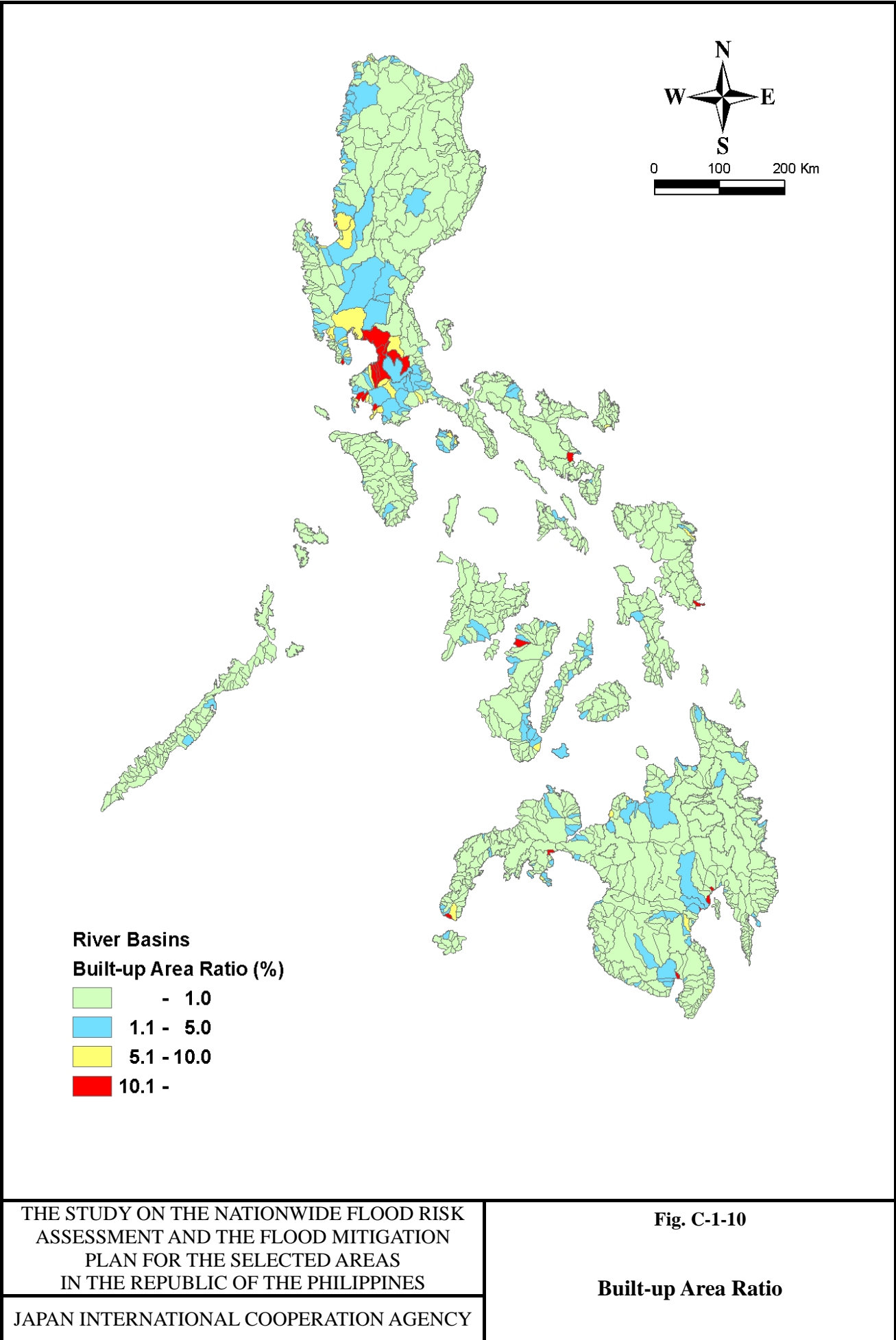


THE STUDY ON THE NATIONWIDE FLOOD RISK ASSESSMENT AND THE FLOOD MITIGATION PLAN FOR THE SELECTED AREAS IN THE REPUBLIC OF THE PHILIPPINES

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Fig. C-1-9

Forest Cover Ratio

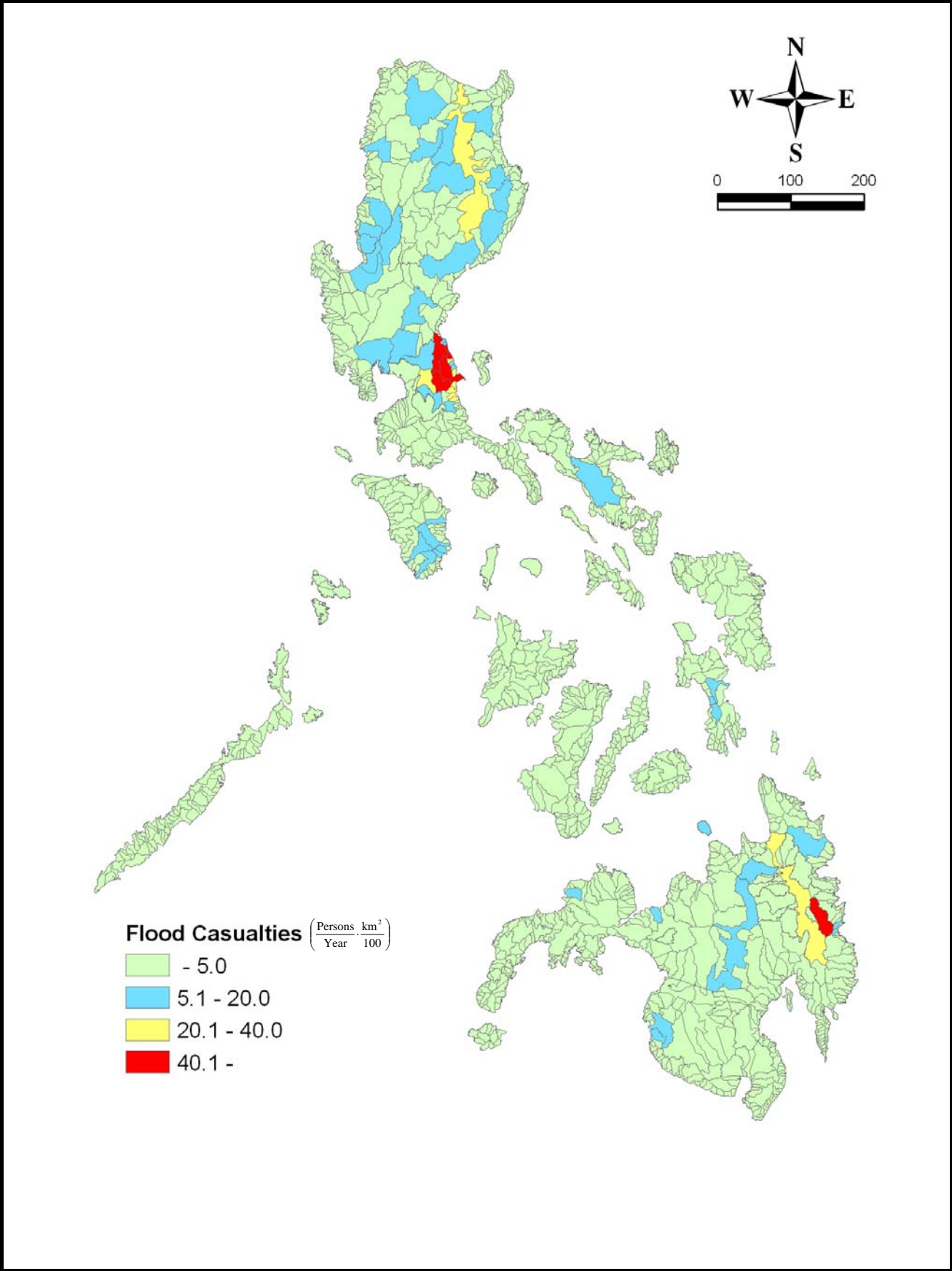


THE STUDY ON THE NATIONWIDE FLOOD RISK ASSESSMENT AND THE FLOOD MITIGATION PLAN FOR THE SELECTED AREAS IN THE REPUBLIC OF THE PHILIPPINES

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**Fig. C-1-10**

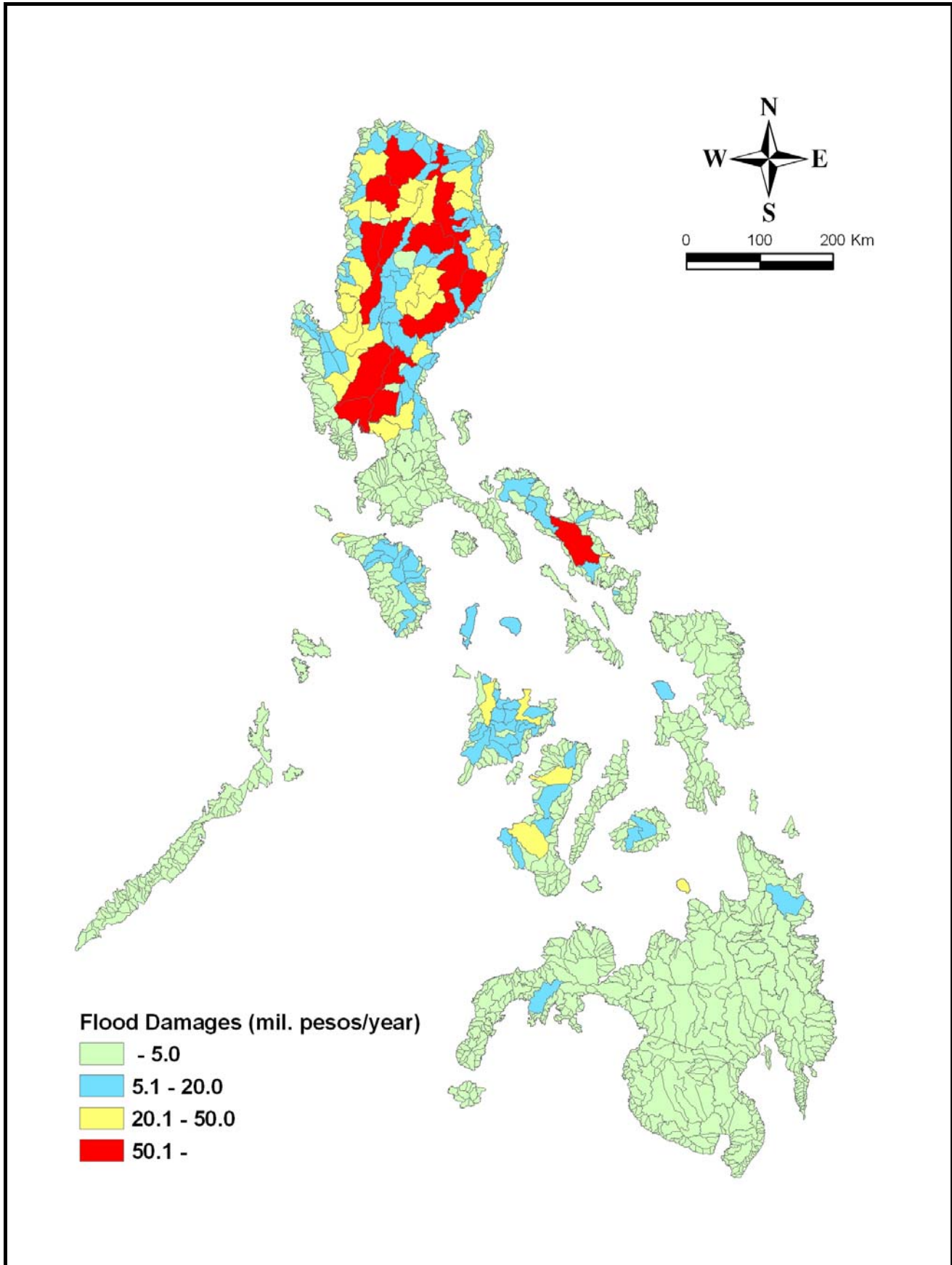
**Built-up Area Ratio**



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**Fig. C-1-11**  
**Flood Casualties**

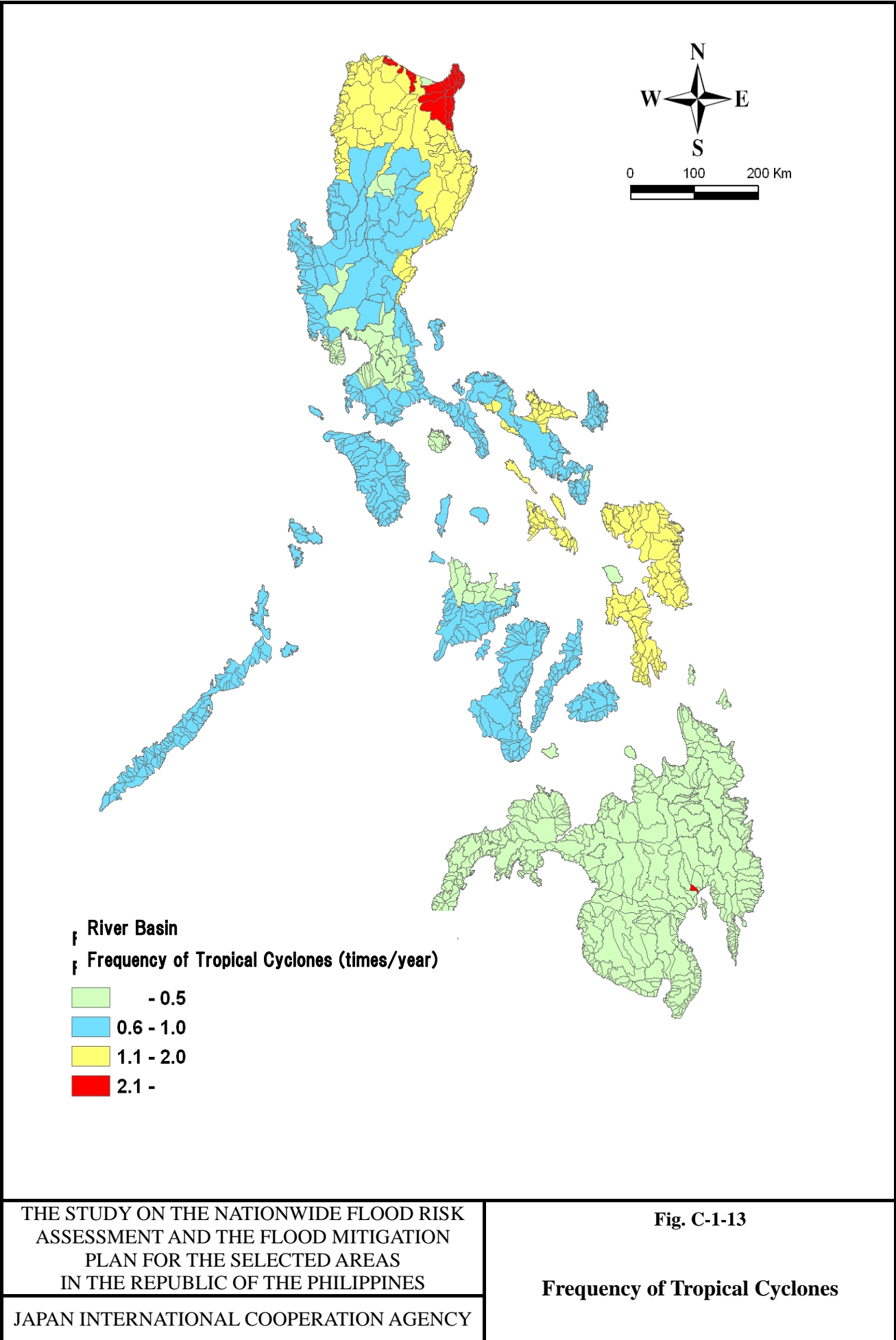


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**Fig. C-1-12**  
**Flood Damages of River Basins in 2001–2005**



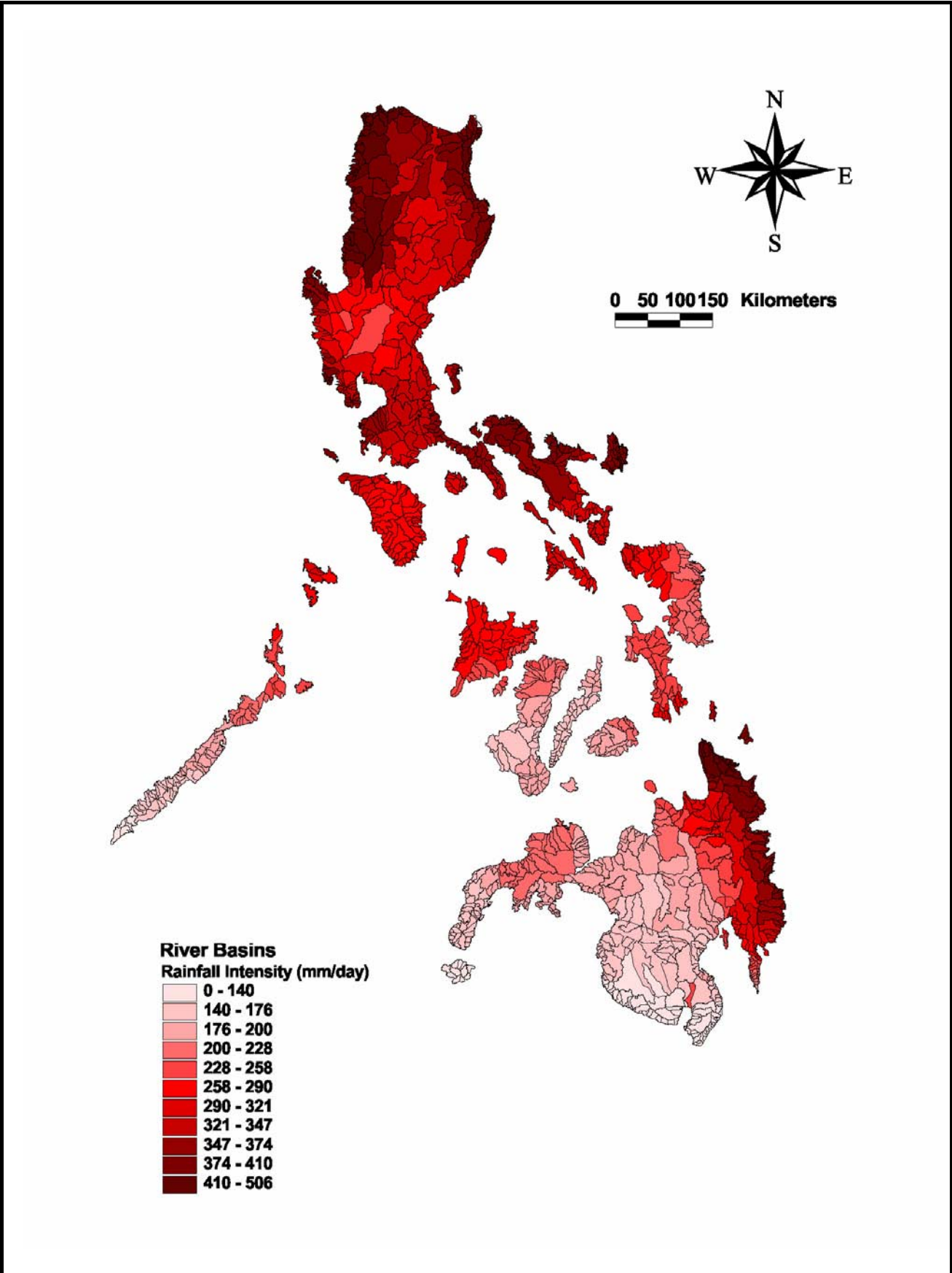


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**Fig. C-1-13**

**Frequency of Tropical Cyclones**

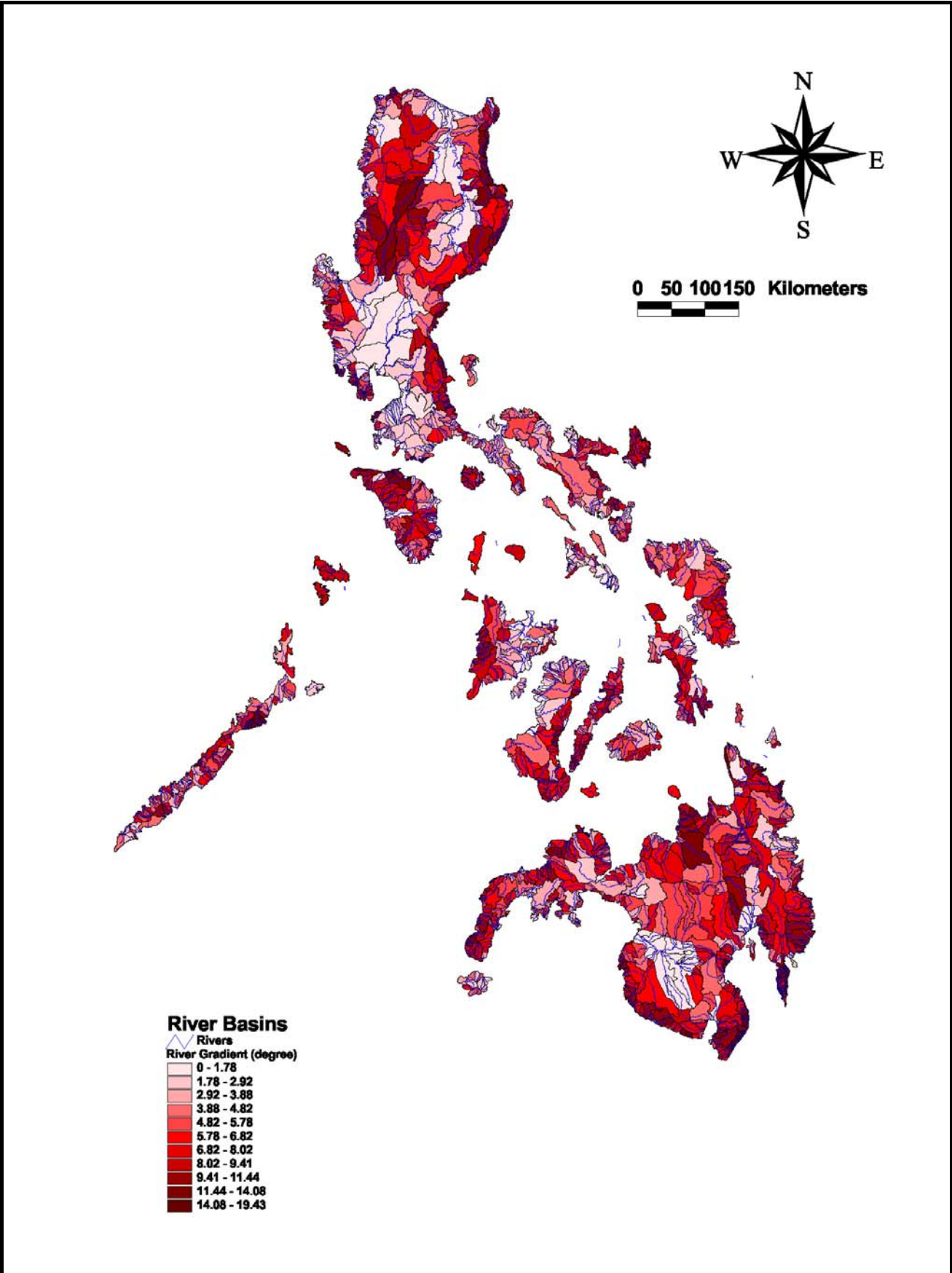


THE STUDY ON THE NATIONWIDE FLOOD RISK  
 ASSESSMENT AND THE FLOOD MITIGATION  
 PLAN FOR THE SELECTED AREAS  
 IN THE REPUBLIC OF THE PHILIPPINES

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Fig. C-1-14

Rainfall Intensity

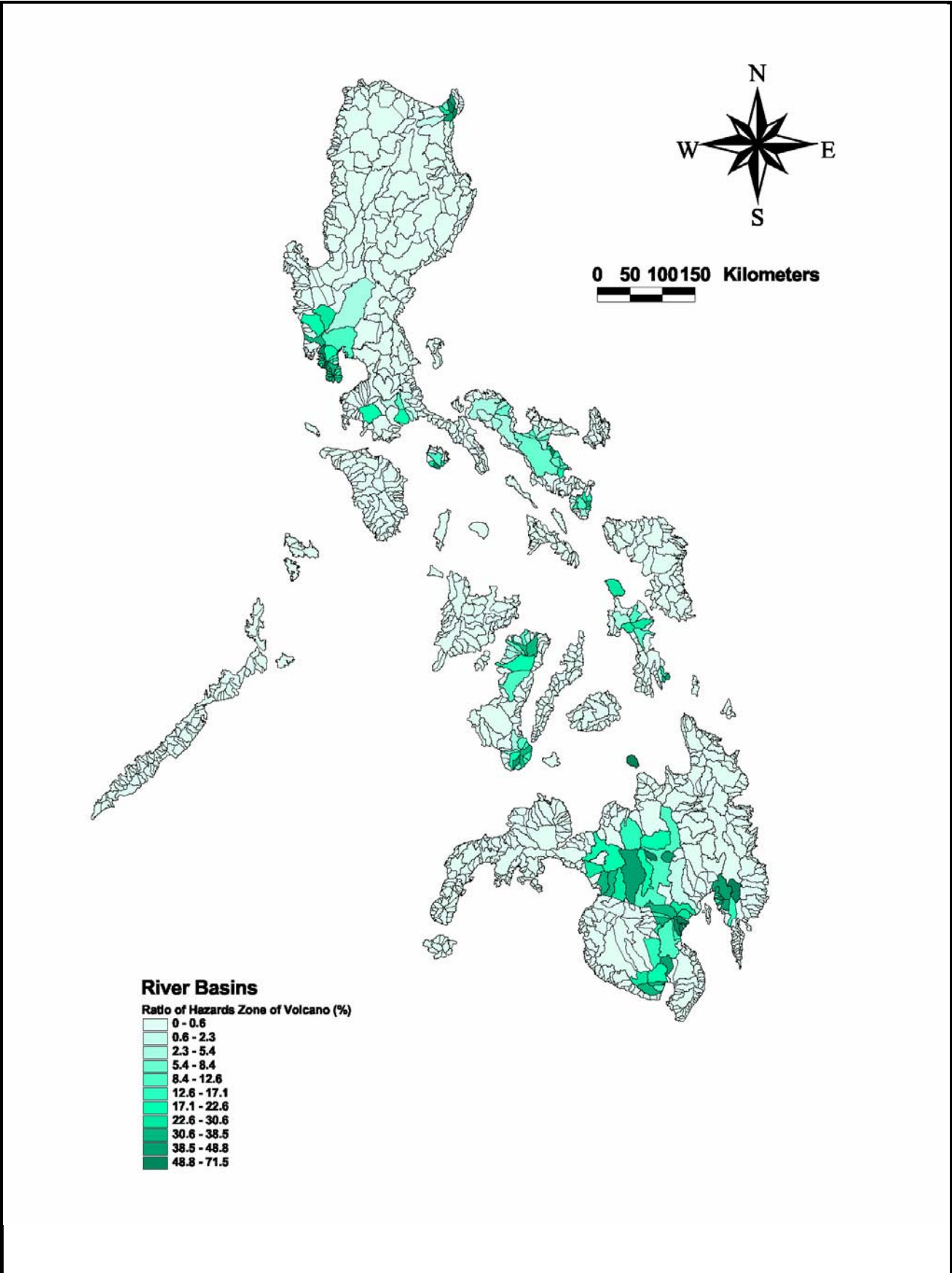


THE STUDY ON THE NATIONWIDE FLOOD RISK ASSESSMENT AND THE FLOOD MITIGATION PLAN FOR THE SELECTED AREAS IN THE REPUBLIC OF THE PHILIPPINES

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Fig. C-1-15

River Gradient



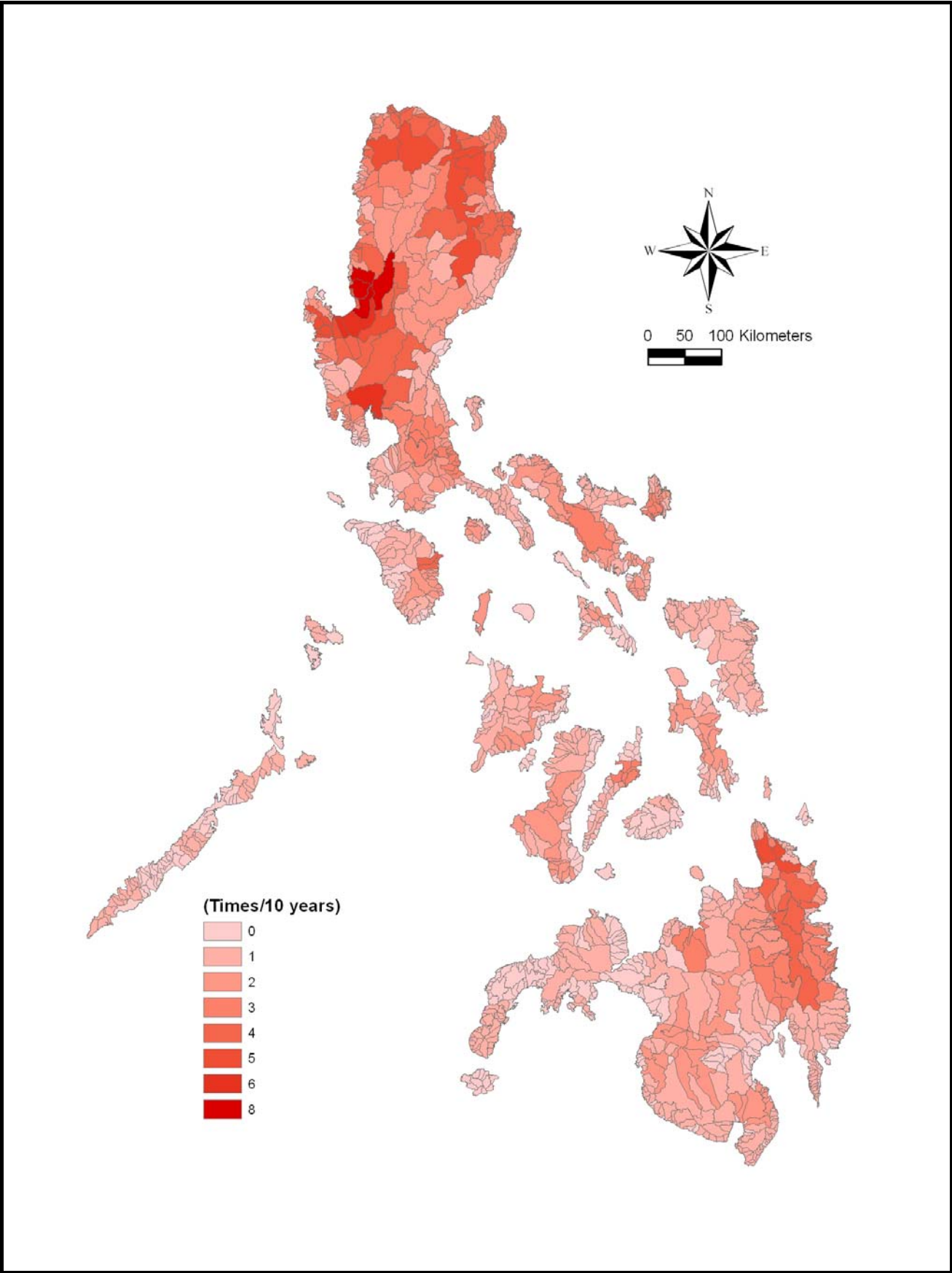
THE STUDY ON THE NATIONWIDE FLOOD RISK ASSESSMENT AND THE FLOOD MITIGATION PLAN FOR THE SELECTED AREAS IN THE REPUBLIC OF THE PHILIPPINES

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Fig. C-1-16

Hazards Zone of Volcano

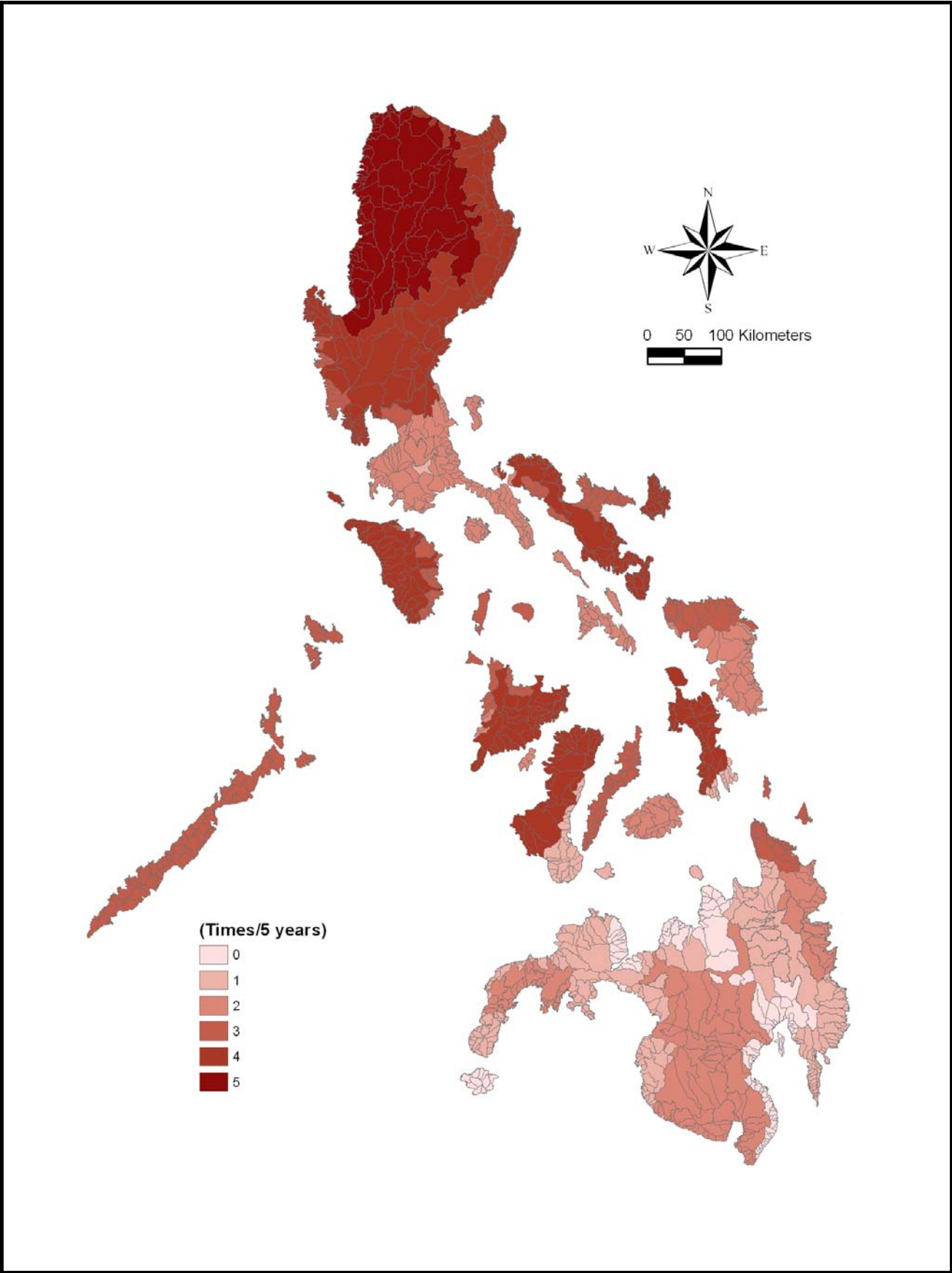




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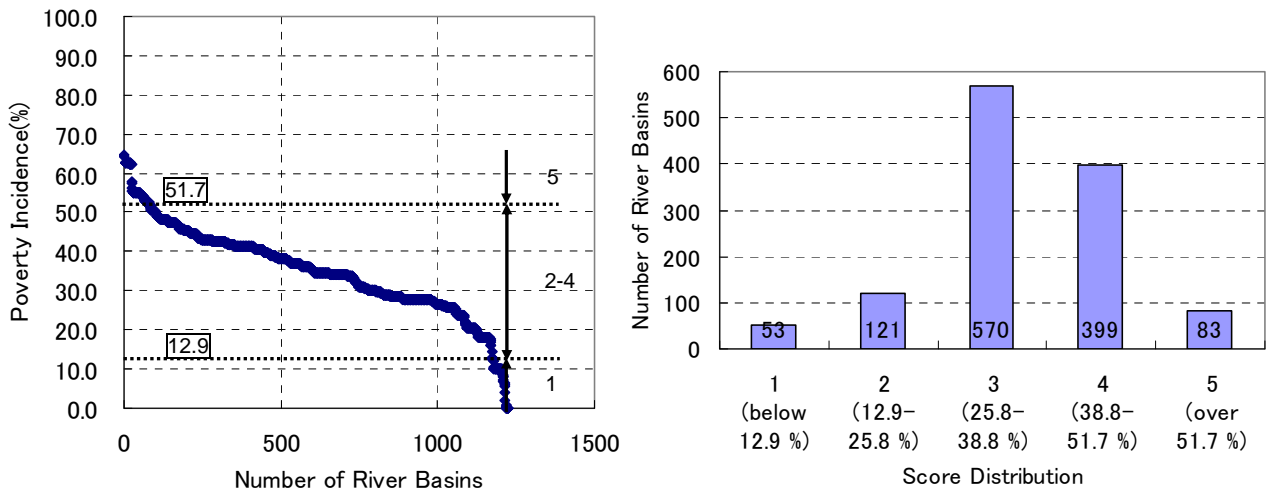
**Fig. C-1-17**  
**Frequency of Floods based on Flood Casualty Data (times/10 years)**



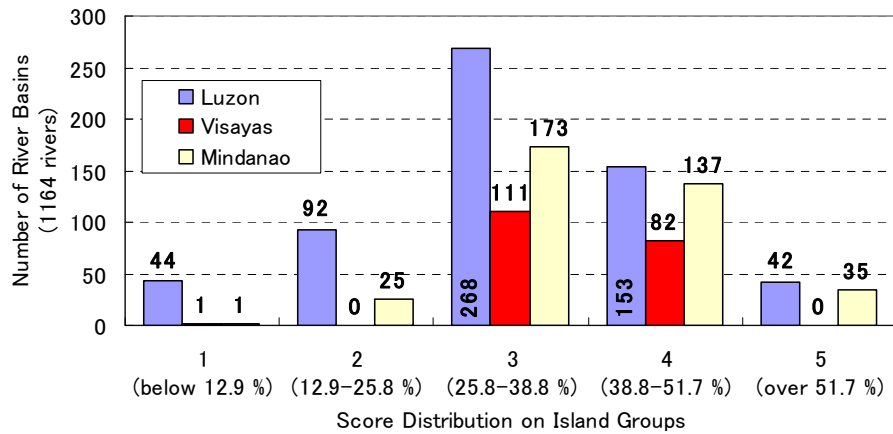
THE STUDY ON THE NATIONWIDE FLOOD RISK ASSESSMENT AND THE FLOOD MITIGATION PLAN FOR THE SELECTED AREAS IN THE REPUBLIC OF THE PHILIPPINES

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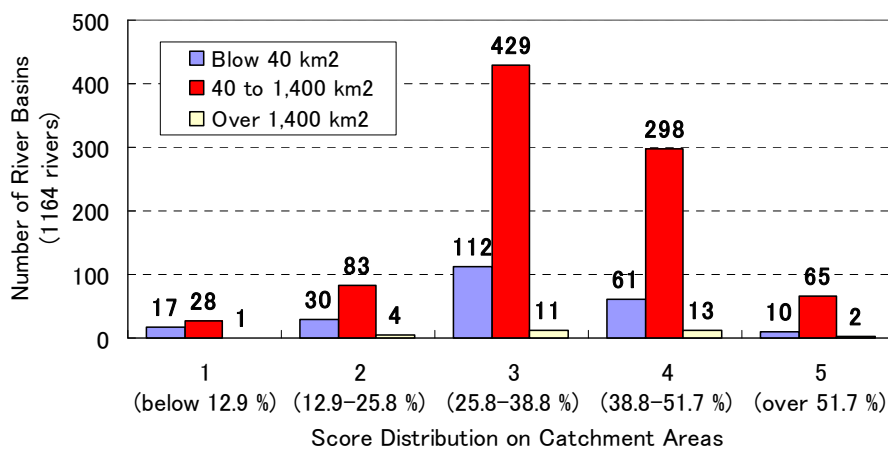
**Fig. C-1-18**  
**Frequency of Floods based on Flood Damage Data (times/5 years)**



(i) Distribution and Scoring Method



(ii) Island Groups



(iii) Catchment Areas

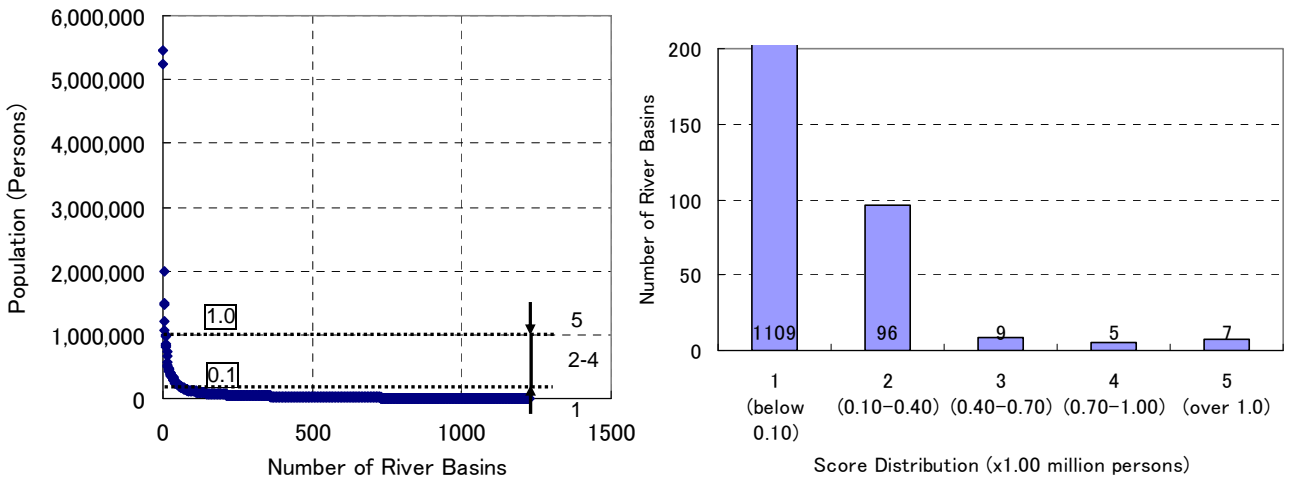
Note) The distribution of item (i) is studied based on all relating principal river basins, etc., not using major river basins.

THE STUDY ON THE NATIONWIDE FLOOD RISK ASSESSMENT AND THE FLOOD MITIGATION PLAN FOR THE SELECTED AREAS IN THE REPUBLIC OF THE PHILIPPINES

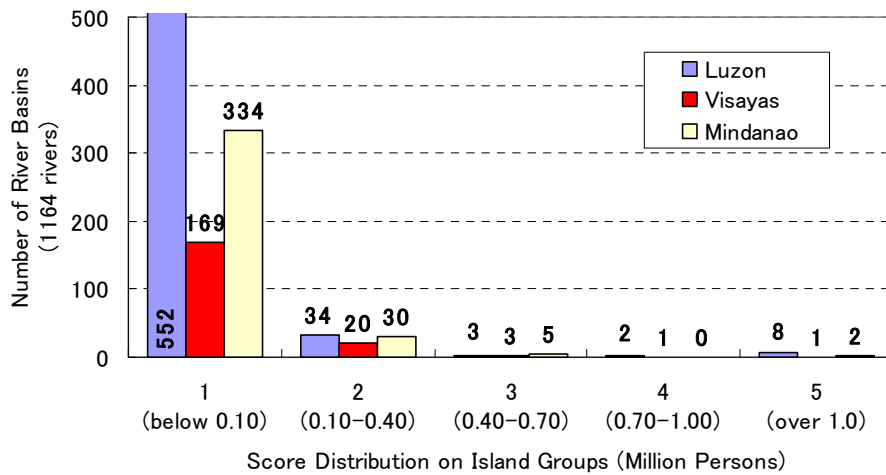
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Fig. C-1-19

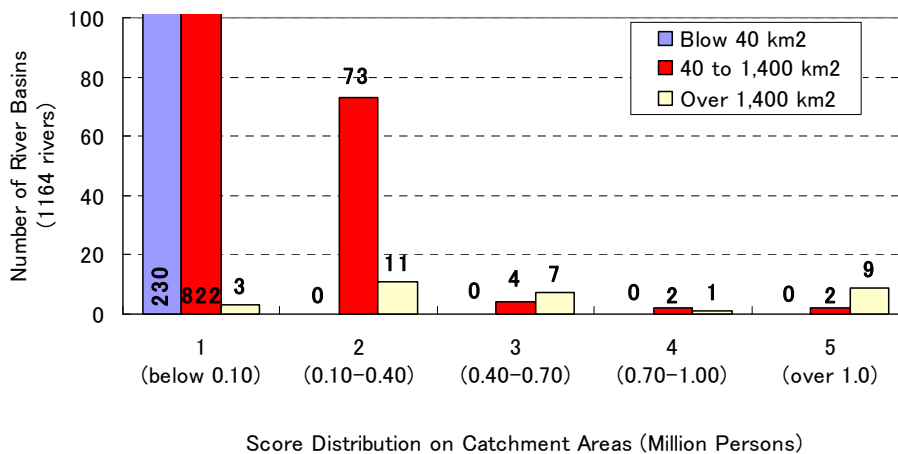
Score Distribution on Poverty Incidence (S1)



(i) Distribution and Scoring Method



(ii) Island Groups



(iii) Catchment Areas

Note) The distribution of item (i) is studied based on all relating principal river basins, etc., not using major river basins.

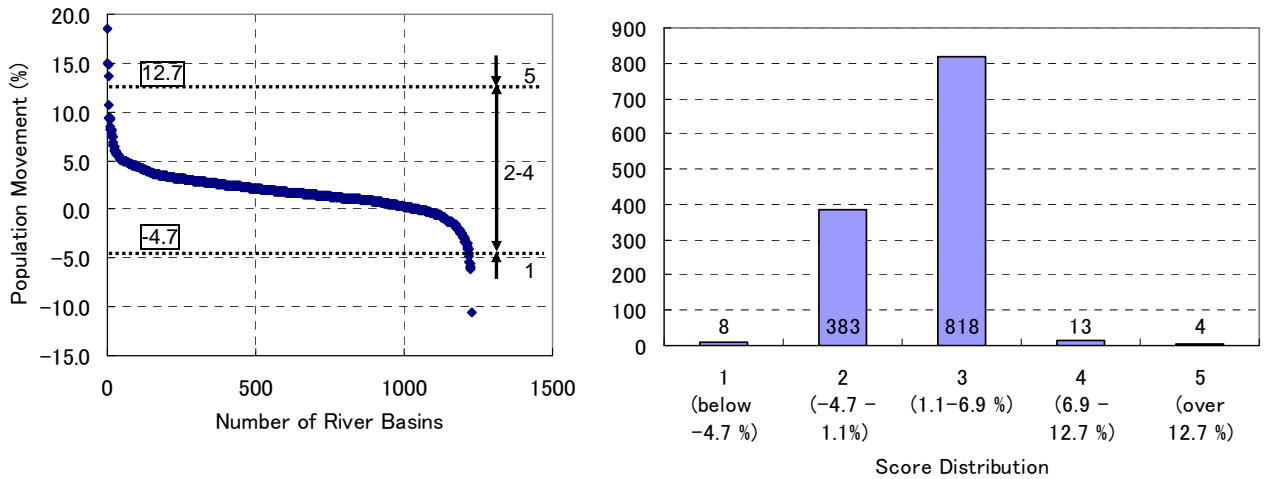
THE STUDY ON THE NATIONWIDE FLOOD RISK ASSESSMENT AND THE FLOOD MITIGATION PLAN FOR THE SELECTED AREAS IN THE REPUBLIC OF THE PHILIPPINES

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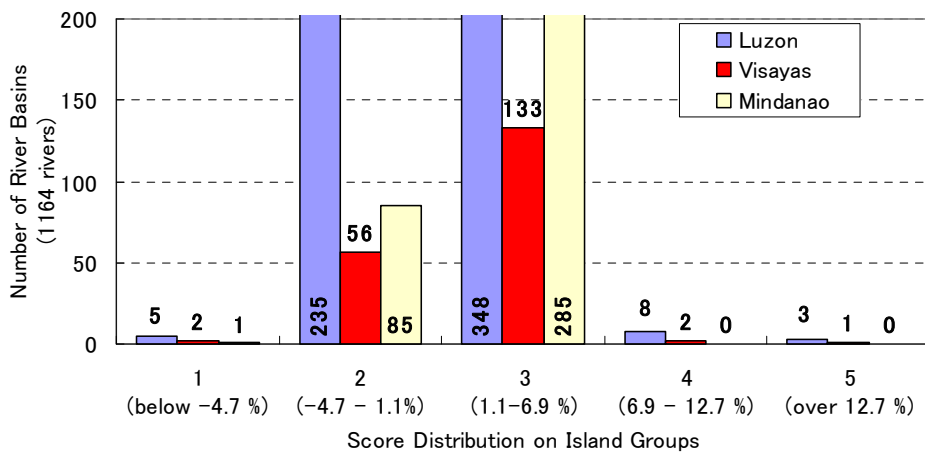
Fig. C-1-20

Score Distribution on Population (S2)

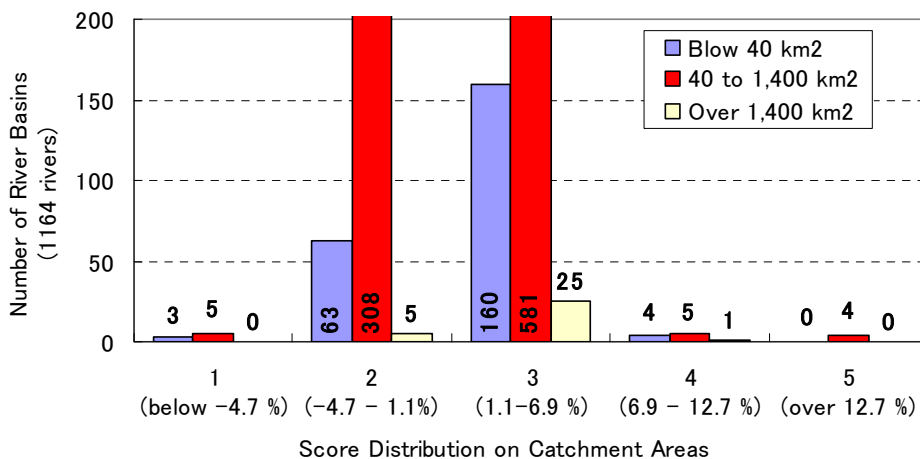




(i) Distribution and Scoring Method



(ii) Island Groups



(iii) Catchment Areas

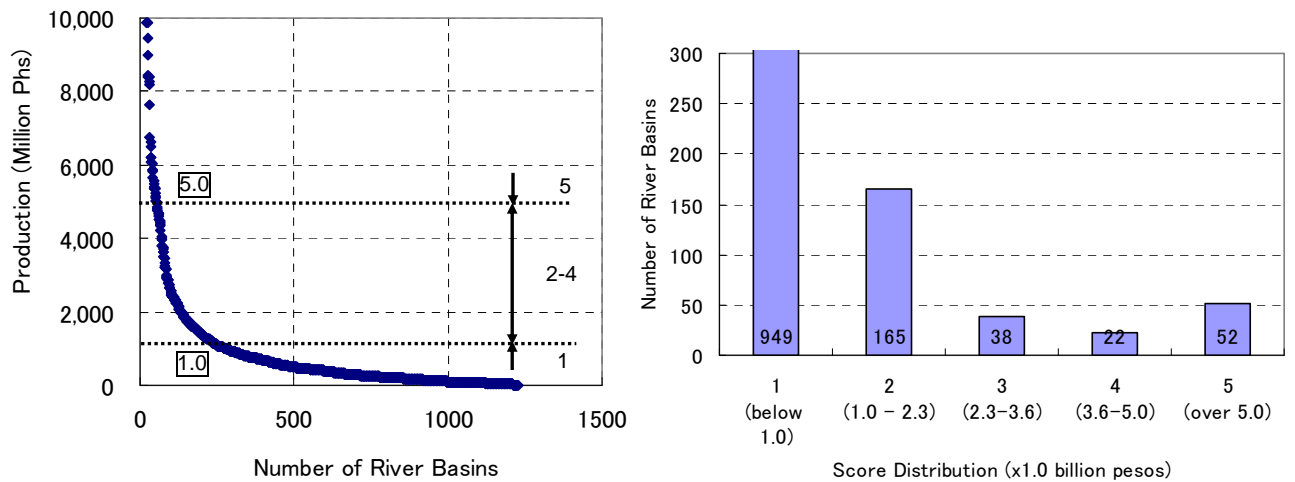
Note) The distribution of item (i) is studied based on all relating principal river basins, etc., not using major river basins.

THE STUDY ON THE NATIONWIDE FLOOD RISK ASSESSMENT AND THE FLOOD MITIGATION PLAN FOR THE SELECTED AREAS IN THE REPUBLIC OF THE PHILIPPINES

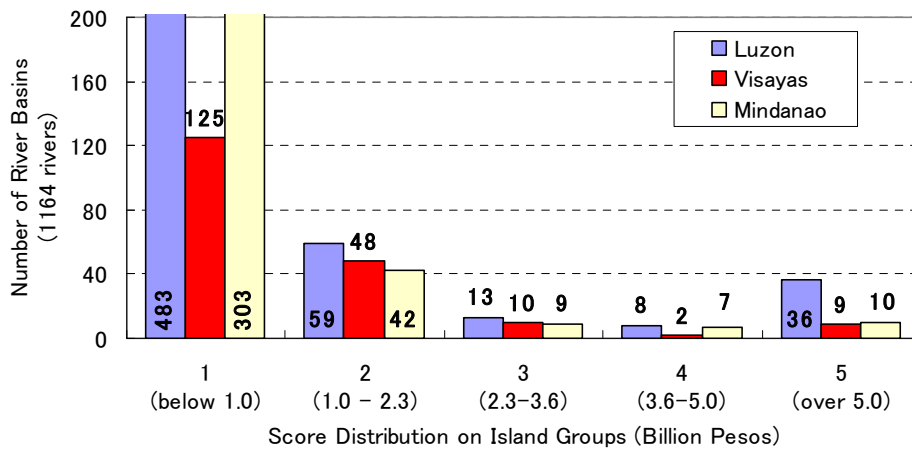
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Fig. C-1-21

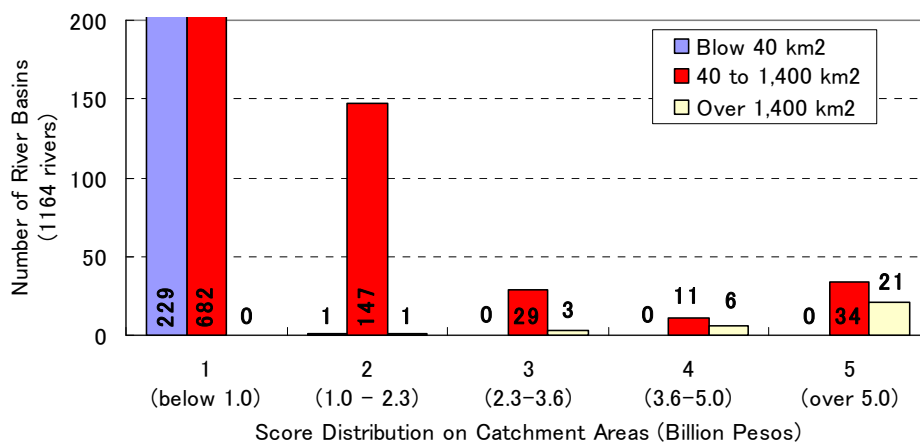
Score Distribution on Population Movement (S3)



(i) Distribution and Scoring Method



(ii) Island Groups



(iii) Catchment Areas

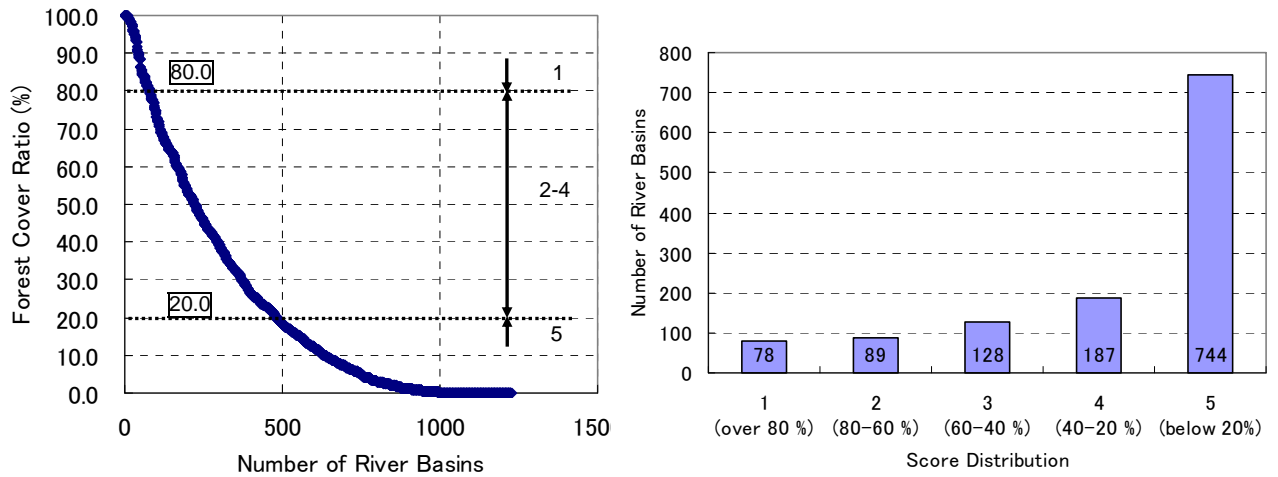
Note) The distribution of item (i) is studied based on all relating principal river basins, etc., not using major river basins.

THE STUDY ON THE NATIONWIDE FLOOD RISK ASSESSMENT AND THE FLOOD MITIGATION PLAN FOR THE SELECTED AREAS IN THE REPUBLIC OF THE PHILIPPINES

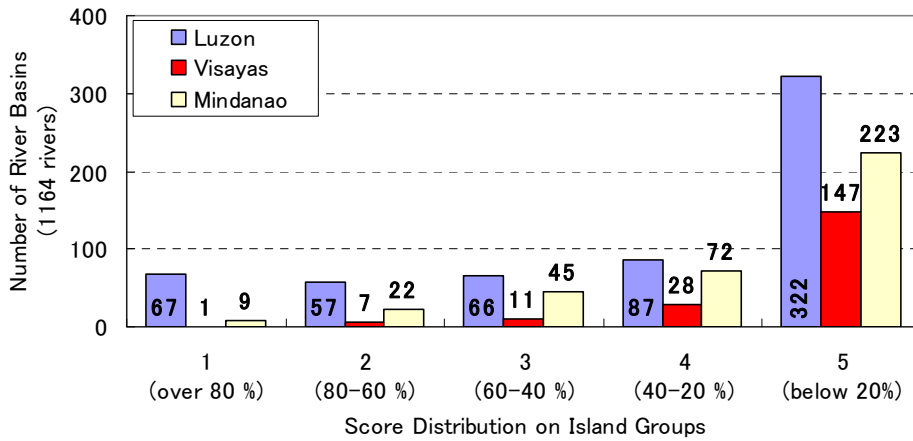
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Fig. C-1-22

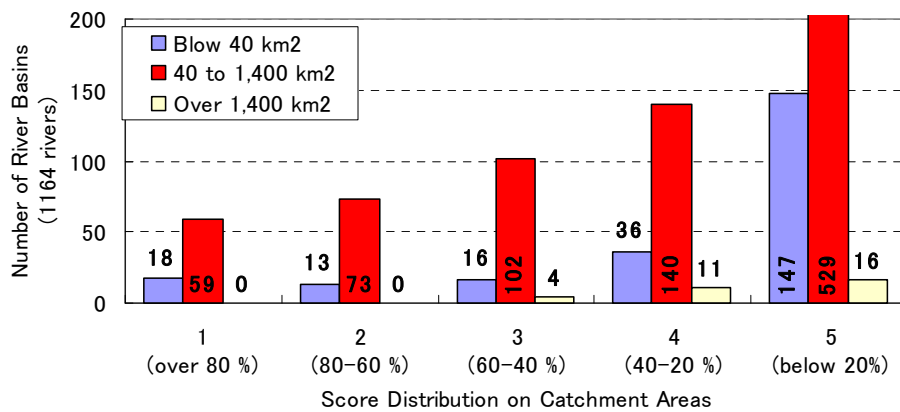
Score Distribution on Production (S4)



(i) Distribution and Scoring Method



(ii) Island Groups



(iii) Catchment Areas

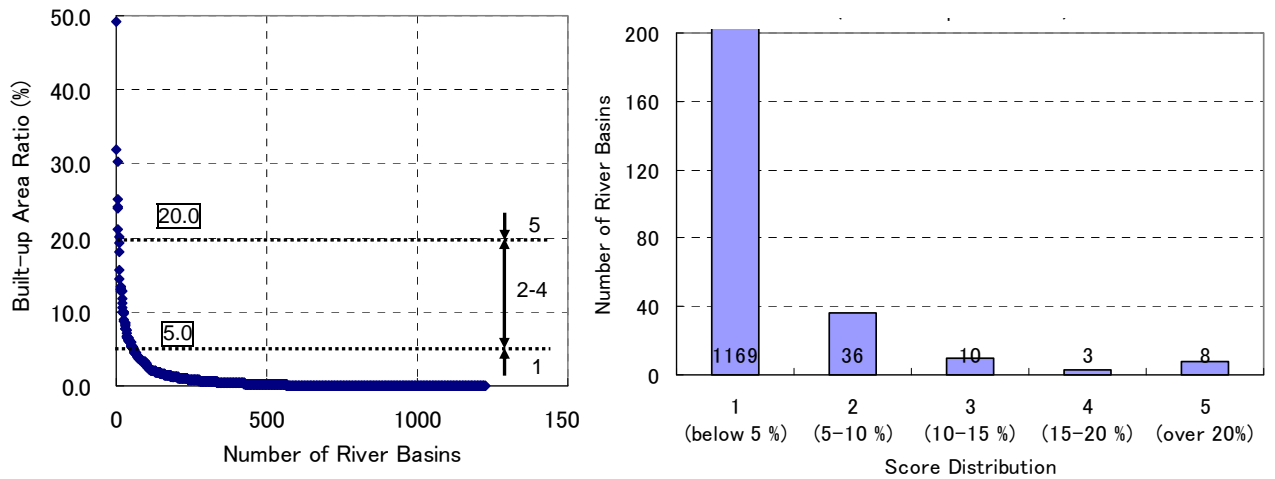
Note) The distribution of item (i) is studied based on all relating principal river basins, etc., not using major river basins.

THE STUDY ON THE NATIONWIDE FLOOD RISK ASSESSMENT AND THE FLOOD MITIGATION PLAN FOR THE SELECTED AREAS IN THE REPUBLIC OF THE PHILIPPINES

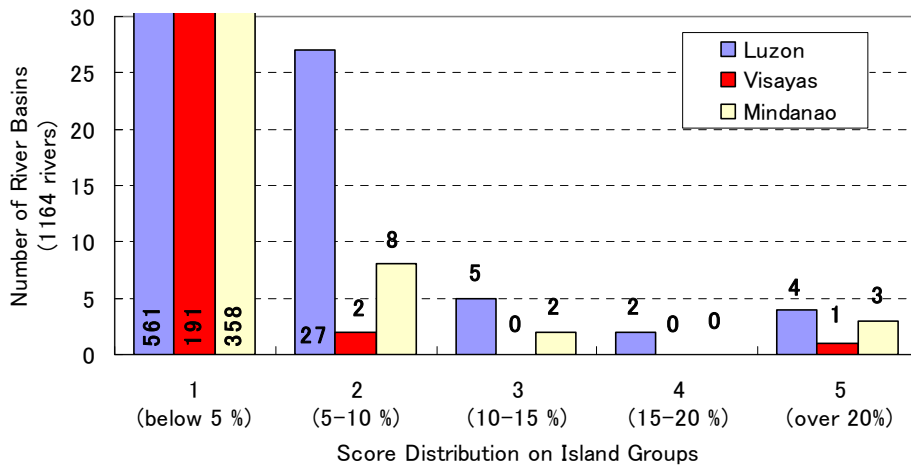
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Fig. C-1-23

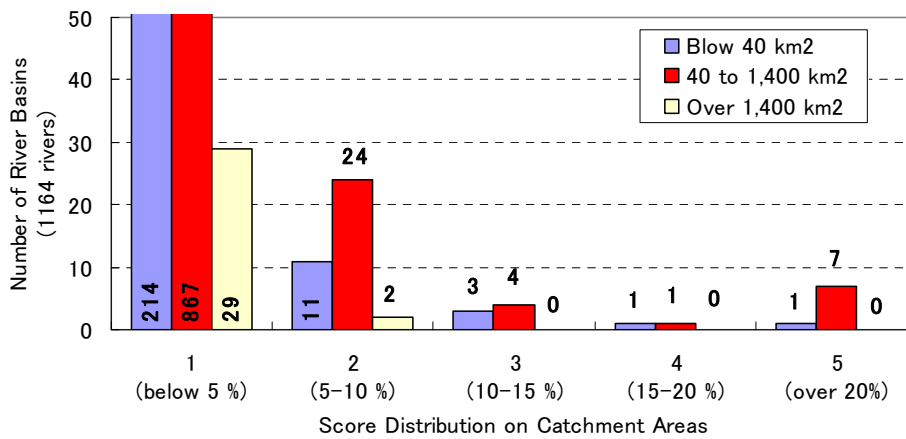
Score Distribution on Forest Cover Ratio (S5)



(i) Distribution and Scoring Method



(ii) Island Groups



(iii) Catchment Areas

Note) The distribution of item (i) is studied based on all relating principal river basins, etc., not using major river basins.

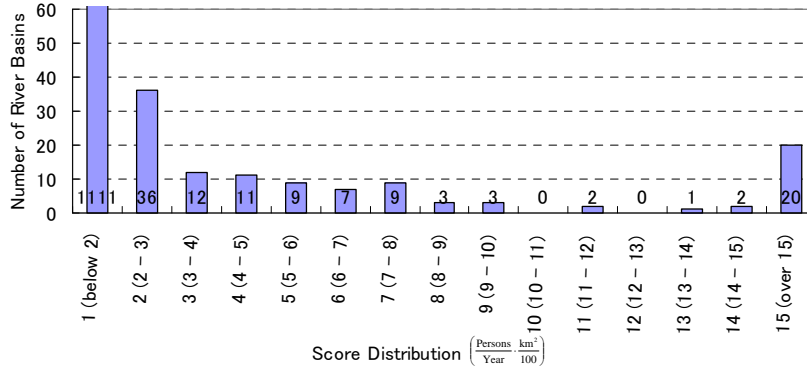
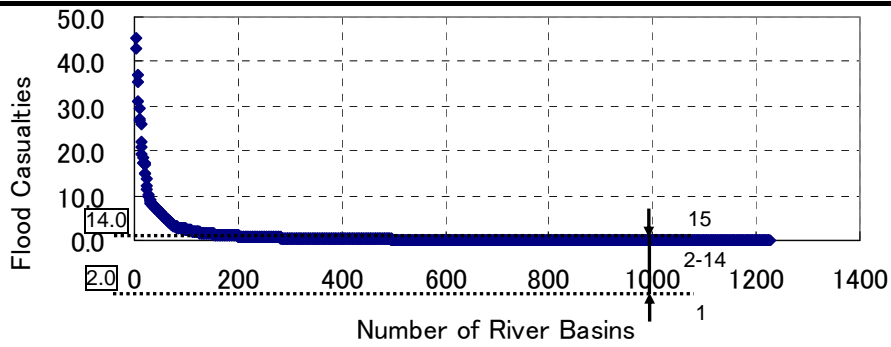
THE STUDY ON THE NATIONWIDE FLOOD RISK ASSESSMENT AND THE FLOOD MITIGATION PLAN FOR THE SELECTED AREAS IN THE REPUBLIC OF THE PHILIPPINES

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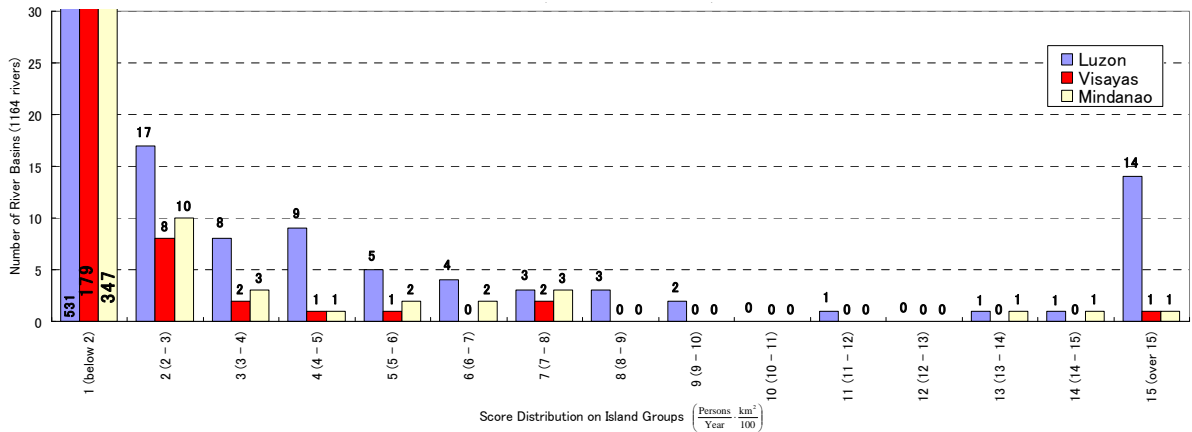
Fig. C-1-24

Score Distribution on Built-up Area Ratio (S6)

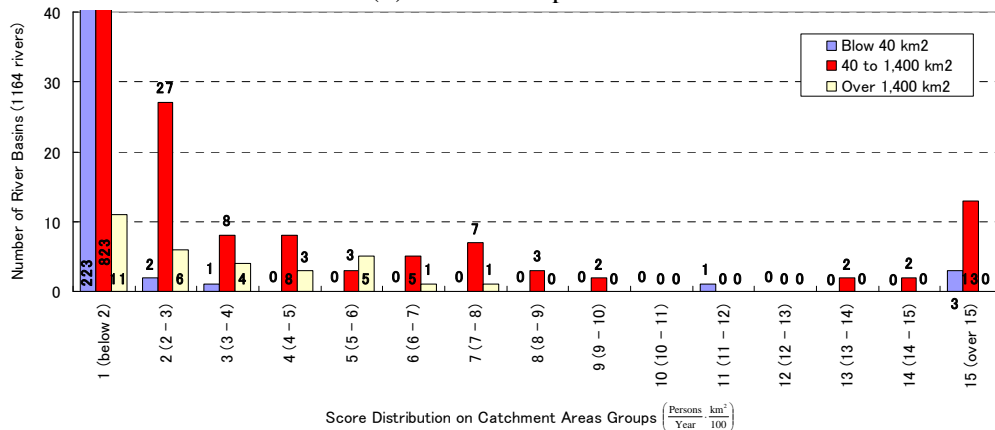




(i) Distribution and Scoring Method



(ii) Island Groups



(iii) Catchment Areas

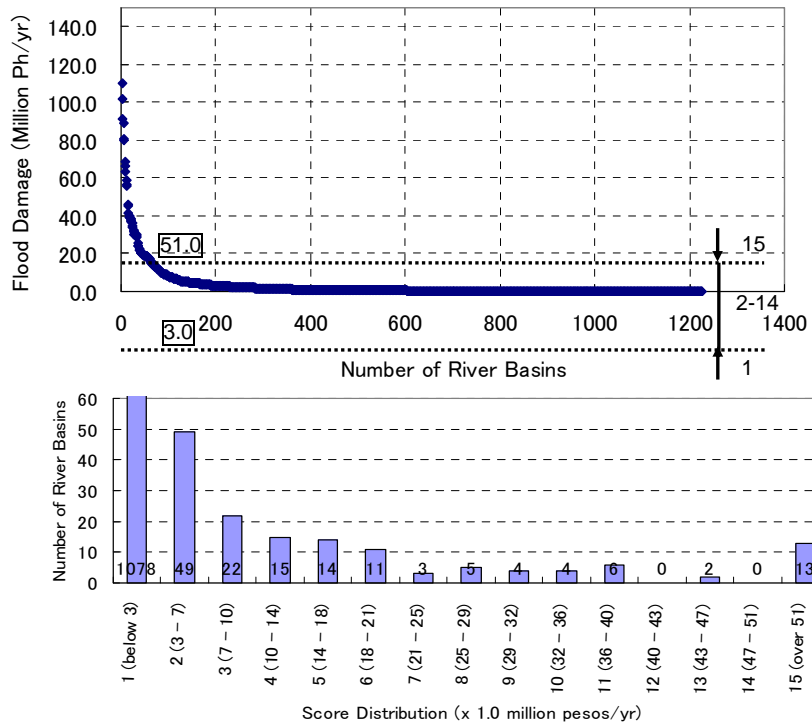
Note) The distribution of item (i) is studied based on all relating principal river basins, etc., not using major river basins.

THE STUDY ON THE NATIONWIDE FLOOD RISK ASSESSMENT AND THE FLOOD MITIGATION PLAN FOR THE SELECTED AREAS IN THE REPUBLIC OF THE PHILIPPINES

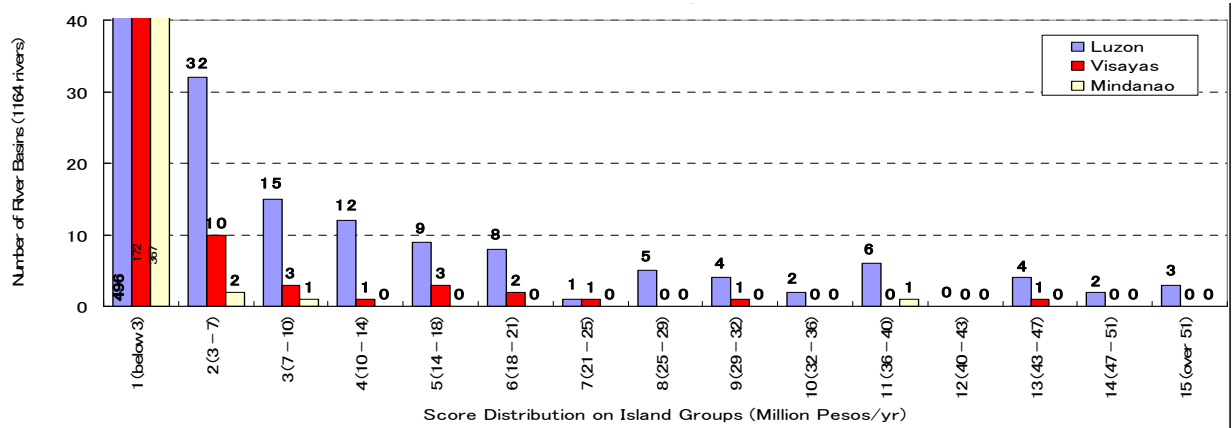
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Fig. C-1-25

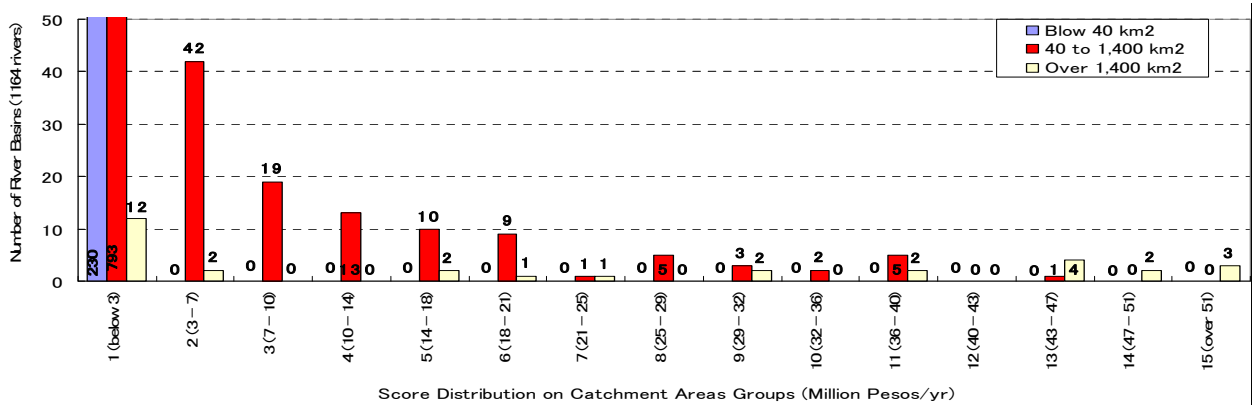
Score Distribution on Flood Casualties (S7)



(i) Distribution and Scoring Method



(ii) Island Groups



(iii) Catchment Areas

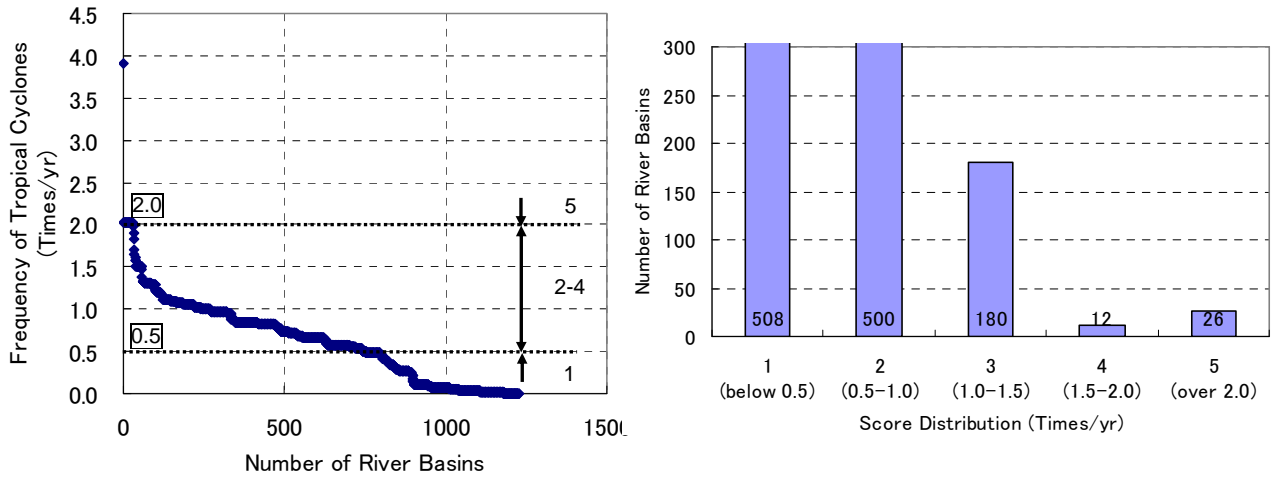
Note) The distribution of item (i) is studied based on all relating principal river basins, etc., not using major river basins.

THE STUDY ON THE NATIONWIDE FLOOD RISK ASSESSMENT AND THE FLOOD MITIGATION PLAN FOR THE SELECTED AREAS IN THE REPUBLIC OF THE PHILIPPINES

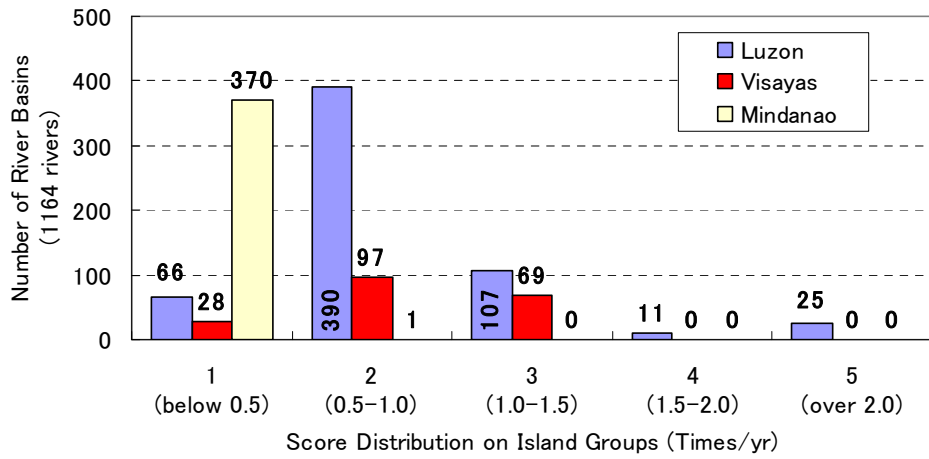
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Fig. C-1-26

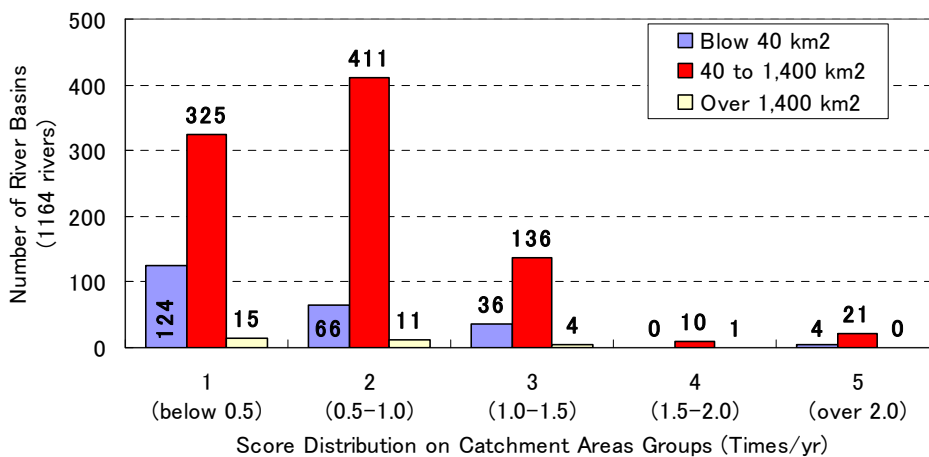
Score Distribution on Flood Damages (S8)



(i) Distribution and Scoring Method



(ii) Island Groups



(iii) Catchment Areas

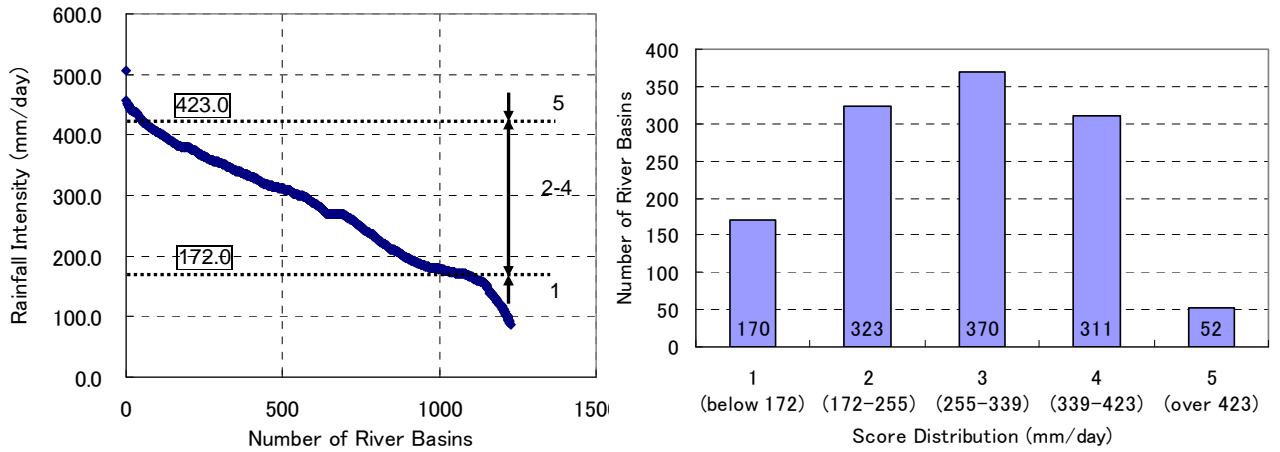
Note) The distribution of item (i) is studied based on all relating principal river basins, etc., not using major river basins.

THE STUDY ON THE NATIONWIDE FLOOD RISK ASSESSMENT AND THE FLOOD MITIGATION PLAN FOR THE SELECTED AREAS IN THE REPUBLIC OF THE PHILIPPINES

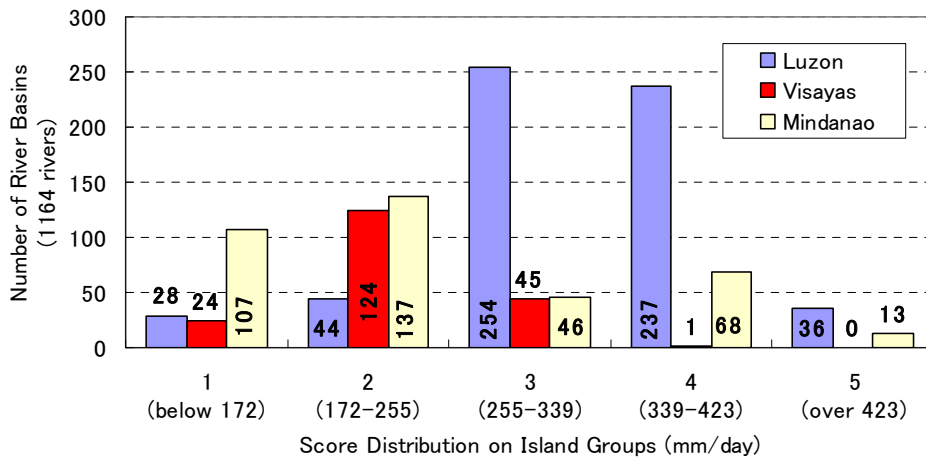
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Fig. C-1-27

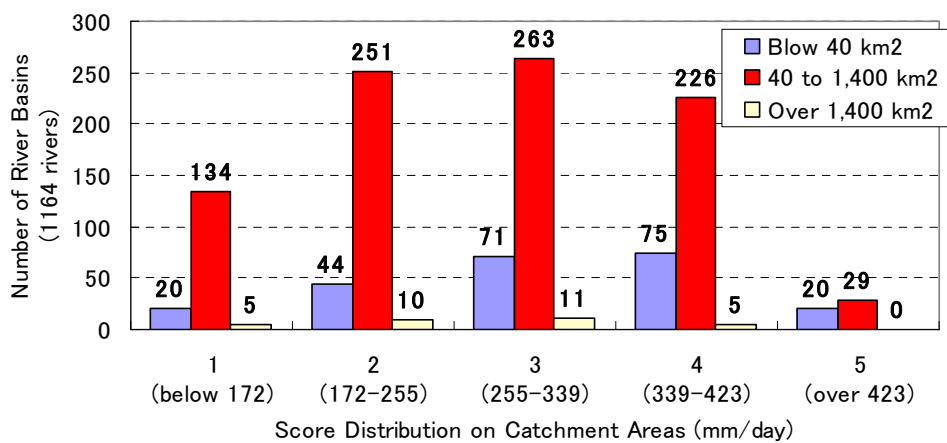
Score Distribution on Frequency of Tropical Cyclones (N1)



(i) Distribution and Scoring Method



(ii) Island Groups



(iii) Catchment Areas

Note) The distribution of item (i) is studied based on all relating principal river basins, etc., not using major river basins.

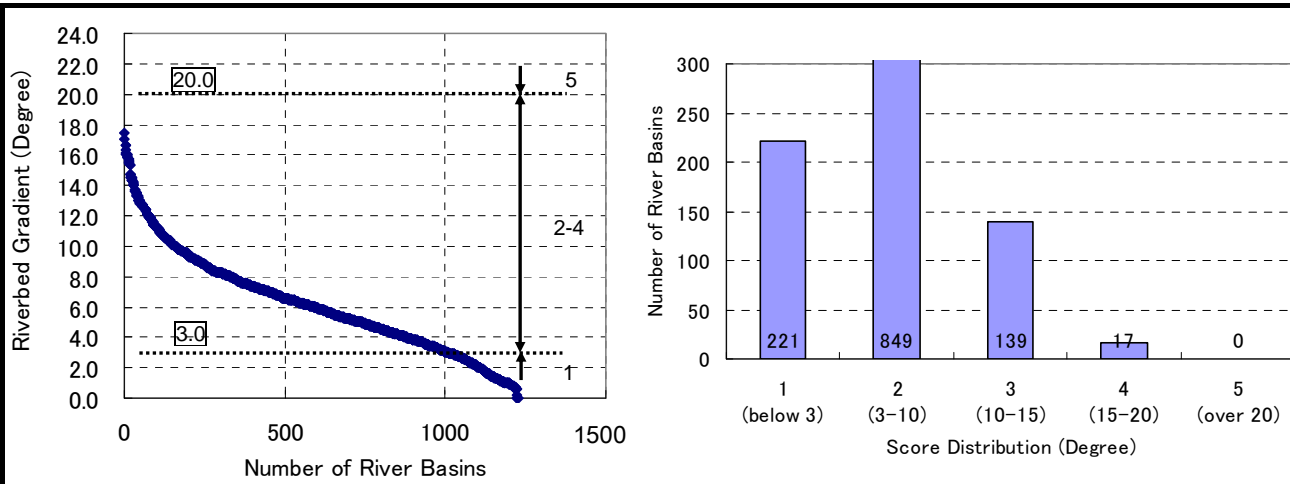
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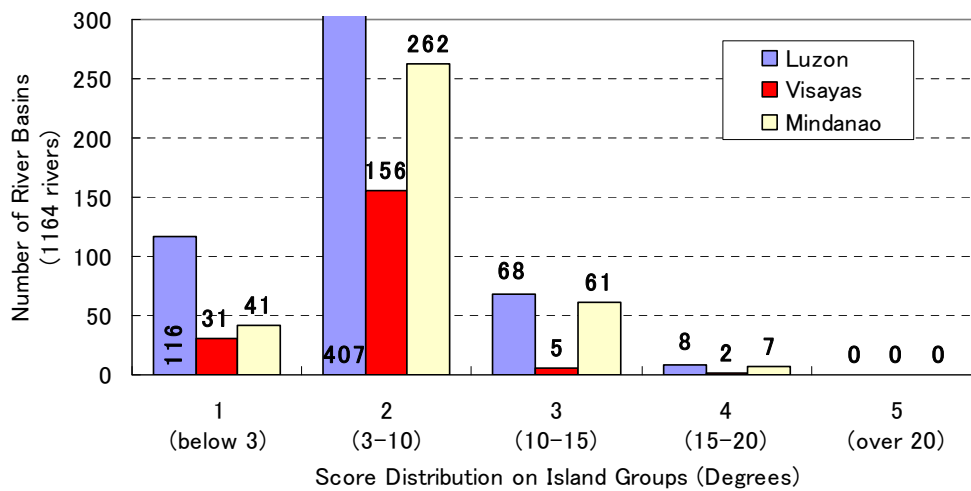
Fig. C-1-28

Score Distribution on Rainfall Intensity (N2)

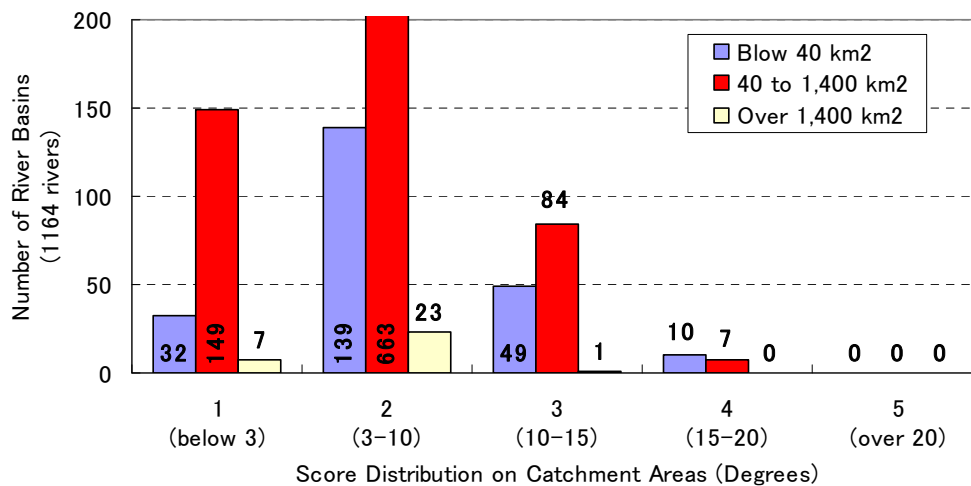




(i) Distribution and Scoring Method



(ii) Island Groups



(iii) Catchment Areas

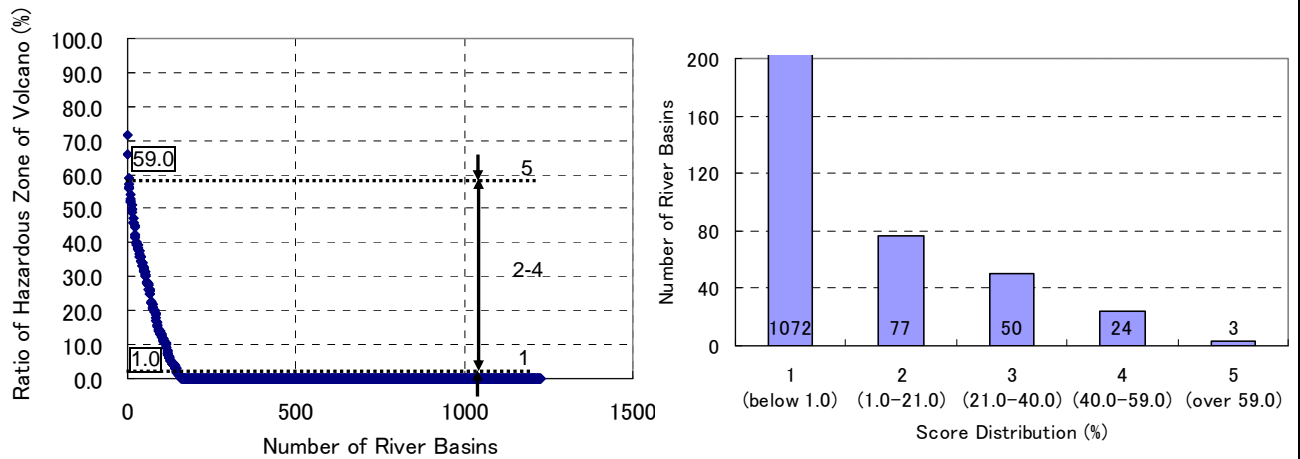
Note) The distribution of item (i) is studied based on all relating principal river basins, etc., not using major river basins.

THE STUDY ON THE NATIONWIDE FLOOD RISK ASSESSMENT AND THE FLOOD MITIGATION PLAN FOR THE SELECTED AREAS IN THE REPUBLIC OF THE PHILIPPINES

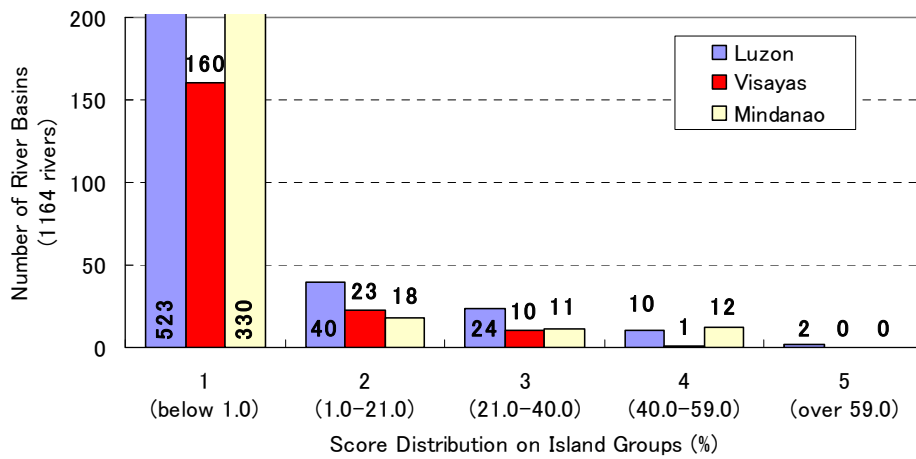
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Fig. C-1-29

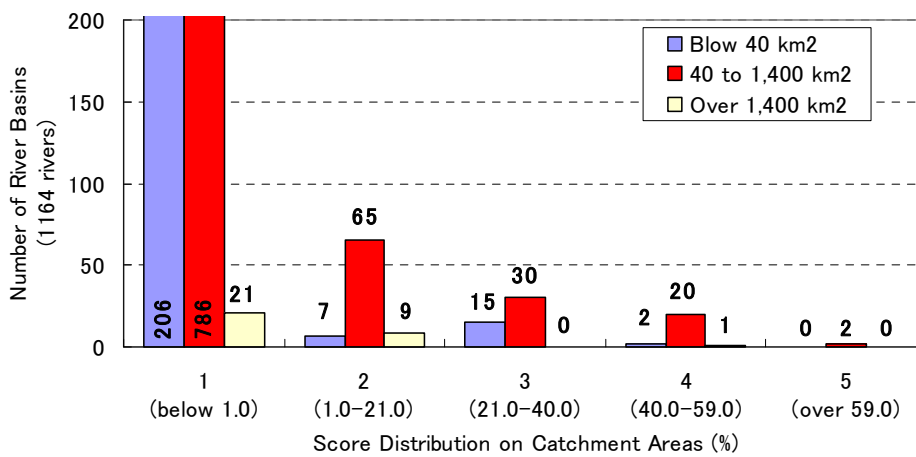
Score Distribution on Riverbed Gradient (N3)



(i) Distribution of Ratio and Scoring Method



(ii) Island Groups



(iii) Catchment Areas

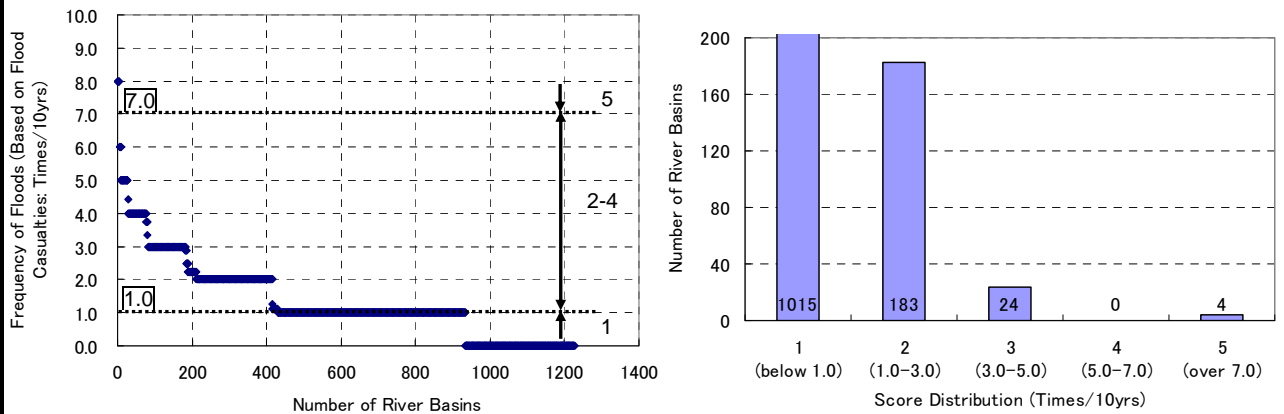
Note) The distribution of item (i) is studied based on all relating principal river basins, etc., not using major river basins.

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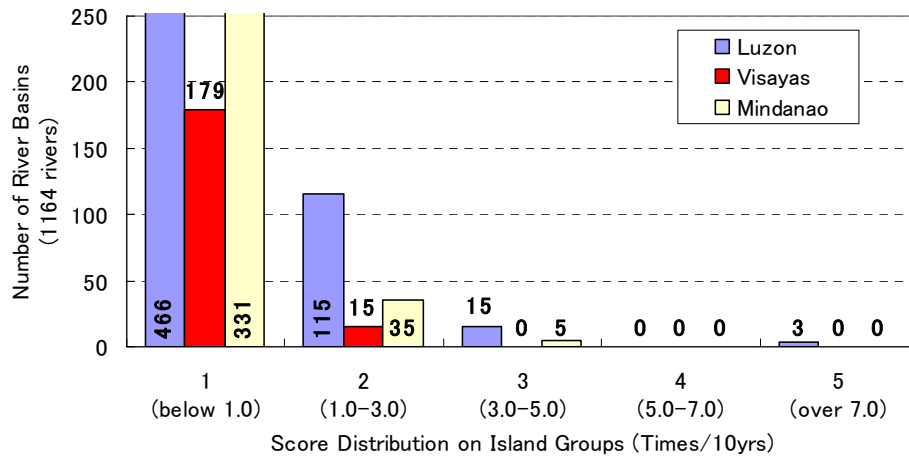
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Fig. C-1-30

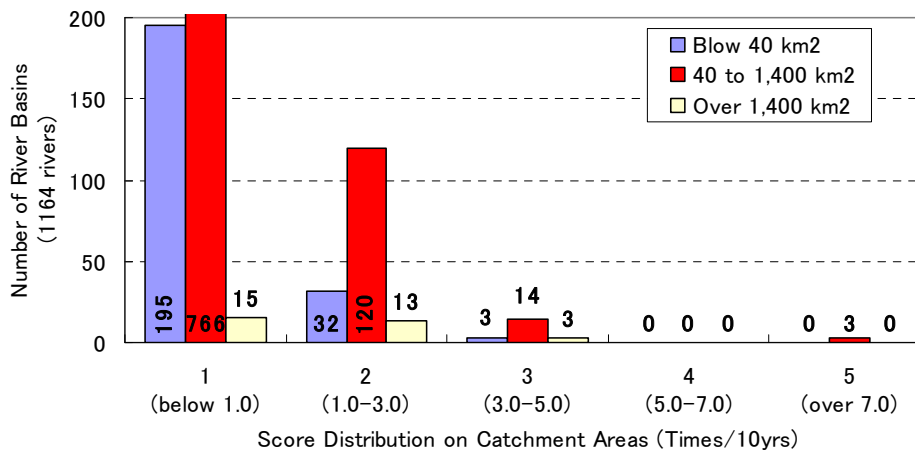
Score Distribution on Ration of Hazards Zone of Volcano (N4)



(i) Distribution and Scoring Method



(ii) Island Groups



(iii) Catchment Areas

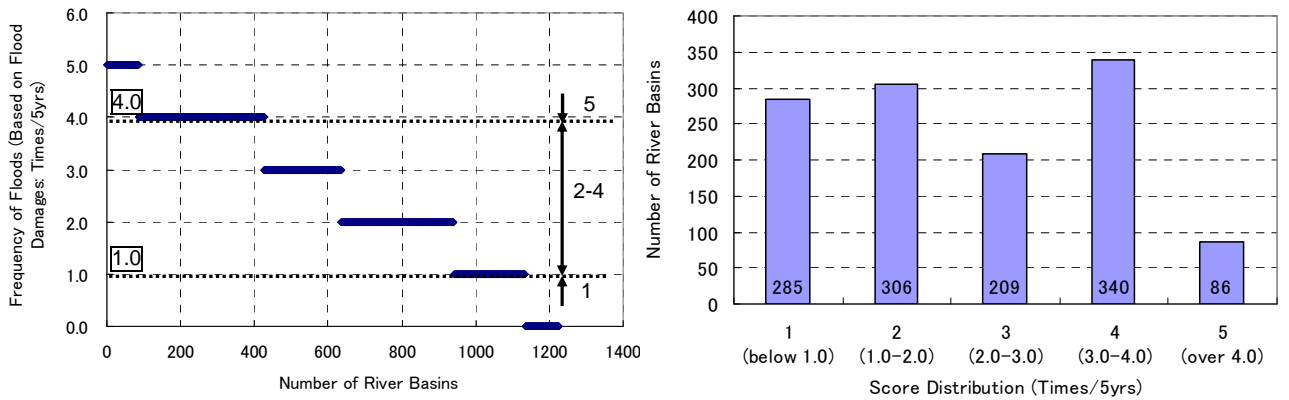
Note) The distribution of item (i) is studied based on all relating principal river basins, etc., not using major river basins.

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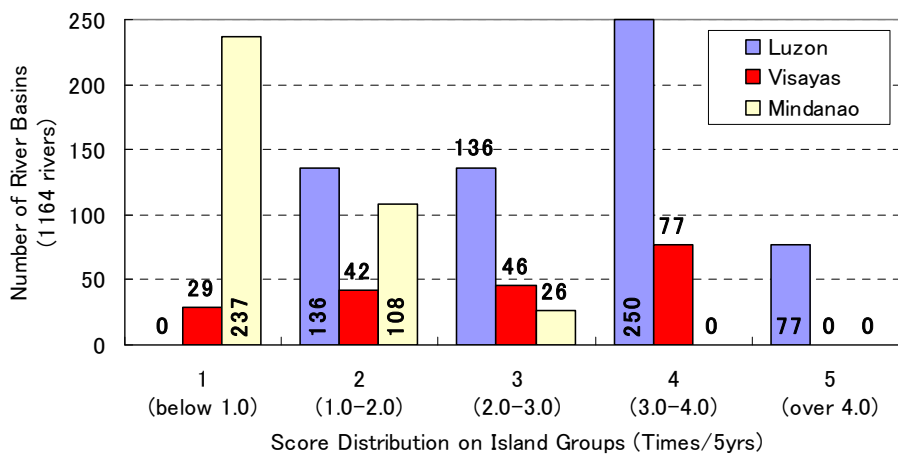
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Fig. C-1-31 (1/2)

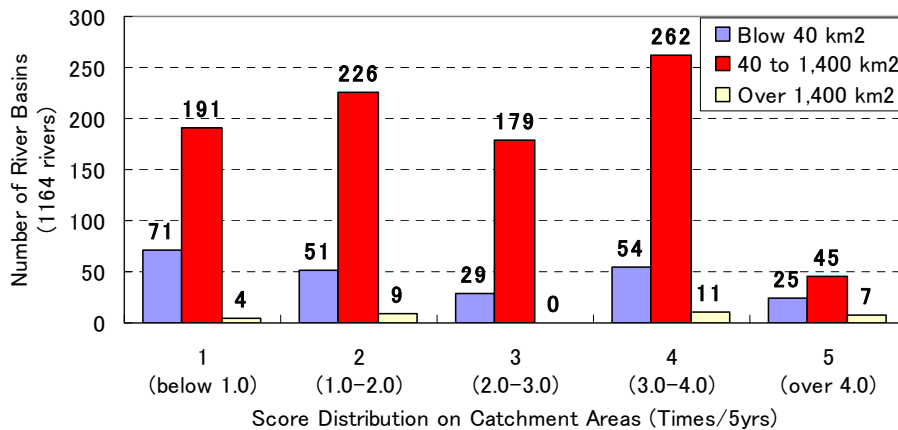
Score Distribution on Flood Frequency (Based on Flood Casualties: N5-C)



(i) Distribution and Scoring Method



(ii) Island Groups



(iii) Catchment Areas

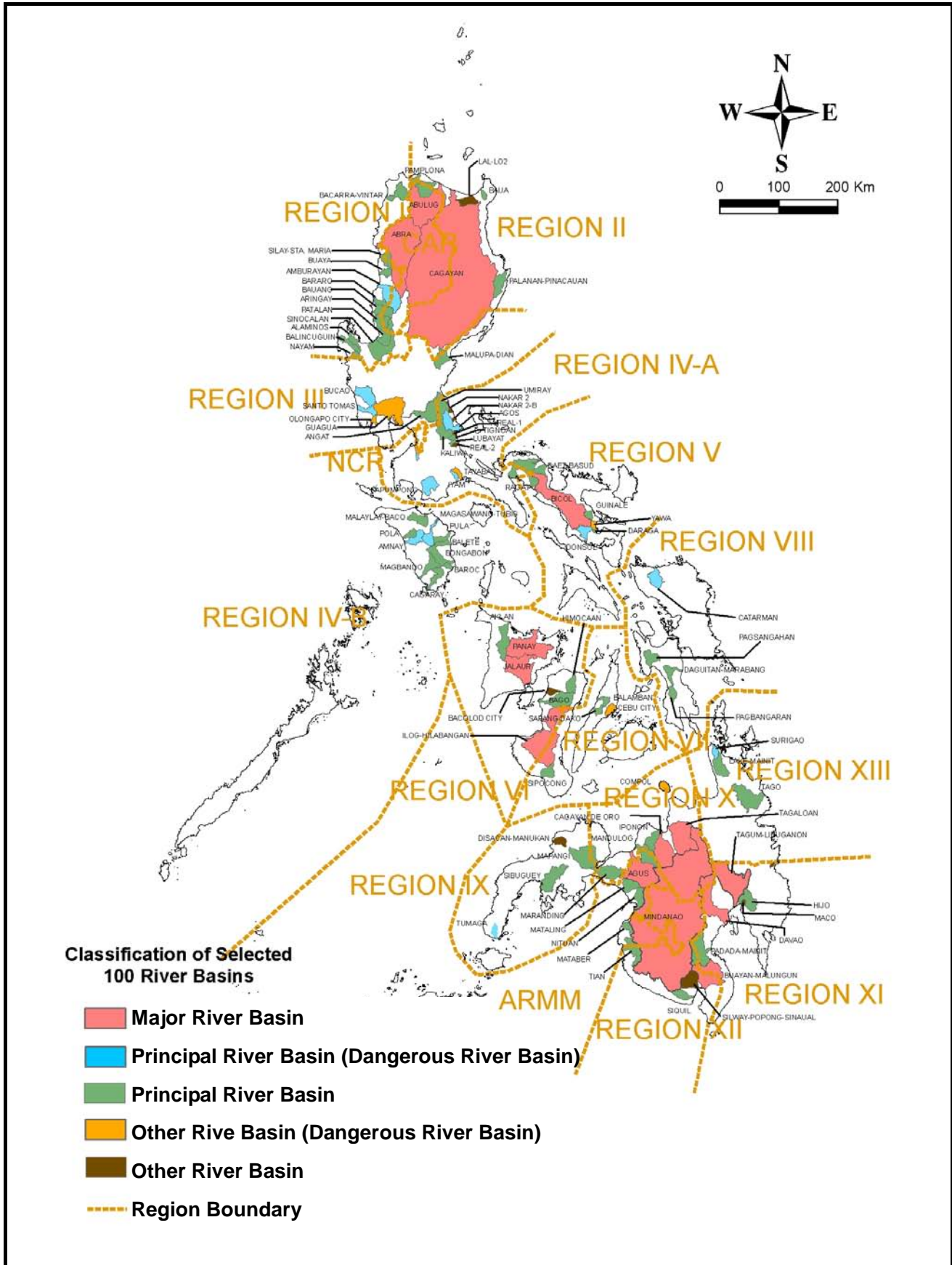
Note) The distribution of item (i) is studied based on all relating principal river basins, etc., not using major river basins.

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Fig. C-1-31 (2/2)

Score Distribution on Flood Frequency (Based on Flood Damages: N5-D)



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**Fig. C-1-32**

**Selected 100 River Basins**

## Simulation result - Bicol river basin



THE STUDY ON THE NATIONWIDE FLOOD RISK ASSESSMENT AND THE FLOOD MITIGATION PLAN FOR THE SELECTED AREAS IN THE REPUBLIC OF THE PHILIPPINES

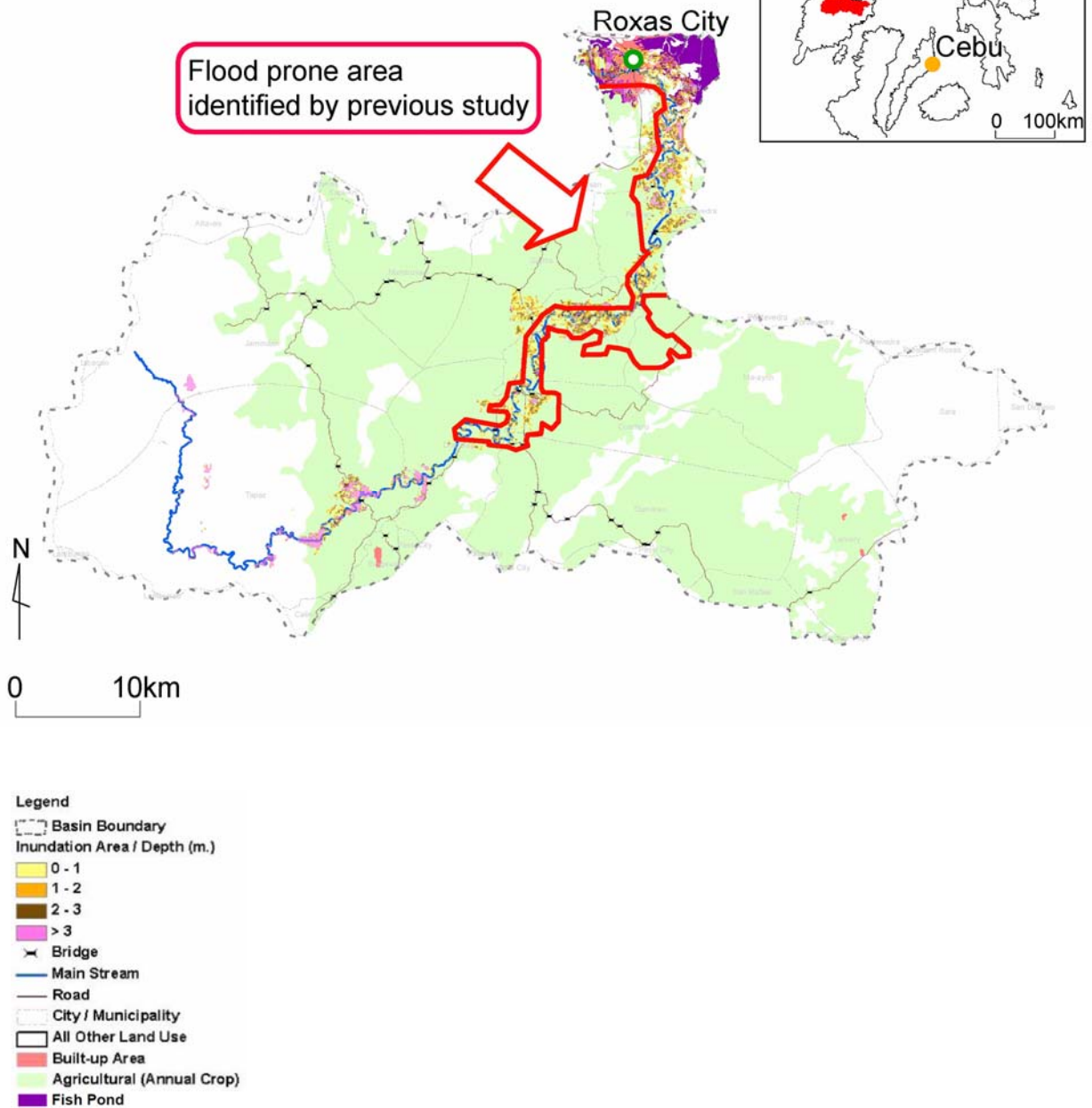
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Fig. C-2-1

Flood Area Map of Bicol River Basin



## Simulation result - Panay river basin



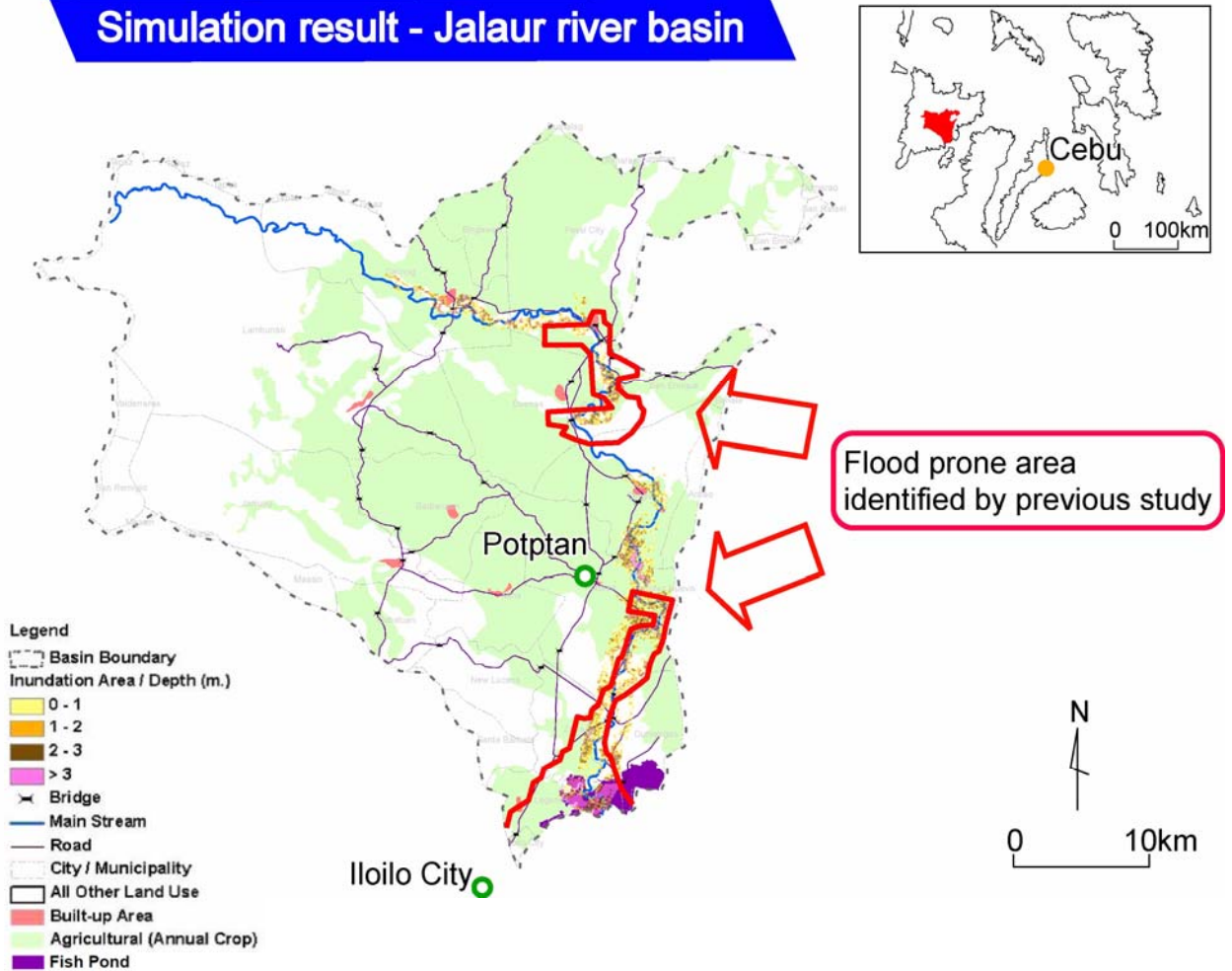
THE STUDY ON THE NATIONWIDE FLOOD RISK ASSESSMENT AND THE FLOOD MITIGATION PLAN FOR THE SELECTED AREAS IN THE REPUBLIC OF THE PHILIPPINES

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Fig. C-2-2

Flood Area Map of Panay River Basin

## Simulation result - Jalaur river basin

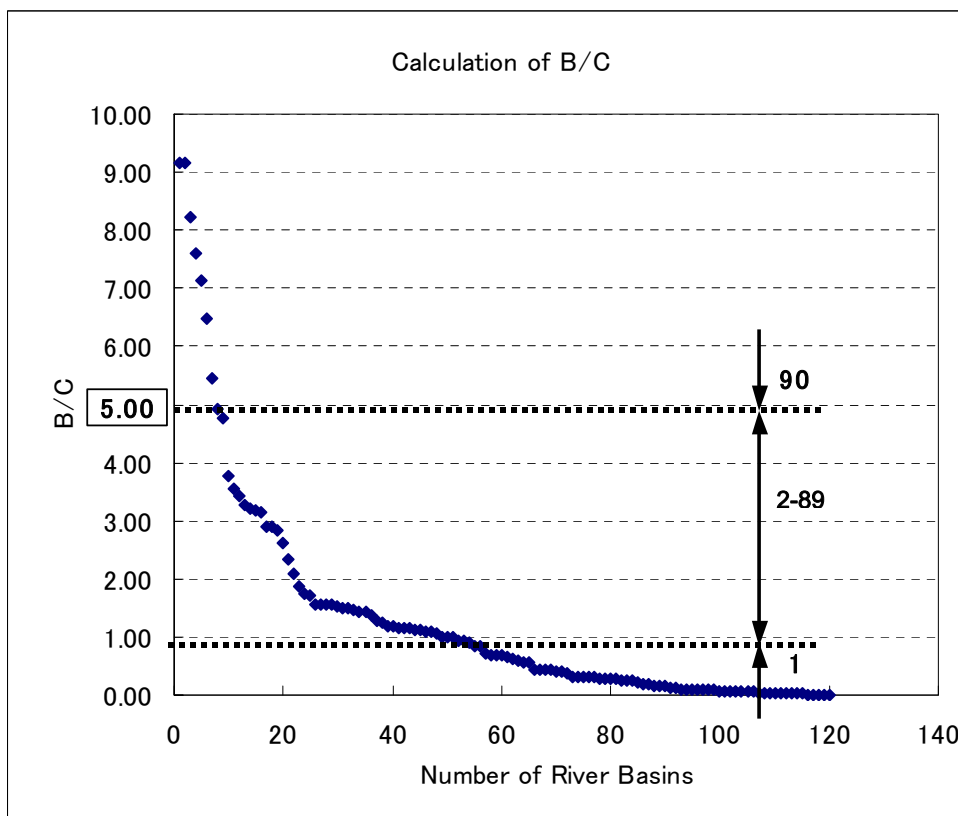
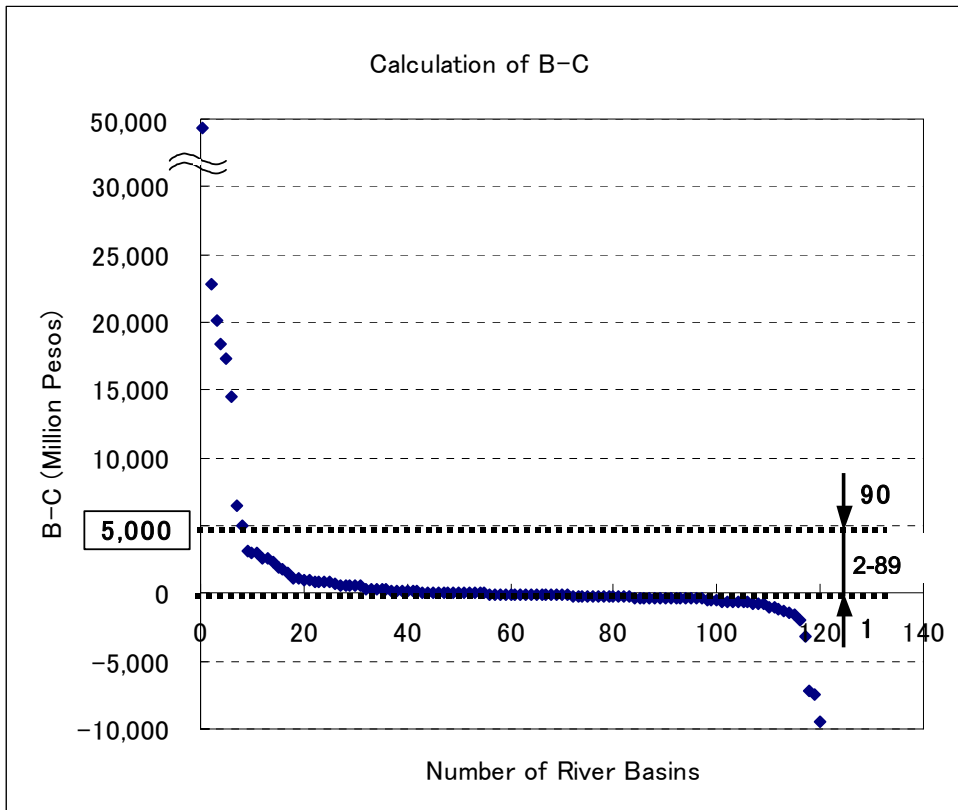


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Fig. C-2-3

Flood Area Map of Jalaur River Basin

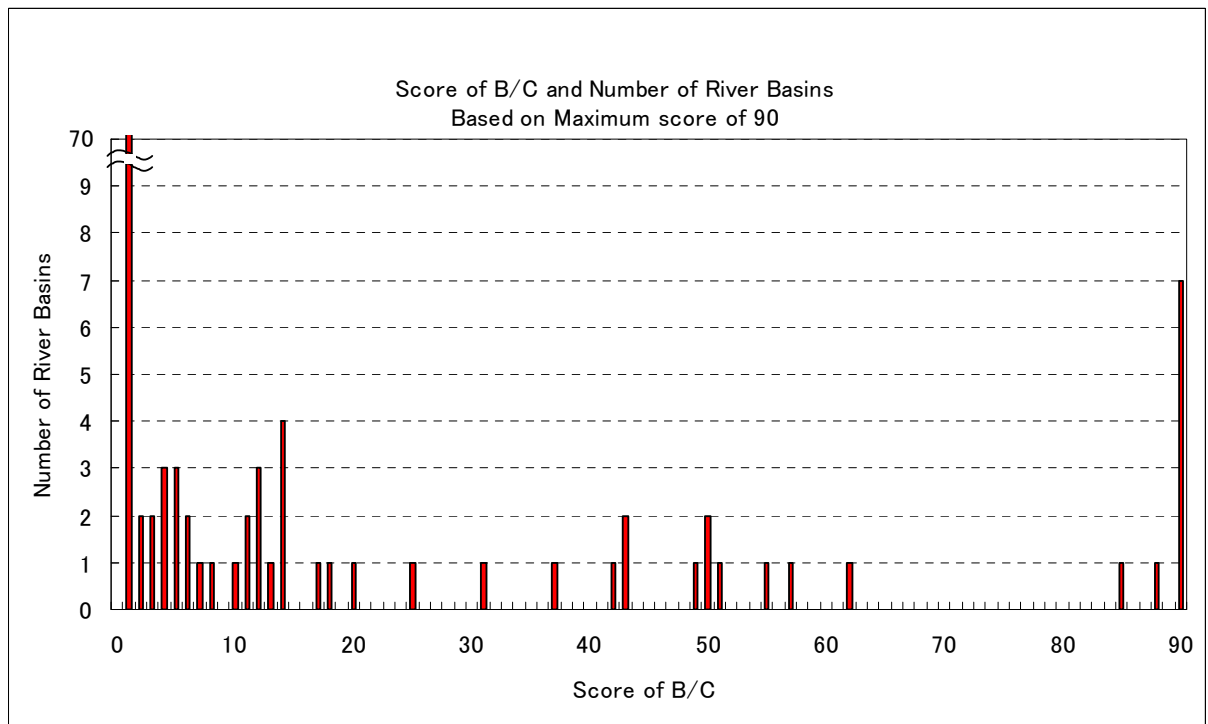
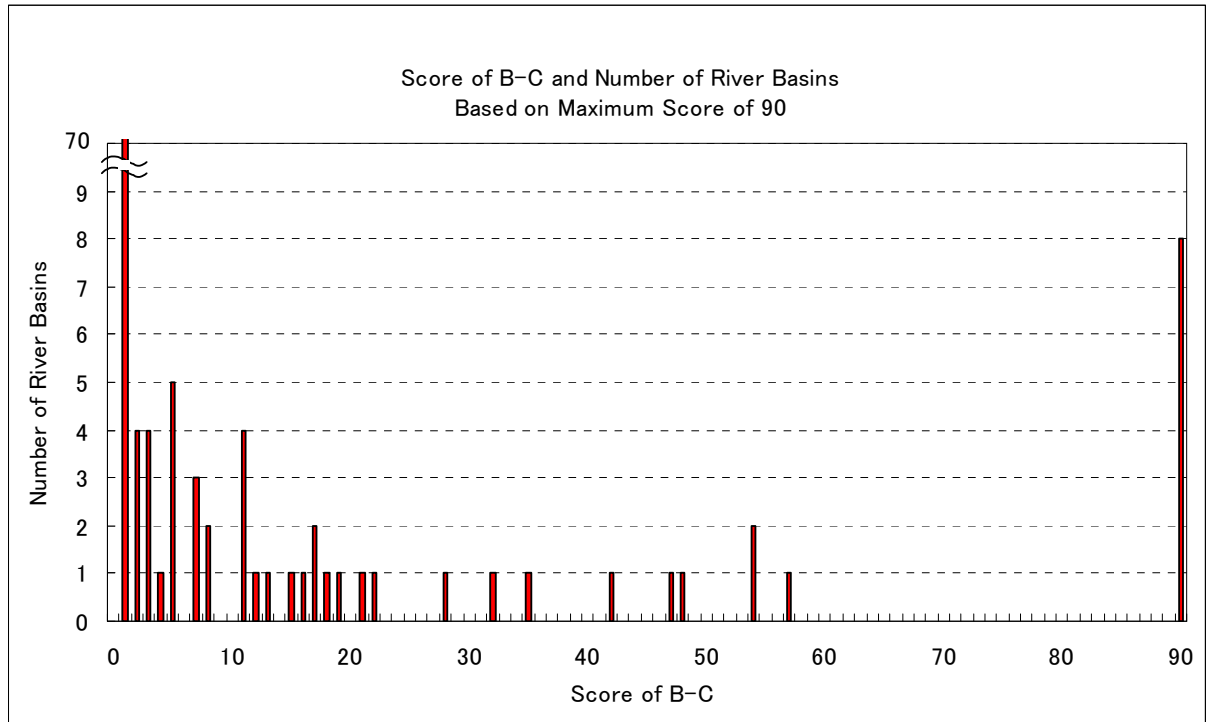


THE STUDY ON THE NATIONWIDE FLOOD RISK  
ASSESSMENT AND THE FLOOD MITIGATION  
PLAN FOR THE SELECTED AREAS  
IN THE REPUBLIC OF THE PHILIPPINES

JAPAN INTERNATIONAL COOPERATION AGENCY

Fig. C-2-4

Calculation of (B)-(C) and (B)/(C)

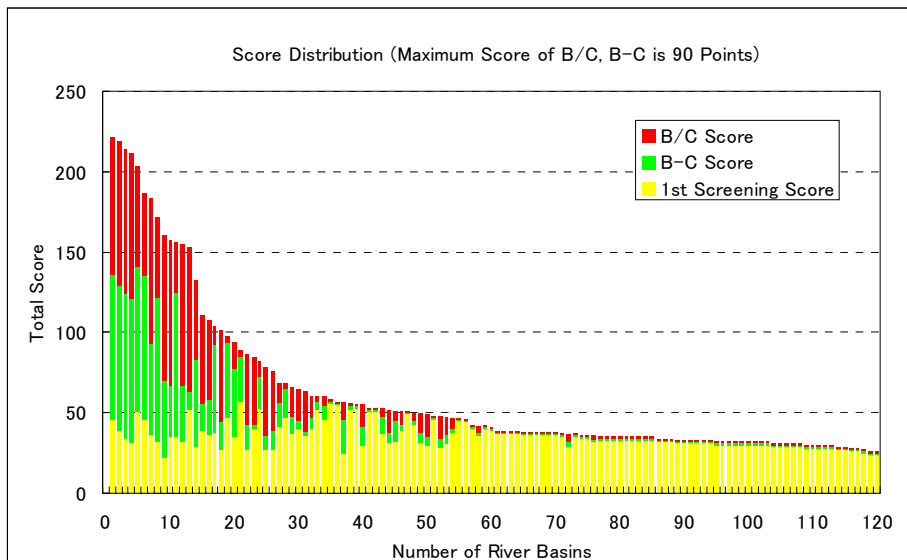
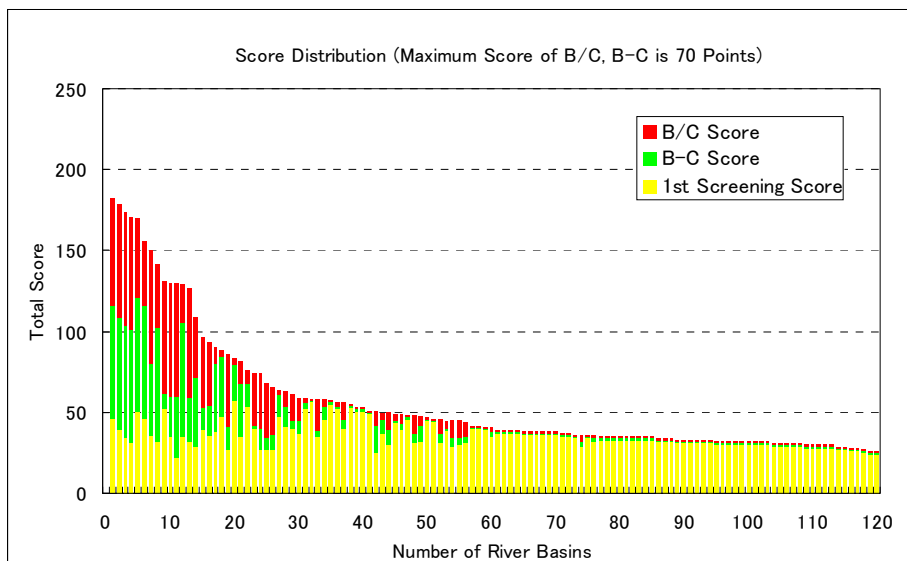
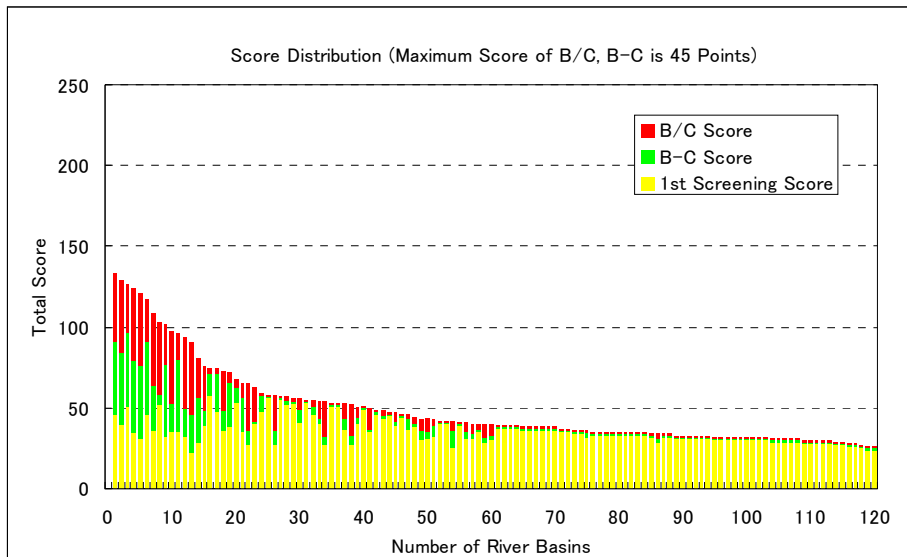


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**Fig. C-2-5**

**Allocation of Score of B-C and B/C  
(Maximum Score is 90 Points)**

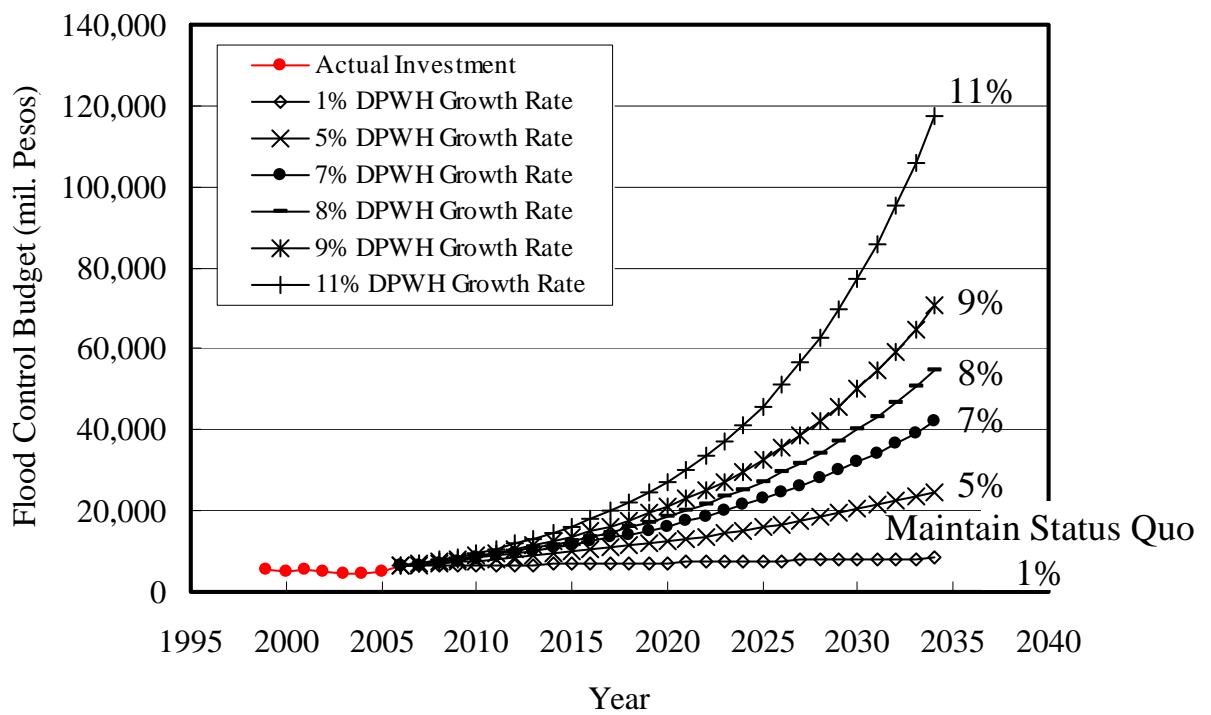


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Fig. C-2-6

Score Sensitivity



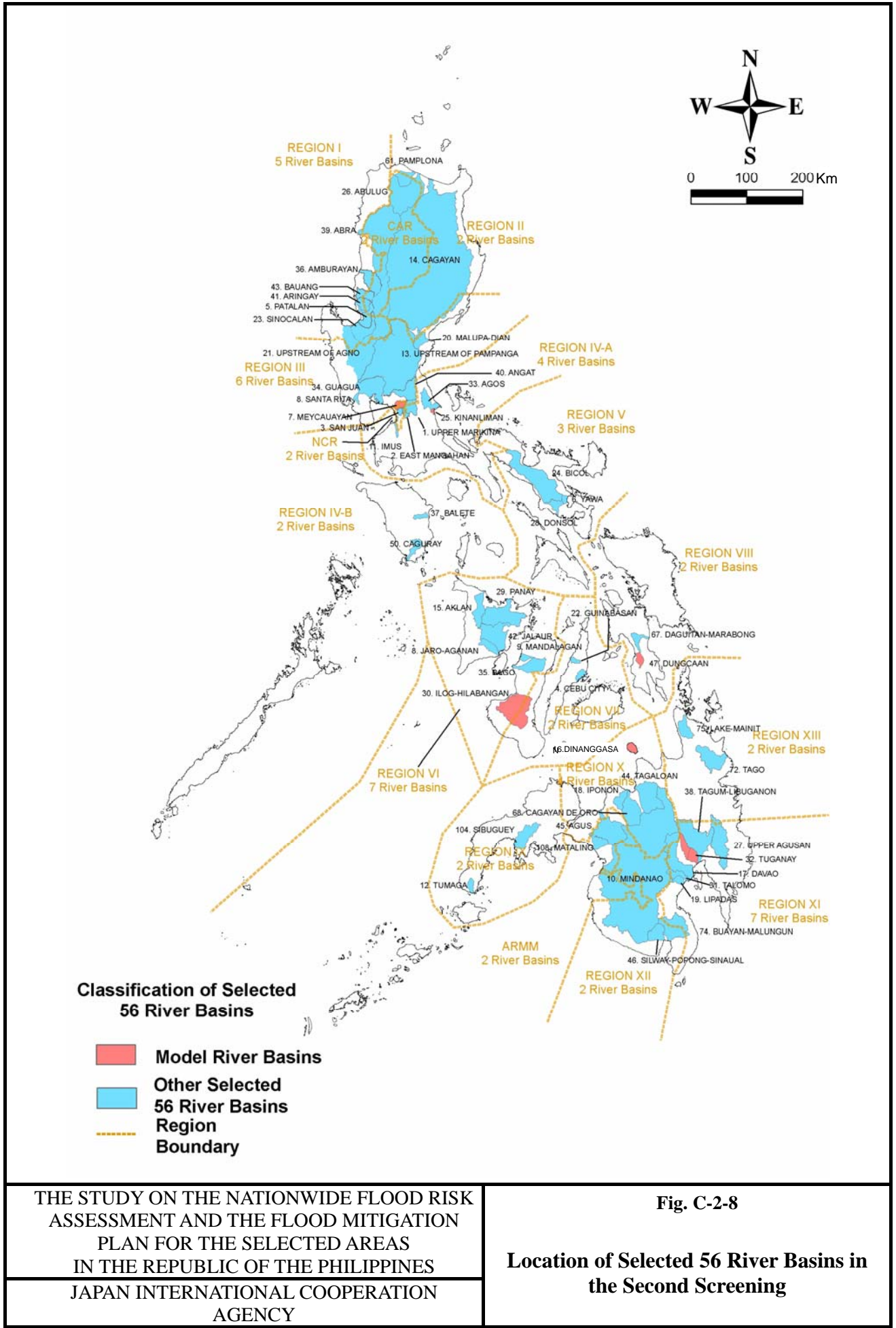
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Fig. C-2-7

Expected Investment Amount





**Fig. C-2-8**

**Location of Selected 56 River Basins in the Second Screening**

Fund	Prioritization	River name	Region	Basin Area (km <sup>2</sup> )	Project Cost (mil. Pesos)	Project Term (year, phase)	Luzon Visayas Mindanao	Classification	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034				
Foreign	1	EAST MANGAHAN	IV-A, NCR	84	3,161	5yrs	L	P(D)	D/D	D/D	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst					
	2	MEYCAUAYAN	III, NCR	201	7,180	5yrs x 2phs	L	O(D)	F/S	D/D	D/D	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst				
	3	PANAY/MAMBUSAO	VI	2,311	6,068	5yrs x 2phs	V	M		D/D	D/D	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst		
	4	MINDANAO	XII, ARMM	20,673	15,870	5yrs x 4phs	M	M			F/S	D/D	D/D	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst		
	5	NANGALISAN/BAGGAO-PARED(CAGAYAN)	II, CAR	27,743	52,826	5yrs x 4phs	L	M				D/D	D/D	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst		
	6	UPSTREAM of AGNO(include AMBAYAWAN, BANILA)	I	5,722	11,850	5yrs x 3phs	L	P(D)				F/S	D/D	D/D	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst		
	7	ILOG-HILABANGAN	VI, VII	2,162	1,638	5yrs	V	M					F/S	D/D	D/D	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst		
	8	DAVAO	XI	1,992	1,369	5yrs	M	M					F/S	D/D	D/D	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst		
	9	KABILUGAN/VELASCO/BATO LAKE(BICOL)	V	2,999	12,095	5yrs x 4phs	L	M				D/D	D/D	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	
	10	GUAGUA	III	1,605	31,715	5yrs x 4phs	L	O(D)				F/S	D/D	D/D	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	
	11	CEBU/MANDAWA	VII	241	2,368	5yrs	V	O(D)					F/S	D/D	D/D	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	
	12	UPPER AGUSAN	XI	1,745	2,013	5yrs	M	P(D)					F/S	D/D	D/D	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	
	13	UPPER MARIKINA	NCR, IV-A	515	13,469	5yrs x 4phs	L	P(D)					D/D	D/D	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	
	14	SAN JUAN	NCR	90	2,260	5yrs	L	P(D)						D/D	D/D	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	
	15	JALAU	VI	1,534	3,249	5yrs	V	M							F/S	D/D	D/D	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	
	16	TAGUM-LIBUGANON	XI	2,434	3,517	5yrs	M	M							F/S	D/D	D/D	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	
	17	PATALAN/CAYANGA/ANGALACAN	I, CAR	656	2,318	5yrs	L	P							F/S	D/D	D/D	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	
	18	IMUS	IV-A	112	2,377	5yrs	L	P(D)								F/S	D/D	D/D	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	
	19	TUGANAY	XI	747	2,563	5yrs	M	P(D)								F/S	D/D	D/D	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst
	20	UPSTREAM of PAMPANGA(include RIO CHOCO)	III	8,122	21,856	5yrs x 4phs	L	P(D)				F/S	D/D	D/D	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	
	21	SINOCALAN/MAROSOY(DAGUPAN)	I, CAR	1,023	3,890	5yrs	L	P														F/S	D/D	D/D	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	
	22	TAGO	XIII	1,370	2,169	5yrs	M	P														F/S	D/D	D/D	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst
	23	ABULUG	CAR, II	2,766	2,989	5yrs	L	M														F/S	D/D	D/D	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst
	24	ABRA	I, CAR	4,951	2,984	5yrs	L	M															F/S	D/D	D/D	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst
	25	SIBUGUEY	IX	994	2,493	5yrs	M	P															F/S	D/D	D/D	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst
	26	ANGAT	III	917	9,014	5yrs x 3phs	L	P									F/S	D/D	D/D	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	
Local	1	YAWA/BASUD/QUIRANGAY(LEGAZI CITY)	V	126	475	5yrs	L	O(D)	F/S	D/D	D/D	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst		
	2	KINANLIMAN(REAL-1)	IV-A	10	32	5yrs	L	O		F/S	D/D	D/D	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	
	3	MANDALAGAN(BACOLOD CITY)	VI	187	214	5yrs	V	O			F/S	D/D	D/D	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst
	4	TAGOLOAN	X	1,762	980	5yrs	M	M			F/S	D/D	D/D	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst
	5	AGUS/BUAYAN	ARMM, X	1,898	681	5yrs	M	M				F/S	D/D	D/D	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst
	6	AGOS	IV-A	483	680	5yrs	L	P(D)				D/D	D/D	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst
	7	SANTA RITA/KALAKLAN(OLONGAPO CITY)	III	102	479	5yrs	L	O(D)				F/S	D/D	D/D	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	
	8	AKLAN	VI	1,010	366	5yrs	V	P					F/S	D/D	D/D	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	
	9	BUAYAN-MALUNGUN	XI, XII	1,400	527	5yrs	M	M				F/S	D/D	D/D	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst
	10	TUMAGA	IX	255	483	5yrs	M	P(D)				F/S	D/D	D/D	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	
	11	MALUPA-DIAN(AGUANG)	III	666	540	5yrs	L	P				F/S	D/D	D/D	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst
	12	DONSOL/MANLATO	V	413	82	5yrs	L	P(D)					F/S	D/D	D/D	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	
	13	GUINABASAN	VII	131	433	5yrs	V	P(D)					F/S	D/D	D/D	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	
	14	DINAGGASAN(CATARMAN-IS)	X	29	117	5yrs	M	O(D)					F/S	D/D	D/D	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	
	15	IPONAN	X	412	357	5yrs	M	P								F/S	D/D	D/D	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	
	16	AMBURAYAN	I, CAR	1,307	676	5yrs	L	P(D)					F/S	D/D	D/D	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	
	17	BALETE	IV-B	132	259	5yrs	L	P								F/S	D/D	D/D	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	
	18	BAGO	VI	868	595	5yrs	V	P									F/S	D/D	D/D	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	Cnst	
	19	LIPADAS	XI	163	198	5yrs	M	P(D)					F/S	D/D																								



