

Map of Quaternary Faults and Folds of Argentina

 A project of International Lithosphere Program Task Group II-2,
Major Active Faults of the World

 A cooperative project between the U.S. Geological Survey (USGS) and
the National University of San Luis (UNSL).

Data compiled by Carlos H. Costa (UNSL).

 Digital representation by Richard L. Dart (USGS), Guillermo E. Ojeda and Ricardo Morán (UNSL).
Project coordination by Michael N. Machette (Co-chairman, ILP Task Group II-2).

2000

 Scale 1:4,000,000 Equirectangular Projection
(Longitude of central meridian, 63°30'W; latitude of true scale, 0°)

Mapa de Fallas y Pliegues Cuaternarias de Argentina

 Proyecto Internacional de la Litosfera, Grupo de Trabajo II-2,
Principales Fallas Activas del Mundo

 Un proyecto de cooperación entre el U.S. Geological Survey (USGS) y
la Universidad Nacional de San Luis (UNSL).

Datos compilados por Carlos H. Costa (UNSL).

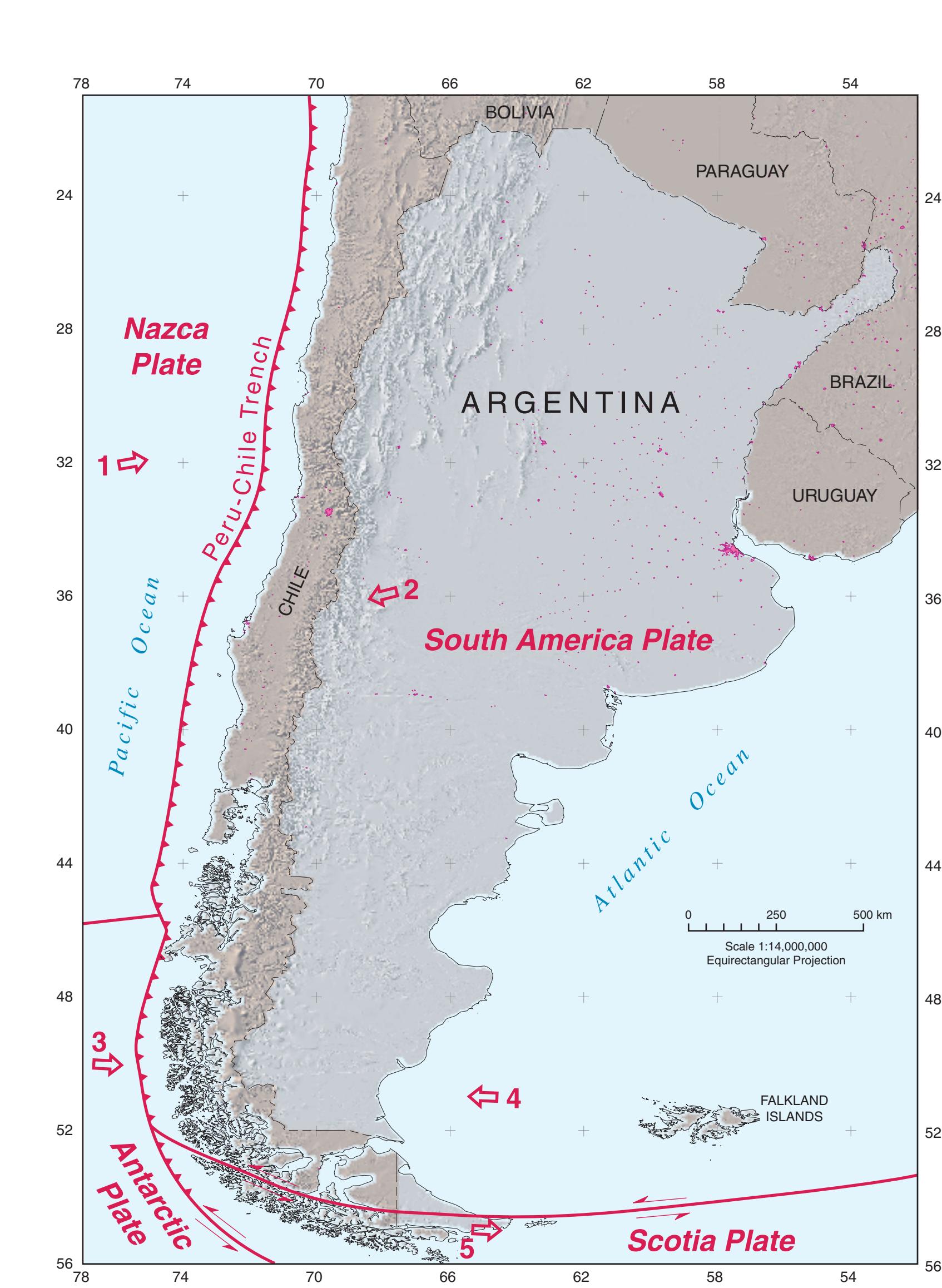
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2000

 Escala 1:4,000,000 Proyección Equirectangular
(longitud de meridiano central, 63°30'W; latitud de escala verdadera 0°)

**QUATERNARY FAULTS AND FOLDS OF ARGENTINA
FALLAS Y PLIEGUES CUATERNARIAS DE ARGENTINA**

| Number | Name of structure | Sense of movement (major/minor) | Time of most recent movement | Slip rate (mm/yr) |
|--------|---|-------------------------------------|------------------------------|-----------------------------|
| Número | Nombre de estructura | Sentido de movimiento (mayor/minor) | Edad del último movimiento | Tasa de movimiento (mm/año) |
| AR-01 | Aguilar-Este-Sierra de Cajas fault zone (Zona fallas de Aguilar-Este-Sierra de Cajas) | Reverse | <1.6 Ma | Unknown |
| AR-02 | Acuña fault (Falla Acuña) | Normal, reverse with strike slip | <1.6 Ma | Unknown |
| AR-03 | Calafate-Catamarca fault (Grande de Calafate-La Catamarca) | Normal, reverse with strike slip | <1.6 Ma | Unknown |
| AR-04 | Pipanaco fault (Falla Pipanaco) | Unknown | <1.6 Ma | Unknown |
| AR-05 | Quemado-Chimborocha fault | Unknown | <1.6 Ma | Unknown |
| AR-06 | Jaquez fault (Falla Jaquez) | Unknown | <1.6 Ma | Unknown |
| AR-07 | La Brava fault (Falla La Brava) | Unknown | <1.6 Ma | Unknown |
| AR-08 | El Leoncito fault (Falla El Leoncito) | Unknown | <1.6 Ma | Unknown |
| AR-09 | Cachiyuy fault (Falla Cachiyuy) | Unknown | <1.6 Ma | Unknown |
| AR-10 | La Troya fault (Falla Troya) | Unknown | <1.6 Ma | Unknown |
| AR-11 | Cachiyuy-Los Berros fault (Falla Cachiyuy-Los Berros) | Unknown | <1.6 Ma | Unknown |
| AR-12 | Bolsa fault (Falla La Bolsa) | Dextral? | <15 ka, historic? | Unknown |
| AR-13 | Bolsa fault (Falla La Bolsa) | Dextral | <15 ka, historic? | Unknown |
| AR-14 | Punilla fault (Falla Punilla) | Strike s/p normal? | <1.6 Ma | Unknown |
| AR-15 | Piambante-Piambante fault (Falla Piambante-Piambante) | Strike s/p normal? | <15 ka | Unknown |
| AR-16 | Falla Piambante-Las Flores | Strike s/p normal? | <1.6 Ma | 1-5 |
| AR-17 | El Tigre fault (Falla El Tigre) | Reversal? | <1.6 Ma | Unknown |
| AR-18 | La Dethesa fault (Falla La Dethesa) | Reverse? | <15 ka | 0.2-1 |
| AR-19 | Maradona-Acaso fault (Falla Maradona-Acaso) | Reverse (mainly) | <15 ka | 0.2-1 |
| AR-20 | Las Tapas-Villavicencio fault | Reverse | <1.6 Ma | Unknown |
| AR-21 | La Laja fault (Falla La Laja) | Reverse | Historic (1944) | 1-5 |
| AR-22 | Rinconada fault (Falla Rinconada) | Reverse | Historic (1952) | 1-5 |
| AR-23 | Los Berros fault (Falla Los Berros) | Reverse | <15 ka | 0.2-1 |
| AR-24 | Cerro Salinas fault (Falla Cerro Salinas) | Reverse (mainly) | <1.6 Ma | Unknown |
| AR-25 | Punta del Agua fault (Falla Punta del Agua) | Reverse | Historic (1977) | 1-5 |
| AR-26 | Falla Ampangaca-Niquizalas | Unknown | Unknown | Unknown |
| AR-27 | Pujilí fault (Falla Pujilí) | Reverse/reversal? | <1.6 Ma | 1-5 |
| AR-28 | Las Chacras fault (Falla Las Chacras) | Reverse? | <15 ka | 1-5 |
| AR-29 | Las Peñas fault (Falla Las Peñas) | Anticline | <15 ka, historic? (1861) | 1-5 |
| AR-30 | Cerro La Cuchilla fault (Falla Cerro La Cuchilla) | Reverse? | <1.6 Ma, <15 ka? | 0.2-1 |
| AR-31 | Capdeville-Bordillon fold | Anticlines | <15 ka | 1-5 |
| AR-32 | Cerro de la Gloria fault (Falla Cerro de la Gloria) | Reverse | <15 ka | Unknown |
| AR-33 | Melocoton fault (Falla Melocoton) | Reverse | <15 ka | 0.2-1 |
| AR-34 | Almendrales fault (Falla Almendrales) | Reverse? | <15 ka | Unknown |
| AR-35 | Lomas Bayas fault (Falla Lomas Bayas) | Anticline | <15 ka | Unknown |
| AR-36 | Punta del Agua fault (Falla Punta del Agua) | Unknown, reversal strike slip | <1.6 Ma | Unknown |
| AR-37 | East Barreal fault (Falla East Barreal) | Reverse and anticlines | Historic (1985) | 1-5 |
| AR-38 | West Barrancas fault and folds | Reverse and anticlines | Historic (1985) | 1-5 |
| AR-39 | Chubutian fault (Falla Chubutian) | Unknown | <1.6 Ma | Unknown |
| AR-40 | Huayqueras fault (Falla Huayqueras) | Strike s/p? | <1.6 Ma | Unknown |
| AR-41 | Chilet fault (Falla Chilet) | Strike s/p? | <1.6 Ma | Unknown |
| AR-42 | El Leoncito fault (Falla El Leoncito) | Strike s/p? | <15 ka | Unknown |
| AR-43 | Papagoyos fault (Falla Papagoyos) | Dextral? | <1.6 Ma | Unknown |
| AR-44 | Diamante fault (Falla Diamante) | Strike s/p? | <1.6 Ma | Unknown |
| AR-45 | Malargüe fault (Falla Malargüe) | Strike s/p? | <15 ka | Unknown |
| AR-46 | Malargüe fault (Falla Malargüe) | Unknown | <1.6 Ma | Unknown |
| AR-47 | Payan fault (Falla Payan) | Unknown | <1.6 Ma | Unknown |
| AR-48 | La Higuera fault (Falla La Higuera) | Reverse | <15 ka | Unknown |
| AR-49 | Lorenzillo fault (Falla Lorenzillo) | Reverse | <1.6 Ma | 0.2-1 |
| AR-50 | Potrerito fault (Falla Potrerito) | Reverse? | <15 ka | 0.2-1 |
| AR-51 | Potero fault (Falla Potero) | Normal/strike slip? | <1.6 Ma | 0.2-1 |
| AR-52 | Nono fault (Falla Nono) | Reverse | <15 ka | 0.2-1 |
| AR-53 | Sierra Baja de San Marcos fault (Falla Sierra Baja de San Marcos) | Reverse | <1.6 Ma | Unknown |
| AR-54 | Sierra Chica fault zone (Zona falla Sierra Chica) | Reverse | <1.6 Ma | Unknown |
| AR-55 | Cosquin fault (Falla Cosquin) | Reverse | <1.6 Ma | Unknown |
| AR-56 | Carretera San Pedro fault (Falla San Pedro) | Reverse | <1.6 Ma, <15 ka? | Unknown |
| AR-57 | Punta de Garay fault (Falla Punta de Garay) | Reverse | <1.6 Ma | Unknown |
| AR-58 | Sampanderean zone (Zona falla Sampanderean) | Reverse? | <15 ka | Unknown |
| AR-59 | Sauco Chico fault (Falla Sauco Chico) | Reverse? | <15 ka | Unknown |
| AR-60 | Lago Fagnano fault (Falla Lago Fagnano) | Synclinal | Historic (1947) | 1-5 |
| AR-61 | El Talar branch of Comechingones fault (Falla El Talar) | Unknown | <1.6 Ma | Unknown |
| AR-62 | Dividadero Lang fault (Falla Dividadero Lang) | Reverse | <1.6 Ma | Unknown |
| AR-63 | Carritaz-La Ventana-Punta de las Bardas-Vacas fault (Falla Carritaz-La Ventana-Punta de las Bardas-Vacas) | Anticline | <15 ka | 0.2-1 |
| AR-64 | Zonda fault (Falla Zonda) | Reverse | <15 ka | Unknown |
| AR-65 | Blanquitos fault (Falla Blanquitos) | Reverse | <15 ka | Unknown |
| AR-66 | La Cuchilla fault (Falla La Cuchilla) | Reverse | <15 ka | Unknown |
| AR-67 | El Carrizal fault (Falla El Carrizal) | Reverse | <1.6 Ma | Unknown |
| AR-68 | El Alcazar fault (Falla El Alcazar) | Reverse | <1.6 Ma | Unknown |
| AR-69 | El Carrizal-Carrizalito fault (Falla El Carrizal-Carrizalito) | Reverse | <1.6 Ma | Unknown |
| AR-70 | Patagonia Viejo fault (Falla Patagonia Viejo) | Reverse | <1.6 Ma | Unknown |
| AR-71 | Valguzar fault group (Grupo de fallas Valguzar) | Reverse | <1.6 Ma | Unknown |
| AR-72 | Agua de Jaguas-Pecos fault (Fallas Agua de Jaguas-Pecos) | Reverse and normal | <1.6 Ma | Unknown |
| AR-73 | Sierra de Uspallata fault group (Falla Sierra de Uspallata) | Reverse | <1.6 Ma | Unknown |
| AR-74 | Castro-Tambo fault (Falla Castro-Tambo) | Reverse | <1.6 Ma | Unknown |
| AR-75 | Cachipampa fault (Falla Cachipampa) | Unknown | <1.6 Ma | Unknown |
| AR-76 | Amblayo fault (Falla Amblayo) | Unknown | <1.6 Ma | Unknown |
| AR-77 | Guachipampa fault (Falla Guachipampa) | Unknown | <1.6 Ma | Unknown |
| AR-78 | San Carlos fault group (Falla San Carlos) | Unknown | <1.6 Ma | Unknown |
| AR-79 | Patagonia Viejo fault (Falla Patagonia Viejo) | Reverse | <1.6 Ma | Unknown |
| AR-80 | Agua de Jaguas-Pecos fault (Falla Agua de Pecos) | Strike s/p? | <1.6 Ma | Unknown |
| AR-81 | Agua de Jaguas-Pecos fault (Falla Agua de Pecos) | Reverse | <1.6 Ma | Unknown |
| AR-82 | Alcazar fault group (Falla Alcazar) | Reverse | <1.6 Ma | Unknown |
| AR-83 | La Angostura fault group (Falla La Angostura) | Reverse/normal | <1.6 Ma | Unknown |
| AR-84 | Caldera del Agrio fault group (Falla Caldera del Agrio) | Reverse/reverse | <1.6 Ma | Unknown |
| AR-85 | Caldera del Agrio fault group (Falla Caldera del Agrio) | Normal | <1.6 Ma | Unknown |



MAP EXPLANATION

- TIME OF MOST RECENT SURFACE RUPTURE
 - Historic (year)
 - Holocene (<10,000 yrs) or post glacial (<15,000 yrs)
 - Quaternary, undifferentiated (>1,600,000 yrs)
- SLIP RATE
 - > 5 mm/yr
 - 1-5 mm/yr
 - < 1 mm/yr (or unknown)
- QUALITY
 - Continuous to map scale
 - Discontinuous or poor discontinuous at map scale
 - Inferred or concealed
- STRUCTURE TYPE
 - FAULTS
 - Thrust or reverse fault (teeth on upper block)
 - Right-lateral (dextral) strike-slip fault
 - Left-lateral (sinistral) strike-slip fault
 - Normal fault
 - FOLDS
 - Anticline
 - Syncline
- OTHER SYMBOLS
 - Location of fault section boundary

SIMBOLOGÍA DEL MAPA

- EDAD DE ULTIMA RUPTURA SUPERFICIAL
 - Historica (año)
 - Holocene (<10,000 años) o post glacial (<15,000 años)
 - Cuaternaria, sin diferenciar (>1,600,000 años)
- TAZA DE MOVIMIENTO
 - > 5 mm/año
 - 1-5 mm/año
 - < 1 mm/año (o desconocida)
- CALIDAD
 - Continua a la escala del mapa
 - Pobre o discontinua a la escala del mapa
 - Inferida u oculta
- TIPO DE ESTRUCTURA
 - FALLAS
 - Falla inversa o corriente (triángulos en bloque superior)
 - Falla de rumbo dextral
 - Falla de rumbo sinstral
 - Falla normal (círculo en bloque hundido)
 - PLIEGUES
 - Anticinal
 - Sinusal
- OTROS SÍMBOLOS
 - Extremidad de sección de falla

