Radiocommunications – Maritime Omnibus Variation 2019 (No.1)

The Australian Communications and Media Authority makes this instrument under subsection 64(1) of the *Australian Communications and Media Authority Act 2005* and paragraph 107(1)(f) and subsection 132(1) of the *Radiocommunications Act 1992*.

Dated: 13 June 2019

Nerida O'Loughlin
[signed]
Member

Chris Jose
[signed]
Member/~~General Manager~~

Australian Communications and Media Authority

1 Name

This is the *Radiocommunications – Maritime Omnibus Variation 2019 (No.1)*.

2 Commencement

This instrument commences at the start of the day after it is registered on the Federal Register of Legislation.

Note: The Federal Register of Legislation may be accessed at www.legislation.gov.au.

3 Authority

This instrument is made under subsection 64(1) of the *Australian Communications and Media Authority Act 2005* and paragraph 107(1)(f) and subsection 132(1) of the *Radiocommunications Act 1992*.

4 Amendments – *Radiocommunications (Interpretation) Determination 2015* [F2015L00178]

The instrument that is specified in Schedule 1 is amended as set out in the items in that Schedule.

5 Amendments – *Radiocommunications Licence Conditions (Maritime Coast Licence) Determination 2015* [F2018L01619]

The instrument that is specified in Schedule 2 is amended as set out in the items in that Schedule.

6 Amendments – *Radiocommunications Licence Conditions (Maritime Ship Licence) Determination 2015* [F2018L01619]

The instrument that is specified in Schedule 3 is amended as set out in the items in that Schedule.

7 Variations – *Radiocommunications (Maritime Ship Station – 27 MHz and VHF) Class Licence 2015* [F2018L01619]

The instrument that is specified in Schedule 4 is varied as set out in the items in that Schedule.

8 References to other instruments

In this instrument, unless the contrary intention appears:

(a) a reference to any other legislative instrument is a reference to that other legislative instrument as in force from time to time; and

(b) a reference to any other kind of instrument is a reference to that other instrument as in force or existing from time to time.

Note 1: For references to Commonwealth Acts, see section 10 of the *Acts Interpretation Act 1901*; and see also subsection 13(1) of the *Legislation Act 2003* for the application of the *Acts Interpretation Act 1901* to legislative instruments.

Note 2: All Commonwealth Acts and legislative instruments are registered on the Federal Register of Legislation.

Note 3: For paragraph (b), see subsection 314A(2) of the Act and subsection 65(1) of the *Australian Communications and Media Authority Act 2005*.

Schedule 1 – Amendments

(section 4)

Radiocommunications (Interpretation) Determination 2015 [F2015L00178]

1 Schedule 1, after the definition of *ambulatory system station*

Insert:

Application Specific Messages (ASM) means messages developed to allow for added functionality in the exchange of information using the Automatic Identification System (AIS) that are in addition to the standard set of AIS messages.

2 Schedule 1 (definition of *Automatic Identification System (AIS)*)

Repeal the definition, substitute:

Automatic Identification System (AIS) means a system that uses automatic tracking technology in the VHF maritime mobile band.

3 Schedule 1, after the definition of *very high frequency*, and *VHF*

Insert:

VHF Data Exchange means radiocommunications using digital modulation in the VHF maritime mobile band.

VHF Data Exchange System (VDES) means a system that integrates the functions of Application Specific Messages (ASM) and the Automatic Identification System (AIS) and VHF Data Exchange in the VHF maritime mobile band.

VHF maritime mobile band means the frequency range 156.000 MHz to 162.050 MHz, but does not include the segments within this frequency range that are allocated to the land mobile service in accordance with Table 2 of the Radiocommunications Assignment and Licensing Instruction (RALI) MS 42, *Frequency Plan for the VHF Bands 70 - 87.5 MHz and 148 - 174 MHz*, published by the ACMA, as existing from time to time.

Note: RALI MS 42 is available on the ACMA website at www.acma.gov.au.

Schedule 2 – Amendments

(section 5)

Radiocommunications Licence Conditions (Maritime Coast Licence) Determination 2015 [F2018L01619]

1 Subsection 1.4(1) (definition of *ACA*)

Repeal the definition.

2 Subsection 1.4(3) (note 2)

Repeal the note, substitute:

Note 2: All Commonwealth Acts and legislative instruments are available on the Federal Register of Legislation website at www.legislation.gov.au.

3 Paragraphs 3.4(1)(a) and 4.6(1)(a)

Omit "issued by the ACA" (wherever occurring), substitute "issued by the ACMA".

4 Part 2 of Schedule 1 (table item 201)

Repeal the item.

5 Schedules 2, 3, 4, 5, and 7 (note 2)

Repeal the note, substitute:

Note 2: The HF frequencies in this Schedule are those prescribed in Appendix 17 (REV. WRC-15) of the ITU Radio Regulations.

6 Schedule 2 (table item 20)

Omit "Distress, urgency, safety or calling", substitute:

Distress, urgency and safety
Calling

7 Schedule 3 (table item 15)

Omit "400 watts pX", substitute "83 watts EIRP".

8 Schedule 6 (table)

Repeal the table, substitute:

Item	Carrier frequency *(Channel number)*	Maximum transmitter output power
1	156.425 MHz (*68*)	83 watts EIRP
2	156.450 MHz (*09*)	83 watts EIRP
3	156.500 MHz (*10*)	83 watts EIRP
4	156.550 MHz (*11*)	83 watts EIRP
5	156.600 MHz (*12*)	83 watts EIRP
6	156.650 MHz (*13*)	83 watts EIRP
7	156.700 MHz (*14*)	83 watts EIRP
8	156.950 MHz (*1019*)	83 watts EIRP
9	160.825 MHz Tx / 156.225 MHz Rx *(64)*	83 watts EIRP
10	160.875 MHz Tx / 156.275 MHz Rx *(65)*	83 watts EIRP
11	161.500 MHz Tx / 156.900 MHz Rx (*18*)	83 watts EIRP
12	161.550 MHz (*2019*)	83 watts EIRP
13	161.575 MHz Tx / 156.975 MHz Rx (*79*)	83 watts EIRP
14	161.600 MHz Tx / 157.000 MHz Rx (*20*)	83 watts EIRP

Schedule 3 – Amendments

(section 6)

Radiocommunications Licence Conditions (Maritime Ship Licence) Determination 2015 [F2018L01619]

1 Section 2.7

Repeal the section, substitute:

2.7 Maritime ship stations — AIS

A person must operate a maritime ship station for Automatic Identification System (AIS) purposes only:

(a) on a frequency mentioned in column 2 of an item in Part 11 of Schedule 2; and

(b) using a transmitter output power not exceeding the power mentioned in column 3 of the item; and

(c) for a purpose mentioned in column 4 of the item.

2 After section 2.7

Insert:

2.8 Maritime ship stations — VDES communications

A person must operate a maritime ship station for VHF Data Exchange System (VDES) communications only:

(a) on a frequency mentioned in column 2 of an item in Part 12 of Schedule 2; and

(b) using a transmitter output power not exceeding the power mentioned in column 3 of the item.

2.9 Maritime ship stations — ASM

A person must operate a maritime ship station for Application Specific Messages (ASM) purposes only:

(a) on a frequency mentioned in column 2 of an item in Part 13 of Schedule 2; and

(b) using a transmitter output power not exceeding the power mentioned in column 3 of the item.

3 After section 3.13

Insert:

3.14 VHF Data Exchange System (VDES) — ship station Class B non assigned

If a licensee operates a ship station Class B non assigned for VHF Data Exchange System (VDES) communications, the licensee must operate the station:

(a) on a frequency mentioned in column 2 of an item in Part 12 of Schedule 2; and

(b) using a transmitter output power not exceeding the power mentioned in column 3 of the item.

3.15 Application Specific Messages (ASM) — ship station Class B non assigned

If a licensee operates a ship station Class B non assigned for Application Specific Messages (ASM) purposes, the licensee must operate the station:

(a) on a frequency mentioned in column 2 of an item in Part 13 of Schedule 2; and

(b) using a transmitter output power not exceeding the power mentioned in column 3 of the item.

4 After section 5.12A

Insert:

5.12B VHF Data Exchange System (VDES) — ship station Class C non assigned

If a licensee operates a ship station Class C non assigned for VHF Data Exchange System (VDES) communications, the licensee must operate the station:

(a) on a frequency mentioned in column 2 of an item in Part 12 of Schedule 2; and

(b) using a transmitter output power not exceeding the power mentioned in column 3 of the item.

5.12C Application Specific Messages (ASM) — ship station Class C non assigned

If a licensee operates a ship station Class C non assigned for Application Specific Messages (ASM) purposes, the licensee must operate the station:

(a) on a frequency mentioned in column 2 of an item in Part 13 of Schedule 2; and

(b) using a transmitter output power not exceeding the power mentioned in column 3 of the item.

5 After the heading to Schedule 2 (before note 1)

before "3.3", insert "2.8, 2.9,";

after "3.13,", insert "3.14, 3.15,";

repeal "5.12A", substitute, "5.12A, 5.12B and 5.12C".

6 Schedule 2 (note 2 to Schedule heading)

Repeal the note, substitute:

Note 2: The HF frequencies in this Schedule are those prescribed in Appendix 17 (REV. WRC-15) of the ITU Radio Regulations.

7 Part 2 of Schedule 2 (table item 214, first column)

Omit "(AIS-SART AIS2", substitute:

(AIS-SART

AIS 2)

8 Part 3 of Schedule 2 (table items 342 to 356)

Repeal the items, substitute:

343	156.250 MHz Tx 160.850 MHz Rx *(05)*	25 watts pY	25 watts pY	MCS	Radiotelephony
345	156.325 MHz Tx 160.925 MHz Rx *(66)*	25 watts pY	25 watts pY	MCS	Radiotelephony
346	156.350 MHz Tx 160.950 MHz Rx *(07)*	25 watts pY	25 watts pY	MCS	Radiotelephony
347	157.075 MHz Tx 161.675 MHz Rx *(81)*	25 watts pY	25 watts pY	MCS	Radiotelephony
348	157.150 MHz Tx 161.750 MHz Rx *(23)*	25 watts pY	25 watts pY	MCS	Radiotelephony
349	157.175 MHz Tx 161.775 MHz Rx *(83)*	25 watts pY	25 watts pY	MCS	Radiotelephony
350	1625.5 MHz–1647.5 MHz Tx 1525.0 MHz–1545.0 MHz Rx	Terminal type C: 12 dBW EIRP Terminal type A: 37 dBW EIRP Terminal type M: 29 dBW EIRP Terminal type B: 33 dBW EIRP	Terminal type C: 12 dBW EIRP Terminal type A: 37 dBW EIRP Terminal type M: 29 dBW EIRP Terminal type B: 33 dBW EIRP	Earth station	Inmarsat *(The licensee must give priority to the reception of distress, urgency and safety messages over public correspondence)*

9 Part 5 of Schedule 2 (table items 510 to 514)

Repeal the items, substitute:

510	156.400 MHz *(08)*	25 watts pY	Maritime ship stations	Calling and working
511	156.625 MHz *(72)*	25 watts pY	Maritime ship stations	Calling and working
512	156.725 MHz *(74)*	25 watts pY	LCS Maritime ship stations	Calling and working
513	156.750 MHz *(15)*	1 watt pY	Maritime ship stations	Calling and working
514	156.925 MHz Tx 161.525 MHz Rx *(78)*	25 watts pY	LCS	Calling and working
515	157.850 MHz *(17)*	1 watt pY	Maritime ship stations	Calling and working

10 Part 7 of Schedule 2 (table)

Repeal the table, substitute:

Part 7 Port operations

Item	Carrier frequency *(Channel number)*	Maximum transmitter output power	Stations with which licensee may communicate	Purpose
701	156.225 MHz Tx 160.825 MHz Rx *(64)*	25 watts pY	LCS Maritime ship stations	Working
702	156.275 MHz Tx 160.875 MHz Rx *(65)*	25 watts pY	LCS Maritime ship stations	Working
703	156.400 MHz *(08)*	25 watts pY	Maritime ship stations	Calling and working
704	156.425 MHz *(68)*	25 watts pY	LCS	Calling and working
705	156.450 MHz *(09)*	25 watts pY	LCS Maritime ship stations	Calling and working
706	156.500 MHz *(10)*	25 watts pY	LCS Maritime ship stations	Calling and working
707	156.550 MHz *(11)*	25 watts pY	LCS	Calling and working
708	156.600 MHz *(12)*	25 watts pY	LCS	Calling and working

Item	Carrier frequency *(Channel number)*	Maximum transmitter output power	Stations with which licensee may communicate	Purpose
709	156.625 MHz *(72)*	25 watts pY	Maritime ship stations	Calling and working
710	156.650 MHz *(13)*	25 watts pY	LCS Maritime ship stations	Calling and working
711	156.700 MHz *(14)*	25 watts pY	LCS	Calling and working
712	156.900 MHz Tx 161.500 MHz Rx *(18)*	25 watts pY	LCS Maritime ship stations	Calling and working
713	156.950 MHz *(1019)*	25 watts pY	LCS Maritime ship stations	Calling and working
714	156.975 MHz Tx 161.575 MHz Rx *(79)*	25 watts pY	LCS	Calling and working
715	157.000 MHz Tx 161.600 MHz Rx *(20)*	25 watts pY	LCS	Calling and working
716	157.350 MHz *(1027)*	25 watts pY	LCS Maritime ship stations	Calling and working
717	157.375 MHz *(87)*	25 watts pY	LCS	Calling and working
718	157.400 MHz *(1028)*	25 watts pY	LCS Maritime ship stations	Calling and working
719	157.425 MHz *(88)*	25 watts pY	LCS	Calling and working

11 Part 8 of Schedule 2 (table item 807, sixth column)

Omit “Calling and working”, substitute “Working”.

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12 Part 11 of Schedule 2 (table)

Repeal the table, substitute:

Part 11 Automatic Identification System (AIS)

Column 1 Item	Column 2 Carrier frequency *(Channel number)*	Column 3 Maximum transmitter output power	Column 4 Purpose
1101	156.775 MHz *(75)*	12.5 watts pY	AIS Satellite (ship-satellite)
1102	156.825 MHz *(76)*	12.5 watts pY	AIS Satellite (ship-satellite)
1103	161.975 MHz *(AIS 1)*	12.5 watts pY	AIS
1104	162.025 MHz *(AIS 2)*	12.5 watts pY	AIS
Channels 75 and 76 may also be used for the purpose of navigation-related communications in accordance with Appendix 18 (REV. WRC-15) of the ITU Radio Regulations.			

13 After Part 11 of Schedule 2

Insert:

Part 12 VHF Data Exchange System (VDES)

Column 1 Item	Column 2 Frequency band *(Channel number)*	Column 3 Maximum transmitter output power
1201	157.200 MHz Tx 161.800 MHz Rx *(24)*	25 watts pY
1202	157.225 MHz Tx 161.825 MHz Rx *(84)*	25 watts pY
1203	157.250 MHz Tx 161.850 MHz Rx *(25)*	25 watts pY
1204	157.275 MHz Tx 161.875 MHz Rx *(85)*	25 watts pY
1205	157.300 MHz *(1026)* 157.325 MHz	25 watts pY

Column 1 Item	Column 2 Frequency band *(Channel number)*	Column 3 Maximum transmitter output power
	(1086) 161.900 MHz *(2026)* 161.925 MHz *(2086)*	

Channels 24, 84, 25 and 85 may be merged in order to form a unique duplex channel with a bandwidth of 100 kHz in order to operate the VDES terrestrial component described in the most recent version of *Recommendation ITU-R M.2092* (WRC-15) of the ITU.

Part 13 Application Specific Messages (ASM)

Column 1 Item	Column 2 Frequency band *(Channel number)*	Column 3 Maximum transmitter output power
1301	161.950 MHz *(ASM 1)*	25 watts pY
1302	162.000 MHz *(ASM 2)*	25 watts pY

14 Schedule 4 (note 2 to Schedule heading)

Repeal the note, substitute:

Note 2: The HF frequencies in this Schedule are those prescribed in Appendix 17 (REV. WRC-15) of the ITU Radio Regulations.

15 Part 2 of Schedule 4 (table item 203)

Repeal the item.

Schedule 4 – Variations

(section 7)

Radiocommunications (Maritime Ship Station – 27 MHz and VHF) Class Licence 2015 [F2018L01619]

1 Subsection 4(1), after the definition of *Act*

Insert:

AMSA means the Australian Maritime Safety Authority established by the *Australian Maritime Safety Authority Act 1990*.

2 Subsection 4(1) (definition of *VHF maritime frequencies*)

Repeal the definition, substitute:

VHF maritime frequencies means the frequency range 156.000 MHz to 162.050 MHz, but does not include the segments within this frequency range that are allocated to the land mobile service in accordance with Table 2 of the Radiocommunications Assignment and Licensing Instruction (RALI) MS 42, *Frequency Plan for the VHF Bands 70 - 87.5 MHz and 148 - 174 MHz*, published by the ACMA, as existing from time to time.

Note: RALI MS 42 is available on the ACMA website at www.acma.gov.au.

3 Subsection 4(2) (notes at the end)

Repeal the notes, substitute:

Note 1 For references to Commonwealth Acts, see section 10 of the *Acts Interpretation Act 1901*; and see also subsection 13(1) of the *Legislation Act 2003* for the application of the *Acts Interpretation Act 1901* to legislative instruments.

Note 2 All Commonwealth Acts and legislative instruments are available on the Federal Register of Legislation website at www.legislation.gov.au.

Note 3: For paragraph (b), see section 314A of the Act.

4 Paragraph 8(2)(g)

Repeal the paragraph, substitute:

(g) qualifications recognised by:
  (i) AMSA as being equivalent to the qualification mentioned in paragraph (a); or
  (ii) the ACMA as being equivalent to any of the qualifications mentioned in paragraphs (b) to (f).

5 Subsection 8(3), after note 2

Insert:

Note 3 Equivalent qualifications and licences recognised by the ACMA and AMSA are listed in the Tables of Equivalent Qualifications and Licences, as existing from time to time, available on the ACMA website at www.acma.gov.au.

6 Subsection 9(2)

After "in the version current from time to time", omit "of the", substitute "of its".

7 Section 19

Repeal the section, substitute:

19 Maritime ship stations — AIS

A person must operate a maritime ship station for Automatic Identification System (AIS) purposes only:

(a) on a frequency mentioned in column 2 of an item in Part 2.10 of Schedule 2; and

(b) using a transmitter output power not exceeding the power mentioned in column 3 of the item; and

(c) for a purpose mentioned in column 4 of the item.

8 After section 19

Insert:

20 Maritime ship stations — VDES communications

A person must operate a maritime ship station for VHF Data Exchange System (VDES) communications only:

(a) on a frequency mentioned in column 2 of an item in Part 2.11 of Schedule 2; and

(b) using a transmitter output power not exceeding the power mentioned in column 3 of the item.

21 Maritime ship stations — ASM

A person must operate a maritime ship station for Application Specific Messages (ASM) purposes only:

(a) on a frequency mentioned in column 2 of an item in Part 2.12 of Schedule 2; and

(b) using a transmitter output power not exceeding the power mentioned in column 3 of the item.

9 Part 2.1 of Schedule 2 (note)

Repeal the note, substitute:

Note The HF frequencies in this Schedule are those prescribed in Appendix 17 (REV. WRC-15) of the International Telecommunication Union Radio Regulations.

10 Part 2.3 of Schedule 2 (table)

Repeal the table, substitute:

Part 2.3 Public correspondence

Column 1 Item	Column 2 Frequency *(Channel number)*	Column 3 Maximum transmitter output power	Column 4 Stations with which person may communicate
1	156.025 MHz Tx 160.625 MHz Rx *(60)*	25 watts pY	MCS
2	156.050 MHz Tx 160.650 MHz Rx *(01)*	25 watts pY	MCS
3	156.075 MHz Tx 160.675 MHz Rx *(61)*	25 watts pY	MCS
4	156.100 MHz Tx 160.700 MHz Rx *(02)*	25 watts pY	MCS
5	156.125 MHz Tx 160.725 MHz Rx *(62)*	25 watts pY	MCS
6	156.150 MHz Tx 160.750 MHz Rx *(03)*	25 watts pY	MCS
7	156.175 MHz Tx 160.775 MHz Rx *(63)*	25 watts pY	MCS
8	156.200 MHz Tx 160.800 MHz Rx *(04)*	25 watts pY	MCS
10	156.250 MHz Tx 160.850 MHz Rx *(05)*	25 watts pY	MCS
12	156.325 MHz Tx 160.925 MHz Rx *(66)*	25 watts pY	MCS
13	156.350 MHz Tx 160.950 MHz Rx *(07)*	25 watts pY	MCS

Column 1 Item	Column 2 Frequency *(Channel number)*	Column 3 Maximum transmitter output power	Column 4 Stations with which person may communicate
14	157.075 MHz Tx 161.675 MHz Rx *(81)*	25 watts pY	MCS
15	157.150 MHz Tx 161.750 MHz Rx *(23)*	25 watts pY	MCS
16	157.175 MHz Tx 161.775 MHz Rx *(83)*	25 watts pY	MCS

11 Part 2.4 of Schedule 2 (table)

Repeal the table, substitute:

Part 2.4 Commercial operations

Column 1 Item	Column 2 Frequency *(Channel number)*	Column 3 Maximum transmitter output power	Column 4 Stations with which person may communicate	Column 5 Purpose
1	27680 kHz *(68)*	4 watts pZ 12 watts pX	LCS Maritime ship stations	Calling and working
2	156.400 MHz *(08)*	25 watts pY	Maritime ship stations	Calling and working
3	156.625 MHz *(72)*	25 watts pY	Maritime ship stations	Calling and working
4	156.725 MHz *(74)*	25 watts pY	LCS Maritime ship stations	Calling and working
5	156.750 MHz *(15)*	1 watt pY	Maritime ship stations	Calling and working
6	156.925 MHz Tx 161.525 MHz Rx *(78)*	25 watts pY	LCS	Calling and working
7	157.850 MHz *(17)*	1 watt pY	Maritime ship stations	Calling and working

12 Part 2.6 of Schedule 2 (table)

Repeal the table, substitute:

Part 2.6 Port operations

Column 1 Item	Column 2 Frequency *(Channel number)*	Column 3 Maximum transmitter output power	Column 4 Stations with which person may communicate	Column 5 Purpose
1	156.225 MHz Tx 160.825 MHz Rx *(64)*	25 watts pY	LCS Maritime ship stations	Working
2	156.275 MHz Tx 160.875 MHz Rx *(65)*	25 watts pY	LCS Maritime ship stations	Working
3	156.400 MHz *(08)*	25 watts pY	Maritime ship stations	Calling and working
4	156.425 MHz *(68)*	25 watts pY	LCS	Calling and working
5	156.450 MHz *(09)*	25 watts pY	LCS Maritime ship stations	Calling and working
6	156.500 MHz *(10)*	25 watts pY	LCS Maritime ship stations	Calling and working
7	156.550 MHz *(11)*	25 watts pY	LCS	Calling and working
8	156.600 MHz *(12)*	25 watts pY	LCS	Calling and working
9	156.625 MHz *(72)*	25 watts pY	Maritime ship stations	Calling and working
10	156.650 MHz *(13)*	25 watts pY	LCS Maritime ship stations	Calling and working
11	156.700 MHz *(14)*	25 watts pY	LCS	Calling and working
12	156.900 MHz Tx 161.500 MHz Rx *(18)*	25 watts pY	LCS Maritime ship stations	Calling and working
13	156.950 MHz *(1019)*	25 watts pY	LCS Maritime ship statons	Calling and working

Column 1 Item	Column 2 Frequency *(Channel number)*	Column 3 Maximum transmitter output power	Column 4 Stations with which person may communicate	Column 5 Purpose
14	156.975 MHz Tx 161.575 MHz Rx *(79)*	25 watts pY	LCS	Calling and working
15	157.000 MHz Tx 161.600 MHz Rx *(20)*	25 watts pY	LCS	Calling and working
16	157.350 MHz *(1027)*	25 watts pY	LCS Maritime ship stations	Calling and working
17	157.375 MHz *(87)*	25 watts pY	LCS	Calling and working
18	157.400 MHz *(1028)*	25 watts pY	LCS Maritime ship stations	Calling and working
19	157.425 MHz *(88)*	25 watts pY	LCS	Calling and working

13 Part 2.7 of Schedule 2 (table item 3, column 5)

Omit "Calling and working", substitute "Working".

14 Part 2.10 of Schedule 2 (table)

Repeal the table, substitute:

Part 2.10 Automatic Identification System (AIS)

Column 1 Item	Column 2 Carrier frequency *(Channel number)*	Column 3 Maximum transmitter output power	Column 4 Purpose
1	156.775 MHz *(75)*	12.5 watts pY	AIS Satellite (ship-satellite)
2	156.825 MHz *(76)*	12.5 watts pY	AIS Satellite (ship-satellite)
3	161.975 MHz *(AIS 1)*	12.5 watts pY	AIS
4	162.025 MHz *(AIS 2)*	12.5 watts pY	AIS

Channels 75 and 76 may also be used for the purpose of navigation-related communications in accordance with Appendix 18 (REV. WRC-15) of the International Telecommunication Union Radio Regulations.

15 After Part 2.10 of Schedule 2

Insert:

Part 2.11 VHF Data Exchange System (VDES)

Column 1 Item	Column 2 Frequency band *(Channel number)*	Column 3 Maximum transmitter output power
1	157.200 MHz Tx 161.800 MHz Rx *(24)*	25 watts pY
2	157.225 MHz Tx 161.825 MHz Rx *(84)*	25 watts pY
3	157.250 MHz Tx 161.850 MHz Rx *(25)*	25 watts pY
4	157.275 MHz Tx 161.875 MHz Rx *(85)*	25 watts pY
5	157.300 MHz *(1026)* 157.325 MHz *(1086)* 161.900 MHz *(2026)* 161.925 MHz *(2086)*	25 watts pY

Channels 24, 84, 25 and 85 may be merged in order to form a unique duplex channel with a bandwidth of 100 kHz in order to operate the VDES terrestrial component described in the most recent version of *Recommendation ITU-R M.2092* (WRC-15) of the International Telecommunication Union.

Part 2.12 Application Specific Messages (ASM)

Column 1 Item	Column 2 Frequency band *(Channel number)*	Column 3 Maximum transmitter output power
1	161.950 MHz *(ASM 1)*	25 watts pY
2	162.000 MHz *(ASM 2)*	25 watts pY