

GMDSS

OPERATIONAL DETAILS

The type of equipment to be carried by each vessel, together with its maintenance arrangements and operating personnel is determined by vessel's area of operation. Four Sea Areas have been defined according to the coverage of VHF, MF, HF Coast Radio Services and Inmarsat Services as follows.

DESCRIPTIONS OF GMDSS SEA AREAS

Area Description	Distance	Radio	Frequencies	EPIRBs	Survival Craft
A1 Within range of shore-based VHF stations	Depends on antenna height at shore-based VHF station, about 20-50 n miles	VHF	156.525 MHz (Ch 70) for DSC or 156.8 MHz (Ch 16) RT	406 MHz Cospas-Sarsat or VHF EPIRB	9 GHz radar transponder (SART); VHF portable radio (Ch 16 and one other frequency)
A2 Within range of shore-based MF stations	about 50-250 n miles	MF VHF	as above, plus, 2187.5 kHz DSC, 2182 kHz RT, 2174.5 kHz NBDP, 518 kHz NAVTEX	406 MHz Cospas-Sarsat	as above
A3 Within geo-stationary satellite range (i.e. Inmarsat)	70°N-70°S	HF or Satellite MF VHF	as above, plus 1.5-1.6 GHz alerting or as A1 and A2 plus all HF frequencies	406 MHz Cospas-Sarsat	as above
A4 Other areas (i.e., beyond Inmarsat range)	North of 70°N or South of 70°S	HF MF VHF		406 MHz Cospas-Sarsat	as above

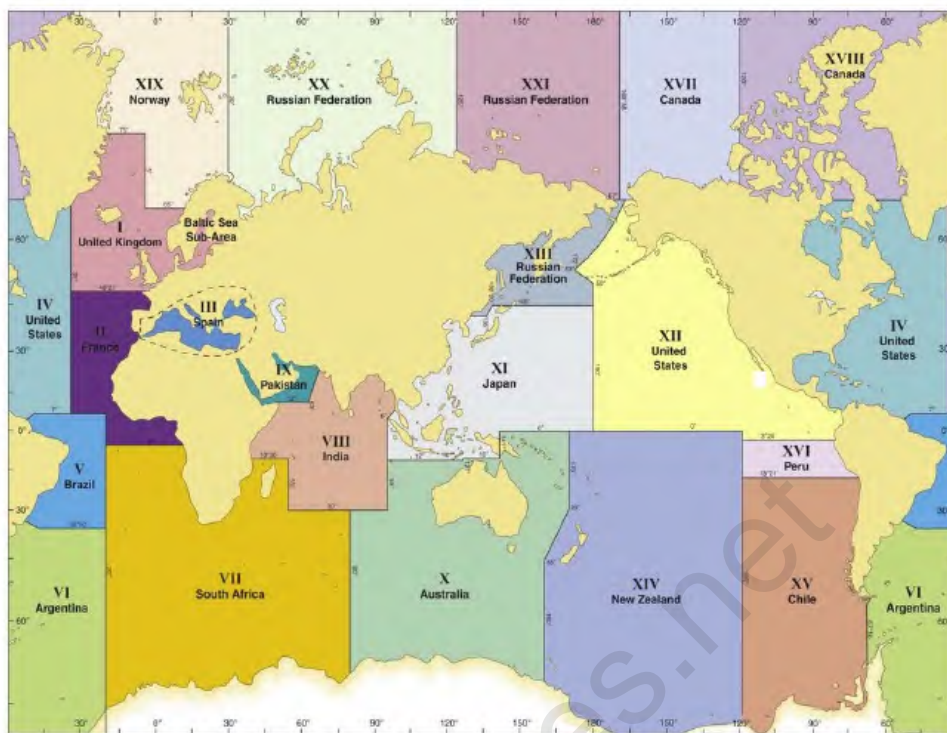
Basic Equipment (minimum requirements including duplication of equipment) For SOLAS Ships

Equipment	A1	A2	A3 Inmarsat Solution	A3 HF Solution	A4
VHF with DSC	X	X	X	X	X
DSC watch receiver channel 70	X	X	X	X	X
MF telephony with MF DSC		X	X		
DSC watch receiver 2187.5 kHz		X	X		
Inmarsat ship earth station with EGC receiver			X		
MF/HF telephony with DSC and telex				X	X
DSC watch receiver MF/HF				X	X
Duplicated VHF with DSC			X	X	X
Duplicated Inmarsat SES ¹			X		
Duplicated MF/HF telephony with DSC and telex ¹					X
NAVTEX receiver 518 kHz	X	X	X	X	X
Float-free satellite EPIRB	X	X	X	X	X ⁴
Radar transponder (SART)	X ²	X ²	X ²	X ²	X ²
Hand held GMDSS VHF transceiver	X ³	X ³	X ³	X ³	X ³
For passenger ships the following has applied since 01.07.97					
"Distress panel" (SOLAS Ch.IV/6.4 and 6.6)	X	X	X	X	X
Automatic updating of position to all relevant radiocommunication equipment (SOLAS Ch.IV/6.5)	X	X	X	X	X
Two-way-on-scene radiocommunication on 121.5 or 123.1 MHz from the navigating bridge (SOLAS Ch.IV/7.5)	X	X	X	X	X

1) Some authorities accept 1 SES and 1 MF/HF as equivalent to duplication provided the MF/HF has DSC Telex.

2) Cargo ships between 300 and 500 gt.: 1 set Cargo ships of 500 gt. and upwards and passenger ships: 2 sets.

3) Cargo ships between 300 and 500 gt.: 2 sets Cargo ships of 500 gt. and upwards and passenger ships: 3 sets.



navareas

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