

Legend

- Basin Limit
- Lakes
- Rivers

Slope Percentages (%)

- 0.00 - 2.00
- 2.00 - 15.00
- 15.00 - 35.00
- 35.00 - Mas

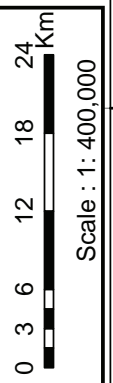
Porcentaje - Pendientes	Area (km2)
0-2	173.3
2 - 15	948.38
15 - 35	1418.79
Over 35	1731.62
TOTAL	4272.09

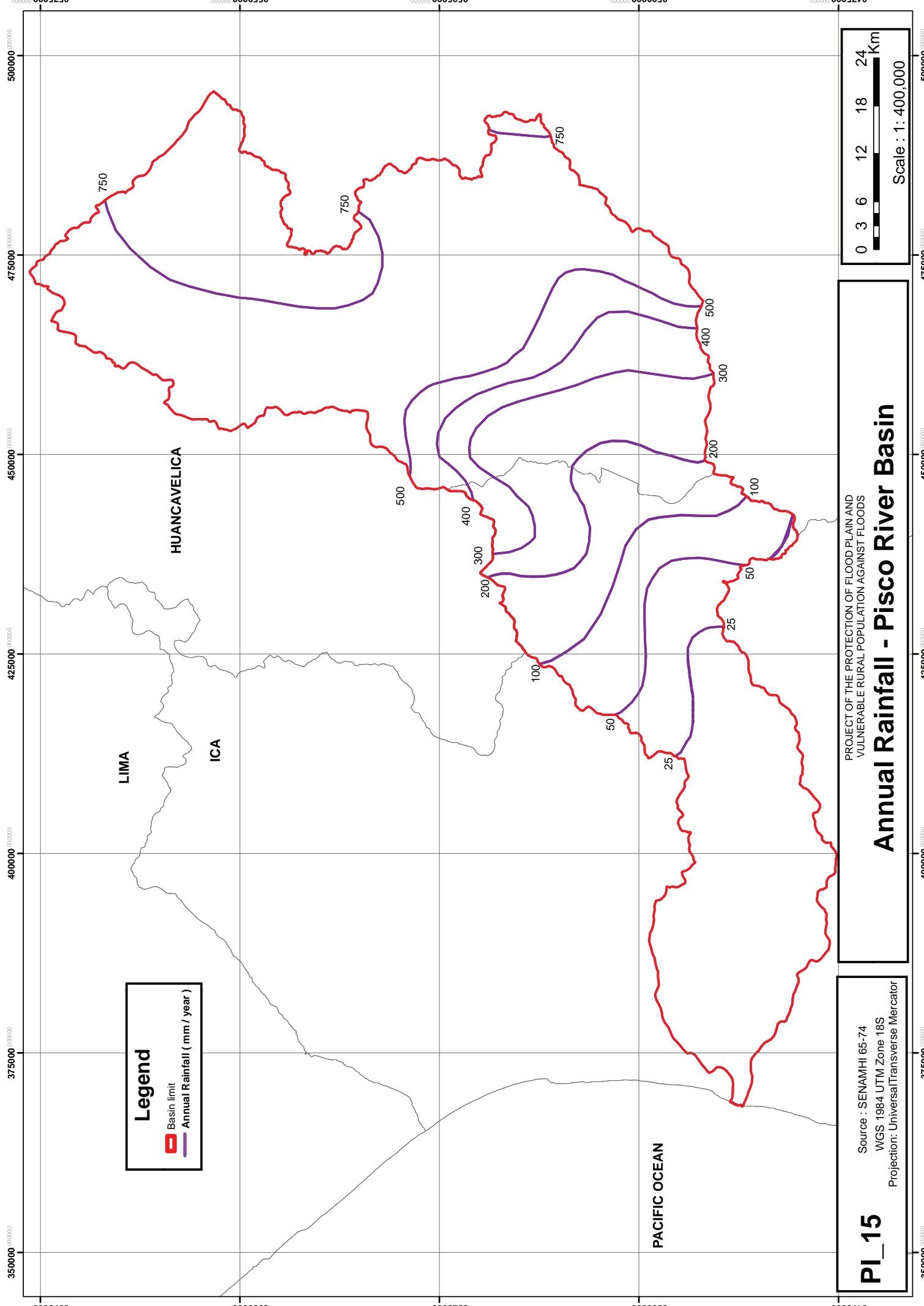
PI_14

Source: Direccion Forestal / DEM 30 x 30 Nasa
 JICA Study Team
 WGS 1984 UTM Zone 18S
 Projection: Universal Transverse Mercator

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

Slope Basin - Pisco River Basin





Legend

- ▬ Basin limit
- ▬ Annual Rainfall (mm / year)

0 3 6 12 18 24 Km

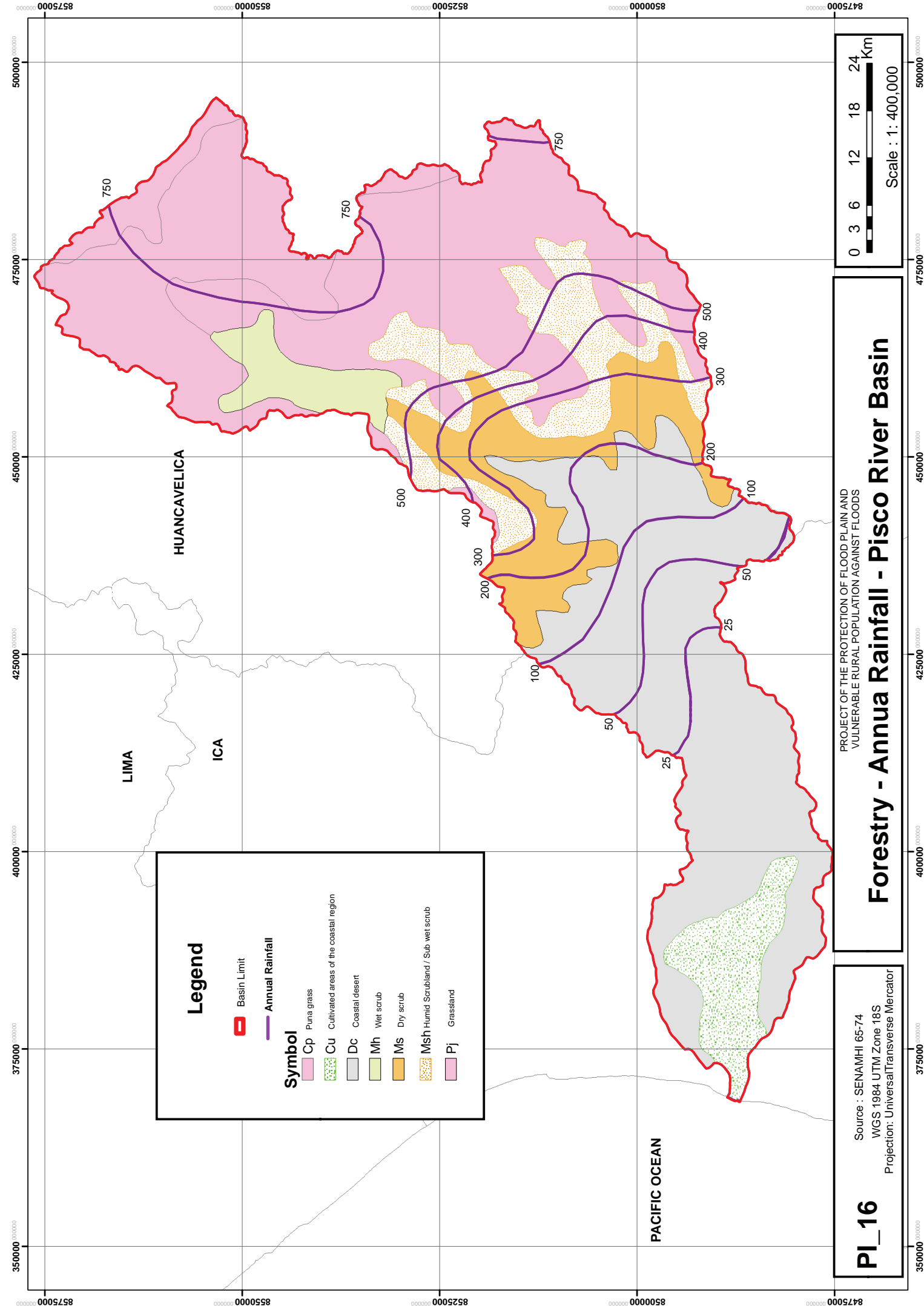
Scale : 1 : 400,000

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

Annual Rainfall - Pisco River Basin

PI_15

Source : SENAMHI 65-74
 WGS 1984 UTM Zone 18S
 Projection: Universal Transverse Mercator



Legend

▬ Basin Limit

▬ Annual Rainfall

Symbol

- Cp Puna grass
- Cu Cultivated areas of the coastal region
- DC Coastal desert
- Mh Wet scrub
- Ms Dry scrub
- MSh Humid Scrubland / Sub wet scrub
- Pj Grassland



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

Forestry - Annual Rainfall - Pisco River Basin

PI_16

Source : SENAMHI 65-74
WGS 1984 UTM Zone 18S
Projection: UniversalTransverse Mercator

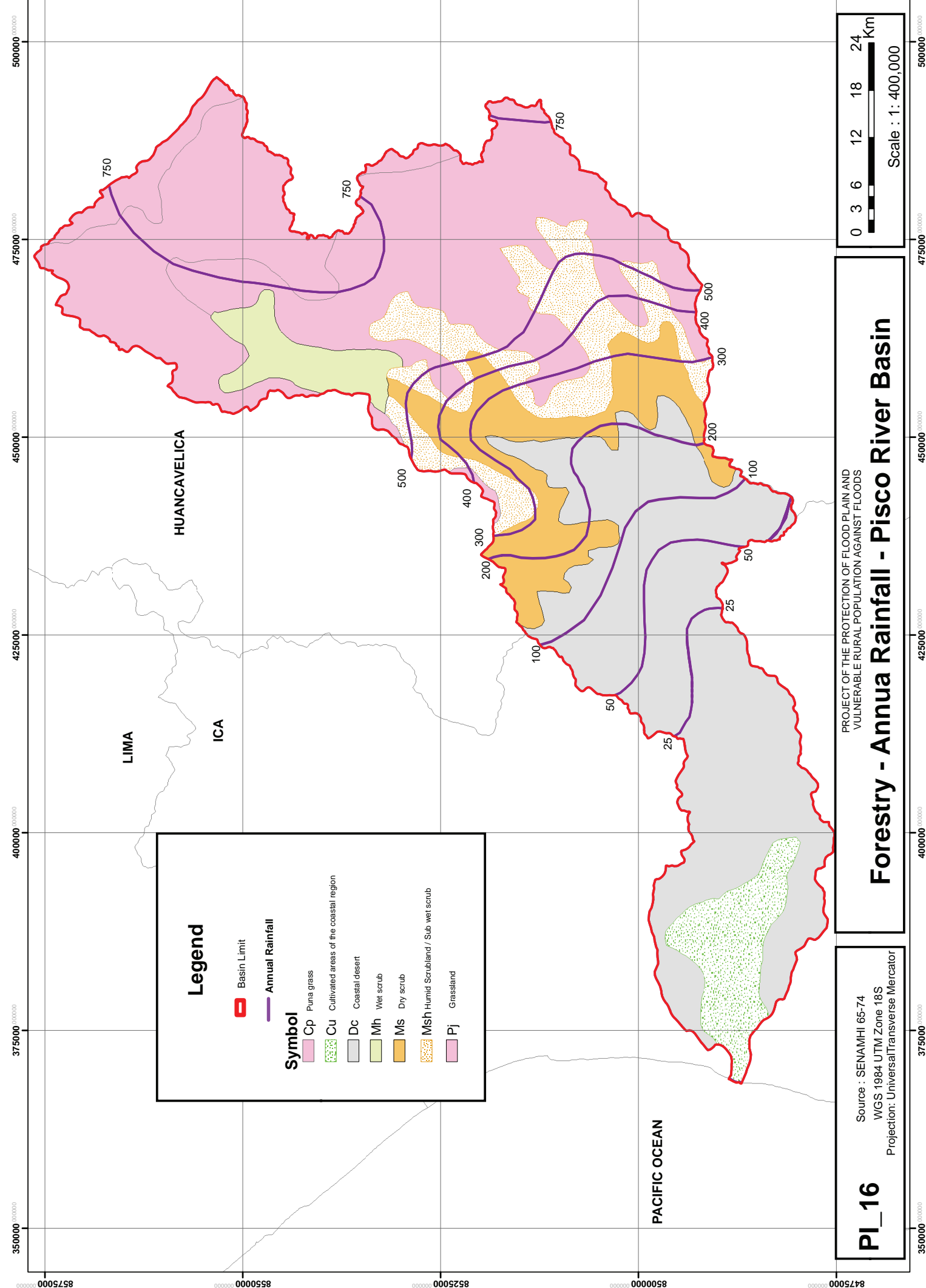
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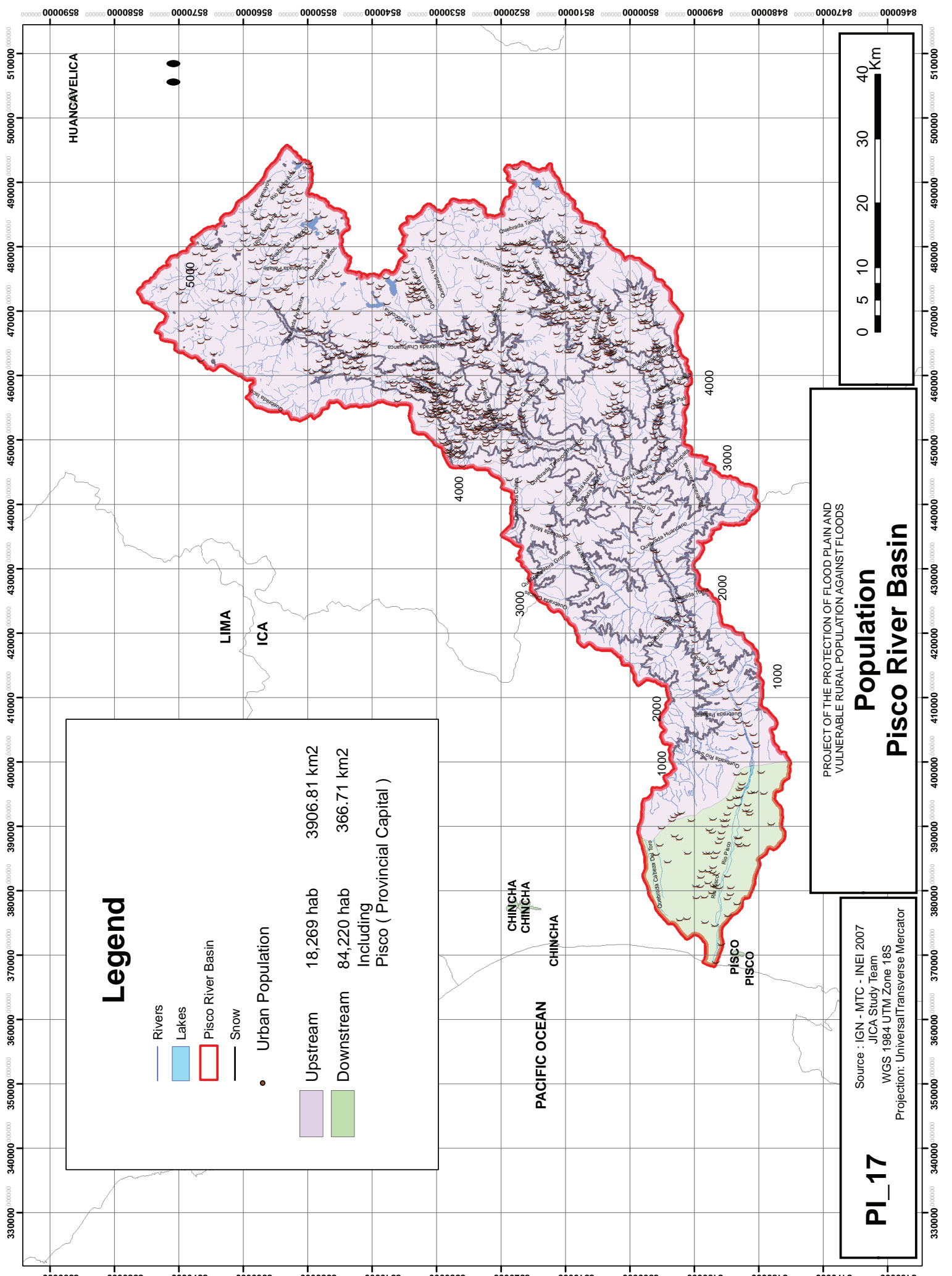
ICA

HUANCABELICA








PACIFIC OCEAN

8575000 8550000 8525000 8500000 8475000





Legend

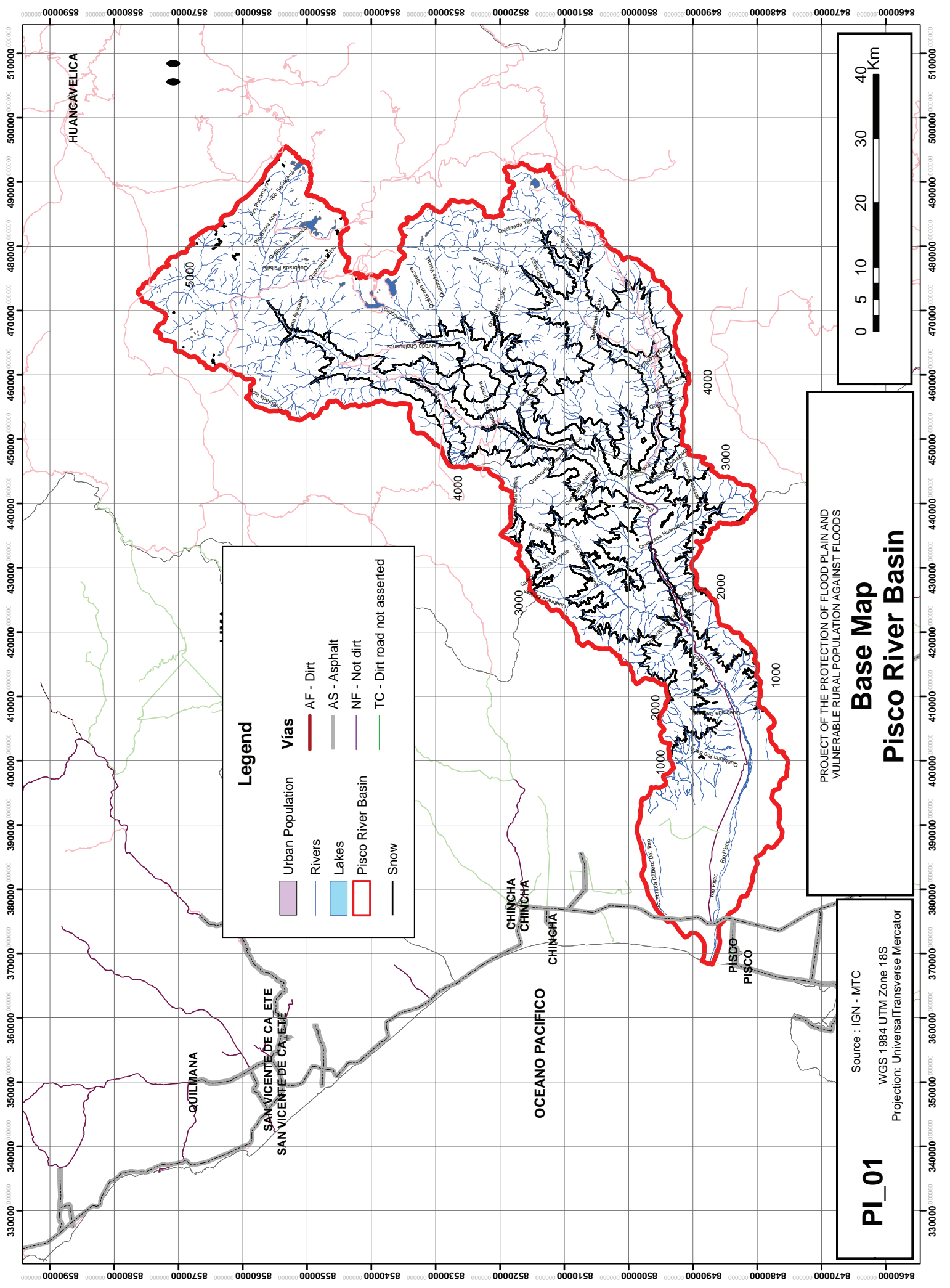
-  Rivers
 -  Lakes
 -  Pisco River Basin
 -  Snow
 -  Urban Population
- | | | | |
|---|------------|------------|-------------------------|
|  | Upstream | 18,269 hab | 3906.81 km ² |
|  | Downstream | 84,220 hab | 366.71 km ² |
- Including
Pisco (Provincial Capital)

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

Population Pisco River Basin

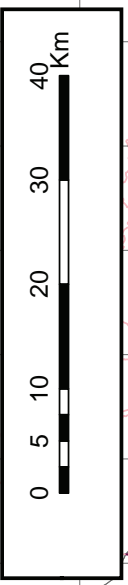
PI_17

Source : IGN - MTC - INEI 2007
JICA Study Team
WGS 1984 UTM Zone 18S
Projection: Universal Transverse Mercator



Legend

Urban Population	AF - Dirt
Rivers	AS - Asphalt
Lakes	NF - Not dirt
Pisco River Basin	TC - Dirt road not asserted
Snow	



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

Base Map

Pisco River Basin

PI_01

Source : IGN - MTC

WGS 1984 UTM Zone 18S

Projection: Universal Transverse Mercator

8460000 8470000 8480000 8490000 8500000 8510000 8520000 8530000 8540000 8550000 8560000 8570000 8580000 8590000

330000 340000 350000 360000 370000 380000 390000 400000 410000 420000 430000 440000 450000 460000 470000 480000 490000 500000 510000

HUANGAVELICA

QUILMANA

SAN VICENTE DE CAETE

SAN VICENTE DE CAETE

OCEANO PACIFICO

CHINGHA

CHINGHA

CHINGHA

PISCO

PISCO

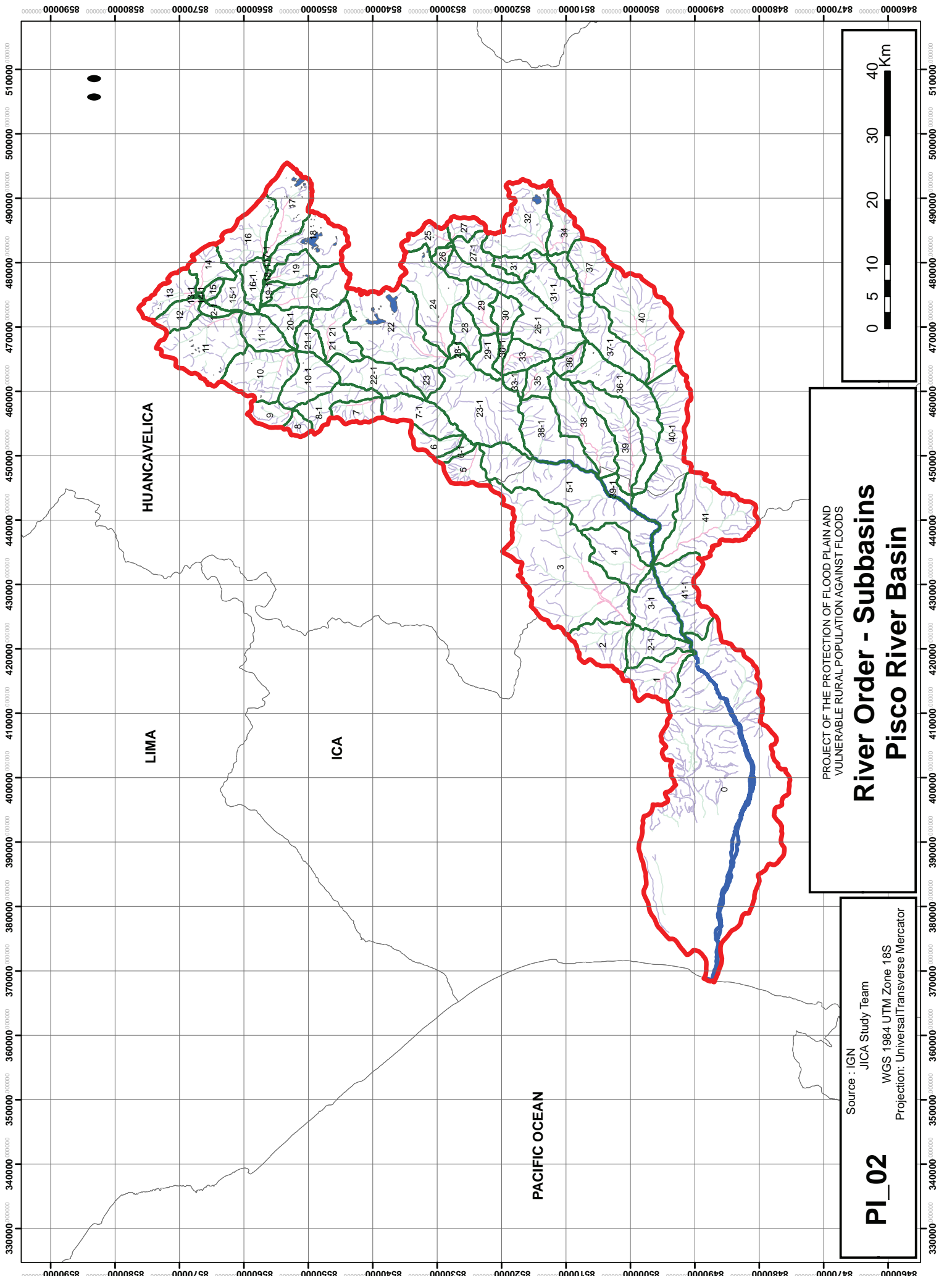
5000

4000

3000

2000

1000



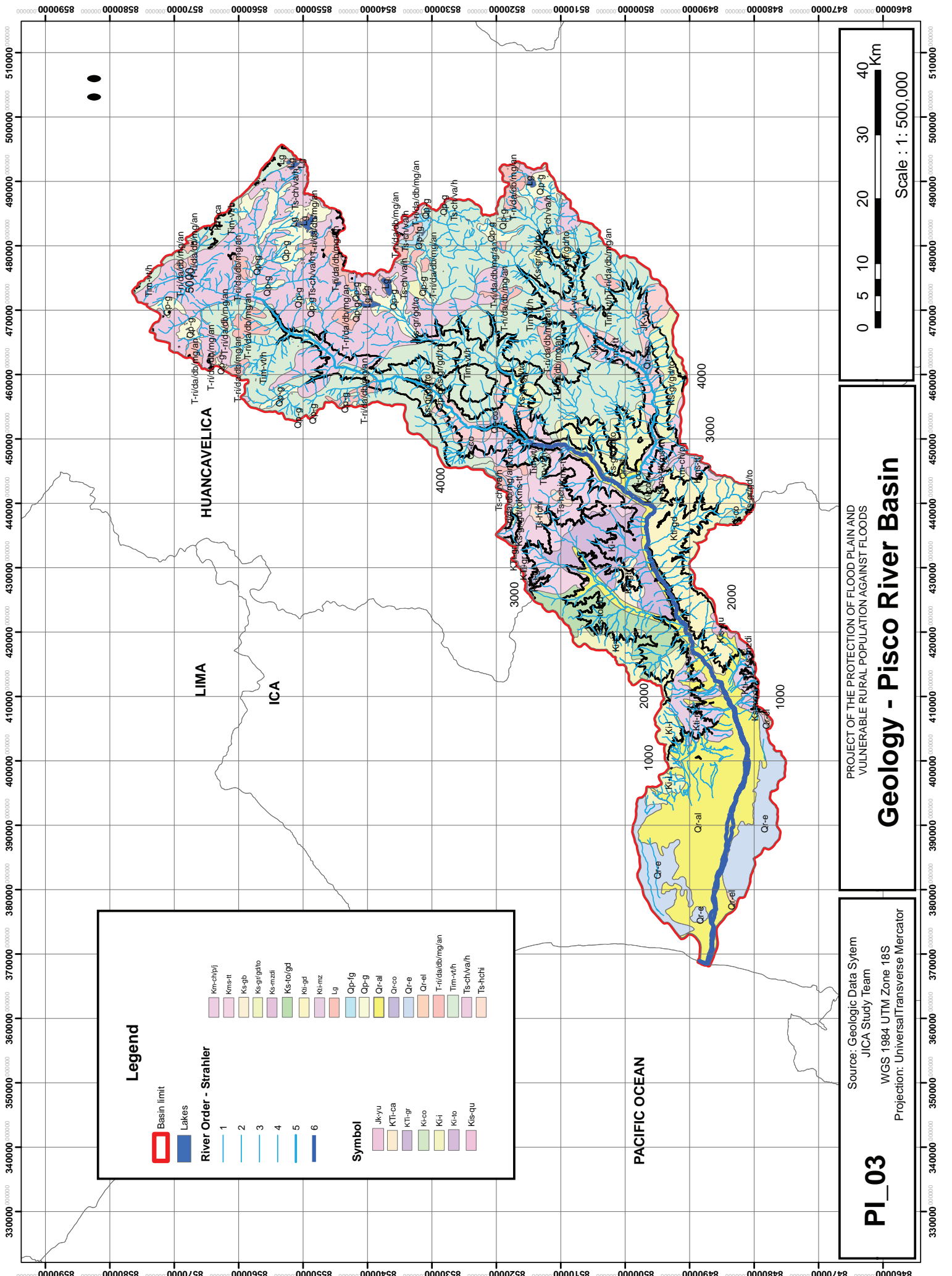
PROJECT OF THE PROTECTION OF FLOOD PLAIN AND
VULNERABLE RURAL POPULATION AGAINST FLOODS

River Order - Subbasins

Pisco River Basin

PI_02

Source : IGN
JICA Study Team
WGS 1984 UTM Zone 18S
Projection: Universal Transverse Mercator



Legend

Basin limit (Red outline)

Lakes (Blue area)

River Order - Strahler

- 1 (Light blue line)
- 2 (Medium blue line)
- 3 (Dark blue line)
- 4 (Very dark blue line)
- 5 (Darkest blue line)
- 6 (Thick dark blue line)

Symbol

jk-yu	kn-chipj
kt-ca	kn-stt
kt-gr	ks-gb
ki-co	ks-gr/gdlo
kh	ks-mzdi
ki-to	ks-to/gd
ki-qu	ki-gd
	ki-mz
	lg
	qp-fg
	qp-g
	qr-sl
	qr-co
	qr-e
	qr-el
	tr-rida/db/mg/an
	tim-vjh
	ts-ch/va/h
	ts-hcti

PI_03

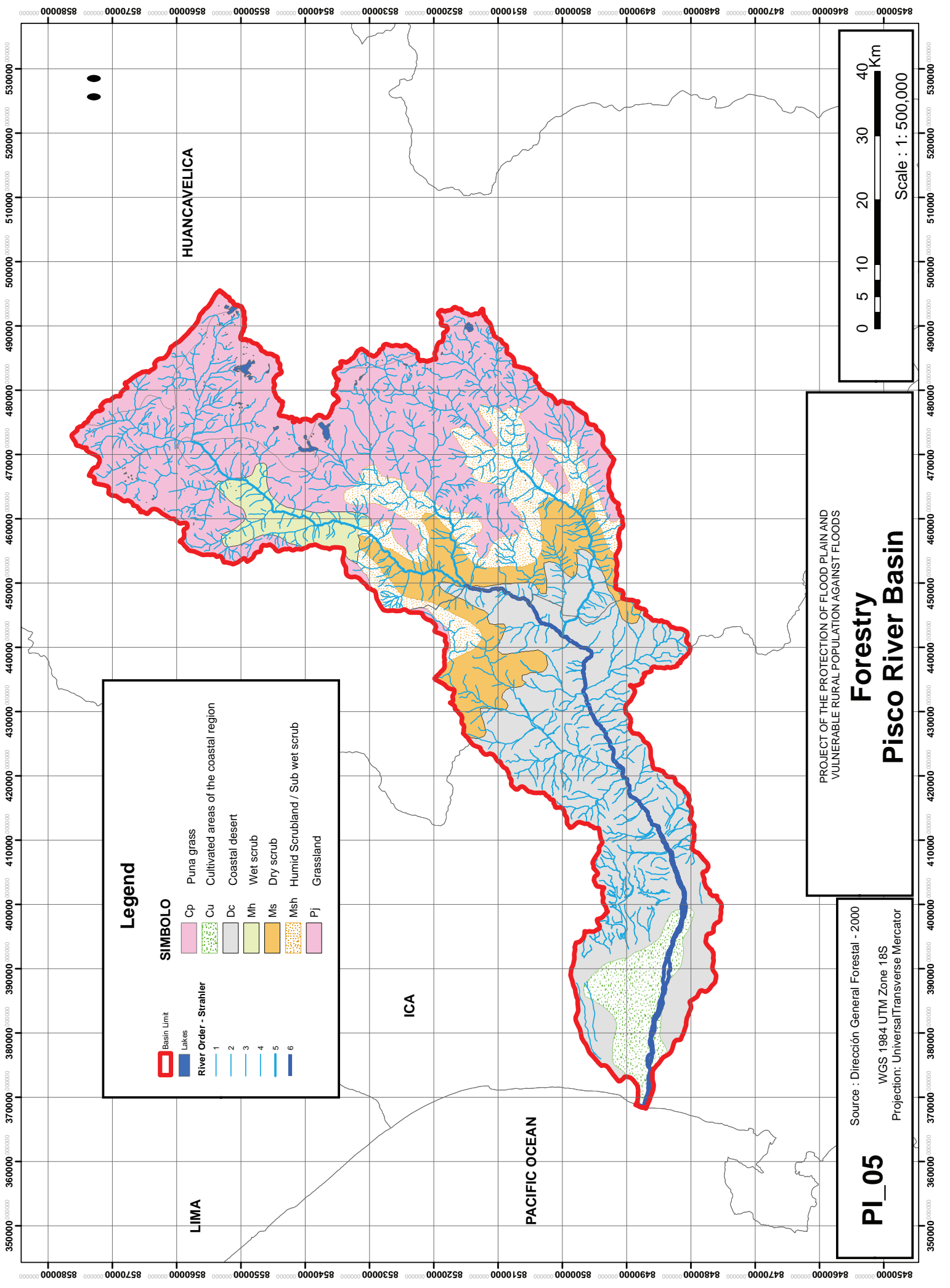
Source: Geologic Data System
 JICA Study Team
 WGS 1984 UTM Zone 18S
 Projection: Universal Transverse Mercator

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

Geology - Pisco River Basin

0 5 10 20 30 40 Km

Scale : 1 : 500,000



Legend

SIMBOLO	
	Basin Limit
	Lakes
	River Order - Strahler
	1
	2
	3
	4
	5
	6
	Puna grass
	Cultivated areas of the coastal region
	Coastal desert
	Wet scrub
	Dry scrub
	Humid Scrubland / Sub wet scrub
	Grassland

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

Forestry

Pisco River Basin

PI_05

Source : Dirección General Forestal - 2000
 WGS 1984 UTM Zone 18S
 Projection: UniversalTransverse Mercator

0 5 10 20 30 40 Km

Scale : 1 : 500,000