

LEGEND

- Municipality Boundary
- Major Road Network
- Tunnel
- Ground Water Boundary

Ground Water Level, m

- 840
- 860
- 880
- 900
- 920
- 940
- 960
- 980

Source: MARN
Elaboration Date: 2004

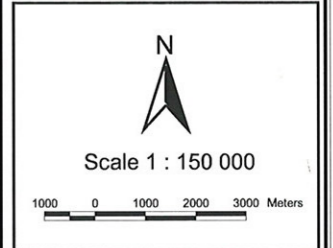
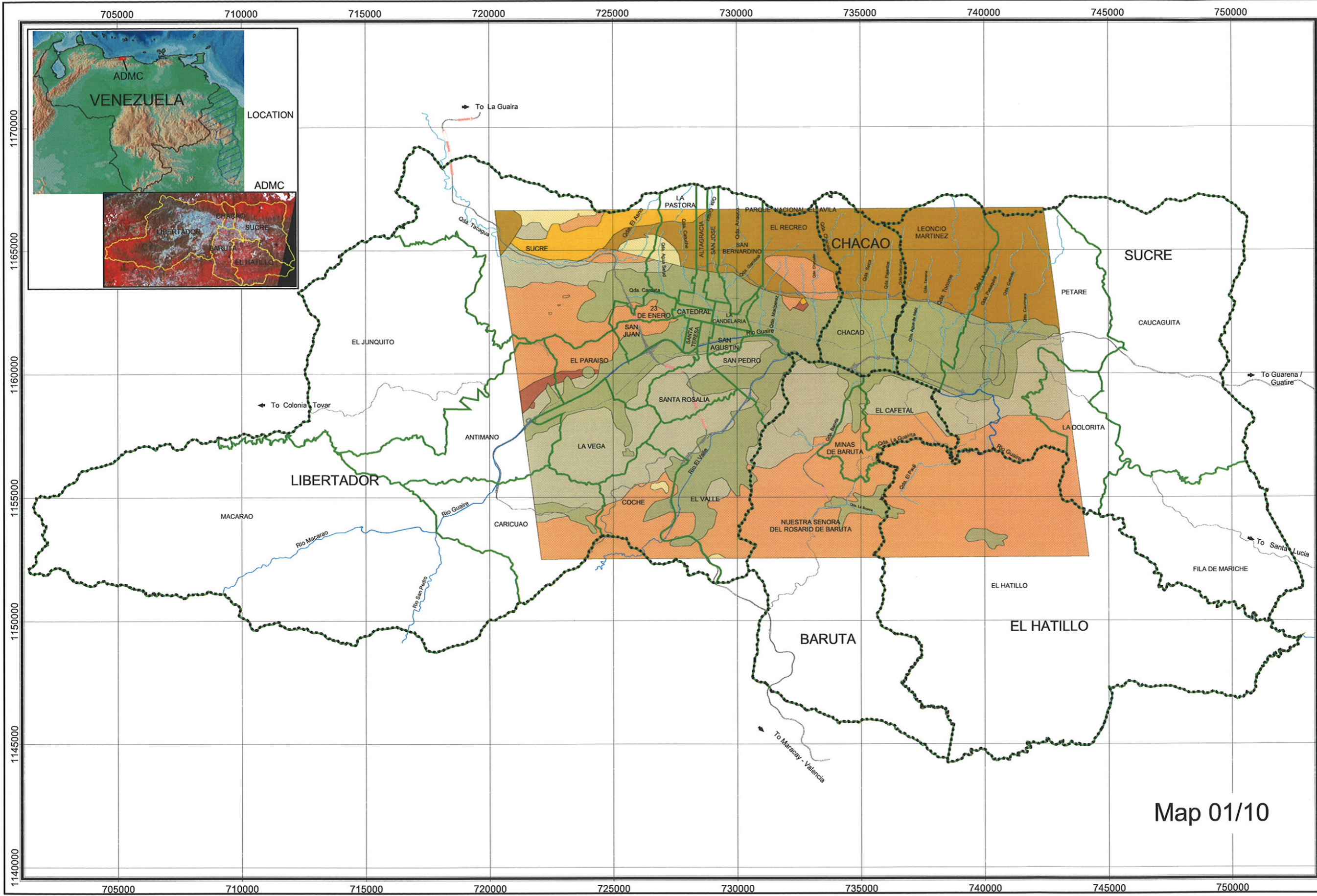
MAP PROJECTION PARAMETERS

Projection System - Universal Transverse Mercator (UTM)
 UTM Zone 19
 Datum - Provisional South American 1956
 Hemisphere - North

GROUND WATER

STUDY ON
 DISASTER PREVENTION
 BASIC PLAN
 IN THE METROPOLITAN
 DISTRICT OF CARACAS IN
 THE BOLIVARIAN
 REPUBLIC OF VENEZUELA

Map 01/09



LEGEND

- Municipality Boundary
- ▭ Parroquia Boundary
- Road Network
- Tunnel
- River
- Stream

Geological Formation

- Antimano
- Basicas Metamorfizadas
- Centro Poblado
- Las Brisas
- Las Mercedes
- Peña de Mora
- Ultrametafasica

Source: FUNVISIS. 2000
Elaboration Date: 2004.

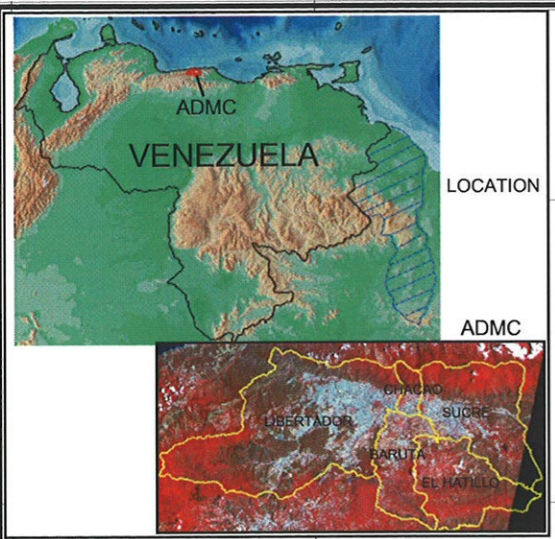
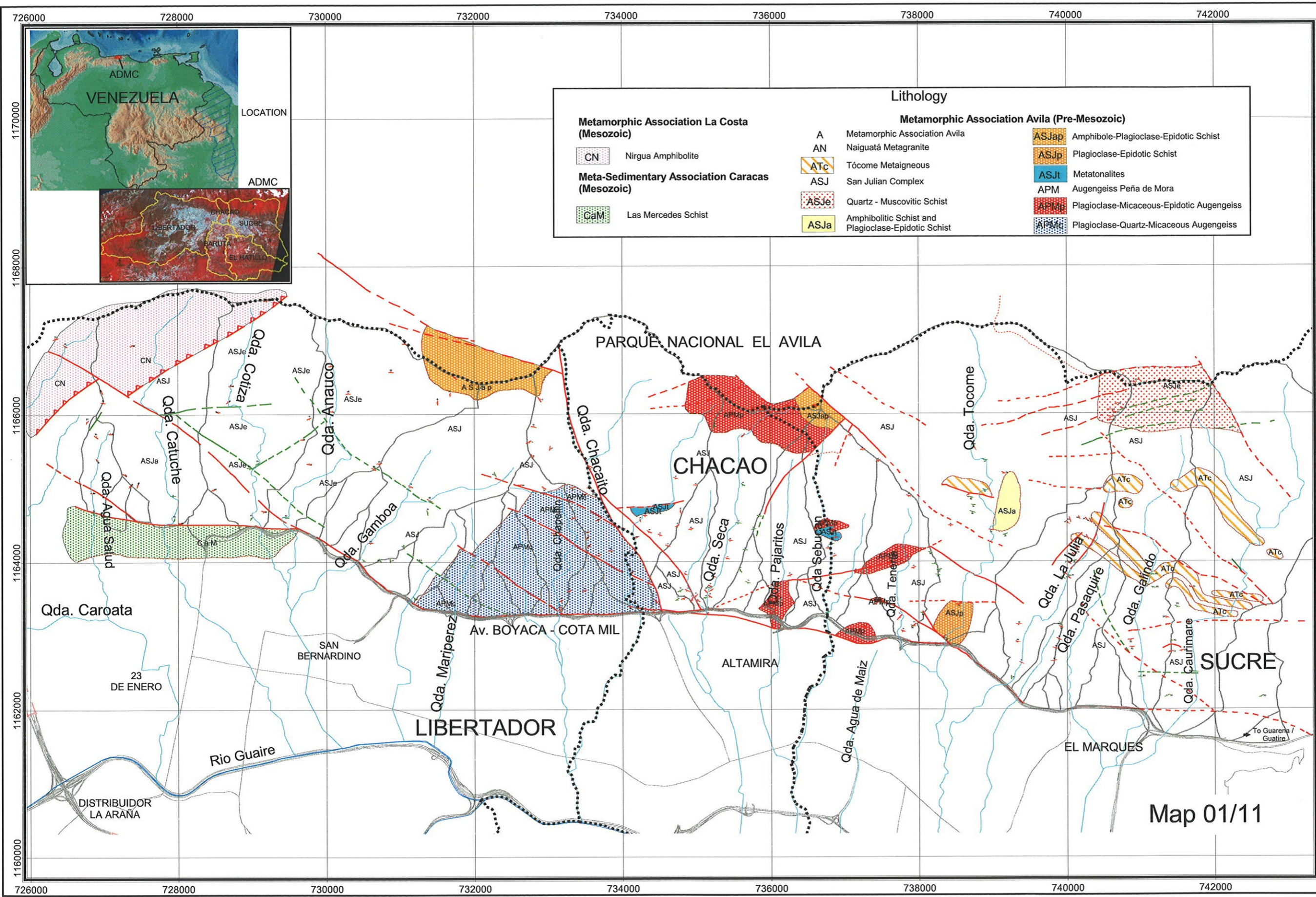
MAP PROJECTION PARAMETERS

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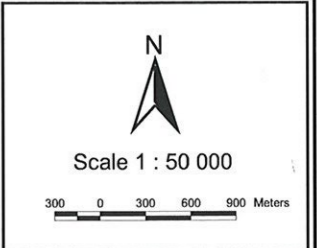
GEOLOGICAL MAP

STUDY ON
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Map 01/10



Metamorphic Association La Costa (Mesozoic)		Metamorphic Association Avila (Pre-Mesozoic)	
CN	Nirgua Amphibolite	A	Metamorphic Association Avila
CaM	Las Mercedes Schist	AN	Naiguatá Metagranite
		ATc	Tócome Metaigneous
		ASJ	San Julian Complex
		ASJe	Quartz - Muscovitic Schist
		ASJa	Amphibolitic Schist and Plagioclase-Epidotic Schist
		ASJap	Amphibole-Plagioclase-Epidotic Schist
		ASJp	Plagioclase-Epidotic Schist
		ASJt	Metatonalites
		APM	Augengeiss Peña de Mora
		APMj	Plagioclase-Micaceous-Epidotic Augengeiss
		APMk	Plagioclase-Quartz-Micaceous Augengeiss



LEGEND	
-----	Municipality Boundary
—	Road Network
—▲—	Tunnel
—	River
—	Stream
—	Sub Watershed Boundary
From FUNVISIS - IGVS	
▲▲▲	Thrust Fault
—	Fault
- - -	Inferred Fault
▲	Foliation
.....	Lithological Contact
From JICA Study	
▲▲▲	Thrust Fault
—	Fault
- - -	Inferred Fault
▲	Foliation
.....	Lithological Contact

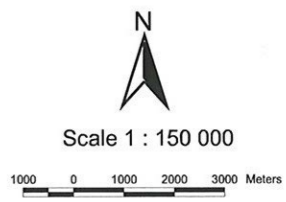
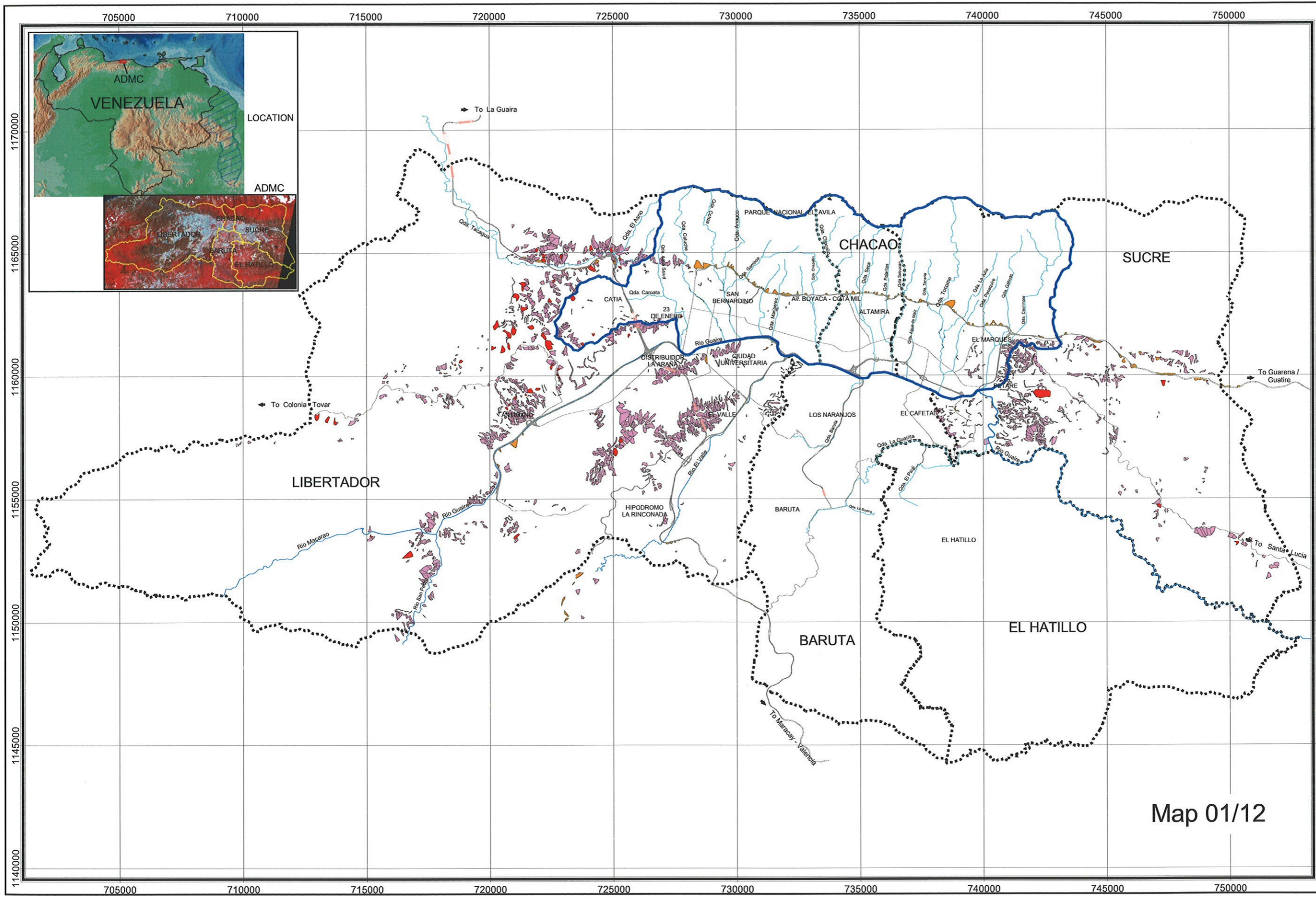
Source: JICA Study Team / FUNVISIS.
Elaboration Date: 2003

MAP PROJECTION PARAMETERS
Projection System - Universal Transverse Mercator (UTM)
UTM Zone 19
Datum - Provisional South American 1956
Hemisphere - North

GEOLOGY IN THE AVILA MOUNTAIN

STUDY ON
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BASIC PLAN IN THE
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Map 01/11



LEGEND

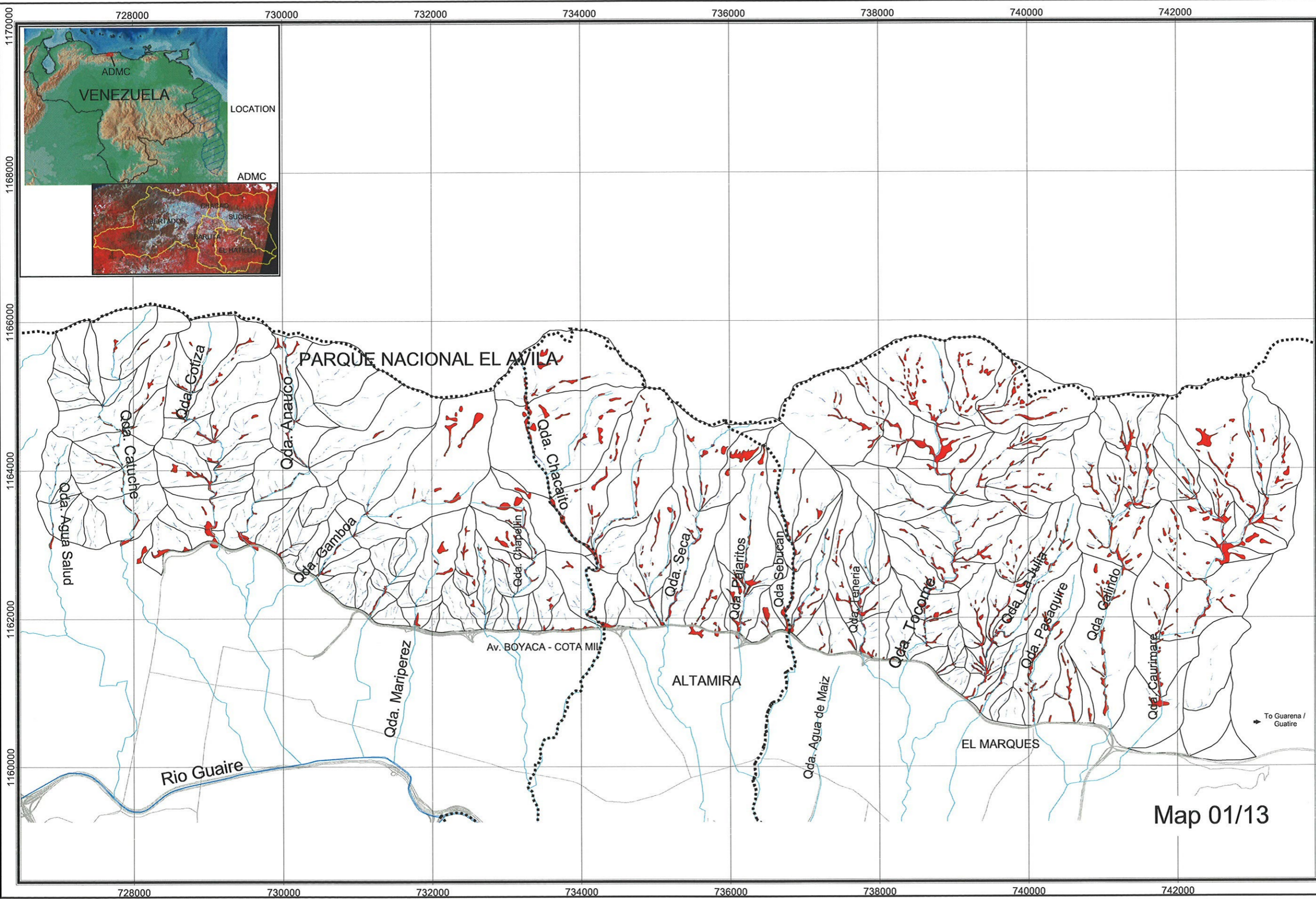
- Municipality Boundary
 - Road Network
 - Tunnel
 - River
 - Stream
 - Sediment Disaster Study Area
- Slope Classifications**
- Steep slope above house
 - Steep slope above road
 - Steep slope above stream
 - Landslide

Remark: Slope and landslide in Municipality of Baruta and El Hatillo were not studied.
 Source: JICA Study Team.
 Elaboration Date: 2003

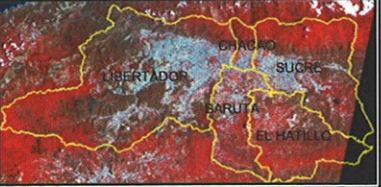
MAP PROJECTION PARAMETERS
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SLOPE CLASSIFICATIONS
 STUDY ON
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Map 01/12



LOCATION
ADMC



Scale 1 : 50 000



LEGEND

- Municipality Boundary
 - Road Network
 - Tunnel
 - River
 - Stream
- Order of Stream**
- 1st Order
 - 2nd Order
 - 3rd Order
 - 4th Order
 - 5th Order
- Unit Catchment (2nd Order)
 - Unstable Sediment on Stream Bed

Source: JICA Study Team.
Date Elaboration: 2003

MAP PROJECTION PARAMETERS
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UNSTABLE SEDIMENT ON STREAM BED
 STUDY ON
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Map 01/13

To Guarena /
Guatire