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| Parameter | Definition |
| country | The country in which the project and the induced earthquake took place. |
| location | The location of the project or the induced earthquake. It may contain the name of a geographical place, an injection site, a hydrocarbon field, a geological basin and/or a laboratory name. |
| latitude | The latitude of the project location in the WGS84 reference system in decimal degrees [°] |
| longitude | The longitude of the project location in the WGS84 reference system in decimal degrees [°] |
| project\_type | The type of geoenergy project that induced seismicity. Project types included in the database include geologic gas storage, geothermal energy, hydraulic fracturing, wastewater disposal and research projects. |
| sub\_class | Sub-categories under a specific project type. Sub-categories are defined to differentiate between different types of activities conducted under the same project types. |
| rock\_formation | The name of the geologic formation in which fluid injection, extraction, or circulation was carried out. |
| rock\_strat | The stratigraphy type of the geologic formation in which fluid injection, extraction, or circulation was carried out. |
| rock\_fr\_dens\_min | The minimum number of fracture density: the number of fractures per unit thickness of the rock crossed by a wellbore [1/m] |
| rock\_fr\_dens\_max | The maximum number of fracture density: the number of fractures per unit thickness of the rock crossed by a wellbore [1/m] |
| rock\_dens\_min | The minimum value of the bulk density of the rock [kg/m3] |
| rock\_dens\_max | The maximum value of the bulk density of the rock [kg/m3] |
| rock\_poro\_min | The minimum value of the effective porosity of the rock matrix [-] |
| rock\_poro\_max | The maximum value of the effective porosity of the rock matrix [-] |
| rock\_poro\_mean | The average value of the effective porosity of the rock matrix [-] |
| rock\_perm\_min | The minimum value of the intrinsic permeability of the rock [m2] |
| rock\_perm\_max | The maximum value of the intrinsic permeability of the rock [m2] |
| rock\_perm\_mean | The average value of the intrinsic permeability of the rock [m2] |
| rock\_E\_min | The minimum value of Young’s modulus of the rock [GPa] |
| rock\_E\_max | The maximum value of Young’s modulus of the rock [GPa] |
| rock\_E\_mean | The average value of Young’s modulus of the rock [GPa] |
| rock\_nu\_min | The minimum value of Poisson’s ratio of the rock [-] |
| rock\_nu\_max | The maximum value of Poisson’s ratio of the rock [-] |
| rock\_nu\_mean | The average value of Poisson’s ratio of the rock [-] |
| rock\_K\_min | The minimum value of the bulk modulus of the rock [GPa] |
| rock\_K\_max | The maximum value of the bulk modulus of the rock [GPa] |
| rock\_G\_min | The minimum value of the shear modulus of the rock [GPa] |
| rock\_G\_min | The maximum value of the shear modulus of the rock [GPa] |
| rock\_biot\_min | The minimum value of the Biot coefficient of the rock [-] |
| rock\_biot\_max | The maximum value of the Biot coefficient of the rock [-] |
| rock\_phi\_min | The minimum value of the internal friction angle of the rock [°] |
| rock\_phi\_max | The maximum value of the internal friction angle of the rock [°] |
| rock\_c\_min | The minimum value of the inherent cohesion of the rock [MPa] |
| rock\_c\_max | The maximum value of the inherent cohesion of the rock [MPa] |
| rock\_ucs\_min | The minimum value of the unconfined compressive strength of the rock [MPa] |
| rock\_ucs\_max | The maximum value of the unconfined compressive strength of the rock [MPa] |
| rock\_T0\_min | The minimum value of the tensile strength of the rock [MPa] |
| rock\_T0\_max | The maximum value of the tensile strength of the rock [MPa] |
| rock\_lambda\_min | The minimum value of the thermal conductivity of the rock [W/m°K] |
| rock\_lambda\_max | The maximum value of the thermal conductivity of the rock [W/m°K] |
| rock\_beta\_min | The minimum value of the thermal expansion coefficient of the rock [1/°K] |
| rock\_beta\_max | The maximum value of the thermal expansion coefficient of the rock [1/°K] |
| site\_depth\_bas\_min | The minimum value of the depth of the basement at the injection site [m] |
| site\_depth\_bas\_max | The maximum value of the depth of the basement at the injection site [m] |
| sit\_s\_reg | Stress regime at the injection site: strike-slip (SS), normal faulting (NF) or reverse faulting (RF) |
| site\_sv\_a | Vertical (overburden) stress gradient at the injection site [MPa/m] |
| site\_sv\_b | Surface value of the vertical (overburden) stress at the injection site [MPa] |
| site\_sv\_min | The minimum value of the vertical (overburden) stress in the injection interval [MPa] |
| site\_sv\_max | The maximum value of the vertical (overburden) stress in the injection interval [MPa] |
| site\_shmax\_a | The maximum horizontal stress gradient at the injection site [MPa/m] |
| site\_shmax\_b | The surface value of the maximum horizontal at the injection site [MPa] |
| site\_shmax\_min | The minimum value of the maximum horizontal stress in the injection interval [MPa] |
| site\_shmax\_max | The maximum value of the maximum horizontal stress in the injection interval [MPa] |
| site\_shmin\_a | The minimum horizontal stress gradient at the injection site [MPa/m] |
| site\_shmin\_b | The surface value of the minimum horizontal at the injection site [MPa] |
| site\_shmin\_min | The minimum value of the minimum horizontal stress in the injection interval [MPa] |
| site\_shmin\_max | The maximum value of the minimum horizontal stress in the injection interval [MPa] |
| site\_shmax\_dir\_min | The minimum value of the maximum horizontal stress direction from North at the injection site [°] |
| site\_shmax\_dir\_max | The maximum value of the maximum horizontal stress direction from North at the injection site [°] |
| site\_p\_a | Pore pressure gradient at the injection site [MPa/m] |
| site\_p\_b | The surface value of the pore pressure at the injection site [MPa] |
| site\_p\_min | The minimum value of the pore pressure in the injection interval [MPa] |
| site\_p\_max | The maximum value of the pore pressure in the injection interval [MPa] |
| site\_T\_min | The minimum value of the temperature in the injection interval [°C] |
| site\_T\_max | The maximum value of the temperature in the injection interval [°C] |
| fault\_strike\_min | The minimum value of the strike orientation of the fault [°] |
| fault\_strike\_max | The maximum value of the strike orientation of the fault [°] |
| fault\_dip\_min | The minimum value of the dip angle of the fault [°] |
| fault\_dip\_max | The maximum value of the dip angle of the fault [°] |
| fault\_dip\_dir\_min | The minimum value of the dip direction of the fault [°] |
| fault\_dip\_dir\_max | The maximum value of the dip direction of the fault [°] |
| fault\_name | The name of the potential fault that triggered the earthquake |
| fault\_type | The tectonic type of the fault: strike-slip (SS), normal faulting (NF) or reverse faulting (RF) |
| fault\_thick\_min | The minimum value of the total thickness of the fault [m] |
| fault\_thick\_max | The maximum value of the total thickness of the fault [m] |
| fault\_core\_thick\_min | The minimum value of the thickness of the core part of the fault [m] |
| fault\_core\_thick\_max | The maximum value of the thickness of the core part of the fault [m] |
| fault\_dist\_inj | The horizontal distance between the wellbore and the fault [m] |
| fault\_inj\_depth\_min | The minimum value of depth at which the wellbore intersects the fault [m] |
| fault\_inj\_depth\_max | The maximum value of depth at which the wellbore intersects the fault [m] |
| fault\_dens\_min | The minimum value of the density of the rock forming the fault [kg/m3] |
| fault\_dens\_max | The maximum value of the density of the rock forming the fault [kg/m3] |
| fault\_poro\_min | The minimum value of the porosity of the fault [-] |
| fault\_poro\_max | The maximum value of the porosity of the fault [-] |
| fault\_perm\_min | The minimum value of the intrinsic permeability of the fault [m2] |
| fault\_perm\_max | The maximum value of the intrinsic permeability of the fault [m2] |
| fault\_Kn\_min | The minimum value of the normal stiffness of the fault [GPa/m] |
| fault\_Kn\_max | The maximum value of the normal stiffness of the fault [GPa/m] |
| fault\_Ks\_min | The minimum value of the shear stiffness of the fault [GPa/m] |
| fault\_Ks\_max | The maximum value of the shear stiffness of the fault [GPa/m] |
| fault\_psi\_min | The minimum value of the dilation angle of the fault [°] |
| fault\_psi\_max | The maximum value of the dilation angle of the fault [°] |
| fault\_E\_min | The minimum value of Young’s modulus of the rock forming the fault [GPa] |
| fault\_E\_max | The maximum value of Young’s modulus of the rock forming the fault [GPa] |
| fault\_nu\_min | The minimum value of Poisson’s ratio of the rock forming the fault [-] |
| fault\_nu\_max | The maximum value of Poisson’s ratio of the rock forming the fault [-] |
| fault\_phi\_min | The minimum value of the friction angle of the fault [°] |
| fault\_phi\_max | The maximum value of the friction angle of the fault [°] |
| inj\_depth\_min | The minimum depth of the injection interval [m] |
| inj\_depth\_max | The maximum depth of the injection interval [m] |
| inj\_type | The type of the fluid injection |
| int\_start | The date of starting the injection |
| inj\_fluid | The type of the injected fluid |
| inj\_T | The temperature of the injected fluid [°C] |
| inj\_rate\_max | The maximum value for the rate of injection [m3/s] |
| inj\_vol\_min | The minimum value of the total volume of the injected fluid [m3] |
| inj\_vol\_max | The maximum value of the total volume of the injected fluid [m3] |
| inj\_net\_vol\_min | The minimum value of the net volume of (injected volume - produced volume) the injected fluid [m3] |
| inj\_net\_vol\_max | The maximum value of the net volume of (injected volume - produced volume) the injected fluid [m3] |
| inj\_up\_p | The maximum value of the wellhead pressure during injection [MPa] |
| inj\_down\_p | The maximum value of the bottomhole pressure during injection [MPa] |
| seism\_onset | The date of the onset of induced seismicity |
| seism\_time\_shift\_onset | The delay between the starting injection and the onset of seismicity [d] |
| seism\_events | The number of seismic events recorded |
| seism\_depth\_min | The minimum depth of the interval at which seismic events occurred [m] |
| seism\_depth\_max | The maximum depth of the interval at which seismic events occurred [m] |
| seism\_a\_before | The a-value of the Gutenberg-Richter empirical law for seismic events before injection |
| seism\_b\_before | The b-value of the Gutenberg-Richter empirical law for seismic events before injection |
| seism\_a\_during | The a-value of the Gutenberg-Richter empirical law for seismic events during injection |
| seism\_b\_during | The b-value of the Gutenberg-Richter empirical law for seismic events during injection |
| seism\_a\_after | The a-value of the Gutenberg-Richter empirical law for seismic events after injection |
| seism\_b\_after | The b-value of the Gutenberg-Richter empirical law for seismic events after injection |
| moment\_max | The magnitude of the largest earthquake |
| moment\_max\_type | The scale of the reported earthquake magnitude |
| moment\_max\_depth\_min | The minimum value of the depth at which the largest earthquake was nucleated |
| moment\_max\_depth\_max | The maximum value of the depth at which the largest earthquake was nucleated |
| moment\_distance | The value of the distance between the injection and the epicenter of the largest earthquake |
| moment\_date | The date on which the largest earthquake happened |
| reason | A text describing the reasons or mechanisms of the occurrence of seismic events |
| comment | A text containing any additional notes on the project, injection conditions, and observed seismicity |
| Data\_sources | A text containing references used for deriving the described database parameters |