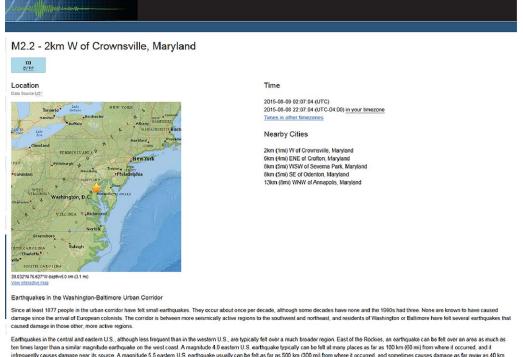
## 2.2 Magnitude Earthquake, Crownsville, MD, 8/8/2015



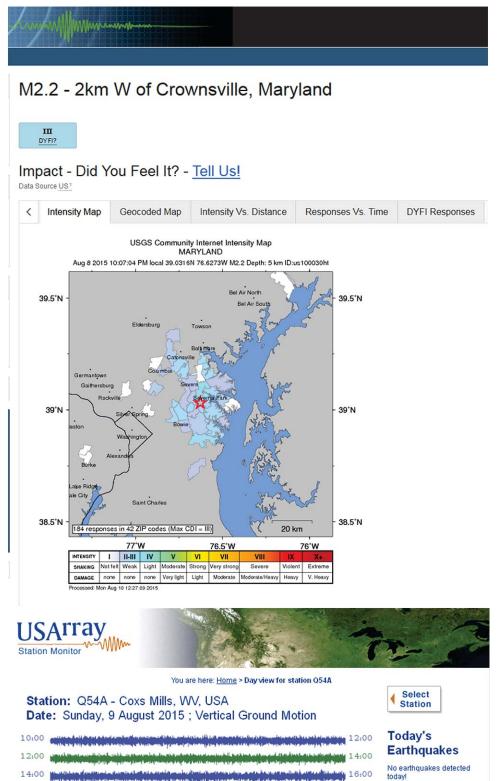
infrequently causes damage near its source. A magnitude 5.5 eastern U.S. earthquake usually can be feit as far as 500 km (300 m) from where it occurred, and sometimes causes damage as far away as 40 km (25 m).

Faults

At well-studied plate boundaries like the San Andreas fault system in California, often scientists can determine the name of the specific fault that is responsible for an earthquake. In contrast, east of the Rocky Mountains this is rarely the case. The Washington - Baltimore urban corridor is far from the nearest plate boundaries, which are in the center of the Atlantic Ocean and in the Caribbean Sea. The urban corridor is laced with known faults but numerous smaller or deeply buried faults remain undetected. Even the known faults are poorly located at earthquake depths. Accordingly, few, if any, earthquakes in the urban corridor can be linked to anemde faults. It is difficult to determine if a known studit is still active and could sip and cause an earthquake. As in most other areas east of the Rockes, the best guide to earthquake the acards in the

Felt at Annapolis, Maryland.





Recent

Earthquakes
Off Coast Of Ecuador, 08/07
12:18 PM, M=5.3, Depth: 10

Near East Coast Of Australia, 08/01 03:38 AM, M=5.6, Depth

AM, M=6.2, Depth: 121 km



III

## Scientific - Origin

Phase Arrival Tim	nes						
Sort by Distance	Download						
Channel	Distance	Azimuth	Phase	Arrival Time	Status	Residual	Weigh
NQ CAPTL HNZ 01	0.33°	244.65°	Pg	02:07:10.98	manual	0.10	2.7
NQ WNC HNZ 01	0.36°	253.89°	Pg	02:07:11.66	manual	0.10	2.6
NQ WNC HNN 01	0.36°	253.89°	Sg	02:07:16.86	manual	0.60	1.2
LD SDMD HHZ	0.41°	336.43°	Pg	02:07:11.87	manual	-0.60	2.5
LD SDMD HHE	0.41°	336.43°	Sg	02:07:17.80	manual	-0.10	1.2
LD MVL HHZ	0.99°	12.40°	Pg	02:07:23.66	manual	0.10	1.5
US CBN BHZ 00	1.01°	215.52°	Pg	02:07:23.30	manual	-0.60	1.4
US CBN BH2 00	1.01°	215.52°	Sg	02:07:37.99	manual	0.90	0.0
TA P60A BHZ	1.09°	44.29°	Pg	02:07:25.50	manual	0.00	1.4
N4 P57A BHZ	1.17°	293.20°	Pn	02:07:26.83	manual	-0.60	1.2
N4 P57A BHN	1.17°	293.20°	Sn	02:07:42.41	manual	-1.30	0.8
LD WUPA BHZ	1.20°	40.98°	Pg	02:07:27.66	manual	0.10	1.3
N4 R58B BHZ	1.45°	223.03°	Pn	02:07:30.04	manual	-1.30	1.2
N4 R58B BHN	1.45°	223.03°	Sn	02:07:49.10	manual	-1.60	0.8
SE JSRW EHZ	1.66°	216.76°	Pn	02:07:32.96	manual	-1.20	1.
N4 N58A BHZ	1.81°	357.87°	Pn	02:07:37.02	manual	0.80	1.
N4 T60A BHZ	1.89°	182.61°	Pn	02:07:35.66	manual	-1.70	1.
TA O56A BHZ	1.94°	310.14°	Pn	02:07:39.21	manual	1.10	1.
N4 Q56A BHZ	1.99°	271.08°	Pn	02:07:38.87	manual	0.00	1.1
N4 T59A BHZ	2.18°	199.88°	Pn	02:07:42.40	manual	1.00	1.

Not felt in West Virginia but seismologists used the signals from two WV seismic stations (highlighted in yellow) to locate the hypocenter of the quake.