

Area	Class	Station Name	Call Sign		Emission			Service Hours of Service (GMT)	Longitude	Latitude	Remarks
			Mobile	Fixed	Frequency KHz or MHz	Class	Power KW				
V	II	Balikpapan	PKN		448, 500	A ₁ A ₂	0.5	0000 - 0100 0400 - 0500	116°48'31.5"E	1°16'16.5"S	Mobile
					4238	A ₁	0.25	Hx			
					6326.5	A ₁	0.25	0000 - 0100 0400 - 0500			
					8437	A ₁	0.25	0000 - 0100 0400 - 0500			
					2182 2690	A ₃ ^A A ₃ ^J A ₃ ^H	0.25	0000 - 0100 0400 - 0500			
					4357.4	A ₃ ^A A ₃ ^J	0.25	0100 - 0130			
					6225.5	A ₃ ^A A ₃ ^H A ₃ ^J	0.25	Hx			
					8746.5	A ₃ ^A A ₃ ^J	0.25	0400 - 0500			
					VHF	F ₃	0.05	0000 - 0500			
					Ch16 Ch20 Ch26						
V	III	Banjarmasin	PKC	8AR	11060	A ₁	0.7	0230 - 0400	114°35'57"E	3°20'30"S	Mobile
					6926	A ₃ ^J	0.1	0200 - 0230 0330 - 0400 0530 - 0600			
					5316	A ₃ ^J	0.1	0100 - 0130 0430 - 0500			
					456, 500	A ₁ A ₂	0.25	0100 - 0130 0500 - 0530 1000 - 1100			
					4238	A ₁	0.25	0230 - 0300			
					6337	A ₁	0.25	0600 - 0630			
					8457	A ₁	0.25	0130 - 0200			

Area	Class	Station Name	Call Sign		Emission			Service Hours of Service (GMT)	Longitude	Latitude	Remarks
			Mobile	Fixed	Frequency KHz or MHz	Class	Power KW				
V	III	Banjarماسin	PKG		2182	A ₃ A A ₃ J A ₃ H	0.25	0030 - 0100 0400 - 0430	114°35'57"E	3°20'30"S	Mobile
					3180	"	0.25	0030 - 0100 0400 - 0430			
					4388	A ₃ A A ₃ J	0.25	0630 - 0700			
					6215.8	"	0.25	0200 - 0230			
					8765.4	"	0.25	0530 - 0600			
					VHF	F ₃	0.05	0000 - 0600			
					CH16 Ch20 Ch22 Ch26						
V	III	Tarakan	PKO		8110/11060	A ₁	0.1	2330 - 0600	117°35'40"E	3°17'40"N	Fixed
					5216	A ₃ J	0.1	0800 - 0900			
					6926	A ₃ J	0.1				
					9116	A ₁	0.1				
					487.5 + 500	A ₁ A ₂	0.25	0130 - 0200 0430 - 0500 0630 - 0730			
					6337	A ₁	0.25	Hx			
					8445	A ₁	0.25	0100 - 0130 0330 - 0400 0730 - 0800			
2182	A ₃ A A ₃ H A ₃ J	0.25	0200 - 0230 0500 - 0530 0800 - 0830								
3180											

Area	Class	Station Name	Call Sign		Emission			Service Hours of Service (GMT)	Longitude	Latitude	Remarks
			Mobile	Fixed	Frequency KHz or MHz	Class	Power KW				
V	III	Tarakan	PKO		6422.5	A ₃ A A ₃ J	0.25	HX	117°35'40"E	3°17'40"N	Mobile
					6215.5	A ₃ A A ₃ J	0.25				
					6221.6	A ₃ H	0.25				
					6518.8	A ₃ A A ₃ J	0.25				
V	IV/A	Sampic	PKC ₂	8AC	VHF	F ₃	0.05	0000 - 0800	112°57'24"E	2°33'26"S	Mobile
					Ch10 Ch16 Ch20						
					Ch22 Ch26						
					5916	A ₃ J	0.1				
					6926	A ₃ J	0.1				
					9110	A ₁	0.1				
V	IV/A	Samarinda	PKS ₆	8AN ₇	VHF	F ₃	0.05	0130 - 0200 0500 - 0600	117°09'12"E	0°30'30"S	Mobile
					Ch10 Ch15 Ch16						
					Ch20 Ch22						
					5316	A ₃ J	0.1				
V	IV/A	Samarinda	PKS ₆	8AN ₇	6926	A ₃ J	0.1	2330 - 0600	117°09'12"E	0°30'30"S	Mobile
					9110	A ₁	0.1				
					8445	A ₁	0.02				
					VHF	F ₃	0.05				
V	IV/A	Samarinda	Samarinda Radio		Ch10 Ch15 Ch16			0200 - 0300 0400 - 0500	117°09'12"E	0°30'30"S	Mobile
					Ch20 Ch22						

Area	Class	Station Name	Call Sign		Emission			Service Hours of Service (GMT)	Longitude	Latitude	Remarks
			Mobile	Fixed	Frequency KHz or MHz	Class	Power KW				
V	IV/A	Samarinda		8AN ₂	5316	A ₃ J	0.1	2330 - 0600	117°09'12"E	0°30'30"S	Fixed
					6926	A ₃ J	0.1				
					9110	A ₁	0.1				
V	IV/B	Pulaupisami		8AN ₅	5316	A ₃ J	0.1	2330 - 0030 0400 - 0430 0500 - 0600			Fixed
					6926						
V	IV/B	Nunukan		8AN ₂	4055	A ₃ J	0.1				Fixed
V	IV/B	Muara Pegah		8AN _x	5316	A ₃ J	0.1	2300 - 2330 0400 - 0430			Fixed
					6926						
V	IV/B	Tg. Sencen									

Area	Class	Station Name	Call Sign		Emission			Service Hours of Service (GMT)	Longitude	Latitude	Remarks	
			Mobile	Fixed	Frequency KHz or Mhz	Class	Power KW					
VI	I	Ujung Pandang (Makassar Radio)	PXK		465.500	A ₁ A ₂	1	H ₂₄ 0100 - 0200 0900 - 1000 0200 - 0300 0800 - 0900 1100 - 1200 0400 - 0500 1200 - 1300 H ₂₄ 0300 - 0330 0730 - 0800 0330 - 0400 1000 - 1030 0600 - 0630 1030 - 1100 0700 - 0730 1330 - 1400 0000 - 1200	119°26'20"E	5°06'30"S	Mobile	
					4295	A ₁	1					
					8686	A ₁	1					
					12682.5	A ₁	1					
					2182	A ₃ ^A A ₃ ^H A ₃ ^J	0.7					
					2690							
					4397.7	A ₃ ^A A ₃ ^J	0.7					
					6215.5	A ₃ ^A A ₃ ^H A ₃ ^J	0.7					
					8802.6	A ₃ ^A A ₃ ^J	0.7					
					13100.8	"	0.7					
						VHF	F ₃					0.05
						Makassar Radio	Ch16 Ch20 Ch26					
							8AP					
							8110					A ₁
		11060	A ₁	1	0300 - 0330							
		9925	A ₁	1	0530 - 0600							
		14639	A ₁	0.7	0030 - 0100							
		5165	A ₃ ^J	0.7	0400 - 0430							
					Fixed							

Area	Class	Station Name	Call Sign		Emission			Service Hours of Service (GMT)	Longitude	Latitude	Remarks
			Mobile	Fixed	Frequency KHz or MHz	Class	Power KW				
VI	IV/D	Kondari	PKP ₃		VHF	F ₃	0.05	HX	122°55'00"E	3°55'00"S	Mobile
					CH10 CH15 CH16						
					CH20 CH22						
					5165	A _{3J}	0.125	0030 - 0100 0400 - 0430		Fixed	
	8/P ₂			9925	A ₁	0.125	0030 - 0100 0400 - 0430				
				6926	A _{3J}	0.125	0100 - HX				

Area	Class	Station Name	Call Sign		Emission			Service Hours of Service (GMT)	Longitude	Latitude	Remarks			
			Mobile	Fixed	Frequency KHz or MHz	Class	Power KW							
VII	T	Bitung	POM			438.500	A ₁ A ₂	1	125°10'51.8"W	1°26'46.8"N	Mobile			
						6428.5	A ₁	1				R24 0600 - 0700 1100 - 1200		
						8691	A ₁	1				0100 - 0200 0500 - 0600 0900 - 1000 1300 - 1400		
						12704.5	A ₁	1				0200 - 0230 1000 - 1030 1400 - 1500		
						2182	A ₃ ^A A ₃ ^H	0.7				0000 - 0100 0400 - 0500		
						2690	A ₃ ^J						0800 - 0900 1000 - 1200	
						4410.1	A ₃ ^A A ₃ ^J	0.7				RK		
						6215.5	A ₃ ^A A ₃ ^H A ₃ ^J	0.7				0100 - 0200 0500 - 0600 0900 - 1000 2000 - 2400		
						8808.8	A ₃ ^A A ₃ ^J	0.7				0200 - 0300 0700 - 0800 1200 - 1300		
						13125.6	A ₃ ^A A ₃ ^J	0.7				RK		
								VNF				F ₃	0.05	RK
								Ch16 Ch20 Ch26						
								8AS ₂				A ₁	1	0000 - 0930
			A ₁	1										
			A ₁	0.7										
			A ₃ ^J	0.1										
			A ₃ ^J	0.1										

Area	Class	Station Name	Call Sign		Emission			Service Hours of Service (GMT)	Longitude	Latitude	Remarks
			Mobile	Fixed	Frequency KHz or MHz	Class	Power KW				
VII	III	Dongxala	PXG ⁹		448.500	A ₁ A ₂	0.05	0030 - 0100 0400 - 0430	119°44'30"E	0°39'36"S	Mobile
					8686	A ₁	0.05	0130 - 0200 0530 - 0600			
					2182	A ₃ A A ₃ H A ₃ J	0.15	0000 - 0030 0430 - 0500 0930 - 1030			
					2690	A ₃ A A ₃ J	0.15	0100 - 0130 0900 - 0930			
					VHF	F ₃	0.05	0200 - 0230			
					Ch10 Ch15 Ch16 Ch20 Ch22		0.05	0500 - 0530			
VII	IV/B	Menado		8AS ⁷	9110	A ₁	0.1	0000 - 0600			Fixed
					5165	A ₃ J	0.1				
					5381.5	"	0.1				
					6926	"	0.1				
					VHF	F ₃	0.05	0200 - 0230			
				Ch10 Ch15 Ch16 Ch20 Ch22		0.05	0500 - 0530				
VII	IV/B	Corontalo	PXG ⁸	8AS	5381.5	A ₃ J	0.1	0000 - 0600	129°03'47"E	0°29'59"N	Mobile
					6926	A ₃ J A ₁	0.1	0000 - 0600			
					9110	A ₁	0.1	0000 - 0600			
					VHF	F ₃	0.05	0200 - 0230			
					Ch10 Ch15 Ch16 Ch20 Ch22		0.05	0500 - 0600			
				Corontalo Radio		0.03	0000 - 0030 0530 - 0600				

Area	Class	Station Name	Call Sign		Emission			Service Hours of Service (GMT)	Longitude	Latitude	Remarks
			Mobile	Fixed	Frequency KHz or MHz	Class	Power KW				
VII	IV/B	Corontalo		8AS ₃	9110	A ₁	0.10	0000 - 0600	123°03'47"E	0°29'59"N	Fixed
					5381.5	A _{3J}					
					6926	A _{3J}					
VII	IV/B	Poso	PKM ₆		VHF	F ₃	0.05	0000 - 0030 0230 - 0300 0530 - 0600 0900 - 0930	120°45'01"E	1°22'15"N	Mobile
					CH10 CH15 CH16						
					CH20 CH22						
					9110	A ₁					
VII	IV/B	Luwuk	PKM ₅		8AS ₄	A ₁	0.1	0000 - 0600	112°47'24"E	0°56'58"N	Mobile
						A _{3J}					
						A _{3J}					
					2182	A _{3A} A _{3H}					
					2690	A _{3J}					
					6215.5	"					
VII	IV/B	Luwuk Radio			VHF	F ₃	0.03	0000 - 0030 0530 - 0600			
					CH10 CH15 CH16						
					CH20 CH22						
					9110	A ₁					
VII	IV/B	Luwuk		8AS ₅	5165	A _{3J}	0.1	0000 - 0600			Fixed
					6926	"					
					5381.5	"					
						"					

Area	Class	Station Name	Call Sign		Emission			Service Hours of Service (GMT)	Longitude	Latitude	Remarks
			Mobile	Fixed	Frequency KHz or MHz	Class	Power KW				
VII	IV/B	Mold-Toll	PKM ₇		VHF	F ₃	0.05	0130 - 0200	120°48'25"E	1°03'35"N	Mobile
					Ch10 Ch15 Ch16	A _{3J}	0.1	0530 - 0600			
				8AS ₆	5381.5	A ₂	0.1	0000 - 0600			
VII	IV/B	Parigi	PKM ₄		VHF	F ₃	0.05	0100 - 0130	120°09'46"E	0°48'40"N	Mobile
					Ch10 Ch15 Ch16	A _{3J}	0.1	0400 - 0430			
				8AS ₈	5381	A ₂	0.1	0130 - 0400			
VII	IV/B	Ampena			9110	A ₁	0.1	0000 - 0600			Fixed
				8AS ₉	9110	A _{3J}	0.1	0000 - 0600			
					5381.5	A _{3J}	0.1	0000 - 0600			
VII	IV/B	Zahua		8AS ₂₀	5381.5	A _{3J}	0.1	2330 - 0300			Fixed
VII	IV/B	Kolonedelo			5381.5	A _{3J}	0.1	0000 - 1000			Fixed
				8AS ₂₁	6926	A _{3J}	0.1	0000 - 1000			
VII	IV/B	Siau			5381.5	A _{3J}	0.1	0000 - 1000			Fixed
				8AS ₂₂	6926	A _{3J}	0.1	0000 - 1000			

Area	Class	Station Name	Call Sign		Emission			Service Hours of Service (GMT)	Longitude	Latitude	Remarks		
			Mobile	Fixed	Frequency KHz or Mhz	Class	Power KW						
VIII	I	Ambon (Amboina Radio)	FKCE		470.500	A ₁ A ₂	1	H ₂₄	128°11'44"E	3°41'33"S	Mobile		
					4295	A ₁	1	Hx					
					8473	A ₁	1	0200 - 0330 0900 - 1030					
					12682.5	A ₁	1	0000 - 0100 0500 - 0600					
					17184.8	A ₁	1	0600 - 0700 1200 - 1230					
					2182	A ₃ A A ₃ J A ₃ H	0.8	0100 - 1200					
					2690	A ₃ A A ₃ J	0.8	Hx					
					4379.1	A ₃ A A ₃ H A ₃ J	0.8	0700 - 0800 2200 - 2300					
					8796.4	A ₃ A A ₃ J	0.8	0330 - 0430 2300 - 2400					
					13128.7	A ₃ A A ₃ J	0.8	Hx					
						Amboina Radio	VNTF	F ₃				0.05	0000 - 0500
							Ch16 Ch20 Ch22 Ch26 Ch28						
							8AQ	A ₃ B A ₁ A ₁ A ₃ J A ₃ J				1 1 1 0.1 0.1	0100 - 0900 0100 - 0900 0100 - 0900 2215 - 2400 0300 - 0330 0030 - 0100 0430 - 0500

Area	Class	Station Name	Call Sign		Emission			Service Hours of Service (GMT)	Longitude	Latitude	Remarks
			Mobile	Fixed	Frequency KHz or MHz	Class	Power KW				
VIII	IV/A	Ternate	PKC ₅		470, 500	A ₁ A ₂	0.08	0000 - 0030 0400 - 0430	127°22'52"E	0°47'00"N	Mobile
					6428.5	A ₁	0.08	0100 - 0230			
					VHF	F ₃	0.03	0000 - 0500			
					Ch12 Ch13 Ch14 Ch16						
VIII	IV/B	Tual	RUC ₂₄	8AQ ₂	5316	A ₃ ^J	0.1	0330 - 2400 0020 - 0100	132°40'27"E	5°20'10"S	Mobile
					9925	A ₁	0.1	0430 - 0500 0230 - 0300			
					VHF	F ₃	0.03	0100 - 0130			
					Ch12 Ch13 Ch14 Ch16						
VIII	IV/B	Banda Neira	8AQ ₄	8AQ ₃	9925	A ₁	0.1	2315 - 2400 0400 - 0445 0345 - 0400	132°40'27"E	5°20'10"S	Fixed
					5316	A ₃ ^J	0.1	2245 - 2400 0230 - 0300 0430 - 0500			
					6926						
					5316 6926	A ₃ ^J	0.1	2315 - 2400			

Area	Class	Station Name	Call Sign		Emission			Service Hours of Service (GMT)	Longitude	Latitude	Remarks	
			Mobile	Fixed	Frequency KHz or MHz	Class	Power KW					
IX	I	Jayapura	PNK			465.500	A ₁ A ₂	1	2300 - 1000	140°43'18"E	2°30'48"S	Mobile
						8694	A ₁	1	0000 - 0100 0300 - 0500			
						12682.5	A ₁	1	0100 - 0200 0500 - 1000			
						17074.5	A ₁	1	0200 - 0300 0700 - 0900			
						2182	A ₃ A A ₃ H A ₃ J	1	2300 - 1000			
						3180						
						4357.4	A ₃ A A ₃ J	1	Rx			
						6215.5	A ₃ A A ₃ H A ₃ J	1	0700 - 1000 2200 - 2300			
						6221.6	A ₃ A A ₃ J	1	0000 - 0200 0300 - 0500 0800 - 0900 2300 - 2400			
						8802.6	A ₃ A A ₃ J	1	0200 - 0300 0500 - 0600 0800 - 0900 2300 - 2400			
						13134.9	A ₃ A A ₃ J	1	0000 - 0200 0300 - 0500 0600 - 0800 0900 - 1000			
						VHF Ch16 Ch20 Ch26	F ₃	0.05	2300 - 1000			
							8AT	17615	A ₃ B A ₁			
		6926	A ₃ J	0.1	2230 - 0030 0730 - 0800 0600 - 0930							

Area	Class	Station Name	Call Sign		Emission			Service Hours of Service (GMT)	Longitude	Latitude	Remarks
			Mobile	Fixed	Frequency KHz or MHz	Class	Power KW				
IX	I	Jayapura		SAT	9925	A ₁	0.7	2300 - 2400	140°43'18"E	2°30'48"S	Fixed
					10225	A ₁		0130 - 0200			
					14639	A ₃	1	0900 - 0930			
IX	III	Sorong	PKY ₄		458.500	A ₁ A ₂	0.25	2300 - 0400	131°14'20"E	0°52'42"S	Mobile
					6337	A ₁	0.25	0130 - 0200			
					8461	A ₁	0.25	0200 - 0300			
					2182	A ₃ ^A A ₃ ^H	0.25	0900 - 0930			
					3180	A ₃ ^J					
					4422.5	A ₃ ^A A ₃ ^J	0.25	0400 - 0430			
					6215.5	A ₃ ^A A ₃ ^H	0.25	0800 - 0900			
					6221.6	A ₃ ^J					
					6506.4	A ₃ ^A A ₃ ^J	0.25	0100 - 0130			
					8802.6	A ₃ ^A A ₃ ^J	0.25	0900 - 0100			
						VHF	T ₃	2300 - 0400			
						Sorong Radio	Ch10 Ch16 Ch20	0800 - 1000			
							Ch22 Ch26				
		10225, 9110 (R)	0000 - 0900								
			2330 - 2330								
			0100 - 0200								
			0915 - 0930								
		9925	A ₁	0.1	0000 - 0900						

Area	Class	Station Name	Call Sign		Emission			Service Hours of Service (GMT)	Longitude	Latitude	Remarks
			Mobile	Fixed	Frequency KHz or MHz	Class	Power KW				
IX	III	Sorong		BAT ₄	6926	A ₃ J	0.1	2230 - 2340 0245 - 0300 0830 - 0845 0300 - 0330	131°14'20"E	0°52'42"S	Fixed
					5316	A ₃ J	0.1	2230 - 2340 0245 - 0300 0830 - 0845 0300 - 0330			
					458.500	A ₁ A ₂	0.25	2300 - 0500 0800 - 1000			
					6926.5	A ₁	0.25	0130 - 0200			
					8457	A ₁	0.25	2315 - 2330 0100 - 0130 0830 - 0900			
					2182	A ₃ A A ₃ R A ₃ J	0.25	2330 - 2400 0030 - 0100			
					3180	A ₃ A A ₃ J	0.25	Rx			
					4410.1	A ₃ A A ₃ J	0.25	Rx			
					6215.5	A ₃ A A ₃ H A ₃ J	0.25	2300 - 2315			
					6221.6	A ₃ A A ₃ J	0.25	0900 - 1000			
IX	III	Merauke	PKY ₅		6509.5	A ₃ A A ₃ J	0.25	0000 - 0030 0800 - 0830	140°43'24"E	8°29'00"S	Mobile
					VHF	F ₃	0.05	Rx			
					Ch10 Ch16 Ch20						
					Ch22 Ch26						
					6926	A ₃ J	0.1	2230 - 2330 0000 - 1000			
					9925	A ₁	0.1	0200 - 0445			

Area	Class	Station Name	Call Sign		Emission			Service Hours of Service (GMT)	Longitude	Latitude	Remarks
			Mobile	Fixed	Frequency KHz or MHz	Class	Power KW				
IX	TV/A	Manokwari	PKY ₃		2182	A ₃ A A ₃ J A ₃ H	0.1	0800 - 0900	134°00'32"E	0°48'50"S	Mobile
					3180						
					6221.6	A ₃ A A ₃ J	0.1	0800 - 0900 2300 - 2400			
					VNF	F ₃	0.03	fix			
					Ch10 Ch15 Ch16						
					Ch20 Ch22						
IX	TV/A	Blek	PKY ₂		8AT ₃	A ₁ A ₃ J	0.1	0015 - 0900	136°05'00"E	1°11'12"S	Mobile
						A ₁	0.1	2330 - 2400			
						A ₃ A A ₃ J	0.1	0000 - 0100			
					8AT ₂	A ₁	0.1	2330 - 2400 0130 - 0200			
						A ₁	0.1	0215 - 0230 0900 - 0930			
						A ₃ J	0.1	2310 - 2320 0030 - 0900			
						A ₃ J	0.1	2300 - 0845			
						A ₃ J	0.1	2230 - 1000			
						A ₃ J	0.1	2230 - 0700			
						A ₃ J	0.1	2200 - 1000			
						A ₃ J	0.1	2250 - 0900 2300 - 2310 0000 - 1000			
						A ₃ J	0.1				
IX	IV/B	Anomopara		8AT ₅	6926	A ₃ J	0.1	2230 - 1000		Fixed	
IX	IV/B	Kaimana		8AT ₇	6926	A ₃ J	0.1	2230 - 0700		Fixed	
IX	IV/B	Fak-Fak		8AT ₈	6926	A ₃ J	0.1	2200 - 1000		Fixed	
IX	IV/B	Serui		8AT ₉	6926	A ₃ J	0.1	2250 - 0900		Fixed	
					6213.5	A ₃ J	0.1	2300 - 2310 0000 - 1000		Fixed	

Area	Class	Station Name	Call Sign		Emission			Service Hours of Service (GMT)	Longitude	Latitude	Remarks
			Mobile	Fixed	Frequency KHz or MHz	Class	Power KW				
IX	IV/B	Nabire		8AT ₂₀	6926	A ₃ J	0.1	2200 - 1000			Fixed
IX	IV/B	Sarmi		8AT ₂₁	6926	A ₃ J	0.1	2315 - 0700			Fixed
IX	IV/B	Dintuni		8AT ₂₂	6926	A ₃ J	0.1	2230 - 0930			Fixed
					5316	A ₃ J	0.1	0300 - 0330 0800 - 0900			

APPENDIX-2

Present Status of Radio Equipment in Coast Stations

<u>Station</u>	<u>Item</u>	<u>Maker</u>	<u>Type</u>	<u>Mfg. No.</u>	<u>Mfg. Year</u>	<u>Output (Watt)</u>	<u>Freq-ency</u>	<u>Condi-tion</u>
<u>BELAWAN</u>	<u>Tx</u>	PHILIPS	8RZ-159 59352	CC-1700/S1	1969	1,000	500/475	G
		"	"	CC-1700/S2	"	"	"	"
		"	8RZ-153 53305	CC-1700/S1	"	"	2182/2690	"
		"	"	CC-1700/S2	"	"	"	"
		"	8RZ-151 51502	CC-1700/S1	"	"	12970.5 4295/8686	"
		"	8RZ-153 51502	CC-1700/S2	"	"	1799.2/8686 12970.5	"
		"	" 80220	CC-1700/S2	"	"	8110/13661/ 17615	"
		"	8RZ-813 13205	CC-1700/1	"	300	5165/8110	"
		"	8RZ-153 53505	CC-1700/1	"	1,000	6518.6/87384 13175.6	"
		MARCONI	OCEAN SPAN II	C525	1964	100	500/474	"
		"	"	A1280/8	"	"	500/474/11060	"
		PHILIPS	8Mz-220/ 901	CM-7065/S2	1969	50	CH16	"
		"	"	CM-7865/S1	"	"	CH26	"
	<u>Rx</u>	EDDYSTONE	830/7	EU-2115	1969	--	300K-30M	"
		"	"	EU-2116	"	--	"	"
		"	"	EU-2117	"	--	"	"
		"	"	EU-2118	"	--	"	"
		"	"	EU-2119	"	--	"	"
		"	"	EU-2121	"	--	"	"
		"	"	EU-2122	"	--	"	"
		"	EC958	BU-0036	"	--	10K-30M	"

Note:

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<u>Station</u>	<u>Item</u>	<u>Maker</u>	<u>Type</u>	<u>Mfg. No.</u>	<u>Mfg. Year</u>	<u>Output (Watt)</u>	<u>Freq-ency</u>	<u>Condi-tion</u>
<u>BELAWAN</u>	<u>Rx</u>	EDDSTONE	EC958	BU-0037	1969	--	10K-30M	G
		"	"	BU-0038	"	--	"	"
		MARCONI	AT-2207	0241	"	--	15K-28M	"
		"	"	1021	"	--	"	"
		PHILIPS	ISB-RO-955	CC-1701/S1	"	--	6926/11060/ 13661	"
		"	SSB-RO-933	CC-1701/S1	"	--	5165/8110	"
		"	8MO-200/962	CM-7865/S1	"	--	VHFC16.Ch26	"
"	RO-150	--	1977		0-29M	"		
	<u>TRX</u>	PYE	SSB-125T	6528	1969	125	5165/5295/ 6926/8110	"
<u>ULEE-LHEUE</u>	<u>TRX</u>	PYE	SSB-12ST	6533	1970	125	5165/5295/ 5316	G
		"	SSB-130	2827	1976	130	"	"
		"	"	2817	1976	130	"	"
<u>GN. SITOLI</u>	<u>TRx</u>	TWC	10S	--	--	100	2182	"
		"	"	--	--	"	5165	"
		"	"	--	--	"	5295.5	"
<u>SABANG</u>	<u>Tx</u>	JRC	NSC-144A	S-30343	1964	1,000	500/438	"
		"	"	S-30344	"	"	500/465	DER
		"	NSC-1085	F7163	"	85	500/470 F/418/17M	"
		"	NSD-7AA	BS-60202	1972	250	500/438/2182 4388.4/6251.51 8796.5	G

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<u>Station</u>	<u>Item</u>	<u>Maker</u>	<u>Type</u>	<u>Mfg. No.</u>	<u>Mfg. Year</u>	<u>Output (Watt)</u>	<u>Freq-ency</u>	<u>Condi-tion</u>	
<u>SABANG</u>	<u>Tx</u>	JRC	NSD-248	S-30341	1964	1,000	11060/17623/ 8686	G	
		"	"	S-30340	"	"	17184.5	"	
		"	"	S-30342	"	"	5316	"	
	<u>Rx</u>	"	NRD-142A	R-30366	"	"	90K-28M	"	
		"	"	R-30367	"	"	"	"	
		"	"	R-30363	"	"	"	"	
		"	NRD-143	R-60886	"	"	0.5M-30.5M	"	
		"	"	R-60887	"	"	"	"	
		"	"	R-60885	"	"	"	"	
		"	NRD-130F	R-30377	"	"	"	"	
		"	NRD-15J	BR-12546	"	1972	"	"	
	<u>TRx</u>	"	JMV207PE	CB-56533	"	1973	--	CH16/C20/C22/ C26/28	"
		PYE	SSB-125B	6533	"	1969	--	5165-5295	NG
	<u>DUYAI</u>	<u>Tx</u>	PHILIPS	MC2428/S01	--	1971	1,000	448/500	G
"			"	--	"	"	2182/3180	"	
"			"	--	"	"	6337	"	
"			"	--	"	"	8457/12682	"	
"			"	--	"	"	171848	"	
"			MC2428/302	--	"	"	6215/8765	"	
"			MC2428/301	--	"	"	4390/8765	"	
"			MC2428/S03	--	"	"	10300/14410	"	
"			MC2428/S01	--	"	"	300	4055/5316	"
"			"	--	"	"	1,000	11060//8110	"

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<u>Station</u>	<u>Item</u>	<u>Maker</u>	<u>Type</u>	<u>Mfg. No.</u>	<u>Mfg. Year</u>	<u>Output (Watt)</u>	<u>Freq-ency</u>	<u>Condi-tion</u>	
<u>DUMAI</u>	<u>Tx</u>	PHILIPS	MOBILOPON			100	5316/6926	G	
		RCA	409T		1957	1,000	--	NU	
		"	170T		"	1,200	HF	"	
		"	NSD-1123		"	"	MF	"	
		JRC	JSB		1967	100	5316/6926	NG	
	<u>Rx</u>	EDST	830		--	1971	--	30K-30M	G
		"	"		--	"	--	"	NG
		"	"		"	"	--	"	"
		"	EC958		"	"	--	"	G
		JRC	MNR130		1957	--	90K-23M	NU	
	<u>TRx</u>	MAC'R	500A		"	"	80K-23M	NG	
		"	"		"	"	"	NG	
		JRC	JSB-35		"	"	100	5316/6926	"
		"	"		"	"	"	"	G
		"	"		"	"	"	"	"
		PYE	SSB130F	2566	1971	"	"	"	"
		"	"	2567	"	"	"	"	"
		"	"	2568	"	"	"	"	NG
		"	"	2569	"	"	"	"	G
		"	"	2570	"	"	"	"	"
<u>TELK BAYUR</u>	<u>Tx</u>	PHILIPS	2908/S03	5322	1972	1,000	500/430/6335	"	
		"	2908/S02	5323	"	300	2182/3180	"	
		PYE	130	4231	"	100	4055/5316 6210.4/9110	"	

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<u>Station</u>	<u>Item</u>	<u>Maker</u>	<u>Type</u>	<u>Mfg. No.</u>	<u>Mfg. Year</u>	<u>Output (Watt)</u>	<u>Freq-ency</u>	<u>Condi-tion</u>
<u>TELK BAYUR</u>	<u>Rx</u>	PHILIPS	R7100A	215	1972	--	All Band	G
		"	"	233	1970	--	"	"
		JRC	NRD130C	C20 950	1963	--	"	"
		FURUNO	NS11	5152503	1979	--	--	"
	<u>TRx</u>	PYE	130F	4131	1972	100	4055/5316 6210/9110	"
		"	"	4132	"	"	"	"
		RADIO COMMUNICATIONS	FM150/1-at/806	1214	1978	70	C10,12,14,16	"
		"	FM150/1-Bt/806	1200	1978	70	C20,22,2628	G
		FURUNO	NS-11	5152503	1979	150	2182/3180 5 other Freq.	G
<u>TG UBAN</u>	<u>Tx</u>	PRESS-WIRELES	PWT OCN	105			8076	NG
		"	"	103			"	"
		TCS	13A/S/12	104			5316	NG
		"	CIR/53345	101			11060	"
		"	13A/T/12	108				"
		"	13A/T/12	9080				"
		"	COL/T/52245	4311				"
		"	13A/T/12	119			0.5-29 MHz	"
	<u>Rx</u>	YAESU	EGR-7	7H 111283			0.5-30 MHz	G
		EDISTONE	--	FF 4015			"	"
		"	--	"			0.2-20 MHz	"
		RCA	91A	C711			"	"
		"	"	C293			"	"

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<u>Station</u>	<u>Item</u>	<u>Maker</u>	<u>Type</u>	<u>Mfg. No.</u>	<u>Mfg. Year</u>	<u>Output (Watt)</u>	<u>Freq-ency</u>	<u>Condi-tion</u>
<u>TG UBAN</u>	<u>Rx</u>	TCS	CKP-46159A	-2304			1.5-12 MHz	G
		"	12A/T/12	119			"	"
		"	"	122			"	"
		"	13A/T/12	113			"	"
		"	"	106			"	"
		"	"	111			"	"
	<u>TRx</u>	PHILIPS	CNFFAD				C12, C13 C14, C16	"
		PYE	130				4055, 5315 6926, 9110	"
		JRC	NTD-117Z	0.25-30			5316, 4055 2182, 6926, 9110	"
<u>BENG-KALIS</u>	<u>TRx</u>	PYE	SSB-130	2568		100	5316	"
<u>PALEM-BANG</u>	<u>Tx</u>	JRC/SSB	JRC-1C	BS-30057	1969	1,000	--	NU
		JRC/MF-1	NSC-144A	BS-60021	"	"	448/500	G
		JRC/MF-2	"	BS60022	"	"	"	"
		JRC/SSB-1	NSD-1B	BS-30072	"	"	2182, 2690 8437, other 2	"
		JRC/SSB-2	"	BS-30073	"	"	"	"
		JRC/SSB-3	"	BS-30074	"	"	4446/8118/9925	"
		RFC	6004	--	1980	5	400 MHz	"
	<u>Rx</u>	JRC/ISB-1	JRR11-2B	AR-10447	1969			NU
		JRC/ISB-2	"	AR-10448	"	--	0.2-30 MHz	G
		JRC/MF1	NRD-1EL	AR-10537	"	--	All Band	"
		JRC/MF-2	"	AR-10538	"	--	"	"

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<u>Station</u>	<u>Item</u>	<u>Maker</u>	<u>Type</u>	<u>Mfg. No.</u>	<u>Mfg. Year</u>	<u>Output (Watt)</u>	<u>Freq-ency</u>	<u>Condi-tion</u>
<u>PALEM-BANG</u>	<u>Rx</u>	JRC/SSB-1	NRD-11E	AR-10395	1969	--	"	"
		JRC/SSB-2	"	AR-10396	"	--	"	"
		JRC/SSB-3	"	AR-10397	"	--	0-30 MHz	"
		JRC/SSB-4	"	AR-10398	"	--	"	G
		JRC/SSB-5	"	AR-10399	"	--	"	"
		JRC/RFC	6004	--	1980	--	400 MHz	"
	<u>TRx</u>	JRC/UHF	JUA-2C	DA-10205	1969	5	"	"
		"	"	DA-10204	"	"	"	"
		JRC/VHF	JHP-25	CA-54546	"	25	C16	"
		"	"	P-50917	"	"	C20	"
	"	"	CA-54544	"	"	C26	"	
	JRC	JSB-50/ TR125	006-03	1979	125	4446.5, 9950 5381.5, 6926	"	
<u>PON-TIANAK</u>	<u>Tx</u>	JRC	NSD-7AA	--	1972	250	500/465	"
		"	"	"	"	"	2182/4410 6218/6215	"
		"	NSD-1125	"	1967	100	6355/8423 9950/11060	"
	<u>Rx</u>	"	NRD-15J	--	1972	--	All Band	"
		"	"	"	"	"	"	"
	<u>TRx</u>	"	NTD177	--	"	--	4446/5304.5 6926/9950	"
		"	"	"	"	--	"	"
		"	JHV-207PS	--	1973	--	CH10/CH16	"
	"	JHV-207R	--	"	--	CH20,22,26	"	

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<u>Station</u>	<u>Item</u>	<u>Maker</u>	<u>Type</u>	<u>Mfg. No.</u>	<u>Mfg. Year</u>	<u>Output (Watt)</u>	<u>Freq-ency</u>	<u>Condi-tion</u>
<u>CIRE-BON</u>	<u>Tx</u>	JRC	NSD-1085	5635	1968	85	500/474,64915 8119,2182,3195	G
	<u>Rx</u>	ATLANTA	2207	930	1965	--	200 KHz-23 MHz	"
		JRC	NMR-1030R	2195	1968	--	90 KHz-23 MHz	"
	<u>TRx</u>	JRC	NTD-177	BS12228	1972	125	4446.5,9950 5381.5,6926	"
		"	"	BS12229	"	"	"	"
		"	JHF207PR	CB56503	1973	20	C10,C15,C16	"
		"	"	CB58503	"	"	C20	"
FURUNO		NS-11A	5320037	1977	150	2182/2690/ 6215.5	"	
<u>PAN-JANG</u>	<u>Tx</u>	JRC	NSD-1085	5641	1968	85-100	430/500/6355/ 6523/8110	G
		"	NSD-1125	5279	"	125	"	"
	<u>Rx</u>	ATLANTA	2207	909	1967	--	15KHz-28MHz	"
		JRC	NMR1030K	21091	"	--	90KHz-25MHz	"
	<u>TRx</u>	"	NTD-177	BS12227	1972	100	44465, Other 4 Bands	"
		"	JHV207PS	CB56407	1973	20	C10,C15,C16	"
		"	JHV207R	CB56515	"	"	20-22	"
		FURUNO	NS-11A	53220044	1978	150	2182/2690 Other 3 Bands	"
INTI		NTD-177Z	027-30	1979	100	4446.5 Other 4 Band	"	
<u>JAMBI</u>	<u>Tx</u>	JRC	NSD-1125	5276	1967	125/75	500/448/2182 6491.5/8110	"
		BC	375E	6873	1942	--	8110	"
	TCS	131A/S/12	117	1954	--	4055	SPR	
	"	"	114	"	"	"	G	

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<u>JAMBI</u>	<u>Rx</u>	JRC	NRD1EC	R-62007	1967	--	90 KHz-30 MHz	SPR
		"	NMR1030X	21099	"	--	90 KHz -23 MHz	G
		PHILIPS	BX925A	0199	--	--	210 KHz-20.7 MHz	SPR
		TCS	13/A//R/12	106	1954	--	1.5 MHz-12 MHz	G
		"	"	114	"	--	"	"
	<u>TRx</u>	JRC	NTD177	BS12232	1972	125	--	NG
		"	"	BS12233	"	"	4 Bands	G
		"	JHV207PS	CB56510	"	20	CH10,15,16	"
		"	JHV207R	CB56510	"	20	CH20,22	"
		FURUNO	FS100A	785014	1978	100	2 Bands	NG
		YAESU	FT300C	2062	1979	100	6 Bands	G
<u>MUNTOK</u>		JRC	NTD-168	BS10392	1970	100	4446.5,5381.5 6926,9950	NG
		INTI	NTD-177	005-30	1979	125	"	G
<u>MUARA-SABAK</u>		JRC	NTD168	BS10389	1970	50	5381.5	"
		YAESU	FT-3000	120064	1979	90	"	"
<u>BENG-</u>		JRC	NTD-168	BS10390	1970	100	5381.5,9950	"
		"	NTD-177	007-30m	1979	100	"	"
<u>PANGKAL-BALAM</u>		"	NTD-177	BS12230 BS12231	1973	100	4446.5,5381.5 6926,9950	"
		"	JHP207	CB56506 CB56517	"	50	C10,15,16 C20,22	"
		FURUNO	FS-100A	785020	"	100	2182,2690,2090 Other 6 Bands	"

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<u>SURABAYA</u>	<u>TX</u>	PHILIPS	9551321 593 52	CC/382/S4	1968	1,000	430/500	G
		"	"	CC/382/S3	"	"	"	"
		"	9551 321 593 05	CC/382/S1	"	800	2182/2690	"
		"	"	CC/382/S2	"	"	"	"
		"	"	CC/382/S1	"	"	4379.1/62153 8796.4	"
		"	9551 321 593 02	CC1382/S1	"	1,000	171992/8461/ 127045	"
		"	"	CC/382/S2	"	"	9950/8461/ 127045	"
		"	"	CC/382/S3	"	"	9061/10226	"
		"	9551 321 132 04	CC/382/S3	"	800	5316/10226	"
		"	8 MHz 220 961	CH 5599/S1	1961	50	156.8 (C16)	"
		"	"	CH559/S13	"	"	161.6 (C20)	"
		"	"	CH5599/S17	"	"	161.7 (C22)	"
		"	"	CH5599/S2	"	"	161.9 (C26)	"
		"	"	CH5599/S7	"	"	162.0 (C28)	"
		MARCONI	Ocean- Span VII	1135 BN 0.665	1958	72	500/430	"
		JRC	NSD199H	S-20138	1964	250	8110/5316	"
		RFC	150/1- AT806	1217	1978	50	156.8 (C16)	"
		"	150/1- BT806	1220	"	"	161.6 (C20)	"

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<u>SURABAYA</u>	<u>Tx</u>	RFC	"	1219	1978	"	161.7 (C22)	G
		"	"	1218	"	"	161.9/162.0 (C26/C28)	"
	<u>Rx</u>	PHILIPS	8RO501/01	CC/382/S2	1968	--	200 KHz-31.2 MHz	"
		"	"	CC/382/S6	"	--	"	"
		"	"	CC/382/S7	"	--	"	"
		"	"	CC382/S9	"	--	"	"
		"	"	CC382/S10	"	--	"	"
		"	"	CC/382/S14	"	--	"	"
		"	"	CC/382/S15	"	--	"	"
		"	3522 144 973 00	CC/382/S1	"	--	5316/91101	"
		"	"	CC/382/S1	"	--	5316/10226	"
		"	8RO 150	MC3504/S03	1976	--	0.1 MHz-20MH	"
		"	8XO 200/ 901	CM599/S4	1961	--	C16	"
		"	"	CM5599/S2	"	--	C20,22	"
		"	"	CM5599/S7	"	--	C26,28	"
		JRC	NRD130G	C20957	1963	--	90 KHz-20 MHz	"
		"	NRD1-EL	R62012	1967	--	90 KHz-30 MHz	"
		RFC	1541-AT/ 806	1217B	1978	--	166.8 (Ch16)	"
		"	"	1219B	"	--	161.6 (Ch20)	"
		"	"	1220	"	--	161.9 (Ch22)	"
		"	"	1218	"	--	161.9/1620 (Ch28,26)	"

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<u>SURABAYA</u>	<u>TRx</u>	PYE	SSB 130F	4133	1972	100	5165	G
		"	"	4140	"	"	5165/5316	"
		PHILIPS	8MR221/511	CM5519/S2	1961	50	Ch12	G
		"	"	CM5519/57	"	"	Ch14	"
	<u>RADIO-LINK</u>	JRC	8SR960	--	1978	10	407.3	"
	"	"	6004	--	1980	10	"	"
<u>KUPANG</u>	<u>Tx</u>	PHILIPS	R2-195	R22908/S02	1972	1,000	430/8445/9950	G(70%)
		"	R2813	MC-2908/S02	"	300	3180/2182/6M	"
		JRC	NSD-1125	5237	1967	100	500/430//8730	NG
	<u>Rx</u>	R.HOLLAND	R.7100A	232	1972	--	--	G(70%)
		"	"	219	"	--	--	"
		JRC	NMR1030	1085	1967	--	--	"
	<u>TRx</u>	PYE	SSB-130	4146	1972	100	6Ch	"
		"	"	4149	"	"	"	"
		JRC	SSB-7727	1587	1980	100	"	"
	<u>CILACAP</u>	<u>Tx</u>	PHILIPS	MC2908/S01	72571	1972	1,000	474/500/8445
"			"	72581	"	300-1,000	2182/3180/6506.4	"
JRC			NSD1125	5272	1967	--	474/500/8445	NG
<u>Rx</u>		RADIO-HOLLAND	R7100A	216	1972	--	80 KHz-30 KHz	G
		"	R7100A	209	"	--	"	"

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<u>Station</u>	<u>Item</u>	<u>Maker</u>	<u>Type</u>	<u>Mfg. No.</u>	<u>Mfg. Year</u>	<u>Output (Watt)</u>	<u>Freq-ency</u>	<u>Condi-tion</u>
<u>CILACAP</u>	<u>Rx</u>	JRC	1030	21084	1967	--	90 KHz-23 MHz	G
	<u>TRx</u>	PYE	SSB-130F	4141	1972	100	--	NG
		RFC	150/1-AT/806	1345	1980	50	12-14-16-20-26	G
		"	"	1345H	"	"	"	"
<u>PANA-RUKAN</u>	<u>Rx</u>	JRC	NRD-130G	C-20960	--	--	90 KHz-28 MHz	"
	<u>TRx</u>	PYE	SSB-130	5866	--	100	5316/6926 9950/10226	"
		"	"	5911		100	"	"
		PHILIPS	CM FAD	45268	--	20	C12,13,14,16	"
<u>BENOA</u>	<u>Tx</u>	NAVY DEP BUREAU OF SHIP	TCS-12	9193	1942	50	649.5	NG
		MARCONI	1200C	1268	1960	100	500/487.5	"
	<u>Rx</u>	NAVY DEP BUREAU OF SHIP	TCS-12	9114	1942	--	2.5-12 MHz	"
		MARCONI ATLANTA	2207C	914	1960	--	10 Band	G
		JRC	NDRN2A	R-300369	"	--	8 Band	"
	<u>TRx</u>	PYE	SSB-130M	5906	1976	100	5316/6929/ 9950	NG
		PYE	SSB-130M	5909	"	"	"	G
		MOBIL-PHONE	VHF CMT	9551 151	"	20	C12,13,14,16	"
		FURUNO	NS-11A	5320034	1978	150	2182 Other 4 Band	"

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<u>TEGAL</u>	<u>Tx</u>	TCS	15	150	1945	25	1.5-9 MHz	NG
	<u>Rx</u>	JRC	NRD	142A-n	1964	--	All Band	G
		EDDY-STONE		8680FF	1945	--	"	NG
	<u>TRx</u>	PYE	SSB-130P	3699	1972	100	Ch1-Ch4	G
		"	SSB-130M	5061	1974	100	"	"
		SPIL-BURY & TINDAL	VHF		"	10	C6,8,12,14,16	"
PHILIPS		"	9551	"	25	C12,13,14,16	"	
<u>MENENG</u>	<u>TRx</u>	PYE	130M	5868	1974	100	S/D4	"
		"	130M	5913	"	"	1S/D4	"
		PHILIPS	FAD4AB	955/15/ 20906	"	10	VHF	"
	FURUNO	NS-11A	5320039	1978	350	1S/D5	NG	
	<u>Rx</u>	JRC	12A	R-30250	1964	--	All Band	"
<u>CELUKAN-BANWANG</u>	<u>TRx</u>	INTI	NTb-177	2026-30	1979	125	4055, Other 5 Band	G
		PHILIPS	VHF CMT	955 115/ 1295.3	1974	20	C16,12,14	"
<u>PROBO-LINGGO</u>		PHILIPS	130.M	5858	1974	100	5316,6926 9950,10226	"
<u>BIMA</u>		--	125T	5614	--	90	5316	NG
<u>BALIK-PAPAN</u>	<u>Tx</u>	JRC	NSC 158AA	BS-30164	1971	500	500	G
		"	"	BS-30165	"	"	448	"
		"	NSD-68A	BS-30136	"	1,000	2182,4357.4 Other 3 Band	"

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<u>BALIK-PAPAN</u>	<u>Tx</u>	JRC	NSC 158AA	BS-30137	1971	1,000	"	G
		"	JRC-05C	BS-60072	"	"	11060	"
	<u>Rx</u>	"	NRD-1EL	BR-10665	"	--	All Band	"
		"		BR-10666	"	"	"	"
		"	MRD-11E	BR-11398 BR-11339 BR-11460	"	"	"	"
	<u>TRx</u>	"	JSB-35	BS-10393	1970	100	4487.1,6924.6 53146,9108.6	"
		"	JHV-2078	CB50499	1971	20	C12,14,16	"
		"	"	CB50500	"	"	"	"
		"	JHV-207R	CB-53905	1972	"	C20,22,24,26,28	"
	<u>TARAKAN</u>	<u>Tx</u>	"	NSD-7AA		"	250	500/478.5 2182/8445
<u>Rx</u>		"	NRD-15j			--	All Band	"
<u>TRx</u>		"	JHV-207R		1972	20	Ch20,22,26	"
		"	JHV-207PS		"	"	Ch10,16	"
		"	NTD-177		"	250	4053.6/5316 6926/9110	"
<u>BANJAR-MASIN</u>	<u>Tx</u>	"	NSD-7AA	BS 30 293	1971	250	500-456 2182 3180 Other 4 Band	NG
		"	"	BS30294	"	"	"	"
		"	NSD-1962	S-11573	1964	300	--	DER
		"	NSD-193H	S-20140	"	"	8457,8726 8110,11060	G

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<u>BANJAR-MASIN</u>	<u>Rx</u>	"	NRD-11E	ER-11395	1971	--	All Band	G
		"	"	ER-11396	"	--	"	"
		"	NRD-130P	R-30331	1964	--	"	"
		"	"	R-30332	"	--	"	"
	<u>TRx</u>	JRC-JSB-35 (Tran-ceiver)	NTD-168	BS-10974	1971	100	5316,6926, 9110	"
	"	"	BS-10394	"	"	"	"	
	"	"	BS-10394	1970	"	"	"	
<u>SAMPIT</u>	<u>TRx</u>	JRC	NTD-177	BS-12236	1972	"	40053/5316	"
		"	"	BS-12237	"	"	6926/9110	"
		"	JHV-207R	CB-56520	1973	20	Ch20,22	"
		"	JHV-207 PS	CB-56512	"	"	Ch10,15,16	"
<u>PULANG-PISAU</u>		FURUNO	NS-6A	5120 358	"	100	9110,5316	"
<u>MAKA-SSAR</u>	<u>Tx</u>	JRC	JRC-1C	BS 30056	1969	1,000	5165 Other 5 Band	"
		JRC/MP-1	NSC-144AA	BS 60019	"	"	465/500	"
		JRC/MP-2	"	BS 60020	"	"	"	"
		JRC/SSB-1	NSD-6B	BS 30069	"	"	2182 Other 7 Band	"
		JRC/SSB-2	"	BS 30070	"	"	"	"
		JRC/SSB-3	"	BS 30071	"	"	5165 Other 5 Band	"
		JRC	NSD-1125	5721	1967	100	465/500 Other 4 Band	"

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<u>MAKA-SSAR</u>	<u>Rx</u>	JRC/SB-1	JRC-11/28	1R-10445	1969	--	0.2KHz-30MHz	G
		JRC/SB-2	"	AR-10446	"	--	"	"
		JRC/MF-1	NRD-1EL	AR-10596	"	--	90KHz-30MHz	"
		JRC/MF-2	"	AR-10597	"	--	"	"
		JRC/SSB-1	NRD-11E	AR-10390	"	--	"	"
		JRC/SSB-2	"	AR-10391	"	--	"	"
		JRC/SSB-3	"	AR-10392	"	--	"	"
		JRC/SSB-4	"	AR-10393	"	--	"	"
		JRC/SSB-5	"	AR-10394	"	--	"	"
		JRC	NRD-1030K	21086	1969	--	"	"
	PHILIPS	RO-150	MC-3504/S02	1967	--	--	"	
	<u>TRx</u>	JRC/VHF	JHV-25	F-52539	1969	25	C.16	"
	"	"	"	F-52555	"	"	"	"
"	"	"	F-52554	"	"	C.26	"	
"	"	"	F-52537	"	"	C.20	"	
"	JRC	JSB-36	S-15117	1967	100	6204,9110 10226,10410	"	
<u>KEN-DARI</u>	"	"	NTD-177	BS 14324	1974	125	5165/5295.5 6926/9925	"
	"	"	"	BS 14323	"	"	"	"
	"	"	JHV-217	CE 51949	"	20	C15,15,10	"
	"	"	"	CE51950	"	"	"	"
<u>DON-GGALA</u>	<u>Tx</u>	"	NSD-1125		1968	100	8606	"
		"	NSD-1085		1967	"	500	"

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<u>DOH- GGALA</u>	<u>Rx</u>	"	NMR-1030		1968	--	90KHz-23MHz	"
	<u>TRx</u>	"	NTD-177		1973	100	5165/5381.5 6926/9110	"
		FURUNO	NS-11A		"	"	2182 Other 7 Band	"
		JRC	JHV-207PS		"	20	156.80/156.5/ 156.75	"
		"	JHV-217R		"	"	161.6/161.7	"
<u>POSO</u>	<u>Tx</u>	BC-375-E	--	74275	1942	75	--	DER
		JRC	KSD-1085	5634	1968	85	9110	G
	<u>Rx</u>	RC-348-Q	--	16082	1942	--	8110	DER
		JRC	KMR-1030	2110	1968	--	9110	G
		BS-348-Q	--	4514	1955	--		DER
	<u>TRx</u>	JRCSSB	KSD-177	BE 14327	1974	100	5615,5381 6926,9110	G
		JRCSSB	KSD-177	BE 14328	"	"	"	"
		JRC/VHF	JHV-217	CE 51953	"	20	C10,15,16	"
		"	"	CE 51958	"	"	C20,22	"
<u>KOLO- NODALE</u>		YRC	YSB-35	ES 10525	--	--	51636/5380.1 6924.6/5108.6	"
		JRC	HTD/68	--	1970	--	"	"
<u>GORON- TALO</u>	<u>Tx</u>	"	KSD-1085	5039	1968	85	9110	NG(25%)
	<u>Rx</u>	"	KMR-1030K	21098	1967	--	90KHz-23MHz	"
	<u>TRx</u>	"	SSB	BS-14333	1974	100	9110/6926	G(80%)
	"	"	BS-14334	"	100	5381/5165	"	

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<u>GORON-TALO</u>	<u>TRx</u>	JRC	VHF/FM	CE-51959	"	20	C10,15,16,20,22	G
		"	"	CE-51951	"	"	"	"
		"	SBX-100	47927	1980	100	2182 Other 7 Band	"
<u>SIAU</u>		"	JSB-35	BS 10528	1970	"	5163.6/5380.1 6924.6/8180.6	"
<u>TAHUNA</u>	<u>TRx</u> (Tranceiver)	"	JSB-35	BS 10524	1970	"	5163.6/5180.1 5924.6/8108.6	"
<u>PARIGI</u>	<u>Tx</u>	RADIO-HOLLAND	BC348X	197	1942	75	--	DER
	<u>Rx</u>	"	BC374	154	"	--	--	"
	<u>TRx</u>	JRC	NTD177	BS14330	1974	100	5165/5381 6926/9110	G
		"	VHF JHV-217	CA5955	"	20	C10,15,16	"
<u>AMBON</u>	<u>Tx</u>	"	NSD 199H	S-20137	1963	250	470/500	NG
		PHILIPS	8RZ153/00	XC1276/S1	1968	1,000	470/500	"
		"	"	XC1276/S6	"	"	"	"
		"	8RZ150/01	XC1276/S20	"	"	2182/2690	"
		"	"	XC1276/S13	"	"	"	"
		"	"	WC-1128/S13	"	"	4295.5/8742/ 12682.5	"
		"	"	XC-1276/S9	"	"	1718.45/8473/ 11060	"
		"	"	XC1276/S17	"	"	4396.6/6215.5/ 8796.4	"
		"	"	BC887/S7	"	"	8080/133661/ 17623	"

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<u>AMBON</u>	<u>Tx</u>	"	8M2220/901	CM599/524	"	50	156.8 (C16)	NG
		"	"	CM5599/S14	"	"	161.60 (C20)	"
		"		CM5599/S19	"	"	161.70 (C22)	"
		"		CM5599/S4	"	"	161.90 (C26)	"
		"		CM5599/S9	"	"	162.00 (C28)	"
	<u>Rx</u>	"	8R0501/01	CC1382/S8	1968	--	0.2-31.2 MHz	NG(40%)
		"	"	CC1382/S12	"	--	"	G
		"	8R050/00	CC1382/S1	"	--	"	G(50%)
		"	"	CC1382/S5	"	--	"	NG(10%)
		"	"	CC1382/S16	"	--	"	"
		"	8R0501/01	CC1382/S4	1968	--	0.2-31.2MHz	G
		"	"	CC1382/S11	"	--	"	NG
		"	"	CC1382/S13	"	--	"	"
		"	8RE900/01	CC1382/S2	"	--	8110, 17615 13661	G
		"	8MB/902	CM5599/S9	"	--	Ch26/28 VHP	NG
		"	"	CM5599/S4	"	--	Ch26/22	"
		"	"	CM5599/S5	"	--	Ch16	"
		EDDYS/ONE	S880/2	HS0590	"	--	0.5-30.5MHz	NG(40%)
		"	"	HS0597	"	--	"	"
		JRC	NRD-11E	BR11123	1970	--	90KHz-30MHz	G
		"	NRD-130G	C-20959	1963	--	"	NG
	<u>TRx</u>	PYE	125T	5517	1969	100	5316/7556	"
		"	"	56119	"	"	"	"

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<u>AMBON</u>	<u>TRx</u>	PYE	"	5618	"	"	"	NG
		PHILIPS	8MR730	S9932	1968	10	Ch20/22/26	"
		"	"	S9933	"	"	"	"
		"	"	S9934	"	"	"	"
		"	UHF3TK3010	MBS471	"	--	415-428 MHz	G
		RADIO-FRREQ.-COMMUNICATION	FH/400 60/600HST	--	1977	--	407.5-421 MHz	"
<u>TERNATE</u>	<u>Tx</u>	JRC	NSD-1085	5640	1968	85	500/470 6428.5	"
	<u>Rx</u>	"	NMR-1030K	21095	1967	--	90KHz-23MHz	"
	<u>TRx</u>	PYE	SSB-130	TP453	1971	100	4488.5/5316 6926/9925	"
		PHILIPS	CHT	45270	--	20	VHF C12,13,14,16	"
<u>JAYAPURA</u>	<u>Tx</u>	JRC	JRC-1C	--	1969	1,000	5316/6916/ 9925/10225/ 13661/17615	"
		"	NSD-6B	"	"	"	"	"
		"	"	"	"	"	2182/3128 6215.5/6221.6 8694/8802.5 12682.5/1704.4	"
		"	"	"	"	"	"	"
		"	NSC-144AA	"	"	"	465/500	"
		"	"	"	"	"	"	"

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<u>JAYAPURA</u>	<u>Rx</u>	JRC	JRC-11/2B		1969	--	90KHz-30MHz	G
		"	"		"	--	"	"
		"	NRD-11F		"	--	"	"
		"	"		"	--	"	"
		"	"		"	--	"	"
		"	"		"	--	"	"
		"	"		"	--	"	"
		"	NRD-1FL		"	--	"	"
		"	"		"	--	"	"
	<u>TRx</u>	"	JHV-25		1969	50	C16	"
		"	"		"	"	"	"
		"	"		"	"	C20	"
		"	"		"	"	C26	"
<u>JAYAPURA</u>		"	JUA-2C1046		"	--	407.5MHz	"
		"	JUB-2C118B		"	--	Multiplex Terminal	"
		"	JUB-2Q104G		"	--	420 MHz	"
		"	JUB-2C118B		"	--	Multiplex Terminal	"
		DANADRAM MARCONI	CH-25		1970	1,000	2186	"
<u>MERAUKE</u>	<u>Tx</u>	JRC	NSb-7AA	BS-60200	1972	250	500/458/8457 Other 10 Band	"
		"	"	BS-60201	"	"	"	"

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<u>MERAUKE</u>	<u>Rx</u>	"	NSb-15J	BR-12545	1972	--	All Band	G
		"	"	BR-12544	"	--	"	"
	<u>TRx</u>	"	NTD-177	BS-12242	"	50	10225,9925 6926,5316	"
		"	"	BS-12243	"	"	"	DER
	JRC/VHF	JHV-2079S	CB-56504	1973	20	C16,10	G	
	"	"	CB-5600	"	"	C20,22,26	"	
	CHC MARCONI	SSBCH-25	6987	--	100	2182/2148	NG	
<u>SORONG</u>	<u>Tx</u>	JRC	NSP-7AA	BS-60198	1972	250	458/500/2182 Other 8 Band	G
		"	NSD-7AA	BS-60199	"	"	"	"
	<u>Rx</u>	"	NRD-15J	BR-12542	"	--	0.1-50 MHz	"
		"	"	BR-12543	"	--	"	"
	PHILIPS	BRC-501	RED-764	1965	--	0.2-32 MHz	G(654)	
	<u>TRx</u>	JRC	NTD-177	BS-12248	1972	125	5311/16926 Other 2 Band	G
		"	"	BS-12249	"	"	"	"
	CAN. MARCONI	CH-25	6953	1970	100	2182/4319	"	
	BACKER	HB152RT	001 1965	1965	100	7830/8755	NG	
	JRC	JHV-207PS	CR-56499	1973	20	156.7/156.8	DER	
"	JMV-207B	DB5603	"	"	161/1617	"		

Notes:

G = Good, NG = No Good, DER = Out of Order, NU = No Used, SPR = Spare

<u>Station</u>	<u>Item</u>	<u>Maker</u>	<u>Type</u>	<u>Mfg. No.</u>	<u>Mfg. Year</u>	<u>Output (Watt)</u>	<u>Freq-ency</u>	<u>Condi-tion</u>
<u>FAK.FAK</u>	<u>Tx</u>	CMC	SSBCH25	7012			6926/8281 6213	G
		"	"	7013			2182	"
	<u>Rx</u>	"	"	7012			6926/6213 8281	"
		"	"	7013			2182	NG
	<u>TRx</u>	JRC	J/V207PS	CB56499			C16,10	G
		BACER	50MG	5006			--	DER
<u>BIAK</u>	<u>Tx</u>	ZEIST HOLLAND	HB-159T	--	1963	100	2706	NG
	<u>Rx</u>	INTI	NRD-1061S	--	1980	--	200 KHz-29 MHz	G
		PHILIPS	8RD501/50	--	1960	--	200 KHz-31 MHz	NG
	<u>TRx</u>	YAESU	F-T-300C	--	1979	--	2182/6221.6/ 8437	G
		"	"		"		2182/6221.6/ 8372.8	"
		MARCONI	CH-25		1970		6926/6213	NG
<u>MANOK- WARI</u>		PHILIPS	BX925A	1041	--	--	--	"
		JRC	NTD-177	BS14336	1974	125	5316/6926 9925/10225	G
		"	"	BS14335	"	"	"	"
		MARCONI	CH-25	6949	"	100	2182.5/6221.6 2148.5/6213.5 4143.6/8281.5	"
<u>KAI- KANA</u>		"	"	7020	1962	"	2182/6213.5 2148/8281 4139.5/6926	"

Note:

G = Good, NG = No Good, DER = Out of Order, NU = No Used, SPR = Spare

FREQUENCIES FOR SAR OPERATING COAST STATIONS

Item	Type of Emission	Frequency (Band)	A-class	B-class	Remarks
Mobile	ALA, A2A	500 kHz MF freq. for communications 512 kHz	0	0	
	J3E, R3E ALA, J3E	2182 kHz 1800--3900 kHz 3023 kHz	0	0	one freq each of ALA, J3E commonly used freq for SAR
		4--4.65 MHz	0	0	one freq each of ALA, J3E
		6,215.5 MHz 5.2--6,525 MHz	0	0	support freq for J3E 2182 ALA, J3E
		8,195--8,815 MHz	0		ALA, J3E
		12,230--13,200 MHz	0		"
		16,360--17,410 MHz	0		"
		22,000--22,855 MHz	0		"
		F3E 154--174 MHz Ch 16	0	0	
		4,438--5,480 MHz	0	0	
(For Direction- Finding Stations) P-P	ALA	7,300--8,195 MHz	0	0	
	ALA, A2A A3E	500 kHz 2,182 kHz 6,215.5 kHz Radio Buoy	0 0 0 0	0 0 0 0	
SAR					

List A: RADIO COMMUNICATIONS INSTALLATIONS FOR
SAR OPERATING COAST STATIONS (Except those given in List B)

Installation	Station	A-class	B-class	Direction-Finding Station	KPLP Detachment
5 KW HF MH Telegraph/Telephone		2 [*] set			
1 KW HF MF Telegraph/Telephone		1 [*]			
" " " "		3			
0.5 kW " "			2	1	
Spot RX(6 x freq)		2	1	1	
Allw RX		2	1	1	
Operation Console	a	1	b	c	
UHF Link		2	2	1	
V F T		1	1		
VHF T/R 5Ch		2	2		1
Power Supply		1	1	1	
DF RX		1	1	1	
DF Monitor Console		1	1	1	
Antenna Tower/ Transmitting	a	2	b	b	
Antenna Tower/ Receiving	a	2	2		
Mast Pole for VHF					1
ARQ		1			
Teleprinter		2			
Rocke Ant & Earthing for DF		1	1	1	
Ant Expansion & Earthing		1	1	1	
DF Hut		1	1	1	
Measuring Instruments		1	1	1	
Spares		1	1	1	

Note: * shows (Jakarta)

List B: RADIO COMMUNICATIONS INSTALLATIONS FOR THE
B-CLASS COAST STATIONS GIVEN IN THE REMARKS BELOW

Installation	Station	B-class	Remarks
1 KW HF MF Telegraph/telephone		3	Sibolga
0.5 KW	"	4	TG Uban
Spot RX (6 x freq)		1	Ampenan
ALLW RX		1	Samarinda
Operation Console		1	Ternate
UHF Link		2	Blak
Power Supply		1	
DF RX		1	
DF Monitor Console		1	
V F T		1	
VHF T/R 5Ch		2	
Antenna Tower/Transmitting		1	
Antenna Tower/Receiving		1	
Conical Monopole		1	
Rocke Ant & Earthing for DF		1	
Ant Expansion & Earthing		1	
DF Hut		1	
Measuring Instruments		1	
Spares		1	

SEA AND COAST GUARD (KPLP)

The organization of KPLP is as follows:

Headquarters.....Directorate of KPLP is under the
Directorate General of Sea Communications

District
Headquarters.....District Directorate of KPLP is under
the District Directorate General of
Sea Communications

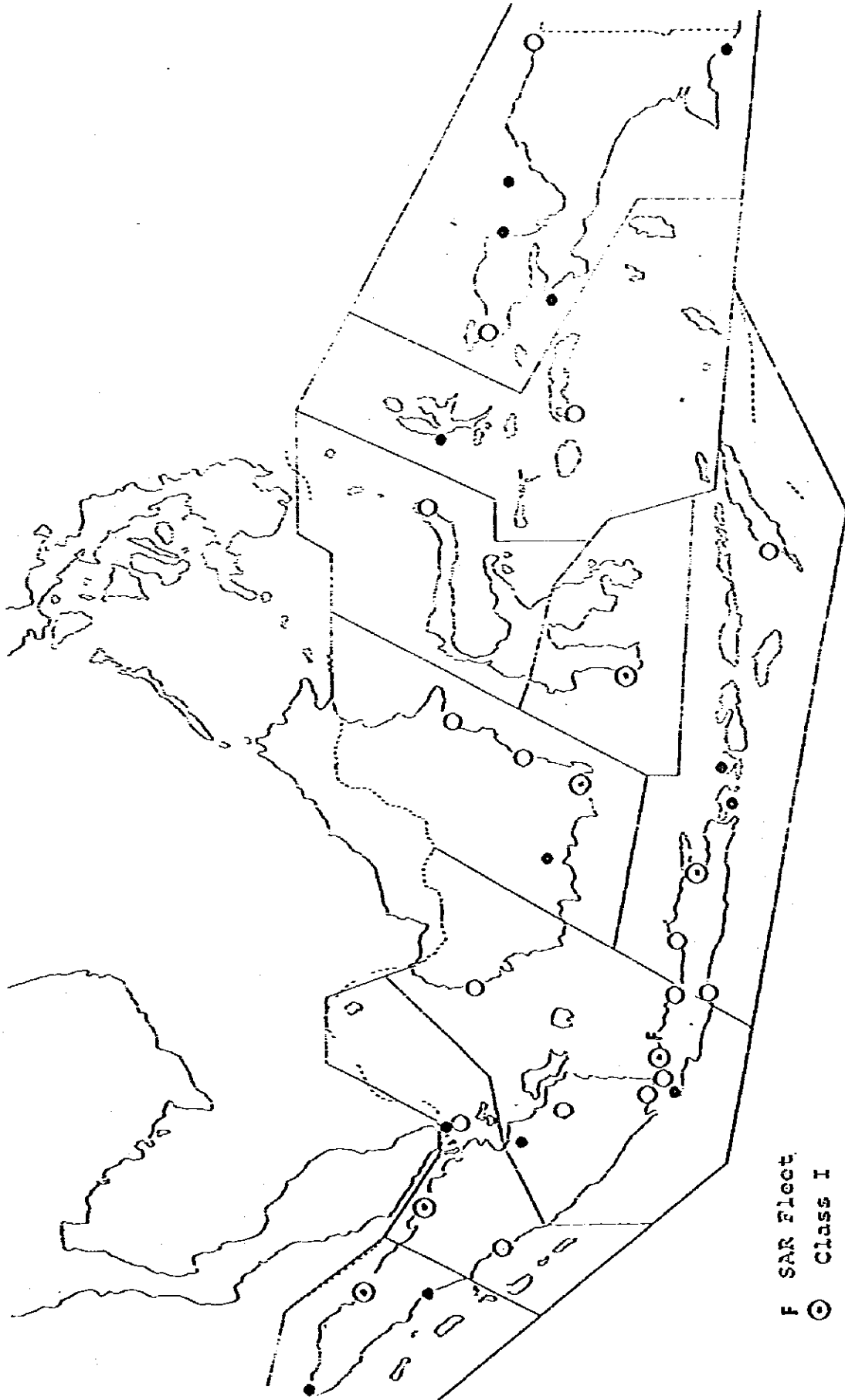
Detachment.....There are more than 30 KPLP Detachments located
throughout Indonesia

KPLP is responsible for the safety in ports, harbors, waterways, at sea and on coast, and for securing the maritime order, and also is the maritime SAR task force in Indonesia.

The nine SAR ships, belonging to the Central SAR Fleet, are being delivered from the shipyards in 1981 to 1982, and will be despatched on long term basis to some District Headquarters as SAR task force.

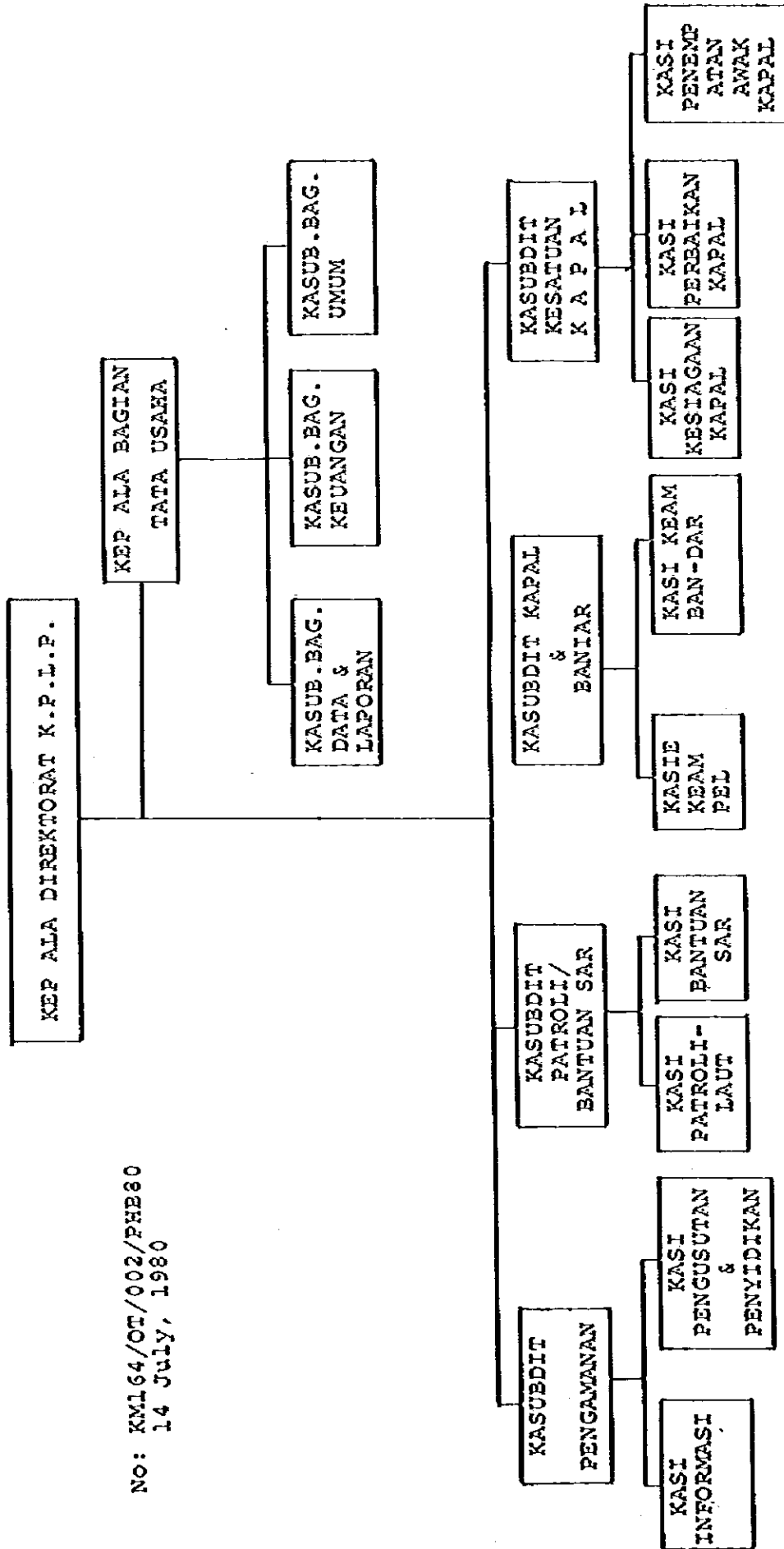
The Detachments are based at the main ports, and consist of the three classes of I, II and III, each of which is in charge of 750 miles, 750-1,500 miles and more than 1,500 miles ranges respectively to cover the whole waters of Indonesia.

ALLOCATION OF KDLP DETACHMENTS



- F SAR Fleet
- Class I
- " II
- " III

ORGANIZATION CHART OF K.P.L.P.
 STRUKTUR ORGANISASI DIREKTORAT KESATUAN PENJAGAAN LAUT DAN PANTAI (K.P.L.P.)
 KANTOR PUSAT DIREKTORAT JENDERAL PERHUBUNGAN LAUT



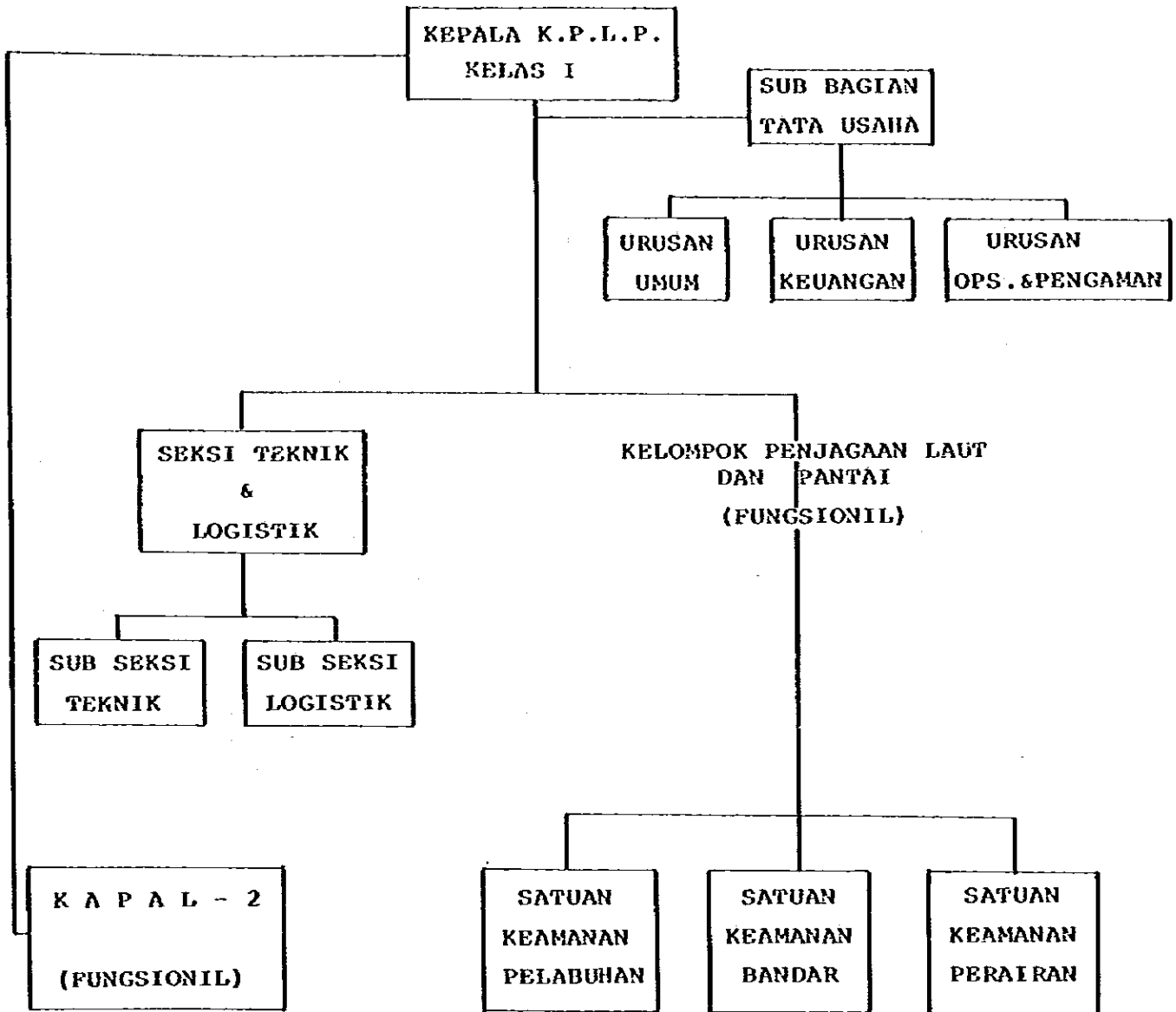
No: KML64/OT/002/PHB80
 14 July, 1980

BAGAN ORGANISASI KESATUAN PENJAGAAN LAUT DAN PANTAI (KPLP)

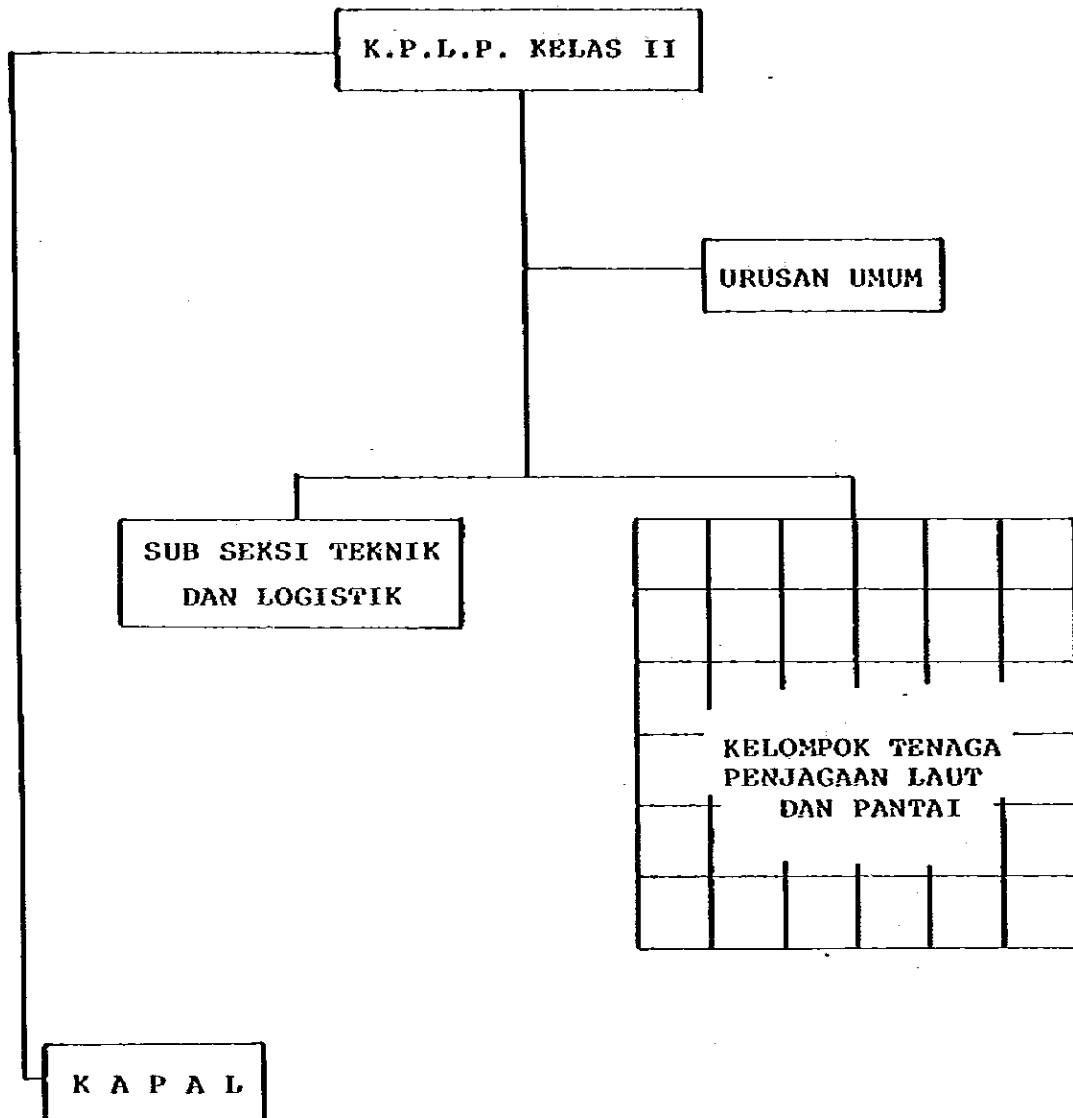
KELAS - I

DIREKTORAT JENDERAL PERHUBUNGAN LAUT

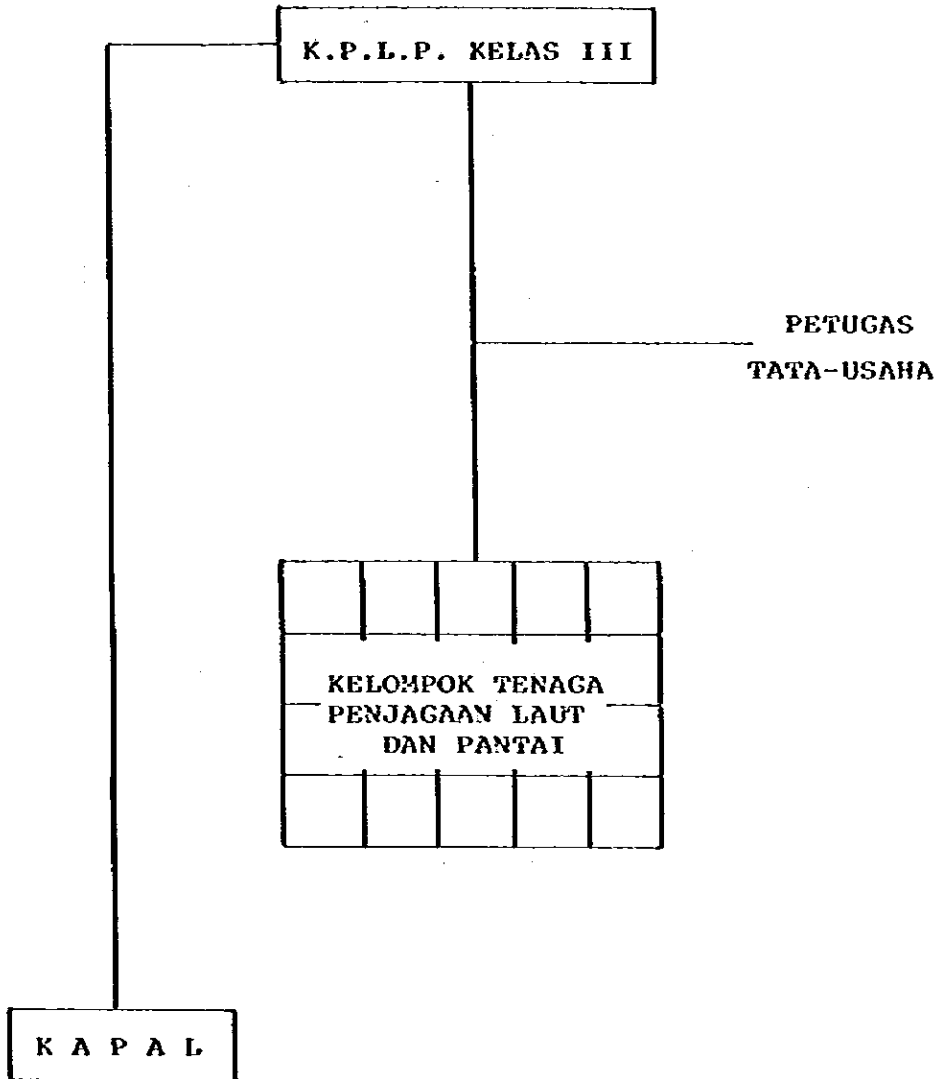
DEPARTEMEN PERHUBUNGAN



BAGAN ORGANISASI KESATUAN PENJAGAAN LAUT DAN PANTAI
(K.P.L.P.) KELAS II
DIREKTORAT JENDERAL PERHUBUNGAN LAUT
DEPARTEMEN PERHUBUNGAN



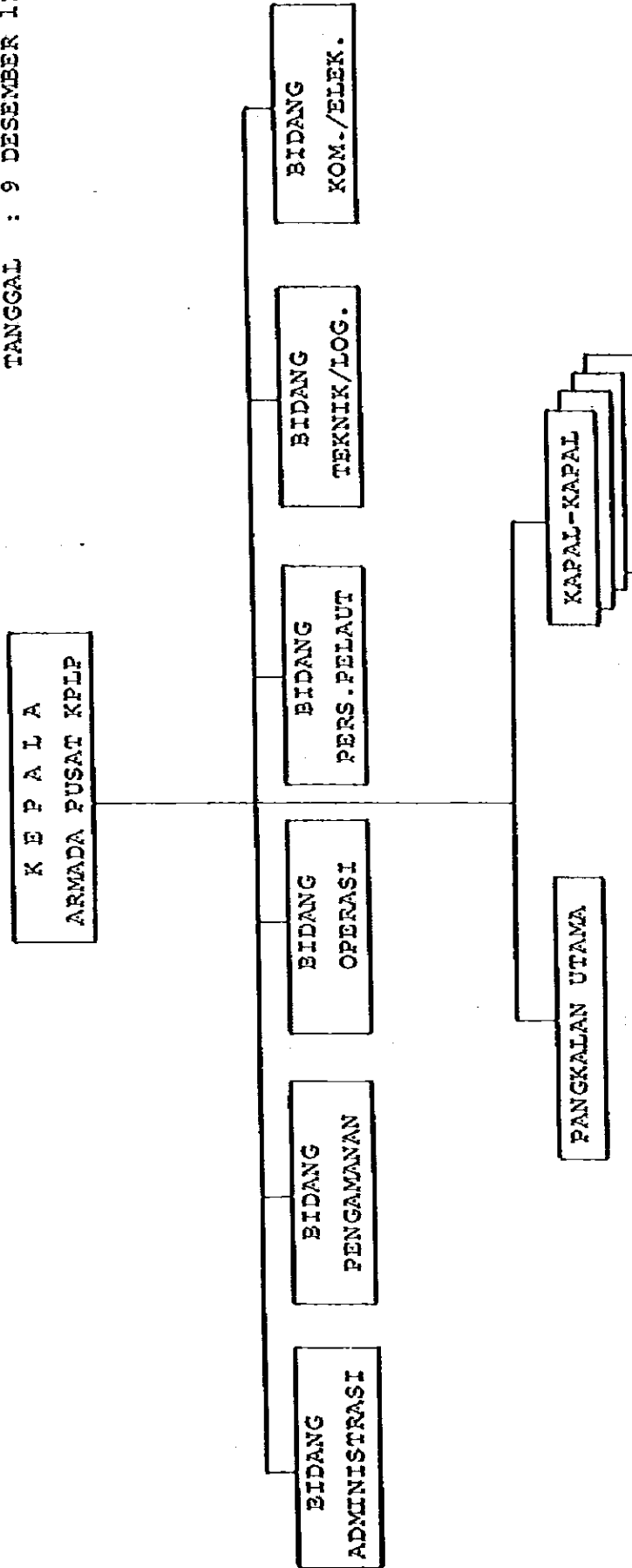
BAGAN ORGANISASI KESATUAN PENJAGAAN LAUT DAN PANTAI
(K.P.L.P.) KELAS III
DIREKTORAT JENDERAL PERHUBUNGAN LAUT



BAGAN ORGANISASI
SATUAN TUGAS RAMADA PUSAT DIREKTORAT KPLP

LAMPIRAN - II

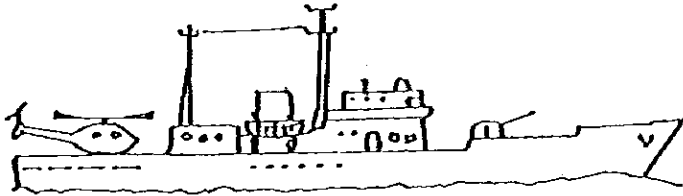
S.K. DIRJEN. PERHUBUNGAN LAUT
NOMOR : DLR. 97/2/2.
TANGGAL : 9 DESEMBER 1980.



FASILITAS KAPAL-KAPAL DAN SAR
KPLP DI SELURUH INDONESIA
-Number of KPLP SAR Ships and SAR Facilities-

NOMOR	L O K A S I	KELAS KAPAL					JML	FASILITAS SAR
		I	II	III	IV	V		
I.	PUSAT JAKARTA	-	9	-	-	-	9	1 UNIT
II.	<u>KANWIL I BELAWAN</u>							
	1. ULEE LHEUE	-	-	-	1	-	1	--
	2. BELAWAN	-	1	-	1	4	6	1 UNIT
	3. SIBOLAGA	-	-	-	1	1	2	--
III.	<u>KANWIL II DUMAI</u>							
	1. DUMAI	-	-	3	4	1	8	1 UNIT
	2. TG. UBAN	-	1	1	-	1	3	1 UNIT
	3. TG. PINANG	-	-	1	1	1	3	--
	4. TELUKMAYUR	-	-	-	1	2	3	1 UNIT
IV.	<u>KANWIL III TPK</u>							
	1. TG. PRIOK	-	-	3	4	1	8	1 UNIT
	2. PONTIANAK	-	-	2	1	-	3	1 UNIT
	3. CIREBON	-	-	-	1	1	2	--
	4. SUNDAKLAPA	-	-	1	1	-	2	--
	5. PALEMBAND	-	-	-	1	1	2	1 UNIT
	6. JAMBI	-	-	-	1	1	2	--
	7. MERAK	-	-	-	1	1	2	--
	8. PANJANG	-	-	-	1	1	2	--
V.	<u>KANWIL IV SBA</u>							
	1. SURABAYA	-	-	2	2	2	6	1 UNIT
	2. SMERANG	-	-	-	1	1	2	--
	3. CILACAP	-	-	-	1	1	2	--
	4. BENOA	-	-	-	1	1	2	--
	5. AMPENANA	-	-	-	-	1	1	--
	6. KUPANG	-	-	-	-	1	1	--
VI.	<u>KANWIL V BMASIN</u>							
	1. BANJARMASIN	-	-	-	2	-	2	--
	2. SAMARINDA	-	1	1	1	1	3	1 UNIT
	3. SAMPIT	-	-	-	1	-	1	--
	4. BALIKPAPAN	-	-	-	1	-	1	--
VII.	<u>KANWIL VI U.P.</u>							
	1. U.PANDANG	-	-	1	2	2	5	--
VIII.	<u>KANWIL VII HDO</u>							
	1. MANADO/BTG	-	1	-	1	1	3	1 UNIT
IX.	<u>KANWIL VIII AMBN</u>							
	1. AMBON	-	-	1	1	4	6	1 UNIT
X.	<u>KANWIL IX JRA</u>							
	1. JAYAPURA	-	-	1	4	-	5	--
	2. SORONG	-	-	1	-	-	1	--
	3. BIAK	-	-	1	-	-	1	--
	4. MANOKWARI	-	-	-	1	-	1	--
	5. MERAUKE	-	-	2	-	-	-	1 UNIT
	6. FAK-PAK	-	-	-	-	-	-	--

FASILITAS KAPAL-KAPAL PATROLI & SAR KPLP
 -Criteria of KPLP SAR Ships-



KLAS I : a) Length: >45m
 b) Operation Area: Open Sea
 c) Main Proportions:
 6000H

C R E W
 DECK : < 21 orang
 MESIN : < 12 "
 RADIO : < 3 "
 (Sesuai Tonnage Kapal)



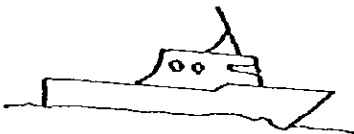
KLAS II : a) Length: 35 ~ 45m
 b) Operation Area: Indonesian Waters
 c) Main Proportions:
 3000 ~ 6000H

C R E W
 DECK : 12 orang
 MESIN : 8 "
 RADIO : 2 "



KLAS III : a) Length: 20 ~ 35m
 b) Operation Area: Offshore
 c) Main Proportions:
 800 ~ 1200H

C R E W
 DECK : 10 orang
 MESIN : 6 "
 RADIO : 1 "



KLAS IV : a) Length: 10 ~ 20m
 b) Operation Area: Coastal
 c) Main Proportions:
 400 ~ 800H

C R E W
 DECK : 7 orang
 MESIN : 4 "
 RADIO : 1 "



KLAS V : a) Length: 5 ~ 10m
 b) Operation Area: River/
 Harbor Area
 c) Main Proportions: < 400H

C R E W
 DECK : 3 orang
 MESIN : 3 "
 RADIO : --

LIST OF KPLP PERSONNEL

<u>CENTRAL:</u>		<u>STAFF</u>	<u>SEA PATROL</u>	<u>TOTAL</u>			
Central Fleet Task Force		74	161	235			
<u>DETACHMENTS:</u>		<u>STAFF</u>	<u>PORT SECURITY</u>	<u>HARBOUR PATROL</u>	<u>SEA PATROL</u>	<u>TOTAL</u>	<u>REMARKS</u>
District I							(Harbour Master)
1.	Belawan(I)	23	201	14	23	271	(I)Belawan
2.	Sibolga(III)	6	23	8	-	37	(III)Ulee Lheue Sabang
3.	Ulee Lheue(III)	7	22	-	-	29	Sibolga Kuala Tanjung
District II							
4.	Dunai(I)	25	23	24	46	118	(I)Dunai
5.	Tanjung Uban(II)	29	26	10	45	110	(II)Tanjung Pinang Teluk Bayur
6.	Tanjung Pinang(III)	1	9	-	4	14	(III)Pekanbaru Pulau Sarbu
7.	Teluk Bayur(II)	5	24	6	-	35	Tanjung Uban
District III							
8.	Tanjung Priok(I)	93	547	35	72	747	(I)Palembang Tanjung Priok
9.	Pontianak(II)	27	33	5	26	91	(II)Cirebon
10.	Cirebon(II)	10	33	7	-	50	(III)Panjang Bengkulu
11.	Sunda Kelapa(II)	20	61	10	36	127	Jarbi
12.	Palembang(II)	13	32	11	-	56	Sunda Kelapa Pontianak
13.	Jarbi(III)	5	16	6	-	27	Cigading
14.	Kerak(III)	3	18	10	-	31	
15.	Panjang(II)	5	36	4	-	45	

	<u>STAFF</u>	<u>PORT SECURITY</u>	<u>HARBOUR PATROL</u>	<u>SEA PATROL</u>	<u>TOTAL</u>	<u>REMARKS</u>
District IV						
16. Tanjung Perak /Surabaya (I)	34	121	22	46	223	(I) Surabaya
17. Semarang(II)	27	48	8	-	83	(II) Semarang
18. Cilacap(II)	6	10	2	-	18	(III) Ampenan /Lemban
19. Benoa(III)	5	11	6	-	22	Benoa
20. Lemban/Ampenan(III)	1	10	-	-	11	Cilacap
21. Kupang(II)	8	5	4	-	17	Kupang
District V						
22. Banjarmasin(I)	30	66	15	-	111	(II) Banjarmasin
23. Samarinda(II)	10	15	-	37	62	Balikpapan
24. Sampit()	10	7	4	-	21	Samarinda
25. Balikpapan(II)	9	18	6	-	33	(III) Pl'ngkaraya
						Tanjung Sentar
						Bontang
District VI						
26. Ujung Pandang(I)	27	68	32	-	127	(I) Ujung Pandang
						(III) Kendari
District VII						
27. Manado/Bitung(II)	23	84	11	26	144	(II) Manado/Bitung
						(III) Donggala
District VIII						
28. Ambon(II)	22	60	49	-	131	(II) Ambon
29. Ternate						
District IX						
30. Jayapura(II)	14	24	5	18	61	(II) Jayapura
31. Sorong(II)	10	13	7	10	40	(III) Biak
32. Biak(III)	5	11	-	10	26	Sorong
33. Manokwari(III)	5	4	4	-	13	
34. Merauke(III)	4	10	6	12	32	
35. Fak-fak(III)	6	5	8	-	19	

Note: () shows Klass. of Harbor Master

KRITERIA KLASIFIKASI KPLP
 -Criteria Classification of KPLP Detachments-

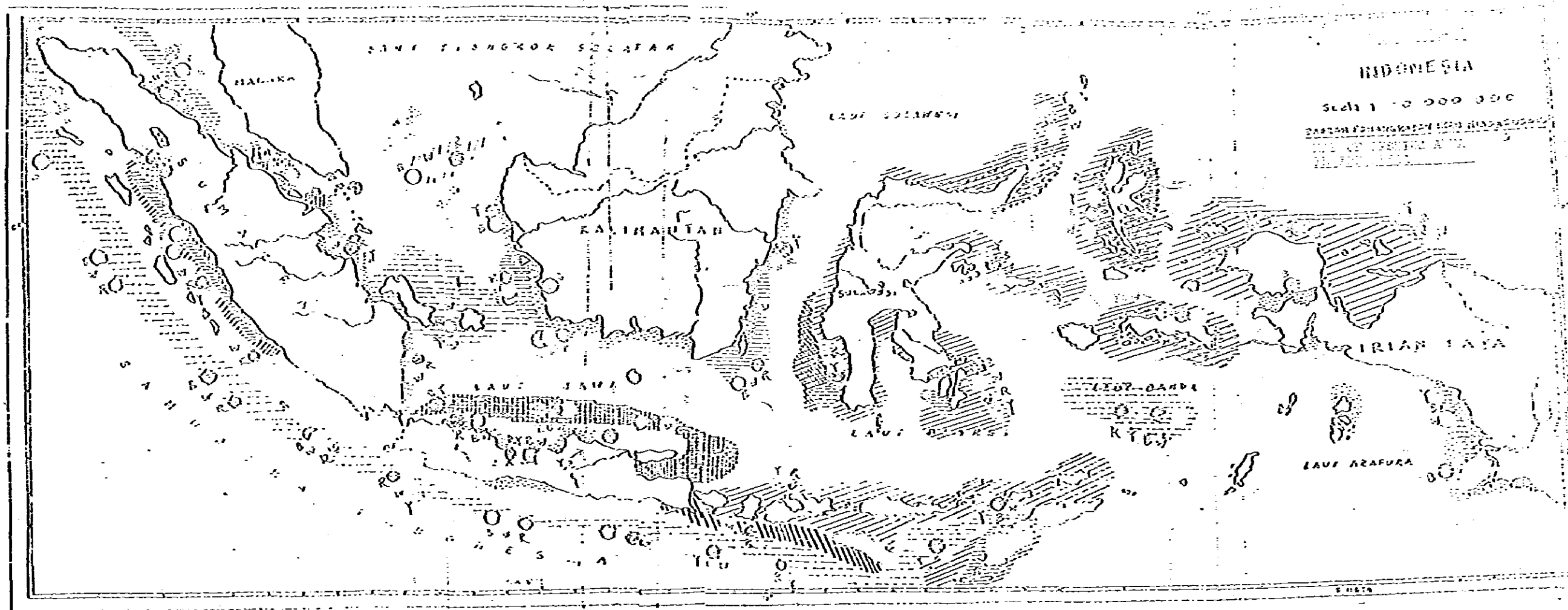
No.	PERSYARATAN	% Bobot	KPLP KLAS I	KPLP KLAS II	KPLP KLAS III	KETERANG
1	2	3	4	5	6	7
1.	<u>OPERASIONAL</u> A. Pelabuhan B. Bandar C. Perairan 1) Luas Perairan 2) Mengawasi SDN 3) Bantuan SAR di Laut 4) Proteksi lingkungan hukup perairan	50%	Pelab.Kls. I/II Kesyahb.Kls. I/II radius > 1500 mil > 200 bh. Koordinasi dengan KKR/SKR radius 1500 mil	Pelab.Kls. II/III Kesyahb.Kls. II/III radius 750 mil - 1500 mil < 200 bh. koordinasi dengan KKR/SKR radius 750 mil - 1500 mil	Pelab.Kls. III/IV Kesyahb.Kls. III/IV radius < 750 mil - - radius 750 mil	
2.	<u>FASILITAS PENUNJANG</u> A. KAPAL 1) Kapal Patroli Kelas I 2) " " " " II 3) " " " " III 4) " " " " IV 5) " " " " V B. BANGUNAN DARAT 1) Kantor (Kamar Pemeriksa) 2) Gudang Perlatan (Alat SAR, Permakanan Perlongkapan Kapal 6 Sonjata) 3) Dermaga/Pangkalan Kapal 4) Bengkel Pemeliharaan Kapal 5) Asrama Punggahan Anak Buah Kapal (ADK) C. PERALATAN 1) SAR 2) Penyidikan 3) Telekomunikasi 4) Pemadam Kebakaran 5) Personel 6) Kendaraan Patroli Darat	50%	> 1 bh. > 2 bh. > 5 bh. > 4 bh. > 400 M2 > 180 M2 > 150 M 200 M2 30 Org.	- min 1 bh. min 2 bh. min 3 bh. min 3 bh. > 300 M2 > 125 M2 > 100 M 150 M2 20 Org.	- min 1 bh. min 2 bh. min 2 bh. > 200 M2 < 125 M2 < 50 M 100 M2 10 Org.	2 unit 1 unit 1 unit 1 unit < 80 pucuk > 3 bh.
	J U M S A H	100%				



Table: NUMBER OF MARINE ACCIDENTS OCCURRED

	1978*		1979*		1980*		Remarks
	No. Occur'd	No. Plot'd	No. Occur'd	No. Plot'd	No. Occur'd	No. Plot'd	
Jan.	4	2	21	13	35	24	Source: Direktorat Perkapalan dan Pelayaran Sub Direktorat Kebandaran dan Awak Kapal Notes: * Number of the accidents plotted on the "waters where Marine Accidents Occurred. **Percentage of the accidents plotted in relation to those occurred.
Feb.	22	15	33	14	30	21	
Mar.	28	20	28	21	24	17	
Apr.	32	25	19	13	17	13	
May	64	42	23	18	28	17	
Jun.	18	15	31	23	32	25	
Jul.	25	21	27	22	33	26	
Aug.	47	26	21	15	35	27	
Sept.	30	22	40	19	30	18	
Oct.	38	29	45	34	35	25	
Nov.	23	16	26	19	29	19	
Dec.	53	41	29	20	18	11	
Total	384	(71%)** 274	343	(67%)** 231	346	(70%)** 243	

MAP OF FISHING AREA IN INDOENSIA



Legenda Peta Daerah Perikanan Ikan Besar dan Udang

Musim 2 ikan

R ⊙ Bulan 1-3

Y ⊙ " 4-6

G ⊙ " 7-9

V ⊙ " 10-12

⊠ TUNA

▨ CAKALANG

⊞ UDANG

▧ KAMBUNG

▩ EKOR KUNING

▤ IKAN BUAH

▥ LAYANG, MERSUNG, BAYAL

▦ TORANI

▧ ANCHOVY (

▨ SELUNG, HALALURIS



Source: Fisheries Statistics of Indonesia, 1978

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Table 2.3 Jumlah perahu/batal perikanan perahu umum menurut kategori dan Propinsi, 1978
Table 2.3 Number of inland open water fishing boats by size and Province, 1978

Propinsi Province	Jumlah Total	Perahu tanpa motor - Non powered boat				Motor tempal Outboard motor	Kapel motor Inboard motor
		Jahung Dug out	Perahu papan - Plank build boat				
			Kecil-Small	Sedang-Medium	Besar-Large		
Jumlah - Total	121 858	68 568	43 247	6 649	305	2 898	191
SUMATERA							
DI. Aceh	44 792	11 722	22 924	2 924	182	21	-
Sumatara Utara	1 083	559	141	231	152	-	-
Sumatara Barat	10 468	4 515	5 885	68	-	-	-
Riau	980	715	265	-	-	-	-
Jambi	10 976	-	10 976	-	20	19	-
Sumatara Selatan	1 818	343	864	541	17	-	-
Bengkulu	17 235	5 013	10 719	1 486	-	-	-
Lampung	65	-	65	-	-	5	-
JAWA	2 165	544	1 011	575	10	-	-
DKL Jakarta	1 564	2 842	2 226	206	82	-	-
Jawa Barat	-	-	-	-	-	-	-
Jawa Tengah	1 317	32	988	269	37	-	-
DI Yogyakarta	1 535	815	343	354	43	-	-
Jawa Timur	-	1 995	1 605	112	-	-	-
BALI-NUSANTENOGARA							
Bali	221	521	-	-	-	-	-
Nusantengas Barat	298	202	-	-	-	-	-
Nusantengas Timur	202	21	-	-	-	-	-
Tinjar Timur	21	-	-	-	-	-	-
KALIMANTAN							
Kalimantan Barat	52 044	43 121	10 224	2 958	261	2 444	191
Kalimantan Tengah	5 129	115	3 036	1 933	25	3	-
Kalimantan Selatan	22 306	18 071	3 678	371	-	-	-
Kalimantan Tenggara	25 223	25 006	217	-	-	-	-
Kalimantan Timur	6 386	-	3 301	644	-	2 441	-
SULAWESI							
Sulawesi Utara	9 797	2 327	85	-	-	385	-
Sulawesi Tengah	3 128	3 128	-	-	-	-	-
Sulawesi Selatan	633	629	-	-	-	13	-
Sulawesi Tenggara	5 498	5 036	85	-	-	372	-
MALUKU-RIAU JAWA							
Maluku	1 149	227	24	54	18	37	-
Irian Jaya	825	825	74	54	18	37	-

PERIKANAN LAUT/MARINE FISHERIES
 Source: Fisheries Statistics
 of Indonesia, 1978
 Page 20

Tabel 1.3 Jumlah perahu/kapal penangkap menurut kategori, daerah provinsi dan Propinsi, 1978
 Table 1.3 Number of fishing boats by size, coastal area and Province, 1978

Provinsi Coastal area	Propinsi Province	Kategori perahu/kapal - Size of fishing boats													
		Perahu tanpa motor - Non powered boat					Kapal motor - Inboard motor								
		Sub Total	Jukung Dug out boat	Kecil Small	Sedang Medium	Besar Large	Motor tempel Out board motor	Sub Total	< 5GT	5-10 GT	10-20 GT	20-30 GT	30-50 GT	50-100 GT	100-200 GT
Jumlah - Total															
Jumlah - Total															
BARAT SUMATERA	Sub Total	14,432	5,152	5,112	1,551	1,315	874	526	150	220	142	232	128	78	50
	D.I. Aceh	2,534	1,652	1,279	348	401	336	147	60	26	57	-	-	-	-
	Sumatera Utara	7,426	2,204	2,349	379	23	141	81	18	41	22	-	-	-	-
	Sumatera Barat	3,962	3,346	1,098	584	686	362	254	55	127	68	-	-	-	-
SELATAN JAWA	Sub Total	6,037	2,142	2,026	292	25	929	211	62	40	47	-	-	-	-
	D.I. Aceh	2,488	1,771	779	524	468	573	144	40	67	-	-	-	-	
	Jawa Tengah	1,419	1,118	1,029	57	32	212	89	-	-	-	-	-	-	
	D.I. Yogyakarta	2,130	1,986	1,354	382	267	144	-	-	202	-	-	-	-	
SELAT MALAKA	Sub total	29,556	-	15,918	5,695	1,931	3,650	5,410	2,644	766	682	62	62	-	-
	D.I. Aceh	3,293	2,301	1,162	623	516	388	604	277	60	30	-	-	-	
	Sumatera Utara	11,115	9,324	7,016	2,273	35	60	1,731	1,051	227	157	3	-	-	
	Riau	15,148	11,941	7,760	2,799	1,382	112	3,095	2,316	329	15	44	69	-	
TIMUR SUMATERA	Sub total	10,797	3,621	5,202	1,868	310	1,102	1,074	944	85	22	-	-	-	-
	Jambi	950	487	292	158	57	30	433	407	4	7	-	-	-	
	Sumatera Selatan	7,645	6,288	239	4,630	125	888	489	417	61	11	-	-	-	
	Lampung	2,182	1,846	397	785	148	184	152	120	20	1	-	-	-	
UTARA JAWA	Sub total	52,564	7,228	13,392	22,885	4,811	2,132	2,102	216	568	751	153	24	2	-
	D.I. Aceh	4,777	1,719	524	83	81	74	998	180	434	57	7	-	-	
	Jawa Barat	10,072	9,629	243	5,972	493	174	2,921	21	63	87	7	-	-	
	Jawa Tengah	12,712	11,530	4,981	3,373	648	505	677	15	169	127	17	20	4	
BALI-NUSA TENGGARA TIMOR	Sub total	28,003	26,457	1,985	7,424	13,457	3,591	1,67	-	12	119	16	1	18	-
	Bali	27,141	26,341	22,279	2,864	674	227	72	32	4	4	-	-	-	
	Nusa Tenggara Barat	10,445	10,062	10,062	-	-	355	28	2	-	-	-	-	-	
	Nusa Tenggara Timur	9,916	9,717	5,978	2,864	675	190	33	4	-	-	-	-	-	
SELATAN/ BARAT KALU- MANTAN	Sub total	8,020	5,989	712	3,000	121	504	1,522	1,072	395	38	-	-	-	-
	Kabupaten Barat	4,279	2,950	318	1,311	123	504	963	572	31	16	-	-	-	
	Kabupaten Tengah	3,541	2,999	394	1,662	943	-	542	505	8	-	-	-	-	
	Timor Timur	10,059	6,645	555	2,622	162	2,022	1,353	1,222	28	12	20	10	10	
SULAWESI SELATAN	Sub total	1,097	2,263	553	779	87	265	969	815	11	7	-	-	-	-
	Kabupaten Selatan	6,562	4,382	1,897	2,398	87	1,764	416	307	5	3	-	-	-	
	Kabupaten Timur	26,672	21,895	16,854	10,252	4,828	2,237	1,311	42	4	4	4	3	3	
	Sulawesi Selatan	24,748	21,942	7,192	9,493	3,893	2,688	1,118	47	10	10	10	10	10	
SULAWESI UTARA	Sub total	11,925	11,863	9,662	1,266	935	49	13	13	13	13	13	13	13	13
	Sulawesi Utara	23,302	22,778	16,250	3,360	2,555	613	62	-	-	-	-	-	-	
	Sulawesi Tengah	14,194	13,599	9,668	1,604	1,753	535	62	-	-	-	-	-	-	
	Sulawesi Tenggara	9,306	9,179	6,582	1,756	802	127	-	-	-	-	-	-	-	
MALUKU/ IRIAN JAYA	Sub total	20,224	22,746	22,107	1,682	1,431	970	216	-	4	20	8	11	11	11
	Maluku	23,694	22,957	18,487	2,761	1,188	597	140	-	32	32	32	32	32	
	Irian Jaya	5,238	4,789	3,610	921	243	373	76	-	29	29	29	29	29	
	Irian Jaya	5,238	4,789	3,610	921	243	373	76	-	29	29	29	29	29	

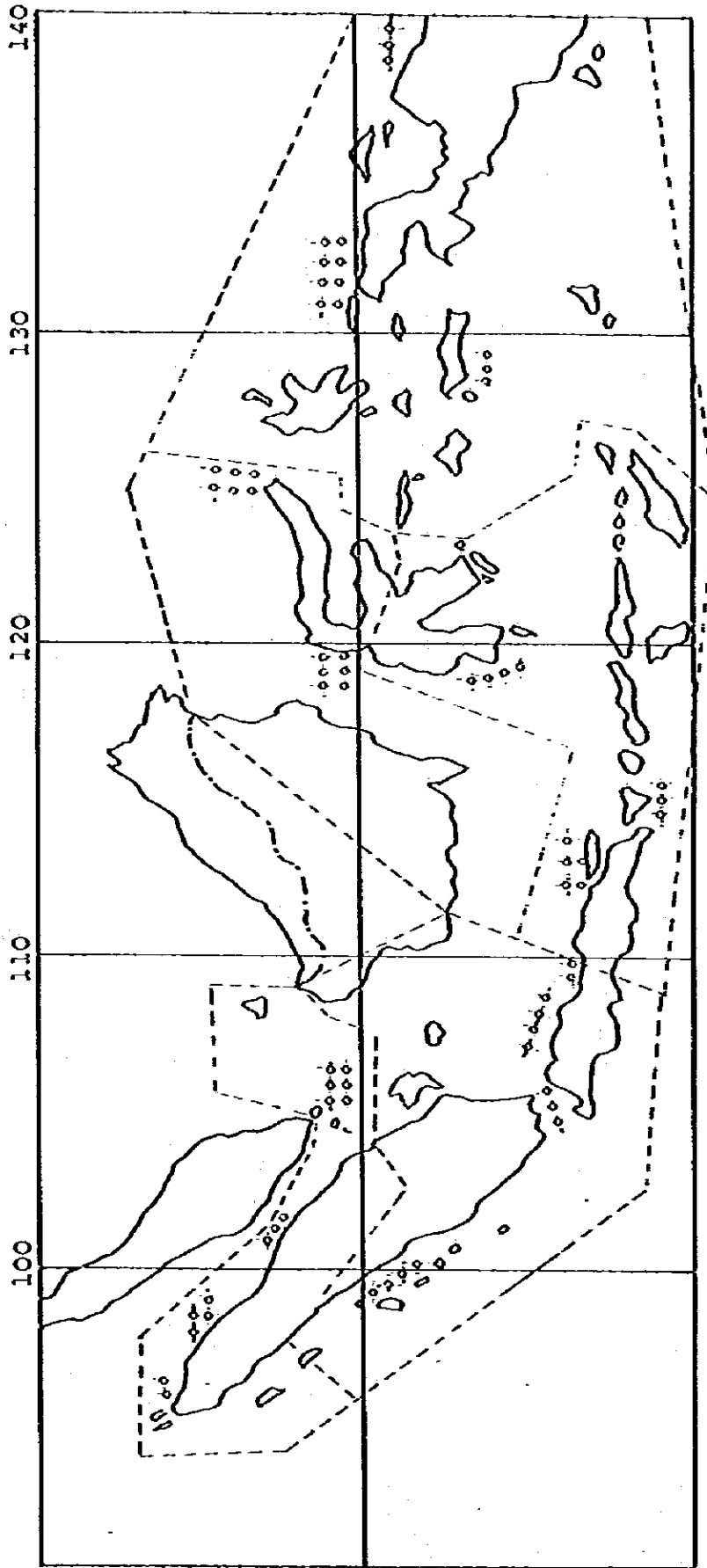
Source: Fisheries Statistics of Indonesia, 1978
Page 16

Table 02 Produk menurut sub sektor perikanan dan Propinsi, 1978¹⁾
Fishing production by sub sector of fishery and Province, 1978¹⁾

Unit: Ton

Propinsi Province	Jumlah Total	Perikanan Laut Marine Fishery	Perikanan darat - Inland fishery						Sub Total	Kotakan Fresh water pond	Keramba Cage	Sawah Paddy field
			Sub Total	Perairan Umum Open water	Budidaya - Culture			Sub Total				
					Tambak Brackish water pond	Kotakan Fresh water pond	Keramba Cage					
Jumlah - Total	1 647 661	1 227 386	420 278	249 146	171 132	87 995	57 680	390	25 067			
SUMATERA												
Di. Aceh	516 171	423 637	92 534	69 978	22 556	13 235	6 377	43	2 381			
Sumatera Utara	60 148	45 338	14 810	1 312	13 498	13 027	441	-	30			
Sumatera Barat	155 317	141 279	14 018	11 111	2 907	191	853	0	1 863			
Riau	23 088	16 632	6 456	2 329	4 127	1	3 985	0	141			
Jambi	139 257	129 994	9 261	9 194	67	4	43	-	-			
Sumatera Selatan	13 640	9 271	4 369	3 998	351	-	279	34	16			
Bengkulu	82 987	46 219	36 768	36 191	577	-	441	-	136			
Lampung	5 426	3 285	2 141	1 407	734	-	116	7	611			
	34 308	31 577	4 731	4 436	295	12	199	-	84			
JAWA												
DI. Jakarta	456 590	273 149	133 441	17 367	116 074	48 440	49 085	377	18 222			
Jawa Barat	27 465	26 035	1 430	-	454	-	861	-	115			
Jawa Tengah	138 655	64 242	74 413	5 618	71 943	17 455	42 965	279	11 224			
DI. Yogyakarta	119 252	97 555	21 897	5 618	16 279	13 261	2 852	0	144			
Jawa Timur	1 089	292	797	478	319	-	217	-	102			
	170 129	135 225	34 904	8 801	26 103	17 270	2 190	28	6 615			
BALI-NUSA TENGGARA												
Bali	66 147	62 850	3 297	1 136	2 161	1 193	283	-	685			
Nusa Tenggara Barat	18 613	17 870	943	438	505	38	73	-	374			
Nusa Tenggara Timur	28 077	25 926	2 151	550	1 601	1 131	182	-	288			
	19 032	18 829	203	148	55	24	28	-	3			
	225	225	-	-	-	-	-	-	-			
KALIMANTAN												
Kalimantan Barat	262 650	129 495	133 245	132 685	540	444	116	-	-			
Kalimantan Tengah	54 247	44 945	9 302	9 221	81	-	41	-	-			
Kalimantan Selatan	75 761	18 558	57 203	57 203	-	-	-	-	-			
Kalimantan Timur	78 409	34 226	44 183	44 162	21	13	8	-	-			
	54 233	31 676	22 557	22 079	458	431	27	-	-			
SULAWESI												
Sulawesi Utara	259 500	204 044	55 456	25 878	29 577	24 678	1 620	-	3 279			
Sulawesi Tengah	50 900	43 130	7 775	5 247	2 528	3	920	-	1 400			
Sulawesi Selatan	12 222	9 917	2 305	782	135	55	98	-	2			
Sulawesi Tenggara	171 837	126 618	45 219	18 586	26 633	24 562	411	-	1 660			
	23 619	22 074	1 545	1 264	281	78	191	-	12			
MALIKU-IRIAN JAYA												
Maluku	86 606	84 301	2 305	2 101	204	5	199	-	-			
Irian Jaya	66 910	65 070	1 840	1 817	23	-	23	-	-			
	19 696	19 231	465	284	181	5	176	-	-			

DISLOKASI DISTRIK NAVIGASI DAN SARANA BANTU NAVIGASI
-District Navigasi and Navigation Aids-



KETERANGAN
→ ALAT BANTU NAVIGASI
--- BATAS WILAYAH

SARANA BANTU NAVIGASI
-Number of Visual Navigation Aids-

Nomor	JENIS SARANA	ED	AGA	PROP	PG	EB	EK	JUMLAH
1.	MENARA SUAR	90	24	3	1	2	14	134
2.	RAMBU SAUR	-	154	55	-	124	20	353
3.	PELAMPUNG-SUAR	-	91	58	-	156	-	305
4.	LAMPU PELABUHAN	-	1	-	85	3	59	148
5.	ANAK PELAMPUNG	-	-	-	-	-	-	418
6.	RAMBU TANDA SIANG	-	-	-	-	-	-	579
	J U M L A H							1937

Itinerary of Survey

(1) Itinerary Prior to Field Survey by All Survey Team Members

<u>Date</u>	<u>Remarks</u>
1981:	
June 23	Courtesy calls on Mr. Sugiarto, Directorate of Navigation, and Mr. Manuputti, Sub-Directorate of Marine Electronics and Telecommunication. Consultation on survey schedules.
June 24	Exchange of views about Inception Report at Sea Communications.
June 25	Confirmation of Inception Report, and two panel discussions (one on maritime communication and the other on SAR) at Sea Communications for the purpose of activity coordination in principle between the Indonesian party and the Japanese field survey team.
June 26	Briefing about organizational outlines of KPLP, BASARNAS, KKR, SKR, etc., and SAR activities.
June 27	Visits to Tg. Priok coast station (receiving station) at Jakarta, Port Administration, KPLP and BASARNAS.

June 28	Study of collected data.
June 29	Preparations for field surveys.

(2) Group A Field Survey Itinerary

<u>Date</u>	<u>Remarks</u>
June 30	Movement from Jakarta to Banjarmasin and visit to Banjarmasin Coast Station.
July 1	Visits to Regional Sea Communications (KANWIL) V, Banjarmasin District Navigasi, KPLP, Harbor Master, Port Administration and SKR.
July 2	Movement from Banjarmasin to Balikpapan and visits to Balikpapan Coast Station, Port Administration, Harbor Master, KPLP and District Navigasi.
July 3	Movement from Balikpapan to Tarakan and visits to Tarakan Coast Station, Port Administration, Harbor Master and District Navigasi.
July 4	Movement from Tarakan to Jogjakarta.
July 5	Study of collected data.
July 6	Movement from Jogjakarta to Mataram.

July 7 Visits to Ampenan Coast Station, Lember Port Administration, Harbour Master, District Navigasi and KPLP. Movement from Mataram to Denpasar and combined study meeting of Groups A, B and C.

July 8 Three group members move from Denpasar to Jakarta. Study of collected data by two group members.

(3) Group B Field Survey Itinerary

<u>Date</u>	<u>Remarks</u>
June 30	Movement from Jakarta to Pekanbaru and visits to Pekanbaru Port Administration, Regional Sea Communications (KANWIL) II Headquarters, Dumai KPLP and Coast Station.
July 1	Visits to Dumai Coast Station, Harbor Master, Pekanbaru Airport Administration and SKR. Movement from Pekanbaru to Medan.
July 2	Movement from Medan to Banda Aceh and visit to Ulee Lheue Port Administration. (Visit to Sabang Coast Station was cancelled due to the ferry boat departure delay.)

July 3	Movement from Banda Aceh to Medan and visits to Medan SKR and Regional Sea Communications (KANWIL) I Headquarters.
July 4	Visits to Belawan Coast Station, KPLP, Harbor Master, District Navigasi and patrol boat.
July 5	Collection of data.
July 6	Movement from Jakarta to Mataram.
July 7	Movement from Mataram to Denpasar and combined study meeting of Groups A, B and C.
July 8	Four group members move from Denpasar to Jakarta. Study of collected data by two group members.

(4) Group C Field Survey Itinerary

<u>Date</u>	<u>Remarks</u>
June 30	Movement from Jakarta to Surabaya and visits to Regional sea Communications (KANWIL) IV Headquarters and Surabaya Coast Station.
July 1	Visits to Surabaya KPLP and KKR II.

(5) Group a Field Survey Itinerary

<u>Date</u>	<u>Remarks</u>
July 9	Movement from Denpasar to Ujung Pandang. (The survey schedule was changed because the seat reservations on direct flight to Jayapura were impossible until July 21, 1981.)
July 10	Movement from Ujung Pandang to Manado. Visits to Regional Sea Communications (KANWIL) VII Headquarters, Bitung Coast Station (transmitting station) and Bitung Port Administration.
July 11	Visits to Bitung Coast Station (receiving station), Manado/Bitung Harbor Master and KPLP.
July 12	Movement from Manado to Ujung Pandang.
July 13	Movement from Ujung Pandang to Palu. Visits to Donggala Coast Station and Pantoloan New Port.
July 14	Consultation with Donggala Harbour Master. Movement from Palu to Ujung Pandang.
July 15	Movement from Ujung Pandang to Ambon. Visit to Ambon Coast Station (receiving station).

July 16 Visits to the Regional Sea Communications (KANWIL) VIII Headquarters, District Navigasi, Port Administration, KPLP, Coast Station (transmitting station) and the scheduled site of new receiving station.

July 17 Visit to Ambon SKR. Movement from Ambon to Sorong.

July 18 Visits to Sorong District Navigasi, Coast Station, KPLP, Port Administration Office and the scheduled site of new coast station.

July 19 Movement from Sorong to Biak.

July 20 Visits to Biak Coast Station, KPLP, Harbor Master, Port Administration and KKR.

July 21 Movement from Biak to Jayapura.

July 22 Visit to Jayapura Coast Station.

July 23 Visits to Regional Sea Communications (KANWIL) IX Headquarters, Harbor Master and 5th District Air Communications Headquarters.

July 24 Movement from Jayapura to Merauke.

July 25	Visits to Merauke Coast Station, District Navigasi, KPIP and SKR.
July 26	Study of collected data.
July 27	Study of collected data (because of cancellation of July 27 flight to Jayapura).
July 28	Movement from Merauke to Jayapura.
July 29	Visit to PALAPA Satellite System Earth Station (because of cancellation of July 29 flight to Sorong).
July 30	Movement from Jayapura to Sorong and overnight stay at Sorong to wait for flight to Jakarta.
July 31	Movement from Sorong to Jakarta via Ujung Pandang.
August 1	Study of collected data. Report of return from field surveys to Mr. Sugiarto, Directorate of Navigation.
August 2 - 5	Study of collected data.

(6) Group b Field Survey Itinerary

<u>Date</u>	<u>Remarks</u>
July 9 - 10	Study of collected data.
July 11	Ditto. Consultation with Indonesian Counterparts about field survey schedule.
July 12	Trip to Kupang denied at Denpasar Airport. Movement from Denpasar to Cilacap via Jogjakarta. Consultation about survey schedule.
July 13	Visits to Cilacap District Navigasi, Coast Station, Harbor Master, Port Administration, pilot station and KPLP. Movement from Cilacap to Cirebon.
July 14	Visits to Cirebon Coast Station, District Navigasi, Harbor Master and KPLP. Movement from Cirebon to Bandung.
July 15	Movement from Bandung to Jakarta.
July 16 - 20	Study of collected data.
July 21	Movement from Jakarta to Panjang. Visits to Panjang Coast Station and KPLP.

July 22 Movement from Panjang to Jakarta.

July 23 Movement from Jakarta to Pontianak.
Visits to Pontianak Coast Station,
District Navigasi, pilot station
and KPLP.

July 24 Movement from Pontianak to Medan
via Jakarta.

July 25 Movement from Medan to Sabang.
Visits to Sabang Coast Station and
District Navigasi.

July 26 Movement from Sabang to Medan.

July 27 Movement from Medan to Padang.
Visit to Teluk Bayur Coast Station.

July 28 Visits to Teluk Bayur District
Navigasi, KPLP, Port
Administration and pilot station.
Movement from Padang to Palembang.

July 29 Visits to Palembang District
Navigasi, Coast Station, Port
Administration, Harbor Master and
KPLP.
Movement from Palembang to Jakarta.

July 30 - August 2 Study of collected data.

August 3 Movement from Jakarta to Tg.
Pandan. Visits to Harbor Master
(concurrently District Navigasi
manager and Port Administration
Chief) and Coast Station.

August 4 Survey of direction finding station sites (Pt. Tajam, Pt. Manggar and Tanjung Modon).
Visit to Manggar Harbor Master.

August 5 Visit to T. Pandan Port Administration

(7) Post Field Survey Work (by all members of Teams, a and b)

<u>Date</u>	<u>Remarks</u>
August 6	Study of collected data
August 7	Submission of Letter requesting further information. Report to Mr. Manuputty on completion of Field Survey.
August 8	Collection of data at Sea Comm. Headquarters
August 9 - 10	Preparation of Progress Report
August 11	Collection of data at Sea Comm. Headquarters . Arrivals of three members, Mr. Y. Kobayashi, N. Uehara and N. Ohtake from Japan.
August 12	Meeting by all the survey team members. Preparation of Progress Report
August 13	Visit to Cibinong Domestic Satellite (PALAPA) Master Control Station. Collection of data and preparation of Progress Report

August 14	Collection of data
August 15	Meeting by survey team and Sea Communications.
August 16 - 17	Study of collected data.
August 18	Joint study meeting of Survey Team and Sea Communications.
August 19	Report to Japanese Embassy and JICA Office.
August 20	Departure from Jakarta and arrival at Tokyo.
August 21 - November	Drafting of Survey Report.

Performance Calculation of MF and HF Systems

1. Estimation of receiving field strength

Receiving field strengths at 4,6,8,10,12,18,22 and 27 MHz were calculated for each P-P communication system and also for S-S communication from five Class-A stations covering 100km, 300km and 500km² ranges.

P-P Jakarta - Belawan, - Dumai, Balikpapan,
- Surabaya, - Ujung Pandang, - Bitung, - Ambon and
- Jayapura

S-S Jakarta - Jakarta North 100km, 300km and 500km
Belawan - Belawan North " " "
Surabaya - Surabaya North " " "
Ambon - Ambon South " " "
Jayapura - Jayapura North " " "

In computing the receiving field strength, the following assumptions were made:

Assumptions

Antenna input : 1 kw
Transmit antenna gain : 2 dB

Results of calculation

Following parameters are used.

Mode: 1B ... 1-time reflection by E layer
2F ... 2-time reflection by F layer
Angle ... Elevation of the radiated HF signal
Loss ... Transmission loss
DBU ... Receiving field strength
Month ... June, and December
SSN ... Sun Spot Number, 25 and 105
GMT ... 4, 8, 12, 16, 20 and 24

Receiving field strengths at frequencies below 3MHz for S-S communication are estimated for ground wave over sea water.

2. Estimation of atmospheric noise and required field strength

2.1 Atmospheric noise F_{am} (dB above kTb)

Freq. bands: 0.5, 2, 4, 6, 8, 10, 12, 18 and 22 MHz

F_{am} : Effective antenna noise factor which results from a loss free antenna

E_n : Root-mean-square noise field strength for a 1-Hz bandwidth (dB above 1 $\mu V/m$)

The atmospheric noise level is estimated according to CCIR Report 322, 1963.

2.2 Required RF signal field strength

To obtain the required RF field strength minimum S/N for each type of emission, i.e., A1 TG 8 bauds, A2 TG 8 bauds, F1 TG 50 bauds and A3J SSB given in CCIR Rec. 339-4 was assumed as follows:

A1 TG 8 bauds: 31 dB for aural reception grade

A2 TG 8 bauds: 35 dB " " "

F1 TG 50 bauds: 51 dB for 0.001 of probability of character error

A3J SSB: 56 dB for Marginally commercial grade

For frequencies above 3 MHz, 14-dB fading margin and for frequencies below 3 MHz, 10-dB fading margin were assumed.

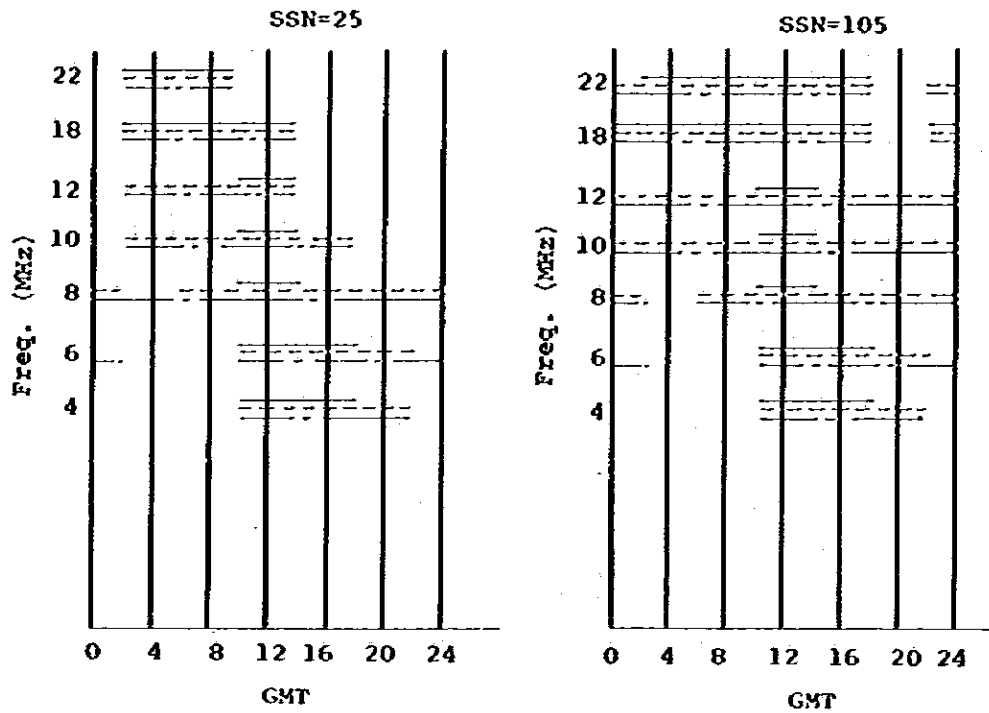
3. Time during which a frequency is usable for communication

Comparing the estimated RF field strength with the required RF signal field strength the time during which a frequency is usable for communication is found in the attached papers.

Usable Frequencies for Point-to-Point Communication

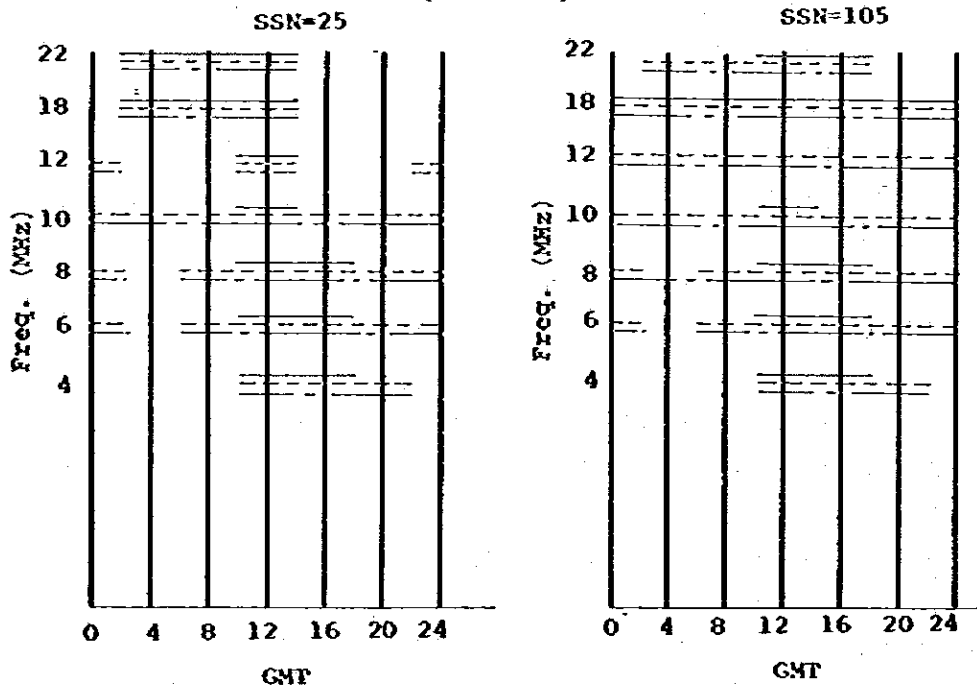
JAKARTA-BELAWAN

(June)



JAKARTA-BELAWAN

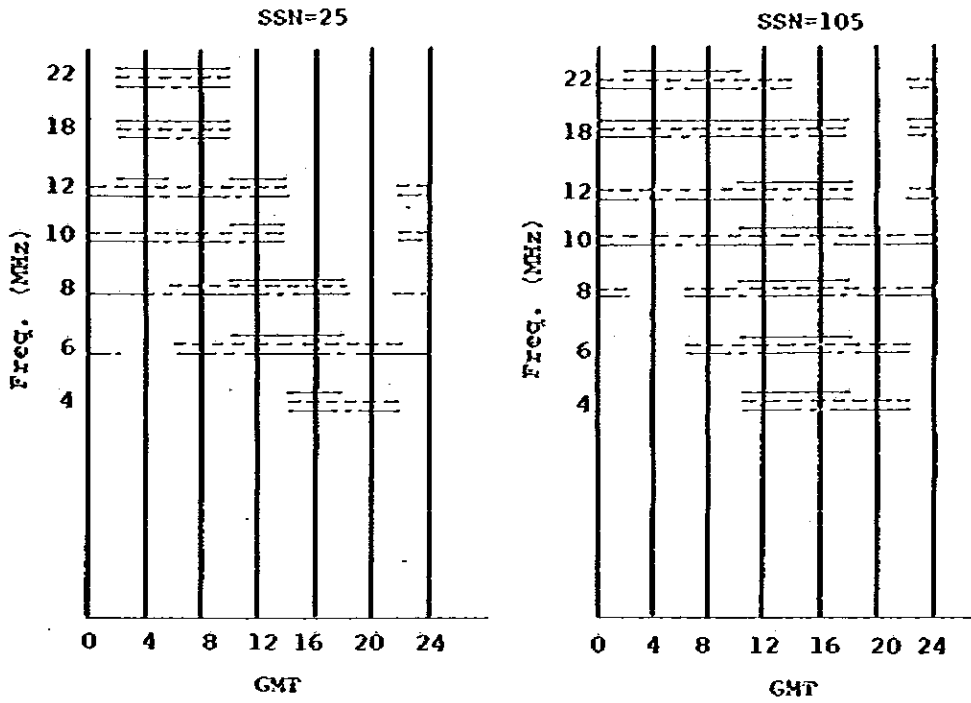
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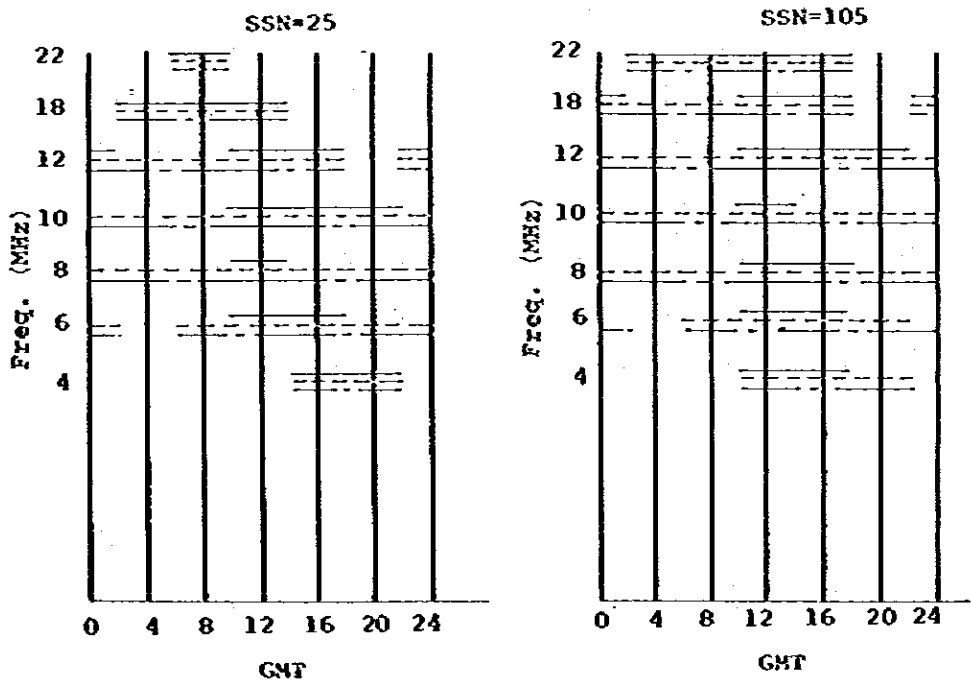
- A3J SSB
- - - A2 TG 8b
- · - A1 TG 8b

JAKARTA-BALIKPAPAN

(June)



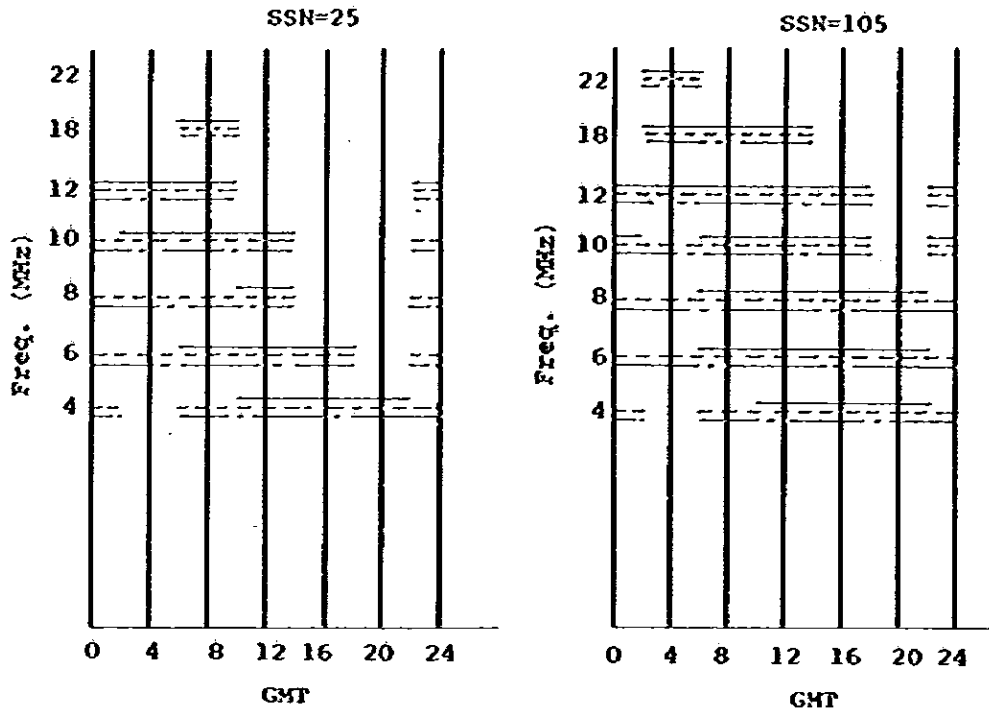
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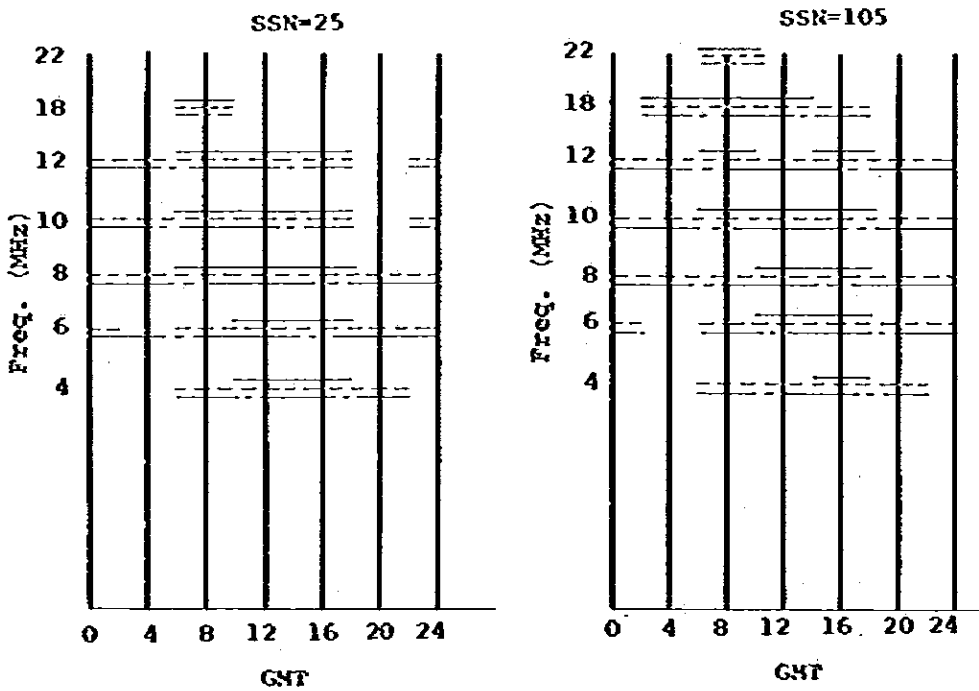
- A3J SSB
- A2 TG 8b
- - - - A1 TG 8b

JAKARTA-SURABAYA

(June)



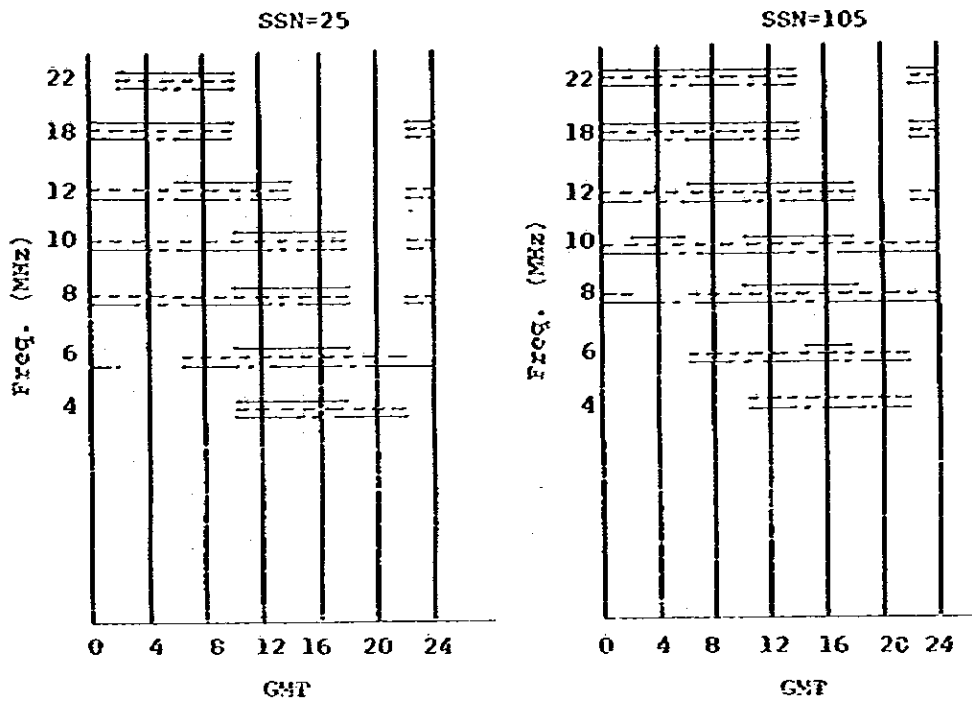
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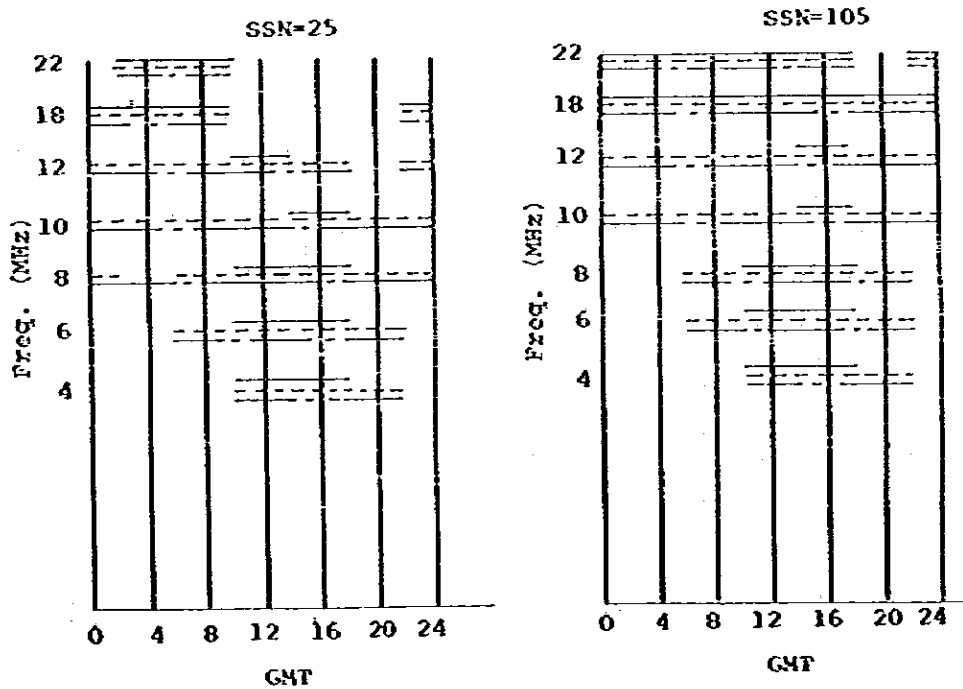
- A3J SSB
- A2 TG 8b
- - - - - A1 TG 8b

JAKARTA-U. PANDANG

(June)



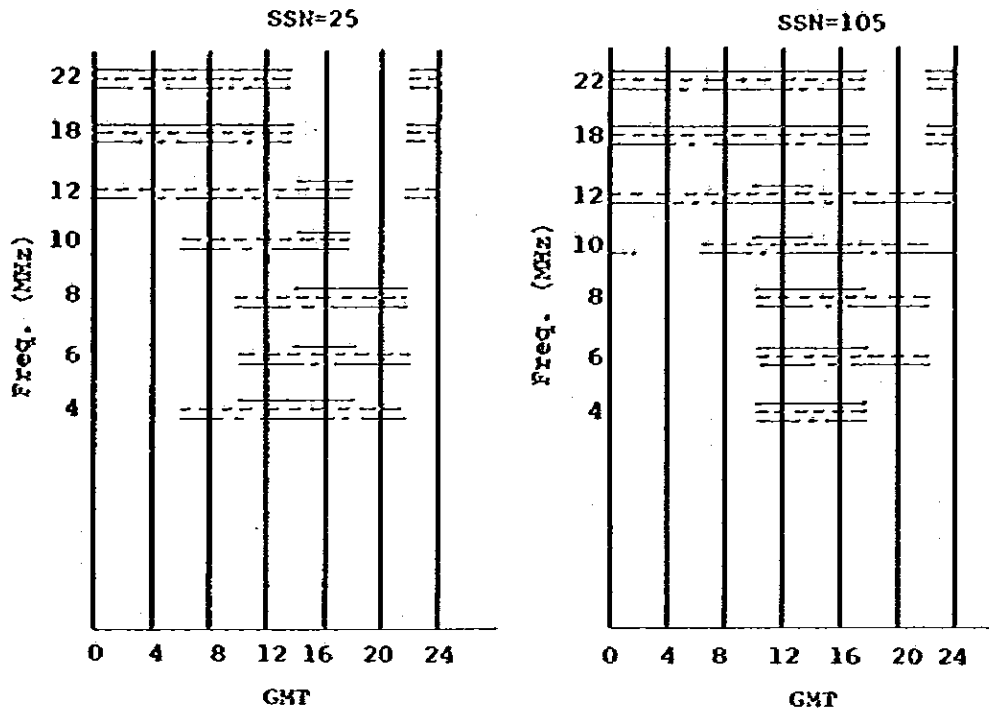
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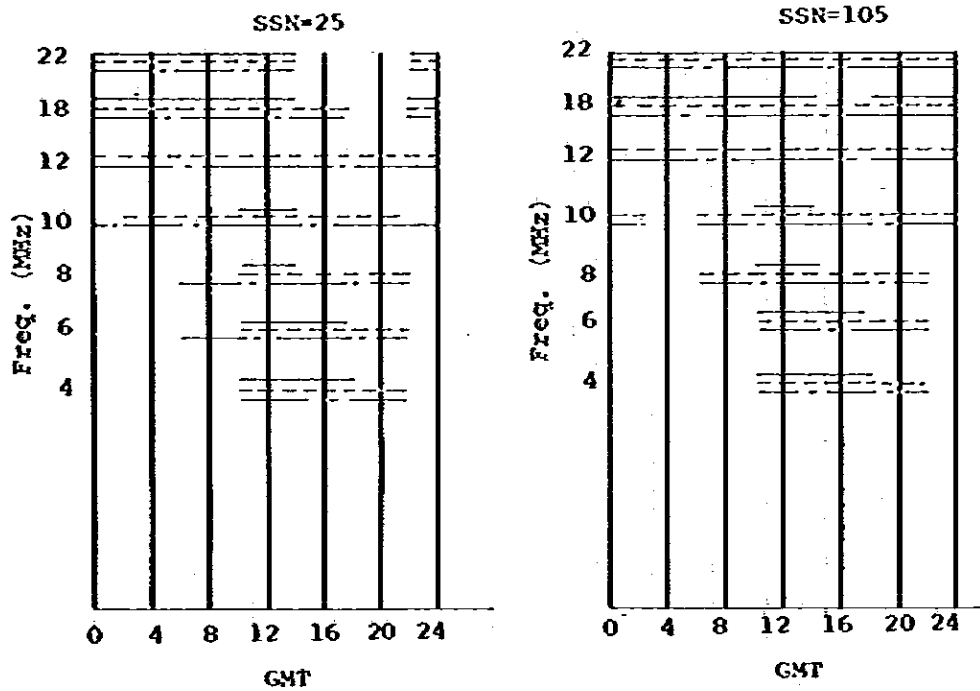
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- - - - A1 TG 8b

JAKARTA-BITUNG

(June)



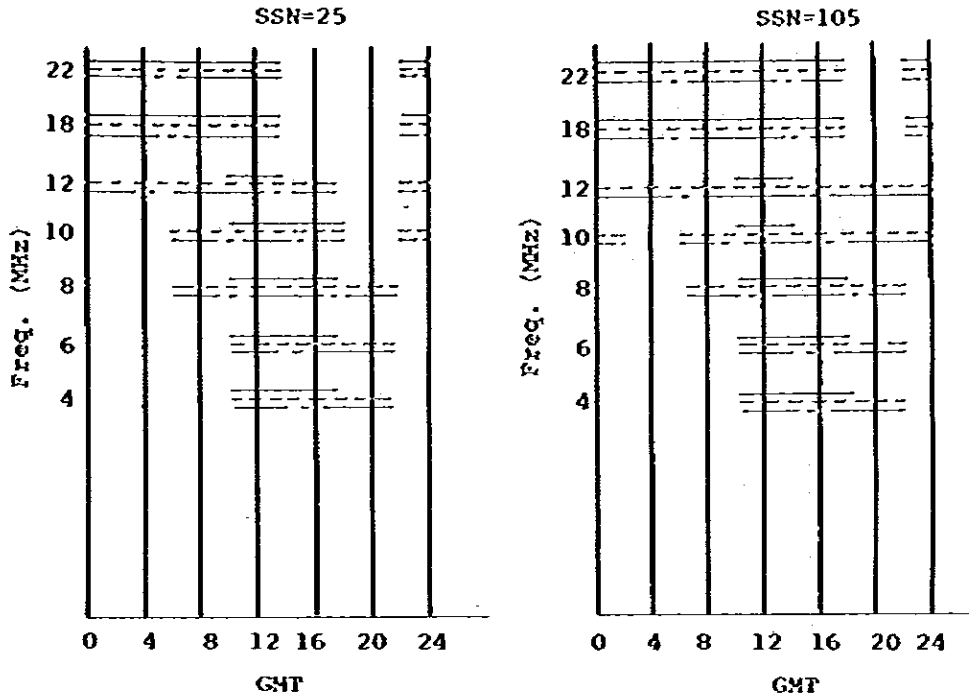
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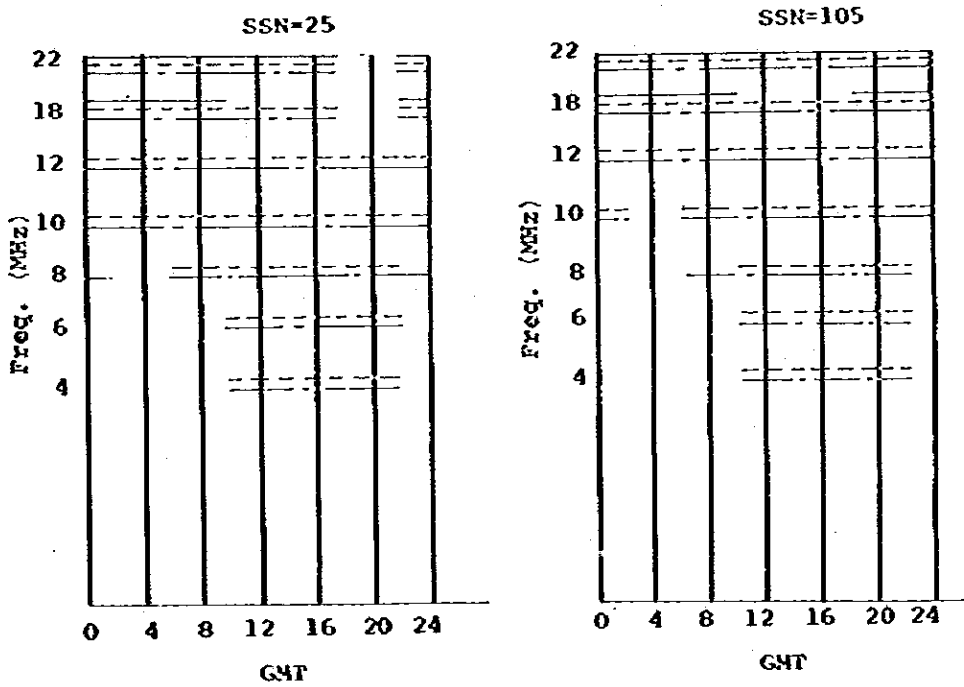
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- A2 TG 8b
- . - . A1 TG 8b

JAKARTA-AMBON

(June)



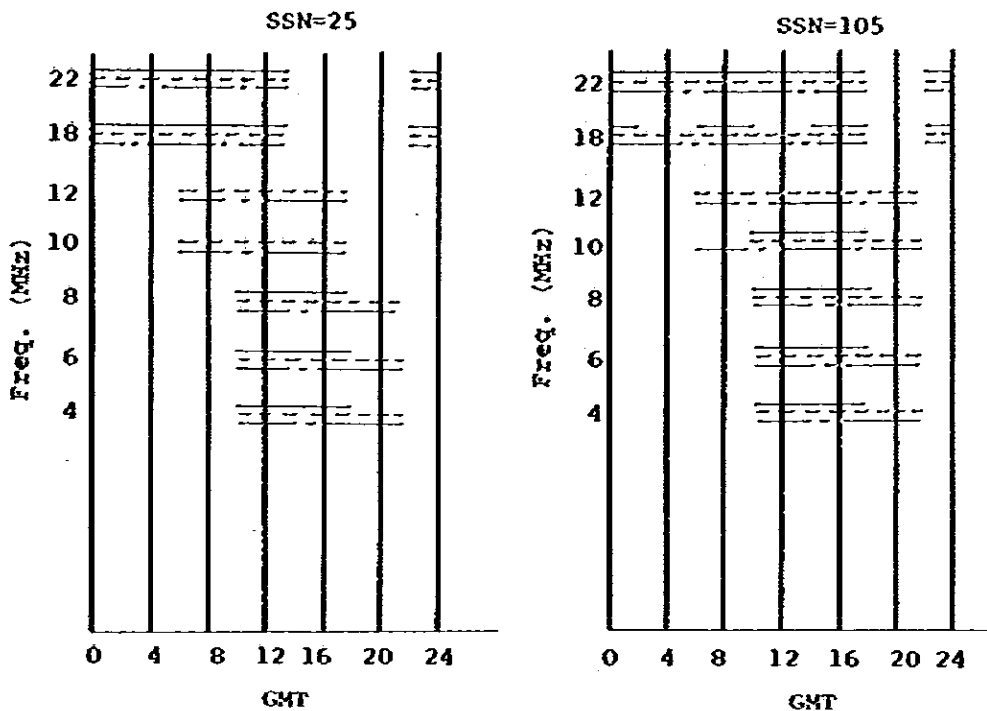
(December)



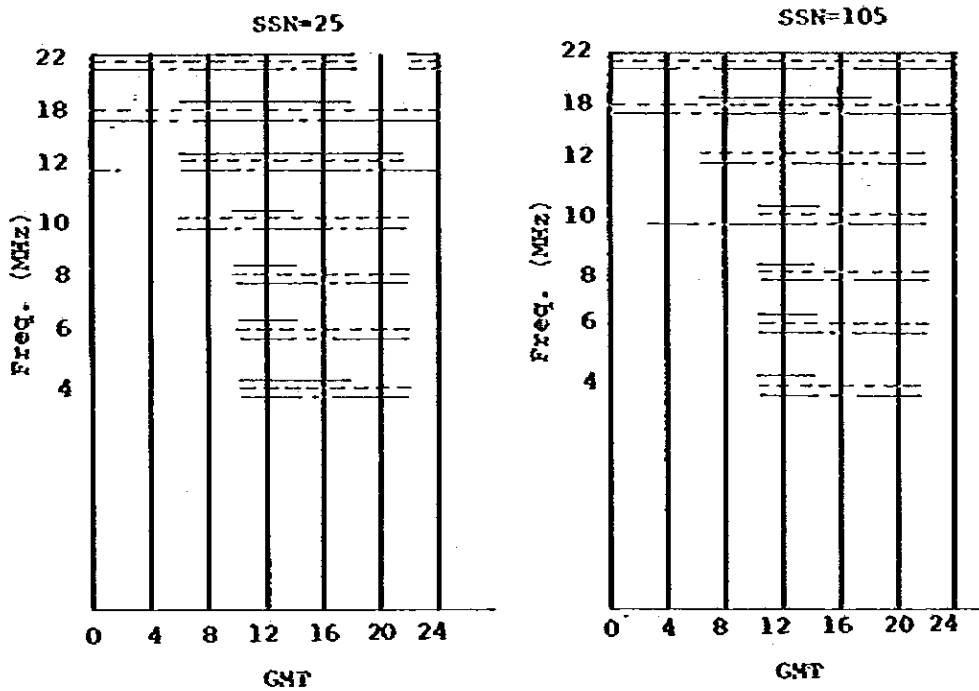
- A3J SSB
- A2 TG 8b
- - - - A1 TG 8b

JAKARTA-JAYAPURA

(June)



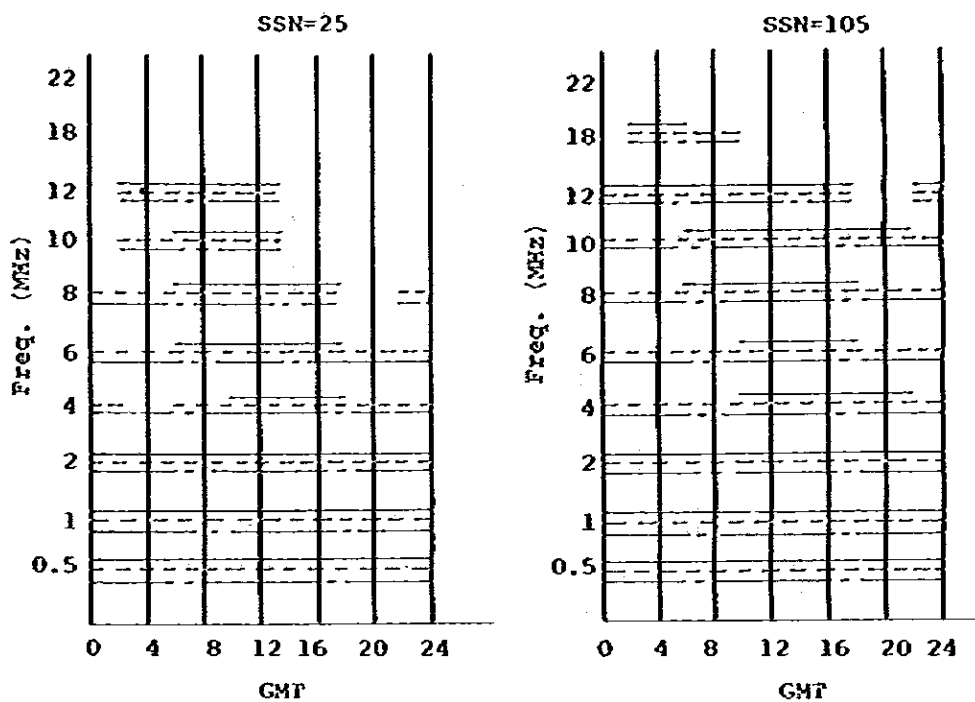
(December)



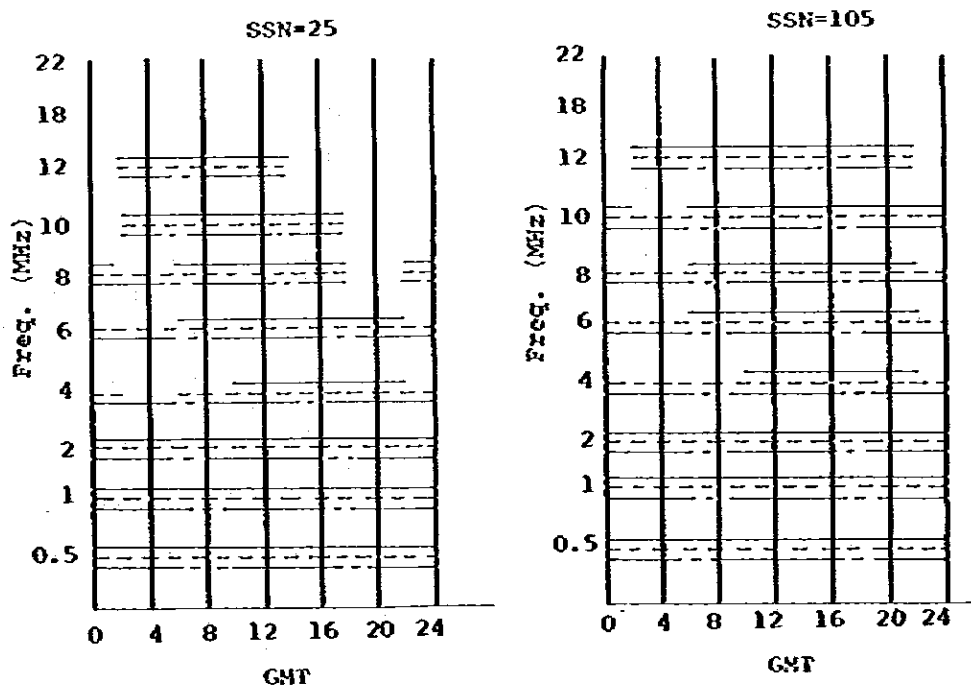
- A3J SSB
- A2 TG 8b
- - - - A1 TG 8b

BELAWAN-BELAWAN N 100

(June)



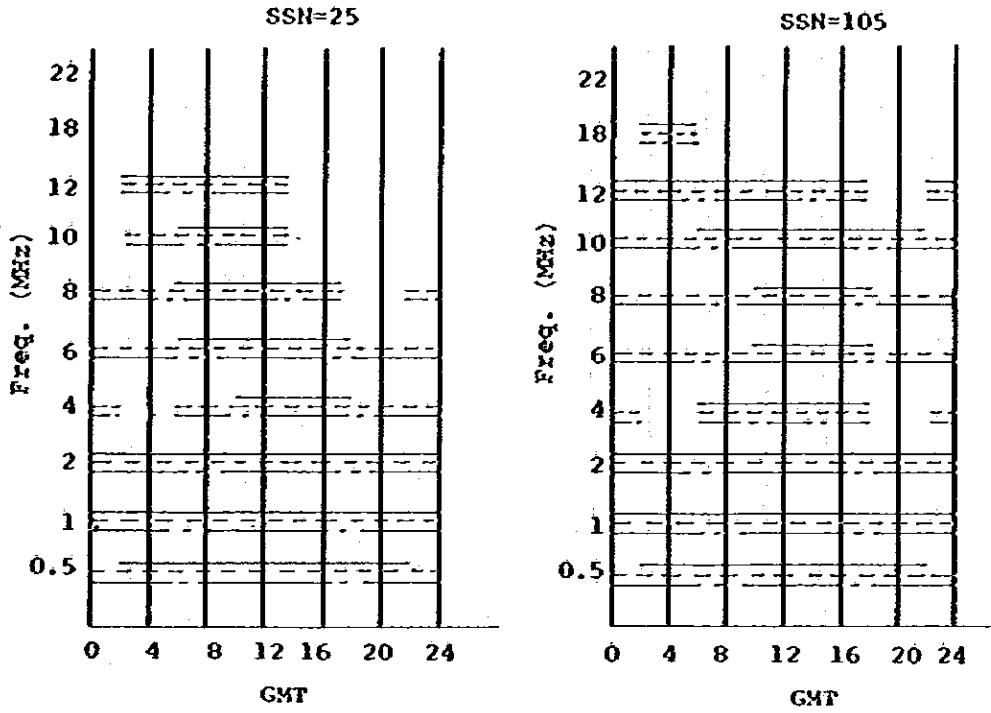
(December)



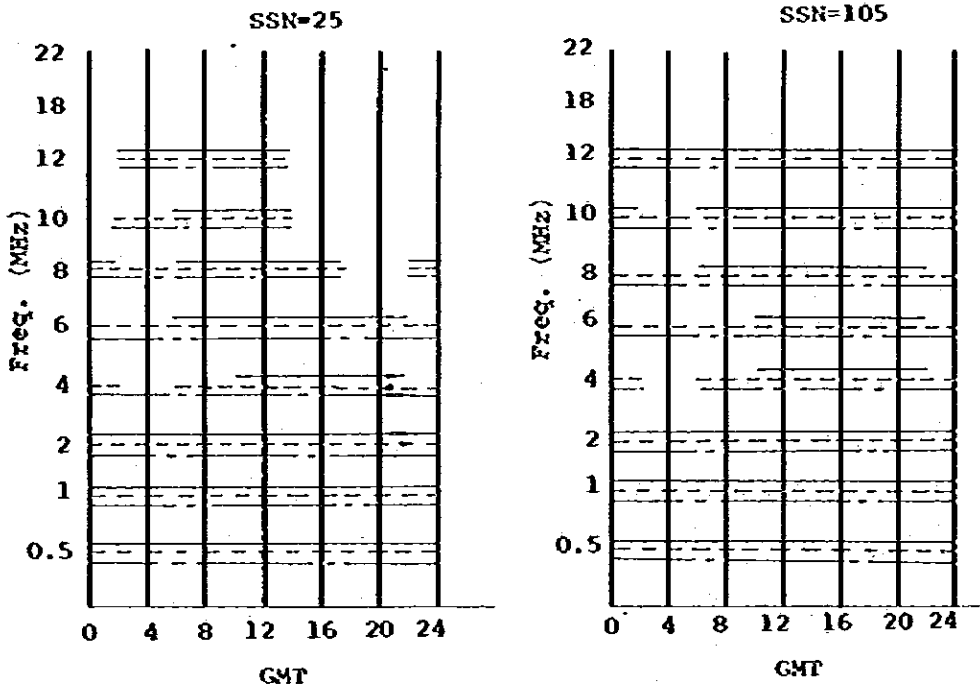
- A3J SSB
- A2 TG 8b
- - - - A1 TG 8b

BELAWAN-BELAWAN N 300

(June)



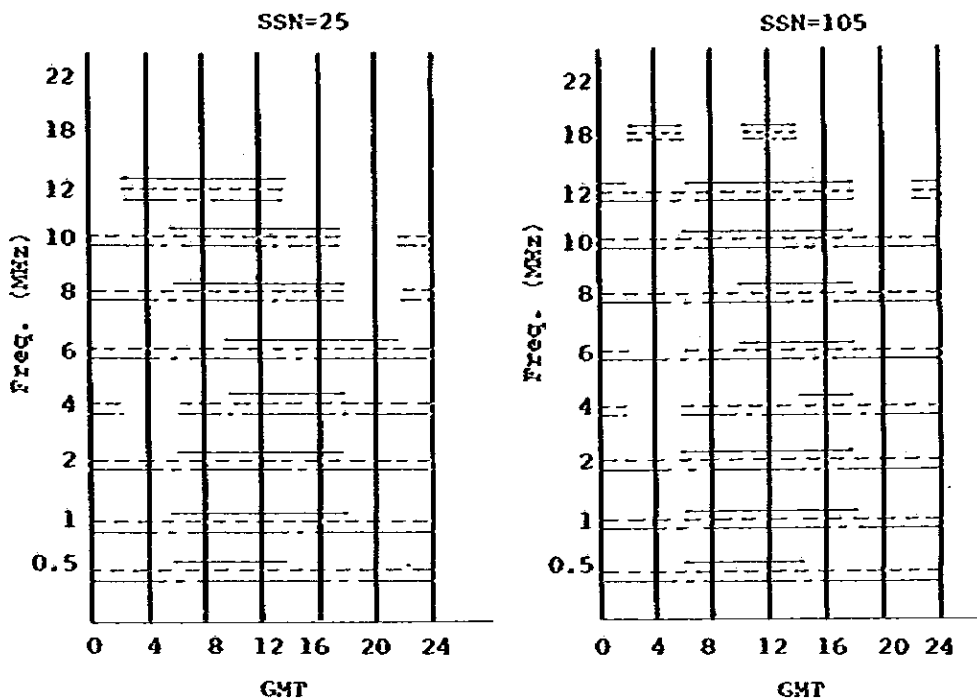
(December)



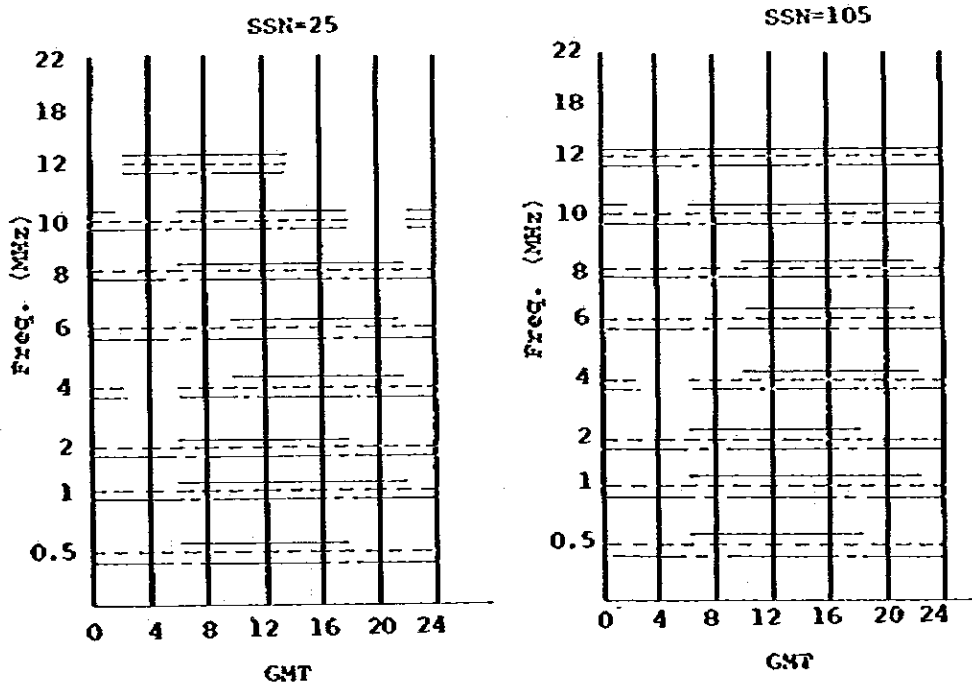
- A3J SSB
- A2 TG 8b
- . - . A1 TG 8b

BELAWAN-BELAWAN N 500

(June)



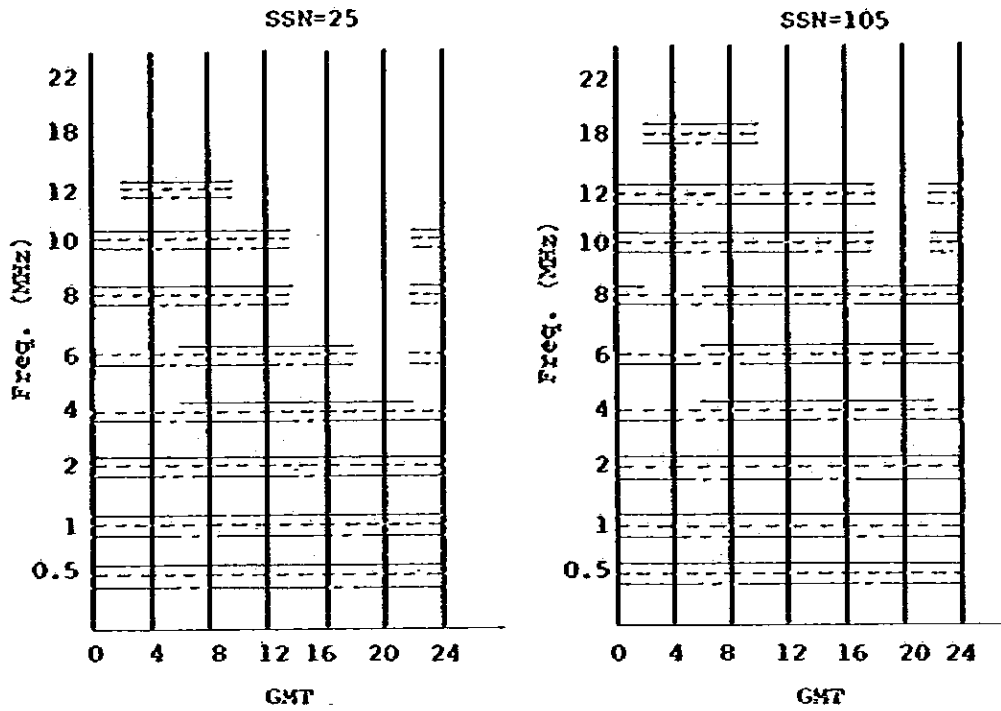
(December)



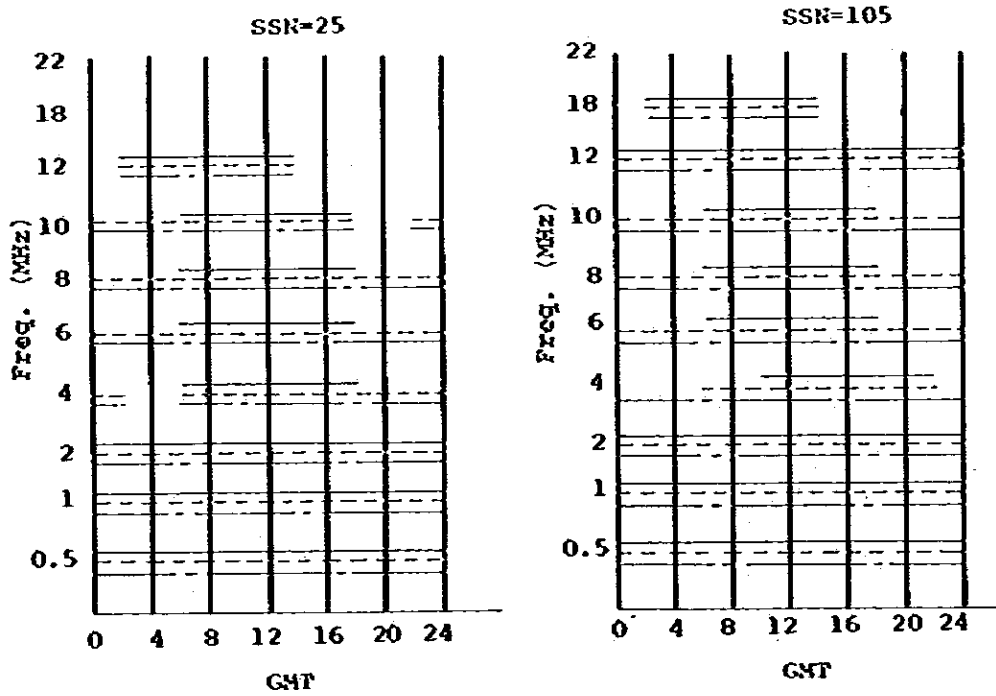
- A3J SSB
- - - A2 TG 8b
- · - A1 TG 8b

JAKARTA-JAKARTA N 100

(June)



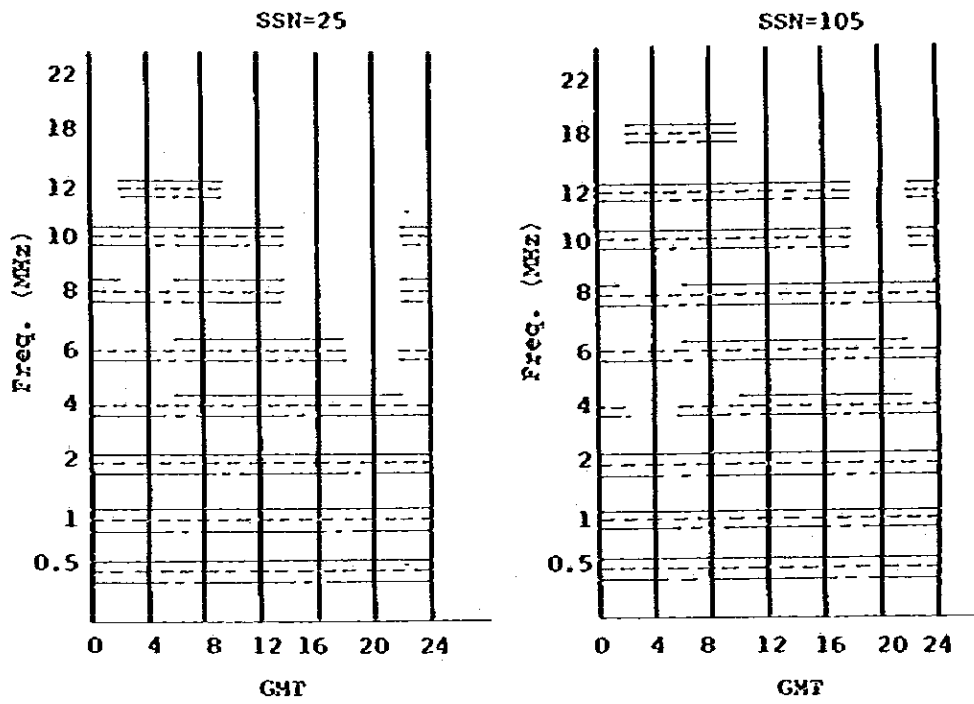
(December)



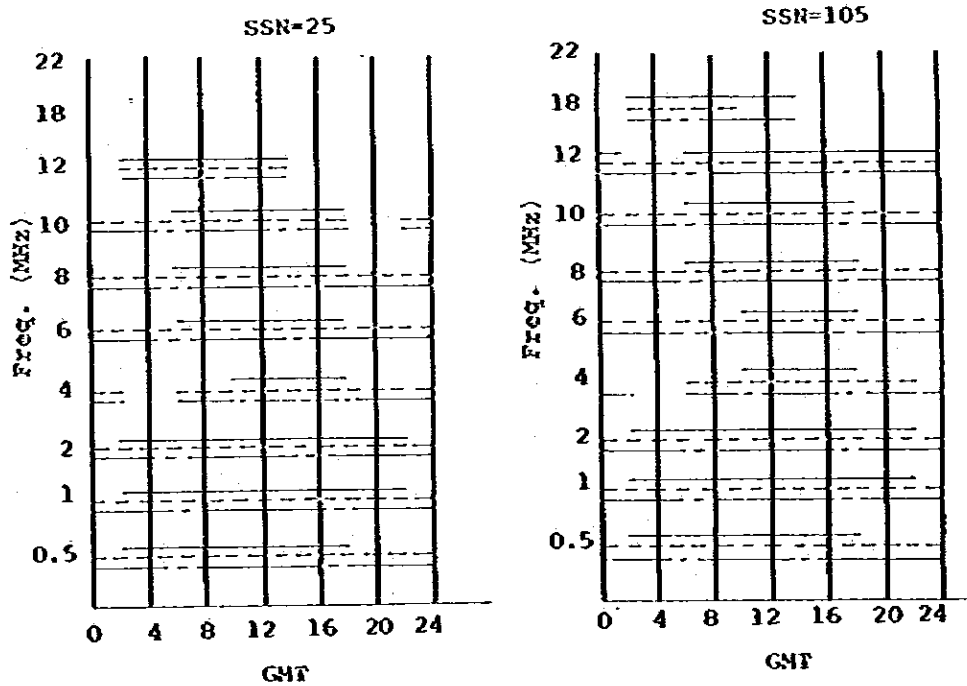
- A3J SSB
- A2 TG 8b
- · - · - A1 TG 8b

JAKARTA-JAKARTA N 300

(June)



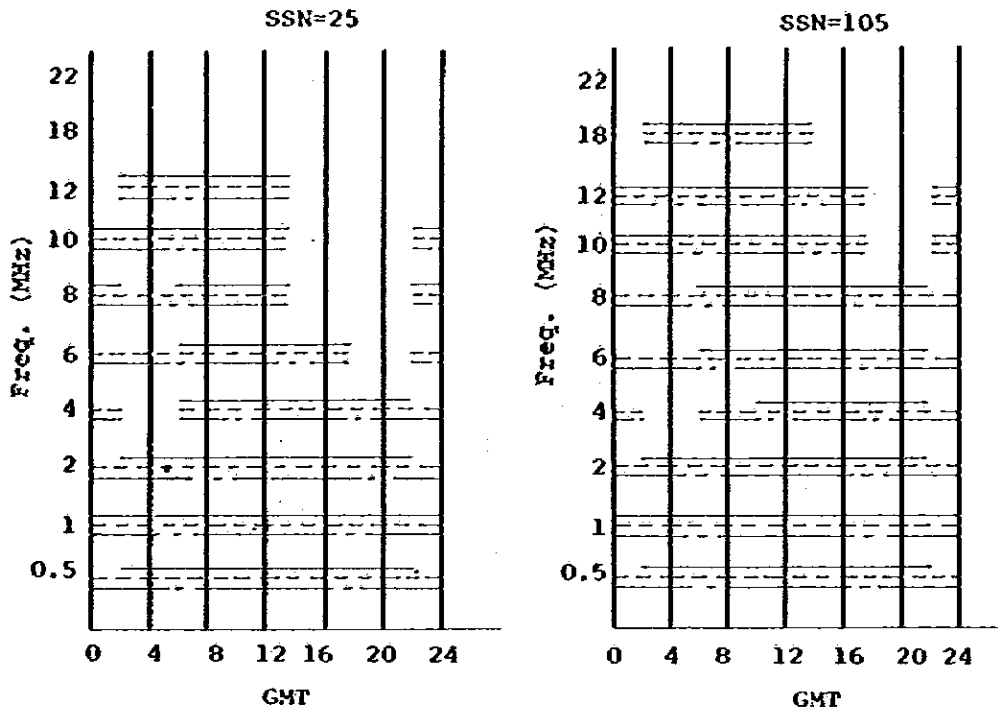
(December)



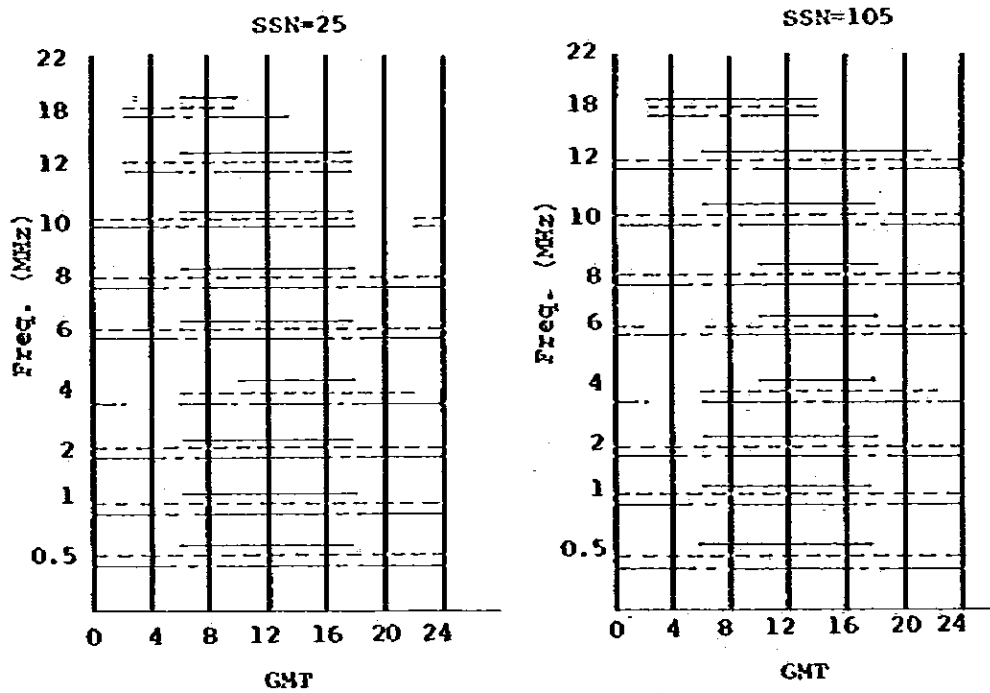
- A3J SSB
- A2 TG 8b
- .-.-.- A1 TG 8b

JAKARTA-JAKARTA N 500

(June)



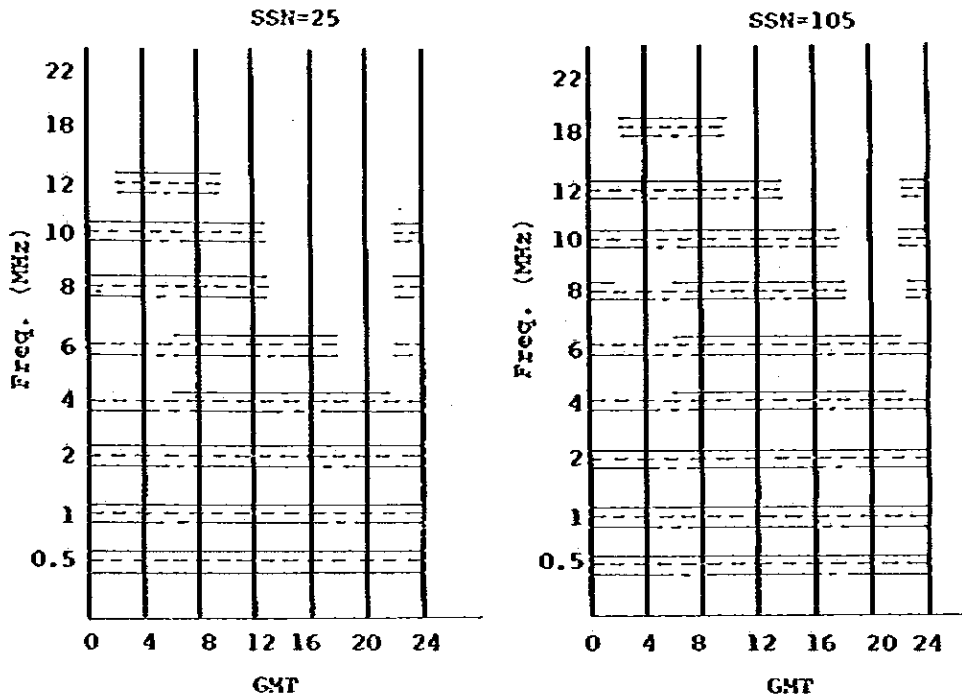
(December)



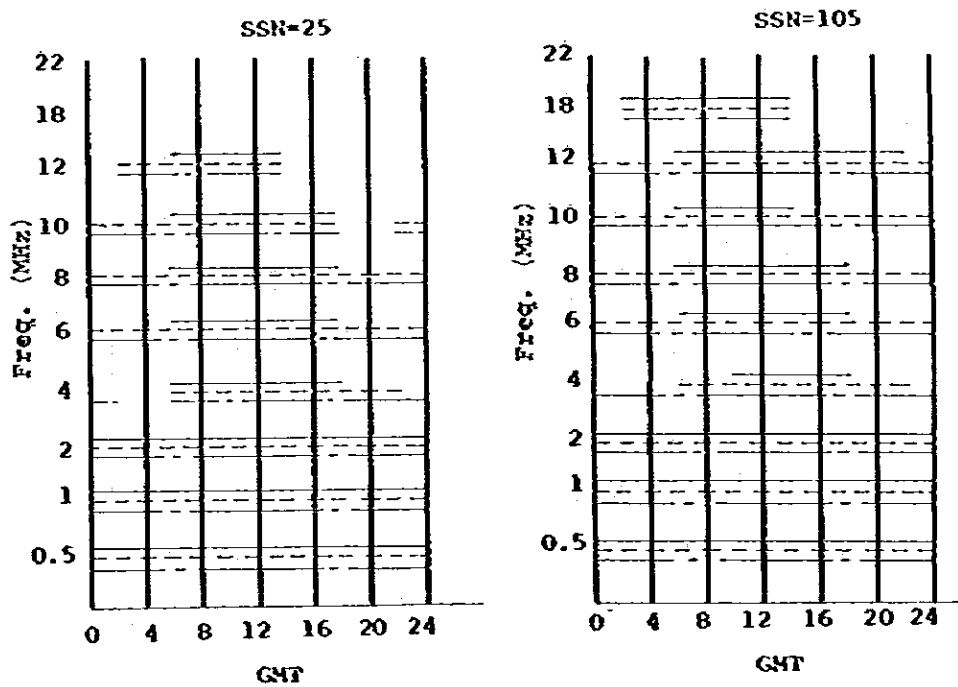
- A3J SSB
- A2 TG 8b
- .-.-.- A1 TG 8b

SURABAYA-SURABAYA N 100

(June)



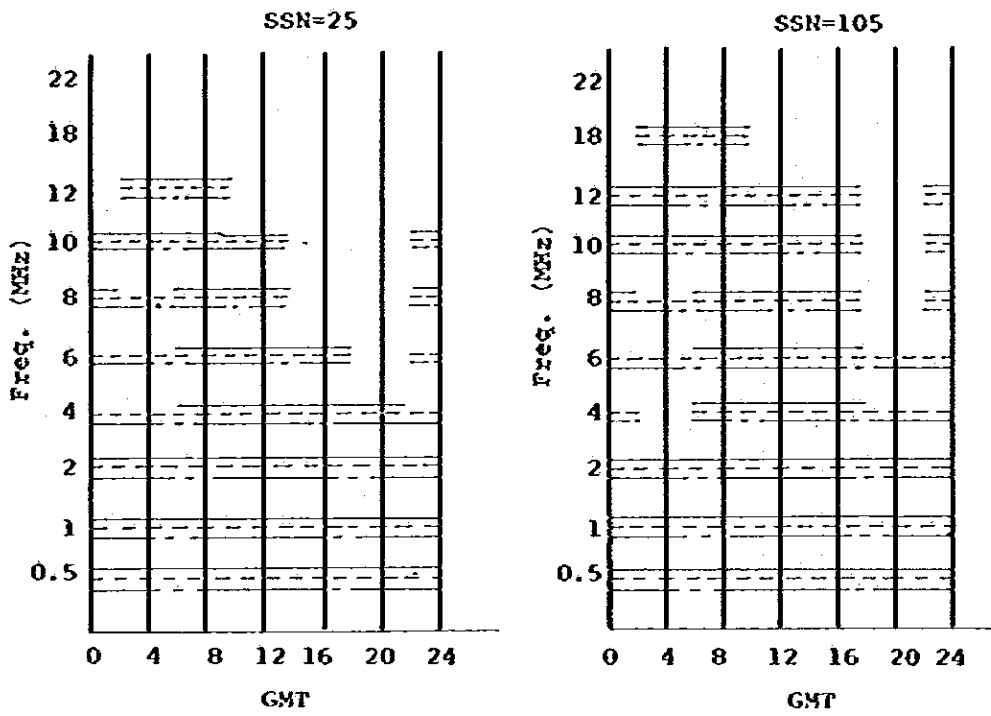
(December)



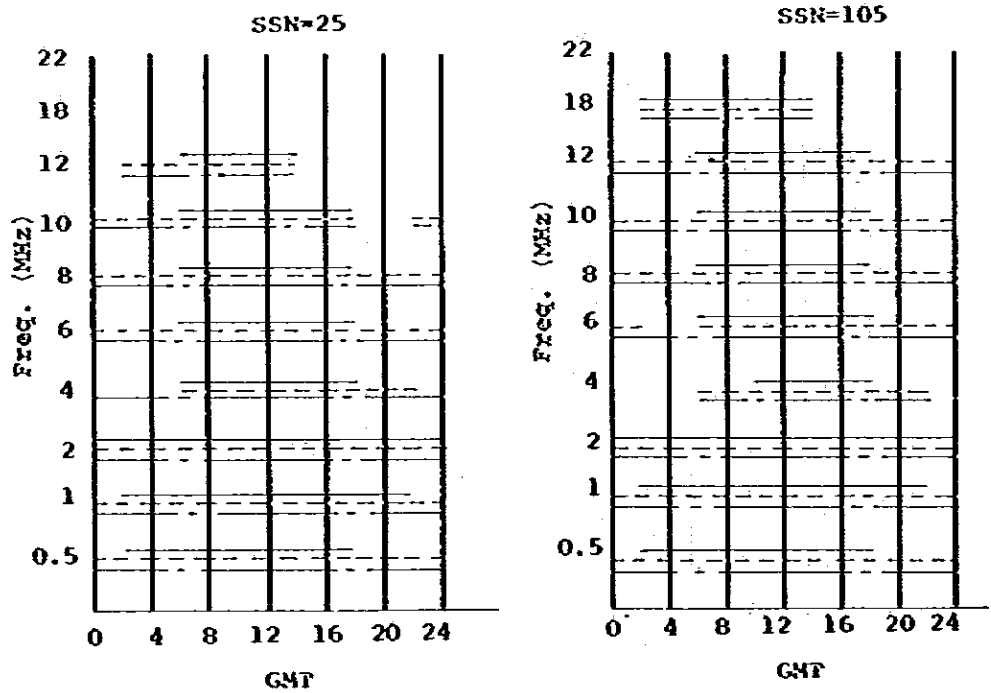
- A3J SSB
- A2 TG 8b
- A1 TG 8b

SURABAYA-SURABAYA N 300

(June)



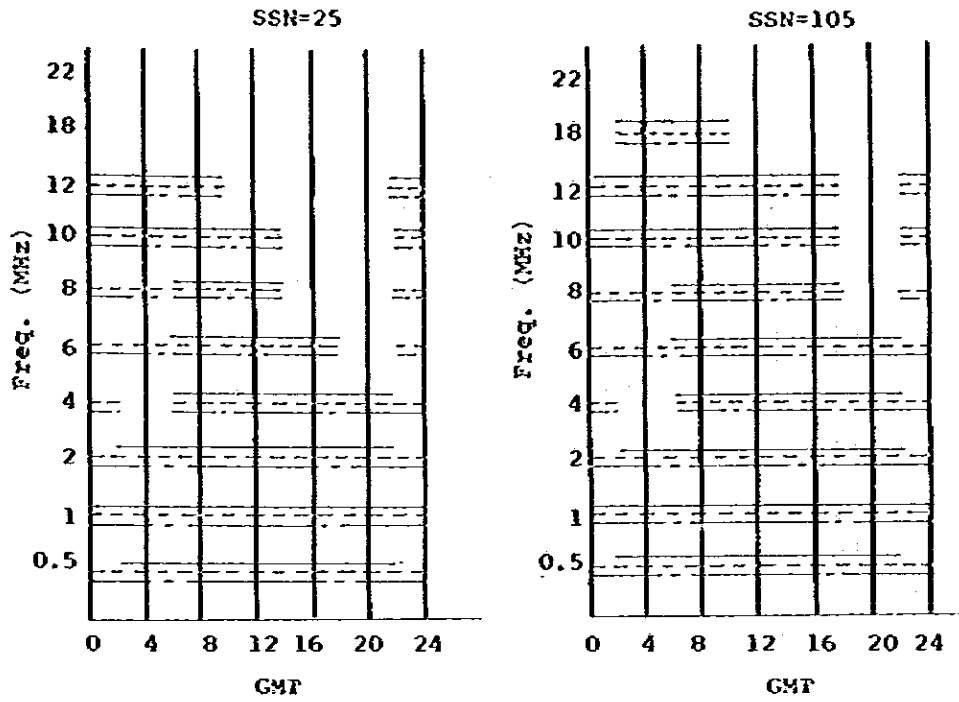
(December)



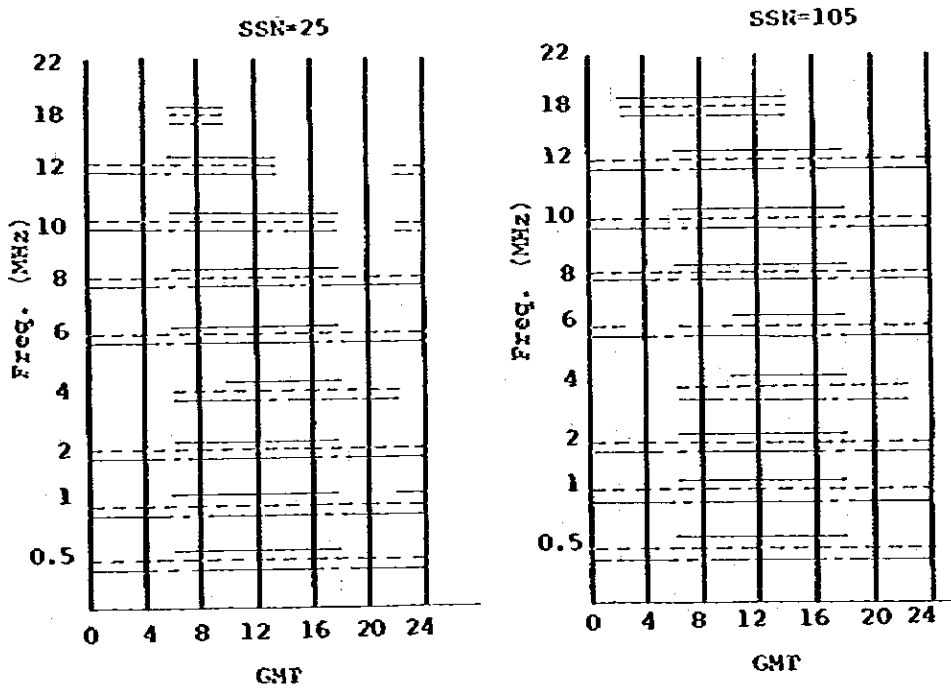
- A3J SSB
- A2 TG 8b
- .-.-.- A1 TG 8b

SURABAYA-SURABAYA N 500

(June)



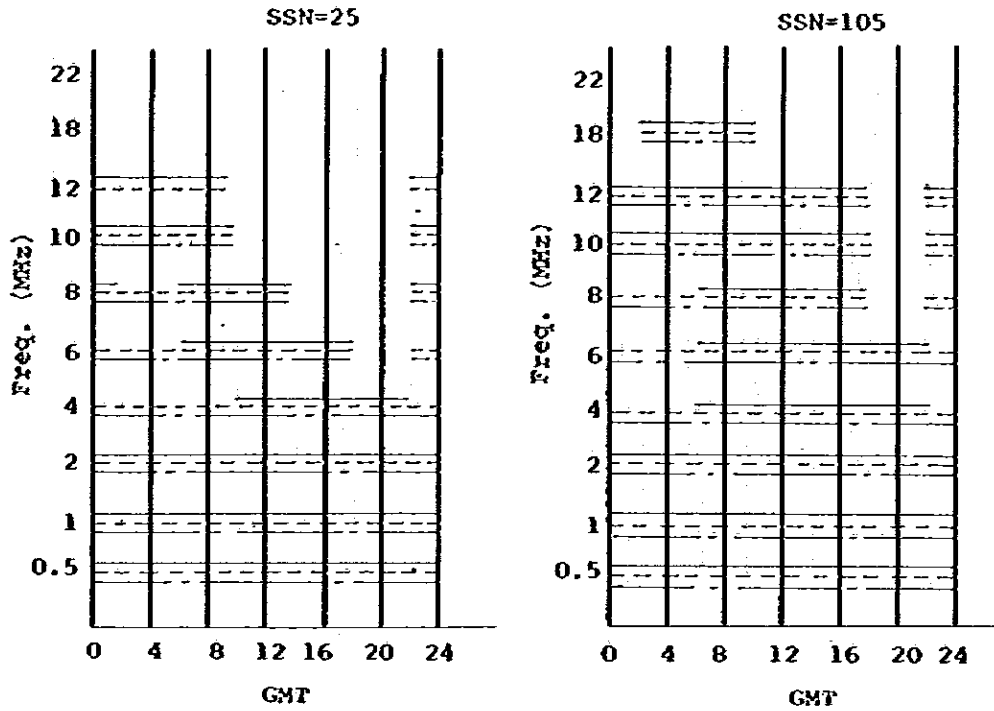
(December)



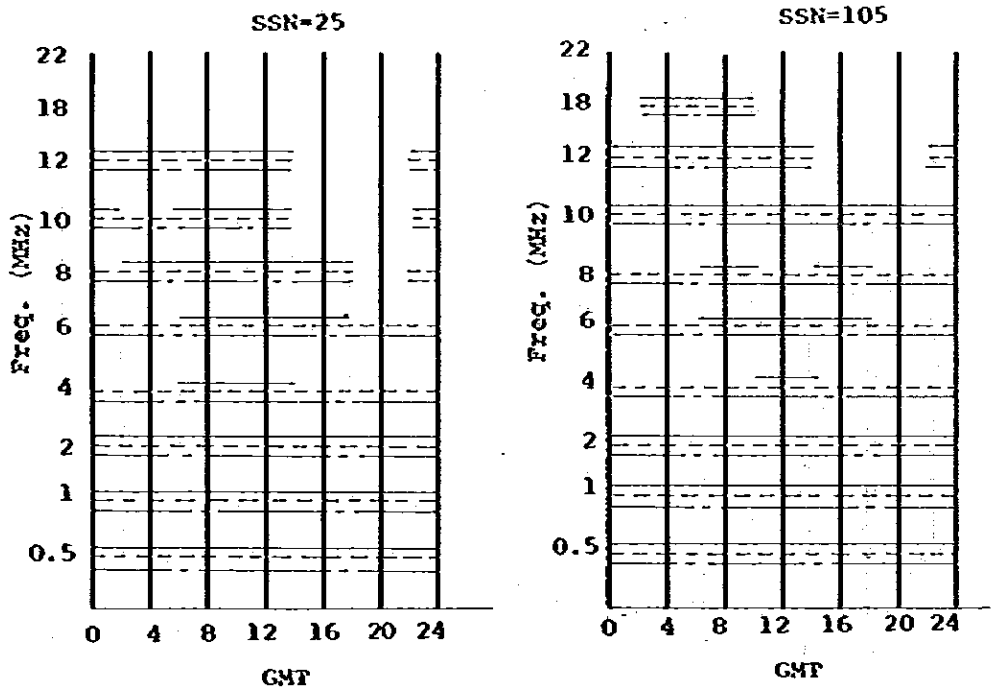
—— A3J SSB
----- A2 TG 8b
- · - · - A1 TG 8b

AMBON-AMBON S 100

(June)



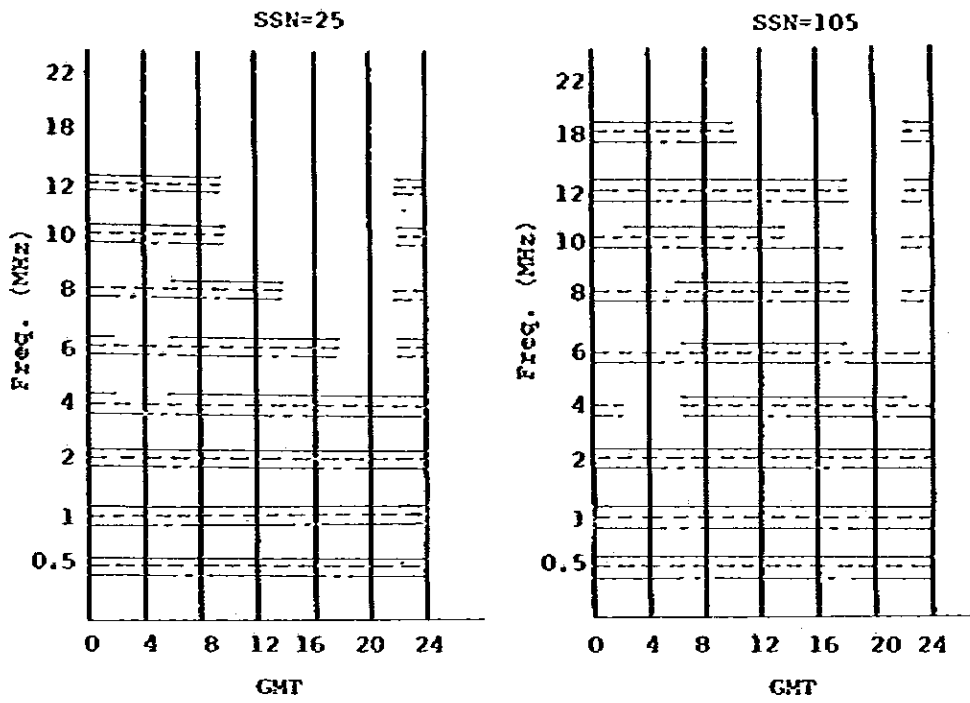
(December)



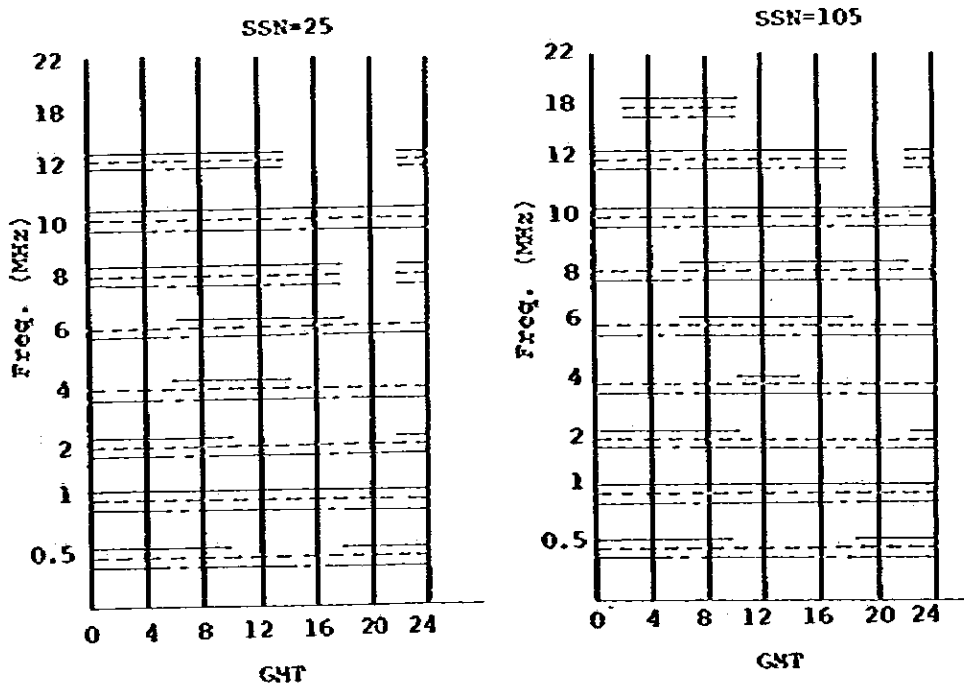
- A3J SSB
- - - A2 TG 8b
- · - A1 TG 8b

AMBON-AMBON S 300

(June)



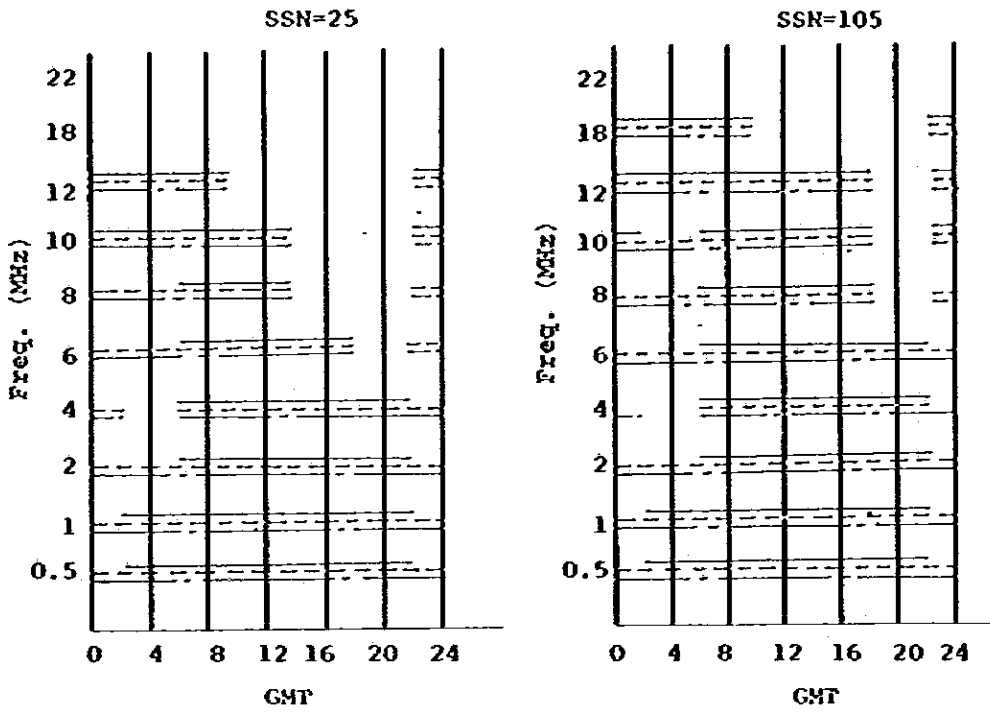
(December)



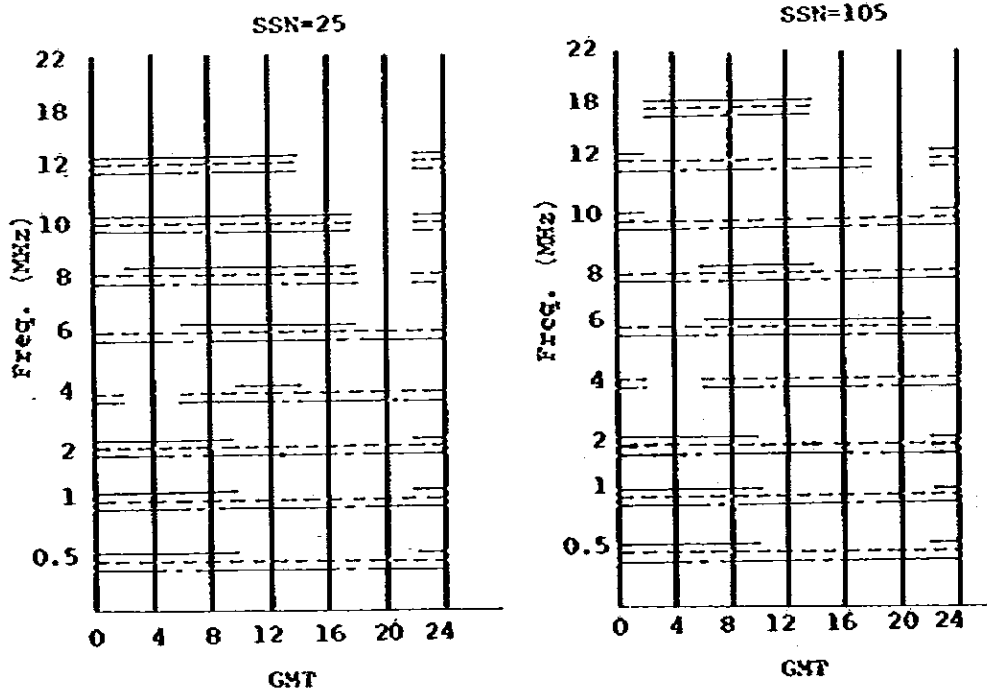
- A3J SSB
- A2 TG 8b
- - - - A1 TG 8b

AMBON-AMBON S 500

(June)



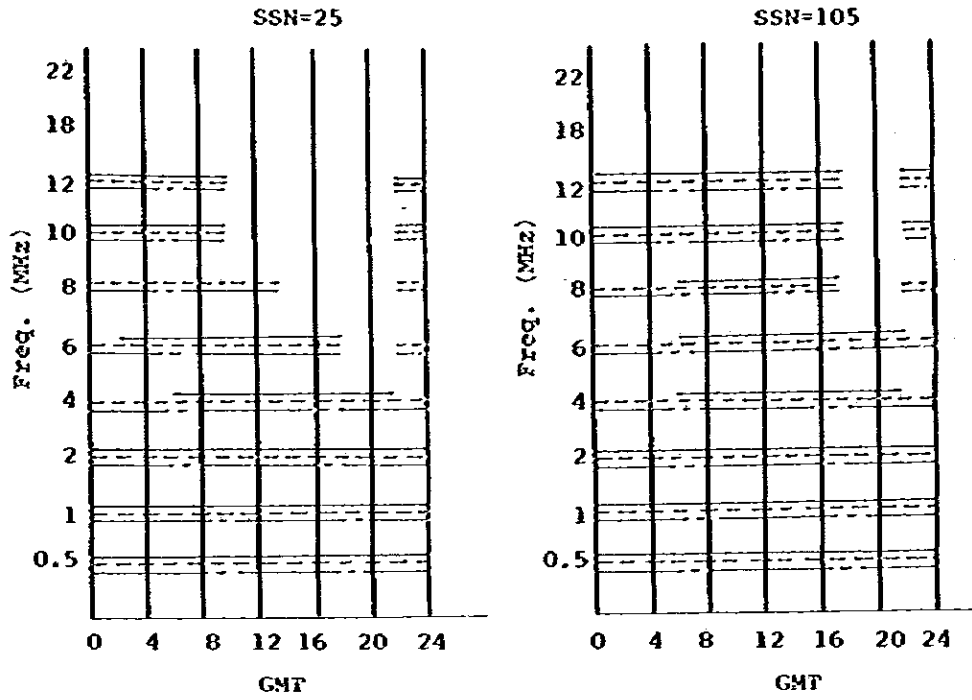
(December)



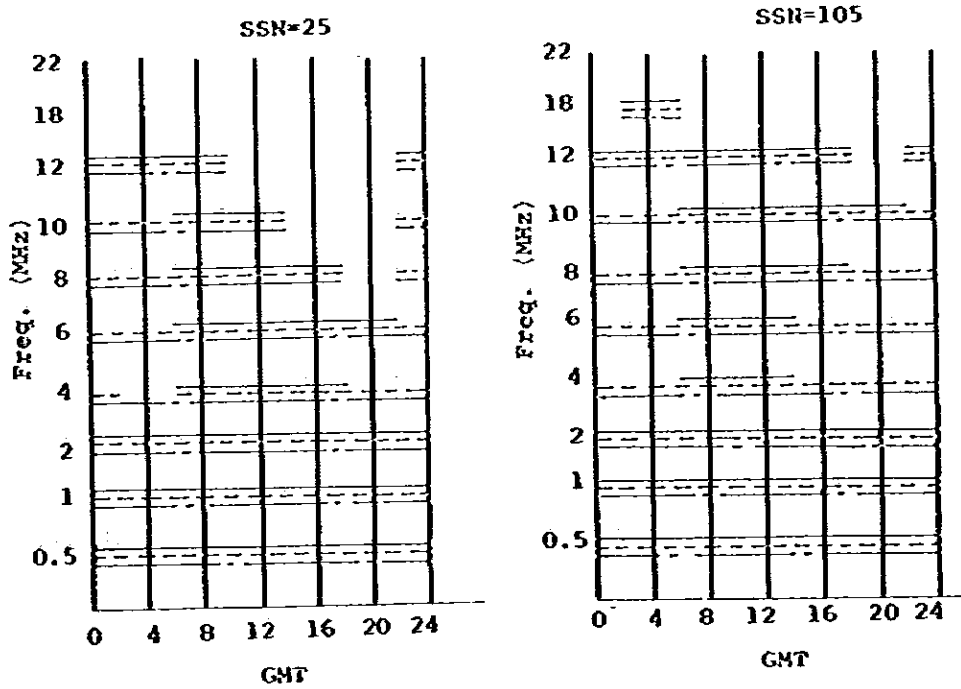
— A3J SSB
 - - - A2 TG 8b
 - · - A1 TG 8b

JAYAPURA-JAYAPURA N 100

(June)



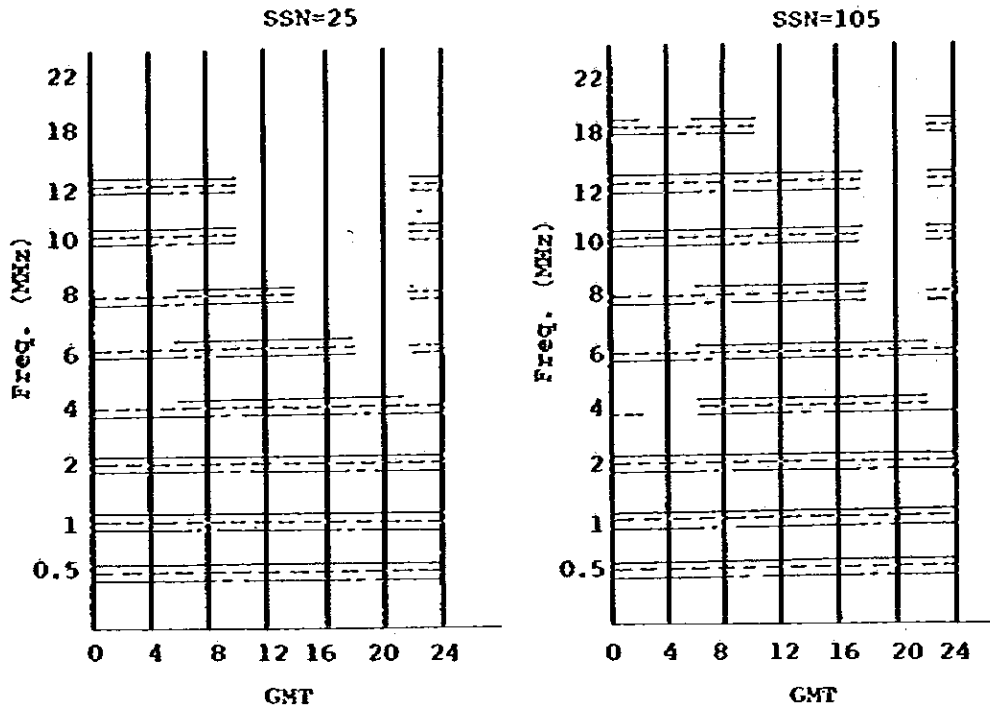
(December)



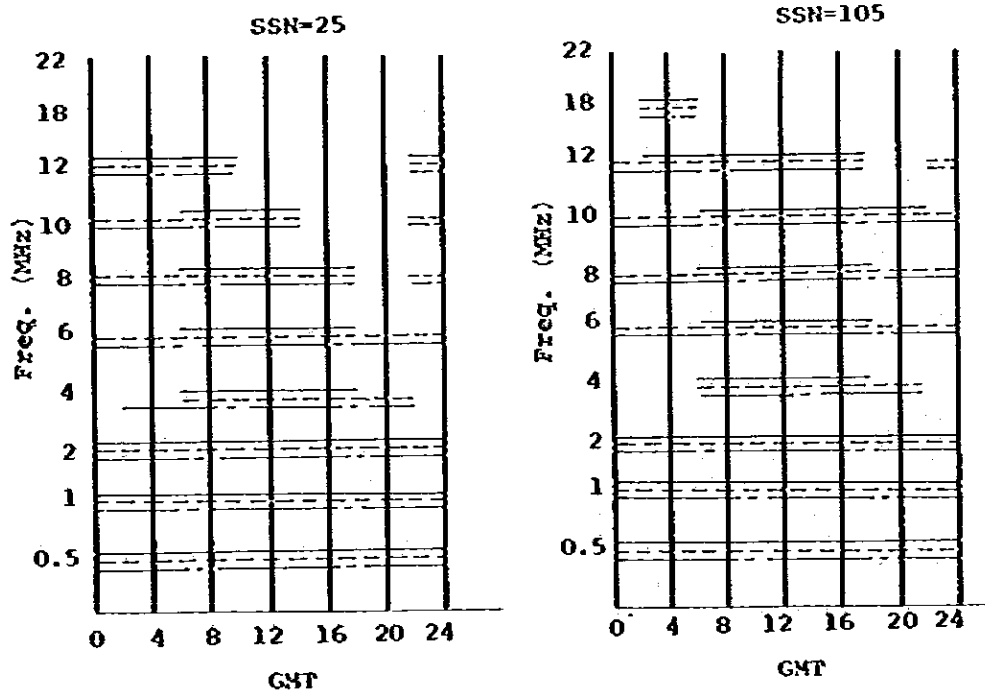
- A3J SSB
- A2 TG 8b
- .-.- A1 TG 8b

JAYAPURA-JAYAPURA N 300

(June)



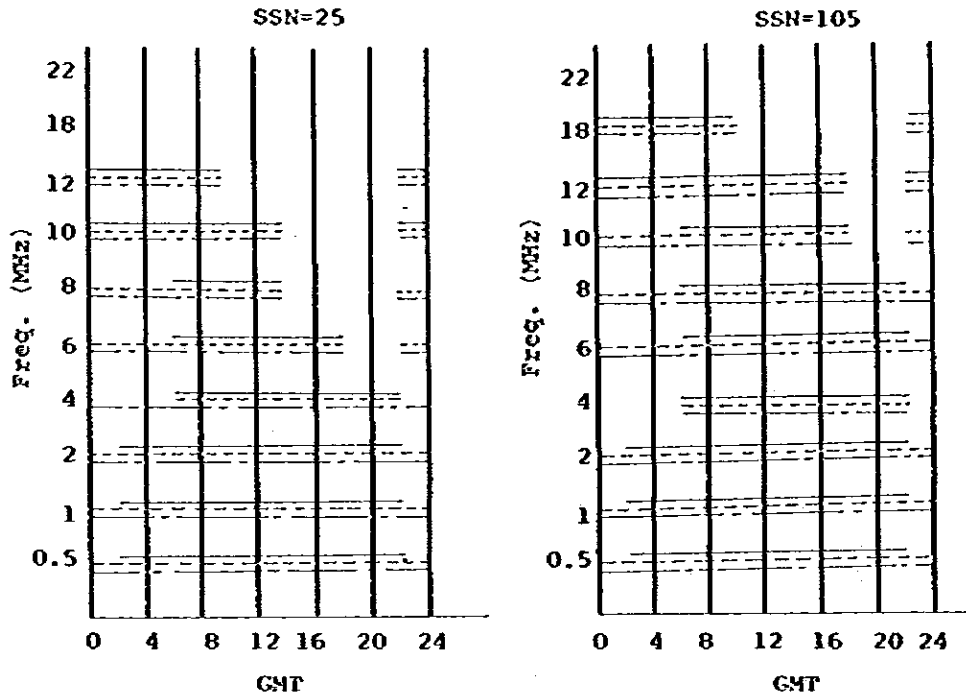
(December)



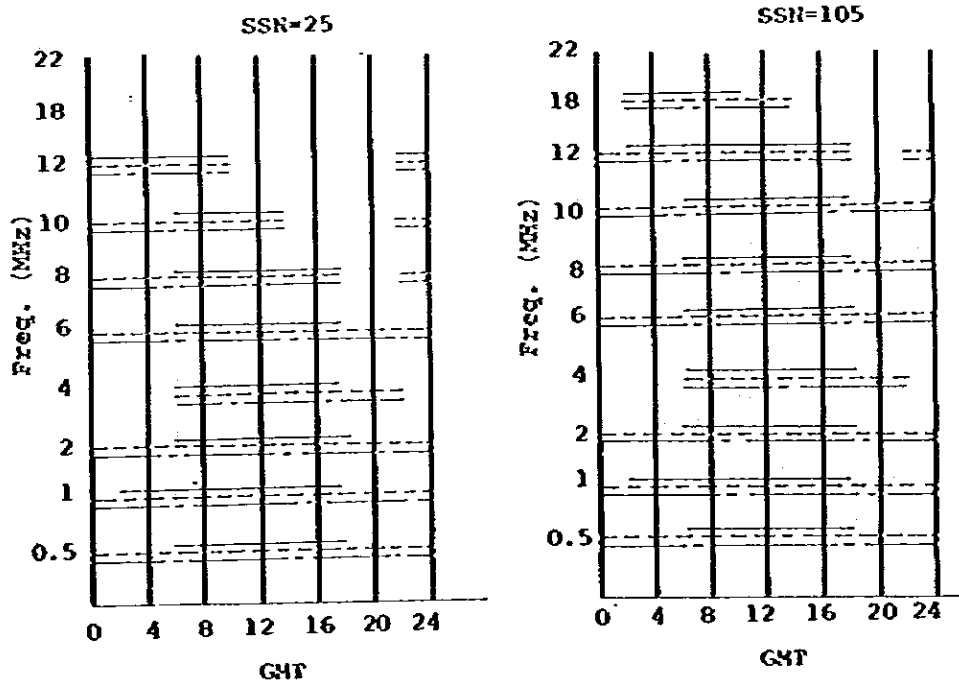
- A3J SSB
- A2 TG 8b
- - - - A1 TG 8b

JAYAPURA-JAYAPURA N 500

(June)



(December)



- A3J SSB
- A2 TG 8b
- · - · - A1 TG 8b

LIST OF EQUIPMENT TO BE PROVIDED
FOR GENERAL COAST STATIONS & MAINTENANCE CENTER
(URGENT DEVELOPMENT PROGRAM IN REPELITA III)

Installation	General Coast Station			Maintenance Center								Total	
	Ambon	Balikpapan	Sorong	Medan	Dumai	Jakarta	Surabaya	Banjarmasin	Ujung Pandang	Menado	Ambon		Jayapura
1 KW MF TG Transmitter		2	2			1							5
1 KW MF/HF TG.TP Transmitter		3	5			1							9
0.1 KW HF TP Transceiver			1			1							2
1 KW Matching Unit		1	1										2
0.1 KW Dummy Load						1							1
1 KW Dummy Load		1	1			2							4
Ant Matrix		1	1										2
MF/HF Receiver		3	7			2							12
Preset Unit		2	5			1							8
Scan Unit		1	2			1							4
Ant. Multicoupler		3	2										5
Ant. Exchanger		3	7										10
Operator's Position		3	5										8
Supervisory Console		1	1										2
Remote Control Unit		4	3			1							8
VODAS		3	3										6
TP Repeater		4	4										8
Morse Tape Transmitter		1	1										2
ARQ													
Teleoperation Unit													
Teleprinter													
UHF 12CH TR with Max VFT & Antenna	1	1	1			1							4
VHF T/R with Ant. & Duplexer		2	2			1							5
500 kHz Auto Alarm Receiver		1	1										2
2182 " " " "		1	1										2
Antenna (Set)		1	1										2
Mast		6	6										12
Measuring Instrument & Tools (B)		1	1										2
" " (MC)				1	1	1	1	1	1	1	1	1	9
Power Plant (Set)		2	2			1							5
Power Plant for M. Center				1	1		1	1	1	1	1	1	8

LIST OF EQUIPMENT TO BE PROVIDED
FOR GENERAL COAST STATION
(SHORT TERM DEVELOPMENT PROGRAM IN REPELITA IV)

Installation	Location															Total			
	Belawan	Dumai	Jakarta	Surabaya	Ranjarmanan	Ujung Pandang	Nitung	Ambon	Jayapura	Palembang	Tg. Uban	Teluk Bayur	Pontianak	Gilacap	Lembar		Kupang	Kondari	
1 KW MF TG Transmitter	2	2		2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	32
1 KW MF/HP TG.TP Transmitter	6	6		6	5	3	3	6	3	5	3	5	5	3	3	4	3	69	
0.1 KW HP TP Transceiver					1								1	1	1	1	1	6	
1 KW Matching Unit					1						1	1	1	1	1	1	1	8	
1 KW Dummy Load					1						1	1	1	1	1	1	1	8	
Ant. Matrix					1						1	1	1	1	1	1	1	8	
MF/HP Receiver	1	1		1	7	2	3	2	3	7	5	7	7	5	5	6	5	67	
Freset Unit	1	1		1	5	2	3	2	3	5	3	5	5	3	3	4	3	49	
Scan Unit					2					2	2	2	2	2	2	2	2	18	
Ant. Multicoupler					2	1	1	1	1	2	2	2	2	2	2	2	2	22	
Ant. Exchanger	1	1		1	7	2	3	2	3	7	5	7	7	5	5	6	5	67	
Operator's Position	2	2	2	2	5	2	3	2	3	5	4	5	5	3	4	4	4	57	
Supervisory Console					1					1	1	1	1	1	1	1	1	9	
Remote Control Unit	3	3		3	3	2	2	3	2	3	2	3	3	2	2	2	2	40	
VOCAS					1					2	2	3	3	2	2	2	2	19	
TP Repeater	1	1	2	1	1	1	1	1	1	3	3	4	4	3	3	3	3	36	
Morse Tape Transmitter					1					1	1	1	1	1	1	1	1	9	
ARQ	1	1	2	1	1	1	1	1	1									10	
Teleoperation Unit (NSDP)	1	1	2	1	1	1	1	1	1									10	
Teleprinter	1	1	2	1	1	1	1	1	1									10	
UHF 12ch TR with Max VPT & Antenna					1					1	1	1	1	1	1	1	1	9	
VHF T/R with Ant. & Duplexer	2	2	4	2	4	2	2	2	1	4	3	4	2	1	3	3	3	44	
500 kHz Auto Alarm Receiver					1					1	1	1	1	1	1	1	1	9	
2182 "					1					1	1	1	1	1	1	1	1	9	
Antenna (Set)					1					1	1	1	1	1	1	1	1	9	
Mast					4					5	5	5	5	5	5	5	5	44	
DSC Unit	1	1	2	1	1	1	1	1	1									10	
Power Plant (Set)	2	2		2	2	2	2	2	2		2	2	2	2	2	2	2	30	

APPENDIX 23 (3/8)

LIST OF EQUIPMENT TO BE PROVIDED
FOR GENERAL COAST STATION
(LONG TERM DEVELOPMENT PROGRAM IN REPELITA V)

Installation	Location											Total			
	Sabang	Panjang	Cirebon	Samarang	Samarinda	Tarakan	Donggala	Biak	Tg. Balai Karimun	Tg. Pinag	Jambi		Dili	One Class-D Station	95 Class-D Station
1 KW MF TG Transmitter	2	2	2	2	2	2	2	2							16
1 KW MF/HP TG.TP Transmitter	3	3	3	1	5	5	3	3							26
0.1 KW HF TP Transceiver	1				1	1	1	1	1	1		1			8
1 KW Matching Unit	1	1	1	1	1	1	1	1							8
1 KW Dummy Load	1	1	1		1	1	1	1							7
Ant Matrix	1	1	1		1	1	1	1							7
MF/HP Receiver	5	5	5		7	7		5	3	3	3	3			46
Preset Unit	3	3	3		5	5		3	3	3	3	3			34
Scan Unit	2	2	2		2	2		2							12
Ant. Multicopler	2	2	2		2	2		2							12
Ant. Exchanger	5	5	5		7	7		5							34
Operator's Position	4	4	4		5	6		4							27
Supervisory Console	1	1	1	1	1	1	1	1							8
Remote Control Unit	2	2	2	1	3	3	2	2							17
VODAS	2	2	2	1	3	3	2	2							17
TP Repeater	3	3	3	1	4	4	3	3	1	1	1	1	(1)	95	119
Morse Tape Transmitter	1	1	1	1	1	1	1	1							8
ARQ															
Teleoperation Unit															
Teleprinter															
UHF 12CH TR with Max VFT & Antenna	1	1	1		1	1	1	1					(3)	285	232
VHF T/R with Ant. & Duplexer	3	2	2	1	3	4	2	3	3	3	3	3			32
500 kHz Auto Alarm Receiver	1	1	1		1	1	1	1							7
2182 " " " "	1	1	1		1	1	1	1							7
Antenna (Set)	1	1	1	1	1	1	1	1							8
Mast	5	5	5		5	5	5	5	2	2	1	1	(1)	95	130
Disc Unit															
Power Plant (Set)	2	2	2		2	2	2	2	1	1	1	1	(1)	95	113

LIST OF EQUIPMENT TO BE PROVIDED
FOR GENERAL COAST STATION
(LONG TERM DEVELOPMENT PROGRAM IN REPELITA VI)

Installation	Location										Total
	Sibolga	Ternate	Mezauke	Fak Fak	Pararukan	Benoa	Sampit	Marokwari	Single Class-D Station	108 Class-D Stations	
1 KW MF TG Transmitter	2	2	2	2							8
1 KW MF/HP TG.TP Transmitter	5	3	3	5							16
0.1 KW HF TP Transceiver	1	1	1	1	1		1	1			7
1 KW Matching Unit	1	1	1	1							4
1 KW Dummy Load	1	1	1	1							4
Ant Matrix	1	1	1	1							4
MF/HP Receiver	7	3	5	7	3	3	3	3			34
Preset Unit	5	2	3	5	3	3	3	3			27
Scan Unit	2	1	2	2							7
Ant. Multicoupler	2	1	2	2							7
Ant. Exchanger	7	3	5	7							22
Operator's Position	6	3	3	6							18
Supervisory Console	1	1	1	1							4
Remote Control Unit	3	2	2	3							10
VODAS	3	2	2	3							10
TP Repeater	4	3	3	4	1	1	1	1	(1)	108	126
Morse Tape Transmitter	1	1	1	1							4
ARQ											
Teleoperation Unit											
Teleprinter											
UHF 12ch TR with Max VFT & Antenna	1	1	1	1							4
VHF T/R with Ant. & Duplexer	4	3	1	4	3	3	3	3	(3)	324	348
500 kHz Auto Alarm Receiver	1	1		1							3
2182 " " " "	1	1		1							3
Antenna (Set)	1	1	1	1	1	1	1	1	(1)	108	40
Mast	5	5	5	5	2	2	2	2	(1)	108	136
DSC Unit											
Power Plant (Set)	2	2	2	2	1	1	1	1	(1)	108	120

**LIST OF EQUIPMENT TO BE PROVIDED
FOR COAST STATIONS, DF STATIONS & KPLP DETACHMENT
(URGENT DEVELOPMENT PROGRAM IN REPELITA III)**

Installation	Station											Total
	Medan (Belawan)	Dumai	Tg/ priok & Jakarta Central	Surabaya	Ujung Pandang	Menado (Bitung)	Ambon	Balikpapan	Sorong	Belitung		
5 KW MF/HF TG/TP TX			2									2
1 " " " "	3	3	1	3	3	3	3	1	1			21
0.5" " " "								2	2	1		5
Spot RX (6 x Freq.)	2	2	2	2	2	2	2	1	1			16
Allwave RX	2	2	2	2	2	2	2	1	1	1		17
Operation Console	1	1	1	1	1	1	1	1	1	1		10
UHF Link	1	1	1	1	1	1	1	2	2	1		12
VFT	1	1	1	1	1	1	1	1	1	0		9
VHF T/R 5ch	2	2	3	2	2	3	2	2	2	0		20
Power Supply	1	1	1	1	1	1	1	1	1	1		10
DF RX								1	1	1		3
DF Monitor Console								1	1	1		3
TX Antenna Tower	2	2	2	2	2	2	2	2	2	2		20
RX Antenna Tower	2	2	2	2	2	2	2	2	2			18
ARQ	1	1	1	1	1	1	1					7
Teleprinter	5	6	11	9	4	4	4	1	1			45
Rocke Ant. & Earth for DF								1	1	1		3
Ant. Expansion & Earthing	1	1	1	1	1	1	1	1	1	1		10
DF Hut								1	1	1		3
Measuring Instrument	1	1	1	1	1	1	1	1	1	1		10
Spares	1	1	1	1	1	1	1	1	1	1		10

**LIST OF EQUIPMENT TO BE PROVIDED
FOR COAST STATIONS, DF STATIONS & KPLP DETACHMENT
(SHORT TERM DEVELOPMENT PROGRAM IN REPELITA IV)**

Installation	Station									
	Tg. Uban	Teluk Bayur	Pontianak	Cilacap	Lenbar	Kupang	Banjarmasin	Kendari	Jayapura	Total
5 KW MF/HF TG/TP TX										
1 " " " "	3	1	1	1	3	1	1	1	1	13
0.5" " " "	4	2	2	2	4	2	3	2	3	24
Spot RX (6 x Freq.)	1	1	1	1	1	1	2	1	2	11
Allwave RX	1	1	1	1	1	1	2	1	2	11
Operation Console	1	1	1	1	1	1	1	1	1	9
UHF Link	2	2	2	2	2	2	2	2	2	18
VFT	1	1	1	1	1	1	1	1	1	9
VHF T/R 5ch	2	2	2	2	2	2	2	2	2	18
Power Supply	1	1	1	1	1	1	1	1	1	9
DF RX	1	1	1	1	1	1	1	1		8
DF Monitor Console	1	1	1	1	1	1	1	1		8
TX Antenna Tower	1	2	2	2	1	2	2	2	2	16
RX Antenna Tower	1	2	2	2	1	2	2	2	2	16
Conical Monopole	1				1					2
ARQ							1		1	2
Teleprinter	1	1	1	1	1	1	7	1	8	22
Rocke Ant. & Earth for DF	1	1	1	1	1	1	1	1		8
Ant. Expansion & Earthing	1	1	1	1	1	1	1	1	1	9
DF Hut	1	1	1	1	1	1	1	1		8
Measuring Instrument	1	1	1	1	1	1	1	1	1	9
Spares	1	1	1	1	1	1	1	1	1	9

LIST OF EQUIPMENT TO BE PROVIDED
FOR COAST STATIONS, DF STATIONS & KPLP DETACHMENT
(LONG TERM DEVELOPMENT PROGRAM IN REPELITA V)

Installation	Station														Total		
	Sabang	Palembang	Panjang	Cirebon	Semarang	Samarinda	Tarakan	Blak	Sumba	Dili	Baubau	Donggala	Corontalo	Jandena		Tual	Kep-Aru
5 KW HP/HP 1G/TP TX																	
1 " " " "	1	1	1	1	1	3	1	3									12
0.5" " " "	2	2	2	2	2	4	2	4	1	1	1	1	1	1	1	1	28
Spot RX (6 x Freq.)	1	1	1	1	1	1	1	1									8
Allwave RX	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	16
Operation Console	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	16
UHF Link	2	2	2	2	2	2	2	2	1	1	1	1	1	1	1	1	24
VFT	1	1	1	1	1	1	1	1									8
VHF T/R 5ch	2	2	2	2	2	2	2	2	0	0	0	0	0	0	0	0	16
Power Supply	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	16
DF RX	1	1	1		1	1	1	1	1	1	1	1	1	1	1	1	15
DF Monitor Console	1	1	1		1	1	1	1	1	1	1	1	1	1	1	1	15
TX Antenna Tower	2	2	2	2	2	1	2	1	2	2	2	2	2	2	2	2	30
RX Antenna Tower	2	2	2	2	2	1	2	1									14
Conical Monopole						1		1									2
Teleprinter	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	16
Rocke Ant. & Earth for DF	1	1	1		1	1	1	1	1	1	1	1	1	1	1	1	15
Ant. Expansion & Earthing	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	16
DF Hut	1	1	1		1	1	1	1	1	1	1	1	1	1	1	1	15
Measuring Instrument	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	16
Spares	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	16

LIST OF EQUIPMENT TO BE PROVIDED
FOR COAST STATIONS, DF STATIONS & KPLP DETACHMENT
(LONG TERM DEVELOPMENT PROGRAM IN REPELITA VI)

Installation	Station														Total
	Sibolga	Ternate	Fak-Fak	Merauke	Bengkulu	Karimunjawa	Belawan	Dumai	Jakarta	Surabaya	Ujung Pandang	Bitung	Ambon	Jayapura	
5 KW MF/HF TG/TP TX															
1 " " " "	3	3	1	1											8
0.5" " " "	4	4	2	2	1	1									14
Spot RX (6 x Freq.)	1	1	1	1											4
Allwave RX	1	1	1	1	1	1									6
Operation Console	1	1	1	1	1	1									6
UHF Link	2	2	2	2	1	1	1	1	1	1	1	1	1	1	18
VFT	1	1	1	1											4
VHF T/R Sch	2	2	2	2			1	1	1	1	1	1	1	1	16
Power Supply	1	1	1	1	1	1									6
DF RX	1	1	1	1	1	1	1	1	1	1	1	1	1	1	14
DF Monitor Console	1	1	1	1	1	1	1	1	1	1	1	1	1	1	14
TX Antenna Tower	1	1	2	2	2	2									10
RX Antenna Tower	1	1	2	2											6
Conical Monopole	1	1													2
Teleprinter	1	1	1	1											4
Rocke Ant. & Earth for DF	1	1	1	1	1	1	1	1	1	1	1	1	1	1	14
Ant. Expansion & Earthing	1	1	1	1	1	1									6
DF Hut	1	1	1	1	1	1	1	1	1	1	1	1	1	1	14
Measuring Instrument	1	1	1	1	1	1									6
Spares	1	1	1	1	1	1	1	1	1	1	1	1	1	1	14

List of Measuring Equipment and Tools

<u>No.</u>	<u>Item</u>	<u>Quantity (Note)</u>				
		<u>M/C</u>	<u>A</u>	<u>B</u>	<u>C</u>	<u>D</u>
1.	Signal generator for HF	1				
2.	Oscilloscope	1	1	1	1	1
3.	Signal analyser	1				
3.1	IF section	1				
3.2	RF section	1				
3.3	Cable	1				
4.	Analog voltmeter	1				
5.	Electronic counter	1	1	1	1	
6.	Multimeter	2	2	2	1	1
7.	Field strength meter	1				
8.	Artificial voice generator	1	1	1		
9.	Distortion meter	1				
10.	Bandwidth meter	1	1	1		
11.	Trolley	1	1	1		
12.	Terminating wattmeter	1	1	1	1	1
13.	FM linear detector	1				
14.	Electronic voltmeter	1				
15.	Standard signal generator	1				
16.	Terminated power meter	1	1	1		
17.	Signal generator for VHF & UHF	1				
18.	Frequency counter	1				
19.	Psophometric weighting network	1				
20.	Selective level meter & oscillator	1				
21.	Directional coupler	1				
22.	Coaxial detector	1				
23.	Maintenance tools	5	5	3	1	1

Note M/C ... Maintenance Center

A,B,C & D ... Class A, Class B, Class C &
Class D Coast Stations

Building Space & Cost

Required building spaces and costs are estimated as follows.

1. Spaces

(1) General coast stations

REPELITA III
Balikpapan & Sorong $405 \text{ m}^2 \times 2 = 810 \text{ m}^2$

REPELITA IV
Surabaya, Ujung
Pandang & Ambon $275 \times 3 = 825$
Banjarmasin 485
7 Class B stations $405 \times 7 = 2,835$
Total $4,145 \text{ m}^2$

REPELITA V
7 Class B stations $405 \times 7 = 2,835$
95 Class D stations $70 \times 95 = 6,650$
Total $9,485 \text{ m}^2$

REPELITA VI
Sibolga, Ternate,
Merauke & Fak-Fak $405 \times 4 = 1,620$
108 Class D stations $70 \times 108 = 7,560$
Total $9,180 \text{ m}^2$

(2) SAR & DF Facilities

REPELITA III
9 ROS $120 \times 9 = 1,080$
2 DF facilities $30 \times 2 = 60$
1 DF station $150 \times 1 = 150$
Total $1,290 \text{ m}^2$

REPELITA IV
7 ROS $120 \times 7 = 840$
2 SAR consoles $10 \times 2 = 20$
9 DF facilities $30 \times 9 = 270$
Total $1,130 \text{ m}^2$

REPELITA V
8 SAR consoles $10 \times 8 = 80$
7 DF facilities $30 \times 7 = 210$
8 DF stations $150 \times 8 = 1,200$
Total $1,490 \text{ m}^2$

REPELITA VI
4 SAR consoles $10 \times 4 = 40$
11 DF facilities $30 \times 11 = 330$
2 DF stations $150 \times 2 = 300$
Total 670 m^2

(3) No. of air conditioning equipment is as follows;

NOTE: u ... Unit(s)

<u>REPELITA</u>	<u>Coast Station</u>	<u>SAR & DF Facilities</u>	<u>Total</u>
III	3u x 2 st. = 6	ROS 2u x 9 = 18u DF Fac. 1u x 2 = 2 u DF St. 3u x 1 = 3 u	29u
IV	Cl-A,RX 2u x 3 = 6u Banjarmasin 3u x 1 = 3u Others 3u x 7 = 21u	ROS 2u x 7 = 14u DF Fac. 1u x 9 = 9u	53u
V	Cl-B st. 3u x 7 = 21u Cl-D st. 1u x 95 = 95u	DF Fac. 1u x 7 = 7u DF St. 3u x 8 = 24u	147u
VI	Cl-B st. 3u x 4 = 12u Cl-D st. 1u x 108 = 108u	DF Fac. 1u x 11 = 11u DF St. 3u x 2 = 6u	137u

(4) Cost estimation for buildings is given in the table below.

Unit: Milion Rupiahs

<u>REPELITA</u>	<u>Building</u>		<u>Air Condition eqpt.</u>		<u>Total</u>
	<u>Coast St.</u>	<u>SAR & DF</u>	<u>Coast St.</u>	<u>SAR & DF</u>	
III	227.4	362.2	7.2	34.8	631.6
IV	1,163.9	317.3	36.0	63.6	1,580.8
V	2,663.4	418.4	139.2	146.4	3,367.4
VI	2,577.7	188.1	144.0	164.4	3,074.2

**DEPARTEMEN PERHUBUNGAN
DIREKTORAT JENDERAL PERHUBUNGAN LAUT**

**SUSUNAN TRAYEK
PELAYARAN NUSANTARA
TETAP DAN TERATUR
(REGULAR LINER SERVICE)
R.L.S**

1979/80 - 1983/84

**S.K. DIRJEN PERLA Nomor : 13/1/8
Tgl. 12 Juli 1979**

L A M P I R A N
SURAT KEPUTUSAN DIREKTUR JENDERAL PERHUBUNGAN LAUT
NO. : DAL 13/1/8 TANGGAL : 12 JULI 1979
SUSUNAN TRAYEK PELAYARAN NUSANTARA RLS TAHUN 1979-1983

CODE TRAYEK	URAIAN TRAYEK
	<u>WILAYAH BARAT</u>
N - 1	BELAWAN - (Aceh Ports) - PENANG/PORT KLANG - (Ports Dickson) - (Kantang) - BELAWAN
N - 2	BELAWAN - PALEMBANG - (Kuala Tungkal) - (Tembilahan) - (Kuala Enok) - (Pakan Baru) - BELAWAN
N - 3	PADANG - (Sibolga) - MALAHAYATI DSK - (Padang) - SINGA-PURA - (Belawan) - (Malahayati dsk) - (Aceh Ports) - (Sibolga) - PADANG
N - 4	TANJUNG PRIOK - PANJANG - TANJUNG PRIOK
N - 5	TANJUNG PRIOK - PADANG - BENGKULU - TANJUNG PRIOK
N - 6	TANJUNG PRIOK - PADANG - (Tanjung Pinang) - JAMBI/PALEMBANG - TANJUNG PRIOK
N - 7	TANJUNG PRIOK - (Cirebon) - PALEMBANG/JAMBI - (Cirebon) - TANJUNG PRIOK
N - 8	TANJUNG PRIOK - (Tg. Sekong/Cigading) - JAMBI/PAKAN BARU DSK - (Dumai) - (Bengkalis) - (Bagan Siapiapi dsk) - (Selat Panjang) - (Cirebon) - TANJUNG PRIOK
N - 9	TANJUNG PRIOK - BELAWAN - (West Malaysian Ports) - (Singapura) - (Dumai) - (Jambi) - TANJUNG PRIOK

CODE TRAYEK	URAIAN TRAYEK
N - 10	TANJUNG PRIOK - PONTIANAK DSK - (Jambi) - (Pangkal Pinang) - TANJUNG PRIOK
N - 11	TANJUNG PRIOK - PONTIANAK DSK - SINGAPURA - TANJUNG PRIOK
N - 12	SEMARANG - (Kuala Gaung) - (Kuala Tungkal) - (Selat Panjang) - (Tembilahan) - (Rengat) - PAKAN BARU/BAGAN SIPIAPI DSK - (Bengkalis) - (Selat Panjang/Tanjung Kedabu) - (Cirebon/Surabaya dsk) - SEMARANG
N - 13	SEMARANG - PEMANGKAT/TANJUNG PINANG DSK - (Selat Panjang) - (Tembilahan) - (Tanjung Priok) - (Cirebon) - SEMARANG
N - 14	SEMARANG - (Cirebon) - PONTIANAK/PEMANGKAT - (Singapura) - (Cirebon) - SEMARANG
N - 15	SURABAYA DSK - (Cattle Ports) - (Panjang) - (Bengkulu) - PADANG - PANJANG/PALEMBANG - (Cirebon) - (Semarang) - SURABAYA DSK
N - 16	SURABAYA DSK - PK. PINANG/BLINYU - (Tanjung Pandan) - (Manggar) - (Tanjung Priok) - (Cirebon) - (Semarang) - SURABAYA DSK
N - 17	SURABAYA DSK - (Cattle Ports) - (Tanjung Priok) - PALEMBANG - (Cirebon) - (Semarang) - (Bali/N.T.B.) - SURABAYA DSK
N - 18	SURABAYA DSK - (Cattle Ports) - JAMBI - (Singapura) - (Selat Panjang) - (Cirebon) - SURABAYA DSK
N - 19	SURABAYA DSK - (Kuala Tungkal) - (Jambi) - (Pk. Baru dsk/ Bengkalis) - BAGANSIPIAPI DSK/KUALA ENOK - (Cirebon) - (Semarang) - SURABAYA DSK

CODE TRAYEK	URAIAN TRAYEK
N - 20	SURABAYA DSK - (Cirebon/Balongan) - TANJUNG PRIOK - PALEMBANG DSK - DUMAI - BELAWAN DSK - (Pulau Batam) - (Belawan) - (Dumai) - PALEMBANG DSK - TANJUNG PRIOK - (Cirebon/Balongan) - SURABAYA DSK
N - 21	SURABAYA DSK - (Singapura) - BELAWAN - (Singapura) - (Semarang) - SURABAYA DSK
N - 22	SURABAYA DSK - (West Malaysian Ports) - BELAWAN - (Malahayati dsk) - (Aceh Ports) - (West Malaysian Ports) - (Singapura) - SURABAYA DSK
N - 23	SURABAYA DSK - (Semarang) - PONTIANAK DSK - (Singapura) - CIREBON/SEMARANG - SURABAYA DSK
	<u>WILAYAH TIMUR</u>
N - 24	TANJUNG PRIOK - (Banjarmasin dsk) - BALIKPAPAN/SAMARINDA - BANJARMASIN DSK - (Sampit) - TANJUNG PRIOK
N - 25	TANJUNG PRIOK - UJUNG PANDANG - (Kota Baru) - TANJUNG PRIOK
N - 26	TANJUNG PRIOK - (Surabaya) - (Ujung Pandang) - (Parepare/Donggala/Pantoloan) - BITUNG - (Ternate dsk) - (Siau dsk) - (Tahuna dsk) - (Bitung) - (Manado) - (Tolitoli) - (Donggala) - (Ujung Pandang) - (Surabaya) - TANJUNG PRIOK
N - 27	TANJUNG PRIOK - (Surabaya) - UJUNG PANDANG - (Parepare) - KENDARI DSK - (Luwuk dsk) - (Posso dsk) - GORONTALO/BITUNG - (Ternate dsk) - BITUNG/GORONTALO - (Parigi dsk) - (Posso dsk) - (Luwuk dsk) - (Kendari) - (Ujung Pandang) - (Surabaya) - TANJUNG PRIOK

CODE TRAYEK	URAIAN TRAYEK
N - 28	TANJUNG PRIOK - UJUNG PANDANG - (Ambon) - (Sorong) - (Manokwari) - BIAK - JAYAPURA - (Biak) - (Manokwari) - (Sorong) - (Ambon) - (Kendari dsk) - (Ujung Pandang) - (Surabaya) - TANJUNG PRIOK
N - 29	TANJUNG PRIOK - (Surabaya) - DILLY - KUPANG - (Cattle Ports) - (Surabaya) - TANJUNG PRIOK
N - 30	SURABAYA DSK - BANJARMASIN DSK/SAMPIT - (Bali) - SURABAYA DSK
N - 31	SURABAYA DSK - (Kota Baru dsk) - (Ujung Pandang) - (Parepare) - (Donggala) - BALIKPAPAN DSK/SAMARINDA DSK - (Tarakan dsk) - (Donggala) - (Samarinda dsk) - (Balikpapan dsk) - (Kota Baru dsk) - SURABAYA DSK
N - 32	SURABAYA DSK - (Kota Baru dsk) - BALIKPAPAN/TARAKAN DSK - (Tolitoli) - (Donggala) - (Kota Baru dsk) - SURABAYA DSK
N - 33	SURABAYA DSK - (Ujung Pandang) - (Pare-Pare) - (Mamuju) - DONGGALA DSK/TARAKAN DSK - (Tolitoli dsk) - (Donggala) - (Mamuju) - (Ujung Pandang) - SURABAYA DSK
N - 34	SURABAYA DSK - UJUNG PANDANG - BALIK PAPAN/SAMARINDA/BANJARMASIN - (Bali) - (N.T.B.) - SURABAYA DSK
N - 35	SURABAYA DSK - UJUNG PANDANG - (Pare Pare) - (Majene) - (Mamuju) - (Ujung Pandang) - SURABAYA DSK
N - 36	SURABAYA DSK - (Ujung Pandang) - (Pare Pare) - (Donggala) - BITUNG - (Siau dsk) - (Tahuna dsk) - (Ternate dsk) - (Bitung) - (Manado dsk) - (Tolitoli) - (Donggala) - (Ujung Pandang) - SURABAYA DSK

CODE TRAYEK	URAIAN TRAYEK
N - 37	SURABAYA DSK - (Ujung Pandang) - KENDARI/GORONTALO - (Luwuk dsk) - (Banggai dsk) - (Posso dsk) - (Ujung Pandang) - SURABAYA DSK
N - 38	SURABAYA DSK - GORONTALO DSK/TELUK TOMINI - (Kendari) - SURABAYA DSK
N - 39	SURABAYA DSK - (Ujung Pandang) - (Kendari) - BITUNG - LUWUK/BANGGAI DSK - (Kendari) - (Ujung Pandang) - SURABAYA DSK
N - 40	SURABAYA DSK - BENOA - AMPENAN - (Sumbawa/Bima) - (Buleleng) - SURABAYA DSK
N - 41	SURABAYA DSK - BULELENG - AMPENAN - (Reo) - MAUMERE - (Larantuka) - (Bima) - (Sumbawa) - SURABAYA DSK
N - 42	SURABAYA DSK - (Benoa) - (Ampenan) - (Waingapu) - (Ende) - KUPANG DSK - (Atapupu) - (Larantuka) - (Maumere) - (Reo) - (Bima) - (Sumbawa) - SURABAYA DSK
N - 43	SURABAYA DSK - (Tual) - AMBON DSK - TERNATE DSK - (Baubau/Selayar) - (Ujung Pandang) - SURABAYA DSK
N - 44	SURABAYA - UJUNG PANDANG - (Cattle Ports) - (Ambon dsk) - SORONG - MANOKWARI - BIAK - JAYAPURA - (Biak) - (Sorong) - (Kendari dsk/Baubau) - UJUNG PANDANG - SURABAYA
N - 45	SURABAYA DSK - UJUNG PANDANG - (Ambon) - (Sorong) - (Fakfak) - MERAUKE DSK - AGATS - (Ambon) - (Ujung Pandang) - (Cattle Ports) - SURABAYA DSK

CODE TRAYEK	URAIAN TRAYEK
N - 46	UJUNG PANDANG - JAYAPURA - SORONG - UJUNG PANDANG
N - 47	UJUNG PANDANG - (Ambon) - FAKFAK - MERAUKE DSK - (Agats) - UJUNG PANDANG

CODE TRAYEK	URAIAN TRAYEK
	<u>TRAYEK PENUMPANG DLL</u>
P - 1	BELAWAN/M.K.S. PORTS - TANJUNG PRIOK - BELAWAN/ M.K.S. PORTS
P - 2	TANJUNG PRIOK - PADANG - TANJUNG PRIOK
P - 3	TANJUNG PRIOK - MENTOK - TANJUNG PINANG - BELAWAN - TANJUNG PINANG - MENTOK - TANJUNG PRIOK
P - 4	TANJUNG PRIOK - SURABAYA - UJUNG PANDANG - DONG- GALA - (Tolitoli) - BITUNG - TERNATE DSK - (Bitung) - (Manado) - (Tolitoli) - DONGGALA - UJUNG PANDANG - SURABAYA - TANJUNG PRIOK
P - 5	TANJUNG PRIOK - SURABAYA/UJUNG PANDANG - AMBON - SORONG - BIAK - JAYAPURA - (Manokwari) - (Sorong) - (Ambon) - (Baubau) - UJUNG PANDANG - (Surabaya) - TANJUNG PRIOK
P - 6	SURABAYA - UJUNG PANDANG - (Teluk Bone dsk) - (Kendari dsk/Luwuk dsk/Banggai dsk) - (Posso dsk/Panigi dsk/Gorontalo dsk) - BITUNG - (Sangir Talud dsk) - TERNATE DSK - BITUNG - (Balik- papan) - (Tolitoli dsk/Donggala dsk/Parepare dsk) - (Ujung Pandang) - SURABAYA
P - 7	BANABUNGI/BAUBAU - PELABUHAN SELURUH INDONESIA - BANABUNGI/BAUBAU

C A T A T A N :

P - 1 : Angkutan minyak kelapa sawit.

P - 2 : Lin ekspress penumpang.

P - 3 : Lin Ekspress penumpang.

P - 4 : Angkutan penumpang/barang.

P - 5 : Angkutan penumpang/barang.

P - 6 : Distribusi minyak bumi.

P - 7 : Angkutan asphalt.

CODE TRAYEK	URAIAN TRAYEK
S - 1	<p><u>INDONESIA – SINGAPURA PP.</u></p> <p>BELAWAN - (Malahayati dsk) - (Aceh Ports) - (West Malaysian Ports) - SINGAPURA - (Pulau Batam) - (West Malaysian Ports) - BELAWAN</p> <p>SINGAPURA - BELAWAN - (West Malaysian Ports) - SINGAPURA</p>
S - 2	<p>—</p> <p>SINGAPURA - MALAHAYATI DSK - (Lho Seumawe) - (West Malaysian Ports) - SINGAPURA</p>
S - 3	<p>PAKANBARU DSK - (Dumai) - SINGAPURA - (Dumai) - PAKAN BARU DSK</p> <p>—</p>
S - 4	<p>JAMBI - SINGAPURA - (Pulau Batam) - JAMBI - SINGAPURA - JAMBI - SINGAPURA</p>
S - 5	<p>PALEMBANG - (Tin Ports) - SINGAPURA - (Pulau Batam) - PALEMBANG - SINGAPURA - PALEMBANG - SINGAPURA</p>
S - 6	<p>—</p> <p>SINGAPURA - TANJUNG PRIOK/PANJANG - (Bengkulu) - SINGAPURA</p>
S - 7	<p>PADANG - PANJANG - SINGAPURA - (Tg. Sekong/Cigading) - PADANG</p>

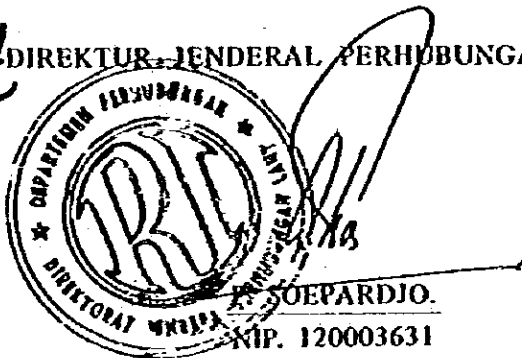
CODE TRAYEK	URAIAN TRAYEK
S - 8	<p>TANJUNG PRIOK - (Panjang) - (Tin Ports) - SINGAPURA - (Pulau Batam) - (Tin Ports) - (Tg. Sekong/Cigading) - TANJUNG PRIOK</p> <p>SINGAPURA - PANGKAL BALAM/TANJUNG PRIOK - (West Malaysian Ports) - SINGAPURA</p>
S - 9	<p>TANJUNG PRIOK/CIREBON - SINGAPURA - (Pulau Batam) - TANJUNG PRIOK/CIREBON</p> <p>SINGAPURA - TANJUNG PRIOK/CIREBON - SINGAPURA</p>
S - 10	<p>—</p> <p>SINGAPURA - TANJUNG PRIOK - (Tegal) - (Semarang - SINGAPURA</p>
S - 11	<p>SURABAYA DSK - (Dilly) - (Cattle Ports) - (Surabaya dsk) - (Kumai/Sampi) - SINGAPURA - (Tanjung Priok) - (Dilly) - SURABAYA DSK</p> <p>SINGAPURA - SURABAYA - SINGAPURA</p>
S - 12	<p>PONTIANAK DSK - (Singkawang) - (Pemangkat) - (Sambas) - (Tanjung Pinang) - SINGAPURA - PONTIANAK DSK</p> <p>SINGAPURA - PONTIANAK/TELOK AYER - (Tanjung Pinang) - SINGAPURA</p>
S - 13	<p>PEMANGKAT/SINGKAWANG - (Sambas) - (Tambelan) - (Tanjung Pinang) - SINGAPURA - (Tanjung Pinang) - (Sambas) - PEMANGKAT/SINGKAWANG</p>

CODE TRAYEK	URAIAN TRAYEK
S - 14	<p>BANJARMASIN DSK - (Sampit) - (Kumai) - SINGAPURA - (Tegal) - (Semarang) - (Surabaya) - BANJARMASIN DSK</p> <p>SINGAPURA - (Tegal) - (Semarang) - (Surabaya) - BANJARMASIN - (Sampit) - SINGAPURA</p>
S - 15	<p>SAMARINDA DSK/BALIKPAPAN DSK - (Banjarmasin dsk) - SINGAPURA - (Pulau Batam) - BALIKPAPAN DSK/SAMARINDA DSK</p> <p>SINGAPURA - (Banjarmasin) - BALIKPAPAN/SAMARINDA - (Banjarmasin) - SINGAPURA</p>
S - 16	<p>—</p> <p>SINGAPURA - BALIKPAPAN/SAMARINDA - (Donggala) - UJUNG PANDANG - (Surabaya) - SINGAPURA</p>
S - 17	<p>UJUNG PANDANG/MALILI - SINGAPURA - UJUNG PANDANG/MALILI</p> <p>SINGAPURA - UJUNG PANDANG/MALILI - SINGAPURA</p>
S - 18	<p>JAYAPURA - (Biak) - (Sorong) - (Fakfak) - (Ambon) - (Ternate) - (Bitung) - (Parepare) - UJUNG PANDANG - SINGAPURA - (Tanjung Priok) - (Ujung Pandang) - (Ambon) - SORONG - (Manokwari) - (Biak) - JAYAPURA</p>
S - 19	<p>—</p> <p>SINGAPURA - BALIKPAPAN/SAMARINDA - (Tarakan) - BITUNG - (Ujung Pandang) - (Surabaya) - SINGAPURA</p>

CODE TRAYEK	URAIAN TRAYEK
S - 20	SORONG - SINGAPURA - SORONG

JAKARTA, 12 JULI 1979.

DIREKTUR JENDERAL PERHUBUNGAN LAUR



SOEPARDJO.
NIP. 120003631

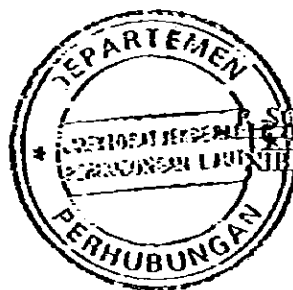
**LAMPIRAN : SURAT KEPUTUSAN DIREKTUR JENDERAL PERHUBUNGAN LAUT
NO. DAL. 13/1/5 TANGGAL 18 AGUSTUS 1980
T E N T A N G
PENYEMPURNAAN SUSUNAN TRAYEK PELAYARAN NUSANTARA
REGULAR LINER SERVICE (RLS) UNTUK TAHUN 1979 S/D 1983**

CODE TRAYEK	URAIAN TRAYEK
N - 3	PADANG - (Sibolga) - MALAHAYATI DSK/BELAWAN - (Padang) - SINGAPURA - (Belawan) - (Malahayati dsk) - (Aceh Ports) - (Sibolga) - PADANG.
N - 26	TANJUNG PRIOK - (Surabaya) - (Ujung Pandang) - (Pare-Pare) DONGGALA/TOLI-TOLI - BITUNG/TERNATE DSK - (Siau dsk) - (Tahuna dsk) - (Bitung) - (Menado) - (Toli-Toli) - (Donggala) - (Ujung Pandang) - (Surabaya) - TANJUNG PRIOK.
N - 29	TANJUNG PRIOK - (Surabaya) - DILLY/KUPANG - (Cattle Ports) - (Surabaya) - TANJUNG PRIOK.
N - 36	SURABAYA DSK - (Ujung Pandang) - (Pare-Pare) - DONGGALA/TOLI/TOLI - BITUNG - (Siau dsk) - (Tahuna dsk) - (Ternate dsk) - (Bitung) - (Menado dsk) - (Toli-Toli) - (Donggala) - (Ujung Pandang) - SURABAYA DSK.
N - 37	SURABAYA DSK - (Ujung Pandang) - KENDARI/GORONTALO - BITUNG - (Luwuk dsk) - (Banggai dsk) - (Poso dsk) - (Ujung Pandang) - SURABAYA DSK.
N - 42	SURABAYA DSK - (Benoa) - (Ampenan) - (Waingapu) - (Ende) - KUPANG DSK/DILLY - (Atapupu) - (Larantuka) - (Mauwere) - (Reo) - (Bima) - (Sumbawa) - SURABAYA DSK.
N - 43	SURABAYA DSK - UJUNG PANDANG - (Tual) - AMBON DSK/TERNATE DSK - (Bau-Bau/Safayar) - (Ujung Pandang) - SURABAYA DSK.
P - 8	SURABAYA - UJUNG PANDANG - BAU-BAU - AMBON - BAU-BAU - UJUNG PANDANG - SURABAYA.
S - 4	JAMBI - SINGAPURA - (Pulau Batam) - JAMBI. SINGAPURA - JAMBI - SINGAPURA.
S - 5	PALEMBANG - (Tin Ports) - SINGAPURA - (Pulau Batam) - PALEMBANG. SINGAPURA - PALEMBANG - SINGAPURA.

CODE TRAYEK	URAIAN TRAYEK
S - 8	TANJUNG PRIOK - (Tanjung Sekong/Cigading) - (Panjang) - (Tin Ports) - SINGAPURA - (Pulau Batani) - (Tin Ports) - (Tanjung Sekong/Cigading) - TANJUNG PRIOK. SINGAPURA - PANGKAL BALAM/TANJUNG PRIOK - (West Malaysian Ports) - SINGAPURA.
S - 11	SURABAYA DSK - (Dilly) - (Cattle Ports) - (Surabaya dsk) - (Kumai/Sampit) - SINGAPURA - (Tanjung Priok) - DILLY/SURABAYA DSK. SINGAPURA - SURABAYA - SINGAPURA.

Jakarta, 18 Agustus 1980.-

DIREKTUR JENDERAL PERHUBUNGAN LAU



SOEPARDJO.

* BERKAS LUBANG NO 20003631

LIST OF PORTS IN INDONESIA

DIREKSI JENDERAL PERANGKATAN LAUT
DIREKTORAT PERKAPALAN DAN PELAYARAN

DAFTAR KESYAHBANDARAN DISTRIBUSI BUKU - BUKU P.U./TAMON 1979

DAFTAR	PELE. WAJIB RAMBU	I	II	III	IV	V	VI	VII	VIII	IX	
Kelas JEL		BELAWAN	DUMAI	TG. FRICK	SUPARNA	BANJARMASIN	UJUNG PANDANG	HANADO	AHABON	JAYAPURA	
I	6	1. Salawan	1. Dumai	1. Palembang 2. Tg. Frick	1. Surabaya		1. Ujung Pandang				
II	10		1. Tg. Pinang 2. Tlk. Bayur	1. Cirebon	1. Semarang	1. Banjarmasin 2. Balikpapan 3. Samarinda		1. Manado/Bitung	1. Anbon	1. Jayapura	
III	24	1. Uise Lheue 2. Sabang 3. Sibolga 4. Kuala Tanjung	1. Pekanbaru 2. Pulau Sambi 3. Tg. Uban	1. Panjang 2. Bengkulu 3. Jambi 4. Sunda Kelapa 5. Pontianak 6. Cigading	1. Angasa/Leber 2. Banca 3. Cilacap 4. Kutang	1. Pingkaraya 2. Tg. Santan 3. Bontang	1. Kendari	1. Donggala		1. Biak 2. Serong	
IV	55	1. Lhok Sumawe 2. Peln. Brandan 3. Peln. Susu 4. Tg. Balai (A) 5. Gg. Sitoli 6. Krueng Raya	1. Bengkalis 2. Bagan Si-Api2 3. Babosingkep 4. Rengat 5. Sel. Panjang 6. Tg. Balai (K) 7. Tebilahan 8. Tarempa	1. Kuala Tungkal 2. Muntok 3. Herak/Tg. Sekoa 4. Pkln. Balan 5. Perangkat 6. Tg. Pandan 7. Teluk Air 8. Tel. Betung 9. Muara Satak 10. Sandas 11. Singkawang 12. Kali Baru	1. Pangkajene 2. Gresik 3. Yaliang 4. Pelabuhan 5. Penarikan 6. Ercoklinggo 7. Tegal 8. Meneng	1. Kotabaru 2. Nunukan 3. Sampit 4. Terakan 5. Pulang Pisau	1. Bau-Bau 2. Pare-Pare 3. Bejo-e 4. Pomalaa	1. Gorontalo 2. Luauk 3. Posso 4. Toli-Toli 5. Tahuna	1. Ternate 2. Dobo	1. Fak-Fak 2. Marchuari 3. Kerauke 4. Amangyare 5. Serui	
V	182	1. Idi 2. Kuala Langsa 3. Lab. Bilik 4. Meulaboh 5. Sigli 6. Singkil 7. Tg. Tiran 8. Leidong 9. Lahewa 10. Pulau Tello 11. Pkln. Dode 12. Sinabang 13. Susoh 14. Tapaktuan 15. Tg. Bringin 16. Tlk. Dalat/ P. Nias 17. Sei. Brozbang 18. Hipako....x)	1. Kuala Raya 2. Kuala Gaung 3. Muara Padang 4. Panipahan 5. Parigiraja 6. Penuba 7. Sinatoy 8. Sei. Pakning 9. Sei. K. Kijang 10. S.S. Indrapura 11. Tg. Serek 12. Tg. Medang 13. Batu Panjang 14. Bandul 15. Batu Aapar 16. Kuala Ekok 17. Kuala Mandah 18. Horo 19. Pulau Halang 20. Psr. Panjang 21. Sei. Guntung 22. Pulau Kijang 23. Sapat 24. Sikupang 25. Senayang 26. Sei. Apit 27. Penyalai/Tlk. Dalas Riau 28. Tg. Kedatu 29. Tg. Batu 30. Air Bangis 31. Euatan....x)	1. Anyer Lor 2. Bojonegoro 3. Bliny 4. Ketapang 5. Sei. Selan 6. Pamanukan 7. Bintuhan 8. Eretan 9. Karangantu 10. Kruil 11. Kota Agung 12. Kalianda 13. Labuhan 14. Menggala 15. Karinggai 16. Mesuji 17. Kanggar 18. Nph. Panjang 19. Paloh/Sekura 20. Sei. Liat 21. Toboali 22. Tlk. Kelano 23. Kendawangan 24. Vay Seputin 25. Sei. Luspur 26. Indraayu 27. Plb. Ratu 28. Moko-Moko 29. Yuntinyuat 30. Pangandaran 31. Kresek 32. Ma. Binuangen.x)	1. Buleleng 2. Esuki 3. Sisa 4. Ende 5. Jepara 6. Muara 7. Pasuruan 8. Sembang 9. Situra 10. Sudewa/Resi 11. Fadangbai 12. Masara 13. Kalitahi 14. Branta 15. Cilisaruk 16. Jangkar 17. Lb. Loabok 18. Penelang 19. Tuban 20. Yalingapur 21. Kalbet 22. Larantuka x) 23. Kespo x) 24. Atapapu x) 25. Brebes x) 26. Reo x)	1. Kuzai 2. Sangkulirang 3. Tanah Grogot 4. Tg. Redap 5. Kuala Kapuas 6. Ka. Pematuang 7. Pkln. Sun 8. Pegatan Pd 9. Cagata 10. Sukanara 11. Saruda 12. Pegatan/Kalsel 13. Tg. Selor 14. Kuala Seboja	1. Kolaka 2. Majene 3. Masuju 4. Malili 5. Palopo 6. Raha 7. Selayar 8. Palawali 9. Biringkasi 10. Jampea x) 11. Bulukuapa x)	1. Amurang 2. Kuandang 3. Kolonedale 4. Banggai 5. Tagulandang 6. Ulu Siau 7. Ampana 8. Belang 9. Beo 10. Bunt 11. Kutabunan 12. Lirung 13. Leko 14. Petta 15. Pagimana 16. Parigi 17. Moutong 18. Tanako 19. Inebonto 20. Tilamuta/Sun- bulan 21. Mianggas x)	1. Anahai 2. Bandanaira 3. Labuha 4. Morotai 5. Piru 6. Sanana 7. Saparua 8. Saulaki 9. Tobelo 10. Eula 11. Elat 12. Leksula 13. Larat 14. Marlea 15. Soe-Siu 16. Tual 17. Tulzhu 18. Geser 19. Jallolo 20. Kairatu 21. Yahai x) 22. Kataloka x)	1. Bintuni 2. Tecinatu 3. Kaisana 4. Serai 5. Nabire 6. Klazono	
	277	263	29	45	41	40	25	17	27	25	14

CATATAN :
 1. Belua termasuk 44 lokasi Kesyahbandaran yang masih dijabat NON DIPL.
 2. x) = Kesyahbandaran belua wajib rambu.
 3. Cigading, Krueng Raya, Meneng, termasuk Kesyahbandaran yang masih di-
 rangkap.
 4. Daftar ini disusun berdasarkan : - SK. Menhub. No. Ka. 47/01/PAB - 1978
 Tanggal 8 Maret 1978.
 - SK. Dirjenla. No. OKU.60/33/12
 Tanggal 23 Juni 1978.

LIST OF MAIN NEWLY PROCURED EQUIPMENT BY T-ST-12 PROJECT

STATIONS EQUIPMENTS	JAKARTA		UJUNG PANDANG		SURABAYA		BELAWAN		DUMAI		BITUNG		JAYAPURA		AMBON		SUKA- RANG		SORONG		MENAUKU		REMARKS
	TX	RX	MC	TX	RX	TX	RX	AD	TX	RX	AD	TX	RX	AD	TX	RX	TX	RX	TX	RX	TX	RX	
TRANSMITTER - 5 KW HF.TG - 5 KW HF.TG.TP - 1 KW MF/HF TG.TP - 100 W HF.TP.T/R	3 8 3			3		1	1		1			3	1		1		3						TG : Telegraphy with FS Keyer TP : Telephony TR : Transceiver
S-S ALL-WAVE REC. - PRESET UNIT - SCANNING UNIT	13 9 4			6 4 2		7 5 2	7 5 2		7 5 2			5 3 2	5 3 2		7 5 2		5 3 2						S-S : Ship to Shore
P-P ALL-WAVE REC. - PRESET UNIT	11 11			2 2		1 1	1 1		1 1			2 2	2 2		1 1		1 1						P-P : Point to Point
A.R.Q. (P-P) VODAS (S-S) LINCOMEX (P-P)	7 2 7			1 1 1		1 1 1	1 1 1		1 1 1			1 1 1	1 1 1		1 1 1		1 1 1						T : T Type M.D. : Multi Doublet D.D. : Double Doublet S.D. : Single Doublet
ANTENNA SYSTEM - T. - M.D. - D.D. - S.D. - FAN - INV.L - CAGE - V. LOG-PERI - CONICAL MONO-POLZ - MATCHING TRANSF. - MULTI-COUPLER - ANT. SELECTOR - TOWER (MAST) - ANT. EXCHANGER (SWITCH) - DUMMY LOAD	1 1 1 1 1 1 1			1 1 1 1 1 1		1 1 1 1 1 1	1 1 1 1 1 1		1 1 1 1 1 1			1 1 1 1 1 1	1 1 1 1 1 1		1 1 1 1 1 1		1 1 1 1 1 1						Note : Including Remote Control Equipment
OPERATION POSITION - SUPERVISORY CONSOLE - CONTROL CONSOLE (Note) - CONTROL DESK (Note)	1 8 4			1 4		1 1	1 1		1 1			1 3	1 1		1 1		1 5						
MONITOR CONSOLE - 500 KHZ AUT.ALM.REC - 2182 KHZ AUT.ALM.REC - DIRECTION FINDER - ALL WAVE REC - SCANNING UNIT - TAPE RECORDER	1 1 1 1 1 1			1 1 1 1 1 1		1 1 1 1 1 1	1 1 1 1 1 1		1 1 1 1 1 1			1 1 1 1 1 1	1 1 1 1 1 1		1 1 1 1 1 1		1 1 1 1 1 1						
UHF LINK - RADIO EQUIPMENT - MULTIPLEX TERMINAL - V.F.T. - ANTENNA - MAST	1 2 2 2 1			1 1 1 1 1		1 1 1 1 1	1 1 1 1 1		1 1 1 1 1			1 1 1 1 1	1 1 1 1 1		1 1 1 1 1		1 1 1 1 1						
VHF SYSTEM - TRANSM/REC. - ANTENNA - CONTROL DESK	4 4 4			3 3 1		3 3 1	3 3 1		3 3 1			3 3 1	3 3 1		3 3 1		3 3 1						ACCESSORIES : Key, microphone, headphone
MISCELLANEOUS - TELEPRINTER - TAPE RECORDER - MORSE TRANSMITTER - ACCESSORIES	2 2 2 1			1 1 1 1		1 1 1 1	1 1 1 1		1 1 1 1			1 1 1 1	1 1 1 1		1 1 1 1		1 1 1 1						
POWER PLANT - DIESEL E.G. - A.V.R. - NO-BREAK POWER WITH PDB - P.D.B.	1 1 1																1 1 1						
MEASURING EQUIPMENT AND TOOLS	1			1		1	1		1			1	1		1		1						For 3 years operation
SPARE PARTS	1			1		1	1		1			1	1		1		1						Cables (coax, power, signal, control) wires fixing hardware, etc.
INSTALLATION MATERIALS	1			1		1	1		1			1	1		1		1						

