Appendix 12-4 Long Distance Facilities (4/5)

		ľ												
		-						Keduir	Required Facilities	ines				
Section	Supporting			Pha	Phase A (1998)	98)	:	Phase	Phase B (2004)	4)		Phas	Phase C (2010)	10)
		Baced	Expan.	Replace Total	Total		Expan. R	Replace Total	Fotal		Expan.	Replace Total	Total	
		2M	2M	2M	2M	System	2M	2M	5M.2	System	2M	2M:	2M	System
Tacloban-Bolongan			0				0		·		6		6	9 DR-34M 1+1
Tacloban-Cebu			7		7	7 DR-150M 1+1	15		22	22	35		57	
			26		76	26 O/F-150M 1+1	31		57 (J/F-150M 2+1	19		118	
			0				0				0			
SOUTH								-					:	
Cebu-Tagbilaran			5		.5	S DR-150M 1+1	11		16		28		44	
Cebu-Siquijor		7	7		7	7 DR-8M 1+1	0		7		0		7	
Cebu-Ca.de Oro			54		\$	54 O/F-600M 1+1	49		103		133		236	
Cebu-Valencia Rly.	DR-140M 2+1	32	31		63		46		109		0	0	0	0 Replacement
											- 17	109	126	126 DR-150M 2+1
Valencia Rly-Dumaguate			11		11	11 O/F-150M 1+1	11	:	22		07		42	
Valencia Rly-Manticao Rly.	DR-140M 2+1	32	31		63		46		109		0	0		0 Replacement
											L I	109		126 DR-150M 2+1
Manticao RlyOzamis	DR-140M 2+1	28	30		58		54	_	112	,	0	0	0	0 Replacement
											71	112	126	126 DR-150M 2+1
Manticao RlyCag.de Oro	DR-140M 1+1	4	2		9		19		25		0	0	0	0 Replacement
											28	25	53	53 DR-150M 1+1
Cag.de Oro-Ozamis			11		11	11 O/F-150M 1+1	9		17 (17 O/F-150M 2+1	69		98	
Cag.de Oro-Mambajao			0				0				11		11	11 DR-34M 1+1
Tacloban-Butuan			49		46	49 O/F-600M 1+1	38		87	٠	66		186	
Cag.de Oro-Butuan			41		41	41 O/F-600M 1+1	32		73		72		145	
Cag.de Oro-Ilagan			20		20	20 O/F-150M1+1	11		31		18		62	
Ilagan-Marawi			5		5	5 DR-34M 1+1	2		7 1	7 DR-34M 2+1	£1		20	
Hagan-Dipolog			5		5	5 DR-34M 1+1	. 6		11 1	11 DR-34M 2+1	6		20	
Ozamis-New Pagadian Rly.	DR-140M 2+1	26	27		53		38		91		0	0	0	0 Replacement
											I	16	35	92 DR-150M 2+1
New Pagadian RlyZamboanga DR-140M 1+1	DR-140M 1+1	21	-14		7		15		22		0	0	0	0 Replacement
							-				14	22	36	36 DR-150M 1+1
New Pagadian RlyCotabato	DR-140M 1+1	21	0	0 :	0	0 Replacement								
			34	21	55	55 DR-150M 1+1	40		95. I	95 DR-150M 2+1	9	a a	101	
Ozamis-Tucuran Rptr.		_	7		1	7 O/F-150M 1+1	15		22 (22 O/F-150M 2+1	72		8	

Note: The number of systems in each phase is indicated total number of them. DR: Digital Transmission Radio System. O/F: Optical Fiber Transmission System.

Appendix 12-4 Long Distance Facilities (5/5)

									1	***				
								Requir	Required Facilities	IDES		-		
Section	Supporting			Pha	Phase A (1998)	98)		Phase	Phase B (2004)	<u>4</u>		Phas	Phase C (2010)	10)
	System	Baced	Expan.	Expan. Replace Total	Total		Expan. Replace Total	eplace	Fotal		Expan. Replace Total	Replace	Total	
		% 7,	ZM	2M	ZM.	System	2M	2M	2M	System	2M	2M	2M	System
Tucuran RptrZamboanga			7		7	7 O/F-150M 1+1	15		22		18		40	
Tucuran RptrCotabato			0				0				59		59 (59 O/F-150M 1+1
Cotabato-Davao			0				0				62		62 (62 O/F-150M 1+1
Cotabato-Davao	DR-140M 1+1	17	25		42		19		61		0	0	ō	0 Replacement
											0	61	61	61 DR-150M 1+1
Tacloban-Maasin			5		5	5 DR-150M 1+1	10		15		21		36	
Maasin-Surigao			5		5	5 DR-150M 1+1	8		13		17		30	
Surigao-Butuan			5		5	5 DR-150M 1+1	01		15		21		36	
Butuan-Prosperidad			10		10	10 DR-150M 1+1	10		50		24		4	
Prosperidad-Tandag			6		6	9 DR-150M 1+1	11		20		40		8	
Prosperidad-Tagum			10		10	10 DR-150M 1+1	10		20		24		4	
Tagum-Mati			6		Q,	9 DR-150M 1+1	92		55		18		47	
Cebu-Butuan			51		51	51 O/F-600M 1+1	37		88		57		145	
Butuan-Tagum			LL		11	77 O/F-600M 1+1	71		148 (148 O/F-600M 2+1	108		256	
Tugum-Davao			71		71	71 O/F-600M 1+1	58		129		57		186	
							-						• • •	
Zamboanga-Isabera			0				20		20 1	20 DR-150M 1+1	13		33	
Isabera-Jolo		-	0				16		161	16 DR-34M 2+1	6		য়	
Joio-Bongao			0				7		7 1	7 DR-34M 1+1	7		6	
Cag.de Oro-Malaybalay			20		20	20 DR-150M 1+1	19		39	39 DR-150M 2+1	69		108	
Malaybalay-Kidapawan			20		20	20 DR-150M 1+1	19		39 1	39 DR-150M 2+1	69		108	
Kidapawan-Digos Rly.			20		20	20 DR-150M 1+1	22		42 I	42 DR-150M 2+1	08		122	
Kidapawan-Cotabato			3	ì	E)	3 DR-150M 1+1	7		10		22		32	
Davao-Digos Rly.			37		37	37 DR-150M 1+1	35		72 1	72 DR-150M 3+1	98		158	
Digos RlyGen.Santos			17		17	17 DR-150M 1+1	14		31	31 DR-150M 2+1	41		72	
Gen.Santos-Isuran			16		16	16 DR-150M 1+1	15		31		31		62	
Isuran-Cotabato			17		17	17 DR-150M 1+1	14		31		31		62	
						3								
		1022			,				-				1	
Sub Total			2375	21	2396		2691	86	2777		2626	1959	7585	
Total							12	12758						
		İ			İ	į								

Note: The number of systems in each phase is indicated total number of them. DR: Digital Transmission Radio System. O/F: Optical Fiber Transmission System.

APPENDIX 13

OPERATION AND MAINTENANCE PLAN

APPENDIX 14

PROJECT EVALUATION

APPENDIX 15

IMPLEMENTATION PLAN

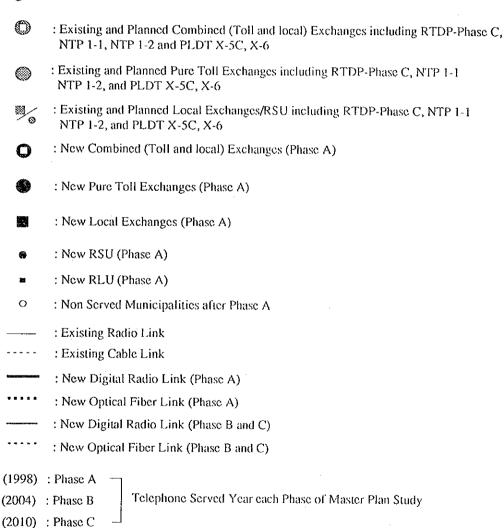
Appendix 15-1 Provincial Network Plan

This Map covers all municipalities which are indicated the priority of service plan, expansion plan, operating company's name and transmission routes assumed up to 2010.

Location of the municipalities in this map is made based on the Road Map of the Philippines 1985, however some municipalities are not shown on the Road Map of the Philippines.

When selection of media such as radio link or fiber optic cable link is needed, detailed engineering is required.

Legend:

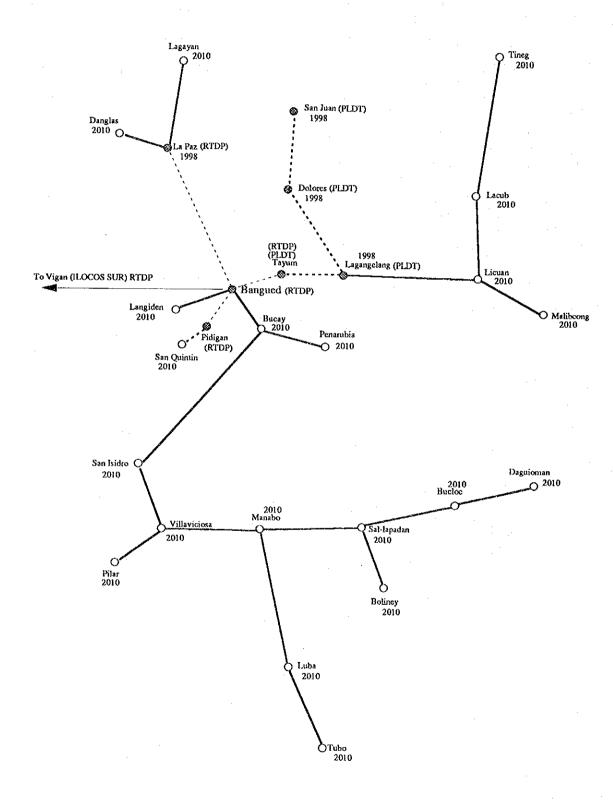


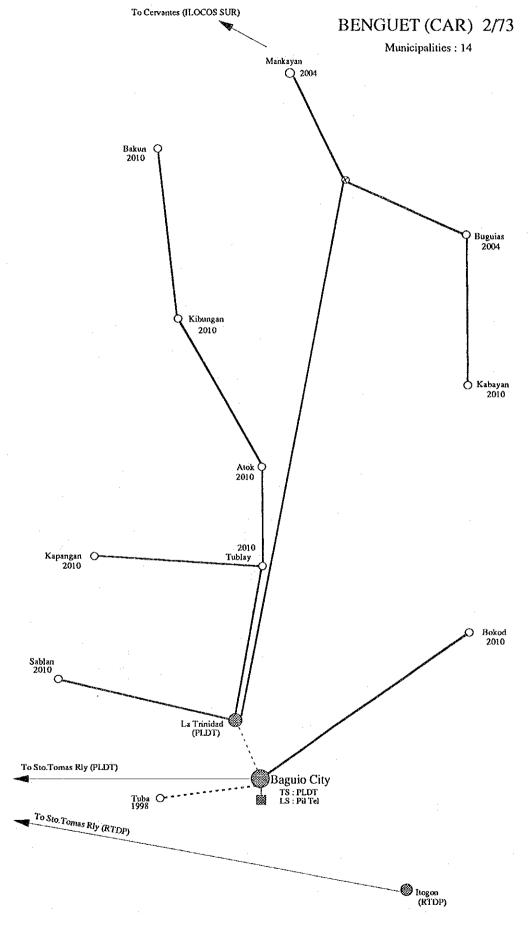
Appendix 15 Telephone served area after project packages (1/2)

Region	Province Name	No.of Mun.		Service Rate	Service Rate	Map
Name	ADDA		by 1998	(%)	in Region (%)	No.
1	ABRA	27	7	25.9		1
1/(CAR)	BENGUET	14	3	21.4		2
1	ILOCOS NORTE	23	19	82.6		3
1	ILOCOS SUR	34	17	50.0	63.1	4
1	LA UNION	. 20	15	75.0		5
1/(CAR)	MT.PROVINCE	10	. 6	60.0		6
1	PANGASINAN	48	44	91.7		. 7
2	BATANES	6	1	16.7		8
2	CAGAYAN VALLEY	29	25	86.2		9
2/(CAR)	IFUGAO	10	2	20.0	:	10
2	ISABELA	37	29	78.4	58.5	11
2/(CAR)	KALINGA APAYAO	15	. 1	6.7		12
2	NUEVA VISCAYA	15	9	60.0	:	13
2	QUIRINO	6	. 2	33.3		14
3	BATAAN	12	10	83.3		15
3	BULACAN	24	23	95.8		16
3	NUEVA ECIJA	32	30	93.8	91.0	17
3	PAMPANGA	22	22	100.0	71.0	18
3	TARLAC	18	14	77.8		19
3	ZAMBALES	14	12	85.7	4	
4	RIZAL					20
4	•	14	11	78.6		21
•	AURORA	8	4	50.0	•	22
4	BATANGAS	34	31	91.2		23
4	CAVITE	23	21	91.3		24
4	LAGUNA	30	26	86.7	69.7	25
4	MARINDUQUE	6	3	50.0		26
4	OCCIDENTAL MINDORO	11	4	36.4		27
-4	ORIENTAL MINDORO	15	14	93.3		28
4	PALAWAN	22	8	36.4		29
4	QUEZON	41	31	75.6		30
4	ROMBLON	17	1 -	5.9		31
5	ALBAY	18	16	88.9		32
5	CAMARINES NORTE	12	10	83.3		33
5	CAMARINES SUR	37	27	73.0	58.3	34
5	CATANDUANES	11	1	9.1	50.5	35
5	MASBATE	21	3	14.3		36
5	SORSOGON	16	10	62.5		. 37
6	AKLAN	17	6	35.3		38
6	ANTIQUE	18	2			
6	~			11.1	20.0	39
	CAPIZ	17	10	58.8	60.3	40
6	ILOILO	47	35	74.5		41
6	NEGROS OCCIDENTAL	32	26	81.3		42
7	BOHOL	48	8	16.7		43
7	CEBU	53	34	64.2	40.9	44
7	NEGROS ORIENTAL	25	12	48.0		45
7	SIQUIJOR	6	0	0.0		46
8	EASTERN SAMAR	23	5	21.7		47
8	LEYTE	51	14	27.5		48
8	NORTHERN SAMAR	24	4	16.7	21.0	49
8	SOUTHERN LEYTE	19	1	5.3	•	50
. 8	WESTERN SAMAR	26	6	23.1		51

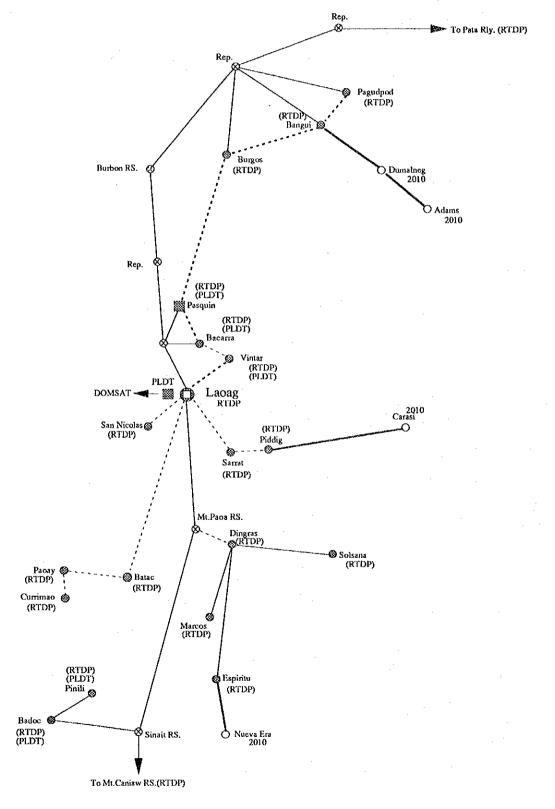
Appendix 15 Telephone served area after project packages (2/2)

Region	Province Name	No.of Mun.	Served Mun.	Service Rate	Service Rate	Map
Name			by 1998	(%)	in Region (%)	No.
9	BASILAN	7	3	42.9	· · · · · · · · · · · · · · · · · · ·	52
9/(ARMM)	SULU	18	4	22.2		53
9/(ARMM)	TAWI-TAWI	10	2	20.0	23.1	54
9	ZAMBOANGA DEL NORTE	27	6	22.2		55
9	ZAMBOANGA DEL SUR	42	9	21.4	4	56
10	AGUSAN DEL NORTE	12	6	50.0	······································	57
10	AGUSAN DEL SUR	14	3	21.4		58
10	BUKIDON	22	11	50.0		59
10	CAMINGAN	5	1	20.0	46.0	60
10	MISAMIS OCCIDENTAL	17	8	47.1		61
10	MISAMIS ORIENTAL	26	22	84.6		62
10	SURIGAO DEL NORTE	28	6	21.4		63
11	DAVAO DEL NORTE	21	15	71.4		64
11	DAVAO DEL SUR	16	15	93.8		65
11	DAVAO ORIENTAL	11	8	72.7	62.8	66
11	SOUTHERN COTABATO	19	12	63.2		67
11	SURIGAO DEL SUR	19	4	21.1		68
12	LANAO DEL NORTE	23	8	34.8		69
12/(ARMM)	LANAO DEL SUR	38	3	7.9		70
12/(ARMM)	MAGUINDANAO	18	6	33.3	26.9	71
12	NORTHERN COTABATO	17	10	58.8		72
12	SULTAN KUDARAT	12	2	16.7		73
Total		1580	839	53.1		

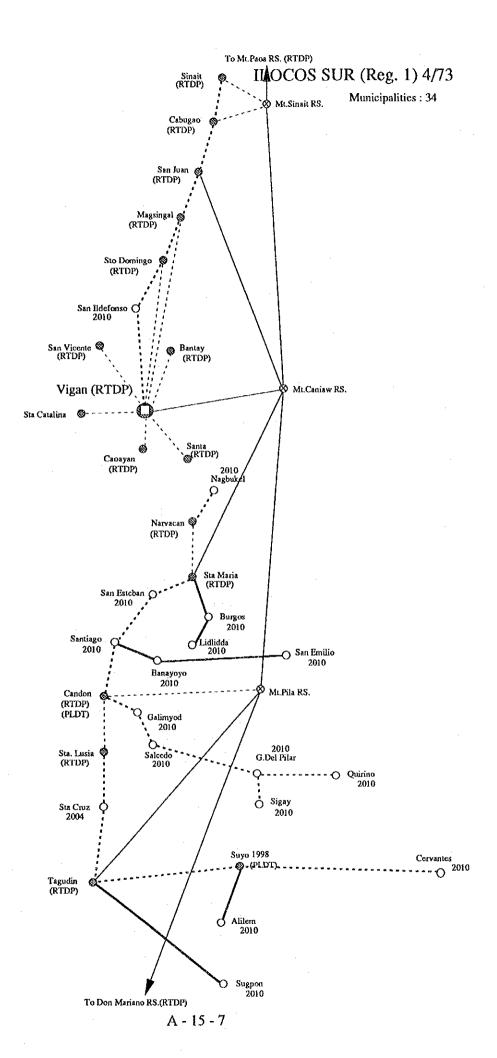


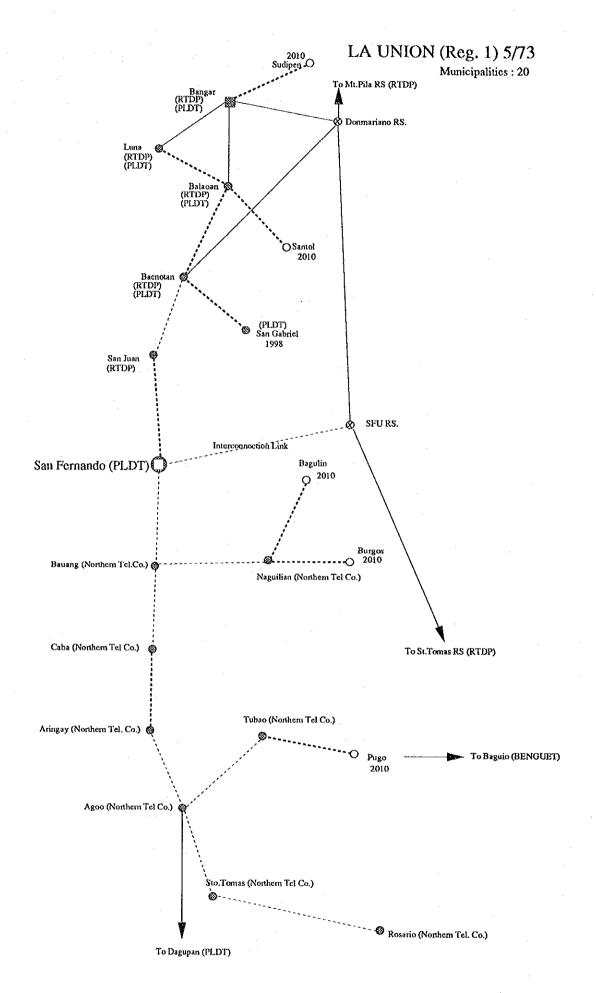


ILOCOS NORTE (Reg. 1) 3/73

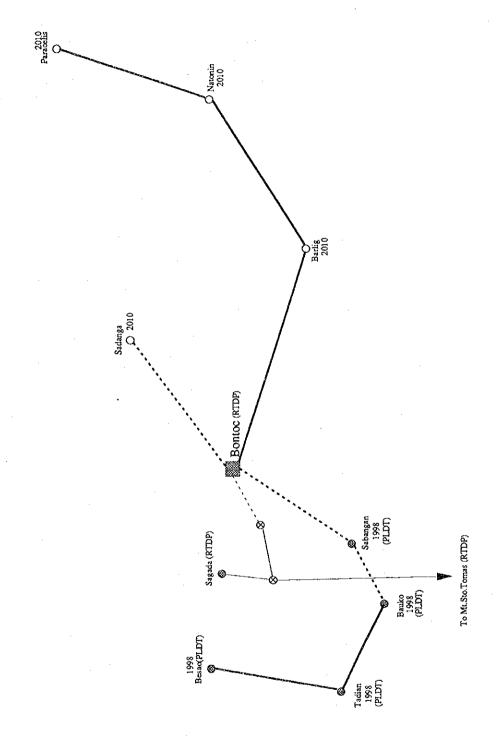


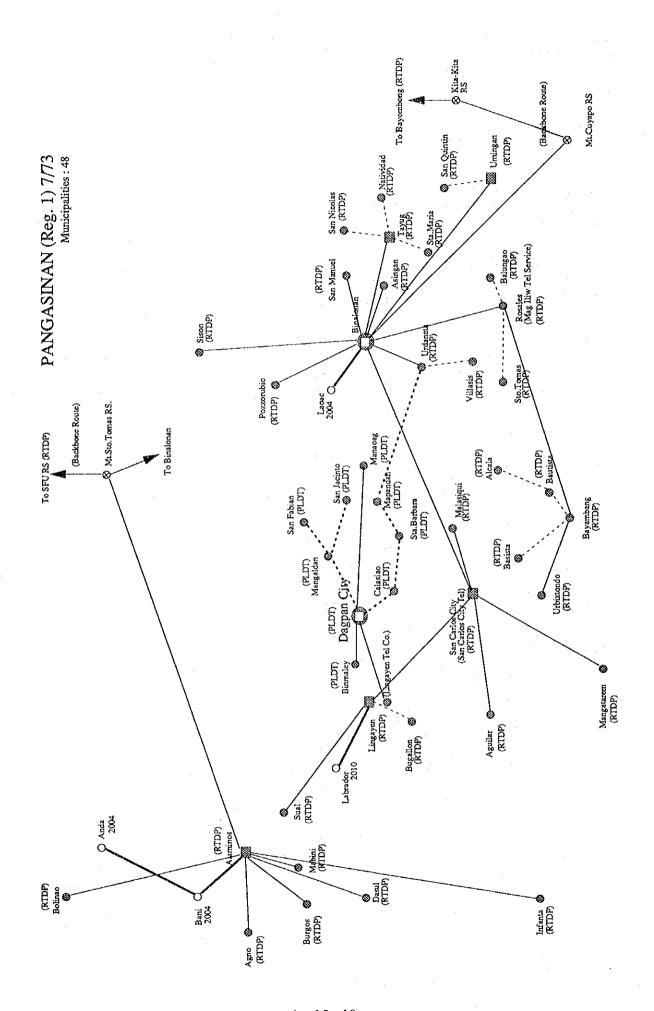
A - 15 - 6

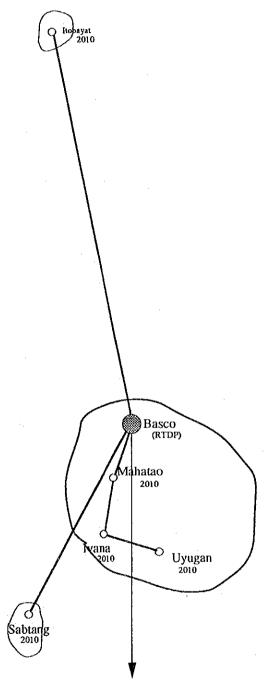




MT.PROVINCE (CAR) 6/73
Mucipalities: 10



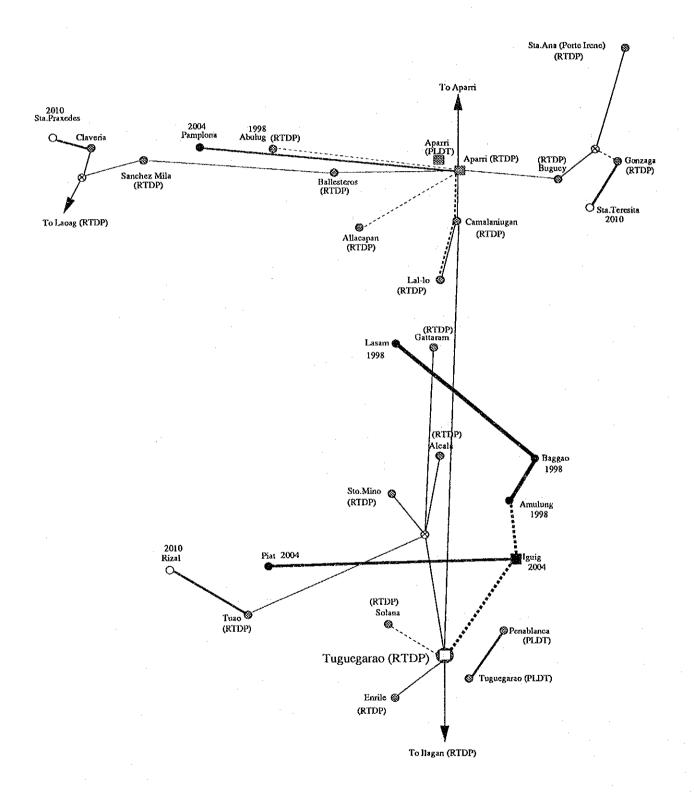




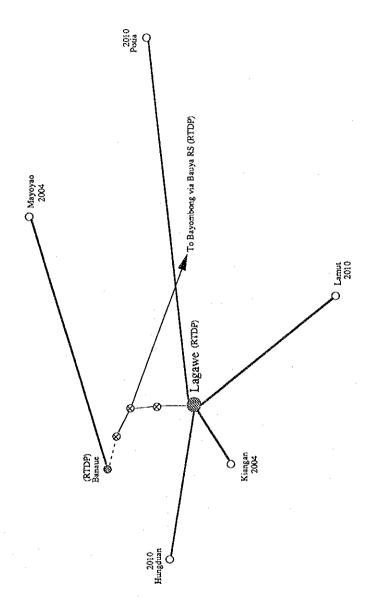
To Tuguegarao via Aparri (RTDP)

CAGAYAN VALLEY (Reg. 2) 9/73

Municipalities: 29

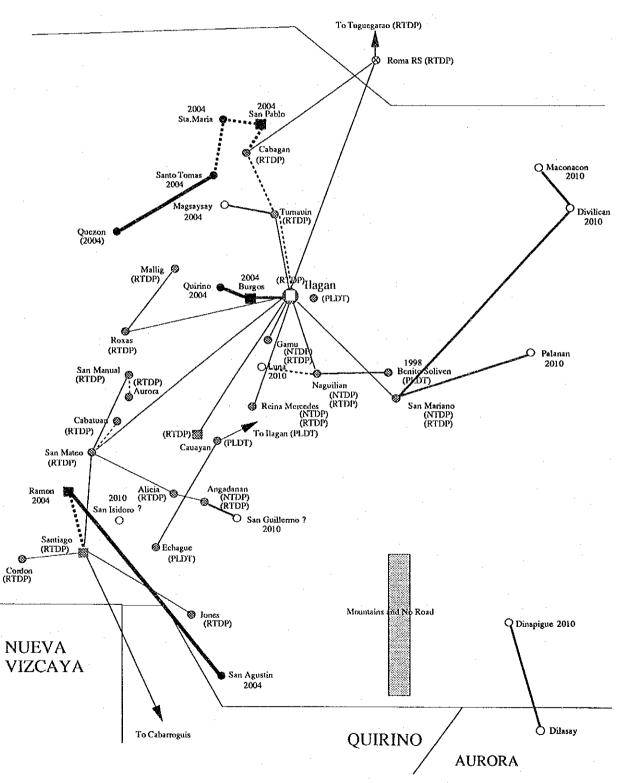


Calayan is not shown on the map. 2010

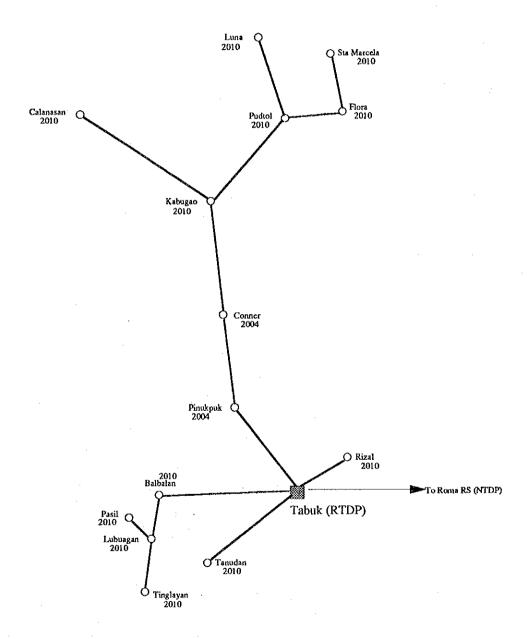


Hingyon, Aquinaldo, Tiroc are not shown on the map. 2010 2004 2010

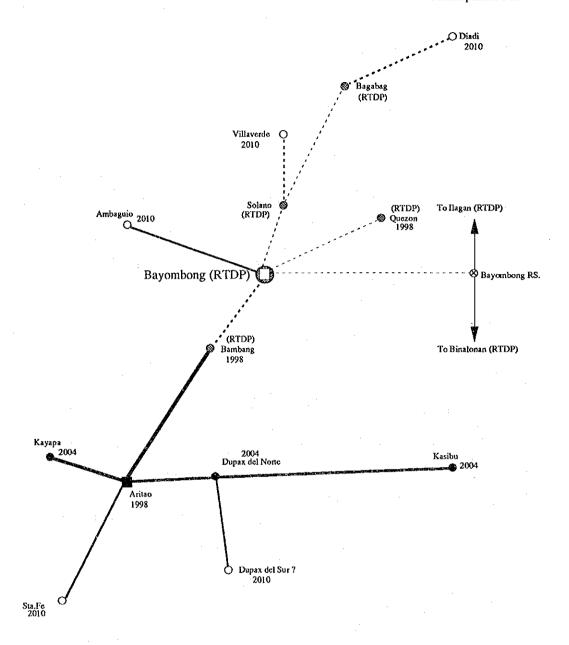
CAGAYAN



A - 15 - 14

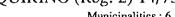


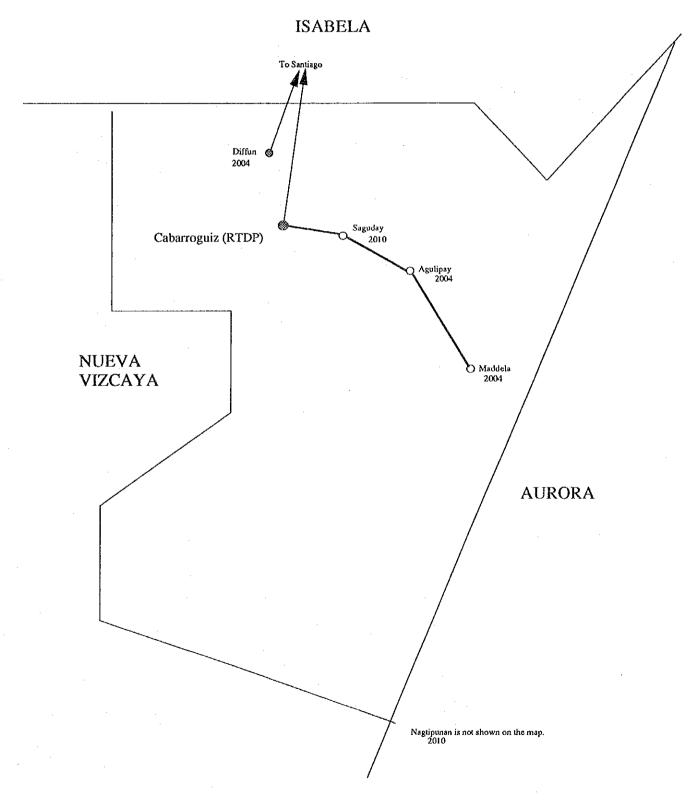
NUEVA VISCAYA (Reg. 2) 13/73



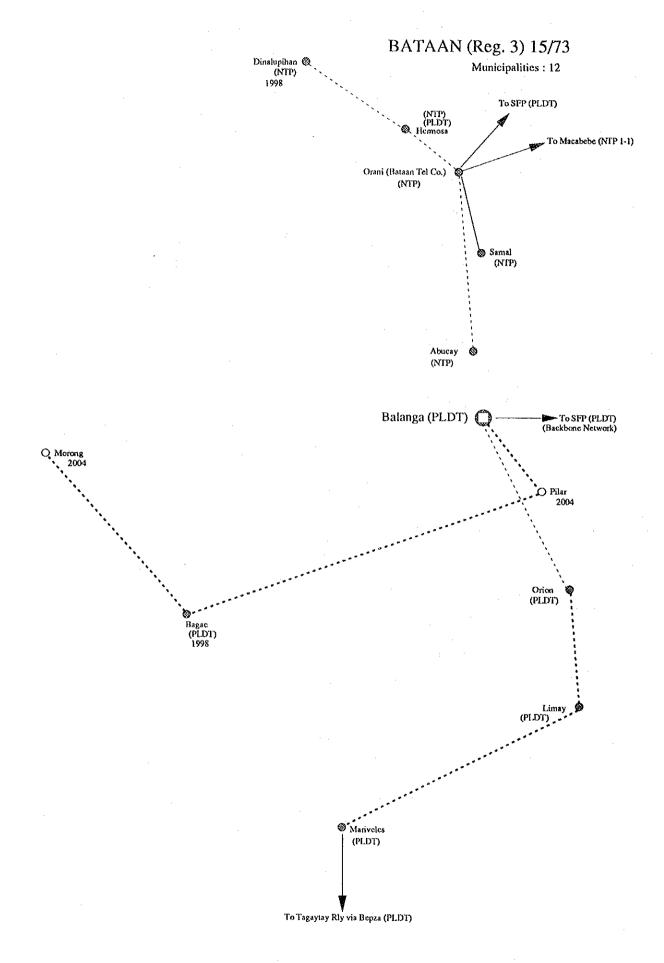


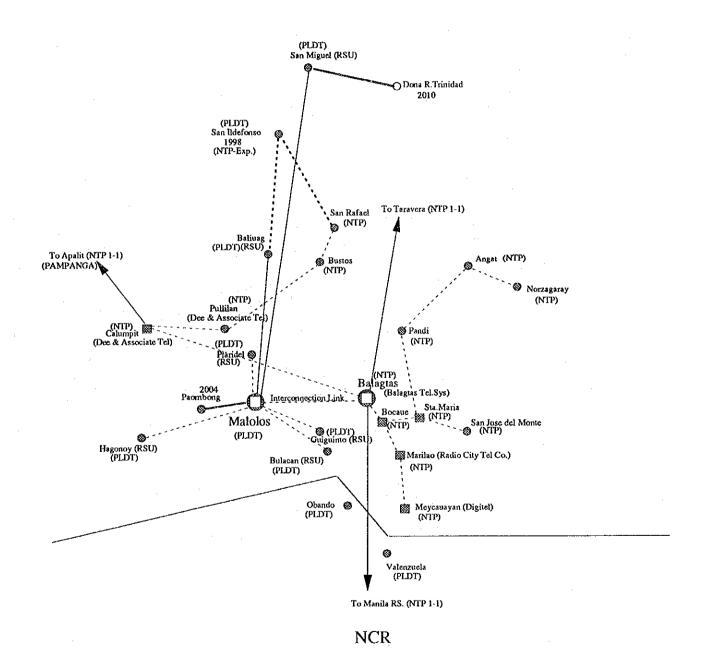
NUEVA ECIJA

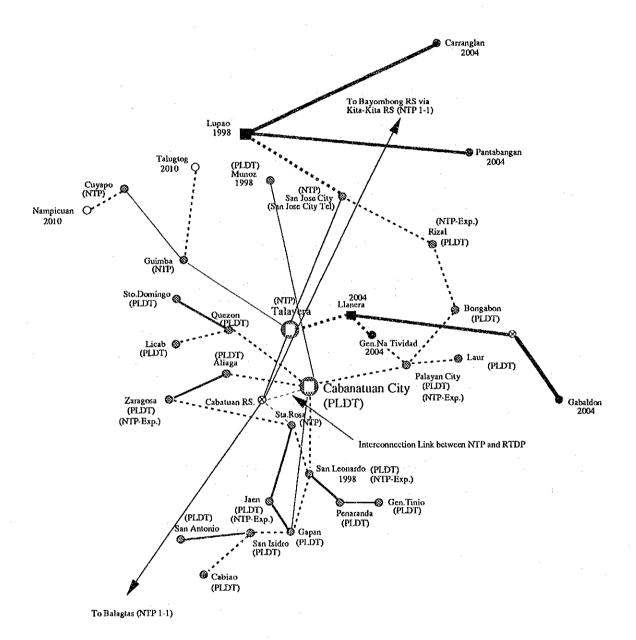


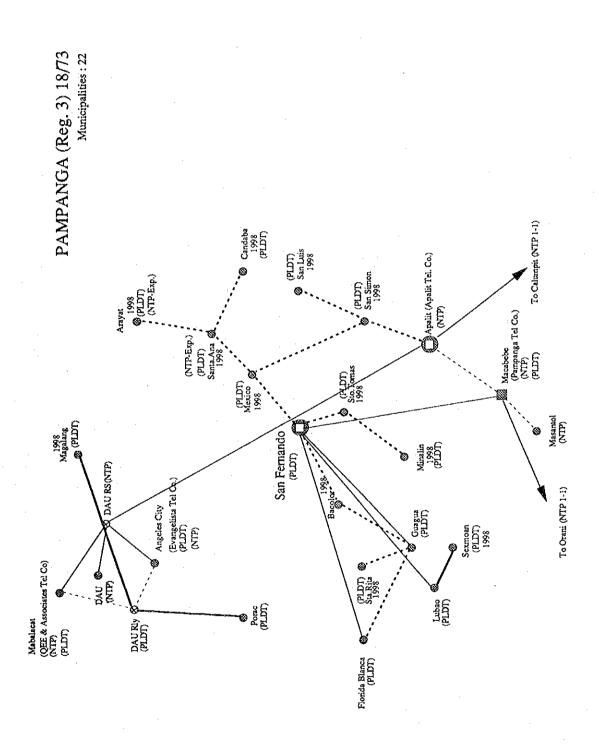


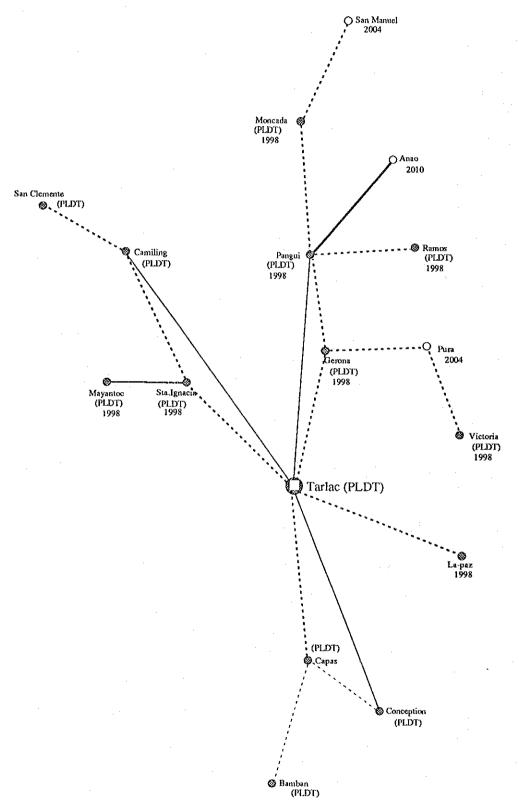
A - 15 - 17

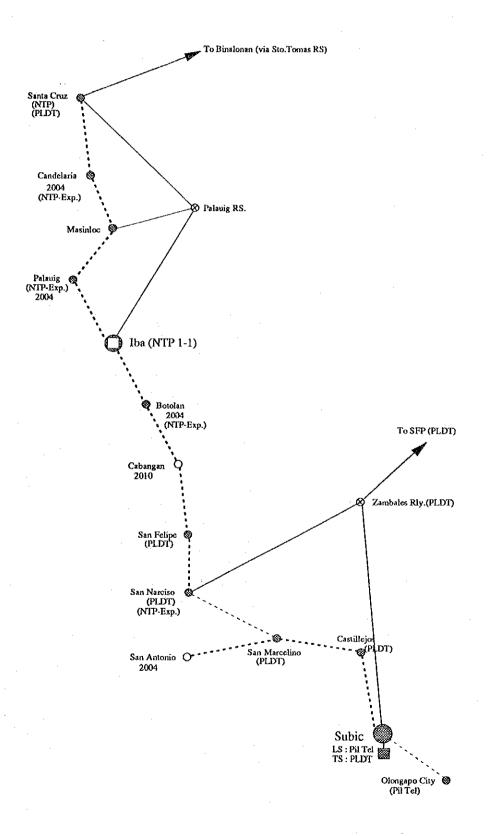


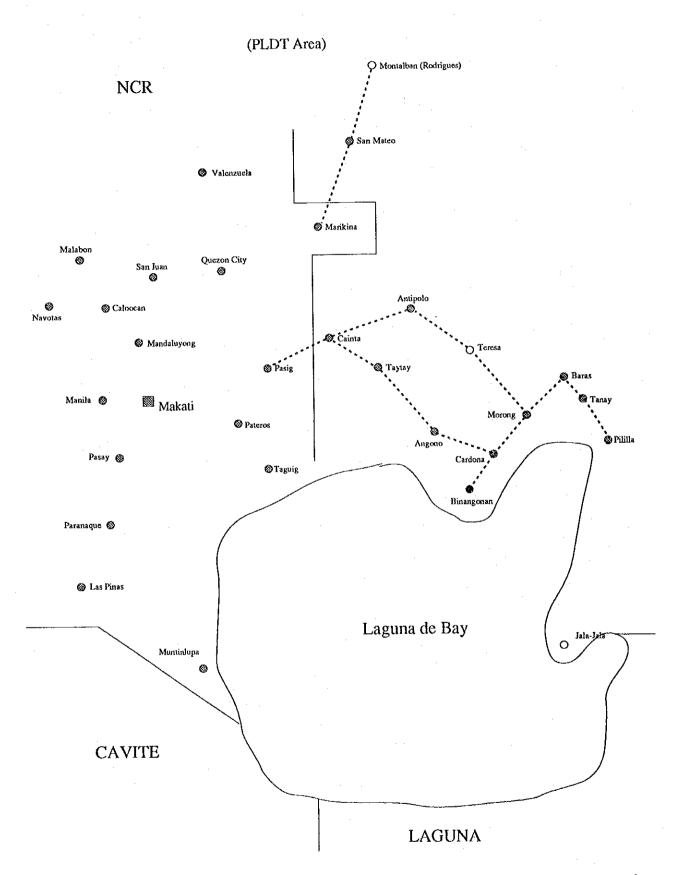




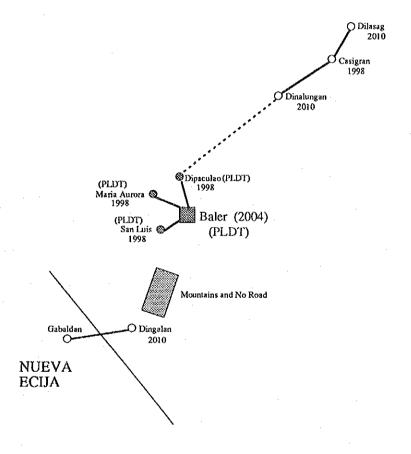


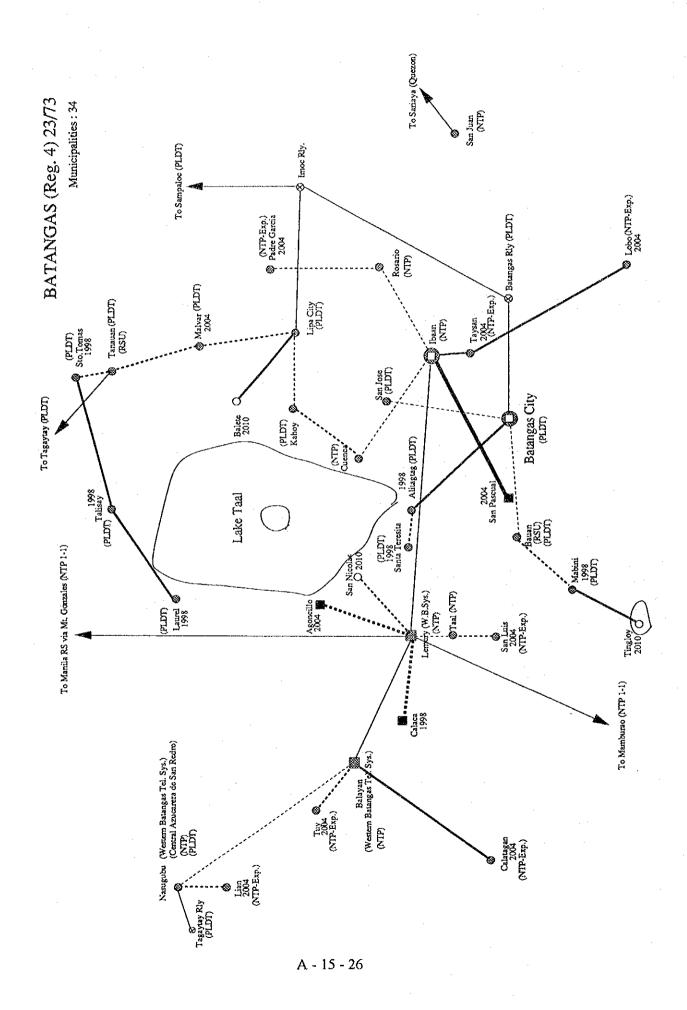


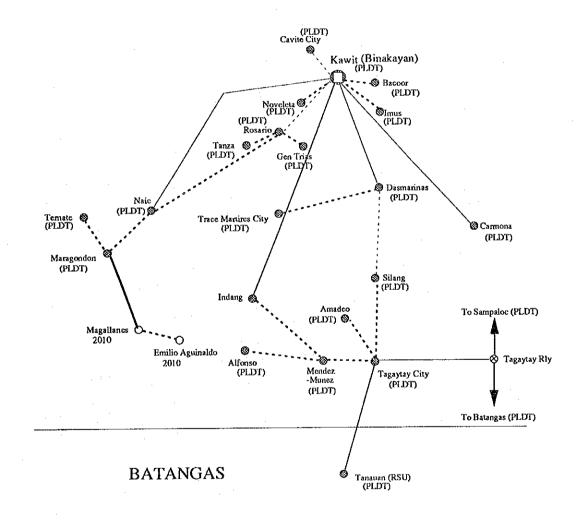




A - 15 - 24



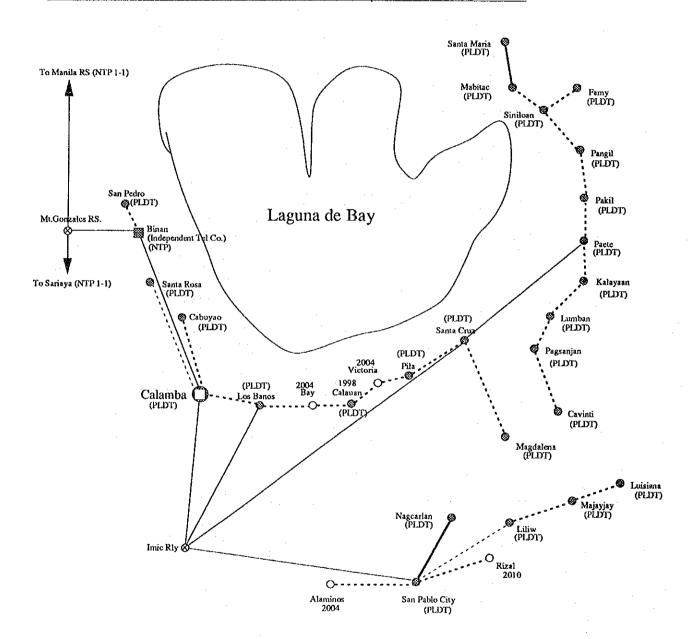


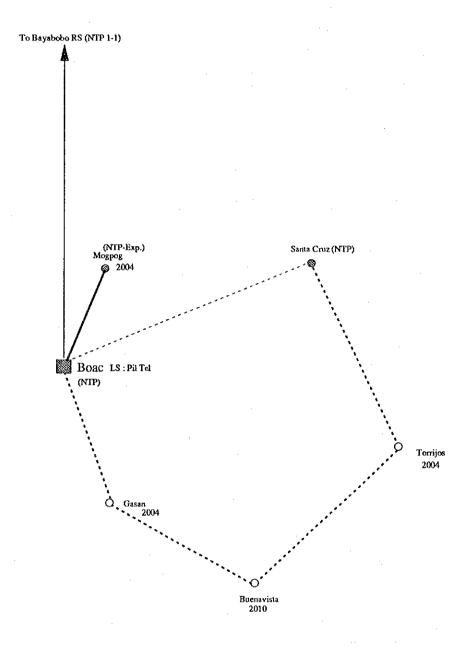


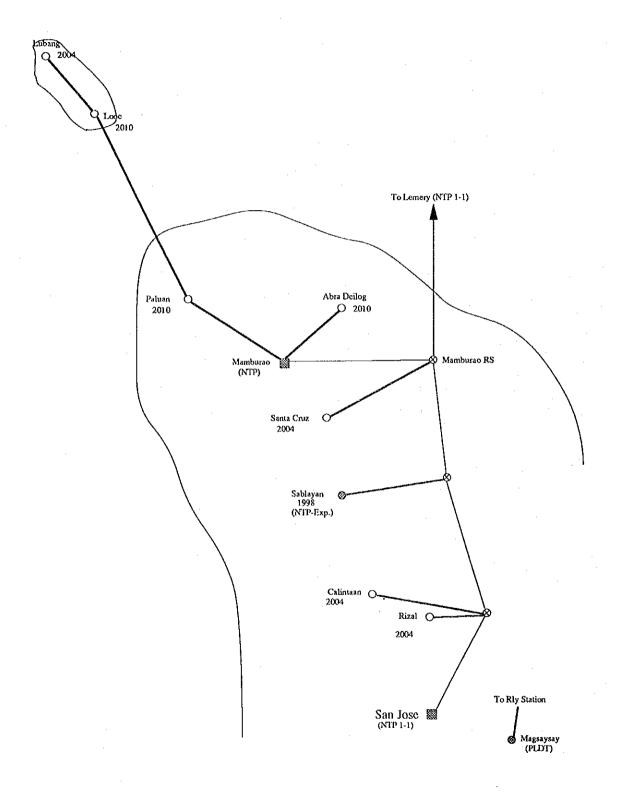
Gen. Alvarez is not shown on the map. 1998

NCR

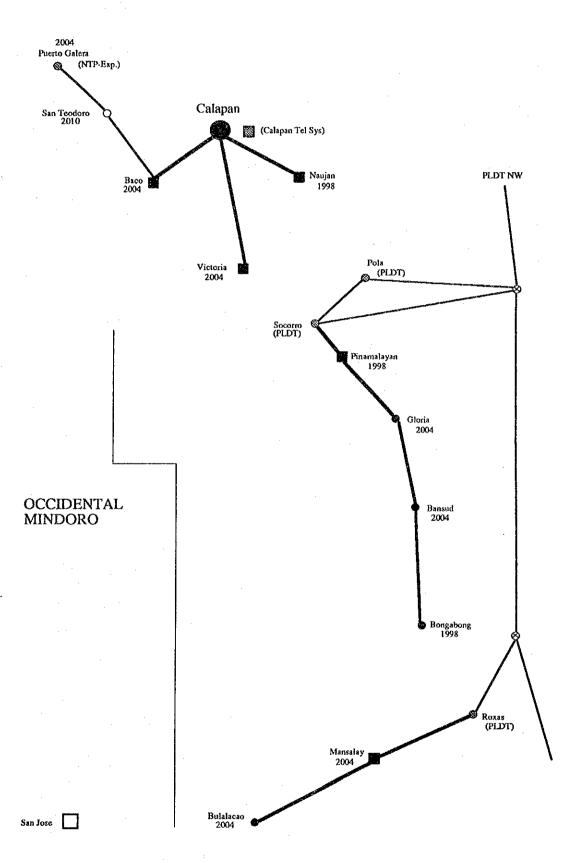
RIZAL

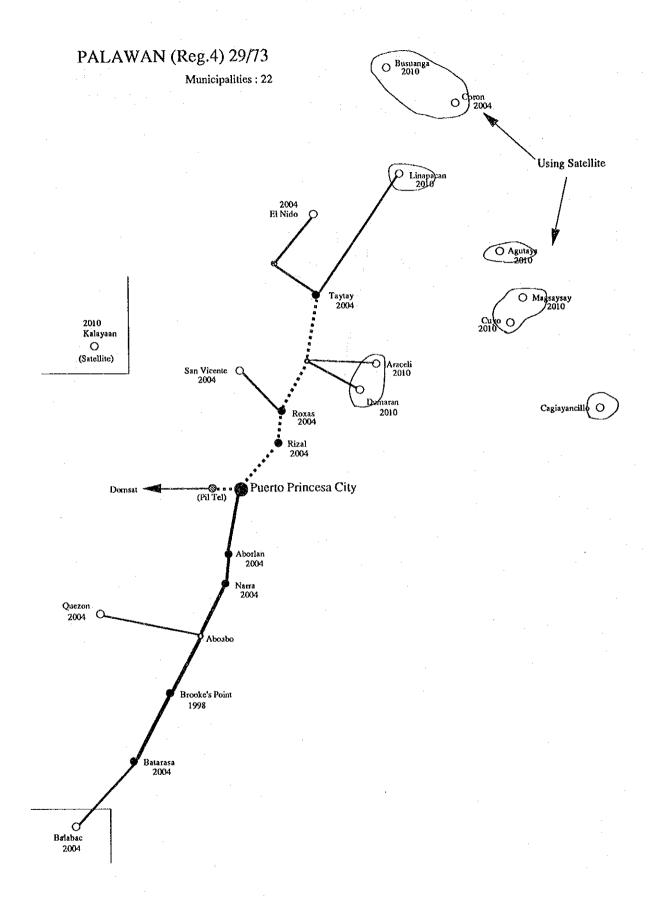


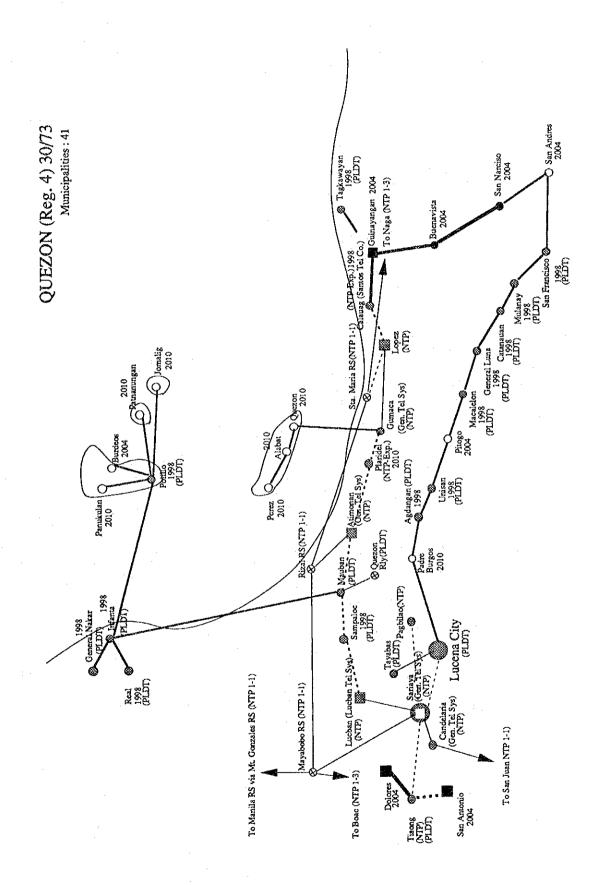


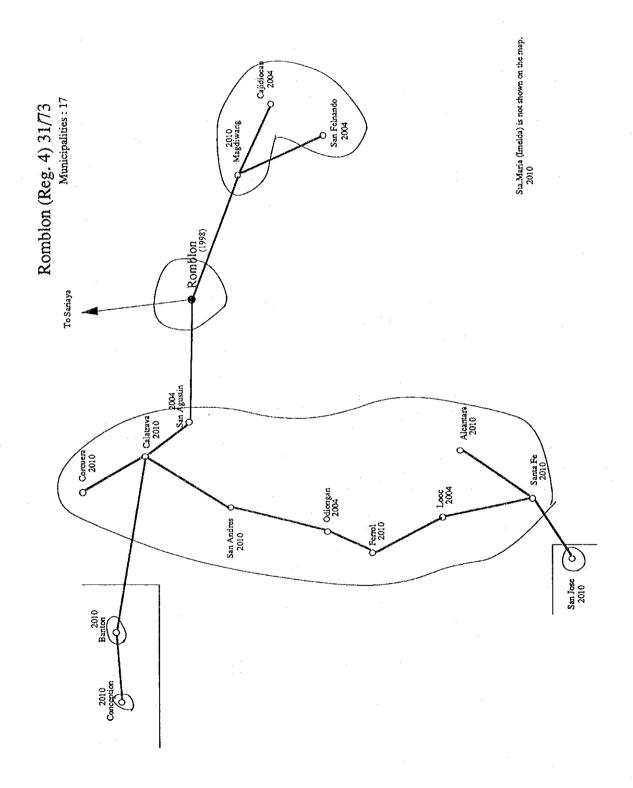


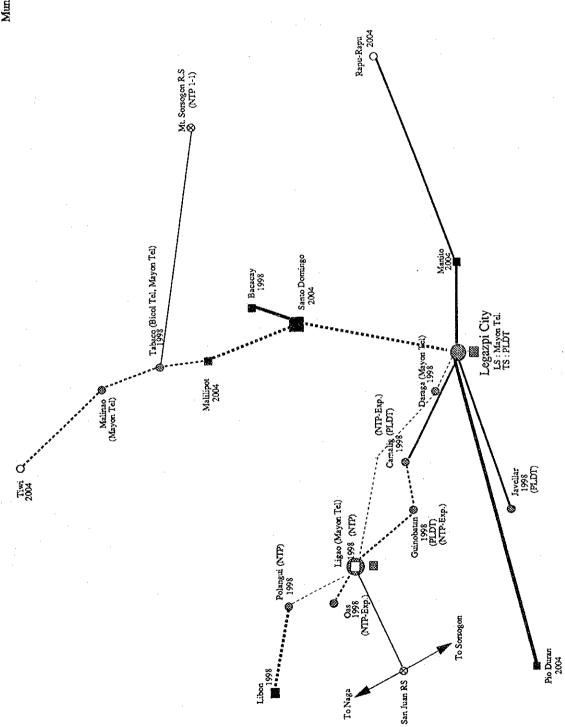
ORIENTAL MINDORO (Reg. 4) 28/73

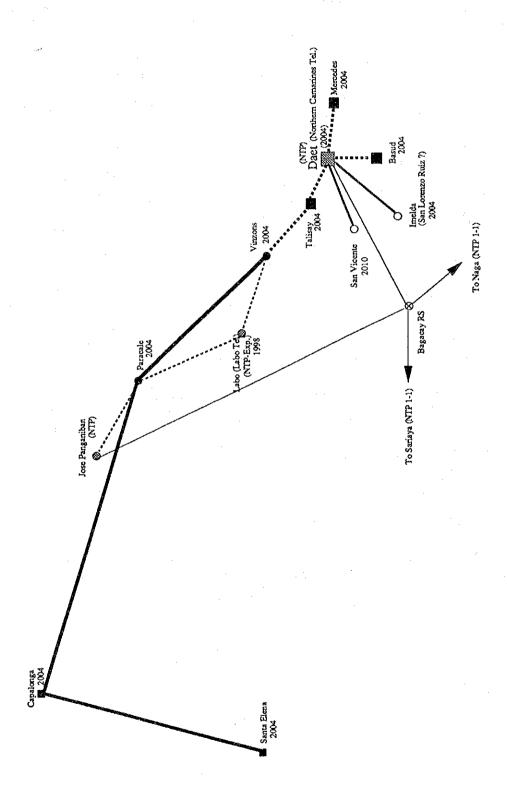


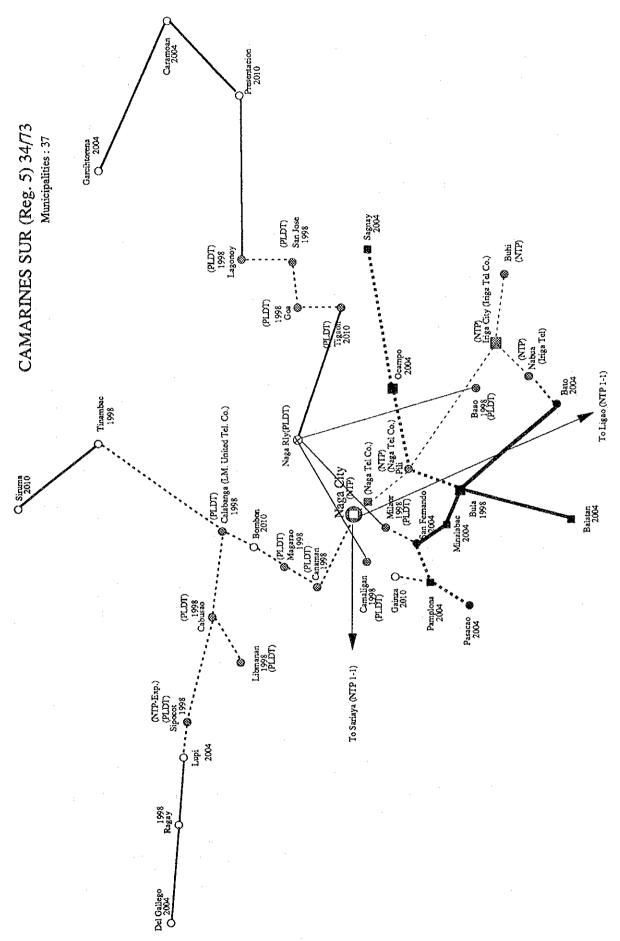






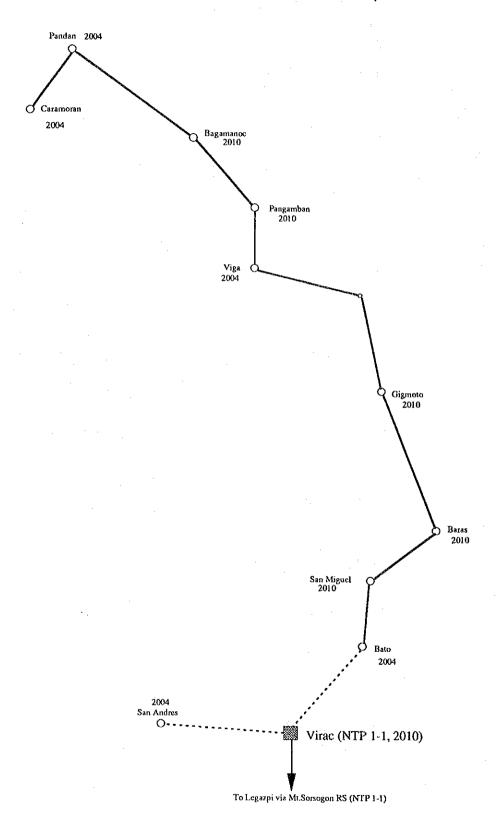


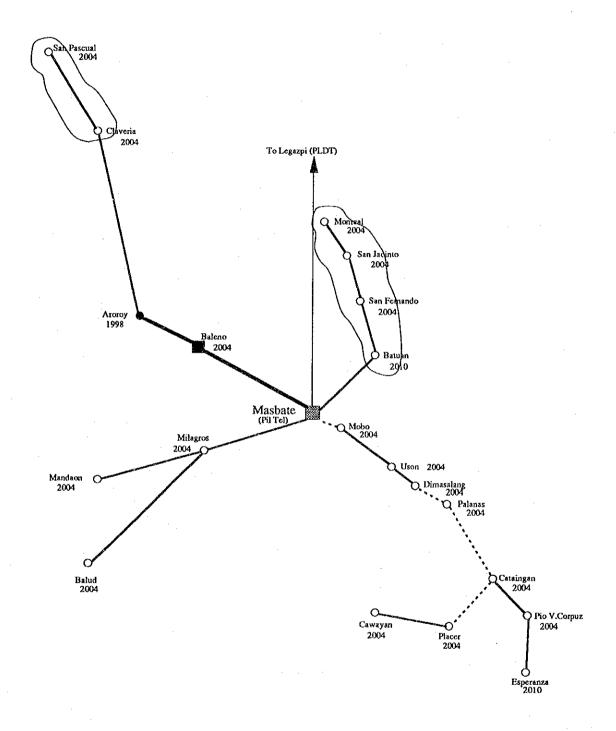


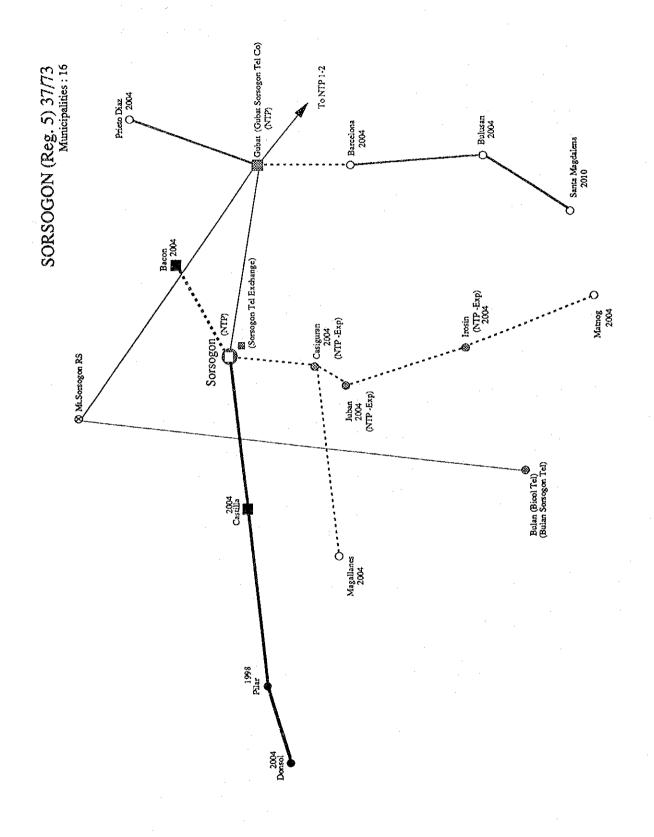


A - 15 - 37

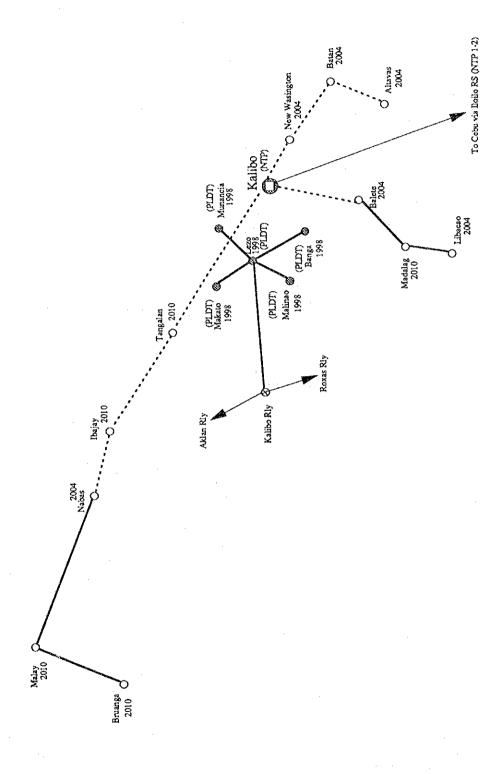
CATANDUANES (Reg. 5) 35/73

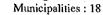


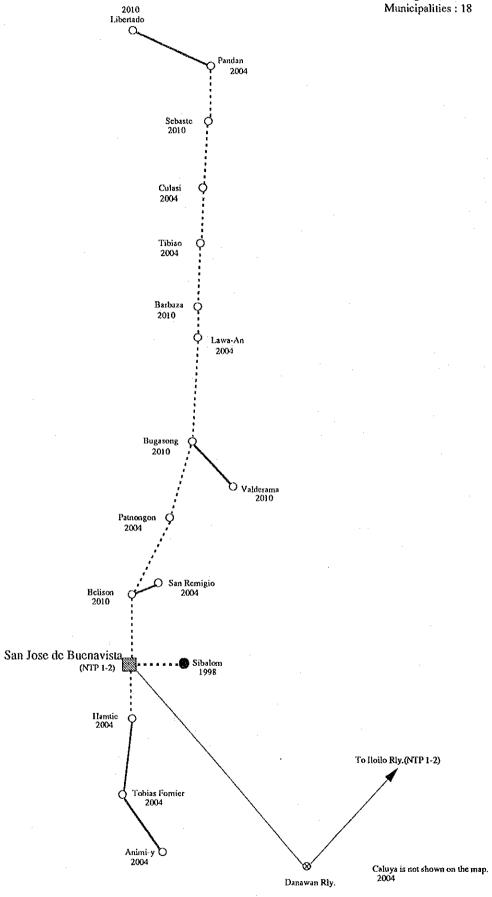


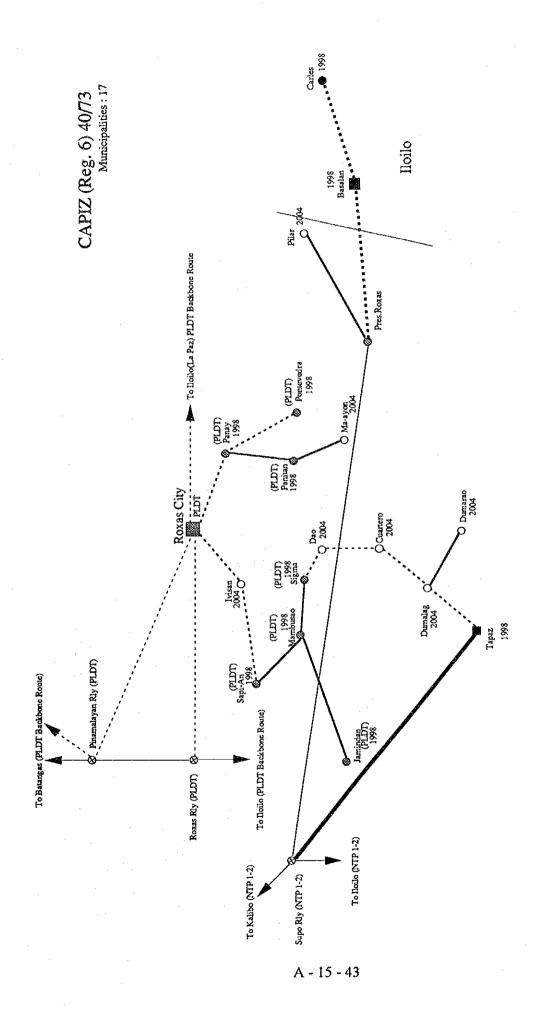


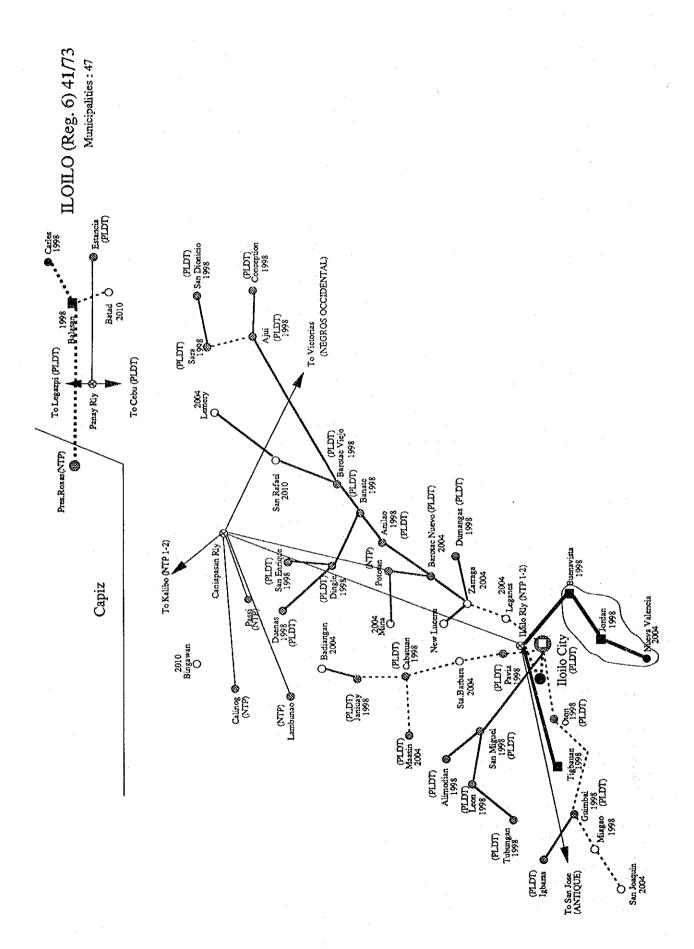
AKLAN (Reg. 6) 38/73 Municipalities: 17



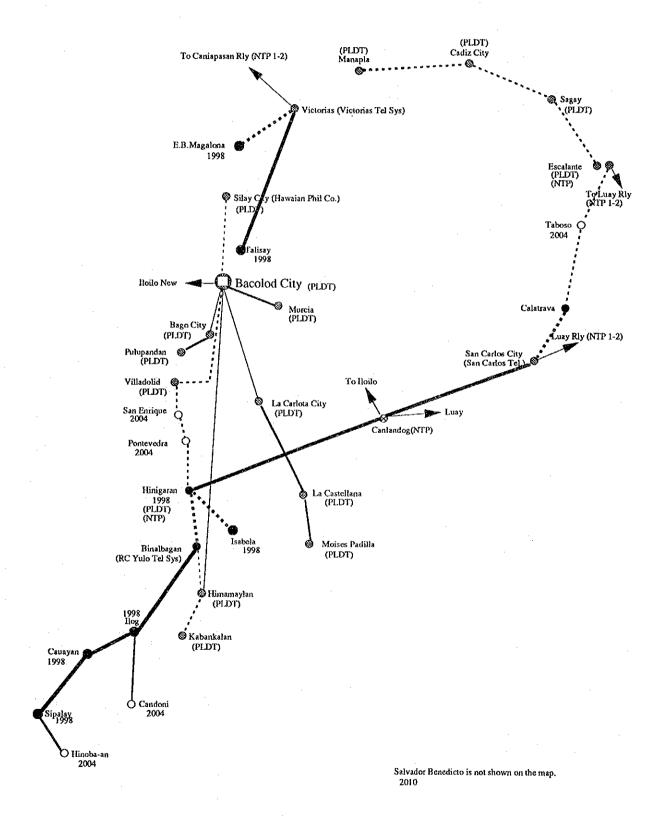


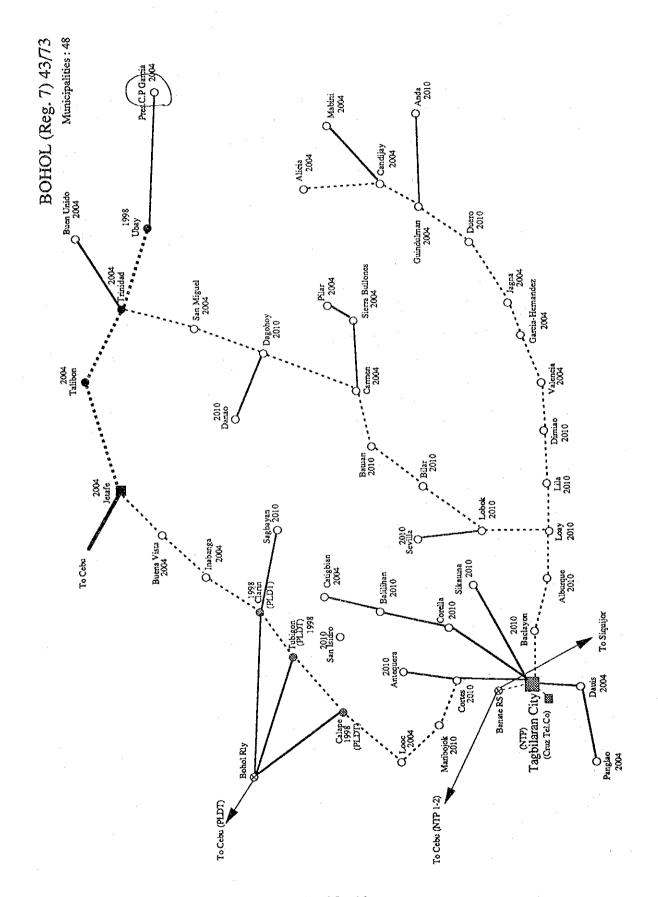




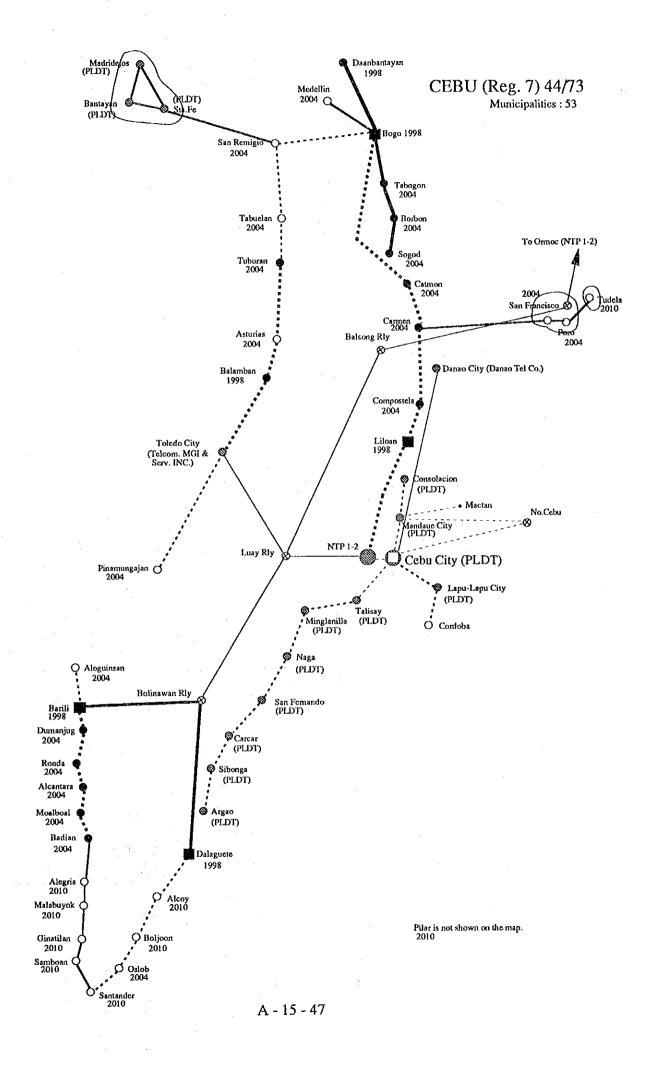


NEGROS OCCIDENTAL (Reg. 6) 42/73

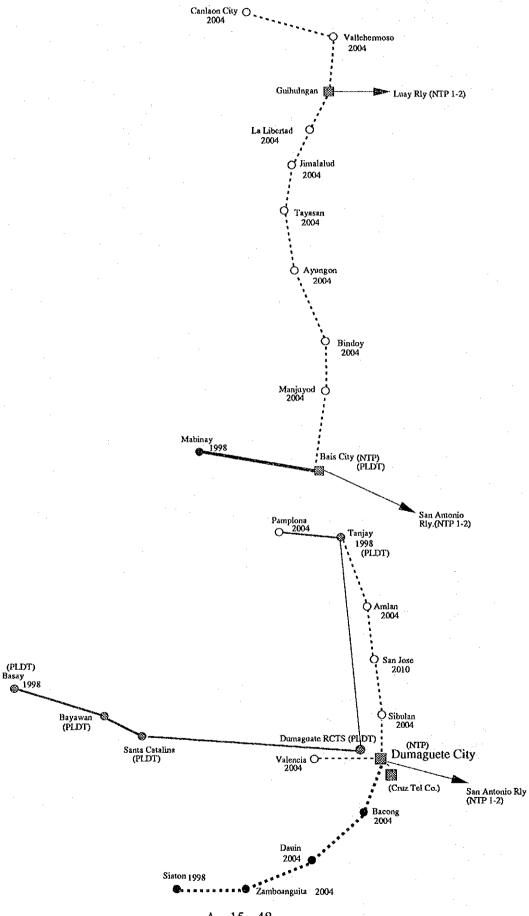




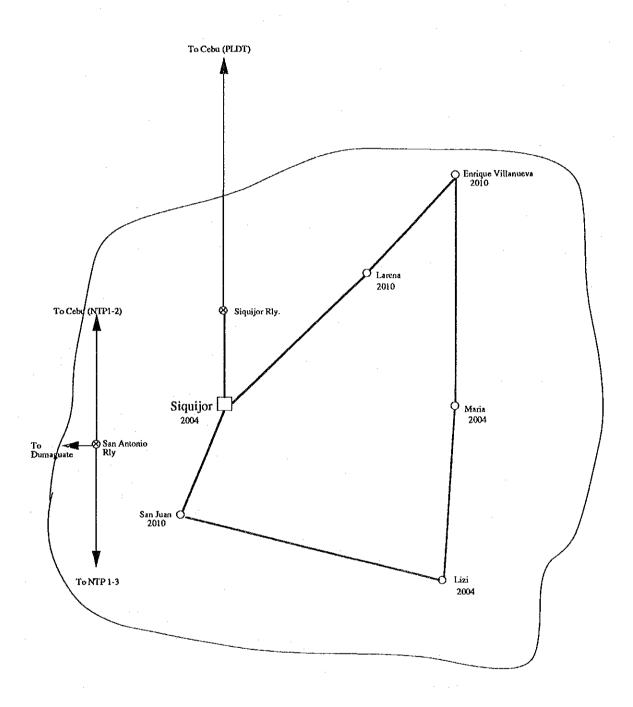
A - 15 - 46

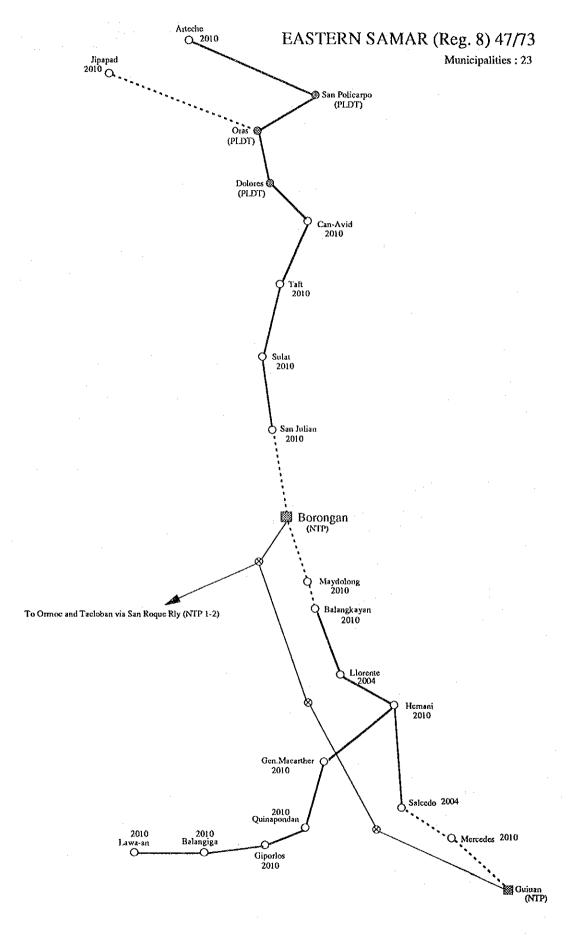


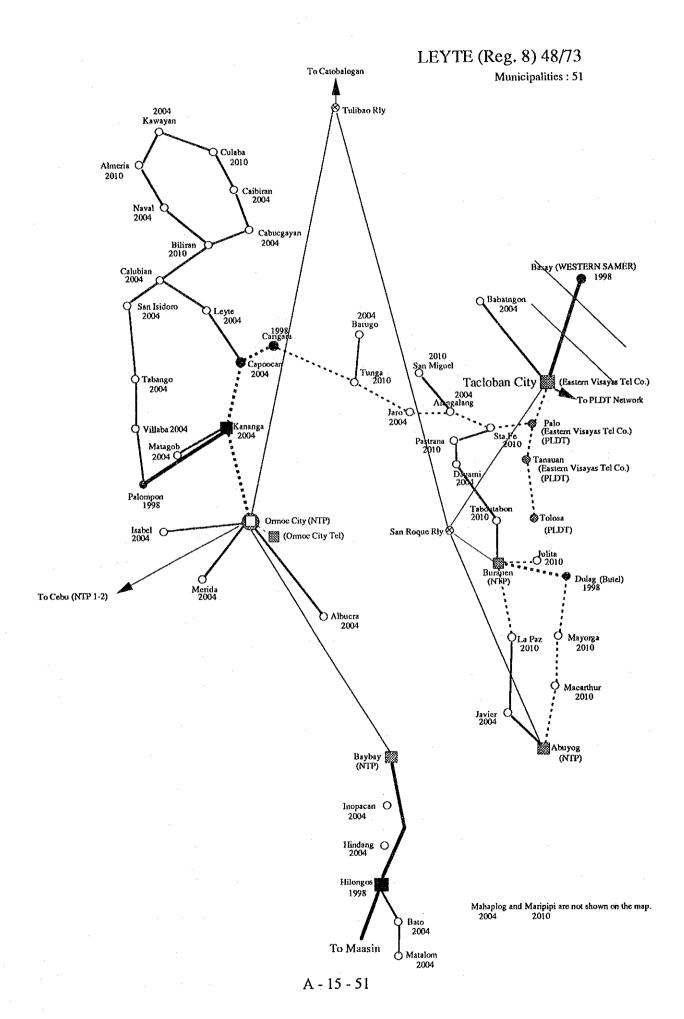
NEGROS ORIENTAL (Reg.7) 45/73 Municipalities: 25

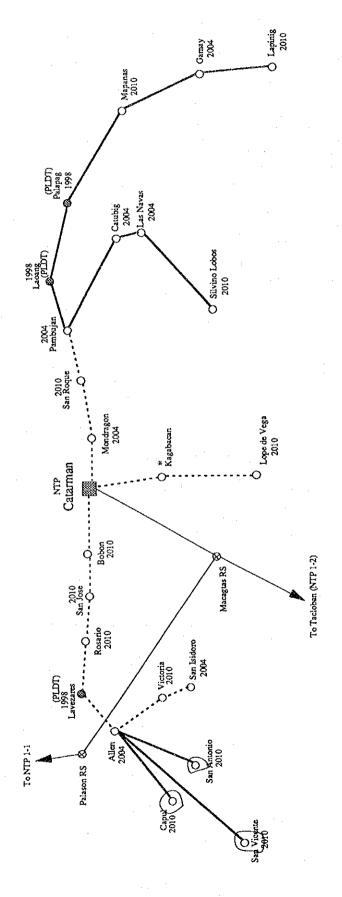


A - 15 - 48



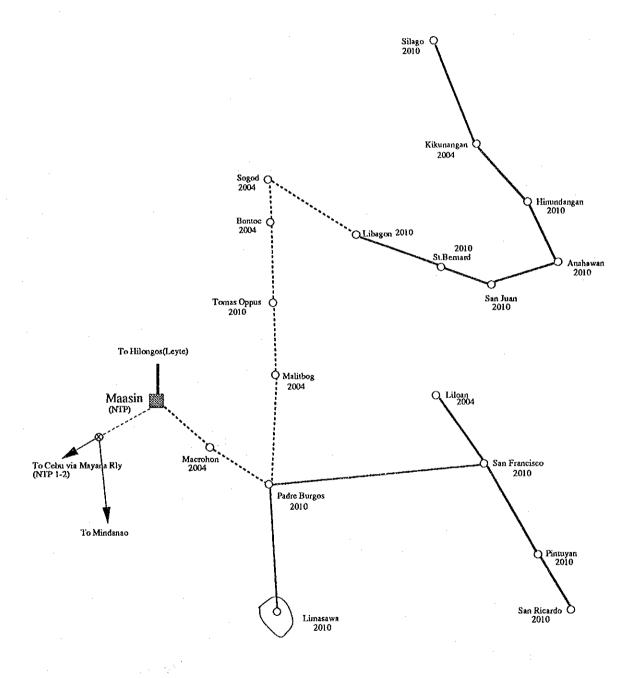


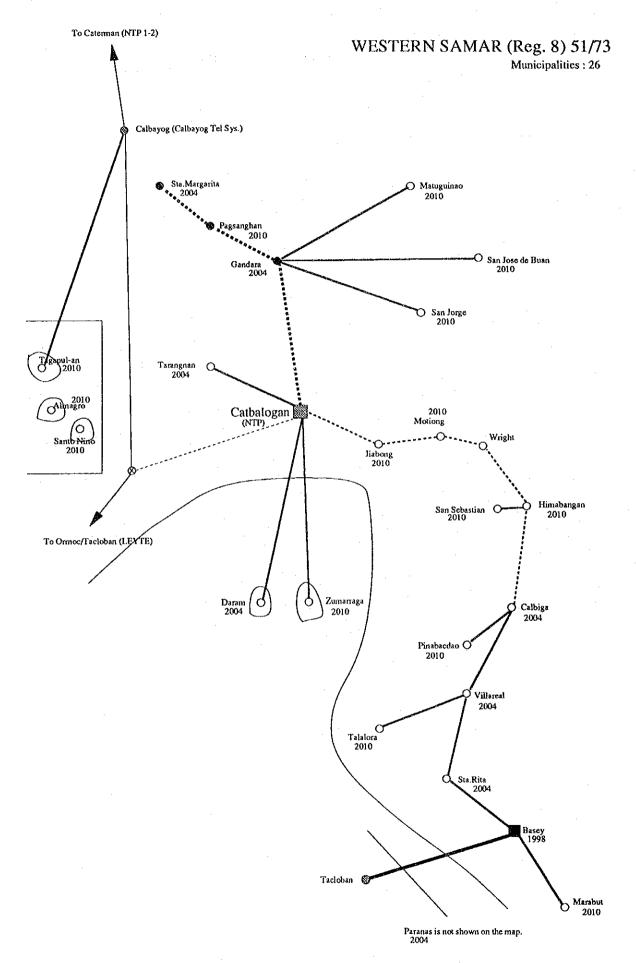


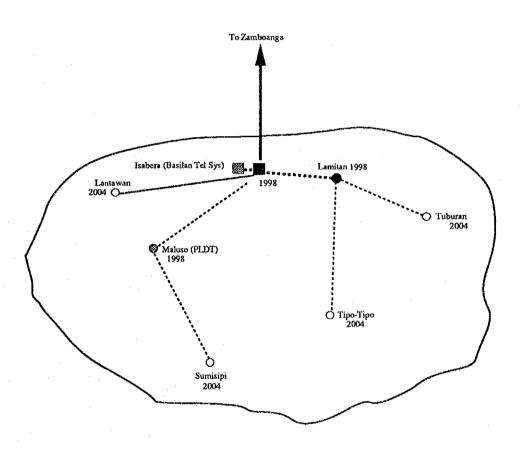


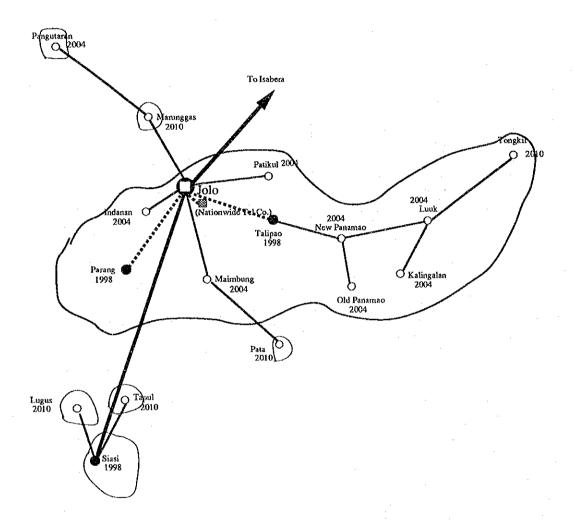
Biri is not shown on the map. 2010

A - 15 - 52



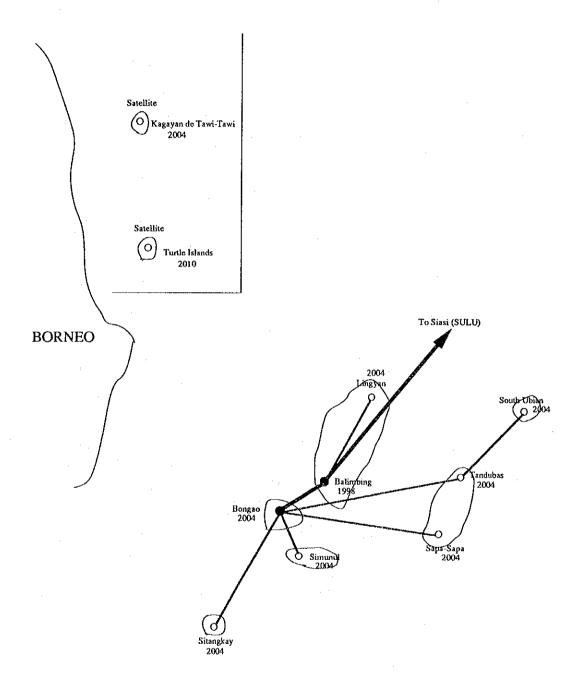






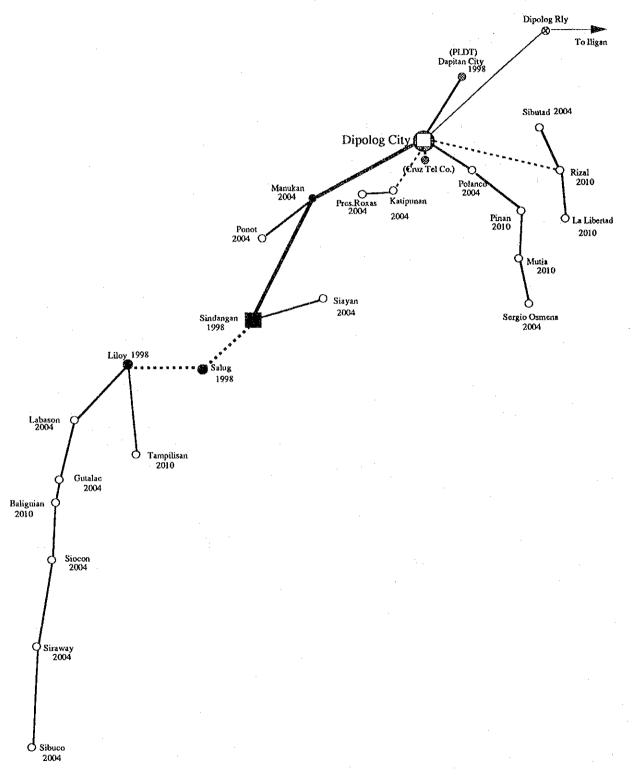
Pandami is not shown on the map. 2004

TAWI-TAWI (ARMM) 54/73

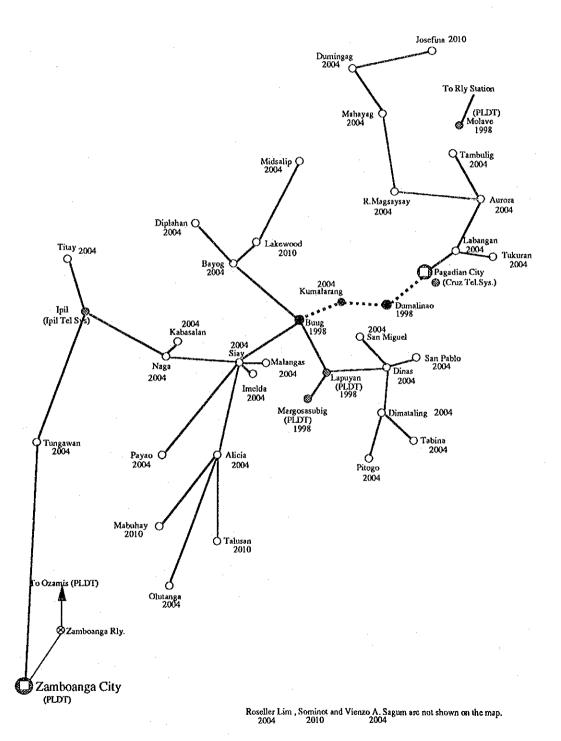


ZAMBOANGA DEL NORTE (Reg. 9) 55/73

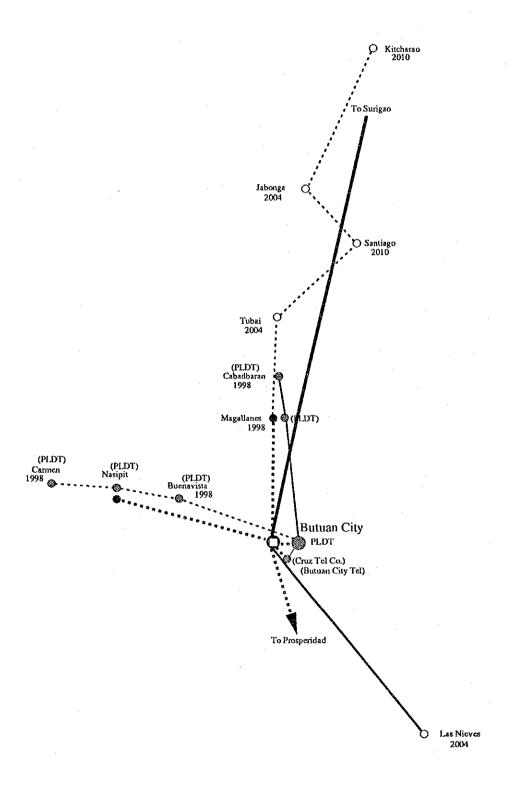
Municipalities: 27



Bacungan, Godod and Kalawit are not shown on the map. 2010 2010 2010

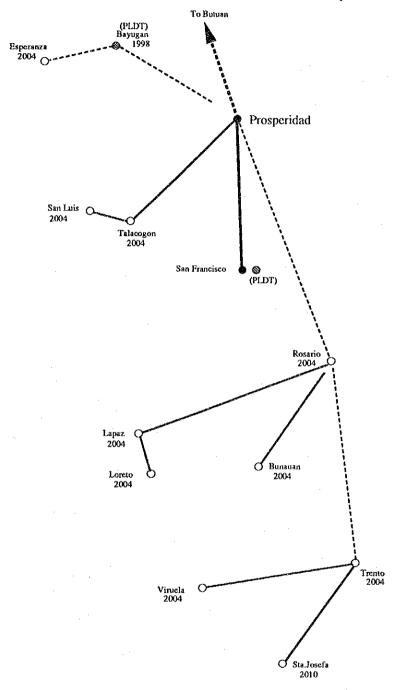


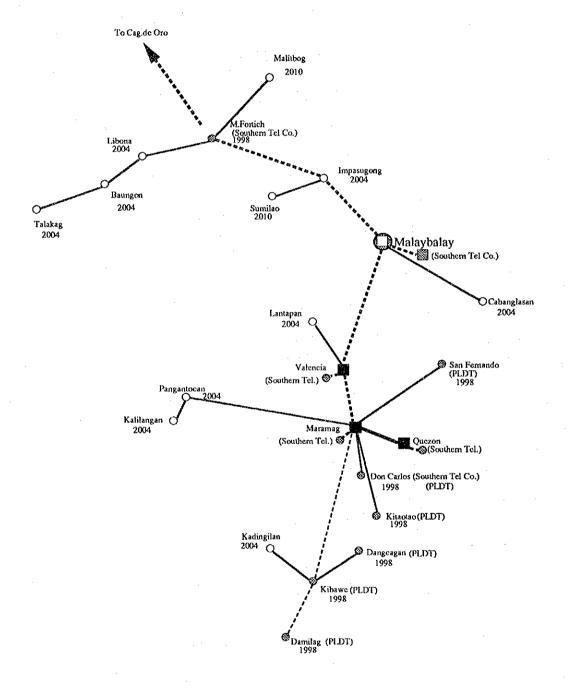
AGUSAN DEL NORTE (Reg. 10) 57/73



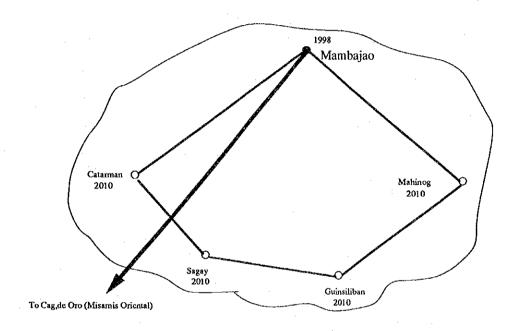
R.T. Romualdez is not shown on the map. 2010

AGUSAN DEL SUR (Reg. 10) 58/73



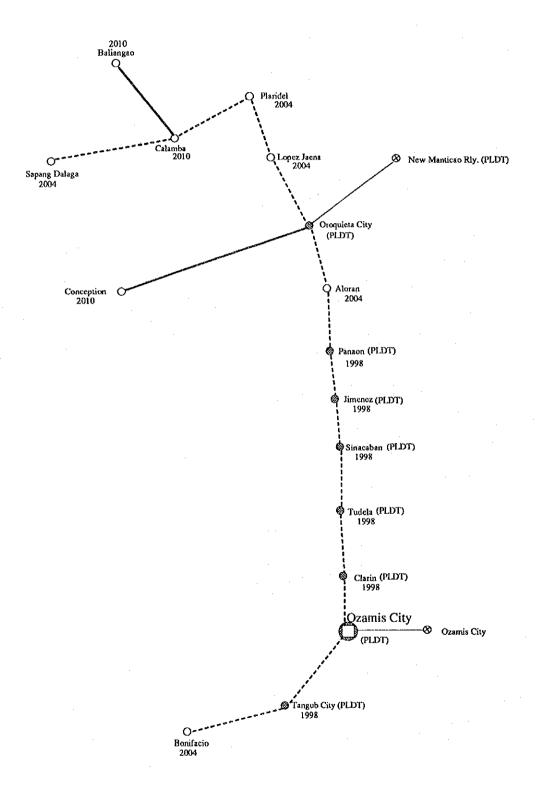


CAMINGAN (Reg. 10) 60/73

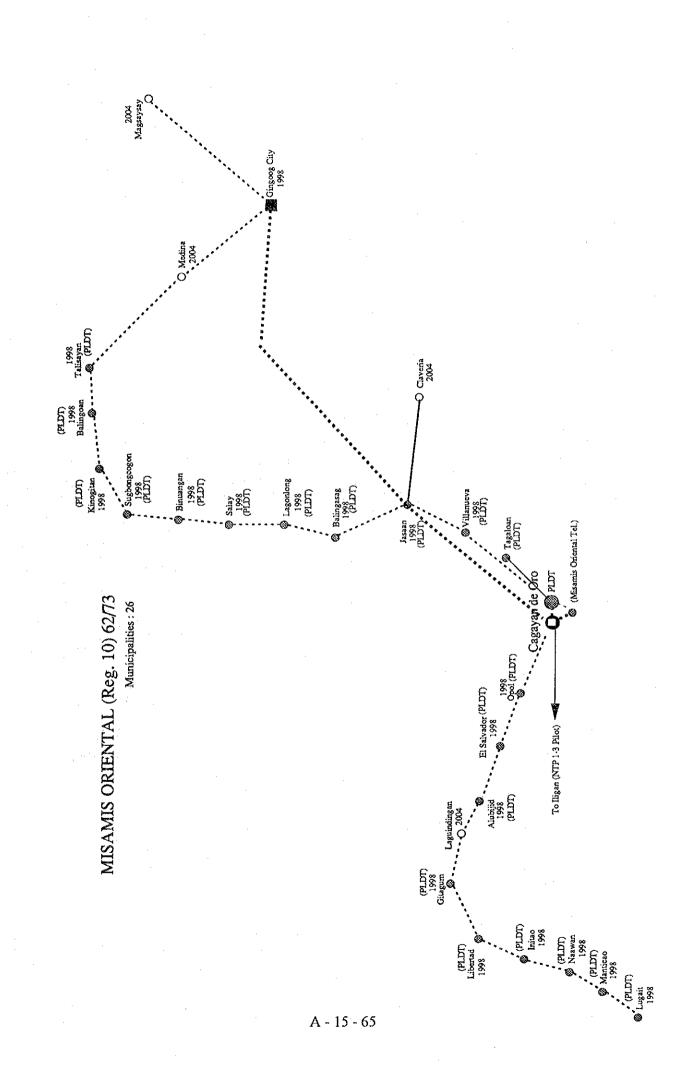


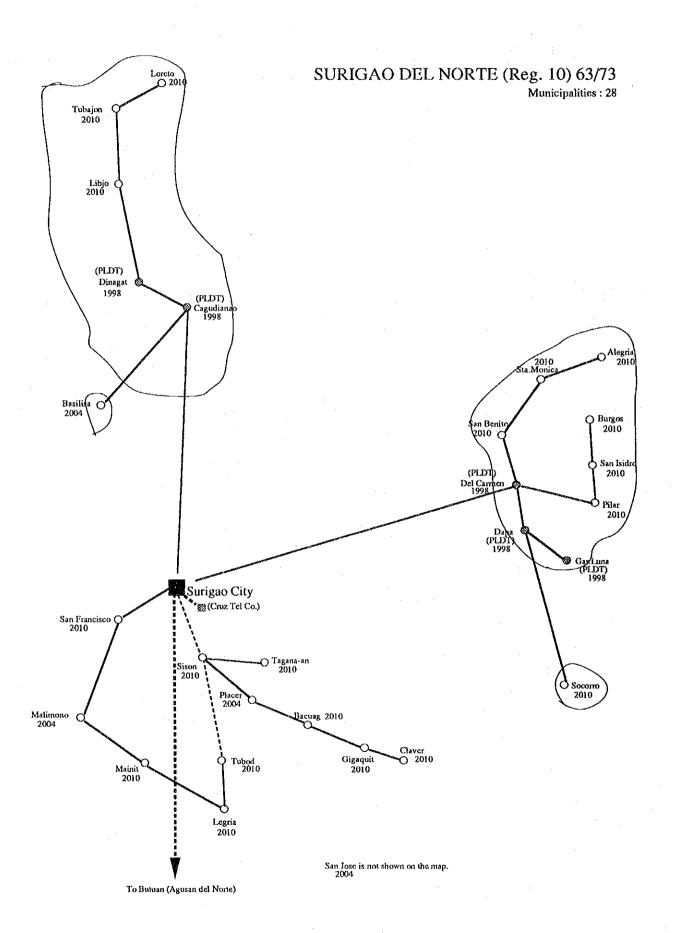
MISAMIS OCCIDENTAL (Reg. 10) 61/73

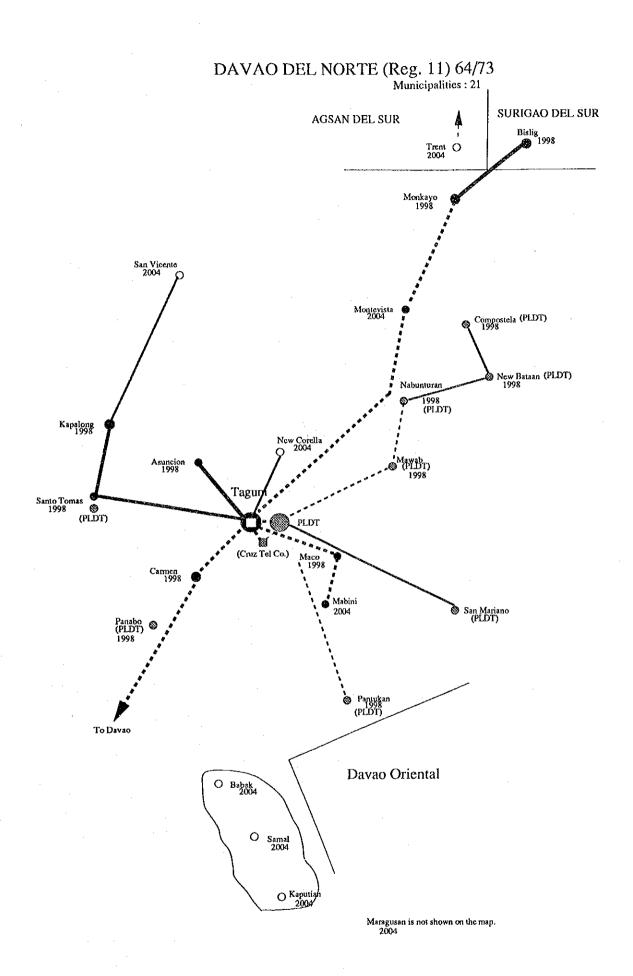
Municipalities: 17



Don Victoriano Chiongbian is not shown on the map. 2010

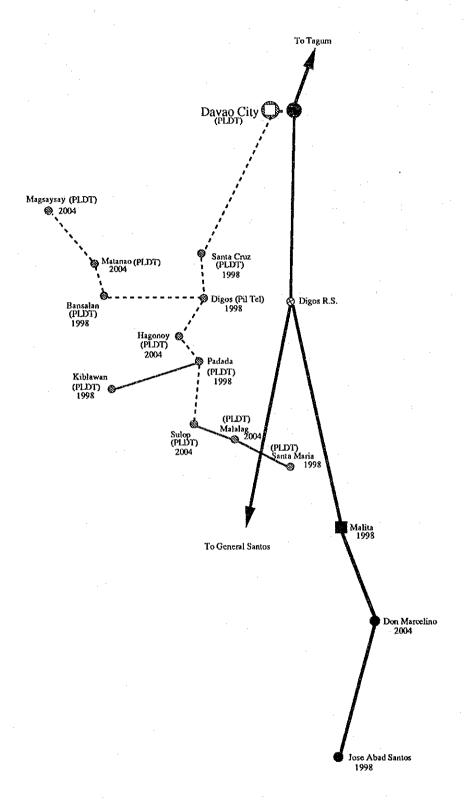




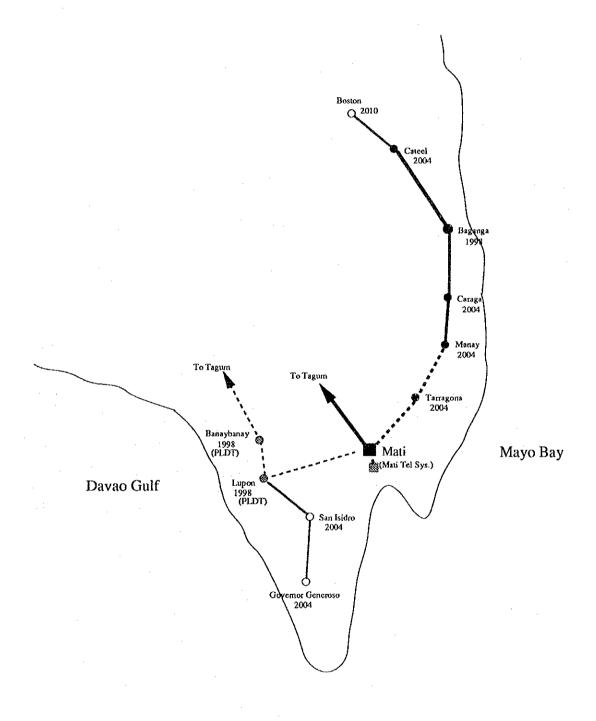


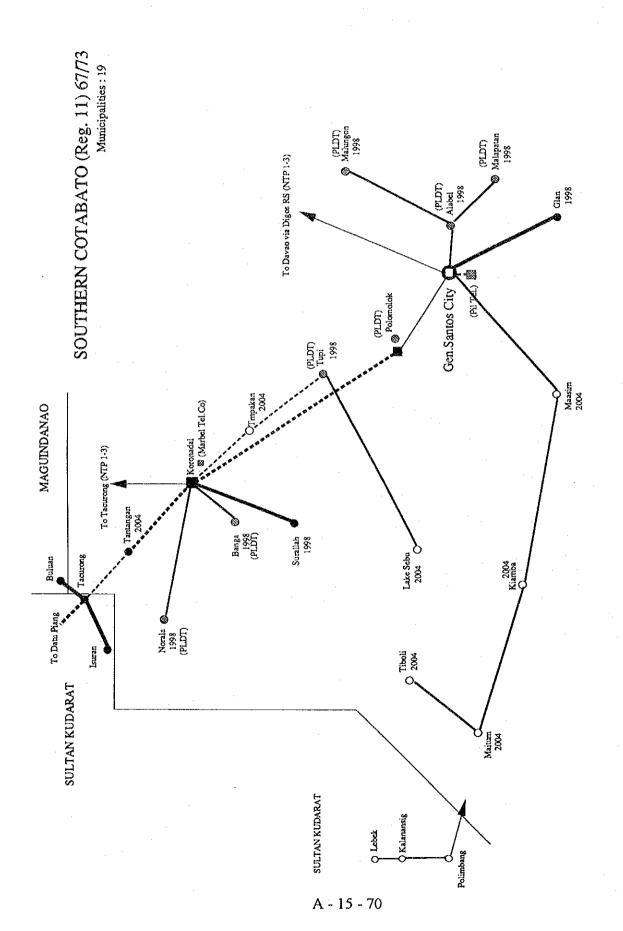
DAVAO DEL SUR (Reg. 11) 65/73

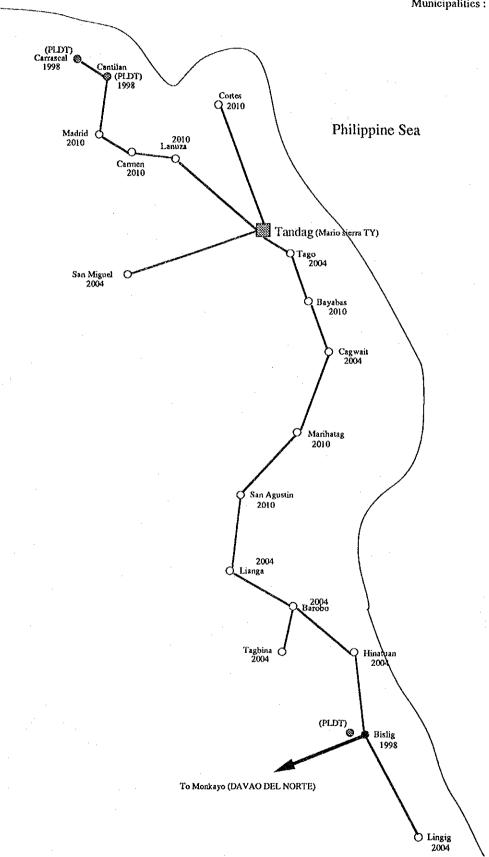
Municipalities: 16



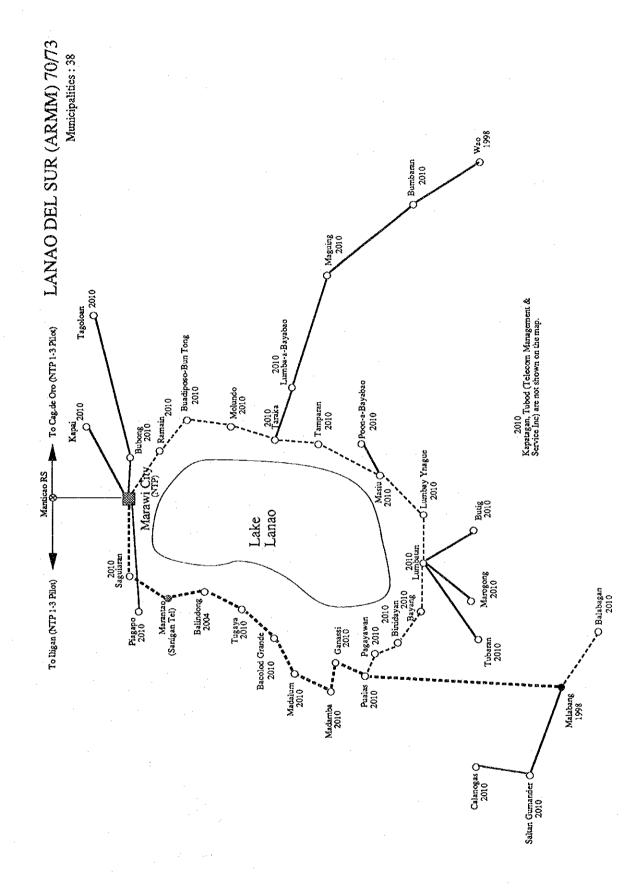
Sarangani is not shown on the map, 2010

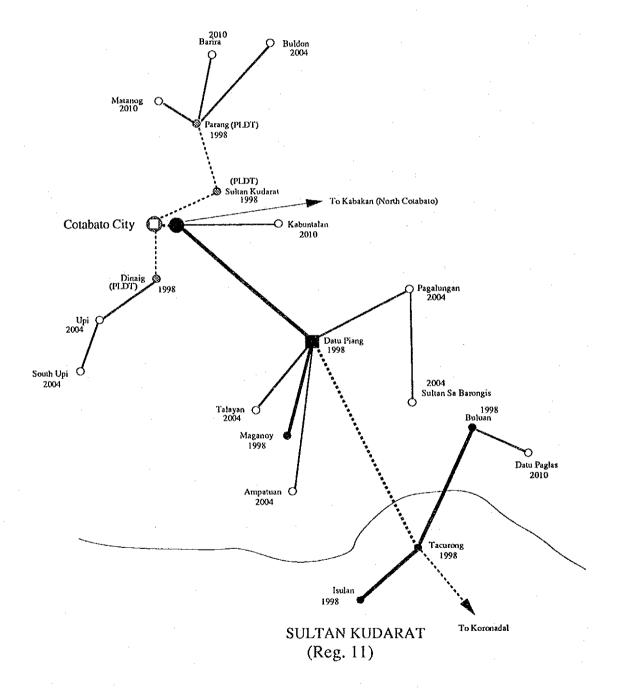


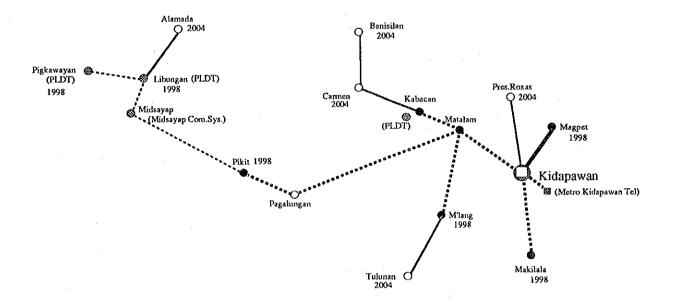




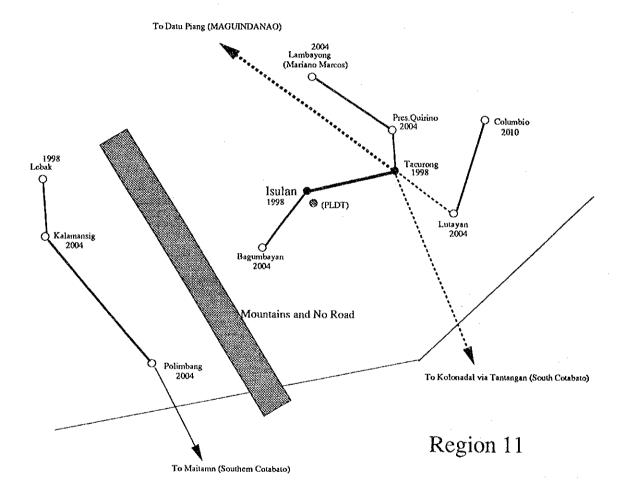
Cag, de Oro (NTP 1-3 Pilot)) Pantar 2010 (Maranao Tel Co.) Higan City (NTP) Linamon 2010 To Dipolog (NTP 1-3)
Bacolod
1998 San Kauswagan
(PLDT) 2010 Poon na Piagapo 2010 (PLDT)
Tinggal
1998 (PLDT) Maigo 1998 Magsaysay 2010 (PLDT) Kulambugan 1998 Municipalities: 23 LANAO DEL NORTE (Reg. 12) 69/73 (PLDT) 1998 Tubod (PLDT)
Baroy
1998 Sapad 2010 PLDT) Kapatagan 2004 Karumatan 2004







Aleosan, Antipas are not shown on the map. 2004 2010



San Ninoy Aquino is not shown on the map. 2004

APPENDIX 16

RECOMMENDATIONS

