

EK14

EK26

EK13

EK36

EK25

EK12

EK35

EK23

FLKY

EK34

EK33

EK21

EK32

ROKY

EK20

BHKY

SOKY

HEKY

LOKY

LLKY

FMKY

None Very Light Light Moderate Moderate/

IV

November 12, 2017 Halabjah, Iraq (M 7.3)

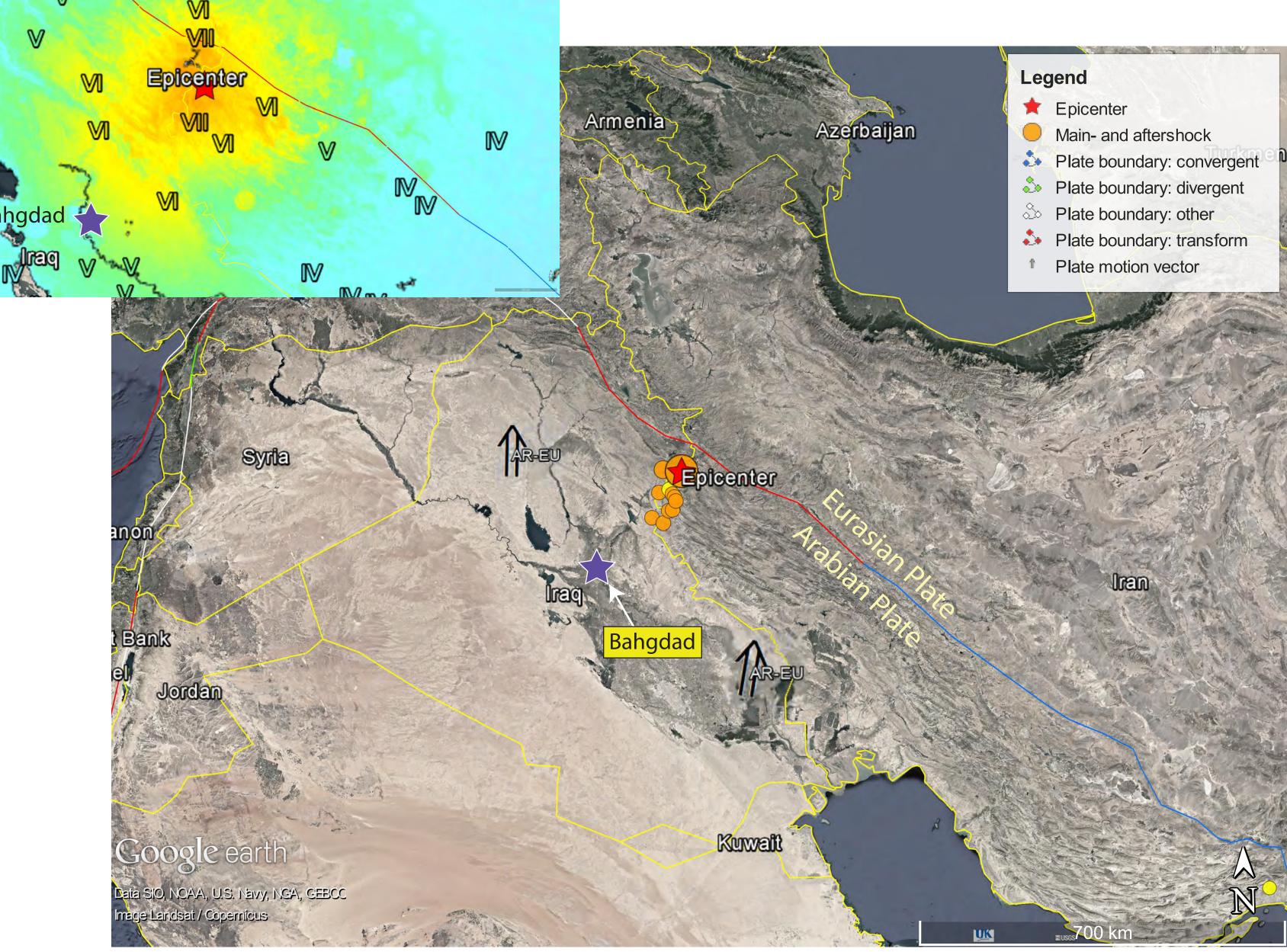
18:18:17 UTC / 12:18:17 at epicenter



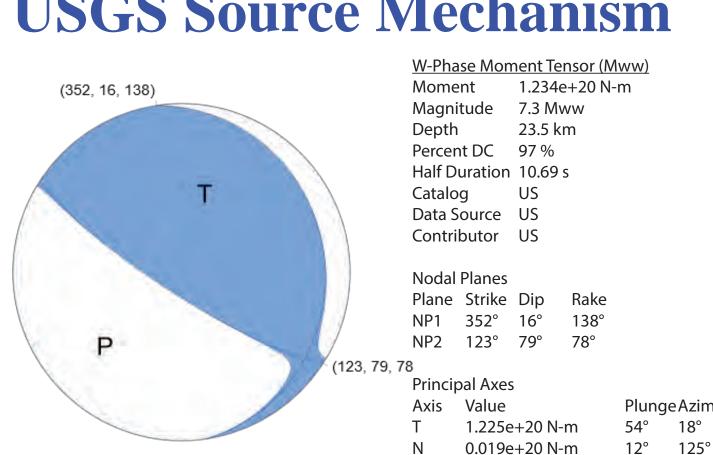




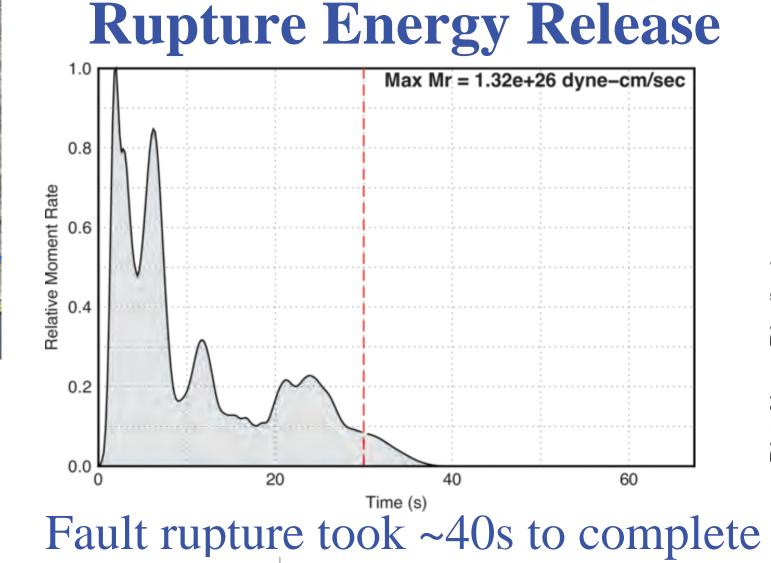
The November 12, 2017 magnitude 7.3 earthquake near the border of Iraq and Iran occurred at a mid-crustal depth of ~25 km within the Arabian tectonic plate, near the Eurasian-Arabian plate boundary. Very strong shaking was experienced (see modeled intensities, inset on left, and Felt Reports, below) from this earthquake: large buildings in nearby cities in Iraq and Iran have been extensively damaged or destroyed, and hundreds of deaths of been reported. **USGS Source Mechanism USGS** Felt Reports

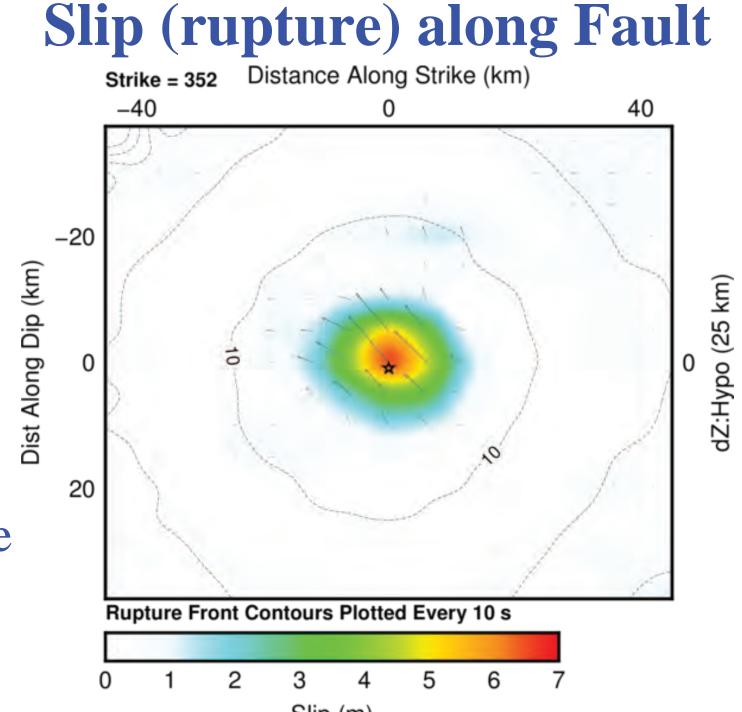


36°N



This mechanism indicates thrust faulting on a southwest- or northeastdipping fault plane.

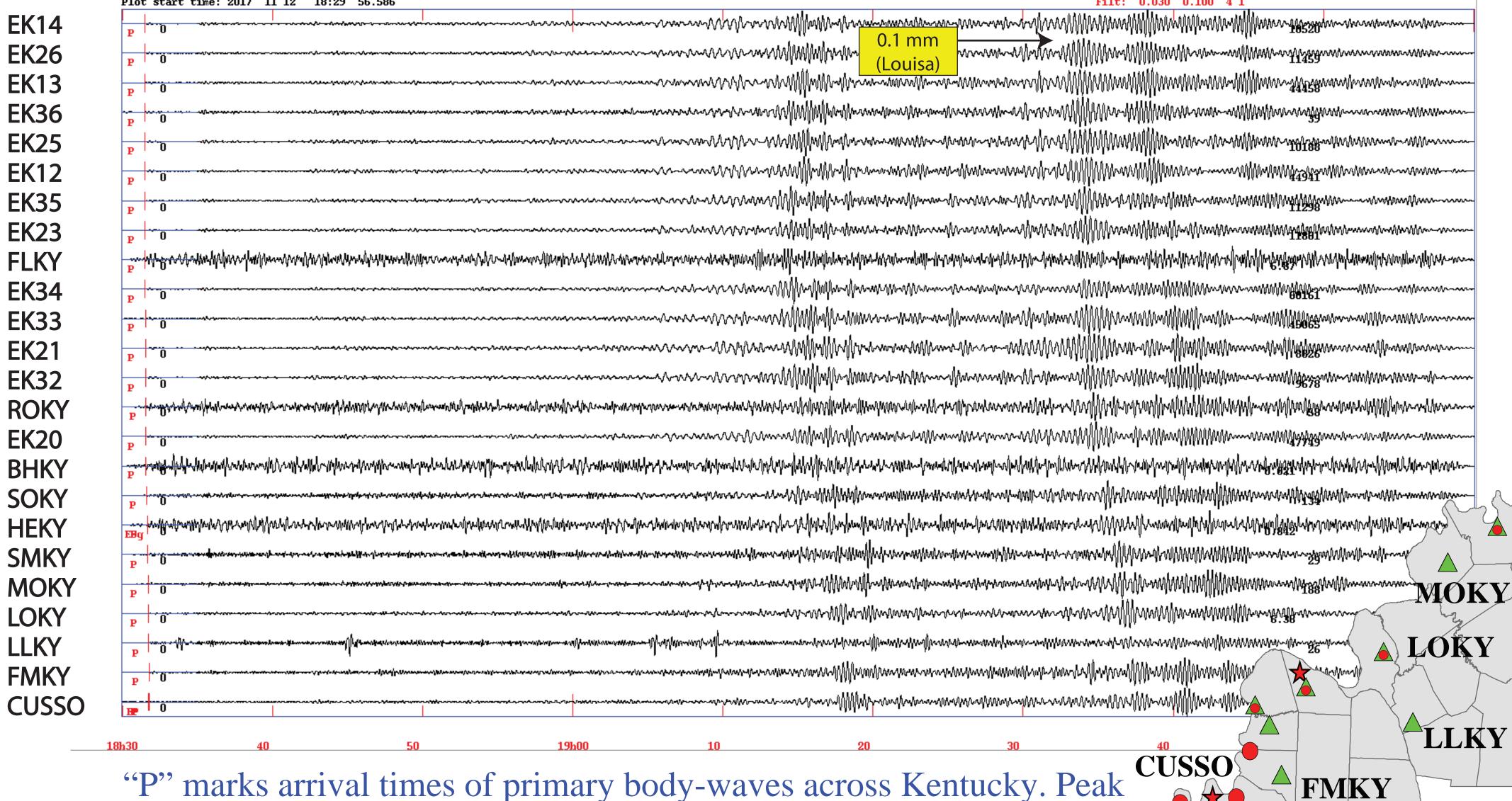




Slip of up to 7 m may have occurred (at ~25 km depth).

ROKY

BHKY



KSSMN Seismograms

 $(\sim 10,500 \text{ km away})$

HEKY **≜** \$MKY SOKY

Legend

Weak Motion Station

(velocity sensor)

Strong Motion Station (acceleration sensor)

(velocity & acceleration sensors)

Vertical Seismic Array

multiple down-hole sensors)

Temporary weak-motion station

KSSMN Seismic Stations Stations with seismograms are labeled by name.

"P" marks arrival times of primary body-waves across Kentucky. Peak up-and-down surface-wave displacement recorded at EK26 is labeled.