



ShakeMap Workshop

Introduction



David Wald, Kuo-Wan Lin, Bruce Worden
U. S. Geological Survey, Golden, CO

– ShakeMap Workshop Schedule –

Thursday, May 28th

08:30-09:30 ShakeMaps & Related Real-time Products [Wald; Plenary]

09:30-09:45 ShakeMap Workshop Introduction [Wald]

Intros, Related Literature, Handouts, User Survey, etc.

09:45-10:30 ShakeMap Science & Processing [Worden]

10:30 –10:45 *Break*

10:45 –12:30 ShakeMap Science & Processing (Con't)

ShakeMap Resources. Web Pages, Examples, Atlas. [Wald]

12:30 – 13:30 Lunch

13:30 – 14:45 ShakeMap Software [Worden]

14:45 – 15:30 ShakeMap Science & Resources (plus Atlas, scenarios) [Wald]

15:30 – 15:45 *Break*

15:45 – 16:30 ShakeCast [Lin]

16:30 – 17:30 **Regional Presentations (ShakeMap or *related* regional efforts)**

17:00 – 17:30 Q/A, Discussion [All]

Friday, May 28th

13:30 – 14:00 ShakeMap Examples [Wald]

14:00 – 15:00 ShakeMap Software (Con't) [Lin/Worden]

Future Developments (Github, Python, VM/Cloud, GMPE's)

Secondary Hazards, Products, Spatial Variability

15:30 –15:45 *Break*

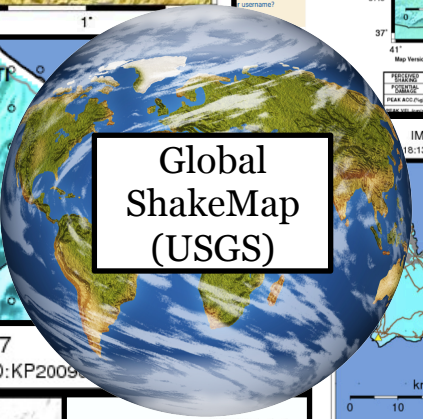
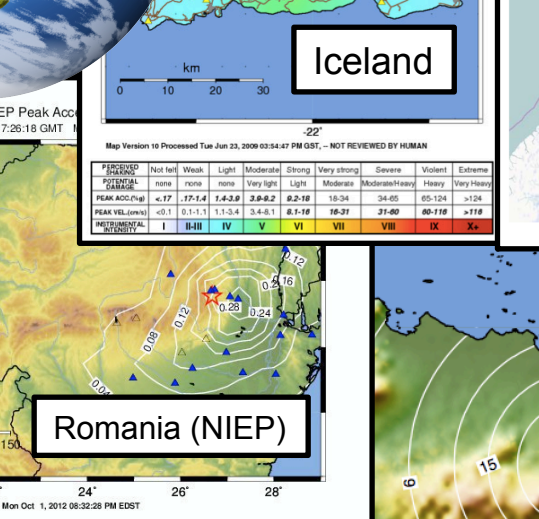
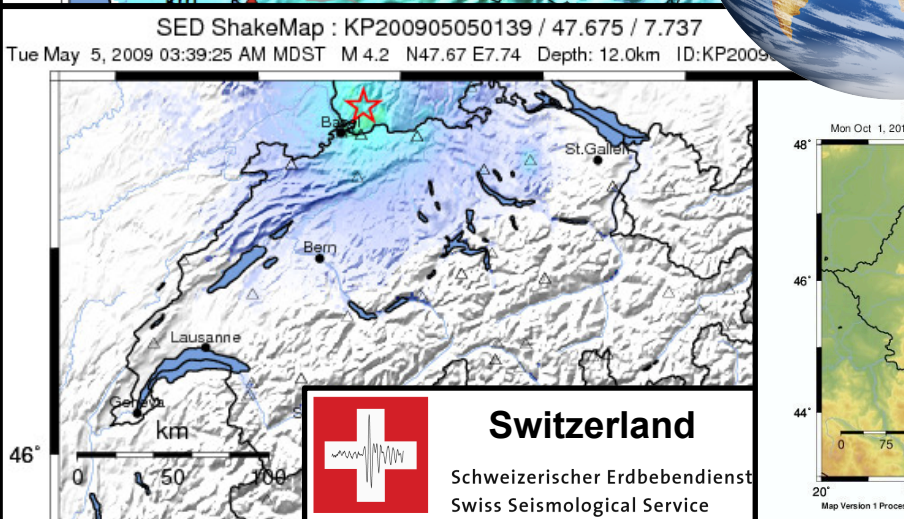
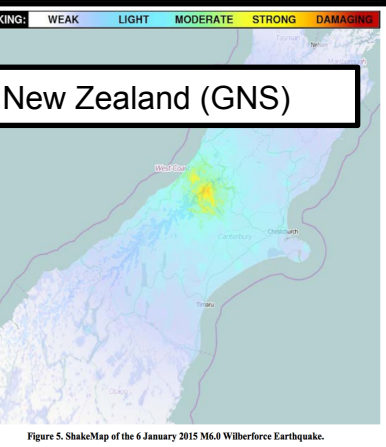
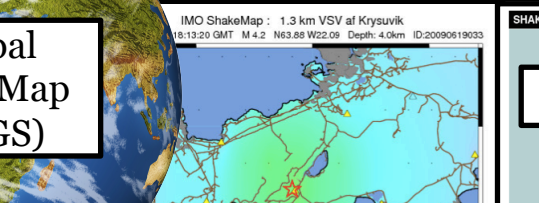
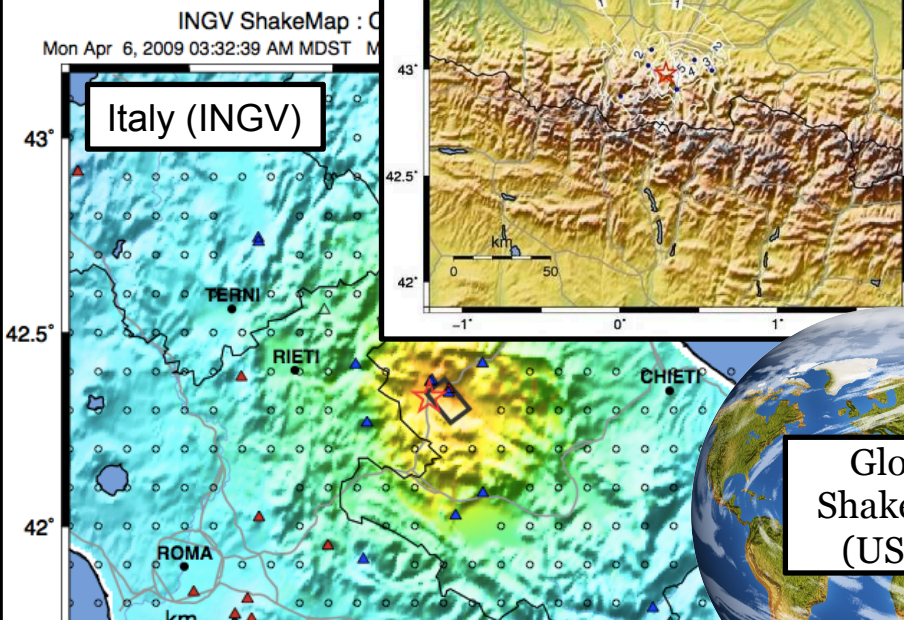
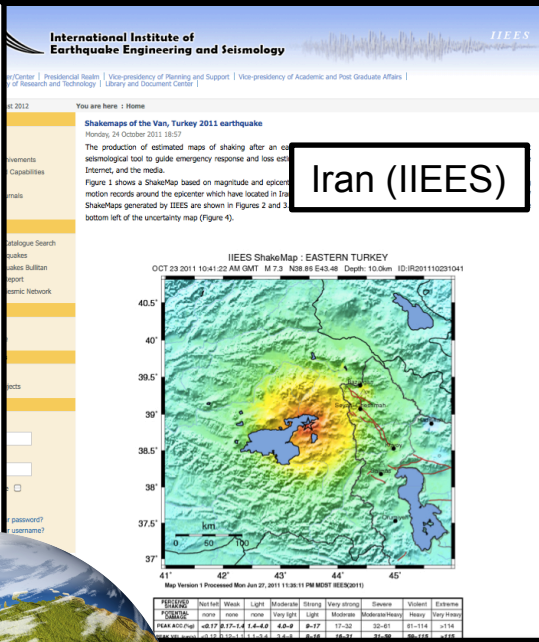
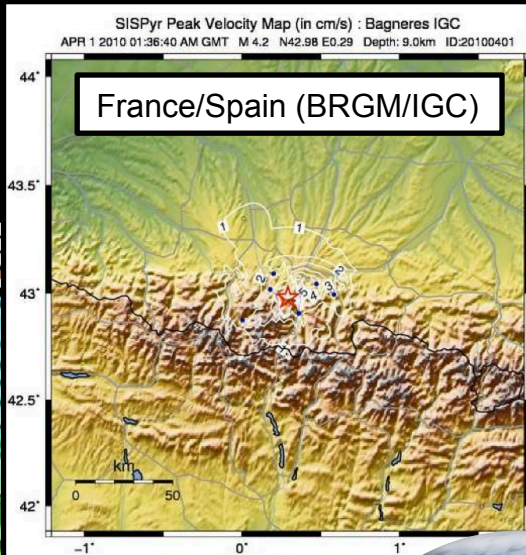
15:45 – 16:30 ShakeMap interactive demo

16:30 – 17:30 Discussion/Feedback/Issues/Q/A [All]

Feature request, R&D, implementation, coordination

Future collaboration, support (e.g., IDB, USAID, USGS, IRIS, etc.)?

National/ Regional ShakeMap Implementations



ShakeMap Questionnaire (flash & google drive)

If interested in further dialogue,
Please submit or email during
or after the workshop...

wald@usgs.gov
cbworden@usgs.gov
klin@usgs.gov



ShakeMap User Survey

Thank you for downloading the ShakeMap application. The survey should take less than ten minutes of your time to complete. Click the "Submit by Email" button to submit the survey.

User Information

1. Contact Name
2. Contact Email
3. Affiliation
4. User Type

Use Scenario

5. Is ShakeMap used in a production environment? Yes No
6. Coverage area of ShakeMap
7. What is your primary use?
8. What benefits do you expect?

Technical Support

9. Most wanted features from ShakeMap
10. General Comments

ShakeMap Workshop Resources (flash & google drive)

2015-05 Chile ShakeMap Workshop

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ShakeMap.Getting.Started.11.5.14	Nov 5, 2014, 10:21 AM	42 KB	Micros...ument
ShakeMap.Operators.Survey copy.pdf	Apr 30, 2009, 4:02 PM	145 KB	PDF Document
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Wald et al (2005) ShakeMap Manual.pdf	May 24, 2005, 8:45 AM	20.5 MB	PDF Document
▼ ShakeMap.Related.References	May 18, 2015, 8:27 PM	131.5 MB	Folder
Allen & Wald (2007) OFR2007-1357 Topo-Slope.pdf	Mar 16, 2009, 10:23 AM	54.6 MB	PDF Document
Atkinson et al (2014) North.America.IPE	Oct 1, 2014, 9:35 PM	9.4 MB	PDF Document
Caprio et al (2015) Global GMICE	May 9, 2015, 3:48 PM	1.4 MB	PDF Document
Cauzzi et al (2014) ShakeMap.Switzerland.pdf	Nov 24, 2014, 9:46 AM	6.3 MB	PDF Document
Garcia et al (2012) GMPE.Selector.pdf	Oct 5, 2014, 8:27 PM	1.4 MB	PDF Document
Horspool (2015) ShakeMap.NZ.NZEE.pdf	May 9, 2015, 4:48 PM	452 KB	PDF Document
Jayaram & Baker (2010) Sampling_and_clustering,_EESD.pdf	Apr 8, 2015, 10:48 AM	389 KB	PDF Document
Lin & Wald (2012) ShakeCast.15WCEE.pdf	Apr 30, 2012, 2:50 PM	1.1 MB	PDF Document
Lin and Wald (2008) ShakeCast Manual.pdf	Oct 22, 2008, 9:23 PM	6.7 MB	PDF Document
Nowicki et al (2014) Global.Landslide.Model.Eng.Geo.pdf	Mar 26, 2014, 1:15 PM	4.6 MB	PDF Document
Perrin et al (2015) New Zealand Vs30 NZSEE	May 9, 2015, 4:45 PM	1.1 MB	PDF Document
Thompson et al (2014) Vs30.CA.pdf	Jan 25, 2015, 10:11 PM	881 KB	PDF Document
Wald & Allen (2007) Topo Slope Vs30.pdf	Jun 25, 2010, 7:22 AM	2.9 MB	PDF Document
Wald & Lin (2007) ShakeCast Fact Sheet.pdf	Nov 5, 2007, 5:19 PM	3.5 MB	PDF Document
Wald et al (2006) ShakeCast 5NSC.pdf	Apr 5, 2007, 11:49 AM	2.1 MB	PDF Document

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REFERENCES (PDF)

Applications

ABSTRACTS

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Office Projects

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ShakeMap Workshop Resources (flash & google drive)

ShakeMap Background Information for Software Installation

(May 2015)

1) **Parametric Data:** You need to consolidate peak ground motions for each earthquake. PGA and PGV are required and Spectral Accelerations at 0.3, 1.0, and 3.0 sec are highly recommended. Instrumental Intensity comes from the PGA and PGV with one of our

Ground Motion/Intensity Co field reports or internet resp also allowed. These paramet or queried from a database as

2) **Site Corrections:** ShakeM wave velocity in the top 30 m interpolation between station associated average 30m shear. The factors are built in for V velocity at uniform sampling intend to make your ShakeM locally from geology or geot generator at: <http://earthqu>

The VS30 server currently p ShakeMap works in gridline

[grdsample](#) your_vs30

You then configure [grind.co](#) [grind.conf](#) for details.

Likewise, local data may need from above Vs30 Server, or

3) **Ground Motion Prediction (drop-outs)** to the ShakeMap crustal regressions. These will consider GMPEs specific to simply modified from the ex

ShakeMap Configuration & Calibration Guide

This tutorial provides an overview of the ShakeMap System for general research purposes, and for use in real-time. The basic ShakeMap directory structure, changing ShakeMap input parameters, software package and its function. Manual at: <http://pubs.usgs.g>

CONTENTS

ShakeMap Directory structure.....
ShakeMap Program Files.....
ShakeMap Basics.....
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grind.conf.....
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Overriding Configuration Files.....
Changing Map Dimensions.....
Changing Map Centroid.....
Applying Site Amplification.....
Zone Configurations.....
Adding Finite-Faults.....
Adding Observed Data to Shake.....
Strong-motion data.....
Macroseismic Intensity Data.....
ShakeMap Products.....
Updating ShakeMaps for Earth.....

USGS ShakeMap - Some Useful Links

- The latest version of **ShakeMap software**, V3.5 available at the SVN repository:
<https://vault.gps.caltech.edu/repos/products/shakemap/tags/release-3.5/>

The most up-to-date need an svn client to configuration procedure <install_directory>

- ShakeMap Manual**

NOTE: The ShakeMap compared to the installed software (the Software are working on an update

- You also should sign up for <https://geohazard>

- You can sign up for <https://geohazard>

- ShakeCast Help:**
- ShakeCast Wiki:** [https://my.usgs](#)
- ShakeCast Quarterly** [/https://my.usgs](https://my.usgs)

- Global Vs30 Server** <http://earthqu>

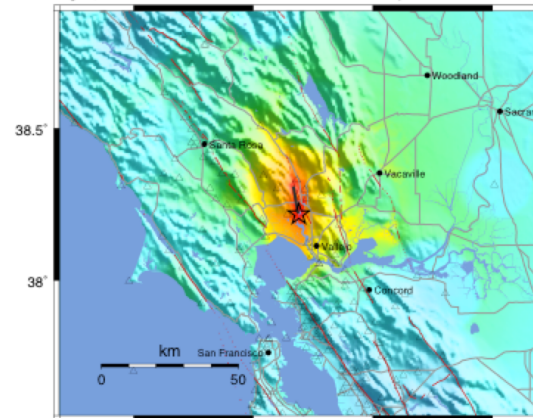
If you would like to grid you can run R



ShakeMap Manual (2015)

-IN PROGRESS-

CISN ShakeMap : 6.4 km (4.0 mi) NW of American Canyon, CA
Aug 24, 2014 10:20:44 AM UTC M 6.0 N38.22 W122.31 Depth: 11.7km ID:72282711



Map Version 1 Processed 2014-09-17 05:34:31 PM UTC