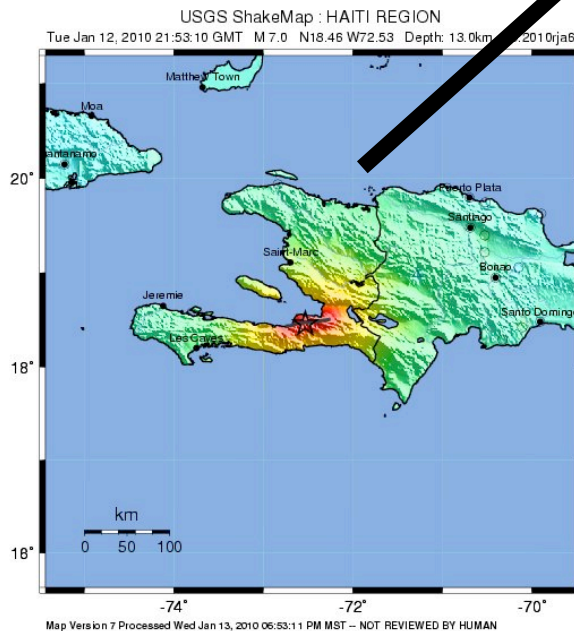
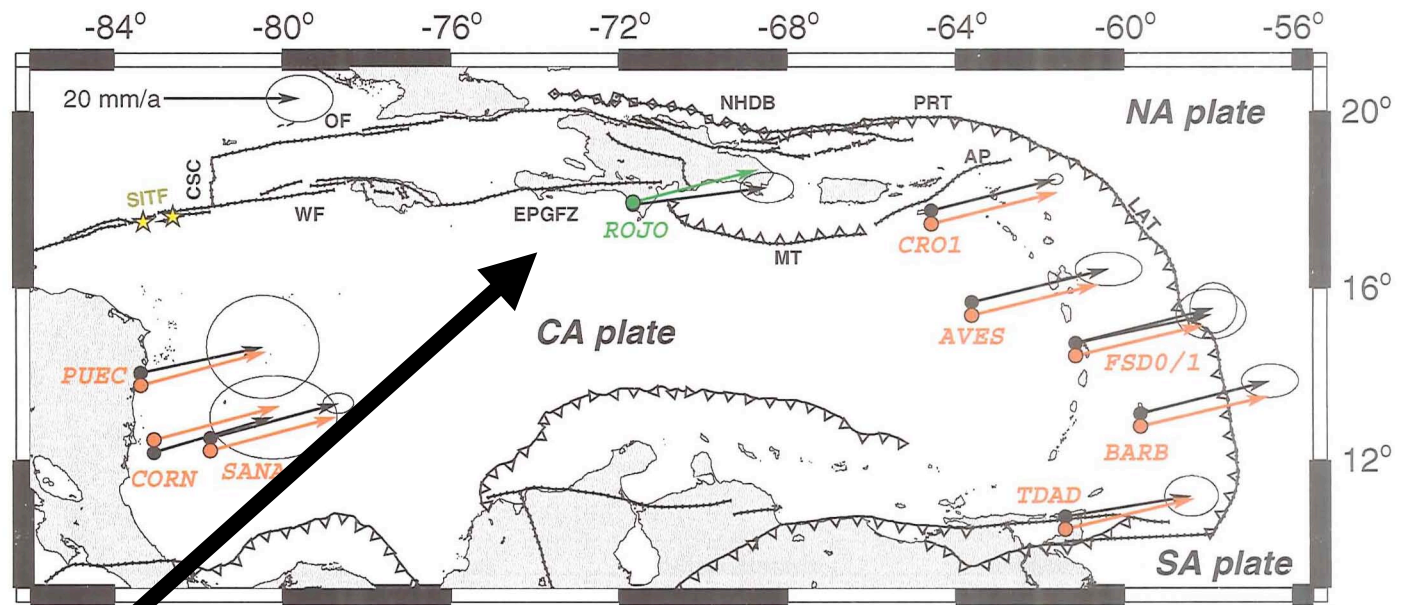


HAITI

1/12/10

M 7.0

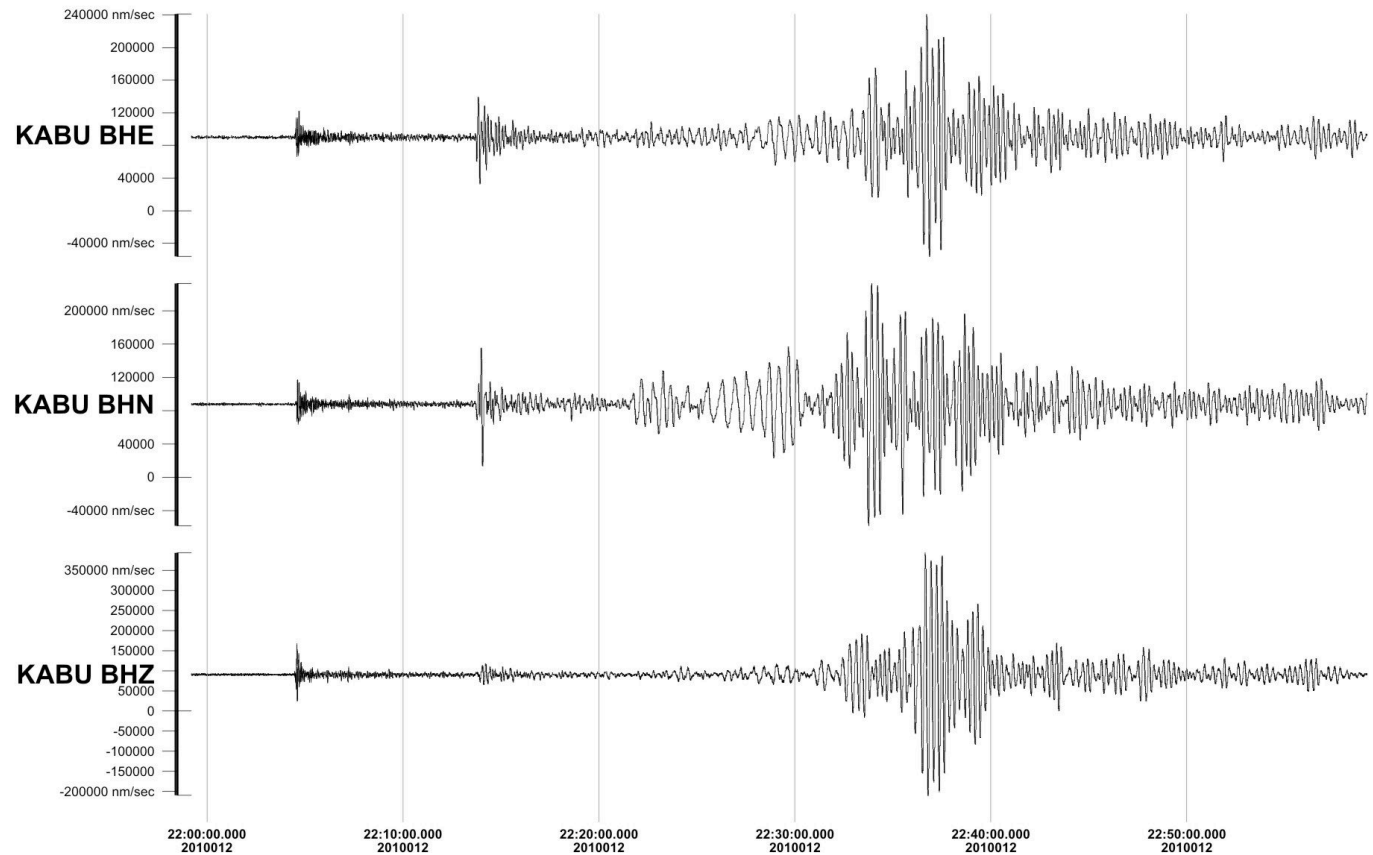
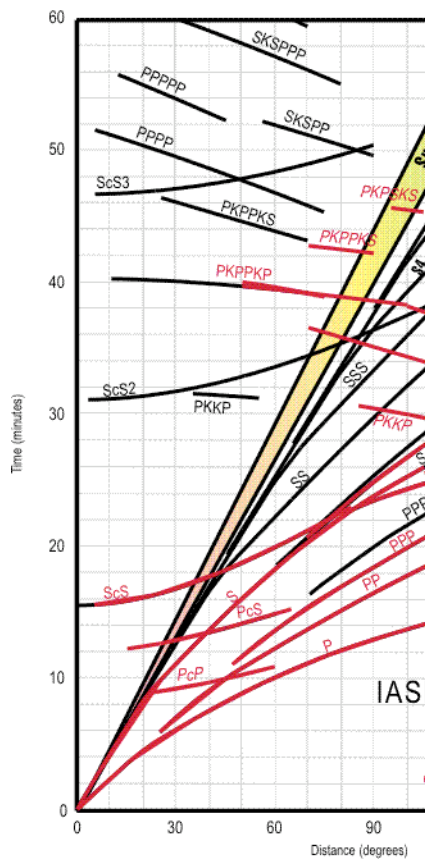


9: Observed and predicted Caribbean site velocities. Black circles and vectors with 2σ error bars represent the observed velocities of sites in a NA reference frame. Open circles with red vectors (offset for clarity) represent the predicted velocities by the computed 9-site GPS-only CA-NA Euler vector. ROJO (shown here in green) was previously considered as a stable CA site, was not used in the inversions. Abbreviations are as those found in Figure 1.1.

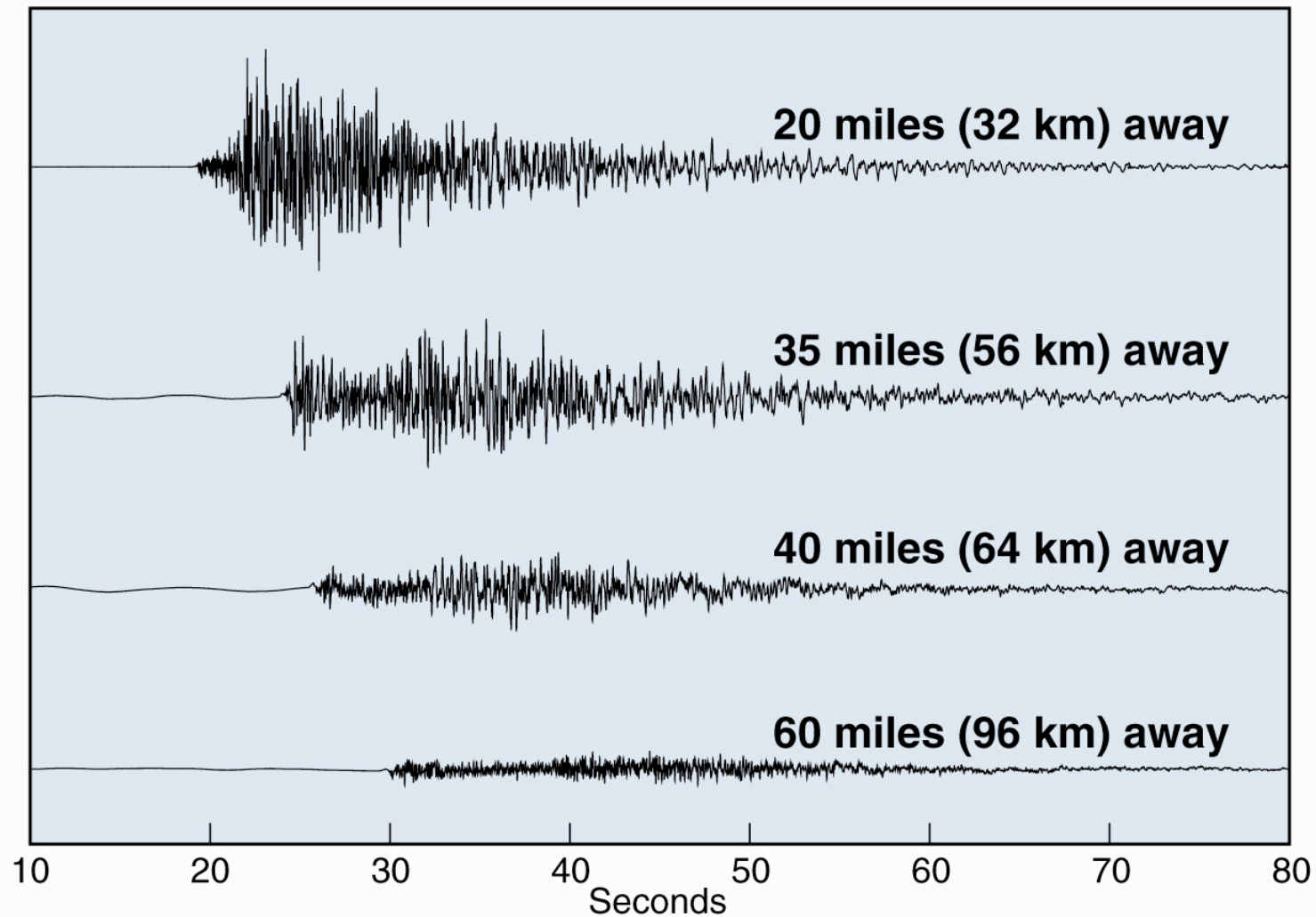


| PERCEIVED SHAKING | Not felt | Weak | Light | Moderate | Strong | Very strong | Severe | Violent | Extreme |
|------------------------------|----------|----------|---------|------------|--------|-------------|----------------|---------|------------|
| POTENTIAL DAMAGE | none | none | none | Very light | Light | Moderate | Moderate/Heavy | Heavy | Very Heavy |
| PEAK ACC (m/s ²) | <0.17 | 0.17-1.4 | 1.4-3.9 | 3.9-9.2 | 9.2-16 | 16-34 | 34-65 | 65-124 | >124 |
| PEAK VEL (cm/s) | <0.1 | 0.1-1.1 | 1.1-3.4 | 3.4-8.1 | 8.1-16 | 16-31 | 31-60 | 60-116 | >116 |
| INSTRUMENTAL INTENSITY | I | II-III | IV | V | VI | VII | VIII | IX | X+ |

Major 7.0 Earthquake Near Port-Au-Prince, Haiti Tuesday, January 12, 2010 at 21:53:09 UTC

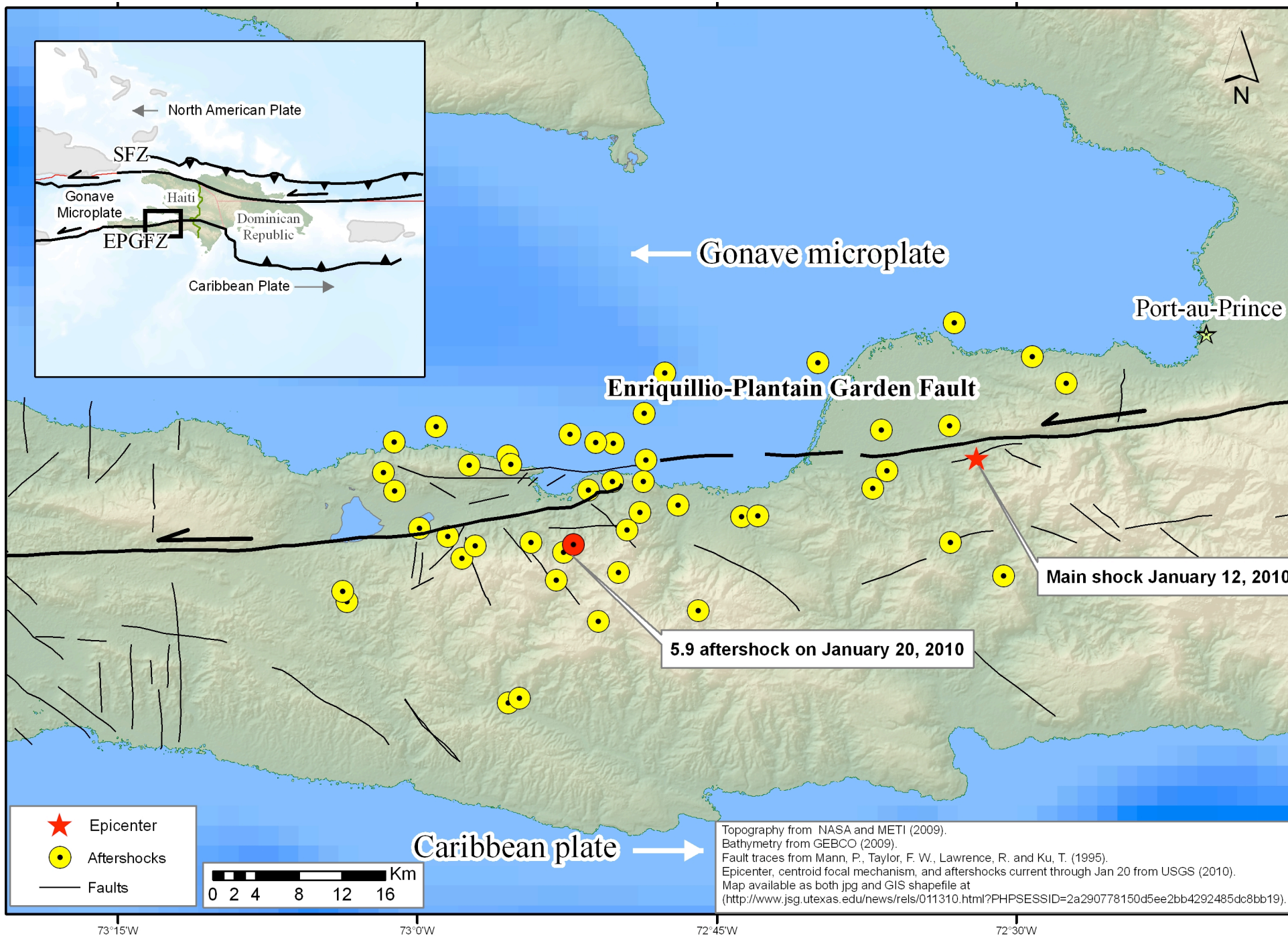


The 12 January 2010 Haiti earthquake showed up very nicely on station KABU at Katmai National Park, Alaska, an angular distance of 68 degrees from the epicenter. One hour of data from three components of motion are shown: east-west (top),



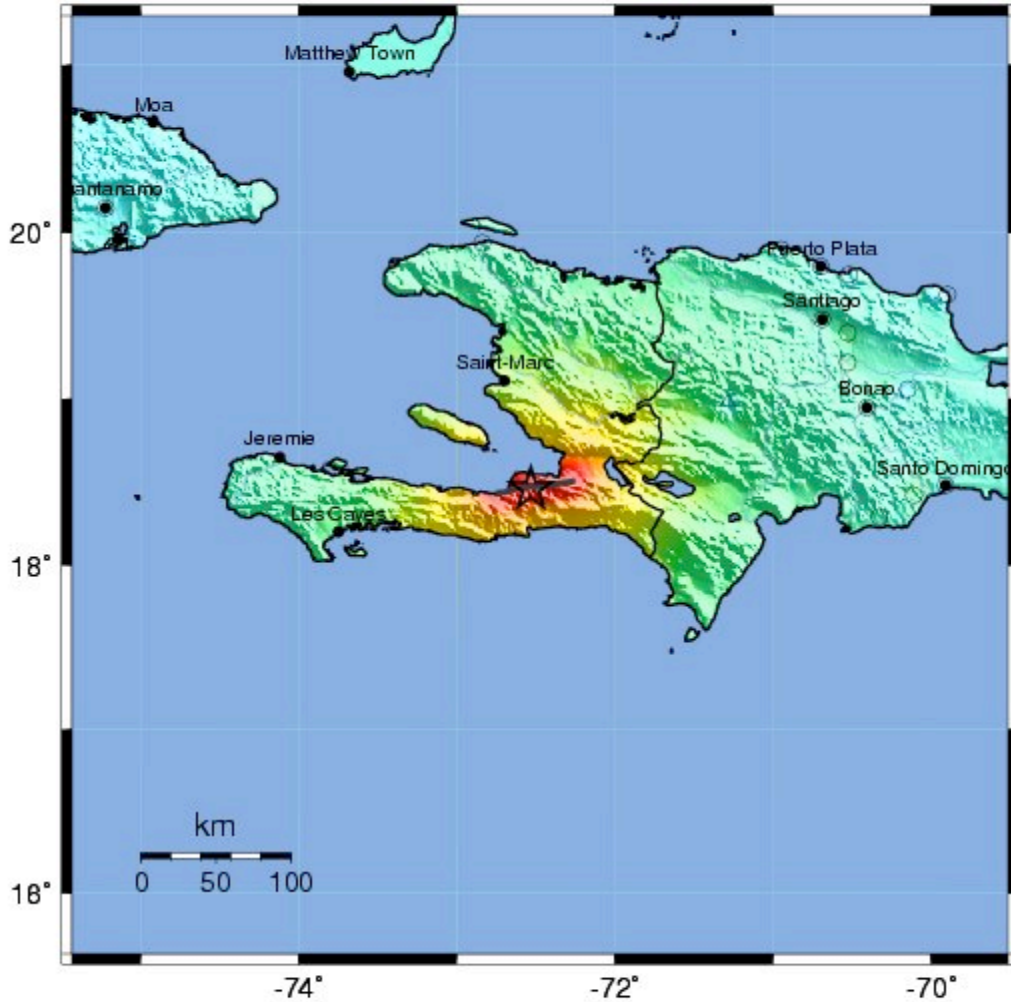
Four seismograms showing waves getting smaller with distance from the earthquake epicenter

University of Nevada, Reno



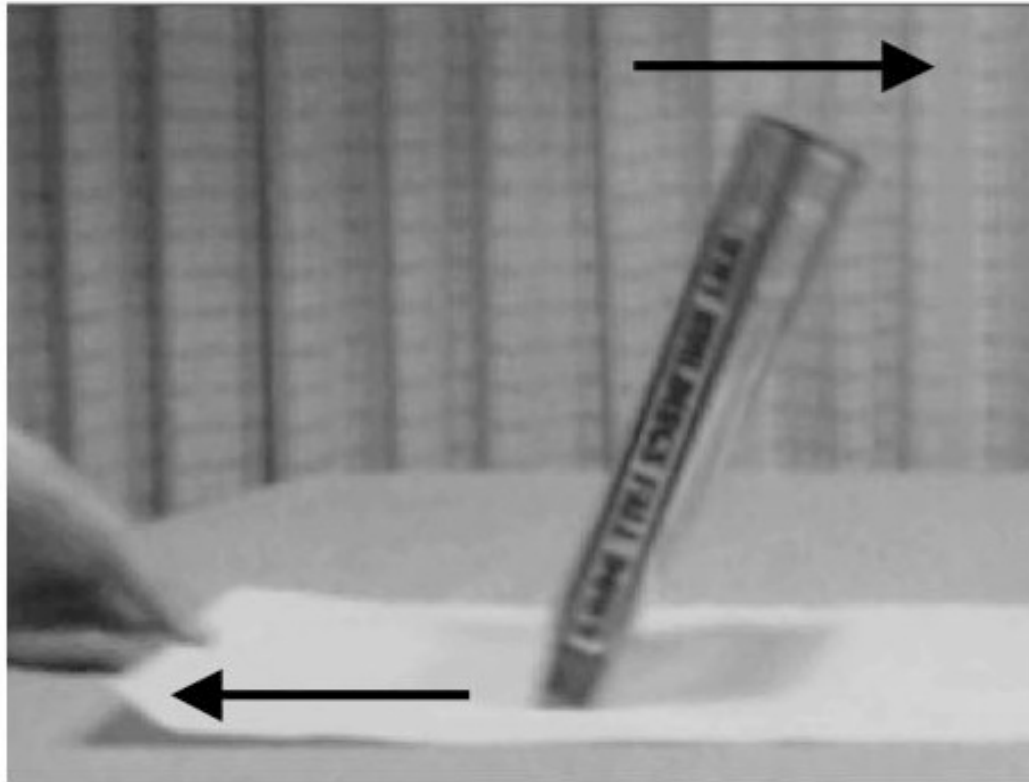
USGS ShakeMap : HAITI REGION

Tue Jan 12, 2010 21:53:10 GMT M 7.0 N18.46 W72.53 Depth: 13.0km ID:2010rja6

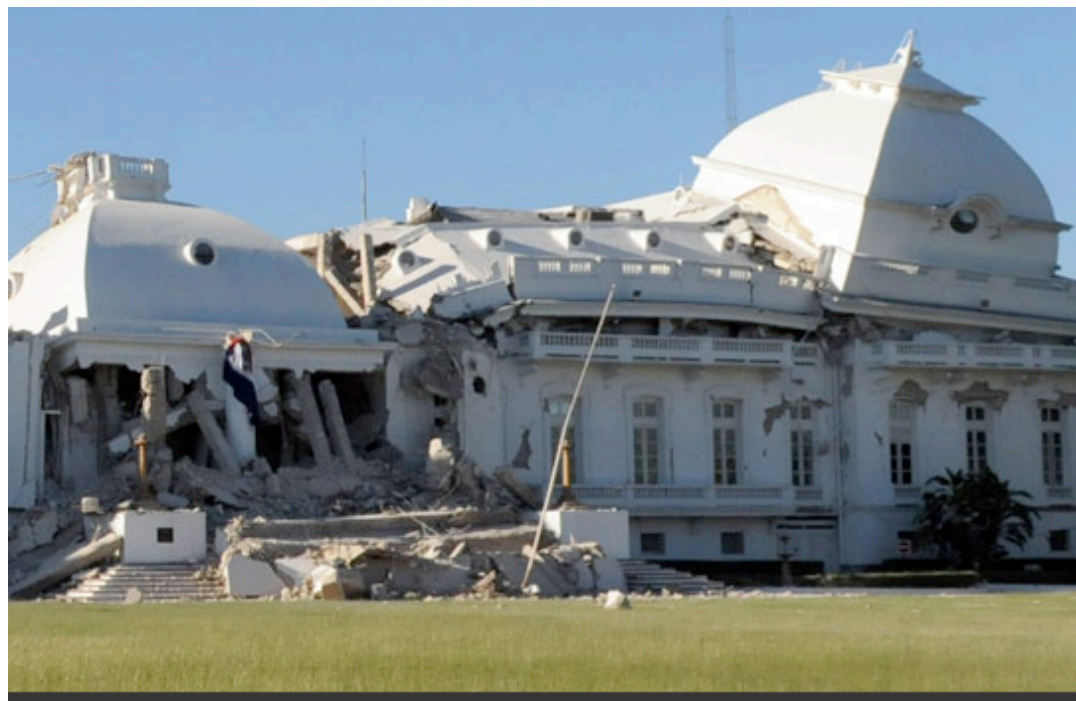
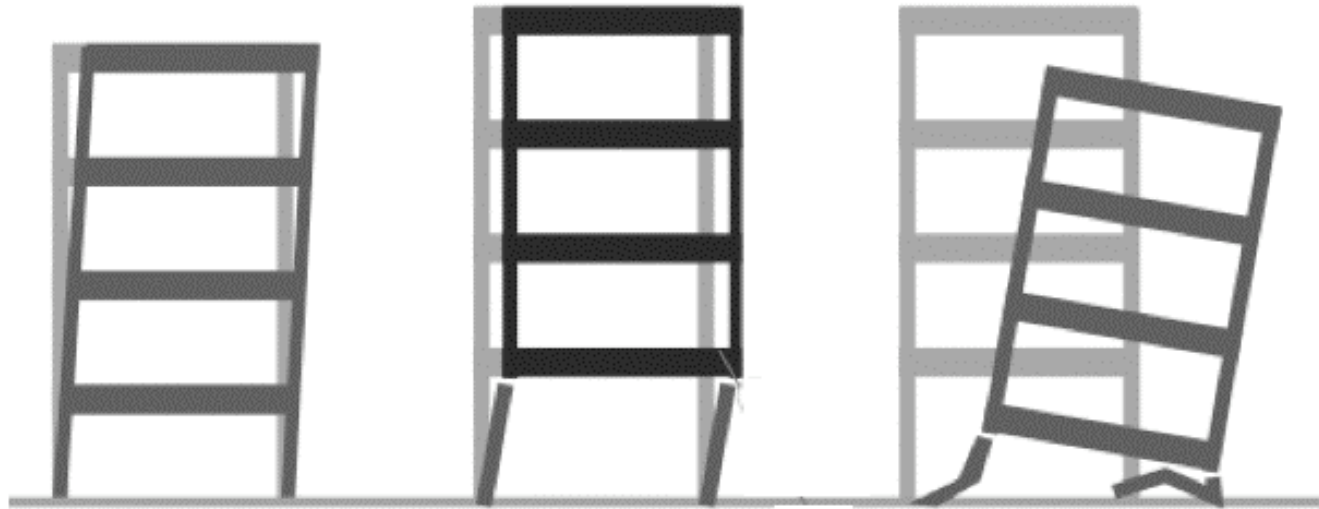


Map Version 7 Processed Wed Jan 13, 2010 06:53:11 PM MST -- NOT REVIEWED BY HUMAN

| | | | | | | | | | |
|------------------------|----------|---------|---------|------------|--------|-------------|----------------|---------|------------|
| PERCEIVED SHAKING | Not felt | Weak | Light | Moderate | Strong | Very strong | Severe | Violent | Extreme |
| POTENTIAL DAMAGE | none | none | none | Very light | Light | Moderate | Moderate/Heavy | Heavy | Very Heavy |
| PEAK ACC.(%) | <.17 | .17-1.4 | 1.4-3.9 | 3.9-9.2 | 9.2-18 | 18-34 | 34-65 | 65-124 | >124 |
| PEAK VEL.(cm/s) | <0.1 | 0.1-1.1 | 1.1-3.4 | 3.4-8.1 | 8.1-16 | 16-31 | 31-60 | 60-116 | >116 |
| INSTRUMENTAL INTENSITY | I | II-III | IV | V | VI | VII | VIII | IX | X+ |



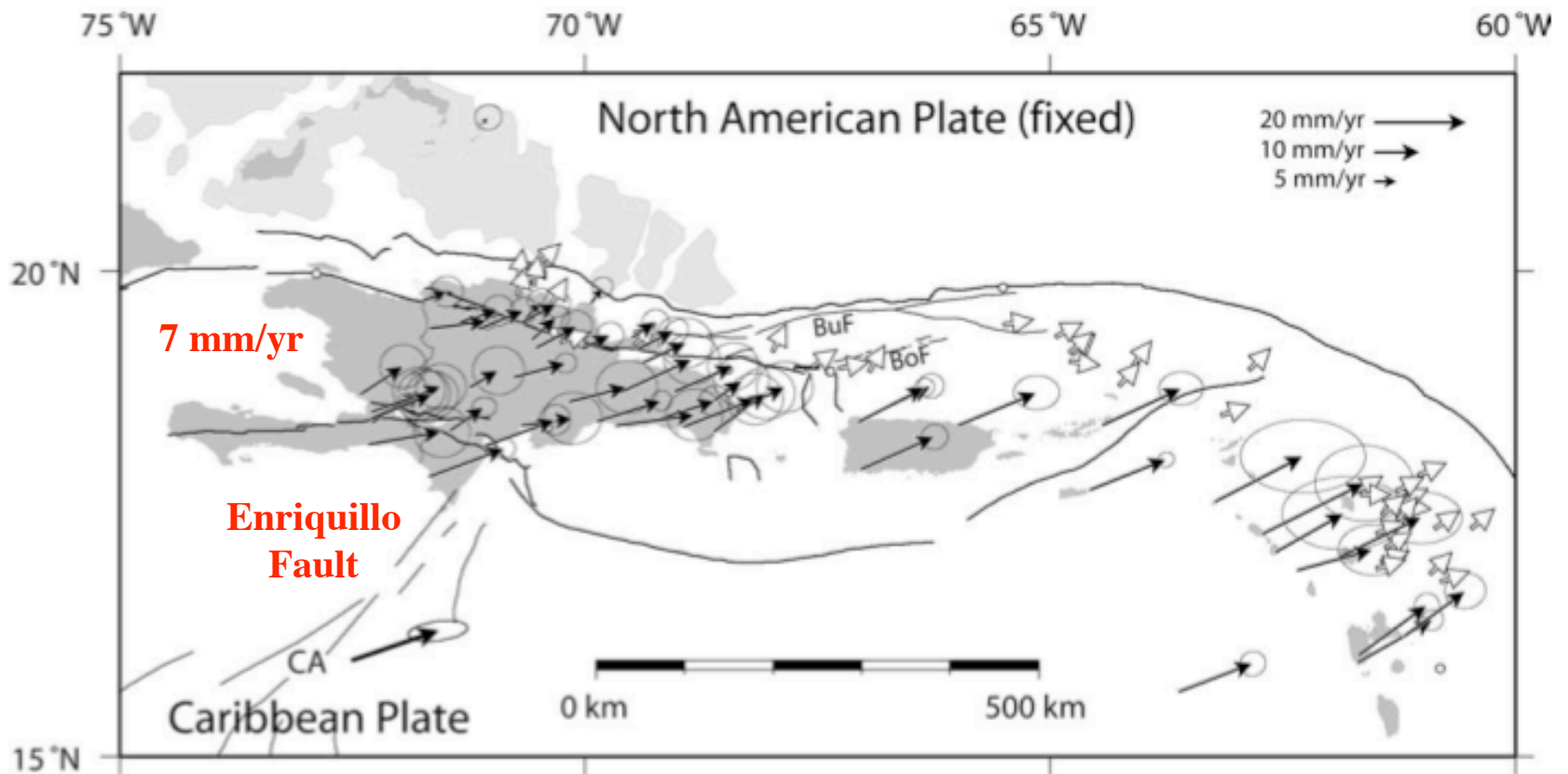
When a book's bottom is moved in one direction, inertia makes it fall in the opposite direction.



<http://news.discovery.com/earth/haiti-earthquake-damage.html>



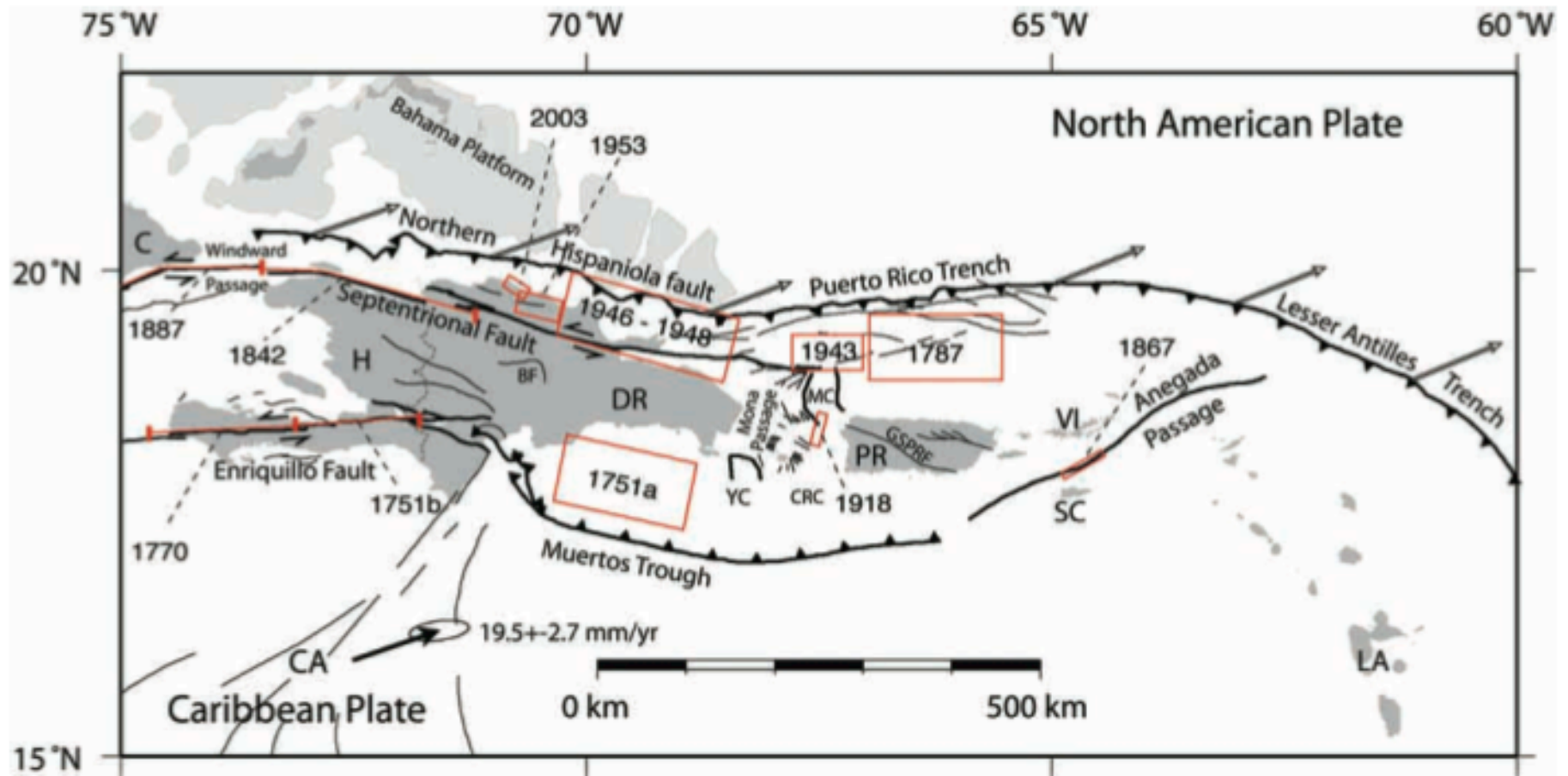
<http://news.discovery.com/earth/haiti-earthquake-damage.html>



$(2010-1751) \times 7 \text{ mm/yr} = 1813 \text{ mm accumulated}$

Could give magnitude 7.2

Manaker et al, 2008



What's next?

Manaker et al, 2008