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GUIDELINES FOR THE PRESENTATION OF NAVIGATION-RELATED SYMBOLS, TERMS AND ABBREVIATIONS

1 The Sub-Committee on Safety of Navigation (NAV), at its fiftieth session (5 to 9 July 2004), agreed on Guidelines for the presentation of navigation-related symbols, given in annex 1, and terms and abbreviations, given in annex 2, and that they should be used for the display of navigation-related information on all shipborne navigational equipment and systems in consistent and uniform manner.

2 The Maritime Safety Committee, at its seventy-ninth session (1 to 10 December 2004), concurred with the Sub-Committee's views, approved the annexed Guidelines and encouraged their use for all shipborne navigational systems and equipment.

3 Member Governments are invited to bring the annexed Guidelines to the attention of all concerned.

ANNEX 1

Guidelines for the Presentation of Navigation-related Symbols

1 Purpose

The purpose of these annexed guidelines is to provide guidance on the appropriate use of navigation-related symbols to achieve a harmonized and consistent presentation.

2 Scope

The use of these guidelines will insure that the symbols used for the display of navigation-related information on all shipborne navigational systems and equipment are presented in a consistent and uniform manner.

3 Application

These guidelines apply to all shipborne navigational systems and equipment. The symbols listed in the appendix should be used for the display of navigation-related information to promote consistency in the symbol presentation on navigational equipment.

The symbols listed in the Appendix should replace symbols which are currently contained in existing performance standards. Where a standard symbol is not available, another symbol may be used, but this symbol should not conflict with the symbols listed in the appendix.

APPENDIX

Navigation-related Symbols

Table 1: Own Ship Symbols

Торіс	Symbol	Description
Own ship	0	Double circle, located at own ship's reference position. Use of this symbol is optional, if own ship position is shown by the combination of Heading Line and Beam Line.
Own Ship True scale outline	True scale outline located relative to own ship's reference position, oriented along own ship's headi Used on small ranges/large scales.	
Own Ship Radar Antenna Position		Cross, located on a true scale outline of the ship at the physical location of the radar antenna that is the current source of displayed radar video.
Own Ship Heading line	O	Solid line thinner than the speed vector line style, drawn to the bearing ring or of fixed length, if the bearing ring is not displayed. Origin is at own ship's reference point.
Own Ship Beam line		Solid line of fixed length; optionally length variable by operator. Midpoint at own ship's reference point.
Own Ship Speed vector		Dashed line – short dashes with spaces approximately twice the line width of heading line. Time increments between the origin and endpoint may optionally be marked along the vector using short intersecting lines. To indicate Water/Ground stabilization optionally one arrowhead for water stabilization and two arrowheads for ground stabilization may be added.
Own Ship Path prediction	0	A curved vector may be provided as a path predictor.
Own Ship Past Track		Thick line for primary source. Thin line for secondary source. Optional time marks are allowed.

Торіс	Symbol	Description
		Solid filled or unfilled circle located at target position.
Tracked Target	0	The course and speed vector should be displayed as dashed line, with short dashes with spaces approximately twice the line width.
including Dangerous Target	9	Optionally, time increments, may be marked along the vector.
		For a "Dangerous Target" , bold, red (on colour display) solid circle with course and speed vector, flashing until acknowledged.
		Circle segments in the acquired target state.
Target in Acquisition State		For automatic acquisition, bold circle segments, flashing and red (on colour display) until acknowledged.
Lost Target	X	Bold lines across the circle, flashing until acknowledged.
Selected Target	[0]	A square indicated by its corners centred around the target symbol.
Target Past Positions	•••	Dots, equally spaced by time.
Tracked Reference Target	R	Large R adjacent to designated tracked target. Multiple reference targets should be marked as R1, R2, R3, etc.

Table 2: Tracked Radar Target Symbo	ols
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Торіс	Symbol	Description
AIS Target (sleeping)	1	An isosceles, acute-angled triangle should be used. The triangle should be oriented by heading, or COG if heading missing. The reported position should be located at centre and half the height of the triangle. The symbol of the sleeping target should be smaller than that of the activated target.
	1/	An isosceles, acute-angled triangle should be used. The triangle should be oriented by heading, or COG if heading missing. The reported position should be located at centre and half the height of the triangle.
	4	The COG/SOG vector should be displayed as a dashed line with short dashes with spaces approximately twice the line width. Optionally, time increments may be marked along the vector.
Activated AIS Target Including Dangerous Target		The heading should be displayed as a solid line thinner than speed vector line style, length twice of the length of the triangle symbol. Origin of the heading line is the apex of the triangle.
	1	The turn should be indicated by a flag of fixed length added to the heading line.
		A path predictor may be provided as curved vector.
	V	For a "Dangerous AIS Target" , bold, red (on colour display) solid triangle with course and speed vector, flashing until acknowledged.
	1	A true scale outline may be added to the triangle symbol. It should be:
AIS Target – True Scale Outline		Located relative to reported position and according to reported position offsets, beam and length. Oriented along target's heading.
	<u> </u>	Used on low ranges/large scales.
Selected target		A square indicated by its corners should be drawn around the activated target symbol.
Lost target	×	Triangle with bold solid cross. The triangle should be oriented per last known value. The cross should have a fixed orientation. The symbol should flash until acknowledged.
		The target should be displayed without vector, heading and rate of turn indication.
Target Past Positions		Dots, equally spaced by time.

Table 3: AIS Target Symbols

Торіс	Symbol	Description
AIS Based AtoN Real Position of Charted Object		Diamond with crosshair centred at reported position. (Shown with chart symbol. Chart symbol not required for radar.)
AIS Based AtoN Virtual position		Diamond with crosshair centred at reported position.
Monitored Route	<u>ө-ө</u> ,	Dashed bold line, waypoints (WPT) as circles.
Planned or Alternate Route	OO	Dotted line, WPT as circles.
Trial Manoeuvre	Т	Large T on screen.
Simulation Mode	S	Large S on screen.
Cursor	+ -¦-	Crosshair (two alternatives, one with open centre).
Range Rings		Solid circles.
Variable Range Markers (VRM)		Circle. Additional VRM should be distinguishable from the primary VRM.
Electronic Bearing Lines (EBL)		Dashed line. Additional EBL should be distinguishable from the primary EBL.

Table 4: Other Symbols

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Торіс	Symbol	Description
Acquisition/ Activation Area		Solid line boundary for an area.
Event Mark		Rectangle with diagonal line, clarified by added text (e.g. "MOB" for man overboard cases).

ANNEX 2

Guidelines for the Presentation of Navigation-related Terms and Abbreviations

1 Purpose

The purpose of these guidelines is to provide guidance on the use of appropriate navigation-related terminology and abbreviations intended for presentation on shipborne navigational displays. These are based on terms and abbreviations used in existing navigation references.

2 Scope

These guidelines are issued to ensure that the terms and abbreviations used for the display of navigation-related information on all shipborne navigation equipment and systems are consistent and uniform.

3 Application

These guidelines apply to all shipborne navigational systems and equipment including, radar, ECDIS, AIS, INS and IBS. When navigation-related information is displayed as text, the standard terms or abbreviations listed in the Appendix should be used, instead of using terms and abbreviations which are currently contained in existing performance standards.

Where a standard term and abbreviation is not available, another term or abbreviation may be used. This term or abbreviation should not conflict with the standard terms or abbreviations listed in the Appendix and provide a clear meaning. Standard marine terminology should be used for this purpose. When the meaning is not clear from its context, the term should not be abbreviated.

Unless otherwise specified, standard terms should be shown in lower case while abbreviations should be presented using upper case.

APPENDIX

List of Standard Terms and Abbreviations

Term	Abbreviation	Abbreviation	Term
Acknowledge	ACK	ACK	Acknowledge
Acquire, Acquisition	ACQ	ACQ	Acquire, Acquisition
Acquisition Zone	AZ	ADJ	Adjust, Adjustment
Adjust, Adjustment	ADJ	AFC	Automatic Frequency Control
Aft	AFT	AFT	Aft
Alarm	ALARM	AGC	Automatic Gain Control
Altitude	ALT	AIS	Automatic Identification System
Amplitude Modulation	AM	ALARM	Alarm
Anchor Watch	ANCH	ALT	Altitude
Antenna	ANT	AM	Amplitude Modulation
Anti Clutter Rain	RAIN	ANCH	Anchor Watch
Anti Clutter Sea	SEA	ANCH	Vessel at Anchor (applies to AIS)
April	APR	ANT	Antenna
Audible	AUD	APR	April
August	AUG	AUD	Audible
Automatic	AUTO	AUG	August
Automatic Frequency Control	AFC	AUTO	Automatic
Automatic Gain Control	AGC	AUX	Auxiliary System/Function
Automatic Identification System	AIS	AVAIL	Available
Auxiliary System/Function	AUX	AZ	Acquisition Zone
Available	AVAIL	BITE	Built in Test Equipment
Background	BKGND	BKGND	Background
Bearing	BRG	BRG	Bearing
Bearing Waypoint To Waypoint	BWW	BRILL	Brilliance
Brilliance	BRILL	BWW	Bearing Waypoint To Waypoint
Built in Test Equipment	BITE	C	Carried (e.g. carried EBL origin)
Calibrate	CAL	C UP (See note 2)	Course Up
Cancel	CNCL	CAL	Calibrate
Carried (e.g. carried EBL origin)	C	CCRP	Consistent Common Reference
			Point
Centre	CENT	CCRS	Consistent Common Reference System
Change	CHG	CENT	Centre
Circular Polarised	СР	CHG	Change
Clear	CLR	CLR	Clear
Closest Point of Approach	CPA	CNCL	Cancel
Consistent Common Reference Point		COG	Course Over the Ground
Consistent Common Reference	CCRS	CONT	Contrast
System	CONT	CORR	Correction
Contrast Correction	CORR	CP	Circular Polarised
	CRS	CP	
Course	CRS		Closest Point of Approach Course
Course Over the Ground	CTW	CRS CTS	
Course Through the Water	CTW	CTW	Course To Steer
Course To Steer	C UP ^(See note 2)		Course Through the Water
Course Up		CURS	Cursor
Cross Track Distance	XTD	D	Dropped (e.g. dropped EBL origin)
Cursor	CURS	DATE	Date
Dangerous Goods	DG	DAY/NT	Day/Night
Date	DATE	DEC	December
L	ı		

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Term	Abbreviation	Abbreviation	Term
Day/Night	DAY/NT	DECR	Decrease
Dead Reckoning, Dead Reckoned	DR	DEL	Delete
Position			
December	DEC	DELAY	Delay
Decrease	DECR	DEP	Departure
Delay	DELAY	DEST	Destination
Delete	DEL	DEV	Deviation
Departure	DEP	DG	Dangerous Goods
Depth	DPTH	DGAL (See note 2)	Differential Galilleo
Destination	DEST	DGLONASS (See note 2)	Differential GLONASS
Deviation	DEV	DGNSS (See note 2)	Differential GNSS
Differential Galilleo	DGAL (See note 2)	DGPS ^(See note 2)	Differential GPS
Differential GLONASS	DGLONASS (See note 2)	DISP	Display
Differential GNSS	DGNSS (See note 2)	DIST	Distance
Differential GPS	DGPS (See note 2)	DIVE	Vessel Engaged in Diving Operations (applies to AIS)
Digital Selective Calling	DSC	DPTH	Depth
Display	DISP	DR	Dead Reckoning, Dead Reckoned
Dispidy	DISI	DK	Position
Distance	DIST	DRG	Vessel Engaged in Dredging or
Distance	D131	DRO	Underwater Operations
			(applies to AIS)
Distance Root Mean Square	DRMS (See note 2)	DRIFT	Drift
Distance To Go	DTG	DRIFT DRMS ^(See note 2)	Distance Root Mean Square
Drift	DRIFT	DRMS	Distance Root Mean Square
	D	DSC	Digital Selective Calling Distance To Go
Dropped	D	DIG	Distance To Go
(e.g. dropped EBL origin) East	E	E	East
	EBL	E EBL	East
Electronic Bearing Line			Electronic Bearing Line
Electronic Chart Display and Information System	ECDIS	ECDIS	Electronic Chart Display and Information System
Electronic Navigational Chart	ENC	ENC	Electronic Navigational Chart
Electronic Position Fixing System	EPFS	ENH	Enhance
Electronic Range and Bearing Line	ERBL	ENT	Enter
Enhance	ENH	EP	Estimated Position
Enter	ENT	EPFS	Electronic Position Fixing System
Equipment	EQUIP	EQUIP	Equipment
Error	ERR	ERBL	Electronic Range and Bearing
	Liut	LIUL	Line
Estimated Position	EP	ERR	Error
Estimated Time of Arrival	ETA	ETA	Estimated Time of Arrival
Estimated Time of Departure	ETD	ETR	Estimated Time of Departure
Event	EVENT	ETD	Event
Exclusion Zone	EVENT	EVENT	Event
External	EXT	EZ	Exclusion Zone
February	FEB	FEB	February
Fishing Vessel	FISH	FISH	Fishing Vessel
	FISH		
Fix		FIX	Fix Frequency Modulation
Forward	FWD	FM	Frequency Modulation
Frequency	FREQ	FREQ	Frequency
Frequency Modulation	FM	FULL	Full
Full	FULL	FWD	Forward
Gain	GAIN	GAIN	Gain
Galilleo	GAL	GAL	Galilleo
Geometric Dilution Of Precision	GDOP	GC	Great Circle

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Term	Abbreviation	Abbreviation	Term
Global Maritime Distress and	GMDSS	GDOP	Geometric Dilution Of Precision
Safety System			
Global Navigation Satellite System	GNSS	GLONASS	Global Orbiting Navigation Satellite System
Global Orbiting Navigation	GLONASS	GMDSS	Global Maritime Distress and
Satellite System			Safety System
Global Positioning System	GPS	GND	Ground
Great Circle	GC	GNSS	Global Navigation Satellite
			System
Grid	GRID	GPS	Global Positioning System
Ground	GND	GRI	Group Repetition Interval
Group Repetition Interval	GRI	GRID	Grid
Guard Zone	GZ	GRND	Vessel Aground (applies to AIS)
Gyro	GYRO	GYRO	Gyro
Harmful Substances	HS	GZ	Guard Zone
(applies to AIS)			
Head Up	H UP (See note 2)	H UP (See note 2)	Head Up
Heading	HDG	HCS	Heading Control System
Heading Control System	HCS	HDG	Heading
Heading Line	HL	HDOP	Horizontal Dilution Of Precision
High Frequency	HF	HF	High Frequency
High Speed Craft (applies to AIS)	HSC	HL	Heading Line
Horizontal Dilution Of Precision	HDOP	HS	Harmful Substances
			(applies to AIS)
Identification	ID	HSC	High Speed Craft (applies to AIS)
In	IN	I/O	Input/Output
Increase	INCR	ID	Identification
Indication	IND	IN	In
Information	INFO	INCR	Increase
Infrared	INF RED	IND	Indication
Initialisation	INIT	INF RED	Infrared
Input	INP	INFO	Information
Input/Output	I/O	INIT	Initialisation
Integrated Radio Communication System	IRCS	INP	Input
Interference Rejection	IR	INT	Interval
Interswitch	ISW	IR	Interference Rejection
Interval	INT	IRCS	Integrated Radio Communication
			System
January	JAN	ISW	Interswitch
July	JUL	JAN	January
June	JUN	JUL	July
Latitude	LAT	JUN	June
Limit	LIM	LAT	Latitude
Line Of Position	LOP	LF	Low Frequency
Log	LOG	LIM	Limit
Long Pulse	LP	LOG	Log
Long Range	LR	LON	Longitude
Longitude	LON	LOP	Line Of Position
Loran	LORAN	LORAN	Loran
Lost Target	LOST TGT	LOST TGT	Lost Target
Low Frequency	LF	LP	Long Pulse
Magnetic	MAG	LR	Long Range
Manoeuvre	MVR	MAG	Magnetic
Manual	MAN	MAN	Manual
Map(s)	MAP	MAP	Map(s)
March	MAR	MAR	March

Term	Abbreviation	Abbreviation	Term
Maritime Mobile Services Identity		MAX	Maximum
number	IVIIVIOI		Wuximum
Maritime Pollutant	MP	MAY	May
(applies to AIS)	1011		ivitay
Maritime Safety Information	MSI	MENU	Menu
Marker	MKR	MF	Medium Frequency
Master	MSTR	MIN	Minimum
Maximum	MAX	MISSING	Missing
May	MAY	MKR	Marker
Medium Frequency	MF	MMSI	Maritime Mobile Services Identity
incuration inclusion y		11110101	number
Medium Pulse	MP	MON	Performance Monitor
Menu	MENU	MP	Maritime Pollutant
			(applies to AIS)
Minimum	MIN	MP	Medium Pulse
Missing	MISSING	MSI	Maritime Safety Information
Mute	MUTE	MSTR	Master
Navigation	NAV	MUTE	Mute
Normal	NORM	MVR	Manoeuvre
North	N	N	North
North Up	N UP (See note 2)	N UP (See note 2)	North Up
November	NOV	NAV	Navigation
October	OCT	NORM	Normal
Off	OFF	NOV	November
Officer of the Watch			
Officer of the watch	OOW	NUC	Vessel Not Under Command
Offset	OFFEF	OCT	(applies to AIS) October
	OFFSET	OFF	Off
On	ON OUT	-	Off Offset
Out/Output		OFFSET	
Own Ship Panel Illumination	OS PANEL	ON OOW	On Officer of the Watch
Panel Illumination Parallel Index Line	PANEL		
		OS	Own Ship
Passenger Vessel (applies to AIS)	PASSV	OUT	Out/Output
Performance Monitor	MON	PAD	Predicted Area of Danger
Permanent	PERM	PANEL	Panel Illumination
Person Overboard	POB	PASSV	Passenger Vessel (applies to AIS)
Personal Identification Number	PIN	PDOP	Positional Dilution Of Precision
Pilot Vessel (applies to AIS)	PILOT	PERM	Permanent
Port/Portside	PORT	PI	Parallel Index Line
Position	POSN	PILOT	Pilot Vessel (applies to AIS)
Positional Dilution Of Precision	PDOP	PIN	Personal Identification Number
Power	PWR	PL	Pulse Length
Predicted	PRED	PM	Pulse Modulation
Predicted Area of Danger	PAD	POB	Person Overboard
Predicted Point of Collision	PPC	PORT	Port/Portside
Pulse Length	PL	POSN	Position
Pulse Modulation	PM	PPC	Predicted Point of Collision
Pulse Repetition Frequency	PRF	PPR	Pulses Per Revolution
Pulse Repetition Rate	PRR	PRED	Predicted
Pulses Per Revolution	PPR	PRF	Pulse Repetition Frequency
Racon	RACON	PRR	Pulse Repetition Rate
Radar	RADAR	PWR	Power
Radius	RAD	RACON	Racon
Rain	RAIN	RAD	Radius
Range	RNG	RADAR	Radar
Range Rings	RR	RAIM	Receiver Autonomous Integrity
			Monitoring
Raster Chart Display System	RCDS	RAIN	Anti Clutter Rain
-r - j - j			

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Raster Navigational ChartRNCRAINRainRate Of TurnROTRCDSRaster Chart Display SystemReal-time KinemeticRTKREFReferenceReceiverAutonomous IntegrityRAIMVessel Restricted in Manocur/ability (applies to AIS)ReferenceREFRMRelative MotionRelativeRLFRNCRaster Navigational ChartRelative MotionRMRNCRaster Navigational ChartRelative MotionRMRNCRaster Navigational ChartRelative MotionRMRNCRaster Navigational ChartRelative MotionRMSRol On/Roll Off Vessel(applies to AIS)RouteROUTEROUTERouteROUTERouteROUTEROUTERouteRate Of TurnSatelliteSAITRRRange RingsSatelliteSAITRRRange RingsSatelliteSAITRaster And Rescue TransponderSARTSearch And Rescue Vessel (applies SARUSARTSatelliteSequenceSEQSCACSSaturb ScanSequenceSEQSequenceSaturb ScanSaterShip's TimeTIMESPESetent Saturb ScanSaterSignal to Noise RatioSIMSIMSistSeterSignal to Noise RatioSIMSIMSistSignal to Noise RatioSIMSTABStategeSpeedAnd fistance MeasuringSIMSitalionSignal to Noise RatioSIM <th>Term</th> <th>Abbreviation</th> <th>Abbreviation</th> <th>Term</th>	Term	Abbreviation	Abbreviation	Term
Rate Of Turn ROT RCDS Raster Chart Display System Real-time Kinemetic RTK REF Reference REF Reference Reference REF Ref Reference REF<	Raster Navigational Chart	RNC	RAIN	Rain
Real-time Kinemetic RTK Reference Receiver Rty Werner 21 REF Reference Reference REF Reflative Relative REL Nanoeursability) (applies to ALS) Relative Motion RM Relative Motion Relative Motion RM RNC Raster Navigational Chart Revolutions per Minute RPM RNG Raster Navigational Chart Revolutions per Minute RDM RNG Raster Navigational Chart Roto Main Square RMM ROG Roll On/Roll Off Vessel (applies to ALS) Route ROUTE ROUTE ROUTE ROUTE Satellite SAT RTK Range Rings Satellite SAT RTK Range Rings Satellite SAT RTK Realetiver Saten Scann SC/SC S South Search And Rescue Vessel (applies to AIS) SART SART Search And Rescue Vessel (applies to AIS) Sater Sater Sequence SLP SAT		ROT	RCDS	Raster Chart Display System
Receiver RX ^{Genore 2)} ReL ^{Senore 2)} Relative Receiver Autonomous Integrity RAIM Nanoeuvrability) (applies to AIS) Relative Motion RL RMM Relative Motion Relative Motion RL RMM Relative Motion Relative Motion RM Relative Motion RM Revolutions per Minute RPM RNG Raare ROI On/Roll Off Vessel RoRo (applies to AIS) ROT Route asquare RMS ROT Rate Of Turn Route Safety Contour SF CNT RPM Revolutions per Minute Safety Contour SF CNT RAT Real-time Kinemetic Safety Contour SF CNT SAT SAT Sector And Rescue Transponder		RTK	DEE	
Receiver Autonomous Integrity RAIM RAIM RAIM Vessel Restricted in Manoeuryability) (applies to AIS) Reference REF RM Relative Motion RM RM RAIM RNC Raster Navigational Chart Relative Motion RM RNC Raster Navigational Chart RNG Raster Navigational Chart Relotive Motion RM RNG Raster Navigational Chart RNG Raster Navigational Chart Revolutions per Minute RPM RNG Raster Navigational Chart Roll On/Roll Off Vessel (applies to AIS) Root Mean Square RMS ROT Rate Of Turn Route Safety Contour SP CNT RPM Revolutions per Minute Safety Contour SP CNT Satellite SAT RTK Receiver Secont Scan SCSC South Secont Scan SARV SART Satellite Satellite Secont And Rescue Vessel (applies to AIS) Secont Scan SARV SART Satellite Sater And Rescue Transponder SART Satellite Secont And Rescue Vessel (applies to AIS) <td></td> <td>RX (See note 2)</td> <td>REL (See note 3)</td> <td></td>		RX (See note 2)	REL (See note 3)	
MonitoringManoeuvrability) (applies to AIS)ReferenceREFRMRelative MotionRelative MotionRMRMSRoot Mean SquareRelative MotionRMRNCRaster Navigational ChartRevolutions per MinuteRPMRNGRangeRoll On/Roll Off VesselRRO(applies to AIS)Rout Man SquareRMSROTRate OrTumRouteROUTEROUTEROUTERouteRouteROUTEROUTERouteROUTESafety ContourSF CNTRPMRevolutions per MinuteSailing Vessel (applies to AIS)SAILRRRage fingsSatelliteSATRIKRead-time KinemeticSarach And Rescue TransponderSAATSAILSaling Vessel (applies to AIS)Search And Rescue TransponderSARVSARTSaling Vessel (applies to AIS)Search And Rescue TransponderSARVSARTSatelliteSelectSEPSATSatelliteSARVSet (i.e., set and drift, or setting a Signal to Noise RatioSPGSFAShort PulseSPSFAAnti Clutter SeaSignal to Noise RatioSIMSSESelectSignal to Noise RatioSIMSSESing Signal to Noise RatioShort PulseSPDSF CNTSafery ContourSpeed and Distance Measuring EquipmentSIMSim SecolShort PulseSPDSFC CNTSafery ContourSpeed And Distance Measuring SpeedSIMSIN				
Reference REF Relative Ref Relative Motion RM RMS Root Mean Square Relative Motion RM RNC Raster Navigational Chart RNG Raster Navigational Chart Relative Motion RM RNC Raster Navigational Chart RNG Raster Navigational Chart Relative Motion RM RNG Raster Navigational Chart RNG Raster Navigational Chart Roth Gan Square RMS RoRo RoRo RoP RoP Roth Chart Raster Navigational Chart Satility Used (applies to AIS) SAIL Rading Vased (applies to AIS) SAIL Rading Vased (applies to AIS) SAIL RX (Normer) Receiver Scant to Scan SC/SC S South SART Scarch And Rescue Transponder SC/SC Scant o Scan SC/SC Scant o Scan <td< td=""><td>e ,</td><td></td><td></td><td>Manoeuvrability) (applies to AIS)</td></td<>	e ,			Manoeuvrability) (applies to AIS)
Relative Motion RM RNC Raster Navigational Chart Revolutions per Minute RPM RNG Range ROI On/Roll Off Vessel Roll On/Roll Off Vessel RoRo (applies to AIS) (applies to AIS) Root Mean Square RMS ROT Rate Of Tum Route ROUTE ROUTE Route Safing Vessel (applies to AIS) SAII. RR Range Rings Satellite SAT RTK Real-time Kinemetic S-Band (applies to Radar) S-BAND SART SART Search And Rescue Transponder SART SART SART Satellite Sector SEL SART Satellite SART Satellite Sequence SEQ S-BAND S-Band (applies to Radar) Secuer Vessel Sequence SEQ S-BAND S-Band (applies to Radar) Sciftice, set and drift, or setting a SET Simp's Time TIME SDM Select		REF	RM	
Relative Motion RM RNC Raster Navigational Chart Revolutions per Minute RPM RNG Range Roll On/Roll Off Vessel RoRo (applies to AIS) (applies to AIS) Root Mean Square RMS ROT Rate Of Turm Root Mean Square RMS ROT Rate Of Turm Safety Contour SF CNT RPM Revolutions per Minute Safety Contour SF CNT RPM Revolutions per Minute Safety Contour SF CNT RPM Revolutions per Minute Satellite SAT Rate Of Turm Receiver Search And Rescue Transponder SART SART Satellite Search And Rescue Vessel (applies SART Satellite SART Sequence SEQ SANT Satellite Secure Vessel (applies to AIS) Sequence SEQ S-BAND S-Band (applies to Radar) SC/SC Sing's Time TIME SDME Speed and Distance Measuring Equipment Short Pulse SP SFA SEP Secure Sate Sate Sate Sate Sate Sate Sate Sat	Relative	REL (See note 3)	RMS	Root Mean Square
Revolutions per Minute RPM Roll On/Roll Off Vessel RoRo Roll On/Roll Off Vessel RoRo Route ROUTE Route ROUTE Safety Contour SF CNT Safety Contour SF CNT Satellite SAT RTK Real-fine Kinemetic Statellite SAT Statellite SAT Search And Rescue Transponder SART Saling Vessel (applies to AIS) SART Search And Rescue Transponder SART Select SEL Select SEL Sequence SEP Sequence SEP Stip's Time TIME Sing's Time TIME Sing to Noise Ratio SNR Signal to Noise Ratio SNR Signal to Noise Ratio SNR Signal to Noise Ratio SNR Start Status Set (i.e., set and drift, or setting a SDME Speed SDM Start Status Signal to Noise Ratio Shing's Time SNR Signal to Noise Ratio SNR Signal to Noise Ratio SNR Signal to Noise Ratio SNR Start Stare Measuring SPD <td>Relative Motion</td> <td>RM</td> <td>RNC</td> <td></td>	Relative Motion	RM	RNC	
Roll On/Roll Off Vessel RoRo RoRo Roll On/Roll Off Vessel (applies to AIS) ROT Rate Corl Ium ROUTE ROUTE ROUTE ROUTE Route Safety Contour SF CNT RPM Revolutions per Minute Sailing Vessel (applies to AIS) SAIL RR Range Rings Satellite SAT RT Real-time Kinemetic Satent Scan SC/SC S South Search And Rescue Transponder SART SART Sarch And Rescue Transponder Salect SE South Search And Rescue Vessel Select SEI SARV Search And Rescue Vessel Sequence SEP SAT Satellite Sequence SEP SAT Satellite Ship's Time TIME SDME Speed and Distance Measuring Simulation SIM ^(Seconter) SEP SEA Slave SLAVE SEQ Sequence Subilized SP SEI Select Simulation SIM ^(Seconter) SEP SEA Slave SLAVE SEQ Sequence Subilized SP SEI Select Simulation SIM ^(Seconter) Simula	Revolutions per Minute	RPM	RNG	Range
Root Mean SquareRMSROTRate OT TurnRouteROUTEROUTEROUTERouteSafety ContourSF CN1RPMRevolutions per MinuteSaling Vessel (applies to AIS)SAILRRRange RingsSatelliteSATRTKReal-time KinemeticS-Band (applies to Radar)S-BANDRX (See note 2)ReceiverScarto And Rescue TransponderSARTSAILSailing Vessel (applies to AIS)Scarch And Rescue Vessel (applies SARVSARTSearch And Rescue Transponderto AIS)SESATSatelliteSeptemberSEPSATSatelliteSequenceSEQS-BANDS-Band (applies to Radar)Set (i.e., set and drift, or setting a value)SPSEAShort PulseSPSEAAnti Clutter SeaSignal to Noise RatioSINSEISelectSouthSSETSet (i.e., set and drift, or setting a SIM 'See note 1)SpeedSDMSPSEASouthSSETSet (i.e., set and drift, or setting a value)SpeedSDMSFSETSpeedSDMSFSIM 'See note 1)StabilizedSTABSOGSpeed and Distance Measuring Starbard/Starboard SideSTNStabilizedSTABSOGSpeed Nerugh the WaterSTNStabilizedSTABStabilizedSTABStaboard/Starboard SideSTBDSpeed Nerugh the WaterSTN <td></td> <td>RoRo</td> <td>RoRo</td> <td></td>		RoRo	RoRo	
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	Time to Wheel Over Line	TWOL	TGT	Target

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Term	Abbreviation
Track	TRK
Track Control System	TCS
Track Made Good	TMG ^(See note 5)
Trail(s)	TRAIL
Transceiver	TXRX ^(See note 2)
Transferred Line Of Position	TPL
Transmitter	TX (See note 2)
Transmitting Heading Device	THD
Transmitting freading Device	
Trial	TRIAL (See note 4)
Trigger Pulse	TRIG
True	Т
True Motion	ТМ
Tune	TUNE
Ultrahigh Frequency	UHF
Universal Time, Co-ordinated	UTC
Unstabilised	UNSTAB
Variable Range Marker	VRM
Variation	VAR
Vector	VECT
Very High Frequency	VHF
Very Low Frequency	VLF
Vessel Aground (applies to AIS)	GRND
Vessel at Anchor (applies to AIS)	ANCH
Vessel Constrained by Draught (applies to AIS)	VCD
Vessel Engaged in Diving Operations (applies to AIS)	DIVE
Vessel Engaged in Dredging or Underwater Operations (applies to AIS)	DRG
Vessel Engaged in Towing Operations (applies to AIS)	TOW
Vessel Not Under Command (applies to AIS)	NUC
Vessel Restricted in	RIM
Manoeuvrability) (applies to AIS)	
Vessel Traffic Service	VTS
Vessel Underway Using Engine	UWE
(applies to AIS)	
Video	VID
Voyage	VOY
Voyage Data Recorder	VDR
Warning	WARNING
Water	WAT
Waypoint	WPT
West	W
Wheel Over Line	WOL
Wheel Over Time	WOT

A 1 1 · /·	ar l		
Abbreviation	Term		
THD	Transmitting Heading Device		
TIME	Ship's Time		
TIME	Time		
ТМ	True Motion		
TMG (See note 5)	Track Made Good		
TOA	Time Of Arrival		
TOD	Time Of Departure		
TOW	Vessel Engaged in Towing		
	Operations (applies to AIS)		
TPL	Transferred Line Of Position		
TRAIL	Trail(s)		
TRIAL (See note 4)	Trial		
TRIG	Trigger Pulse		
TRK	Track		
TT	Target Tracking		
TTG	Time To Go		
TUNE	Tune		
TWOL	Time to Wheel Over Line		
TX (See note 2)	Transmitter		
TXRX (See note 2)			
UHF	Transceiver		
0	Ultrahigh Frequency		
UNSTAB	Unstabilised		
UTC	Universal Time, Co-ordinated		
UWE	Vessel Underway Using Engine (applies to AIS)		
VAR	Variation		
VCD	Vessel Constrained by Draught		
	(applies to AIS)		
VDR	Voyage Data Recorder		
VECT	Vector		
VHF	Very High Frequency		
VID	X7' 1		
VID	Video		
ME			
VLF	Very Low Frequency		
VOY	Voyage		
VRM	Variable Range Marker		
VTS	Vessel Traffic Service		
W	West		
WARNING	Warning		
WAT	Water		
WOL	Wheel Over Line		
WOT	Wheel Over Time		
WPT	Waypoint		
X-BAND	X-Band (applies to Radar)		
XTD	Cross Track Distance		
	Cross There Distance		

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Unit	Abbreviation	Abbreviation	Unit
cable length	cbl	cbl	cable length
cycles per second	cps	cps	cycles per second
degree(s)	deg	deg	degree(s)
fathom(s)	fm	fm	fathom(s)
feet/foot	ft	ft	feet/foot
gigaHertz	GHz	GHz	gigaHertz
hectoPascal	hPa	hPa	hectoPascal
Hertz	Hz	Hz	Hertz
hour(s)	hr(s)	hr(s)	hour(s)
kiloHertz	kHz	kHz	kiloHertz
kilometre	km	km	kilometre
kiloPascal	kPa	kPa	kiloPascal
knot(s)	kn	kn	knot(s)
megaHertz	MHz	MHz	megaHertz
minute(s)	min	min	minute(s)
Nautical Mile(s)	NM	NM	Nautical Mile(s)

List of Standard Units of Measurement and Abbreviations

Notes:

1. Terms and abbreviations used in nautical charts are published in relevant IHO publications and are not listed here.

2. In general, terms should be presented using lower case text and abbreviations should be presented using upper case text. Those abbreviations that may be presented using lower case text are identified in the list, e.g. "dGNSS" or "Rx".

3. Abbreviations may be combined, e.g. "CPA LIM" or "T CRS". When the abbreviation for the standard term "Relative" is combined with another abbreviation, the abbreviation "R" should be used instead of "REL", e.g. "R CRS".

4. The use of the abbreviations "SIM" and "TRIAL" are not intended to replace the appropriate symbols listed in annex 1.

5. The term "Course Made Good" has been used in the past to describe "Track Made Good". This is a misnomer in that "courses" are directions steered or intended to be steered with respect to a reference meridian. "Track Made Good" is preferred over the use of "Course Made Good".

6. Where information is presented using SI units, the respective abbreviations should be used.