## Klingenfuss

## GUIDE TO UTILITY STATIONS

Eighth Edition



edition 16

## Cross reference:

- Latest monitoring results are published in the SUPPLEMENT SERVICE to this manual

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- The decoding of meteorological bulletins like METAR, SHIP, SYNOP etc., the WMO GTS message format used by meteorological stations, as well as the NOTAM SNOWTAM codes and the AFTN message format used by aeronautical fixed stations, are explained in our AIR AND METEO CODE MANUAL
- The FAX technique used by terrestrial stations and meteorological satellites is explained in our GUIDE TO FACSIMILE STATIONS
- This reference book includes many RTTY stations using Arabic, ATU-80 Arabic, Cyrillic and third-shift Cyrillic teleprinter alphabets, stations using F7B and VFT modulation, and stations using ARQ-E, ARQ-E3, ARQ-M, AUTOSPEC, FEC-A, SI-ARQ, SITOR and SWED-ARQ synchronous systems. Detailed information on these alphabets and techniques, amongst many others, is included in our RADIOTELETYPE CODE MANUAL
- Examples on various types of emissions are filed on the MAGNETIC TAPE RECORDING OF MODULATION TYPES
- Frequencies and call signs of utility stations formerly in use are listed in our GUIDE TO FORMER UTILITY TRANSMISSIONS

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Cover photograph: Kentor Stasiun Bumi Kecil (office of a small earth station) of

PERLATEL (Ferusahaan Umum Telekomunikasi). This terminal is located near Kuala 03435

98E2D on the main road (Jalan Raya) to Danie in North Sumatra The site has various

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Cover photograph: Kantor Stasiun Bumi Kecil (office of a small earth station) of PERUMTEL (Perusahaan Umum Telekomunikasi). This terminal is located near Kuala 03N35 98E20 on the main road (Jalan Raya) to Binjai in North Sumatra. The site has various microwave, shortwave and satellite antennas. Satellite telecommunication is ideal for a country such as Indonesia with a population of 185 million people spread over nearly 14000 islands reaching over more than 5000 km from Southeast Asia to Australia. Three PALAPA satellites are located in geostationary orbits high above Borneo: B1 on orbital position 108E00, B2 on 113E00 and B3 on 118E00. A typical uplink frequency is 6.065 GHz with a 36M0F8W emission, the corresponding downlink being on 4.140 GHz. This picture was taken during our 1989 monitoring mission in Indonesia and Singapore. or hereafter invented, including amprocessing and reconding, or

By courtesy of The Klingenfuss Archives

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Service Flace des fattons (Selectività Establica Selection ) Selections of Seneral Anne-

Since the mid-seventies, there has been an extensive shift in the role of shortwave communication for several radio services. It now provides mainly circuits in cases where other means of communication are not available or not economically feasible, e.g. for diplomatic, military, aeronautical and maritime mobile circuits. Digital techniques are bringing about important changes in the exploitation of these circuits, increasing reliability and efficiency, and greatly reducing the need for skilled operators.

An advanced generation of general coverage receivers such as the ICOM R9000, JRC NRD525 etc. is now available. Combined with sophisticated facsimile and teleprinter decoders such as the INFO-TECH M7000, WAVECOM W4010 etc., quasi-professional monitoring of utility stations is now accessible to everyone.

This revolutionary development has been supported by our famous lists and manuals since 1971. Being ourselves the top address for the world's top radio monitors since then, the correspondence with our worldwide reading public ensures the manual in hand to continue to be the standard reference of both professional monitoring services and non-professional radio monitors. Its contents are built exclusively on continuous monitoring of the radio spectrum during 1989. The global coverage of our data bank is secured by regular overseas monitoring missions. After extremely successful operations in Madagascar and Reunion in 1985, in the Azores, Brunei, Malaysia and Sabah in 1986, in Guadeloupe, Martinique, Mauritius, Reunion, Rodrigues and Yemen Arab Republic in 1987, in Malaysia, Sarawak and Singapore in 1988, we now in 1989 spent more than three months at monitoring sites such as Bengkulu 03S24 102E16, Sumatra, Indonesia; Kismaayo 00S25 42E31, Somalia; and Portsmouth 15N34 61W27, Dominica. The results are included in this book, and similar activities from even more exotic sites are scheduled for 1990.

This book has been compiled with the help of a computer controlled data bank and word processor system with self-developed software interfaces - the only reasonable way to handle this amount of information. In addition, it guarantees the shortest time imaginable for the production of this reference book. Contrary to imitative publications, the time between filing the last entry into the data bank system and the mailing of the completed book takes only 10 (ten) days here.

Spurious signals have been proven to exist with at least three commercial receivers of full different circuitry.

In case of doubt, the spelling of place-names follows that used in the TIMES ATLAS OF THE WORLD (see the introduction to chapter 24), in the TIMES ATLAS OF THE OCEANS, and in the CENTRAL INTELLIGENCE AGENCY POLAR REGIONS ATLAS.

The mention of specific companies or products in articles or advertisements does not imply that they are endorsed or recommended by Klingenfuss Publications in preference to others of a similar nature which are not mentioned or advertised.

Although the more progressive national telecommunication authorities have now released the reception of meteorological etc. data for the purpose of technical investigation, readers are reminded that the divulgence of the contents of radio transmissions which are not intended for the general use of the public is a violation of international and most national telecommunication acts.

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Joerg Klingenfuss Hagenloker Str. 14 D/7400 Tuebingen Add to be the best message to the sun Fed. /Rep. Germany

++49 7071 62830

5820.0	FDY	FAF Orleans, F	a CWasaguong Rasu CWasagua G. 207	
5822.0	FDI	FAF Aix, F	D CWOM , MATITION NO METO 0.8171	
5832.6	'RFQP'	FF Jibuti, DJI	ARQ-M2 200 Bd: A: 1737-0425 msg or encrypted tfc after "KKKK"	
1557.0			or "controle de voie" or svc msg	
			to 'RFFA' (QPB)  B: 1935-0251 msg or "controle	
	The second of the second secon	PARAMETERS PROGRESS OF BANKETH ST. C.	de voie" or svc msg to 'RFFA'	
		State or report of companies and tolors of the companies and the c	(QPA, QPB)	
5839.6	FTF 84B.H	11 AFP Paris, F	1700-0500 A nx	
5841.0	FTF 84B.	13 AFP Paris, F	1700-0500 F nx	
5844.0	BLM 21	Chengdu Meteo, CHN	0028+0050 wx, 0944 ry	
5845.0	VNZ	RFDS Port Augusta, SA, AUS	SSB January P. H. P. C.	
5847.5	'RFFG'	FF Strasbourg, F	ARQ-E 96 Bd: 0920 msg to 'RFFA' (IXV)	
5848.0	TUH	ASECNA Abidjan, CTI	1736-0617 ry or msgs (IGA)	
5850.0	OXT	Copenhagen Meteo, DNK	FAX *	
	VJB Mes	RFDS Derby, WA, AUS	A SSBadeM Habbet MIH 0.0AT	
5852.0	HLO	Mobile R, AL, USA	scheduled	
5862.0	PR' POOR I + TR	Beacon Kaliningrad, RU, URS	CW 7 PLILLE 37 3778	
5865.0	VJN	RFDS Cairns, QLD, AUS	SSB	
5867.0	YIL 68	INA Baghdad, IRQ	1300+1400+1600+1700+2100 A nx	
5867.5	'U'O od a	Beacon Murmansk, RU, URS	CCWmos S rivers Cathy	
5868.0	FDY	FAF Orleans, F	TAG. 0 FDC FAF MEEZ, F WO	
5870.0	NAR	USN Key West, FL, USA	STORO MEDITE R. AL WOLS	
5875.0	'RIFMCF'	IN Rome, I	75 Bd: 1730+1905 ry, 2338 clg	
007010	to atti-at	CHILL FAX SOMETANDS	'IIIC', 2345 ry	
5881.0	RMP	SN Kaliningrad, RU, URS	CWB DO COMP BEFORE GWD	
5887.5	IMB 2	Rome Meteo, I	24 h ry or wx	
5890.0	RBV 78	Tashkent Met., UZ, URS	FAX // 3690.0 kHz *	
5900.0	5AF	Tripoli Air, LBY	(hx 2950.0 kHz)	
5903.0	SOF 290	PAP Warsaw, POL	1600 E nx	
5909.0	BMB	Taipei Meteo, TAI	CWE . BETTO 20 MEA BETTO	
5916.5	, Π ,	Beacon Murmansk, RU, URS	CW TA bade tobyH YHOV O STT	
5917.0	OLC 4	CETEKA Prague, TCH	1710-1800 E nx	
Control of the Contro	AOK	USN Rota, E	CM	
5917.5	HUK	Beacon Khabarovsk, SE, URS	elCHing mus years 08 AV9 0. PTT	
5920.0			or CWasson ANDERA YES OLEST	
5922.0	Υ	Beacon Prague, TCH		
5923.0	SNN 299	MFA Warsaw, POL	75 Bd: 0553-1712 ry or mags or mags (5fgs)	
5932.0	'DJR'	Jibuti Air, DJI	0350 ry	
	OFA	Helsinki R, FNL	scheduled; QSX 6259.0 kHz	
		I DESCRIPTION TO THE PARTY OF T	The ROAD STORY STORY STORY	
1024.0				
5950.0	- 6200.0	BROADCASTING		
			SECONAL PROPERTY OF TAXONS SEED TO SEE	
6200.0	- 6525.0	MARITIME MOBILE < 500A	500B 520 520B 522 >	
6200.0		ship stations, ch 601	SSB QSX 6506.4 kHz	
6203.1		ship stations, ch 602	SSB QSX 6509.5 kHz	
6204.0	ni e ter to	Libreville Port R, GAB	I SSBLIDS avoned AZ 791	
6206.2		ship stations, ch 603	SSB QSX 6512.6 kHz	
0200.2	OED	DDS6 Vienna R, AUT	Danishman F TAN TOWN OLICES	
4200 T	020	ship stations, ch 604	SSB QSX 6515.7 kHz	
6209.3		Port of Spain R, TRD	SSB WSX OJIJ. / KHZ	
6210.4			SSB QSX 6518.8 kHz	
6212.4	HOL	ship stations, ch 605	GOD GOY GOLO! O KUZ	
/ D.F. A	MGK	St. Louis R, MO, USA	DESCRIPTION OF THE PROPERTY OF	
6215.0	A second or residence to	supplementary worldwide	DESCRIPTION OF THE PROPERTY OF STREET	
7 54 3 14		calling/distress/safety f.		

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                   ship stations, ch 606
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                                                N. B DEDELUS
                  coast and ship stations
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6221.6
                                            Hartenath R. Will
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                   Beacon Murmansk, RU, URS
        .n.
6244.5
                                             100 Bds 24 h clg '75 RQA'
                   SN Madrid, E
        '78 IJU'
6251.0
                                             QSX 6494.5 kHz
                   ship stations, series 1
6256.5
                                                                         8.1250
                                             QSX 6495.0 kHz
                   ship stations, series 2
6257.0
                                             QSX 6495.5 kHz
                   ship stations, series 3
6257.5
                                             QSX 6496.0 kHz
                   ship stations, series 4
6258.0
                                             Q8X 6496.5 kHz
                   ship stations, series 5
6258.5
                                             QSX 6497.0 kHz
                   ship stations, series 6
6259.0
                                             QSX 5932.0 kHz (OFA)
                   ship stations
                                             QSX 6497.5 kHz
                                                                  HTG
                   ship stations, series 7
6259.5
                                             QSX 6498.0 kHz
                   ship stations, series 8
6260.0
                                             QSX 6498.5 kHz
                   ship stations, series 9
6260.5
                                             QSX 6499.0
                                                        kHz
                   ship stations, series 10
6261.0
                   ship stations, series 11
                                             QSX 6499.5 kHz
6261.5
                                             QSX 6500.0 kHz
                   ship stations, series 12
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                                             QSX 6500.5 kHz
                   ship stations, series 13
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                   ship stations, series 14
                                             QSX 6501.0 kHz
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                                             QSX 6501.5 kHz
                   ship stations, series 15
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                                             QSX 6502.0 kHz
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                   ship stations, series 18
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                   ship stations, series 19
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                   ship stations, series 20
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                   ship stations, series 21
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                   ship stations, series 22
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                   ship stations, non-paired
6269.0
                   ship stations, non-paired
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                   ship stations calling, ch 1
6270.3
                   ship stations calling, ch 2 CW
6270.9
                   ship stations calling, ch 3 CW
6271.5
                   ship stations calling, ch 4 CW
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                   ship stations calling, ch 5
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                   ship stations calling, ch 8
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                   ship stations calling, ch 9
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                   ship stations calling, ch 12 CW
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Guide to Utility Stations - Eighth Edition December 1989 including Guide to Radioteletype Stations - Sixteenth Edition

- 17740 frequencies
- 3285 call signs
- FAX press and meteo schedules
- RTTY press and meteo schedules
- Abbreviations, codes, frequency allocations and radio regulations
- 5854 changes since the previous edition

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and Publisher

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