

Legend

SYMBOL	Legend
	Camana - Majes River Basin
	Rivers
	Fluvisol eútrico - Regosol eútrico
	Fle-RGe
	LPd-ANu-R
	LPd-ANz
	LPq-R
	LPe-KSh-R
	LPe-R
	Sch-LPe
	Solchachak háptico - Leptosol eútrico
	Leptosol districo - Andosol limbitico - Aloramiento lítico
	Leptosol districo - Andosol vitrico
	Leptosol eútrico - Kastanozem háptico - Aloramiento lítico
	Leptosol lítico - Aloramiento lítico
	Solchachak háptico - Leptosol eútrico

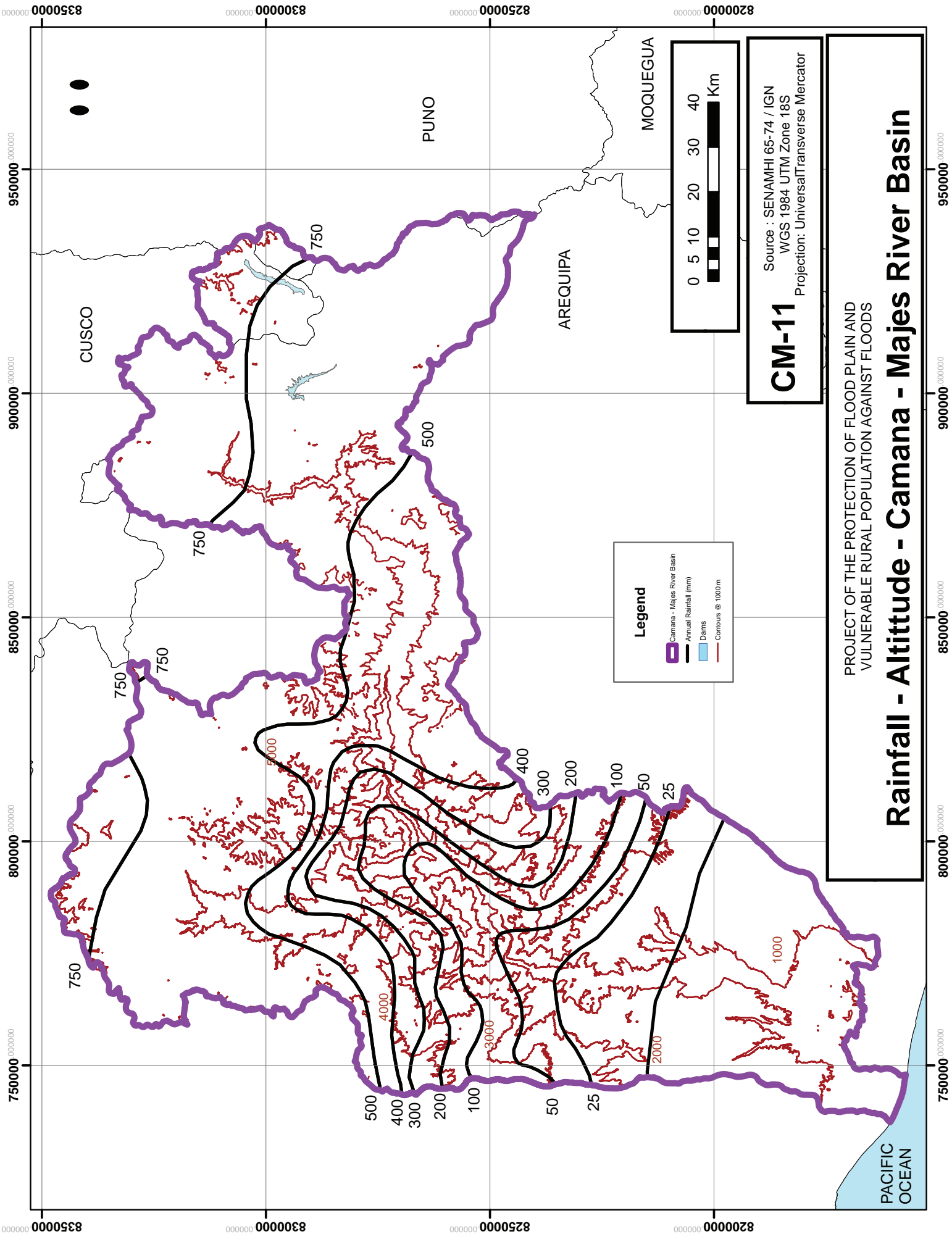
0 5 10 20 30 40 Km

Source : INRENA
 JICA Study Team
 WGS 1984 UTM Zone 18S
 Projection: UniversalTransverse Mercator

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

Soils Groups Map

Camana - Majes River Basin



Legend

- Camana - Majes River Basin
- Annual Rainfall (mm)
- Dams
- Contours @ 1000m

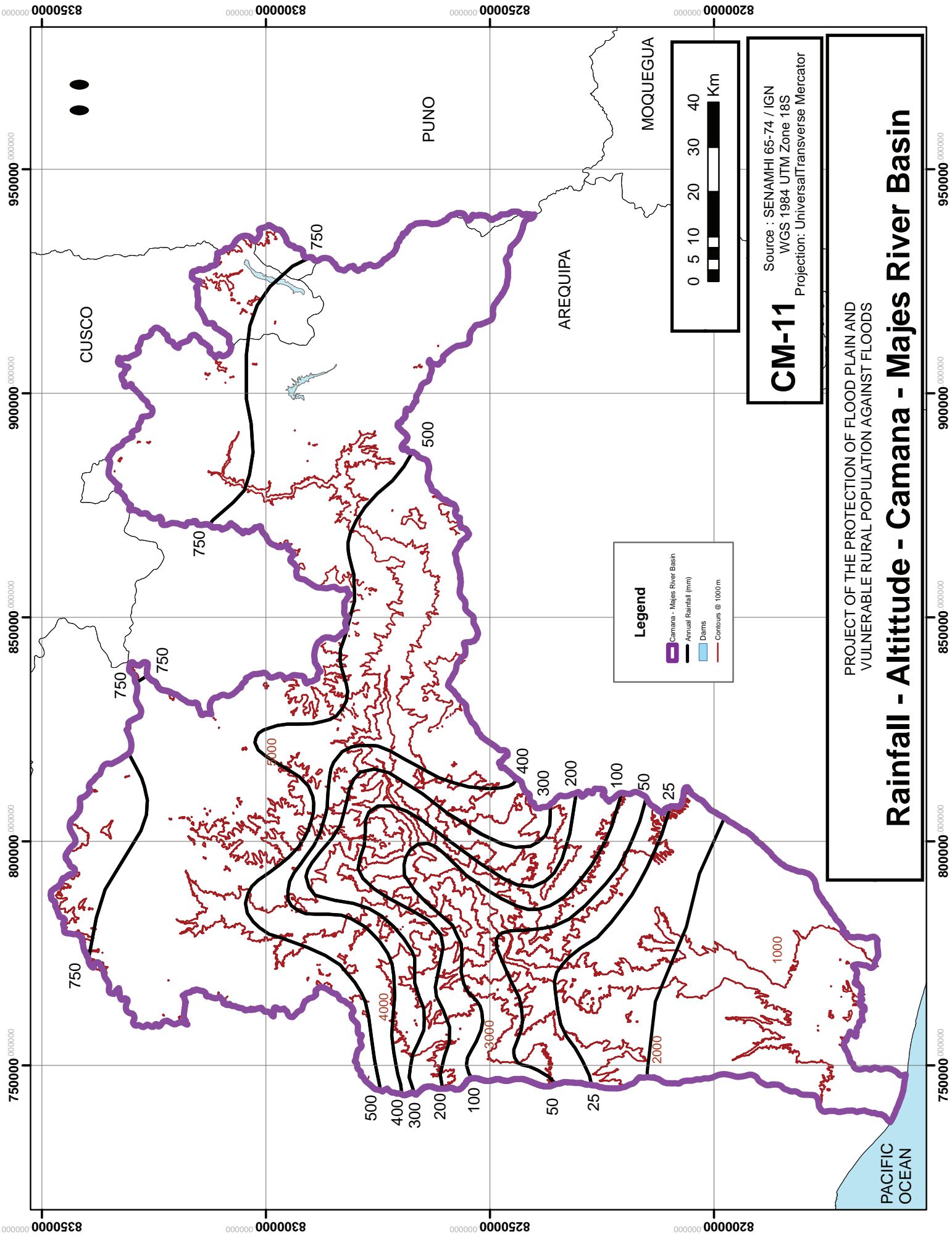
0 5 10 20 30 40 Km

CM-11

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

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

Rainfall - Altitude - Camana - Majes River Basin



Legend

- Camana - Majes River Basin
- Annual Rainfall (mm)
- Dams
- Contours @ 1000m

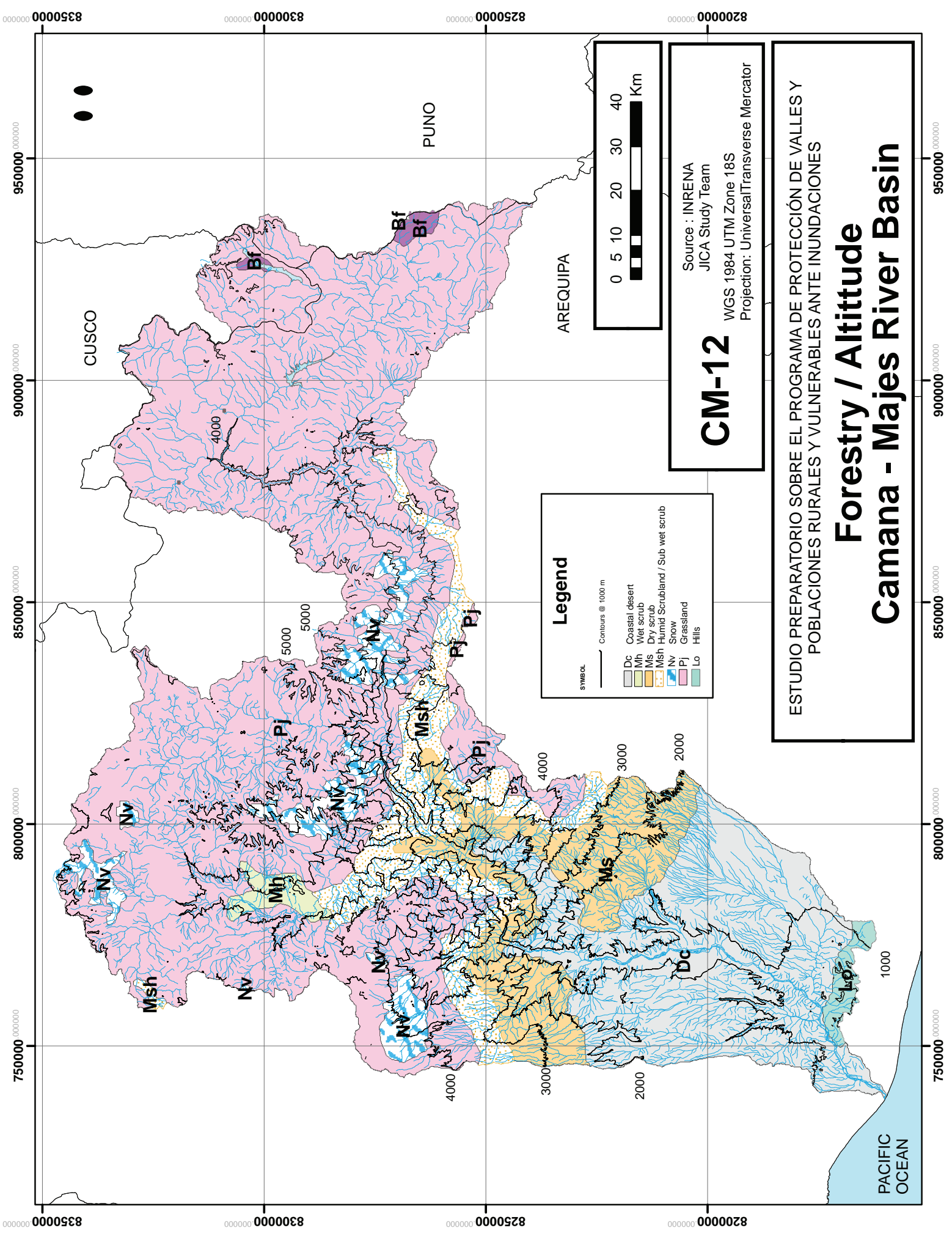
0 5 10 20 30 40 Km

CM-11

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

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

Rainfall - Altitude - Camana - Majes River Basin

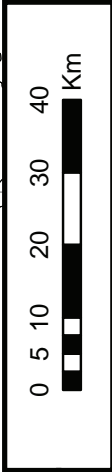


Legend

SYMBOL

— Contours @ 1000 m

- Dc Coastal desert
- Mh Wet scrub
- Ms Dry scrub
- Msh Humid Scrubland / Sub wet scrub
- Nv Snow
- Pj Grassland
- Lo Hills



CM-12

Source : INRENA
JICA Study Team

WGS 1984 UTM Zone 18S
Projection: Universal Transverse Mercator

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

Forestry / Altitude

Camana - Majes River Basin

8350000 8300000 8250000 8200000

950000 900000 850000 800000 750000

CUSCO

AREQUIPA

PUNO

4000

5000

4000

3000

2000

1000

PACIFIC OCEAN

Mish

Nv

Mh

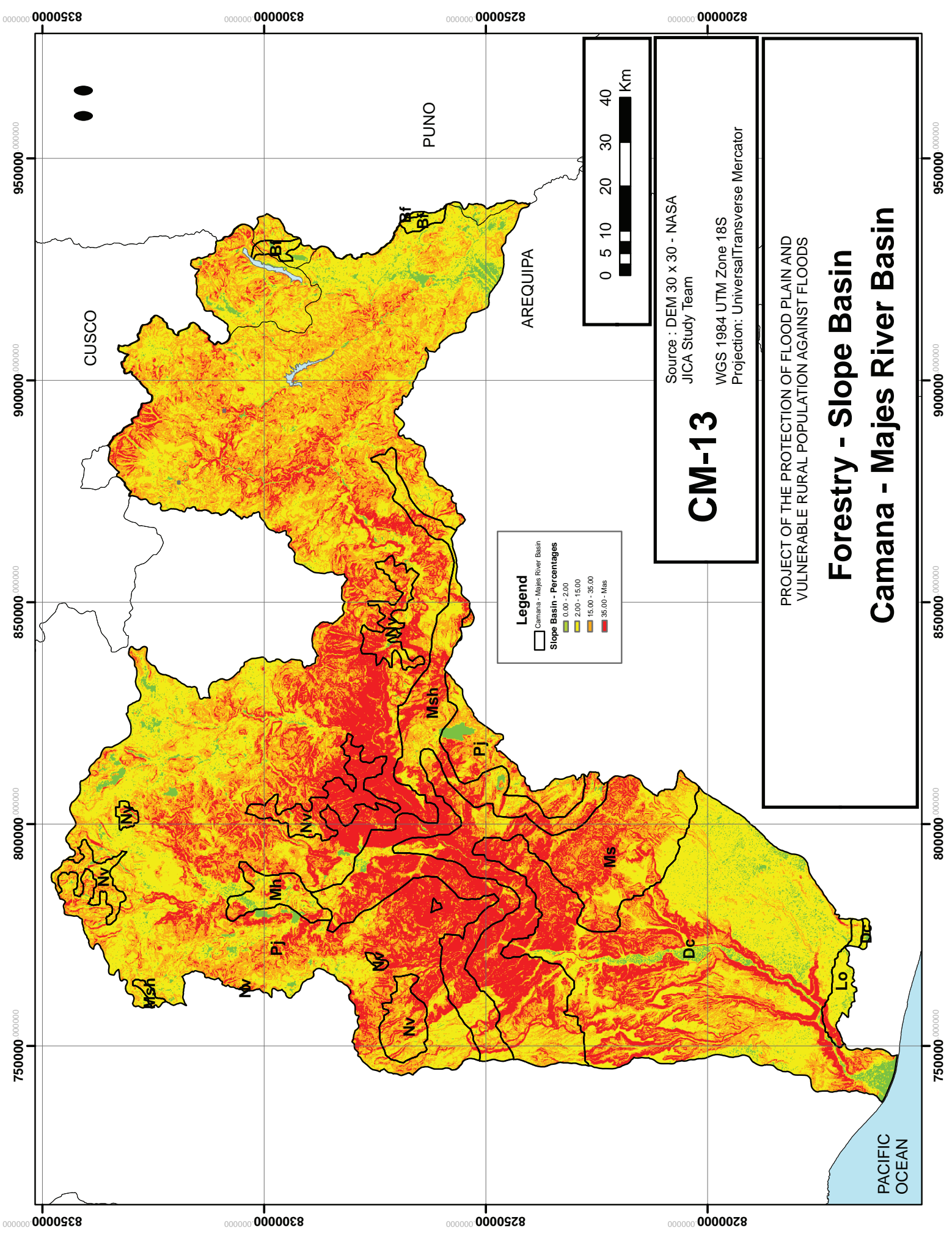
Ms

Dc

Pj

Lo

Bf



Legend

- Camana - Majes River Basin
- Slope Basin - Percentages
 - 0.00 - 2.00
 - 2.00 - 15.00
 - 15.00 - 35.00
 - 35.00 - Mas

CM-13

Source : DEM 30 x 30 - NASA
 JICA Study Team
 WGS 1984 UTM Zone 18S
 Projection: UniversalTransverse Mercator

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

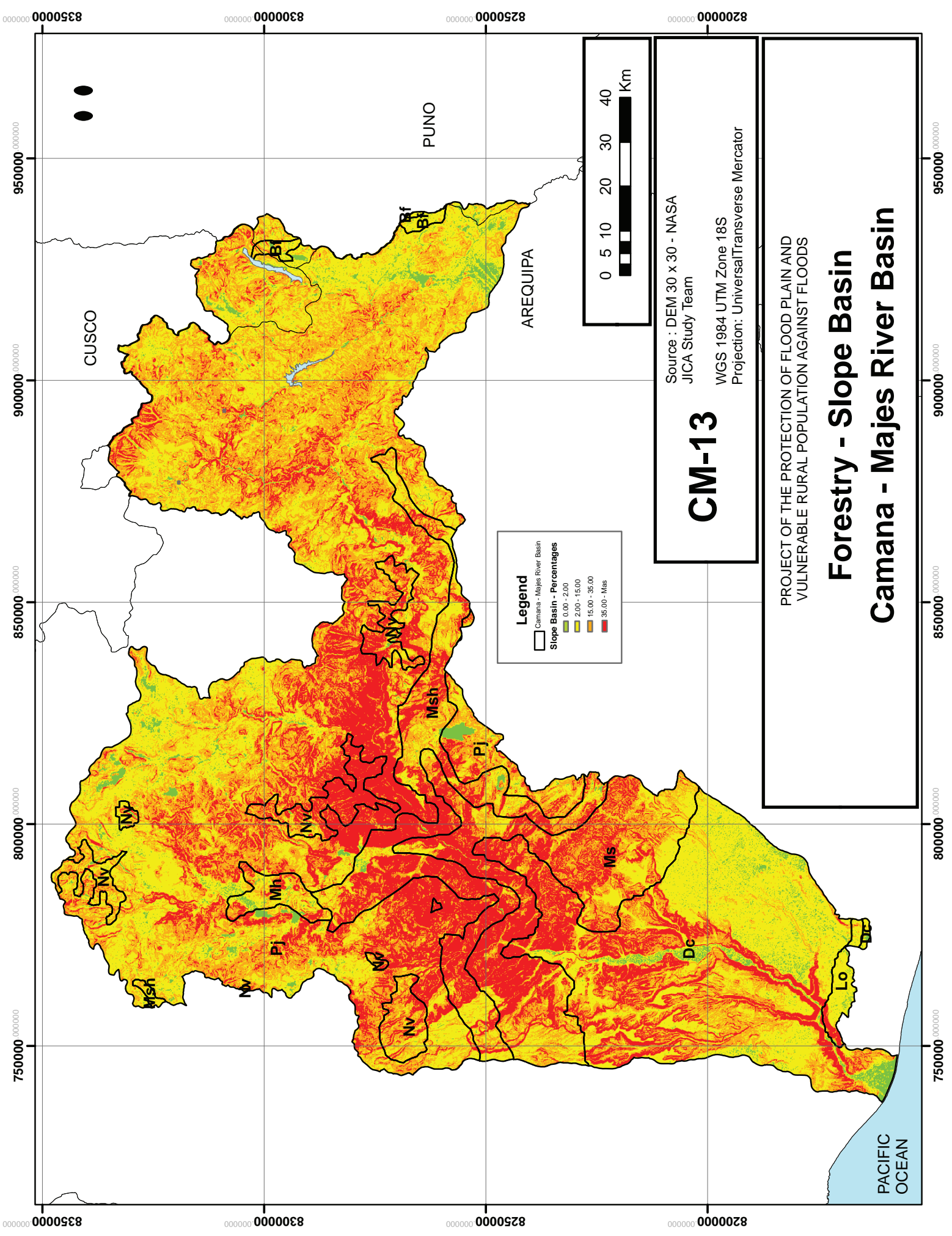
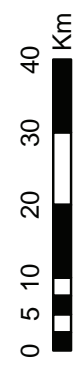
Forestry - Slope Basin
Camana - Majes River Basin

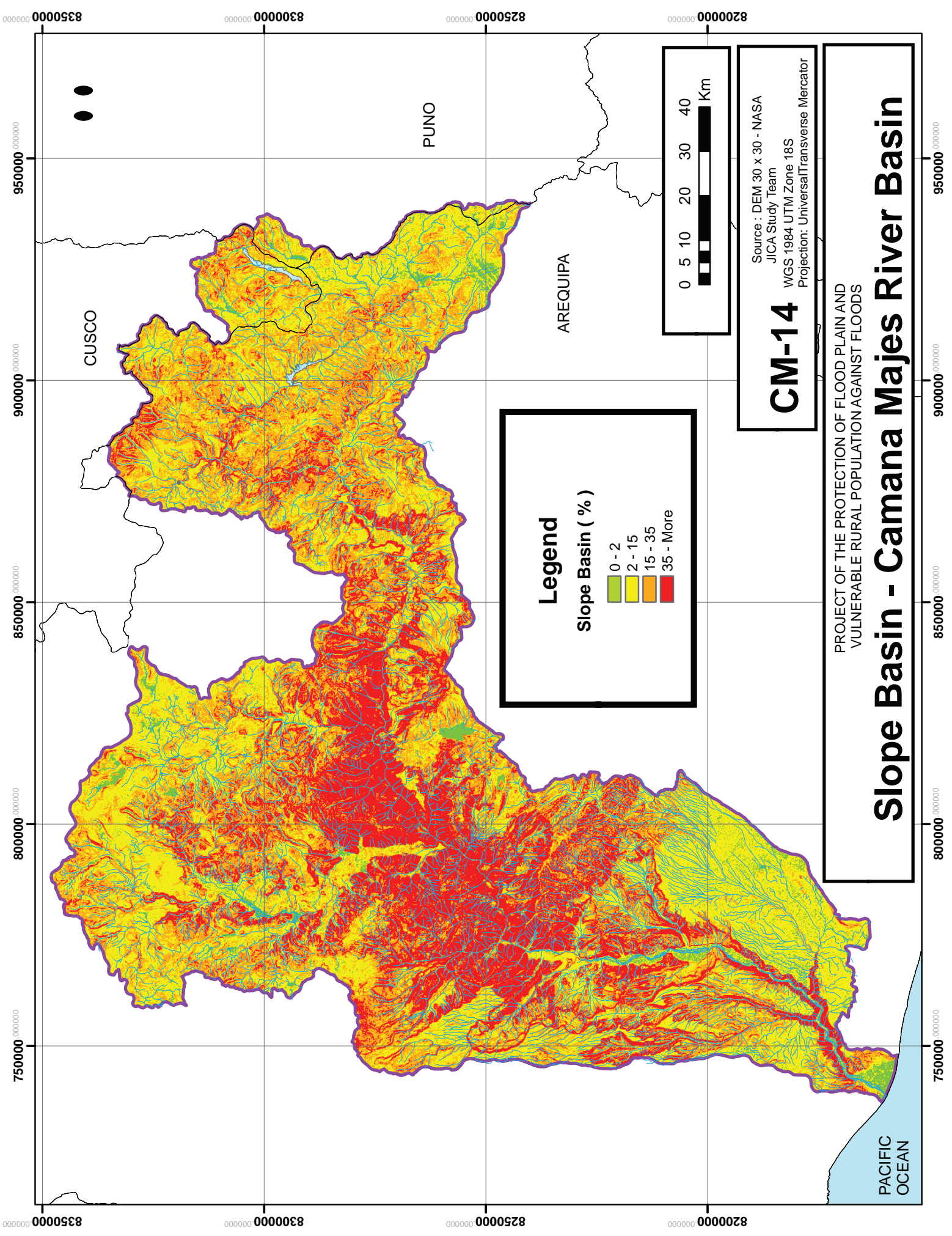
PACIFIC OCEAN

CUSCO

AREQUIPA

PUNO





Legend

Slope Basin (%)

- 0 - 2
- 2 - 15
- 15 - 35
- 35 - More

0 5 10 20 30 40 Km

CM-14

Source : 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 - Camana Majes River Basin

PACIFIC OCEAN

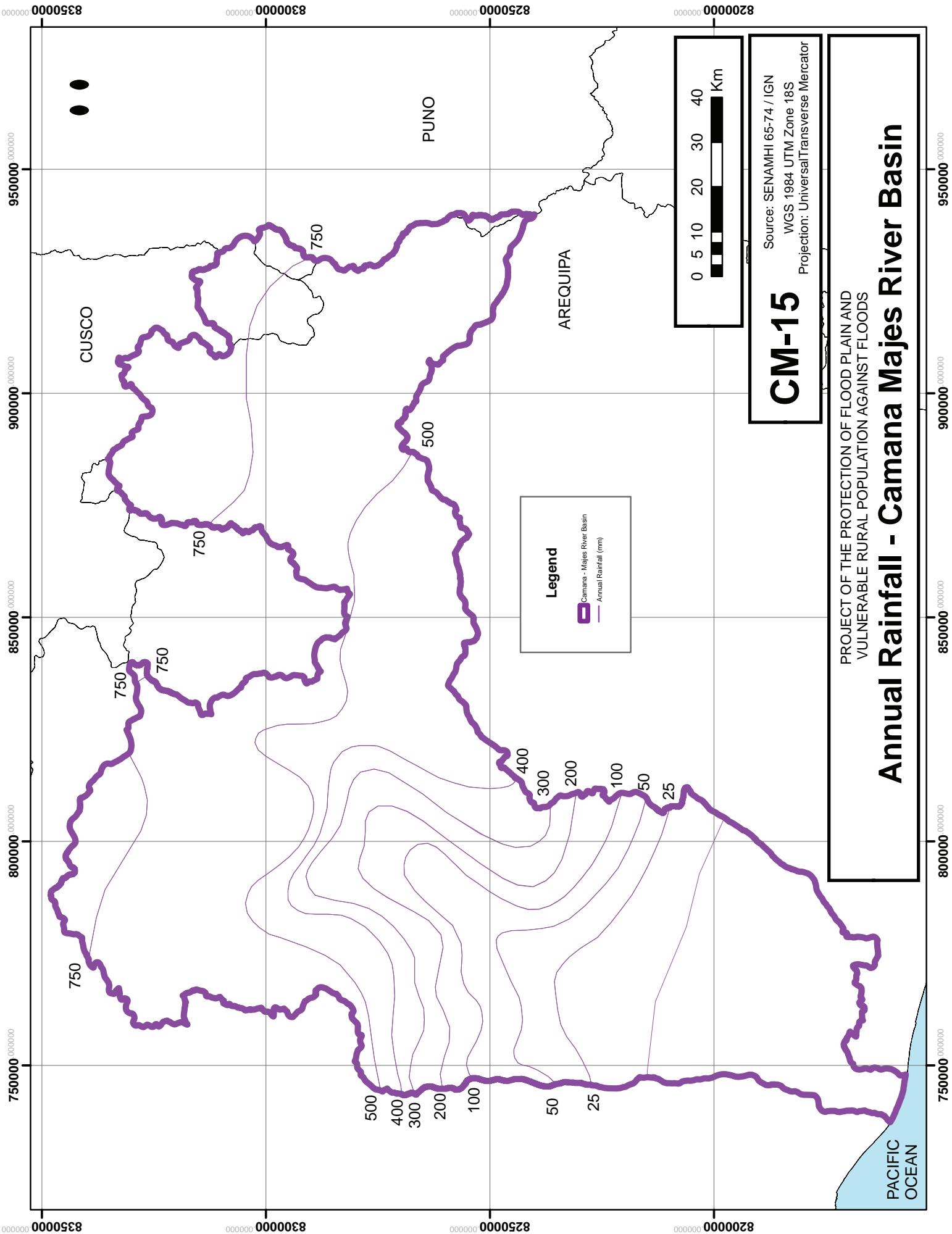
CUSCO

AREQUIPA

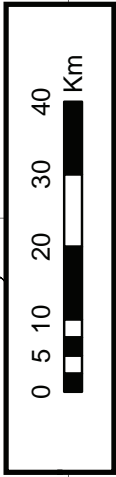
PUNO

8350000 950000 8300000 900000 8250000 850000 8200000 800000 750000

8350000 950000 8300000 900000 8250000 850000 8200000 800000 750000



CM-15
 Source: SENAMHI 65-74 / IGN
 WGS 1984 UTM Zone 18S
 Projection: Universal Transverse Mercator



Legend
 Camana - Majes River Basin
 Annual Rainfall (mm)

PROJECT OF THE PROTECTION OF FLOOD PLAIN AND
 VULNERABLE RURAL POPULATION AGAINST FLOODS
Annual Rainfall - Camana Majes River Basin

8350000 9000000 8300000 8250000 8200000 8350000
 9500000 9000000 8500000 8000000 7500000

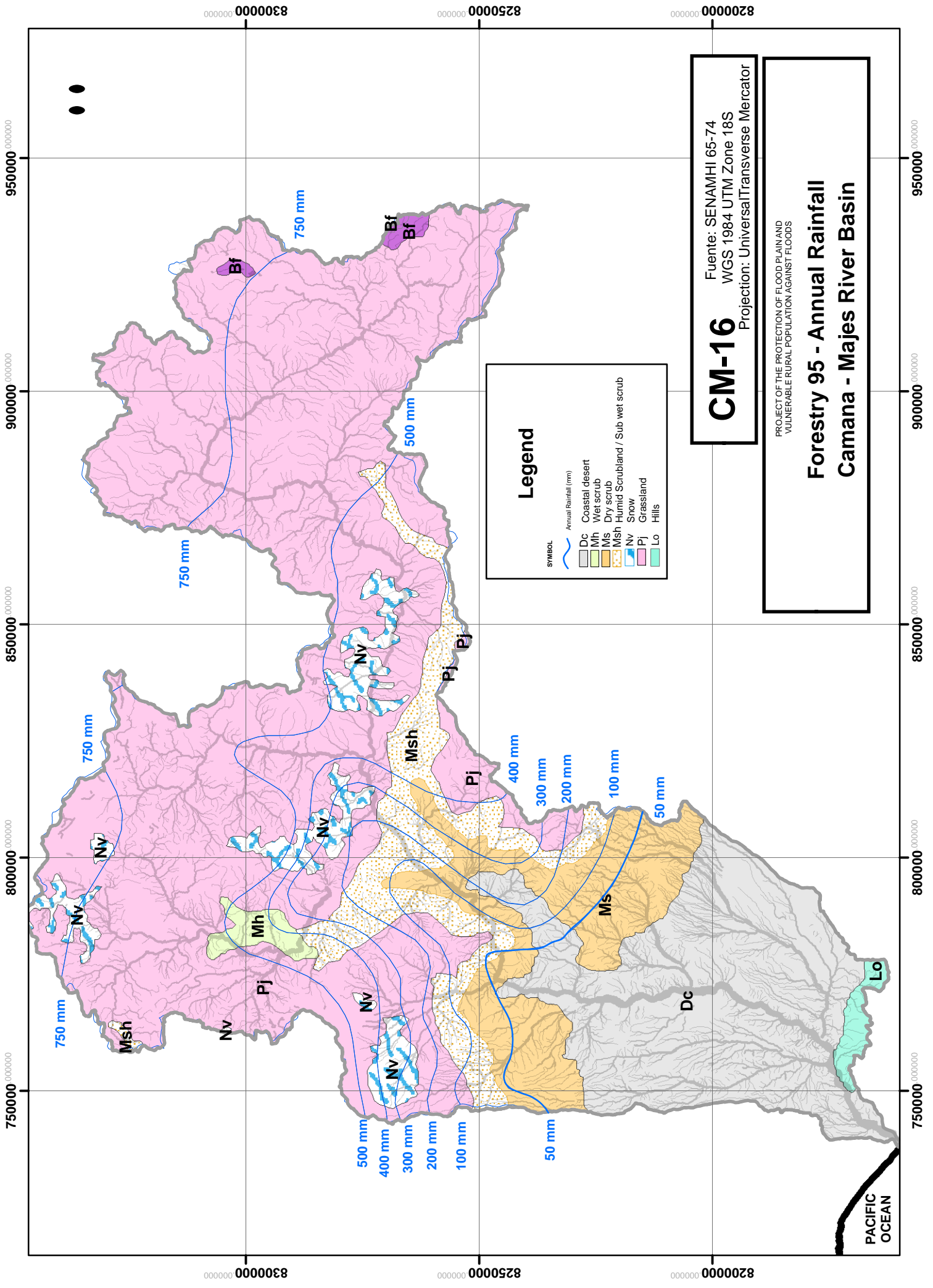
9500000 9000000 8500000 8000000 7500000

CUSCO

PUNO

AREQUIPA

PACIFIC OCEAN



Legend

SYMBOL

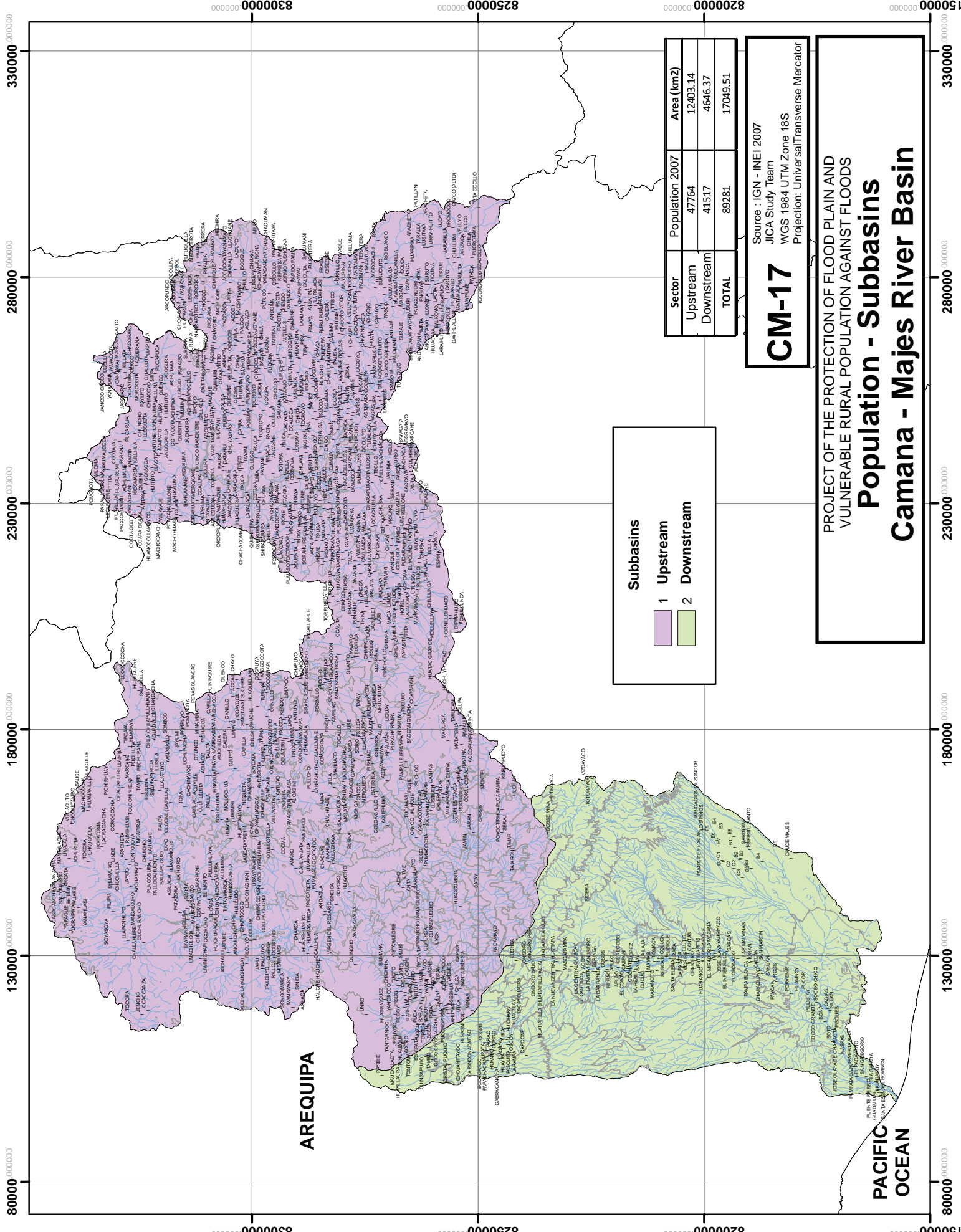
- Annual Rainfall (mm)
- DC Coastal desert
- Mh Wet scrub
- MS Dry scrub
- Mish Humid Scrubland / Sub wet scrub
- NV Snow
- Pj Grassland
- Lo Hills

CM-16 Fuente: SENAMHI 65-74
 WGS 1984 UTM Zone 18S
 Projection: Universal Transverse Mercator

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

**Forestry 95 - Annual Rainfall
 Camana - Majes River Basin**

PACIFIC OCEAN



Sector	Population 2007	Area (km2)
Upstream	47764	12403.14
Downstream	41517	4646.37
TOTAL	89281	17049.51

CM-17
 Source : IGN - INEI 2007
 JICA Study Team
 WGS 1984 UTM Zone 18S
 Projection: UniversalTransverse Mercator

PROJECT OF THE PROTECTION OF FLOOD PLAIN AND
 VULNERABLE RURAL POPULATION AGAINST FLOODS
Population - Subbasins
Camana - Majes River Basin

Subbasins

- 1 Upstream
- 2 Downstream

80000 130000 180000 230000 280000 330000 830000 825000 820000 150000

80000 830000 825000 820000 150000

AREQUIPA

PACIFIC OCEAN

