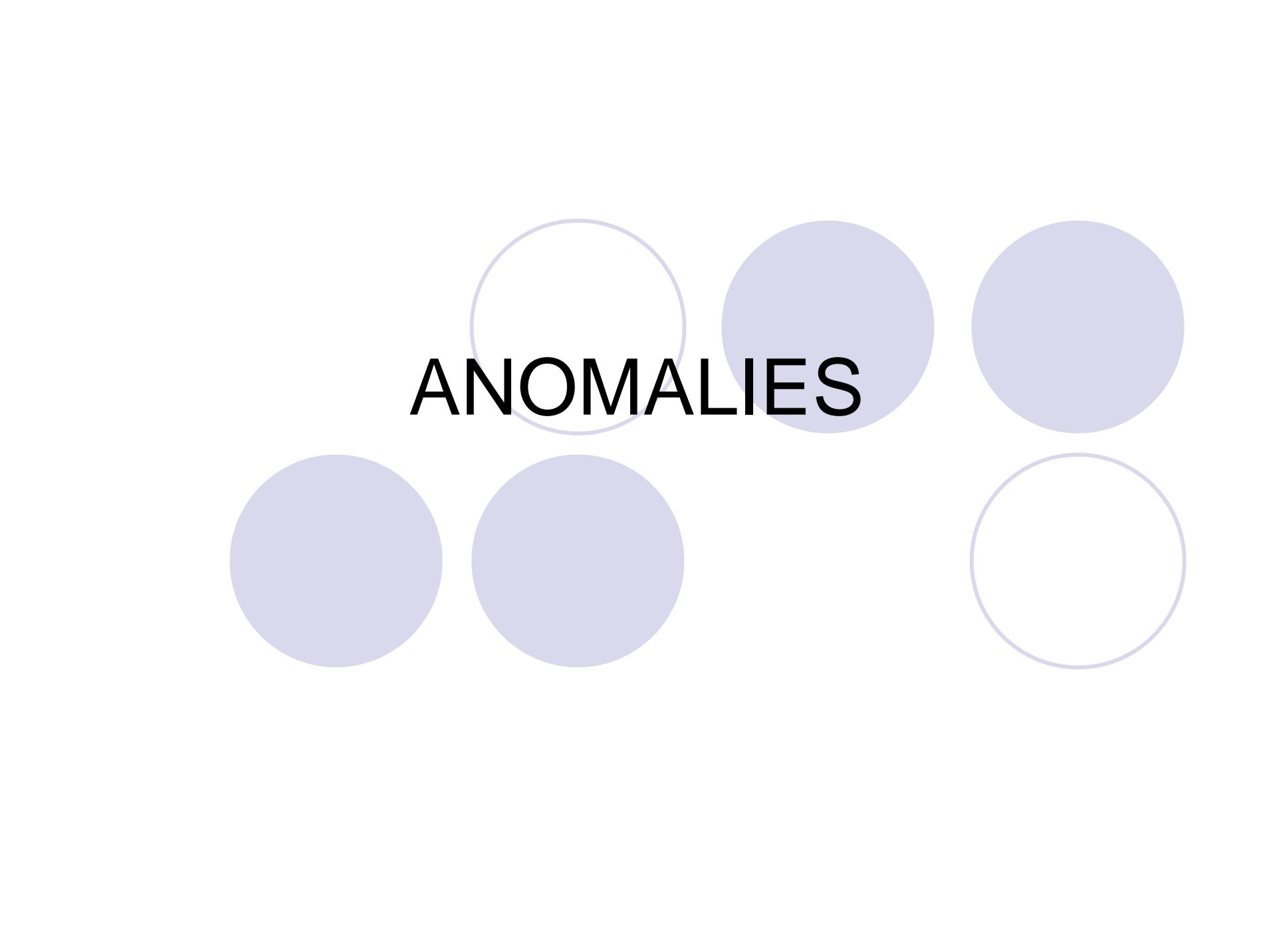


監測程式

WAVEFORM RESULTING FROM EARTHQUAKES

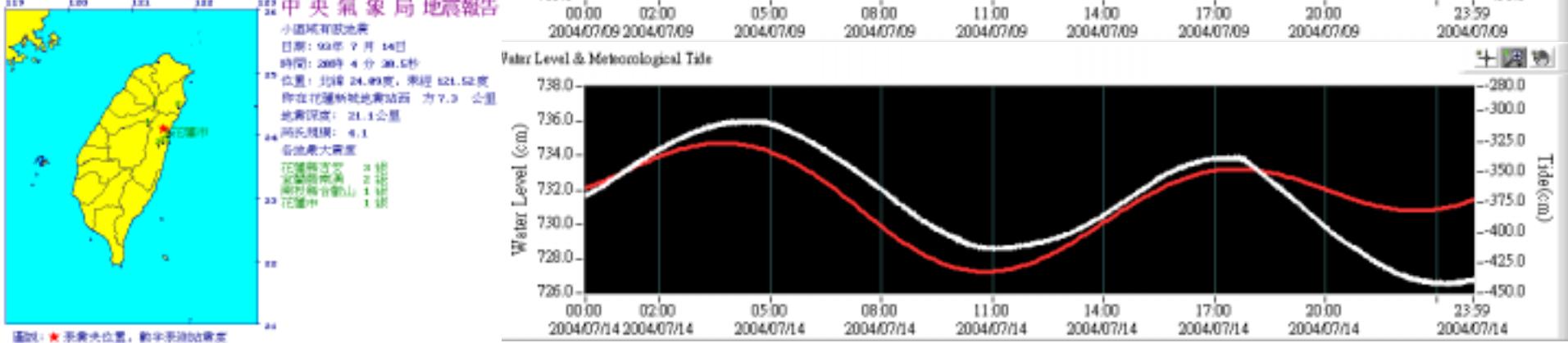
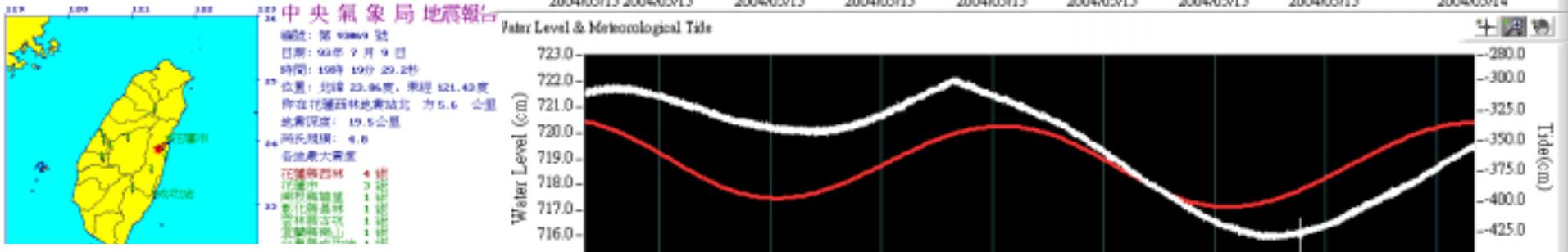
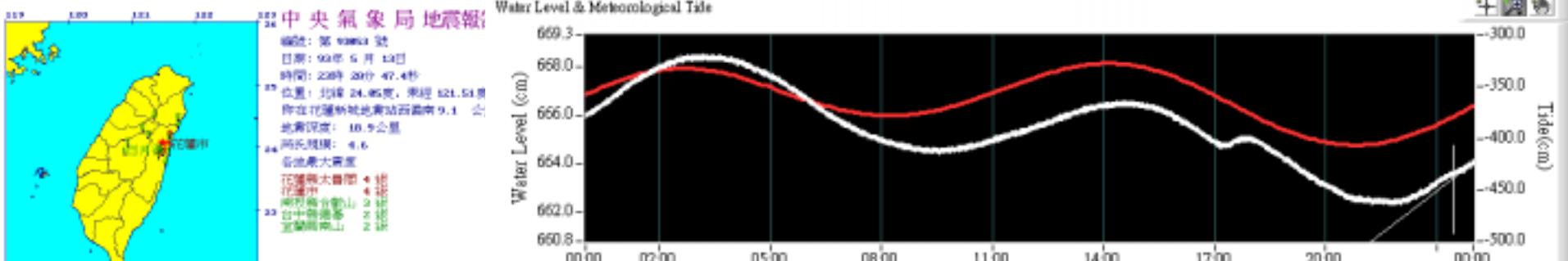






ANOMALIES

地震編號	時間 (Taiwan Time)	規模	經度	緯度	深度 (km)	離測站距離 (km)	水位異常測站	當地震度
	2004/05/13		121.5					
93053	23:28:47 2004/07/09	4.6	121.4	24.05	18.9	13.3	花蓮	4
93069	19:19:29	4.8	121.3	23.86	19.5	23.3	花蓮	3
小區域	20:04:30	4.1	121.2	24.09	21.1	15.7	花蓮	1



圖說: ★ 烏鵲先位置, 數字系測站數量

**THANK YOU
FOR YOUR PATIENT!!**