

EUROPEAN COMMON PROPOSAL

Proposal submitted by the following administrations

[.....]

Agenda Item 1.13 - taking into account Resolutions 729 (WRC-97), 351 (WRC-03) and 544 (WRC-03), to review the allocations to all services in the HF bands between 4 MHz and 10 MHz, excluding those allocations to services in the frequency range 7000-7200 kHz and those bands whose allotment plans are in Appendices 25, 26 and 27 and whose channeling arrangements are in Appendix 17, taking account of the impact of new modulation techniques, adaptive control techniques and the spectrum requirements for HF broadcasting;

Introduction

This ECP addresses only the Resolution 351.

It is proposed to modify the part A of the Appendix 17 in order to reduce the actual frequencies for NBDP to the GMDSS requirement (see Appendix 15), to release the rest of the majority of the frequencies for the possible use for data transmission using digital technology (e.g. see Recommendation ITU-R M [HF DATA]) in the maritime mobile service, including the bands for Morse frequencies.

In part B changes are proposed accordingly to part A. The section dealing with Morse frequencies are candidates for suppression due to the new utilisation proposed above. The spectrum remain available for the maritime mobile service.

In part B section I Radiotelephony, it is proposed to add a note authorizing the Administrations to notify assignments to stations in the maritime mobile service other than those using radiotelephony.

The proposals for this ECP are fully in line with the CPM text method C for agenda item 1.13.

**Frequencies and channelling arrangements in the
high-frequency bands for the maritime mobile service**

(See Article 52)

MOD **EUR/1.13/Res.351/1**

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PART A – Table of subdivided bands (WRC-07)

Table of frequencies (kHz) to be used in the band between 4 000 kHz and 27 500 kHz
allocated exclusively to the maritime mobile service

Band (MHz)	4	6	8	12	16	18/19	22	25/26
Limits (kHz)	4 063	6 200	8 195	12 230	16 360	18 780	22 000	25 070
Frequencies assignable to ship stations for oceanographic data transmission <i>c)</i>	4 063.3 to 4 064.8 <i>6 f.</i> <i>0.3 kHz</i>							
Limits (kHz)	4 065	6 200	8 195	12 230	16 360	18 780	22 000	25 070
Frequencies assignable to ship stations for telephony, duplex operation <i>a) i) p)</i>	4 066.4 to 4 144.4 <i>27 f.</i> <i>3 kHz</i>	6 201.4 to 6 222.4 <i>8 f.</i> <i>3 kHz</i>	8 196.4 to 8 292.4 <i>33 f.</i> <i>3 kHz</i>	12 231.4 to 12 351.4 <i>41 f.</i> <i>3 kHz</i>	16 361.4 to 16 526.4 <i>56 f.</i> <i>3 kHz</i>	18 781.4 to 18 823.4 <i>15 f.</i> <i>3 kHz</i>	22 001.4 to 22 157.4 <i>53 f.</i> <i>3 kHz</i>	25 071.4 to 25 098.4 <i>10 f.</i> <i>3 kHz</i>
Limits (kHz)	4 146	6 224	8 294	12 353	16 528	18 825	22 159	25 100

Table of frequencies (kHz) to be used in the band between 4 000 kHz and 27 500 kHz allocated exclusively to the maritime mobile service (continued)

Band (MHz)	4	6	8	12	16	18/19	22	25/26
Limits (kHz)	4 146	6 224	8 294	12 353	16 528	18 825	22 159	25 100
Frequencies assignable to ship stations and coast stations for telephony, simplex operation <i>a) p)</i>	4 147.4 to 4 150.4 <i>2 f.</i> 3 kHz	6 225.4 to 6 231.4 <i>3 f.</i> 3 kHz	8 295.4 to 8 298.4 <i>2 f.</i> 3 kHz	12 354.4 to 12 366.4 <i>5 f.</i> 3 kHz	16 529.4 to 16 547.4 <i>7 f.</i> 3 kHz	18 826.4 to 18 844.4 <i>7 f.</i> 3 kHz	22 160.4 to 22 178.4 <i>7 f.</i> 3 kHz	25 101.4 to 25 119.4 <i>7 f.</i> 3 kHz
Limits (kHz)	4 152	6 233	8 300	12 368	16 549	18 846	22 180	25 121
Frequencies assignable to ship stations for wide-band telegraphy, facsimile and special transmission systems <i>p)</i>	4 154 to 4 170 <i>5 f.</i> 4 kHz	6 235 to 6 259 <i>7 f.</i> 4 kHz	8 302 to 8 338 <i>10 f.</i> 4 kHz	12 370 to 12 418 <i>13 f.</i> 4 kHz	16 551 to 16 615 <i>17 f.</i> 4 kHz	18 848 to 18 868 <i>6 f.</i> 4 kHz	22 182 to 22 238 <i>15 f.</i> 4 kHz	25 123 to 25 159 <i>10 f.</i> 4 kHz
Limits (kHz)	4 172	6 261	8 340	12 420	16 617	18 870	22 240	25 161.25
Frequencies assignable to ship stations for oceanographic data transmission <i>c)</i>		6 261.3 to 6 262.5 <i>5 f.</i> 0.3 kHz	8 340.3 to 8 341.5 <i>5 f.</i> 0.3 kHz	12 420.3 to 12 421.5 <i>5 f.</i> 0.3 kHz	16 617.3 to 16 618.5 <i>5 f.</i> 0.3 kHz		22 240.3 to 22 241.5 <i>5 f.</i> 0.3 kHz	
Limits (kHz)	4 172	6 262	8 341.75	12 421.75	16 618.75	18 870	22 241.75	25 161.25
Frequencies assignable to ship stations for wide-band telegraphy, facsimile and special transmission systems <i>p)</i>								
Limits (kHz)	4 176	6 266	8 341.75	12 421.75	16 618.75	18 870	22 241.75	25 161.25
Frequencies (paired) assignable to ship stations for narrow-band direct-printing (NBDP) telegraphy and data transmission systems at speeds not exceeding 100 Bd for FSK and 200 Bd for PSK <i>d) j)</i>	4 176.5 to 4 179 <i>5 f.</i> 0.5 kHz	6 266.5 to 6 270 <i>7 f.</i> 0.5 kHz						
Limits (kHz)	4 179.25	6 270.25	8 341.75	12 421.75	16 618.75	18 870	22 241.75	25 161.25
Frequencies assignable to ship stations for data transmission <i>m) p)</i>								
Limits (kHz)	4 186.75	6 284.75	8 341.75	12 421.75	16 618.75	18 870	22 241.75	25 161.25

Table of frequencies (kHz) to be used in the band between 4 000 kHz and 27 500 kHz allocated exclusively to the maritime mobile service (continued)

Band (MHz)	4	6	8	12	16	18/19	22	25/26
Limits (kHz)	4 186.75	6 284.75	8 341.75	12 421.75	16 618.75	18 870	22 241.75	25 161.25

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Table of frequencies (kHz) to be used in the band between 4 000 kHz and 27 500 kHz allocated exclusively to the maritime mobile service (continued)

Band (MHz)	4	6	8	12	16	18/19	22	25/26
Limits (kHz)	4 202.25	6 300.25	8 381.25	12 476.75	16 683.25	18 870	22 284.25	25 172.75
Frequencies assignable to ship stations for data transmission m) p)								
Limits (kHz)	4 202.25	6 300.25	8 396.25	12 516.75	16 693.25	18 892.75	22 351.75	25 192.75
Frequencies (paired) assignable to ship stations for NBDP telegraphy and data transmission systems at speeds not exceeding 100 bauds for FSK and 200 bauds for PSK d) l)				12 517 to 12 521.5 10 f. 0.5 kHz	16 693.5 to 16 698 10 f. 0.5 kHz			
Limits (kHz)	4 202.25	6 300.25	8 396.25	12 522	16 698.5	18 892.75	22 351.75	25 192.75
Frequencies assignable to ship stations for data transmission m) p)								
Limits (kHz)	4 202.25	6 300.25	8 396.25	12 559.75	16 784.75	18 892.75	22 351.75	25 192.75
Frequencies (non paired) assignable to ship stations for data transmission systems m) p)								
Limits (kHz)	4 207.25	6 311.75	8 414.25	12 576.75	16 804.25	18 898.25	22 374.25	25 208.25
Frequencies assignable to ship stations for digital selective calling k) l)	4 207.5 to 4 209 4 f. 0.5 kHz	6 312 to 6 313.5 4 f. 0.5 kHz	8 414.5 to 8 416 4 f. 0.5 kHz	12 577 to 12 578.5 4 f. 0.5 kHz	16 804.5 to 16 806 4 f. 0.5 kHz	18 898.5 to 18 899.5 3 f. 0.5 kHz	22 374.5 to 22 375.5 3 f. 0.5 kHz	25 208.5 to 25 209.5 3 f. 0.5 kHz
Limits (kHz)	4 209.25	6 313.75	8 416.25	12 578.75	16 806.25	18 899.75	22 375.75	25 210
Limits (kHz)	4 209.25	6 313.75	8 416.25	12 578.75	16 806.25	19 680.25	22 375.75	26 100.25
Frequencies assignable to coast stations for data transmission m) n) o) p)								
Limits (kHz)	4 213.75	6 317.25	8 416.25	12 619.25	16 816.75	19 703.25	22 443.75	26 120.75

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Table of frequencies (kHz) to be used in the band between 4 000 kHz and 27 500 kHz allocated exclusively to the maritime mobile service (End)

Band (MHz)	4	6	8	12	16	18/19	22	25/26
Limits (kHz)	4 213.75	6 317.25	8 416.25	12 619.25	16 816.75	19 703.25	22 443.75	26 120.75
Frequencies (paired)	4 214	6 317.5	8 416.5	12 619.5	16 817			

assignable to coast stations for NBDP and data transmission systems, at speeds not exceeding 100 Bd for FSK and 200 Bd for PSK <i>d) n) o) v</i>	to 4 216.5 <i>7.f.</i> 0.5 kHz	to 6 321 <i>9.f.</i> 0.5 kHz	to 8 421 <i>10.f.</i> 0.5 kHz	to 12 623.5 <i>10.f.</i> 0.5 kHz	to 16 821 <i>10.f.</i> 0.5 kHz				Deleted: 9
Limits (kHz)	4 216.75	6 321.25	8 421.25	12 623.75	16 821.25	19 703.25	22 443.75	26 120.75	Deleted: 30.5
Frequencies assignable to coast stations for data transmission <i>m) p)</i>									Deleted: 36
Limits (kHz)	4 219.25	6 330.75	8 436.25	12 656.75	16 902.75	19 703.25	22 443.75	26 120.75	Deleted: 56
Frequencies assignable to coast stations for digital selective calling <i>l)</i>	4 219.5 to 4 220.5 <i>3.f.</i> 0.5 kHz	6 331 to 6 332 <i>3.f.</i> 0.5 kHz	8 436.5 to 8 437.5 <i>3.f.</i> 0.5 kHz	12 657 to 12 658 <i>3.f.</i> 0.5 kHz	16 903 to 16 904 <i>3.f.</i> 0.5 kHz	19 703.5 to 19 704.5 <i>3.f.</i> 0.5 kHz	22 444 to 22 445 <i>3.f.</i> 0.5 kHz	26 121 to 26 122 <i>3.f.</i> 0.5 kHz	Deleted: 902.5
Limits (kHz)	4 221	6 332.5	8 438	12 658.5	16 904.5	19 705	22 445.5	26 122.5	Deleted: 20
Frequencies assignable to coast stations for wide-band, facsimile, special and data transmission systems and direct-printing telegraphy systems <i>m) p)</i>									Deleted: 34
Limits (kHz)	4 351	6 501	8 707	13 077	17 242	19 755	22 696	26 145	Deleted: 4
Frequencies assignable to coast stations for telephony, duplex operation <i>a) p)</i>	4 352.4 to 4 436.4 <i>29.f.</i> 3 kHz	6 502.4 to 6 523.4 <i>8.f.</i> 3 kHz	8 708.4 to 8 813.4 <i>36.f.</i> 3 kHz	13 078.4 to 13 198.4 <i>41.f.</i> 3 kHz	17 243.4 to 17 408.4 <i>56.f.</i> 3 kHz	19 756.4 to 19 798.4 <i>15.f.</i> 3 kHz	22 697.4 to 22 853.4 <i>53.f.</i> 3 kHz	26 146.4 to 26 173.4 <i>10.f.</i> 3 kHz	Deleted: 156
Limits (kHz)	4 438	6 525	8 815	13 200	17 410	19 800	22 855	26 175	Deleted: 193
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NOC EUR/1.13/ Res.351/2

Note a)

SUP EUR/1.13/ Res.351/3

Note b)

NOC EUR/1.13/ Res.351/4

c) and d).

SUP EUR/1.13/ Res.351/5

Note e)

SUP EUR/1.13/ Res.351/6

Note f)

SUP EUR/1.13/ Res.351/7

Note g)

NOC EUR/1.13/ Res.351/8

Note h) to l).

MOD EUR/1.13/ Res.351/9

Note *m*) Frequencies from these frequency bands may also be used for A1A or A1B Morse telegraphy subject to not claiming protection from other stations in the maritime mobile service using data transmissions.

NOC EUR/1.13/ Res.351/10

Note *n*) and *o*)

MOD EUR/1.13/ Res.351/11

Note *p*) These sub-bands, except the frequencies referred to in Notes *i*), *j*), *n*) and *o*), could be used for digital technologies for maritime mobile service (e.g. as described in the REC ITU-R [M- HF DATA]).

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Deleted: the initial testing and the possible future introduction within the maritime mobile service of new digital technologies. Stations using these sub-bands for this purpose shall not cause harmful interference to, and shall not claim protection from, other stations operating in accordance with Article 5.

PART B – Channelling arrangements

Section I – Radiotelephony

ADD EUR/1.13/ Res.351/12

6 *d*) The channelling arrangement specified in the Sub-Sections A and B does not prejudice the rights of administrations to establish, and to notify assignments to stations in the maritime mobile service other than those using radiotelephony, provided that:

- the occupied bandwidth does not exceed 2 800 Hz and is situated wholly within one frequency channel. (WRC-07)

Reason: this will allowed the use of digital technology by the Administrations within the maritime radiotelephone for coast and ship stations. Consequential changes might be needed in relevant parts of the Radio Regulations

Section II – Narrow-band direct-printing telegraphy (paired frequencies)

MOD

EUR/1.13/ Res.351/13

Table of frequencies for two-frequency operation by coast stations (kHz)

Channel No.	4 MHz band ¹		6 MHz band ³		8 MHz band ⁴	
	Transmit	Receive	Transmit	Receive	Transmit	Receive
1					8376.5 ²	8376.5 ²
2					8417	8377
3					8417.5	8377.5
4					8418	8378
5					8418.5	8378.5
6					8419	8379
7	4214	4176	6317.5	6266	8419.5	8379.5
8	4214.5	4176.5	6318	6266.5	8420	8380
9	4215	4177	6318.5	6267	8420.5	8380.5
10			6319	6267.5	8421	8381
11	4177.5 ²	4177.5 ²	6268 ²	6268 ²		
12	4215.5	4178	6319.5	6268.5		
13	4216	4178.5	6320	6269		
14	4216.5	4179	6320.5	6269.5		
15			6321	6270		
16						
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¹ Ship stations may use the coast station receiving frequencies for transmitting A1A or A1B Morse telegraphy (working), with the exception of channel No. 11 (see Appendix 15).

² For the conditions of use of this frequency, see Article 31.

³ Ship stations may use the coast station receiving frequencies of channel Nos. 25 up to and including 34 for transmitting A1A or A1B Morse telegraphy (working).

⁴ Ship stations may use the coast station receiving frequencies of channel Nos. 29 up to and including 40 for transmitting A1A or A1B Morse telegraphy (working).

Table of frequencies for two-frequency operation by coast stations (kHz)

Channel No.	12 MHz band ⁵		16 MHz band ⁶			
	Transmit	Receive	Transmit	Receive		
1						
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7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21			16 817	16 693.5		
22			16 817.5	16 694		
23			16 818	16 694.5		
24			16 695 ²	16 695 ²		
25			16 818.5	16 695.5		
26			16 819	16 696		
27			16 819.5	16 696.5		
28			16 820	16 697		
29			16 820.5	16 697.5		
30			16 821	16 698		
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⁵ Ship stations may use the coast station receiving frequencies of channel Nos. 58 up to and including 156 for transmitting A1A or A1B Morse telegraphy (working), with the exception of channel No. 87 (see Appendix 15).

⁶ Ship stations may use the coast station receiving frequencies of channel Nos. 71 up to and including 193 for transmitting A1A or A1B Morse telegraphy (working).

Table of frequencies for two-frequency operation by coast stations (kHz)

Channel No.	12 MHz band ⁵ (cont.)			
	Transmit	Receive		
46				
47				
48				
49				
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52				
53				
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75				
76				
77				
78				
79				
80				
81	12 619.5	12 517		
82	12 620	12 517.5		
83	12 620.5	12 518		
84	12 621	12 518.5		
85	12 621.5	12 519		
86	12 622	12 519.5		
87	12 520 ²	12 520 ²		
88	12 622.5	12 520.5		
89	12 623	12 521		
90	12 623.5	12 521.5		
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94				
95				

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Channel ... [127]

Deleted: Table of frequencies for two-frequency operation by coast stations (kHz)[¶]
Channel ... [128]

SUP **EUR/1.13/ Res.351/14**

Section III – Narrow-band direct-printing telegraphy (non-paired frequencies)

SUP **EUR/1.13/ Res.351/15**

Section IV – Morse telegraphy (calling)

SUP **EUR/1.13/ Res.351/16**

Section V – Morse telegraphy (working)

Page 3: [1] Formatted **ADM-LOCAL** **08-06-2006 15:46:00**

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Page 3: [2] Formatted **ADM-LOCAL** **08-06-2006 15:46:00**

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Calling frequencies assignable to ship stations for A1A or A1B Morse telegraphy

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Page 3: [11] Formatted **ADM-LOCAL** **08-06-2006 15:46:00**

Table_title, Space Before: 12 pt

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Position: Horizontal: Left, Relative to: Column, Vertical: In line, Relative to: Margin,
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Page 4: [13] Deleted	ADM-LOCAL	08-06-2006 16:31:00
	6 281 to 6 284.5	
	<i>8f.</i> <i>0.5 kHz</i>	
Page 4: [14] Formatted	ADM-LOCAL	08-06-2006 15:46:00
Position: Horizontal: Left, Relative to: Column, Vertical: In line, Relative to: Margin, Horizontal: 0 pt, Wrap Around		
Page 4: [15] Deleted	ADM-LOCAL	08-06-2006 16:31:00
	4 186.75	
Page 4: [15] Deleted	ADM-LOCAL	08-06-2006 16:31:00
	6 284.75	
Page 4: [15] Deleted	ADM-LOCAL	08-06-2006 16:31:00
	8 341.75	
Page 4: [15] Deleted	ADM-LOCAL	08-06-2006 16:31:00
	12 421.75	
Page 4: [15] Deleted	ADM-LOCAL	08-06-2006 16:31:00
	16 618.75	
Page 4: [15] Deleted	ADM-LOCAL	08-06-2006 16:31:00
	18 870	
Page 4: [15] Deleted	ADM-LOCAL	08-06-2006 16:31:00
	22 241.75	
Page 4: [15] Deleted	ADM-LOCAL	08-06-2006 16:31:00
	25 161.25	
Page 4: [16] Deleted	ADM-LOCAL	08-06-2006 16:33:00
	4	
Page 4: [16] Deleted	ADM-LOCAL	08-06-2006 16:33:00
	6	
Page 4: [16] Deleted	ADM-LOCAL	08-06-2006 16:33:00
	8	
Page 4: [16] Deleted	ADM-LOCAL	08-06-2006 16:33:00
	12	
Page 4: [16] Deleted	ADM-LOCAL	08-06-2006 16:33:00

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18/19		

Page 4: [16] Deleted	ADM-LOCAL	08-06-2006 16:33:00
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25/26		

Page 4: [17] Formatted	ADM-LOCAL	08-06-2006 16:32:00
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Page 4: [18] Formatted	ADM-LOCAL	08-06-2006 16:32:00
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Page 4: [19] Deleted	ADM-LOCAL	08-06-2006 16:33:00
4 186.75		

Page 4: [19] Deleted	ADM-LOCAL	08-06-2006 16:33:00
6 284.75		

Page 4: [19] Deleted	ADM-LOCAL	08-06-2006 16:33:00
8 341.75		

Page 4: [19] Deleted	ADM-LOCAL	08-06-2006 16:33:00
12 421.75		

Page 4: [19] Deleted	ADM-LOCAL	08-06-2006 16:33:00
16 618.75		

Page 4: [19] Deleted	ADM-LOCAL	08-06-2006 16:33:00
18 870		

Page 4: [19] Deleted	ADM-LOCAL	08-06-2006 16:33:00
22 241.75		

Page 4: [19] Deleted	ADM-LOCAL	08-06-2006 16:33:00
25 161.25		

Page 4: [20] Deleted	ADM-LOCAL	08-06-2006 16:34:00
Working frequencies assignable to ship stations for A1A or A1B Morse telegraphy <i>e)/f)</i>		

Page 4: [21] Formatted	ADM-LOCAL	08-06-2006 16:32:00
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Page 4: [22] Deleted	ADM-LOCAL	12-10-2006 23:03:00
	4 187 to 4 202	
Page 4: [22] Deleted	ADM-LOCAL	08-06-2006 16:35:00
	<i>31 f.</i> <i>0.5 kHz</i>	
Page 4: [22] Deleted	ADM-LOCAL	12-10-2006 23:03:00
	6 285 to 6 300	
Page 4: [23] Deleted	ADM-LOCAL	12-10-2006 23:03:00
	8 342 to 8 365.5	
Page 4: [23] Deleted	ADM-LOCAL	12-10-2006 23:04:00
	<i>48 f.</i> <i>0.5 kHz</i>	
Page 4: [23] Deleted	ADM-LOCAL	12-10-2006 23:03:00
	12 422 to 12 476.5	
Page 4: [24] Deleted	ADM-LOCAL	12-10-2006 23:03:00
	16 619 to 16 683	
Page 4: [24] Deleted	ADM-LOCAL	12-10-2006 23:04:00
	<i>129 f.</i> <i>0.5 kHz</i>	
Page 4: [24] Deleted	ADM-LOCAL	12-10-2006 23:03:00
	22 242 to 22 279	
Page 4: [25] Deleted	ADM-LOCAL	12-10-2006 23:03:00
	25 161.5 to 25 171	
Page 4: [25] Deleted	ADM-LOCAL	12-10-2006 23:04:00
	<i>20 f.</i> <i>0.5 kHz</i>	
Page 4: [26] Deleted	ADM-LOCAL	08-06-2006 16:35:00
	<i>31 f.</i> <i>0.5 kHz</i>	

Page 4: [27] Deleted	ADM-LOCAL	12-10-2006 23:04:00
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*110 f.
0.5 kHz*

Page 4: [28] Deleted	ADM-LOCAL	12-10-2006 23:04:00
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*75 f.
0.5 kHz*

Page 4: [29] Formatted	ADM-LOCAL	08-06-2006 16:32:00
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Page 4: [30] Deleted	ADM-LOCAL	13-10-2006 9:12:00
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4 202.25

Page 4: [30] Deleted	ADM-LOCAL	13-10-2006 9:12:00
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6 300.25

Page 4: [30] Deleted	ADM-LOCAL	13-10-2006 9:12:00
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8 365.75

Page 4: [30] Deleted	ADM-LOCAL	13-10-2006 9:13:00
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12 476.75

Page 4: [30] Deleted	ADM-LOCAL	13-10-2006 9:13:00
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16 683.25

Page 4: [30] Deleted	ADM-LOCAL	13-10-2006 9:13:00
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18 870

Page 4: [30] Deleted	ADM-LOCAL	13-10-2006 9:13:00
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22 279.25

Page 4: [30] Deleted	ADM-LOCAL	13-10-2006 9:13:00
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25 171.25

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Calling frequencies assignable to ship stations for A1A or A1B Morse telegraphy

Page 4: [32] Formatted	ADM-LOCAL	08-06-2006 16:32:00
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Page 4: [33] Deleted	ADM-LOCAL	08-06-2006 16:42:00
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g)

Page 4: [33] Deleted	ADM-LOCAL	08-06-2006 16:42:00
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p)

Page 4: [34] Formatted	ADM-LOCAL	08-06-2006 16:32:00
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Horizontal: 0 pt, Wrap Around

Page 4: [35] Deleted	ADM-LOCAL	12-10-2006 23:08:00
	4 202.25	
Page 4: [35] Deleted	ADM-LOCAL	12-10-2006 23:08:00
	6 300.25	
Page 4: [35] Deleted	ADM-LOCAL	12-10-2006 23:08:00
	8 370.75	
Page 4: [35] Deleted	ADM-LOCAL	12-10-2006 23:08:00
	12 476.75	
Page 4: [35] Deleted	ADM-LOCAL	12-10-2006 23:08:00
	16 683.25	
Page 4: [35] Deleted	ADM-LOCAL	12-10-2006 23:08:00
	18 870	
Page 4: [35] Deleted	ADM-LOCAL	12-10-2006 23:08:00
	22 284.25	
Page 4: [35] Deleted	ADM-LOCAL	12-10-2006 23:08:00
	25 172.75	

Page 4: [36] Deleted	ADM-LOCAL	08-06-2006 16:45:00
Working frequencies assignable to ship stations for A1A or A1B Morse telegraphy <i>e) f) p)</i>		

Page 4: [37] Formatted	ADM-LOCAL	08-06-2006 16:32:00
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Position: Horizontal: Left, Relative to: Column, Vertical: In line, Relative to: Margin,
Horizontal: 0 pt, Wrap Around

Page 4: [38] Deleted	ADM-LOCAL	12-10-2006 23:12:00
	8 371 to 8 376	
	<i>11 f.</i> <i>0.5 kHz</i>	

Page 4: [39] Formatted	ADM-LOCAL	08-06-2006 16:32:00
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Horizontal: 0 pt, Wrap Around

Page 4: [40] Deleted	ADM-LOCAL	12-10-2006 23:48:00
	12 477 to 12 549.5	
	<i>146 f.</i> <i>0.5 kHz</i>	

Page 4: [40] Deleted	ADM-LOCAL	12-10-2006 23:48:00
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16 683.5
to
16 733.5

101 f.
0.5 kHz

Page 4: [40] Deleted	ADM-LOCAL	12-10-2006 23:48:00
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18 870.5
to
18 892.5

45 f.
0.5 kHz

Page 4: [40] Deleted	ADM-LOCAL	12-10-2006 23:48:00
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22 284.5
to
22 351.5

135 f.
0.5 kHz

Page 4: [40] Deleted	ADM-LOCAL	12-10-2006 23:48:00
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25 173
to
25 192.5

40 f.
0.5 kHz

Page 4: [41] Formatted	ADM-LOCAL	08-06-2006 16:32:00
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Horizontal: 0 pt, Wrap Around

Page 4: [42] Deleted	ADM-LOCAL	12-10-2006 23:28:00
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96

Page 4: [42] Deleted	ADM-LOCAL	12-10-2006 23:27:00
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4

Page 4: [43] Formatted	ADM-LOCAL	08-06-2006 16:32:00
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Horizontal: 0 pt, Wrap Around

Page 5: [44] Deleted	ADM-LOCAL	13-10-2006 0:06:00
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738

Page 5: [44] Deleted	ADM-LOCAL	13-10-2006 0:06:00
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7

Page 5: [45] Formatted	ADM-LOCAL	08-06-2006 16:32:00
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Position: Horizontal: Left, Relative to: Column, Vertical: In line, Relative to: Margin,
Horizontal: 0 pt, Wrap Around

Page 5: [46] Deleted	ADM-LOCAL	13-10-2006 0:06:00
	739	

Page 5: [46] Deleted	ADM-LOCAL	13-10-2006 0:07:00
	784.5	

Page 5: [46] Deleted	ADM-LOCAL	13-10-2006 0:07:00
	92	

Page 5: [47] Formatted	ADM-LOCAL	08-06-2006 16:32:00
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Position: Horizontal: Left, Relative to: Column, Vertical: In line, Relative to: Margin,
Horizontal: 0 pt, Wrap Around

Page 5: [48] Formatted	ADM-LOCAL	08-06-2006 16:32:00
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Position: Horizontal: Left, Relative to: Column, Vertical: In line, Relative to: Margin,
Horizontal: 0 pt, Wrap Around

Page 5: [49] Deleted	ADM-LOCAL	13-10-2006 9:41:00
	4 202.5 to 4 207	

Page 5: [49] Deleted	ADM-LOCAL	08-06-2006 17:16:00
	<i>10 f.</i> <i>0.5 kHz</i>	

Page 5: [49] Deleted	ADM-LOCAL	13-10-2006 9:41:00
	6 300.5 to 6 311.5	

Page 5: [50] Deleted	ADM-LOCAL	13-10-2006 9:41:00
	8 396.5 to 8 414	

Page 5: [50] Deleted	ADM-LOCAL	12-10-2006 21:49:00
	<i>36 f.</i> <i>0.5 kHz</i>	

Page 5: [50] Deleted	ADM-LOCAL	13-10-2006 9:41:00
	12 560 to 12 576.5	

Page 5: [51] Deleted	ADM-LOCAL	13-10-2006 9:41:00
	16 785 to 16 804	

Page 5: [51] Deleted	ADM-LOCAL	12-10-2006 21:49:00
	39 f. 0.5 kHz	
Page 5: [51] Deleted	ADM-LOCAL	13-10-2006 9:41:00
	18 893 to 18 898	
Page 5: [52] Deleted	ADM-LOCAL	13-10-2006 9:42:00
	22 352 to 22 374	
Page 5: [52] Deleted	ADM-LOCAL	12-10-2006 21:49:00
	45 f. 0.5 kHz	
Page 5: [52] Deleted	ADM-LOCAL	13-10-2006 9:42:00
	25 193 to 25 208	
Page 5: [53] Deleted	ADM-LOCAL	08-06-2006 17:16:00
	23 f. 0.5 kHz	
Page 5: [54] Deleted	ADM-LOCAL	12-10-2006 21:49:00
	34 f. 0.5 kHz	
Page 5: [55] Deleted	ADM-LOCAL	12-10-2006 21:49:00
	11 f. 0.5 kHz	
Page 5: [56] Deleted	ADM-LOCAL	12-10-2006 21:49:00
	31 f. 0.5 kHz	
Page 5: [57] Deleted	ADM-LOCAL	08-06-2006 17:14:00
	NBDP telegraphy and	
Page 5: [57] Deleted	ADM-LOCAL	08-06-2006 17:14:00
	at speeds not exceeding 100 Bd for FSK and 200 Bd for PSK and for A1A or A1B Morse telegraphy (working)	
Page 5: [58] Formatted	ADM-LOCAL	13-10-2006 1:03:00
	Font: Times New Roman, 9 pt	
Page 5: [58] Formatted	ADM-LOCAL	13-10-2006 1:24:00
	Font: Times New Roman, 9 pt	
Page 5: [59] Deleted	ADM-LOCAL	13-10-2006 1:25:00
	19 680.5 to	

19 703

46 f.
0.5 kHz

Page 5: [59] Deleted	ADM-LOCAL	13-10-2006 1:25:00
	22 376 to 22 443.5	
	<i>136 f.</i> <i>0.5 kHz</i>	
Page 5: [59] Deleted	ADM-LOCAL	13-10-2006 1:25:00
	26 100.5 to 26 120.5	
	<i>41 f.</i> <i>0.5 kHz</i>	
Page 5: [60] Deleted	ADM-LOCAL	08-06-2006 17:18:00
	09.5	
Page 5: [60] Deleted	ADM-LOCAL	08-06-2006 17:21:00
	4	
Page 5: [60] Deleted	ADM-LOCAL	13-10-2006 1:03:00
	579	
Page 8: [61] Deleted	ADM-LOCAL	13-10-2006 2:05:00
	8 381.5 8 382 8 382.5 8 383 8 383.5	
Page 8: [62] Deleted	ADM-LOCAL	08-06-2006 15:24:00
	4 217.5 4 218 4 218.5 4 219	
Page 8: [63] Deleted	ADM-LOCAL	08-06-2006 15:24:00
	4 180 4 180.5 4 181 4 181.5	
Page 8: [64] Deleted	ADM-LOCAL	09-06-2006 0:08:00
	6 321.5 6 322 6 322.5 6 323 6 323.5	
Page 8: [65] Deleted	ADM-LOCAL	09-06-2006 0:08:00

6 270.5
6 271
6 271.5
6 272
6 272.5

Page 8: [66] Deleted	ADM-LOCAL	13-10-2006 2:05:00
8 424		
8 424.5		
8 425		
8 425.5		
8 426		

Page 8: [67] Deleted	ADM-LOCAL	13-10-2006 2:05:00
8 384		
8 384.5		
8 385		
8 385.5		
8 386		

Page 8: [68] Deleted	ADM-LOCAL	09-06-2006 0:08:00
6 324		
6 324.5		
6 325		
6 325.5		
6 326		

Page 8: [69] Deleted	ADM-LOCAL	09-06-2006 0:08:00
6 273		
6 273.5		
6 274		
6 274.5		
6 275		

Page 8: [70] Deleted	ADM-LOCAL	13-10-2006 2:05:00
8 426.5		
8 427		
8 427.5		
8 428		
8 428.5		

Page 8: [71] Deleted	ADM-LOCAL	13-10-2006 2:05:00
8 386.5		
8 387		
8 387.5		
8 388		
8 388.5		

Page 8: [72] Deleted	ADM-LOCAL	09-06-2006 0:08:00
6 326.5		
6 327		
6 327.5		
6 328		
6 328.5		

Page 8: [73] Deleted	ADM-LOCAL	09-06-2006 0:08:00
6 275.5		
6 281		

6281.5
6282
6282.5

Page 8: [74] Deleted **ADM-LOCAL** **13-10-2006 2:05:00**

8429
8429.5
8430
8430.5
8431

Page 8: [75] Deleted **ADM-LOCAL** **13-10-2006 2:05:00**

8389
8389.5
8390
8390.5
8391

Page 8: [76] Deleted **ADM-LOCAL** **09-06-2006 0:08:00**

6329
6329.5
6330
6330.5

Page 8: [77] Deleted **ADM-LOCAL** **09-06-2006 0:08:00**

6283
6283.5
6284
6284.5

Page 8: [78] Deleted **ADM-LOCAL** **13-10-2006 2:05:00**

8431.5
8432
8432.5
8433
8433.5

Page 8: [79] Deleted **ADM-LOCAL** **13-10-2006 2:05:00**

8391.5
8392
8392.5
8393
8393.5

Page 8: [80] Deleted **ADM-LOCAL** **13-10-2006 2:05:00**

8434
8434.5
8435
8435.5
8436

Page 8: [81] Deleted **ADM-LOCAL** **13-10-2006 2:05:00**

8394
8394.5
8395
8395.5
8396

Page 9: [82] Deleted	ADM-LOCAL	13-10-2006 2:11:00
Transmit		

Page 9: [82] Deleted	ADM-LOCAL	13-10-2006 2:11:00
Receive		

Page 9: [83] Deleted	ADM-LOCAL	13-10-2006 2:06:00
12579.5 12580 12580.5 12581 12581.5		

Page 9: [83] Deleted	ADM-LOCAL	13-10-2006 2:06:00
12477 12477.5 12478 12478.5 12479		

Page 9: [83] Deleted	ADM-LOCAL	13-10-2006 2:06:00
16807 16807.5 16808 16808.5 16809		

Page 9: [83] Deleted	ADM-LOCAL	13-10-2006 2:06:00
16683.5 16684 16684.5 16685 16685.5		

Page 9: [83] Deleted	ADM-LOCAL	13-10-2006 2:06:00
19681 19681.5 19682 19682.5 19683		

Page 9: [83] Deleted	ADM-LOCAL	13-10-2006 2:06:00
18870.5 18871 18871.5 18872 18872.5		

Page 9: [84] Deleted	ADM-LOCAL	13-10-2006 2:06:00
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12582
12582.5
12583
12583.5
12584

Page 9: [84] Deleted **ADM-LOCAL** **13-10-2006 2:06:00**

12479.5
12480
12480.5
12481
12481.5

Page 9: [84] Deleted **ADM-LOCAL** **13-10-2006 2:06:00**

16809.5
16810
16810.5
16811
16811.5

Page 9: [84] Deleted **ADM-LOCAL** **13-10-2006 2:06:00**

16686
16686.5
16687
16687.5
16688

Page 9: [84] Deleted **ADM-LOCAL** **13-10-2006 2:06:00**

19683.5
19684
19684.5
19685
19685.5

Page 9: [84] Deleted **ADM-LOCAL** **13-10-2006 2:06:00**

18873
18873.5
18874
18874.5
18875

Page 9: [85] Deleted **ADM-LOCAL** **13-10-2006 2:06:00**

12584.5
12585
12585.5
12586
12586.5

Page 9: [85] Deleted **ADM-LOCAL** **13-10-2006 2:06:00**

12482
12482.5
12483
12483.5
12484

Page 9: [85] Deleted	ADM-LOCAL	13-10-2006 2:06:00
16812		
16812.5		
16813		
16813.5		
16814		

Page 9: [85] Deleted	ADM-LOCAL	13-10-2006 2:06:00
16688.5		
16689		
16689.5		
16690		
16690.5		

Page 9: [85] Deleted	ADM-LOCAL	13-10-2006 2:06:00
19686		
19686.5		
19687		
19687.5		
19688		

Page 9: [85] Deleted	ADM-LOCAL	13-10-2006 2:06:00
18875.5		
18876		
18876.5		
18877		
18877.5		

Page 9: [86] Deleted	ADM-LOCAL	13-10-2006 2:06:00
12587		
12587.5		
12588		
12588.5		
12589		

Page 9: [86] Deleted	ADM-LOCAL	13-10-2006 2:06:00
12484.5		
12485		
12485.5		
12486		
12486.5		

Page 9: [86] Deleted	ADM-LOCAL	13-10-2006 2:06:00
16814.5		
16815		
16815.5		
16816		
16816.5		

Page 9: [86] Deleted	ADM-LOCAL	13-10-2006 2:06:00
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16691
16691.5
16692
16692.5
16693

Page 9: [86] Deleted **ADM-LOCAL** **13-10-2006 2:06:00**

19688.5
19689
19689.5
19690
19690.5

Page 9: [86] Deleted **ADM-LOCAL** **13-10-2006 2:06:00**

18878
18878.5
18879
18879.5
18880

Page 9: [87] Deleted **ADM-LOCAL** **13-10-2006 2:06:00**

12589.5
12590
12590.5
12591
12591.5

Page 9: [87] Deleted **ADM-LOCAL** **13-10-2006 2:06:00**

12487
12487.5
12488
12488.5
12489

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19 702		
19 702.5		
19 703		

Page 9: [91] Deleted	ADM-LOCAL	13-10-2006 2:06:00
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16 712.5
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12611.5		
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16714.5		
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16715.5		
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12613		
12613.5		
12614		
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12510.5		
12511		
12511.5		
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16717.5
16718

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12615.5
12616
12616.5

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12513
12513.5
12514

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16843.5

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16719.5
16720
16720.5

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12618
12618.5
12619

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12514.5
12515
12515.5
12516
12516.5

Page 10: [115] Deleted ADM-LOCAL 13-10-2006 2:07:00

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16845.5
16846

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16 723

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16 848.5

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16 725.5

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16 850.5
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Page 10: [120] Deleted	ADM-LOCAL	13-10-2006 2:07:00
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16 727.5
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12 625.5
12 626

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16853.5

Page 10: [124] Deleted	ADM-LOCAL	13-10-2006 2:07:00
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16728.5
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16729.5
16730
16730.5

Page 11: [125] Deleted	ADM-LOCAL	13-10-2006 2:11:00
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Table of frequencies for two-frequency operation by coast stations (kHz)

Channel No.	12 MHz band ⁵ (cont.)		16 MHz band ⁶ (cont.)	
	Transmit	Receive	Transmit	Receive
96	12 626.5	12 524.5	16 854	16 731
97	12 627	12 525	16 854.5	16 731.5
98	12 627.5	12 525.5	16 855	16 732
99	12 628	12 526	16 855.5	16 732.5
100	12 628.5	12 526.5	16 856	16 733
101	12 629	12 527	16 856.5	16 733.5
102	12 629.5	12 527.5	16 857	16 739
103	12 630	12 528	16 857.5	16 739.5
104	12 630.5	12 528.5	16 858	16 740
105	12 631	12 529	16 858.5	16 740.5
106	12 631.5	12 529.5	16 859	16 741
107	12 632	12 530	16 859.5	16 741.5
108	12 632.5	12 530.5	16 860	16 742
109	12 633	12 531	16 860.5	16 742.5
110	12 633.5	12 531.5	16 861	16 743
111	12 634	12 532	16 861.5	16 743.5
112	12 634.5	12 532.5	16 862	16 744
113	12 635	12 533	16 862.5	16 744.5
114	12 635.5	12 533.5	16 863	16 745
115	12 636	12 534	16 863.5	16 745.5
116	12 636.5	12 534.5	16 864	16 746
117	12 637	12 535	16 864.5	16 746.5
118	12 637.5	12 535.5	16 865	16 747
119	12 638	12 536	16 865.5	16 747.5
120	12 638.5	12 536.5	16 866	16 748
121	12 639	12 537	16 866.5	16 748.5
122	12 639.5	12 537.5	16 867	16 749
123	12 640	12 538	16 867.5	16 749.5
124	12 640.5	12 538.5	16 868	16 750
125	12 641	12 539	16 868.5	16 750.5
126	12 641.5	12 539.5	16 869	16 751
127	12 642	12 540	16 869.5	16 751.5
128	12 642.5	12 540.5	16 870	16 752
129	12 643	12 541	16 870.5	16 752.5
130	12 643.5	12 541.5	16 871	16 753
131	12 644	12 542	16 871.5	16 753.5
132	12 644.5	12 542.5	16 872	16 754
133	12 645	12 543	16 872.5	16 754.5
134	12 645.5	12 543.5	16 873	16 755
135	12 646	12 544	16 873.5	16 755.5
136	12 646.5	12 544.5	16 874	16 756
137	12 647	12 545	16 874.5	16 756.5
138	12 647.5	12 545.5	16 875	16 757
139	12 648	12 546	16 875.5	16 757.5
140	12 648.5	12 546.5	16 876	16 758
141	12 649	12 547	16 876.5	16 758.5
142	12 649.5	12 547.5	16 877	16 759
143	12 650	12 548	16 877.5	16 759.5
144	12 650.5	12 548.5	16 878	16 760
145	12 651	12 549	16 878.5	16 760.5

Table of frequencies for two-frequency operation by coast stations (kHz)

Channel No.	12 MHz band ⁵ (end)		16 MHz band ⁶ (end)	
	Transmit	Receive	Transmit	Receive
146	12 651.5	12 549.5	16 879	16 761
147	12 652	12 555	16 879.5	16 761.5
148	12 652.5	12 555.5	16 880	16 762
149	12 653	12 556	16 880.5	16 762.5
150	12 653.5	12 556.5	16 881	16 763
151	12 654	12 557	16 881.5	16 763.5
152	12 654.5	12 557.5	16 882	16 764
153	12 655	12 558	16 882.5	16 764.5
154	12 655.5	12 558.5	16 883	16 765
155	12 656	12 559	16 883.5	16 765.5
156	12 656.5	12 559.5	16 884	16 766
157			16 884.5	16 766.5
158			16 885	16 767
159			16 885.5	16 767.5
160			16 886	16 768
161			16 886.5	16 768.5
162			16 887	16 769
163			16 887.5	16 769.5
164			16 888	16 770
165			16 888.5	16 770.5
166			16 889	16 771
167			16 889.5	16 771.5
168			16 890	16 772
169			16 890.5	16 772.5
170			16 891	16 773
171			16 891.5	16 773.5
172			16 892	16 774
173			16 892.5	16 774.5
174			16 893	16 775
175			16 893.5	16 775.5
176			16 894	16 776
177			16 894.5	16 776.5
178			16 895	16 777
179			16 895.5	16 777.5
180			16 896	16 778
181			16 896.5	16 778.5
182			16 897	16 779
183			16 897.5	16 779.5
184			16 898	16 780
185			16 898.5	16 780.5
186			16 899	16 781
187			16 899.5	16 781.5
188			16 900	16 782
189			16 900.5	16 782.5
190			16 901	16 783
191			16 901.5	16 783.5
192			16 902	16 784
193			16 902.5	16 784.5

Table of frequencies for two-frequency operation by coast stations (kHz)

Channel No.	22 MHz band ⁷		25/26 MHz band	
	Transmit	Receive	Transmit	Receive
1	22 376.5	22 284.5	26 101	25 173
2	22 377	22 285	26 101.5	25 173.5
3	22 377.5	22 285.5	26 102	25 174
4	22 378	22 286	26 102.5	25 174.5
5	22 378.5	22 286.5	26 103	25 175
6	22 379	22 287	26 103.5	25 175.5
7	22 379.5	22 287.5	26 104	25 176
8	22 380	22 288	26 104.5	25 176.5
9	22 380.5	22 288.5	26 105	25 177
10	22 381	22 289	26 105.5	25 177.5
11	22 381.5	22 289.5	26 106	25 178
12	22 382	22 290	26 106.5	25 178.5
13	22 382.5	22 290.5	26 107	25 179
14	22 383	22 291	26 107.5	25 179.5
15	22 383.5	22 291.5	26 108	25 180
16	22 384	22 292	26 108.5	25 180.5
17	22 384.5	22 292.5	26 109	25 181
18	22 385	22 293	26 109.5	25 181.5
19	22 385.5	22 293.5	26 110	25 182
20	22 386	22 294	26 110.5	25 182.5
21	22 386.5	22 294.5	26 111	25 183
22	22 387	22 295	26 111.5	25 183.5
23	22 387.5	22 295.5	26 112	25 184
24	22 388	22 296	26 112.5	25 184.5
25	22 388.5	22 296.5	26 113	25 185
26	22 389	22 297	26 113.5	25 185.5
27	22 389.5	22 297.5	26 114	25 186
28	22 390	22 298	26 114.5	25 186.5
29	22 390.5	22 298.5	26 115	25 187
30	22 391	22 299	26 115.5	25 187.5
31	22 391.5	22 299.5	26 116	25 188
32	22 392	22 300	26 116.5	25 188.5
33	22 392.5	22 300.5	26 117	25 189
34	22 393	22 301	26 117.5	25 189.5
35	22 393.5	22 301.5	26 118	25 190
36	22 394	22 302	26 118.5	25 190.5
37	22 394.5	22 302.5	26 119	25 191
38	22 395	22 303	26 119.5	25 191.5
39	22 395.5	22 303.5	26 120	25 192
40	22 396	22 304	26 120.5	25 192.5
41	22 396.5	22 304.5		
42	22 397	22 305		
43	22 397.5	22 305.5		
44	22 398	22 306		
45	22 398.5	22 306.5		
46	22 399	22 307		
47	22 399.5	22 307.5		
48	22 400	22 308		
49	22 400.5	22 308.5		
50	22 401	22 309		

⁷ Ship stations may use the coast station receiving frequencies of channels No. 68 up to and including 135 for transmitting A1A or A1B Morse telegraphy (working).

**Table of frequencies for two-frequency
operation by coast stations (kHz)**

Channel No.	22 MHz band ⁷ (cont.)	
	Transmit	Receive
51	22 401.5	22 309.5
52	22 402	22 310
53	22 402.5	22 310.5
54	22 403	22 311
55	22 403.5	22 311.5
56	22 404	22 312
57	22 404.5	22 312.5
58	22 405	22 313
59	22 405.5	22 313.5
60	22 406	22 314
61	22 406.5	22 314.5
62	22 407	22 315
63	22 407.5	22 315.5
64	22 408	22 316
65	22 408.5	22 316.5
66	22 409	22 317
67	22 409.5	22 317.5
68	22 410	22 318
69	22 410.5	22 318.5
70	22 411	22 319
71	22 411.5	22 319.5
72	22 412	22 320
73	22 412.5	22 320.5
74	22 413	22 321
75	22 413.5	22 321.5
76	22 414	22 322
77	22 414.5	22 322.5
78	22 415	22 323
79	22 415.5	22 323.5
80	22 416	22 324
81	22 416.5	22 324.5
82	22 417	22 325
83	22 417.5	22 325.5
84	22 418	22 326
85	22 418.5	22 326.5
86	22 419	22 327
87	22 419.5	22 327.5
88	22 420	22 328
89	22 420.5	22 328.5
90	22 421	22 329
91	22 421.5	22 329.5
92	22 422	22 330
93	22 422.5	22 330.5
94	22 423	22 331
95	22 423.5	22 331.5
96	22 424	22 332
97	22 424.5	22 332.5
98	22 425	22 333
99	22 425.5	22 333.5
100	22 426	22 334
101	22 426.5	22 334.5
102	22 427	22 335
103	22 427.5	22 335.5
104	22 428	22 336
105	22 428.5	22 336.5

**Table of frequencies for two-frequency
operation by coast stations (kHz)**

Channel No.	22 MHz band ⁷ (end)	
	Transmit	Receive
106	22 429	22 337
107	22 429.5	22 337.5
108	22 430	22 338
109	22 430.5	22 338.5
110	22 431	22 339
111	22 431.5	22 339.5
112	22 432	22 340
113	22 432.5	22 340.5
114	22 433	22 341
115	22 433.5	22 341.5
116	22 434	22 342
117	22 434.5	22 342.5
118	22 435	22 343
119	22 435.5	22 343.5
120	22 436	22 344
121	22 436.5	22 344.5
122	22 437	22 345
123	22 437.5	22 345.5
124	22 438	22 346
125	22 438.5	22 346.5
126	22 439	22 347
127	22 439.5	22 347.5
128	22 440	22 348
129	22 440.5	22 348.5
130	22 441	22 349
131	22 441.5	22 349.5
132	22 442	22 350
133	22 442.5	22 350.5
134	22 443	22 351
135	22 443.5	22 351.5