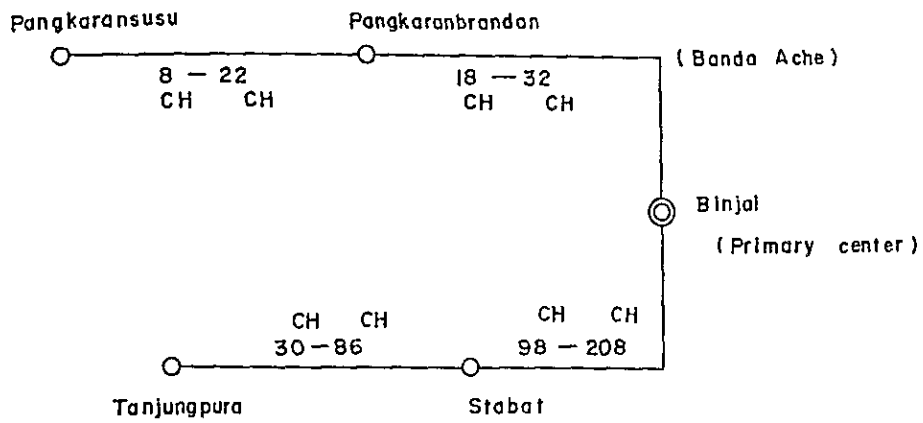
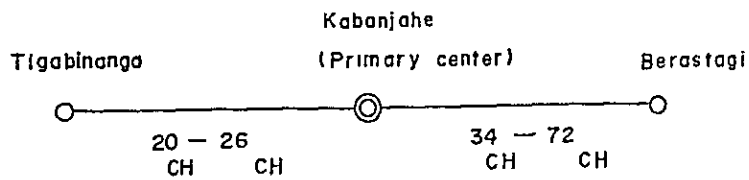


Langkat

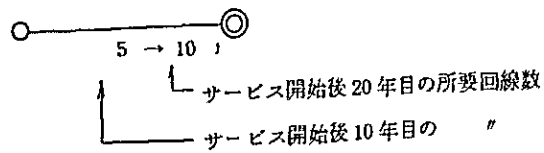


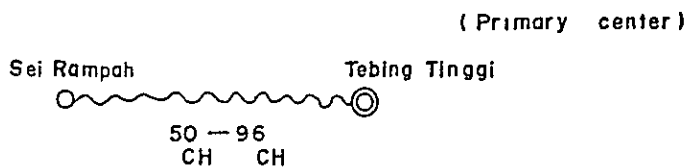
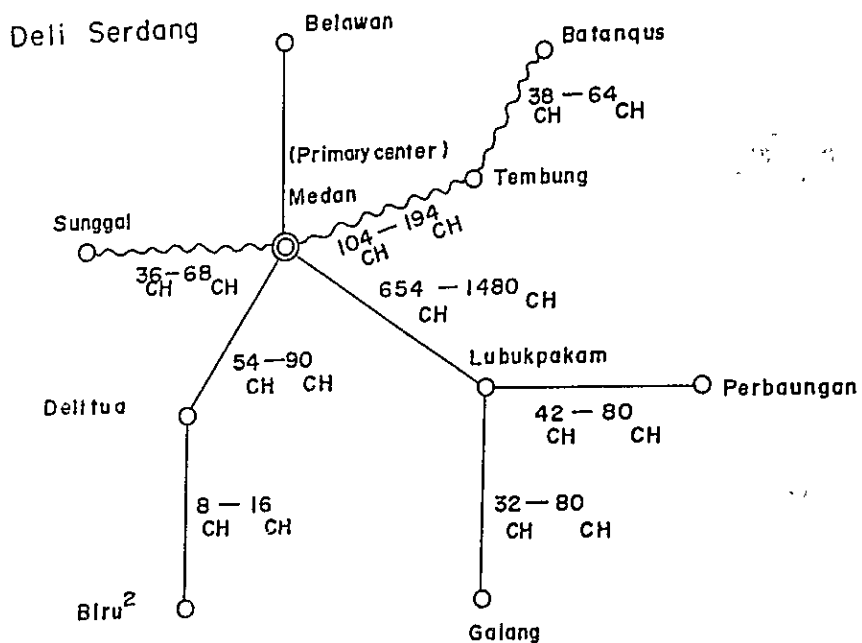
Karo



付図 - III - 2 - 4 - 2 - 2
無線伝送路の所要回線容量
(Langkat, Karo)

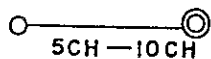
注:





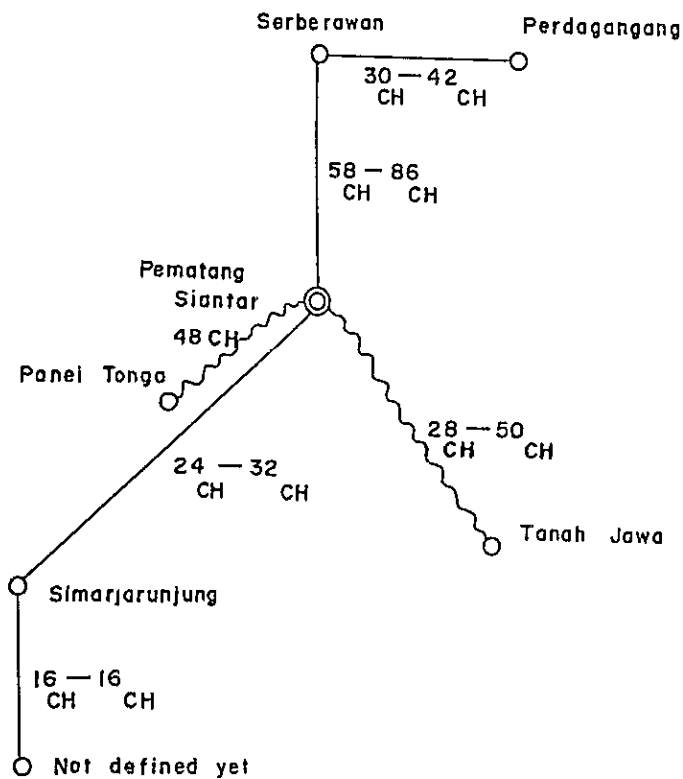
付図 - III - 2 - 4 - 2 - 3
無線伝送路の所要回線容量
(Deli Serdang)

注 : ○ — — — — — ⊙ はケーブル区間を示す



↑ 20 years after required telephone channel number
↑ 10 years after required telephone channel number

Simalungun

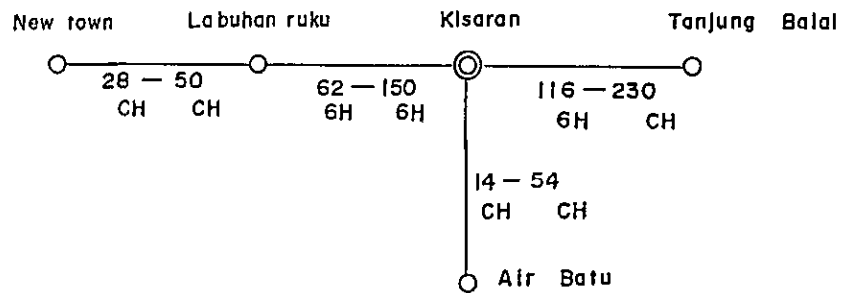


付図一Ⅲ-2-4-2-4
無線伝送路の所要回線容量
(Simalungun)

Remarks :

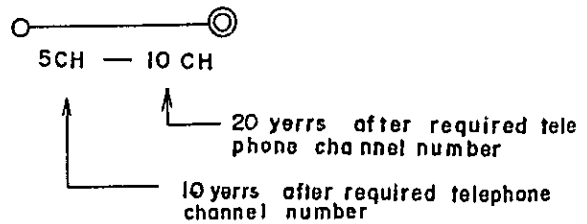
- Cable sections
- 5cH — 10cH
 - ↑ 20 years after required telephone channel number
 - ↑ 10 years after required telephannel number

Asahan

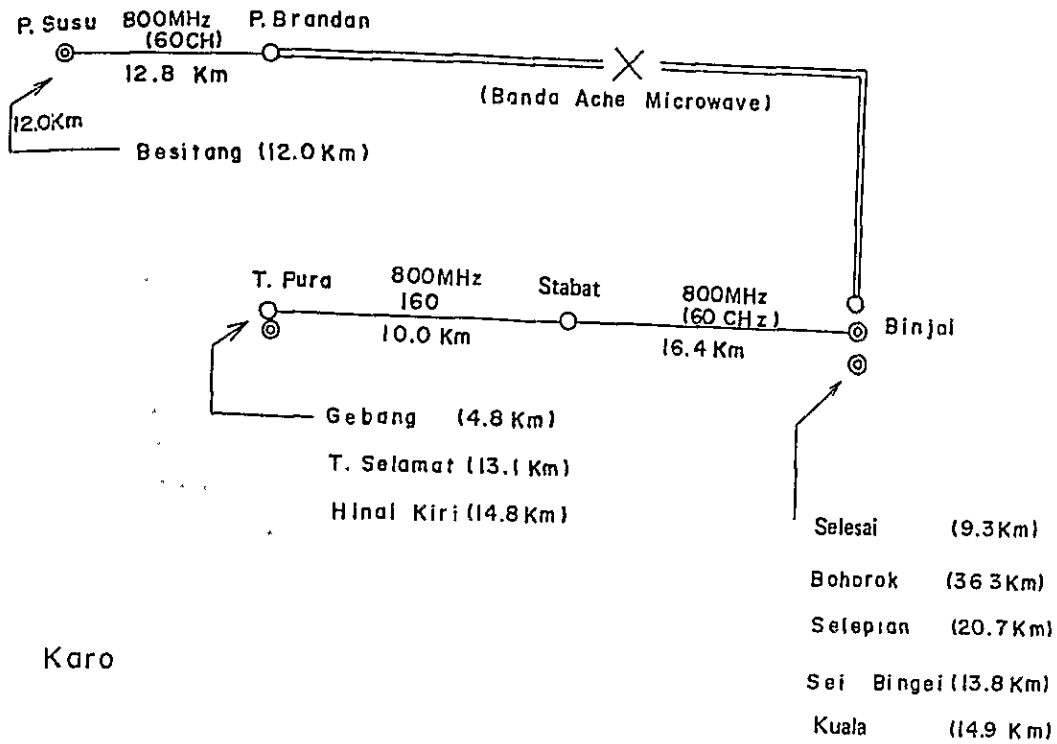


付図 - III - 2 - 4 - 2 - 5
無線伝送路の所要回線容量
(Asaban)

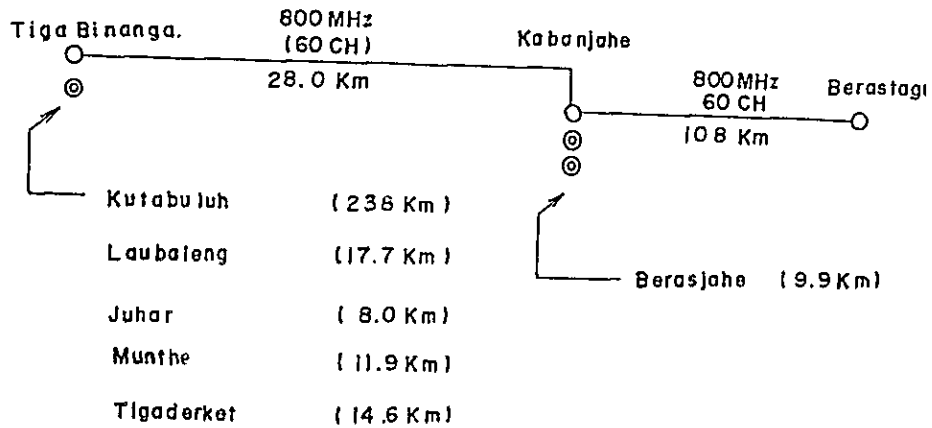
Remarks :



Langkat



Karo

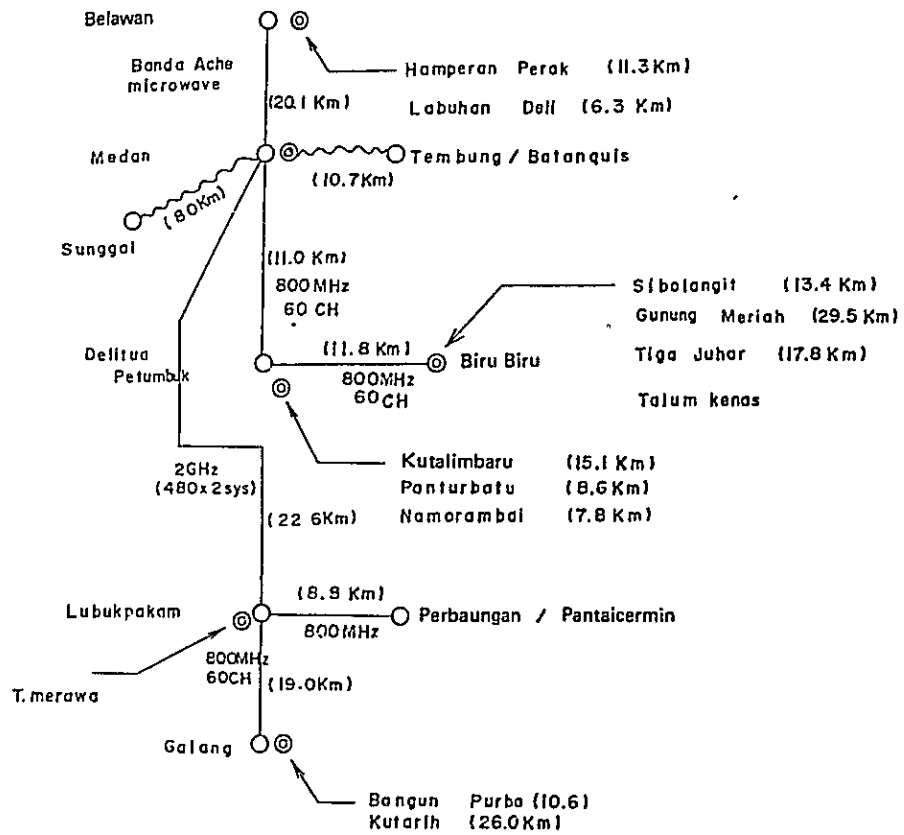


注

- 端局 (電話局)
- ◎ 集中局
- ⊙ M A S の基地局
- — ○ 800 MHz 又は 2000 MHz の無線伝送路
- ↗ M A S 伝送路とその集中する局所
- ⊕ — ⊕ 既設無線伝送路

付図—Ⅲ—2—4—2—8
無線伝送路 (含 M A S) 構成

Deli Serdang I

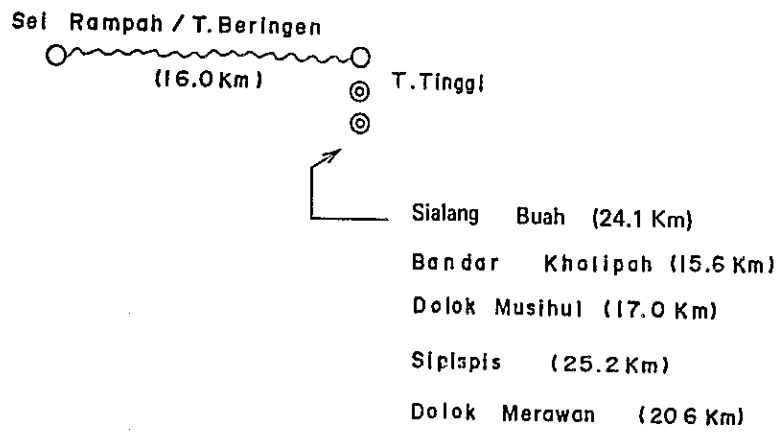


付図-III-2-4-2-9

無線伝送路(含むMAS)構成

(注は付図-III-2-4-2-8を参照)

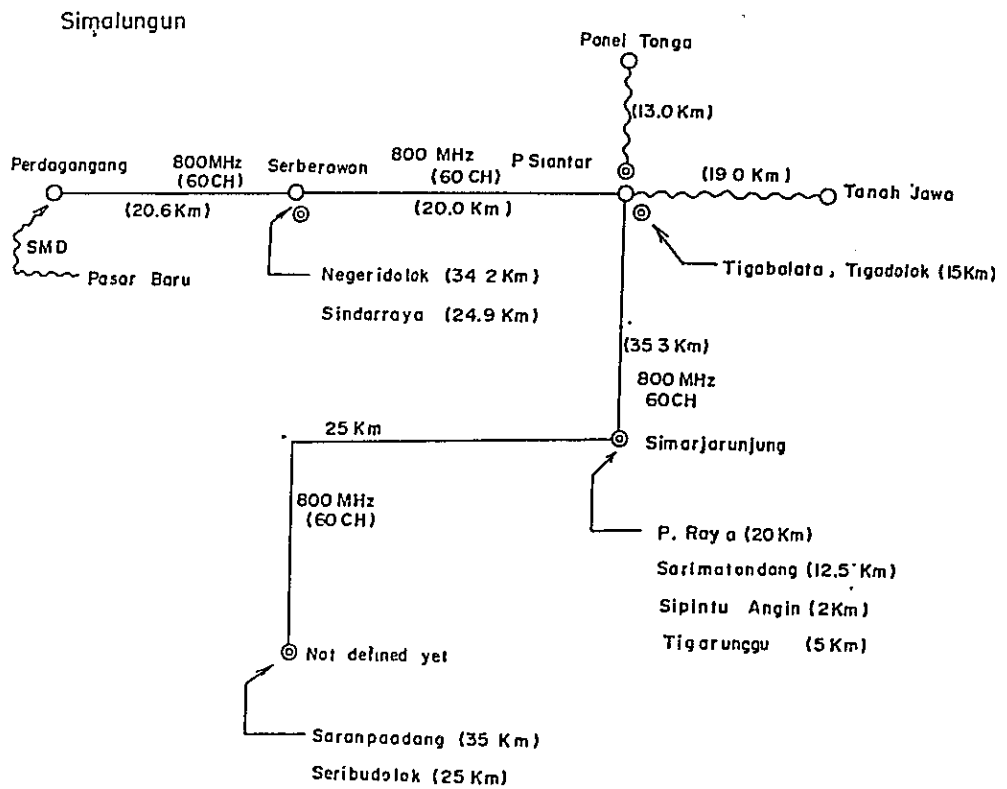
Deli Serdang II



付図 - III - 2 - 4 - 2 - 10

無線伝送路 (含むMAS) 構成

(注は付図 - III - 2 - 4 - 2 - 8 を参照)

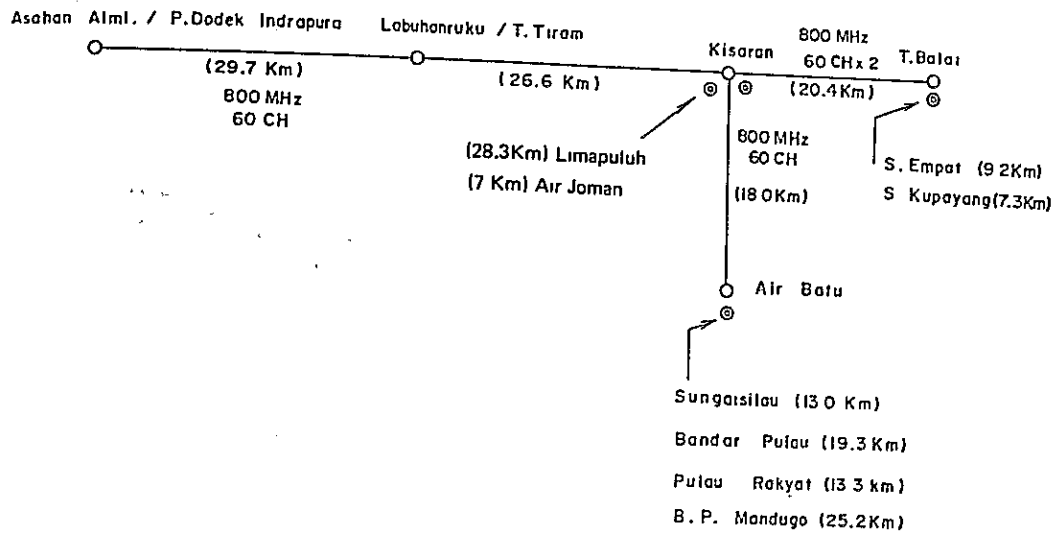


付図-Ⅲ-2-4-2-11

無線伝送路(含むMAS)構成

(注は付図-Ⅲ-2-4-2-8を参照)

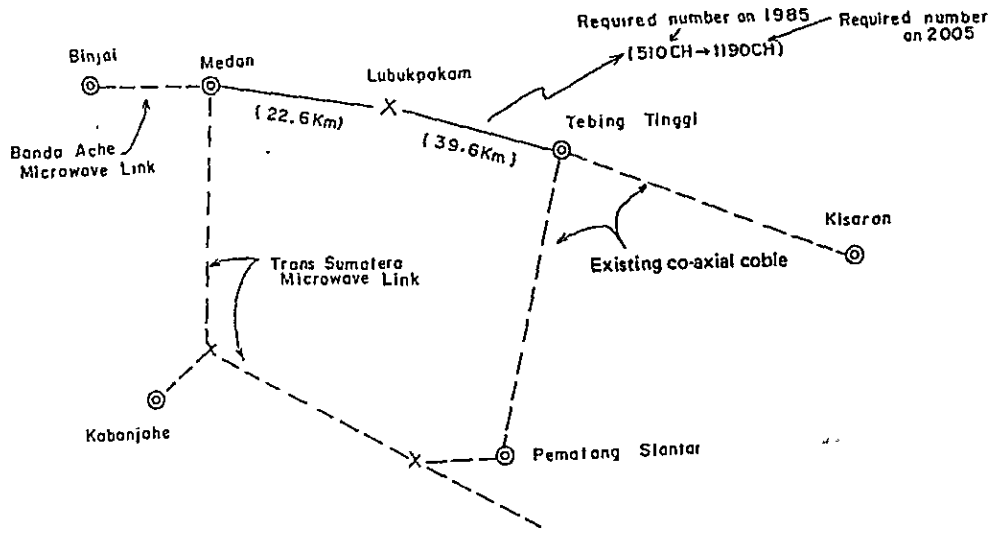
Asahan



付図-Ⅲ-2-4-2-12

無線伝送路(含むMAS)構成

(注は付図-Ⅲ-2-4-2-8を参照)



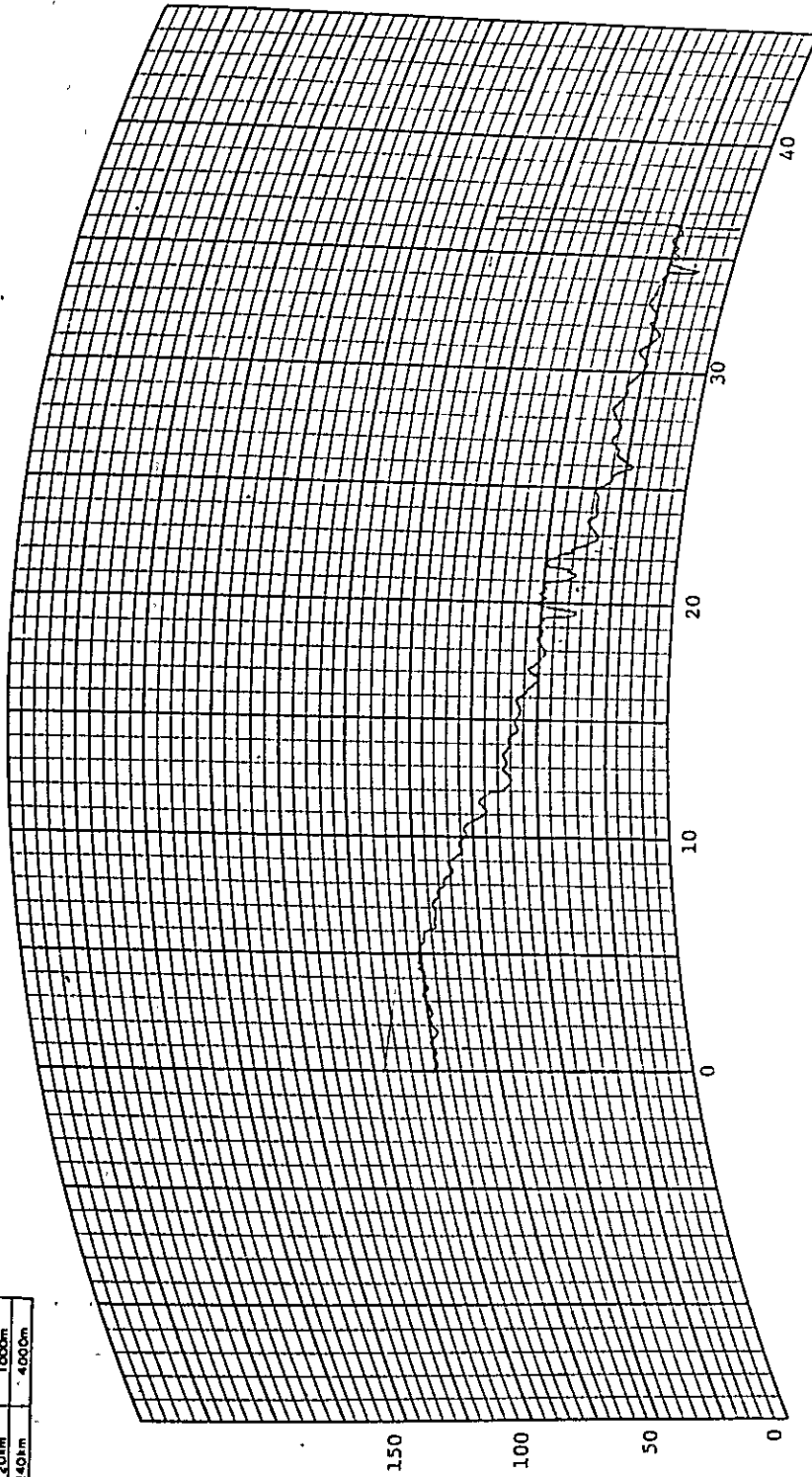
付図-Ⅲ-2-4-2-13

集中局～中心局無線伝送路の構成

Langkat

PATH PROFILE (4/3 RADIUS)

FULL SCALE	
DISTANCE	HEIGHT
60km	250m
120km	1000m
240km	4000m



Bohorok

付図 III - 2 - 4 - 2 - 15

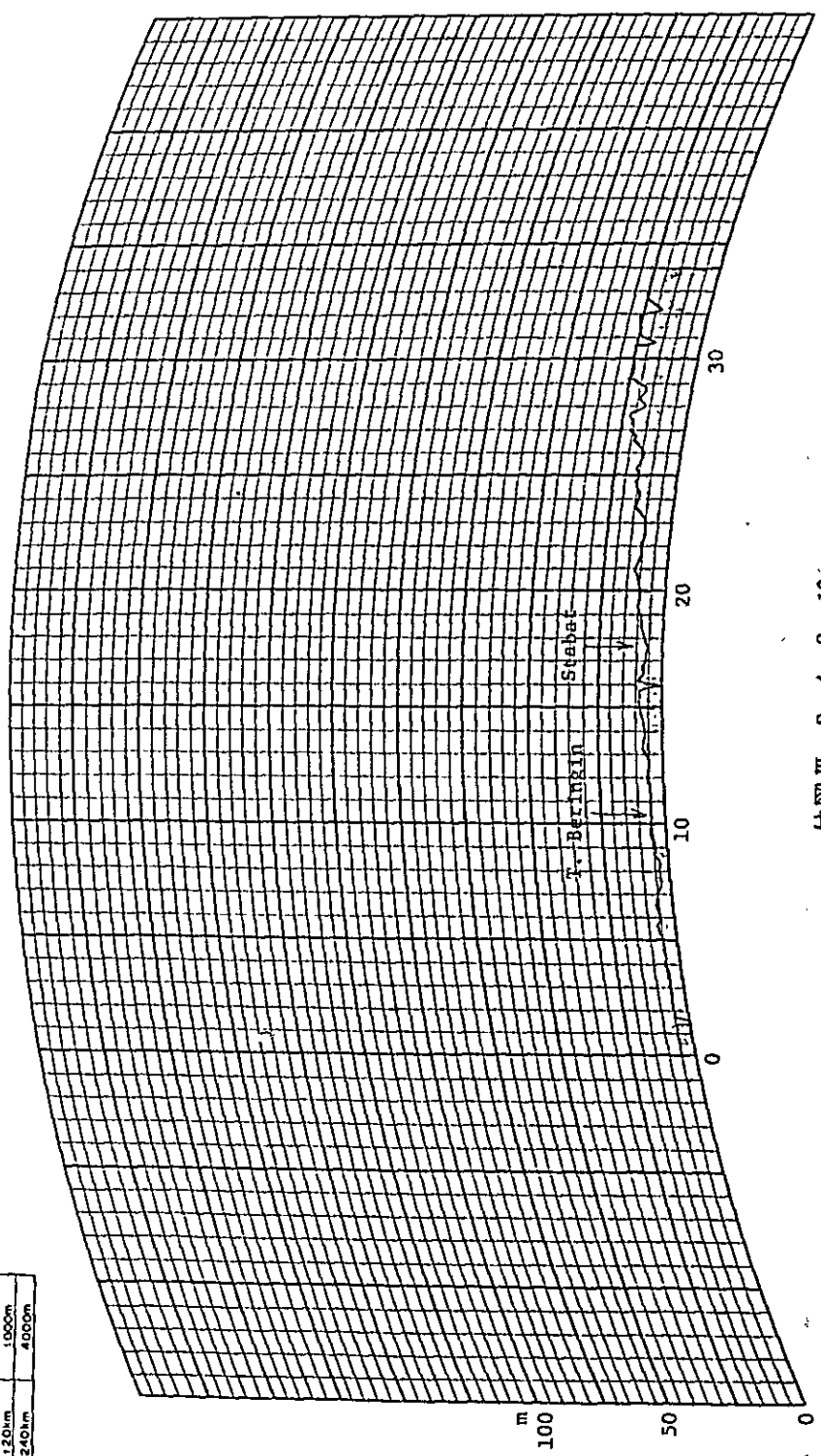
SITE _____
GROUND ELEVATION 100 m
ANTENNA HEIGHT _____ m

SITE Binjai
GROUND ELEVATION 75 m
ANTENNA HEIGHT _____ m

DISTANCE 36.3 km

Langkat
 PATH PROFILE (4/3 RADIUS)

FULL SCALE	
DISTANCE	HEIGHT
60km	250m
120km	1000m
240km	4000m



付図 III - 2 - 4 - 2 - 16

SITE Tanjung Pura
 GROUND ELEVATION. 5 m
 ANTENNA HEIGHT. _____ m

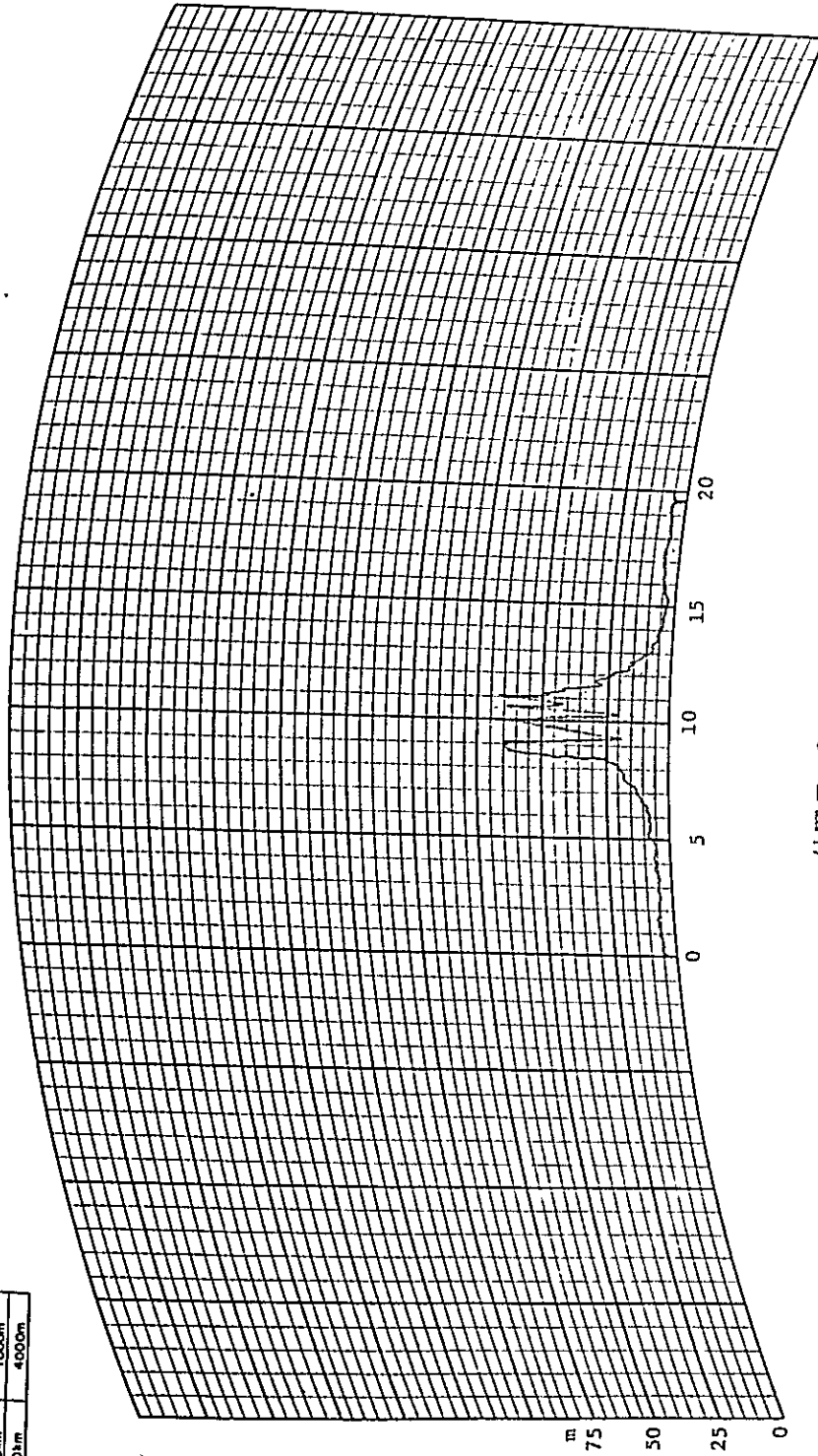
SITE Binjal
 GROUND ELEVATION 25 m
 ANTENNA HEIGHT _____ m

DISTANCE 34.0 km

Langkat
PATH PROFILE (4/3 RADIUS)

FULL SCALE

DISTANCE	HEIGHT
50km	250m
120km	1000m
240km	4000m



付図 III - 2 - 4 - 2 - 17

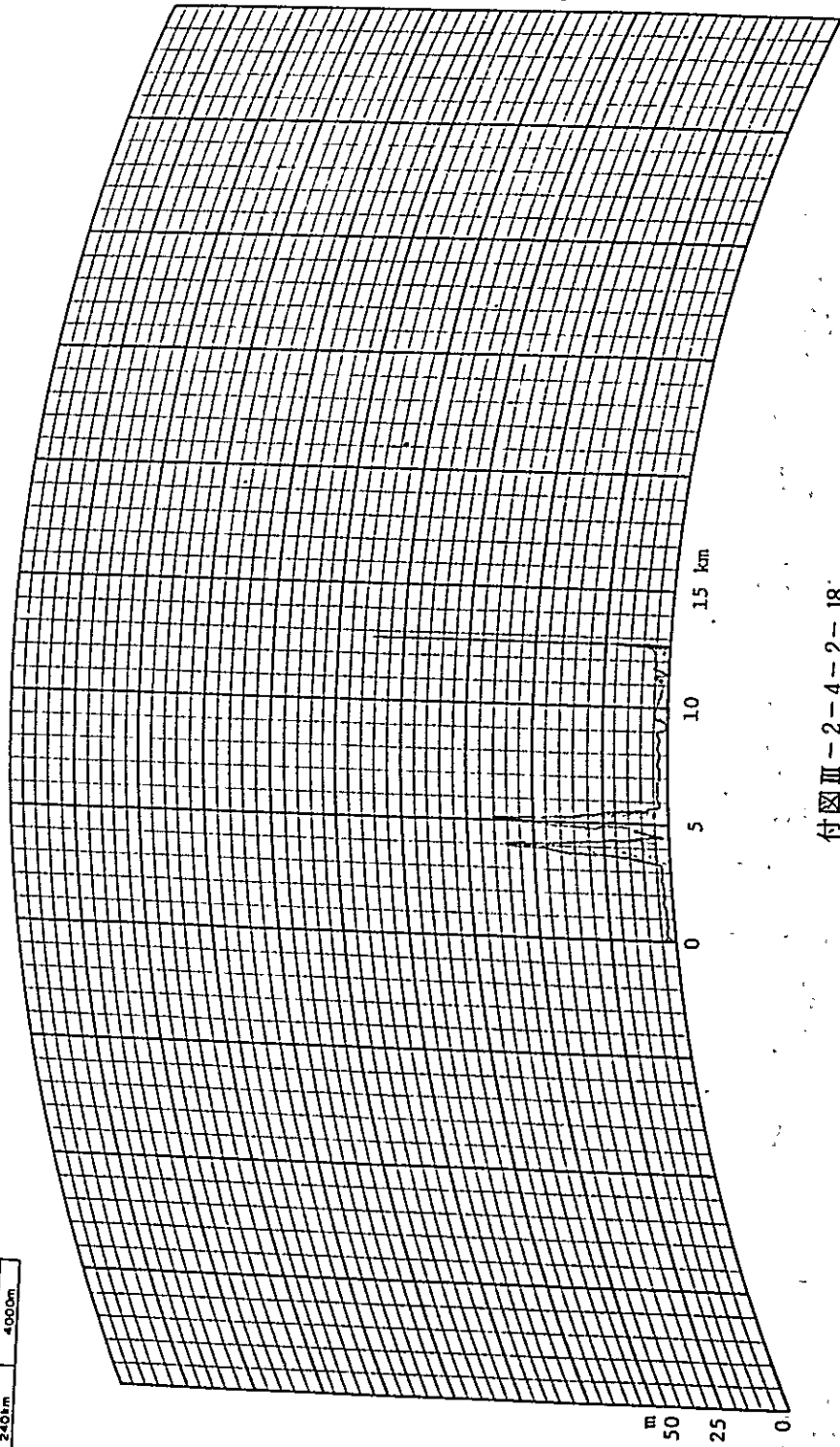
SITE Pangkalan Brandan
 GROUND ELEVATION 5 m
 ANTENNA HEIGHT 5 m

SITE Tanjung Pura
 GROUND ELEVATION 5 m
 ANTENNA HEIGHT 5 m

DISTANCE 19.6 km

FULL SCALE	
DISTANCE	HEIGHT
60km	250m
120km	1000m
240km	4000m

Langkat
PATH PROFILE (4/3 RADIUS)



付図 III - 2 - 4 - 2 - 18

SITE Pangkalan Susu
GROUND ELEVATION 5 m
ANTENNA HEIGHT 25 m

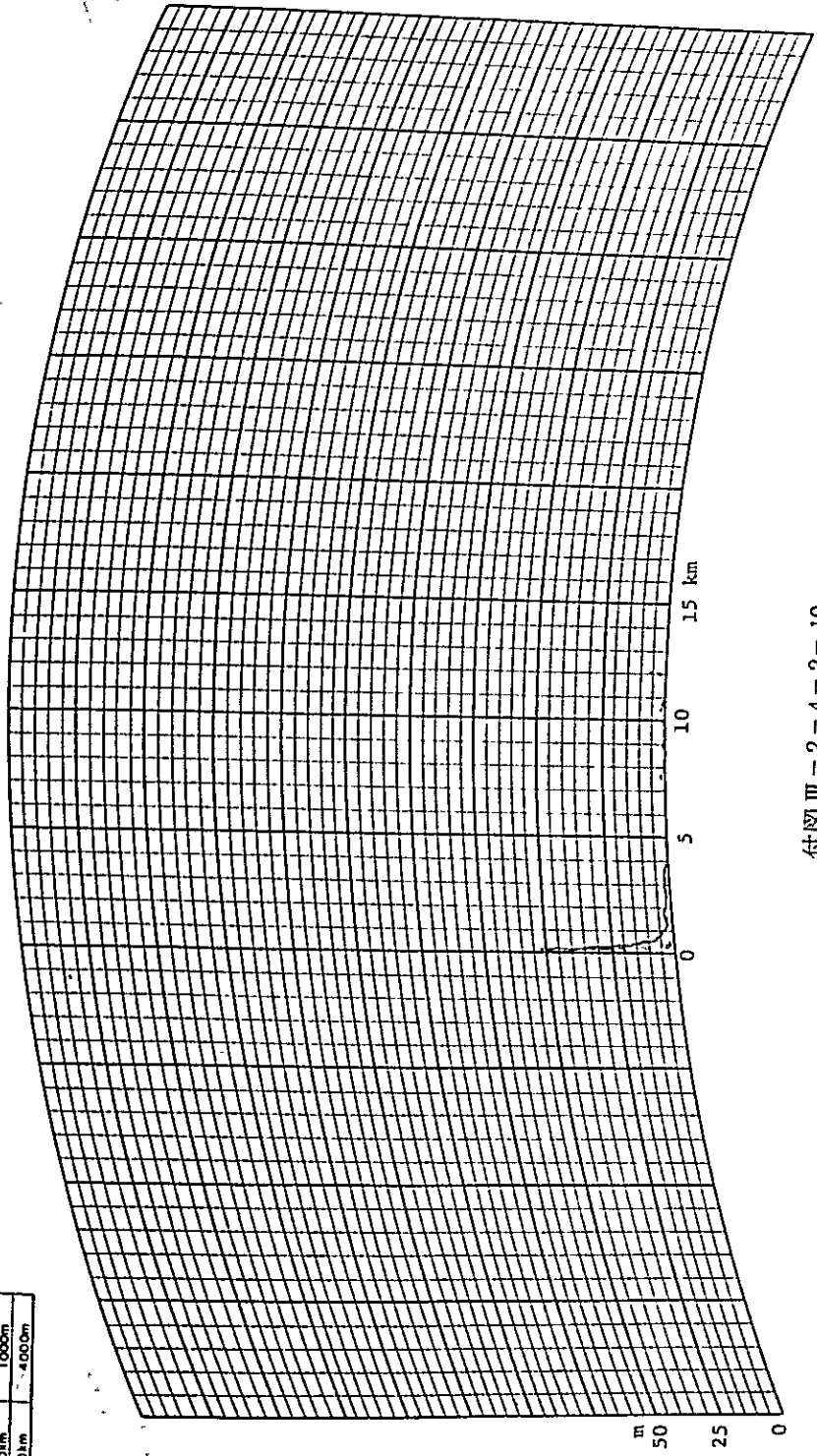
SITE Pangkalan Brandan
GROUND ELEVATION 5 m
ANTENNA HEIGHT 25 m

DISTANCE 12.8 km

Langkat
 PATH PROFILE (4/3 RADIUS)

FULL SCALE

DISTANCE	HEIGHT
60 km	250m
120 km	1000m
240 km	4000m



付図 III - 2 - 4 - 2 - 19

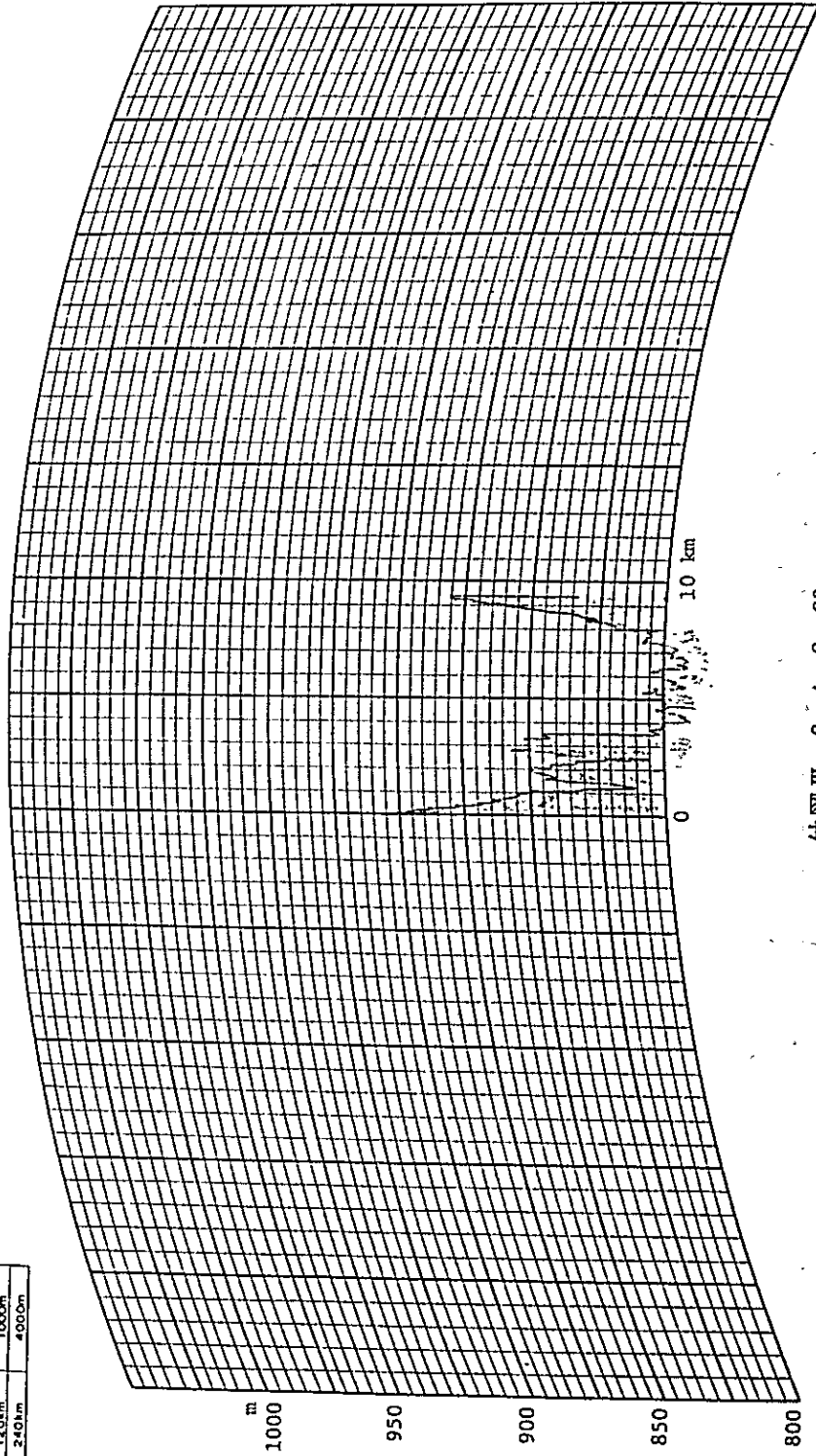
SITE Besitang
 GROUND ELEVATION 50 m
 ANTENNA HEIGHT _____ m

SITE Pangkaxan Susu
 GROUND ELEVATION 5 m
 ANTENNA HEIGHT _____ m

DISTANCE 12.0 km

Karo
 PATH PROFILE (4/3 RADIUS)

FULL SCALE	
DISTANCE	HEIGHT
60km	250m
120km	1000m
240km	4000m



SITE Kutabuluh
 GROUND ELEVATION 900 m
 ANTENNA HEIGHT m

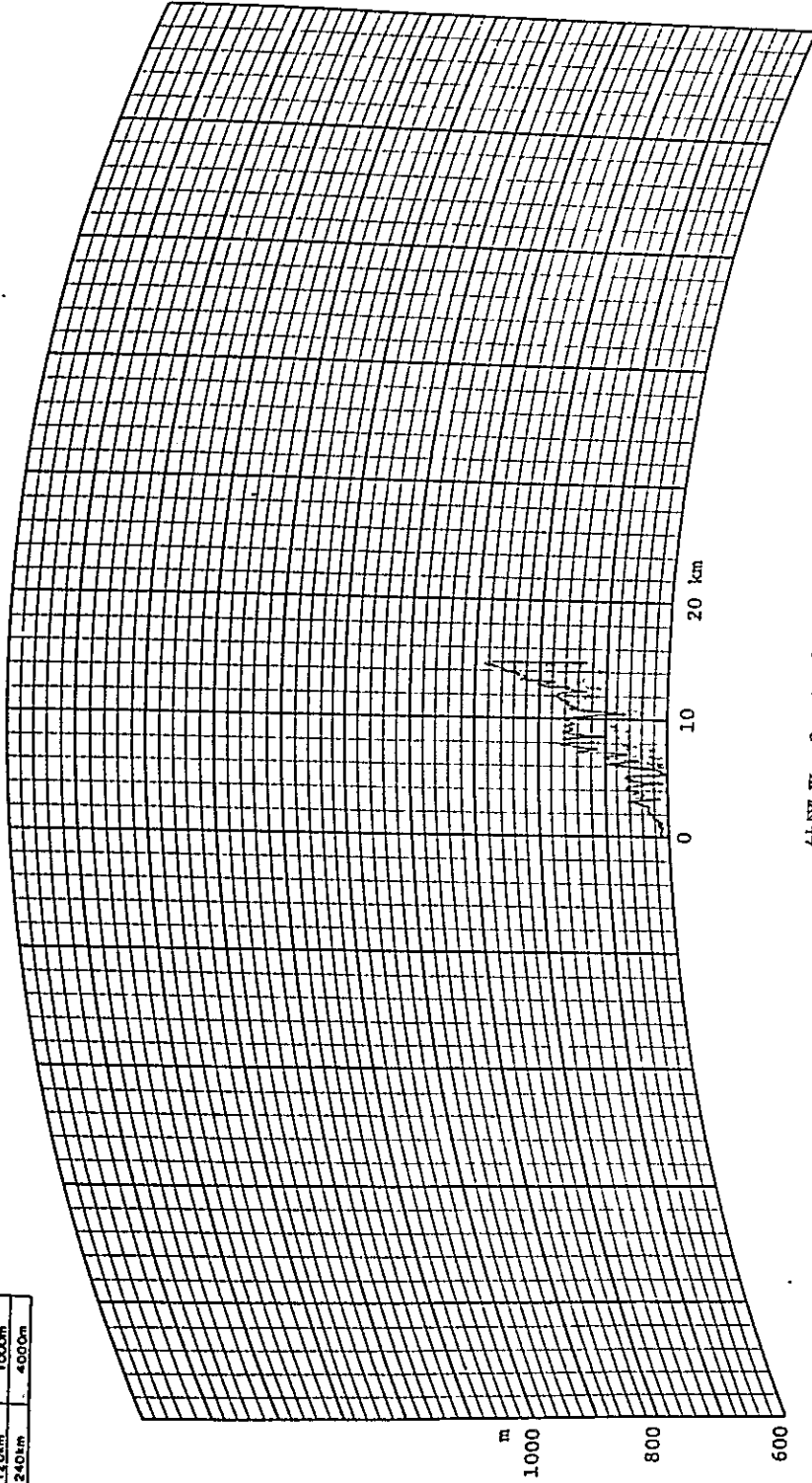
SITE Tigaderket
 GROUND ELEVATION 880 m
 ANTENNA HEIGHT m

付図Ⅲ-2-4-2-20

DISTANCE 9.3 km

Karo
PATH PROFILE (4/3 RADIUS)

FULL SCALE	
DISTANCE	HEIGHT
60km	250m
120km	1000m
240km	4000m



SITE Tigabinanga
GROUND ELEVATION 610 m
ANTENNA HEIGHT _____ m

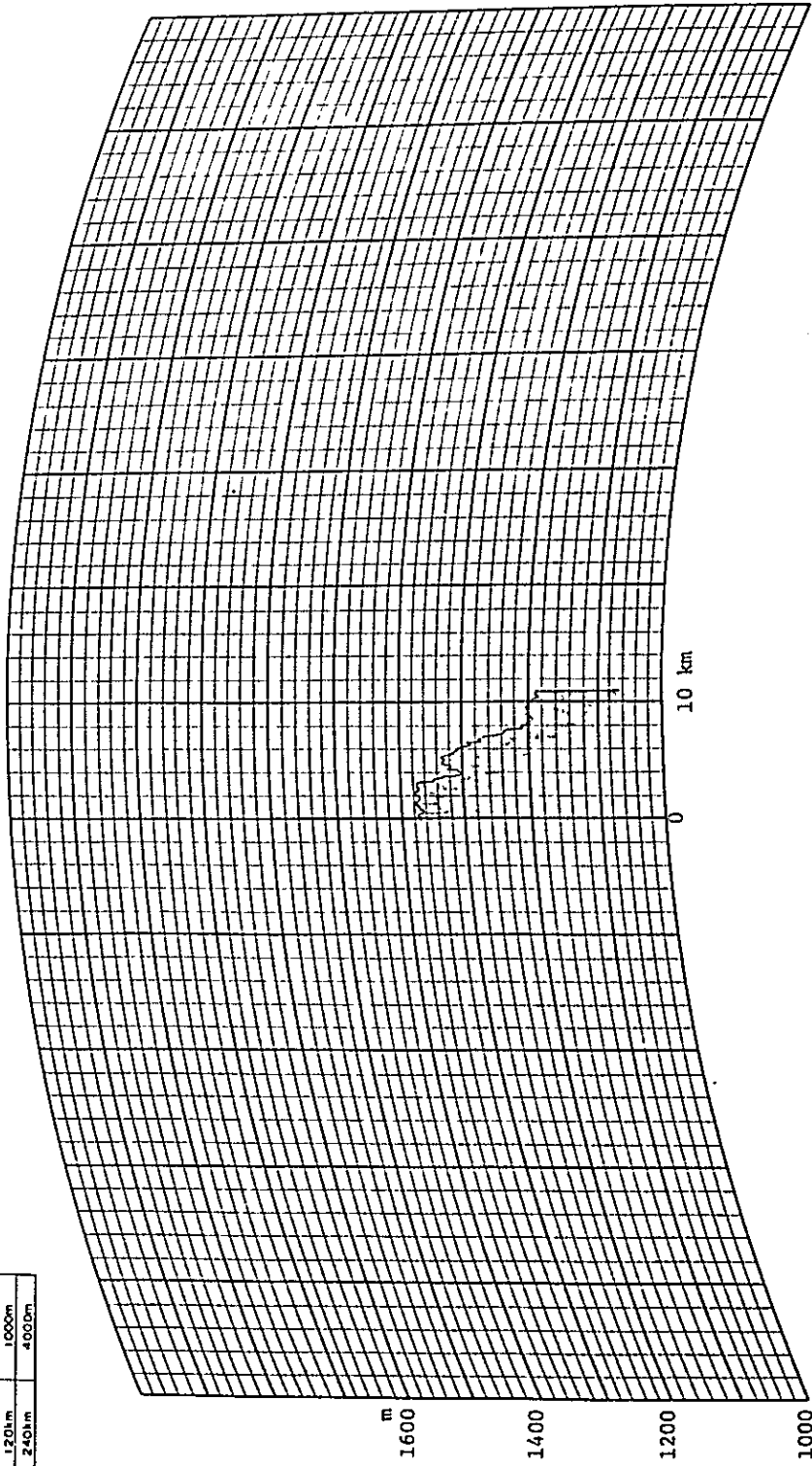
付図 Ⅲ - 2 - 4 - 2 - 21

SITE Tigaderkek
GROUND ELEVATION 880 m
ANTENNA HEIGHT _____ m

DISTANCE 14.5 km

Karo
 PATH PROFILE (4/3 RADIUS)

FULL SCALE	
DISTANCE	HEIGHT
50 km	250 m
120 km	1000 m
240 km	4000 m



付図 III - 2 - 4 - 2 - 22

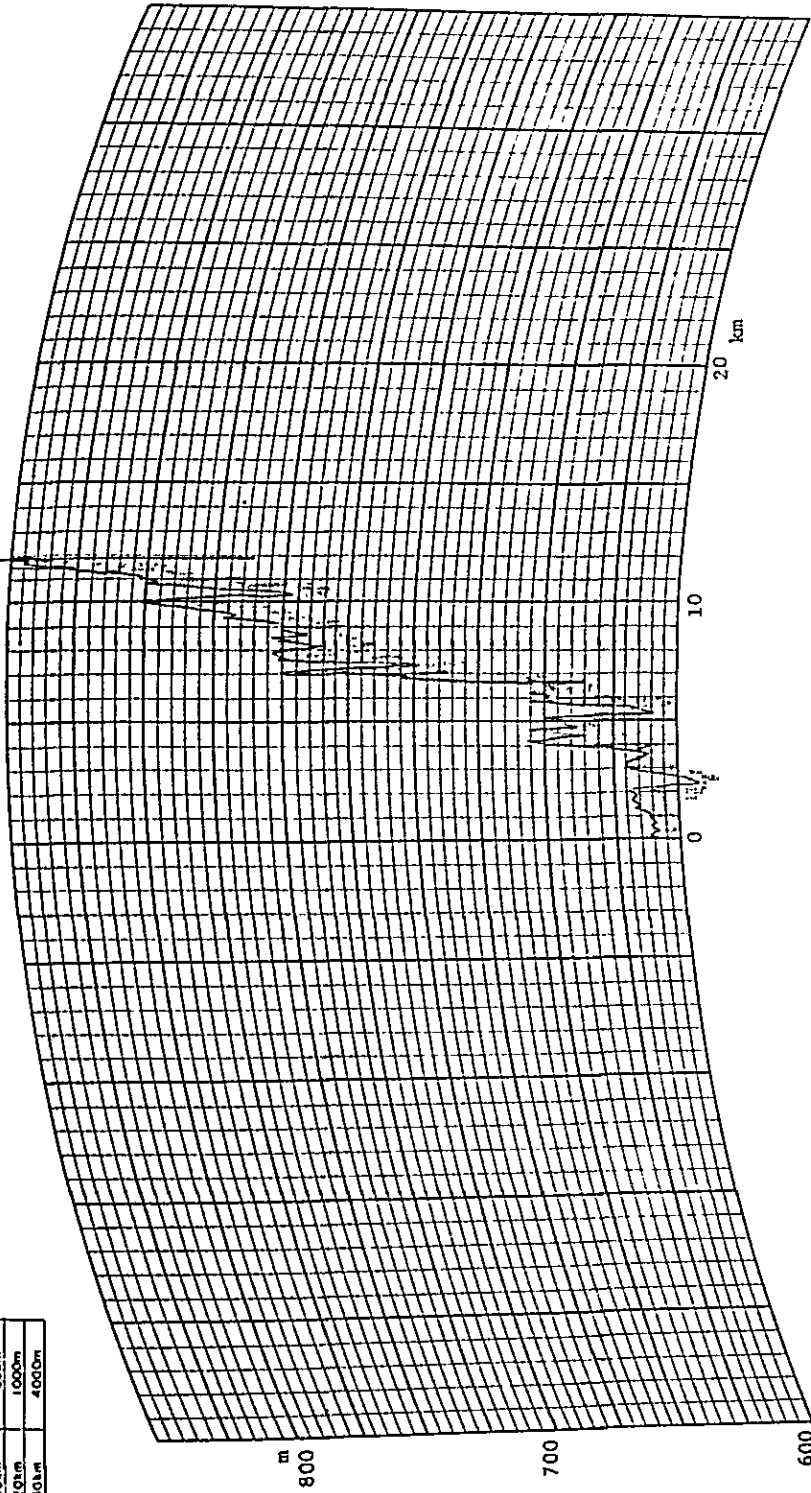
SITE Barastagi
 GROUND ELEVATION 1370 m
 ANTENNA HEIGHT m

SITE Kabaniahe
 GROUND ELEVATION 1190 m
 ANTENNA HEIGHT m

DISTANCE 10.8 km

Karo
PATH PROFILE (4/3 RADIUS)

FULL SCALE	
DISTANCE	HEIGHT
80km	230m
120km	1000m
240km	4000m



付図 III - 2 - 4 - 2 - 23

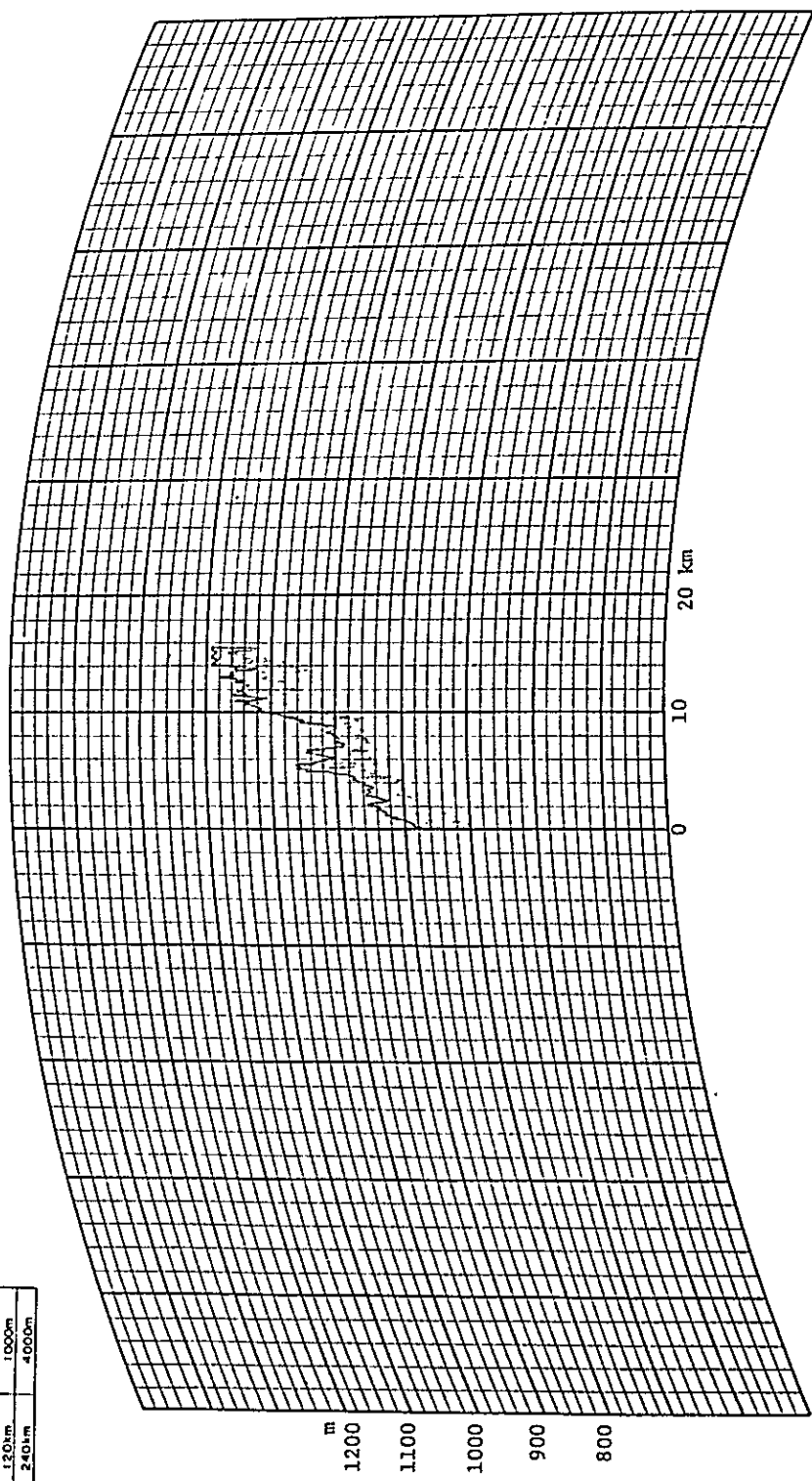
SITE Iigabinanga
 GROUND ELEVATION 610 m
 ANTENNA HEIGHT _____ m

SITE Munche
 GROUND ELEVATION 850 m
 ANTENNA HEIGHT _____ m

DISTANCE 11.9 km

Kazo
PATH PROFILE (4/3 RADIUS)

FULL SCALE	
DISTANCE	HEIGHT
60km	250m
120km	1000m
240km	4000m



付図 III - 2 - 4 - 2 - 24

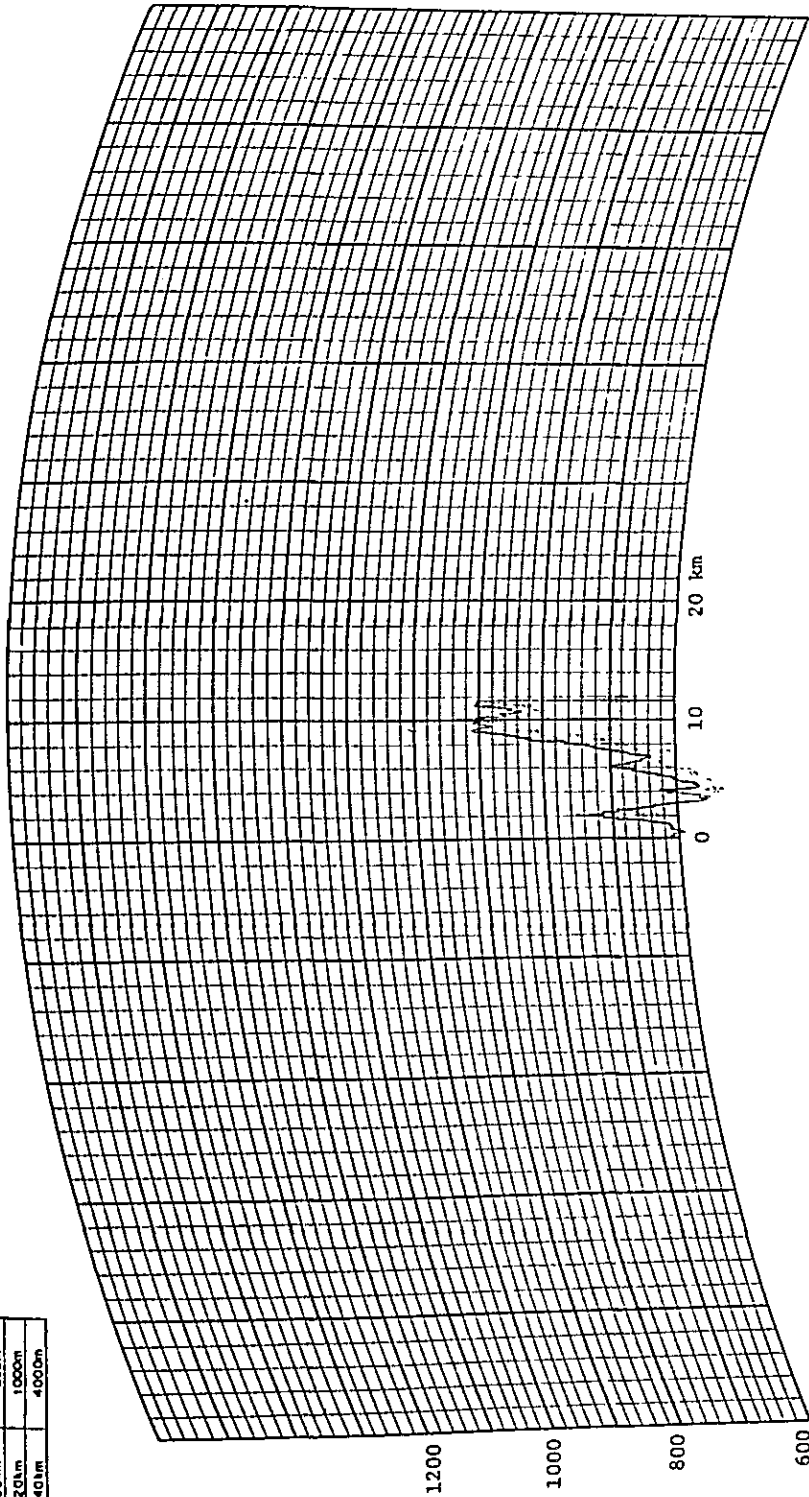
SITE: Tigaderket
GROUND ELEVATION: 880 m
ANTENNA HEIGHT: _____ m

SITE: Kabanjahe
GROUND ELEVATION: 1190 m
ANTENNA HEIGHT: _____ m

DISTANCE: 15.6 km

Karo
PATH PROFILE (4/3 RADIUS)

FULL SCALE	
DISTANCE	HEIGHT
60km	250m
120km	1000m
240km	4000m



付図 III - 2 - 4 - 2 - 25

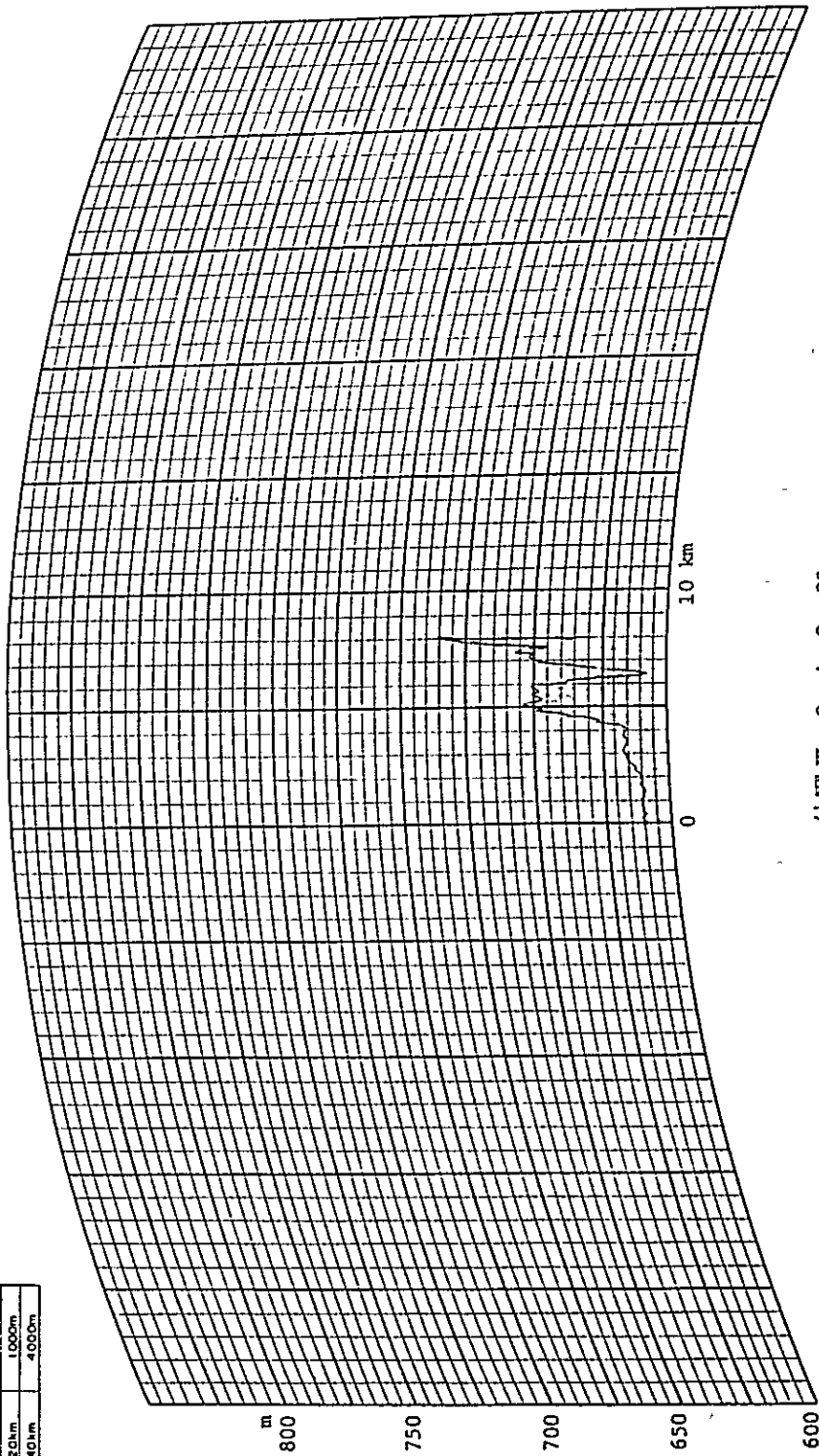
SITE Tigabinanga
 GROUND ELEVATION 610 m
 ANTENNA HEIGHT m

SITE Kuta Buluh
 GROUND ELEVATION 900 m
 ANTENNA HEIGHT m

DISTANCE 11.6 km

Karo
PATH PROFILE (4/3 RADIUS)

FULL SCALE	
DISTANCE	HEIGHT
60 km	250 m
120 km	1000 m
240 km	4000 m



付図 III - 2 - 4 - 2 - 26

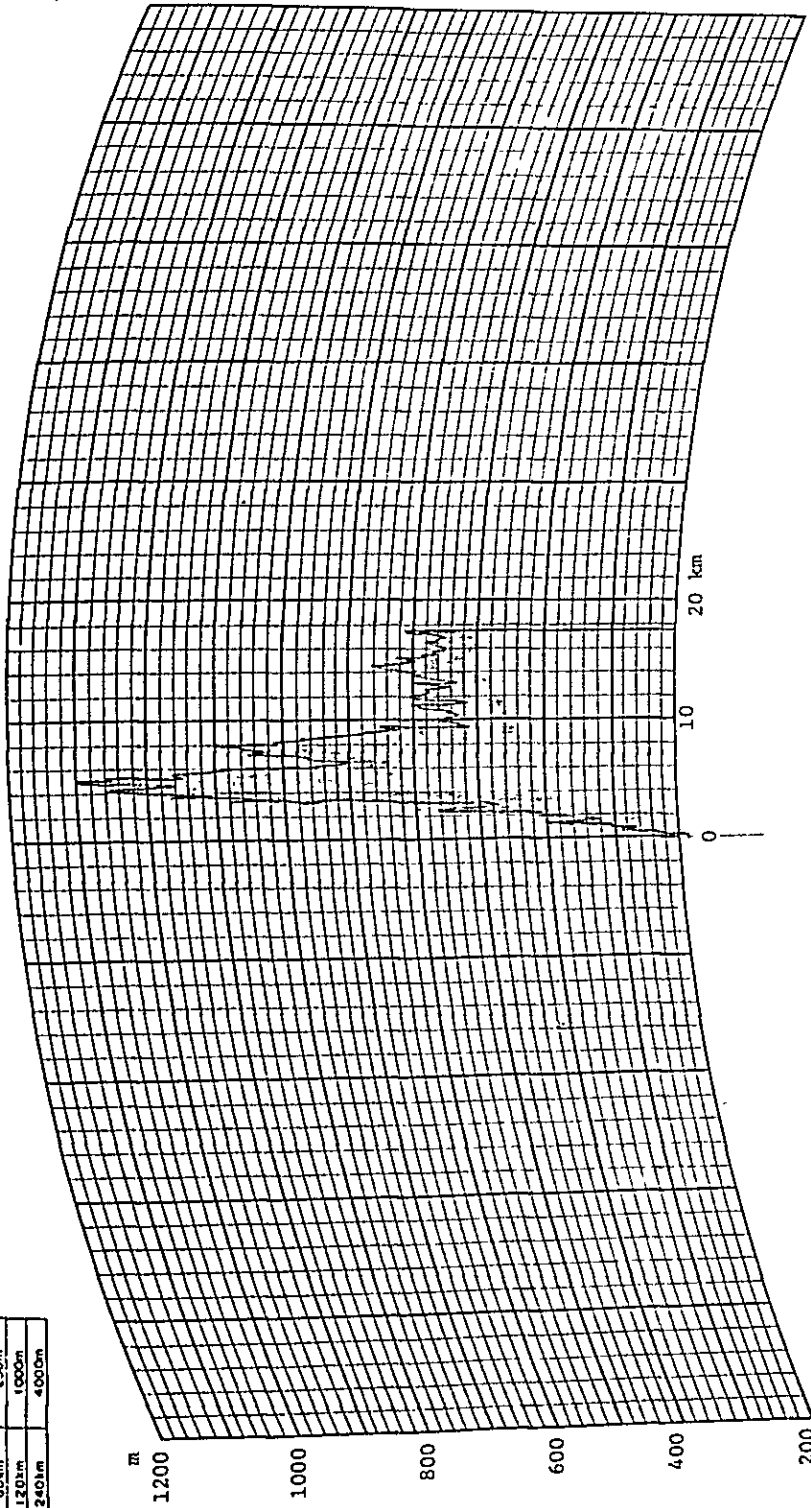
SITE Tiga binanga
GROUND ELEVATION 610 m
ANTENNA HEIGHT: _____ m

SITE Dihar
GROUND ELEVATION 680 m
ANTENNA HEIGHT _____ m

DISTANCE 8.0 km

Karo
PATH PROFILE (4/3 RADIUS)

FULL SCALE	
DISTANCE	HEIGHT
80km	250m
120km	1000m
240km	4000m



付図 III - 2 - 4 - 2 - 27

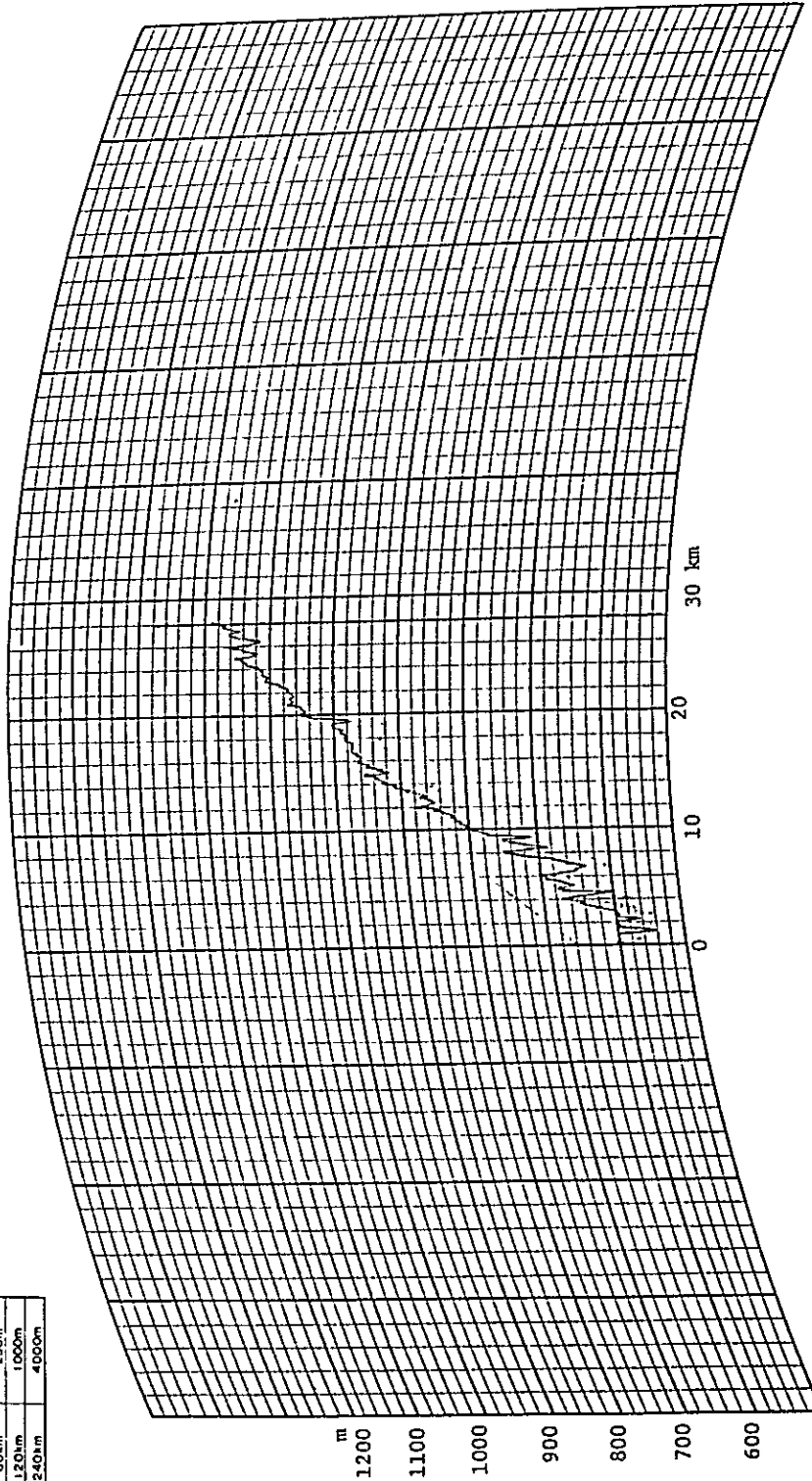
SITE Laubaleng
 GROUND ELEVATION 180 m
 ANTENNA HEIGHT _____ m

SITE Tigabinauga
 GROUND ELEVATION 610 m
 ANTENNA HEIGHT _____ m

DISTANCE 17.7 km

Karo
 PATH PROFILE (4/3 RADIUS)

FULL SCALE	
DISTANCE	HEIGHT
50 km	250m
120 km	1000m
240 km	4000m



付図 III - 2 - 4 - 2 - 28

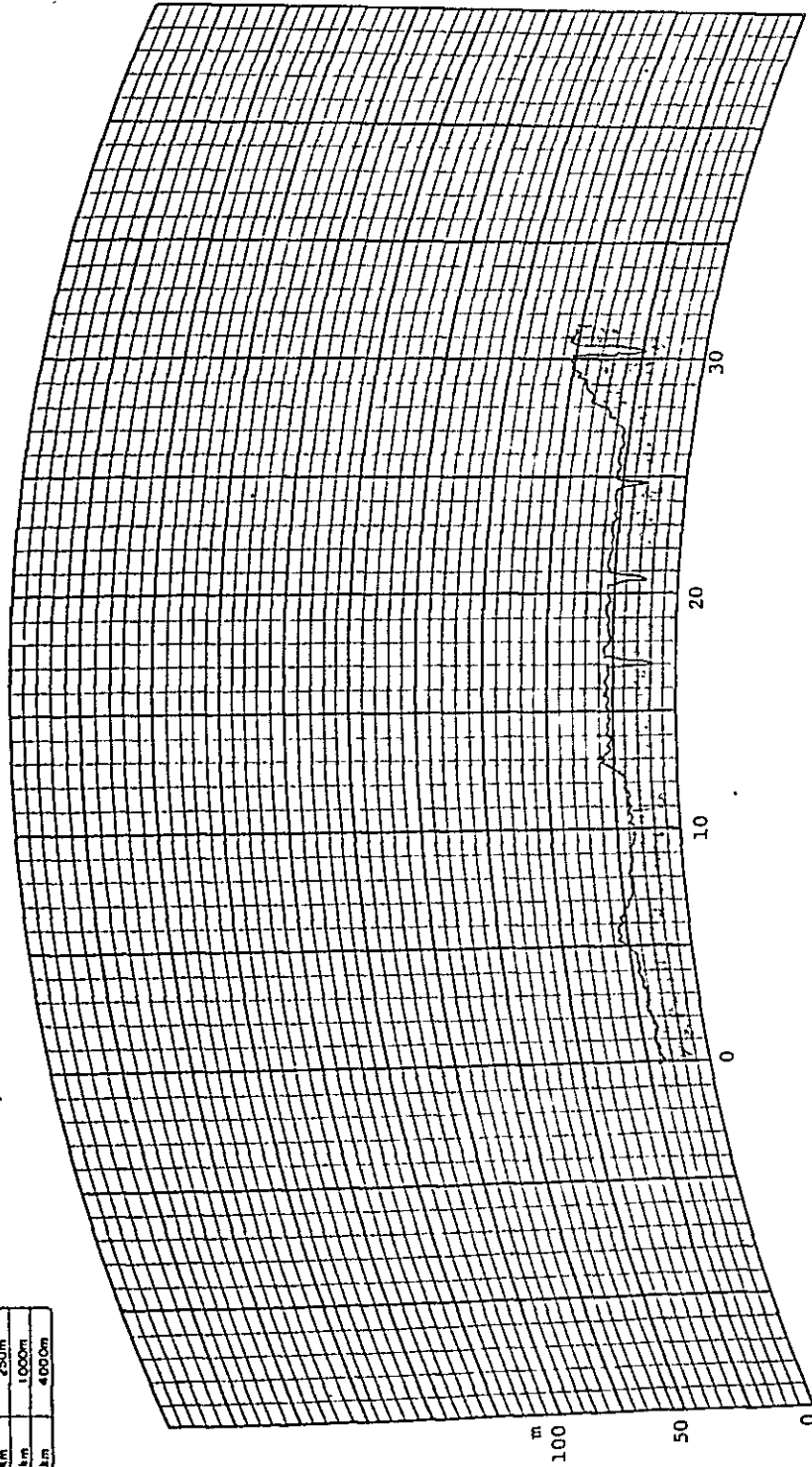
SITE Tigabinanga
 GROUND ELEVATION 610 m
 ANTENNA HEIGHT m

SITE Kabanjahe
 GROUND ELEVATION 1190 m
 ANTENNA HEIGHT m

DISTANCE 28.0 km

Deli Serdang
PATH PROFILE (4/3 RADIUS)

FULL SCALE	
DISTANCE	HEIGHT
60km	250m
120km	1000m
240km	4000m



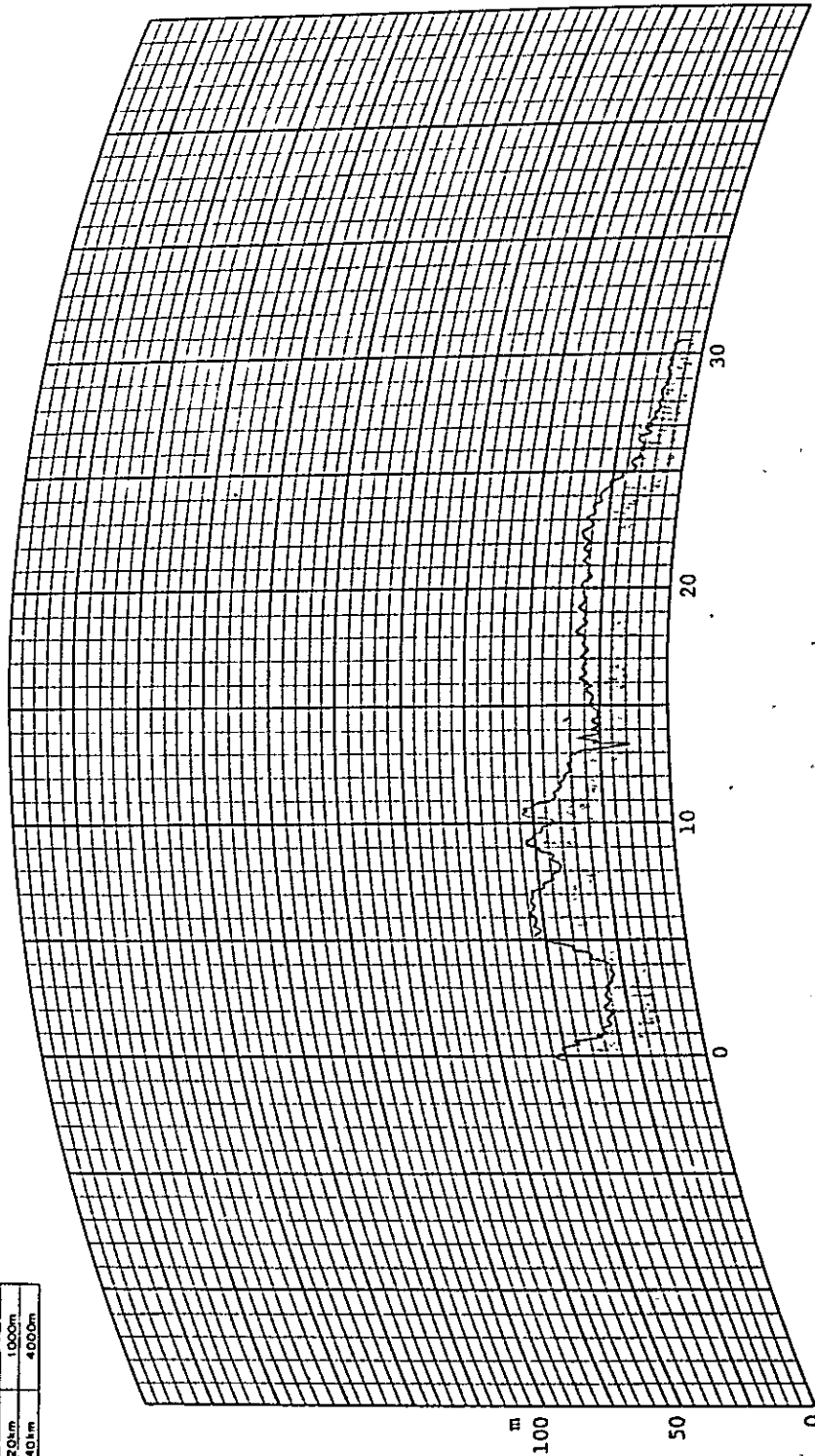
付図 III - 2 - 4 - 2 - 29

SITE Medan
GROUND ELEVATION 20 m
ANTENNA HEIGHT m

SITE Galang
GROUND ELEVATION 50 m
ANTENNA HEIGHT m

Deli Serdang
PATH PROFILE (4/3 RADIUS)

FULL SCALE	
DISTANCE	HEIGHT
50km	250m
120km	1000m
240km	4000m



付図 III - 2 - 4 - 2 - 30

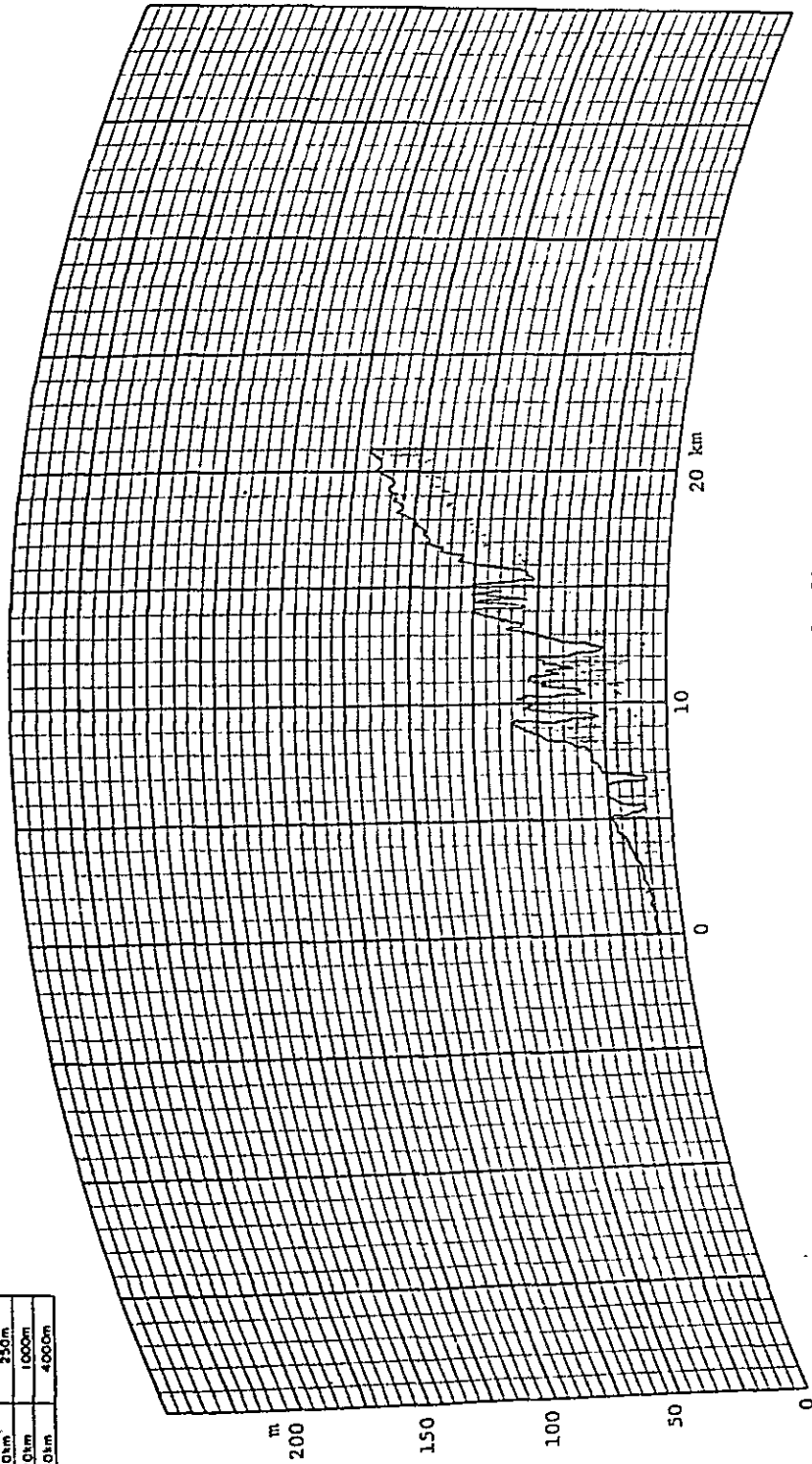
SITE: Galang
GROUND ELEVATION 50 m
ANTENNA HEIGHT _____ m

SITE: Tebing Tinggi
GROUND ELEVATION 10 m
ANTENNA HEIGHT _____ m

DISTANCE: 30.4 km

Deli Serdang
PATH PROFILE (4/3 RADIUS)

FULL SCALE	
DISTANCE	HEIGHT
60 km	350m
120 km	1000m
240 km	4000m



付図 III - 2 - 4 - 2 - 31

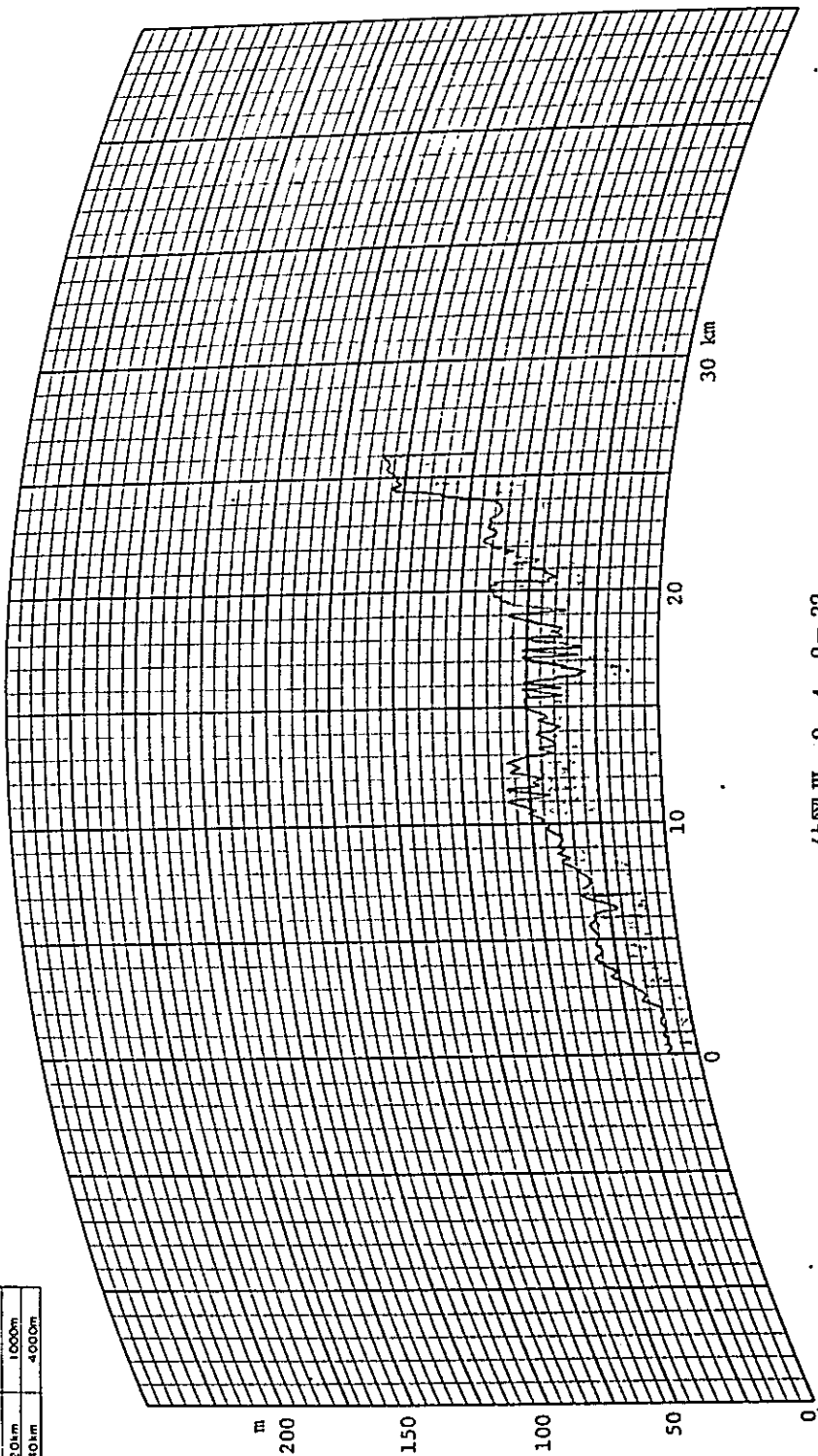
SITE Tebing Tinggi
GROUND ELEVATION 10 m
ANTENNA HEIGHT _____ m

SITE Delok Merawan
GROUND ELEVATION 110 m
ANTENNA HEIGHT _____ m

DISTANCE 20.6 km

Deli Serdang
PATH PROFILE (4/3 RADIUS)

FULL SCALE	
DISTANCE	HEIGHT
60 km	250m
120 km	1000m
240 km	4000m



付図 III - 2 - 4 - 2 - 32

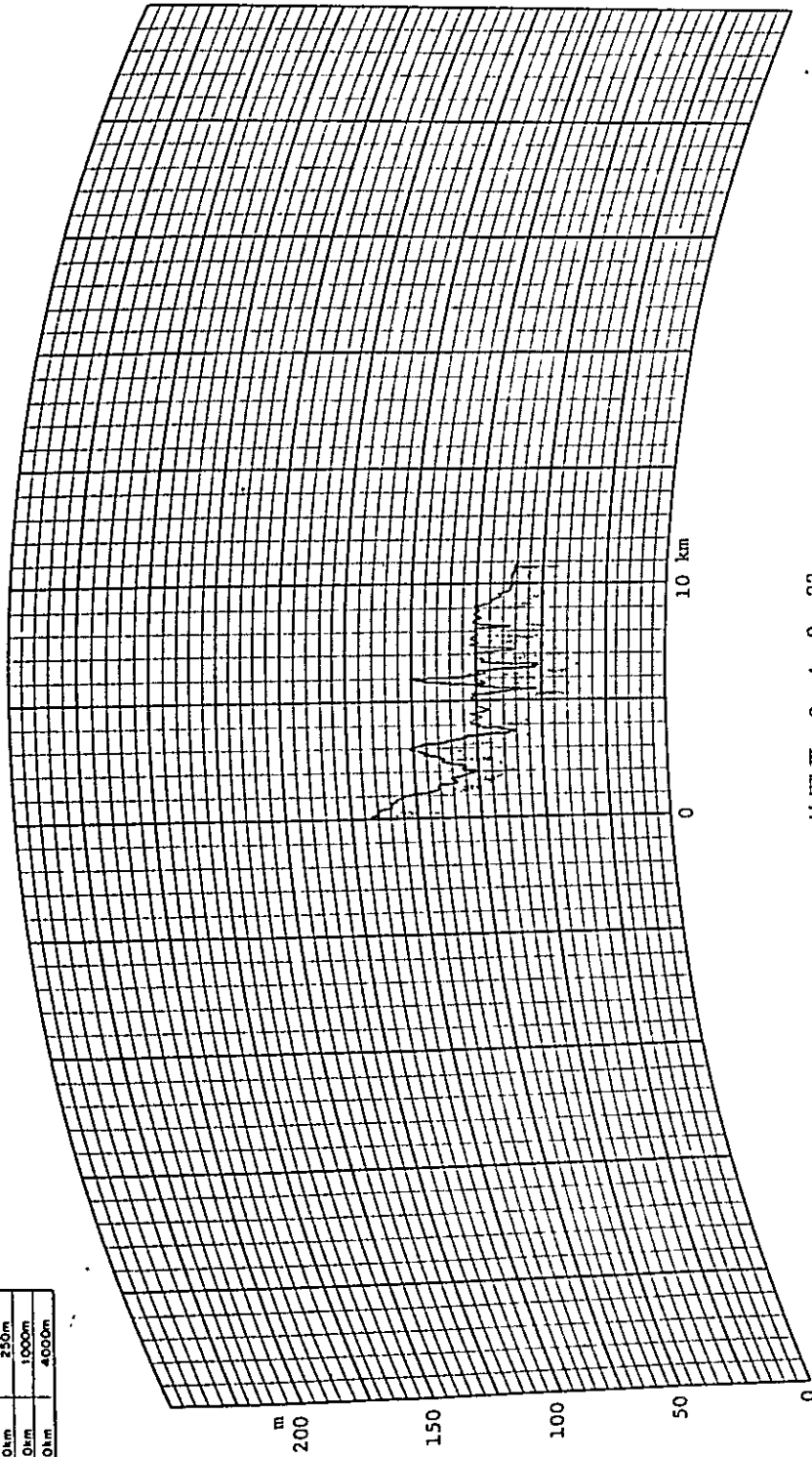
SITE: Tebing Tinggi
GROUND ELEVATION 10 m
ANTENNA HEIGHT: _____ m

SITE: Sinispis
GROUND ELEVATION 110 m
ANTENNA HEIGHT _____ m

DISTANCE: 25.2 km

Deli Serdang
PATH PROFILE (4/3 RADIUS)

FULL SCALE	
DISTANCE	HEIGHT
60km	250m
120km	1000m
240km	4000m



付図 III - 2 - 4 - 2 - 33

SITE Hangunpurba
GROUND ELEVATION 118 m
ANTENNA HEIGHT _____ m

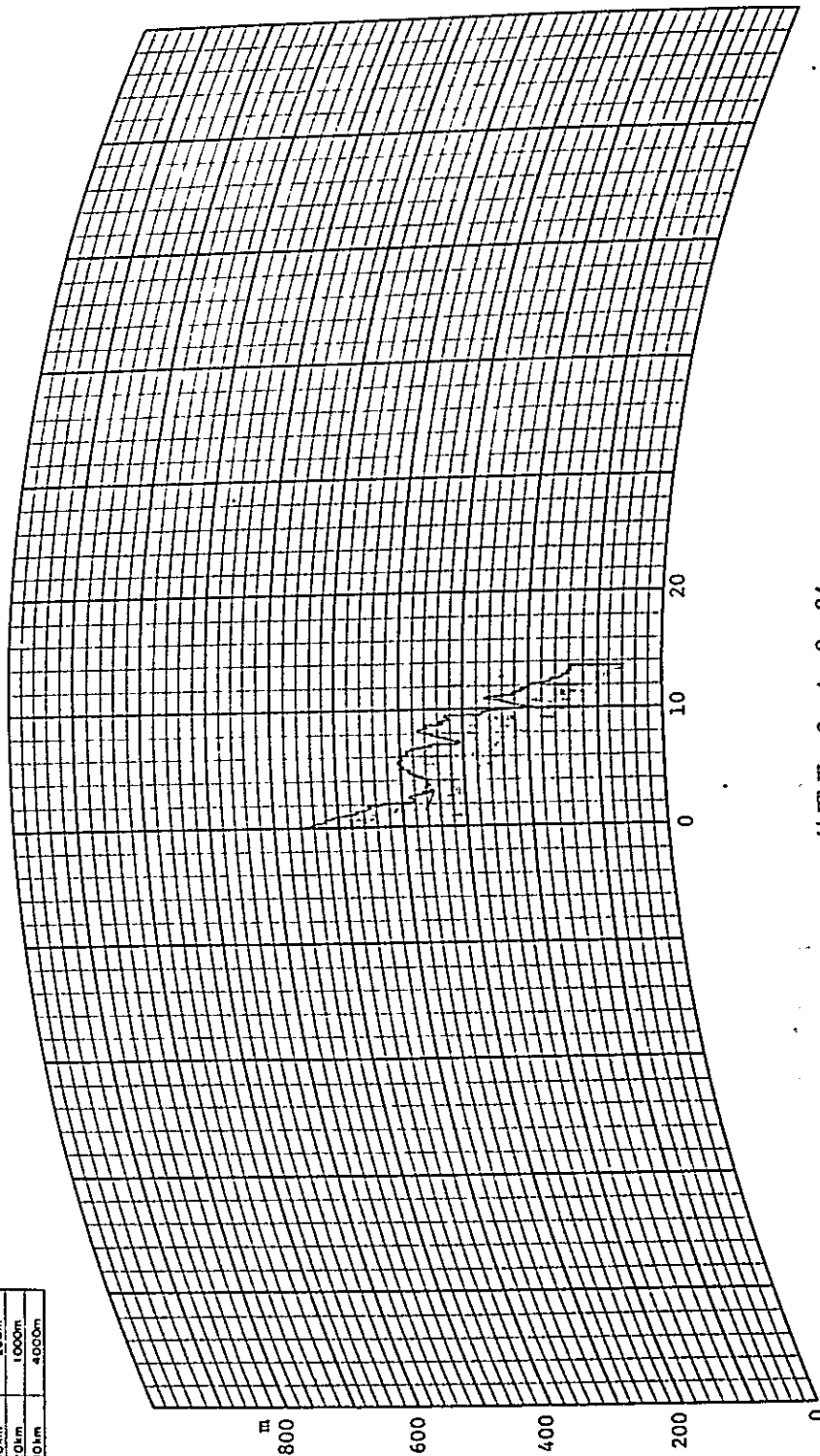
SITE Galang
GROUND ELEVATION 64 m
ANTENNA HEIGHT _____ m

DISTANCE 10.6 km

Delit Serdang

PATH PROFILE (4/3 RADIUS)

FULL SCALE	
DISTANCE	HEIGHT
60 km	250m
120 km	1000m
240 km	4000m



付図 III - 2 - 4 - 2 - 34

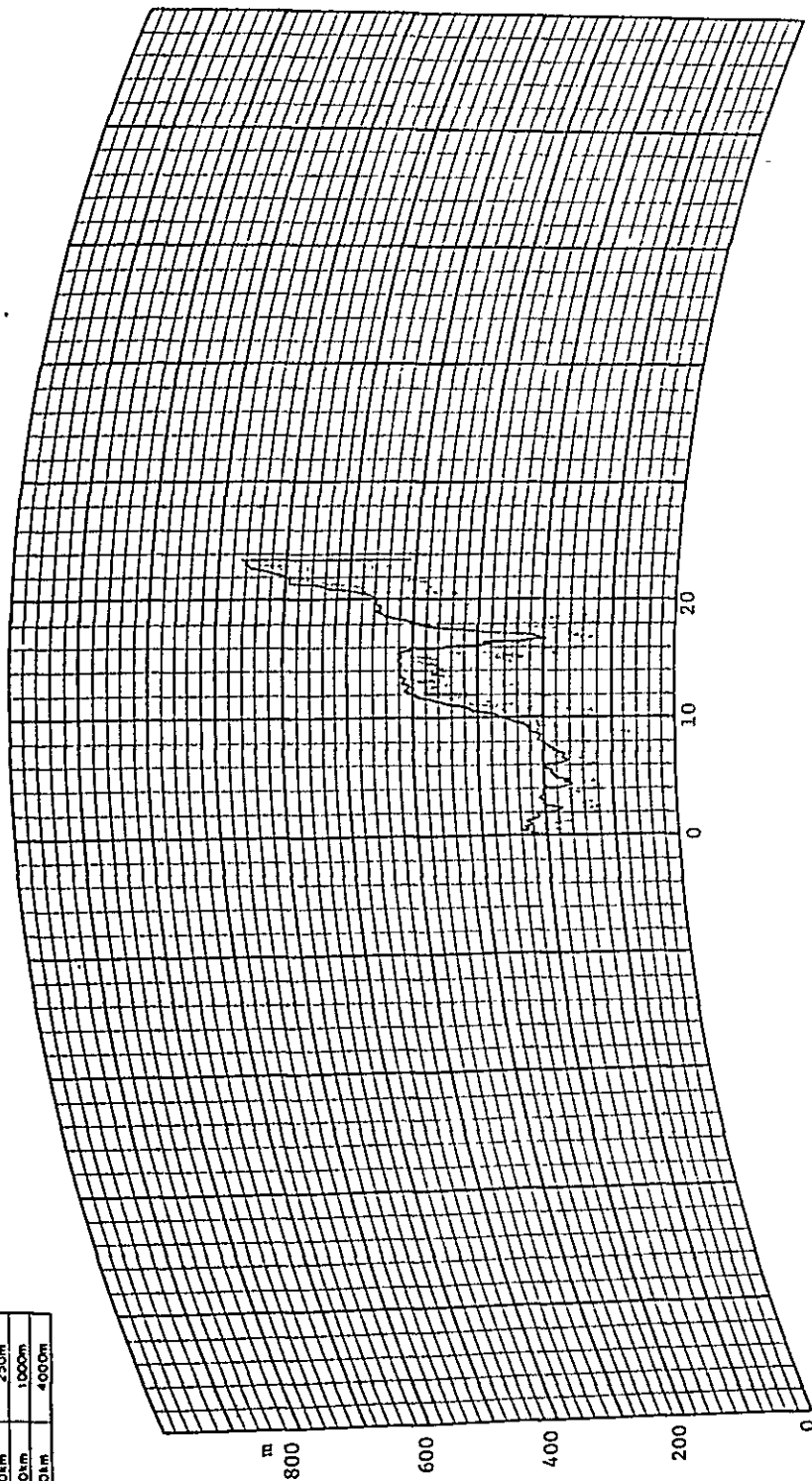
SITE: Birubiru
 GROUND ELEVATION 150 m
 ANTENNA HEIGHT _____ m

SITE: Sibolangit
 GROUND ELEVATION 540 m
 ANTENNA HEIGHT _____ m

DISTANCE: 13.4 km

Deli Serdang
PATH PROFILE (4/3 RADIUS)

FULL SCALE	
DISTANCE	HEIGHT
60km	250m
120km	1000m
240km	4000m



SITE Sibolangit
GROUND ELEVATION 540 m
ANTENNA HEIGHT m

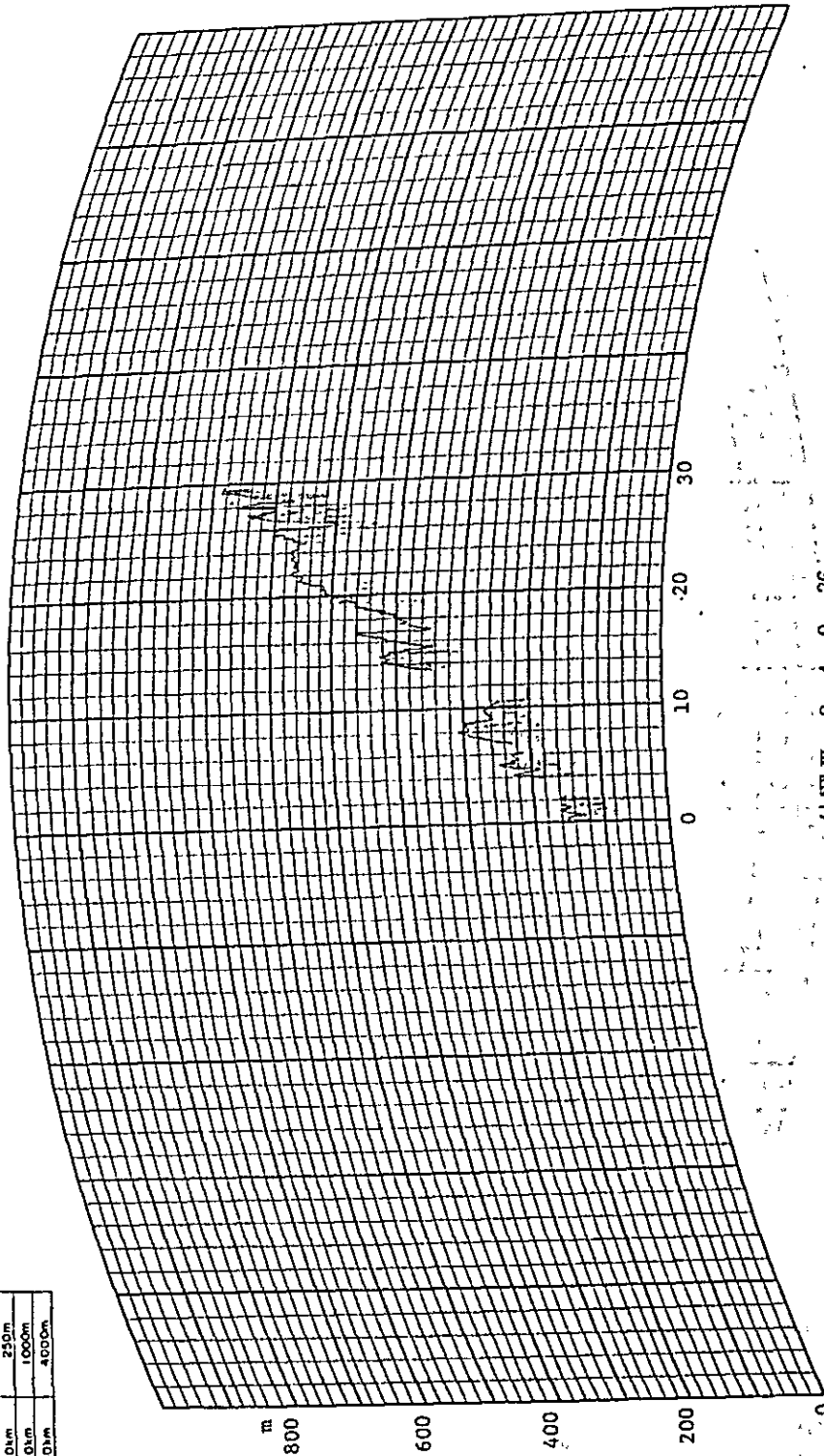
SITE Birubiru
GROUND ELEVATION 150 m
ANTENNA HEIGHT m

付図 III - 2 - 4 - 2 - 35

DISTANCE 13.4 km

Deli Serdang
PATH PROFILE (4/3 RADIUS)

FULL SCALE	
DISTANCE	HEIGHT
60m	250m
120m	1000m
240m	4000m



付図 III - 2 - 4 - 2 - 36

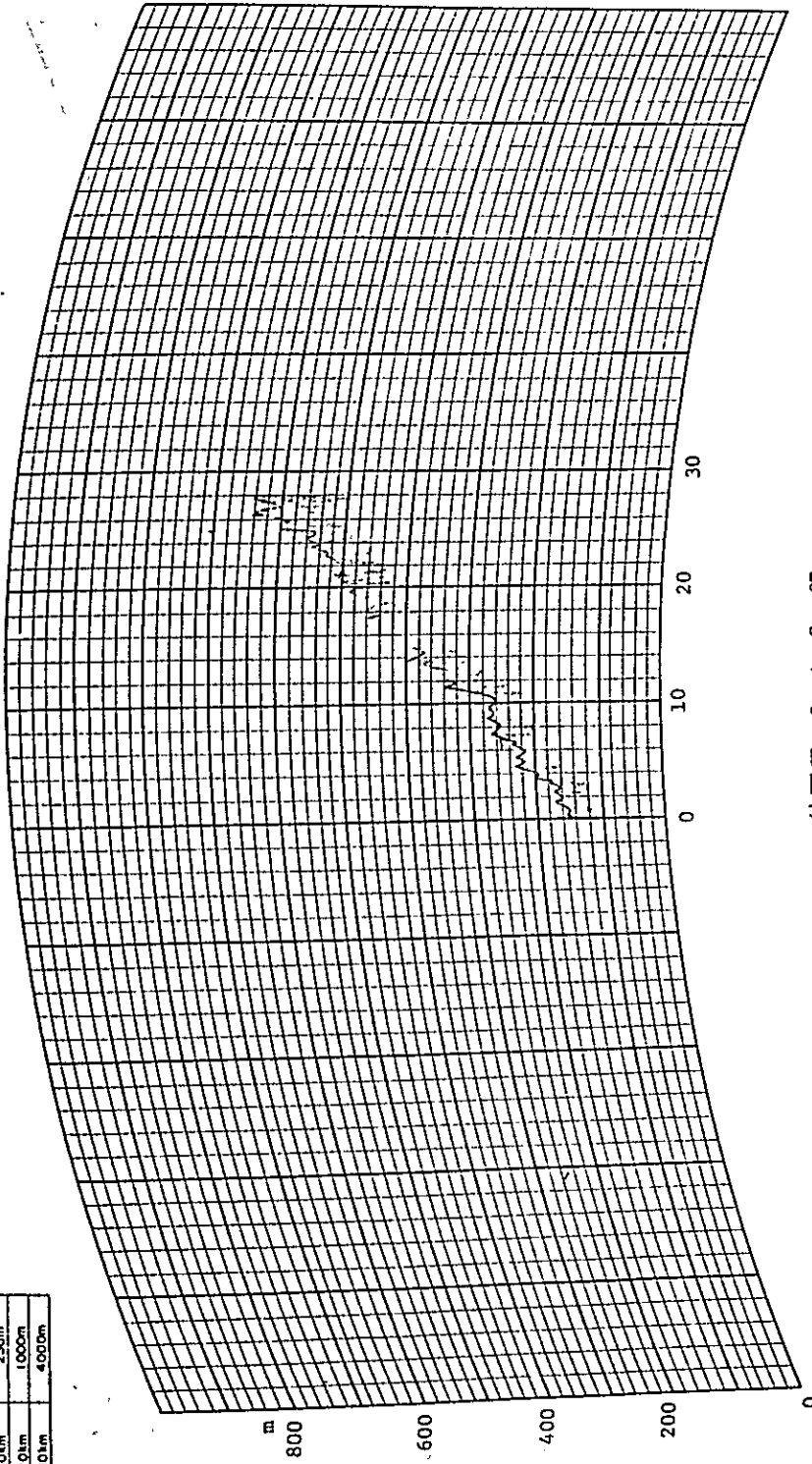
SITE: Gunungmeriah
GROUND ELEVATION: 670 m
ANTENNA HEIGHT: _____ m

DISTANCE: 29.5 km

SITE: Birubiru
GROUND ELEVATION: 150 m
ANTENNA HEIGHT: _____ m

Deli Serdang
PATH PROFILE (4/3 RADIUS)

FULL SCALE	
DISTANCE	HEIGHT
60km	250m
120km	1000m
240km	4000m



付 Ⅲ - 2 - 4 - 2 - 37

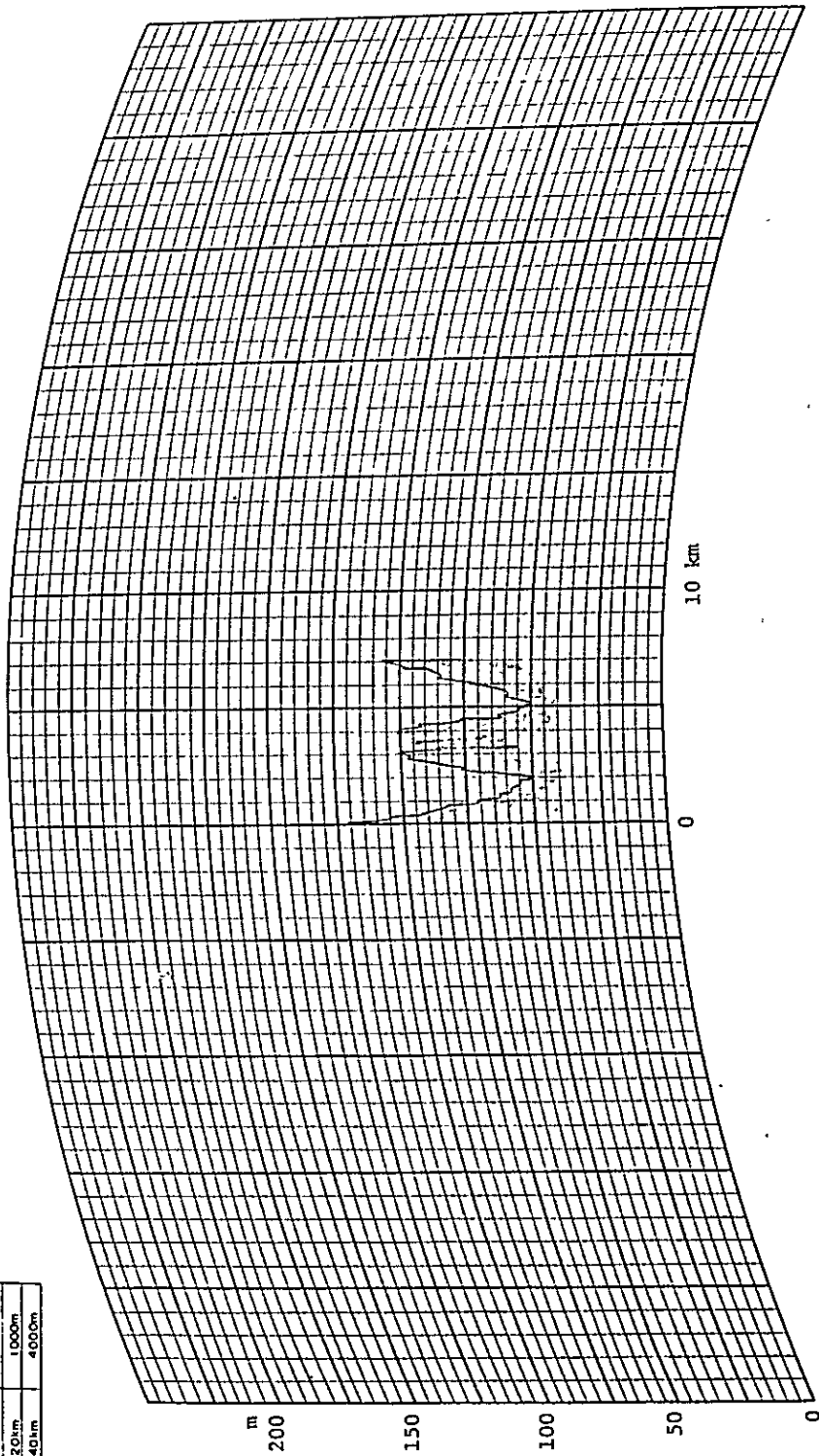
SITE Birubiru
 GROUND ELEVATION 150 m
 ANTENNA HEIGHT _____ m

SITE Gunungmeriah
 GROUND ELEVATION 660 m
 ANTENNA HEIGHT _____ m

DISTANCE: 29.5 km

Deli Serdang
PATH PROFILE (4/3 RADIUS)

FULL SCALE	
DISTANCE	HEIGHT
50km	250m
150km	1000m
240km	4000m



付図 III - 2 - 4 - 2 - 38

SITE: Bangunpurba
GROUND ELEVATION 115 m
ANTENNA HEIGHT _____ m

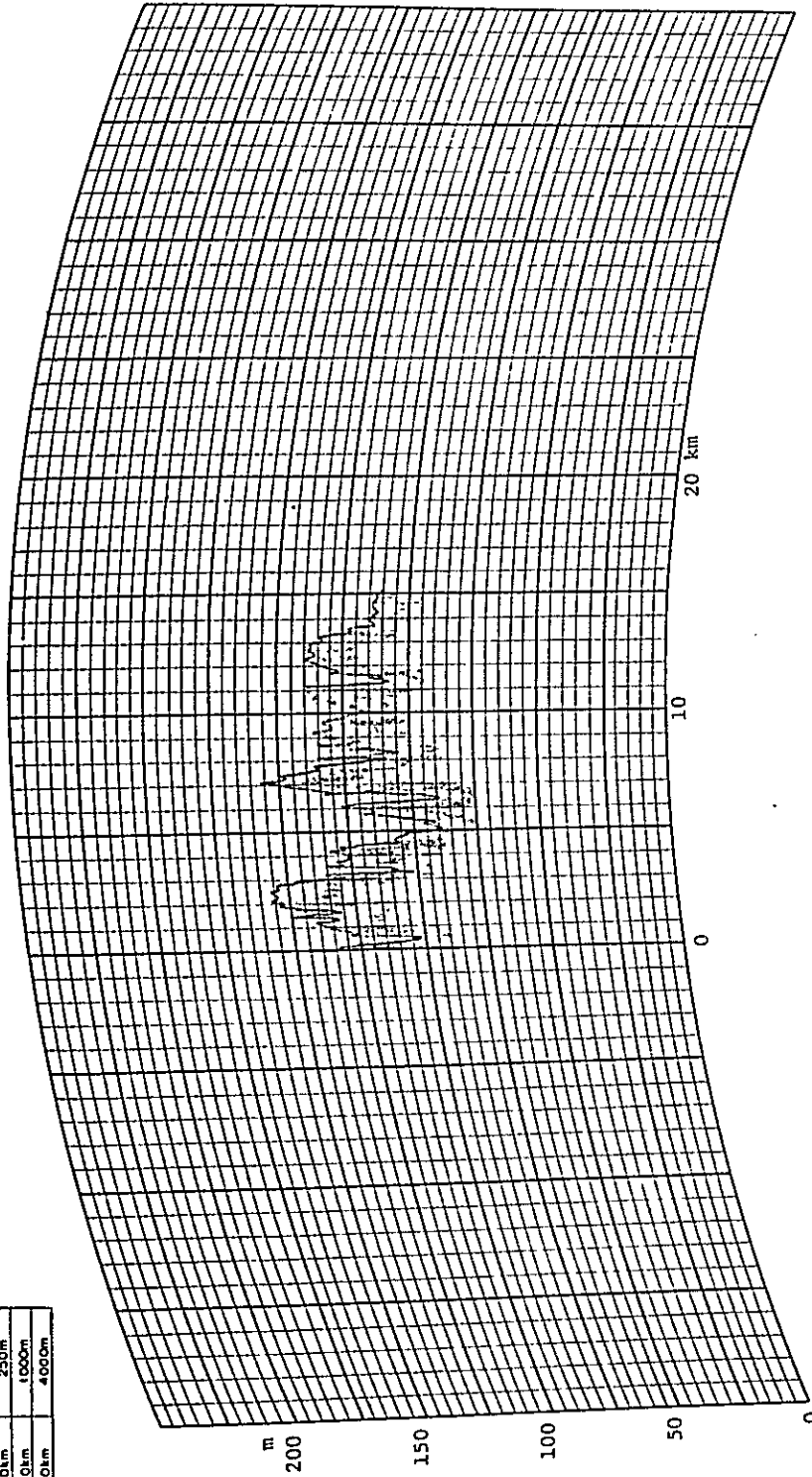
SITE: Kotarih
GROUND ELEVATION 100 m
ANTENNA HEIGHT _____ m

DISTANCE: 7.0 km

Deli Serdang

PATH PROFILE (4/3-RADIUS)

FULL SCALE	
DISTANCE	HEIGHT
60km	250m
120km	1000m
240km	4000m



付図 III - 2 - 4 - 2 - 39

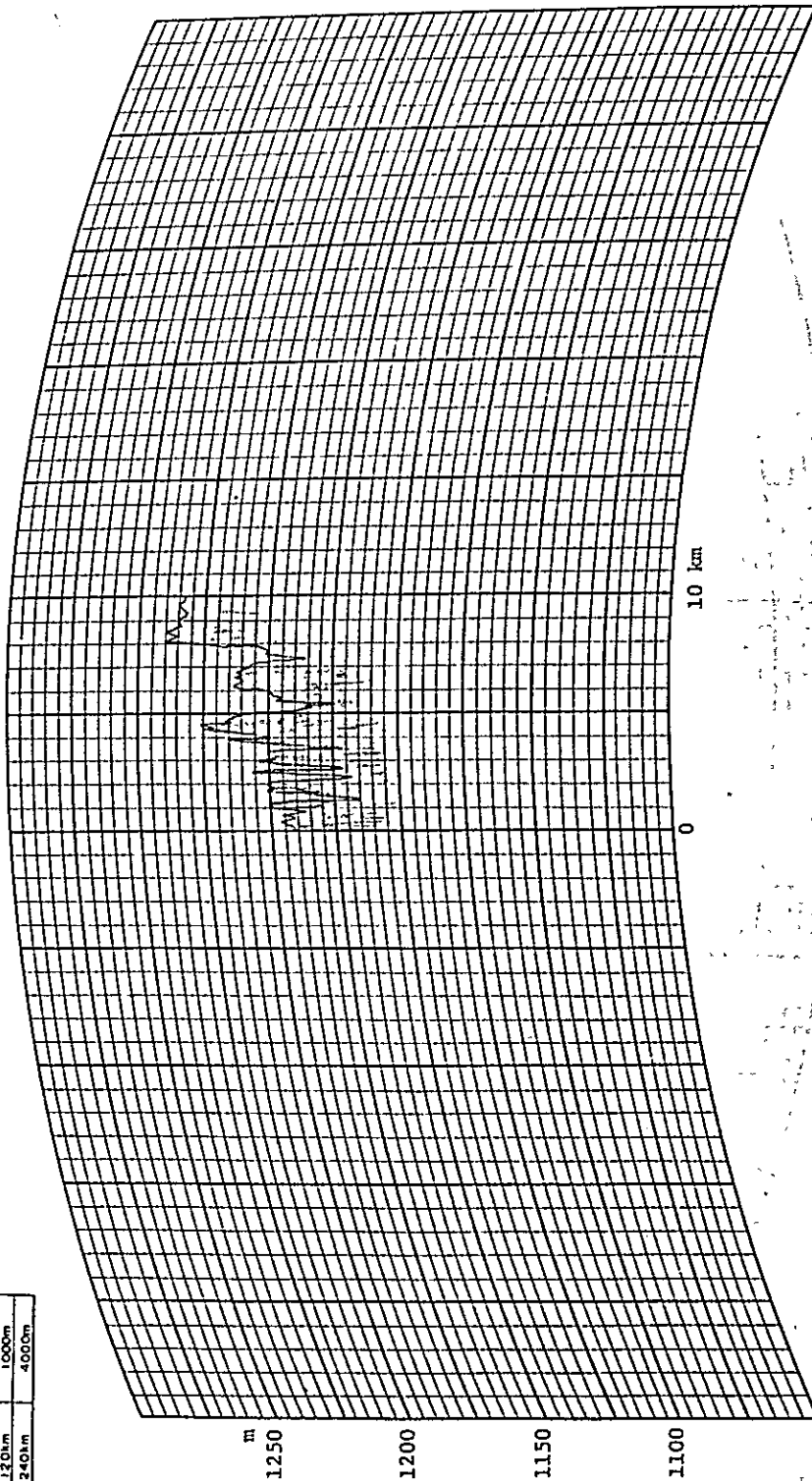
SITE Birubiru
 GROUND ELEVATION 150 m
 ANTENNA HEIGHT _____ m

SITE Bangumpurba
 GROUND ELEVATION 110 m
 ANTENNA HEIGHT _____ m

DISTANCE 15.0 km

Deli Serdang
PATH PROFILE (4/3 RADIUS)

FULL SCALE	
DISTANCE	HEIGHT
40km	250m
120km	1000m
240km	4000m



付 Ⅲ - 2 - 4 - 2 - 40

SITE: Kabanjahe
 GROUND ELEVATION: 1190 m
 ANTENNA HEIGHT: _____ m

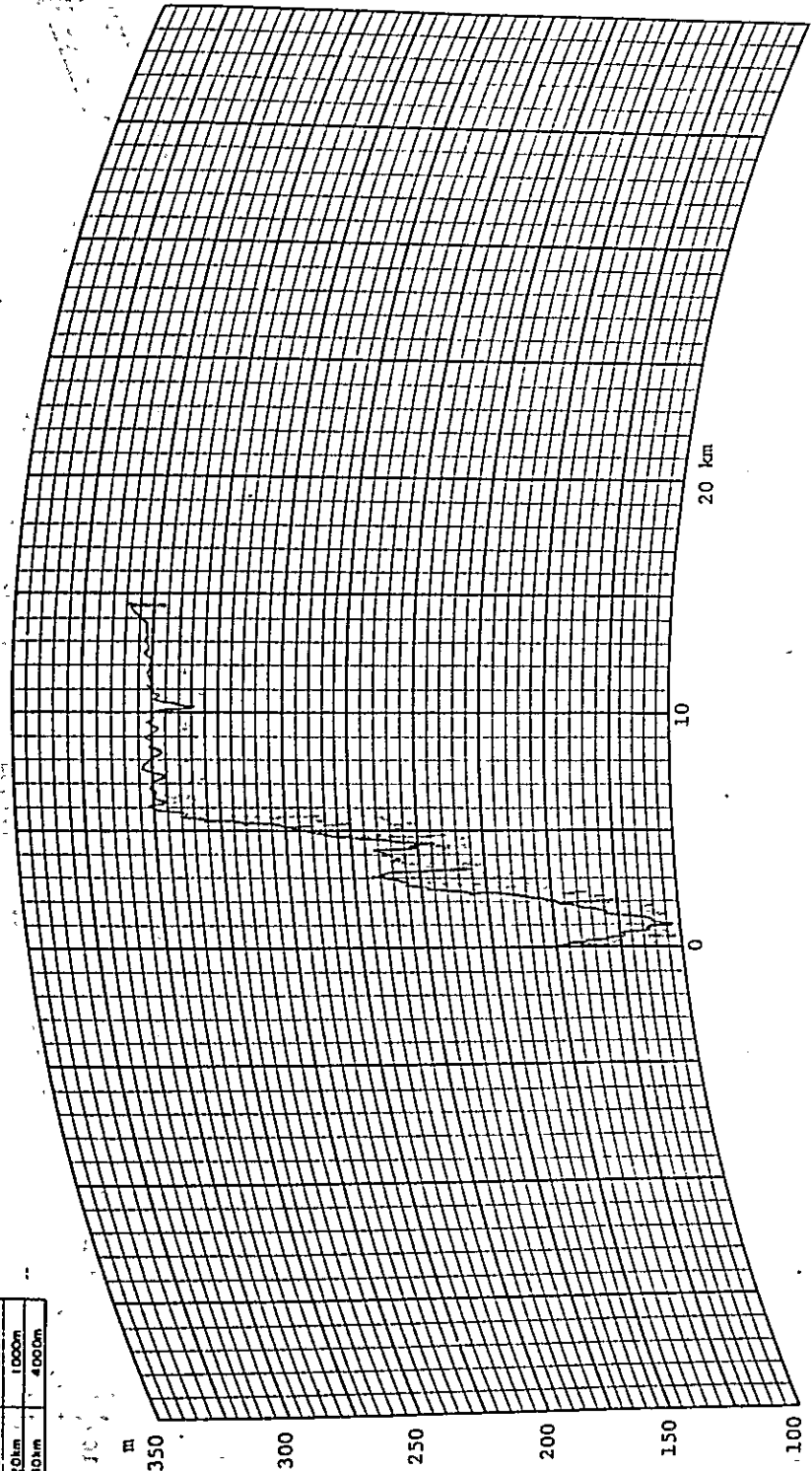
SITE: Barusjahe
 GROUND ELEVATION: 1220 m
 ANTENNA HEIGHT: _____ m

DISTANCE: 9.9 km

Deli Serdang

PATH PROFILE (4/3 RADIUS)

FULL SCALE	
DISTANCE	HEIGHT
60km	250m
120km	1000m
240km	4000m



付図 III - 2 - 4 - 2 - 41

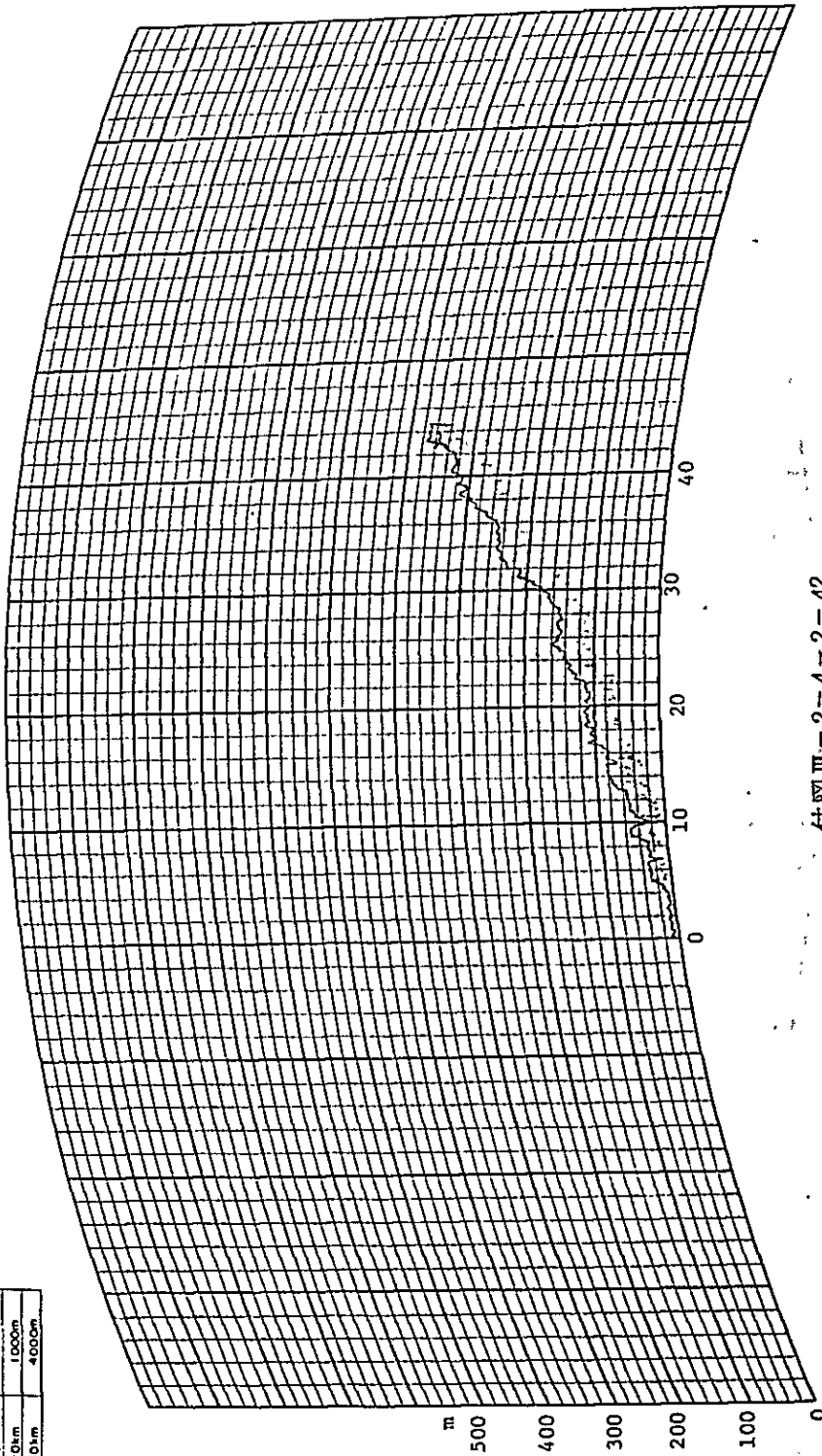
SITE Biubiru
 GROUND ELEVATION _____ m
 ANTENNA HEIGHT _____ m

SITE Tigajuhar
 GROUND ELEVATION _____ m
 ANTENNA HEIGHT _____ m

DISTANCE 14.6 km

Simalungun
 PATH PROFILE (4/3 RADIUS)

FULL SCALE	
DISTANCE	HEIGHT
50km	250m
120km	1000m
240km	4000m



付図Ⅲ-2-4-2-42

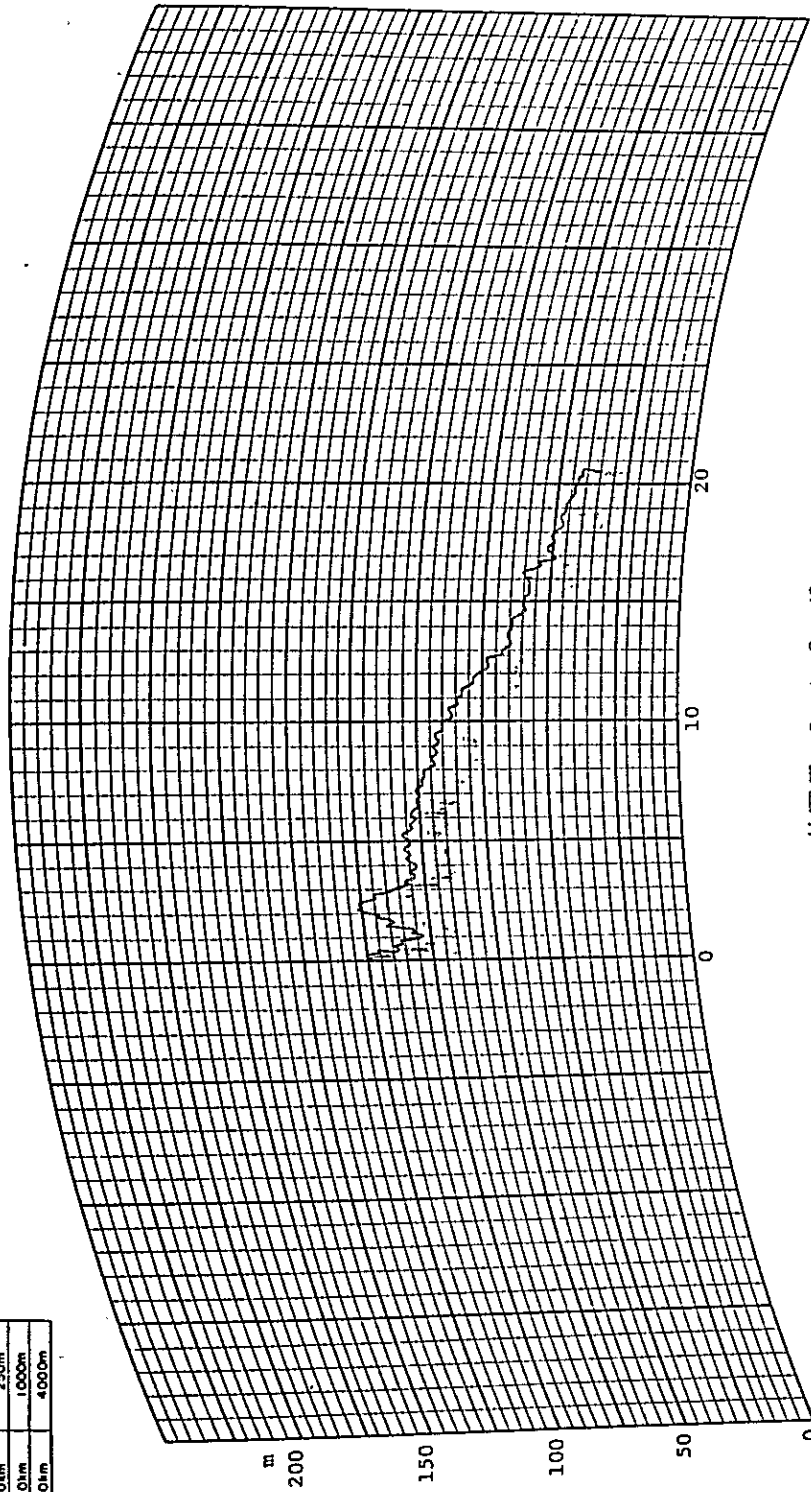
SITE Tebing Tinggi
 GROUND ELEVATION 10 m
 ANTENNA HEIGHT m

SITE Pematang Siantar
 GROUND ELEVATION 375 m
 ANTENNA HEIGHT m

DISTANCE 44.4 km

Simalungun
PATH PROFILE (4/3 RADIUS)

FULL SCALE	
DISTANCE	HEIGHT
60 km	250m
120 km	1000m
240 km	4000m



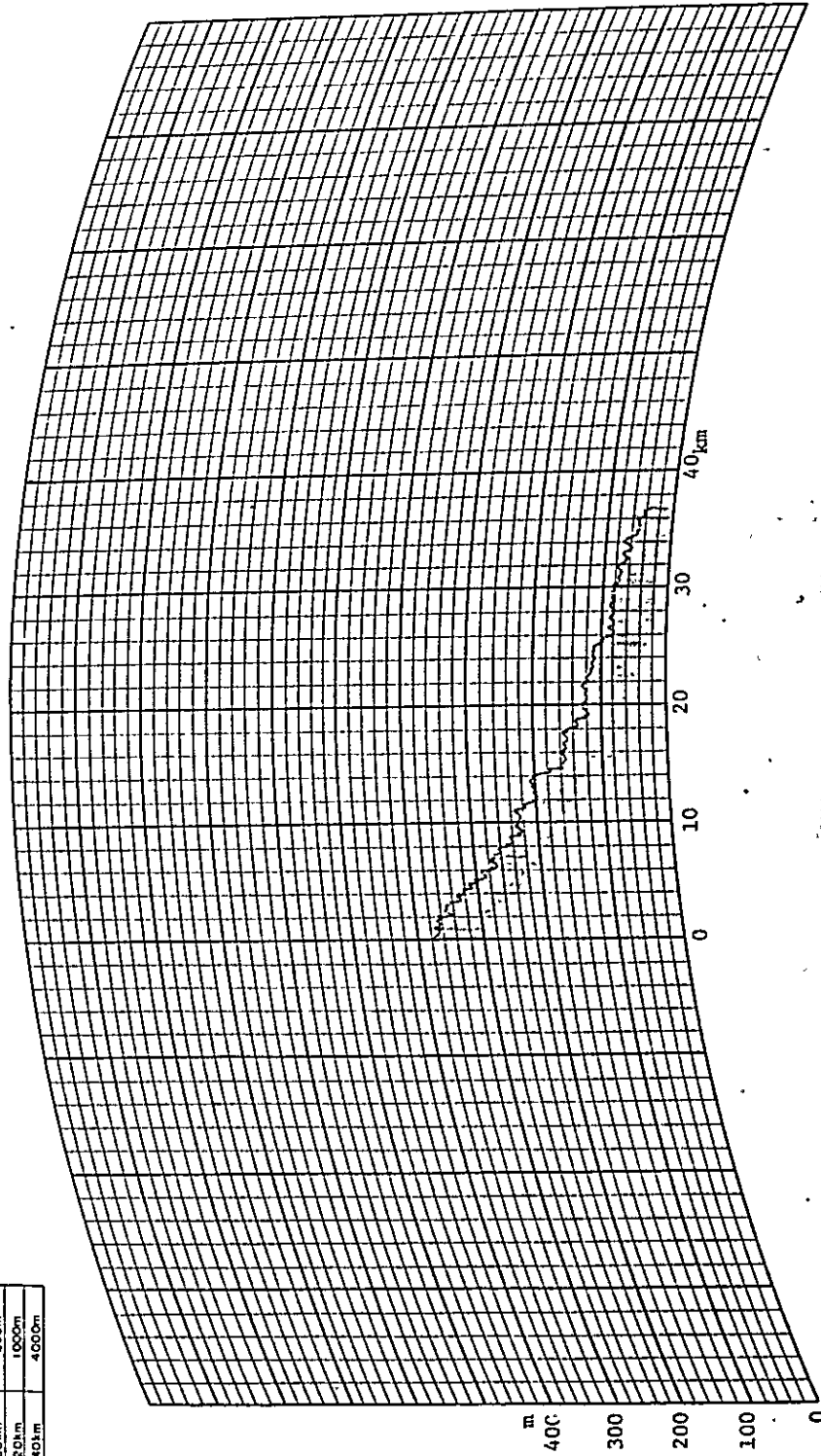
付図 III - 2 - 4 - 2 - 43

SITE: <u>Serberawan</u>	SITE: <u>Perdagangan</u>
GROUND ELEVATION: <u>125</u> m	GROUND ELEVATION: <u>43</u> m
ANTENNA HEIGHT _____ m	ANTENNA HEIGHT _____ m
	DISTANCE: <u>20.6</u> km

Simalungun

PATH PROFILE (4/3 RADIUS)

FULL SCALE	
DISTANCE	HEIGHT
60km	250m
120km	1000m
240km	4000m



付図 III - 2 - 4 - 2 - 44

SITE: Perdagang
GROUND ELEVATION: 30 m
ANTENNA HEIGHT: _____ m

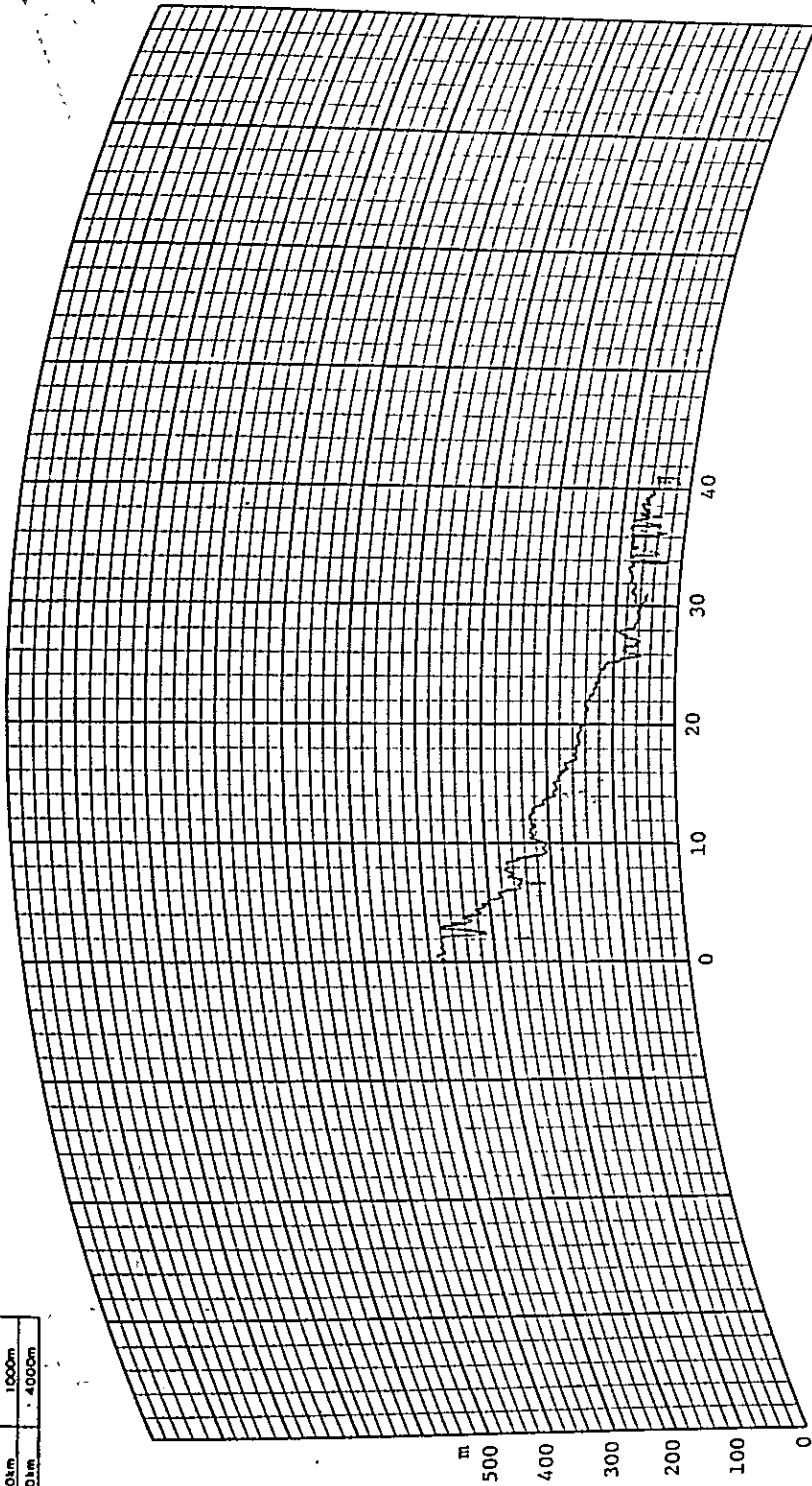
SITE: Pematang Siantar
GROUND ELEVATION: 375 m
ANTENNA HEIGHT: _____ m

DISTANCE: 37.1 km

Simalungun

PATH PROFILE (4/3 RADIUS)

FULL SCALE	
DISTANCE	HEIGHT
50km	250m
120km	1000m
240km	4000m



付図 III - 2-4-2-45

SITE Pematang Siantar
 GROUND ELEVATION 375 m
 ANTENNA HEIGHT 0 m

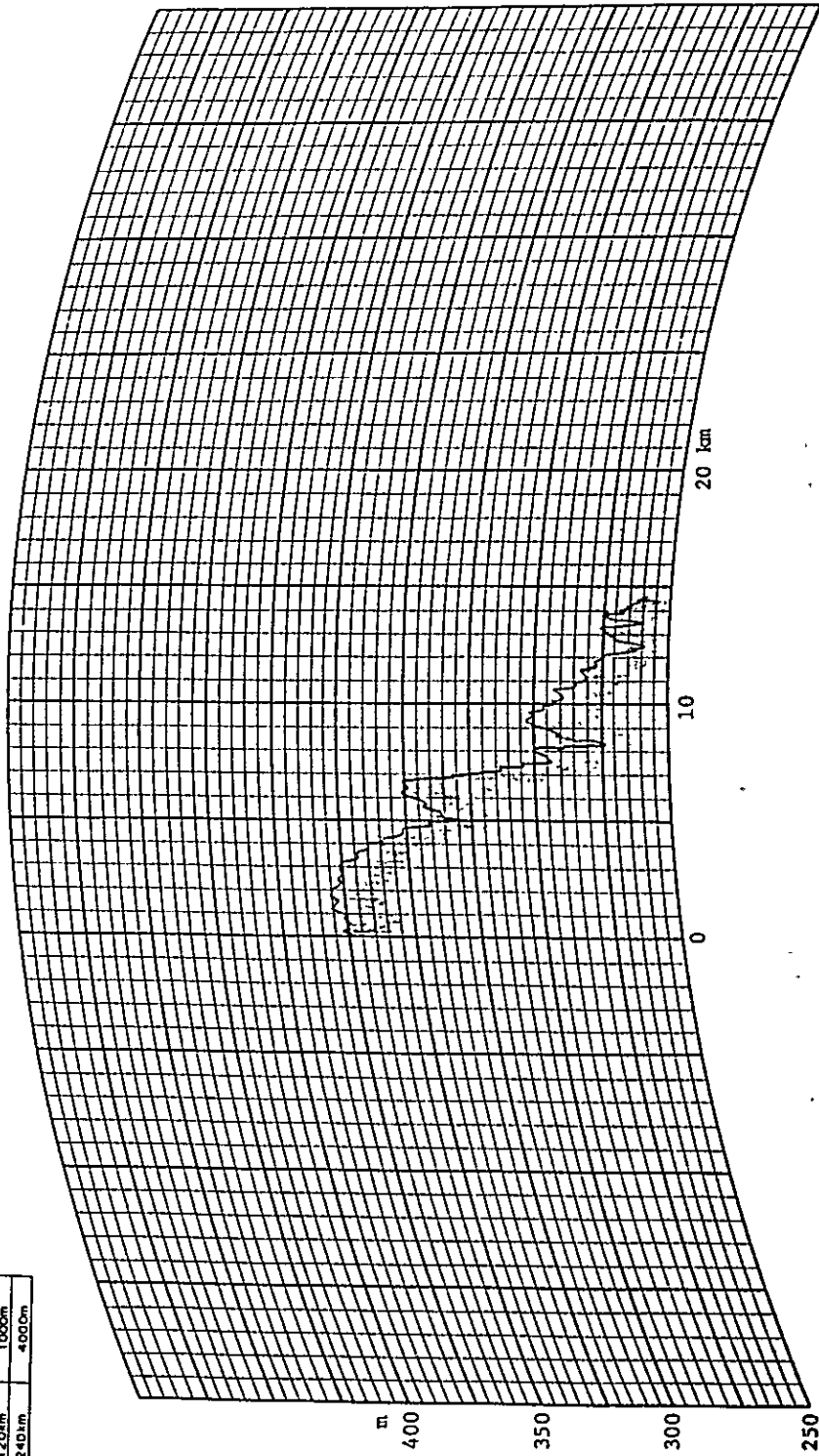
SITE Pasar Baru
 GROUND ELEVATION 50 m
 ANTENNA HEIGHT 0 m

DISTANCE 41.1 km

Simalungun

PATH PROFILE (4/3 RADIUS)

FULL SCALE	
DISTANCE	HEIGHT
50km	250m
120km	1000m
240km	4000m



付図 III - 2 - 4 - 2 - 46

SITE: Pematang Siantar
 GROUND ELEVATION: 375 m
 ANTENNA HEIGHT: _____ m

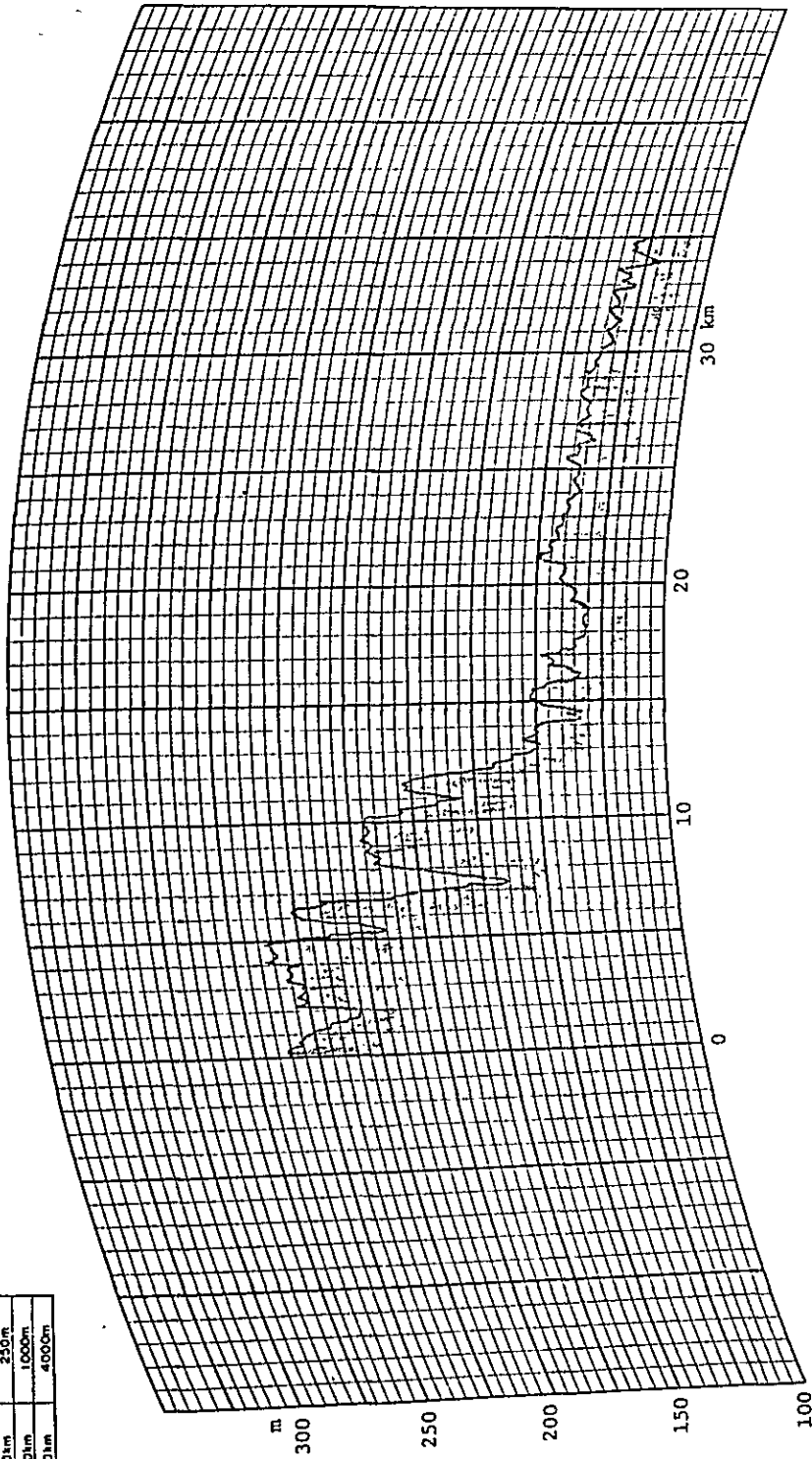
SITE: Tanah Jawa
 GROUND ELEVATION: 260 m
 ANTENNA HEIGHT: _____ m

DISTANCE: 14.3 km

Simalungun

PATH PROFILE (4/3 RADIUS)

FULL SCALE	
DISTANCE	HEIGHT
60km	250m
120km	1000m
240km	4000m



付図 III - 2 - 4 - 2 - 47

SITE Negeridolok
 GROUND ELEVATION 260 m
 ANTENNA HEIGHT m

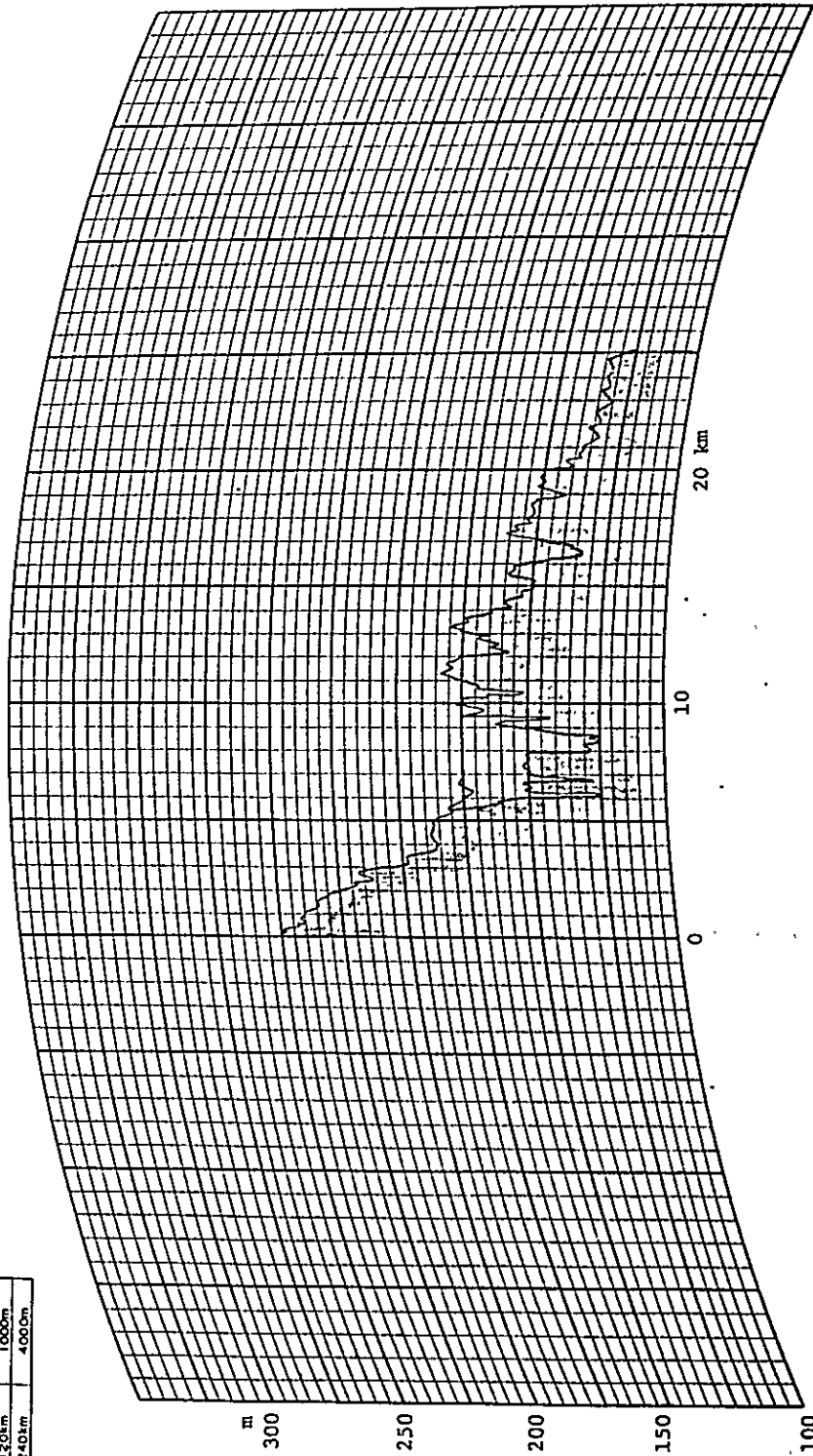
SITE Seberawan
 GROUND ELEVATION 125 m
 ANTENNA HEIGHT m

DISTANCE 34 km

Simalungun
 PATH PROFILE (4/3 RADIUS)

FULL SCALE

DISTANCE	HEIGHT
60km	250m
120km	1000m
240km	4000m



付図Ⅲ-2-4-2-48

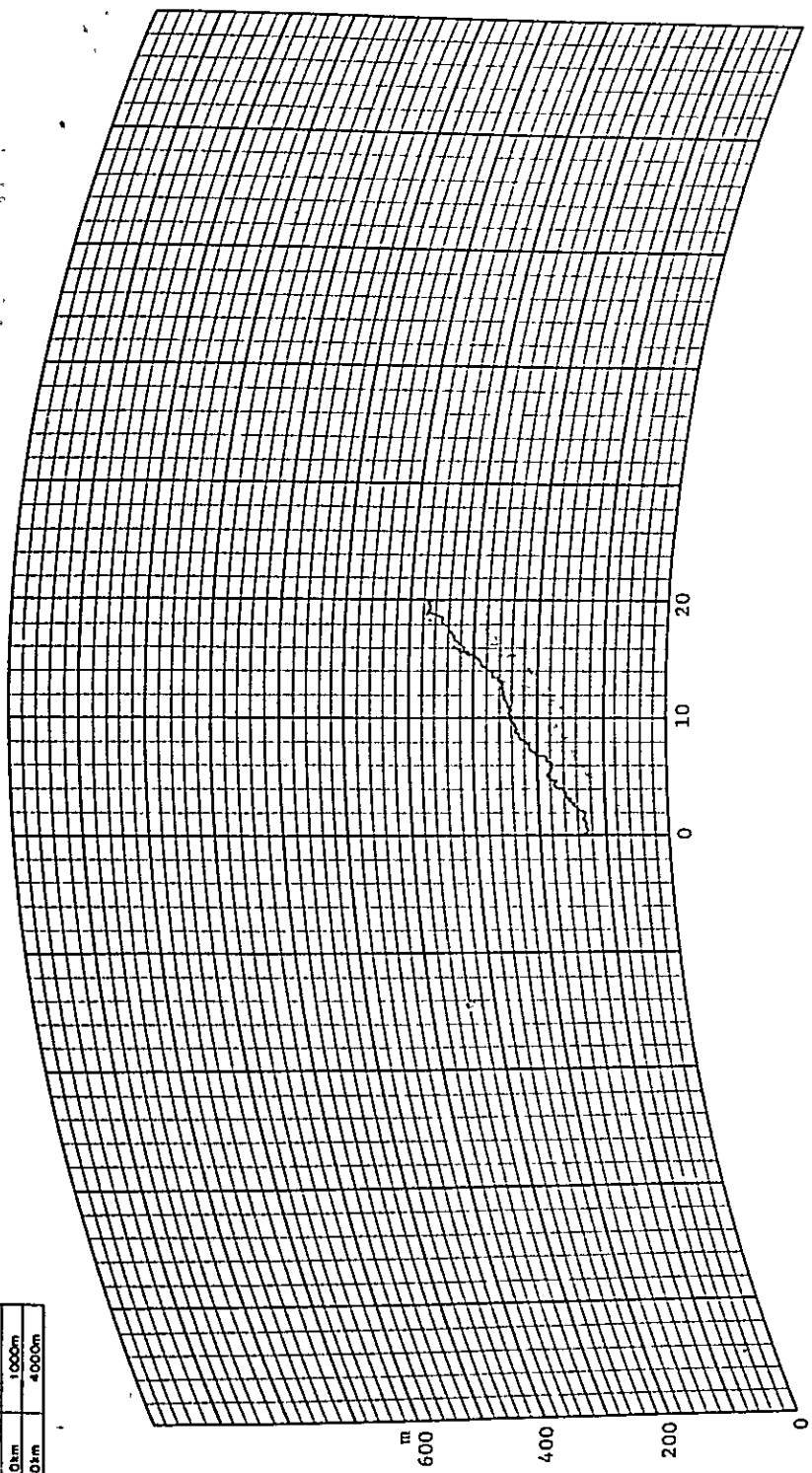
SITE: Sindar Raya
 GROUND ELEVATION: 250 m
 ANTENNA HEIGHT: _____ m

SITE: Serbrawan
 GROUND ELEVATION: _____ m
 ANTENNA HEIGHT: _____ m

DISTANCE: 25 km

Simalungun
PATH PROFILE (4/3 RADIUS)

FULL SCALE	
DISTANCE	HEIGHT
60km	250m
120km	1000m
240km	4000m



付図 III - 2 - 4 - 2 - 49

SITE Serbelawan
 GROUND ELEVATION 125 m
 ANTENNA HEIGHT _____ m

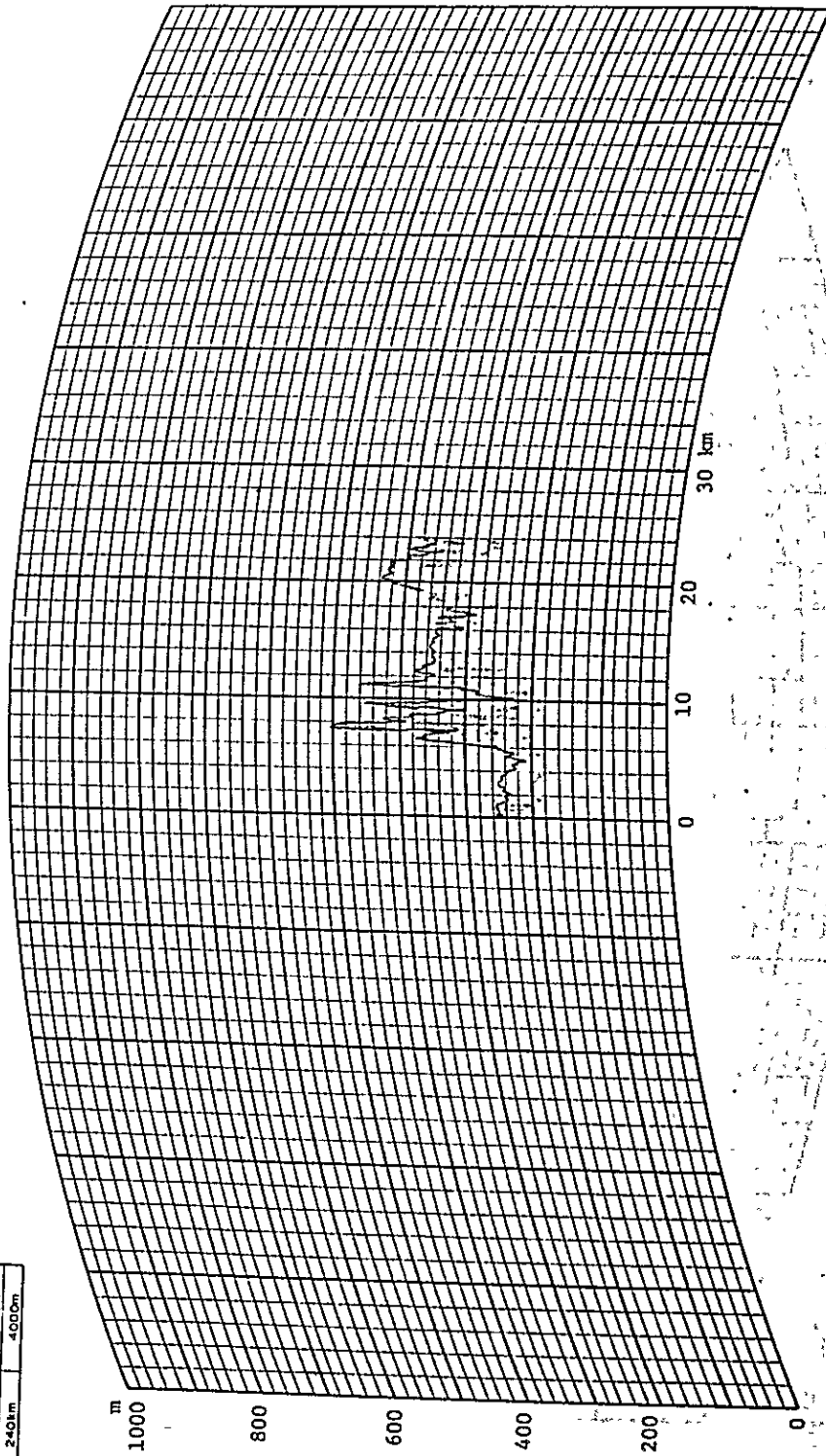
SITE Pematang Siantar
 GROUND ELEVATION 375 m
 ANTENNA HEIGHT _____ m

DISTANCE 20 km

Simalungun

PATH PROFILE (4/3 RADIUS)

FULL SCALE	
DISTANCE	HEIGHT
60km	20m
120km	100m
240km	400m



付図 III - 2 - 4 - 2 - 50

SITE: Sandar Raya

GROUND ELEVATION: 250 m

ANTENNA HEIGHT: _____ m

SITE: Pematang Siantar

GROUND ELEVATION: 375 m

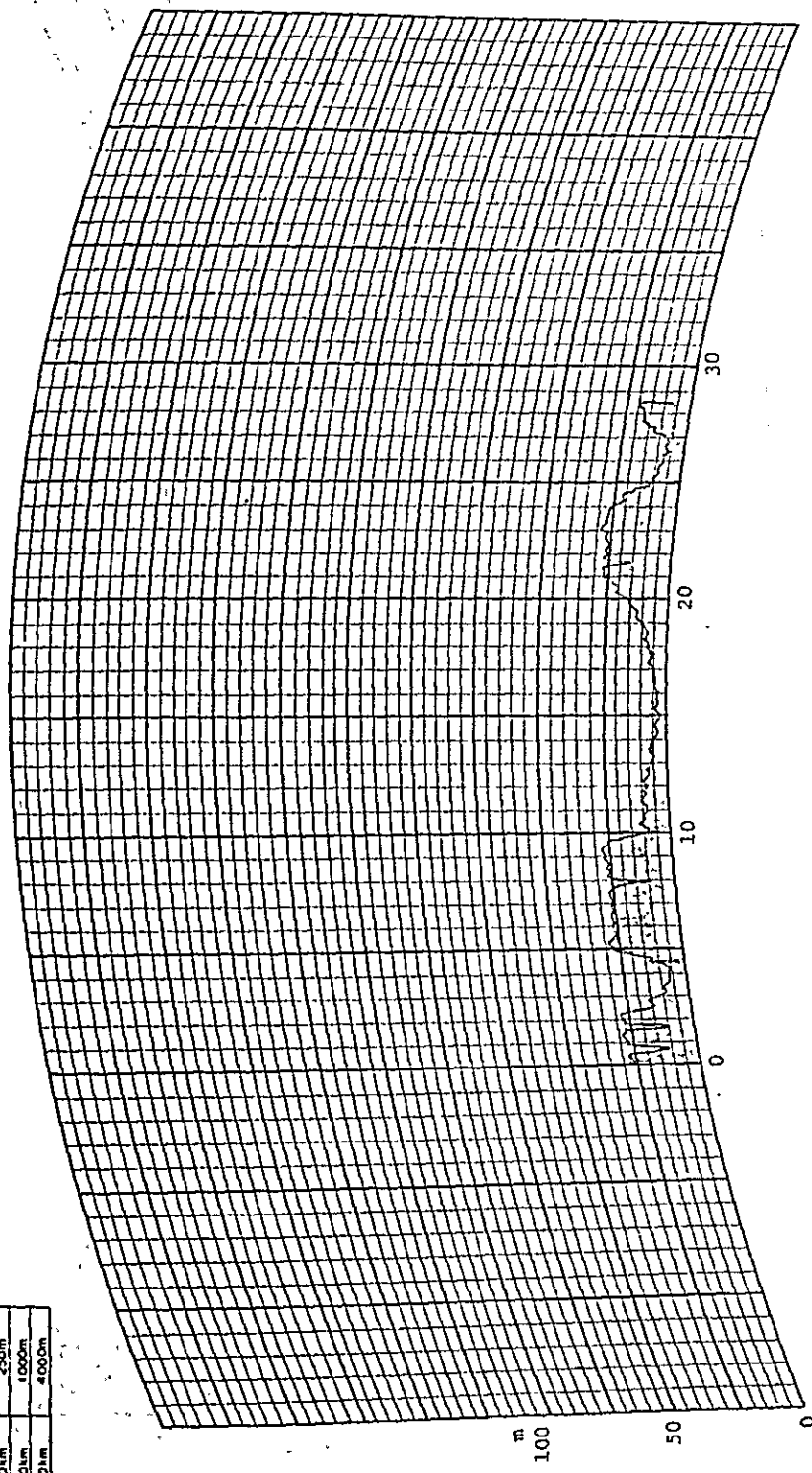
ANTENNA HEIGHT: _____ m

DISTANCE: 24 km

Asahan

PATH PROFILE (4/3 RADIUS)

FULL SCALE	
DISTANCE	HEIGHT
60km	250m
120km	1000m
240km	4000m



付図 III - 2 - 4 - 2 - 51

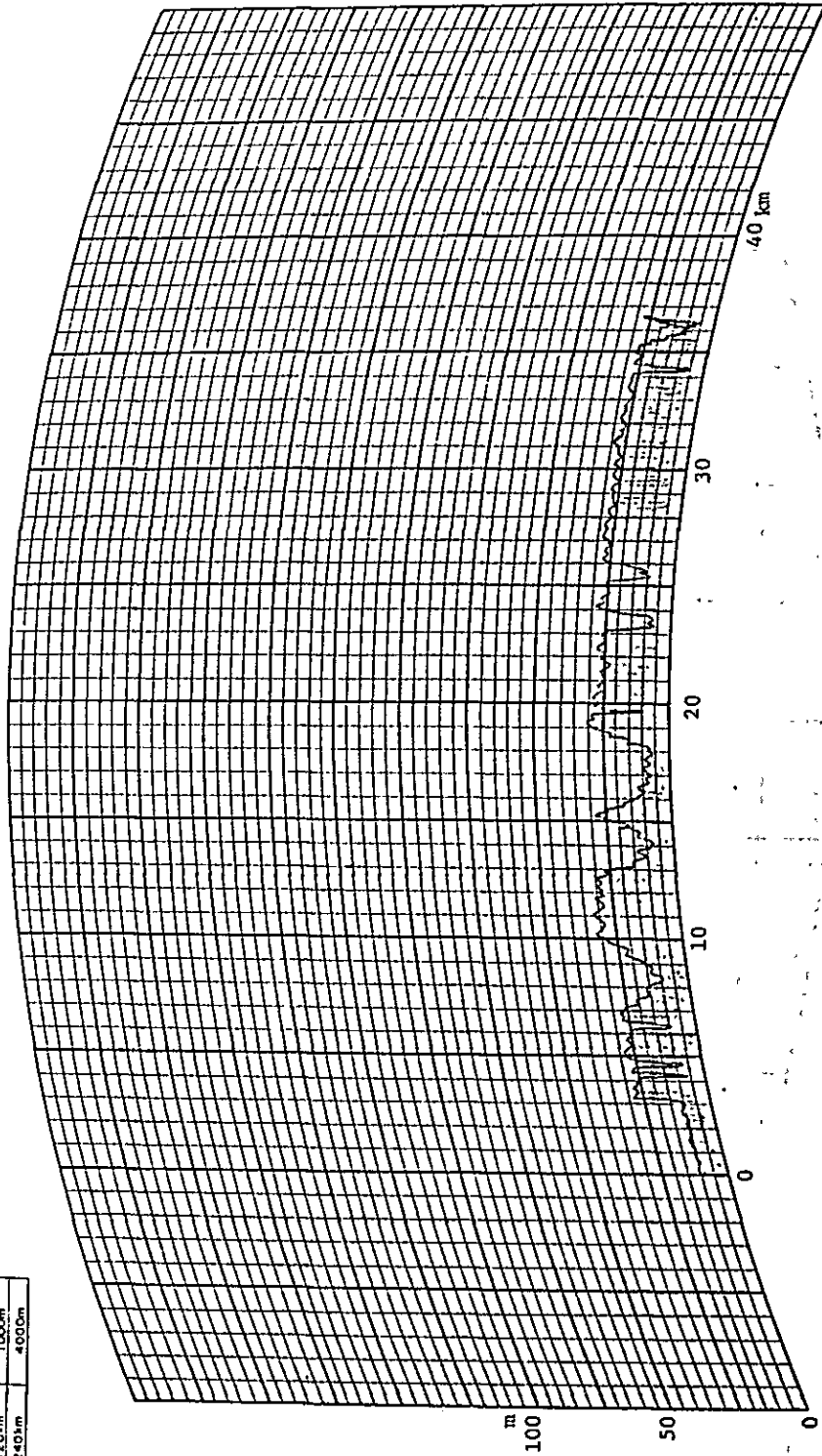
SITE Limapuluh
 GROUND ELEVATION 27 m
 ANTENNA HEIGHT _____ m

SITE Kisaran
 GROUND ELEVATION 20 m
 ANTENNA HEIGHT _____ m

DISTANCE 28.3 km

Asahan
PATH PROFILE (4/3 RADIUS)

FULL SCALE	
DISTANCE	HEIGHT
60km	250m
120km	1000m
240km	4000m

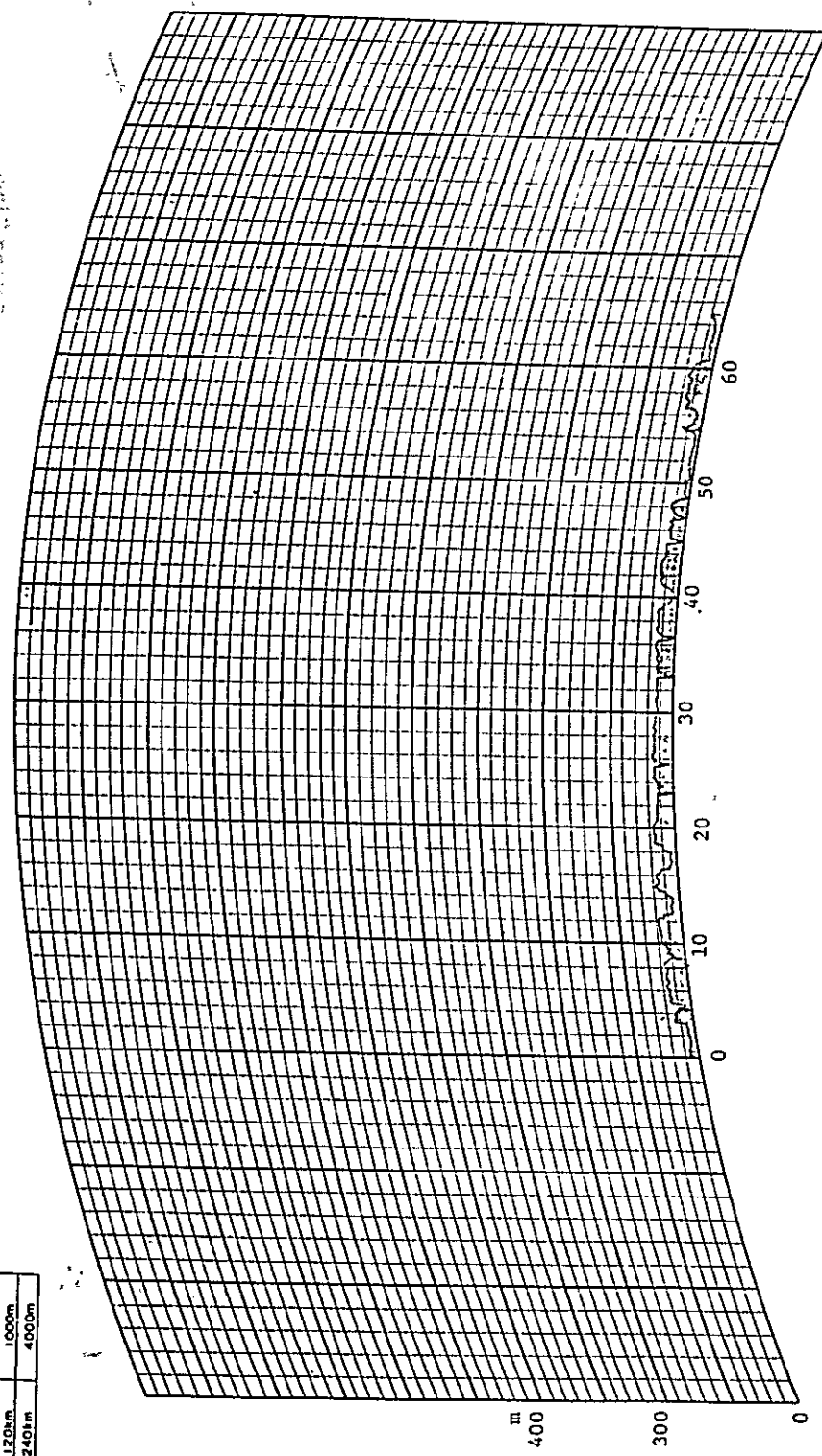


付図 III - 2 - 4 - 2 - 52

SITE: <u>Tebing Tinggi</u>	SITE: <u>Limapuluh</u>
GROUND ELEVATION: <u>10</u> m	GROUND ELEVATION: <u>27</u> m
ANTENNA HEIGHT: _____ m	ANTENNA HEIGHT: _____ m
DISTANCE: <u>36.2</u> km	

Asahan
PATH PROFILE (4/3 RADIUS)

FULL SCALE	
DISTANCE	HEIGHT
60km	250m
120km	1000m
240km	4000m



付図 III - 2 - 4 - 2 - 53

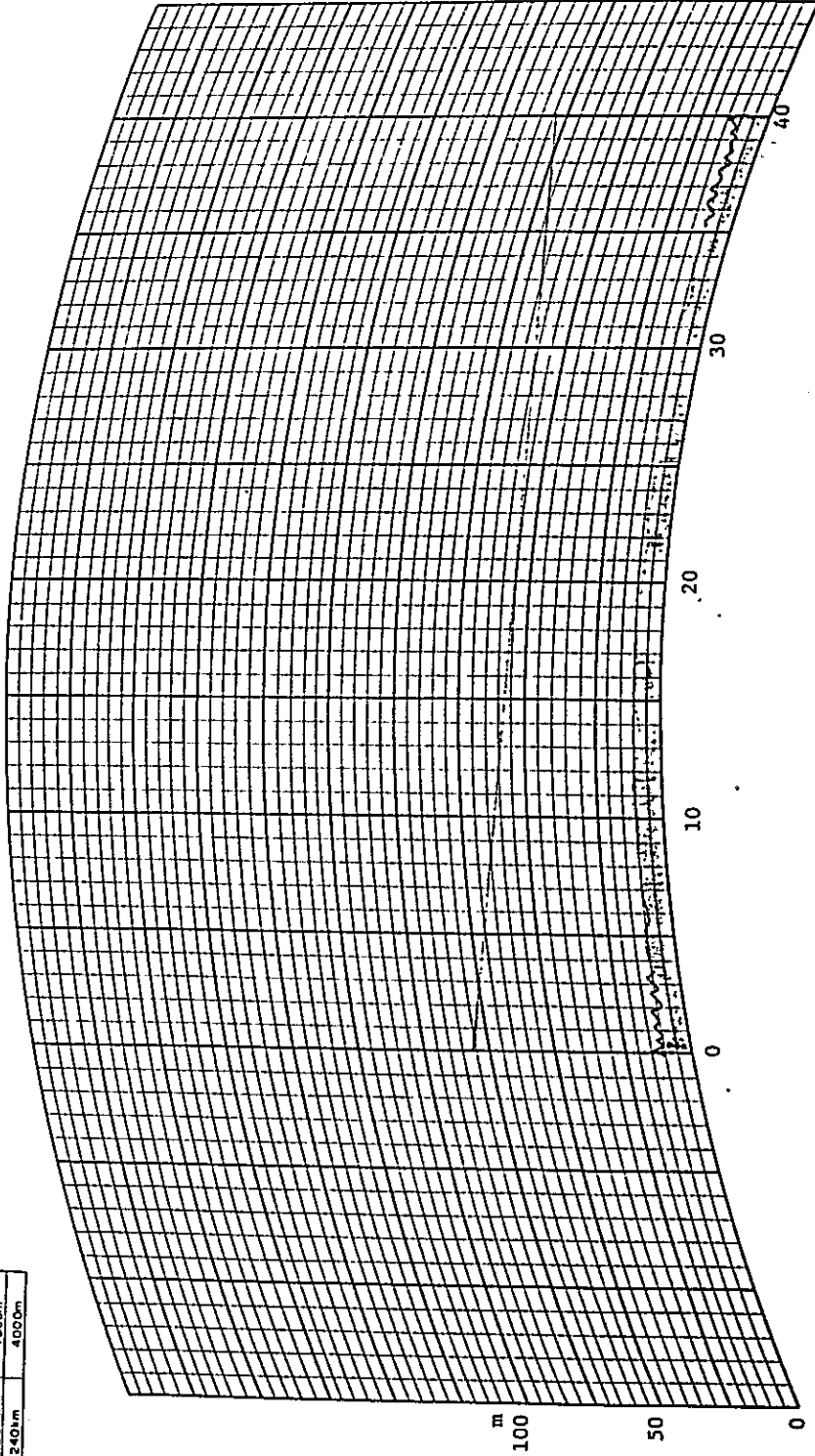
SITE Tebing Tinggi
 GROUND ELEVATION 10 m
 ANTENNA HEIGHT: _____ m

SITE Kisaran
 GROUND ELEVATION 20 m
 ANTENNA HEIGHT _____ m

DISTANCE 64.3 km

Asahan
PATH PROFILE (4/3 RADIUS)

FULL SCALE	
DISTANCE	HEIGHT
60km	250m
120km	1000m
240km	4000m



付図 III - 2 - 4 - 2 - 54

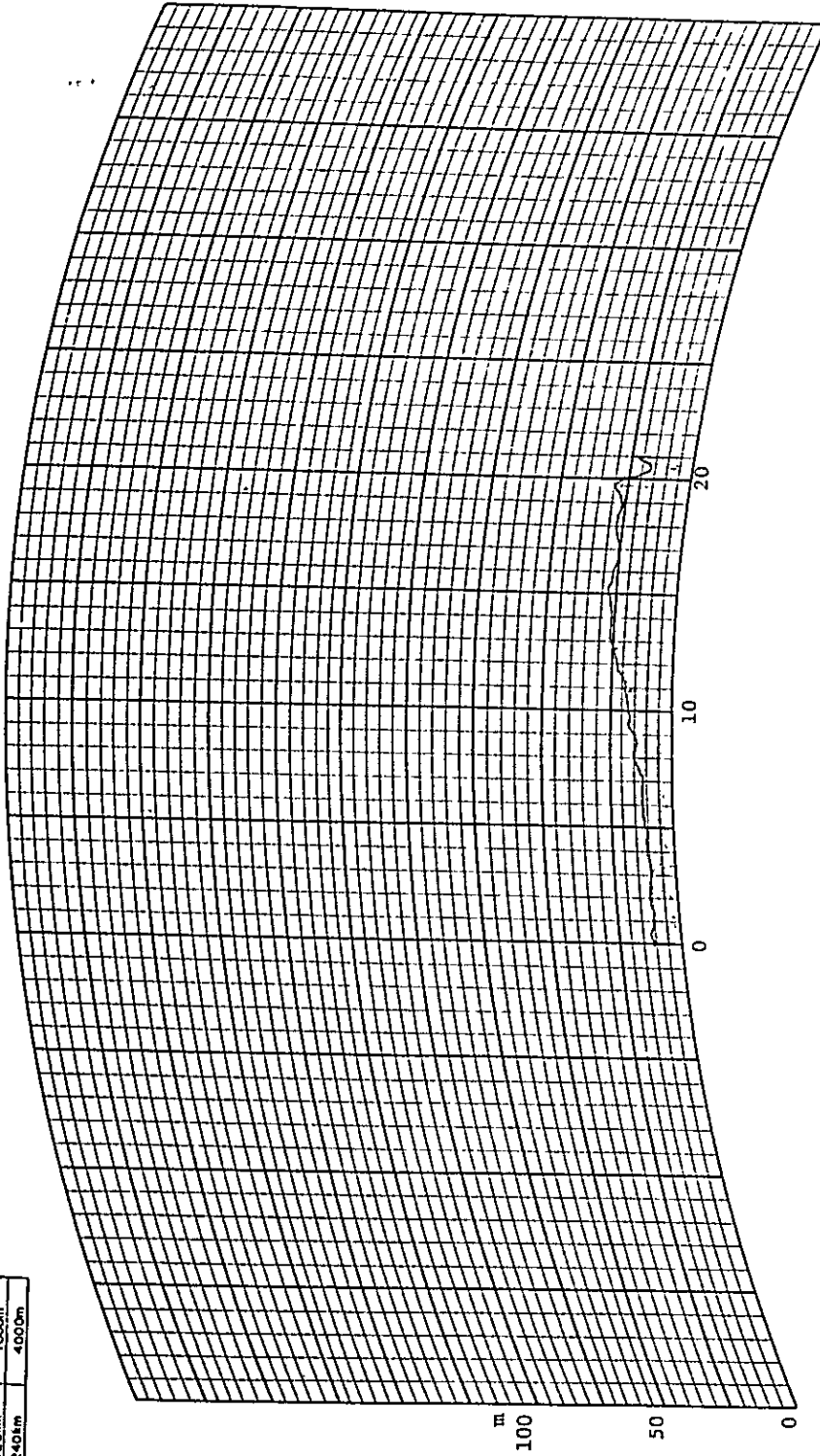
SITE: Lubuk Pakam
GROUND ELEVATION: 10 m
ANTENNA HEIGHT: _____ m

SITE: Tebing Tinggi
GROUND ELEVATION: 10 m
ANTENNA HEIGHT: _____ m

DISTANCE: 39.6 km

Asahan
PATH PROFILE (4/3 RADIUS)

FULL SCALE	
DISTANCE	HEIGHT
60km	250m
120km	1000m
240km	4000m



付図 III - 2 - 4 - 2 - 55

SITE New Town
GROUND ELEVATION 12 m
ANTENNA HEIGHT 0 m

SITE Limapuluh
GROUND ELEVATION 27 m
ANTENNA HEIGHT 0 m

DISTANCE 21.0 km

付表Ⅲ-2-5-2 電源設備モデルの機器構成

特別市電話局用電源設備

電池	.....	48V 25個組 2500AH×1組	* 1
整流装置	.....	48V 500A×2組	
自動電圧調整装置	.....	50KVA×1組	
ディーゼル発電機	.....	75KVA×1組	

郡電話局用電源設備

電池	.....	48V 25個組 800AH×1組	* 1
整流装置	.....	48V 200A×2組	
自動電圧調整装置	.....	30KVA×1組	* 2
ディーゼルエンジン発電機	.....	シングルタイプ 25KVA デュアルタイプ 50KVA	* 3

無線端局(電話交換機なし)用電源設備

電池	.....	48V 25個組 90AH×1組	* 1
整流装置	.....	48V 20A×2組	
自動電圧調整装置	.....	5KVA×1組	* 2
ディーゼルエンジン発電機	.....	シングルタイプ 5KVA デュアルタイプ 10KVA	* 3

太陽電池式電源装置

太陽電池	.....	250W×1組	
電池	.....	24V 290AH×1組	* 4
制御装置	.....	1組	

- (注) * 1 : 電池の保持時間を8時間と仮定した。
 * 2 : 自動電圧調整装置は商用電源が利用できる局所に適用した。
 * 3 : 商用電源が利用できる局所には、シングルタイプを、商用電源が利用できない局所には、デュアルタイプを、適用した。
 * 4 : 非常用電源として更に携帯形整流装置(32V 25A)およびエンジン発電機(3KVA)各1組を保守センターへ配備する。

付表IV-1-1-1 南スラウェシ需要予測

Kabupaten	Year	Kecamatan Code									
		21	22	23	24	25	26	27	28		
Gowa (Code: 2)	1980	125	286	213	295	87	116	385	72		
	1985	148	339	253	338	104	138	450	86	(25) MANUAL	
	1995	206	479	358	477	147	195	616	9	(27) AUTO	
	2005	298				209	276	850			
	Y K	31	32	33	34	35	36				
Takalar (Code: 3)	1980	8	9	3	5	44	4				
	1985	8	9	3	6	48	5			(35) AUTO	
	1995	10	12	4	7	59	6				
	2005		14								
	Y K	41	42	43	44	45					
Jeneponto (Code: 4)	1980	228	128	84	94	78					
	1985	260	32	21	23	20					
	1995	340	204	137	150	126				(41) AUTO	
	2005	448	279	190	205	174					
	Y K	51	52	53	54						
Bantaeng (Code: 5)	1980	63	129	62						(52) AUTO	
	1985	47	147	49							
	1995	47	191	49							
	2005	136									
	Y K	61	62	63	64	65	66	67			
Bulukumba (Code: 6)	1980	230	155	101	43	29	30	28		(61) AUTO	
	1985	261	37	26	11	7	8	7			
	1995	337	236	163	70	47	48	46			
	2005		316	226	97	65		63			
	Y K	71	72	73	74	75					
Sinjai (Code: 7)	1980	138	38	26	45	27				(71) AUTO	
	1985	157	45	31	53	34					
	1995	201	61	42	73	47					
	2005	261	85	57		64					
	Y K										

注：郡コードと郡名との対照は、付図IV-1-2-1を参照。

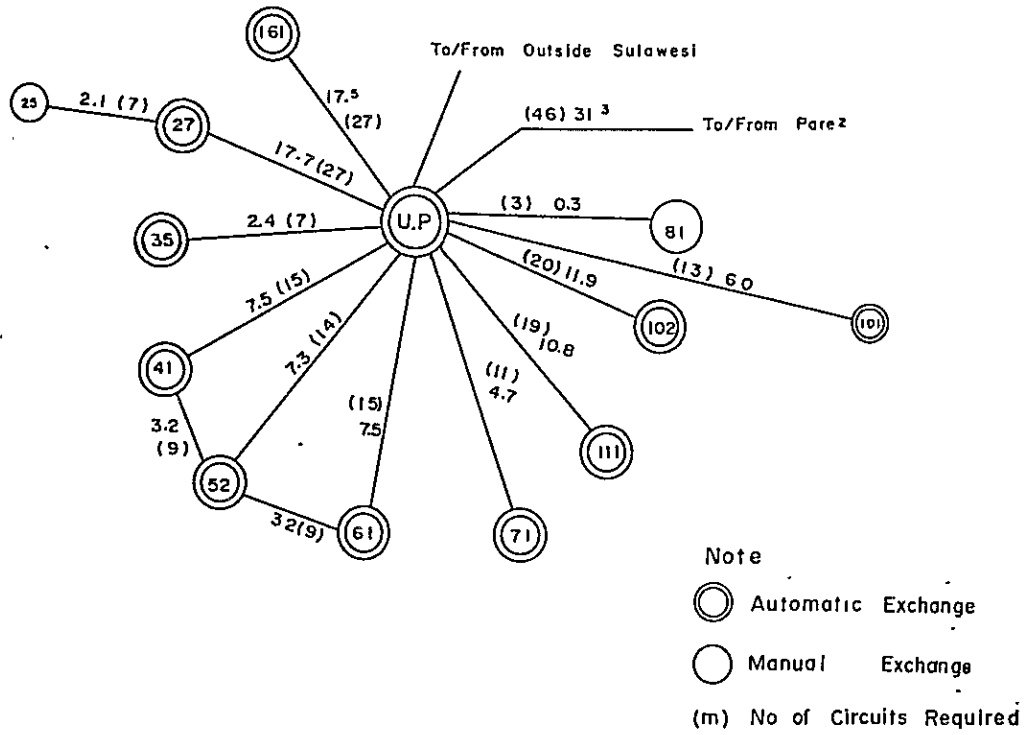
需要数 / 充足数 を示す。

Kabupaten	Year	Kecamatan Code									
		81	82	83	84	85					
Selayar (Code: 8)	1980	13	7	2	2	2					
	1985	14	13	2	3	2				(81) MANUAL	
	1995	17	17	2	3	2					
	2005	21	12	2	4	2					
Maros (Code: 10)	Y K	101	102	103	104						
	1980	171	337	130	77					(101) AUTO	
	1985	201	346	153	91					(102) AUTO	
	1995	278	548	214	129						
2005	386	761	299	180							
Pangkep (Code: 11)	Y K	111	112	113	114	115	116	117	118	119	
	1980	227	78			65	69	*	*	*	
	1985	261	25	30	19	22	58	*	*	*	
	1995	367	25	30	19	22	80	*	*	*	
2005	450	171	209	134	151	113	*	*	*		
Barru (Code: 12)	Y K	121	122	123	124	125					
	1980	46	3	6	12	5				(121) AUTO	
	1985	59	3	3	3	3					
	1995	63	3	3	3	3					
2005	98	12	19	31	18						
Pinrang (Code: 13)	Y K	131	132	133	134	135	136	137			
	1980	187	25	17	28	31	31	15		(131) AUTO	
	1985	222	18	19	21	21	25	3			
	1995	273	18	21	21	21	25	3			
2005	331	44	29	52	52	62	23				
Sidrap (Code: 14)	Y K	141	142	143	144	145	146	147			
	1980	106	36	20	16	32	20	16		(141) AUTO	
	1985	153	36	21	16	33	22	19		(142) MANUAL	
	1995	187	44	24	20	39	27	24		(145) MANUAL	
2005	232	54	31	24	48	32	29				

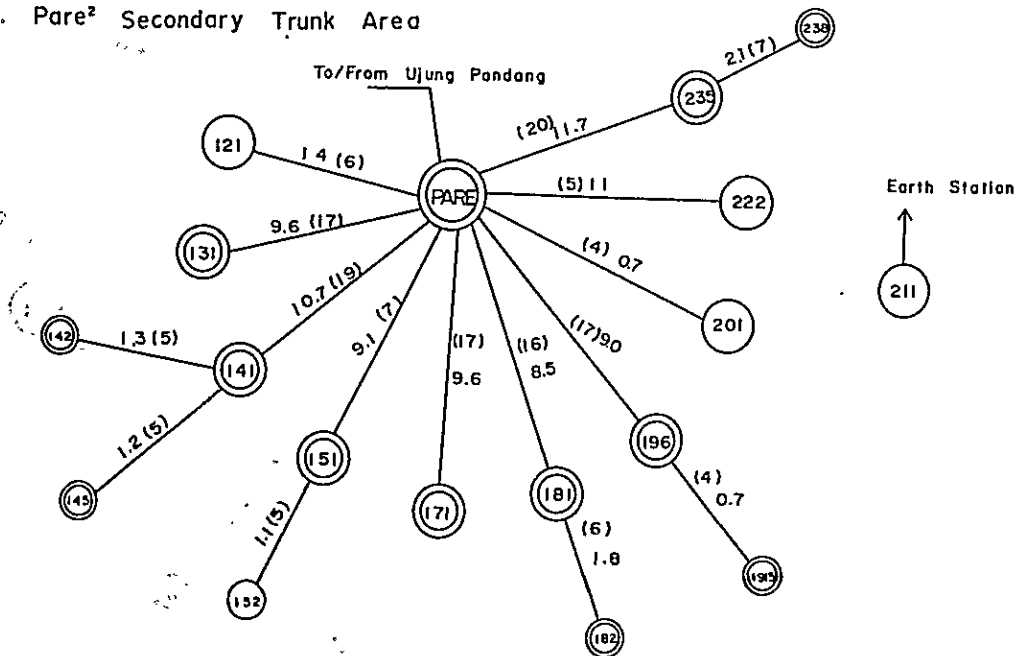
Kabupaten	Year	Kecamatan Code									
		151	152	153	154	155					
Soppeng (Code: 15)	1980	179	55	45	31	28					(5) AUTO
	1985	183	57	46	32	28	25				(5) MANUAL
	1995	228	70	56	40	34	25				
	2005	290	110	69	49	42					
Bone (Code: 16)	y K	161	162	163	164	165	166	167	168	169	1610
	1980	347	64	64	30	37	15	21	20	15	18
	1985	390	20	20	9	11	5	7	6	-	-
	1995	491	20	20	9	11	5	7	6	-	-
	2005	632	132	132	65	79	34	46	46	34	40
	y K	1611	1612	1613	1614	1615	1616	1617	1618	1619	1620
	1980	22	20	58	48	18	37	61	44	29	50
	1985	27	-	18	-	-	-	31	23	16	26
	1995	37	-	18	-	-	-	31	23	16	26
	2005	52	48	127	111	41	84	133	99	65	114
	y K	1621									
	1980	11		(16) AUTO							
	1985	13									
	1995	17									
	2005	25							(17) AUTO		
Wajo (Code: 17)	y K	171	172	173	174	175	176	177	178	179	1710
	1980	212	30	16	21	39	35	23	30	28	21
	1985	225	14	8	11	20	15	14	14	-	-
	1995	264	14	8	11	20	15	14	14	-	-
	2005	315	42	19	32	54	40	41	37	38	27
Polmas (Code: 18)	y K	181	182	183	184	185	186	187	188		
	1980	126	42	23	22	7	7	6	4	(18) AUTO	
	1985	150	59	3	3	-	-	-	-	(18) MANUAL	
	1995	184	73	3	3	-	-	-	-		
	2005	209	89	50	51	16	15	9	11		

Kabupaten	Year	Kecamatan Code									
		191	192	193	194	195	196	197	198	199	1910
Luwu (Code: 19)	1980	4	4	12	4	24	154	50	10	2	8
	1985	4	4	13	4	29	142	57	14	3	8
	1995	5	5	13	4	30	2	57	15	8	10
	2005	6	6	16	5	32	239	84	23	3	10
	Y K	1911	1912	1913	1914	1915	1916				
	1980	4	14	4	6	20	2		(198) AUTO		
	1985	5	16	4	6	23	3		(199) AUTO		
	1995	5	16	5	6	23	3				
	2005	5	18	7	9	39	5				
Majene (Code: 20)	Y K	201	202	203	204						
	1980	31	15	16	5				(201) AUTO		
	1985	37	16	16	7						
	1995	45	17	19	7						
	2005	55	20	23	9						
Mamuju (Code: 21)	Y K	211	212	213	214	215	216				
	1980	7	1	3	1	1	1				
	1985	8	1	3	1	1	1		(211) MANUAL		
	1995	10	1	4	2	1	2				
	2005	13	1	5	2	1	2				
Enrekang (Code: 22)	Y K	221	222	223	224	225					
	1980	5	41	7	10	6			(222) AUTO		
	1985	9	56	13	13	10					
	1995	10	69	13	16	12					
	2005	13	104	17	20	15					
Tana Toraja (Code: 23)	Y K	231	232	233	234	235	236	237	238	239	
	1980	77	100	100	97	220	109	59	62	50	
	1985	93	124	138	110	281	127	64	70	63	
	1995	131	174	193	154	345	176	90	47	88	
	2005	174	244	270	217	468	244	126	136	123	
									235	AUTO	
									238	AUTO	

A. Ujung Pandang Secondary Trunk Area



B. Pare² Secondary Trunk Area

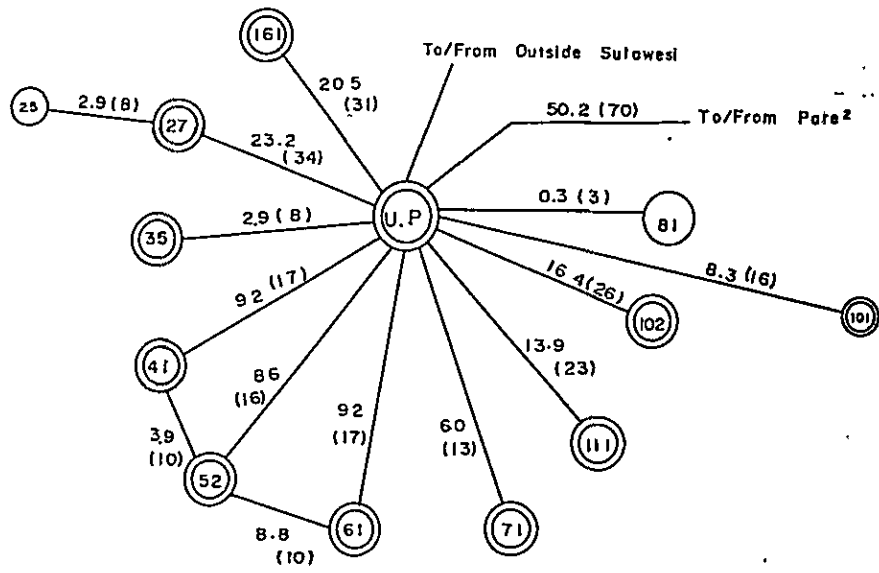


付図IV-1-2-1(A). 1985年時点での所要回線表(南スラウェシ)

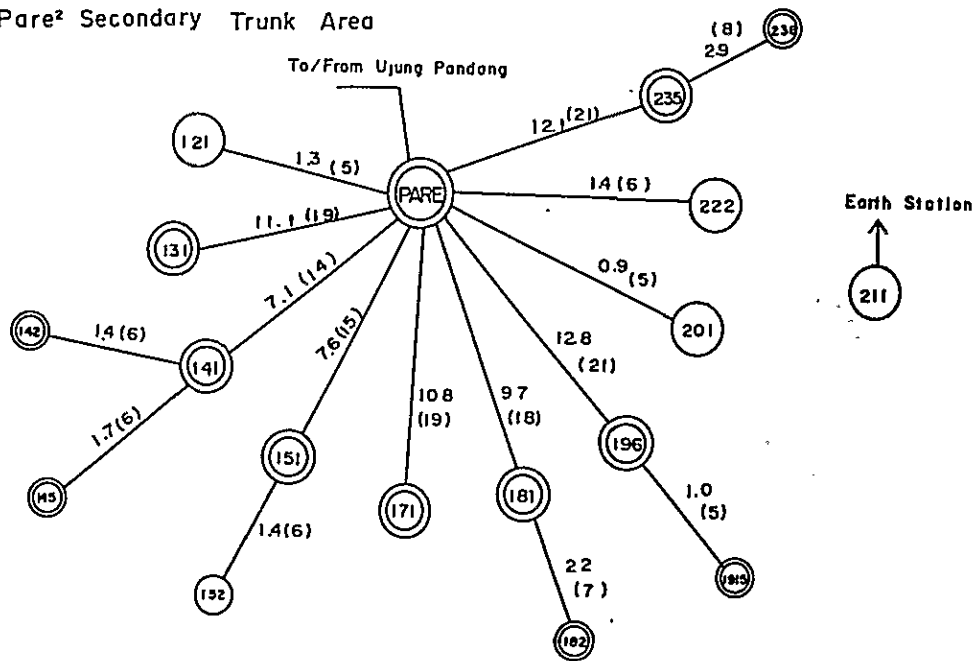
1985年時点

(Erlang)

A. Ujung Pandang Secondary Trunk Area



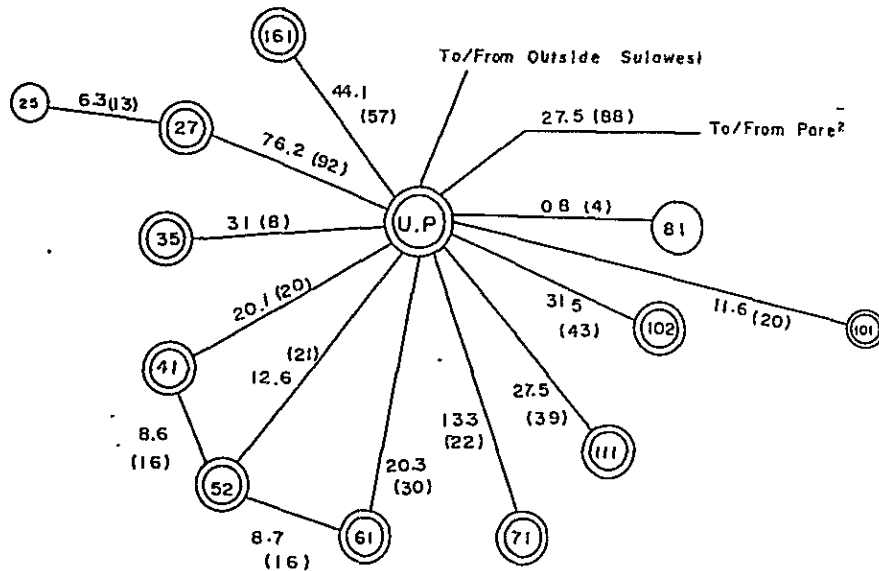
B. Pare² Secondary Trunk Area



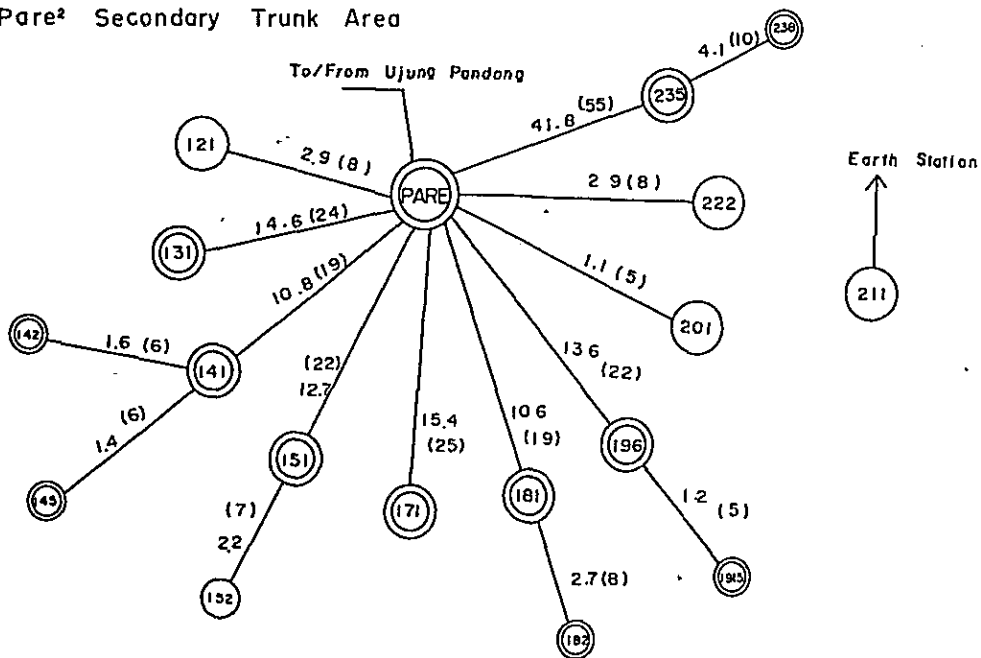
付図IV-1-2-1(B) 1995年時点での所要回線表(南スラウェシ)

(Erlang)

A. Ujung Pandang Secondary Trunk Area



B. Pare² Secondary Trunk Area

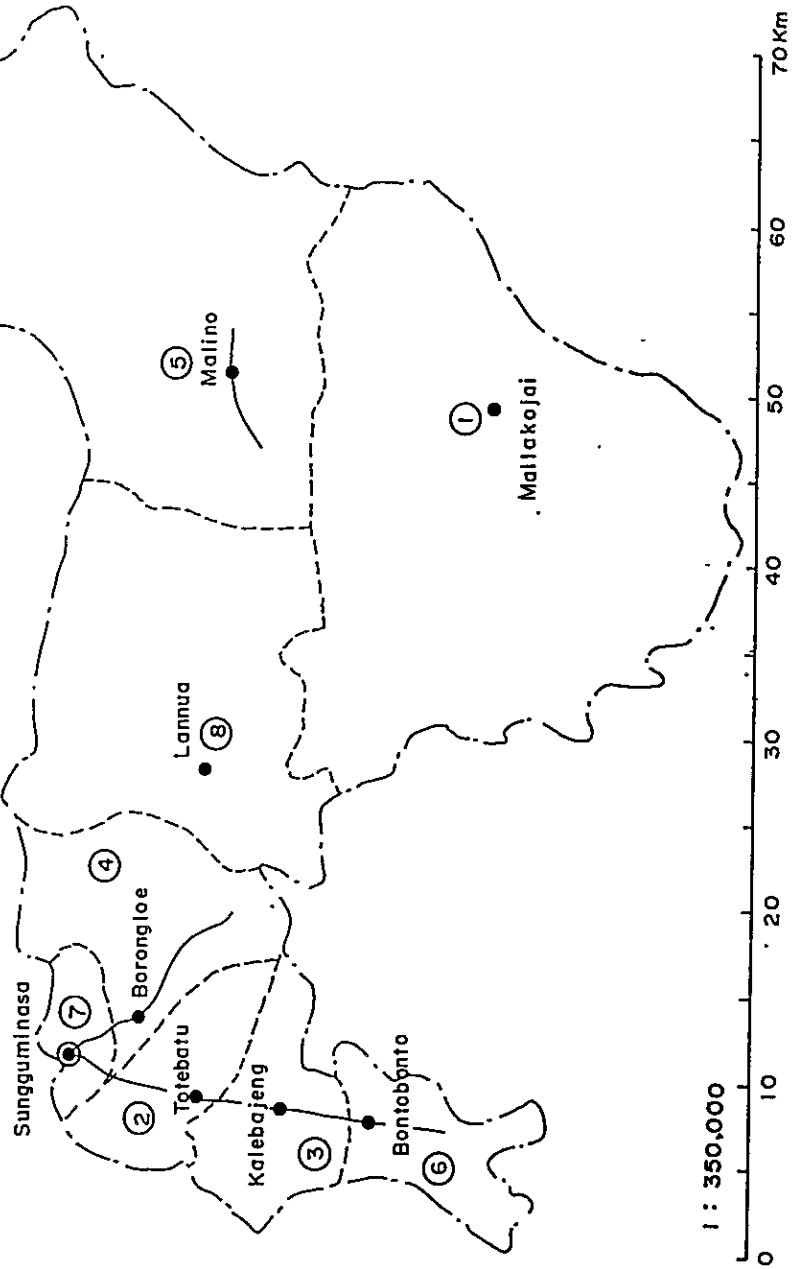


付図IV-1-2-1(C) 2005年時点での所要回線表 (南スラウェシ)

(Erlang)

付図IV-1-2-1 (No 1)
 Kabupaten Gowa (Capital Sungguminasa)
 11Km from Ujung Pandang

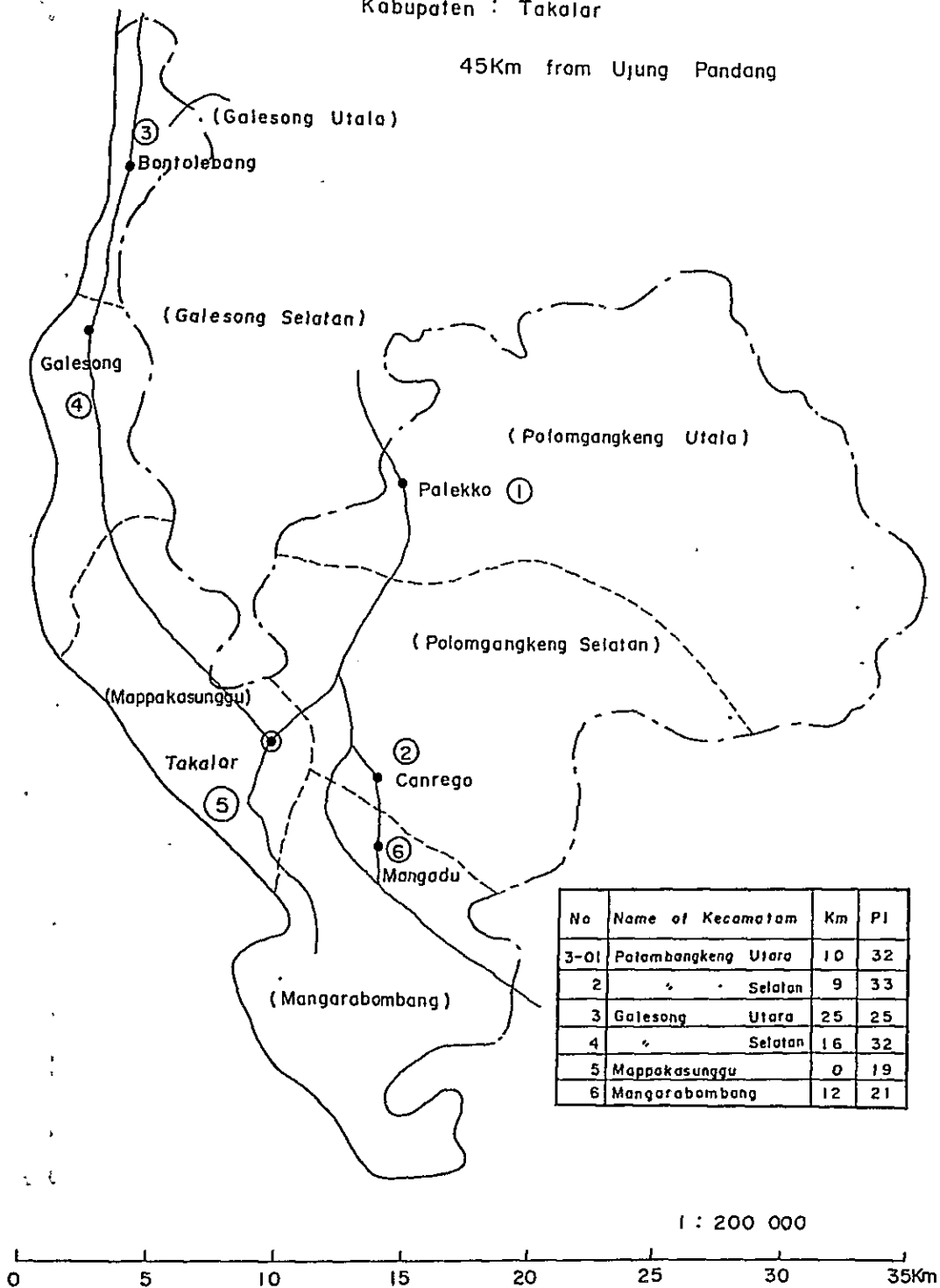
No.	Name of Kecamatan	Km	PI
2-01	Tompobulo	70	63
2	Pallangga	10	53
3	Bajeng	15	47
4	Bontolompo	7	47
5	Tingg. Menceng	60	41
6	Bante Marannu	20	30
7	Somba Opu	0	35
8	Parangloe	22	20



付図IV-1-2-1 (No 2)

Kabupaten : Takalar

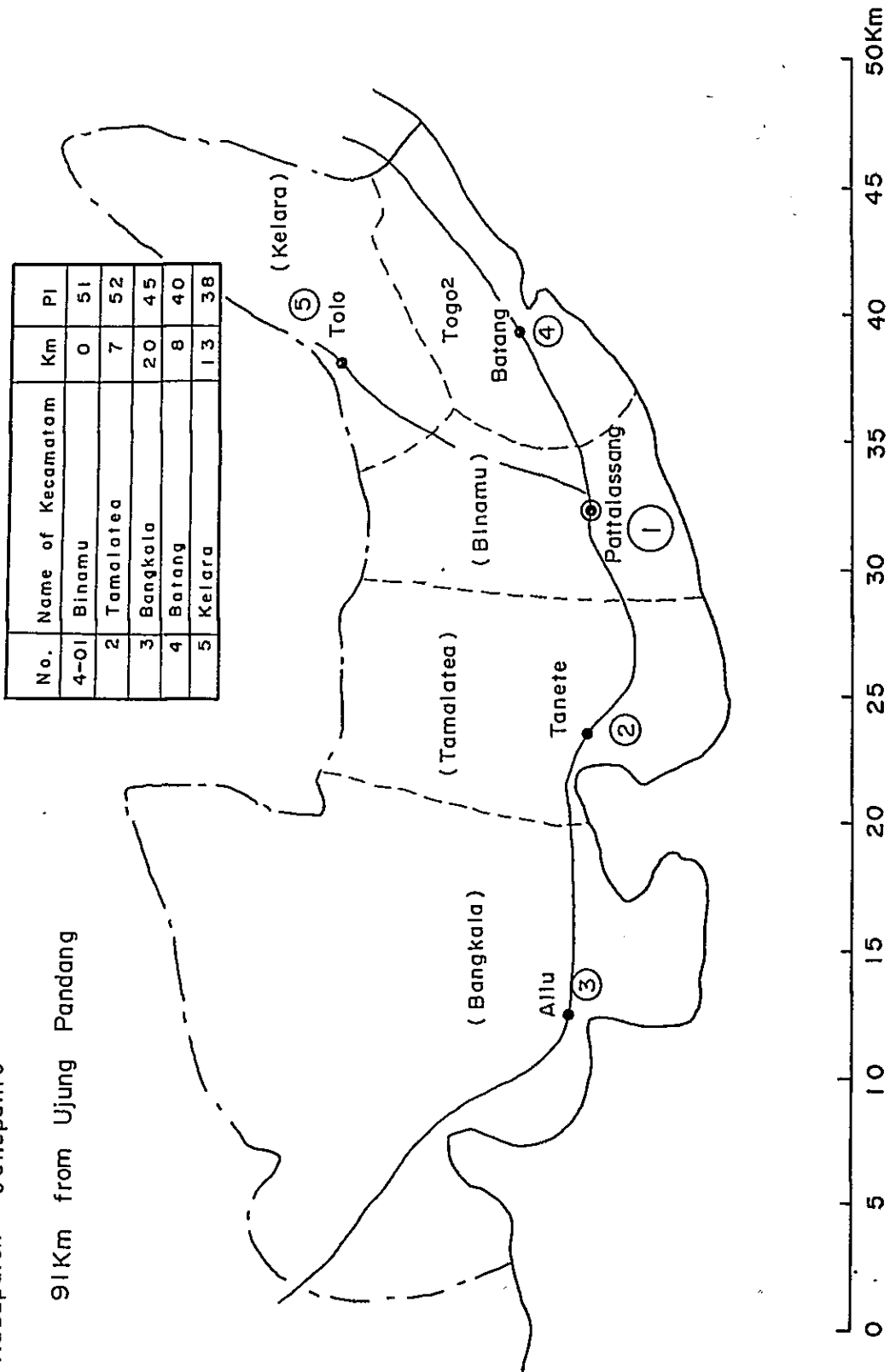
45Km from Ujung Pandang



No	Name of Kecamatan	Km	PI
3-01	Polomgangkeng Utara	10	32
2	" " Selatan	9	33
3	Galesong Utara	25	25
4	" " Selatan	16	32
5	Mappakasunggu	0	19
6	Mangarabombang	12	21

付圖IV-1-2-1 (No. 3)
Kabupaten Jenepanto

91Km from Ujung Pandang

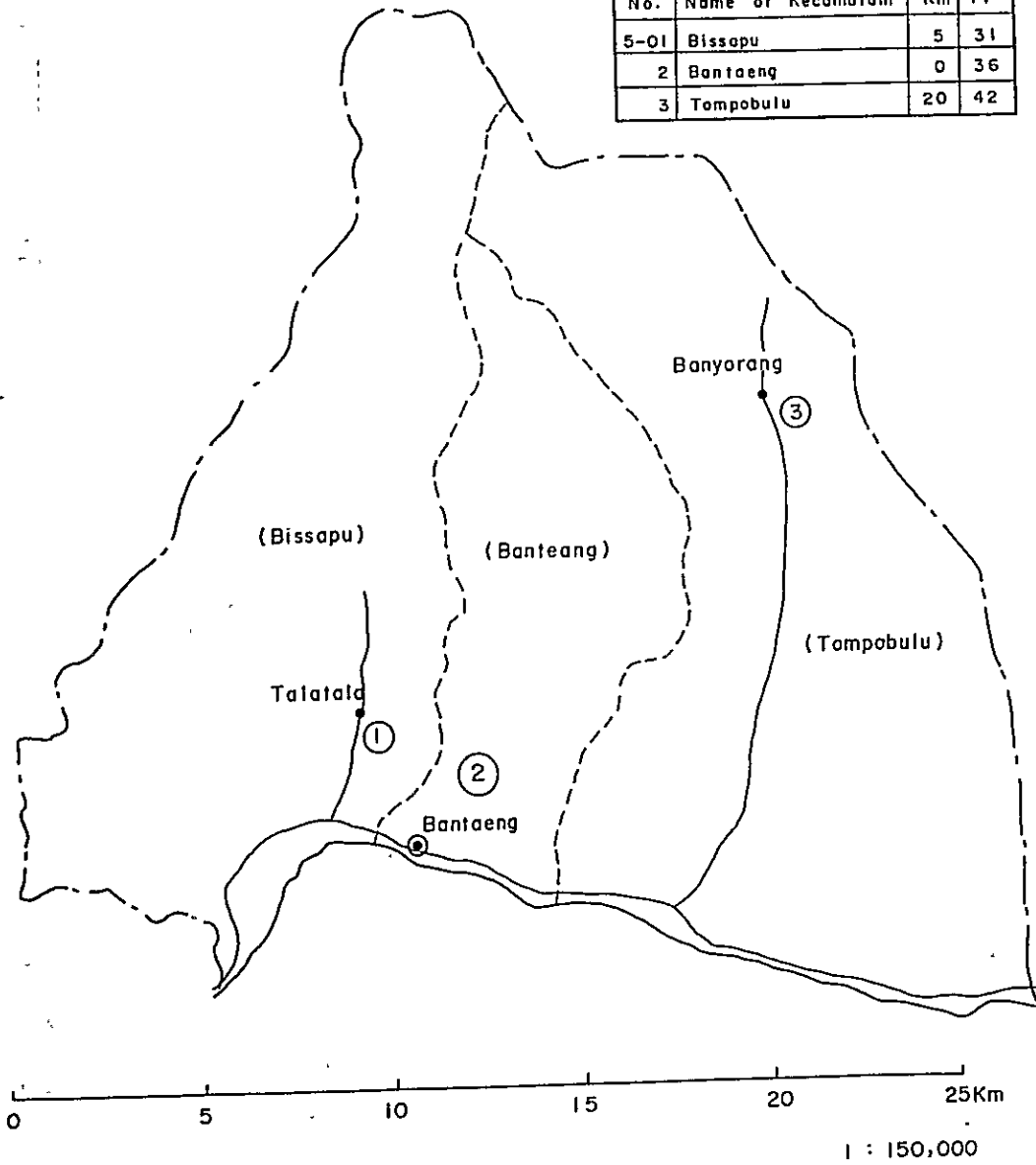


付図IV-1-2-1 (No. 4)

Kabupaten Bantaeng

123 Km from Ujung Pandang

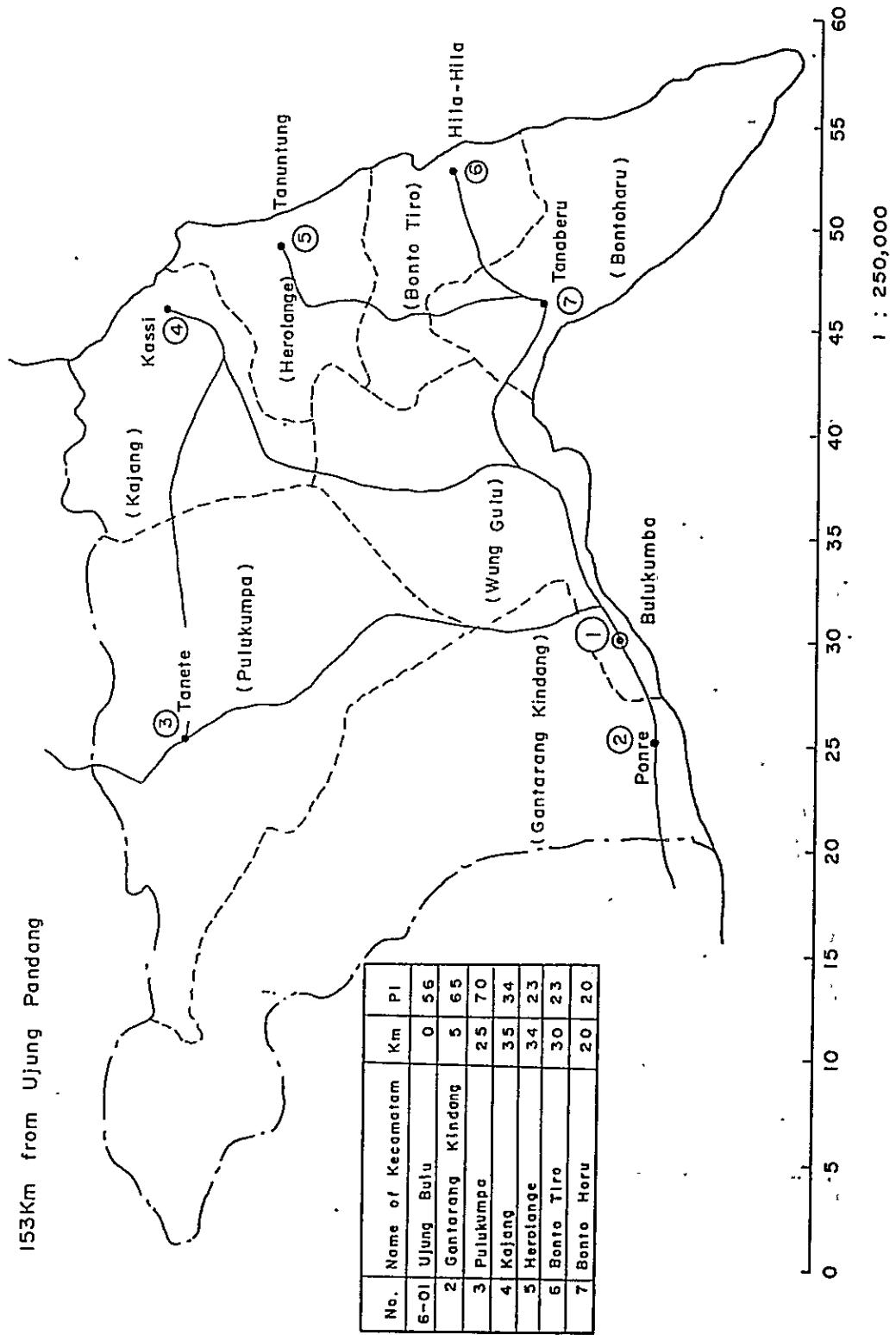
No.	Name of Kecamatan	Km	PI
5-01	Bissapu	5	31
2	Bantaeng	0	36
3	Tompobulu	20	42



付圖 IV-1-2-1 (No. 5)

Kabupaten Bulukumba

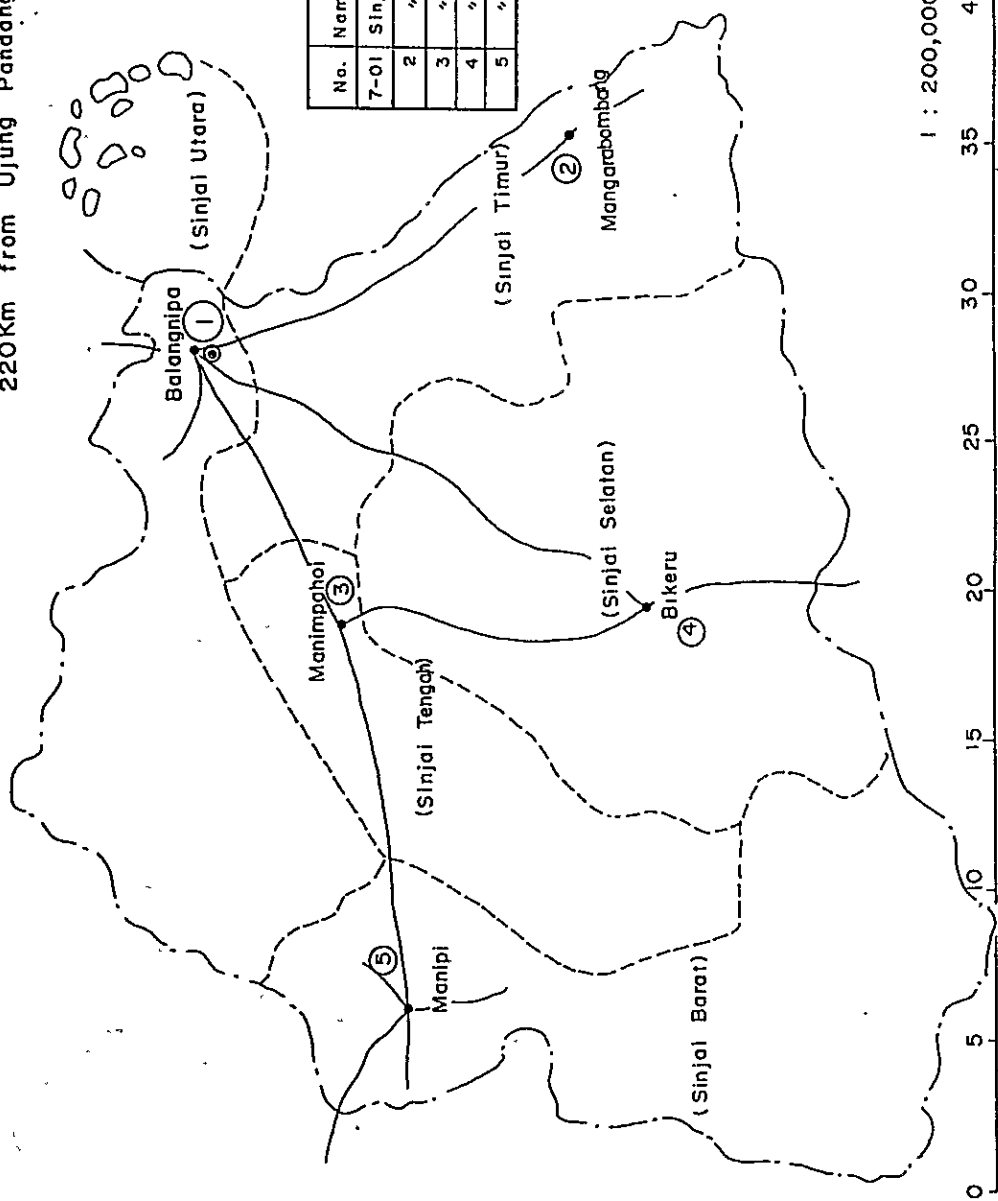
153Km from Ujung Pandang



付圖IV-1-2-1 (No 6)

Kabupaten Sinjai

220Km from Ujung Pandang

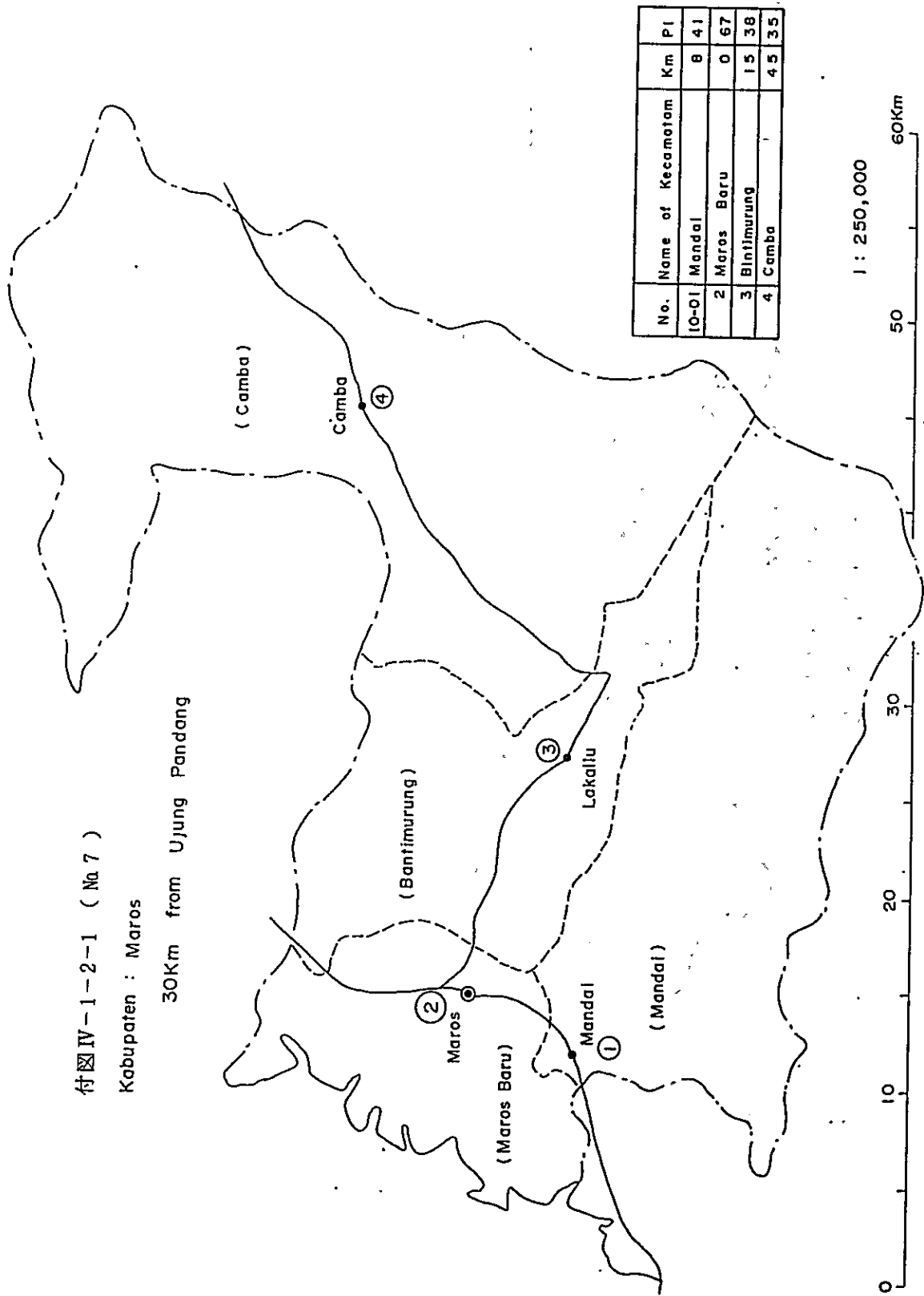


No.	Name of Kecamatan	Km	PI
7-01	Sinjai Utara	0	41
2	" Tinur	18	33
3	" Tengah	12	21
4	" Selatan	19	39
5	" Barat	25	27

付圖 IV-1-2-1 (No. 7)

Kabupaten : Maros

30Km from Ujung Pandang



No.	Name of Kecamatan	Km	Pl
1	Mandal	8	41
2	Maros Baru	0	67
3	Bantimurung	15	38
4	Camba	45	35

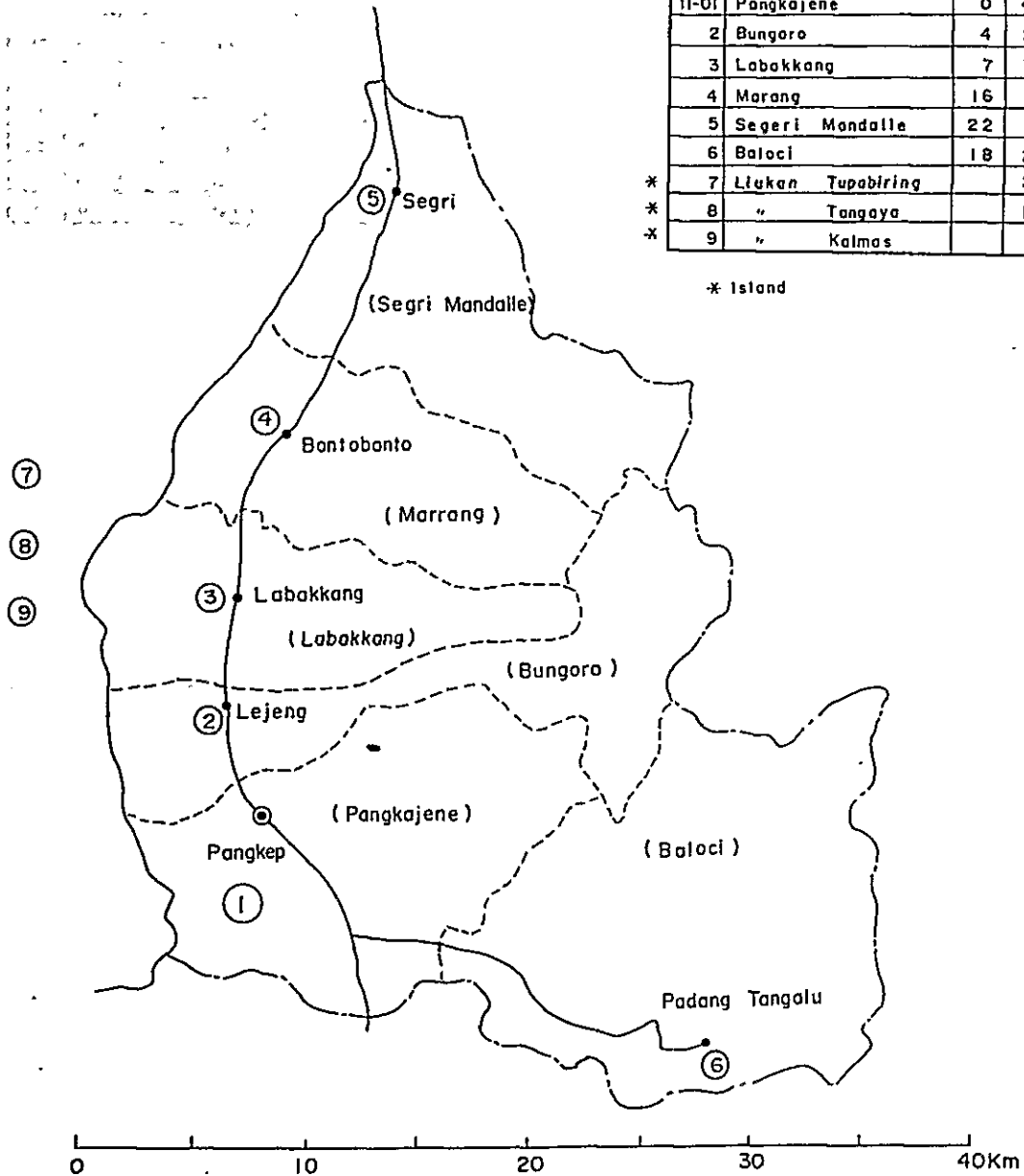
付図IV-1-2-1 (No 8)

Kabupaten : Pangkajene

51Km from Ujung Pandang

No	Name of Kecamatan	Km	PI
11-01	Pangkajene	0	43
2	Bungoro	4	23
3	Labakkang	7	31
4	Marang	16	24
5	Segeri Mandalle	22	29
6	Baloci	18	21
* 7	Llukan Tupabiring		20
* 8	" Tangaya		10
* 9	" Kalmas		8

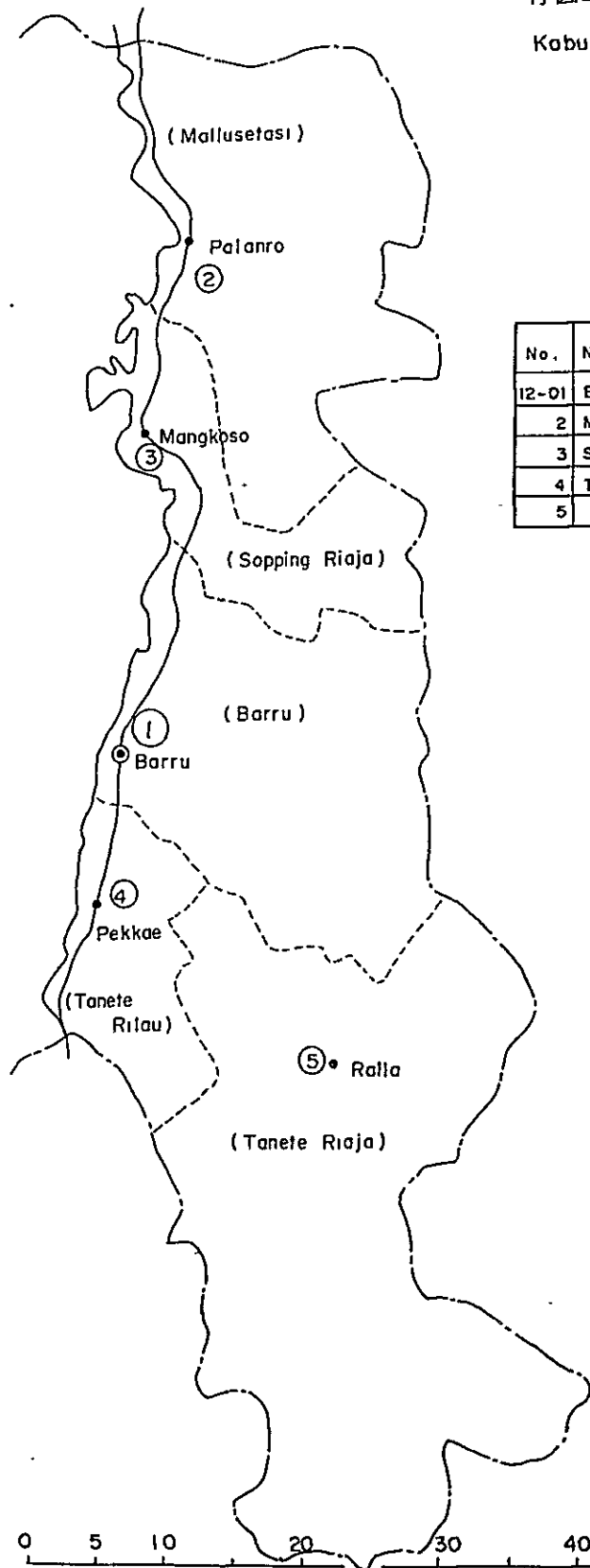
* Island



付図IV-1-2-1 (No 9)

Kabupaten : Barru

63Km from Pare-Pare



No.	Name of Kecamatan	Km	PI
12-01	Barru	0	33
2	Mallusetasi	40	21
3	Soppengriaja	25	26
4	Tanete Riatu	10	28
5	" Riatu	40	31

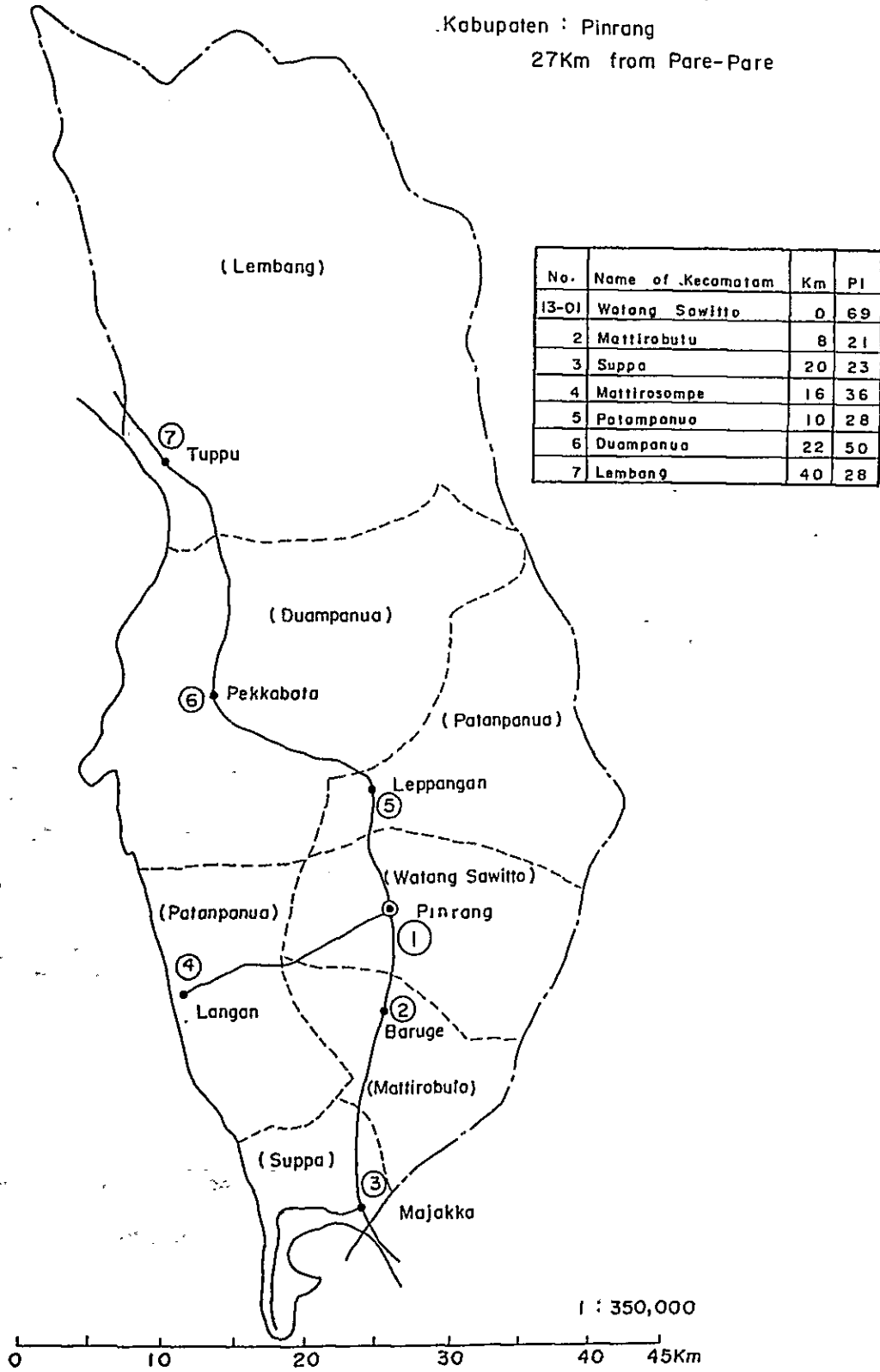
1 : 400,000

0 5 10 20 30 40 45Km

付図IV-1-2-1 (No.10)

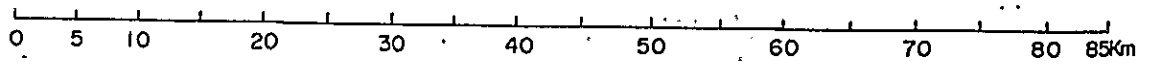
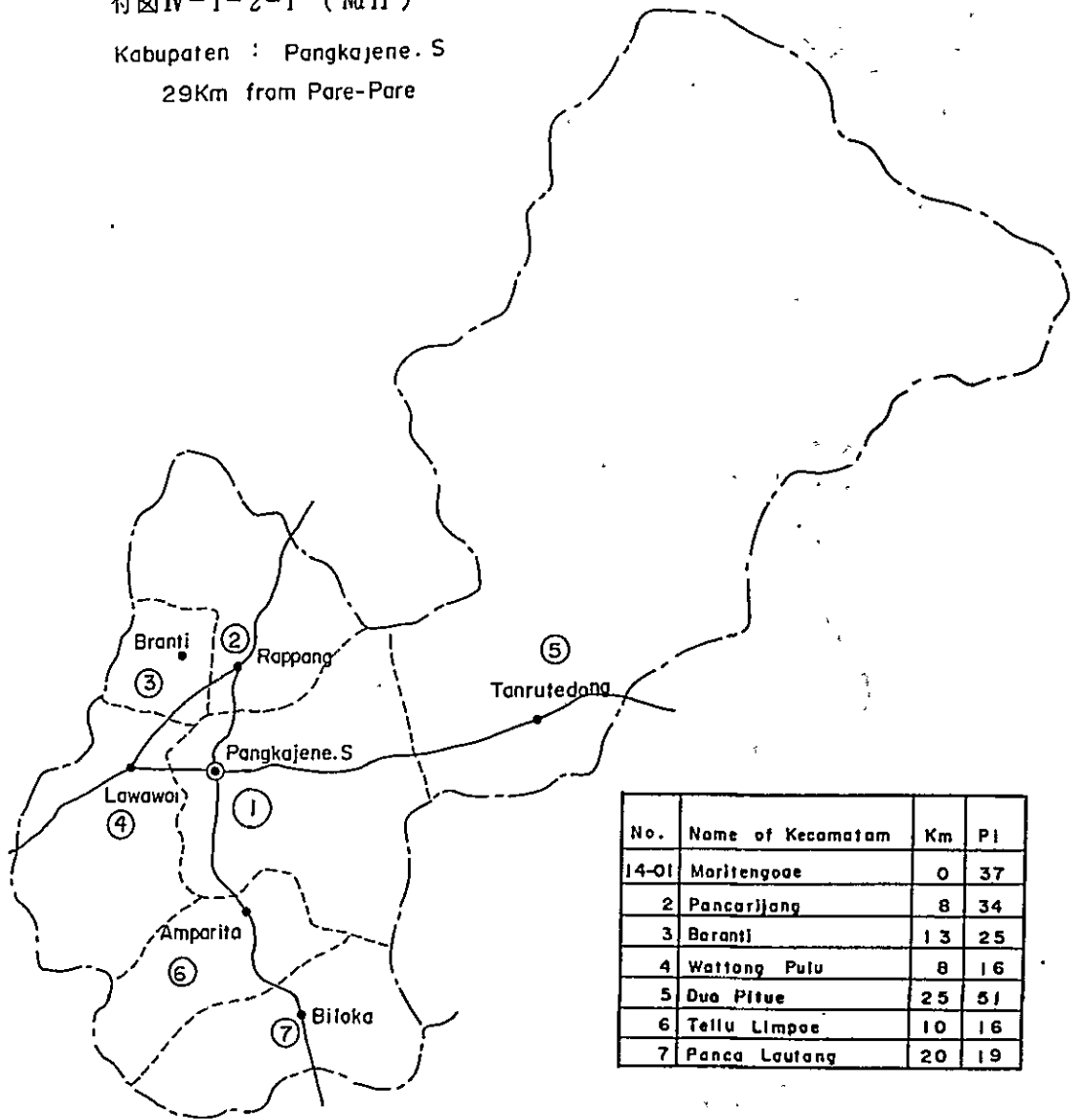
Kabupaten : Pinrang

27Km from Pare-Pare



付図IV-1-2-1 (No.11)

Kabupaten : Pangkajene. S
29Km from Pare-Pare



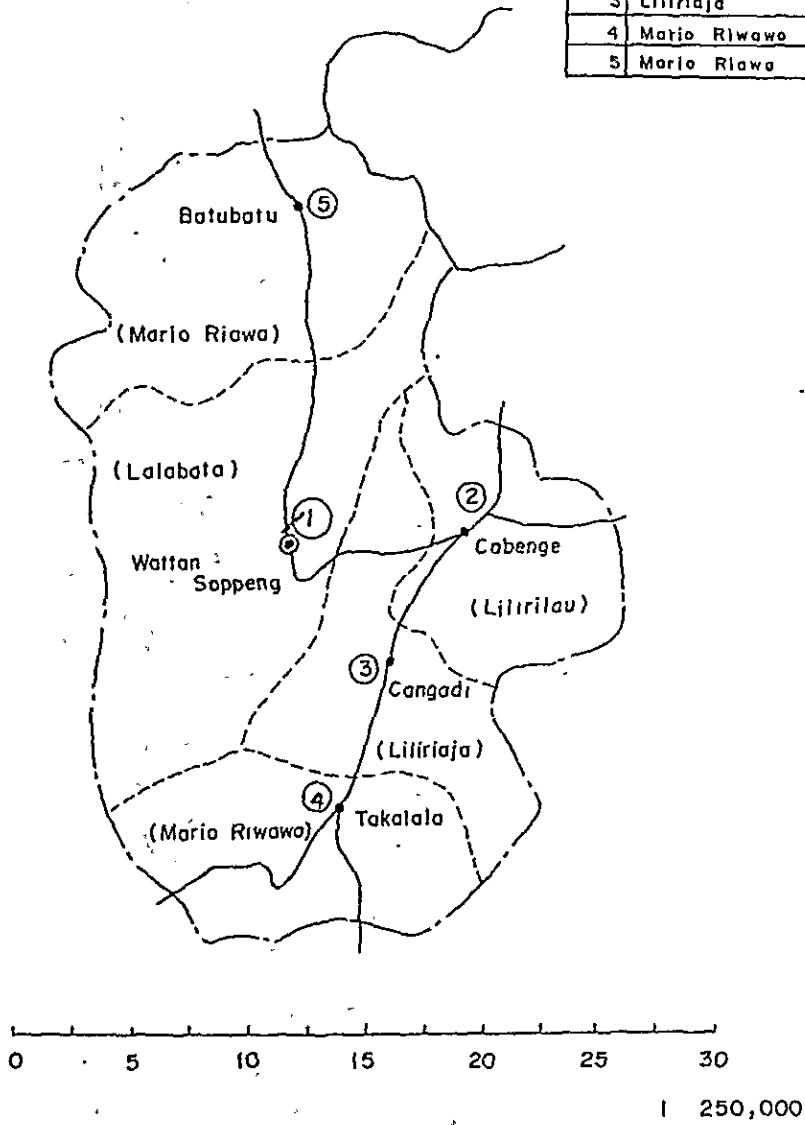
1 : 450,000

付図IV-1-2-1 (No.12)

Kabupaten : Watansoppeng

87Km from Pare-Pare

No.	Name of Kecamatan	Km	PI
15-01	Lalabata	0	65
2	Lilirilau	12	52
3	Liliraja	15	50
4	Mario Riwawo	23	45
5	Mario Riawa	15	31

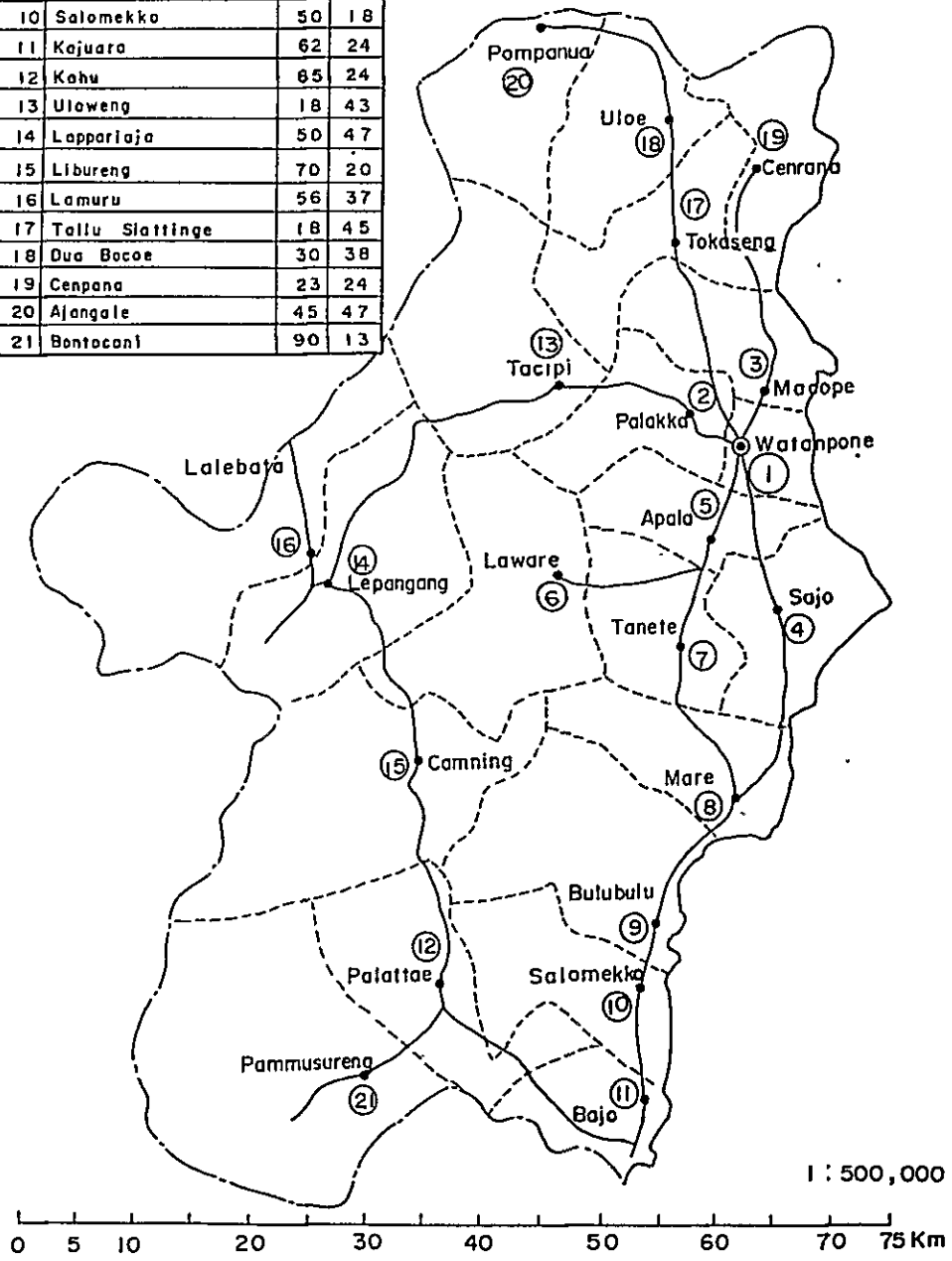


付図IV-1-2-1 (No.13)

Kabupaten : Bone

144Km from U.P.(Via Ujunglamuru)

No.	Name of Kecamatan	Km	PI
16-01	Tanete Riattang	0	52
2	Palakka	6	34
3	Awang Pone	6	34
4	Sibulue	15	22
5	Barebba	10	24
6	Ponre	23	13
7	Cina	20	17
8	Mare.	35	19
9	Tonra	45	15
10	Salomekko	50	18
11	Kajuara	62	24
12	Kahu	65	24
13	Uloweng	18	43
14	Lapparlaja	50	47
15	Libureng	70	20
16	Lamuru	56	37
17	Tallu Slattinge	18	45
18	Dua Bocoe	30	38
19	Cenrana	23	24
20	Ajangale	45	47
21	Bontocani	90	13

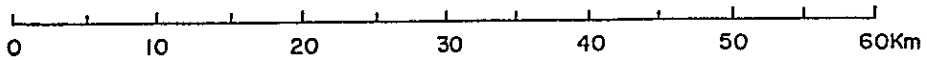
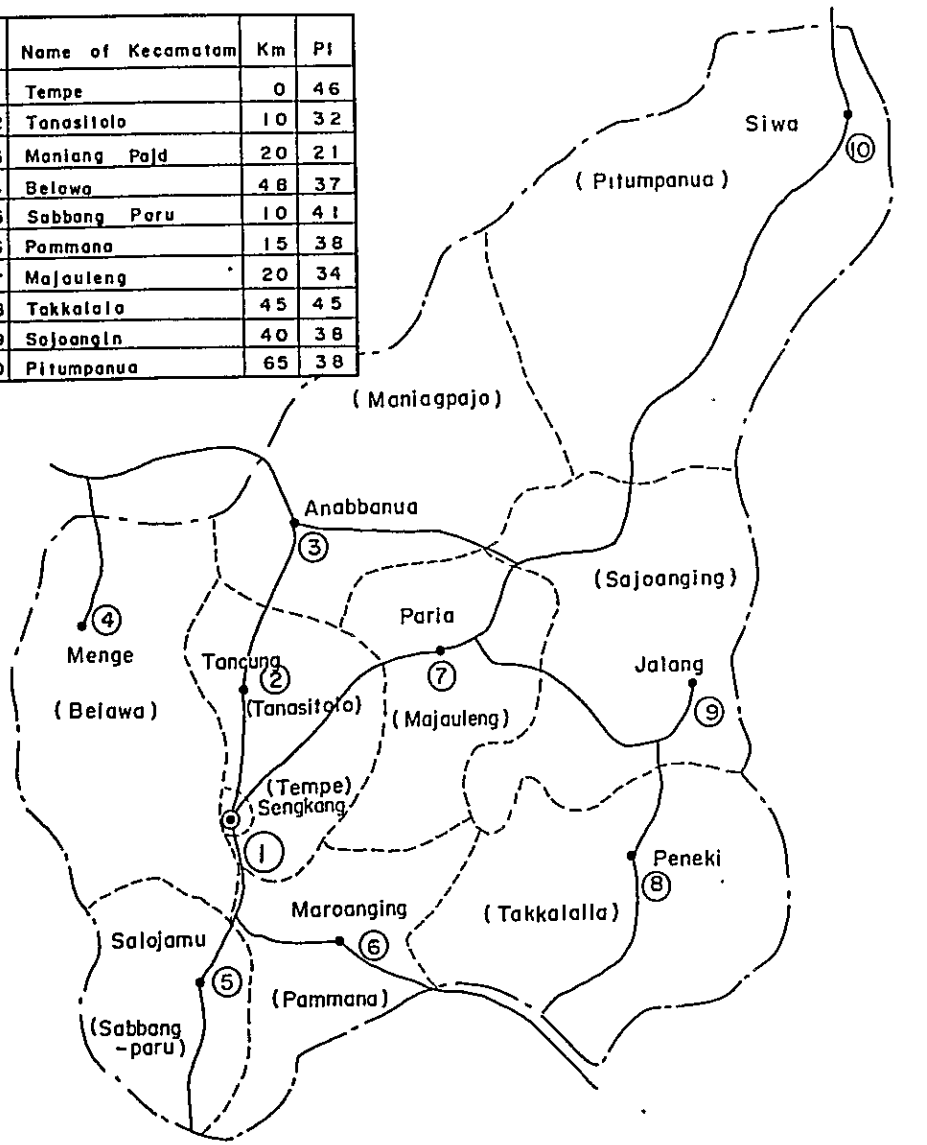


付図IV-1-2-1 (No 14)

Kabupafen : Wajo

85Km from Pare-Pare

No.	Name of Kecamatan	Km	PI
17-01	Tempe	0	46
2	Tanasitolo	10	32
3	Maniang Pajd	20	21
4	Belawa	48	37
5	Sabbang Peru	10	41
6	Pammana	15	38
7	Majauleng	20	34
8	Takkalala	45	45
9	Sajoangin	40	38
10	Pitumpanua	65	38



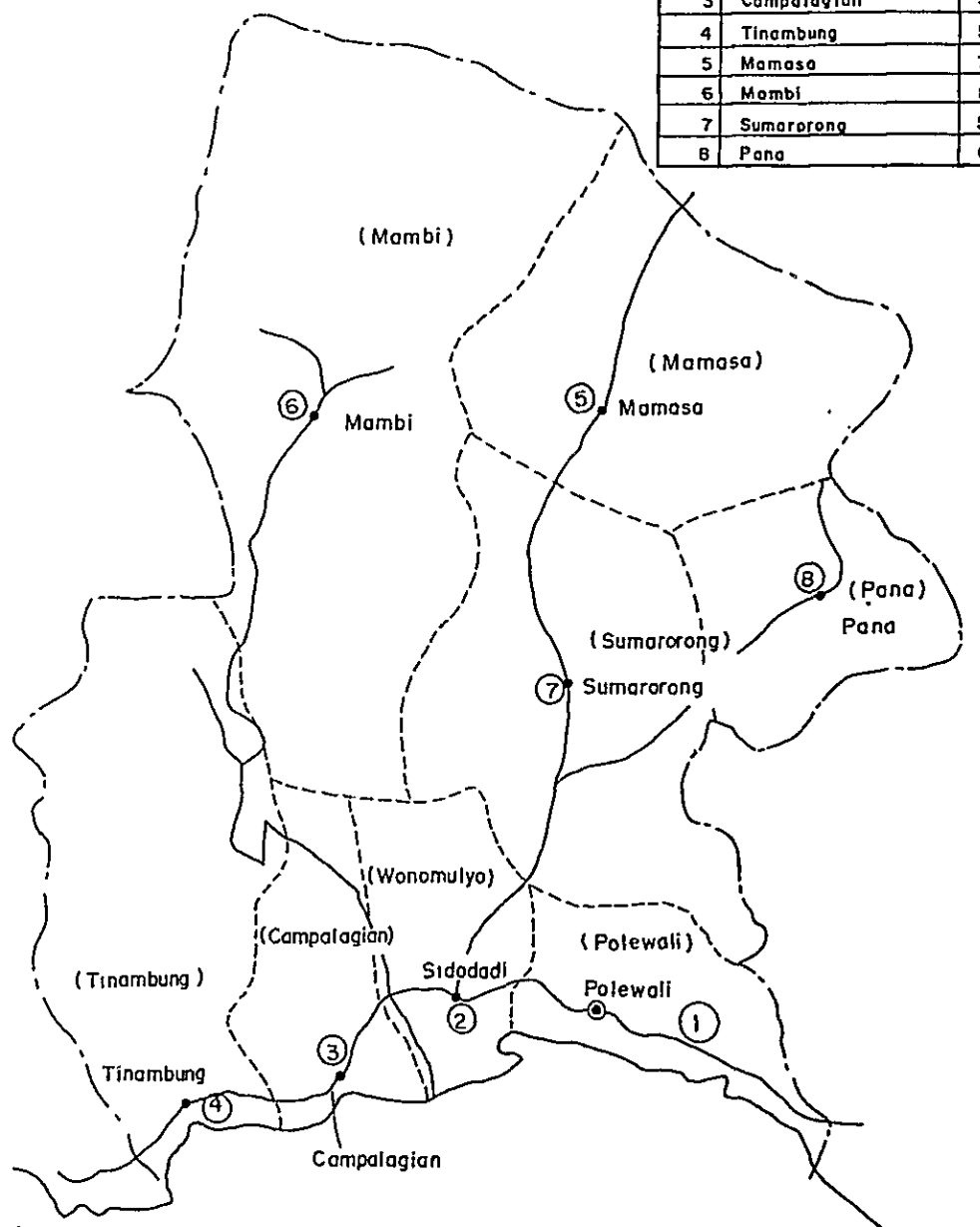
1 : 400,000

付図IV-1-2-1 (No.15)

Kabupaten : Polewali-mas

92Km from Pare-Pare

No.	Name of Kecamatan	Km	pl
1B-01	Polewali	0	66
2	Wonomulyo	20	74
3	Campalagian	34	57
4	Tinambung	50	71
5	Mamasa	75	29
6	Mambi	85	29
7	Sumarorong	52	13
8	Pana	68	16



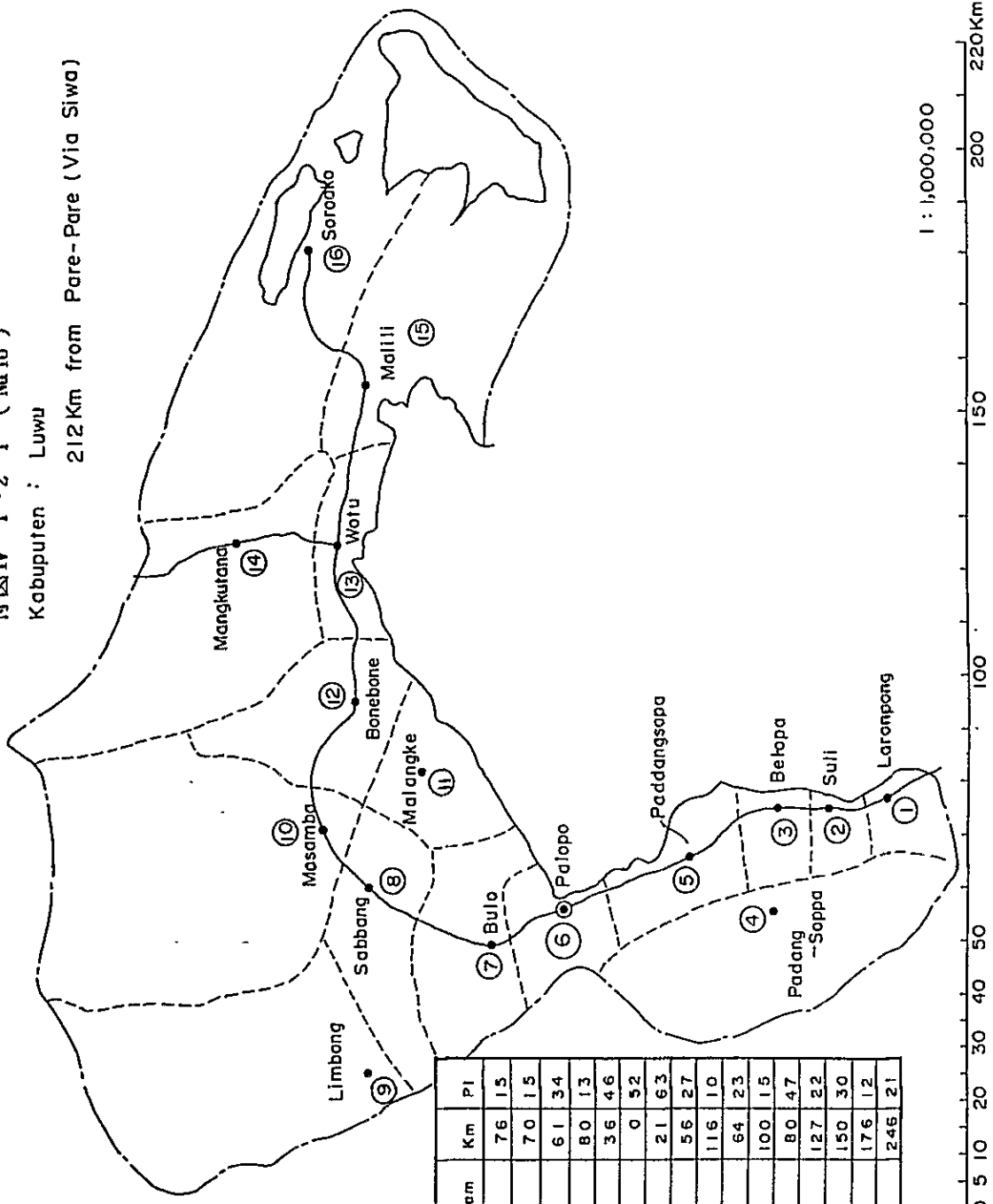
0 10 20 30 40 50 60 70 80Km

1 : 500,000

付圖 IV-1-2-1 (No.16)

Kabupaten : Luwu

212 Km from Pare-Pare (Via Siwa)

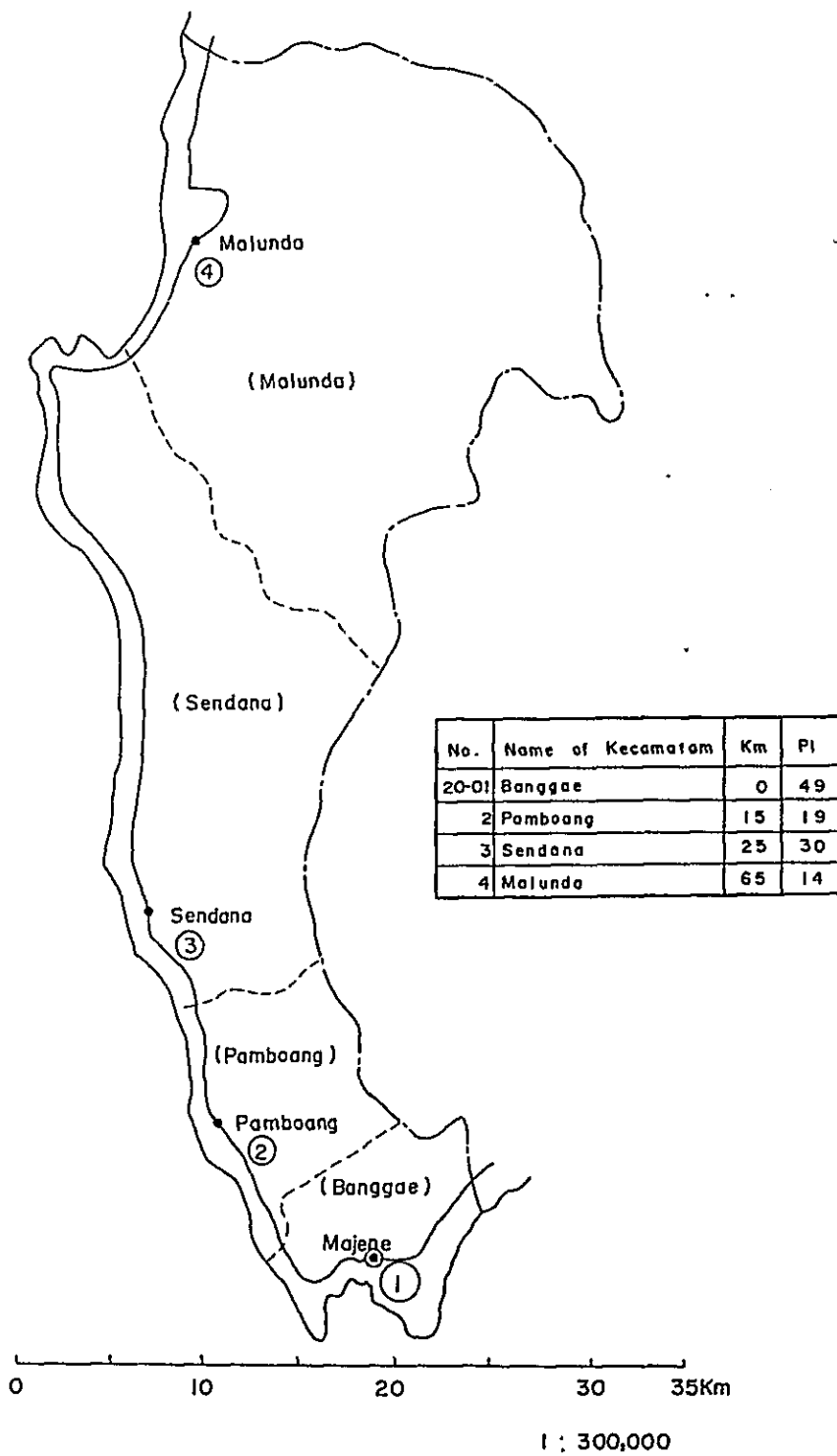


No.	Name of Kecamatan	Km	PI
19-01	Larampung	76	13
2	Suli	70	15
3	Bajo	61	34
4	Basserang Tempe	80	13
5	Bua Paurang	36	46
6	Wara	0	52
7	Walenrang	21	63
8	Sabbang	56	27
9	Limbong	116	10
10	Mosamba	64	23
11	Malangka	100	15
12	Bane - Bone	80	47
13	Wotu	127	22
14	Mangkutana	150	30
15	Malli	176	12
16	Nuha	246	21

付図IV-1-2-1 (No.17)

Kabupaten : Majene

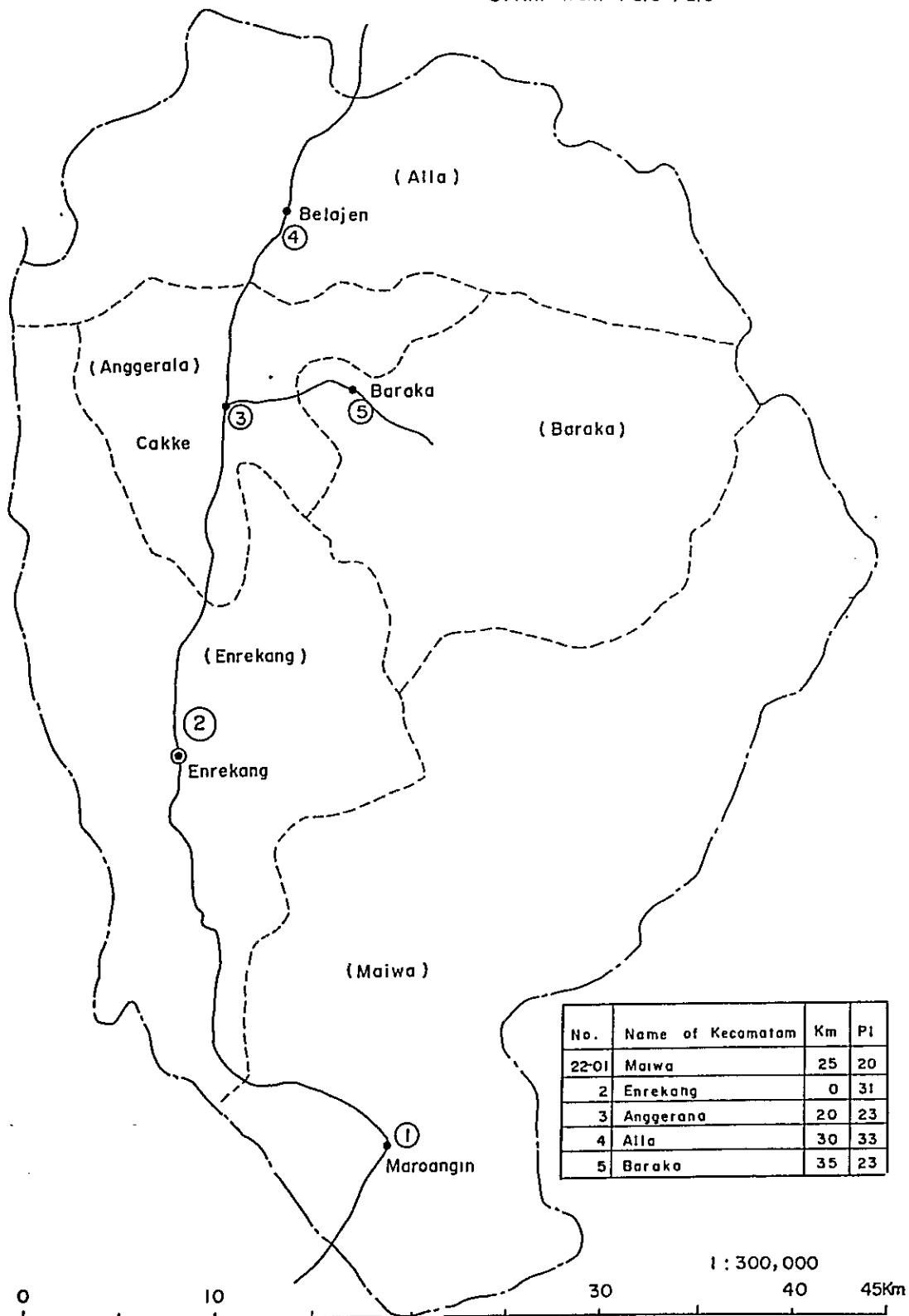
147Km from Pare-Pare



付図IV-1-2-1 (No.18)

Kabupaten : Enrekang

81 Km from Pare-Pare

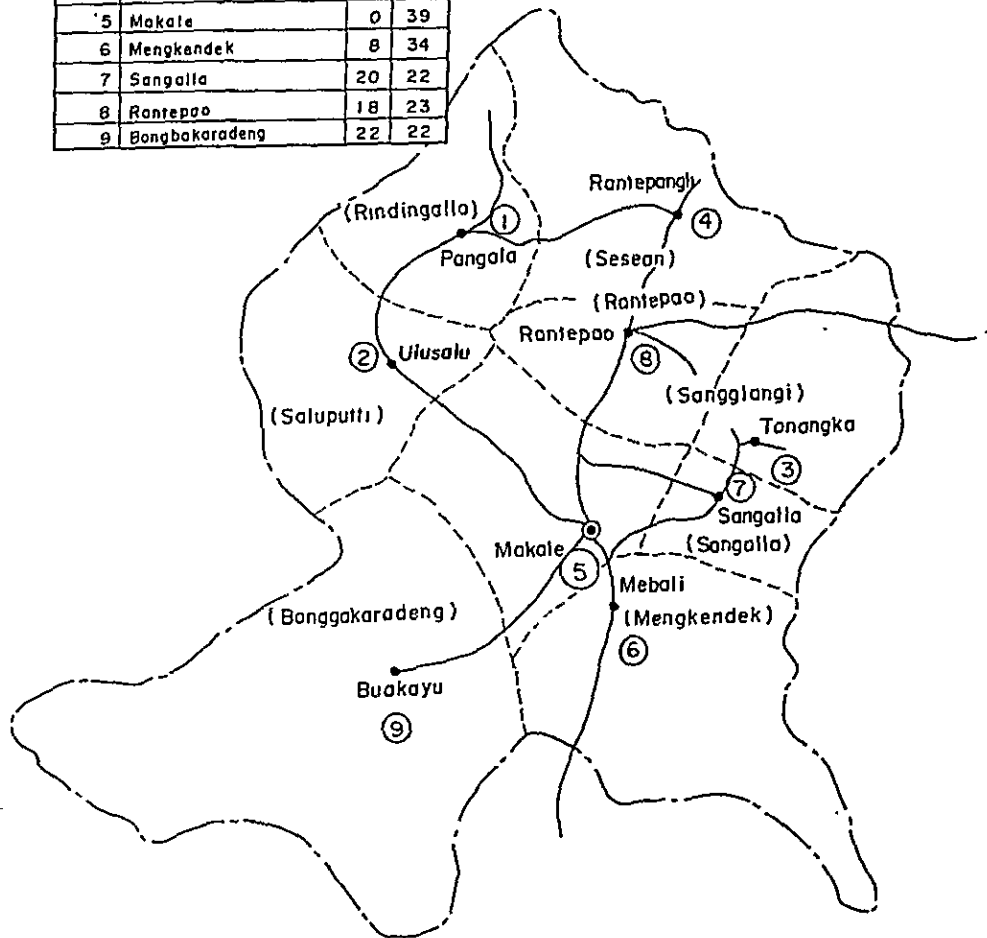


付圖IV-1-2-1 (No.19)

Kabupaten : Tana Toraja (Capital Makale)

156Km from Pare-Pare

No.	Name of Kecamatan	Km	PI
23-01	Rindingallo	48	41
2	Saluputti	24	43
3	Sanggalangi	35	53
4	Sesean	30	41
5	Makale	0	39
6	Mengkendek	8	34
7	Sangalla	20	22
8	Rantepao	18	23
9	Bongbakaradeng	22	22



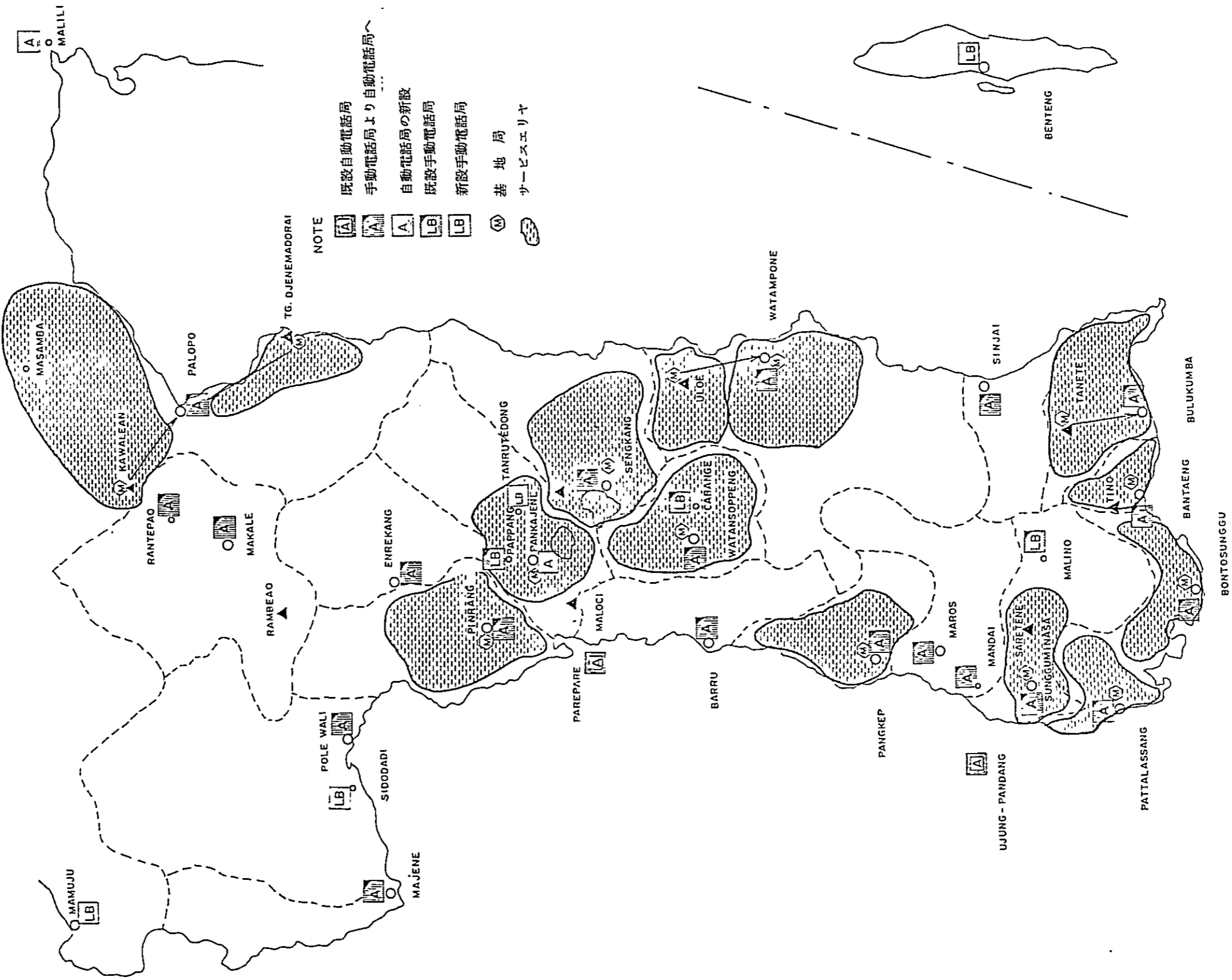
0 10 20 30 40 50 60 70 80Km

1 : 500,000

付表IV-2-2-1 電話網計画(南スラウェシ)

<u>SECONDARY EX.</u>	<u>PRIMARY EX.</u>	<u>AREA CODE</u>	<u>END OFFICE</u>	<u>SUB NUMBER</u>	
UJUNG PANDANG	Ujung Pandang	0411	Ujung Pandang-I	2xxxx	
				3xxx ~ 7xxx	
			Ujung Pandang-II	81xxx ~ 84xxx	
			Sungguminasa	(MANUAL EX)	
			Takalar	(MANUAL EX)	
	Watanpone	0412	Wantapone		(MANUAL EX)
				Bantaeng	(MANUAL EX)
					(MANUAL EX)
					(MANUAL EX)
					(MANUAL EX)
PARE-PARE	Pare Pare	0421	Pare-Pare	(MANUAL EX)	
			Barru	(MANUAL EX)	
			Watansopen	(MANUAL EX)	
			Pankajene-S	(MANUAL EX)	
			Pinrang	(MANUAL EX)	
				(MANUAL EX)	
	Polewari	0422	Polewari		(MANUAL EX)
				Majene	(MANUAL EX)
	Enrekang	0423	Enrekang		(MANUAL EX)
				Makale	(MANUAL EX)
	Palopo	0424	Palopo		(MANUAL EX)
	Senkang	0425	Senkang		(MANUAL EX)
	Mamuju	0421	Mamuju		(MANUAL EX)
	Masamba	0427	Masamba		(MANUAL EX)
	Malili	0428	Malili		(MANUAL EX)
Karossa	0429	Karossa		(MANUAL EX)	

電話局置局計画



付図IV-2-5-1 標準局舎と標準電源装置

Office Building	Power Supply Facilities								
<p>B-1 Type Building (building for medium-scale telephone office in Ibukota Kabupaten, etc.)</p> <p>6m **</p> <table border="1" data-bbox="203 436 823 750"> <tr> <td data-bbox="211 436 462 571">1 Office Head's Room Window*</td> <td data-bbox="462 436 580 571">3 Manual Switchboard</td> <td data-bbox="580 436 815 571">5 MDF Room</td> <td data-bbox="815 436 823 571">7</td> </tr> <tr> <td data-bbox="211 571 462 750">2 Office Room Maintenance Personnel Room</td> <td data-bbox="462 571 580 750">4 AUX Room</td> <td data-bbox="580 571 815 750">6 Equipment Room (Automatic Exchange & Transmission Equipment)</td> <td data-bbox="815 571 823 750">7 Power Supply Room</td> </tr> </table> <p>* 1 includes public telephone room and window for accepting telephone.</p> <p>** An area of 6 m x 6 m = 36 m² is designated one frame. (Total areas = 10 frames = 360 m²)</p>	1 Office Head's Room Window*	3 Manual Switchboard	5 MDF Room	7	2 Office Room Maintenance Personnel Room	4 AUX Room	6 Equipment Room (Automatic Exchange & Transmission Equipment)	7 Power Supply Room	<p>P-1 Type Power Supply Facilities (for B-1 office building)</p> <p>(1) Load Automatic exchange Transmission equipment MAS Airconditioner (for exchange & lighting)</p> <p>(2) Power supply facilities Diesel engine generator, 75 KVA x 2 Battery, 48V, 1230AH x 1 Rectifier, 300A x 2</p>
1 Office Head's Room Window*	3 Manual Switchboard	5 MDF Room	7						
2 Office Room Maintenance Personnel Room	4 AUX Room	6 Equipment Room (Automatic Exchange & Transmission Equipment)	7 Power Supply Room						
<p>B-2 Type Building (for small-scale telephone office in Ibukota Kecamatan, etc.)</p> <table border="1" data-bbox="211 1064 807 1243"> <tr> <td data-bbox="211 1064 352 1243">1 Office Head's Room</td> <td data-bbox="352 1064 392 1243">4 AUX ROOM</td> <td data-bbox="392 1064 462 1243">5 MDF Room</td> <td data-bbox="462 1064 564 1243">6 Equip-ment Room</td> <td data-bbox="564 1064 807 1243">7 Power Supply Room</td> </tr> </table> <p>Maintenance personnel: Unattended</p> <p>(Total area = 5 frames = 180 m²)</p>	1 Office Head's Room	4 AUX ROOM	5 MDF Room	6 Equip-ment Room	7 Power Supply Room	<p>P-2 Type Power Supply Facilities (for B-1 office building)</p> <p>(1) Load Automatic exchange Transmission equipment Airconditioner (for exchange & lighting)</p> <p>(2) Power supply facilities Diesel engine generator, 50KVA x 2 Battery, 48V, 800AH x 1 Rectifier, 200A x 2</p>			
1 Office Head's Room	4 AUX ROOM	5 MDF Room	6 Equip-ment Room	7 Power Supply Room					
<p>B-3 Type Building (for repeater station)</p> <table border="1" data-bbox="211 1590 588 1758"> <tr> <td data-bbox="211 1590 337 1758">6 Equip-ment Room</td> <td data-bbox="337 1590 588 1758">7 Power Supply Room</td> </tr> </table> <p>Maintenance personnel: Unattended</p> <p>(Total area = 3 frames = 108 m²)</p>	6 Equip-ment Room	7 Power Supply Room	<p>P-3 Type Power Supply Facilities (for B-3 office building)</p> <p>(1) Load Transmission equipment & lighting</p> <p>(2) Power supply facilities Diesel engine generator, 10KVA x 2 Battery, 48V, 210AH x 1 Rectifier, 50A x 2</p>						
6 Equip-ment Room	7 Power Supply Room								

Note: The plans of office buildings are depicted to clearly indicate required for areas and do not show standard shapes of buildings and floor layout.

付表IV-2-6-1 局所別保安要員配分表

No.	Kabupaten Kodya	Office Under Concentrative Maintenance	Exchange Maint. Personnel				Power Supply Maint. P.		Sub's Line Maint. P.		MAS (TECH)	Total		
			Director	ENG	TECH	Key St.	ENG	TECH	ENG	TECH		Director	ENG	TECH
1	Ujung Pandang		1	1	3			2	1	6	2	1	2	13
2	Gowa	Takalar Malino (Man.)				UP		UP		UP	UP			
3	Takalar					UP		UP		UP	UP			
4	Jeneponto	Jeneponto				BNT		BNT		BNT	BNT			
5	Bantaeng			2	4			2		5	2		2	13
6	Bulukumba	Bulukumba				BNT		BNT		BNT	BNT			
7	Sinjai	Sinjai				BNT		BNT		BNT	BNT			
8	Selayar	(Man.)			2			-		2	-			4
9	Pare Pare		1	1	3				1	6	2	1	2	11
10	Maros	Mandai				UP		UP		UP	-			
11	Pangkep					UP		UP		UP	UP			
12	Barro					PRE		PRE		PRE	PRE			
13	Pinrang					PRE		PRE		PRE	PRE			
14	Sidrap	Rappang (Man.) Tanrutedong (Man.)				PRE		PRE		PRE	PRE			
15	Soppeng	Cabenge (Man.)				SKG		SKG		SKG	SKG			
16	Bone			1	2			1		3	1		1	7
17	Wajo			1	2			2		3	2		1	9
18	Polmas	Sidodadi (Man.)		1	2			1		2			1	5
19	Luwu	Malili		1	4			2		4	1		1	11
20	Majene					Pol		Pol		-	-			
21	Mamuju				2			-		2	-			4
22	Enreleang			1	2			1		2	-		1	5
23	Tana Toraja	Rantepao		1	2			1		2	-		1	5
Total			2	10	28			12	2	37	10	2	12	87

現在の下級職員(表中, 職員に相当) 52

付表IV-2-6-2 伝送路設備に対する保守要員のわりあて表

No.	Kotamadya or Kabupaten	No. of Offices with Communication Facilities				Office in Charge of Maintenance	Maintenance Personnel			
		6GHz 800MHz	MAS	PCM-30	Existing COX & μ		No. of Director	No. of Engineer	No. of Technician	Location of Resident Office
1	Ujung Pandang	1	1	1	1	U.P.	1	2	6	U.P.
2	Gowa		1	1		U.P.				
3	Takalar	1	1			U.P.				
4	Jeneponto	1	1			Bantaeng				
5	Bantaeng	1	1		1	Bantaeng		1	3	BNT
6	Bulukumba	1(1)	(1)			Bantaeng			3	BLK
7	Sinjai	1				Bantaeng			2	SIN
8	Selayar	VHF 1				Bantaeng			2	Benteng
9	Pare-Pare	1(2)		1	1	Pare Pare	1	2	7	PRE
10	Maros				1	U.P.				
11	Pangkep		1		1	U.P.				
12	Barru				1	Pare Pare				
13	Pinrang		1	1		Pare Pare				
14	Sidrap	1	1			Pare Pare				
15	Soppeng	1	1			Sengkang				
16	Bone	1(1)	1(1)			Wantanpone		1	3	WTP
17	Wajo	1	1			Sengkang		1	2	SKG
18	Polmas	1				Pare Pare			2	PLW
19	Luwu	1(1)	(2)			Palopo		1	6	PLP
20	Majene	1				Pare Pare			2	MAJ
21	Mamuju					Pare Pare				
22	Enreleang	1		2(1)		Pare Pare			2	ENR
23	Tana Toraja					Pare Pare			3	MKL
	Total	15(5) VHF 1	10(4)	6(1)	6		2	8	43	

* 無駐在局

7. 参考資料

7-1 北スマトラ編

- (1) 現地収集資料リスト
- (2) 北スマトラ地方電話局一覧表
- (3) 既設電話回線網図
- (4) 北スマトラ・郡・一覧

付表 V-7-1-1 収集データのリスト

[Statistic Data]

No.	Name of Data	Remarks
S-1	STATISTICAL YEAR BOOK, NORTH SUMATERA FIGURES, 1978	
S-2	STATISTICAL YEAR BOOK, DELI SERDANG, 1978	
S-3	DATA-DATA PENDUDUK KOTAMADYA, MEDAN AKHIR, 1976	
S-4	STATISTICAL YEAR BOOK, KOTAMADYA TEBING TINGGI, 1978	
S-5	QUESTIONNAIRE, KECAMATAN RAMBUTAN, KOTAMADYA T.T., 1980	
S-6	QUESTIONNAIRE, KECAMATAN PADANG HILIR, KOTAMADYA T.T., 1979	
S-7	QUESTIONNAIRE, KECAMATAN PADANG HULU, KOTAMADYA T.T., 1979	
S-8	QUESTIONNAIRE, ASAHAN, 1971 ~ 1979	
S-9	BIG PLANTATION IN ASAHAN	
S-10	DAFTAR LUNAS AREAL DAN PRODUCKSI TAN. KARET DAN KELAPA (PERKEBUNAN RAKYAT), ASAHAN, 1970 ~ 1979	
S-11	REKAP DATI II SIMALUNGUN, 1976	
S-12	STATISTICAL YEAR BOOK, KOTAMADYA P. SIANTAR, 1978	
S-13	QUESTIONNAIRE, KARO	
S-14	STATISTIC DATA, KECAMATAN JUHAR, KARO, 1979	
S-15	STATISTICAL YEAR BOOK, LANGKAT, 1977	
S-16	STATISTICAL YEAR BOOK, KOTAMADYA BINJAI, 1979	
S-17	LAMPIRAN DATA, BADAN PENGUSAHAAN PELABUHAN, BELAWAN, 1978	
S-18	LAMPIRAN DATA, BADAN PENGUSAHAAN PELABUHAN, BELAWAN, 1979	
S-19	THE PORT OF BELAWAN	

(Continued)

No.	Name of Data	Remarks
S-20	PTP VI IN BRIEF	
S-21	PTP VI (PERSERO)	
S-22	PNP VI, A PROFILE OF A GROWING COMPANY	
S-23	LAPONAN TAHUNAN 1978, PERUMTEL (YEAR 1978 REPORT, PERUMTEL)	
S-24	DATA STATISTIK TELEKOMUNIKASI WILAYAH USAHA TELEKOMUNIKASI-I, SUMUT/ACEH, 1978	
S-25	BUKU STATISTIC TAHUNAN, SUMATERA UTARA, 1973	
S-26	BUKU STATISTIC TAHUNAN, SUMATERA UTARA, 1974	
S-27	BUKU STATISTIC TAHUNAN, SUMATERA UTARA, 1975	
S-28	BUKU STATISTIC TAHUNAN, SUMATERA UTARA, 1976	
S-29	BUKU STATISTIC TAHUNAN, SUMATERA UTARA, 1977	
S-30	PTP-VIII, 1978	
S-31	INFORMATION COLLECTED FROM PTP VIII	
S-32	PERKIRAAN PENDAPATAN REGIONAL, PROVINSI SUMATERA UTARA 1971 ~ 1978, BAPPEDA-S. U. (Calculation of Regional Income, Province of North Sumatra)	
S-33	TRANSPORT & COMMUNICATION STATISTICS, 1978 VEHICLES AND LENGTH OF ROAD STATISTICS	
S-34	COMMUNICATION STATISTIC POST & TELECOMMUNICATION STATISTIC, 1978	
S-35	POPULATION OF SUMATERA UTARA, 1971	

[Development Plans]

No.	Name of Development Plan	Remarks
D-1	REPELITA III, KABUPATEN DAERAH TK II, DELI SERDANG -VOLUME I- 1979/80-1983/84	
D-2	REPELITA III, KABUPATEN DAERAH TK II, DELI SERDANG -VOLUME II-1979/80-1983/84	
D-3	REPELITA III, KABUPATEN DAERAH TK II, DELI SERDANG -VOLUME III-1979/80-1983/84	
D-4	REPELITA III, DAERAH TK II KOTAMADYA MEDAN -BUKU I-UHUM 1979/80-1983/84	
D-5	REPELITA III, DAERAH TK II KOTAMADYA MEDAN -BUKU II-SEKTORAL	
D-6	REPELITA III, DAERAH TK II KOTAMADYA MEDAN -BUKU III-PEMBANGUNAN WILAYAH	
D-7	MASTER PLAN KOTAMADYA MEDAN, 1974	
D-8	REPELITA III, KOTAMADYA DAERAH TK-II, TANJUNG BALAI 1979/80-1983/84	
D-9	POLA DASAR PEMBANGUNAN MAJU, KABUPATEN KARO, 1974	
D-10	REPELITA III, DAERAH TK-II KABUPATEN LANGKAT 1979/80-1983/84	
D-11	PRELIMINARY STUDY REPORT ON INDUSTRIAL DEVELOPMENT POTENTIAL IN THE ASAHAN AREA AND ITS VICINITY, 1980, ECFA	
D-12	EXPANSION PROGRAM: LOCAL CENTRAL EXTENSION PERUMTEL SLJJ CENTRAL EXTENSION CENTRAL TELEX EXTENSION TRANSMISSION EXPANSION PROGRAM	
D-13	REVISED PROGRAM REPELITA III, TELEPHONE PROGRAM	

[Maps]

No.	Name of Map	Remarks
M-1	PETA DAERAH TK II KABUPATEN DELI SERDANG 1:125000	
M-2	KOTAMADYA MEDAN 1:50000	
M-3	KOTAMADYA MEDAN	
M-4	KOTAMADYA TEBING TINGGI 1:10000	
M-5	PETA ICHTISAR PERKUBUNAN, SUMATERA TIMUR 1:500000	
M-6	KABUPATEN ASAHAN 1:100000	
M-7	KABUPATEN ASAHAN 1:200000	
M-8	PETA RENCANA PERLUASAN KOTAMADYA TG. BALAI 1:25000	
M-9	KABUPATEN SIMALUNGUN 1:100000	
M-10	KOTAMADYA PEMATANG SIANTAR 1:10000	
M-11	KECAMATAN TANAH JAWA, KAB. SIMALUNGUN 1:50000	
M-12	KABUPATEN KARO 1:100000	
M-13	KECAMATAN JUHAR, KAB. KARO 1:25000	
M-14	KECAMATAN MUNTE, KAB. KARO 1:25000	
M-15	KOTAMADYA BINJAI 1:10000	
M-16	KABUPATEN LANGKAT 1:100000	
M-17	PTP-VIII TEA ESTATES 1:200000	

[Others], .

No.	Name of Material	Remarks
O-1	TRAFFIC 1978-1979, PERUMTEL	
O-2	INDONESIAN TELECOMMUNICATION DEVELOPMENT, Second Edition PERUMTEL	
O-3	BUDGET, KANDATPON P. SIANTAR, PERUMTEL 1980	
O-4	NUMBER OF PERSONNEL, KANDATPON P. SIANTAR, PERUMTEL 1980	
O-5	SYSTEM UTILISATION IN TRANS SUMATRA MICROWAVE SYSTEM ATM	
O-6	SKSD FREQUENCY PLAN	
O-7	CIRCUIT REQUIREMENT FOR SPUR ROUTE, PERUMTEL, WITEL-1	
O-8	RADIO FREQUENCY CHANNEL ARRANGEMENT FOR TRANS SUMATERA MICROWAVE SYSTEM, PERUMTEL	
O-9	PEMILIHAN LOKASI "LANDING POINT" DAN "CABLE STATION" UNTUK SKKL MEDAN-PENANG (MENANG) DI PANTAI CERMIN PERUMTEL, PRANTRA	
O-11	PROJECT AID REQUEST FOR ESTABLISHMENT OF REMOTE AREA TELECOMMUNICATION NETWORK PROJECT PHASE I, DEPARTMENT OF TRANSPORTATION, COMMUNICATION & TOURISM	Partial Copy
O-12	MEMORI PENJELASAN LAPORAN STATUS DAN KEMAJUAN KEGIATAN PERENCANAAN TRANSMISI-TERRESTRIAL TAHUN 1979 DAN RENCANA-KERJA TAHUN 1980, PRANTRA, PERUMTEL	Partial Copy
O-13	TRAFFIC FLOW PLAN FOR YEAR 1992. TERTIARY NETWORK ATM	

(Continued)

No.	Name of Material	Remarks
O-14	FORMAT: NOTA GANGGUAN SENTRAL NOTA-GANGGUAN-LANGGANAN	
O-15	REGIONAL NETWORK PLANNING, TERTIARY AREA, CIRCUIT REQUIREMENTS, ATM	
O-16	REGIONAL NETWORK PLANNING, SECONDARY AREA, CIRCUIT REQUIREMENTS, ATM	
O-17	TRAFFIC FLOW PLAN FOR YEAR 1992. MEDAN TERTIARY, ATM	
O-18	TRAFFIC FLOW PLAN FOR YEAR 1992. MEDAN SECONDARY, ATM	
O-19	TRAFFIC FLOW PLAN FOR YEAR 1992. LANGSA SECONDARY, ATM	
O-20	MEDAN II ARF 102 INSTALLED TRUNKING DIAGRAM, ATM	
O-21	MEDAN EXCHANGE ARF 201 INSTALLED TRUNKING DIAGRAM, ATM	
O-22	ARF EXCHANGE, MEDAN II, KAN RELAY SET RECTIFIER COMMUNICATION, ATM	
O-23	MEDAN II ARF EXCHANGE CODE OUTLINE, 1/2, ATM	
O-24	MEDAN II ARF EXCHANGE CODE OUTLINE, 2/2, ATM	
O-25	TRAFFIC DATA EQUIPMENT EXCHANGE MEDAN TKT GROUP APPROPRIATION, 1/4, ATM	
O-26	TRAFFIC DATA EQUIPMENT EXCHANGE MEDAN TKT GROUP APPROPRIATION, 2/4, ATM	
O-27	STRUKTUR ORGANISASI PERUM TELEKOMUNIKASI KANTOR WITEL-I MEDAN	
O-28	NAMA-NAMA PEGAWAI YANG AKTIF DI KANTOR WITEL I MEDAN MENURUT KEADAAN 1 JULY, 1980	

(Continued)

No.	Name of Material	Remarks
O-29	JUMLAH KARYAWAN/KARYAWATI WITEL I SUMUT/ACEH KEADAAN 1 JUNI, 1980	
O-30	TRAFFIC, DALAM ANGKA 1977-1978, PERUMTEL	
O-31	FUNDAMENTAL PLAN 1972 FOR THE TELEPHONE NETWORK IN INDONESIA, PERUMTEL	
O-32	BUKU TARIF JASA TELECOMMUNIKASI, 1979	
O-33	PERINCIAN BIAYA PEMASANGAN JARINGAN KABEL TELEPON DI LOKAS MEDAN	
O-34	PERINCIAN BIAYA PEMASANGAN JARINGAN KABEL TELEPON DI PADAN	
O-35	PEDOMAN HARGA PEMBANGUNAN PERMAHAN DINAS STANDARD BAPPENAS 1979/80	
O-36	STANDARDISASI PEMBANGUNAN PERUMAHAN DINAS DAN GUDUNG KANTOR PEMENTAH, 1979/1980, BPPN DAN DEPART. KEUANGAN	
O-37	RADIO TELEPHONE NETWORK OF .P. T. PERKUBUNAN VIII	
O-38	NETWORK OF PRIMARY CABLE EXTENSION PLAN, MEDAN, 1974 NKF	
O-39	PETA DASAR UNTUK JARING KABEL, MEDAN, ATM	
O-40	SYMBOLS FOR DRAWING OF CABLE NETWORK PERUMTEL	
O-41	PETA DASAR UNTUK JARING KABEL, MEDAN, BICC	
O-42	TELECOMMUNICATION FACILITIES, KOMANDO DAERAH KEPOLISITAN II, SUMATERA UTARA	

(Continued)

No.	Name of Material	Remarks
O-43	INTERNATIONAL, INTERLOCAL AND MINUTES & PULSES 1974 ~ 1977 PERUMTEL	
O-44	FORECAST REVENUE PER LINE UNIT PER ANNUM, PERUMTEL	
O-45	SAMBUNGAN TELEPON JARAK JAUH (LONG DISTANCE TELEPHONE CONNECTION, PT. INTI)	

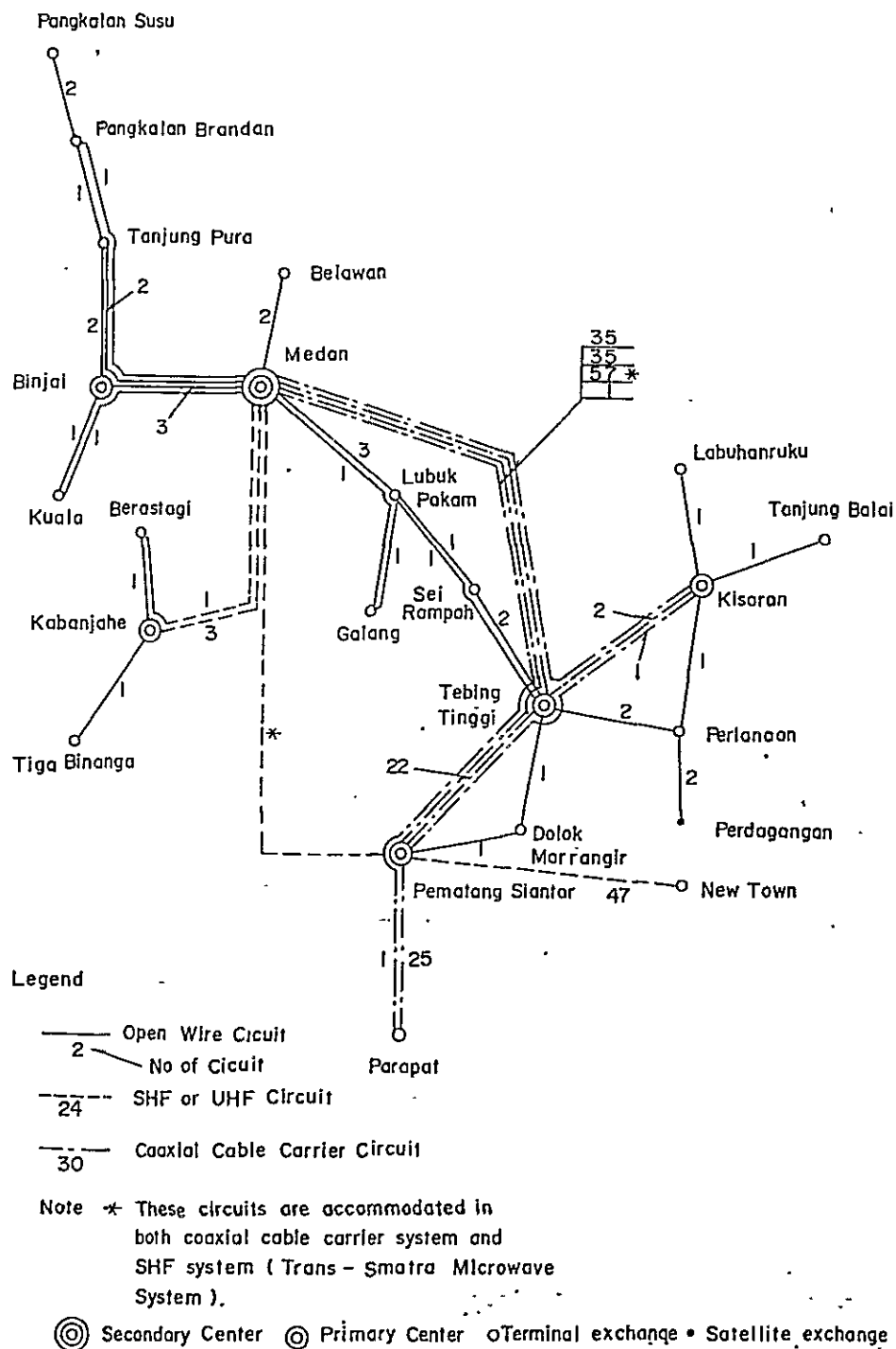
附表 V-7-1-2 北スマトラ地方電話局一覽

1 : () Office out of the area to be surveyed.
 2 : (/) Plan in fundamental plan (1972)
 3 : Office ranks are from the examination of the current condition.

No.	Exchange Name	Office Class	Kabu-paten	Office Grade	Office Area Code	Sub's No.	Exchange			Average Income per Month (in Rp.)	Total No. of Personnel	Personnel			MDF Capacity	No. of Lead-in Cable Pairs			
							Type	No. of L.D.	No. of Subs.			No. of Wait Appl.	(Oper.)	(Tech)			(Tele-gram)	(Per-sennel Admin.)	
1	Kabanjahe	TC	KARO	VI	628	1-250	400	250	Div. Area 5 million					250	50 x 5				
2	Berastage	EO	KARO	VI	((628))	1-145	200	145	Total: 1-1.4 million Phone: 400~670 thousand	11	4	5	1	200	50 x 4				
3	Tigabinanga	EO	KARO		((628))	1-13	50	13		7	3	3	-	40	40 x 1				
-	(Blangkejayan)	TC			642														
-	(Kutabane)	TC			629														
-	(Pangururan)	TC			626														
-	(Sidikalang)	TC			627														
-	(Langsa)	TC			641														
4	P.K. Brandan	EO	Langk	VII	((620))		150	115	Total: 1 million Cash: 625 thousand	14	4	9	-	100	100 x 1				
5	P.K. Susu	EO	Langk		((620))		50	18	(Coin: 1 thousand 6 thousand)	7	3	2	-	50	50 x 1				
-	(Peureula)	TC			638														
-	(Idi)	TC			646														
-	(Kualasimpang)	EO			?														
6	Binjai	TC	Langk	VI	620	1-11	1,000	250		31	9	Ex: 3 Line: 10	2	1,200	300 x 2 200 x 2 100 x 2				
7	Kuala	EO	Langk		((620))	1-24	30	24	18 SUB 130,000	7	3	3	-						
8	Tanjungpura	EO			((620))	1-97	200	97		10	3	6	-	130	120 x 1 10 x 1				
9	Medan	DC	Deli	II	61	2xxxx	UR(sxs)	10,000	8,000						14,000				
						32xxxx	ARF(XB)	7,000	6,000	4,530					9,600	1800 x 3 1200 x 2			
						51xxxx	MC(SPC)	10,000	2,500									13,000	
						52xxxx	MC(SPC)	10,000							10				
							M board												
					Silxx		GENTEX	500											
					S15xx		GENTEX	500											
					S16xx, 313		GENTEX	500											
					S10xx, 318														
10	Belawan	EO	Deli	VI	((61))									360	100 x 3 60 x 1				

付表V-7-1-2 北スマトラ地方電話局一覽

Exchange Name	Office Class	Kabatan	Office Grade	Area Code	Sub's No.	Exchange			Average Income per Month (in Rp.)	Personnel				MDF Capacity	No. of Lead-in Cable Pairs	
						Type	No. of L. U. Subs.	No. of Wait Appl.		Total No. of Personnel	(Op.)	(Tech.)	(Tele-gram)			(Personnel Admin.)
11 Galang	EQ	Deli		((61))	1-38	M-L.B.	50	38	1	400,000	8	3	4	-	-	-
12 Lubukpakam	EQ	Deli	VI	((61))	1-169	M-L.B.	200	169	25	-	15	7	7	-	200	80 x 1 40 x 3
13 Seirampah	EO	Deli		((62))	1-32	M-L.B.	60	32	-	-	5	3	1	-	45	50 x 1
14 Tebingtinggi	TC	Deli	V	621	21xxx 1-6	A-P.C. M-boards	1,000	517	200	-	27	17	Ex:3 Tx:2 Op:2	-	1,300	1,200 x 1 100 x 1
15 Perdagangan	SO	Sima		((62))	1-80	M-L.B.	100	80	-	-	13	5	7	-	100	100 x 1
16 Perlannan	EQ	Sima		((62))	1-12	M-L.B.	60	12	-	-	7	3	2	1	60	60 x 1
17 Dolokrangir	EO	Sima		((62))	1-43	M-C.B.	50	43	50	-	7	3	2	1	60	60 x 1
18 Pematang Siantar	TC	Sima	IV	622		A-P.C. M-board	4,000	3,000	214	-	-	-	-	-	5,800	1,200 x 4 400 x 1 300 x 1 200 x 1
19 Parapat	EO	Sima	VII	622	41xxx	A-P.C.	1,000	87	30	2,000,000	13	3	L: 2 Ex:2 Tx:3 Op:2	-	400	400 x 1
20 Newtown	EO	Asah		((62))	622	A-NC230	1,000	104	-	-	10	L: 2 Ex:2	Other:3 Tx:1	-	800	400 x 2
21 Kisaran	TC	Asah	VI	623	1-30	A-P.C. M-boards	1,000	300	300	-	46	17	L:17 Ex:4 Op:1 Tx:3	-	600	400 x 1 200 x 1
22 Labuhanruku	EO	Asah		((62))	1-25	M-L.B.	50	25	-	-	6	3	2	-	50	50 x 1
23 T.G. Balli	EO	Asah	VI	((62))	1-460	M-C.B.	800	460	500	-	15	9	3	2	400	200 x 2
24 Pulauakkyat		Asah		((62))	-	-	-	-	-	-	-	-	-	-	-	-



付図 V-7-1-3 北スマトラ既設電話網図

付表V-7-1-4 北スマトラ・郡・一覧

<u>Kecamatan</u>	<u>Ibukota</u>	<u>Area in km²</u>	<u>Population in 1971</u>
1 Deli Serdang			
1 Hamperan Perak	Hamperan Perak	400	76183
2 Labuhan Deli	Labuhan Deli	261.78	157761
3 Sunggal	Sunggal	172.97	137818
4 Delitua	Delitua	30	37139
5 Patumbak	Patumbak	78	37139
6 Percut Sui Tuan	Tembung	158.40	159861
7 Biru-Biru	Biru-Biru	80	14397
8 Kuta Limbaru	Kuta Limbaru	480	16829
9 Namorambai	Namorambai	67.56	8840
10 Pancur Batu	Pancur Batu	400	31325
11 Sibolangit	Sibolangit	300	12159
12 Galang	Galang	160.57	55505
13 Batan Kuwis	Batan Kuwis	42	17136
14 Pantai Cermin	Pantai Cermin	150	21281
15 Tanjung Merawa	Tanjung Merawa	300	60128
16 Lubuk Pakam	Lubuk Pakam	510	113405
17 Perbaungan	Perbaungan	288	72840
18 Gunung Emriah	Gunung Meriah	120	2452
19 Kota Rih	Kota Rih	100	15211
20 Bangun Purba	Bangun Purba	1329	21651
21 Senembah Tanjung Mude Hilir	Talun Kenas	210	15722
22 Senebah Tanjung Mude Hulu	Tiga Juhar	350	4514
23 Dolok Merawan	Dolok Merawan	93	19067
24 Bandar Khalipah	Bandar Khalipah	116	20547
25 Sipispis	Sipispis	220	29167
26 Tebing Tinggi	Tebing Tinggi	326	100719
27 Sei Rampah	Ferdaus	570.14	80289
28 Siming Beringen	Tanjung Beringen	63	23214
29 Dolok Masihul	Dolok Masihul	130.27	43331
30 Teleuk Mengkubu	Sialang Buah	91	23810

付表V-7-1-4 北スマトラ・郡・一覧

	<u>Kecamatan</u>	<u>Ibukota</u>	<u>Area in km²</u>	<u>Population in 1971</u>
2	Karo			
1	Kabanjahe	Kabanjahe	68.67	42333
2	Payung	Tigaderket	140.14	18554
3	Simpang Empat	Simpang Empat	20.5	20437
4	Barusjahe	Barusjahe	120.8	12324
5	Tigapanah	Tigapanah	200.88	23503
6	Tigabinanga	Tigabinanga	160.2	12971
7	Mardinding	Laubaleng	582.13	7675
8	Munthe	Munthe	122	13207
9	Juhar	Juhar	204.13	13201
10	Kota Buluh	Kota Buluh	167.30	79751
3	Langkat			
1	Gebang	Gebang	1541	21105
2	Bestitang	Bestitang	923	13547
3	Pangkalan Susu	Pangkalan Susu	324.9	22946
4	Babalan	Pangkalan Brandan	497	60299
5	Stabat	Stabat	238	62596
6	Padang Tualang	Tanjung Selamat	1180	54150
7	Hinai	Tanjung Beringen	86	21022
8	Sicangang	Hinai Kiri	322	40824
9	Tanjung Pura	Tanjung Pura	154	30992
10	Sei Bingei	Sei Bingei	229.50	24679
11	Binjai	Binjai	103	46998
12	Salapian	Salapina	483	32551
13	Kuala	Kuala	168.8	31416
14	Selesai	Selesai	175	32367
15	Bohorok	Bohorok	933	23972
4	Simalungun			
1	Siantar	Pematang Siantar	497.05	110602
2	Jorlang Hataran	Tiga Balata	20	14208
3	Sidamanik	Sarimatondang	1292	39942
4	Dolok Pardamean	Sipintu Angin	119	8851
5	Raya	Pematang Raya	36	21997

付表V-7-1-4 北スマトラ・郡・一覧

<u>Kecamatan</u>	<u>Ibukota</u>	<u>Area in km²</u>	<u>Population in 1971</u>
6 Panei	Panei Tonga	15.15	32225
7 Silimakuta	Saribudolok	158.30	11831
8 Dolok Silau	Saranpadang	185	15353
9 Purba	Tigarunggu	187.78	15353
10 Simpang Bolon	Parapat	166	7723
11 Basar Maligas	Pasar Baru	72.5	74250
12 Dolok Pariduan	Tiga Dolok	187.40	18612
13 Tanah Jawa	Tanah Jawa Pematang	59	10396
14 Raya Kahen	Sindarraya	114.08	11237
15 Silau Kahen	Negeri Dolok	245.50	11745
16 Dolok Batu	Serberawan	26	56857
17 Bandar Nyanggar	Perdaganggang	422	113526
5. Asahan			
1 Sungai Kupayang	Sungai Kupayang	499	28483
2 Air Joman	Air Joman		29908
3 Simpan Empat	Simpan Empat		22090
4 Kisaran	Kisaran	329, 33	100528
5 Air Batu	Air Batu	193.80	44612
6 Butu Pane	Sugai Silau	435.5	37733
7 Pulau Rakyat	Pulau Rakyat	451.70	42317
8 Bandar Pulau	Bandar Pulau	736.50	26040
9 Badar Pasir Mandugo	Bandar Pasir Mandugo	651	4716
10 Talawi	Labuhan. Ruku		28288
11 Lima Puluh	Lima Puluh		56948
12 Tanjung Tiram	Tanjung Tiram		55441
13 Air Putih	Indra Pula		47142
14 Medang Deras	Pangkaran Dodek		23241
15 Tanjung Balai	Tanjung Balai	134	46096

付表V-7-2-1 収集資料(南スラウェシ)

1. Kabupaten and Kecamatan Data

<u>Kabupaten/Kecamatan</u>	<u>Data</u>
(1) Gowa	Gowa in Figures in 1978
(2) Takalar	Takalar in Figures in 1978 (copy)
(3) Jeneponto	Statistical Data and Maps (copy)
(4) Banteng	Kabupaten Banteng Fact and Explanation (A), (B) and (C) (copy)
(5) Bulukumba	Regional General Data (type)
(6) Sinjai	Sinjai in Figures in 1978 (copy)
(7) Maros	Maros city Planning
(8) Pangkajene-P	Pangkajene and Island in Figures in 1977
(9) Barru	Kabupaten Barru Second Regional Area in Figures in 1977
(10) Pinrang	Kabupaten Pinrang in Figures in 1978
(11) Sindereng Rappang	Sindereng Rappang in Figures in 1978 (copy)
(12) Watansoppeng	Kabupaten Soppeng in Figures in 1979 (copy)
(13) Bone	Kabupaten Bone in Figures in 1977 (copy)
(14) Wajo	Kabupaten Wajo Second Regional Area in Figures in 1977
(15) Polewali-Mamasa	Monography in 1977 (copy)
(16) Luwa	Kabupaten Luwa in Figures in 1978
(17) Majene	Majene in Figures 1978/1979
(18) Enrekang	Kabupaten Enrekang in Figures in 1978 (copy)
(19) Tana-Toraja	Kabupaten Tana Toraja in Figures in 1979 (copy)
(20) Pare-Pare	Kotamadya Datill Pare-Pare in Figures in 1978
(21) Ujung Pandang	Data Potensi Ujung Pandang city in 1975

2. Maps

<u>No.</u>	<u>Data</u>
(1)	Atlas Indonesia - Buku Pertama Umum
(2)	City Maps (Kawitel X) Barru, Sungguminasa, Rappang, Palopo, Polewali, Enrekang, Watansoppeng, Cabenge, Prinrang, Sengkang
(3)	Cable Route Maps (Kawitel X) Sungguminasa, Enrekang, Watanpone, Palopo, Rantepao, Sinjai, Majene

3. Others

<u>No.</u>	<u>Data</u>
(1)	Telecommunication Statistis 1979 (WITEL-X Ujung Pandang)
(2)	List of Stations: Transmission Terrestrial Situation Juli 1978 PERUM TELEKOMUNIKASI (copy)
(3)	SW Frequency Planning for Toll Connection Link SKSD (copy)
(4)	CONTRACT NO.4/II/D/POSTEL/07-75 FOR THE SUPPLY, DELIVERY AND INSTALLATION OF THE EASTERN MICROWAVE SYSTEM
(5)	Site Survey Report on Long Distance Communication System in Central and South Sulawesi January, 1974 (copy)
(6)	CONTRACT NO.21/PEM/TRA/75 Between PERUSAHAAN UMUM TELEKOMUNIKASI BANDUNG, INDONESIA AND CIT-ALCATEL LES CABLES OF LYON AND THOMSON-C. S. F FRANCE AMENDMENT NO.1 (copy)
(7)	BUKU TARIF JASA TELEKOMUNIKASI Peraturan Operasi and Teknik Telekommunikasi No.4/1979
(8)	PROCEDURE Penilaian Kembali and Pengusutan AKTIVA TERAP P.N Telekomunikasi

(Continued)

<u>No.</u>	<u>Data</u>
(9)	LAPORAN TAHUN 1978 -Perusahaan Umum Telekomunikasi-
(10)	Organization Chart of KANTOR WITEL-X
(11)	Revised REPRITA-III Program (copy)
(12)	Traffic Flow Plan for Year 1992 (ATM Report)
(13)	No. of Subscribers and Waiting Applicant of Each Telephone Exchange Offices in South Sulawesi (WITEL-X)
(14)	Trunking Diagram of U.P I and II (U.P Ex)
(15)	No. of Subscribers by year: Telephone, Telgraph and Telex (U.P Ex)
(16)	Dafter Aluran Multiplex and O.W Carrier Setastion Transmissi Ujing Pandang at 1-January-1980
(17)	PROJECT AID REQUEST 1980 Department of Transportation, Communication & Tourism Directorate General of Post & Telecommunications, Republic of Indonesia

付表V-7-2-2 既設電話局一覽(1) (南スラウェシ)

Aug. 1980

Telephone Exchange Office	Item	Exchange				Number of Subscribers	Number of Subscribers
		Type, Maker	Equipped L. U.	Used L. U.	Installation Year		
①			②			③	④
1	Ujung Pandang	I HKS-442 (S.E.L.)	8,200	7,445	1954	7,445	1,800
		II P.C	4,000	-	1980		
2	Sungguminasa	ABK-200 (Ericsson)	140	130	-	132	10
3	Takalar	ABK-100 (do.)	80	43	-	39	28
4	Jeneponto	ABK-100 (do.)	100	65	-	61	15
5	Banteng	ABK-100x2 (do.)	200	182	-	153	28
6	Bulukumba	ABK-200 (do.)	170	129	-	128	8
7	Sinjai	ABK-100 (do.)	100	71	-	71	35
8	Watanpone	ABK-200x2 (do.)	330	312	-	304	60
9	Maros	ABK-200 (do.)	150	138	1978	135	30
10	Mandai	ABH-50 (do.)	50	27	-	24	0
11	Malino	ABH-50 (do.)	50	30	-	29	18
12	Pare-Pare	ADK-513 (do.)	800	800	1967	800	205
13	Pangkajene Sidenreng	ABK-200 (do.)	130	102	-	96	40
14	Sengkang	ABK-200 (do.)	170	155	-	151	18
15	Watansoppeng	ABK-200 (do.)	170	118	1959	115	41
16	Cabenge	ABH-50 (do.)	50	12	-	12	0
17	Barru	ABH-50 (do.)	50	50	-	49	15
18	Pangkajene	ABK-100x2 (do.)	190	151	-	148	0
19	Rappang	ABH-50 (do.)	50	48	1977	46	13
20	Pinrang	ABK-50 (do.)	150	114	1972	111	36
21	Enrekang	ABK-50 (do.)	50	38	1972	37	18
22	Polewali	ABK-200 (do.)	110	87	-	87	23
23	Majene	ABK-100 (do.)	100	79	-	78	10
24	Makale	ABK-100 (do.)	100	71	1978	70	25
25	Rantepao	ABK-100 (do.)	100	84	-	84	38
26	Palopo	ABK-200 (do.)	200	188	1968	187	18
			3790				

付表V-7-2-2 既設電話局一覧(2) (南スラウェシ)

Telephone Exchange Office	Item	Number of Telephone Sets	Number of Public Telephone Sets	Average Income per (Month Subscriber) (Rp.)	Average Traffic (Call) per Day	
					Originating	Incoming
		⑤	⑥	⑦	⑧	
1 Ujung Pandang	I	10,676	4	TLP-38,101	Operator Call	Operator Call
	II			TLG(Total) 29,345,963	510.1	477.6
2	Sungguminasa	141	1	3,788	57.5	40.0
3	Takalar	39	1	10,256	9.2	8.8
4	Jeneponto	65	1	6,676	9.3	12.0
5	Banteng	169	1	5,092	29.7	24.2
6	Bulukumba	136	1	6,301	10.7	10.3
7	Sinjai	75	1	5,525	10.8	10.9
8	Watanpone	332	1	3,145	22.3	29.6
9	Maros	148	1	3,507	36.9	25.6
10	Mandai	27	1	47,880	74.9	25.9
11	Malino	30	1	4,442	3.8	5.4
12	Pare-Pare	914	2	9,770	280.2	370.8
13	Pangkajene Sidenveng	99	1	7,537	39.2	18.3
14	Sengkang	152	1	7,644	21.5	17.8
15	Watansoppeng	126	1	3,567	19.1	20.3
16	Cabenge	12	1		0.2	0.12
17	Barru	50	1	7,221	12.6	9.8
18	Pangkajene	158	1	5,854	25.5	36.7
19	Rappang	46	1	4,174	12.6	7.4
20	Pinrang	112	1	8,409	38.4	23.7
21	Enrekang	39	1	4,307	5.7	5.6
22	Folewali	100	1	2,543	15.9	16.3
23	Majene	99	1	2,836	6.8	8.1
24	Makale	71	1	4,319	27.5	28.2
25	Rantepao	84	1	8,024	36.3	30.2
26	Palopo	204		5,028	31.0	30.4

付表V-7-2-2 既設電話局一覧(3) (南スラウェシ)

Telephone Exchange Office	Item	MDF (Pair)				Number of Lead-in Local Cables	Power	
		Kapacity	Number of Pairs Terminated at MDF Local Junction Toll					
			⑨				⑩	⑪
1	Ujung Pandang	12,800	10,392	2,400	8	240 x 43 80 x 1 1200 x 5, 200 x 1 800 x 3(Junction)	PLN (110V)	
	II	10,000	6,200	2,400				
2	Sungguminasa	280	135	-	3	40 x 1, 120 x 2	PLN (250V)	
3	Takalar	100	76	-	4	40 x 2	PLN (220V)	
4	Jeneponto	100	59	-	4	60 x 1	PLN (220V)	
5	Banteng	200	168	20	4	40 x 2, 20 x 4, 5 x 1	PLN (220V)	
6	Bulukumba	200	128	-	1	60 x 2, 10 x 1	PLN (220V)	
7	Sinjai	100	70	-	1	60 x 2	PLN (220V)	
8	Watanpone	480	305	1	2	80 x 5	PLN (110V)	
9	Maros	150	127	-	3	60 x 8	PLN (110V)	
10	Mandai	100	90	-	2	20 x 2, 10 x 1	PLN	
11	Malino	36	29	-	1	20 x 1, 10 x 1, 5 x 2	PLN	
12	Pare-Pare	1,400	1,208	-	9	240 x 5	PLN	
13	Pangkajene Sindereng	180	96	-	6	40 x 4, 10 x 1	PLN (220V)	
14	Sengkang	240	151	-	4	20 x 5	PLN (110V)	
15	Watansoppeng	160	112	5	3	30 x 1, 20 x 5, 10 x 2	PLN (110V)	
16	Cabenge	50	50	-	1	50 x 1	PLN (110V)	
17	Barru	50	49	-	1	100 x 1	PLN (110V)	
18	Pangkajene	200	197	-	3	40 x 4, 20 x 2	PLN (220V)	
19	Rappang	60	45	-	3	30 x 1, 20 x 1	PLN (220V)	
20	Pinrang	150	140	-	6	40 x 3, 10 x 2	PLN (110V)	
21	Enrekang	50	37	-	1	20 x 2, 10 x 1	PLN (220V)	
22	Polewali	200	87	-	2	20 x 5	PLN (220V)	
23	Majene	150	142	-	1	40 x 3, 20 x 1	PLN (110V)	
24	Makale	150	143	-	1	20 x 7	PLN (110V)	
25	Rantepao	100	84	-	1	120 x 2	PLN (220V)	
26	Palopo	240	188	-	1	40 x 3, 20 x 4	PLN (110V)	

付表V-7-2-2 既設電話局一覧(4) (南スラウェシ)

Telephone Exchange Office	Item	Area (m ²)		Number of Employees			
		Existing Site	Existing Building	Operator	Technician	Administration	Head
			(12)		(13)		
1	Ujung Pandang	I 7,104	3,382	58	104	43	1
		II 1,685	851				
2	Sungguminasa	268	49	5	3		1
3	Takalar	-*	15*	4	1		1
4	Jeneponto	975	70	4	2		1
5	Banteng	2,166	93	4	4		1
6	Bulukumba	825	208	4	4		1
7	Sinjai	327	66	4	2		1
8	Watanpone	924	174	4	6		1
9	Maros	-*	96	4	4		1
10	Mandai	550	71	4	2		1
11	Malino	-*	25*	4	1		1
12	Pare-Pare	2,360		TLP...22 TLG... 2 TLG Delivery 4	TLP..34 TLG.. 1	TLP..20 TLG.. 1	1
13	Pangkajene Sindereng	-*	18*	4	1		1
14	Sengkang	206	76	5	3		1
15	Watansoppeng	635	70	5	2		1
16	Cabenge	-*	10*	2	0		0
17	Barru	-*	44*	4	2		1
18	Pangkajene	1,225	72	4	2		1
19	Rappang	506	67	3	2		1
20	Pinrang	210	25	5	2		1
21	Enrekang	149	28	4	1		1
22	Polewali	-*	25*	4	2		1
23	Majene	246 Δ	53 Δ	3	2		1
24	Makale	-*	32*	4	1		1
25	Rantepao	240	61	4	2		1
26	Palopo	941	292	4	1		1

* Belongs to the Government, Δ belongs to the Private

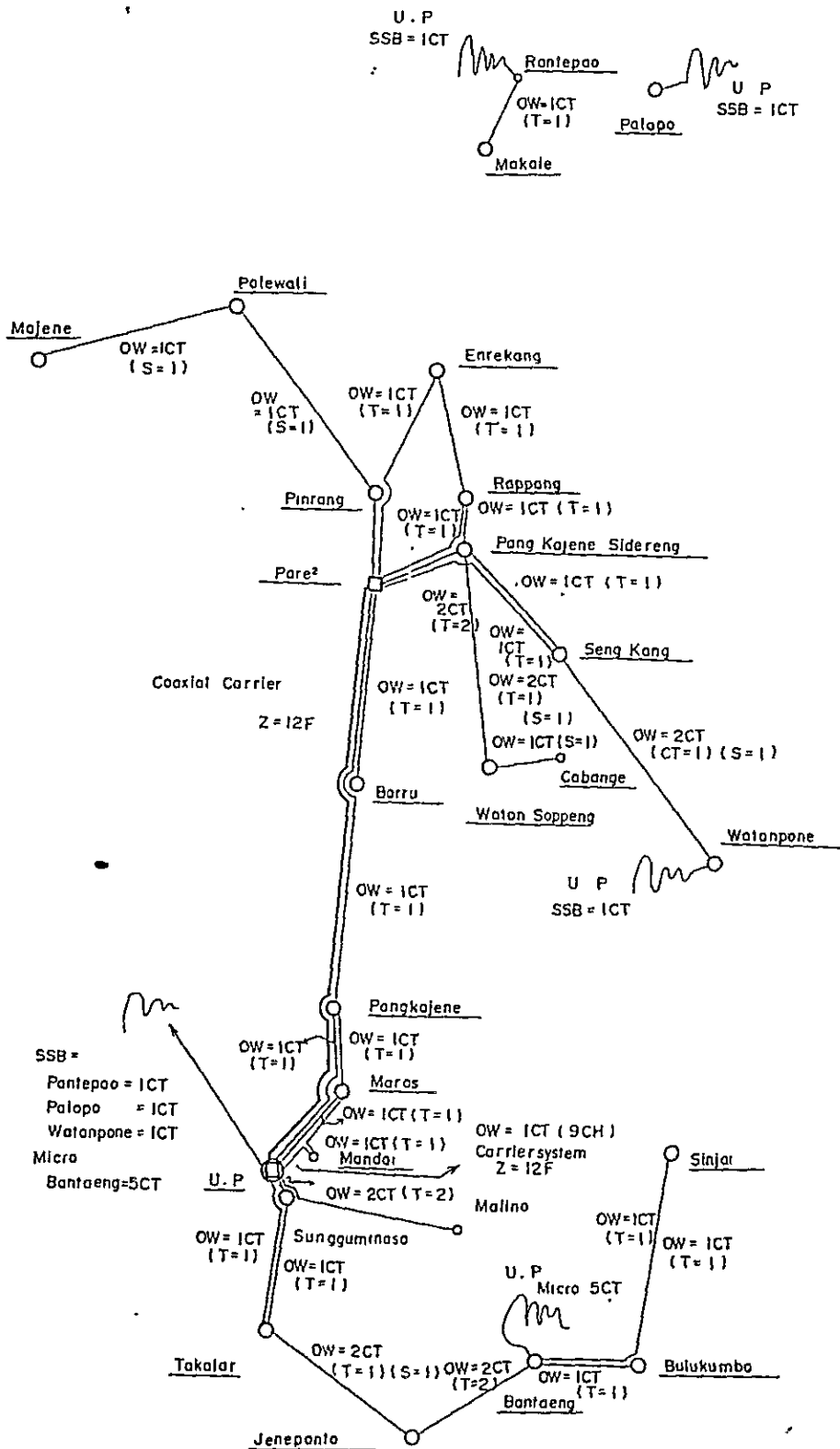
付表 7-2-2 局別電話加入申し込み数表 (南スラウェシ)

Name of Office	1975		1976		1977		1978		1979		1980	
	Subs	Wa	Subs	Wa	Subs	Wa	Subs	Wa	Subs	Wa	Subs	Wa
1 Ujung Pandang	5933		5941		6472		6855	214	7138	1800	7388	1800
2 Sungguminasa	83		91		101		125	10	124	10	133	10
3 Malino	22		24		26		29	5	30	5	30	
4 Takala	21		27		31		25	27	39	30	41	28
5 Jeneponto	49		56		58		58	8	65	8	65	15
6 Banteng	117		123		125		141	20	157	20	158	28
7 Bulukumba	110		117		118		122	25	125	25	128	28
8 Sinjai	40		40		47		59	29	71	29	71	35
9 Watampone	216		221		256		284	25	306	25	312	60
10 Sengkang	148		151		153		152	5	154	5	154	18
11 Watansoppeng	105		107		109		113	20	116	20	116	41
12 Cabenge	9		10		12		12		12	-	12	-
13 Pangkajene Sidenreng	74		83		92		97		104	14	107	40
14 Pare-Pare	702		776		786		794		797	165	798	205
15 Pinrang	95		101		105		113		114	25	114	36
16 Polewali	72		95		83		85		84	21	87	23
17 Majene	69		90		70		70		78	1	79	10
18 Rappang	39		42		48		48		47	5	48	13
19 Enrekang	33		37		37		37		36	12	38	24
20 Makale	52		56		62		65		68	16	71	25
21 Rantepao	46		46		66		76		81	26	84	38
22 Palopo	152		157		165		176		181	16	187	18
23 Barru	22		34		42		46		48	10	50	15
24 Pangkajene	88		122		128		137		149	15	152	
25 Maros	83		99		104		115		124	10	132	
26 Mandai	17		18		18		21		22	3	24	

Note: Sub = Number of subscribers
Wa = Number of waiting applicants

付表 7-2-2 既設伝送路図 (南スラウェシ)

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