



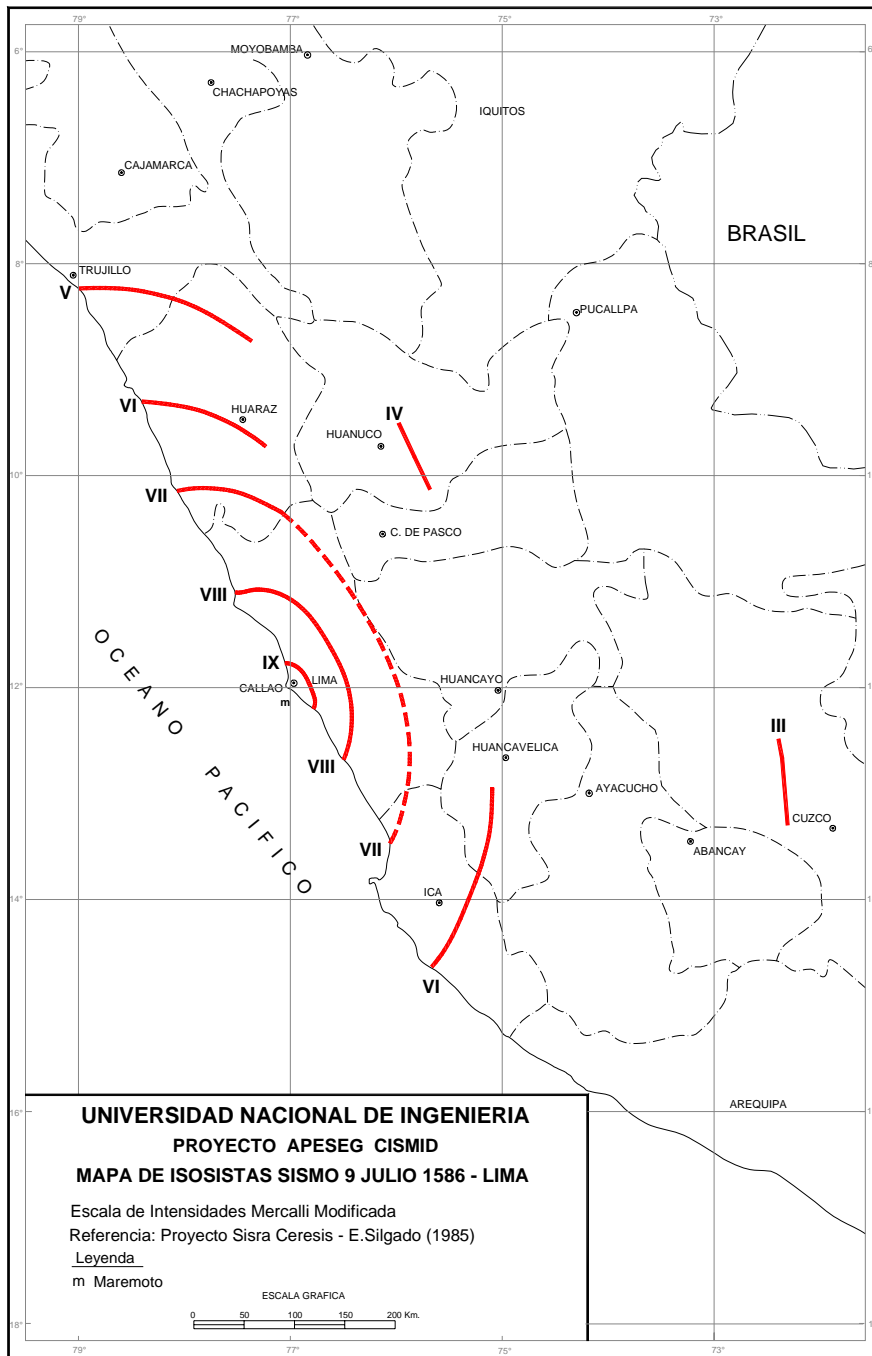
UNIVERSIDAD NACIONAL DE INGENIERÍA
Facultad de Ingeniería Civil
Sección de Postgrado

BANCO DE DATOS DE MAPAS DE ISOSISTAS EN EL PERU

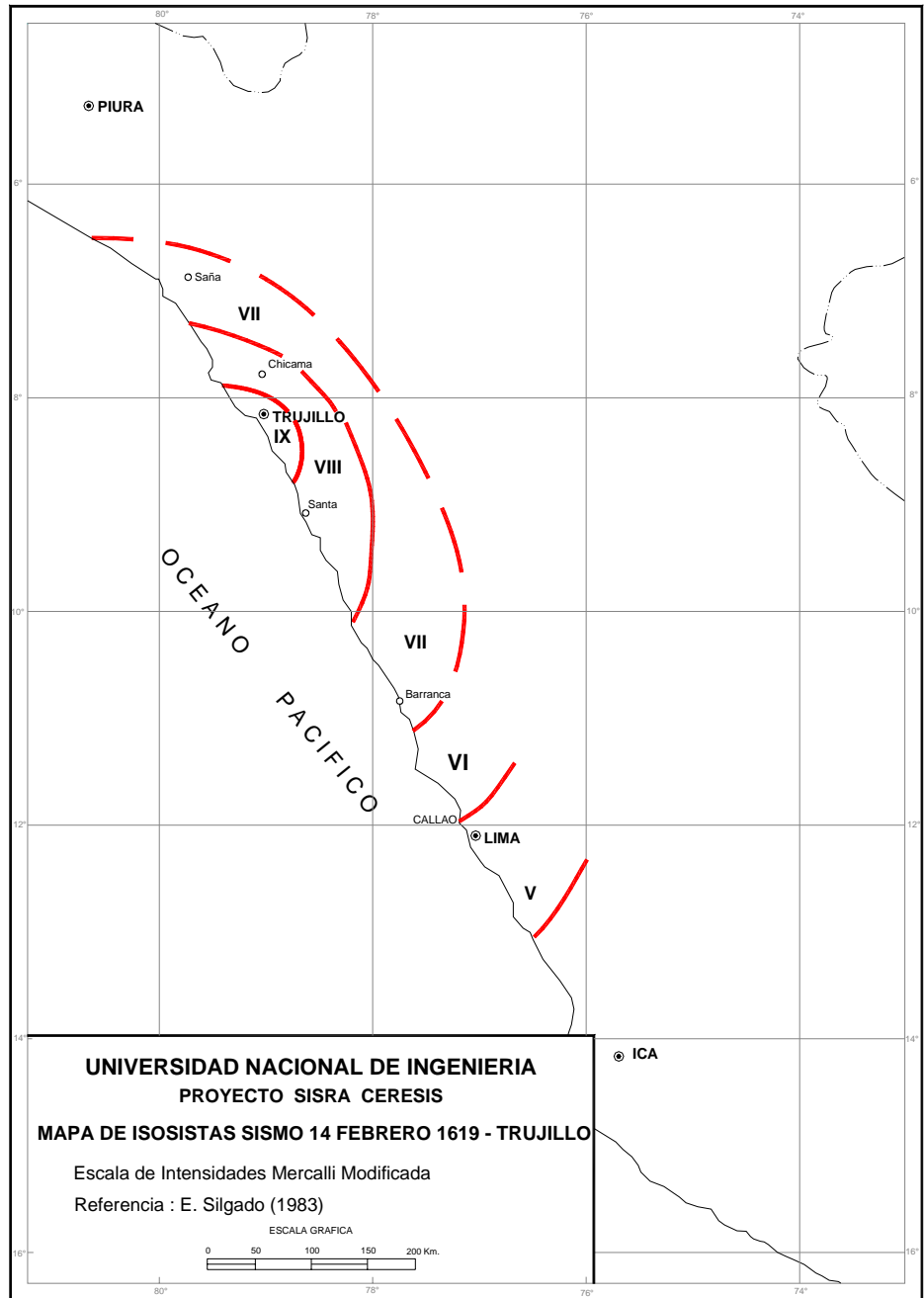
A la memoria del Dr. Enrique Silgado Ferro (1914-1999)

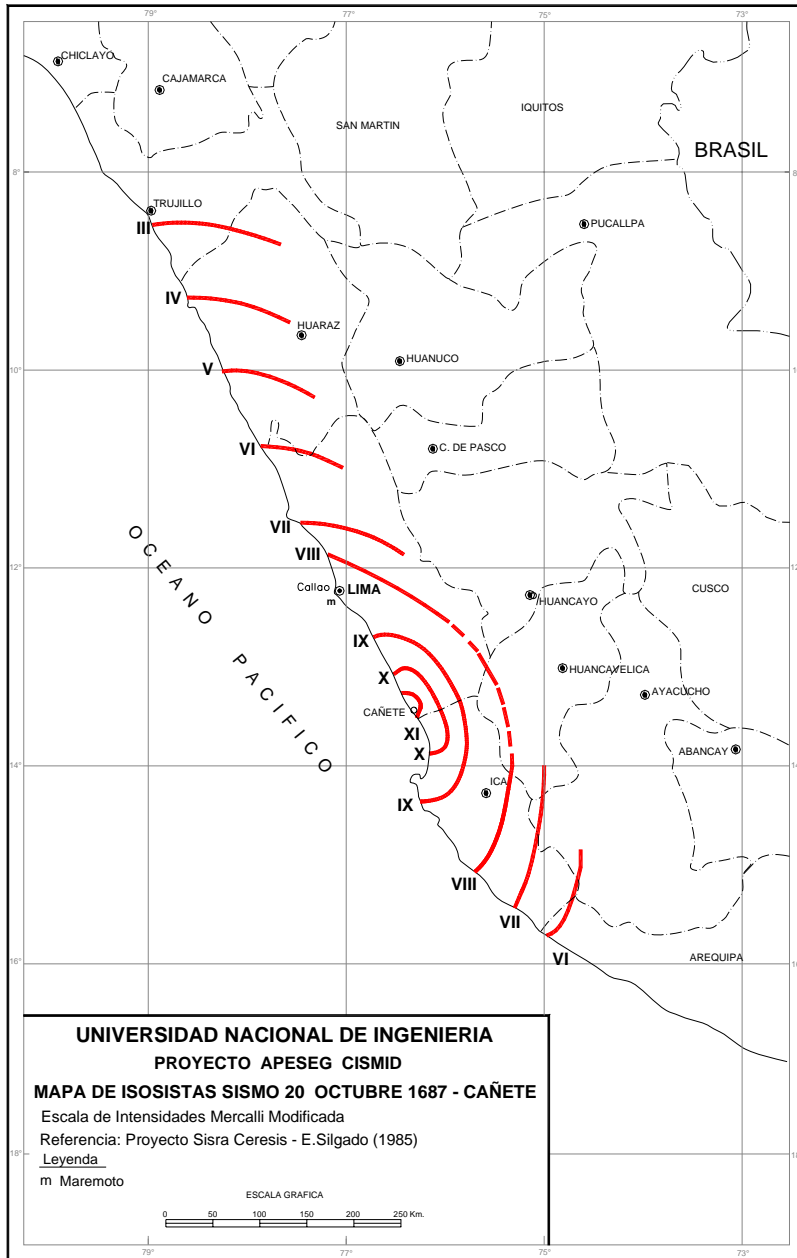
Jorge E. Alva Hurtado
FIC-UNI

MAPAS ISOSISTAS SIGLO XVI



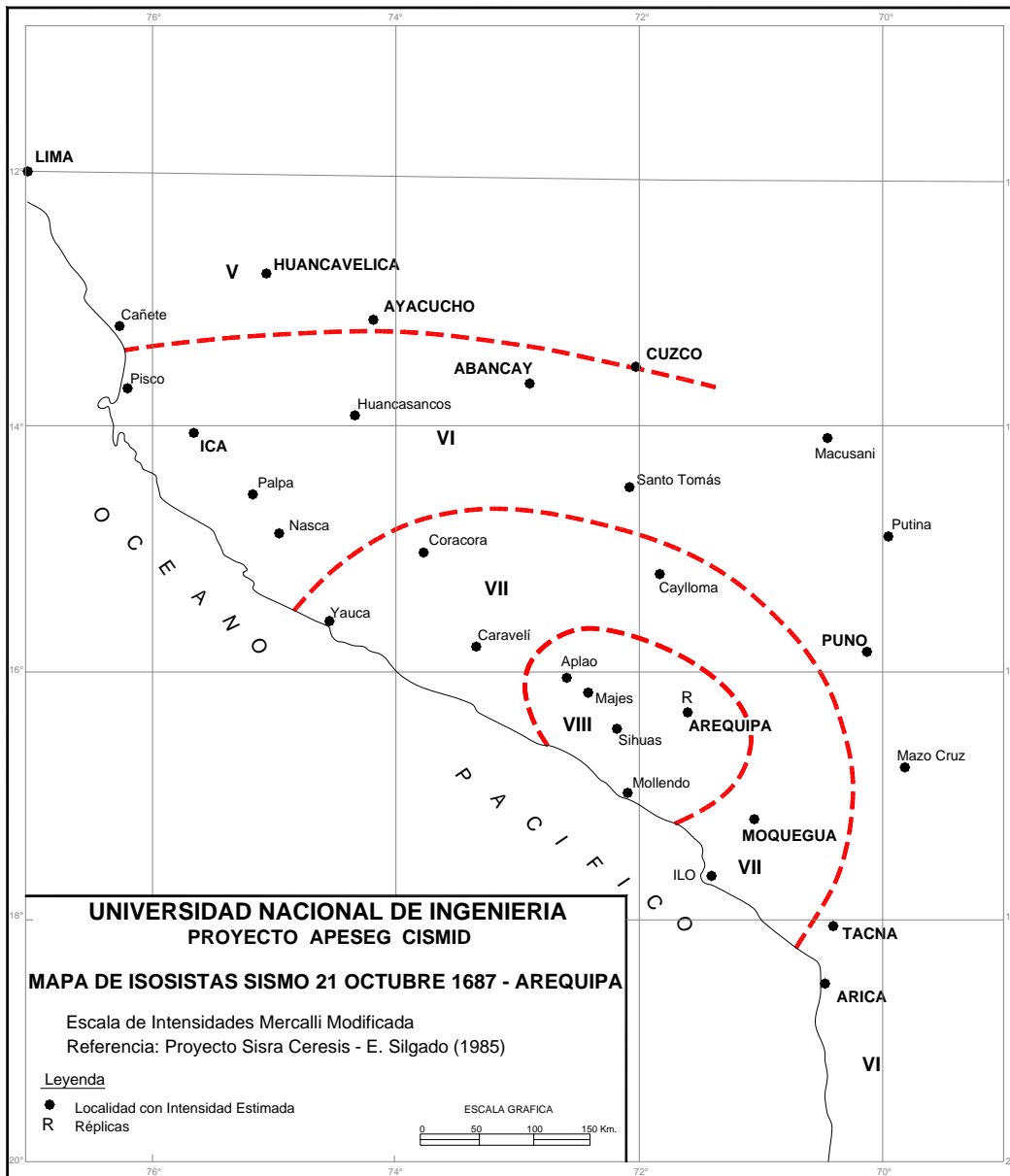
MAPAS ISOSISTAS SIGLO XVII

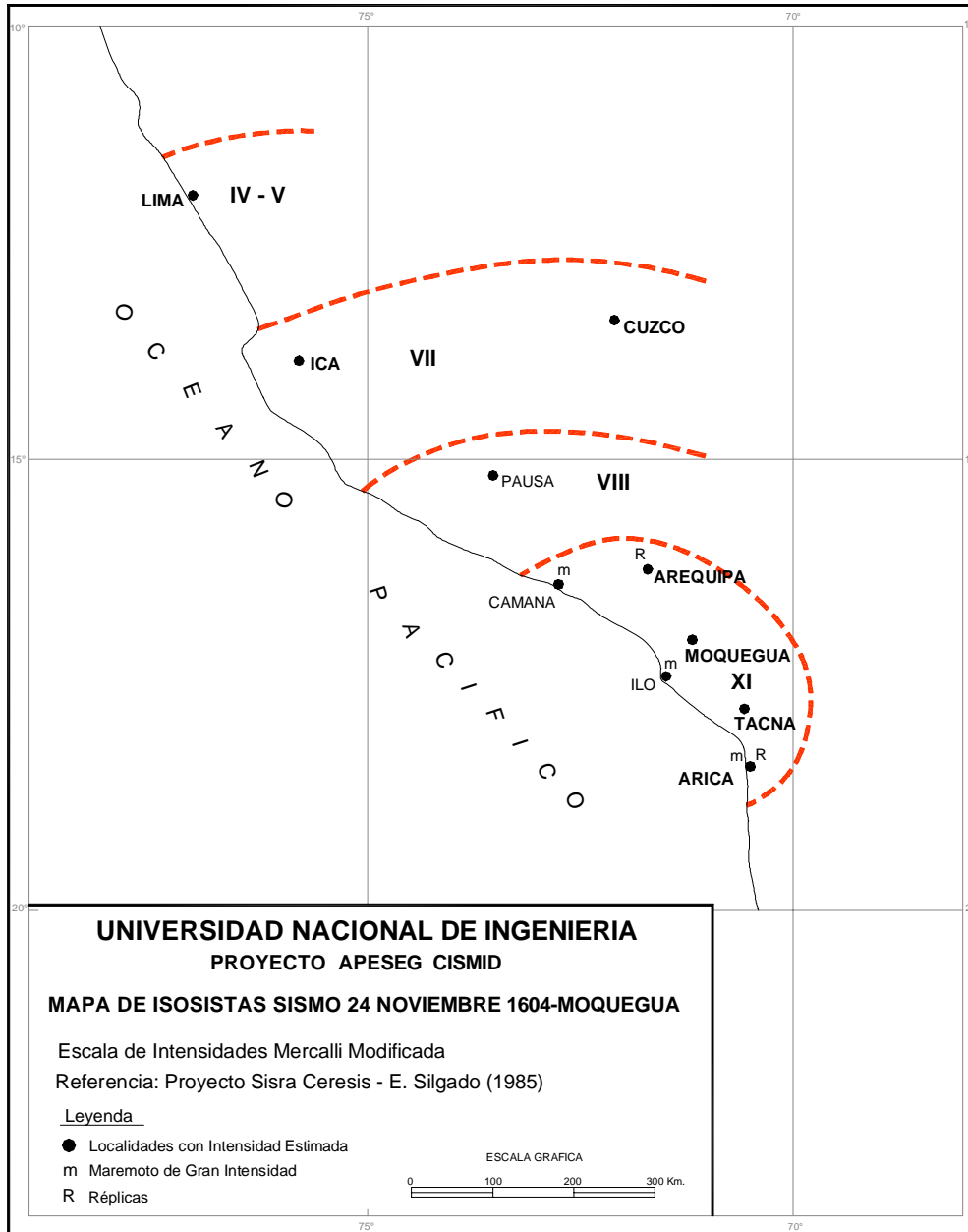




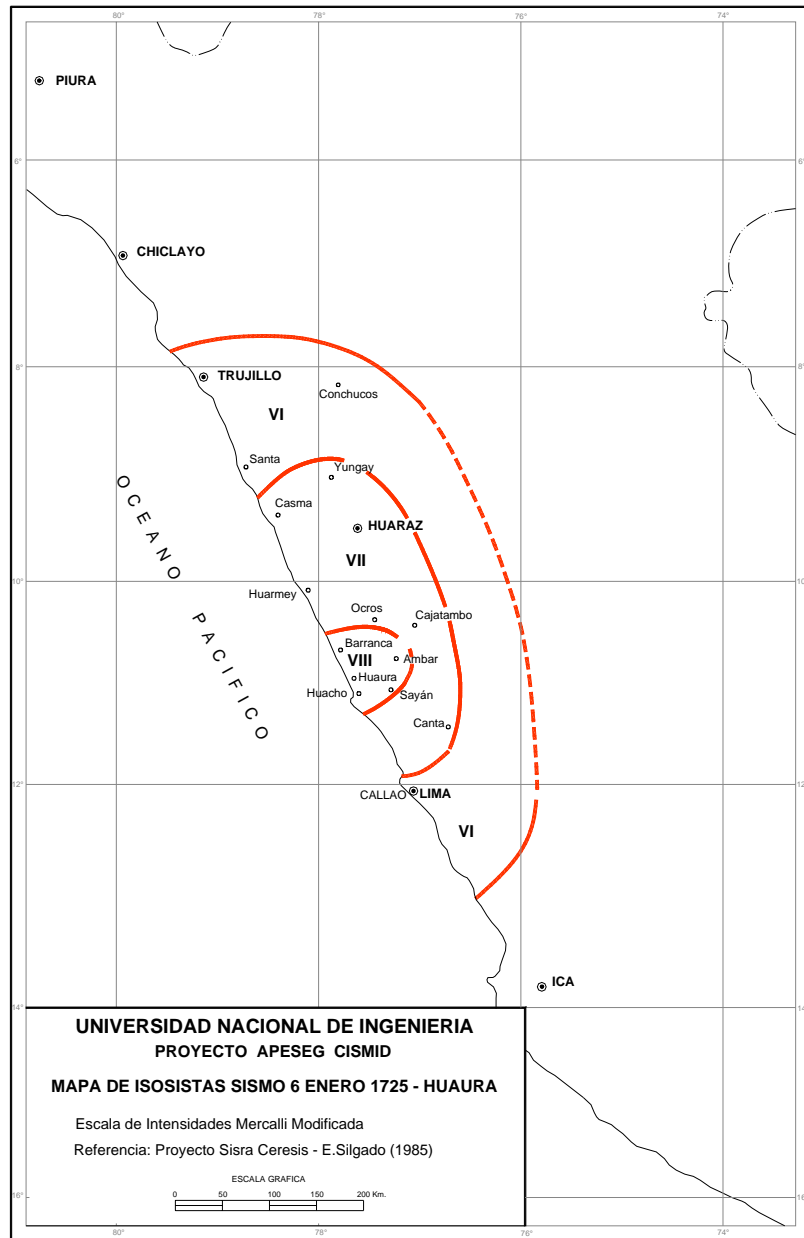
UNIVERSIDAD NACIONAL DE INGENIERIA
PROYECTO APESEG CISMID
MAPA DE ISOSISTAS SISMO 20 OCTUBRE 1687 - CAÑETE
 Escala de Intensidades Mercalli Modificada
 Referencia: Proyecto Sisra Ceresis - E. Silgado (1985)
Leyenda
 m Maremoto

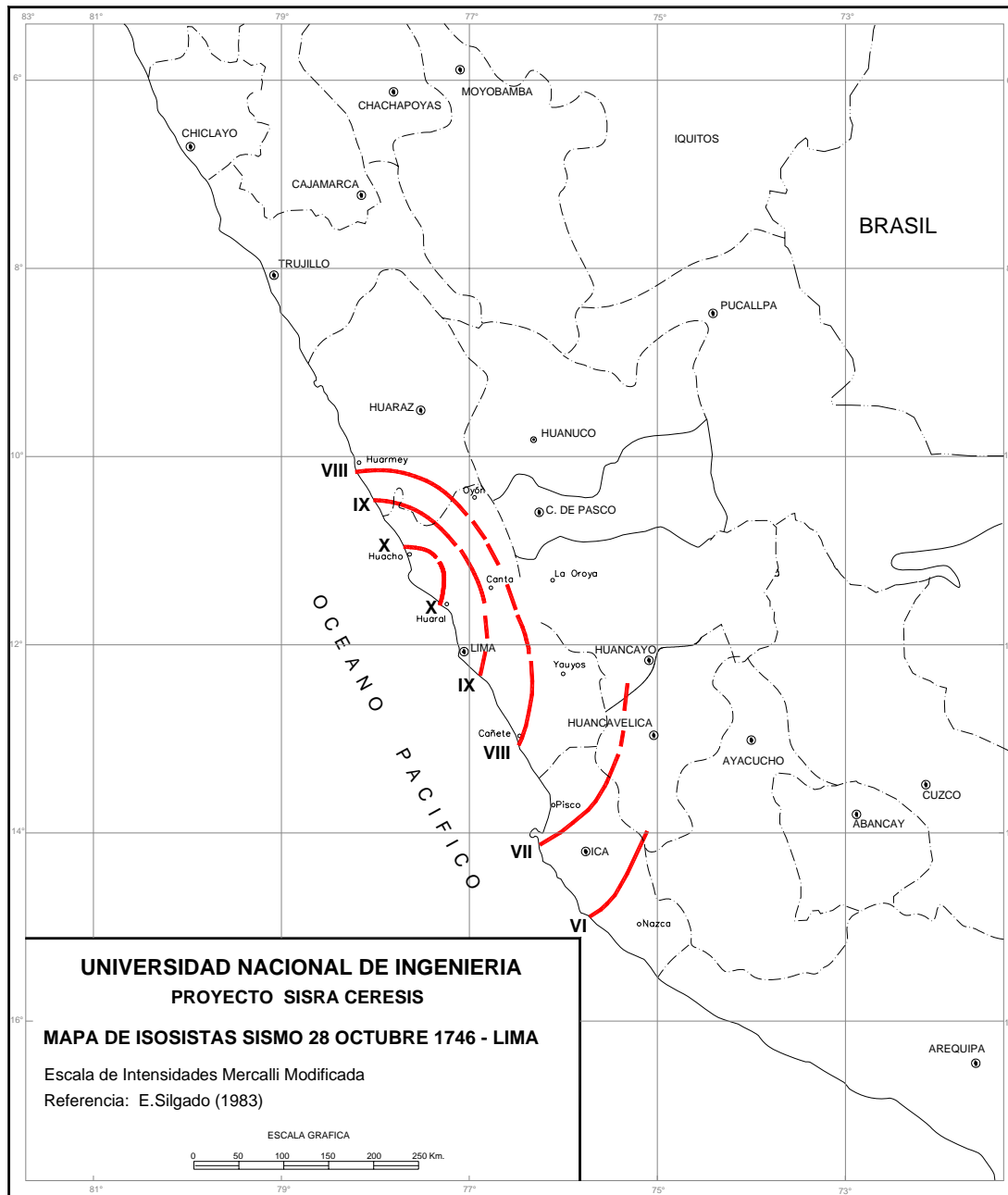


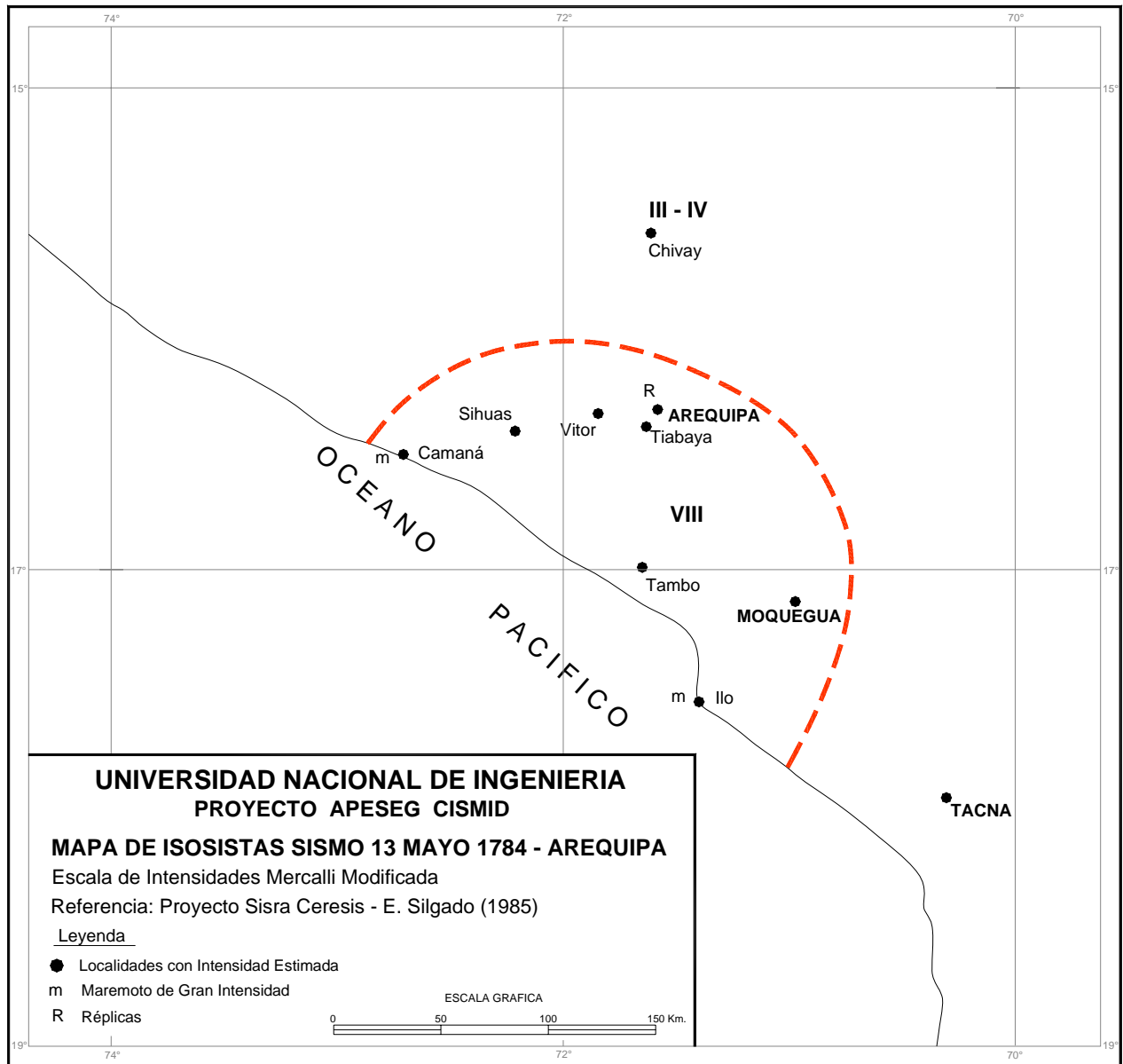




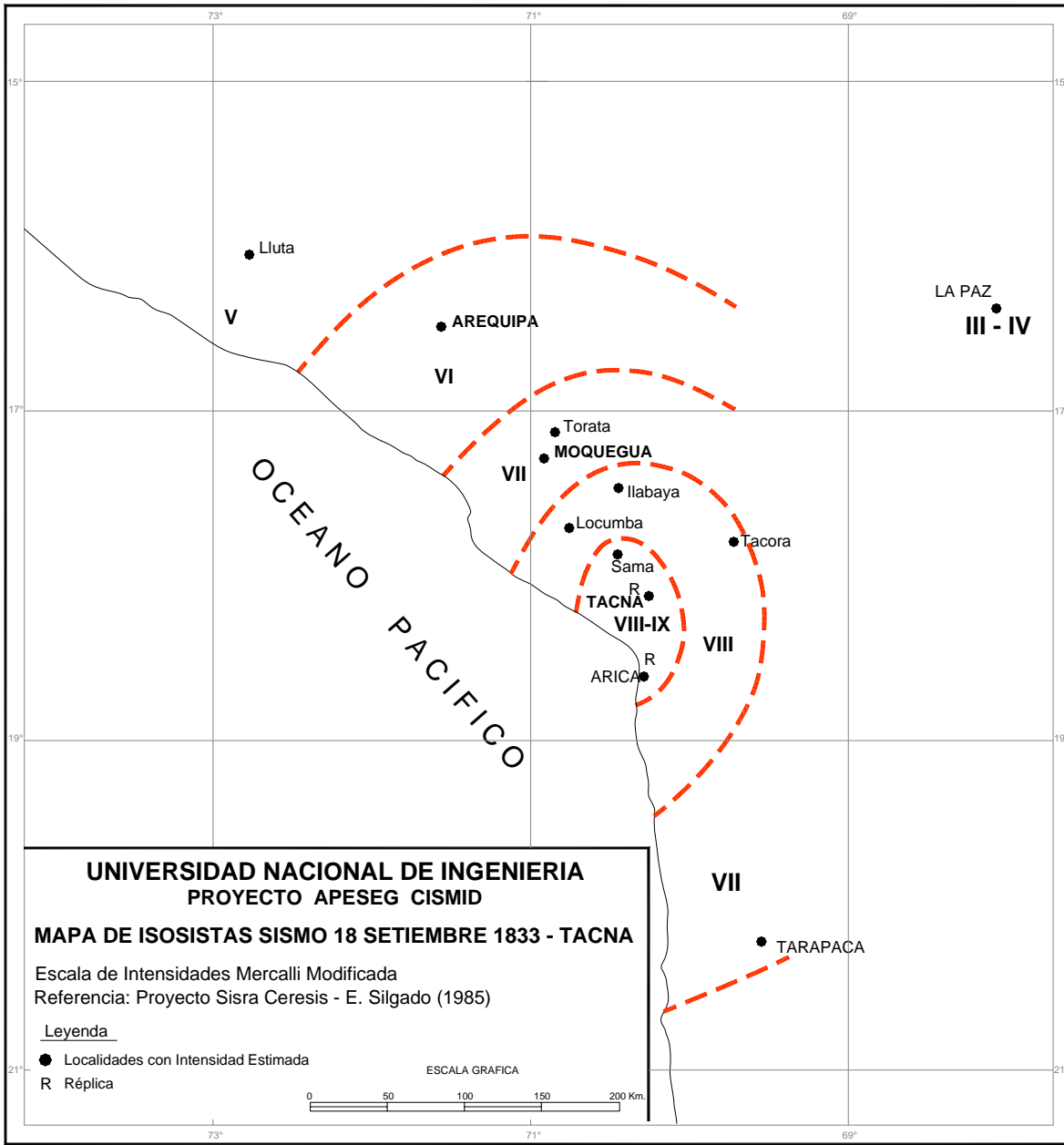
MAPAS ISOSISTAS SIGLO XVIII







MAPAS ISOSISTAS SIGLO XIX



73°

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69°

15°

15°

17°

17°

19°

19°

21°

21°

73°

71°

69°

Lluta

V

AREQUIPA

VI

LA PAZ
III - IV

Torata

MOQUEGUA

VII

Ilabaya

Locumba

Sama

R
TACNA

VIII-IX

VIII

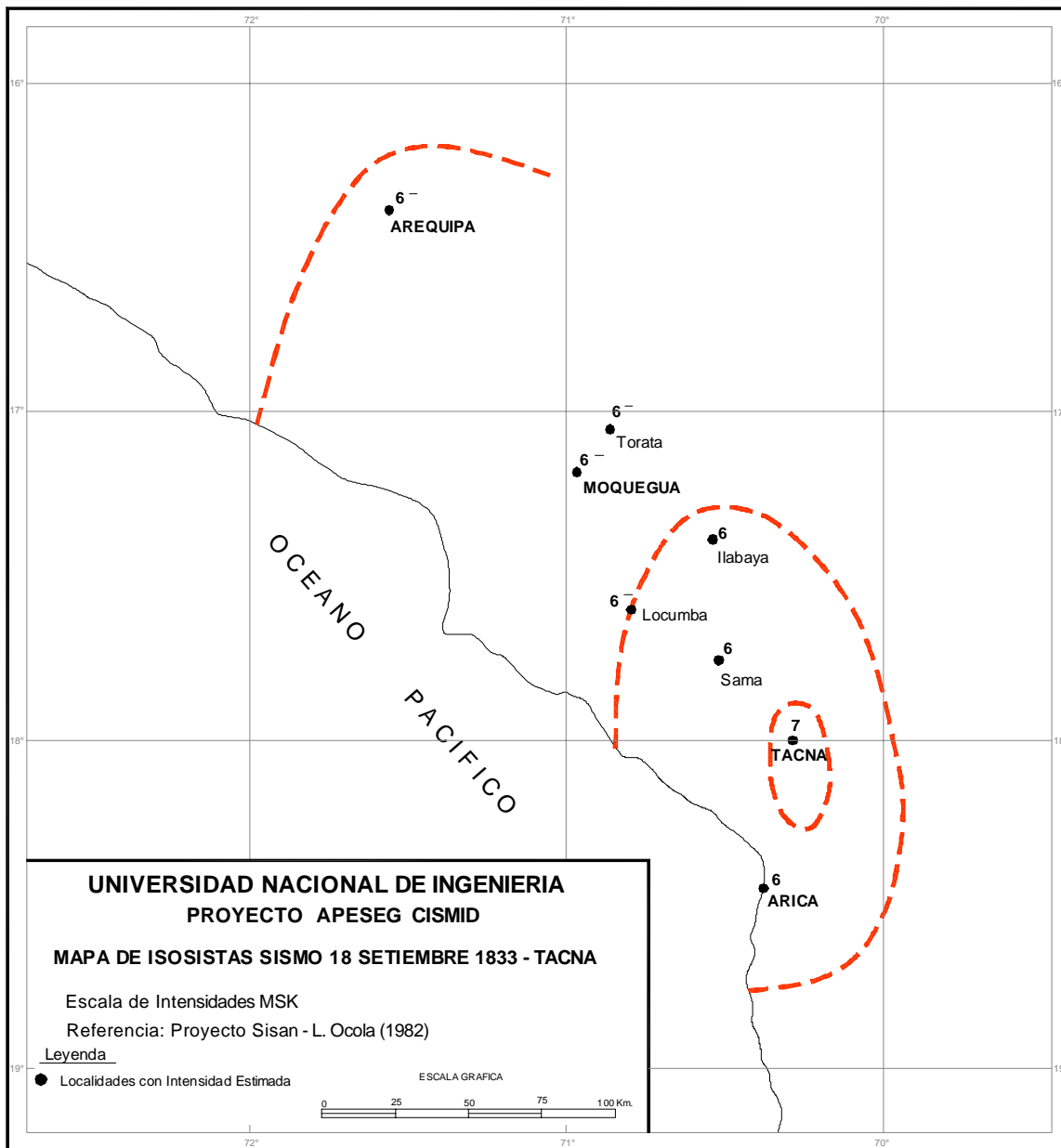
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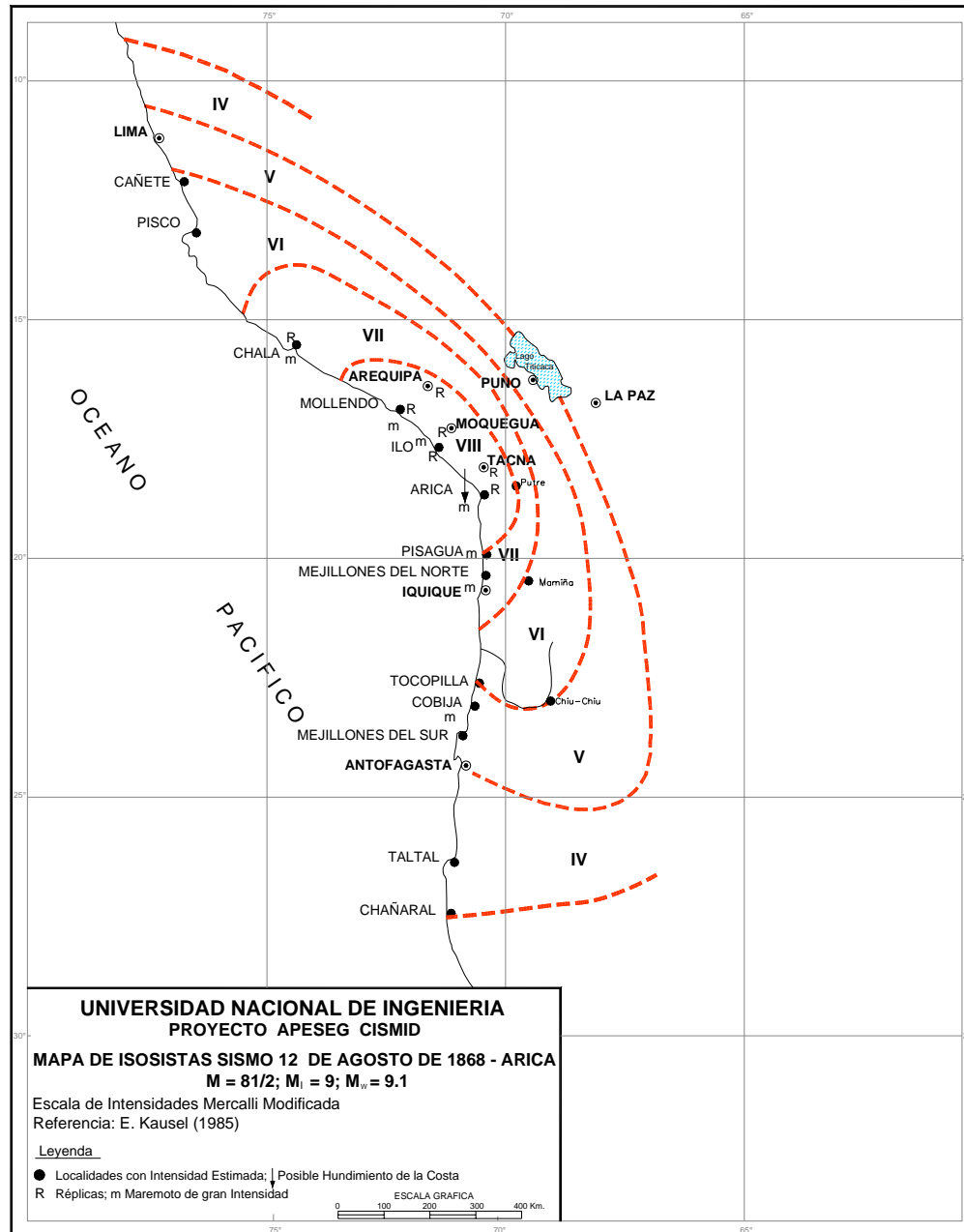
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ARICA

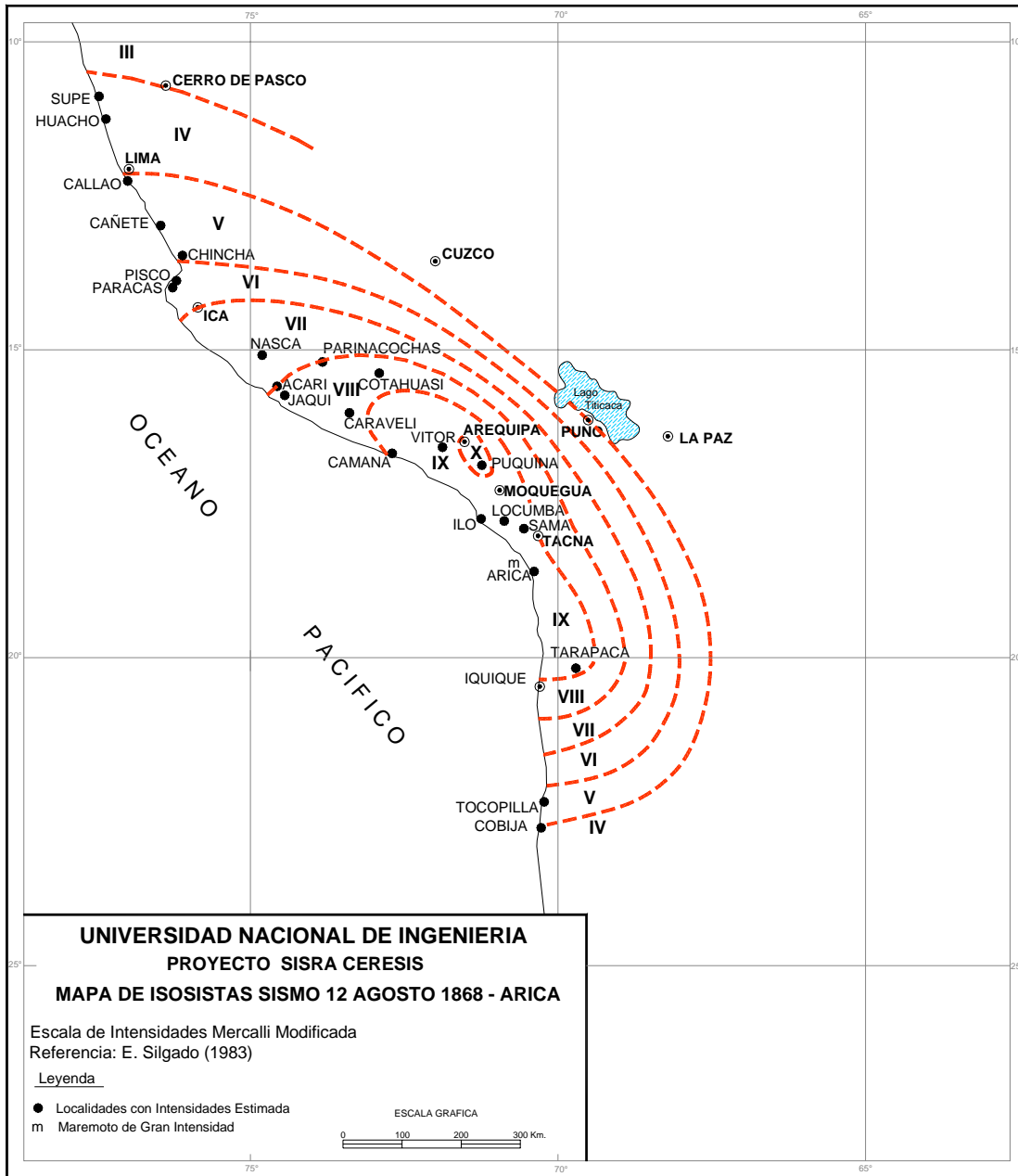
OCEANO PACIFICO

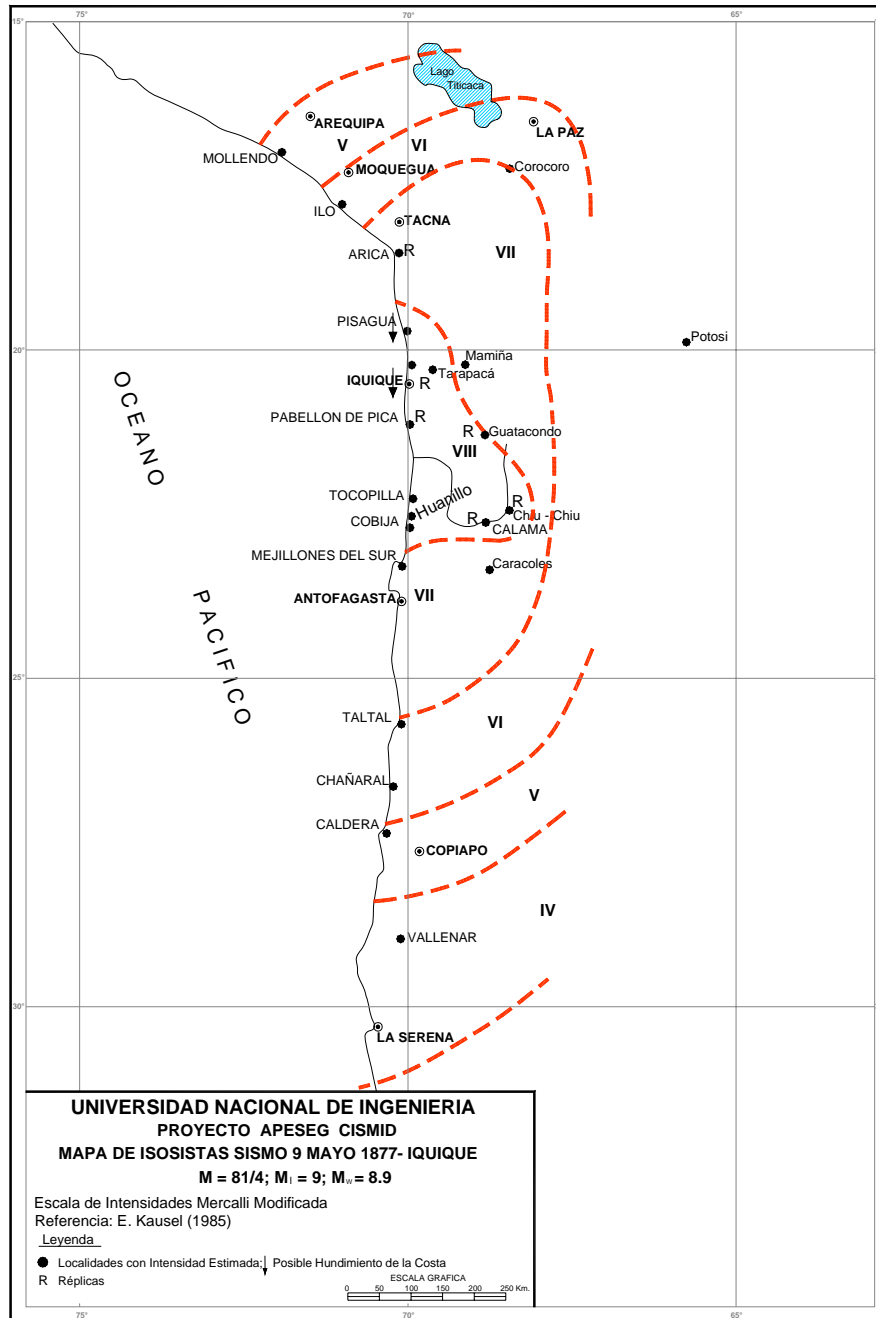
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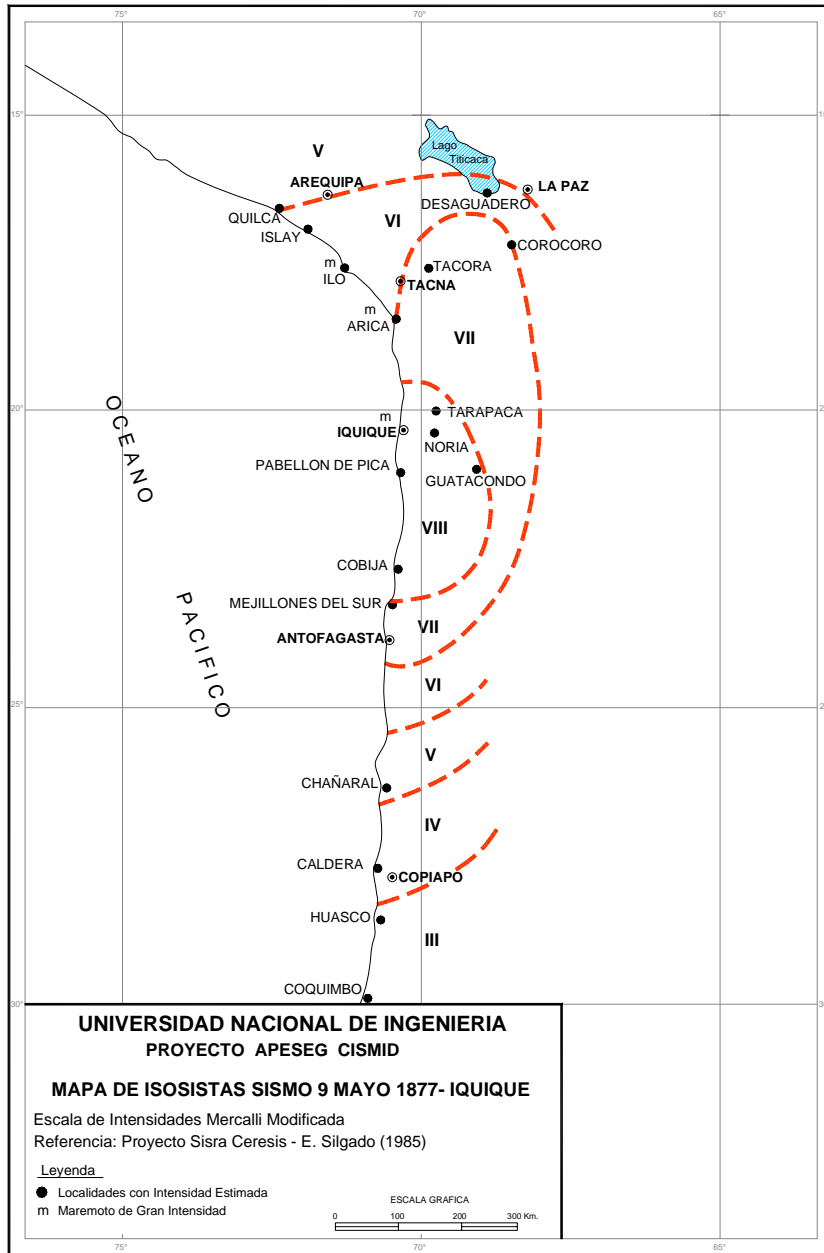
TARAPACA



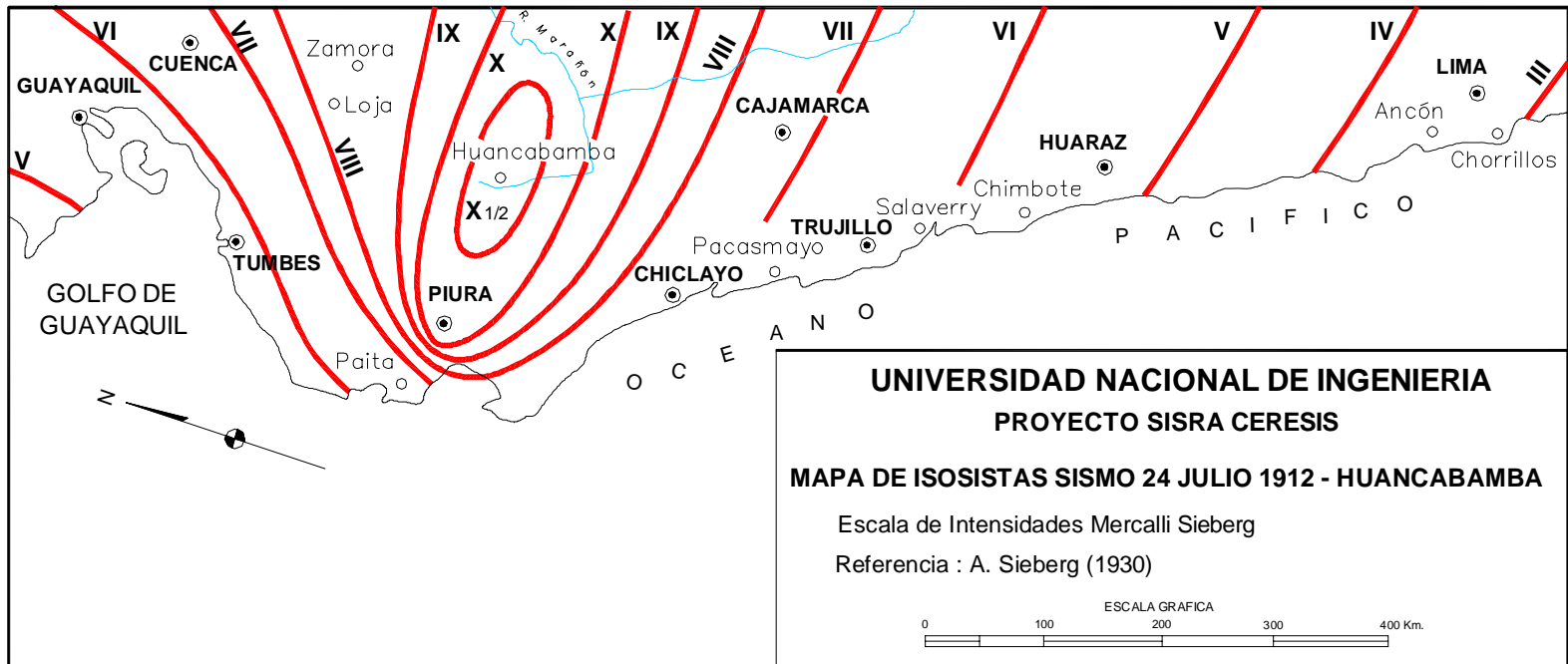


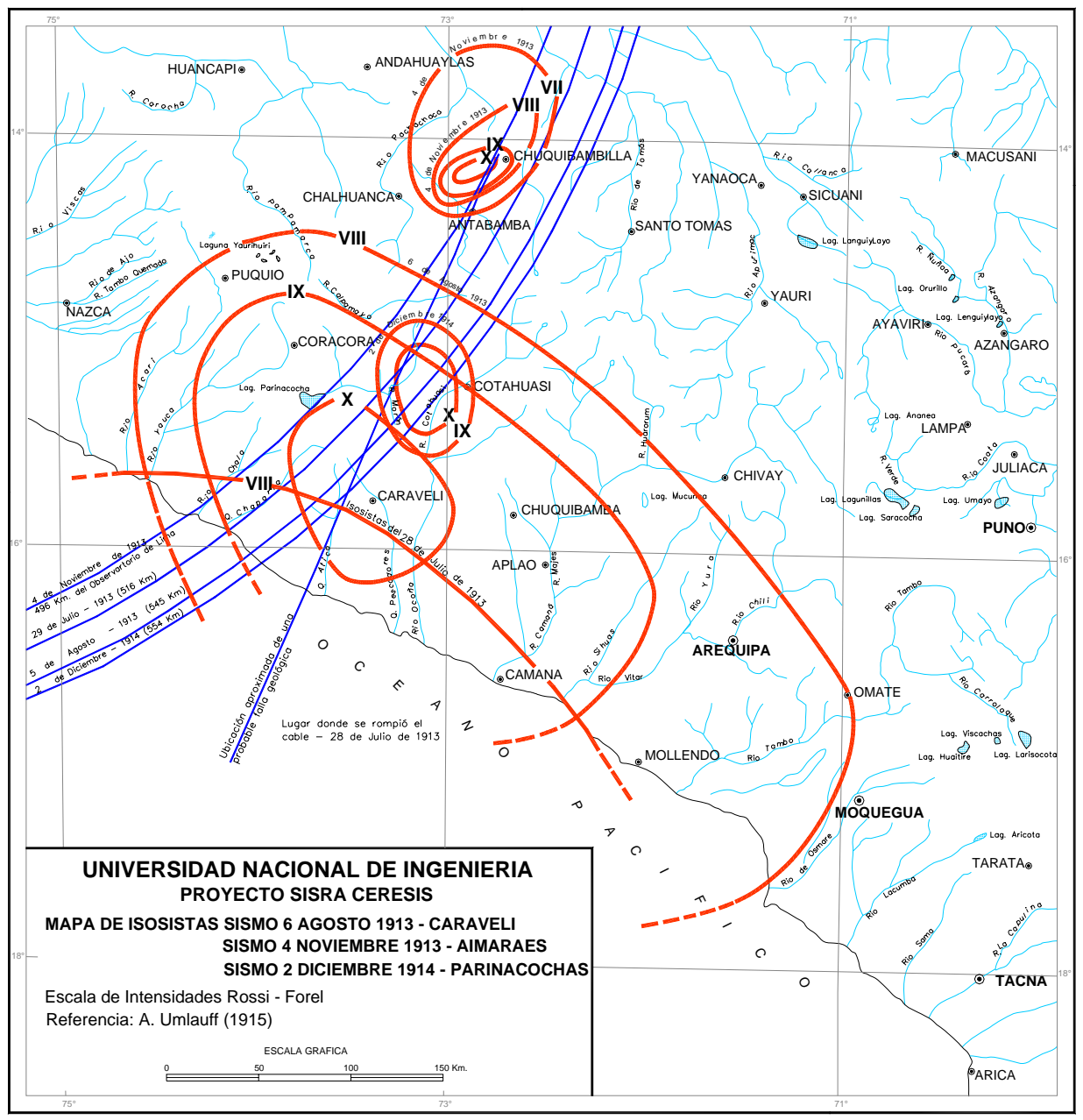


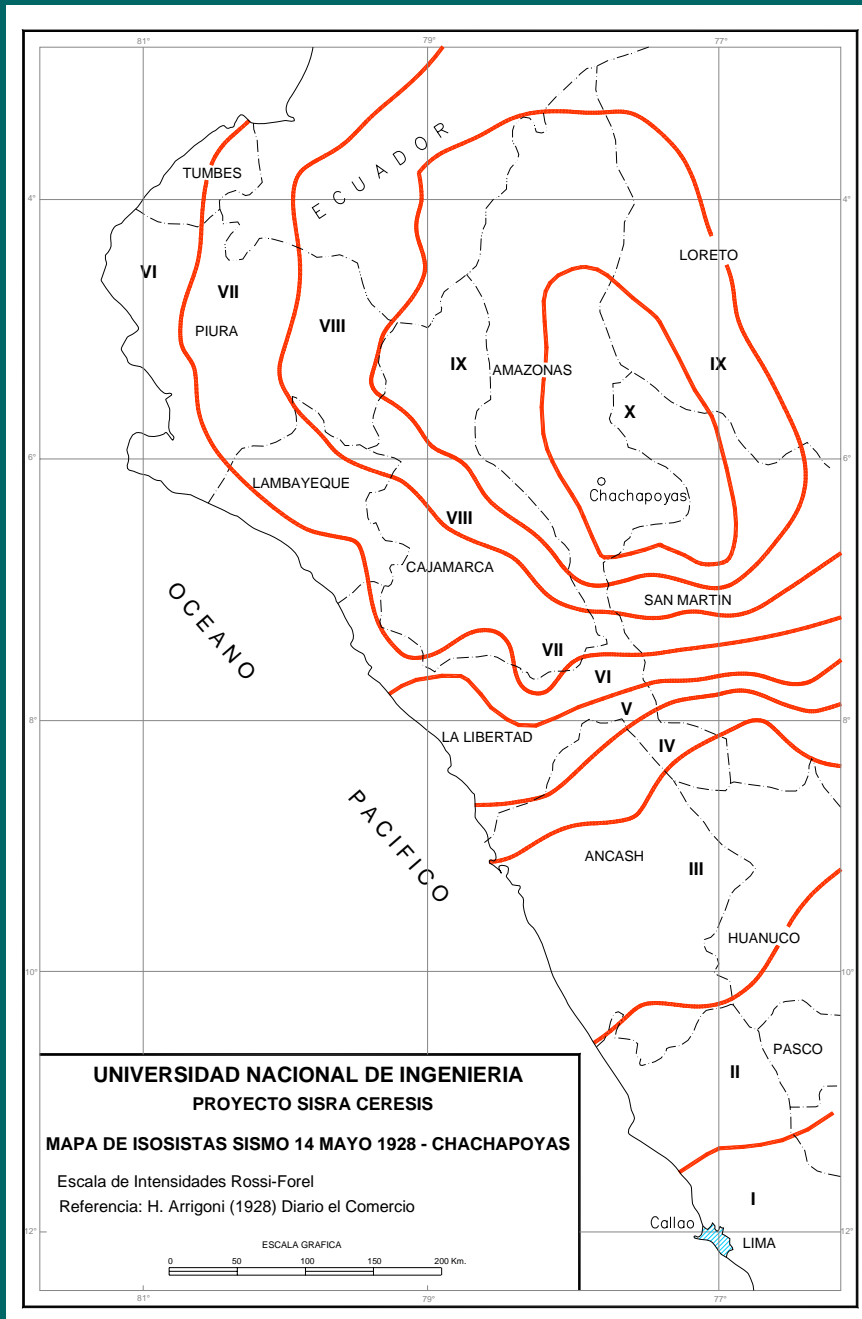




MAPAS ISOSISTAS SIGLO XX







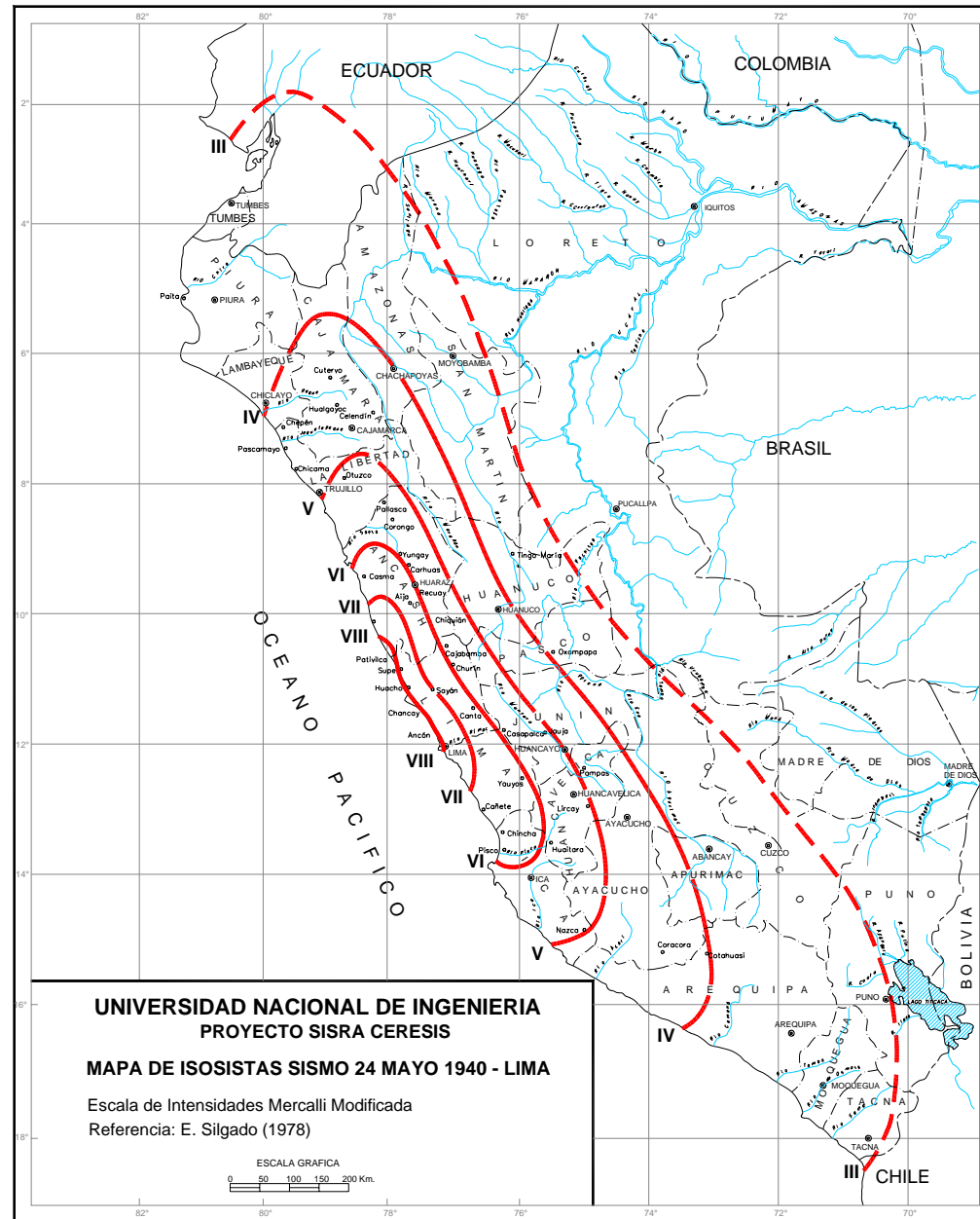
**UNIVERSIDAD NACIONAL DE INGENIERIA
PROYECTO SISRA CERESIS**

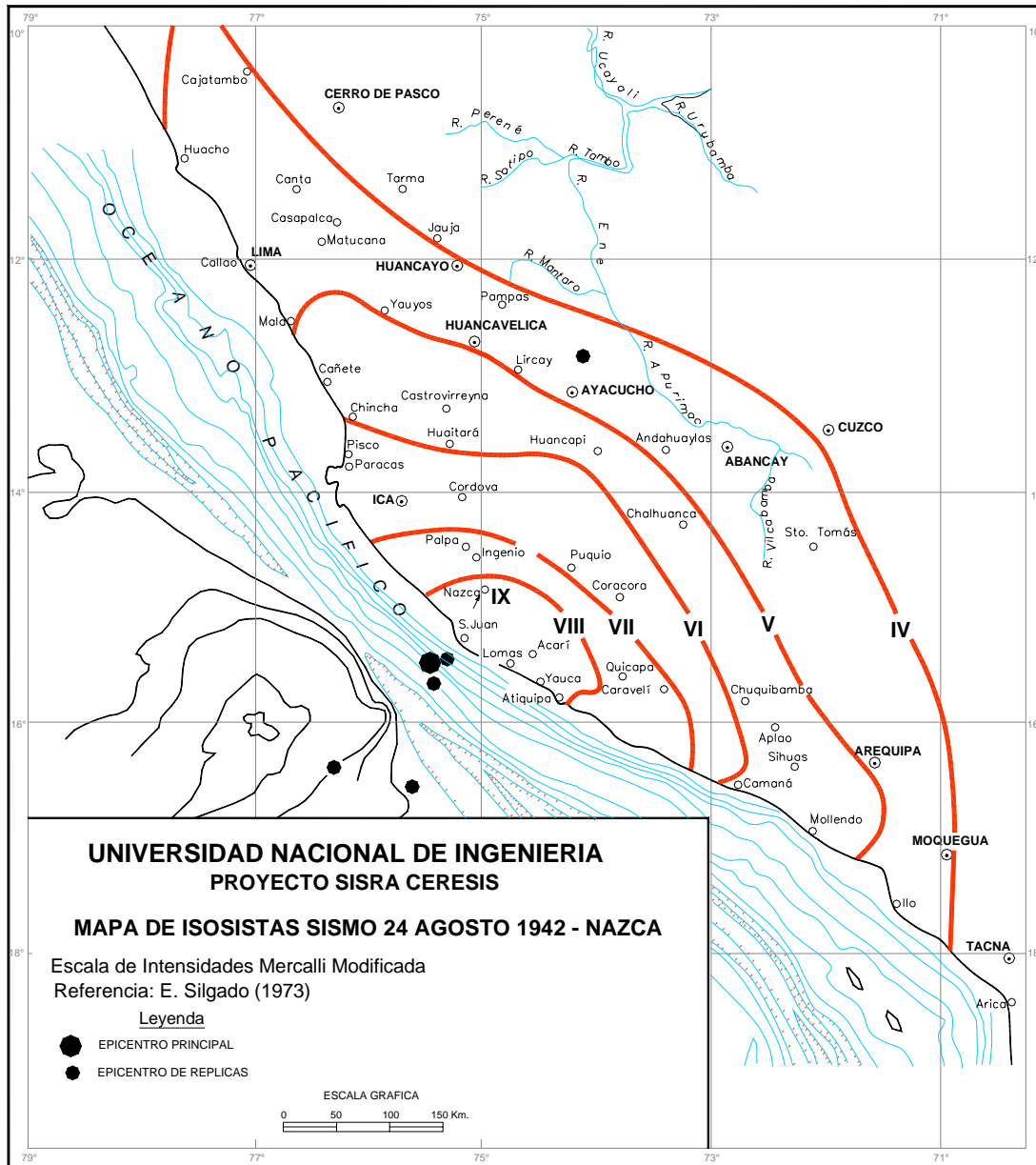
MAPA DE ISOSISTAS SISMO 14 MAYO 1928 - CHACHAPOYAS

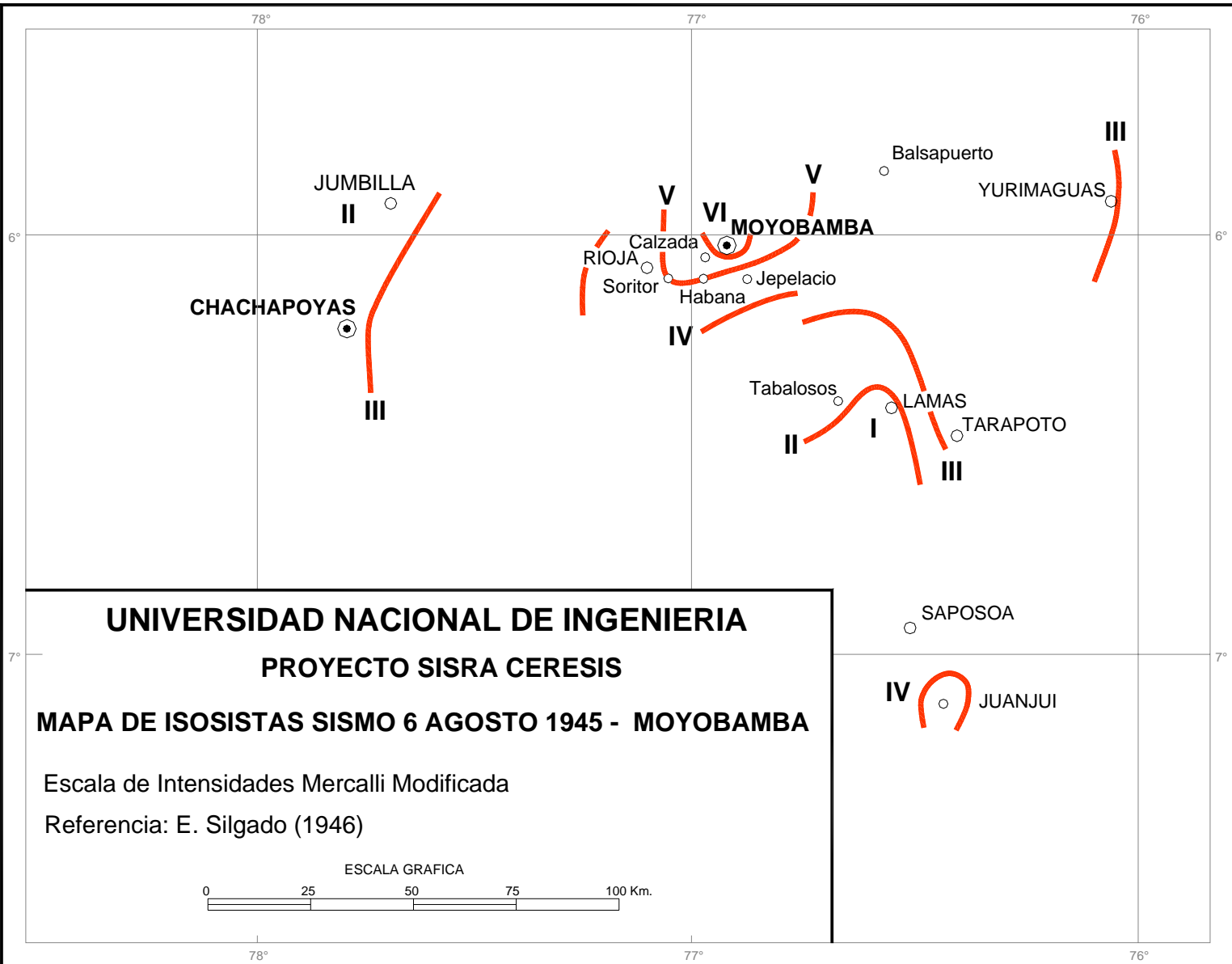
Escala de Intensidades Rossi-Forel

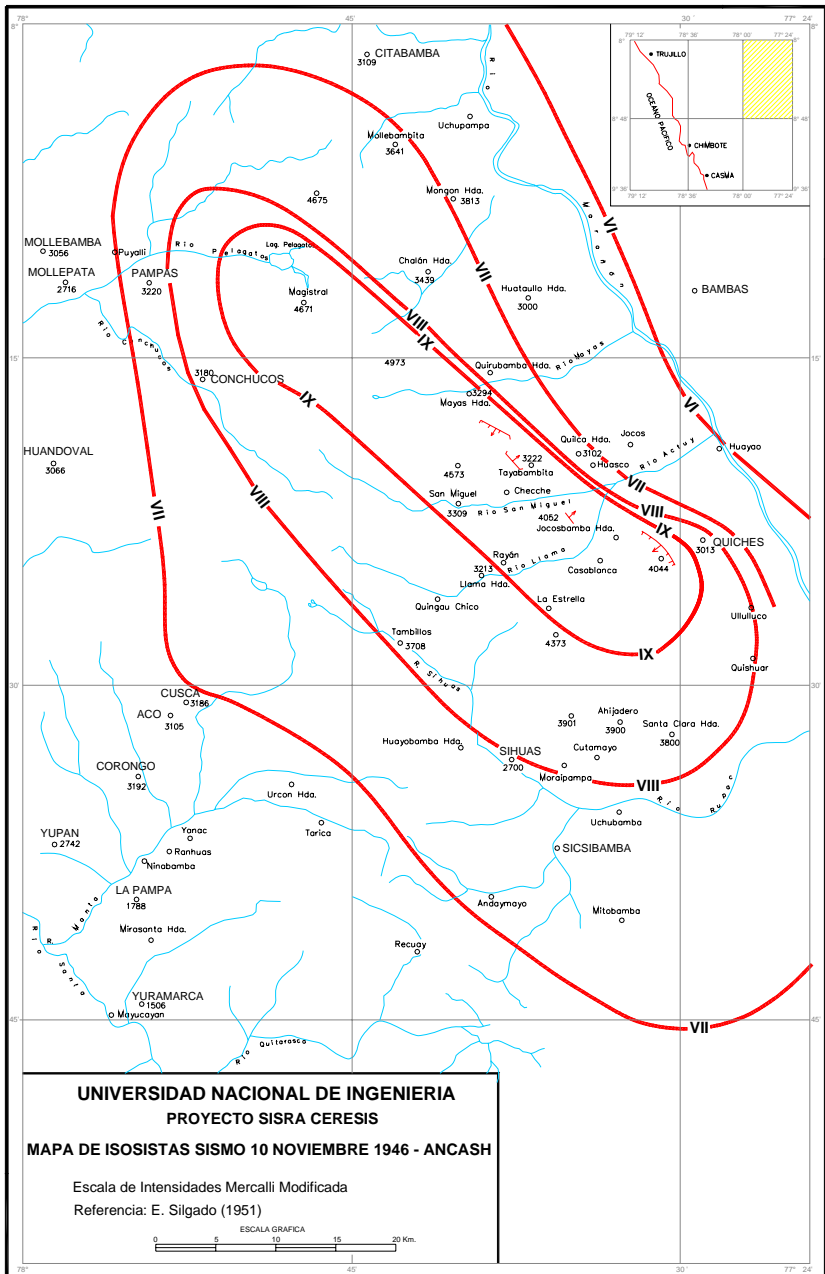
Referencia: H. Arrigoni (1928) Diario el Comercio

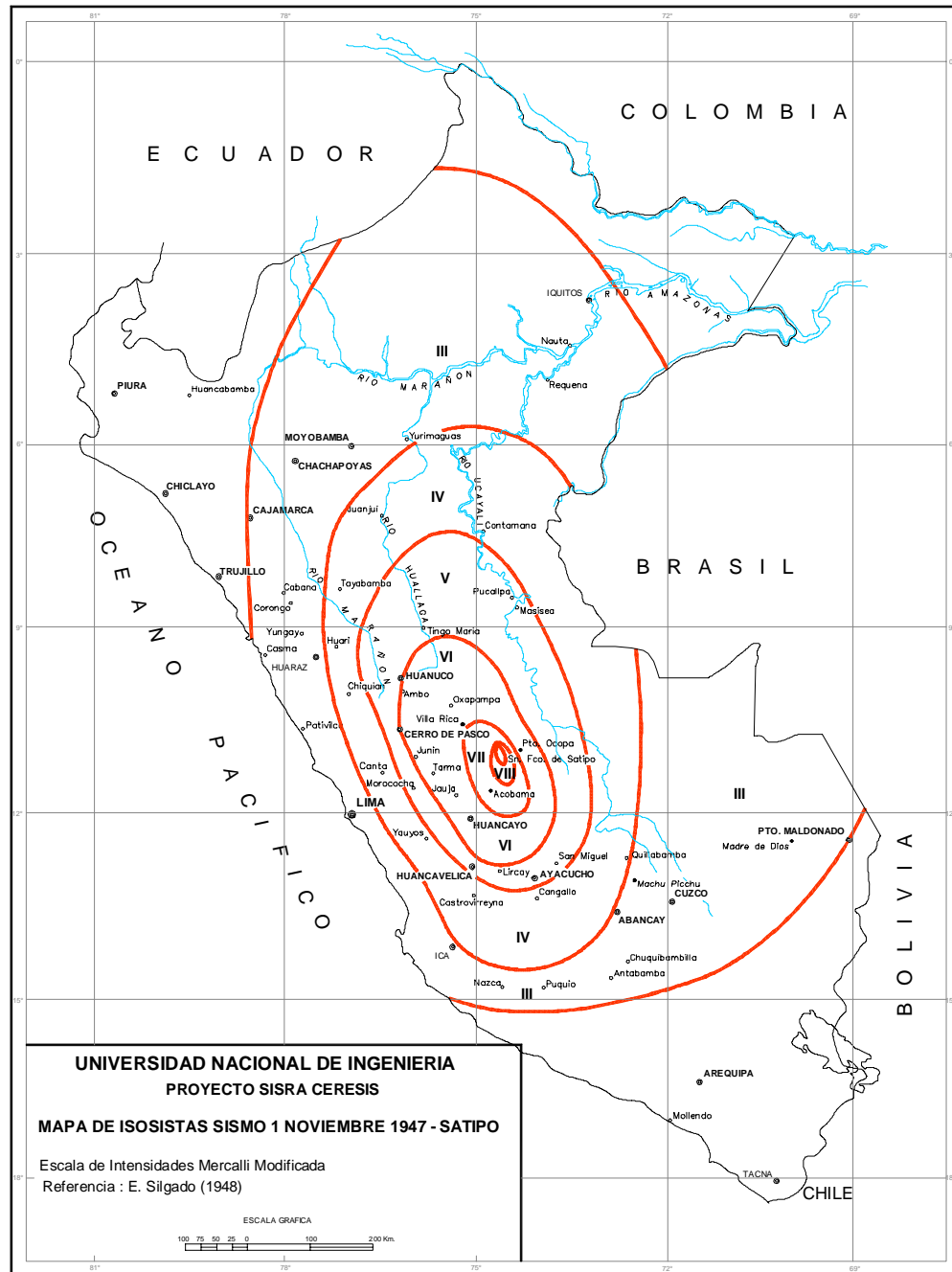
ESCALA GRAFICA
0 50 100 150 200 Km.

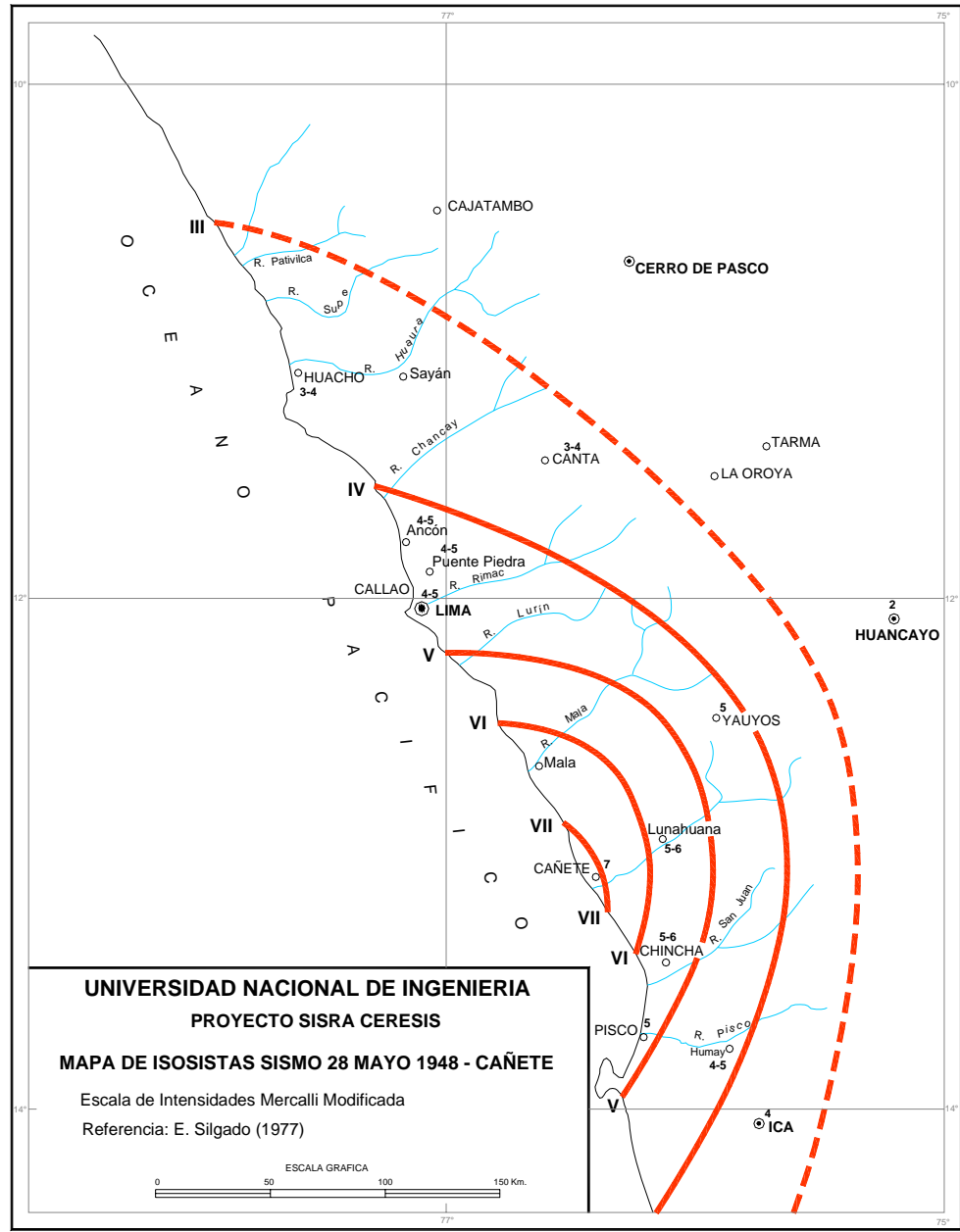


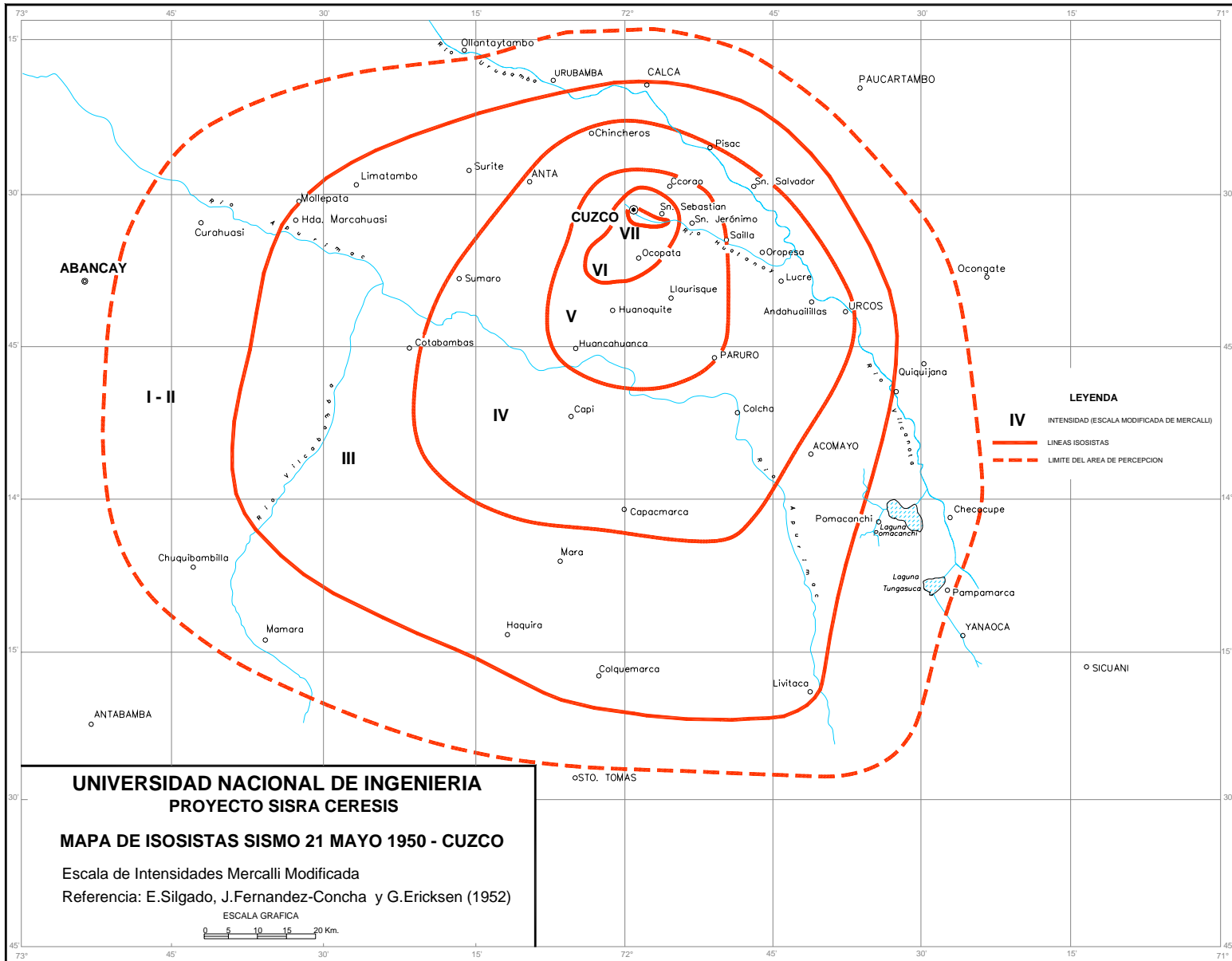


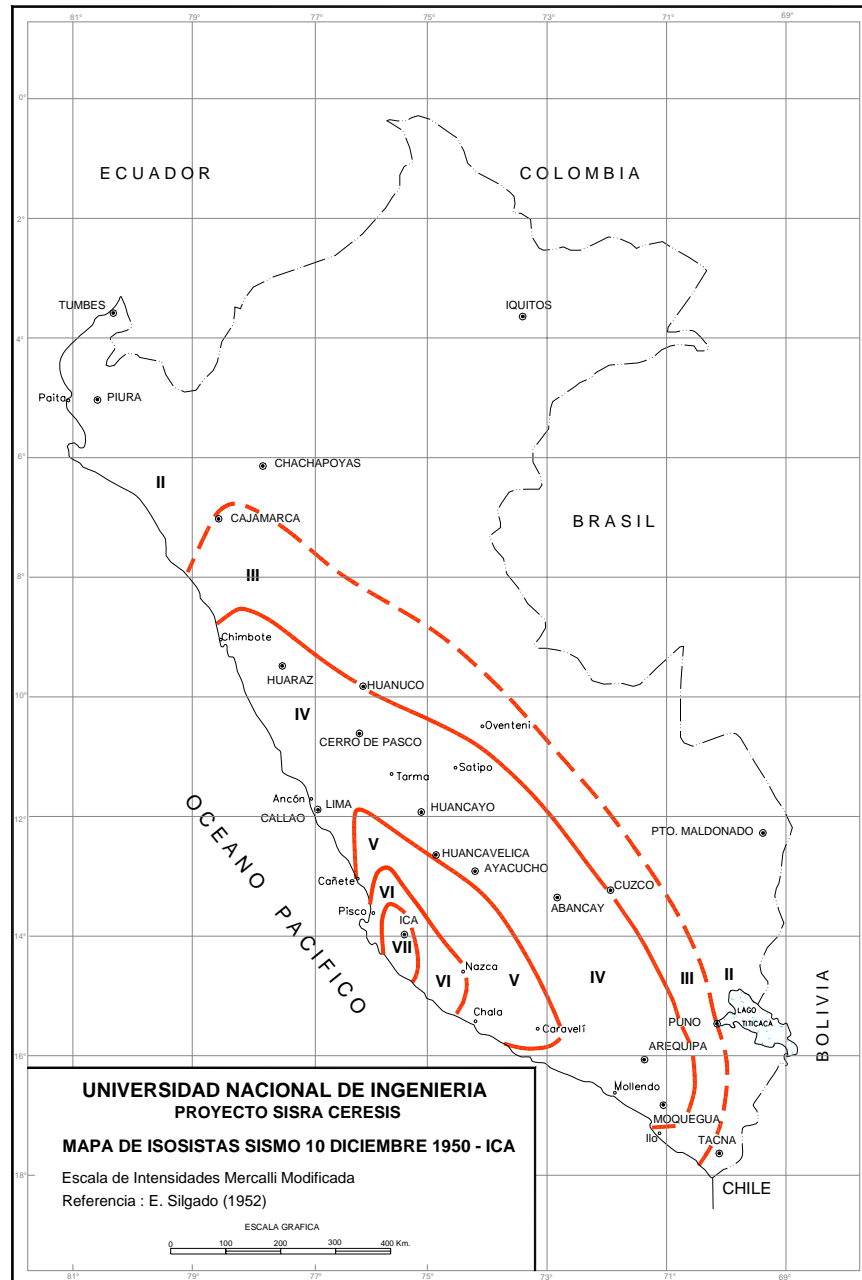


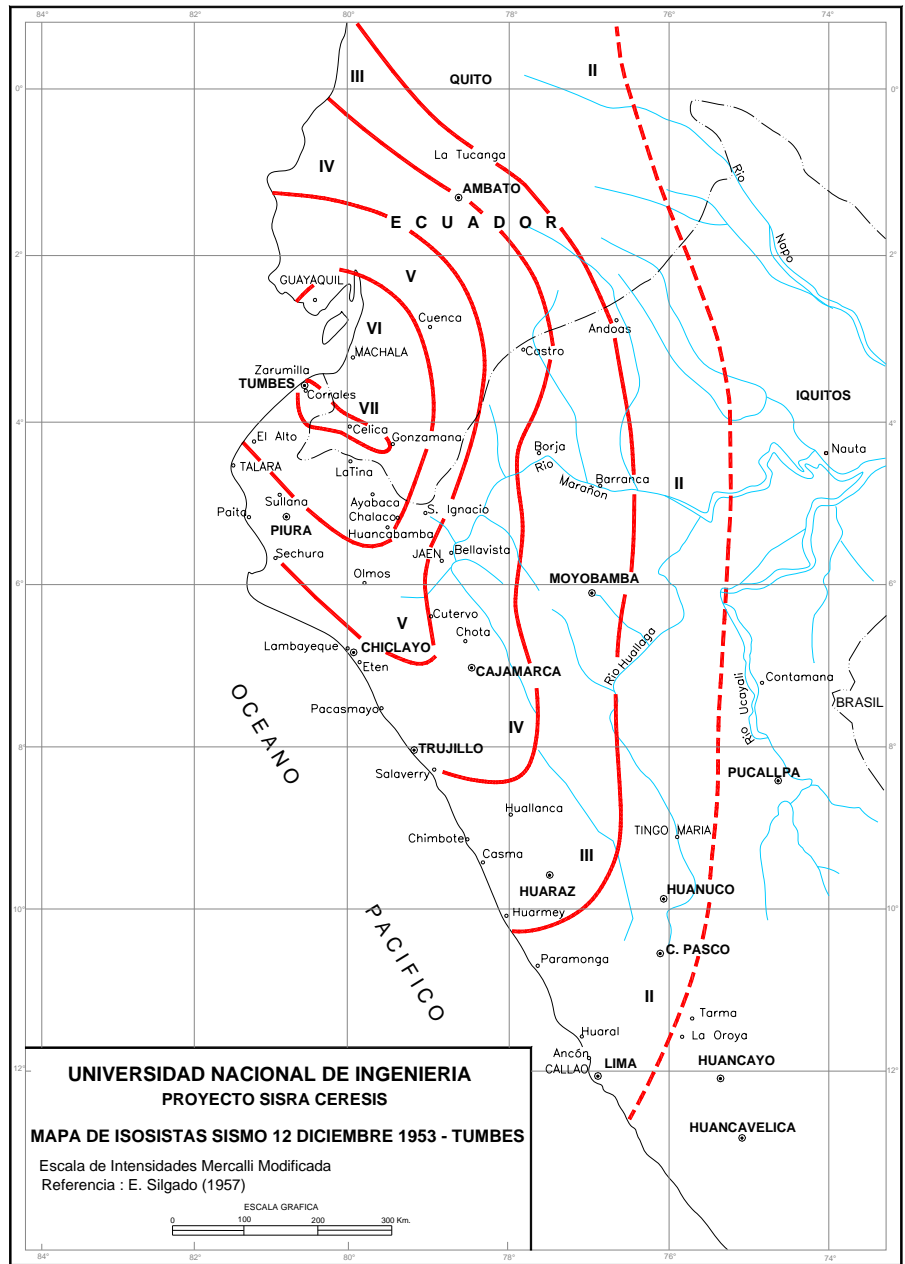


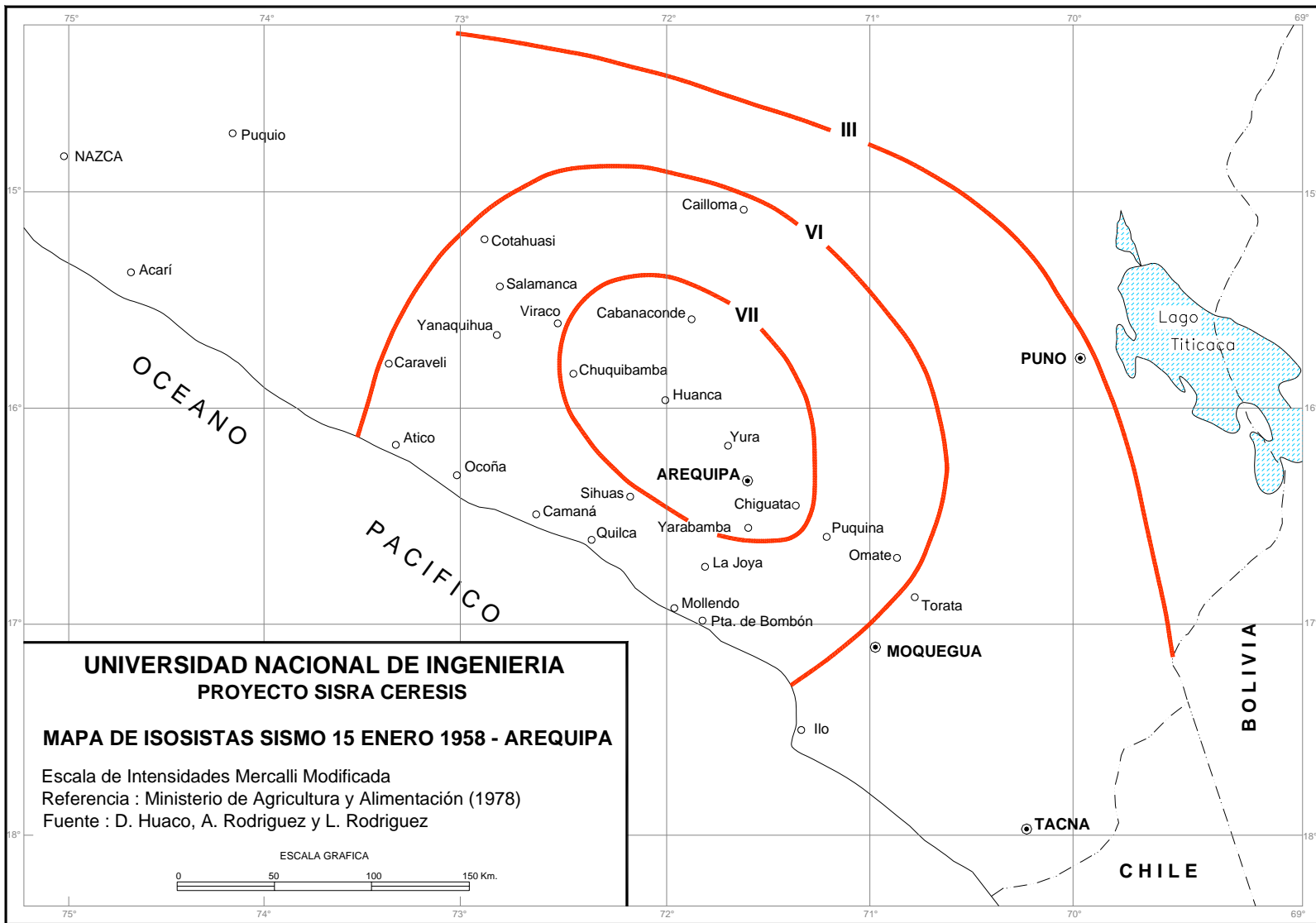










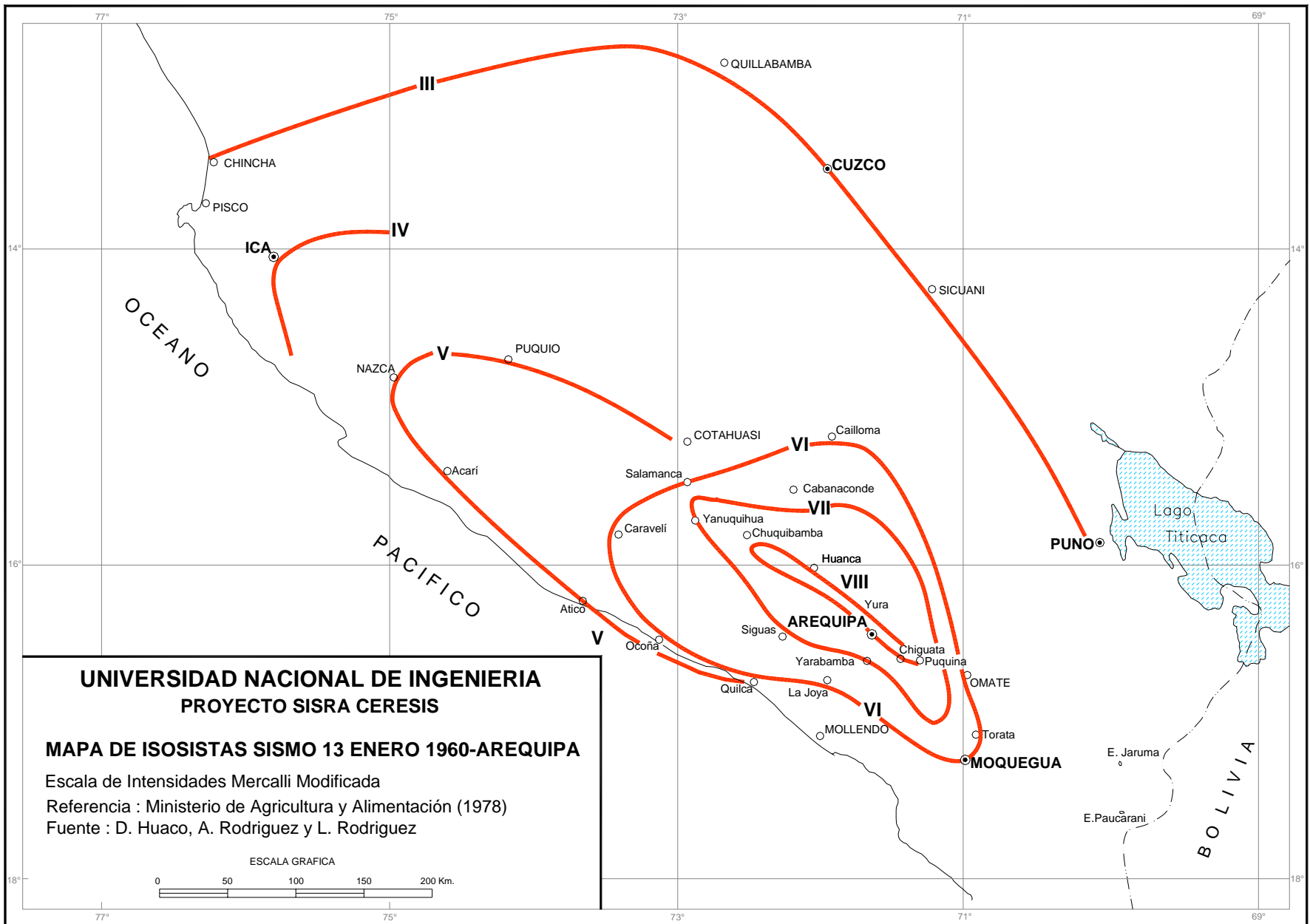


**UNIVERSIDAD NACIONAL DE INGENIERIA
PROYECTO SISRA CERESIS**

MAPA DE ISOSISTAS SISMO 15 ENERO 1958 - AREQUIPA

Escala de Intensidades Mercalli Modificada
 Referencia : Ministerio de Agricultura y Alimentación (1978)
 Fuente : D. Huaco, A. Rodriguez y L. Rodriguez





**UNIVERSIDAD NACIONAL DE INGENIERIA
PROYECTO SISRA CERESIS**

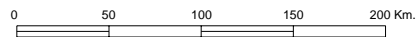
MAPA DE ISOSISTAS SISMO 13 ENERO 1960-AREQUIPA

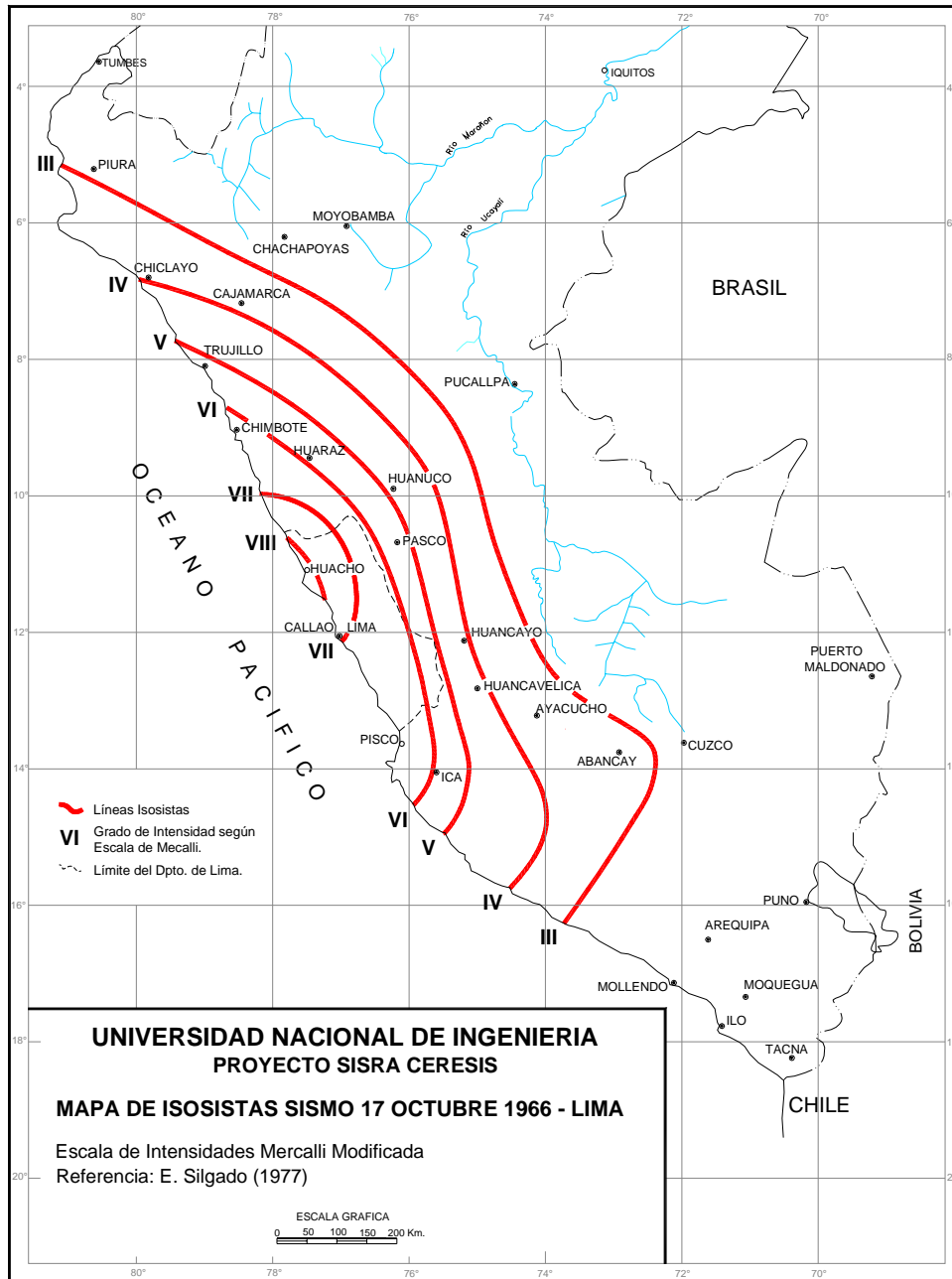
Escala de Intensidades Mercalli Modificada

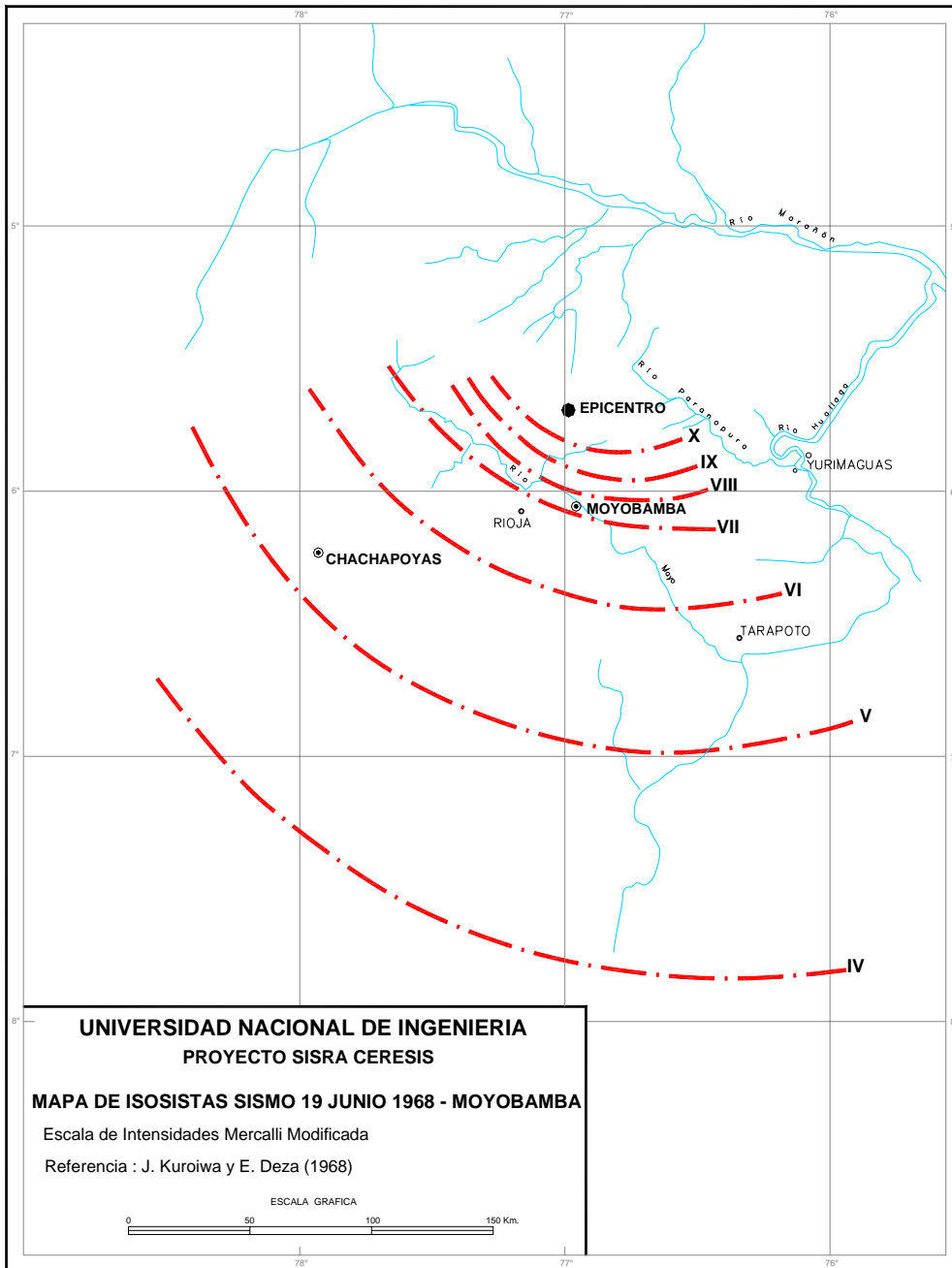
Referencia : Ministerio de Agricultura y Alimentación (1978)

Fuente : D. Huaco, A. Rodriguez y L. Rodriguez

ESCALA GRAFICA





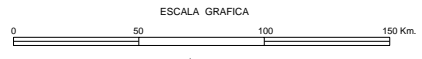


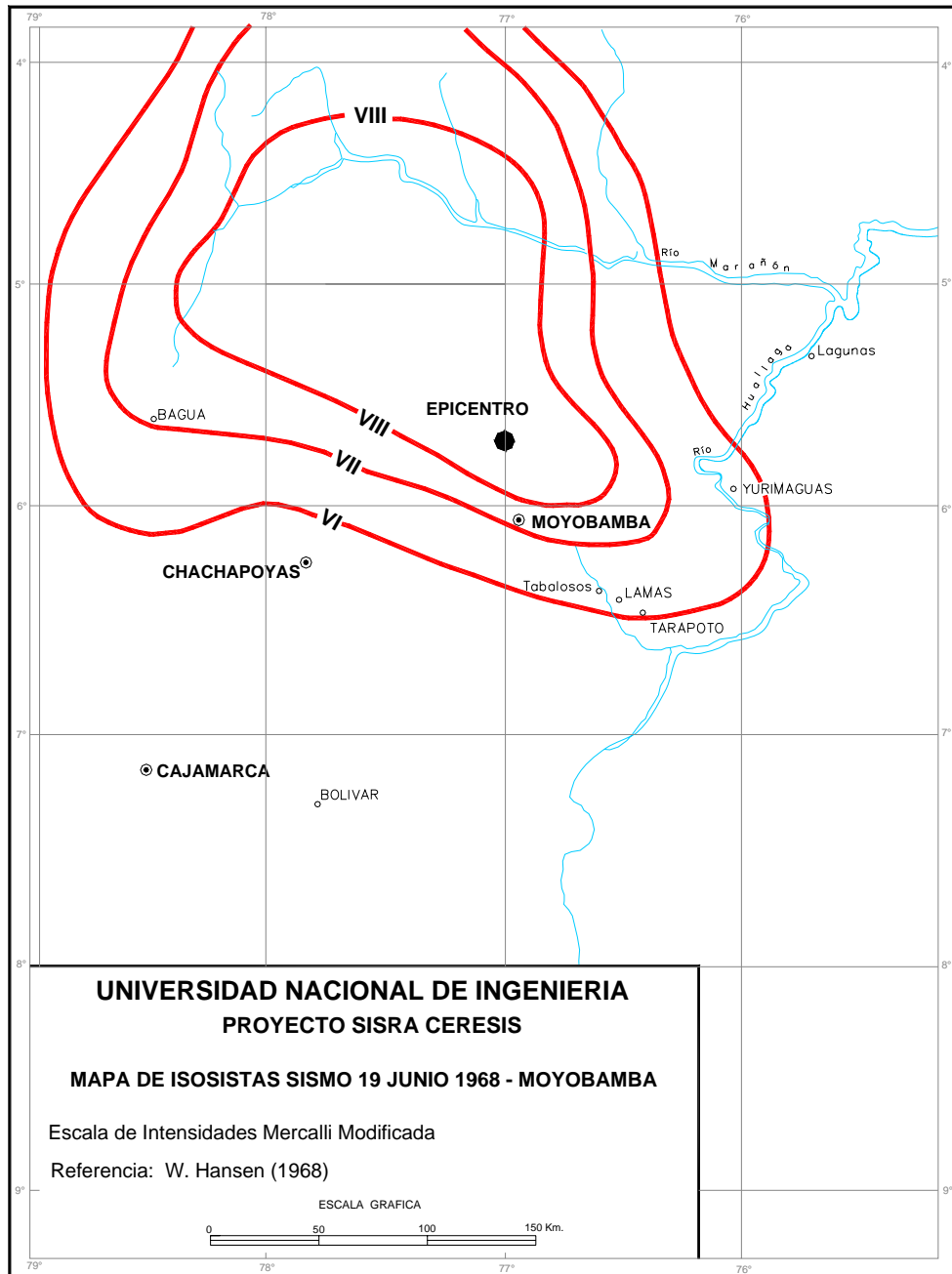
**UNIVERSIDAD NACIONAL DE INGENIERIA
PROYECTO SISRA CERESIS**

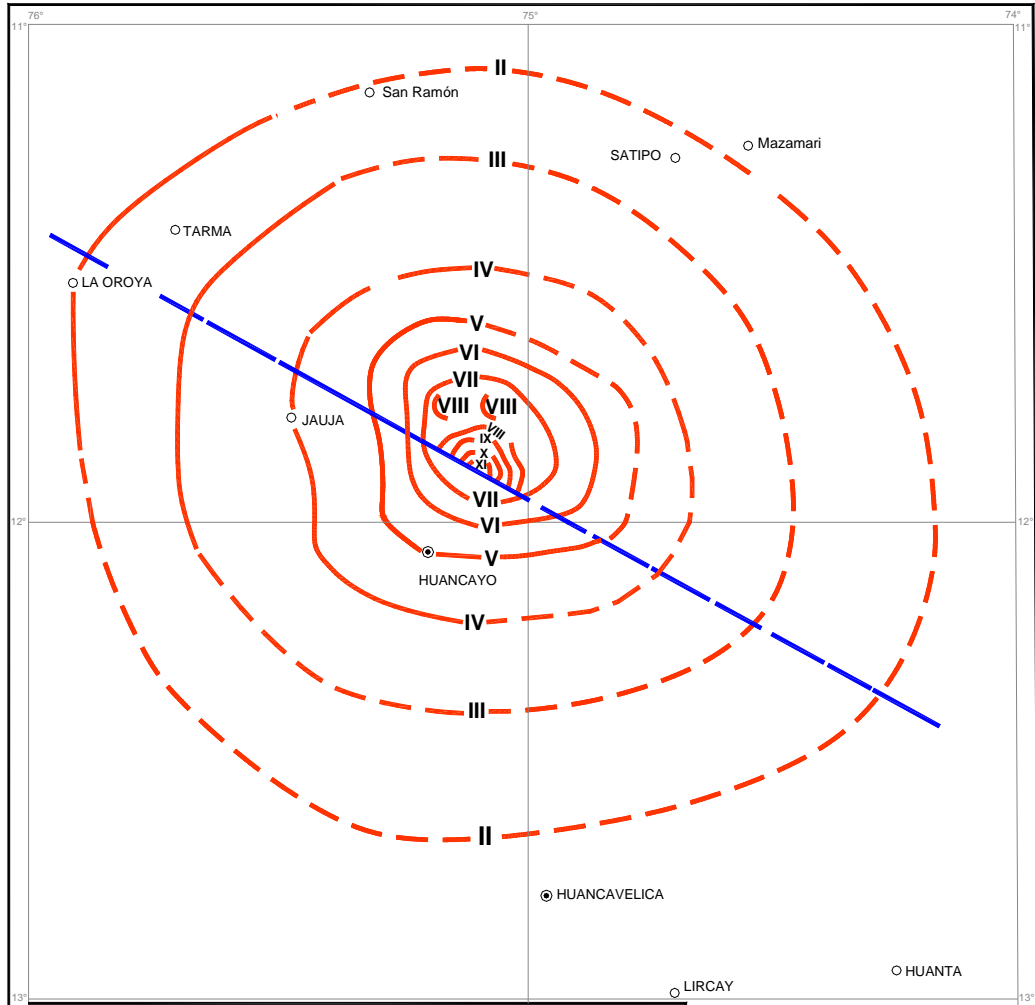
MAPA DE ISOSISTAS SISMO 19 JUNIO 1968 - MOYOBAMBA

Escala de Intensidades Mercalli Modificada

Referencia : J. Kuroiwa y E. Deza (1968)







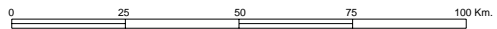
**UNIVERSIDAD NACIONAL DE INGENIERIA
PROYECTO SISRA CERESIS**

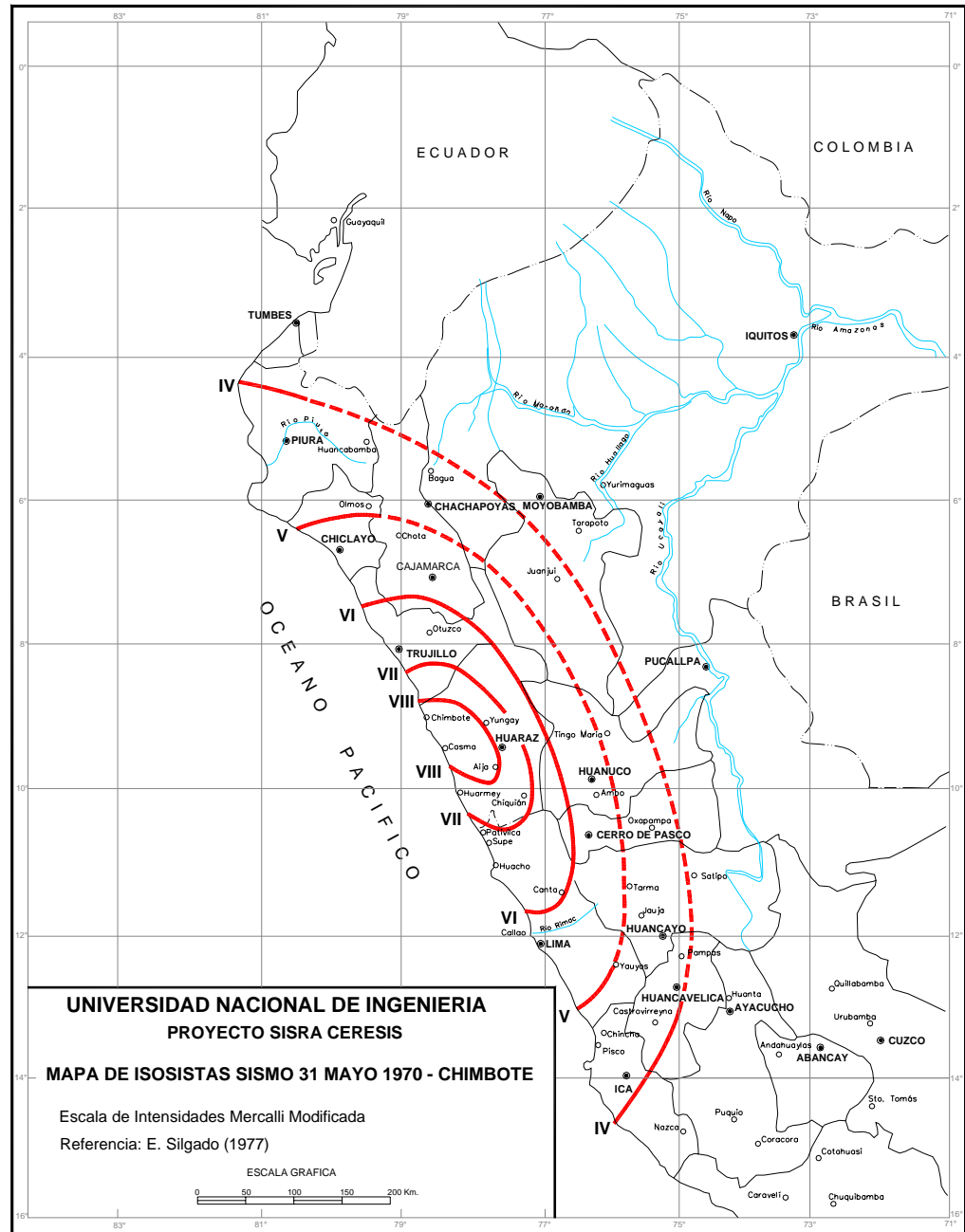
MAPA DE ISOSISTAS SISMO 1 OCTUBRE 1969 - PARIAHUANCA

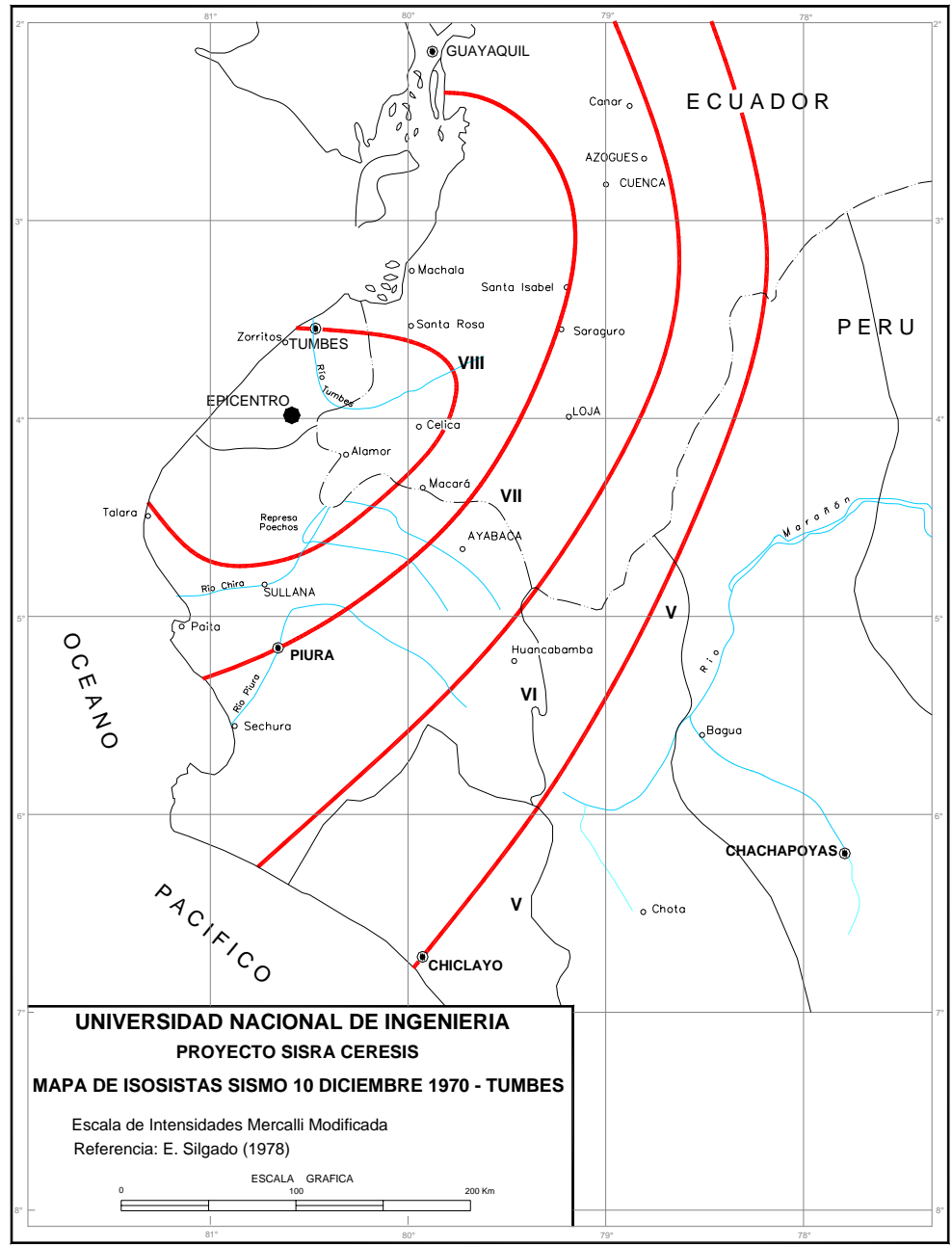
Escala de Intensidades Mercalli Modificada

Referencia : E. Deza (1971)

ESCALA GRAFICA

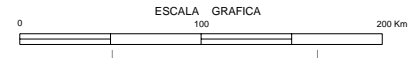


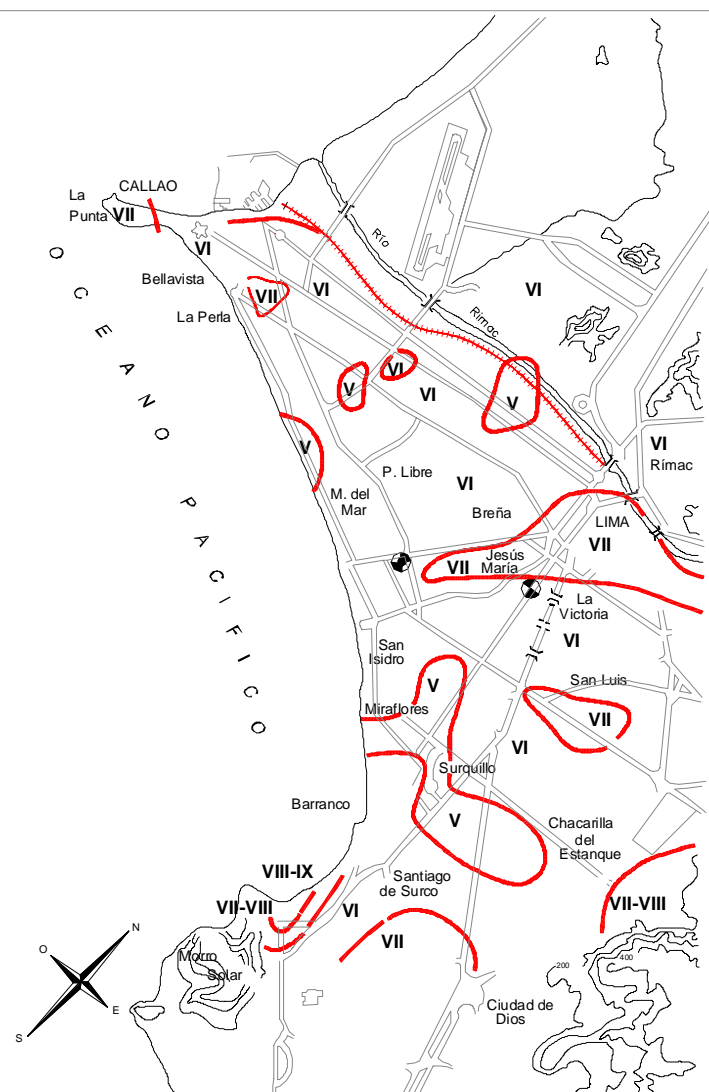




UNIVERSIDAD NACIONAL DE INGENIERIA
PROYECTO SISRA CERESIS
MAPA DE ISOSISTAS SISMO 10 DICIEMBRE 1970 - TUMBES

Escala de Intensidades Mercalli Modificada
 Referencia: E. Silgado (1978)









**UNIVERSIDAD NACIONAL DE INGENIERIA
PROYECTO SISRA CERESIS**

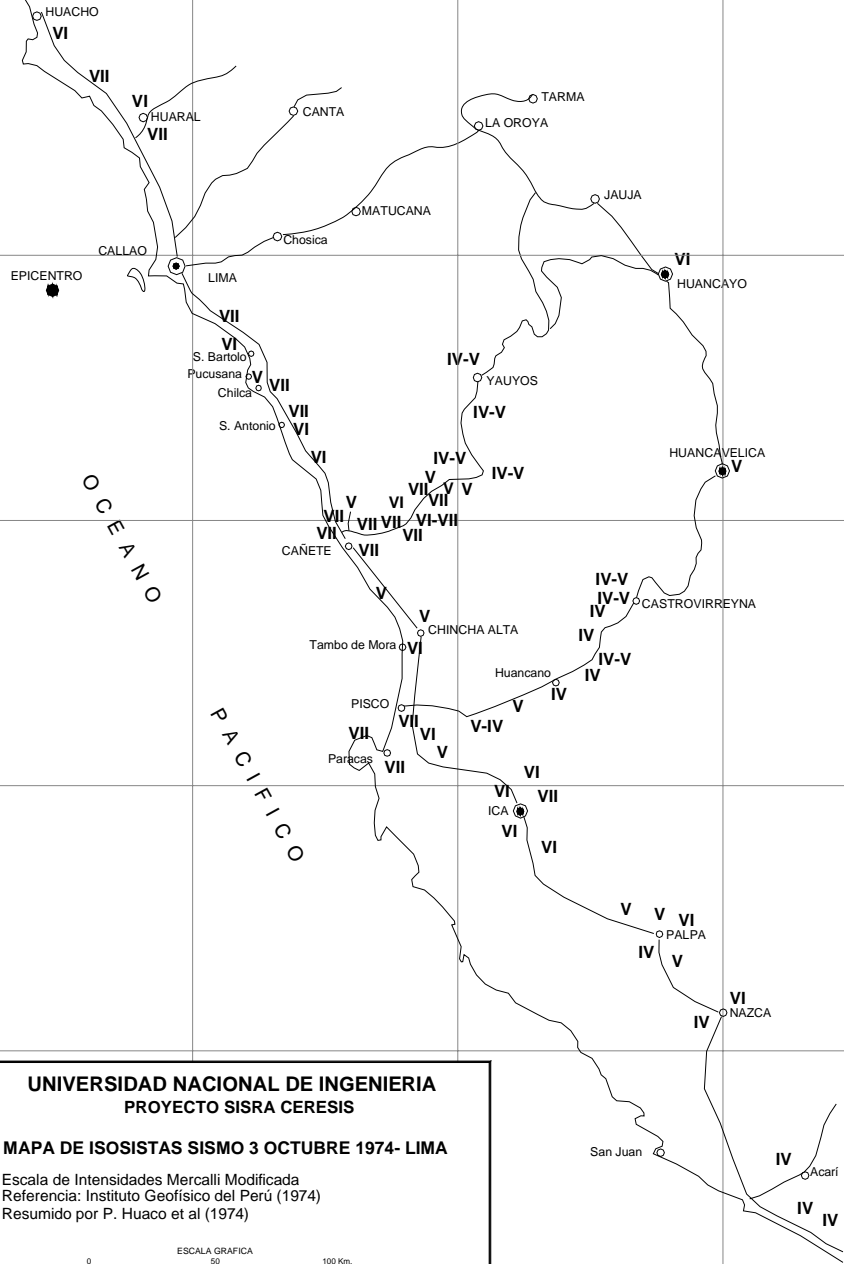
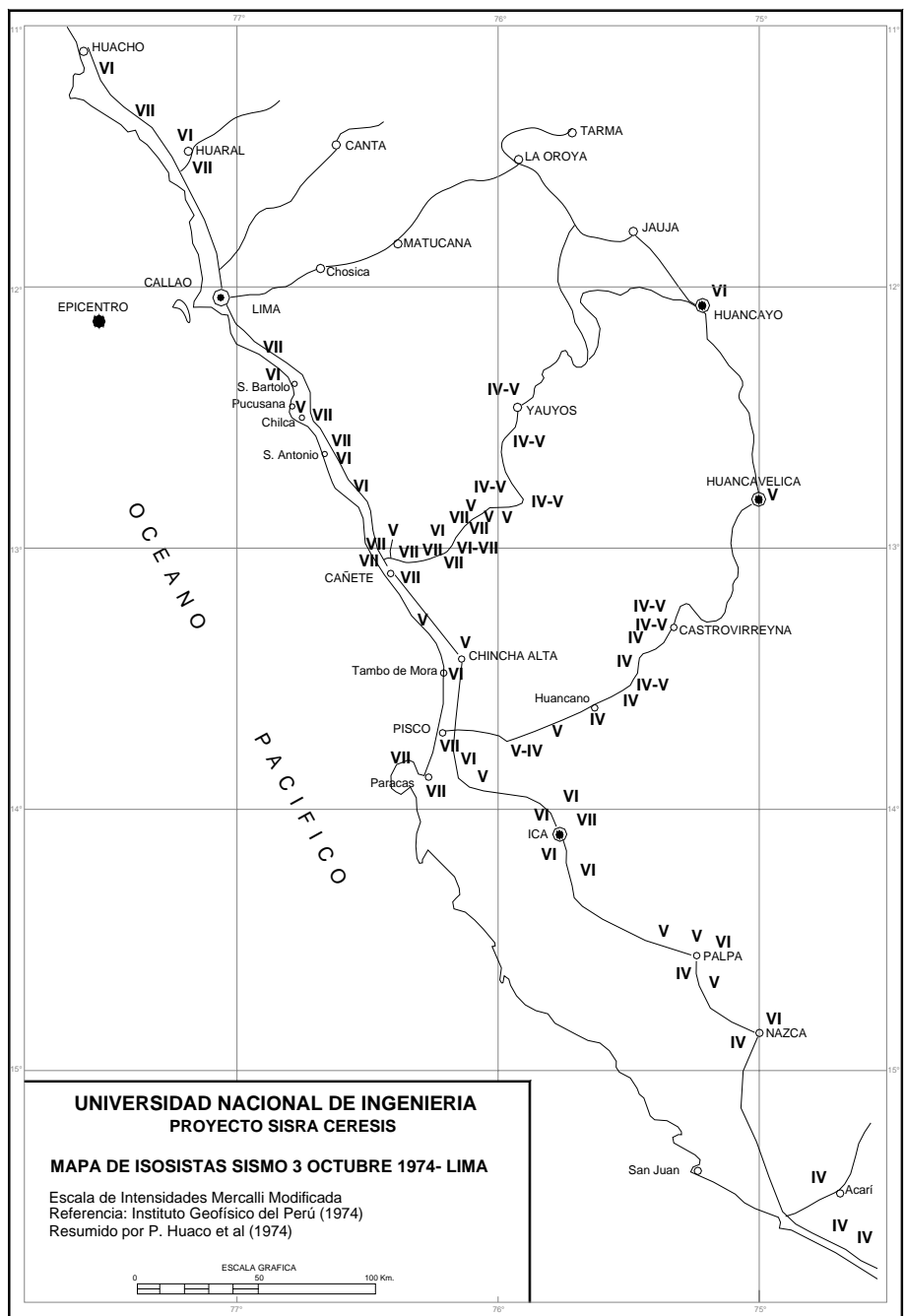
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LIMA METROPOLITANA**

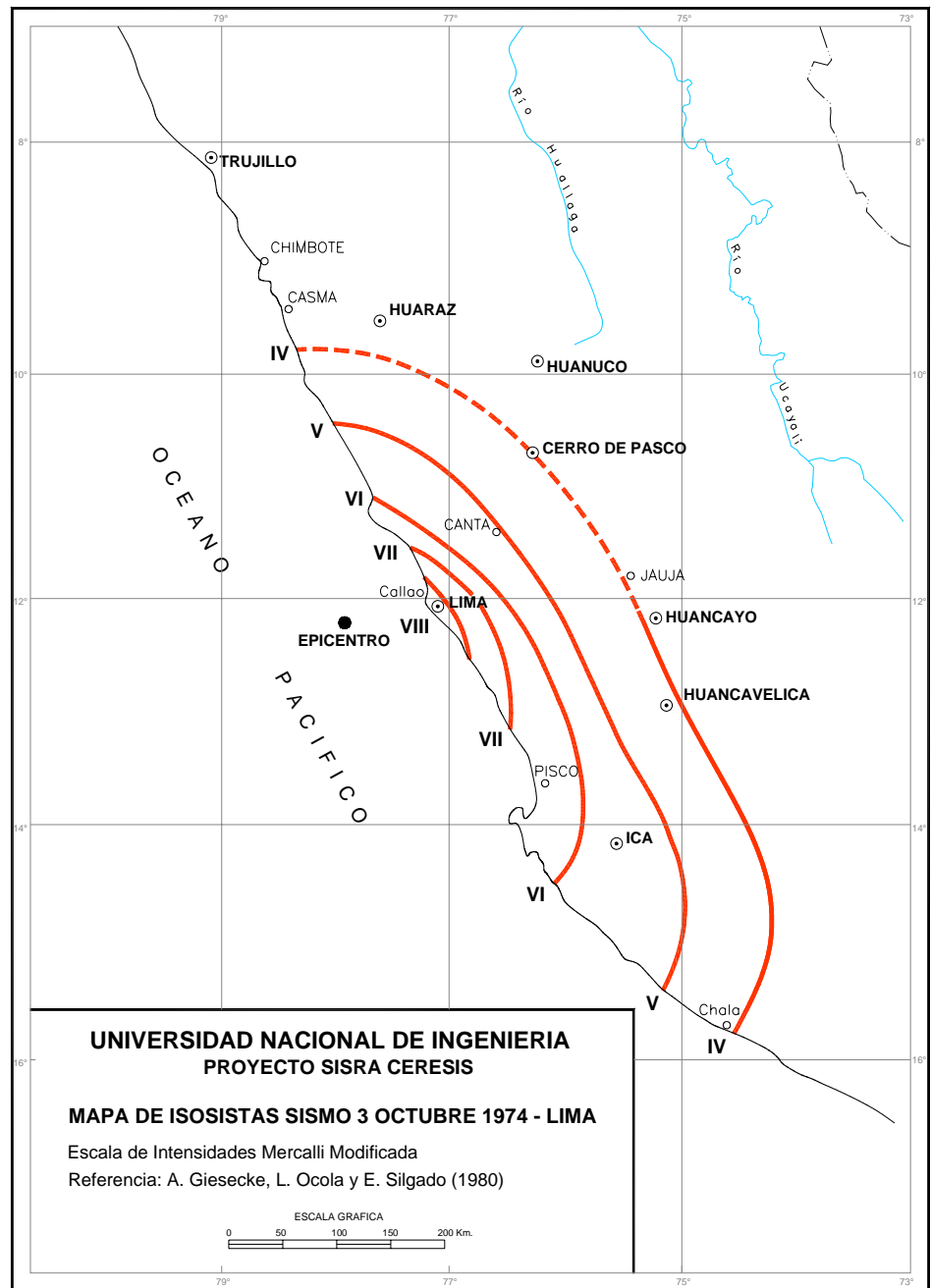
Escala de Intensidades Mercalli Modificada
Referencia : Instituto Geofísico del Perú (1974)

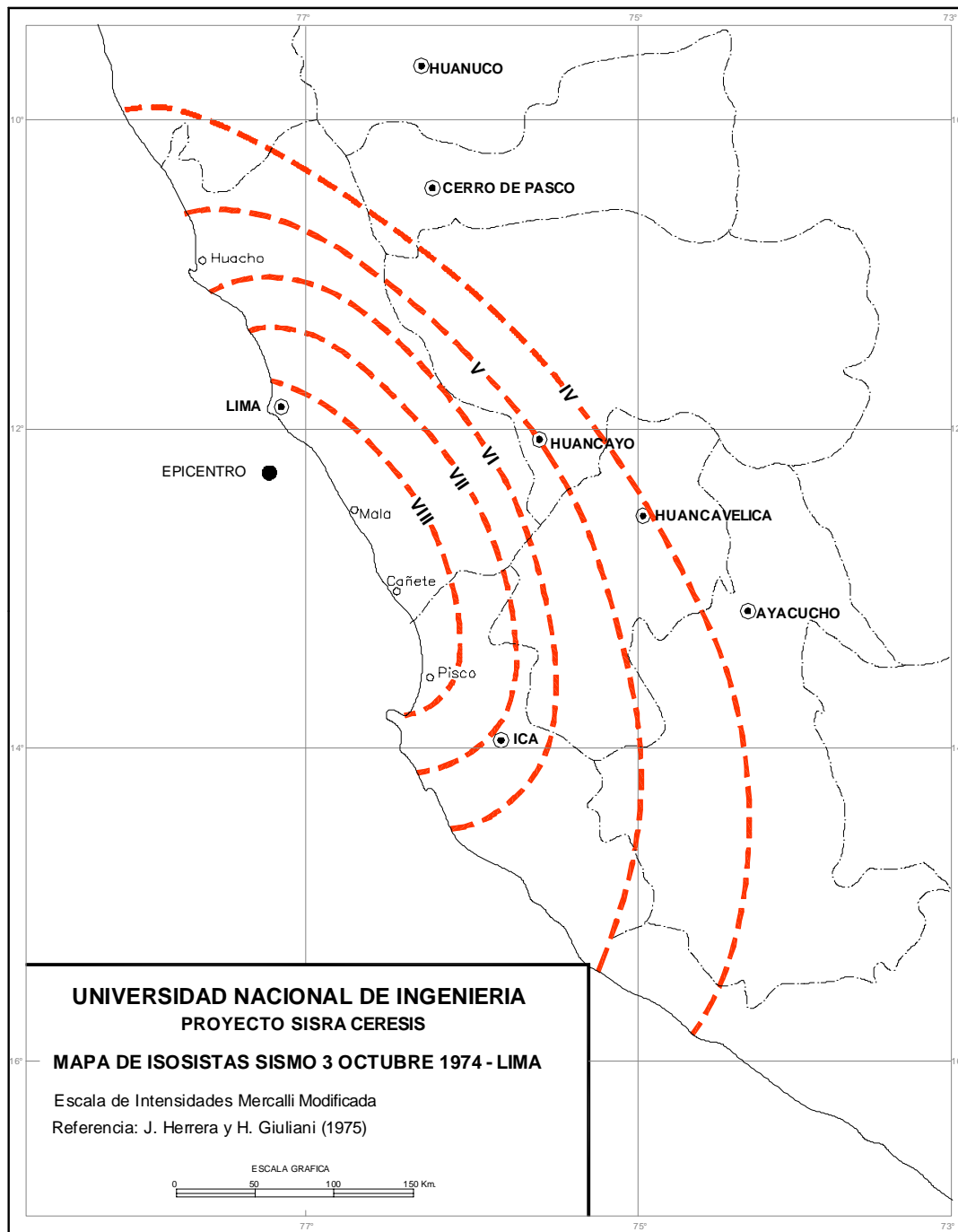
Leyenda

-  Acelerómetro
-  Sismógrafo
-  Límite área, aprox. por observaciones
-  Límite área, Inferidos











ICA

AYACUCHO

APURIMAC

CUSCO

COTAHUASI

PUNO

Lomas

Huanuhuanu

Tocota

Chala

Viraco

5+

5+

Machahuay

6+

6+

Tipan

6+

6+

5

CHIVAY

CARAVELI

6+

Pampacolca

6+

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6+

CHUQUIBAMBA

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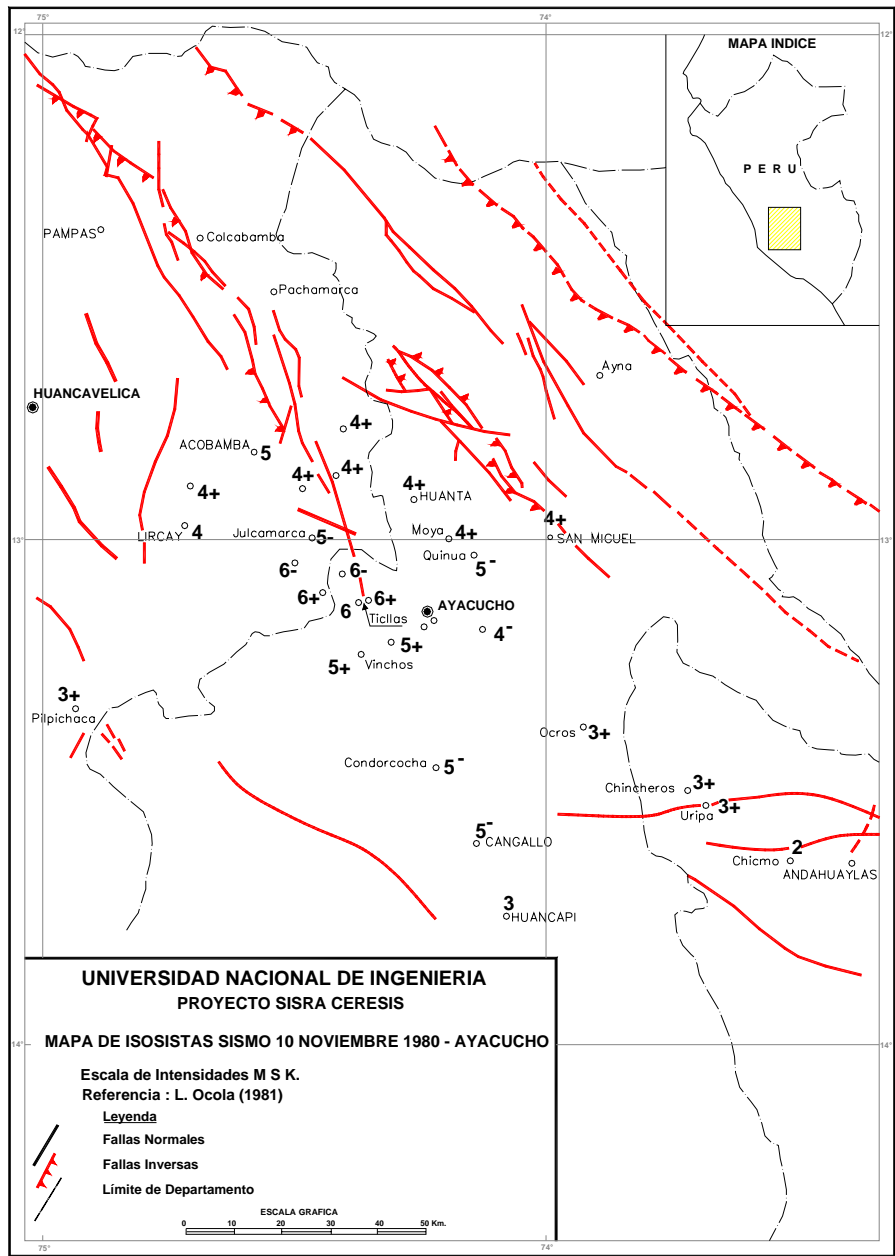
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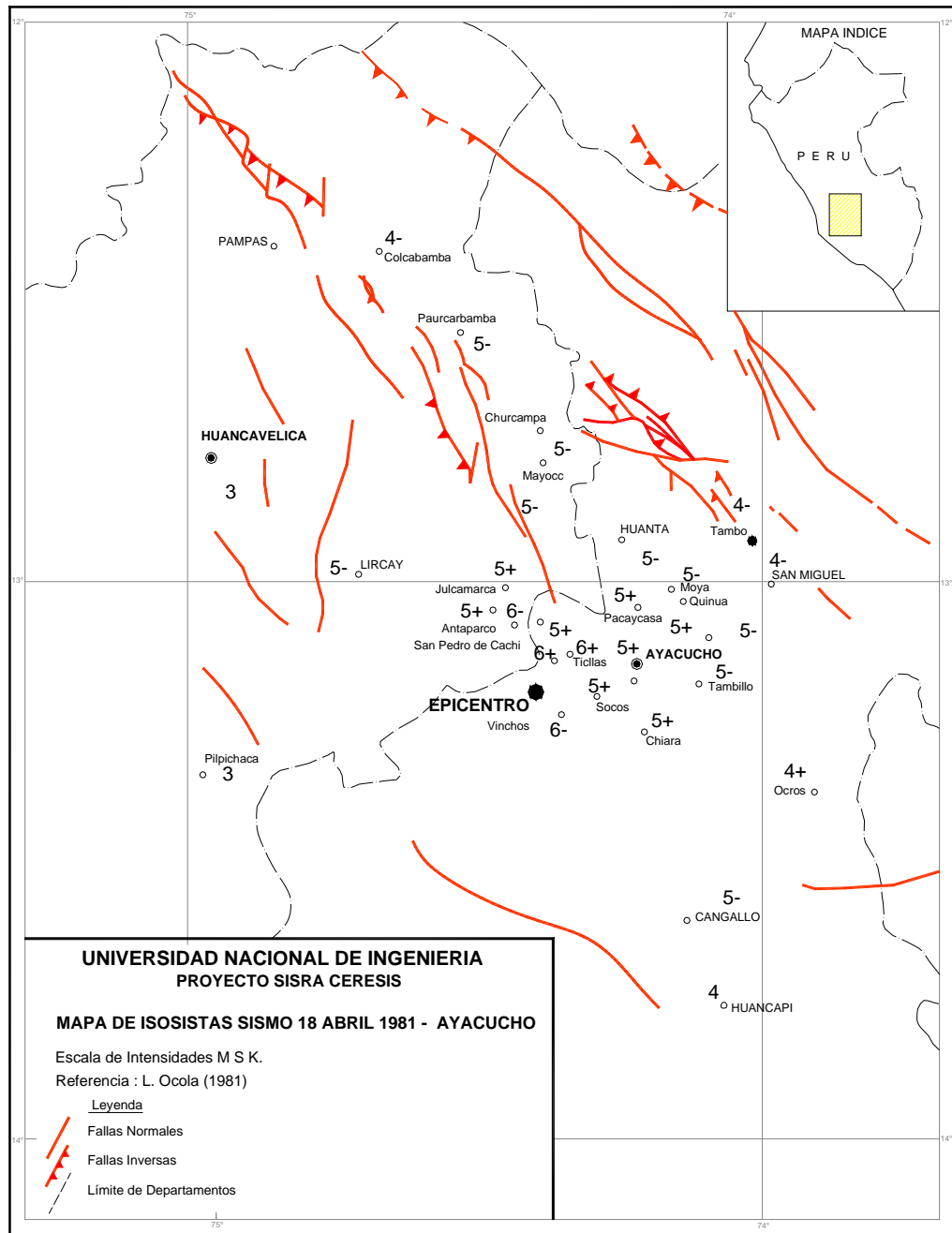
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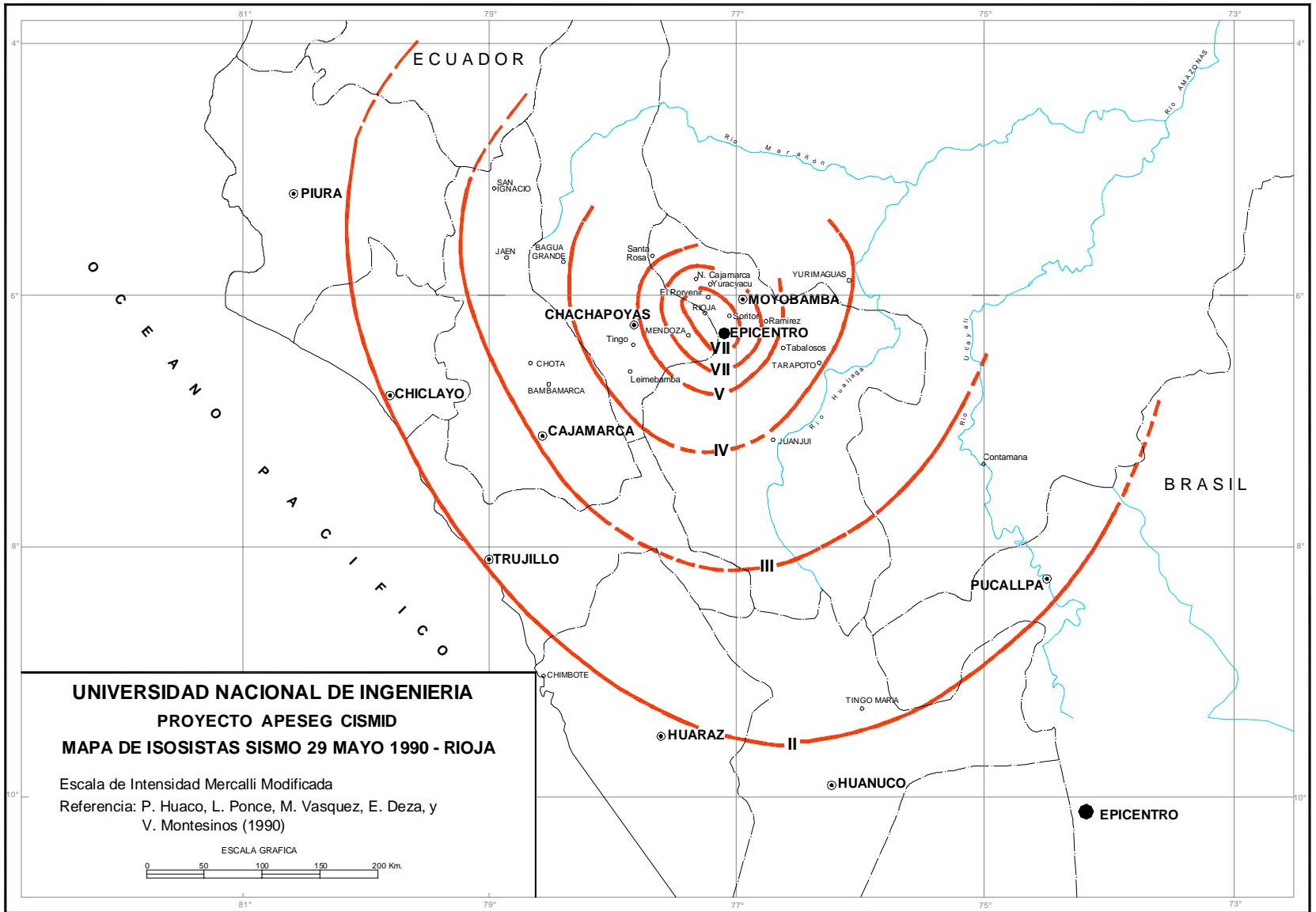
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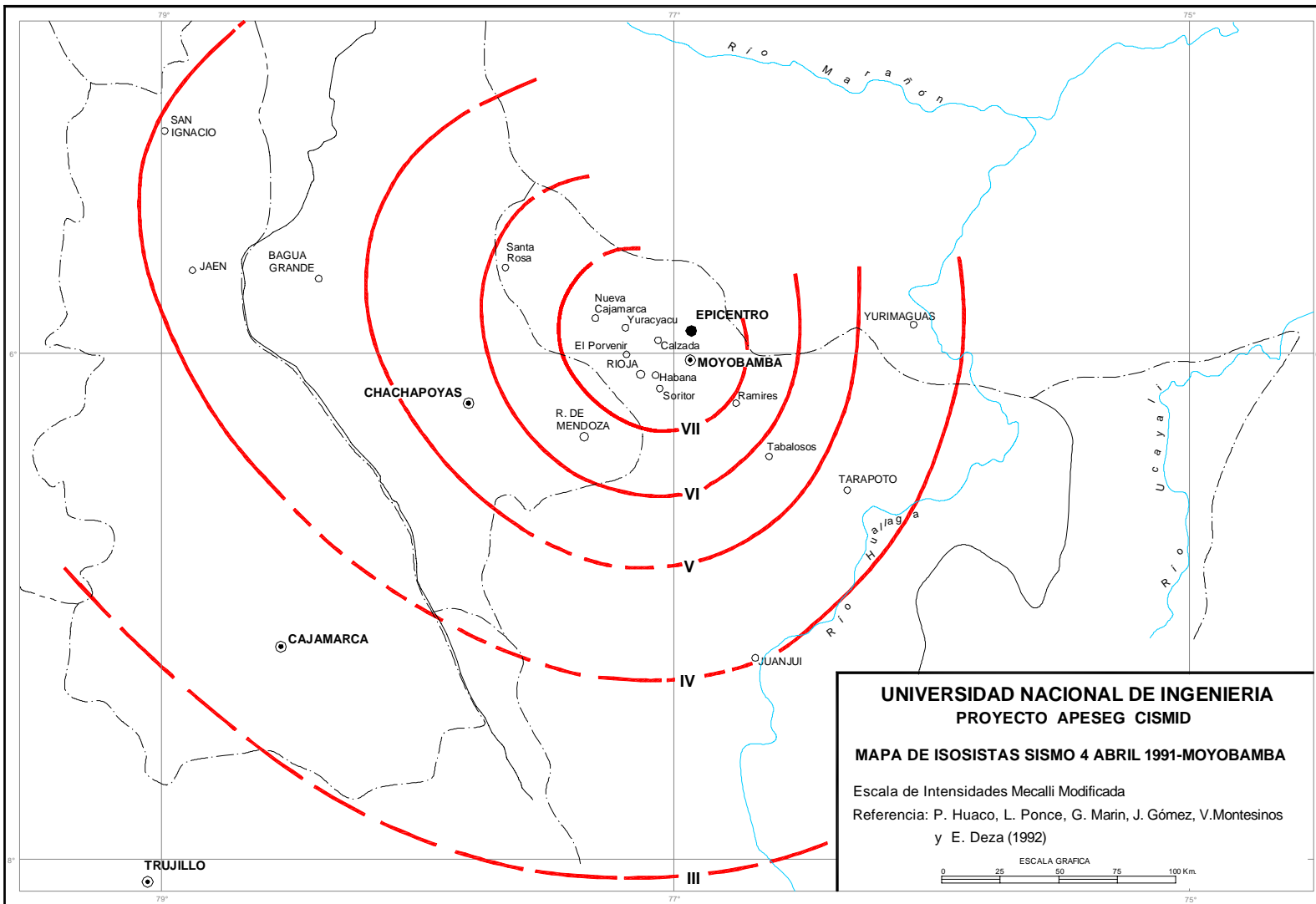
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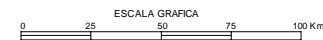


**UNIVERSIDAD NACIONAL DE INGENIERIA
PROYECTO APESEG CISMID**

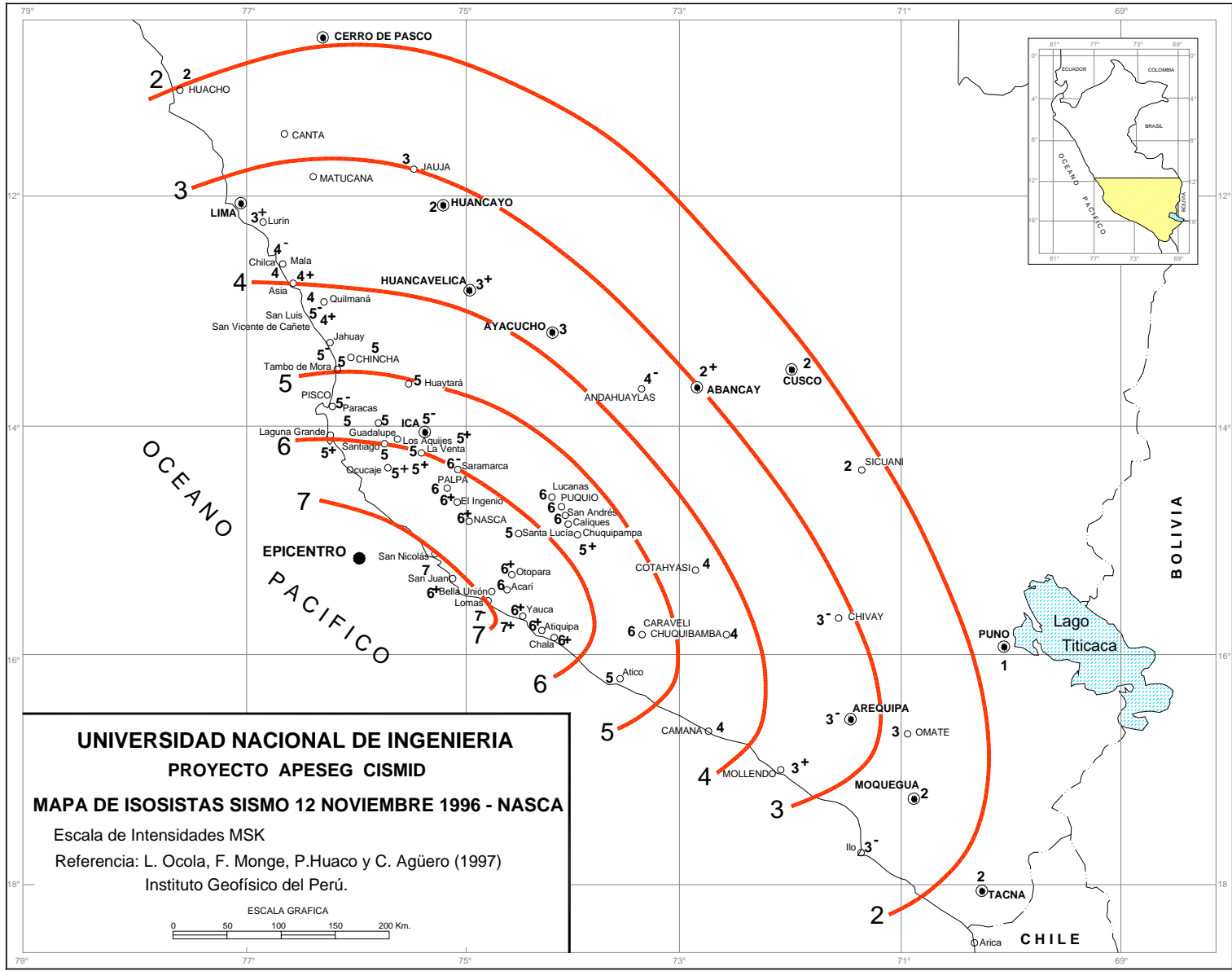
MAPA DE ISOSISTAS SISMO 4 ABRIL 1991-MOYOBAMBA

Escala de Intensidades Mecalli Modificada

Referencia: P. Huaco, L. Ponce, G. Marin, J. Gómez, V. Montesinos
y E. Deza (1992)





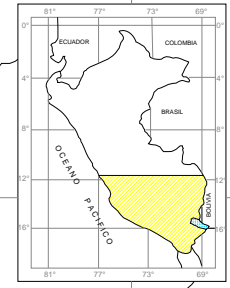


79° 77° 75° 73° 71° 69°

12° 14° 16° 18°

69° 71° 73° 75° 77° 79°

0° 2° 4° 6° 8° 10° 12° 14° 16° 18°



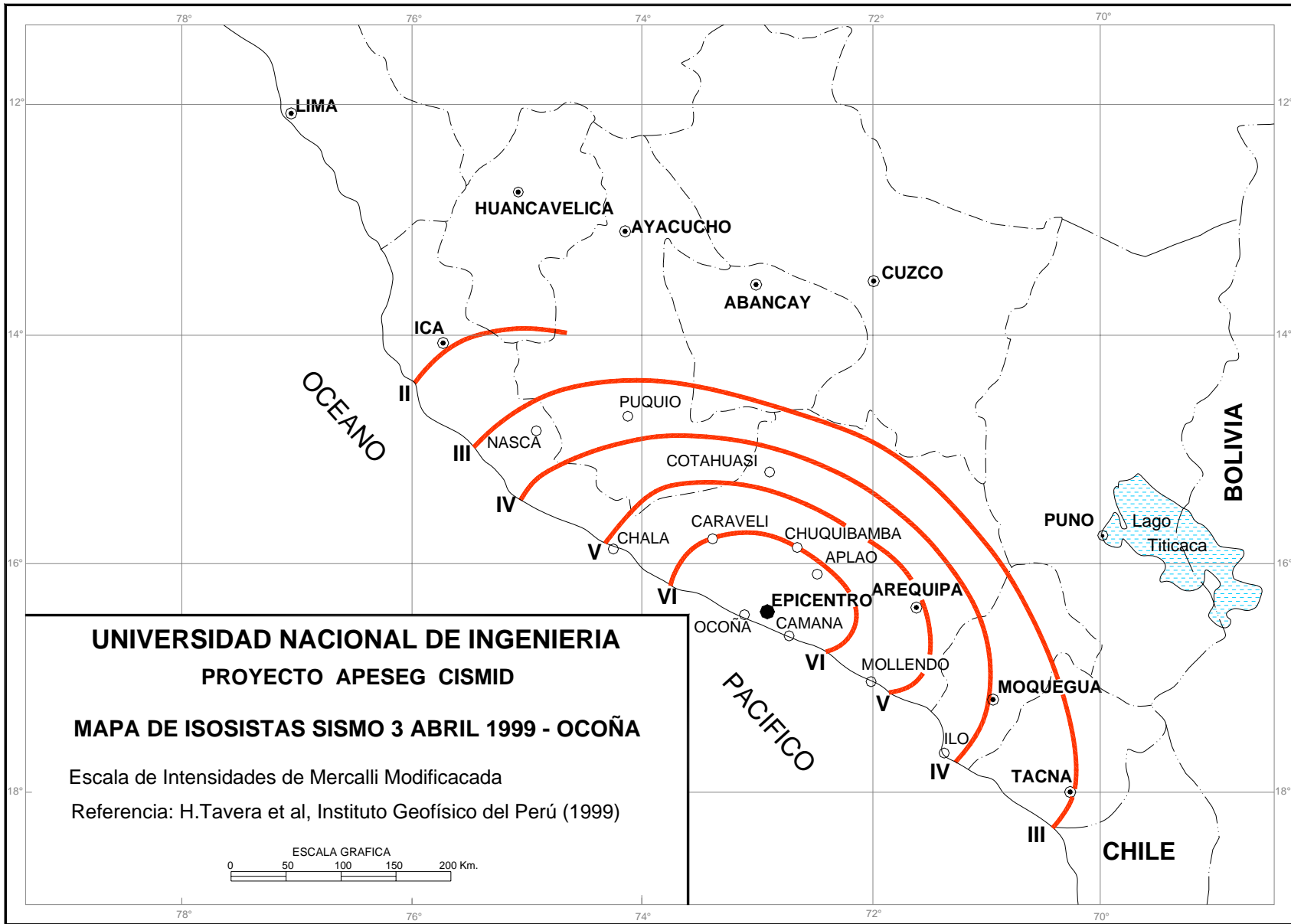
OCEANO PACIFICO

EPICENTRO

BOLIVIA

Lago Titicaca

CHILE



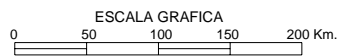
UNIVERSIDAD NACIONAL DE INGENIERIA

PROYECTO APESEG CISMID

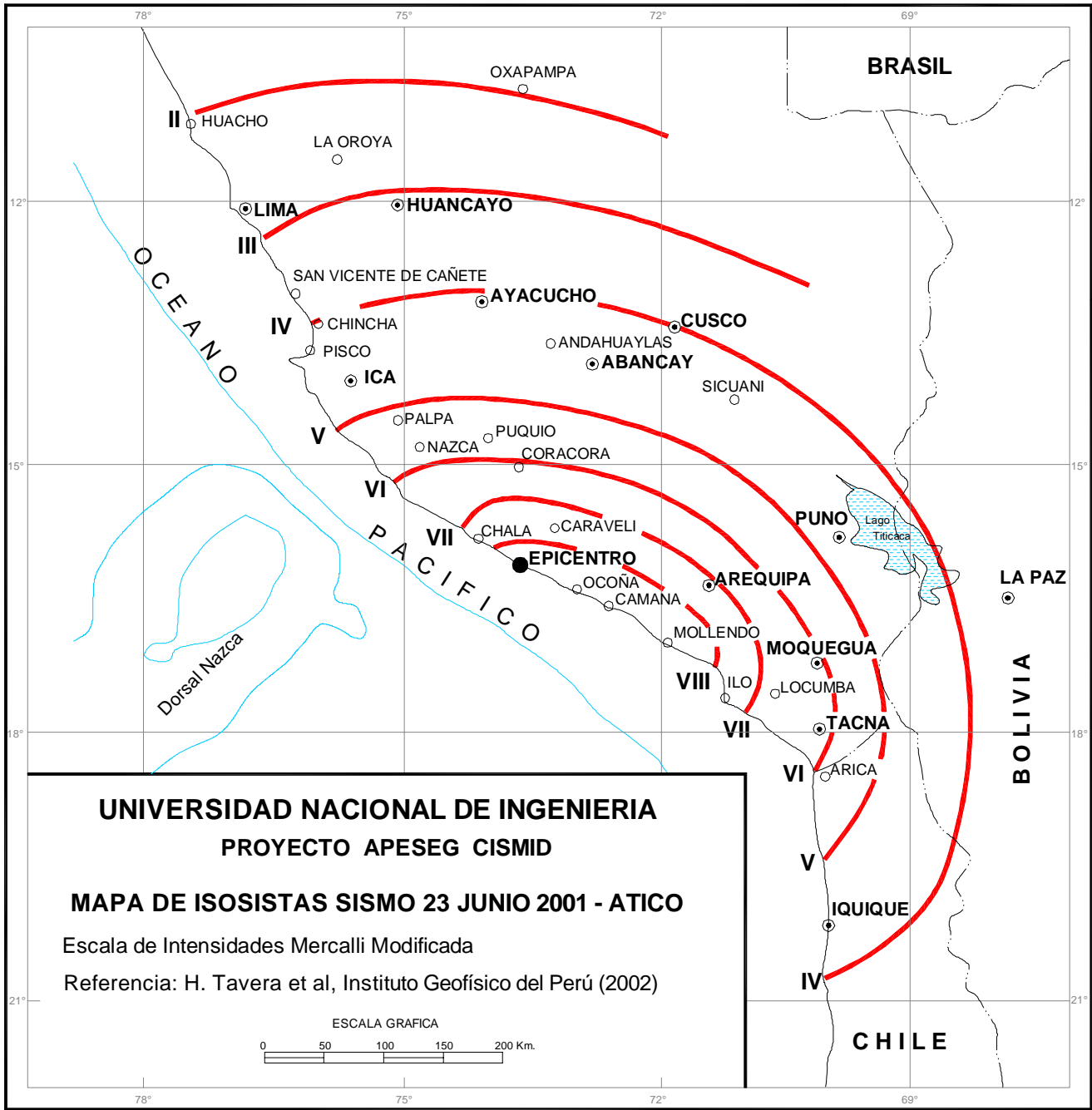
MAPA DE ISOSISTAS SISMO 3 ABRIL 1999 - OCOÑA

Escala de Intensidades de Mercalli Modificacada

Referencia: H.Tavera et al, Instituto Geofísico del Perú (1999)



MAPAS ISOSISTAS SIGLO XXI



**UNIVERSIDAD NACIONAL DE INGENIERIA
 PROYECTO APESEG CISMID**

MAPA DE ISOSISTAS SISMO 23 JUNIO 2001 - ATICO

Escala de Intensidades Mercalli Modificada

Referencia: H. Tavera et al, Instituto Geofísico del Perú (2002)

