

Map of Quaternary Faults and Folds of Colombia and Its Offshore Regions

 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 Gabriel Paris

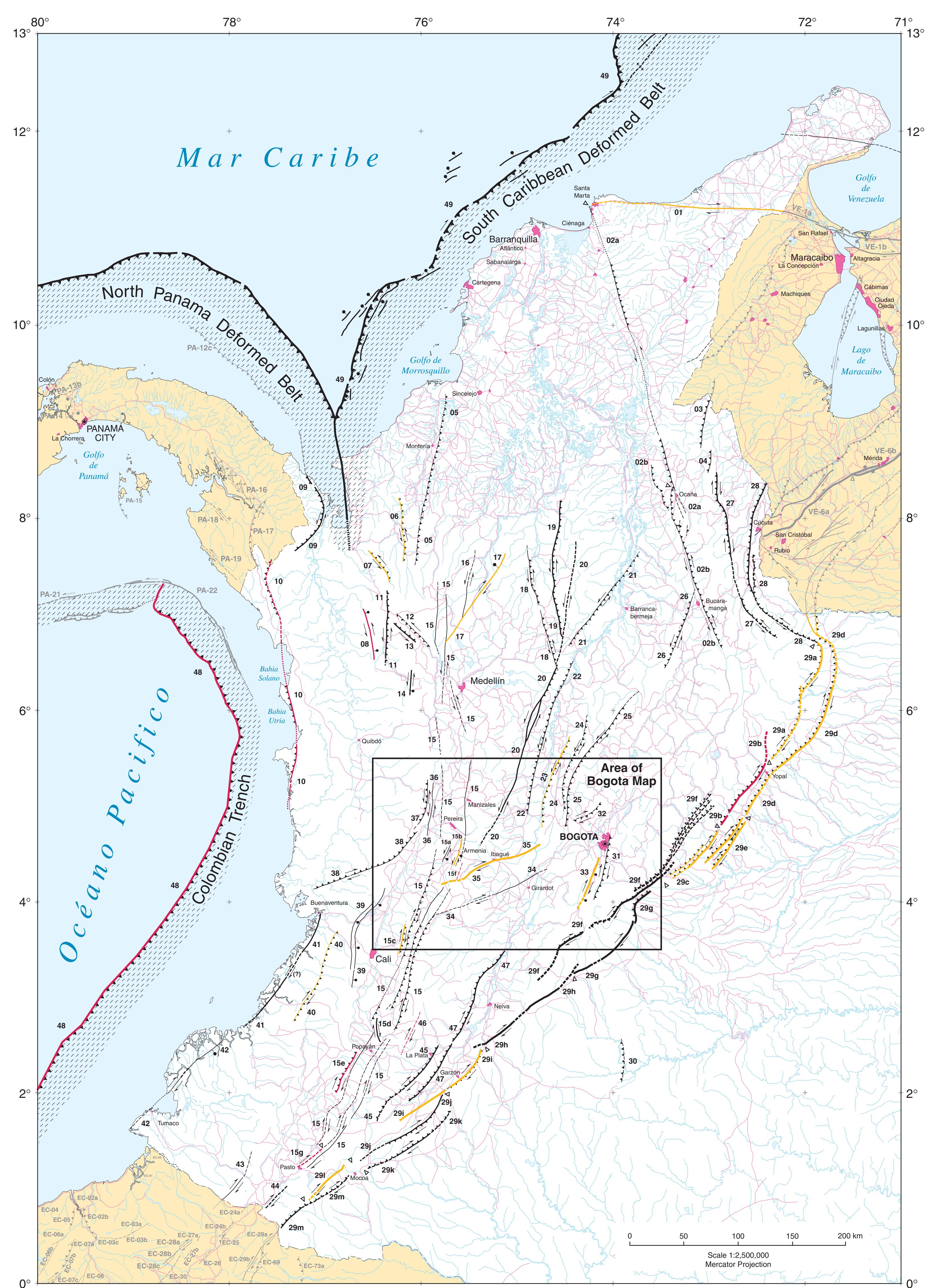
 Data compiled by Gabriel Paris.
Digital representation by Richard L. Dart (USGS).
Project coordination by Michael N. Machette (Co-chairman, ILP Task Group II-2).

2000

Scale 1:2,500,000

Mercator Projection

(longitude of central meridian, 73°W; latitude of true scale 0°; Clarke 1866 spheroid)


Mapa de Fallas y Pliegues Cuaternarias de Colombia y Regiones Oceanicas Adyacentes

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

 Un proyecto de cooperación entre el U.S. Geological Survey (USGS)
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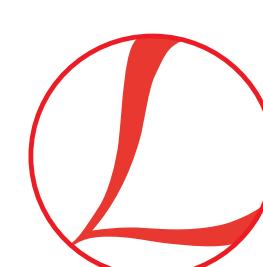
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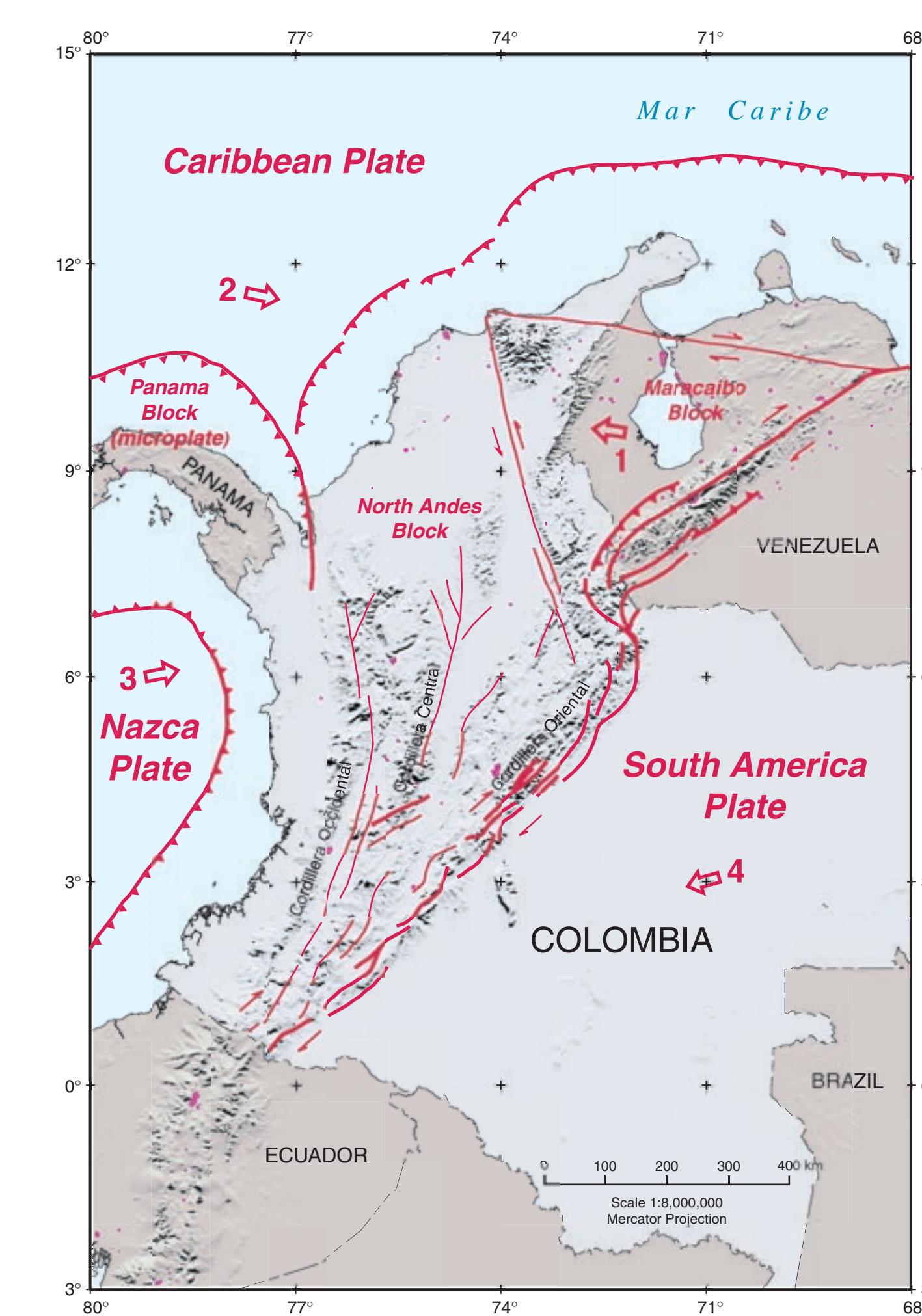
2000

Escala 1:2.500.000

Proyección de Mercator

(longitude de meridiano central, 73°W; latitud de escala verdadera 0°; con base en el esferoide de Clarke 1866)


 International
Lithosphere
Program
(ILP)

 Programa
Internacional
de la Litósfera
(ILP)

 Diagram of major plate boundaries for Colombia
Esquema de límites de placas para Colombia

No.	Location	Fixed Plate	Moving Plate	Velocity	Direction
1	72.5°W/9.5°N	Caribbean	South America	1.3 cm/yr	277°
2	72.5°W/11.5°N	South America	Caribbean	1.3 cm/yr	102°
3	79.0°W/6.0°N	South America	Nazca	6.3 cm/yr	79°
4	71.0°W/3.0°N	Nazca	South America	6.8 cm/yr	255°

Source: Relative Plate Motion Calculator, Nuseiv-1A Model; Kenseki Tamaki, Ocean Research Institute, University of Tokyo, 1-15-1 Minamida, Nakano-ku, Tokyo, 164, Japan (tamaki@ori.u-tokyo.ac.jp)

QUATERNARY FAULTS OF COLOMBIA FALLAS CUATERNARIAS DE COLOMBIA					
Number (CO-)	Name of structure	Sense of movement (major/minor)	Sentido de movimiento (mayor/minor)	Time of most recent movement	Slip rate (mm/yr)
01	Oca fault	Right-lateral	-----	<15 ka, possibly historic (1833 or 1834)	0.2
02	Santa Marta-Bucaramanga fault system	Left-lateral/reverse	<1.6 Ma?	Unknown, probably <0.2	<0.2
02a	Santa Marta section	Left-lateral/reverse	<1.6 Ma?	Unknown, probably <0.2	<0.2
02b	Bucaramanga section	Reverse	<1.6 Ma?	Unknown, probably <0.2	<0.2
03	Ciénaga-Terrón fault	Reverse	<1.6 Ma?	<0.2	<0.2
04	Terrón fault	Reverse	<1.6 Ma?	<0.2	<0.2
05	Montería fault	Reverse	<1.6 Ma?	<0.2	<0.2
06	Túcar fault	Reverse/lateral?	<1.6 Ma?	0.2-1	0.2-1
07	Murindó fault	Left-lateral	<1.6 Ma?	0.2-1	0.2-1
08	Murindó fault	Left-lateral	<1.6 Ma?	0.2-1	0.2-1
09	Unguia fault	Reverse/right lateral	Historic (1992)	Unknown, probably 0.2-1	0.2-1
10	Bahía Solano fault	Reverse	<1.6 Ma?	Historic (1970)	0.2-1
11	Miraflores fault	Reverse-left-lateral	<1.6 Ma?	0.2-1	0.2-1
12	Cácaos-Catatumbo fault	Reverse-left-lateral	<1.6 Ma?	0.2-1	0.2-1
13	Abrasquí fault	Reverse-left-lateral	<1.6 Ma?	0.2-1	0.2-1
14	Urrao fault	Left-lateral	<1.6 Ma?	0.2-1	0.2-1
15	Romeral fault system	Normal/left-lateral	-----	-----	-----
15a	Montería-Ciénaga fault section	Normal/left-lateral	<1.6 Ma?	<0.2	<0.2
15b	Armenia (fault) section	Normal/left-lateral	<1.6 Ma?	<0.2	<0.2
15c	Paraiso section	Thrust/right-lateral	<1.6 Ma?	0.2-1	0.2-1
15d	Piedamó (fault) section	Reverse/right-lateral	<1.6 Ma?	0.2-1	0.2-1
15e	Playon (fault) section	Reverse/right-lateral	Historic (1865)	0.2-1	0.2-1
15f	Cordoba-Nariño (fault) section	Left-lateral	Historic (1995)	0.2-1	0.2-1
15g	Buesaco-Arandá (fault) section	Right-lateral	Historic (1995)	1.5	1.5
16	Santa Rita fault	Left-lateral	<1.6 Ma?	0.2-1	0.2-1
17	Espíritu Santo fault	Normal and right-lateral	<1.6 Ma?	0.2-1	0.2-1
18	Chiriquí Norte fault	Left-lateral/reverse	<1.6 Ma?	0.2-1	0.2-1
19	Bagre Norte fault	Left-lateral and reverse	<1.6 Ma?	0.2-1	0.2-1
20	Palestina fault	Reverse/left-lateral	<1.6 Ma?	0.2-1	0.2-1
21	Cimarrón fault	Reverse/left-lateral?	<1.6 Ma?	0.2-1	0.2-1
22	Manizales-Córdoba fault	Reverse/left-lateral?	<1.6 Ma?	0.2-1	0.2-1
23	Honda fault	Reverse/left-lateral?	<1.6 Ma?	0.2-1	0.2-1
24	Alto del Trigo fault (part of Salinas fault system)	Reverse/left-lateral?	<1.6 Ma?	0.2-1	0.2-1
25	Bituma fault (part of Salinas fault system)	Reverse/left-lateral?	<1.6 Ma?	0.2-1	0.2-1
26	Salinas fault	Reverse/left-lateral?	<1.6 Ma?	0.2-1	0.2-1
27	Morelos-Las Mercedes fault system	Reverse/left-lateral?	<1.6 Ma?	0.2-1	0.2-1
28	Chitigüe-Pampanga faults	Reverse and left-lateral	<1.6 Ma? (probably >750 ka)	Unknown, probably 0.2-1	0.2-1
29a	Eastern Frontal fault system	Reverse/right-lateral	<15 ka	-----	-----
29b	Northern Cauca-Córdoba section	Reverse/right-lateral	Historic (1995)	1.5	1.5
29c	Central Guaviare section	Reverse/right-lateral	<15 ka	1.5	1.5
29d	Southern Guaviare section	Reverse/right-lateral	<15 ka	1.5	1.5
29e	Yopal (fault) section	Reverse/right-lateral	<15 ka	1.5	1.5
29f	San Pedro-Cumaral section	Reverse/right-lateral	<15 ka	1.5	1.5
29g	Servita-San Agustín (fault group) section	Reverse/right-lateral	<15 ka (possibly <15 ka)	1.5	1.5
29h	Guzmán (fault) section	Reverse/left-lateral?	<1.6 Ma (probably <50 ka)	1.5	1.5
29i	Algeciras (fault) section	Right-lateral	<1.6 Ma (probably <130 ka)	1.5	1.5
29j	Garzón-Pitalito (fault) section	Right-lateral?	<1.6 Ma?	0.2-1	0.2-1
29k	Suzza (fault) section	Right-lateral?	<1.6 Ma?	0.2-1	0.2-1
29l	Morelos (fault) section	Right-lateral?	<1.6 Ma?	0.2-1	0.2-1
29m	Sibundoy (fault) section	Right-lateral?	<1.6 Ma?	0.2-1	0.2-1
29n	Altillares (fault) section	Right-lateral?	<1.6 Ma?	0.2-1	0.2-1
30	La Macarena fault	Reverse	<1.6 Ma?	Unknown, probably 0.2-1	0.2-1
31	Popayán fault	Right-lateral	<1.6 Ma?	Unknown, probably 0.2-1	0.2-1
32	Virar fault	Normal/right-lateral	<1.6 Ma?	0.2-1	0.2-1
33	Usme fault	Normal/right-lateral	<1.6 Ma?	0.2-1	0.2-1
34	Cucunubá fault	Right-lateral	<1.6 Ma?	0.2-1	0.2-1
35	Ibagué fault	Right-lateral, slight oblique	<1.6 Ma?	0.2-1	0.2-1
36	Popayán fault	Left-lateral	<1.6 Ma?	0.2-1	0.2-1
37	Argelia fault	Reverse/right lateral?	<1.6 Ma?	0.2-1	0.2-1
38	Garrapatas fault	Reverse/right lateral?	<1.6 Ma?	0.2-1	0.2-1
39	Dolores-Guadalupe fault system	Normal	<1.6 Ma?	0.2-1	0.2-1
40	El Tambo fault	Reverse/right lateral?	<1.6 Ma?	0.2-1	0.2-1
41	Neyra-Micar fault	Right-lateral/oblique	<1.6 Ma?	0.2-1	0.2-1
42	Remolino-El Charco fault	Probably right-lateral/oblique	<1.6 Ma?	Unknown, probably <0.2	0.2-1
43	Piedras Negras fault	Probably right-lateral/oblique	<1.6 Ma?	Unknown, probably <0.2	0.2-1
44	Cuetar fault	Right-lateral	<1.6 Ma?	Unknown, probably <0.2	0.2-1
45	La Plata (Córdoba) fault	Right-lateral/reverse	<1.6 Ma?	Unknown, probably <0.2	0.2-1
46	Irlanda fault	Right-lateral	<1.6 Ma?	Unknown, probably <0.2	0.2-1
47	Dina fault	Reverse/right-lateral	<1.6 Ma?	Unknown, probably <0.2	0.2-1
48	Nazca subduction zone	Thrust	<1.6 Ma?	Historic (1906, 1942, 1958, 1979)	Ca. 70 across zone
49	South Caribbean deformed belt (Colombia fault)	Thrust/dextral oblique	<1.6 Ma (probably <15 ka)	Ca. 10 across belt	Ca. 10 across belt

