APPENDIX 17 (Rev.WRC-07)

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

(See Article **52)**

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

*In the Table,* where appropriate[[1]](#footnote-1)1, the assignable frequencies in a given band for each usage are:

– indicated by the lowest and highest frequency, in heavy type, assigned in that band;

– regularly spaced, the number of assignable frequencies ( *f.*) and the spacing in kHz being indicated in italics.

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  *c)* | **4 063.3** to **4 064.8**  *6 f. 0.3 kHz* |  |  |  |  |  |  |  |
| 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  *a) i)* | **4 066.4** to **4 144.4**  *27 f. 3 kHz* | **6 201.4** to **6 222.4**  *8 f. 3 kHz* | **8 196.4** to **8 292.4**  *33 f. 3 kHz* | **12 231.4** to **12 351.4**  *41 f. 3 kHz* | **16 361.4** to **16 526.4**  *56 f. 3 kHz* | **18 781.4** to **18 823.4**  *15 f. 3 kHz* | **22 001.4** to **22 157.4**  *53 f. 3 kHz* | **25 071.4** to **25 098.4**  *10 f. 3 kHz* |
| 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  *a)* | **4 147.4** to **4 150.4**  *2 f. 3 kHz* | **6 225.4** to **6 231.4**  *3 f. 3 kHz* | **8 295.4** to **8 298.4**  *2 f. 3 kHz* | **12 354.4** to **12 366.4**  *5 f. 3 kHz* | **16 529.4** to **16 547.4**  *7 f. 3 kHz* | **18 826.4** to **18 844.4**  *7 f. 3 kHz* | **22 160.4** to **22 178.4**  *7 f. 3 kHz* | **25 101.4** to **25 119.4**  *7 f. 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 | **4 154** to **4 170**  *5 f. 4 kHz* | **6 235** to **6 259**  *7 f. 4 kHz* | **8 302** to **8 338**  *10 f. 4 kHz* | **12 370** to **12 418**  *13 f. 4 kHz* | **16 551** to **16 615**  *17 f. 4 kHz* | **18 848** to **18 868**  *6 f. 4 kHz* | **22 182** to **22 238**  *15 f. 4 kHz* | **25 123** to **25 159**  *10 f. 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  *c)* |  | **6 261.3** to **6 262.5**  *5 f. 0.3 kHz* | **8 340.3** to **8 341.5**  *5 f. 0.3 kHz* | **12 420.3** to **12 421.5**  *5 f. 0.3 kHz* | **16 617.3** to **16 618.5**  *5 f. 0.3 kHz* |  | **22 240.3** to **22 241.5**  *5 f. 0.3 kHz* |  |
| Limits (kHz) | 4 172 | 6 262.75 | 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  *d) j) m) p)* | **4 172.5** to **4 181.5**  *18 f.* *0.5 kHz* | **6 263** to **6 275.5**  *25 f. 0.5 kHz* |  |  |  |  |  |  |
| Limits (kHz) | 4 181.75 | 6 275.75 | 8 341.75 | 12 421.75 | 16 618.75 | 18 870 | 22 241.75 | 25 161.25 |
| Calling frequencies assignable to ship stations for A1A or A1B Morse telegraphy  *g) p)* |  |  |  |  |  |  |  |  |
| Limits (kHz) | 4 186.75 | 6 280.75 | 8 341.75 | 12 421.75 | 16 618.75 | 18 870 | 22 241.75 | 25 161.25 |
| Frequencies (paired) assignable to ship stations for NBDP telegraphy and data transmission systems at speeds not exceeding 100 Bd for FSK and 200 Bd for PSK  *d) m) p)* |  | **6 281**  to **6 284.5**  *8 f. 0.5 kHz* |  |  |  |  |  |  |
| 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 |  |
| Working frequencies assignable to ship stations for A1A or A1B Morse telegraphy  *e) f) p)* | **4 187** to **4 202**  *31 f. 0.5 kHz* | | **6 285** to **6 300**  *31 f. 0.5 kHz* | **8 342** to **8 365.5**  *48 f. 0.5 kHz* | **12 422** to **12 476.5**  *110 f. 0.5 kHz* | **16 619** to **16 683**  *129 f. 0.5 kHz* |  | | **22 242** to **22 279**  *75 f. 0.5 kHz* | | **25 161.5** to **25 171**  *20 f. 0.5 kHz* | (WRC-07) |
| Limits (kHz) | 4 202.25 | 6 300.25 | | 8 365.75 | 12 476.75 | 16 683.25 | 18 870 | | 22 279.25 | | 25 171.25 |  |
| Calling frequencies assignable to ship stations for A1A or A1B Morse telegraphy  *g) p)* |  |  | |  |  |  | |  | |  |  |  |
| Limits (kHz) | 4 202.25 | 6 300.25 | | 8 370.75 | 12 476.75 | 16 683.25 | | 18 870 | | 22 284.25 | 25 172.75 |  |
| Working frequencies assignable to ship stations for A1A or A1B Morse telegraphy  *e) f) p)* |  |  | | **8 371** to **8 376**  *11 f. 0.5 kHz* |  |  | |  | |  |  |  |
| Limits (kHz) | 4 202.25 | 6 300.25 | | 8 376.25 | 12 476.75 | 16 683.25 | | 18 870 | | 22 284.25 | 25 172.75 |  |
| 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) j) m) p)* |  |  | | **8 376.5** to **8 396**  *40 f. 0.5 kHz* | **12 477** to **12 549.5**  *146 f. 0.5 kHz* | **16 683.5** to **16 733.5**  *101 f. 0.5 kHz* | | **18 870.5** to **18 892.5**  *45 f. 0.5 kHz* | | **22 284.5** to **22 351.5**  *135 f. 0.5 kHz* | **25 173** to **25 192.5**  *40 f. 0.5 kHz* |  |
| Limits (kHz) | 4 202.25 | 6 300.25 | | 8 396.25 | 12 549.75 | 16 733.75 | | 18 892.75 | | 22 351.75 | 25 192.75 |  |
| Calling frequencies assignable to ship stations for A1A or A1B Morse telegraphy  *g) p)* |  |  | |  |  |  | |  | |  |  |  |
| Limits (kHz) | 4 202.25 | 6 300.25 | | 8 396.25 | 12 554.75 | 16 738.75 | | 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) m) p)* |  |  | |  | **12 555** to **12 559.5**  *10 f. 0.5 kHz* | **16 739** to **16 784.5**  *92 f. 0.5 kHz* | |  | |  |  |  |
| 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 |  |

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 | 8 396.25 | 12 559.75 | 16 784.75 | 18 892.75 | 22 351.75 | 25 192.75 |
| Frequencies (non paired) assignable to ship stations for NBDP telegraphy and data transmission systems at speeds not exceeding 100 Bd for FSK and 200 Bd for PSK and for A1A or A1B Morse telegraphy (working)  *b) p)* | **4 202.5** to **4 207**  *10 f. 0.5 kHz* | **6 300.5** to **6 311.5**  *23 f. 0.5 kHz* | **8 396.5** to **8 414**  *36 f. 0.5 kHz* | **12 560** to **12 576.5**  *34 f. 0.5 kHz* | **16 785** to **16 804**  *39 f. 0.5 kHz* | **18 893** to **18 898**  *11 f. 0.5 kHz* | **22 352** to **22 374**  *45 f. 0.5 kHz* | **25 193** to **25 208**  *31 f. 0.5 kHz* |
| 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 (paired) assignable to coast stations for NBDP and data transmission systems, at speeds not exceeding 100 Bd for FSK and 200 Bd for PSK  *d) n) o) p)* | **4 209.5** to **4 219**  *20 f. 0.5 kHz* | **6 314** to **6 330.5**  *34 f. 0.5 kHz* | **8 416.5** to **8 436**  *40 f. 0.5 kHz* | **12 579** to **12 656.5**  *156 f. 0.5 kHz* | **16 806.5** to **16 902.5**  *193 f. 0.5 kHz* | **19 680.5** to **19 703**  *46 f. 0.5 kHz* | **22 376** to **22 443.5**  *136 f. 0.5 kHz* | **26 100.5** to **26 120.5**  *41 f. 0.5 kHz* |
| 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 |
| Frequencies assignable to coast stations for digital selective calling  *l)* | **4 219.5** to **4 220.5**  *3 f. 0.5 kHz* | **6 331** to **6 332**  *3 f. 0.5 kHz* | **8 436.5** to **8 437.5**  *3 f. 0.5 kHz* | **12 657** to **12 658**  *3 f. 0.5 kHz* | **16 903** to **16 904**  *3 f. 0.5 kHz* | **19 703.5** to **19 704.5**  *3 f. 0.5 kHz* | **22 444** to **22 445**  *3 f. 0.5 kHz* | **26 121** to **26 122**  *3 f. 0.5 kHz* |
| Limits (kHz) | 4 221 | 6 332.5 | 8 438 | 12 658.5 | 16 904.5 | 19 705 | 22 445.5 | 26 122.5 |
| Frequencies assignable to coast stations for wide‑band and A1A or A1B Morse telegraphy, facsimile, special and data transmission systems and direct-printing telegraphy systems |  |  |  |  |  |  |  |  |
| Limits (kHz) | 4 351 | 6 501 | 8 707 | 13 077 | 17 242 | 19 755 | 22 696 | 26 145 |

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) | 4 351 | 6 501 | 8 707 | 13 077 | 17 242 | 19 755 | 22 696 | 26 145 |
| Frequencies assignable to coast stations for telephony, duplex operation  *a)* | **4 352.4** to **4 436.4**  *29 f. 3 kHz* | **6 502.4** to **6 523.4**  *8 f. 3 kHz* | **8 708.4** to **8 813.4**  *36 f. 3 kHz* | **13 078.4** to **13 198.4**  *41 f. 3 kHz* | **17 243.4** to **17 408.4**  *56 f. 3 kHz* | **19 756.4** to **19 798.4**  *15 f. 3 kHz* | **22 697.4** to **22 853.4**  *53 f. 3 kHz* | **26 146.4** to **26 173.4**  *10 f. 3 kHz* |
| Limits (kHz) | 4 438 | 6 525 | 8 815 | 13 200 | 17 410 | 19 800 | 22 855 | 26 175 |

*a)* See Part B, Section I.

*b)* See Part B, Section III.

*c)* The frequency bands may also be used by buoy stations for oceanographic data transmission and by stations interrogating these buoys.

*d)* See Part B, Section II.

*e)* In the frequency bands to be used by ship stations for A1A Morse telegraphy working at speeds not exceeding 40 Bd, administrations may assign additional frequencies interleaved between the assignable frequencies. Any frequencies so assigned shall be multiples of 100 Hz. Administrations shall ensure a uniform distribution of such assignments within the bands.

*f)* See Part B, Section V.

*g)* See Part B, Section IV.

*h)* (SUP – WRC-07)

*i)* For the use of the carrier frequencies 4 125 kHz, 6 215 kHz, 8 291 kHz, 12 290 kHz and 16 420 kHz in these sub‑bands by ship and coast stations for distress and safety purposes, by single-sideband radiotelephony, see Article **31**.     (WRC-07)

*j)* For the use of the frequencies 4 177.5 kHz, 6 268 kHz, 8 376.5 kHz, 12 520 kHz and 16 695 kHz in these sub-bands by ship and coast stations for distress and safety purposes, by NBDP telegraphy, see Article **31**.

*k)* For the use of the frequencies 4 207.5 kHz, 6 312 kHz, 8 414.5 kHz, 12 577 kHz and 16 804.5 kHz in these sub-bands by ship and coast stations for distress and safety purposes, by digital selective calling, see Article **31**.

*l)* The following paired frequencies (for ship/coast stations) 4 208/4 219.5 kHz, 6 312.5/6 331 kHz, 8 415/ 8 436.5 kHz, 12 577.5/12 657 kHz, 16 805/16 903 kHz, 18 898.5/19 703.5 kHz, 22 374.5/22 444 kHz and 25 208.5/26 121 kHz are the first choice international frequencies for digital selective calling (see Article **54**).

*m)* Frequencies from these frequency bands may also be used for A1A or A1B Morse telegraphy (working) (see Part B, Section II).

*n)* The frequencies 4 210 kHz, 6 314 kHz, 8 416.5 kHz, 12 579 kHz, 16 806.5 kHz, 19 680.5 kHz, 22 376 kHz and 26 100.5 kHz are the exclusive international frequencies for the transmission of maritime safety information (MSI) (see Articles **31** and **33**).

*o)* The frequency 4 209.5 kHz is an exclusive international frequency for the transmission of NAVTEX type information (see Articles **31** and **33**).

*p)* These sub-bands, except the frequencies referred to in Notes *j)*, *n)* and *o)*, may be used for 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     (WRC-07)

Section I – Radiotelephony

1 Radiotelephone channelling arrangements for the frequencies to be used by coast and ship stations in the bands allocated to the maritime mobile service are indicated in the following Sub-Sections:

*Sub-Section A* – Table of single-sideband transmitting frequencies (kHz) for duplex (two-frequency) operation;

*Sub-Section B* – Table of single-sideband transmitting frequencies (kHz) for simplex (single‑frequency) operation and for intership cross-band (two-frequency) operation;

*Sub-Section C-1* – Table of recommended single-sideband transmitting frequencies (kHz) for ship stations in the band 4 000-4 063 kHz shared with the fixed service;

*Sub-Section C-2* – Table of recommended single-sideband transmitting frequencies (kHz) for ship and coast stations in the band 8 100-8 195 kHz shared with the fixed service.

2 The technical characteristics for single-sideband transmitters are specified in Recommendation ITU‑R M.1173.

3 One or more series of frequencies from Sub-Section A (with the exception of those frequencies mentioned in § 5 below) may be assigned to each coast station, which uses these frequencies associated in pairs (see No. **52.226**); each pair consists of a transmitting and a receiving frequency. The series shall be selected with due regard to the areas served and so as to avoid, as far as possible, harmful interference between the services of different coast stations.

4 The frequencies in Sub-Section B are provided for worldwide common use by ships of all categories, according to traffic requirements, for ship transmissions to coast stations and for intership communication. They are also authorized for worldwide common use for transmissions by coast stations (simplex operation) provided the peak envelope power does not exceed 1 kW.

5 The following frequencies in Sub-Section A are allocated for calling purposes:

– Channel No. 421 in the 4 MHz band;

– Channel No. 606 in the 6 MHz band;

– Channel No. 821 in the 8 MHz band;

– Channel No. 1221 in the 12 MHz band;

– Channel No. 1621 in the 16 MHz band;

– Channel No. 1806 in the 18 MHz band;

– Channel No. 2221 in the 22 MHz band;

– Channel No. 2510 in the 25 MHz band.

Calling on the carrier frequencies 12 290 kHz and 16 420 kHz shall be permitted only to and from rescue coordination centres (see No. **30.6.1**), subject to the safeguards of Resolution **352 (WRC‑03)** (see Nos. **52.221A** and **52.222A**).

The remaining frequencies in Sub‑Sections A, B, C‑1 and C‑2 are working frequencies.     (WRC‑03)

5A For the use of the carrier frequencies:

  4 125 kHz (Channel No. 421);  
  6 215 kHz (Channel No. 606);  
  8 291 kHz (Channel No. 833);  
12 290 kHz (Channel No. 1221);  
16 420 kHz (Channel No. 1621);

in Sub-Section A, by coast and ship stations for distress and safety purposes, see Article **31**.   (WRC‑07)

6 *a)* Maritime radiotelephone stations using single-sideband emissions in the bands between 4 000 kHz and 27 500 kHz exclusively allocated to the maritime mobile service shall operate only on the carrier frequencies shown in the Sub-Sections A and B and, in the case of analogue radiotelephony, shall be in conformity with the technical characteristics specified in Recommendation ITU‑R M.1173.

*b)* Ship stations, when using frequencies for single-sideband emissions in the bands 4 000-4 063 kHz and ship and coast stations, when using frequencies for single-sideband emissions in the band 8 100-8 195 kHz should operate on the carrier frequencies indicated in Sub-Sections C‑1 and C‑2 respectively. In the case of analogue radiotelephony technical characteristics of the equipment shall be those specified in Recommendation ITU‑R M.1173.

*c)* Stations, when employing the single-sideband mode for analogue radio­telephony, shall use only class J3E emissions. For digital communications, class J2D emissions shall be used.     (WRC‑03)

7 The channelling plan established in Sub-Section C-2 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 in the band 8 100-8 195 kHz, in conformity with the relevant provisions of these Regulations.

8 (SUP - WRC-03)

Sub-Section A

Table of single-sideband transmitting frequencies (kHz) for duplex  
(two-frequency) operation

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | 4 MHz band | | | |
| Channel No. | Coast stations | | Ship stations | |
|  | Carrier frequency | Assigned frequency | Carrier frequency | Assigned frequency |
| 401 | 4 357 | 4 358.4 | 4 065 | 4 066.4 |
| 402 | 4 360 | 4 361.4 | 4 068 | 4 069.4 |
| 403 | 4 363 | 4 364.4 | 4 071 | 4 072.4 |
| 404 | 4 366 | 4 367.4 | 4 074 | 4 075.4 |
| 405 | 4 369 | 4 370.4 | 4 077 | 4 078.4 |
| 406 | 4 372 | 4 373.4 | 4 080 | 4 081.4 |
| 407 | 4 375 | 4 376.4 | 4 083 | 4 084.4 |
| 408 | 4 378 | 4 379.4 | 4 086 | 4 087.4 |
| 409 | 4 381 | 4 382.4 | 4 089 | 4 090.4 |
| 410 | 4 384 | 4 385.4 | 4 092 | 4 093.4 |
| 411 | 4 387 | 4 388.4 | 4 095 | 4 096.4 |
| 412 | 4 390 | 4 391.4 | 4 098 | 4 099.4 |
| 413 | 4 393 | 4 394.4 | 4 101 | 4 102.4 |
| 414 | 4 396 | 4 397.4 | 4 104 | 4 105.4 |
| 415 | 4 399 | 4 400.4 | 4 107 | 4 108.4 |
| 416 | 4 402 | 4 403.4 | 4 110 | 4 111.4 |
| 417 | 4 405 | 4 406.4 | 4 113 | 4 114.4 |
| 418 | 4 408 | 4 409.4 | 4 116 | 4 117.4 |
| 419 | 4 411 | 4 412.4 | 4 119 | 4 120.4 |
| 420 | 4 414 | 4 415.4 | 4 122 | 4 123.4 |
| 421 | 4 417 \* | 4 418.4 \* | 4 125 \* 4 | 4 126.4 \* |
| 422 | 4 420 | 4 421.4 | 4 128 | 4 129.4 |
| 423 | 4 423 | 4 424.4 | 4 131 | 4 132.4 |
| 424 | 4 426 | 4 427.4 | 4 134 | 4 135.4 |
| 425 | 4 429 | 4 430.4 | 4 137 | 4 138.4 |
| 426 | 4 432 | 4 433.4 | 4 140 | 4 141.4 |
| 427 | 4 435 | 4 436.4 | 4 143 | 4 144.4 |
| 428  1, 3 | 4 351 | 4 352.4 | – | – |
| 429  1, 3 | 4 354 | 4 355.4 | – | – |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | 6 MHz band | | | |
| Channel No. | Coast stations | | Ship stations | |
|  | Carrier frequency | Assigned frequency | Carrier frequency | Assigned frequency |
| 601 | 6 501 | 6 502.4 | 6 200 | 6 201.4 |
| 602 | 6 504 | 6 505.4 | 6 203 | 6 204.4 |
| 603 | 6 507 | 6 508.4 | 6 206 | 6 207.4 |
| 604 | 6 510 | 6 511.4 | 6 209 | 6 210.4 |
| 605 | 6 513 | 6 514.4 | 6 212 | 6 213.4 |
| 606 | 6 516 \* | 6 517.4 \* | 6 215 \* 5 | 6 216.4 \* |
| 607 | 6 519 | 6 520.4 | 6 218 | 6 219.4 |
| 608 | 6 522 | 6 523.4 | 6 221 | 6 222.4 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | 8 MHz band | | | |
| Channel No. | Coast stations | | Ship stations | |
|  | Carrier frequency | Assigned frequency | Carrier frequency | Assigned frequency |
| 801 | 8 719 | 8 720.4 | 8 195 | 8 196.4 |
| 802 | 8 722 | 8 723.4 | 8 198 | 8 199.4 |
| 803 | 8 725 | 8 726.4 | 8 201 | 8 202.4 |
| 804 | 8 728 | 8 729.4 | 8 204 | 8 205.4 |
| 805 | 8 731 | 8 732.4 | 8 207 | 8 208.4 |
| 806 | 8 734 | 8 735.4 | 8 210 | 8 211.4 |
| 807 | 8 737 | 8 738.4 | 8 213 | 8 214.4 |
| 808 | 8 740 | 8 741.4 | 8 216 | 8 217.4 |
| 809 | 8 743 | 8 744.4 | 8 219 | 8 220.4 |
| 810 | 8 746 | 8 747.4 | 8 222 | 8 223.4 |
| 811 | 8 749 | 8 750.4 | 8 225 | 8 226.4 |
| 812 | 8 752 | 8 753.4 | 8 228 | 8 229.4 |
| 813 | 8 755 | 8 756.4 | 8 231 | 8 232.4 |
| 814 | 8 758 | 8 759.4 | 8 234 | 8 235.4 |
| 815 | 8 761 | 8 762.4 | 8 237 | 8 238.4 |
| 816 | 8 764 | 8 765.4 | 8 240 | 8 241.4 |
| 817 | 8 767 | 8 768.4 | 8 243 | 8 244.4 |
| 818 | 8 770 | 8 771.4 | 8 246 | 8 247.4 |
| 819 | 8 773 | 8 774.4 | 8 249 | 8 250.4 |
| 820 | 8 776 | 8 777.4 | 8 252 | 8 253.4 |
| 821 | 8 779 \* | 8 780.4 \* | 8 255 \* | 8 256.4 \* |
| 822 | 8 782 | 8 783.4 | 8 258 | 8 259.4 |
| 823 | 8 785 | 8 786.4 | 8 261 | 8 262.4 |
| 824 | 8 788 | 8 789.4 | 8 264 | 8 265.4 |
| 825 | 8 791 | 8 792.4 | 8 267 | 8 268.4 |
| 826 | 8 794 | 8 795.4 | 8 270 | 8 271.4 |
| 827 | 8 797 | 8 798.4 | 8 273 | 8 274.4 |
| 828 | 8 800 | 8 801.4 | 8 276 | 8 277.4 |
| 829 | 8 803 | 8 804.4 | 8 279 | 8 280.4 |
| 830 | 8 806 | 8 807.4 | 8 282 | 8 283.4 |
| 831 | 8 809 | 8 810.4 | 8 285 | 8 286.4 |
| 832 | 8 812 | 8 813.4 | 8 288 | 8 289.4 |
| 833 | 8 291  7 | 8 292.4 | 8 291  7 | 8 292.4 |
| 834  3, 6 | 8 707 | 8 708.4 | – | – |
| 835  3, 6 | 8 710 | 8 711.4 | – | – |
| 836  3, 6 | 8 713 | 8 714.4 | – | – |
| 837  3, 6 | 8 716 | 8 717.4 | – | – |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | 12 MHz band | | | |
| Channel No. | Coast stations | | Ship stations | |
|  | Carrier frequency | Assigned frequency | Carrier frequency | Assigned frequency |
| 1201 | 13 077 | 13 078.4 | 12 230 | 12 231.4 |
| 1202 | 13 080 | 13 081.4 | 12 233 | 12 234.4 |
| 1203 | 13 083 | 13 084.4 | 12 236 | 12 237.4 |
| 1204 | 13 086 | 13 087.4 | 12 239 | 12 240.4 |
| 1205 | 13 089 | 13 090.4 | 12 242 | 12 243.4 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | 12 MHz band (*end*) | | | |
| Channel No. | Coast stations | | Ship stations | |
|  | Carrier frequency | Assigned frequency | Carrier frequency | Assigned frequency |
| 1206 | 13 092 | 13 093.4 | 12 245 | 12 246.4 |
| 1207 | 13 095 | 13 096.4 | 12 248 | 12 249.4 |
| 1208 | 13 098 | 13 099.4 | 12 251 | 12 252.4 |
| 1209 | 13 101 | 13 102.4 | 12 254 | 12 255.4 |
| 1210 | 13 104 | 13 105.4 | 12 257 | 12 258.4 |
| 1211 | 13 107 | 13 108.4 | 12 260 | 12 261.4 |
| 1212 | 13 110 | 13 111.4 | 12 263 | 12 264.4 |
| 1213 | 13 113 | 13 114.4 | 12 266 | 12 267.4 |
| 1214 | 13 116 | 13 117.4 | 12 269 | 12 270.4 |
| 1215 | 13 119 | 13 120.4 | 12 272 | 12 273.4 |
| 1216 | 13 122 | 13 123.4 | 12 275 | 12 276.4 |
| 1217 | 13 125 | 13 126.4 | 12 278 | 12 279.4 |
| 1218 | 13 128 | 13 129.4 | 12 281 | 12 282.4 |
| 1219 | 13 131 | 13 132.4 | 12 284 | 12 285.4 |
| 1220 | 13 134 | 13 135.4 | 12 287 | 12 288.4 |
| 1221 | 13 137 \* | 13 138.4 \* | 12 290 \* 8 | 12 291.4 \* |
| 1222 | 13 140 | 13 141.4 | 12 293 | 12 294.4 |
| 1223 | 13 143 | 13 144.4 | 12 296 | 12 297.4 |
| 1224 | 13 146 | 13 147.4 | 12 299 | 12 300.4 |
| 1225 | 13 149 | 13 150.4 | 12 302 | 12 303.4 |
| 1226 | 13 152 | 13 153.4 | 12 305 | 12 306.4 |
| 1227 | 13 155 | 13 156.4 | 12 308 | 12 309.4 |
| 1228 | 13 158 | 13 159.4 | 12 311 | 12 312.4 |
| 1229 | 13 161 | 13 162.4 | 12 314 | 12 315.4 |
| 1230 | 13 164 | 13 165.4 | 12 317 | 12 318.4 |
| 1231 | 13 167 | 13 168.4 | 12 320 | 12 321.4 |
| 1232 | 13 170 | 13 171.4 | 12 323 | 12 324.4 |
| 1233 | 13 173 | 13 174.4 | 12 326 | 12 327.4 |
| 1234 | 13 176 | 13 177.4 | 12 329 | 12 330.4 |
| 1235 | 13 179 | 13 180.4 | 12 332 | 12 333.4 |
| 1236 | 13 182 | 13 183.4 | 12 335 | 12 336.4 |
| 1237 | 13 185 | 13 186.4 | 12 338 | 12 339.4 |
| 1238 | 13 188 | 13 189.4 | 12 341 | 12 342.4 |
| 1239 | 13 191 | 13 192.4 | 12 344 | 12 345.4 |
| 1240 | 13 194 | 13 195.4 | 12 347 | 12 348.4 |
| 1241 | 13 197 | 13 198.4 | 12 350 | 12 351.4 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | 16 MHz band | | | |
| Channel No. | Coast stations | | Ship stations | |
|  | Carrier frequency | Assigned frequency | Carrier frequency | Assigned frequency |
| 1601 | 17 242 | 17 243.4 | 16 360 | 16 361.4 |
| 1602 | 17 245 | 17 246.4 | 16 363 | 16 364.4 |
| 1603 | 17 248 | 17 249.4 | 16 366 | 16 367.4 |
| 1604 | 17 251 | 17 252.4 | 16 369 | 16 370.4 |
| 1605 | 17 254 | 17 255.4 | 16 372 | 16 373.4 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | 16 MHz band (*end*) | | | |
| Channel No. | Coast stations | | Ship stations | |
|  | Carrier frequency | Assigned frequency | Carrier frequency | Assigned frequency |
| 1606 | 17 257 | 17 258.4 | 16 375 | 16 376.4 |
| 1607 | 17 260 | 17 261.4 | 16 378 | 16 379.4 |
| 1608 | 17 263 | 17 264.4 | 16 381 | 16 382.4 |
| 1609 | 17 266 | 17 267.4 | 16 384 | 16 385.4 |
| 1610 | 17 269 | 17 270.4 | 16 387 | 16 388.4 |
| 1611 | 17 272 | 17 273.4 | 16 390 | 16 391.4 |
| 1612 | 17 275 | 17 276.4 | 16 393 | 16 394.4 |
| 1613 | 17 278 | 17 279.4 | 16 396 | 16 397.4 |
| 1614 | 17 281 | 17 282.4 | 16 399 | 16 400.4 |
| 1615 | 17 284 | 17 285.4 | 16 402 | 16 403.4 |
| 1616 | 17 287 | 17 288.4 | 16 405 | 16 406.4 |
| 1617 | 17 290 | 17 291.4 | 16 408 | 16 409.4 |
| 1618 | 17 293 | 17 294.4 | 16 411 | 16 412.4 |
| 1619 | 17 296 | 17 297.4 | 16 414 | 16 415.4 |
| 1620 | 17 299 | 17 300.4 | 16 417 | 16 418.4 |
| 1621 | 17 302 \* | 17 303.4 \* | 16 420 \* 9 | 16 421.4 \* |
| 1622 | 17 305 | 17 306.4 | 16 423 | 16 424.4 |
| 1623 | 17 308 | 17 309.4 | 16 426 | 16 427.4 |
| 1624 | 17 311 | 17 312.4 | 16 429 | 16 430.4 |
| 1625 | 17 314 | 17 315.4 | 16 432 | 16 433.4 |
| 1626 | 17 317 | 17 318.4 | 16 435 | 16 436.4 |
| 1627 | 17 320 | 17 321.4 | 16 438 | 16 439.4 |
| 1628 | 17 323 | 17 324.4 | 16 441 | 16 442.4 |
| 1629 | 17 326 | 17 327.4 | 16 444 | 16 445.4 |
| 1630 | 17 329 | 17 330.4 | 16 447 | 16 448.4 |
| 1631 | 17 332 | 17 333.4 | 16 450 | 16 451.4 |
| 1632 | 17 335 | 17 336.4 | 16 453 | 16 454.4 |
| 1633 | 17 338 | 17 339.4 | 16 456 | 16 457.4 |
| 1634 | 17 341 | 17 342.4 | 16 459 | 16 460.4 |
| 1635 | 17 344 | 17 345.4 | 16 462 | 16 463.4 |
| 1636 | 17 347 | 17 348.4 | 16 465 | 16 466.4 |
| 1637 | 17 350 | 17 351.4 | 16 468 | 16 469.4 |
| 1638 | 17 353 | 17 354.4 | 16 471 | 16 472.4 |
| 1639 | 17 356 | 17 357.4 | 16 474 | 16 475.4 |
| 1640 | 17 359 | 17 360.4 | 16 477 | 16 478.4 |
| 1641 | 17 362 | 17 363.4 | 16 480 | 16 481.4 |
| 1642 | 17 365 | 17 366.4 | 16 483 | 16 484.4 |
| 1643 | 17 368 | 17 369.4 | 16 486 | 16 487.4 |
| 1644 | 17 371 | 17 372.4 | 16 489 | 16 490.4 |
| 1645 | 17 374 | 17 375.4 | 16 492 | 16 493.4 |
| 1646 | 17 377 | 17 378.4 | 16 495 | 16 496.4 |
| 1647 | 17 380 | 17 381.4 | 16 498 | 16 499.4 |
| 1648 | 17 383 | 17 384.4 | 16 501 | 16 502.4 |
| 1649 | 17 386 | 17 387.4 | 16 504 | 16 505.4 |
| 1650 | 17 389 | 17 390.4 | 16 507 | 16 508.4 |
| 1651 | 17 392 | 17 393.4 | 16 510 | 16 511.4 |
| 1652 | 17 395 | 17 396.4 | 16 513 | 16 514.4 |
| 1653 | 17 398 | 17 399.4 | 16 516 | 16 517.4 |
| 1654 | 17 401 | 17 402.4 | 16 519 | 16 520.4 |
| 1655 | 17 404 | 17 405.4 | 16 522 | 16 523.4 |
| 1656 | 17 407 | 17 408.4 | 16 525 | 16 526.4 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | 18/19 MHz band | | | |
| Channel No. | Coast stations | | Ship stations | |
|  | Carrier frequency | Assigned frequency | Carrier frequency | Assigned frequency |
| 1801 | 19 755 | 19 756.4 | 18 780 | 18 781.4 |
| 1802 | 19 758 | 19 759.4 | 18 783 | 18 784.4 |
| 1803 | 19 761 | 19 762.4 | 18 786 | 18 787.4 |
| 1804 | 19 764 | 19 765.4 | 18 789 | 18 790.4 |
| 1805 | 19 767 | 19 768.4 | 18 792 | 18 793.4 |
| 1806 | 19 770 \* | 19 771.4 \* | 18 795 \* | 18 796.4 \* |
| 1807 | 19 773 | 19 774.4 | 18 798 | 18 799.4 |
| 1808 | 19 776 | 19 777.4 | 18 801 | 18 802.4 |
| 1809 | 19 779 | 19 780.4 | 18 804 | 18 805.4 |
| 1810 | 19 782 | 19 783.4 | 18 807 | 18 808.4 |
| 1811 | 19 785 | 19 786.4 | 18 810 | 18 811.4 |
| 1812 | 19 788 | 19 789.4 | 18 813 | 18 814.4 |
| 1813 | 19 791 | 19 792.4 | 18 816 | 18 817.4 |
| 1814 | 19 794 | 19 795.4 | 18 819 | 18 820.4 |
| 1815 | 19 797 | 19 798.4 | 18 822 | 18 823.4 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | 22 MHz band | | | |
| Channel No. | Coast stations | | Ship stations | |
|  | Carrier frequency | Assigned frequency | Carrier frequency | Assigned frequency |
| 2201 | 22 696 | 22 697.4 | 22 000 | 22 001.4 |
| 2202 | 22 699 | 22 700.4 | 22 003 | 22 004.4 |
| 2203 | 22 702 | 22 703.4 | 22 006 | 22 007.4 |
| 2204 | 22 705 | 22 706.4 | 22 009 | 22 010.4 |
| 2205 | 22 708 | 22 709.4 | 22 012 | 22 013.4 |
| 2206 | 22 711 | 22 712.4 | 22 015 | 22 016.4 |
| 2207 | 22 714 | 22 715.4 | 22 018 | 22 019.4 |
| 2208 | 22 717 | 22 718.4 | 22 021 | 22 022.4 |
| 2209 | 22 720 | 22 721.4 | 22 024 | 22 025.4 |
| 2210 | 22 723 | 22 724.4 | 22 027 | 22 028.4 |
| 2211 | 22 726 | 22 727.4 | 22 030 | 22 031.4 |
| 2212 | 22 729 | 22 730.4 | 22 033 | 22 034.4 |
| 2213 | 22 732 | 22 733.4 | 22 036 | 22 037.4 |
| 2214 | 22 735 | 22 736.4 | 22 039 | 22 040.4 |
| 2215 | 22 738 | 22 739.4 | 22 042 | 22 043.4 |
| 2216 | 22 741 | 22 742.4 | 22 045 | 22 046.4 |
| 2217 | 22 744 | 22 745.4 | 22 048 | 22 049.4 |
| 2218 | 22 747 | 22 748.4 | 22 051 | 22 052.4 |
| 2219 | 22 750 | 22 751.4 | 22 054 | 22 055.4 |
| 2220 | 22 753 | 22 754.4 | 22 057 | 22 058.4 |
| 2221 | 22 756 \* | 22 757.4 \* | 22 060 \* | 22 061.4 \* |
| 2222 | 22 759 | 22 760.4 | 22 063 | 22 064.4 |
| 2223 | 22 762 | 22 763.4 | 22 066 | 22 067.4 |
| 2224 | 22 765 | 22 766.4 | 22 069 | 22 070.4 |
| 2225 | 22 768 | 22 769.4 | 22 072 | 22 073.4 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | 22 MHz band (*end*) | | | |
| Channel No. | Coast stations | | Ship stations | |
|  | Carrier frequency | Assigned frequency | Carrier frequency | Assigned frequency |
| 2226 | 22 771 | 22 772.4 | 22 075 | 22 076.4 |
| 2227 | 22 774 | 22 775.4 | 22 078 | 22 079.4 |
| 2228 | 22 777 | 22 778.4 | 22 081 | 22 082.4 |
| 2229 | 22 780 | 22 781.4 | 22 084 | 22 085.4 |
| 2230 | 22 783 | 22 784.4 | 22 087 | 22 088.4 |
| 2231 | 22 786 | 22 787.4 | 22 090 | 22 091.4 |
| 2232 | 22 789 | 22 790.4 | 22 093 | 22 094.4 |
| 2233 | 22 792 | 22 793.4 | 22 096 | 22 097.4 |
| 2234 | 22 795 | 22 796.4 | 22 099 | 22 100.4 |
| 2235 | 22 798 | 22 799.4 | 22 102 | 22 103.4 |
| 2236 | 22 801 | 22 802.4 | 22 105 | 22 106.4 |
| 2237 | 22 804 | 22 805.4 | 22 108 | 22 109.4 |
| 2238 | 22 807 | 22 808.4 | 22 111 | 22 112.4 |
| 2239 | 22 810 | 22 811.4 | 22 114 | 22 115.4 |
| 2240 | 22 813 | 22 814.4 | 22 117 | 22 118.4 |
| 2241 | 22 816 | 22 817.4 | 22 120 | 22 121.4 |
| 2242 | 22 819 | 22 820.4 | 22 123 | 22 124.4 |
| 2243 | 22 822 | 22 823.4 | 22 126 | 22 127.4 |
| 2244 | 22 825 | 22 826.4 | 22 129 | 22 130.4 |
| 2245 | 22 828 | 22 829.4 | 22 132 | 22 133.4 |
| 2246 | 22 831 | 22 832.4 | 22 135 | 22 136.4 |
| 2247 | 22 834 | 22 835.4 | 22 138 | 22 139.4 |
| 2248 | 22 837 | 22 838.4 | 22 141 | 22 142.4 |
| 2249 | 22 840 | 22 841.4 | 22 144 | 22 145.4 |
| 2250 | 22 843 | 22 844.4 | 22 147 | 22 148.4 |
| 2251 | 22 846 | 22 847.4 | 22 150 | 22 151.4 |
| 2252 | 22 849 | 22 850.4 | 22 153 | 22 154.4 |
| 2253 | 22 852 | 22 853.4 | 22 156 | 22 157.4 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | 25/26 MHz band | | | |
| Channel No. | Coast stations | | Ship stations | |
|  | Carrier frequency | Assigned frequency | Carrier frequency | Assigned frequency |
| 2501 | 26 145 | 26 146.4 | 25 070 | 25 071.4 |
| 2502 | 26 148 | 26 149.4 | 25 073 | 25 074.4 |
| 2503 | 26 151 | 26 152.4 | 25 076 | 25 077.4 |
| 2504 | 26 154 | 26 155.4 | 25 079 | 25 080.4 |
| 2505 | 26 157 | 26 158.4 | 25 082 | 25 083.4 |
| 2506 | 26 160 | 26 161.4 | 25 085 | 25 086.4 |
| 2507 | 26 163 | 26 164.4 | 25 088 | 25 089.4 |
| 2508 | 26 166 | 26 167.4 | 25 091 | 25 092.4 |
| 2509 | 26 169 | 26 170.4 | 25 094 | 25 095.4 |
| 2510 | 26 172 \* | 26 173.4 \* | 25 097 \* | 25 098.4 \* |

1 These coast station frequencies may be paired with a ship station frequency from the Table of simplex frequencies for ship and coast stations (see Sub‑Section B) or with a frequency from the band 4 000-4 063 kHz (see Sub‑Section C-1) to be selected by the administration concerned.

2 (SUP - WRC‑2000)

3 These channels may also be used for simplex (single frequency) operation.

4 For the conditions of use of the carrier frequency 4 125 kHz, see Nos. **52.224** and **52.225**, and Appendix **15**.

5 For the conditions of use of the carrier frequency 6 215 kHz, see Appendix **15**.     (WRC-07)

6 These coast station frequencies may be paired with a ship station frequency from the Table of simplex frequencies for ship and coast stations (see Sub‑Section B) or with a frequency from the band 8 100-8 195 kHz (see Sub‑Section C-2) to be selected by the administration concerned.

7 For the conditions of use of the carrier frequency 8 291 kHz, see Appendix **15**.

8 For the conditions of use of the carrier frequency 12 290 kHz, see Nos. **52.221A** and **52.222A** and Appendix **15**.     (WRC‑2000)

9 For the conditions of use of the carrier frequency 16 420 kHz, see Nos. **52.221A** and **52.222A** and Appendix **15**.     (WRC‑2000)

\* The frequencies followed by an asterisk are calling frequencies (see Nos. **52.221** and **52.222**).

Sub-Section B

**Table of single-sideband transmitting frequencies (kHz) for simplex (single-frequency)   
operation and for intership cross-band (two-frequency) operation**

(See § 4 of Section I of this Appendix)

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 4 MHz band1 | | 6 MHz band | | 8 MHz band2 | | 12 MHz band3 | | |
| Carrier frequency | Assigned frequency | Carrier frequency | Assigned frequency | Carrier frequency | Assigned frequency | Carrier frequency | Assigned frequency | |
| 4 146 4 149 | 4 147.4 4 150.4 | 6 224 6 227 6 230 | 6 225.4 6 228.4 6 231.4 | 8 294 8 297 | 8 295.4 8 298.4 | 12 353 12 356 12 362 12 365 | 12 354.4 12 357.4 12 363.4 12 366.4 | |
| 1 These frequencies may be used for duplex operation with coast stations operating on Channel Nos. 428 and 429 (see Sub‑Section A).  2 These frequencies may be used for duplex operation with coast stations operating on Channel Nos. 834 up to and including 837 (see Sub-Section A).  3 For use of frequencies 12 359 kHz and 16 537 kHz, see Nos. **52.221A** and **52.222A**.     (WRC‑2000) | | | | | | | |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 16 MHz band3 | | 18/19 MHz band | | 22 MHz band | | 25/26 MHz band | |
| Carrier frequency | Assigned frequency | Carrier frequency | Assigned frequency | Carrier frequency | Assigned frequency | Carrier frequency | Assigned frequency |
| 16 528 16 531 16 534  16 540 16 543 16 546 | 16 529.4 16 532.4 16 535.4  16 541.4 16 544.4 16 547.4 | 18 825 18 828 18 831 18 834 18 837 18 840 18 843 | 18 826.4 18 829.4 18 832.4 18 835.4 18 838.4 18 841.4 18 844.4 | 22 159 22 162 22 165 22 168 22 171 22 174 22 177 | 22 160.4 22 163.4 22 166.4 22 169.4 22 172.4 22 175.4 22 178.4 | 25 100 25 103 25 106 25 109 25 112 25 115 25 118 | 25 101.4 25 104.4 25 107.4 25 110.4 25 113.4 25 116.4 25 119.4 |
| 3 For use of frequencies 12 359 kHz and 16 537 kHz, see Nos. **52.221A** and **52.222A**.     (WRC‑2000) | | | | | | | | |

Sub-Section C-1

**Table of recommended single-sideband transmitting frequencies (kHz) for   
ship stations in the band 4 000-4 063 kHz shared with the fixed service**

The frequencies in this Sub‑Section may be used:

– for supplementing ship-to-shore channels for duplex operation in Sub-Section A;

– for intership simplex (single-frequency) and cross-band operation;

– for cross-band working with coast stations on channels in Sub‑Section C-2;

– for duplex operation with coast stations working in the band 4 438-4 650 kHz;

– for duplex operation with Channel Nos. 428 and 429.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Channel No. | Carrier frequency | Assigned frequency | Channel No. | Carrier frequency | Assigned frequency |
| 1 | 4 000\* | 4 001.4\* | 12 | 4 033 | 4 034.4 |
| 2 | 4 003\* | 4 004.4\* | 13 | 4 036 | 4 037.4 |
| 3 | 4 006 | 4 007.4 | 14 | 4 039 | 4 040.4 |
| 4 | 4 009 | 4 010.4 | 15 | 4 042 | 4 043.4 |
| 5 | 4 012 | 4 013.4 | 16 | 4 045 | 4 046.4 |
| 6 | 4 015 | 4 016.4 | 17 | 4 048 | 4 049.4 |
| 7 | 4 018 | 4 019.4 | 18 | 4 051 | 4 052.4 |
| 8 | 4 021 | 4 022.4 | 19 | 4 054 | 4 055.4 |
| 9 | 4 024 | 4 025.4 | 20 | 4 057 | 4 058.4 |
| 10 | 4 027 | 4 028.4 | 21 | 4 060 | 4 061.4 |
| 11 | 4 030 | 4 031.4 |  |  |  |
| \* Administrations are requested to urge ship stations under their jurisdiction to refrain from using the band 4 000-4 005 kHz when navigating in Region 3 (see also No. **5.126**). | | | | | | |

Sub-Section C-2

**Table of recommended single-sideband transmitting frequencies (kHz) for ship   
and coast stations in the band 8 100-8 195 kHz shared with the fixed service**

(See § 7 of Section I of this Appendix)

The frequencies in this Sub-Section may be used:

– for supplementing ship-to-shore and shore-to-ship channels for duplex operation in Sub‑Section A;

– for intership simplex (single frequency) and cross-band operation;

– for cross-band working with ship stations on channels in Sub‑Section C-1;

– for ship-to-shore or shore-to-ship simplex operation;

– for duplex operation with Channel Nos. 834, 835, 836 and 837.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Channel No. | Carrier frequency | Assigned frequency | Channel No. | Carrier frequency | Assigned frequency |
| 1 | 8 101 | 8 102.4 | 17 | 8 149 | 8 150.4 |
| 2 | 8 104 | 8 105.4 | 18 | 8 152 | 8 153.4 |
| 3 | 8 107 | 8 108.4 | 19 | 8 155 | 8 156.4 |
| 4 | 8 110 | 8 111.4 | 20 | 8 158 | 8 159.4 |
| 5 | 8 113 | 8 114.4 | 21 | 8 161 | 8 162.4 |
| 6 | 8 116 | 8 117.4 | 22 | 8 164 | 8 165.4 |
| 7 | 8 119 | 8 120.4 | 23 | 8 167 | 8 168.4 |
| 8 | 8 122 | 8 123.4 | 24 | 8 170 | 8 171.4 |
| 9 | 8 125 | 8 126.4 | 25 | 8 173 | 8 174.4 |
| 10 | 8 128 | 8 129.4 | 26 | 8 176 | 8 177.4 |
| 11 | 8 131 | 8 132.4 | 27 | 8 179 | 8 180.4 |
| 12 | 8 134 | 8 135.4 | 28 | 8 182 | 8 183.4 |
| 13 | 8 137 | 8 138.4 | 29 | 8 185 | 8 186.4 |
| 14 | 8 140 | 8 141.4 | 30 | 8 188 | 8 189.4 |
| 15 | 8 143 | 8 144.4 | 31 | 8 191 | 8 192.4 |
| 16 | 8 146 | 8 147.4 |  |  |  |

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

1 Each coast station which uses paired frequencies is assigned one or more frequency pairs from the following series; each pair consists of a transmitting and a receiving frequency.

2 The speed of the narrow-band direct-printing telegraphy and data systems shall not exceed 100 Bd for FSK and 200 Bd for PSK.

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

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Channel | 4 MHz band 1 | | 6 MHz band 3 | | 8 MHz band 4 | |
| No. | Transmit | Receive | Transmit | Receive | Transmit | Receive |
| 1  2  3  4  5 | 4 210.5 4 211 4 211.5 4 212 4 212.5 | 4 172.5 4 173 4 173.5 4 174 4 174.5 | 6 314.5 6 315 6 315.5 6 316 6 316.5 | 6 263 6 263.5 6 264 6 264.5 6 265 | 8 376.5 2 8 417 8 417.5 8 418 8 418.5 | 8 376.5 2 8 377 8 377.5 8 378 8 378.5 |
| 6  7  8  9 10 | 4 213 4 213.5 4 214 4 214.5 4 215 | 4 175 4 175.5 4 176 4 176.5 4 177 | 6 317 6 317.5 6 318 6 318.5 6 319 | 6 265.5 6 266 6 266.5 6 267 6 267.5 | 8 419 8 419.5 8 420 8 420.5 8 421 | 8 379 8 379.5 8 380 8 380.5 8 381 |
| 11 12 13 14 15 | 4 177.5 2 4 215.5 4 216 4 216.5 4 217 | 4 177.5 2 4 178 4 178.5 4 179 4 179.5 | 6 268 2 6 319.5 6 320 6 320.5 6 321 | 6 268 2 6 268.5 6 269 6 269.5 6 270 | 8 421.5 8 422 8 422.5 8 423 8 423.5 | 8 381.5 8 382 8 382.5 8 383 8 383.5 |
| 16 17 18 19 20 | 4 217.5 4 218 4 218.5 4 219 | 4 180 4 180.5 4 181 4 181.5 | 6 321.5 6 322 6 322.5 6 323 6 323.5 | 6 270.5 6 271 6 271.5 6 272 6 272.5 | 8 424 8 424.5 8 425 8 425.5 8 426 | 8 384 8 384.5 8 385 8 385.5 8 386 |
| 21 22 23 24 25 |  |  | 6 324 6 324.5 6 325 6 325.5 6 326 | 6 273 6 273.5 6 274 6 274.5 6 275 | 8 426.5 8 427 8 427.5 8 428 8 428.5 | 8 386.5 8 387 8 387.5 8 388 8 388.5 |
| 26 27 28 29 30 |  |  | 6 326.5 6 327 6 327.5 6 328 6 328.5 | 6 275.5 6 281 6 281.5 6 282 6 282.5 | 8 429 8 429.5 8 430 8 430.5 8 431 | 8 389 8 389.5 8 390 8 390.5 8 391 |
| 31 32 33 34 35 |  |  | 6 329 6 329.5 6 330 6 330.5 | 6 283 6 283.5 6 284 6 284.5 | 8 431.5 8 432 8 432.5 8 433 8 433.5 | 8 391.5 8 392 8 392.5 8 393 8 393.5 |
| 36 37 38 39 40 |  |  |  |  | 8 434 8 434.5 8 435 8 435.5 8 436 | 8 394 8 394.5 8 395 8 395.5 8 396 |
| 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 | 12 MHz band 5 | | 16 MHz band 6 | | 18/19 MHz band | |
| No. | Transmit | Receive | Transmit | Receive | Transmit | Receive |
| 1  2  3  4  5 | 12 579.5 12 580 12 580.5 12 581 12 581.5 | 12 477 12 477.5 12 478 12 478.5 12 479 | 16 807 16 807.5 16 808 16 808.5 16 809 | 16 683.5 16 684 16 684.5 16 685 16 685.5 | 19 681 19 681.5 19 682 19 682.5 19 683 | 18 870.5 18 871 18 871.5 18 872 18 872.5 |
| 6  7  8  9 10 | 12 582 12 582.5 12 583 12 583.5 12 584 | 12 479.5 12 480 12 480.5 12 481 12 481.5 | 16 809.5 16 810 16 810.5 16 811 16 811.5 | 16 686 16 686.5 16 687 16 687.5 16 688 | 19 683.5 19 684 19 684.5 19 685 19 685.5 | 18 873 18 873.5 18 874 18 874.5 18 875 |
| 11 12 13 14 15 | 12 584.5 12 585 12 585.5 12 586 12 586.5 | 12 482 12 482.5 12 483 12 483.5 12 484 | 16 812 16 812.5 16 813 16 813.5 16 814 | 16 688.5 16 689 16 689.5 16 690 16 690.5 | 19 686 19 686.5 19 687 19 687.5 19 688 | 18 875.5 18 876 18 876.5 18 877 18 877.5 |
| 16 17 18 19 20 | 12 587 12 587.5 12 588 12 588.5 12 589 | 12 484.5 12 485 12 485.5 12 486 12 486.5 | 16 814.5 16 815 16 815.5 16 816 16 816.5 | 16 691 16 691.5 16 692 16 692.5 16 693 | 19 688.5 19 689 19 689.5 19 690 19 690.5 | 18 878 18 878.5 18 879 18 879.5 18 880 |
| 21 22 23 24 25 | 12 589.5 12 590 12 590.5 12 591 12 591.5 | 12 487 12 487.5 12 488 12 488.5 12 489 | 16 817 16 817.5 16 818 16 695 2 16 818.5 | 16 693.5 16 694 16 694.5 16 695 2 16 695.5 | 19 691 19 691.5 19 692 19 692.5 19 693 | 18 880.5 18 881 18 881.5 18 882 18 882.5 |
| 26 27 28 29 30 | 12 592 12 592.5 12 593 12 593.5 12 594 | 12 489.5 12 490 12 490.5 12 491 12 491.5 | 16 819 16 819.5 16 820 16 820.5 16 821 | 16 696 16 696.5 16 697 16 697.5 16 698 | 19 693.5 19 694 19 694.5 19 695 19 695.5 | 18 883 18 883.5 18 884 18 884.5 18 885 |
| 31 32 33 34 35 | 12 594.5 12 595 12 595.5 12 596 12 596.5 | 12 492 12 492.5 12 493 12 493.5 12 494 | 16 821.5 16 822 16 822.5 16 823 16 823.5 | 16 698.5 16 699 16 699.5 16 700 16 700.5 | 19 696 19 696.5 19 697 19 697.5 19 698 | 18 885.5 18 886 18 886.5 18 887 18 887.5 |
| 36 37 38 39 40 | 12 597 12 597.5 12 598 12 598.5 12 599 | 12 494.5 12 495 12 495.5 12 496 12 496.5 | 16 824 16 824.5 16 825 16 825.5 16 826 | 16 701 16 701.5 16 702 16 702.5 16 703 | 19 698.5 19 699 19 699.5 19 700 19 700.5 | 18 888 18 888.5 18 889 18 889.5 18 890 |
| 41 42 43 44 45 | 12 599.5 12 600 12 600.5 12 601 12 601.5 | 12 497 12 497.5 12 498 12 498.5 12 499 | 16 826.5 16 827 16 827.5 16 828 16 828.5 | 16 703.5 16 704 16 704.5 16 705 16 705.5 | 19 701 19 701.5 19 702 19 702.5 19 703 | 18 890.5 18 891 18 891.5 18 892 18 892.5 |
| 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 | 12 MHz band 5 (*cont.*) | | 16 MHz band 6 (*cont.)* | |
| No. | Transmit | Receive | Transmit | Receive |
| 46 47 48 49 50 | 12 602 12 602.5 12 603 12 603.5 12 604 | 12 499.5 12 500 12 500.5 12 501 12 501.5 | 16 829 16 829.5 16 830 16 830.5 16 831 | 16 706 16 706.5 16 707 16 707.5 16 708 |
| 51 52 53 54 55 | 12 604.5 12 605 12 605.5 12 606 12 606.5 | 12 502 12 502.5 12 503 12 503.5 12 504 | 16 831.5 16 832 16 832.5 16 833 16 833.5 | 16 708.5 16 709 16 709.5 16 710 16 710.5 |
| 56 57 58 59 60 | 12 607 12 607.5 12 608 12 608.5 12 609 | 12 504.5 12 505 12 505.5 12 506 12 506.5 | 16 834 16 834.5 16 835 16 835.5 16 836 | 16 711 16 711.5 16 712 16 712.5 16 713 |
| 61 62 63 64 65 | 12 609.5 12 610 12 610.5 12 611 12 611.5 | 12 507 12 507.5 12 508 12 508.5 12 509 | 16 836.5 16 837 16 837.5 16 838 16 838.5 | 16 713.5 16 714 16 714.5 16 715 16 715.5 |
| 66 67 68 69 70 | 12 612 12 612.5 12 613 12 613.5 12 614 | 12 509.5 12 510 12 510.5 12 511 12 511.5 | 16 839 16 839.5 16 840 16 840.5 16 841 | 16 716 16 716.5 16 717 16 717.5 16 718 |
| 71 72 73 74 75 | 12 614.5 12 615 12 615.5 12 616 12 616.5 | 12 512 12 512.5 12 513 12 513.5 12 514 | 16 841.5 16 842 16 842.5 16 843 16 843.5 | 16 718.5 16 719 16 719.5 16 720 16 720.5 |
| 76 77 78 79 80 | 12 617 12 617.5 12 618 12 618.5 12 619 | 12 514.5 12 515 12 515.5 12 516 12 516.5 | 16 844 16 844.5 16 845 16 845.5 16 846 | 16 721 16 721.5 16 722 16 722.5 16 723 |
| 81 82 83 84 85 | 12 619.5 12 620 12 620.5 12 621 12 621.5 | 12 517 12 517.5 12 518 12 518.5 12 519 | 16 846.5 16 847 16 847.5 16 848 16 848.5 | 16 723.5 16 724 16 724.5 16 725 16 725.5 |
| 86 87 88 89 90 | 12 622 12 520 2 12 622.5 12 623 12 623.5 | 12 519.5 12 520 2 12 520.5 12 521 12 521.5 | 16 849 16 849.5 16 850 16 850.5 16 851 | 16 726 16 726.5 16 727 16 727.5 16 728 |
| 91 92 93 94 95 | 12 624 12 624.5 12 625 12 625.5 12 626 | 12 522 12 522.5 12 523 12 523.5 12 524 | 16 851.5 16 852 16 852.5 16 853 16 853.5 | 16 728.5 16 729 16 729.5 16 730 16 730.5 |

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

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

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

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

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

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Channel | | 22 MHz band 7 | | 25/26 MHz band | |
| No. | | Transmit | Receive | Transmit | Receive |
| 1  2  3  4  5 | | 22 376.5 22 377 22 377.5 22 378 22 378.5 | 22 284.5 22 285 22 285.5 22 286 22 286.5 | 26 101 26 101.5 26 102 26 102.5 26 103 | 25 173 25 173.5 25 174 25 174.5 25 175 |
| 6  7  8  9 10 | | 22 379 22 379.5 22 380 22 380.5 22 381 | 22 287 22 287.5 22 288 22 288.5 22 289 | 26 103.5 26 104 26 104.5 26 105 26 105.5 | 25 175.5 25 176 25 176.5 25 177 25 177.5 |
| 11 12 13 14 15 | | 22 381.5 22 382 22 382.5 22 383 22 383.5 | 22 289.5 22 290 22 290.5 22 291 22 291.5 | 26 106 26 106.5 26 107 26 107.5 26 108 | 25 178 25 178.5 25 179 25 179.5 25 180 |
| 16 17 18 19 20 | | 22 384 22 384.5 22 385 22 385.5 22 386 | 22 292 22 292.5 22 293 22 293.5 22 294 | 26 108.5 26 109 26 109.5 26 110 26 110.5 | 25 180.5 25 181 25 181.5 25 182 25 182.5 |
| 21 22 23 24 25 | | 22 386.5 22 387 22 387.5 22 388 22 388.5 | 22 294.5 22 295 22 295.5 22 296 22 296.5 | 26 111 26 111.5 26 112 26 112.5 26 113 | 25 183 25 183.5 25 184 25 184.5 25 185 |
| 26 27 28 29 30 | | 22 389 22 389.5 22 390 22 390.5 22 391 | 22 297 22 297.5 22 298 22 298.5 22 299 | 26 113.5 26 114 26 114.5 26 115 26 115.5 | 25 185.5 25 186 25 186.5 25 187 25 187.5 |
| 31 32 33 34 35 | | 22 391.5 22 392 22 392.5 22 393 22 393.5 | 22 299.5 22 300 22 300.5 22 301 22 301.5 | 26 116 26 116.5 26 117 26 117.5 26 118 | 25 188 25 188.5 25 189 25 189.5 25 190 |
| 36 37 38 39 40 | | 22 394 22 394.5 22 395 22 395.5 22 396 | 22 302 22 302.5 22 303 22 303.5 22 304 | 26 118.5 26 119 26 119.5 26 120 26 120.5 | 25 190.5 25 191 25 191.5 25 192 25 192.5 |
| 41 42 43 44 45 | | 22 396.5 22 397 22 397.5 22 398 22 398.5 | 22 304.5 22 305 22 305.5 22 306 22 306.5 |  |  |
| 46 47 48 49 50 | | 22 399 22 399.5 22 400 22 400.5 22 401 | 22 307 22 307.5 22 308 22 308.5 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 | 22 MHz band 7 (*cont.*) | |
| No. | Transmit | Receive |
| 51  52  53  54  55 | 22 401.5 22 402 22 402.5 22 403 22 403.5 | 22 309.5 22 310 22 310.5 22 311 22 311.5 |
| 56  57  58  59  60 | 22 404 22 404.5 22 405 22 405.5 22 406 | 22 312 22 312.5 22 313 22 313.5 22 314 |
| 61  62  63  64  65 | 22 406.5 22 407 22 407.5 22 408 22 408.5 | 22 314.5 22 315 22 315.5 22 316 22 316.5 |
| 66  67  68  69  70 | 22 409 22 409.5 22 410 22 410.5 22 411 | 22 317 22 317.5 22 318 22 318.5 22 319 |
| 71  72  73  74  75 | 22 411.5 22 412 22 412.5 22 413 22 413.5 | 22 319.5 22 320 22 320.5 22 321 22 321.5 |
| 76  77  78  79  80 | 22 414 22 414.5 22 415 22 415.5 22 416 | 22 322 22 322.5 22 323 22 323.5 22 324 |
| 81  82  83  84  85 | 22 416.5 22 417 22 417.5 22 418 22 418.5 | 22 324.5 22 325 22 325.5 22 326 22 326.5 |
| 86  87  88  89  90 | 22 419 22 419.5 22 420 22 420.5 22 421 | 22 327 22 327.5 22 328 22 328.5 22 329 |
| 91  92  93  94  95 | 22 421.5 22 422 22 422.5 22 423 22 423.5 | 22 329.5 22 330 22 330.5 22 331 22 331.5 |
| 96  97  98  99 100 | 22 424 22 424.5 22 425 22 425.5 22 426 | 22 332 22 332.5 22 333 22 333.5 22 334 |
| 101 102 103 104 105 | 22 426.5 22 427 22 427.5 22 428 22 428.5 | 22 334.5 22 335 22 335.5 22 336 22 336.5 |

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

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

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

1 One or more frequencies are assigned to each ship station as transmitting frequencies.

2 All frequencies in this Appendix may also be used by ship stations for transmitting A1A or A1B Morse telegraphy (working).

3 All frequencies appearing in this Appendix may be used for NBDP duplex operation.

The corresponding coast station frequencies should be selected by the administration concerned from the sub-bands for coast station wideband telegraphy, A1A or A1B Morse telegraphy, facsimile, special and data transmission systems and direct-printing telegraphy systems.

4 The speed of the narrow-band direct-printing telegraphy and data systems shall not exceed 100 Bd for FSK and 200 Bd for PSK.

Table of ship station transmitting frequencies (kHz)

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Frequency bands | | | | | | | | |
| Channel  No. | 4 MHz | 6 MHz | 8 MHz | 12 MHz | 16 MHz | 18/19 MHz | 22 MHz | 25/26  MHz |
| 1  2  3  4  5 | 4 202.5 4 203 4 203.5 4 204 4 204.5 | 6 300.5 6 301 6 301.5 6 302 6 302.5 | 8 396.5 8 397 8 397.5 8 398 8 398.5 | 12 560 12 560.5 12 561 12 561.5 12 562 | 16 785 16 785.5 16 786 16 786.5 16 787 | 18 893 18 893.5 18 894 18 894.5 18 895 | 22 352 22 352.5 22 353 22 353.5 22 354 | 25 193 25 193.5 25 194 25 194.5 25 195 |
| 6  7  8  9 10 | 4 205 4 205.5 4 206 4 206.5 4 207 | 6 303 6 303.5 6 304 6 304.5 6 305 | 8 399 8 399.5 8 400 8 400.5 8 401 | 12 562.5 12 563 12 563.5 12 564 12 564.5 | 16 787.5 16 788 16 788.5 16 789 16 789.5 | 18 895.5 18 896 18 896.5 18 897 18 897.5 | 22 354.5 22 355 22 355.5 22 356 22 356.5 | 25 195.5 25 196 25 196.5 25 197 25 197.5 |
| 11 12 13 14 15 |  | 6 305.5 6 306 6 306.5 6 307 6 307.5 | 8 401.5 8 402 8 402.5 8 403 8 403.5 | 12 565 12 565.5 12 566 12 566.5 12 567 | 16 790 16 790.5 16 791 16 791.5 16 792 | 18 898 | 22 357 22 357.5 22 358 22 358.5 22 359 | 25 198 25 198.5 25 199 25 199.5 25 200 |
| 16 17 18 19 20 |  | 6 308 6 308.5 6 309 6 309.5 6 310 | 8 404 8 404.5 8 405 8 405.5 8 406 | 12 567.5 12 568 12 568.5 12 569 12 569.5 | 16 792.5 16 793 16 793.5 16 794 16 794.5 |  | 22 359.5 22 360 22 360.5 22 361 22 361.5 | 25 200.5 25 201 25 201.5 25 202 25 202.5 |
| 21 22 23 24 25 |  | 6 310.5 6 311 6 311.5 | 8 406.5 8 407 8 407.5 8 408 8 408.5 | 12 570 12 570.5 12 571 12 571.5 12 572 | 16 795 16 795.5 16 796 16 796.5 16 797 |  | 22 362 22 362.5 22 363 22 363.5 22 364 | 25 203 25 203.5 25 204 25 204.5 25 205 |
| 26 27 28 29 30 |  |  | 8 409 8 409.5 8 410 8 410.5 8 411 | 12 572.5 12 573 12 573.5 12 574 12 574.5 | 16 797.5 16 798 16 798.5 16 799 16 799.5 |  | 22 364.5 22 365 22 365.5 22 366 22 366.5 | 25 205.5 25 206 25 206.5 25 207 25 207.5 |
| 31 32 33 34 35 |  |  | 8 411.5 8 412 8 412.5 8 413 8 413.5 | 12 575 12 575.5 12 576 12 576.5 | 16 800 16 800.5 16 801 16 801.5 16 802 |  | 22 367 22 367.5 22 368 22 368.5 22 369 | 25 208 |
| 36 37 38 39 40 |  |  | 8 414 |  | 16 802.5 16 803 16 803.5 16 804 |  | 22 369.5 22 370 22 370.5 22 371 22 371.5 |  |
| 41 42 43 44 45 |  |  |  |  |  |  | 22 372 22 372.5 22 373 22 373.5 22 374 |  |

Section IV – Morse telegraphy (calling)

Table of calling frequencies assignable to ship stations for A1A or A1B  
Morse telegraphy at speeds not exceeding 40 Bd\* (kHz)

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Group | Channel series | 4 MHz band | 6 MHz band | 8 MHz band | 12 MHz band | 16 MHz band | 22 MHz band | 25/26 MHz band |
| I | 1 2 | 4 182 4 182.5 | 6 277 6 277.5 | 8 366 8 366.5 | 12 550 12 550.5 | 16 734 16 734.5 | 22 279.5 22 280 | Channel A 25 171.5 Groups I  and II |
| Common channel Common channel | 3  4 | 4 184  4 184.5 | 6 276  6 276.5 | 8 368  8 369 | 12 552  12 553.5 | 16 736  16 738 | 22 280.5  22 281 | Common channel C 25 172 |
| II | 5 6 | 4 183 4 183.5 | 6 278 6 278.5 | 8 367 8 367.5 | 12 551 12 551.5 | 16 735 16 735.5 | 22 281.5 22 282 | Channel A 25 171.5 Groups I  and II |
| III | 7 8 | 4 185 4 185.5 | 6 279 6 279.5 | 8 368.5 8 369.5 | 12 552.5 12 553 | 16 736.5 16 737 | 22 282.5 22 283 | Channel B 25 172.5 |
| IV | 9 10 | 4 186 4 186.5 | 6 280 6 280.5 | 8 370 8 370.5 | 12 554 12 554.5 | 16 737.5 16 738.5 | 22 283.5 22 284 | Groups III and IV |
| \* Channel width in every band: 0.5 kHz.  NOTES  1 Only the common channels in the 4, 6, 8, 12 and 16 MHz for A1A Morse telegraphy are harmonically related.  2 Administrations should assign the frequencies as they appear in this Appendix only to ship stations equipped with cristal controlled oscillators.  3 However, administrations may subdivide each appropriate group channel and common channel into specific calling frequencies on every full 100 Hz in the channel and assign these discrete frequencies to ships with synthetized transmitters. | | | | | | | | | |

*Examples of subdivision of channels (centre frequencies are underlined)*

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 4 181.8 4 181.9 4 182 4 182.1 4 182.2 | 6 276.8 6 276.9 6 277 6 277.1 6 277.2 | 8 365.8 8 365.9 8 366 8 366.1 8 366.2 | 12 549.8 12 549.9 12 550 12 550.1 12 550.2 | 16 733.8 16 733.9 16 734 16 734.1 16 734.2 | 22 279.3 22 279.4 22 279.5 22 279.6 22 279.7 | 25 171.3 25 171.4 25 171.5 25 171.6 25 171.7 |
| 4 Administrations should avoid as far as possible, assigning the two frequencies at ± 100 Hz from the harmonically related common channel.  5 In the 22 MHz bands and 25/26 MHz bands the channels are not harmonically related to those in the 4 to 16 MHz bands. However, the principle of subdivision of channels into specific calling frequencies on 100 Hz applies. | | | | | | | |

Section V – Morse telegraphy (working)

Table of working frequencies (kHz) assignable to ship stations  
for A1A or A1B Morse telegraphy at speeds  
not exceeding 40 Bd

(See also Part A, Note *e)*)

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Frequency bands | | | | | | | |
| Channel No. | 4 MHz | 6 MHz | 8 MHz | 12 MHz | 16 MHz | 22 MHz | 25/26 MHz |
| 1  2  3  4  5 | 4 187 4 187.5 4 188 4 188.5 4 189 | 6 285 6 285.5 6 286 6 286.5 6 287 | 8 342 8 342.5 8 343 8 343.5 8 344 | 12 422 12 422.5 12 423 12 423.5 12 424 | 16 619 16 619.5 16 620 16 620.5 16 621 | 22 242 22 242.5 22 243 22 243.5 22 244 | 25 161.5 25 162 25 162.5 25 163 25 163.5 |
| 6  7  8  9 10 | 4 189.5 4 190 4 190.5 4 191 4 191.5 | 6 287.5 6 288 6 288.5 6 289 6 289.5 | 8 344.5 8 345 8 345.5 8 346 8 346.5 | 12 424.5 12 425 12 425.5 12 426 12 426.5 | 16 621.5 16 622 16 622.5 16 623 16 623.5 | 22 244.5 22 245 22 245.5 22 246 22 246.5 | 25 164 25 164.5 25 165 25 165.5 25 166 |
| 11 12 13 14 15 | 4 192 4 192.5 4 193 4 193.5 4 194 | 6 290 6 290.5 6 291 6 291.5 6 292 | 8 347 8 347.5 8 348 8 348.5 8 349 | 12 427 12 427.5 12 428 12 428.5 12 429 | 16 624 16 624.5 16 625 16 625.5 16 626 | 22 247 22 247.5 22 248 22 248.5 22 249 | 25 166.5 25 167 25 167.5 25 168 25 168.5 |
| 16 17 18 19 20 | 4 194.5 4 195 4 195.5 4 196 4 196.5 | 6 292.5 6 293 6 293.5 6 294 6 294.5 | 8 349.5 8 350 8 350.5 8 351 8 351.5 | 12 429.5 12 430 12 430.5 12 431 12 431.5 | 16 626.5 16 627 16 627.5 16 628 16 628.5 | 22 249.5 22 250 22 250.5 22 251 22 251.5 | 25 169 25 169.5 25 170 25 170.5 25 171 |
| 21 22 23 24 25 | 4 197 4 197.5 4 198 4 198.5 4 199 | 6 295 6 295.5 6 296 6 296.5 6 297 | 8 352 8 352.5 8 353 8 353.5 8 354 | 12 432 12 432.5 12 433 12 433.5 12 434 | 16 629 16 629.5 16 630 16 630.5 16 631 | 22 252 22 252.5 22 253 22 253.5 22 254 |  |
| 26 27 28 29 30 | 4 199.5 4 200 4 200.5 4 201 4 201.5 | 6 297.5 6 298 6 298.5 6 299 6 299.5 | 8 354.5 8 355 8 355.5 8 356 8 356.5 | 12 434.5 12 435 12 435.5 12 436 12 436.5 | 16 631.5 16 632 16 632.5 16 633 16 633.5 | 22 254.5 22 255 22 255.5 22 256 22 256.5 |  |
| 31 32 33 34 35 | 4 202 | 6 300 | 8 357 8 357.5 8 358 8 358.5 8 359 | 12 437 12 437.5 12 438 12 438.5 12 439 | 16 634 16 634.5 16 635 16 635.5 16 636 | 22 257 22 257.5 22 258 22 258.5 22 259 |  |
| 36 37 38 39 40 |  |  | 8 359.5 8 360 8 360.5 8 361 8 361.5 | 12 439.5 12 440 12 440.5 12 441 12 441.5 | 16 636.5 16 637 16 637.5 16 638 16 638.5 | 22 259.5 22 260 22 260.5 22 261 22 261.5 |  |
| 41 42 43 44 45 |  |  | 8 362 8 362.5 8 363 8 363.5 8 364 | 12 442 12 442.5 12 443 12 443.5 12 444 | 16 639 16 639.5 16 640 16 640.5 16 641 | 22 262 22 262.5 22 263 22 263.5 22 264 |  |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Frequency bands (*cont.*) | | | | | | | |
| Channel No. | 4 MHz | 6 MHz | 8 MHz | 12 MHz | 16 MHz | 22 MHz | 25/26 MHz |
| 46 47 48 49 50 |  |  | 8 364.5 8 365 8 365.5 8 371 8 371.5 | 12 444.5 12 445 12 445.5 12 446 12 446.5 | 16 641.5 16 642 16 642.5 16 643 16 643.5 | 22 264.5 22 265 22 265.5 22 266 22 266.5 |  |
| 51 52 53 54 55 |  |  | 8 372 8 372.5 8 373 8 373.5 8 374 | 12 447 12 447.5 12 448 12 448.5 12 449 | 16 644 16 644.5 16 645 16 645.5 16 646 | 22 267 22 267.5 22 268 22 268.5 22 269 |  |
| 56 57 58 59 60 |  |  | 8 374.5 8 375 8 375.5 8 376 | 12 449.5 12 450 12 450.5 12 451 12 451.5 | 16 646.5 16 647 16 647.5 16 648 16 648.5 | 22 269.5 22 270 22 270.5 22 271 22 271.5 |  |
| 61 62 63 64 65 |  |  |  | 12 452 12 452.5 12 453 12 453.5 12 454 | 16 649 16 649.5 16 650 16 650.5 16 651 | 22 272 22 272.5 22 273 22 273.5 22 274 |  |
| 66 67 68 69 70 |  |  |  | 12 454.5 12 455 12 455.5 12 456 12 456.5 | 16 651.5 16 652 16 652.5 16 653 16 653.5 | 22 274.5 22 275 22 275.5 22 276 22 276.5 |  |
| 71 72 73 74 75 |  |  |  | 12 457 12 457.5 12 458 12 458.5 12 459 | 16 654 16 654.5 16 655 16 655.5 16 656 | 22 277 22 277.5 22 278 22 278.5 22 279 |  |
| 76 77 78 79 80 |  |  |  | 12 459.5 12 460 12 460.5 12 461 12 461.5 | 16 656.5 16 657 16 657.5 16 658 16 658.5 |  |  |
| 81 82 83 84 85 |  |  |  | 12 462 12 462.5 12 463 12 463.5 12 464 | 16 659 16 659.5 16 660 16 660.5 16 661 |  |  |
| 86 87 88 89 90 |  |  |  | 12 464.5 12 465 12 465.5 12 466 12 466.5 | 16 661.5 16 662 16 662.5 16 663 16 663.5 |  |  |
| 91 92 93 94 95 |  |  |  | 12 467 12 467.5 12 468 12 468.5 12 469 | 16 664 16 664.5 16 665 16 665.5 16 666 |  |  |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Frequency bands (*end*) | | | | | | | |
| Channel No. | 4 MHz | 6 MHz | 8 MHz | 12 MHz | 16 MHz | 22 MHz | 25/26 MHz |
| 96  97  98  99 100 |  |  |  | 12 469.5 12 470 12 470.5 12 471 12 471.5 | 16 666.5 16 667 16 667.5 16 668 16 668.5 |  |  |
| 101 102 103 104 105 |  |  |  | 12 472 12 472.5 12 473 12 473.5 12 474 | 16 669 16 669.5 16 670 16 670.5 16 671 |  |  |
| 106 107 108 109 110 |  |  |  | 12 474.5 12 475 12 475.5 12 476 12 476.5 | 16 671.5 16 672 16 672.5 16 673 16 673.5 |  |  |
| 111 112 113 114 115 |  |  |  |  | 16 674 16 674.5 16 675 16 675.5 16 676 |  |  |
| 116 117 118 119 120 |  |  |  |  | 16 676.5 16 677 16 677.5 16 678 16 678.5 |  |  |
| 121 122 123 124 125 |  |  |  |  | 16 679 16 679.5 16 680 16 680.5 16 681 |  |  |
| 126 127 128 129 |  |  |  |  | 16 681.5 16 682 16 682.5 16 683 |  |  |

1. 1 Within the non-shaded boxes. [↑](#footnote-ref-1)