

Waveform relocated earthquake catalog for Oklahoma and Southern Kansas illuminates the regional fault network

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Catalog of relocated earthquakes

Below we describe the columns of the catalog that is contained in TableS1.csv.

Column	Description
<i>eventid</i>	Running ID number
<i>year</i>	Origin time, year
<i>month</i>	Origin time, month
<i>day</i>	Origin time, day
<i>hour</i>	Origin time, hour
<i>minute</i>	Origin time, minute
<i>second</i>	Origin time, second
<i>lat</i>	Hypocenter latitude
<i>lon</i>	Hypocenter longitude
<i>depth</i>	Hypocenter depth, relative to surface
<i>mag</i>	Preferred magnitude from NEIC, if available, otherwise from OGS
<i>mag_label</i>	Magnitude type given in column <i>mag</i>
<i>dmin</i>	Distance to closest station [km]
<i>gap</i>	Maximum gap between stations for absolute location [°]
<i>abs_err_h</i>	Absolute horizontal location precision (1- σ) from HYPOINVERSE-2000
<i>abs_err_z</i>	Absolute vertical location precision (1- σ) from HYPOINVERSE-2000
<i>rel_err_h</i>	Relative horizontal location precision (1- σ) from jackknife tests with hypoDD
<i>rel_err_z</i>	Absolute vertical location precision (1- σ) from jackknife tests with hypoDD
<i>rms</i>	RMS residual for absolute locations
<i>nctp</i>	Number of catalog P-wave data
<i>ncts</i>	Number of catalog S-wave data
<i>rms_ct</i>	RMS residual for catalog data
<i>nccp</i>	Number of cross-correlation P-wave data
<i>nccs</i>	Number of cross-correlation S-wave data
<i>rms_cc</i>	RMS residual for cross-correlation data
<i>neic_id</i>	earthquake ID used by NEIC
<i>ogs_id</i>	earthquake ID used by OGS