

**Legend**

Rivers	Cultivated areas of the coastal region
<b>Forestal</b>	Coastal/desert
Bh-mo Mountain Rain Forest	Wetscrub
Bs-co Dry Forest Hills	Dryscrub
Bs-mo Mountain Dry Forest	Humid Scrubland / Sub wet scrub
Bs-Sa Savanna-Dry Forest	Grassland

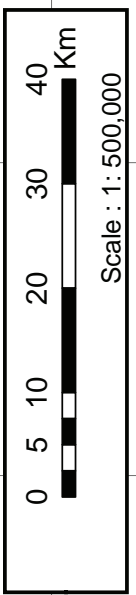
PROJECT OF THE PROTECTION OF FLOOD PLAIN AND  
 VULNERABLE RURAL POPULATION AGAINST FLOODS

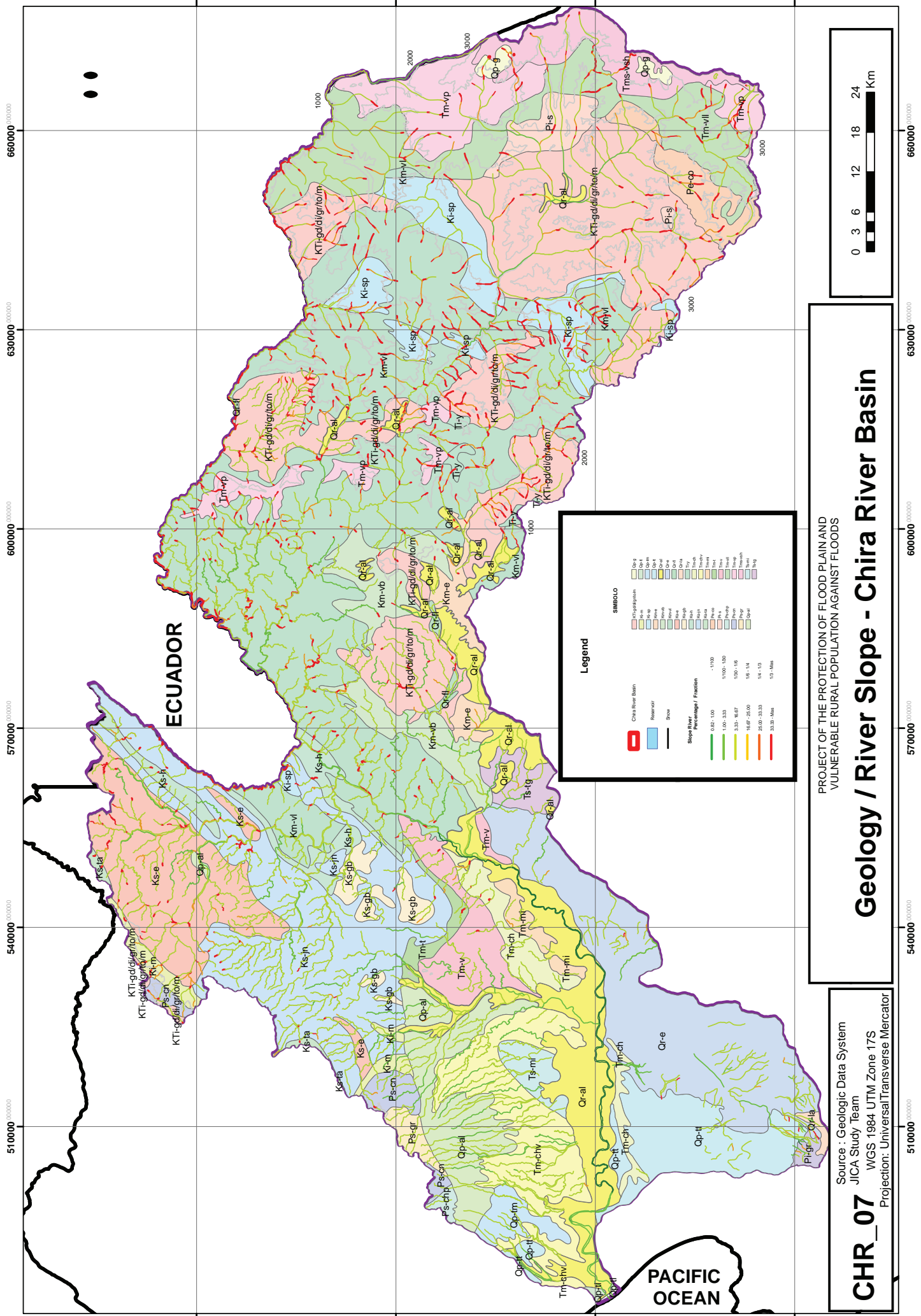
# Forestry Map 1995

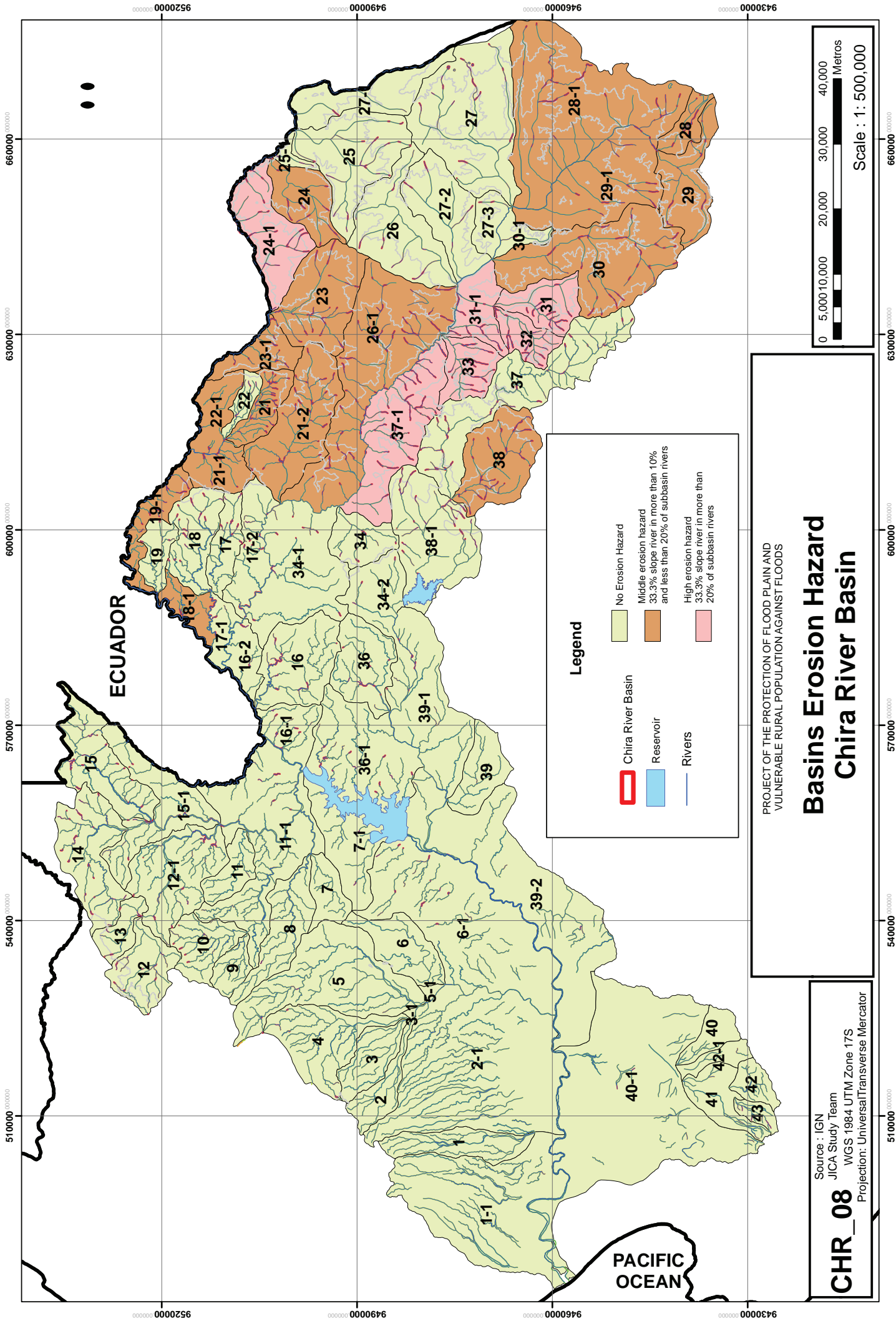
## Chira River Basin

**CHR\_06**

Source : Dirección General Forestal - 1995  
 WGS 1984 UTM Zone 17S  
 Projection: UniversalTransverse Mercator







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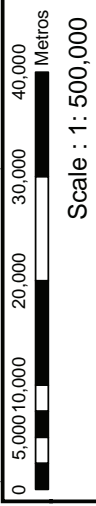
**Legend**

- Chira River Basin
- Reservoir
- Rivers
- No Erosion Hazard
- Middle erosion hazard  
33.3% slope river in more than 10%  
and less than 20% of subbasin rivers
- High erosion hazard  
33.3% slope river in more than  
20% of subbasin rivers

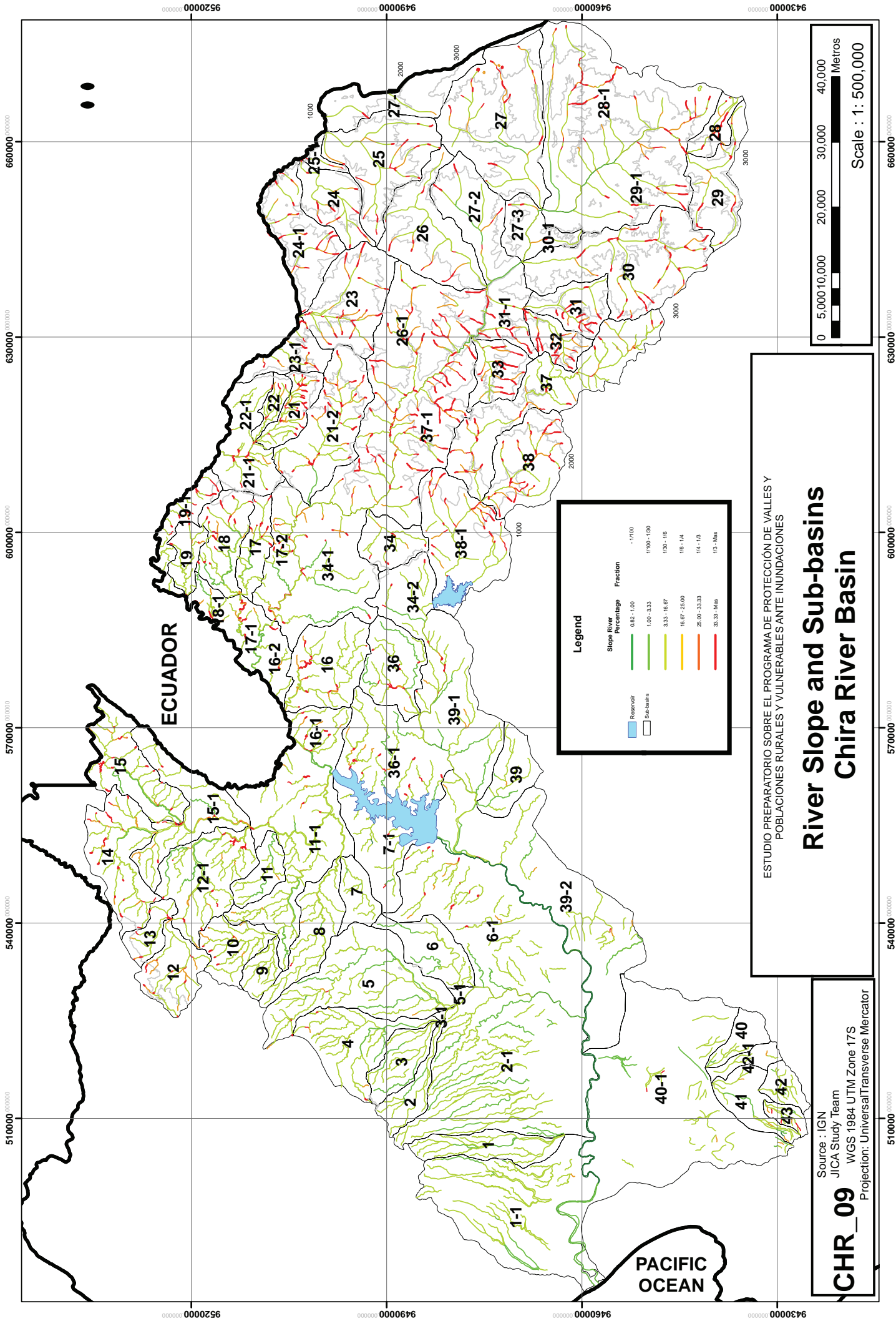
PROJECT OF THE PROTECTION OF FLOOD PLAIN AND  
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**Basins Erosion Hazard  
Chira River Basin**

**CHR\_08**  
Source : IGN  
JICA Study Team  
WGS 1984 UTM Zone 17S  
Projection: Universal Transverse Mercator







**Legend**

Slope River Percentage	Fraction
Light Green	0.82 - 1.00
Green	1.00 - 3.33
Yellow-Green	3.33 - 16.67
Yellow	16.67 - 25.00
Orange	25.00 - 33.33
Red	33.33 - Max

Blue	Reservoir
Black outline	Sub-basins

ESTUDIO PREPARATORIO SOBRE EL PROGRAMA DE PROTECCIÓN DE VALLES Y POBLACIONES RURALES Y VULNERABLES ANTE INUNDACIONES

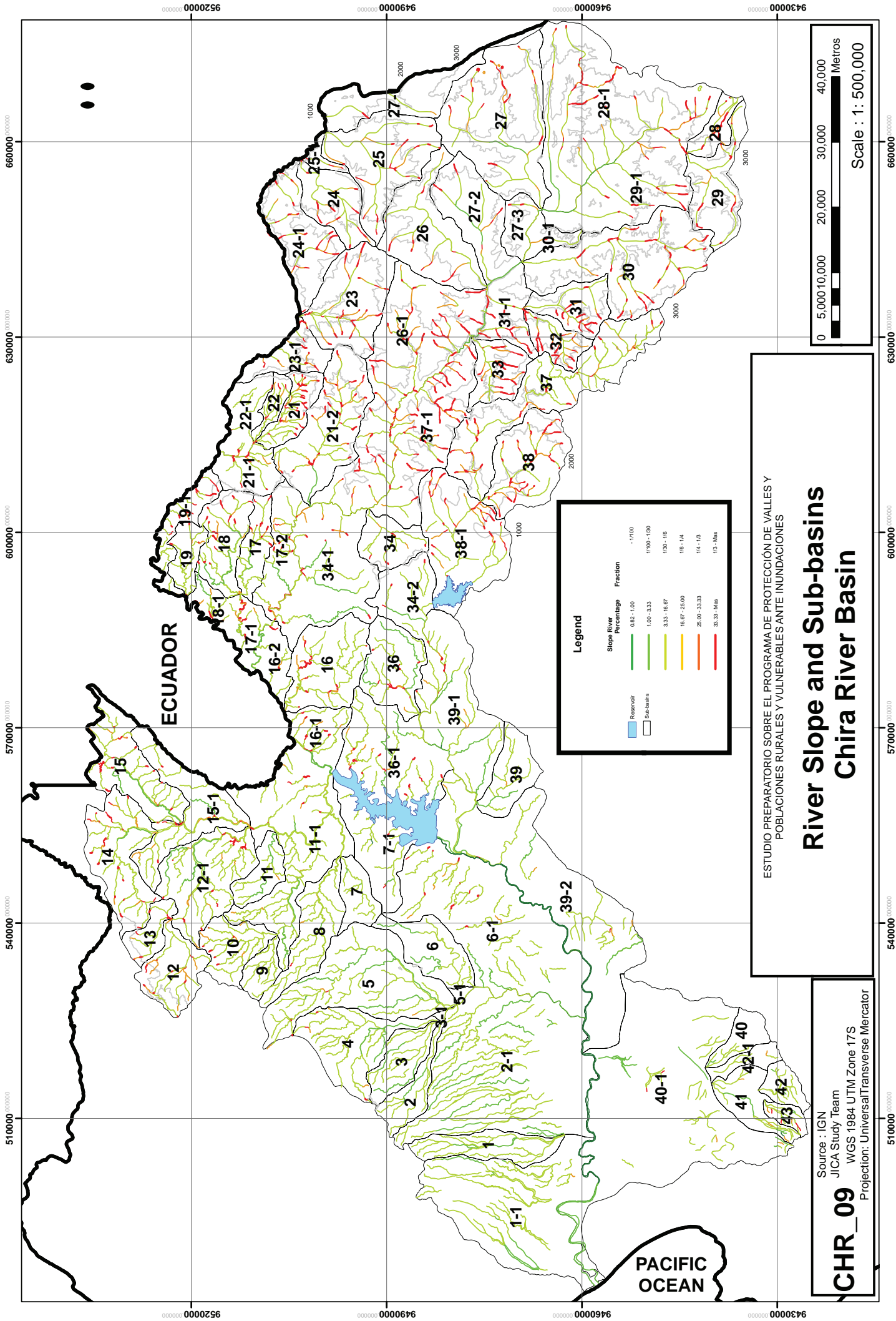
## River Slope and Sub-basins Chira River Basin

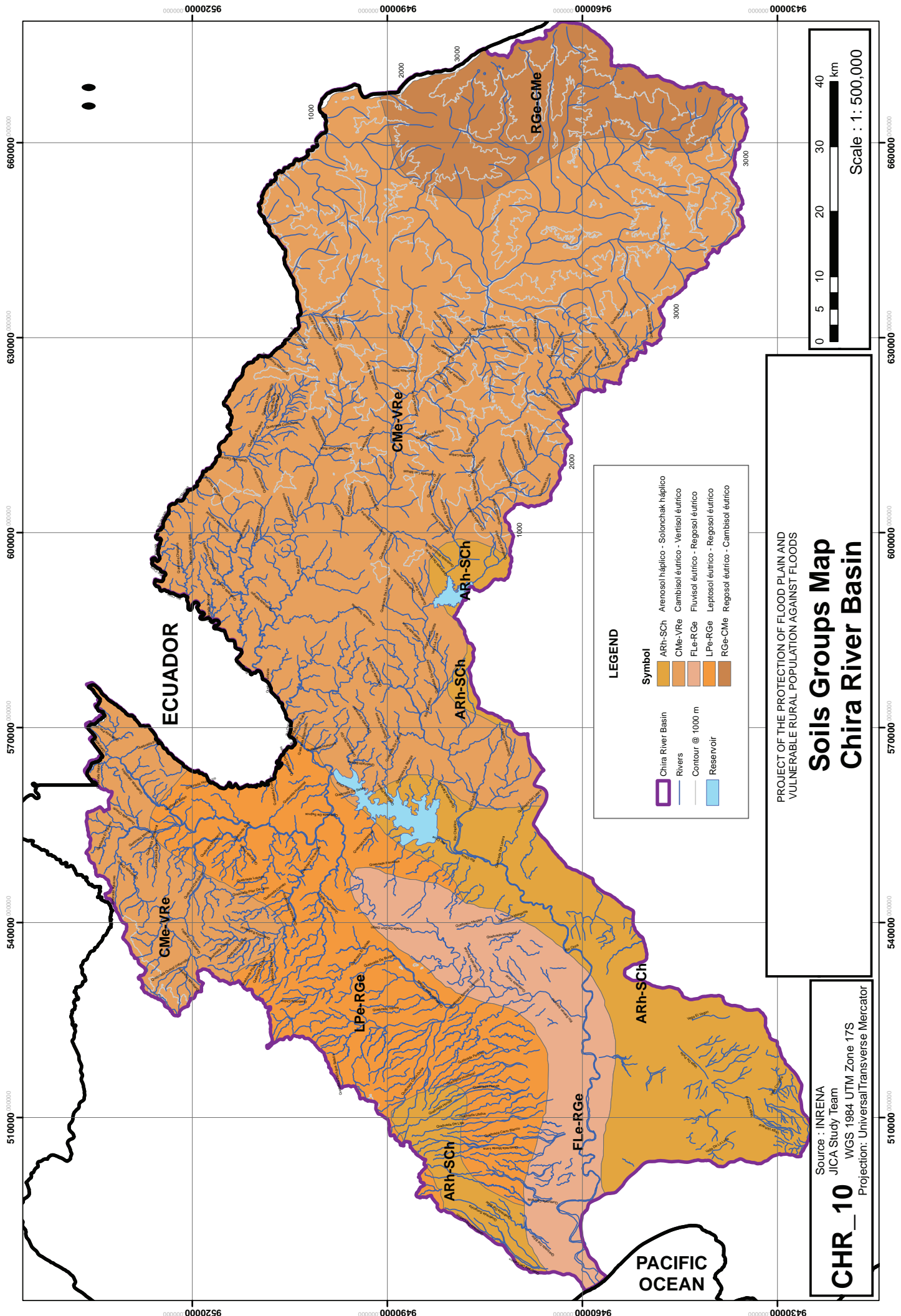
**CHR\_09**

Source : IGN  
 JICA Study Team  
 WGS 1984 UTM Zone 17S  
 Projection: Universal Transverse Mercator

PACIFIC OCEAN

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**LEGEND**

Symbol	Soil Group
	Chira River Basin
	Rivers
	Contour @ 1000 m
	Reservoir
	ARh-SCh Arenosol háplico - Solonchak háplico
	CMe-VRe Cambisol éútrico - Vertisol éútrico
	FLe-RGe Fluvisol éútrico - Regosol éútrico
	LPe-RGe Leptosol éútrico - Regosol éútrico
	RGe-CMe Regosol éútrico - Cambisol éútrico

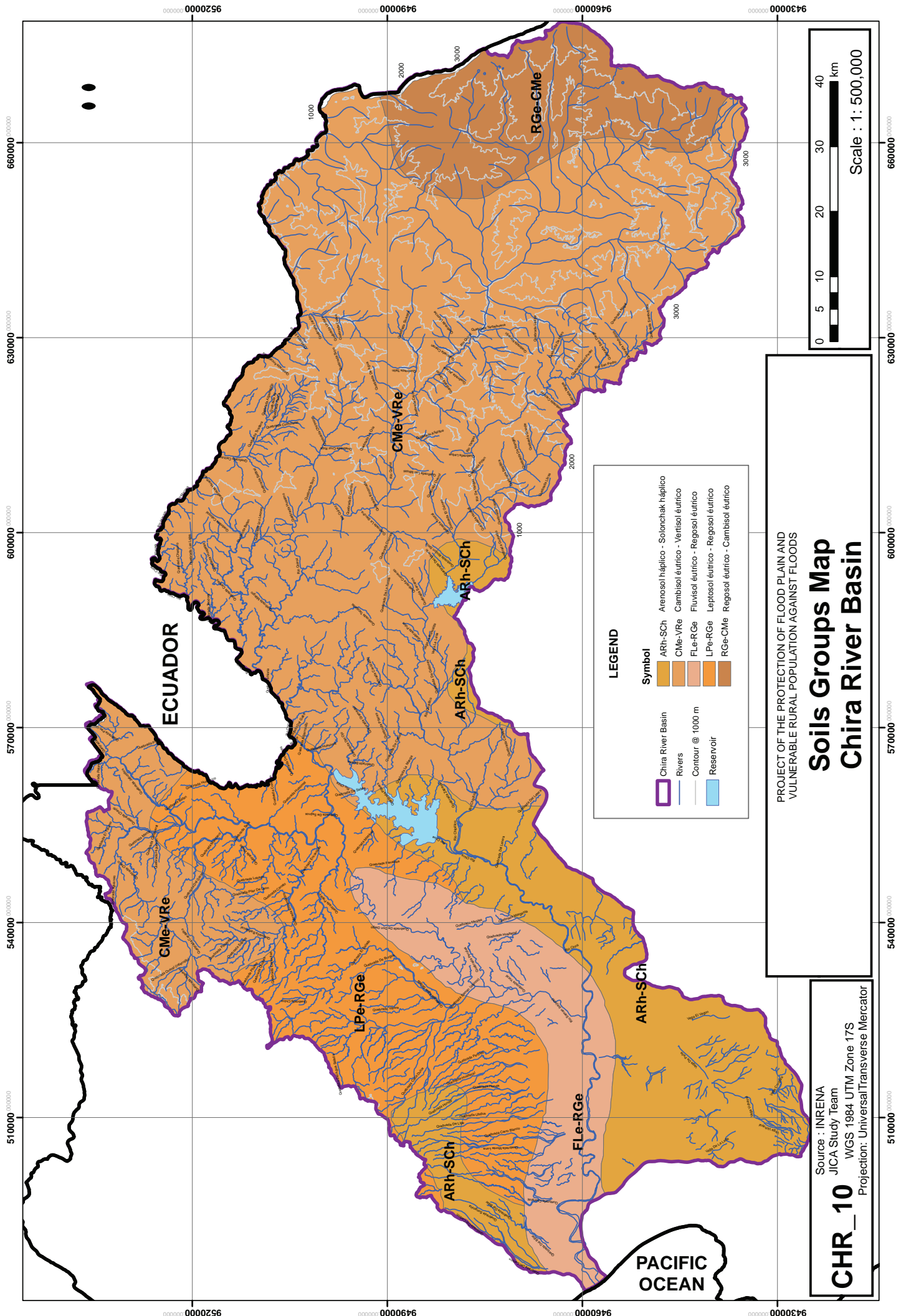
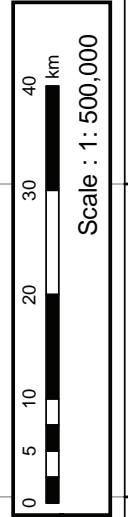
PROJECT OF THE PROTECTION OF FLOOD PLAIN AND VULNERABLE RURAL POPULATION AGAINST FLOODS

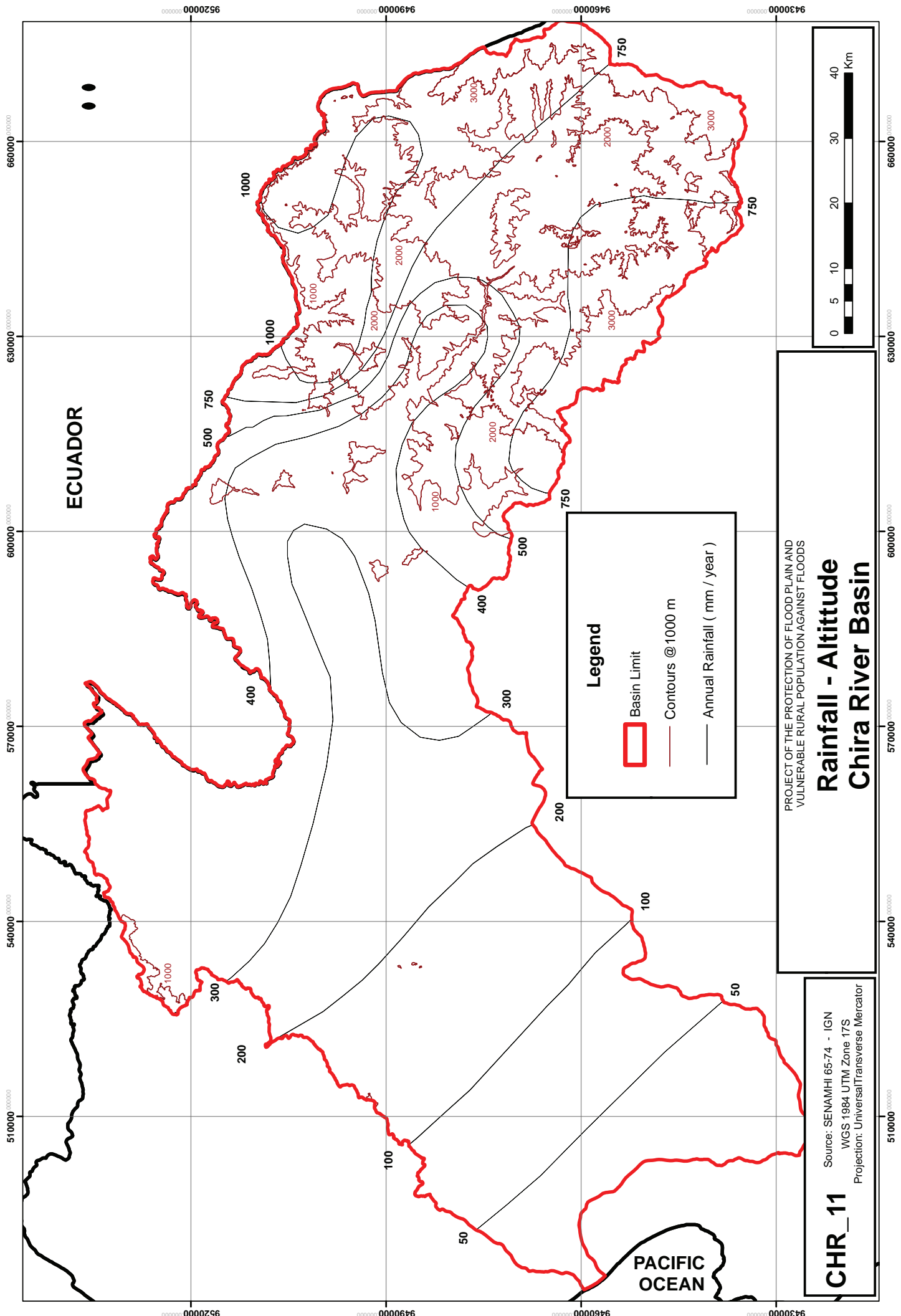
# Soils Groups Map

## Chira River Basin

**CHR\_10**

Source : INRENA  
 JICA Study Team  
 WGS 1984 UTM Zone 17S  
 Projection: Universal Transverse Mercator





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**Legend**

- Basin Limit
- Contours @ 1000 m
- Annual Rainfall ( mm / year )



PROJECT OF THE PROTECTION OF FLOOD PLAIN AND VULNERABLE RURAL POPULATION AGAINST FLOODS

## Rainfall - Altitude

### Chira River Basin

**CHR\_11**

Source: SENAMHI 65-74 - IGN  
 WGS 1984 UTM Zone 17S  
 Projection: Universal Transverse Mercator

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