

GENERAL PURPOSE DSC
[In kHz unless otherwise noted]

Worldwide		Series A		Series B	
Ship	Coast	Ship	Coast	Ship	Coast
458.5	455.5	.....	.....	.....	.....
2189.5	¹ 2177.0	.....	.....	.....	.....
4208.0	4219.5	4208.5	4220.0	4209.0	4220.5
6312.5	6331.0	6313.0	6313.5	6313.5	6332.0
8415.0	8436.5	8415.5	8437.0	8416.0	8437.5
12577.5	12657.0	12578.0	12657.5	12578.5	12658.0
16805.0	16903.0	16805.5	16903.5	16806.0	16904.0
18898.5	19703.5	18899.0	19704.0	18899.5	19704.5
22374.5	22444.0	22375.0	22444.5	22375.5	22445.0
25208.5	26121.0	25209.0	26121.5	25209.5	26122.0
² 156.525	² 156.525	.....	.....	.....	.....

¹ The frequency 2177.0 kHz is also available to ship stations for intership calling and acknowledgement of such calls only.
² MHz.

(b) *Distress and safety calling.* The frequencies 2187.5 kHz, 4207.5 kHz, 6312.0 kHz, 8414.5 kHz, 12577.0 kHz, 16804.5 kHz and 156.525 MHz may be used for DSC by coast and ship stations on a simplex basis for distress and safety purposes. The provisions and procedures for distress and safety calling are contained in ITU-R Recommendation M.541-8, "Operational Procedures for the Use of Digital Selective-Calling Equipment in the Maritime Mobile Service," with Annexes, 1997, as modified by §80.103(c). ITU-R Recommendation M.541-8 with Annexes is incorporated by reference. The Director of the Federal Register approves this incorporation by reference in accordance with 5 U.S.C. 552(a) and 1 CFR Part 51. Copies of this standard can be inspected at the Federal Communications Commission, 445 12th Street, SW., Washington, DC (Reference Information Center) or at the National Archives and Records Administration (NARA). For information on the availability of this material at NARA, call 202-741-6030, or go to: http://www.archives.gov/federal_register/code_of_federal_regulations/ibr_locations.html. The ITU-R Rec-

ommendation can be purchased from the International Telecommunication Union (ITU), Place des Nations, CH-1211 Geneva 20, Switzerland.

(c) *Working frequencies.* Coast and ship stations may use DSC techniques for general calling purposes on their assigned working frequencies in the 2000-27500 kHz band and on those frequencies in the 156-162 MHz band which are allocated for maritime control, commercial, non-commercial and public correspondence communications.

[51 FR 31213, Sept. 2, 1986, as amended at 54 FR 49995, Dec. 4, 1989; 56 FR 9890, Mar. 8, 1991; 56 FR 14150, Apr. 5, 1991; 68 FR 46969, Aug. 7, 2003]

§ 80.361 Frequencies for narrow-band direct-printing (NBDP), radioprinter and data transmissions.

(a) *Paired channels.* The following frequencies are available for assignment to public coast stations for narrow-band direct-printing (NBDP) and data transmissions. The paired ship frequencies are available for use by authorized ship stations for NBDP and data transmissions.

Ch. no.	Paired frequencies for NBDP and data transmissions (kHz)															
	4 MHz		6 MHz		8 MHz		12 MHz		16 MHz		18/19 MHz		22 MHz		25/26 MHz	
	Coast	Ship	Coast	Ship	Coast	Ship	Coast	Ship	Coast	Ship	Coast	Ship	Coast	Ship	Coast	Ship
1	4210.5	4172.5	6314.5	6263.0			12579.5	12477.0	16807.0	16683.5	19681.0	18870.5	22376.5	22284.5	26101.0	25173.0
2	4211.0	4173.0	6315.0	6263.5	8417.0	8377.0	12580.0	12477.5	16807.5	16684.0	19681.5	18871.0	22377.0	22285.0	26101.5	25173.5
3	4211.5	4173.5	6315.5	6264.0	8417.5	8377.5	12580.5	12478.0	16808.0	16684.5	19682.0	18871.5	22377.5	22285.5	26102.0	25174.0
4	4212.0	4174.0	6316.0	6264.5	8418.0	8378.0	12581.0	12478.5	16808.5	16685.0	19682.5	18872.0	22378.0	22286.0	26102.5	25174.5
5	4212.5	4174.5	6316.5	6265.0	8418.5	8378.5	12581.5	12479.0	16809.0	16685.5	19683.0	18872.5	22378.5	22286.5	26103.0	25175.0
6	4213.0	4175.0	6317.0	6265.5	8419.0	8379.0	12582.0	12479.5	16809.5	16686.0	19683.5	18873.0	22379.0	22287.0	26103.5	25175.5
7	4213.5	4175.5	6317.5	6266.0	8419.5	8379.5	12582.5	12480.0	16810.0	16686.5	19684.0	18873.5	22379.5	22287.5	26104.0	25176.0
8	4214.0	4176.0	6318.0	6266.5	8420.0	8380.0	12583.0	12480.5	16810.5	16687.0	19684.5	18874.0	22380.0	22288.0	26104.5	25176.5
9	4214.5	4176.5	6318.5	6267.0	8420.5	8380.5	12583.5	12481.0	16811.0	16687.5	19685.0	18874.5	22380.5	22288.5	26105.0	25177.0
10	4215.0	4177.0	6319.0	6267.5	8421.0	8381.0	12584.0	12481.5	16811.5	16688.0	19685.5	18875.0	22381.0	22289.0	26105.5	25177.5
11					8421.5	8381.5	12584.5	12482.0	16812.0	16688.5	19686.0	18875.5	22381.5	22289.5	26106.0	25178.0
12	4215.5	4178.0	6319.5	6268.5	8422.0	8382.0	12585.0	12482.5	16812.5	16689.0	19686.5	18876.0	22382.0	22290.0	26106.5	25178.5
13	4216.0	4178.5	6320.0	6269.0	8422.5	8382.5	12585.5	12483.0	16813.0	16689.5	19687.0	18876.5	22382.5	22290.5	26107.0	25179.0
14	4216.5	4179.0	6320.5	6269.5	8423.0	8383.0	12586.0	12483.5	16813.5	16690.0	19687.5	18877.0	22383.0	22291.0	26107.5	25179.5
15	4217.0	4179.5	6321.0	6270.0	8423.5	8383.5	12586.5	12484.0	16814.0	16690.5	19688.0	18877.5	22383.5	22291.5	26108.0	25180.0
16	4217.5	4180.0	6321.5	6270.5	8424.0	8384.0	12587.0	12484.5	16814.5	16691.0	19688.5	18878.0	22384.0	22292.0	26108.5	25180.5
17	4218.0	4180.5	6322.0	6271.0	8424.5	8384.5	12587.5	12485.0	16815.0	16691.5	19689.0	18878.5	22384.5	22292.5	26109.0	25181.0
18			6322.5	6271.5	8425.0	8385.0	12588.0	12485.5	16815.5	16692.0	19689.5	18879.0	22385.0	22293.0	26109.5	25181.5
19			6323.0	6272.0	8425.5	8385.5	12588.5	12486.0	16816.0	16692.5	19690.0	18879.5	22385.5	22293.5	26110.0	25182.0
20			6323.5	6272.5	8426.0	8386.0	12589.0	12486.5	16816.5	16693.0	19690.5	18880.0	22386.0	22294.0	26110.5	25182.5
21			6324.0	6273.0	8426.5	8386.5	12589.5	12487.0	16817.0	16693.5	19691.0	18880.5	22386.5	22294.5		
22			6324.5	6273.5	8427.0	8387.0	12590.0	12487.5	16817.5	16694.0	19691.5	18881.0	22387.0	22295.0		
23			6325.0	6274.0	8427.5	8387.5	12590.5	12488.0	16818.0	16694.5			22387.5	22295.5		
24			6325.5	6274.5	8428.0	8388.0	12591.0	12488.5					22388.0	22296.0		
25			6326.0	6275.0	8428.5	8388.5	12591.5	12489.0	16818.5	16695.5			22388.5	22296.5		
26			6326.5	6275.5	8429.0	8389.0	12592.0	12489.5	16819.0	16696.0			22389.0	22297.0		
27			6327.0	6281.0	8429.5	8389.5	12592.5	12490.0	16819.5	16696.5			22389.5	22297.5		
28			6327.5	6281.5	8430.0	8390.0	12593.0	12490.5	16820.0	16697.0			22390.0	22298.0		
29			6328.0	6282.0	8430.5	8390.5	12593.5	12491.0	16820.5	16697.5			22390.5	22298.5		
30					8431.0	8391.0	12594.0	12491.5	16821.0	16698.0			22391.0	22299.0		
31					8431.5	8391.5	12594.5	12492.0	16821.5	16698.5			22391.5	22299.5		
32					8432.0	8392.0	12595.0	12492.5	16822.0	16699.0			22392.0	22300.0		
33					8432.5	8392.5	12595.5	12493.0	16822.5	16699.5			22392.5	22300.5		
34					8433.0	8393.0	12596.0	12493.5	16823.0	16700.0			22393.0	22301.0		
35							12596.5	12494.0	16823.5	16700.5			22393.5	22301.5		
36							12597.0	12494.5	16824.0	16701.0			22394.0	22302.0		
37							12597.5	12495.0	16824.5	16701.5			22394.5	22302.5		
38							12598.0	12495.5	16825.0	16702.0			22395.0	22303.0		
39							12598.5	12496.0	16825.5	16702.5			22395.5	22303.5		
40							12599.0	12496.5	16826.0	16703.0			22396.0	22304.0		
41							12599.5	12497.0	16826.5	16703.5			22396.5	22304.5		
42							12600.0	12497.5	16827.0	16704.0			22397.0	22305.0		
43							12600.5	12498.0	16827.5	16704.5			22397.5	22305.5		
44							12601.0	12498.5	16828.0	16705.0			22398.0	22306.0		
45							12601.5	12499.0	16828.5	16705.5			22398.5	22306.5		

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12602.0	12499.5	16829.0	16706.0
12602.5	12500.0	16829.5	16706.5
12603.0	12500.5	16830.0	16707.0
12603.5	12501.0	16830.5	16707.5
12604.0	12501.5	16831.0	16708.0
12604.5	12502.0	16831.5	16708.5
12605.0	12502.5	16832.0	16709.0
12605.5	12503.0	16832.5	16709.5
12606.0	12503.5	16833.0	16710.0
12606.5	12504.0	16833.5	16710.5
12607.0	12504.5	16834.0	16711.0
12607.5	12505.0	16834.5	16711.5
12608.0	12505.5	16835.0	16712.0
12608.5	12506.0	16835.5	16712.5
12609.0	12506.5	16836.0	16713.0
12609.5	12507.0	16836.5	16713.5
12610.0	12507.5	16837.0	16714.0
12610.5	12508.0	16837.5	16714.5
12611.0	12508.5	16838.0	16715.0
12611.5	12509.0	16838.5	16715.5
12612.0	12509.5	16839.0	16716.0
12612.5	12510.0	16839.5	16716.5
12613.0	12510.5	16400.0	16717.0
12613.5	12511.0	16400.5	16717.5
12614.0	12511.5	16411.0	16718.0
12614.5	12512.0	16841.5	16718.5
12615.0	12512.5	16842.0	16719.0
12615.5	12513.0	16842.5	16719.5
12616.0	12513.5	16843.0	16720.0
12616.5	12514.0	16843.5	16720.5
12617.0	12514.5	16844.0	16721.0
12617.5	12515.0	16844.5	16721.5
12618.0	12515.5	16845.0	16722.0
12618.5	12516.0	16845.5	16722.5
12619.0	12516.5	16846.0	16723.0
12619.5	12517.0	16846.5	16723.5
12620.0	12517.5	16847.0	16724.0
12620.5	12518.0	16847.5	16724.5
12621.0	12518.5	16848.0	16725.0
12621.5	12519.0	16848.5	16725.5
12622.0	12519.5	16849.0	16726.0
		16849.5	16726.5
12622.5	12520.5	16850.0	16727.0
12623.0	12521.0	16850.5	16727.5
12623.5	12521.5	16851.0	16728.0
12624.0	12522.0	16851.5	16728.5
12624.5	12522.5	16852.0	16729.0
12625.0	12523.0	16852.5	16729.5
12625.5	12523.5	16853.0	16730.0
12626.0	12524.0	16853.5	16730.5

22399.0	22307.0
22399.5	22307.5
22400.0	22308.0
22400.5	22308.5
22401.0	22309.0
22401.5	22309.5
22402.0	22310.0
22402.5	22310.5
22403.0	22311.0
22403.5	22311.5
22404.0	22312.0
22404.5	22312.5
22405.0	22313.0
22405.5	22313.5
22406.0	22314.0
22406.5	22314.5
22407.0	22315.0
22407.5	22315.5
22408.0	22316.0
22408.5	22316.5
22409.0	22317.0
22409.5	22317.5
22410.0	22318.0
22410.5	22318.5
22411.0	22319.0
22411.5	22319.5
22412.0	22320.0
22412.5	22320.5
22413.0	22321.0
22413.5	22321.5
22414.0	22322.0
22414.5	22322.5
22415.0	22323.0
22415.5	22323.5
22416.0	22324.0
22416.5	22324.5
22417.0	22325.0
22417.5	22325.5
22418.0	22326.0
22418.5	22326.5
22419.0	22327.0
22419.5	22327.5
22420.0	22328.0
22420.5	22328.5
22421.0	22329.0
22421.5	22329.5
22422.0	22330.0
22422.5	22330.5
22423.0	22331.0
22423.5	22331.5

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Ch. no.	Paired frequencies for NBDP and data transmissions (kHz)															
	4 MHz		6 MHz		8 MHz		12 MHz		16 MHz		18/19 MHz		22 MHz		25/26 MHz	
	Coast	Ship	Coast	Ship	Coast	Ship	Coast	Ship	Coast	Ship	Coast	Ship	Coast	Ship	Coast	Ship
96							12626.5	12524.5	16854.0	16731.0			22424.0	22332.0		
97							12627.0	12525.0	16854.5	16731.5			22424.5	22332.5		
98							12627.5	12525.5	16855.0	16732.0			22425.0	22333.0		
99							12628.0	12526.0	16855.5	16732.5			22425.5	22333.5		
100							12628.5	12526.5	16856.0	16733.0			22426.0	22334.0		
101							12629.0	12527.0	16856.5	16733.5			22426.5	22334.5		
102							12629.5	12527.5	16857.0	16739.0						
103							12630.0	12528.0	16857.5	16739.5						
104							12630.5	12528.5	16858.0	16740.0						
105							12631.0	12529.0	16858.5	16740.5						
106							12631.5	12529.5	16859.0	16741.0						
107							12632.0	12530.0	16859.5	16741.5						
108									16860.0	16742.0						
109									16860.5	16742.5						
110									16861.0	16743.0						
111									16861.5	16743.5						
112									16862.0	16744.0						
113									16862.5	16744.5						
114									16863.0	16745.0						
115									16863.5	16745.5						
116									16864.0	16746.0						
117									16864.5	16746.5						
118									16865.0	16747.0						
119									16865.5	16747.5						
120									16866.0	16748.0						
121									16866.5	16748.5						
122									16867.0	16749.0						
123									16867.5	16749.5						
124									16868.0	16750.0						
125									16868.5	16750.5						
126									16869.0	16751.0						
127									16869.5	16751.5						
128									16870.0	16752.0						
129									16870.5	16752.5						
130									16871.0	16753.0						
131									16871.5	16753.5						
132									16872.0	16754.0						

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(b) The following table describes the frequencies and Channel Series with F1B, J2B, or J2D emission which are assignable to ship stations for NBDP

and data transmissions with other ship stations and public coast stations. Public coast stations may receive only on these frequencies.

NON-PAIRED NBDP CHANNELS (kHz)

Channel series:								
1	4202.5	6300.5	8396.5	12560.0	16785.0	18893.0	22352.0	25193.0
2	4203.0	6301.0	8397.0	12560.5	16785.5	18893.5	22352.5	25193.5
3	4203.5	6301.5	8397.5	12561.0	16786.0	18894.0	22353.0	25194.0
4	4204.0	6302.0	8398.0	12561.5	16786.5	18894.5	22353.5	25194.5
5	4204.5	6302.5	8398.5	12562.0	16787.0	18895.0	22354.0	25195.0
6	4205.0	6303.0	8399.0	12562.5	16787.5	18895.5	22354.5	25195.5
7	4205.5	6303.5	8399.5	12563.0	16788.0	18896.0	22355.0	25196.0
8	4206.0	6304.0	8400.0	12563.5	16788.5	18896.5	22355.5	25196.5
9	4206.5	6304.5	8400.5	12564.0	16789.0	18897.0	22356.0	25197.0
10	4207.0	6305.0	8401.0	12564.5	16789.5	18897.5	22356.5	25197.5
11		6305.5	8401.5	12565.0	16790.0	18898.0	22357.0	25198.0
12		6306.0	8402.0	12565.5	16790.5		22357.5	25198.5
13		6306.5	8402.5	12566.0	16791.0		22358.0	25199.0
14		6307.0	8403.0	12566.5	16791.5		22358.5	25199.5
15		6307.5	8403.5	12567.0	16792.0		22359.0	25200.0
16		6308.0	8404.0	12567.5	16792.5		22359.5	25200.5
17		6308.5	8404.5	12568.0	16793.0		22360.0	25201.0
18		6309.0	8405.0	12568.5	16793.5		22360.5	25201.5
19		6309.5	8405.5	12569.0	16794.0		22361.0	25202.0
20		6310.0	8406.0	12569.5	16794.5		22361.5	25202.5
21		6310.5	8406.5	12570.0	16795.0		22362.0	25203.0
22		6311.0	8407.0	12570.5	16795.5		22362.5	25203.5
23		6311.5	8407.5	12571.0	16796.0		22363.0	25204.0
24			8408.0	12571.5	16796.5		22363.5	25204.5
25			8408.5	12572.0	16797.0		22364.0	25205.0
26			8409.0	12572.5	16797.5		22364.5	25205.5
27			8409.5	12573.0	16798.0		22365.0	25206.0
28			8410.0	12573.5	16798.5		22365.5	25206.5
29			8410.5	12574.0	16799.0		22366.0	25207.0
30			8411.0	12574.5	16799.5		22366.5	25207.5
31			8411.5	12575.0	16800.0		22367.0	25208.0
32			8412.0	12575.5	16800.5		22367.5	
33			8412.5	12576.0	16801.0		22368.0	
34			8413.0	12576.5	16801.5		22368.5	
35			8413.5		16802.0		22369.0	
36			8414.0		16802.5		22369.5	
37					16803.0		22370.0	
38					16803.5		22370.5	
39					16804.0		22371.0	
40							22371.5	
41							22372.0	
42							22372.5	
43							22373.0	
44							22373.5	
45							22374.0	

(c) *Distress and calling.* The frequencies 2174.5 kHz, 4177.5 kHz, 6268.0 kHz, 8376.5 kHz, 12520.0 kHz, and 16695.0 kHz may be used for NBDP and data transmissions by coast and ship stations on a simplex basis for distress and safety purposes.

(d) The frequencies in the 156-162 MHz band available for assignment to public coast stations that are contained in §80.371(c) of this part are also available for radioprinter and data communications between ship and

coast stations using F1B, F2B, F1D, or F2D emission.

[51 FR 31213, Sept. 2, 1986, as amended at 56 FR 9890, Mar. 8, 1991; 57 FR 43407, Sept. 21, 1992; 58 FR 16504, Mar. 29, 1993; 68 FR 46969, Aug. 7, 2003]

§ 80.363 Frequencies for facsimile.

(a) The non-paired frequencies with F1C, F3C, J2C or J3C emission which are assignable to ship and public coast stations for facsimile are as follows:

(1) *Ship station frequencies.* The following frequencies are available for use