U.S. DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY

OPEN FILE REPORT
OFR 00-0283
Plate 1 of 2
Text accompanies map

Map of Quaternary Faults of Bolivia

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),
Research Institute for Development (IRD), and University of Chile (UC).

Data compiled by Alain Lavenu (IRD) and Ricardo Thiele (UC).
Digital representation by Richard L. Dart (USGS).
Project coordination by Michael N. Machette (Co-chairman, ILP Task Group II-2).

2000

Scale 1:1,750,000
Lambert Conformal Conic Projection
(1st standard parallel, 17°20'N; 2nd standard parallel, 22°40'N; longitude of central meridian, 66°W;
latitude of projections origin, 0°; Clarke 1866 spheroid)

Mapa de Fallas Cuaternarias de Bolivia

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),
Institut de Recherche pour le Développement (IRD) y Universidad de Chile (UC).

Datos compilados por Alain Lavenu (IRD) y Ricardo Thiele (UC).
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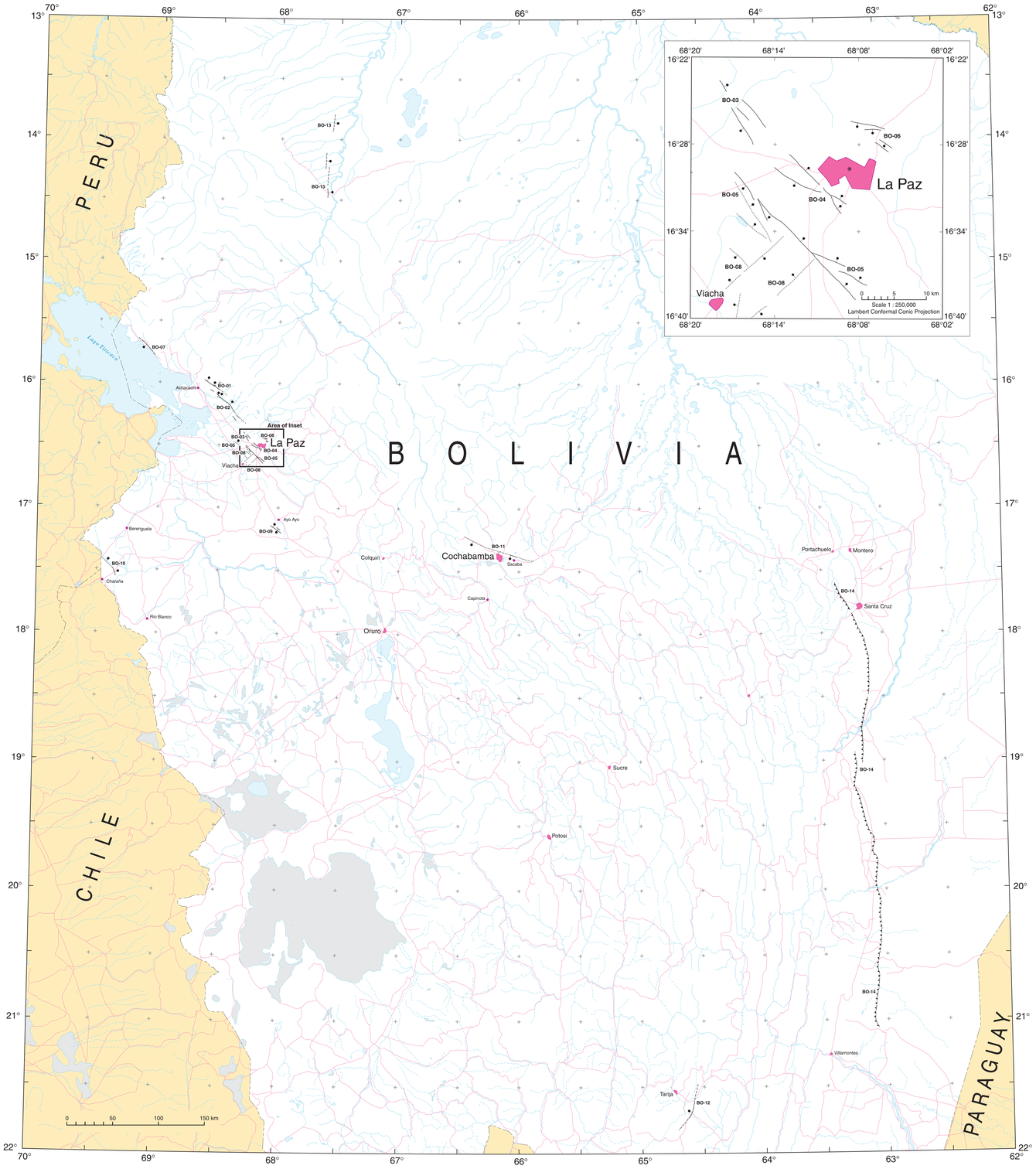
2000

Escala 1:1.750.000
Proyección de Lambert Conformal Conic
(1st paralelo estándar, 17°20'N; 2nd paralelo estándar, 22°40'N; longitud de meridiano central, 66°W;
latitud de escala verdadera 0°; con base en el esferoide Clarke 1866)



Index map for Bolivia
Esquema de indice para Bolivia

QUATERNARY FAULTS OF BOLIVIA
FALLAS CUATERNARIAS DE BOLIVIA

Number Numeró	Name of structure Nombre de structuro	Sense of movement (major/minor) Sentido de movimiento (mayor/menor)	Time of most recent movement Edad del último movimiento	Slip rate (mm/yr) Tasa de movimiento (mm/año)
BO-01	**Fault east of Achacachi/Falla al este de Achacachi**	Normal	<1.6 Ma	Unknown/desconocida
BO-02	**Fault east of Peñas/Falla este de Peñas**	Normal	<15 ka	Unknown, probably <0.125; desconocida, probablemente <0.125
BO-03	**Kenko fault zone/Zona de falla Kenko**	Normal-sinistral	<1.6 Ma	<0.2
BO-04	**Llojeta fault/Falla de Llojeta**	Normal-dextral	<1.6 Ma	<0.2
BO-05	**Amachuma fault/Falla de Amachuma**	Normal-sinistral	<1.6 Ma	Unknown/desconocida
BO-06	**Quebrada Minasa fault/Falla Quebrada Minasa**	Normal-dextral	<1.6 Ma	Unknown, probably <0.2; desconocida, probablemente <0.2
BO-07	**Escoma fault/Falla Escoma**	Normal	<1.6 Ma	Unknown/desconocida
BO-08	**Viacha fault zone/Zona de falla de Viacha**	Normal	<1.6 Ma	Unknown/desconocida
BO-09	**Ayo Ayo fault/Falla de Ayo Ayo**	Normal-dextral	<1.6 Ma	Unknown/desconocida
BO-10	**Cuenca de Charaña fault/Falla Cuenca de Charaña**	Normal	<1.6 Ma	Unknown/desconocida
BO-11	**Tunari fault/Falla Tunari**	Normal-dextral	<1.6 Ma	Unknown/desconocida
BO-12	**Tarija fault/Falla de Tarija**	Normal	<1.6 Ma	Unknown/desconocida
BO-13	**Beni River fault/Falla del Río Beni**	Normal	<1.6 Ma	Unknown/desconocida
BO-14	**Mandeyapecua fault/Falla Mandeyapecua**	Reverse	<1.6 Ma	Unknown/desconocida

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 at map scale
- Poor or 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 (bar and ball on downthrown block)

FOLDS
- Anticline
- Syncline

SIMBOLOGIA DEL MAPA

EDAD DE ULTIMA RUPTURA SUPERFICIAL
- Histórica (año)
- Holocena (<10,000 años) o post glacial (<15,000 años)
- Cuaternaria, sin diferenciar (<1,600,000 años)

TASA 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 corrimiento (triángulos en bloque superior)
- Falla de rumbo dextral
- Falla de rumbo sinestral
- Falla normal (círculo en bloque hundido)

PLIEGUES
- Anticlinal
- Sinclinal

Digital data prepared with ARC/INFO version 7.2.1 running under Solaris version 2.6 on a Unix workstation.
Last revision May 25, 2000.

Map prepared by L.-A. Bradley using Adobe Illustrator version 9.0.
Last revision September, 2000.

This map was produced on request, directly from digital files, on an electronic plotter. It is also available as a PDF file at http://greenwood.cr.usgs.gov

This report is preliminary and has not been reviewed for conformity with U.S. Geological Survey editorial standards. Any use of trade, product, or firm names is for discriptive purposes and does not imply endorsement by the U.S. Government.

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