

Once all the previous steps have been completed, we make an outline of a plan which later becomes a project, the one which is revised and approved to then become the Definitive Plan.

Besides that, there are specific plans for each kind of disaster: Earthquakes, floods, droughts, volcanic eruptions, etc.

IV. CONCLUSIONS

1. Preparing simultaneously for disaster and technological disaster is complex, but planning models exist now that make integrated planning easier.
2. Integrated planning involves a shift in emphasis from post disaster relief to predisaster preparedness.
3. A public education program that gets usable information to the people who should be prepared for disaster and that helps change their attitude from one of indifference or fatalism to one preparedness.
4. The integration of disaster planning into the mainstream of government decision making.
5. Stronger organizations and better coordination of the links between them.
6. Better training at all levels.
7. And the increased transfer of technology and knowledge to those at risk with other countries: Japan, U.S.A., France.
8. Local media appropriate for disaster communications

(especially radio) should be bolstered and local emergency response mechanisms strengthened.

9. The establishment of early warning systems useful for all disasters.
10. Regulation of land use (including the siting and transportation of hazardous materials) should be rationalized internationally as well as locally.

ACKNOWLEDGMENTS

I would like to express my gratitude to the Government of Japan through the JICA and the National Research Center For Disaster Prevention who made it possible my participation in this seminar, where I knew and learned the new technology about the Disaster Prevention during my stay in this very hospitable and beautiful country.

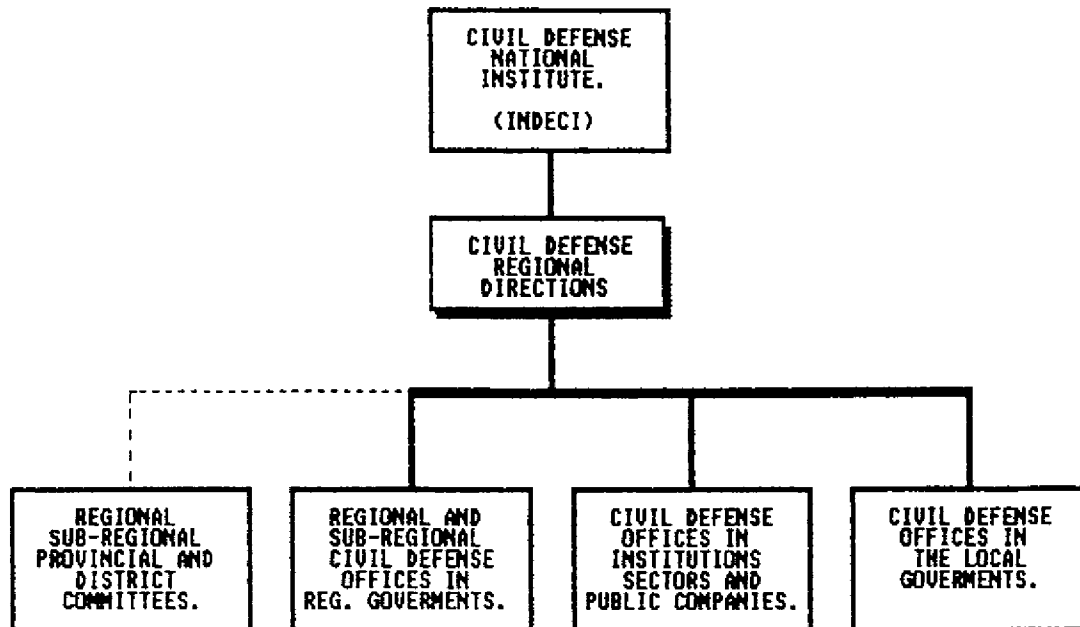
I wish special thank to Mrs. Nannichi who help me always and was also a good friend. Also a Miss. Ebisawa for her cooperation, and all participants because with them incharge experiences about our countries and was a good friends.

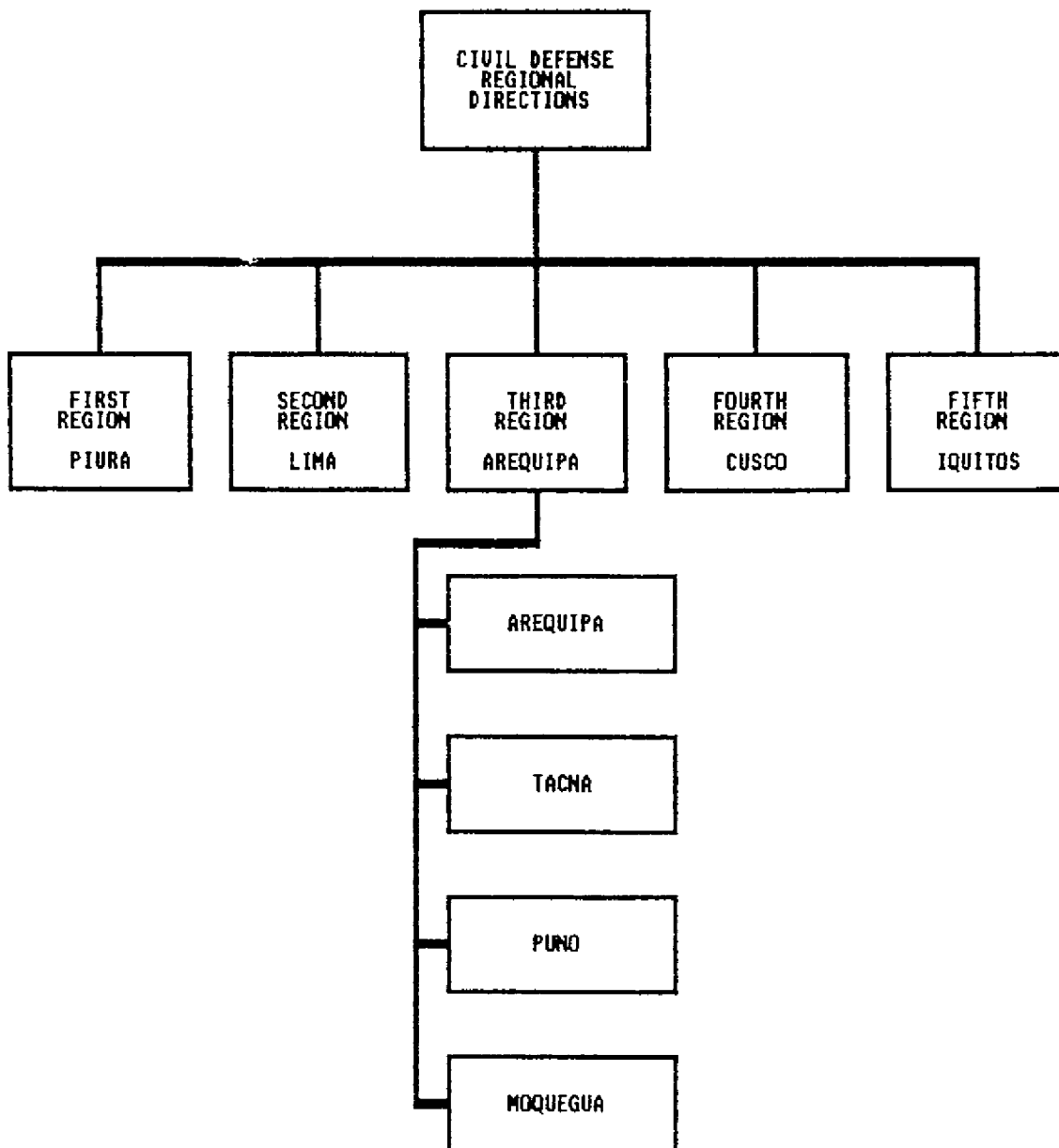
My gratitude also for all members TBIC for their orientation everydays.

I will remember always

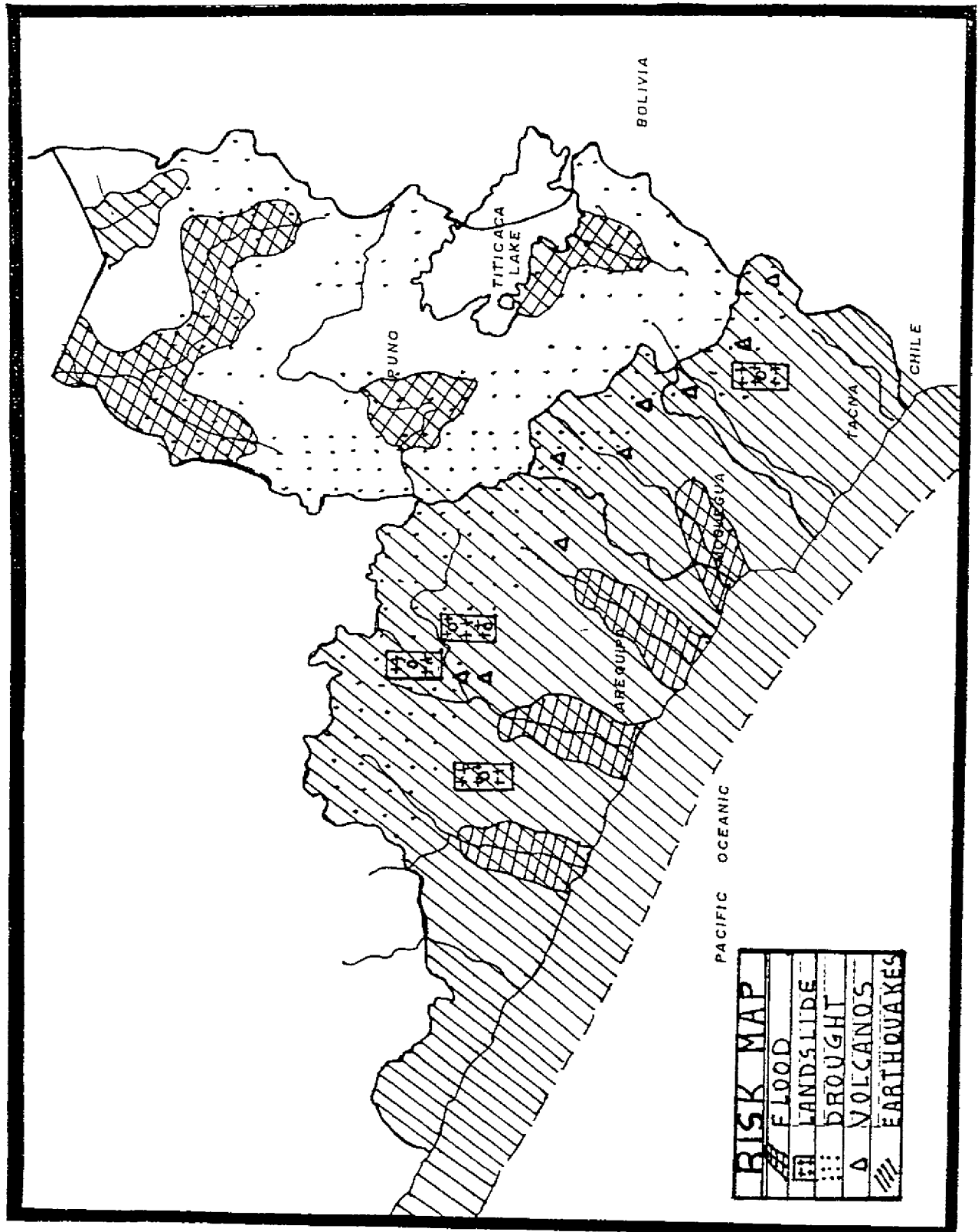
Sayonara.

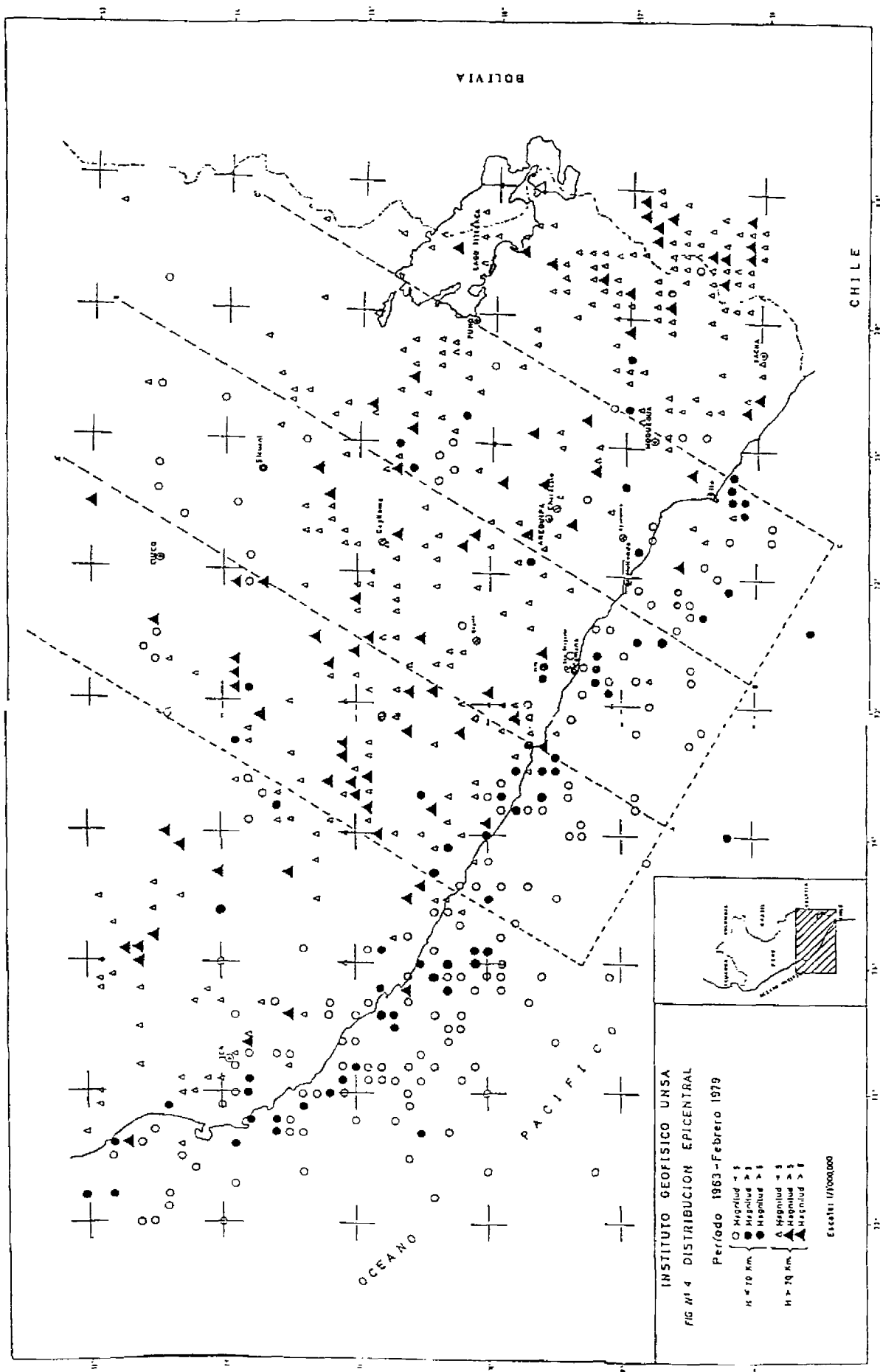
CIVIL DEFENSE NATIONAL SYSTEM

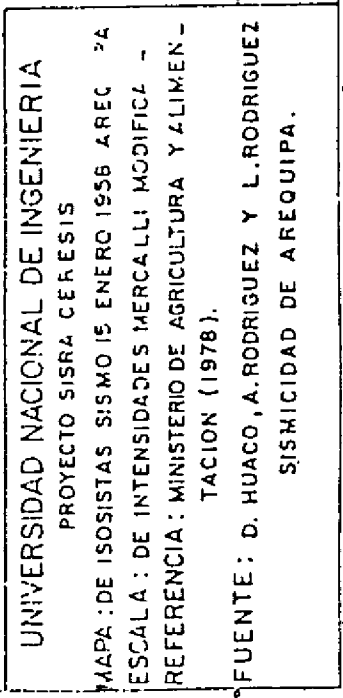






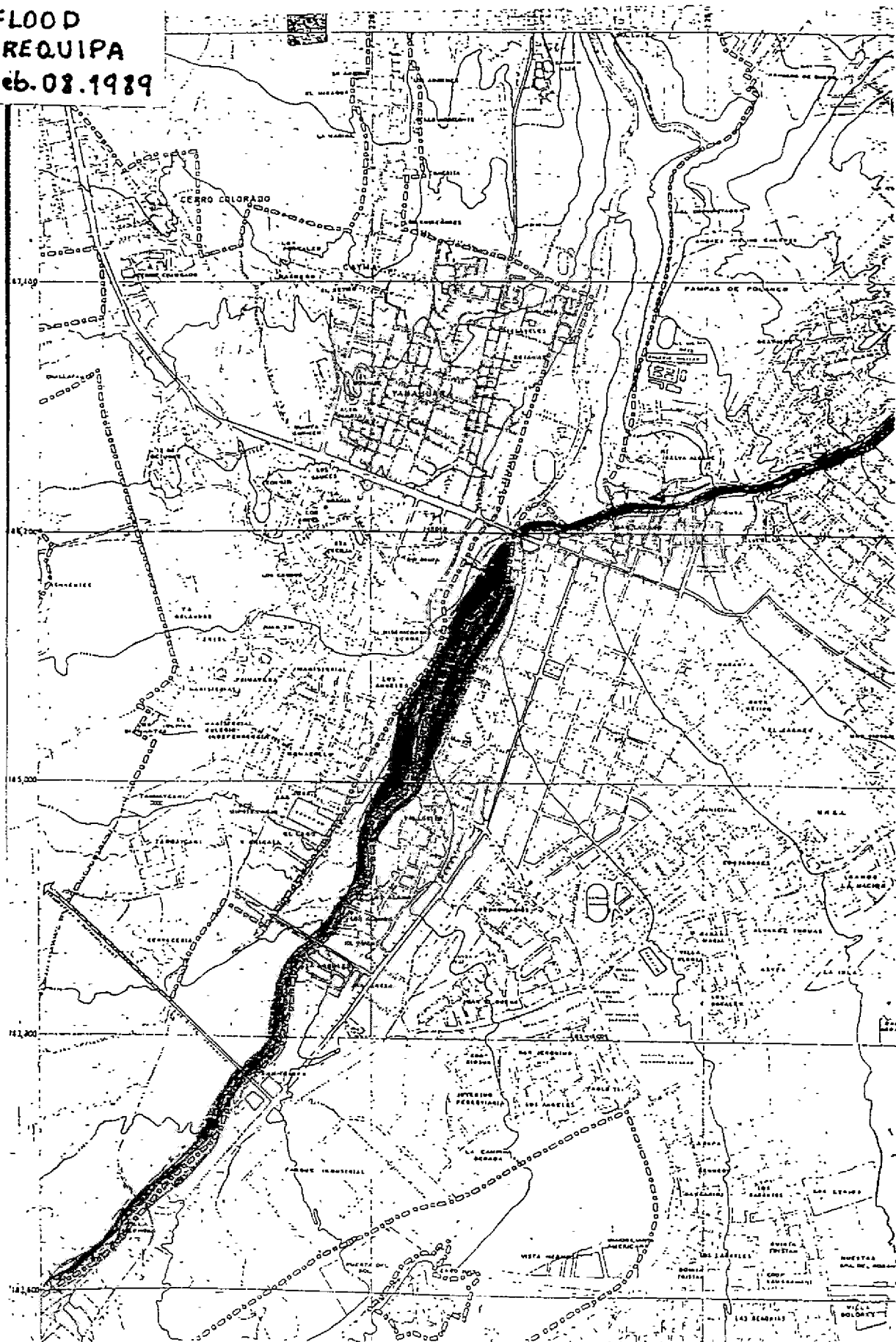


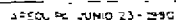


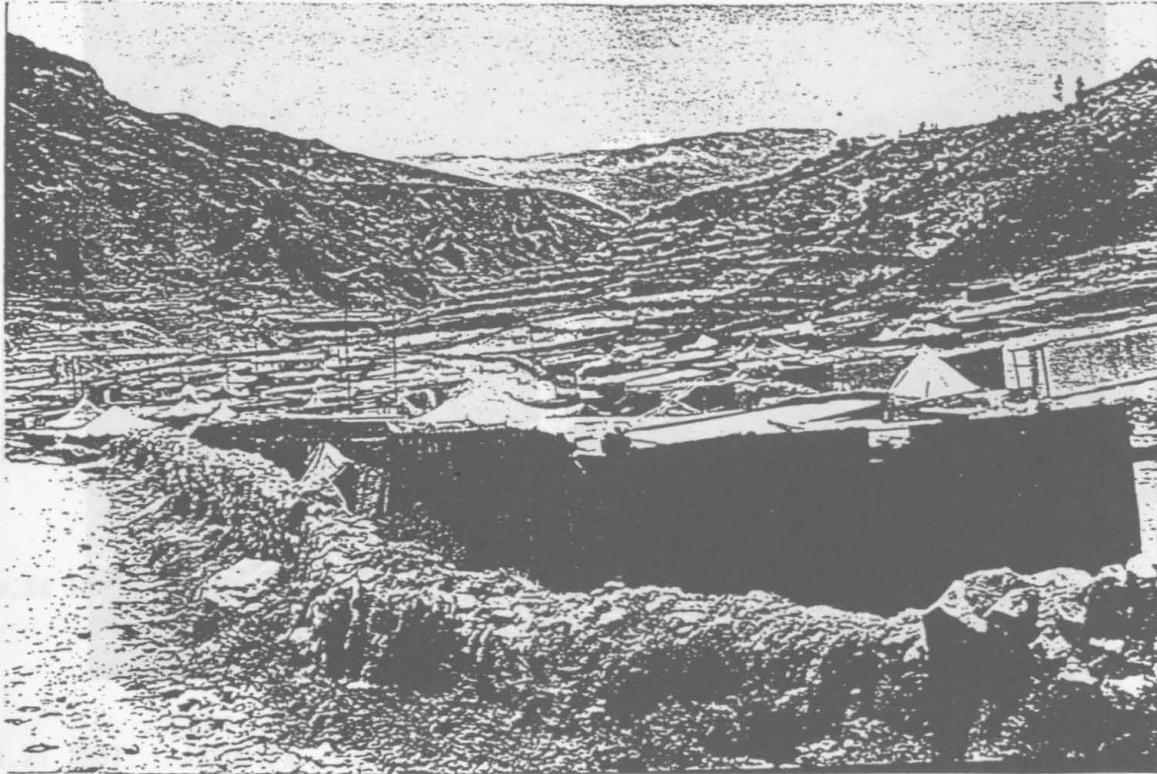




FLOOD
AREQUIPA
Feb. 08. 1989



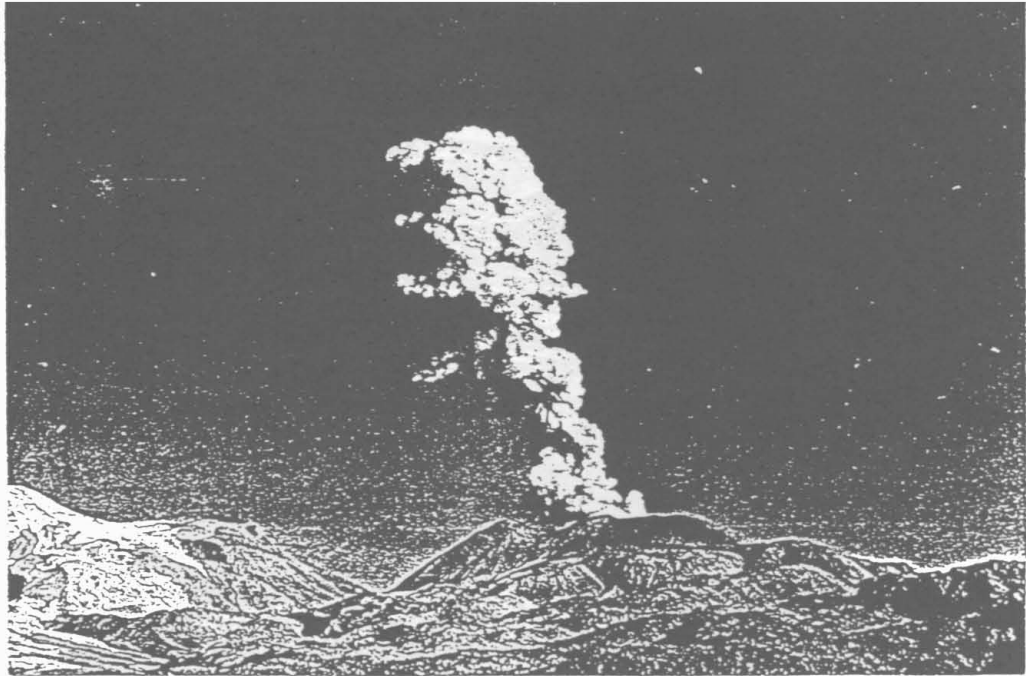




VIEW MACA TOWN: EARTHQUAKE JULY 23, 1991



THE PICTURE SHOWS THE CHURCH DESTROYED IN MACA TOWN: EARTHQUAKE JULY 23, 1991



THE PICTURE SHOWS THE SABANCAYA VOLCANO IN MAY 11, 1992



VIEW OF SABANCAYA VOLCANO IN AUGUST 1992

EARTHQUAKE IN PERU (1471 - 1991)

YEARS	PLACE	HOUR	INTENSITY	COMENTARIES
1471 - 1490	AREQUIPA	*****	VIII	Inca Tupac Yupanqui epoch. Arequipa city in ruins caused by an earthquake and the Misti vulcanos eruption.
1513 - 1515	AREQUIPA	*****	VIII	Strong landslides the sea went out and covered the beachline.
Jan.22 1582	AREQUIPA	11:30	IX	Arequipa city was destroyed. 35 dead people.
Feb.19 1600	MOQUEGUA (Omate)	05:00	XI	Seism caused by the Huaynaputina vulcano eruption. Arequipa and Moquegua cities were affected.
Nov.24 1604	AREQUIPA MOQUEGUA TANCNA	13:30	VIII	Arequipa city in ruins. Tacna and Moquegua cities was with serious damages in the houses. A Tsunami destroyed Arica city in CHILE.
Oct.21 1687	AREQUIPA	07:00	VIII	Houses and Churches were affected in Arequipa Villages of Majes and Sigwas were with damages.
Aug.22 1715	AREQUIPA	19:00	VII	Small towns of high places of Arequipa were destroyed. Felt in Arica city.
Feb.06 1716	TANCA	*****	****	Destruction in Tarata town.
Jan.05 1725	AREQUIPA	08:00	VII	Most of the houses in Arequipa were destroyed.
1747	PUNO	*****	****	Caused serious damages in Ayapata town. Several dead people.
Jan.13 1784	AREQUIPA	07:36	VII	An earthquake destroyed Arequipa city 54 dead people.
Jul.10 1821	CAMANA OCONA CARAVELI	05:00	VII	Destruction in Majes Valley and cities of Camana, Caraveli, Ocona & Chuquibamba.
Sep.18 1833	TACNA	05:45	****	Destruction in Tacna damages in Arequipa, Moquegua, Torata, Sama, Locumba Ilabaya and Arica cities. Felt in Bolivia, in the city of La Paz.

YEARS	PLACE	HOUR	INTENSITY	COMENTARIES
Aug.13 1868	AREQUIPA ARICA	16:45	XI	Destruction in the city of Arequipa. A Tsunami demolished part of the Peruvian littoral.
Nov.03 1869	AREQUIPA	19:30	VI	Damages in buildings of Arequipa.
Jul.28 1913	CHALA	01:40	****	Submarine wires were broke in front of the Coast. 17 South, 74 West Magnitude.
Aug.06 1913	AREQUIPA CARAVELI	17:13	VIII	Caraveli city in ruins. Damages in Arequipa's buildings 17 South, 74 West.
Sep.11 1914	CARAVELI	06:48	****	Damages in the city of Caraveli caused by landslides from the sorrouded hills.
Oct.11 1922	AREQUIPA CARAVELI MOLLEND	09:50	VI VIII VI	Serious damages in Arequipa. Caraveli was destroyed. 16 South, 72.5 West Profundity, 50 Km.
Apr.09 1928	PUNO	12:30	****	Destruction of Tuata and Ayapata cities. 13 South, 69 West. Profundity:30Km. Magnitude:6.9
Oct.11 1939	AREQUIPA CHUQUIBAMBA	17:51	VII VII	Serious damages in Arequipa and Chuquibamba cities.
Aug.24 1924	AREQUIPA ICA	17:51	IX	Destruction in an area of 18,000Km. 30 dead people, 25 injured people. 15 South, 76 West.
May 11 1948	AREQUIPA MOQUEGUA TACNA	03:56	VI VII	Damages in area of 3,500. 1 dead, 66 injured 17 South, 71 West. Profundity: 60-70 Km.
Mar.04 1951	CHALA CARAVELI	06:18	VI	Destroyed Caraveli. 16 South, 74.5 West Profundity: 32 Km.
Oct.03 1951	TACNA MOQUEGUA	06:08	VI	Modern buildings were damaged. 17 South, 71 West. Profundity: 100Km
Jan.15 1958	AREQUIPA	14:14	VIII	Destruction in old houses. 28 dead people, 133 injured people. 16.5 South, 72 West Profundity: 90 Km.
Jan.13 1960	AREQUIPA	10:40	VIII	Destruction houses 63 dead people and 100 of injured people. 15.76 South, 72 West. Profundity: 82 Km.

YEARS	PLACE	HOUR	INTENSITY	COMENTARIES
Mar.09 1960	AREQUIPA	18:54	V	Felt in Puno, Jejiá Mollendo and Matarani cities. 16 Sough, 72 West.
Jan.26 1964	AREQUIPA MOLLEND UBINAS	04:00	VI V V	Several houses were damaged.
Feb.16 1979	AREQUIPA	05:09	VI	Damages in rustic houses. 18 dead people. 16.39 Sough, 72.75 West. Profundity: 53 Km
Aug.08 1987	TACNA	10:15		Material damages in houses. Epicenter at 19.022 South and 69.991 West. Profundity: 60Km.
Jul.23 1991	AREQUIPA	14:30		12 dead people, 95% of the houses were destroyed, 673 has. of farm lands were damaged. 1784 damnifiques.

SOURCE: SAN AGUSTIN NATIONLA UNIVERSITY GEOPHISIC INSITUTE

SCHEME OF A BASIC PLAN

I. OBJECTIVE OR PURPOSE

1. Objective

What is it you expect from this Plan?

What will the operations be oriented to when the Plan is activated?

2. Legal Frame

Legal requirements

3. Situation

Operations Plan

Hazards analysis

Factors that contribute to the eaching of the objective

4. Hypothesis or Assumptions

Possible situations that would take place in case the hazards or disasters took place.

II. ORGANIZATION AND RESPONSABILITIES

1. Organization

Current Organization of the community to cope deal with disasters.

2. Responsabilities

Indicate all organizations involved in the Plan

Point out their responsibilities

III. EXECUTION

1. Operaiton Concepts

How are the operations going to be carried out in the prevention, emergency, rehabilitation phases respectively?

2. Tasks or Actions

Summariza the course of action or tasks each plan-participating organizaion will carry out in each ot the phases of Disaster Management.

IV. MANAGEMENT AND LOGISTICS

1. Staff

The available personnel to activate the plan should be indicated.

2. Logistics

It indicates the available material resources and how will the community support services be coordinated.

3. Financing

The available financial resources for the disaster management should be indicated.

V. DIRECTION AND CONTROL

1. Direction

It indicate who is in charge of directing and controlling the operations, when and where this person should do this.

2. Communications

Indicates the emergency communication systems

Indicates the warning systems.