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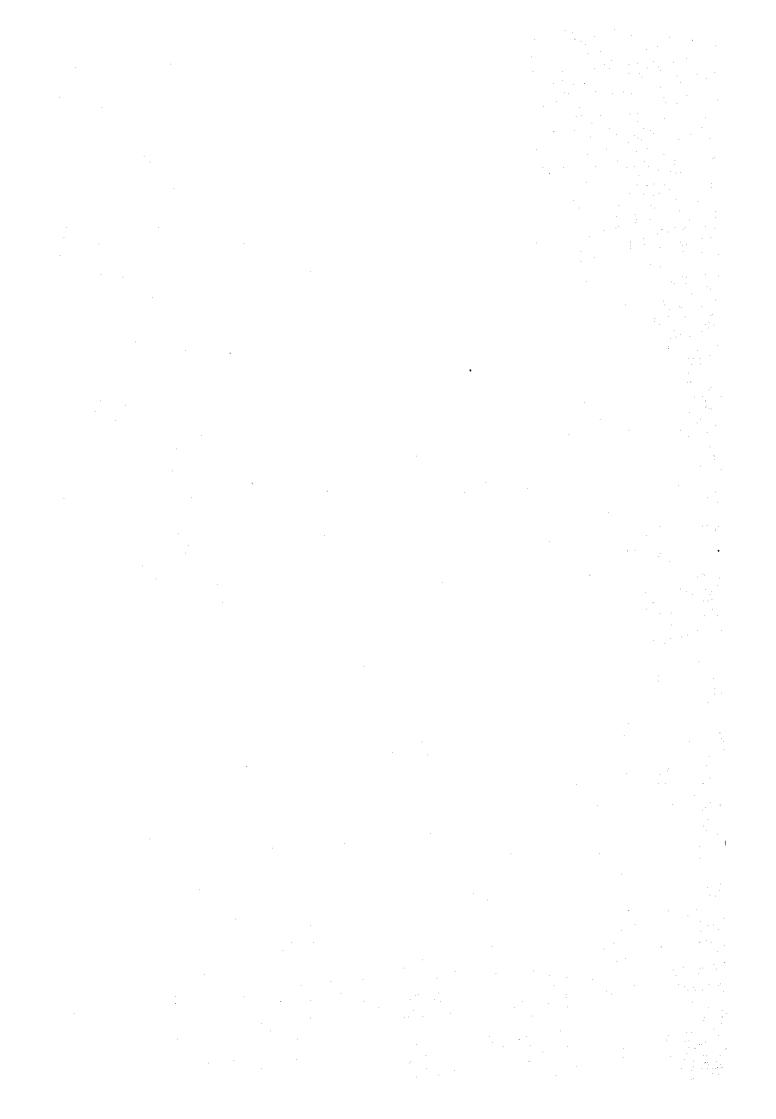
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THE FEASIBILITY STUDY REPORT

ON

KALIMANTAN-SULAWESI SUBMARINE CABLE SYSTEM

IN

THE REPUBLIC OF INDONESIA
(PHASE 1 STUDY)

VOLUME II

MARCH, 1988

JAPAN INTERNATIONAL COOPERATION AGENCY

CONTENTS

			Page
ANN	EX I		1
KAL	IMANT	WORK FOR THE FEASIBILITY STUDY ON AN - SULAWESI SUBMARINE CABLE SYSTEM EPUBLIC OF INDONESIA	. •
ANN	EX II	TRAFFIC MATRIX BETWEEN SC's	13
ANN	EX II	I CIRCUITS MATRIX BETWEEN SC's	31
ANN	EX IV	CONDITIONS OF SEA AND CABLE ROUTE	47
1.	Data	on Earthquake	49
	1-1	Indonesia Earthquake Map (M≥6) 1945-1985 (Chrono Scientific Tables)	49
	1-2	Earthequake Map, Makassar Strait (1985, 1986 BALAY WILAYAH IV)	50
	1-3	Sea Bottom Condition at Makassar Strait (K.O. Emery et al., rev. 1972)	51
	1-4	Indonesia Chronological Record of Earthquake	52
2.	Data	on Submarine Oil Field	56
	2-1	Oil Development Area around Balikpapan	56
3.	Data	on Mine	57
1.7	3-1	Unswept Mine Area	57
	3-2	Mine Danger Area (Data from Indonesian Navy)	58
4.	Data	on Meteorology	63
	4-1	(1/3) Banjarmasin Meteorology	63 64 65
	4-2	Average Location of Wind Distribution and Tropical Wave	66

			Page
5.	Cros	s Section of Sea Bottom	67
-	5-1	Cross Section of Sea Bottom (Plan-1A)	67
	5-2	Cross Section of Sea Bottom (Plan-1B)	68
	5-3	Cross Section of Sea Bottom (Plan-1C)	69
	5-4	Cross Section of Sea Bottom (Plan-2)	70
6.	Loca	tion of Planned Cable Route	71
	6-1	Position List on the Proposed Cable Route (Plan-1A) Banjarmasin - Bantaeng	71
	6-2	Position List on the Proposed Cable Route (Plan-1B) Banjarmasin - Balang	72
	6-3	Position List on the Proposed Cable Route (Plan-1C) Banjarmasin - Pare Pare	73
	6-4	Position List on the Proposed Cable Route (Plan-2) Balikpapan - Palu	74
7.	Subma	arine Cable Landing Point	75
	7-1	Takisung Cable Landing Point	75
	7-2	Lamalaka Cable Landing Point	76
	7-3	Balang Cable Landing Point	77
	7-4	Bojo Cable Landing Point	78
	7~5	Lemaru Cable Landing Point	79
	7-6	Towaja Cable Landing Point	80
ANNI	EX V	GENERAL DESCRIPTION OF DIGITAL CIRCUIT MULTIPLICATION EQUIPMENT (DCME)	81
1.		ace	81
2	Cono	ral Description of Operation	9.2

			Page	
ANNI	ex vi	INFORMATION ON BASIC DESIGN FOR BACKHAUL SYSTEM	85	
1.	Exist	ing Telecommunications Facilities	85	,
	1-1	Banjarmasin (Terminal Station)	85	
	1-2	Gn. Karamaian (Repeater Station)	89	
	1-3	Balikpapan (Terminal Station)	92	
	1-4	Ujung Pandang (Terminal Station)	94	
	1-5	Bt. Tino (Repeater Station)	97	
17.71	1-6	Bt. Saretene (Repeater Station)	100	
2.	Statu	s-quo of Radio Stations on Each Route	103	
	2-1	Plan-1A, B and C Status-quo of Radio Station (Kalimantan Side)	103	
·. :	2-2	Plan-1A Status-quo of Radio Station (Sulawesi Side)	105	
	2-3	Plan-1B Status-quo of Radio Station (Sulawesi Side)	107	
	2-4	Plan-1C Status-quo of Radio Station (Sulawesi Side)	109	
	2-5	Plan-2 Status-quo of Radio Station (Kalimantan Side)	113	
r, r	2-6	Plan-2 Status-quo of Radio Station (Sulawesi Side)	121	
	2-7	Plan-2 Status-quo of Radio Station (Kalimesi Side)	129	
3.	Route	e Map of Bakchaul Subsystemm	131	
	3-1	(Takisung) Backhaul Subsystem Route for Plan-1A or 1B or 1C (Kalimantan Side)	131	
	3-2	(Lamalaka) Backhaul Subsystem Route for Plan-1A (Sulawesi Side)	132	
	3-3	(Balang) Backhaul Subsystem Route for Plan-1B (Sulawesi Side)	133	
		- iii -		

			Page
	3-4	(Bojo) Bakchaul Subsystem Route for Plan-1C (Sulawesi Side)	134
	3-5	(Lemaru) Backhaul Subsystem Route for Plan-2 (Kalimantan Side)	135
	3-6	(Towaja) Backhaul Subsystem Route for Plan-2 (Sulawesi Side)	136
ANNE	EX VI	I INFORMATION ON ECONOMIC/FINANCIAL ANALYSIS	137
1.	Resul Model	lts of Calculation by Macro-economic l Formula	138
	1-1	Real Civil Consumer Expenses	138
	1-2	Real Fixed Capital	139
	1-3	Real Import	140
	1-4	Real National Gross Product	141
	1-5	Real National Benefit	142
	1-6	Gross National Product Deflator	143
	1-7	Market Price Index	144
	1-8	Civil Final Consumer Deflator	115
	1-9	Fixed Capital Deflator	116
	1-10	Import Deflator	117
2.	Relat	tionship between Industries	148
	2-1	Classification of Industries	148
	2-2	1083 Relationship between Industries	149
	2-3	1983 Investment Factor	153
3.	Finar	ncial Data on (280 Mbps x 2)	157

ANNEX I

SCOPE OF WORK
FOR
THE FEASIBILITY STUDY

La ON La Sajar de proce

KALIMANTAN - SULAWESI SUBMARINE CABLE SYSTEM
IN
THE REPUBLIC OF INDONESIA

AGREED UPON BETWEEN

DIRECTORATE GENERAL OF POSTS AND TELECOMMUNICATIONS,

DEPARTMENT OF TOURISM, POSTS AND TELECOMMUNICATIONS

OF THE REPUBLIC OF INDONESIA

AND

JAPAN INTERNATIONAL COOPERATION AGENCY

Jakarta. 17 March 1987

Frake

Ir. ROLLIN
Deputy Director General
Directorate General of
Posts and Telecommunications,
Department of Tourism.
Posts and Telecommunications

浅見春雄

Haruo AZAMI Leader of the Japanese Preliminary Study Team. Japan International Cooperation Agency

I. INTRODUCTION

In response to the request of the Government of the Republic of Indonesia, the Government of Japan decided to implement the Feasibility Study on Kalimantan - Sulawesi Submarine Cable System (hereinafter referred to as "the Study"), in accordance with the relevant laws and regulations in force in Japan.

Japan International Cooperation Agency (hereinafter referred to as "JICA"), the official agency responsible for the implementation of the technical cooperation programmes of the Government of Japan, will undertake the Study, in close cooperation with the Directorate General of Posts and Telecommunications (hereinafter referred to as "POSTEL") and the authorities concerned of the Government of the Republic of Indonesia.

The present document sets forth the Scope of Work with regard to the Study.

II. OBJECTIVE OF THE STUDY

To confirm the technical and economic feasibility of Kalimantan - Sulawesi Submarine Cable System.

III. OUTLINE OF THE STUDY

1. Study area

Kalimantan and Slawesi and the area along the possible telecommunication route between them.

2. Scope of the Study

The study is devided into two phases, and each of the phases will consist of field work in Indonesia and analysis partly in Indonesia and partly in Japan.

- (1) Items to be coverd by the phase-1 study are as follows:
 - a) Collection and review of data/information relevant to the Study
 - b) Traffic forecast and circuits requirement between Kalimantan and Sulawesi up to the year 2019
 - c) Selection of cable landing points
 - d) Selection of ocean cable route using bathymetric chart, etc.
 - e) Basic design of submarine cable system
 - f) Selection of the route of backhaul system
 - g) Basic design of backhaul system
 - h) Cost estimation
 - i) Financial and economic analysis
 - j) Implementation schedule
- (2) Items to be coverd by the phase-2 study are as follows:
 - a) Ocean route survey using survey vessel(s) based on the result of the phase-1 study
 - b) Review of the results of the phase-1 study, if necessary

IV. SCHEDULE OF STUDY

The Study shall be undertaken in accordance with the schedule of the Study. (refer to the Annex)

V. REPORTS

JICA shall prepare and submit the following reports in English to the Government of the Republic of Indonesia;

- 1. Phase-1 study
 - (1) Inception Report 20 copies
 - at the beginning of the phase-1 first work in Indonesia
 - (2) Interim Report 20 copies
 - at the end of the phase-1 first work in Indonesia
 - (3) Draft Final Report 20 copies
 - at the end of the phase-1 second work in Japan
 - by the end of the stay of the Study Team for the explanation in Indonesia, the Government of the Republic of Indonesia will provide JICA with its comments on the Draft Final Report
 - (4) Final Report
- 40 copies
- within two months after the receipt of the comments on the Draft Final Report
- 2. Phase-2 study
 - (1) Inception Report 20 copies
 - at the beginning of the phase-2 work in Indonesia
 - (2) Progress Report 20 copies
 - at the end of the phase-2 work in Indonesia
 - (3) Final Report 40 copies
 - at the end of the phase-2 second work in Japan

11. UNDERTAKING OF THE GOVERNMENT OF THE REPUBLIC OF INDONESIA

- 1. To facilitate smooth conduct of the Study, the Government of the Republic of Indonesia shall take necessary measures;
 - (1) to secure the safety of the Study team,
 - (2) to permit the members of the Japanese Study Team (hereinafter referred to as "the Team") to enter, leave and sojourn in Indonesia for the duration of their assignment therein, and exempt them from alien registration requirements and consular fees.
 - (3) to exempt the members of the Team from taxes, duties and any other charges on equipment, machinery and other materials brought by the Team into Indonesia for the conduct of the Study,
 - (4) to exempt the members of the Team from income tax and charges of any kind imposed on or in connection with any emoluments or allowance paid to the members of the Team for their services in connection with the implementation of the Study,
 - (5) to provide necessary facilities to the Team for remittance as well as the utilization of the funds introduced into Indonesia from Japan in connection with the implementation of the Study,
 - (6) to secure permission for entry into private properties for the conduct of the Study,
 - (7) to secure permission for the survey vessel(s) to enter the Indonesian territory waters,
 - (8) to secure permission for the Team to take all data and documents including photographs, for the sole purpose of the Study out of Indonesia to Japan,
 - (9) to provide medical services as needed, its expenses will be chargeable on the members of the Team.
- 2. The Government of the Republic of Indonesia shall bear claims, if any arises against the members of the Team resulting from, occuring in the course of, or otherwise connected with the discharge of their duties in the implementation of the Study, except when such claims arise from gross negligence or willful misconduct on the part

of the members of the Team.

- 3. POSTEL shall act as counterpart agency to the Team and also coordinating body in relation with other governmental and nongovernmental organizations concerned for the smooth implementation of the Study.
- 4. POSTEL shall, at its own expense, provide the Team during the Study period with the followings, in cooperation with other relevant organizations;
 - (1) available data and information related to the Study,
 - (2) counterpart personnel,
 - (3) suitable office space with necessary equipment in Indonesia.
 - (4) credentials or identification cards,
 - (5) security clearance for the survey vessel (s).

VII. UNDERTAKING OF JICA

For the implementation of the Study, JICA shall take the following measures:

- (1) to dispatch, at its own expense, the Team and the Japanese vessel(s) to Indonesia,
- (2) to pursue technology transfer to the Indonesian counterpart personnel in the course of the Study.

VIII. CONSULTATION

JICA and POSTEL shall consult each other in respect of any matter which is not agreed upon in this document and may arise from or in connection with the Study.

The Schedule of the Study (Tentative)

PHASE-1 STUDY

MONTH	1	2	3	4	5	9	7	8	8
WORK IN INDONESIA						;	-		
WORK IN JAPAN									
REPORT PRESENTATION	Δ 1 C / R	/R		1 T/R	Z	∆ DF⁄R	Z R		F / R

PHASE-2 STUDY

HINOM	~	7	3	7,	ဂ	5	2	ה
WORK IN INDONESIA							 ***	- 4 - 5
WORK IN JAPAN							 	
REPORT PRESENTATION	∆ 1 C∕R	R	A P/R			. A F / R		

IT/R: Interim Report Note I. IC/R: Inception Report, P/R: Progress Report, DF/R: Draft Final Report, F/R: Final Report

Note 2. Commencement of the phase-2 study is subject to the acquisition of SECURITY CLEARANCE by indonesian side.

MINUTES OF MEETINGS

MINUTES OF MEETINGS

0 N

SCOPE OF WORK FOR THE FEASIBILITY STUDY

0 N

KALIMANTAN-SULAWESI SUBMARINE CABLE SYSTEM

I N

THE REPUBLIC OF INDONESIA

The Government of Japan has dispatched the Preliminary Study Team (hereinafter referred to as "the Team") to the Republic of Indonesia in order to discuss the Scope of Work for the Feasibility Study on Kalimantan-Sulawesi Submarine Cable System.

Directorate General of Posts and Telecommunications (POSTEL) and the Team held meetings at the conference room of POSTEL, Jakarta on 9th, 16th and 17th of March 1987.

- 1. Ir. ROLLIN, Deputy Director General of POSTEL, expressed his gratitude to the members of the Team who were sent to Indonesia in response to the request of the Government of Indonesia.
- 2. Mr. Haruo AZAMI, leader of the Team, appreciated the cooperation extended by the Government of Indonesia to the Team.
- 3. POSTEL and the Team discussed and agreed upon the Scope of Work.
- 4. POSTEL and the Team confirmed the following items concerning the Scope of Work.
- (1) JICA shall study on all the routes between Kalimantan and Sulawesi

including Balikpapan-Palu.

- (2) In Draft Final Report, Phase-1 Study Team shall recommend final ocean survey route. After POSTEL approve of this route, JICA will commence preparatory work for Phase-2 Study (ocean survey).
- (3) POSTEL shall inform JICA of the acquisition of SECURITY CLEARANCE, in writing, within 3(three) months after JICA's notification of necessary information.
- (4) As for equipment, machinery and other materials mentioned in chapter VI, 1, (3) of the Scope of Work, JICA Study Team shall take home all of them after the Study.
- 5. POSTEL strongly requested for the training of a few persons from PERUMTEL /POSTEL in Japan at Japanese expense.

The Team promised to convey the request to the authorities concerned in Japan.

Jakarta, 17 March 1987

Ir. ROLLIN

Deputy Director General
Directorate General of
Posts and Telecommunications

浅見春雄

Haruo AZAMI

leader of the Japanese Preliminary Study Team

ATTENDANTS LIST

Indonesian Side :

1. POSTEL

Ir. Rollin Deputy Director General Mr. R.I. Soemardi Bc.T.T. Director of Planning Mr. Soctarto Finance lr. Koesmarihati Sugondo Planning Mr. Soedarpo Bc.T.T. Engineering Mr. Kicky A.M. Planning Mr. Musnaldy ditto Mr. Samlawi Bc.T.T. ditto

2. Department of Tourism, Posts and Telecommunications

Mr. Soetomo Planning Division
Mr. Rai Sardjana Bc.T.T. ditto
Ir. Syahrul Sinulingga ditto

3. PERUMTEL

Mr. Kisworo Bc.T.T. Director of WITEL IX
Mr. Suharto Planning division, WITEL X

Japanese side :

1. Preliminary Study Team

Mr. Haruo Azami Leader of the Preliminary Study Team
Mr. Koji Noguchi Member
Mr. Keiichi Kusakawa Member
Mr. Shigeo Yamamoto Member
Mr. Ryutaro Totsuka Member

2. Embassy of Japan

Mr. Noboru Yoshida

ANNEX II TRAFFIC MATRIX BETWEEN SC's

Distributed Outgoing Traffic from Si to Sj (1994) [1/2]

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8,314(51)	76.08	6 ::	1.91	8	7.78	6,00	16,85	6.50	7.21	4.5	8	7, 0	5.8	3,14	7.53	3.60	3.28	3.76	2.31	0	16.3	7.04	1.26	3.63	9.32	1.07	1.73	1.53	3.	, ;; , ;	5	<u>3</u>	2.95	2.31	2.18	7	1.12	6.0	1.06	0.43	242.93
1031103	28.76	3.89	9.62	3.83	2.51	. 79.1	90.7	2.18	2.31	2.00	3.10	2,3	38	5.49	5.33	2.17	2.89	2.54	5	2.49	0.83	2.84	5.58	1.12	3.8	0.46	0.72	9.6	<u></u>	55	1.83		 22	8.	18.0	œ.	8,	0.73	0.72	8	35.86
PAL (65)	88.88	23	23 24	=======================================	32 23	2.67	6.67	2 B2	3.05	2 69	3.84	0 43	1.51	2.31	5.78	3.38	88 88	6	2.47	% ?3	8	87.9	=	1	5.39	9.61	=	0.91	2.48	2.18	2	<u>=</u>	1.62	1 21	11	7.	=	e 8	ж 0	0.33	132.62
FD (C3)	(3.20	5.65	0.89	-	3.6	2.76	6.55	2.80	3.05	2.10	3.83	 	1.73	2.82	16.9	2.56	6	3.57	2.72	3.32	1.17	£.15	2.63	1.72	6.17	69.0	 :-:	1.07	2.65	2.33	28.	1.2	1.82	<u></u>	1.27	∵	2.98	1.52	- 30	63.0	139.89
PRE(42)	36.03	5.08	0.82	S	3.55	2.59	. 16.9	3.62	3.36	2.71	1.32	S.	8.	2.53	12.59	6	2.65	3.63	2.73	3.82	1.19	1.22	0.7	1.47	2.3	0.53	88.0	0.79	2.23	2.01	7.38	1.02	 	Ξ	1.02	85	68.0	9.68	0.73	0.30	130.91
UP (51)	71.39	10.15	×.	8. S	8.8	5.23	14. 27	9 9	5.53	S 55	82 C	1.15	90	5.33	6	11.65	92.	5.43	78.3	7.10	5.29	7.28	<u></u>	2.82	9.11	. 9.	2	₹.	5.33	8:	2.55	~: 82	2.81	2.17	æ 	3.83	76.	33	1.62	0.58	245.00
KP (39)	11.11	6.05	96.0	:8	3.9	3.07	7,63	3.48	3.65	3.13	5,14	19.0	. 25	0	5.52	2.42	2.83	2.24	2.35	함	1.10	3.08	9.65	?:	5.73	59.0	8	8;	2.62	2.42	1.58	1,20	 X	¥.	<u>د</u> .	2,73	9.	96.0		0,50	113.22
DID(38)	28.95	=	9.0	3.15	2.67	2.6	5.33	2.46	2.5	2.11	3.75	6) (-	2	÷.39	.83	8.	. 55	19.	2.22	0.76	2.13	11.0	.0.	 	0.42	0.69	0.63	-	22.	10.1	0.78	1.13	8.0	0.77	=	89.	58	99.0	0.28	97.68
SBU(37)	9.24		1.2	 	8:	52.0	2.19	=	- 6	1.83	2.09	•	0.6	0.65	1.27	0.51	0.45	0.42	3	0.63	0.26	99.0	0.12	0.33	요.	0.13	0.20	6.19	5.55	0.52	9.32	0.24	0.35	0.27	17.0	9	0.16	0	0.16	0.07	32.20
DPR(36)	88,16	1, 84	2.46	2.65	11.6	8.26	28.81	18.22	. 37	10.28	0	1.87	3.37	16.3	9.28	3.93	3.67	3.57	2.80	.8 8	7.62	5.73	Ξ	3.26	10.01	1.24	1.97	۶.	5.56	5.33	3.27	2,45	3.42	2.62	2.37	2.46	1.32	1.12	 %	6.57	318.74
Mt (35)	103.21	18.88	3.63	23 62	23	12.93	39.95	11 52	20.39	6	16 54	97.0	8	3 86	5.6	2.55	5.68	2.56	1.85	6.39	27.73	3	0.88	3.17	9.79	1.15	1.78		5.73	5.89	3.35	2.43	3.26	2.51	2.28	1.7	0.95	0.81	5	6.42	356.38
£	99.84	<u>}</u>	2.98	19.28	17,31	10.60	61.79	20.49	•	20.11	09° X	ه ج	2.32	3.55	99.9	2.95	2.97	2.88	2.12	7.12	2.57	£.8;	9.0	3.23	10.14	61:	1.86	1.67	5.7	5.30	3.33	2.65	3.33	. 26	2.32	2.2	1.06	0.0	1.11	97.0	372.73
JR (33)	82.41	13.53	2.X	13.53	£:	7.7	37.14		20.74	× =	18.75	1.02	2.28	3.42	6.68	2.84	2.76	5.69	2.03	6.50	2.24	4.46	9.8	2.77	8.8	1.02	79.	1.46	2.7	69	2.80	2.08	2.86	2.20	85.	1.8	8:	9.8	1.03	0.43	289.76
\$8 (31)	195.64	33.34	5.83	SS.	31.73	28.38		×	S. 23	36.65	27 10	<u>8</u>	. 5	. 6.B6	13.28	5.95	5.93	5.83	2.7	15.40	5.53	9.95	 %:	6.63	20.02	2.36	3.66	3.33	:: ::	11.20	6.58	1,87	6.53	2.07	£.63	55 53 53 53 53 53 53 53 53 53 54 54 54 54 54 54 54 54 54 54 54 54 54	2.10	1 73	2.18	0 .90	658.83
PVT (28)	153.56	36.65	8.25	30.45	28.75	6	21.99	7.81	16.59	12.79	8.38	6.67	88.	2.98	5.25	2.41	5.69	2.52	8.	2.3	2.39	7	0.30	3.62	11.58	 85.	2,09	1.37	7.5	8.43	17.4	3.06	8. 8.	3.07	2.11	1.73	96.0	0.83	1.05	0.43	609.70
TK (27)	151.41	2 23	5.73	(8.57	0	28.22	33.57	11 40	16.75	2, 28	:X	8	2.39	7	9 70	3.05	333	3.12	2.26	7.39	5.6	5.32	1.09	4.15	13.13	1.55	5°.3	7.14	8.63	35.5	€.7	3.35	\$.45	3.41	3.88	2.13	1.18	1.0	1.27	0.53	167.27
(5Z) 8K	181.58	35.07	£.7	 -	17.72	8	6.2	12.30	18.55	26.33	13.15	1.02	2.77	¥.	16.7	3.63	3.9	3.75	5.66	35.	3.75	6.47	7.33	5.19	15.63	ಪ 	2.83	2.53	9.76	10.25	5.64	9.	5.30	£.08	3.7	5.49	1.10	<u>6</u> :	6	0.61	542.03
CBM(23)	63.72	17.96	.	%. %:	¥.3	χ. χ.	6.55	2.35	60	3.53	2.59	0.2	9.0	26.0	1.7	0.70	0.89	80	0.59	8	0.83	¥ 9 .1	0.30	<u> </u>	60.7	64.0	0,73	9.65	2.8	3.3	19.	1.13	:: ::	2	1.00	0.57	0.32	0.28	0.35	0,14	154.82
B) (22)	95.68)	_	16.00	34.63	88	33.89	33.23	12.35	15.83	17.28	13.93	- 13	3 39	2.12	0 6	4.35	5.03	\$.	3.38	87.0	₹. 33	7.96	1.70	7.31	24.45	2.94	¥.	3.89	17.63	22.73	19. €	.8 .8	₩.	٠ 3	8.	3.21	8	33	8	0.82	\$88.05
Jr7(21)	0	17.78	51.93	159.49	130.67	129.89	178.38	68.78	38	86.42	81.(7	7.10	22.39	38.73	39.98	28.33	35.56	31.09	22.30	63.48	26.02	51.94	11.52	10.46	172.81	20.55	31.37	28.33	115.90	154.43	£8.77.	42.6¢	59.64	65.51	10:24	22.88	12.97	1.45	15.34	6.29	.714.81
Xe!j	÷.,	- (1	. 22.			1				7.1		٠,٠		'			٠,		į.	- :			1				_		٠		_	_	_		_	_	_	_	_	_ :	TOTAL 2
			_		- -						:			-		_		_				•																		. '	•

Distributed Outgoing Traffic from Si to Sj (1994) [2/2

101AL	190.52	138.51	531.68	(50.20	383.24	680.58	281.43	353.41	333.99	308.79	28.03	85.76	133.27	237.43	117.28	131.19	120.37	87.97	228.79	¥.16	191.20	(2.03	163.50	553,76	17.90	18,5	100.21	318.35	336.56	183.62	15.38	189.11	156.25	130.30	8.0.	(9.12	1.53	27.23 27.23	74.07	11.36	
MRK (97)	8.89	0.13	91 0	30.0	23	1.16	0.5	0.55	65 0	69.0	0.07		0.58	92.0	0.33	0.57	0.37	0.32	5.5	0.18	0.52	0.12	& 0	17.	9.14	0.23	0.21	8.5 2.5	6.45	S.	6.23	9.53	0.27	0.23	0 3	1.2 1.2	27.0	0.7	1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	26.14	
JAP(96)	19.72	8	33		<u>~</u>	2.56	5	1 21	1.08	25	0.16	%	1.21		1 N	33	0.86	0 72	**	 	1.20	6.29	. 0.65	2.73	0.31	0.53	0.49	Ξ	0.3	0.6	0.52	0.8 0	19.0	S.	=	8	0.73	ස ද	30.3	23.55	
SOI(95)	15.43	8,0	• • • • • • • • • • • • • • • • • • •	 82	60	5.19	, 0	E	16.9	<u>ස</u>	0.14	9,6	66	89.	0.72	 89.	9.8	9.79	1.92	0.37	1,13	0.27	0.56	2.13	0.24		. 38	9.91	0,81	Š	6.43	75.0	6.49	0.63	1.57	0.92	"	2:	U. 21	49.26	
11 (92)	17.46	23	1 65	1 37	2	2.53	=	1 20	1.67	. 52	9. 29	2			ŏ.	3.23	1.19	1.03	1.25	 3	1.67	9.38	9.0	2.46	0.28	0.47	0.43	.03	0.93	29.	69.0	0.73	9.5	0.20	<u>-</u>	0	0.93	6.63	C7'0	58.12	
AB (91)	28.95	65.5	2,77	2.32	<u>~</u>	82 ~	6,	5.08	1.81	2.67	8	. .	2.51	3.26	85	3.21	1.79	38	2.05	9 73	2.26	0.52	1.05	3.96	0.45	0.75	6.09	1:31	1.5	1.62	0. 80	 82	0.91	0.81	~	29.	1.47	8;	C6.9	93.99	
Styl (77)	50.93	.03	1.15	3.37	2.98	ار ارز	2.10	5.49	2.42	2.57	0.23	5.7	.23	2.13	. 02	1.33	7.13	0.80	2.31	0.98	2.04	0,48	2.48	12.16	95"	56.	1.62	9.10	3.83	3.32	4.26	.53	4.45	0	0.8		5.0	0.52	17.0	QE . 23)	
P8R1763	56.56	1 12	93.7	3.66	23	ج	2.28	2 69	2.61	2 80	22	6.83	2	23	1.09	*	2	0.86	2.39	8	2.13	0.50	2.22	17.78	2.51	5.64	2.16	6.33	4.25	8; 8;	×	11.03	6	4.3	ည် က	0.52	5.65	\$5.0 	7U ***********************************	172,47	
(27) 09	71.92	3	5.61	4.63	80°	۲. ۲.	 88:	~	3.38	<u>نځ</u> د	0.32	50.	1.73	2,88	3	8	1.56	7.09	2.93	1.2	2.63	0.62	5.8	2.9	3.59	3.43	7.88	7.58	5.	5.07	7.13	~	16.71	4.32	1.12	59.0). 	0.75	0.00	213.52	
JB (74)	57.86 7.86	1.16	. S	3.68	3.28	5.63	2.29	2.62	2.58	2.67	0.5	9.5		2.14	<u>=</u>	1.29	5	6.0	2.31	0.98	8	9.46	2.31	10.92	65.1	1.78 85.	<u>.</u>	₹.6	.85	5.18	~	8.	4.42	4.26	0 80	9.46	0.40	0.52	17.0	162.19	
LT (73)	11.80	. 1.65	6.12	20.5	19.	7 (2	5 83	<u></u>	3	89 F	9	0.97	28	7.68	1 26	<u>ج</u>	=	0.98	7.88	1.21	2,41	0.55	2.58	11.78	1.49	1.98	1.72	13.8	8.85	φ	5.06	5.3	3.98	3.25	8	6.5	0.69	9.0	07.0	215.30	
1.0k(72)	183.75	3.21	10.71	6.77	89 : 89 :	12.16	3 .	5.73	8	S.48	0.47	9:	2.38	9	88	5.39	2.01	1.65	7	.83	3.55	92 O	3,64	13.71	1.69	5.39	2.1	13.38	&	8.53	4.55	5.34	10.4	3.57	=	0.83	=	0.92	U.30	367.46	
PG (71)	136.15	2 72	10 07	*	7.47	12.16	69	.8	38.	5.6	6	الا	2.53	3	7.09	2.57	2.32	1.59	. 8.	2.07	10.	0.9		17.87	1.22	3.02	2.62	ප ්	13,21	13.16	9.03	2	5.98	5.72	.53	0.93	0.73		 	336.19	
B/(A(65)	35.62	19.0	2.80	2.32	8	. 78 13	5.5	1.73	\$ 	5		19:0	1.02	59.	0.79	<u></u>	0.92	9.0	1.61	0.65	1.51	0.37	1.32	16.87		5.53	0	2.89	2.23	-:	1.58	2.38	2.19	1.61	69.0	2.0	9.36	e .	0.17	112.10	
(19)163	39.25	55.0	3.16	2.57	2.2	÷.3	% -	£.	.83	2.12	0.20	0.67	=	<u> </u>	<u>ء</u> ج	1.2	5	2.0	1.78	0.72	19'1	0.43	<u>.</u>	25.91	. .	0	5.50	3.22	2.51	2.00	1.78	3.5	5.68	1.93		≇	 85.	 	0.41	131.68	
586(63)	27.29	2	2.15	- 78	55.	2.83		2	8	=	0.13	0.5	L 0	- 1	8	0.76	99.0	0 (5	- 18	61.0	8	0.29	1.01	17 48	٥	2.12	- -5	2.51	1.89	1.61	1.46	3.95	5.68	Σ.	2.4.	0.23	0.2	۲. ۲.	. CI 'A	92.06	
HDN(61)	191.78	3.69	15.23	12.58	10.87	20.28	8.15	5.51	9.19	10.17	0.94	 ∓	5.21	8. 53	₽.	5.63	1.7	3.31	8.63	3.53	7.97	1.8	7.57	6	14.61	22.98	14.89	16.88	12.79	18.51	9.26	21.07	15.88	30.00	3,48	7. 1.	 22	% S	0.Y)	541.93	
PTK(56)	58.19		2 22	4.48	× ج	 	2.8	3.53	3.32	3,51	22	9.	. 20	3.0	Ş .	1.77	1.7	.0	3.70	1.8	3.19	0.72	-	8.53	0.98	52	7.33	5.02	3.83	2.62	2.29	2.77	2.27	2.45	6	0.62	0.53	0.6 6.6	97.0	168.83	
TAR(55)	16.03	, X	 19:	1.31	90 1	2.11	=	-	1.83	1 33	0.13	0.17	6.7	3.53	98	<u>82</u>	30	0.63	1.47	0.5	2.40	0	0.80	2.41	0.23	0.45	0.41	1.07	0.92	0.62	0.50	0.71	6.56	6.53	0.57	S 0	6.28	F. :	0.16 202252335	51.38	
SHR(54)	62.35	<u> </u>	6.82	5.51	.37	8. 8.	4.47	6.	3	5.90	0. 20	1.98	3.04	7.43	3,98	2	6.20	2.65	7.65	2.53	~	2.03	3.03	8.62	0.97	1.66	**	9.19	3.58	2.35	 88.	2.62	2.08	1.93	5.13	7	<u>.</u>		****	202.22	
741]	JKT(21)	GE (2)	SH (24)	W (27)	PLT (28)	SB (31)	JR (33)	(35) E	M (32)	DPR(36)	SB4(37)	EMD(38)	XP (39)	e :::)	PRE (42)	FD (43)	PAL (45)	KD1(49)	8.JH(51)	SPT1533	SPIR(54)	148(55)	PTK(56)	MOM(61)	SBC(63)	(39)WS1	81(4(6S)	F (3)	13x(12)	(2)	.(X) 90	PB (75)	PBR(76)	SXII(77)	(16) PY	11 (22)	501(55)	JAP (96)	THAT (9/7)	TOTAL	
	•											٠.						-		. :	٠.										-					1	•		i.		1

Distributed Outgoing Traffic from Si to Sj (1999) [1/2]

xe!]	JKT(21)	(22) 86	CEN(23)	(32) 15	YK (27)	Pur (28)	SB (31)	JR (33)	₩ (30)	(32) W	DPR(36)	SBV(37)	EED (38)	EP (39)	(13) an	PRE (12)	10 (53)	PAL(45)	(0) (0)	BJMIST	SP1(53
JKT(21)	0	3.0	£: 8×	28:73	23, 35	233.18	306.93	128 08	ξ. Σ.	55.53	15.53 15.53	1.33	50.05	22 F~	113.06	55 28	97.59	\$: ::	 	55.42
8 (27	570.32	6	23.23	23.67	8	28.65	8: :≍	22.09	27.39	33.58	23.57	2.23	5.97	2 2	16.84	2	9.43	27.8	ص ص	£3.	80 80 80
CBH(23)	82.13	26.65	-	12.53	18,08	13.50	9.3	%	5.03	2	=	38	 	69:	88	 33	8		 89 	%	33
(32)	249.42	69.95	13 49	9	53, 55	50.72	99.99	23.55	32.10	5.66	22 33		8	8	14.26	8 3	7.35	7.05	\$ 23	16.73	7.70
YK (27)	207, 12	2.28	10.05	82.21	-	5.38	3	33	28.95	5	19.51	2	7	6 9	11.98	9	6.17	5.85	1.72	13.36	5.6
BUT 1281	106 40		22	E as	11		72 72	11.2	2	5	17 11	2	2	2	8	K	۲	4	12.2	80	. 67
1071 #1	20.00		3 :	2 6		17.30		70	7	2 2	2007	1 5	:	1 5	5 2	77			×	2	5
2 2	7.00	17.6	- 1	0.00	5 5	07.10		6	07-10	9	2	0	-	2.5	2:	2 (- 3	200	2 5	3	
JR (33)	107.98	20.26	90.	22.90	19.69	13.87	59.23	6	7	19.12	× ×	1.89	×.	60.0	11.10	200	26.	3	2	==	
(i) E	129.34	25.33	2	8. 8.	33	17.1	6.63	: :8	¢	32.00	23.38	1.7	3 83	6.21	6	2.30	۰. ئخ	2.	2	23	6
E (32)	131.03	27.39	ر ج	(3.39	10.50	20,67	61.23	16 11	32.56	6	35.55	1.37	22	5.28	3.6	. (1)	. 19.1	\$ 1 3	₩ ₩	10.56	3
DPR(36)	124.08	72.17	. 33	21.77	92 56	3.8	45.48	31 13	23.73	86.99	-	3.66	\$ 68	8.72	15.88	2 05	6.57	6.30	5.25	13.30	5.12
SBU(37)	11.11	£	8	<u>r</u>	1 52	=======================================	3.	17	9	1.28	3.11	0	9. 76	8	5.00	8	0.72	0.70	0.62	1.26	0,47
510 (TR)	31.73	2 02	8	. 27	3.73	2.84	7.05	3 52		2.97	5.07	0.75	•	7.13	6.30	2.76	2.70	2.33	2.61	3.21	1.7%
(OL) 44	50	0	7	5	6 63	11.	2.15	8	£	2	25.8	1	7 66	~	6 52	:S	2	50.	**	5.48	2.16
12	9	ž	~	11 83	2	6 07	21.17	33	\$	5	15 B	200	7	8	· <	35 55	8	2	0	11 12	3
2000	77 Y	7 0 5	72 1	A 17	21.5	70	5	17.7	78 7	2	71 7	98	2 81	14	9	-	9	8	1/)	9	2.85
130		5 6	5 -	; ;				2 6		: :	2 7	;							Č		i
5	21.18	Š	õ	1, 0	2	6	0.00	â	2	90	7.0		7.7.7	71.0	À.	70 .	>	, ,	17.0	٠,٠	3
PAL (4S)	48.90	7.65	1.45	0.40	.	1.2	0.0	. 62	.83	5	2.36	0.72	2.(3		6.49	5.78	6.32	-	* *	6,43	2.45
X01(40)	35.76	5.53	, 0.	79.	~ 38	3.00	3.45	35.50	3.63	<u>~</u>	11.1	6.63	2,66	6.3	8.67	69.	.9.	 E:	:	1,03	<u> </u>
B 18(53)	8 22	17 13	3.37	15.9	12.98	98.6	36.54	11.09	11.89	10.56	33.05	15	3.53	5.5	12.85	6.61	5,85	6.73	4.32		9.5
(101161)	10 10			7	* *	¥	0	8	77	7.17	7	4	*	8	7	2 82	2.15	200	5	6	•
100110	05.75			5 :	3 2		7.7	5 6			3 6	- - -	2 5	5 5	9	, .	7 7	; ;	. Y	1	, E
(44)	8	2.7	7.79	2:	ή.	. 40	8 :	*	74.0	<u>.</u>	, , ,	<u> </u>	,	3 5	2	3	į	3 8	2 8		
TAR(55)	16.96	2.61	6.69	7.	11.	9.	3.16	07.	· ·	S	*	0.20	5	≥ (* '7	2	= ;	£ ;	S :	78.7	3
PTK(56)	72.98	12.00	2.2	8.87	7,17	6.05	11.49	5.75	 	2.56	5.4	9.56	1.61	2.7	.93	2.48	9	2.93	£:	97.9	7
MON(61)	274.81	10.03	~ .	23.00	22.93	19.62	35.08	15.26	17.22	16.46	18.01	1.90	5.73	10.11	16.11	8 0	 2.	9.37	6.3	16.10	٠. بر
\$86(63)	32.64	88.3	0.85	3, 18	2.71	2.33	80.7	1.77	2.01	 23.	2.09	0.22	9.6	 	1.83	0.93	7.	 8	0.77	8	e3 [8]
[53(64)	(5.32	8	1.16	75.5	3.78	3.21	5.92	2.55	2.86	2.72	3.02	0.32	6.0	*	5.73	. .	8.	33	1. 16	2.68	¥.
PAIA (65)	17:57	6.53	1.15	17.7	3.77	3.19	5.81	2.55	2.86	2.72	3.04	0.32	1.00	1.7	2.75	· ·	6.	3.	1.13	2.67	1.2
P6 (71)	175.44	27.89	F	16.06	13.37	12.12	18.91	2.90	0.77	9.2	6	0.90	2.57	15.4	Ę.	3.62	£.52	8	5.5	=	8:
13x(72)	27.3	50	5	61.91	13.83	13.22	18.16	35	26.85	9.6	8.39	28.5	2.32	3.9	6.52	٠. ع	3.87	3.51	2.58	7.31	3.43
17 (73)	108.87	17.77	2.85	0.70	8.20	7 (6	11.68	40	78	5.62	S	35.0	_ 8	2.75	63.7	2.20	2.78	2.68	=======================================	18.	2.33
JR 1741	22.46	8	96	6 9	×	<u>ن</u> این	60	99	2	8	17	3.42	17.71	2.12	3.50	1.73	1.1	86.	1.12	×.	8
8	91.33	13.98	2.41	8.0	6) /	6.52	11.09	4.78	. <u> </u>	5.29	5.56	0.58	22.	5.3	97.	2,33	3.13	2.72	28	16.4	2.33
P88(76)	71.77	10	6	7.00	5.92	5.15	8.00	3.78	7		87	95.0	33.	2.35	3.81	83	₩	2,18	25.	3.96	 83:
SKN(77)	64.78	10.00	1.76	67.9	5.42	-	30	29	96	3.85	0	0.42	1.22	2.11	3.52	52	5.29	2.04	1,4	3.70	**
18 (01)	76.70	S.	8	2	×	200	7		5	8	5	0	2,7	2	2	2 77	195	~	1.37	3.38	33.
3	20.15	5		<u> </u>	3 :	: -	5	; -	: -	: 3 -		2.2	5	5	2	55	2	8	7	8	0.5
(201102)	18 45	2 63	9	3 6	5 5	3 5	3 2	5 5		2 5	3 :	;	20.0		1 5	5	í K	: :	*		5
140104	2.5	3 6	Ç 5		- 6	7.	2 2	- F	2 2	3 5	7.5	3 6	2 2	: 2	, ,	,	3 5			3	2
1041746	2.53		3 6	3:	17.7	2;	<u>.</u>	= !	0 0	3 ;	9.7	7.0	5 :	75.7	7.7	7	18			, F	
MRK(97)	10,08	1.37	6.23	1.07	6.93	0.36	. X	0.75	0.19	0.71	16.0	0.12	6.55	G. 30	s.	16.0	£	2,70	2C.U	C/ 'a	2 2
11 11 11 11 11 11 11 11 11 11 11 11 11	i i		11.		4		1 00 00 0			**	K	8		01.1 70		21.0	שלי טנפ	5	11 034	10.01	102 63
101/1	60 702 7	1,378,21	25.55	890.12	116.39	S. 76	1,098.94	10'16	606.77	573,02	314.4	>5.72	148.15	281.03	415.6/	71, 52	0.70	220.19	3	ă. 3	103.00

Distributed Outgoing Traffic from Si to Sj (1999) [2/2

																											•									
TOTAL	1,372,60	67.57	753.61	617.60	143.83	(2) k	26.55	5.8.6 5.15	17.44	120.05	226.91	404.33	192.89	28.58	21.18	120.00	157 58	330.83	65.83	238.20	19.826	131.51	182.24	170.02	50.72	\$11.25	322.10	240.08	323.23	280.85	2 2 2	76-76	2 2 2 3 3 4 3 4 3 4 3 4 3 4 3 4 3 4 3 4	4	2 X	18.952
MRK(97)	32.28																																			66,43
JAP (96)	3.83	2.87	2,45	F.	÷.	Z. 5	G. 5	3 5	2,70	1 33	2,13	2.12	1.25	2.65	 89	7.2	2 %	2	24.0	1,12	1.76	0.53	(a)	8.8	~ .	3	9	0.91		<u>.</u>		5	e :	7	e 1.1	95.34
(56)102	3.21	2.46	2.09	9.	88	8	٠.	ន្ទ	7 %	96	.9s	2.65	1.25	 8.	<u>.</u>	٠.٠ د د	 - 4	3 6	5	36.0	3.85	ع د	(S)	89.0	:S:	2	8.	1. 73	<u>s</u>	જ	0.77	10.2	es: •	-	1 S	83.58
17 (92)	3.59	2 2 2	2.35	~ ·	<u>.</u>	æ. :	S 1	- c		2 6	2.18	3.23	1.56	5.78	2.07	c	71.7	3.5	5.5	1.12	57.	0.47	5.3	6.3	₹.	 83	3	ص ش	8 .	2.95	60		e> <u>c</u>	<u>^</u>	9.5	95.75
8 (91)	45.86 6.18	(.82	8:	3.5	<u>*</u>	× .	2.52	3.5	7.5	. 6	87.	5.81	2.73	5.91	3,12		2 2 2 3	3 2	9,85	₹.	7.01	67.0	7.7	<u>-</u> 2	2.88	2.51	2	Ξ.	2.01	. 39	근 당·	-	2.79	5	2 C	158.96
(17)	50 40 11 50	7.20	5.91	2	21.5	3.63	77.	8.7	X 5	2 K	2.19	3.78	1.73	2.39	2.05	74.	3.2	9 2	0.76	1.32	21.42	2.57	:::	2.87	10,33	6.19	 	7.48	4 .69	7.78	ح.	·	e :	2	<u> </u>	246.77
0R(76) S	88.27 12.45	7.63	6.35	2	8.8	3.22	7. 7.	£	ō 7	;	2.40	6.03	1.8%	25	2.16	7.5	2 €	2 E	6.9	3.87	38.38	4.37	=	3.79	10.49	83	16.0	 	18.50	e 5	 	2	8 8	<u>ر</u> ر	1.01	285.95
9 (25) 0	09.34 15.39	3.36	7.83	\$9.9	12.25	.83	2:	٠ د د د د	2 2		2.97	4.92	2.24	E	2.62		٠ د د	3 55	0.97	9.10	38.88	6 .08	S.	68.4	12.23	6,43	89	æ: *:	6	18,01	冷.	7	8	20	6.52 6.53	345, 12
8 (7K) P	90.80 1 13.11																					٠												1		269.38
(32)	33.09																				•															355.20
JK(72) L	38.22																																٠.		11	563, 70
T (12)	29,93		•																															-		333.59
A(65) PG	7.45 2																							_					_)
13 (1934	56.62 S 7.56 S																													:					,	10 11 11
SDC(63) LSH	5.83															_													_	_				_		
HDH(61) SEC	201.52						•							-											٠.							٠.			/	
_ :	90.52 301 13.69 40																																			ij.
5) PTK[56																											١.			: -					7.5	
TAR(55	22.2																								•						 			Ė,		
SHR(54)	100.24 11.75	12.03	9.85	7.55	3	8	8	65/2	E. F.	2 t	2.5	13.43	. 6.92	7.52	3.3	2	13.49	8 °	***	3	15.47	1.75	2.61	2.60	7.80	5.96	÷	3.3	£.53	-8 -7	Q. 50	35.0	F	5	8 8 - 0	346.32
Xe I j	3KT(21) 89 (22)	SK (24)	1K (27)	P.T.(28)	S8 (31)	# (33)	E :	M (35)	100.190	Capta	200	2 45	PRE(42)	10 (C)	PM (45)	(0) (d)	BJH(51)	Contract	148(55)	PIXISSI	XON(61)	\$86(63)	(SH(64)	B(19)	S (71)	1JK(72)	(E)	()E) SC	P3 (75)	PBR(76)	SXX(77)	1 A	11 (22)	S	JAP (96)	TOTAL
,				٠													٠.																			

Distributed Outgoing Traffic from Si to Sj (2004) [1/2]

				1		Ų.			1																															
\$71(53)	55 52 53 53 53 53	2.35	: 33	*	6.85	38 33	\$ \$	7.37	6.77	7 %	92.0	1.75	3.21	7.05	3.39	33.55	3.67	2.33	Ξ Ξ	.	7.83	Σ.	2.	11.40	.3		1.83	8	38.7	3,49	2.11	3.65	2.8	2.8	5.08	Z. :	8.	— o ∷ ::	11	270.55
BUNISTO	35.95 98.35	.88	25.59	19.73	25 *	12.98	16:32	17.19	15.26	19.42	 S	97.7	×. ×.	9. 6	3.79	8.64	9.48	5.98	င်း	13.02	20.21	2.85	<u>7</u> .6	23.81	2.73	5.73	3.96	11.72	10, 13	7.10	5.58	7.13	5.83	5.63		2.11	2.37	2.67	11 11 11 11 11 11 11 11 11 11 11 11 11	580.34
1031103	13.6	1.63	7	87.9	6	13.07	5.6	5.78	6	7.70	6.3	3.57	6.67	11.22	6.98	7.86	6.61	0	6.63	2.21	7.78		2.91	10.16	5	59:	1.76	£.3	3.71	2.78	2.12	2.91	2.3	2.36	Š	2.53	1.97	 8. 5.	12 12 12 12 12 12 12 12 12 12 12 12 12 1	246.65
PAL ((5)	85.33 12.66	2.19	10.39	83. 83.	e 23	17.16	∺ ~	93.2	6.65	9 33	1.03	3.25	6.05	5 39	8 33	98 6	0	6.45	9.91	3.69	17.31	2.63	**	13.92	1.57	2.76	2.39	5.94	5.03	 33.	7.8	3.97	3.23	, o	70.	2.77	2.11	2.1	2222222	321.43
HD (63)	93.46	2.36	10.95	9.39	7.02	17.57	£.	7.76	6,76	89.6	1.07	3.8	7.69	13.35	6.51	0	9,76	7.39	 	3.27	3.53	5.46	33.	16.58	 8:	2.73	8:	6.63	8.8	4,17	3.33	1.63	3.73	3.65	æ. .×.	7.76	<u>:</u>	5. E.	***************************************	351.67
PRE (42)	76.65	2.04	36.6	8.33 55.	6.15	17.28	7.63	7.53	6.33	10.17	2	3.78	95.9	31.92	=	98.9	8.68	6.9	9.35	8.	10.96		3.63	11.78	¥.	6.	2.03	2.3	S. S.	3.2	2.5	3.62	2,76	2.58	3	2.2	 5:	 2. 52 5. 52	322222233	309.56
UP (C1)	159.82	3.	21.13	17.87	3.0	27.58	99.99	16.44	13.65	23.26	2.0%	8 83	14.28	e >	23	12.95	14.12	12.99	19.0%	6.28	19.90	3.05	7.34	24.05	2.74	 89	¢. 12	10.73	٠ ج	6.70	5.22	1.02	2.8	5.21	9	§1 *	3.49	~ ~ ~ ~	************	604.94
KP (39)	100.63	2.53	12.02	10.41	69.	20.18	9.05	9.18	1.72	12.80	 تخ	10.02	6	11.79	6.13	7.73	5.8	6.33	8.25	3.02	8.46	1.53	9.	15.17	1.73	2.48	5.65	9.46	5.71	=	3,16	3.	3.50	3.17	6.48	2.81	% %	8, - 8, %	*********	353.43
EHD(38)	5.72	23 :	6.85 88.	2.22	E3	18	33	5.36	5)	. 78.√	- 8	=	10 84	8	. 98	. 15	3.41	3.73	68.	1.3	£.92	8	2.25	8.15	0.93	1.33	<u>=</u>	3.5.	3.15	2.22	27.7	7.38	.9	2	æ m	1.46	<u>::</u>	1.45	**********	204, 49
\$80(37)	20.06	0.57	2,38	2.52	<u> </u>	5.5	2.78	2.55	8	5.02	co	- 8	1.69	3.3	1.25	- 15	1.07	1.93	2.01	0.09	1.71	0.3	0.83	2.81	9.32	0.45	9.48	3	.:	0.82	0.62	0.8¢	0.67	0.62		0.39	6.33	9 6	***********	77.09
DPR(36)	198.89	6.03	32.65	28.56	19.29	71.06	61.14	33.68	23.67	0	15.3	6.98	12.32	23,19	9.33	33.	8.70	 9.	18.95	6.72	14.65	2.44	2.95	26.38	3.03	77.5	÷.	12.78	11.83	8.05	6.04	8.9	6.6	5.89		3.16	2.83	£. 3	*********	737.47
MU (35)	214.74	Ř	% ∷	61 09	28.63	67.76	27.74	17.23	4	24 30	- 83	% •	7.63	13 97	5.98	6 72	6 18	65 *	15 28	6.17	11.07	8.		28.03	2.82	3.75	3.98	11.11	12.87	8. TB	5.95	7.58	90.08	5.64	5.3	2.22	2.03	2.43	*********	818.80
M. (34)	211.14	7.37	16.92	42.46	25.93	153.71	50.13	6	(6.72	34. 19	2.33	4.85	8.97	16.66	7.01	7.63	7.07	×.	17.32	99.9	12.49	2.11	7.9	25.29	2.95		7.7	13.23	12.67	8.21	6.03	7.87	6.31	5.8	. 87	2.26	2,30	2.74	*********	873.46
JR (33)	179.66 31.84	8.8	36.35	30.16	19.23	26.02	-	25	27.68	(5.26	2.56	8	9.93	16.83	8 %	7.32	6.87	5,26	16.30	8.	11.88	<u>.</u>	7.02	29.22	2.63	3,68	3.80	11.63	10,76	7,17	5,33	96.9	5,58	5.15	<u>.</u> .	2.46	2.20	2.60	********	121.12
\$8 (31)	(32.50 73.50	15.13	98.51	82.12	2. 2.	0	87.66	141.55	99.07	66.12	92.	9 85	10.17	35 03	14. 82	S	16 98	11 12	61 66	14 96	26.89	63.4	17.05	52.23	80.9	8.23	8.69	27.51	26.05	28 21	12.65	16.23	13.06	12, 18	10.02	5.30	7.7	5.66 2.45	*********	1,598.37
PUT (28)	323.73	20.35	73.84	91.99	-	×.	19.05	24.97	29.62	19.57	1.62	3.9	7.51	13.19	2.72	6.39	6.17	.53	1.33	6.17	11,09	1.97	8.87	28.79	3.42	63.4	6.70	17.37	18.68	10.89	7.58	9.41	7.52	6.93	 E.	2.32	2.10	2.56	# # # # # # # # # # # # # # # # # # #	939.36
(ZZ) XI.	334.23	%.%	23.38	0	65.79	87.18	:: &	= 33	% %	28 25	2.2%	5.2	0 63	17.62	7 58	& &	8 02	څ د	19,03	7.0	7,33	2.51	10.63	34, 18	4.03	5.33	5.63	19.63	19.83	12.17	8,68	10.96	8.77	B.09	3.	2.98	2.70	3.26	******	1,127,12
SH (24)	393.92	18.50	=	121.46	78.87	102.59	32.37	8 S	62,73	31.60	2.54	٠ د	11.28	20.22	8.8 8.	10.33	9.45	68 S	23.35	9. %	17.13	2,98	3.09	39.98	4.71	6.26	6.55	23.21	23.37	14.34	10.30	12.82	10,31	9.63	6.55	3.45	 :::	3.75	22222222	1,285,58
C\$N(23)	140.30	0	10.00	15.85	21.01	16.96	90.9	7.6	8.51	6.32	0.56	1.32	2.55	64.3	%	2.40	2.16	35.	% ~	2.19	 88.	0.70	3.33	10.60	1.27	\$	1.72	6.85	7.65	1.28	2.91	3.52	2,82	2.62	6	0.80	0.73	65 85 85 85 87 85		367.29
80 (Z)	.002.77	** \$2	81.62	83	7.38	8 9	26.5%	%	88 88	8	2.72	6.85	13.30	2 %	% 0.0	15 21	11.07	8 06	35	30 86	26 6	3.63	17.39	59.05	7.10	9.12	9.52	39.59	10.63	25.06	16.52	19.97	15.93	14.58	~	7.3	3.85	 E E	***************************************	1,937,32
JKT(21)	0 17%	116.22	351.08	293.28	249.32	101.65	152.24	180.48	181.56	177.61	15.66	42.25	8, 09	138.29	61.02	85.58	69.12	88.88	139.63	60.93	121.31	22.97	103.21	389.77	46.30	81.23	64.65	243.08	310.61	154.16	102.65	127.34	2E.38	91.47	52.20	28.30	26.38	은 왕 과 =	*****	5,890.53
Xe15	JKT(21)	CBN(23)	SZ 150	YK (27)	P.T.(28)	Se (31)	JR (33)		M (35)	DPR(36)	S5U(37)	18003	KP (39)	(१३) अ	PRE(42)	20 EEE	PAL (15)	1011(0)	B.M(51)	\$27(53)	SHR(5(1	148(55)	PTK(56)	(19))(CH	\$86(63)	(SM(64)	B(K (65)	PG (71)	1.1K(72)	17 (73)	13 (74)	P0 (75)	P8R(76)	Sm(77)	AB (91)	11 (92)	SQ4(95)	3AP (96)	*********	TOTAL
.: •																																								

TOTAL	23.53 23.53	272,76	998.01	669.33	682.65	831.61	769.63	31.6	97.09	118.17	505.11	25.5%	70.017	25.5	220.66	551 38	233 14	688.76	92.86	346.59	35.12	32.55	ž Š	269.39	2	723.07	88.03	76. SE	; ;	236.53	32.38	211.93	118.80	165,04	12.72	52.69	27,133
VRK (97)	20.07 6.	4-44	***		-		- 1																			1			٠.	· .	100		1.	- 1		i	i
JAP (96)	5.52	£.23	3.63	. 5. 5.	2.79	2.96	2.60	20.	8, 5	7,7	0 - 0 -	 	9,7	2 2	88	2.86	=	3.21	9.6	9.	7.05	0.79	<u></u>	1.23	2.67	2.28	<u>-</u>	5	ર.	.53	- EX	5.8	 S	1.93	6	1.69	138.10
501(95)	38.38 86.39	3.67	υ. υ.	2 C	2.13	2.60	2.27	× .	9 ;	≎ ÷			5 5	2 22	2.06	2.65	- 5	3.13	0.65	1 46	5.77	0.65	98	 	2.2	26	2	<u></u>	3	78	₹.	4.22	2.36	÷.	2.00	6.73	122.79
11 (92)	5.16	1.07	3.5	2.5	2.76	2.30	2.52	3.63	9.9	6	- F	, ,		2 97	2.64	3.10	1.17	3.88	0.81	1.65	6.25	9 !	=	2.	2.47	2.	:X	1.7	*	<u>.</u>	22.	7.	6	2.36	×.	9.0	138.65
AB (91)	2 8 7 2 8 7	· ;=	6.30	₹ 12 13 13 13 13 13 13 13 13 13 13 13 13 13	8	5.17	99 >	79.9		- · ·	7.0	2 2	ő	59 7	8.	5.27	1.97	6.19	7.	2.74	10.47	82 !				3.62	7.6	2.10	53	2.38	2.15	=	5	3.97	2.85	1.17	232.49
SICHETTI	113.72 16.71	10.67	8.52 52.53	. a	5.43	6.21	5.93	% S	3.	2 8	, , ,	5 K	2 5	8 8	2 12	5.92	2.69	5.56	1.12	6.43	22 01	3.85	. (5	~	22	S 1	e 2	<u>=</u> :	£	 28	-	2.15	7.7	8	 	0.57	360.00
PBR(76)	124.02	#.25 25.	5.6	1.83	5.78	છ.	82.9	6.80	a o i	٥, ٠	2 5	, o	7.03 1 B.	3.20	2.26	6.0%	2.88	5.70	: :	5.73	45.96	6, 6	5.9	5.65	5.2	8.5	2. 23.	11.11	27.00	~	£	2.33	8	61.	<u>.</u>	0.63	414.75
0 (75)	21.95	13.62	11.47	8 2	7.03	B 02	7 65	ස ස	e :	2 5	2 5	7 7	57	3 83	2.74	7.20	3.17	6.79	×.	6.53	8	6.93	9	1.2	1.53	12.00	12.5	= =	0	26.32	8. 8.	2.83	.5	₹.	.83	0.77	191.85
15(34)	18.98	11.44	9.6	2. 3. 30. 31.	5.63	6.69	6.27	6.53		8 8	, S	3.5	2.7	2 65	5 09	5.88 88.	5.66	%	- 8	5,9,	28.45	3.62	2	8	2 2 3	11.27	# 22	- ;	12.24	3 7	- 12	2.11	1.1	 E	 	χ Ξ	391.03
LT (73)	28.08	15.51	12.99	. S. S.	8	9.60	3.	8.69 5.69	80°	 		5 ;	٠ د د	3 7	2.59	7.30	3.27	6.50	1.28	6.62	36.45	8. 8.	£.65	53.	33.48	20.54	-	 	12.78	10.18	8.51 12.	2.61	¥.	<u></u>	1.6	69.0	513.98
TJK(72)	53.56	3.8	2 2 2 3 3	78.52	10.79	12.82	12.89	12.15	8 :	2.87	6		0 0	2	3.5	10 15	35	8 67	1.63	8 46	32.35	8	33	چ	× ×	-	8	2	26 ==	9.48	æ; €:	3.65	1.88	2.1	2,13	6.9	787.24
PG (71)	282.84 42.47 6.60	24.07	19.86	8.5	11.23	13.16	12.91	12.91	= :	æ ;	7.0	8. 2.	0.4	9 5	3.95	11.54	5.27	10, 13	3.6	3.38	13.77	×.	 	6,49	æ	28.85	32.05	25.05	11.11	14.47	₹.12	, 9 , 9	2.18	 8	2.45	1.03	757.97
BW(65)	79.82 10.83	7.21	6.10	2.0	. 6	4.45	÷.	2:	9	۲. د د	5 5 N	3 8	2 2	\$ \$ \$	1.72	11	1.78	£ 13	98.0	3.44	¥.57	=	12.65	~	3	2.3	9.	26.5	7.16	5.70	6.28	8.	1.03	0.98	1.2	0.52	275.45
(SH(64)	76.55 10.50 27.	6.96	8. S	3 5	3.8	1.28	8		¥ :	£ 5	7.5	27.	- c	8 8	1.63	8	~	3 %	0 83	3.63	59.55	£3.	6	12.79	٠ ج	5	5	2	1.75	6.03	<u>- 1</u>	≃-	0.97	8.0	1.16	0.48	281.78
SBG (63)	8.8. 5.9.	. S.	29.5	7.67	2.91	8.7	<u>~</u>	3.46	5.3	6.0	£;	<u>ب</u>	٠ ٢٠ ٢٠	3 3	. 38	3.02	1,32	2.91	0.59	2.67	45.66	~	6.79	بر بر	=	-	<u>-</u>	£ ;	6.77	6.3	ă.,	1.2	0.69	. 6.0	0.82	0.34	225.19
NDM(61)	425.2% 59.3%	38.86	22.22	8 8 8 8	3 6	23.59	22.16	24.97	2.39	, ce	2 i	2 2 2	2 5	2 2	, E	21 %	9 28	21.57	**	65 61	c	% %	25.06	£	=	83	27.32	2. 91	25.7	% 9:	28.08	9.50	5.15	1.76	6.88 88.9	2.53	308.06
PTK(56)	19.78																							٠.													;
TAR(55)	8.8 8.8	- 1																٠.			Ė.	- 1		: .	٠.	9.		. 5		e 1					٠.	_ i	
i	142.63	7.75 8.75	14.79	2 ≓ 2 ≓	1.85	12.56	11.00	¥.	 	<u>.</u>	ه. در د	× ×	e s	2 7	2	20.12	20	0	76 7		23.25	2.62	3.75	3.93	10 28	8.61	6.29	2	69.9	≅	2.28	×.	3.43	2.78	2.98	1.2	509.25
	JKT(21) 80 (22)						٠.		7								٠,٠		. ,						- , -		Ü	٠,٦		ā.	<u>.</u> ,	. :	Z.		_		
		ν,	- '	-	•		~								- "	-											1					; - 1	÷.			•	-

							٠.			30			:	-																			
КР (39	133.13349	3471	8029 7724		289	25.	2135	5.934	2.09034		567			8.34813												5.8212_	4.6305	•	5730	3.51938	3.96	ത	467.58789
END(38)	72.3681	1.87866								14.34132	13.0977			4.96125					10 78765		1.75959	1.86543				3.14874		. 2887	4.20714	1.33130	83	0.84672	270.54627
(75)¥82	. 🗤	0.754	ໍຕ	N.	- ((4)		1.37592		4.35267	1.65375		1.23039								8		1.56114	ဘဇ	? –:	88.	0.82026	e :	4530	S	0.22491	101.99007
0PR(36)	263.13147	9.0	7.78	'n	ກ •	ě v	S.		5.96673														9079	15.65109	9000	•	804	. 7924	. 1232	3.74409	3791	1.90512	975.67281
MN (35)	56.08197					55.48529			5.37138						20.21544	8.16291	14.64561	2.5137	31.79169	3.73086	5.01417	2655	17.37099			10.02834		7.46172	5.62275	2.58569	3.21489	1.38915	1083.2724
ML (34)	279.33822 51.74253							ഗ്ര	3.08259					7.06482														•	3.0	2000	6250	613	1155.5876
JR (33)	69018	r- u					36.62064	8789						6.95898									S	_ (71 67	- co	-	9	ωс	•	;	1.48	954.17406
SB (31)	572.1975	20.01699	109.04166	66.48075	. c	"	(Ξ,	13.03155	24.03891	16.34469	39.60686	10 81854	14.71176	51.84837	19.79208	35.57547	5.94027	60001 98	8.05707	10.94121	11.49687	36.39573	34.46415	16 73595	21.47229	17.27838	16.11414	13.25646	6 27102	7.4088	3.18843	2114.6435
PVT(28)	128.29479				٦,	40	!	ш,	5.17293		~,			- C.	٠.	_	14.67207	2.50631	38 08917	4.52466	5.94027	6.2181			= c	12.44943		$\overline{}$. 7285	7.00	'n	1.4553	1242.7733
	442.18629	ြက်လ	0707750		n c		77.87178		2.96352 6.89283			10.02834		7.85862						5.33169		~		တေ		14.50008		10.70307	7.4088	3 5721	4.31298	1.8522	1491.1798
SH (24		24.4755	160.69158	93.76101	133.12531	59.535	82.99179	41.8068	3.36042 7.85862	14.89698	27.14796	11.72178	13.00550	9.11547	30.89205	13.17708	22.66299	3.94254	52 86708	6.23133	8.28198	8.66565	30.70683	9385	18.97182		13.64013			4.00430	. "	2.1168	1700.8223
CBN(23)	185,6169	0000	0.96955	7.79623	13808	10.06803	11.25873	8.36136	0.71442	3.37365	5.94027	2.59308	201100	2,06388	6.56208	2.89737	_	0.9261	14 0023	1.68021	2.16972		.0625	10.12095	CEO9.	.6569	3.73086	-	1.97127	1,0584	1.17747	ဝ	485.92467
80 (22)	1326.6647	50.72382	91.16793	102.34728	105.05168	47.97198	تا	4	ന ന :	· •	င္က	e i	2 -	0	33	7	26.3277	4.80249	78 10002	9,3933				64.91961		26.42031	0753	. 2893	10.37232	5.59629 5.00048	2577	6724	2563.0744
JKT(21)	0 1223.087	75906		36516	1830	238.77504	240.20388	228.36303	55,89675	111.25107	182.95767	80.72946	103.38354	67.31424	184.73049	80.61039	160.49313	30.38931	50.04000 615 68571	. 50		85.53195	2	9	203.95368	168.47082	CP.	1.0148	080	36 90074	5.134	139	7793.1712
	JKT(21) B0 (22)	CBN(23)	YK (27)	PUT(28)	- 10 - 10 - 10 - 10 - 10 - 10 - 10 - 10	(34) (34)	_KI (35)	DPR(36)	END(38)	KP (39)	_';	36	10	XD1(40)	\sim	SPT(53)	SMR(54)	DAK(SS)	MON(61)	SBG(63)	LSM(64)	BNA(65)			2.5	PD (75)		SN.	ဘာဗ	SON(95)	o	MRK(97	15 17 14 18 18 18 18 18 18 18
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SPT(53)_	10.00584 17.18577 17.18577 15.24096 11.95992 9.06255 23.85369 8.70534 9.75051 10.9988	32203320	.082 .932 .359 .760 5.08 5.08	2.47401 7.77924 6.58654 4.61727 3.66471 3.75435 3.71763 2.72538 1.52145	350 27
(13)H(81)	218.21562 35.2524 36.426278 32.53257 26.10279 19.1835 56.86254 21.59136 23.13927 23.13927 23.13927 23.13927 23.13927	. 9005 . 7692 . 7455 . 6291 . 6307	2254 7378 7705 7705 5006 5006	239 239 339 332 713 713 628	3.13551 3.53241 1.48176
KD1(40)	85.21443 2.15649 2.15649 10.27971 8.7318 6.49593 17.29161 7.46172 7.46172 17.6914 6.50916	8554 8244 8130 8130 2345 2345 7450	2003 2003 7202 7203 721 721 721 721 721	3.28 3.20 3.57 3.57 3.57 3.67 3.67 3.67 3.67 3.67 3.67 3.67 3.6	.045 .045
PAL(45)	112.89159 1.6.6698 2.89737 113.74597 111.48364 8.62596 22.70268 9.44622 9.44622 9.86958 8.8335 11.36269	. 2997 . 0041 . 9640 . 0205 2 . 965	240-2-408		817 151 151
H0 (43)	130.26258 13.2228 13.2228 12.25098 9.28746 23.24511 10.26648 8.34348 11.26648	.0406 .1738 .6620 .6127	.5233 .3262 .23806 .23806 .0196 .9353 .4607	3.8367 8.77149 7.4088 5.51691 4.40559 6.12549 4.58479 11.298435	. 5643 . 5643 . 7860 . 2594
PRE(42)	101.40795 15.37326 13.12416. 11.04705 8.13645 22.86144 9.82989 9.82989 9.82989 9.82989 13.45491	2301 2301 2301 2190	82828888	6.8724 6.8724 5.953 5.953 .3604 .5246 .6514 .8449	.3152 .4078 .0054 .5478
UP (41)	211.44186 32.34736 27.95499 23.64201 17.25192 49.71834 49.71834 21.80304 21.75012 18.05895 3.91608	.6820 .8924 .8565 .1328	1834 1839 3084 327 0351 7108 8181 1464	4 4 9 9 9 9 9 9	.6172 .8818 .0771
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R(76)SKN(72)	1966年1987年1986年1988年1987年1987年1987年198日 - 1986年198日 - 1987年198日 - 1987年198年198日 - 1987年198日 - 1987年198日 - 1987年198年198日 - 1987年198日 - 1987年198年198日 - 1987年198年198年198日 - 1987年198年198日 - 1987年198年198年198日 - 1987年198年198年198年198年198年198年198年198年198年198	7738 601.06538
PD_(75)PB	253.49932 25.49932 25.1029291 19.15061 19.15061 19.15061 11.737471 12.735943 13.824503 13.824503 13.824503 13.824503 13.824503 13.824503 13.824503 13.824503 13.824503 13.824503 14.5747752 17.7303684 17.7303684 17.7303684 17.7303684 17.7303684 17.7303684 17.7303684 17.7303684 17.7303684 17.7303684 17.7303684 17.7303684 17.7303684 17.7303684 17.7303684 17.7303684 17.7303684 17.730488 17.7303684 17.7303684 17.7303684 17.7303684 17.7303684 17.7303684 17.7303684 17.730416 17.730416 17.730416 17.730416 17.730416	826.21443 692.47738
3)3B(74)	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	37 652.87385
(72)(3	312.9 46.82 46.82 12.12 11.25 14.09 14.09 14.09 16.06	.3964 858.15437
P.G_C(7.1)TJK	23702 613 23702 613 2538 47.5 2538 24.3 2538 24.3 2538 24.3 2538 24.3 2538 24.3 254872 20.2 254872 20.2 25855 9.4 25855 1.6 200227 5.7 200227 5.7 20	5.5264 1314
BNA(65)	105.60186 472.7 2.31525 11.09.60 2.31525 11.09 8.0703 33.7 8.0703 33.7 8.0703 33.7 13.17708 49.66 5.25231 18.8 5.49455 21.59 6.98755 21.59 6.98755 21.59 7.45512 10.4 2.41954 8.72 2.37472 9.34 2.37472 10.8 3.6250 10.8 3.6250 10.8 6.0858 1.97 6.0858 6.59 6.0858 6.59 6.0858 6.59 1.3778 3.2 1.3778 3.2 2.3749 16.9 6.0858 6.59 6.0858 6.3 6.0858	364.42035 126
		376,76394
(69)505	11.20842 11.20842 11.20842 6.11226 6.11226 7.5338 4.11453 4.57758 0.43659 1.24362 1.24362 1.24362 1.24362 1.24362 1.24362 1.24362 1.24362 1.24362 1.24363 1.3897 1.	297.92637
MDN.CG	72.5528 72.5528 35.5528 35.5528 35.5537 31.6539 31.6539 31.6539 31.6539 31.6530 31.6530 31.6530 31.6530 31.6530 31.6530 31.6531 31.6530 31.653	4 1730.5634
PTKKS	26. 4443 26. 4589 19. 0378 11. 05875 11. 05875 11. 05875 11. 05875 11. 05875 11. 25871 12. 3812 12. 1587 13. 4457 14. 5511 15. 9289 11. 2587 11. 2588 11. 25	1 508.2701
TAR(5	1000 100 100 100 100 100 100 100 100 10	5 149.7239
SWR	23.74788 5.00091 19.56717 19.56717 19.56717 10.7288 11.57398	673.7377
Xe i j	# # # # # # # # # # # # # # # # # # #	TOTAL

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TOTAL		043.406	558.073	40.2150	683.861	152.667		209 145	03.1459	100.2	018.220	1995	89.5238	35.7189	40.7839	84.9623	68.8788	12.7154	19.623	.9331	729.369	38.4442	16.6294	21.7953	58.5385	791.500	54.7436	37,1533	29.9429	55.1398	56.6216	19.2830	462.83832	1404.41	02.1181	27.8052	80.4363	157-172	8.9678	62.3585	69.70	35897.60	
		.5526	3.413	5821	.6195	249	۲.	.0880	63	.852	6140	2887	.2513	.9128	.0903	.4872	.1113	.077	.2965	1377	.7463	.6747	.9051	.3836	.9922	.2468	.4762	101	.7673	.6272	.4023	0451		- 0	. 9393	e i	719	3	.0054	- 417		85 83624	0000
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SON(95)		åG	204	58	.8554	.1109	1487	.6998	.2678	3.439	.0032	. 2997	. 1762	. 7860	.8836	.2787	4343	. 1254	.0032	.7253	.5050	.3362	. 1409	.8599	.9315	6337	.8599	.2700	3626	.9767	<u>ي</u>	83	1.49499	7	. 15334	23	2830	. 222		ŏ	965	162.45117	
		.5595	.826	.1642	.3846	5775	\mathbf{g}	.6229	.6514	.836	3330	.8024	0.529	9712	. 1145	.3371	.0032	. 4042	.9293	.4927	4.103	5479	.1067	0716	.1829	.2687	.926	20	25.	2678	2.778	.0638	1.64052	700	£	6934	2		. 122	0638	0.793	183,43395	
AB (91)	:	.783	1.880	037	.446	.0	6.08	. 280	≊.	.836	300	8	.992	.035	.830	1.51	~	78	. 53	562	.97.	.806	.188	.63	.62	8	.561	.288	٠ ١		ö	(n)	2.7783	3 :	7	8		5.46399	i S	2	1.5479	307.58427	
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ξ.	168.01446 24.493413 47.2241538 20.01446 17.386805 17.386805 17.380805 15.110115 15.327167 15.327167 16.729653 10.23769 10.23769 10.23769 10.23534 10.23534 10.752391 1
END(38)	2242629 2242629 225410 226410 226410 226410 226410 226410 226410 226525 227522 22752 22752 22752 22752 22752 22752 22752 22752 22752 22752 22752 22752 22752 22752 22752 22752 22752 22752
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DPR(36)	201192 17192 17192 1719364 1719364 1719364 1719364 171937
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Ħ	55.5283 55.29873 70.883957 70.883957 70.883957 71.723954 77.084513 77.084513 77.084513 77.084513 77.084513 77.084513 77.084513 77.084513 77.084513 77.084513 77.084513 77.084513 77.084513 77.084513 77.084513 77.084513 77.084513 77.084513 77.084513 77.0861313 77.08651
X	259.96501 56.83.160892 57.160892 50.355993 160.31749 84.2742426 8.1811674 4.2742426 8.1811674 10.0098806 11.620597 10.0098806 11.2221662 11.386849 87822328 87822328 12.221662 11.522328 12.221662 13.8325 13.8325 13.965138 8.8991066 8.5985739 1.620597 9.3165131 8.5985739 1.1020597
2	722.11325 722.11325 722.11325 164.47486 137.61057 83.898707 16.35942 23.3556 110.89656 7.8472422 16.445816 26.747053 25.010997 18.566241 66.45816 26.547053 26.547053 27.010997 18.566241 16.445816 26.547053 27.010997 18.566241 19.377053 27.010997 28.467123 27.0109803 27.0120769 27.0120769 27.0120769 27.0120769 27.0120769 27.0120769 27.0120769 27.0120769 27.0120769 27.0120769 27.0120769 27.0120769 27.0120769 27.0120769 27.0120769 27.0120769 27.0120769
∾.	540.50802 33.976869 33.976869 110.48246 91.02801 81.806375 43.467322 32.677321 22.022367 9.5020237 10.301592 7.5634658 23.959133 10.301592 7.5634658 23.959133 10.301592 7.496207 7.496207 7.496207 7.496207 11.555588 11.88514 12.555765 11.570508 3.8735323 3.8735323 3.8735323 3.873533
YK (27)	558.0391 7.20.88905 7.20.88905 7.55799 8.65205 8.65205 8.65205 8.755799 7.759825 7.759825 7.759825 7.759825 7.759835 7.75856
SM (242 YK	657-69907 558-0391 140.96552 120.8892 30.888081 24.97605 202.79277
- 1	234,24853 71,259638 26,463572 28,316857 10,017756 112,705854 112,705854 112,705854 112,705854 112,705854 113,70535 2,5046160 2,6046160 2,6046160 2,6046160 2,6046160 1,486938 1,772639
80 (22	1.0
JK1(21)	1543.5356 194:04393 586:1725 586:1725 586:1738 586:1738 586:1338 587:2738 588:1941 588:
Xelj	SE (22) SE (22) SE (22) SE (23) VX (24) VX (24) VX (24) SE (31) SE (31) SE (31) SE (32) VE (42) VE (42) VE (43) VE

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ds.	22 0340	2) 688447	10360		09341	43693	0.10335	3.98613	2.30514	1.30336	2.62237	.168738	.921845	5.45967	1.77086	.326106	.943868	1275	.890228	23.892348		07317	2.0536	.531788	9.03373	.187210	00532	.122200		.314737	.826994	4.62486	.760209	417	.691649	53	8	29	903373	20	451.73401
8.11(51)	775 28	84 8795	8 114383	41.056103	32,94172	24 20957	71.76052	27 24829	29.20175	25.47849	32.42413	3.088808	7.44653	13.59075	32:49092	14.67601	14.42556	15.828	9.98436	 . 3	21.73853	33.74314	4.758434	15.26038	39.75379	4.55807	6.3278825	6.61171	19.568	16.91331	11.85434	9.316513	11.90443	9,733919	8.398994	8.364826	4.62486	3.957013	45790	1.86998	5 968.95075
K01(40)	107 5408	7 7 1 1 2	2 721490	12, 972994	11.01953	8.197863	21 82201	9.416690	9.650438	8.214559	12.8561	1.536055	6.127527	11.13640	23.74208	11.65398	13,1232	11.03622		10.68560	3.790	12.9896	2,253995	4.858611	16.93000	1.920069	2.7548	2.938541	7.179391	6.194312	4.507990	3.539607	4.858611	3.906924	3.606392	8.448307	4.224153	9 3.289163	1 3.138896	6 1.319004	9 411.8132
PAL (45)	162 469	21 037	3 65648	17 3474	14.4923	10.8859	28.6507	11.921	12.455	10.7690	15.5609	1.71971	5.42628	10 1012	25, 1946	3078	16.362		10.7690	9	5.8269	28.901	4,4579	7.2461	23.241	2.6213	3.7733	3.9904	9.9175	8.3982	6.1442	4.9087	6.6284	5.392	5.075	7.7136	4.624	4 3.522910	7 3.556303	1 1.452574	8 536.6
MO (43)	164 2912	7000 66	3 940317	2	15.46073	11.72077	29.33532	12.3218	12.95629	11.28667	16.1619	1.786499	6.361275	12.83942	22.28950	10.86926	₹ 	15.79466	12.3385	3 14	5.4596	1 19.284	1. 4.107	1.7.59679	1 27 6823	3 3.10550	7 4.5580	5 4.84191	2 11.069	7 9.34990	2.6.96234	5 5.55985	9 7:73036	8 6.2277	1 5.76020	9 14.2586	9 12.9562	5 6.962340	3 5.760209	8 2.25399	2 587.1573
PRE(42)	127 9768	19 70:05	3,40603	9	13.94137	10.268	28.85113	12,40532	12.57228	10.56873	16.98009	2.036943	6.311186	10.75239	53.29446		11.45363	14.15842	11.55381	15.61100	5.159144	18.29910	2.721490	6.060742	19.66819	2.237298	3.188985	3.372644	8.682055	7.51331	5.409588	4.2408	5.710120	4.608167	4.307635	6.74528	3.589695	2.921845	3.038719	1.268915	6 516.8494
	9058 9	82235	179391	35.279197	9.83621	1.77192	2.74454	7.51543	7.44865	2.79039	8.83550	4.94209	4.74279	.84225		9.0369	1.6216	3.5751	1.6884	31.789679	0.4852	3.2255	.09238	2.2550	0.1545	.57477	48/	.8788	9150	5.6610	1.1864	.71544	1.7207	.45008	8.7989	3.523	.9790:	.82699	16091	.62131	1010.023
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ZKN(77.	50.45156.	3.5721	14.11641	11.66886.	9.75051	7 10200	2 21583	7.84539	8.41428	0.7938	2.19618	7 50141	3.37365	4 7628	4.04838	2.80476	3 55007	7.35588	1.48176	8.50689	42.34923	•	5.88735	5.70213	19.96407	1.5.01	14.77791	4.94	15.32034		7.84445	1.44207	1.79928	0.79411
	164.07846	3.78378	14.88375	12.44943		12.62008		8.32167	8.9964	0.84672	2.36817	7 02/77		5.08032	4.2336	2.98998	7.99092	7 5411	1.50822		60.80508		7.81893	7.47495	20,13505	, "	14.77791	35.721	0	15.06897	3.08239	1.57437	1.9845	0.83349
	200.87109	4.60404	18.01926	15.17481	12.68757	23. (0:08	7		10.95444	1.03194	σr	0 57859	.4.28652		5.06709	Θ,	9.5256		1.79528	8.63919	.3845	11.80116	9.790	9.53883	81761.57	5904	15.49233		-34.82136	14.34132	3 7771	.01835	2.42109	1.01871
J8_(74)_	169.22493	3.969	15.13512.		10.67661		8 58627				٠- ‹	7 43526		.6040		• •	7.11924	.0012	1.40238	7.85862	37.63935	28	5.31846	٦,	31.2228	2	0	16.19352	-15.05574 -	14.80437	1 50703	1.41561	1.75959	0. (4088
	247.94343	5.64921	20.55942	17.18577	14.97635	6) 101.07		1261	11.23227		2.79153			5.62275		3.42657	9.65/B	8.5005	1.66098	8.75826	57	•	5.08735		14.20404		17.34453	•	. 13.46814	11.25873	1 90512	1.73313	2.16972	18718.0
	486.42741	9.93573	-32.62518	27.24057	25.03116	0.00.130	16.96086	17.05347	16.07445	~	3.79701 7.4740E		5.62275			۳, ۰	13.42845	4	-	_		\sim		.5678	38.83005	26.46	14,1561	15.77016	12.54204	11.21904	7 48724	2.27556		
(17) 21	374.19732	8.7318	31.84461	26.24832	22.86144	: .	٠ <u>٢</u>	~	-1		4 20714		•	8.57304			5 26 (42 c 07221					~	8.48043	•	0 33031 00	42.40215	53	7	3	18.68076	20717.0	2.61954	3.24135	#979¢.1
BWA(65)	133.26955	2.9218455	12.038003	1847	21 80867 81	6 6284152	7.4298357	6.9289479	7.9975085	0.768028	4 5747752	7.3463544	3.3058595		3.9904061	2.8717567	0.3177916	6.8955554	1 4358784	1351	74.415231	6216	21.120769	0 401000	11.40/02/	• •	6.5950227	12.45541.	9.5168682	7.1459993.	1.7197148	1.602841	2.0703362	0.0064053
LSH(64).	127.74309	2.8383642	11.620597	8000	15 995017	8 3612751	7.1459993	6.678504	~	٠ -	4 3203313	7.0124292	3.1555931	4.7751304	3.8234435	2.7214904	7 888453	64511	38	726	Š	7.6468871		71050517	8 5085739		6.7285928	12.939602	10.067845	7.4632282	1.6195372	026	1.9367662	
	100.92889		3.1495505	1135/21	19 32184	1 8586117	5.5097658	5.1925369	5.776906	14				3.3893408			2032703		m	4579014	5123	0	7.9975085	2011017		3623404	6.3278825	16.312246	11.553812	6.745289	1.1520419	.0685606	5676728	. !!!
MON(61)	709.94167	5.995017	34.881666	74 - 030 103	6 88 306519	34.91188	39.386477	36.998912	41.690561	3.9904061	23.090928	37.917206	17.080274	1492	20.5364	14.592531	15.985017	36.013833	7.4131394	32.541011		63.712928	86.887337	100000	19.788247	15.614182	11.590384	87.0543	68.43797	16.883098	3.5985739	7.9474198	4.2241538	200-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-
	212.57678	5.6767284	24 025918	202263	32.607798	12.238359	13.991466	13.340312	14.208517	3357008	6.9456442		9605648		7.2461768	15 04/070	1143824	4.208517	2.7381866	0	~	.2241538	5500321	- ~	726101	11.219887	3174009	286672	3.6504383	4 558079	2.571224	2.2706914	2.7047941	
TAR(55)		.3357008	5.1442237	0060218	9.6504383	3.8902286	4.174085	3.7065697	.8920042	0.5008878	2.955238	1108312	3.0053268	7751304	5.008878	5765508		.7172233	0	.0721118	.4156906	U218644 F26676	1 200000	1.0	1889857	.3875652	.9534624	.6380091	.1538175	7.2705918	4024858	1.1353457	1.2021307 2 3.4841915 1	:
SMR(54)		6.3111863	29.969787	18 61622	48.986827	9.768372			12.1		3.874592		17.130363	19.033736	21.515436		11.837648						6 5610860 6 5616909								•		4.9754855 1 2.0369437 0	
Xeij	JKT(21) BD (22)			76 (20)			ML (34)	MN (35)					PRE(42)	NO (43)	PAL(45)	KOI(4U)	SPT(53)	SMR(54)	TAR(55) 1	PTK(56)	MDN(61)	S8G(63)	(101/101)	DIEK (03)	T 1K(72)	1,7 (73), 1	JB (74)						JAP(96) 4	11:

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	1412.77	228.288	5513	125,033	1833.26	476.267	2787.9415	139.770	388.477	.994	7.889	0169	4772	56, 2692).622	65, 5251	58.7069	91.7048	68 4196	4648	89.256	816.04	53.7057	6756	50.87	21.4864	25.4874	16.3880	1205.3865	207.258	5352	84.1019	[15.44]	6	39.830	53.910	98.351	377	204	725
1 1 1 1 1 1 1 1	3.509394	.3076351	7346354	3058595	8383642	170513	159144	203906	337476	036943	2.88845	.317228	152041	638006	138896	402485	621312	.636233	.435878	203906	.851509	.404261	.484191	.252219	.359499	.601065	84901	.968383	2.05364	69803	19004	35168	2250	185434	.051864	70513	.051864	58915	.088808	0
1.	2.07775	.216335	2752	.06251	060742	4.62486	0.98613	658258	94209	.341027	.077438	.651154	.370868	.309410	51985	.055415	.127527	.639784	.138896	.775130	.853284	.359499	. 101953	.771579	.77086	9004	970158	2.12042	5	.806/4/	. 855060	2533335	0) / 667-	. 587920	.304083	.841915	2.50443	8982		2.8216679
	23655	.830545	.335700	127527	. 225929	.973709	7223	123976	.341027	3.79005	.426284	.601065	. 253905	.908700	1807	.072311	.730368	3.79005	.439429	424508	.686322	.225929	.085256	.43765	.63374	85258	1.60284	.719714	3.7566585	189607.	. 38 / 303	100000	1051.00	.13(12)	.936766	.045821	.946317		3.339252	1882
1	62.5441	.615270	69270	.795377	77690	.374420	88596	.608167	841915	.207457	.060742	.667850	487742	. 192536	997508	3.79005	4.39217	.958789	.407812	.175840	.953462	.444756	52397	.754882	0.43516	168738	.719714	890089	4.1239762	17000	970700	005100	0.11000	0.75.60	31121	.346354		940317	2.6046166	S) Inn
	8.258	9932	5712	921	.1847	.68027	19.284	6464	.63196	82	0529	522	09235	.2198	5257	6785	763	76376	.2813	8.7989	.28916	0.3349	03694	.57477	7.4809	.97015	2.8884	08880	6.0281255	70770	2000	12000.	3000	15055 15055	SORRC.	1	885555	28415	4. (58434)	23402
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	XP (39)	206.15375 30.053418 5.1830361 24.624546 21.32625 15.753973 41.341376 18.540111 18.540111 18.540111 18.540111 15.858109 15.85862 12.558109 12.558109 12.558109 12.558109 12.558109 12.558109 13.25862 12.558109 13.25882 12.558109 13.25882 13.25882 13.25882 13.25882 13.25882 13.25882 13.25882 13.25882 13.25882 13.25882 13.23184 13.23184 13.23184 13.23184 13.23184 13.23184 13.23184 13.23184 13.23184 13.23184 13.23184 13.23184 13.23184 13.23184 13.23184 13.23188 13	724.04769
	END(38)	112.06012 2.9090582 14.033123 12.127896 8.8705727 24.255792 11.021635 11.021635 11.021635 11.021635 2.171549 2.171549 7.823666 10.017806	418.
	\$84(37)	41.09554 6.5761058 6.5761058 6.5761058 5.1625504 11.451848 5.6951945 5.6951945 5.6951945 6.284128 10.284128 10.284128 10.284128 10.284128 10.284128 10.284128 10.284128 10.284128 10.284128 10.284128 10.284128 10.28501 10.28501 10.28501 10.28501 10.28501 10.28501 10.288775 10.288775 10.288775 10.288775 10.288775 10.288775 10.288775 10.288775 10.288775 10.288775 10.288775 10.288775 10.288775 10.288775 10.288775 10.288775 10.288775 10.288775 10.288877	157.92897
1/4]	DPR(36)	10. 145224 10. 145224 58. 508904 58. 508904 10. 523475 10. 523409 10. 523908 10. 5239135 11. 299445 12. 29945 13. 13. 12. 16. 286617 14. 36904 15. 286617 16. 286617 17. 9296599 16. 286617 17. 9296599 16. 286617 17. 9296599 16. 286617 17. 9296599 16. 286617 17. 9296599 16. 286617 17. 9296599 16. 49148 16. 49148 16. 49148 17. 5783249 16. 49148 17. 5783249 18. 389049 19. 17258 19. 17258 10. 49148 10. 49148 10. 66168 10. 678698 10. 678698	1510.804
019)	NN (35)	433.92.92304 135.47597 125.15087 125.15087 125.15087 12.60054 12.60054 12.60054 13.76891 12.60054 13.76891 13.76891 12.60054 12.60054 12.60054 12.60054 12.60054 13.76891 13.76891 13.76891 13.76891 13.76891 13.76891 13.76891 13.76891 14.7643119 15.528625 16.757802 17.7643119 17.7643119 18.7668223 19.7668223 11.5623 11.5623 11.5	1677.4191
Sj (2	ව	15. 54797 15. 098419 16. 121771 86. 943904 314. 89509 102. 69788 102. 69788 102. 69788 103. 69221 14. 483322 14. 483322 15. 631055 16. 266131 16. 122727 16. 942179 16. 122727 16. 942179 17. 926862 16. 942179 16. 12727 17. 926862 18. 926863 19. 926863 10. 12727 10. 12727 10. 12727 11. 926862 11. 926863 12. 926863 13. 926863 14. 11. 11. 11. 11. 11. 11. 11. 11. 11.	1789.3973
m Si to	JR (33)	358.05706 69.735403 61.786714 39.39576 196.70956 103.59927 103.59927 10.39528 12.321044 5.244956 10.39528 13.371664 10.7758 13.371664 14.39528 13.371664 14.39528 14.37777 14.38138 14.381362 16.39535 16.39535 16.39535 16.39535 16.39535 16.39535 16.39535 16.39535 16.369884 16.369884 16.369884 16.3696325 5.0396325 5.0396325 5.0396325 5.0396325	1477.5137
ic from	SB (31)	886.03295 163.11201 20.995789 201.81065 168.84818 102.94371 172.83373 182.47157 136.07008 9.628562 20.178016 37.23627 30.688494 22.786718 30.688494 30.68723 30.688494 31.983536 34.92916 17.476163 17.476163 17.476163 17.476163 17.476163 17.876178 17.876183 17.876183 17.876183 17.876183 17.876183 17.876183 17.876183 17.876183 17.876183 17.876183 17.876183 17.876183 18.97231 18.972114 19.857745 10.857745 11.47233	3274,4705
g Traff	PVT(28)	363.20335 117.6896437 117.6896433 135.53743 111.69137 23.1026422 23.1026422 23.1026422 23.1026422 23.1026422 23.1026422 23.2524434 11.115068 12.640054 23.2534623 23.253623 16.2524 16.2524 17.11358 23.253623 16.2524 16.2524 16.2524 16.2524 17.252 18.171358 22.309593 16.2524 17.252 18.277619 18.277619 19.277619 19.277619 19.277619 19.277619 19.277619 19.277619 19.277619 19.277619 19.277619 19.277619 19.277619 19.277619 19.277619	924
utgoin	VK (27)	384, 71387 384, 71387 386, 677521 385, 676624 387, 710896 387, 87388 387, 710896 387, 87388 387, 87388	2309.0531
Distributed Outgoing	SN (24)	806. 90076 172. 90592 37. 899673 145. 18649 66. 314 189 66. 314 189 66. 314 189 5. 203523 12. 16868 23. 06758 47. 03791 14. 115087 21. 141873 21. 141873 21. 141873 22. 141873 19. 359564 14. 115088 20. 104366 35. 093051 6. 1049207 26. 1649207 26. 1649207 27. 1069207 27.	3.67
Distri	CBN(23)	287.42204 37.432575 32.470803 32.470803 34.74783 34.74783 37.7433851 12.201787 12.201787 12.201787 12.201787 12.201787 12.3017838 3.1358645 3.1358645 3.1358645 3.1358645 3.1358645 3.1358645 3.1358645 3.135865021 1.4015317 1.4015317 3.359755 3.359755 3.359755 3.359755 3.359755 3.359755 3.359757 3.359757 3.359757 3.359757 3.359757 3.359757 3.359757 3.359757	752.4417
	BD (22)	2054.3058 8.544516 67.20927 41.17117 158.4821 64.21827 64.17517 74.553256 75.5722766 75.5722766 76.589834 76.589834 76.589834 76.589834 76.589834 76.589834 76.589834 76.589834 76.589835 76.588835 76.58883 76.588835 76.588835 76.588835 76.588835 76.588835 76.588835 76.58883 76.58	3968.859
		1893.9185 238.09181 600.82253 600.82253 1557.30692 331.8836 331.8836 331.8836 331.8836 351.61421 32.081563 353.61421 32.081563 172.26939 172.26939 172.26939 172.26939 173.26939 173.26939 17.057056 173.5606 173.	067.523
	Xei.]	KT (21) KT (
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SPT(53)	:	62.0057	26.611718	4.814283	23.6002	18.51962	14.03312	36.93681	13.47999	15.09841	13.86923	15.48765	1.434041	3.585104	6.699023	14.44284	6.535133	7.293126	7.518476	4.773310	29.31591	٠.	16.04078	2.519816	10.46850	23.35439	2.683706	3.68753	m	12.04595	10.20218	7 119722	5.674702	1.06///	5.818112	5.756053	4.22018	2.355	2.02814	2.335	0.9833	554.27763
DJM(51)	1	37.9012		.95634	0.375	0.4194	9.7051	8.0501	33.433	5.8305	1.2621	9.7844	78996	13689	6.6758	.8663	8.0074	7.7001	.4210	12.2508		26,67317	41.40283	5.838598	18.72448	48.77790	5.592762	7 764311	8 1125792	24.00995	20.75263	14.54528	11.43136	14.6067	11.9435	11.53379	.10.26364	5.67470	4.855255	5.4698	2.294466	1188.9026
XDI.C		.9523	27761	339268	2.	.52096	05877	.77560	.55427	84108	.07926	.77445	384740	518476	.66436	=	.29944	5.1022	54145	•	13.1112	4.65039	15.938	2.7656	5.96151	20.7731	2.35592	3.38024	က (8.809	7.60042	5,53	7 34305	5.3615	4.7937	4.42504	10.3660	5.1830	≍	.851426	18418	505.29486
<u>ټ</u>	;	74.809	8127	.48650	1.2852	7.7823	3.3570	35.154	4.6272	5.282	.2136	9.033	2.110	.65805	2.3942	ĕ	7.0650	20.075		13.21367	20.30193	7.149722	35.46180	5.46984	8.89105	28.51694	3.216350	4.629906	1.8962283	12.16886	10.30461	7.538962	6.022975	8.133065	6.617078	6.227838	9.464675	5.674708	4.322611	635	823	658.4915
10 (43)		1.7082	28.20965	.834769	.43251	8.97032	14.3813	5.99444	5.11889	5.89737	3.84874	9.83074	192035	.805284	5.75397	922	.33658	0	0.3800	13938	7.84357	.699023	3.86168	5.039632	9.321271	33 96630	3.810453	5.592762	ر ا	13.58242	11.47233	8.542791	6. K21941	9.485.6	7.64138	7.067777	.4953	5.89737	42793	ຮຸ	.76565	720.4421
PRE(42)		157.027	23,80509	4.179207	20.3224	17.1060	12.59908	35.40034	15.22132	15.42619	12.96783	20.83457	2.499329	7.743825	13.19318	65.39230	:	14.05360	17.3723	14.17652	19.1547	6.330270	22, 4529	3.3392	7.4365	24, 132	2.7451	3.9128	4.1382348	10.652	9.2	6.6375	5.203		5.6542	5.2854	8.276469	4.404556	3.585104	3.728508	1.556959	634.17424
UP (41)		7.4122	.0890	.809113	28757	6.60903	26.7143	6.98755	3.76144	3.67949	7.96381	7.65115	.063948	8.08941	.25445		0.16829	6.52977	8.92667	6.61171	9.00593	2.8654(7877	.248324	5.0369	2695	61324	7 9691	8.4403501	3818	19.216	7258	0.6938	4.381	5952	. 79628	59391	.56327	43	9448	.216350	1239.2989
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	하게 된다. 대한 화나의 하셨다면 하고 있는데 아름이 하는 것은 사람이 하는데	
(2Z)HXZ	23.2.97033 24.2.97033 25.531304 18.068926 18.068926 17.124067 17.124067 12.148382 12.148382 13.029294 13.029294 13.029294 13.029294 13.029294 13.029294 13.029294 13.029294 13.029294 13.029299 13.0292968 13.0292968 13.0292968 13.0292968 13.0292968 13.029299 13.029299 13.029299 13.029299 13.029299 13.029309 13.029299 13.029299 13.029299 13.029299 13.029299 13.029299 13.029299 13.029299 13.029299 13.029299 14.00559 14.00559 15.00559 16.00559 1	737.5072
£BR(76)	254.07123 5.815901 5.815908 5.815908 3.6122727 3.012727 7.340993 7.340993 7.340993 7.340993 7.340993 7.340993 7.340993 7.340993 7.3340993 7.3340993 7.3340993 7.3340993 7.3340993 7.3340993 7.3340993 7.3340993 7.3340993 7.336098 7.33608 7.	849.66975
PD_(75)	25.55.55.55.55.55.55.55.55.55.55.55.55.5	1013.7651
JB. (74)_	2.0404 882334 441509 441509 991939 8245153 8245153 824516 824517 82434 82434 82337 82434 82337 8	801.07622
LT(73)	23.23.23.23.23.23.23.23.23.23.23.23.23.2	1052.9554
TJK(72).	\$	1612.7643
PG (71)	73482 73482 73482 7388433 73886433 7388643 7388643 7388643 73886 73886 73886 73886 73886 73886 73886 73886 73886 73886 73886 73886 73886	1552.8009
BNA(65)	163.52173 3.5851044 14.77063 10.185675 20.404366 8.130655 8.130655 8.130655 8.130655 8.130655 8.130655 8.130655 9.812943 9.812943 9.812943 1.0562896 6.1663796 6.1663796 6.1663796 1.0562895 8.4613328 8.4613328 8.4613328 8.4613328 8.761327 10.7758 10.7758 11.677197 11.677197 11.677197 11.677197 11.677197 11.677197 11.677197 11.677197 11.677197 11.677197	564.29544
_LSN(64)	156.74077 3.4826729 14.258472 19.045951 19.045951 19.045951 19.045951 19.052845 19.022845 19.022845 19.022846 19.022846 19.022846 19.022846 19.022846 19.022846 19.022846 19.022846 19.022846 19.022846 10.00000000000000000000000000000000000	583,40917
SBG(63).	123.83975 2.8066246 11.226498 3.866246 15.226498 15.118898 15.118898 15.118898 16.760483 17.637132 17.637132 17.63713 17.637	461.33124
MDN(G1)	871.09843 121.64711 19.652886 79.609805 67.03121 108.3521 10.83521 4.8962283 14.07096 51.157319 17.905036 45.337665 51.157319 17.905036 47.188973 17.905036 47.188973 10.6161076 81.056179 81.056179 82.025886 10.616179 83.02786 10.616179 83.02786 10.616179 84.07582 83.07386 10.616179 84.07582 83.07386 10.616179 84.07582 83.07386 10.55045 10.5504 10.550	2679.7324
	260.83171 26.52923 6.9653457 29.479802 23.579744 19.175187 10.009765 17.167529 16.388503 17.433851 17.433851 17.433851 17.433851 17.433851 2.869049 2.8690538 2.8690538 2.8690538 2.8690505 17.433851 17.433851 17.433851 17.433851 17.433851 17.433851 17.433851 17.433851 17.433851 17.433851 2.869026 11.841088 13.766801 12.04551 12.04551 13.766801 13.766801 13.766801 13.766801 13.766801 13.766801 13.766801 13.766801 13.766801 13.766801 13.766801 13.766801 13.766801 13.7768801	787.0431
TAR(55)	65.166955 6.485162 1.6389049 7.5389625 6.2483249 4.743108 6.024891 6.024891 6.024891 7.4979898 3.687536 3.687536 6.145893 3.687536 6.145893 3.687536 1.9266859 1.926854 1.9266859 1.9266859 1.9266859 1.9266859 1.9268	231.84358
SHR(54)	292.19625 44.188973 30.239256 30.239256 30.239256 22.842237 24.255792 30.627035 30.627035 30.627035 30.627035 30.627035 30.627035 30.627035 30.627035 30.627035 41.636138 41.63673 10.120238 11.226408 11.226408 11.226408 11.226408 11.226408 10.7758 11.226408 10.7758 10.7758 10.7758 10.7758 10.7758 10.7758 10.7758 10.7758	1043.2654
Xei j	JKT(21) SD (22) SN (24) VK (27) VK (27) VK (27) VK (27) JK (33) JK (34) JK (33) JK (34) JK (34	

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ANNEX IV CONDITIONS OF SEA AND CABLE ROUTE

1. Data on Earthquake

- 1-1 Indonesia Earthquake Map
- 1-2 Earthquake Map, Makassar Strait
- 1-3 Sea Bottom Condition at Makassar Strait
- 1-4 Indonesia Chronological Record of Earthquake

2. Data on Submarine Oil Field

2-1 Oil Development Area around Balikpapan

3. Data on Mine

- 3-1 Unswept Area of Mine
- 3-2 Mine Danger Area

4. Data on Meteorology

- 4-1 Banjarmasin, Balikpapan, Ujung Pandang
- 4-2 Average Location of Wind Distribution and Tropical Wave

5. Cross Section of Sea Bottom

- 5-1 Cross Section (Plan-1A)
- 5-2 Cross Section (Plan-1B)
- 5-3 Cross Section (Plan-1C)
- 5-4 Cross Section (Plan-2)

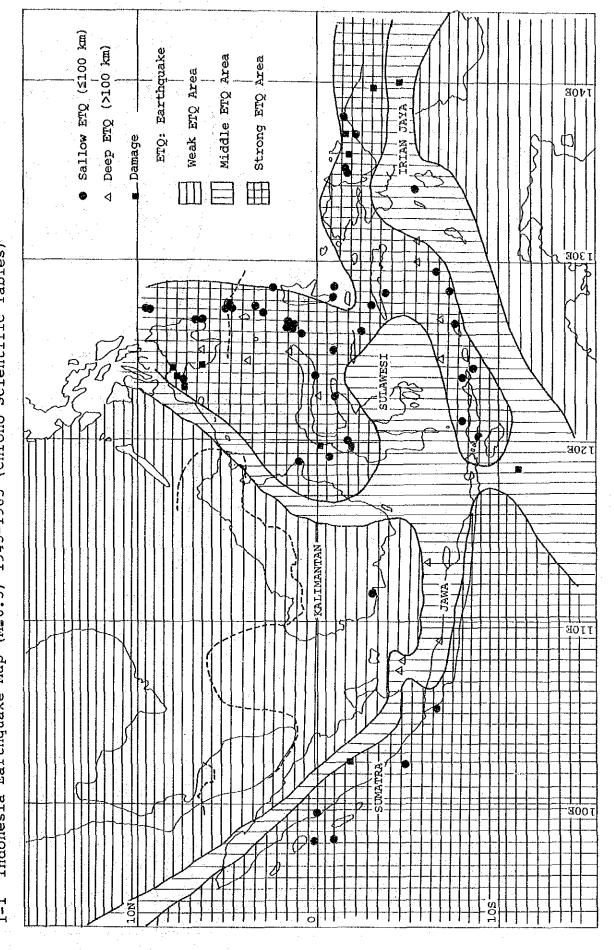
6. Location of Planned Cable Route

- 6-1 Location of Plan-1A
- 6-2 Location of Plan-1B
- 6-3 Location of Plan-1C
- 6-4 Location of Plan-2

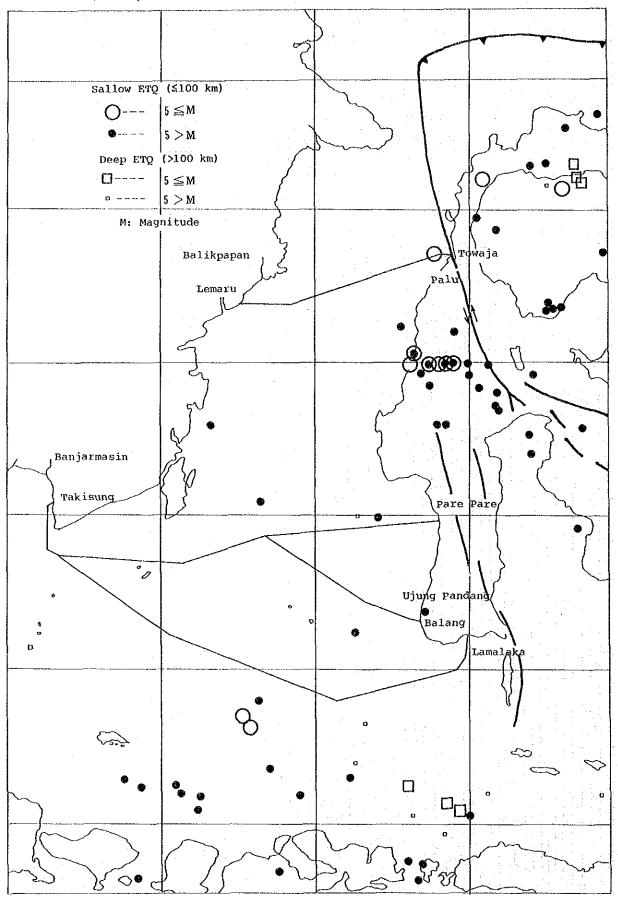
7. Submarine Cable Landing Point

- 7-1 Takisung Cable Landing Point
- 7-2 Lamalaka Cable Landing Point
- 7-3 Balang Cable Landing Point
- 7-4 Bojo Cable Landing Point
- 7-5 Lemaru Cable Landing Point
- 7-6 Towaja Cable Landing Point

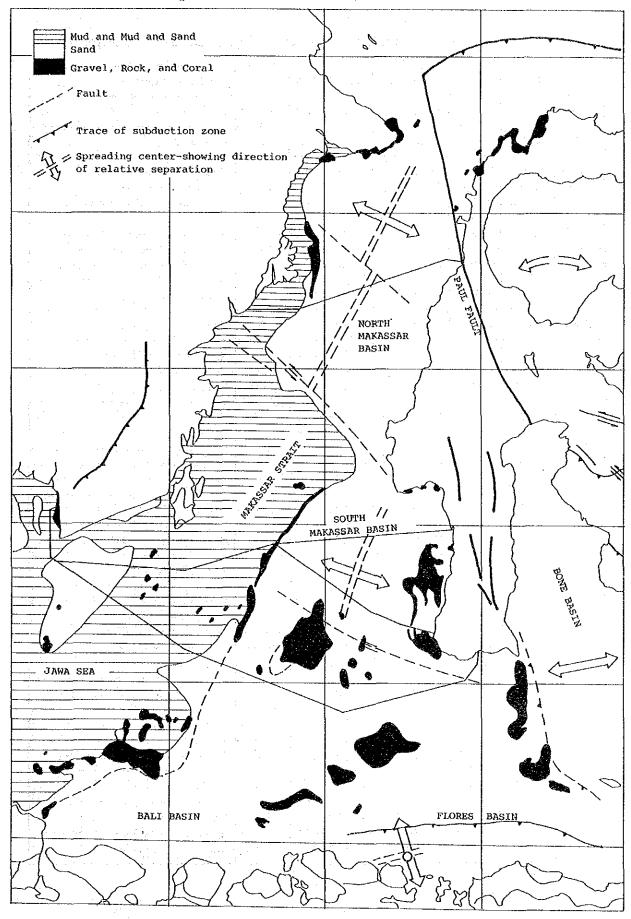
Indonesia Earthquake Map (M26.5) 1945-1985 (Chrono Scientific Tables) Data on Earthquake



1-2 Earthquake Map, Makassar Strait (1985, 1986 BALAY WILAYAH IV)



1-3 Sea Bottom Condition at Makassar Strait (K.O. Emery et al., rev. 1972)



1-4 (1/4) Indonesia Chronological Record of Earthquake

Year	Date	М	Latitude	Longitude	Depth	Area/Damage
1945	5 9	7.0	S 8	E 123 1/2		
	10 16	7.1	s 3/4	Е 125	50	Banda Sea
1946	5 8	7.1	0	E 99 1/2	S	Southern Sumatra
	5 16	7.0	s 1	E 98		Southwest of Sumatra
1947	4 2	7.4	s 1 1/2	E 138	S	West New Guinea region
	5 27	7 1/2	s 1 1/2	E 135 1/4	S	West New Guinea region
	6 12	7.2	N 1 1/2	E 126 1/2	40	Molucca Passage
1948	1 28	7.2	N 1 1/2	E 126 1/2	80	Molucca Passage
	2 9	7.2	0	E 122 1/2	160	Northern Sulawesi
	3 1	7.9	s 3	E 127 1/2	60	Ceram Sea
	3 13	7.1	N 1 1/2	E 126 1/2	60	Molucca Passage
1949	1 23	7.1	s 9	E 94	100	South Indian Ocean
	3 27	7.0	N 3 1/2	E 127 1/2	S	Talaud Is.
	4 23	7.1	N 8	E 121	80	Florles Sea
	4 30	7.4	N 6 1/2	E 125	130	Mindanao, Philippines Is.
	9 14	7.2	N 3/4	E 126	50	Molucca Psssage
1950	8 31	7	N 5 1/2	E 126		Mindanao, Philippines Is.
	10 8	7.6	s 3 3/4	E 128 1/4	S	Ceram: Tidal Wave
	11 2	8.1	s 6 1/2	E 129 1/2	60	Banda Sea
1951	3 19	7.8	N 9 1/2	E 127 1/4		Philippines Is. region
1952	2 14	7 1/4	s 7 1/2	E 126 1/2	s	Banda Sea
	3 19	7 3/4	N 9 1/2	E 127 1/4	S	Philippines Is. region
1953	6 25	7.1	s 8.5	E 124	50	Timor
1954	2 20	7.0	s 6.8	E 124.5	580	Banda Sea
	7 3	7.0	s 6.5	E 105.3	80	Sunda Strait

1-4 (2/4) Indonesia Chronological Record of Earthquake

Year	Date	M	Latitude	Longitude	Depth	Area/Damage
1955	3 22	7.1	S 8.5	E 92	S	South Indian Ocean
	3 31	7.6	N 8	E 124	s	Mindanao, Philippines Is. Ilagan - Dead 432
	5 17	7.3	N 7	E 94	ន	Nicobar Is. region
1956	7 18	7.5	s 5.5	E 130	190	Banda Sea
1957	3 23	7.3	s 5.5	E 131	150	Banda Sea
	4 16	7.3	s 4.5	E 107.5	600	Jawa Sea
	6 22	7.3	s 1.5	E 137	S	West New Guinea region Big damage at Geelvink
	8 9	7	S 2	E 137		West New Guinea region
1958	8 15	7.0	N 1.5	E 125	-170	Molucca Passage
1959	3 1	7.0	s 0.5	E 134.5	100	West New Guinea region
1960	_	-	oe.	-	æ	
1961	3 28	7	N 0.2	E 123.6	83	Northern Sulawesi
1962	5 15	7.2	s 7.3	E 128.3	34	Banđa Sea
1963	4 16	7.0	s 0.8	E 128		Halmahera
	12 15	7.1	s 4.8	E 108	650	Jawa Sea
1964	1 4	6.7	s 1.9	E 102.3	33	Sumatra: Dead 110 Injury 479
,	4 23	7.2	s 5.3	Е 134	33	Aru Is. region
	7 8	6.5	s 5.5	Е 129.8	165	Banda Sea
	11 16	6.7	N 1	E 118.8	33	Borneo
1965	1 17	6.5	S 6.8	E 109.1	113	Jawa
	1 24	6.6	s 2.4	E 126	6	Ceram Sea
1966	4 23	7	s 0.9	E 122.4	45	Northern Sulawesi
	9 8	7	N 2.4	E 128.4	96	Halmahera

1-4 (3/4) Indonesia Chronological Record of Earthquake

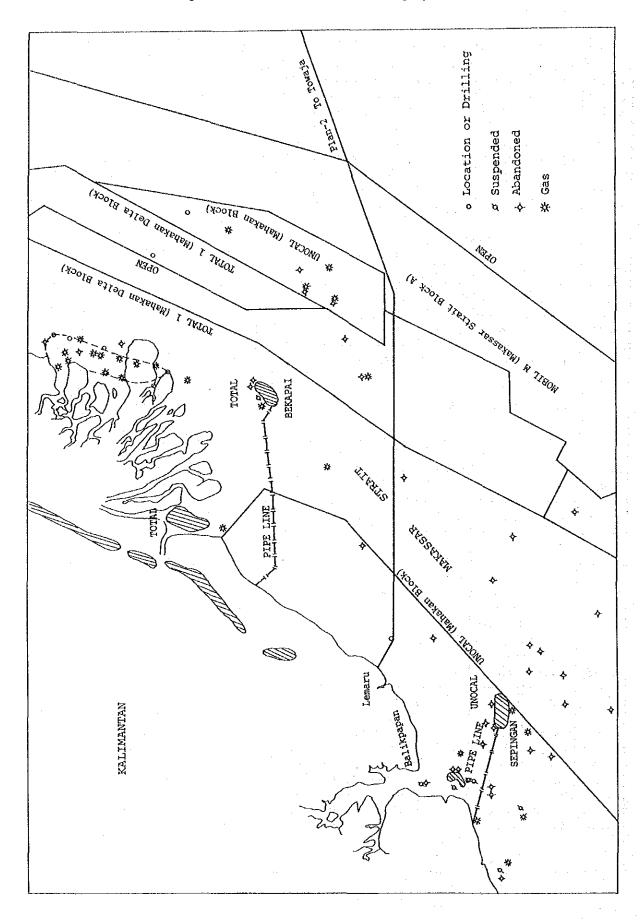
Year	Date	М	Latitude	Longitude	Depth	Area/Damage
1967	3 24	7.2	s 6	Е 112.3	600	Jawa Sea
1968	1 26	7	s 8.8	Е 120.4	29	Flores Is. region
	4 7	7.0	s 1.8	E 120.1	20	Sulawesi
	8 10	7 1/2	N 1.4	E 126.2	33	Molucca Passage
	8 14	7 3/4	N 0.2	E 119.8	23	Northern Sulawesi Tidal Wave: Dead 200
1969	1 30	7.2	n 4.8	Е 127.4	70	Talaud Is.
	2 3	7	N 4.9	E 127.4	N	Talaud Is.
	2 11	7	s 6.7	E 126.8	450	Banda Sea
	3 27	7.0	N 4.8	E 127.5	32	Talaud Is.
	8 5	7.2	N 1.3	E 126.2	34	Molucca Passage
	8 11	7.0	N 1.7	E 126.5	34	Molucca Passage
	11 21	7.5	N 2.1	E 94.6	20	Off W.Coast of Northern Sumatra
1970	1 10	7.3	N 6.8	E 126.7	73	Mindanao, Philippines Is.
1971	1 10	8.1	s 3.1	E 139.7	N	West New Guinea Genjem drift round
1972	6 11	7.5	N 3.9	E 124.3	325	Sulawesi Sea
	7 2	7.3	N 6.5	E 126.6	N	Mindanao, Philippines Is. Tidal Wave: Yap 18 cm, Okinawa 50 cm
1973		EM	-	•	-	
1974	-	***	-		-	
1975	7 10	7.0	N 6.5	E 126.6	86	Mindanao, Philippines Is.
	10 1	7.0	s 4.9	E 102.2	N	Southern Sumatra
1976	8 16	7.7	N 6.3	E 124.0	33	Mindanao, Philippines Is. Dead: 5000 to 8000 Tidal Wave Big damage at Moro

1-4 (4/4) Indonesia Chronological Record of Earthquake

Year	Date	М	Latitude	Longitude	Depth	Area/Damage
1976	8 17	7.1	N 7.2	E 122.9	22	Mindanao, Philippines Is. Damage
	10 29	7.2	s 4.5	E 139.9	33	West Irian: dead 133
1977	8 19	8.0	s 11.1	E 118.5	33	South of Sumbawa Is. Dead about 190 Unidentified 89 Tidal Wave at Sumbawa 10m Australia Northern Coast 6m
1978	7 12	7.1	N 7.3	E 123.4	33	Mindanao, Philippines Is.
1979	4 10	7.2	N 3.0	E 127.0	20	Molucca Passage
	9 12	7.7	s 1.7	E 135.9	33	West Irian: Dead 15, Yapan damage Biak & Yapan: Tidal Wave
1980	-	_	-	-	-	
1981	-	_	_	_	-	
1982	. •	_	_	-	_	
1983	4 4	6.6	N 5.7	E 94.7	79	Northern Sumatra
	11 24	7.1	s 7.5	E 128.2	179	Banda Sea
1984	3 5	6.5	N 8.1	E 123.8	649	Mindanao, Philippines Is.
	6 17	7.4	N 0.2	E 98.0	33	Northern Sumatra
	11 17	7.1	S 1.6	Е 134.9		West Irian region
1985	1 21	6.6	s 1.0	E 128.5	33	Halmahera
	3 2	6.7	s 2.0	E 119.7	44	Sulawesi
	3 18	6.5	N 7.8	E 123.5	33	Mindaiao, Philippines Is. Dead 2
: .	4 13	6.6	N 1.6	Е 126.4	51	Molucca Passage
	11 17	6.9	s 1.6	Е 134.9	10	West Irian region

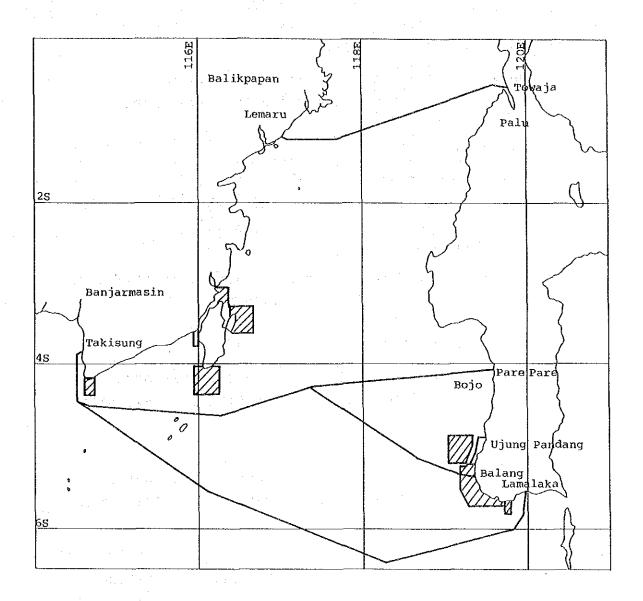
2. Data on Submarine Oil Field

2-1 Oil Development Area around Balikpapan



3. Data on Mine

3-1 Unswept Mine Area



3-2 Mine Danger Area (Data from Indonesian Navy)

(1) Kalimantan

- 1) Tg. Selatan Area
 Unswept Area: Latitude 4°10'S., 4°22'S.
 Longitude 114°36'E., 114°45'E.
- 2) Pulau Laut Area
 Unswept Area: Latitude 4°03'00"S., 4°21'00"S.
 Longitude 116°13'51"E., 115°57'51"E.
- 3) Slt. Laut Area
 Unswept Area: Latitude 115°51'51"E., 116°01'51"E.
 Longitude 3°48'00"S.
- 4) Slt. Laut Area
 Unswept Area: Latitude 3°03'00"S., 3°19'00"S.
 Longitude 116°06'51"E., 116°21'51"E.
- 5) Pulau Laut Area

 Unswept Area: Latitude 3°18'00"S., 3°39'00"S.

 Longitude 116°22'51"E., 116°40'51"E.
- Onswept Area: Round Area of the Center Latitude
 2°35'25"S. and Longitude 116°35'25"E.

7) Balikpapan Area

- A) a. 1°15'20"S. 116°46'53"E.
 - b. 1°17'35"S. 116°46'57"E.
 - c. 1°17'50"S. 116°47'19"E.
 - d. 1°18'35"S. 116°47'40"E.
 - e. 1°19'40"S. -- 116°48'40"E.
 - f. 1°23'50"S. 116°45'40"E.
 - g. 1°24'50"S. 116°46'00"E.
 - h. from g point to seashore with 335°
- B) a. 1°15'10"S. 116°55'55"E.
 - b. 1°19'15"S. 116°55'55"E.
 - c. 1°19'18"S. 116°54'38"E.
 - d. 1°19'35"S. 116°52'42"E.
 - e. 1°19'30"S. 116°49'50"E.
 - f. 1°18'20"S. 116°48'50"E.
 - g. 1°18'00"S. 116°48'38"E.
 - h. 1°17'25"S. 116°49'15"E.
 - i. 1°16'30"S. 116°48'10"E.
 - j. 1°16'25"S. 116°48'22"E.
- C) Unswept Area: Round Area of the Center Latitude 1°19'05"S. and Longitude 116°57'22"E.

(2) Sulawesi Area

- 1) Pare Pare Area
 - A) a. Tg. Lero
 - b. Barialai East Cape
 - c. Kq. Batu Tate West Seashore
 - d. 0.3 km North far from Kg. Batu Tete

- B) a. East Boundary: Seashore
 - b. South Boundary: Latitude line through South
 End of Taka Tallange
 - c. West Boundary: Line between West point of Take Tallange and East point of Kg. Batu Laubang
 - d. North Boundary: Longitude line through Kg. Batu Laubang

2) Ujung Pandang

- A) a. 5°11'00"S. 119°01'51"E.
 - b. 4°52'00"S. 119°01'51"E.
 - c. 4°52'00"S. -- 119°21'12"E.
 - d. 4°52'15"S. 119°21'59"E.
 - e. 4°52'48"S. 119°22'10"E.
 - f. 4°59'25"S. -- 119°20'02"E.
 - g. 5°00'30"S. 119°19'45"E.
 - h. 5°00'30"S. 119°19'49"E.
 - i. 5°03'51"S. -- 119°19'49"E.
 - j. 5°06'59"s. 119°21'20"E.
 - k. 5°06'59"S. 119°15'44"E.
 - 1. 5°11'00"S. --- 119°11'40"E.
- B) a. 5°06'53"S. 119°24'25"E.
 - b. 5°06'56"S. 119°23'35"E.
 - c. 5°07'37"S. 119°22'32"E.
 - d. 5°03'30"S. 119°20'40"E.
 - e. 5°01'00"S. 119°20'42"E.
 - f. 4°59'51"S. 119°20'50"E.
 - g. 5°00'00"S. 119°21'00"E.
 - h. 4°52'27"S. 119°22'42"E.
 - i. 4°52'46"S. 119°23'38"E.
 - j. 4°52'00"s. 119°25'02"E.
 - k. 4°52'00"S. 119°25'51"E.
 - 1. from j 119°26'51"E. longitude to seashore

- c) a. 5°11'00"s. 119°12'21"E.
 - b. 5°07'27"S. 119°15'55"E.
 - c. 5°07'30"S. -- 119°18'09"E.
 - d. 5°10'00"S. 119°15'42"E.
 - e. 5°10'30"S. 119°13'40"E.
 - f. 5°11'00"S. 119°12'55"E.
- D) a. 5°11'00"S. 119°15'40"E.
 - b. 5°10'50"S. 119°16'26"E.
 - c. 5°07'28"S. 119°19'30"E.
 - d. 5°07'32"S. -- 119°21'34"E.
 - e. 5°08'30"S. -- 119°21'34"E.
 - f. 5°08'29"S. 119°22'55"E.
 - q. 5°08'04"S. 119°23'01"E.
 - h. 5°08'04"S. 119°24'08"E.
 - i. 5°11'00"S. 119°23'22"E.
- E) a. 5°08'04"S. 119°23'01"E.
 - b. 5°07'19"S. 119°23'13"E.
 - c. 5°08'07"S. 119°23'25"E.
- 3) Ujung Pandang West, and Tana Keke Str., Laigang and Malasoro Areas
 - a. 5°11'00"S. 119°23'22"E.
 - b. 5°11'00"S. 119°15'40"E.
 - c. 5°11'42"S. 119°11'48"E.
 - d. 5°11'00"S. -- 119°12'55"E.
 - e. 5°11'00"S. 119°12'21"E.
 - f. 5°11'46"S. -- 119°11'40"E.
 - g. 5°12'02"S. 119°09'51"E.
 - h. 5°31'00"s. 119°09'51"E.
 - i. 5°42'12"S. 119°14'51"E.
 - i. 5°42'12"S. --- 119°40'41"E.

4) Jeneponto Area

Unswept Area: Latitude 5°49'00"S.

Longitude 119°41'51"E., 119°45'51"E.

Data on Meteorology

1 (1/3) Banjarmasin Meteorology (3°26'S., 114°45'E.)

Average Sea Surface: 20m (1936-1965)

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Very few ++ Lowest Temperature + Highest Temperature G.T. = Grand Total ** Yearly Low Average E.V. = Extreme Value * Yearly High Average Av. = Average

4-1 (2/3) Balikpapan Meteorology (1°16'S., 116°54'E.)

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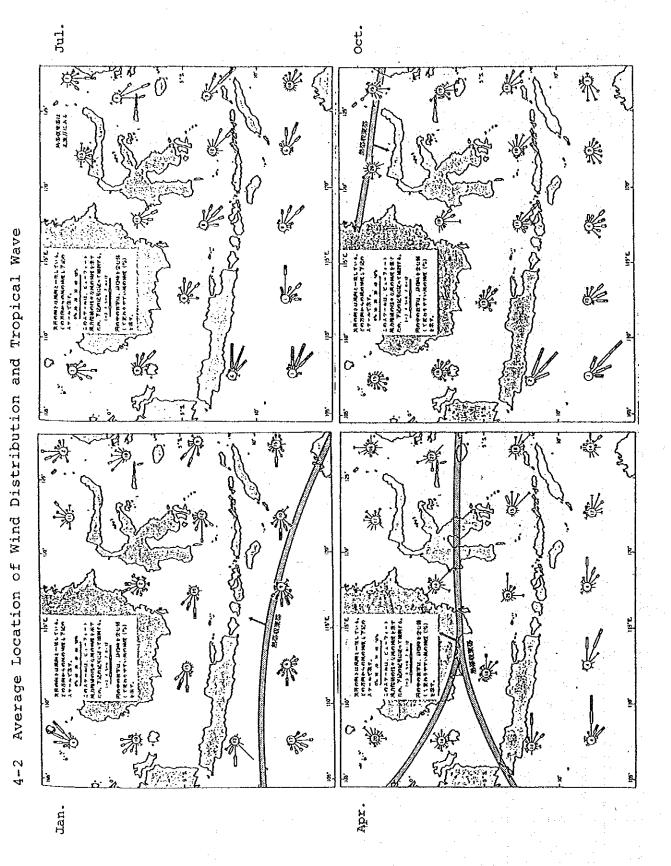
+ Highest Temperature ++ Lowest Temperature \$\psi \text{Very few}

Ujung Pandang Meteorology (5°04'S., 119°33'E.) 4-1 (3/3)

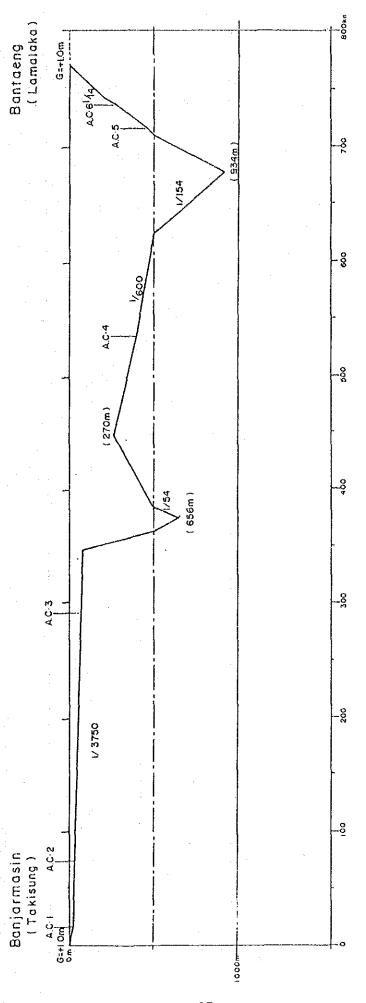
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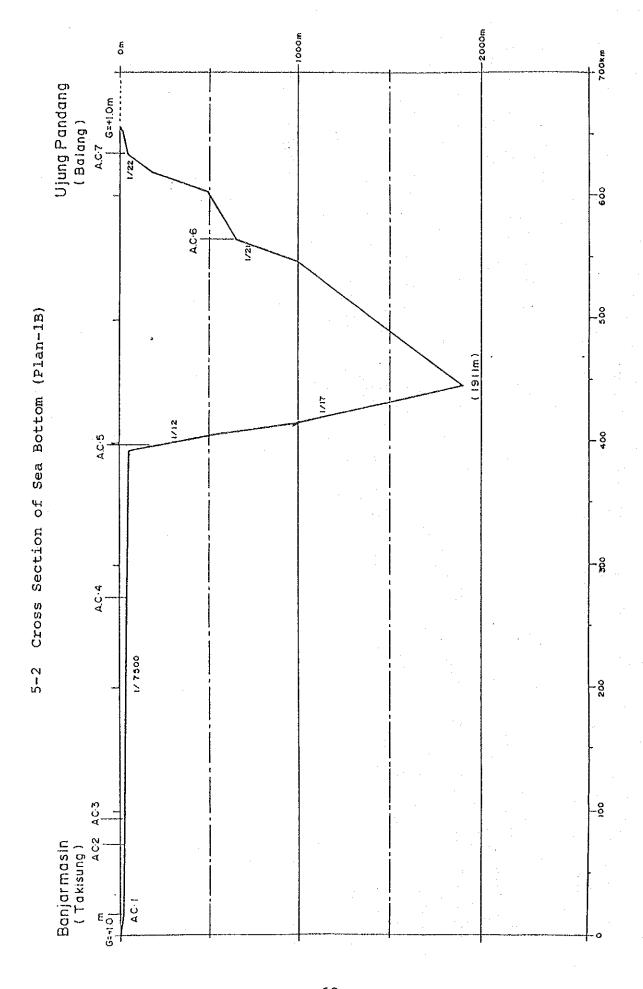
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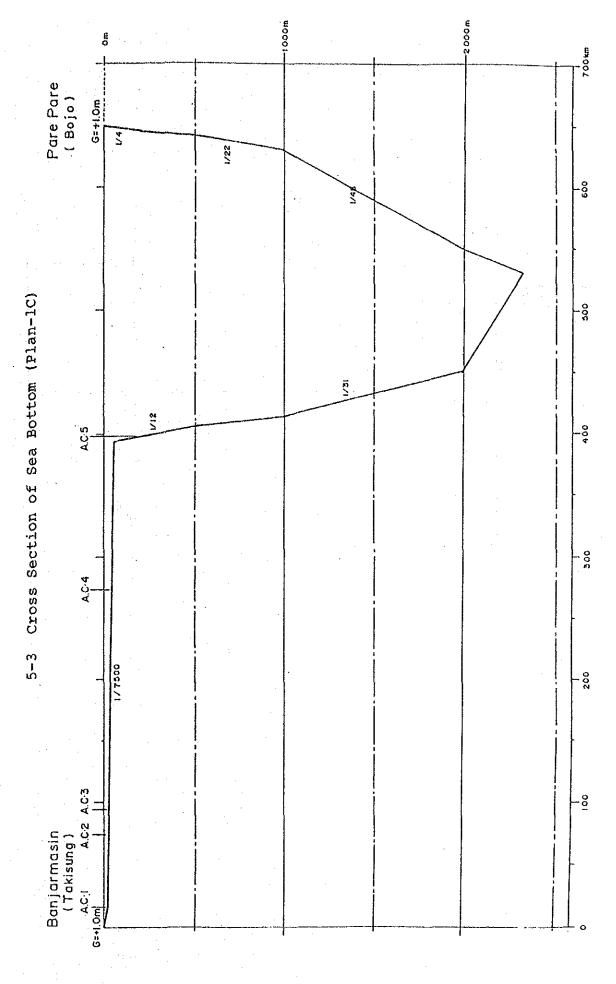
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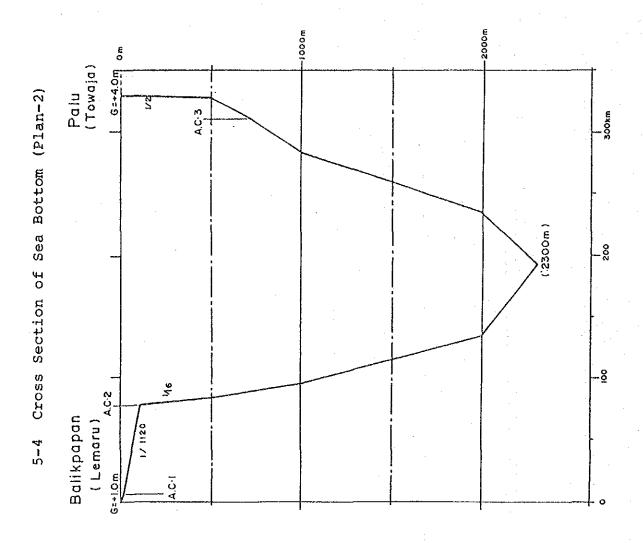


Cross Section of Sea Bottom (Plan-1A) Cross Section of Sea Bottom 5-1 'n.









6. Location of Planned Cable Route

6-1 Position List on the Proposed Cable Route (Plan-1A) Banjarmasin - Bantaeng

Pos.No.	Posit	ion	D41 ()	Dista	ance (km)
L.P.A/S	Latitude(S)	Longi tude (E)	Depth(m)	Be tween	Cumulation
Takisung L.P	3 - 52.4	114 - 36.7	G=+I.Om		0
_	3 - 56.8	114 - 28.9	20	17	(9.18 nm) 17
2	4-28.0	114 - 29.0	27	57	(39.96)
3	5 - 35.0	116 - 05.8	60	218	(157.67) 292
	5 - 48.5	116-415	200	60	(190.06) 352
	5 - 50.5	116 - 470	500	10	(195.46) 362
	5 - 52.8	116 - 53.7	656	13	(202.48) 375
	5 - 54.7	116-58.0	500	9	(207.34) 384
4	6 - 22.6	118-14.8	400	150	(288.34) 534
	6-11.5	119-02.0	500	89	(336,39) 623
	6-05.0	119-29.3	9 34	53	(365,01) 676
	6-01.0	119 - 47.0	500	33	(382.83) 709
5	6 -00.0	119-50.0	469	6	(386.07) 715
6	5 -52.0	119-56.4	300	19	(396.33) 734
	5 - 48.3	119-57.0	200	8	(400 .65) 742
	5 - 35.2	119-58.5	20	26	(414.69) 768
Bontaeng L.P	5-33.7	119 - 58.8	G=+l.Om	4	(416.85) 772

¹ n·m is equivalent to 1,852 m.

6-2 Position List on the Proposed Cable Route (Plan-1B)
Banjarmasin - Balang

Pos.No.	Posit	ion	Depth(m)	Dista	nce(km)
L.P.A/S	Latitude(S)	Longi tude (E)	nebru (m)	Between	Cumulation
Takisung					
L.P	3-52.4	114-36.7	G=+I.Om	:	0
		, 1	A .		(9.18 nm)
l	3 - 56.8	114-28.9	20	17	17
					(39.96)
2	4- 28.0	114 - 29.0	27	57	74
	•				(50.76)
3	4 - 33.0	114-38.3	29	20	94
		•			(147.41)
4	4 - 35.3	116-15.3	47	179	273
			. :		(213.82)
5	4- 15.0	117-18.8	200	123	396
					(217.06)
	4 - 17.0	117-21.0	500	6	402
					(222.46)
	4 - 20.3	117-26.0	1000	10	412
					(239.74)
	4 - 30.0	117 - 40.0	1911	32	444
					(295.36)
	5 - 02.5	118-26.0	1000	103	547
					(304.54)
6	5 - 07.8	118-34.0	650	17	564
					(326.13)
1	5 - 16.5	118-54.3	500	40	604
					(333.69)
	5 - 17.0	119-02.0	200	14	618
		,			(342.33)
7	5 - 20.8	119-10.0	40	16	634
				and the second	(350.97)
	5 - 22.5	119-18.3	20	16	650
Balang					(354.21)
L.P	5 - 23.1	119-21.4	G=+1.0 m	6	656
					:
					i in the state

¹ n·m is equivalent to 1,852 m.

6-3 Position List on the Proposed Cable Route (Plan-1C)
Banjarmasin - Pare Pare

Pos.No.	Posit	ion	00-11-(-)	Dista	nce(km)
L.P.A/S	Latitude(S)	Longi tude (E)	Depth(m)	Be tween	Cumulation
Takisung					
L.P	3 - 52.4	114 - 36.7	G=+I.Om		:0
					(9.18 nm)
1	3 - 56.8	114 - 28.9	20	17	17
					(39.96)
5.,	4 - 28.0	114 - 29.0	27	57	74
		•			(50.76)
3	4 - 33.0	114-38.3	29	20	94
					(1,47.41)
4	4 - 35.3	116- 15.3	47	179	2 3
		11-7 10.0	000		(213.82)
5	4 - 15.0	117- 18.8	200	123	396
·	4 160	117 000	500		(217.60)
	4 - 15.0	117 - 22.2	300	7.	(222.46)
	4-147	117 - 27.5	1000	9	412
	4 = 14.1	(11 - 21.3	1000	7	(272.14)
* <i>y</i>	4 - 110	118 - 18.0	2000	92	504
	7 17.0	110 10.0	2000		(287.26)
	4 - 10.0	118 - 33.0	2 3 3 3	28	532
					(296.44)
	4 - 09.3	119 - 42.3	2000	17	549
					(340.17)
:	4 - 06.0	119 - 26.3	1000	81	630
					(346.65)
	4 ~ 05.5	119 - 32.9	500	12	642
		:			(348.27)
	4 - 05.4	119-34.2	200	3	645
·					(350.43)
1 1 1 7	4 - 05.5	119-36.4	20	4	649
Pare Pare					(350,97)
L.P	4 - 05.2	119-36.9	G=+1.0m		650
				·	

¹ n·m is equivalent to 1,852 m.

6-4 Position Lits on the Proposed Cable Route (Plan-2)
Balikpapan - Palu

Pos. No.	Posit	ion	D	Dista	ince (km)
L.P.A/S	Latitude(S)	Longi tude (E)	Depth(m)	Be tween	Cumulation
Lemalu				·	
L.P	1-12.2	116 - 59.8	G≓+l.Om		0
		•			(3.78 nm)
İ	1-13.8	117 - 03.2	20	7	7
·		٠.			(42.66)
2	1-14.0	117- 42.0	200	72	79
					(45.36)
	1 - 13.0	117 - 44.5	500	5	84
					(51.30)
	1-11.2	117 - 49.7	1000	11	95
•					(72.89)
	1-04.2	118- 10.0	2000	40	135
		•			(104.75)
	0 - 53.0	118 - 40.0	2300	59	194
					(127.43)
	0 - 45.3	119 - 01.0	2000	42	236
		•			(153.35)
	0 - 37.0	119 - 25.0	1000	48	284
					(167.93)
3	0 - 32.0	119 - 38.0	730	27	311
					(177.65)
	0-36.0	119 - 47.0	500	18	329
	:				(177.92)
	0 - 36.0	119 - 47.4	200	0.5	329.5
Palu				•	(178.19)
L.P	0 - 36.0	119-47.6	G=+4.0m	0.5	330
			,		

¹ n·m is equivalent to 1,852 m.

