



# ALomax scientific seismology · scientific software

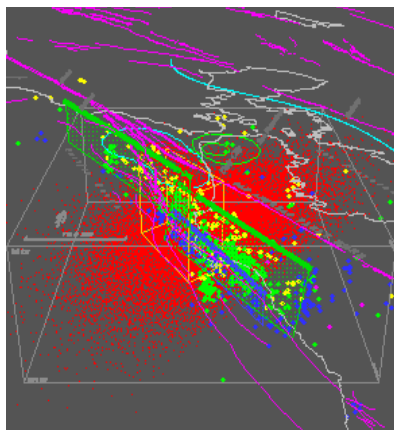
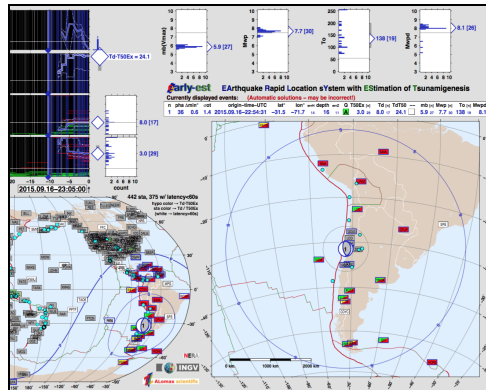
Seismological expertise, software and research  
services for monitoring, science, education

Conception and implementation of methodologies, algorithms  
and software for collection, processing, analysis, visualization  
and dissemination of seismological information

**real-time seismology** - rapid  
data analysis, event detection and  
characterization for tsunami and  
earthquake early warning,  
earthquake monitoring, volcano  
monitoring, micro-seismic  
monitoring, mine and cavity hazard  
monitoring, ...

### Early-est ▶

Earthquake Rapid Location sYstem  
with Estimation of Tsunamigenesis  
[early-est.alomax.net](http://early-est.alomax.net)



**earthquake location** – seismic, micro-  
seismic and hydro-acoustic event location,  
3D velocity models, seismicity, wave  
propagation, ...

### ◀ NonLinLoc

probabilistic, global-search earthquake  
location in 3D structures  
[alomax.net/nlloc](http://alomax.net/nlloc)

### ◀ Seismicity Viewer

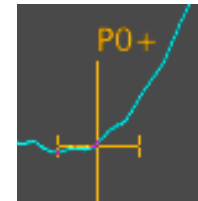
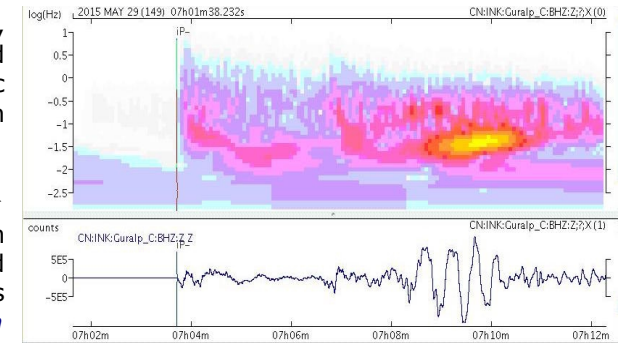
3D seismicity and GIS visualization  
[alomax.net/seismicity](http://alomax.net/seismicity)

**optimization** - global and stochastic search methods, machine learning, ...

**visualization** - interactive,  
graphical analysis and  
dissemination of scientific  
information

### SeisGram2K ▶

interactive seismogram  
visualization, processing and  
analysis  
[alomax.net/seisgram](http://alomax.net/seisgram)



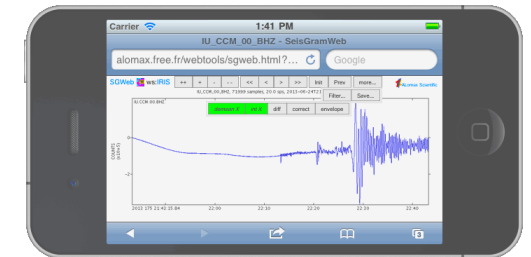
**scientific software** – end-to-end and modular  
components: C, Java, Python, R, FORTRAN, C++,  
JavaScript, HTML, scripting, ...

### ◀ FilterPicker

A general purpose, broad-band, phase detector and picker  
[www.alomax.net/FilterPicker](http://www.alomax.net/FilterPicker)

### SeisGramWeb ▶

a browser based,  
interactive viewer and wrapper for  
time-series web services  
[alomax.net/seisgramweb](http://alomax.net/seisgramweb)



**selected clients** - ISTI, USGS, IRIS, ORFEUS (EU), INGV (IT), AMRA (IT),  
ETH-Zurich, Ecole des Mines (FR), IRSN (FR), CNRS (FR), IFREMER (FR),  
edusismo.org (FR), BGS/@Schoolseismo (UK), ...

**Anthony Lomax** has a PhD in seismology (UC Berkeley, 1992), and has  
published extensively on earthquake observation and monitoring, earthquake  
and tsunami early-warning, seismicity, wave propagation, ...

[alomax.net/pub\\_list.html](http://alomax.net/pub_list.html)



# ALomax scientific seismology · scientific software

real-time seismology · earthquake location · optimisation · visualisation

Mouans-Sartoux · France

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