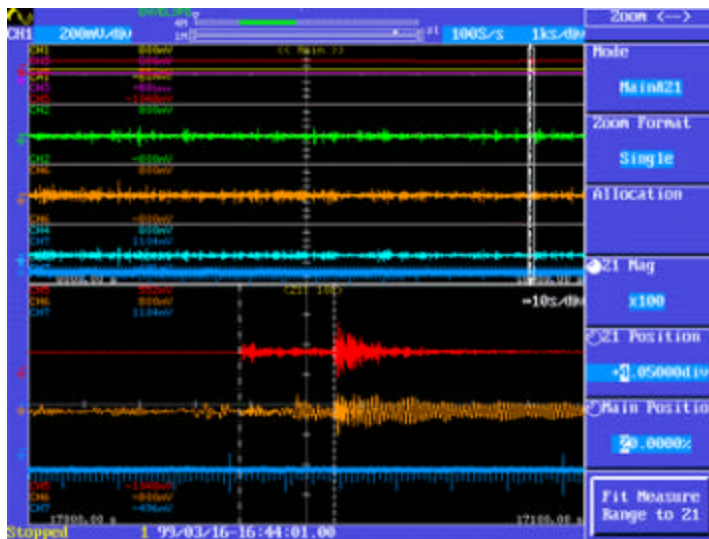


## Earthquake Prediction Research by Electromagnetic Wave

**Outline:** Capture ULF electromagnetic wave generated from rock destruction by crustal motion then analyze the correlation between the wave and earthquake. This research will hopefully lead to earthquake prediction.



Zoom function makes it easy to expand a specific part of the display when you want to analyze the details of a “long-period” waveform.

### Capture a long-period of electromagnetic wave sensor data (tri-directional)

Direction is an important factor in analyzing electromagnetic waves, but can be difficult to measure due to low signal levels. Several months of continuous data is typically needed.

### FFT, Differential & Integral functions are used to analyze captured signals

Extract necessary electromagnetic wave frequency level from various signals containing noise, and analyze correlation between the wave and earthquake using differential and integral calculations.

#### **DL708 Features:**

- \*Up to 8 isolated input channels with 16-bit resolution
- \*Direct input of sensor signal
- \*Long memory - maximum 4M word/channel
- \*Continuous measurement for more than 10 hours at 100S/s sampling
- \*Connect several mass memory devices by SCSI interface
- \*By Zoom function, zooming rate or period can be set easily
- \*Powerful mathematical functions including FFT, differential and integral

