JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

**METROPOLITAN DISTRICT OF CARACAS BOLIVARIAN REPUBLIC OF VENEZUELA** 

# STUDY ON DISASTER PREVENTION BASIC PLAN IN THE METROPOLITAN DISTRICT OF CARACAS IN THE BOLIVARIAN REPUBLIC OF VENEZUELA

PACIFIC CONSULTANTS INTERNATIONAL In association with **OYO INTERNATIONAL CORPORATION** 

No.

## **FINAL REPORT MAPS**

March 2005



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### Preface

Among the maps prepared in the Study as various GIS layers, important maps are presented in A3 format here.

The maps presented here are classified in five categories, namely "General Conditions", " Hazard", " Vulnerability", " Risk" and " Planning ".

The category "General Conditions" includes general maps such as study area, administrative boundaries, and natural and social conditions of the area. The category "Hazard" includes hazard maps of both earthquake disasters and sediment disasters. The category "Vulnerability" contains maps of social vulnerability which were prepared in the Study as trial basis. The category "Risk" contains risk maps of both earthquake disasters and sediment disasters. The category "Risk" contains risk maps of both earthquake disasters and sediment disasters. The category "Planning" includes maps of disaster prevention planning such as the location map of debris flow control structures or a map showing the effect of seismic building reinforcement.

### List of Maps

01 Gener	ral Condition	
No.	Title	Remarks
01/01	Study Area (with ADMC limits)	
01/02	Road Network	
01/03	Hydrologic Network	Rivers and Streams
01/04	Parroquia Boundary	
01/05	Population Density	
01/06	Barrio Location	
01/07	Aster Image	
01/08	Surface Geological Model for Earthquake Disaster	Symulation Grids and Location of Existing Data
01/09	Ground Water	
01/10	Geological Map	
01/11	Geology in the Avila Mountain	
01/12	Slope Classifications	Steep Slope and Landslide
01/13	Unstable Sediment on Stream Bed	
01/14	Potential Steep Slope Failure	
01/15	Mountain Stream System	Sediment Disaster Study Area
01/16	Metro Stations	
01/17	Water Supply Lines (Hidrocapital)	
01/18	Firefighting Station	
01/19	Gasoline Stations	
01/20	Government Buildings	
01/21	Police Stations	
01/22	Sports Facilities	
01/23	Health Facilities	
01/24	Educational Facilities (Universities and Technical Schools)	
01/25	Landuse	
01/26	Open Spaces (Area 1ha and more)	Central Area
01/27	Open Spaces (All)	All Area
01/28	Staff Gauge	for Water Level Observation
01/29	Heavy Machinery Distribution	
01/30	Volunteer Group	

No.	Title	
02/01	Scenario Earthquakes	T 1! N 1: A 1: A
02/02	Estimated Seismic Intensity (1967 case)	
02/03	Estimated Seismic Intensity (1812 case)	
02/04	Estimated Seismic Intensity (1878 case)	
02/05	Estimated Seismic Intensity (Avila fault case)	
02/06	Peak Ground Acceleration (1967 earthquake model)	
02/07	Peak Ground Acceleration (1812 earthquake model)	
02/08	Peak Ground Acceleration (1878 earthquake model)	
02/09	Peak Ground Acceleration (Avila fault model)	
02/10	Potential Liquefaction (1967 earthquake model)	
02/11	Potential Liquefaction (1812 earthquake model)	
02/12	Landslide Hazard	Н
02/13	Debris Flow Hazard	J
02/14	Depth Distribution of Debris Flow	F

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No.	Title	
03/01	Social Vulnerability Zonning	
03/02	Social Vulnerability (community)	
03/03	Social Vulnerability (demographic)	
03/04	Social Vulnerability (economic)	
03/05	Social Vulnerability (facility)	
03/06	Social Vulnerability (knowledge)	

04 Risk		
No.	Title	
04/01	Building Damage Ratio (Total) by Microzone 1967 case	
04/02	Building Damage Ratio (Total) by Parroquia 1967 case	
04/03	Building Damage Ratio (Total) by Microzone 1812 case	
04/04	Building Damage Ratio (Total) by Parroquia 1812 case	
04/05	Human Casualty 1967 (Injury) by Prroquia	
04/06	Human Casualty 1812 (Injury) by Prroquia	
04/07	Damage to Water Supply (1967 earthquake model)	
04/08	Damage to Water Supply (1812 earthquake model)	
04/09	Landslide Risk	F
04/10	Debris Flow Risk	F

05	Planning	
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No.	Title	
05/01	Emergancy Routes	
05/02	Building Damage Ratio (Total) by Parroquia for 1967 Case after Structural Measures	
05/03	Building Damage Ratio (Total) by Parroquia for 1812 Case after Structural Measures	
05/04	Structure for Sediment Control	Sa
05/05	Debris Flow Risk after Structural Measures	

Remarks
he location of scenario fault were defined by following manner. 967: Through discussion with FUNVISIS based on Suarez and abelek(1990). 812: Through several trial and error calculation referring udemard(2002), calibrated by the result by Altez(2004). 878: By personal communication with Audemard.
vila: By personal communication with Audemard.
azard Map for Landslide and Steep Slope Failure
apanese Law Sediment Disaster Prevention
LO-2D
Remarks

Remarks Risk Map for Landslide and Slope Failure Risk Map for Debris Flow

Remarks
abo Dam and Channel Work







