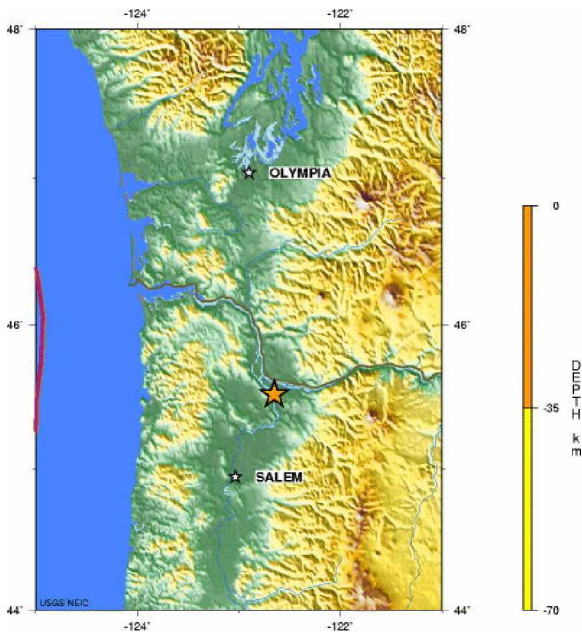


Magnitude 2.6 Microearthquake in Portland November 6, 2006 at 05:34:35 UTC (Sunday, November 5, 09:34:35 Local Time)

Robert Butler & John Lahr

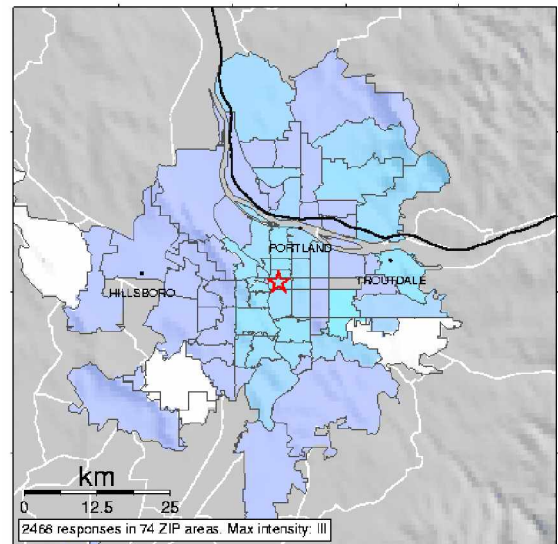
Epicenter: Latitude 45.516°N, 122.648°W (indicated by star on map; and red square on aerial photo). **Depth:** approximately 15.7 kilometers but not very precise. Map on bottom right shows intensity based on Internet reports from residents.



PORTLAND URBAN AREA, OREGON
2006 11 06 05:34:35 UTC 45.52N 122.65W Depth: 15.7 km, Magnitude: 2.6
Earthquake Location
Major Tectonic Boundaries: Subduction Zones -purple, Ridges -red and Transform Faults -green
USGS National Earthquake Information Center

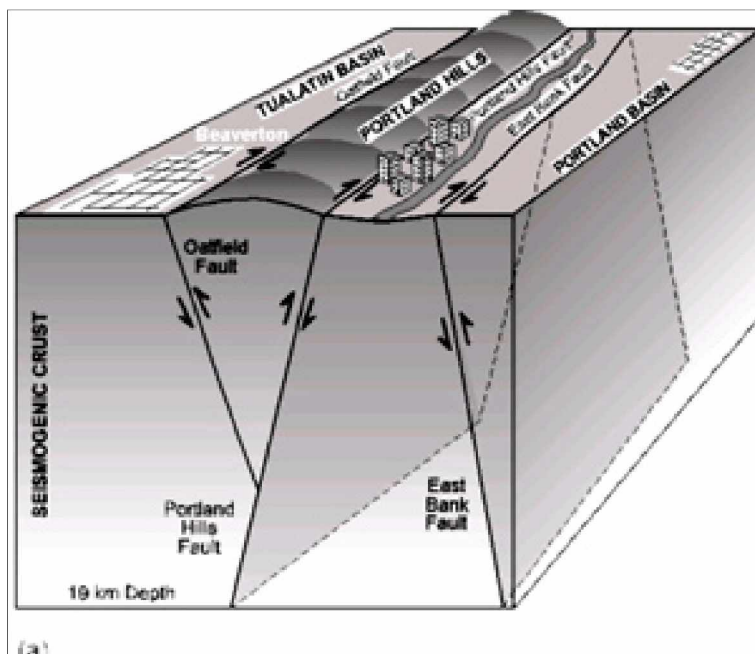


USGS Community Internet Intensity Map (Near Portland, Oregon)
ID:11060534 21:34:36 PST NOV 5 2006 Mag=2.6 Latitude=N45.52 Longitude=W122.65

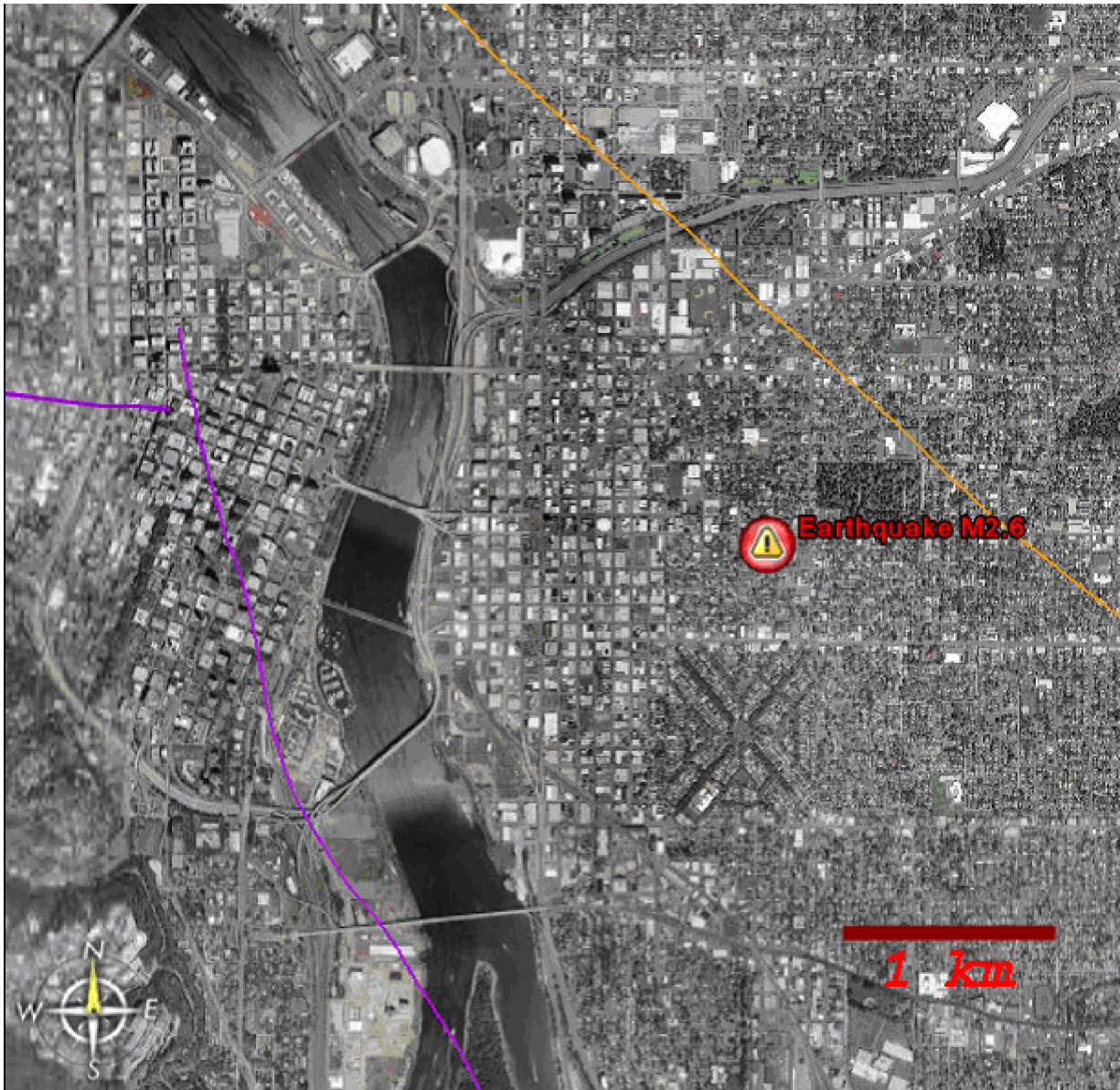


123°W
Map last updated on Tue Nov 7 09:45:43 2006

INTENSITY	I	II-III	IV	V	VI	VII	VIII	IX	X+
SHAKING	Not felt	Weak	Light	Moderate	Strong	Very strong	Severe	Violent	Extreme
DAMAGE	none	none	none	Very light	light	Moderate	Moderate/Heavy	Heavy	Very Heavy

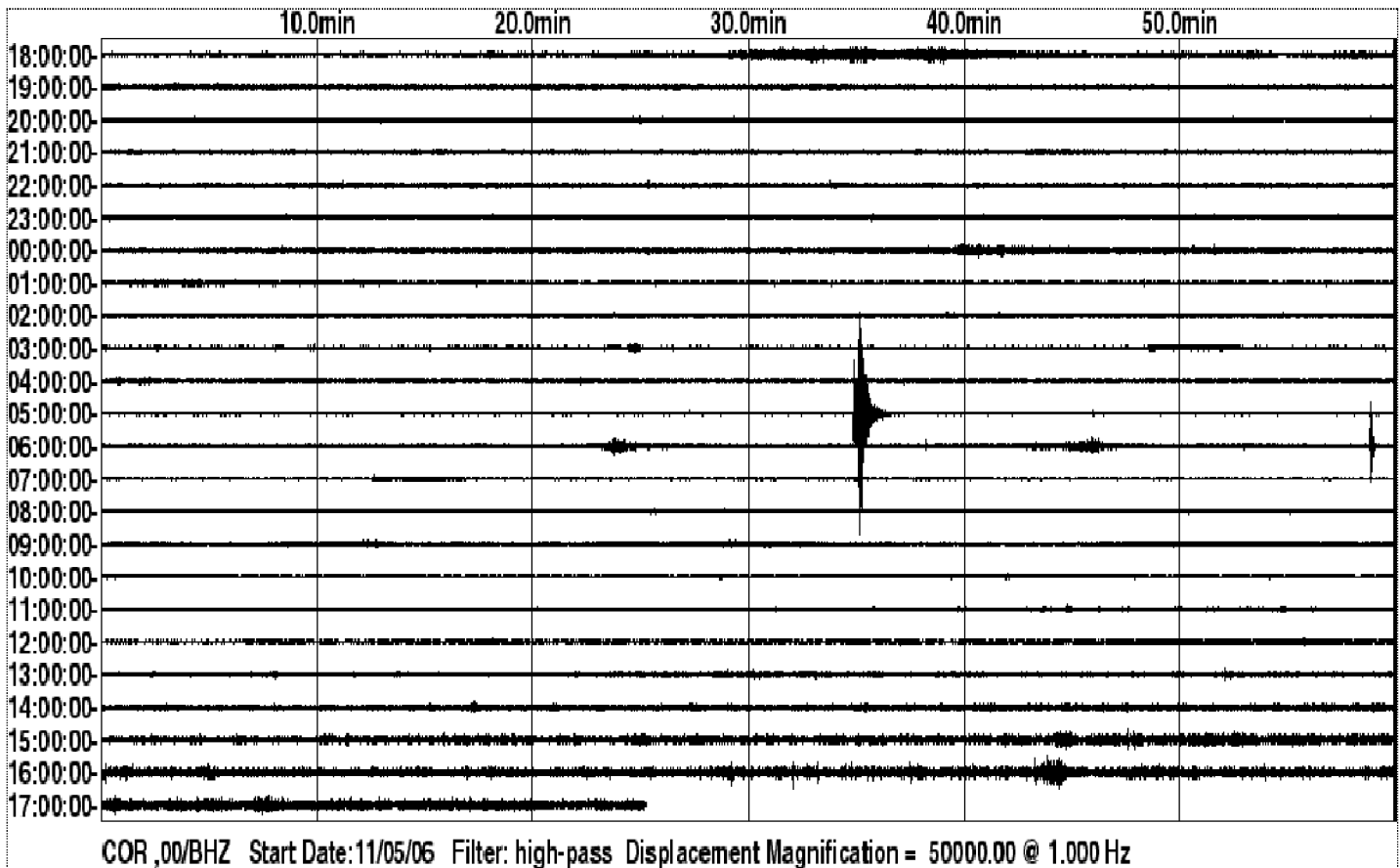


(a)



Google Earth view of the M 2.6 earthquake of November 6, 2006. Faults: Orange -- East Bank fault; Purple -- Portland Hills Fault.

Initially thought was that the earthquake occurred on the Portland Hills Fault but the revised location is more consistent with motion on the East Bank Fault. It is also possible that the earthquake took place on an unmapped fault.



Short-period record from Corvallis, Oregon, station (COR).

References and further reading

Richard L. Hill, The Oregonian article, November 07, 2006: Third S.E. Portland quake poses puzzle for experts. <http://www.oregonlive.com/news/oregonian/index.ssf?/base/news/1162869917236570.xml&coll=7>

USGS Did You Feel It? web site: http://pasadena.wr.usgs.gov/shake/STORE/X11060534/ciim_form.html

Airborne Hunt for Earthquake Hazards in the Portland-Vancouver Area
<http://geophysics.wr.usgs.gov/gump/portland/portland.html>

U.S. Geological Survey, 2006, Quaternary fault and fold database for the United States, accessed November 6, 2006, from USGS web site: <http://earthquakes.usgs.gov/regional/qfaults/> .

East Bank Fault:

http://gldims.cr.usgs.gov/webapps/cfusion/Sites/qfault/qf_web_disp.cfm?qfault_or=1734&qfault_id=876

Portland Hills Fault:

http://gldims.cr.usgs.gov/webapps/cfusion/Sites/qfault/qf_web_disp.cfm?qfault_or=1735&qfault_id=877

Oatfield Fault:

http://gldims.cr.usgs.gov/webapps/cfusion/Sites/qfault/qf_web_disp.cfm?qfault_or=1733&qfault_id=875