Standard notations for description of boats

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Documents	Abbreviation		Notation	Units	Reference Documents		Definition
Hull:							
Proposed Term	**LOA**		**Length Over All**	**m**			
ISO	L_{max}	5.2.1	Maximum length				
Proposed Term	**LOH**		**Length of the Hull**	**m**	**ERS**	**D.3.1**	
ERS		D.3.1	Hull Length				
IMS	LOA	507	Length Overall				
	LOA						
	LONG						
	LOA						
ISO	L_H	5.2.2	Length of the hull				
Proposed Term	**OF**		**Overhang, Forward**	**m**			**Horizontal Distance from the foremost part of the hull to the foremost part of the waterplane**
EHSC 2005	FO						
IRC	BO						
Proposed Term	**OA**		**Overhang, Aft**	**m**			**Horizontal Distance from the aftmost part of the hull to the aftmost part of the waterplane**
IRC	SO						
Proposed Term	**FF**		**Freeboard, Forward**	**m**	**ISO 8666**	**5.4.3.3**	
IMS	FFM	402.3(a)	Freeboar Forward, Measured				
ISO	F_F	5.4.3.3	Freeboard, forward				
Proposed Term	**FA**		**Freeboard, Aft**	**m**	**ISO 8666**	**5.4.3.1**	
IMS	FAM	402.3(b)	Freeboard Aft, Measured				
ISO	F_A	5.4.3.1	Freeboard, aft				
Proposed Term	**LWL**		**Length of the Water Line**	**m**	**ISO 8666**	**5.2.3**	
EHSC	LWL						
IRC	LWP						
PHRF	LWL						
ISO	L_{WL}	5.2.3	Waterline length				
Proposed Term	**BOH**		**Beam of the Hull**	**m**	**ISO 8666**	**5.3.3**	
EHSC	BM						
IMS	MB	Appx. 1	Maximum Beam				
IRC	Beam						
ISO	B_H	5.3.3	Beam of the hull				
Proposed Term	**BWL**		**Beam at the Water Line**	**m**	**ISO 8666**	**5.3.4**	
EHSC	BWL						
ISO	B_{WL}	5.3.4	Beam at waterline				
Proposed Term	**DSPM**		**Displacement at Measurement Trim**	**kg**			**Displacement at Measurement Trim (to be defined), or as defined by class rules approved by ISAF**
IMS	DSPM	524	Displacement in Measurement Trim				
HN	DEPL						
ISO	m_{LCC}	6.3	Light craft mass (includes "working sails")				
Proposed Term	**NH**		**Number og Hulls**	**integer**			**Number of hulls**
Proposed Term	**LMAX**		**Length of Boat, mutihulls**	**m**	**ISO 8666**	**5.2.2**	
Proposed Term	**BMAX**		**Beam of Boat, multihulls**	**m**	**ISO 8666**	**5.2.2**	
Proposed Term	**LOO**		**Length of Outrigger, multihulls**	**m**			
Proposed Term	**BOO**		**Beam of Outrigger, multihulls**	**m**			
Proposed Term	**HM: GL/CA/AL/ST/W(**		**Hull Material**	**string**			**Glass/Carbon/Aluminum/Steel/Wood/Ferrocement**
Proposed Term	**DRM**		**Draft at Measurement Trim**	**m**			**Draft at *Measurement Trim*, with keel in centreline and in it's lowest position**
EHSC2005	DR						
IMS	DHK	528	Maximum Draft Including Keel				
IRC	Draft						
HN	TIRANT						
ISO	T_{max}	5.4.4.1	Maximum draught				
Keel:							

Proposed Term	**KT: LK/FK/BK/CB**		**Keel Type**	**string**			**Long Keell/Fin Keel/Bulb Keel/Centreboard**
Proposed Term	**NPK**		**Number of Parallel Keels**	**integer**			**Number of parallell Keels**
Proposed Term	**KW**		**Keel Weight**	**kg**			**Keel Weight**
Proposed Term	**KMF**		**Keel Material, Fin**	**string**			**Fin Material, Lead/Iron/Light**
Proposed Term	**KMB**		**Keel Material, Bulb**	**string**			**Bulb Materal, Lead/Iron**
Proposed Term	**CKD**		**Canting Keel Distance**	**m**			**Horizontal distance from the boats centerplane to the center of gravity of the keel, when canted at maximum angle**
Water Ballast:							
Proposed Term	**WBV**		**Water Ballast Volume**	**litre**			**Water Ballast Volume**
IMS	WBV	Appx 10 2	Water Ballast Volume				
Proposed Term	**WBD**		**Water Ballast Distance**	**m**			**Horizontal distance from the boats centerplane to the center of gravity of the water ballast volume**
Propeller code:							
Proposed Term	**PT: FF/SO/S2/S3/NP**		**Propeller Type**	**string**			**Folding or Feathering/Solid/Solid two blades/Solid three blades/No Propeller or Outboard**
Crew:							
Proposed Term	**CW**		**Maximum Crew Weight**	**kg**			**Maximum Crew Weight**
Proposed Term	**NC**		**Maximum Number of crew**	**integer**			**Maximum Number of Crew**
Proposed Term	**NCT**		**Maximum Number of Crew using Trapeze**	**integer**			**Maximum Number of crew using Trapeze**
Mast and boom limits:							
Proposed Term	**P**		**Distance between limit marks on main mast**	**m**	**ERS**	**F.5.5-F.5.4**	
ERS	-	F.5.5-F.5	Upper Point-Lower Point				
IMS	P	806	Mainsail Hoist				
IRC	P						
HN	P						
PHRF	P						
ISO	P		Not defined, but shown in a figure				
Proposed Term	**E**		**Distance to limit mark on main boom**	**m**	**ERS**	**F.12.1**	
ERS		F.12.1	Outer Point Distance				
IMS	E	808.1	Foot of Mainsail				
IRC	E						
HN	E						
PHRF	E						
ISO	E		Not defined, but shown in a figure				
Proposed Term	**PY**		**Distance between limit marks on mizzen mast**	**m**	**ERS**	**F.5.5-F.5.4**	
EHSC	MZP						
ERS		F.5.5-F.5	Upper Point-Lower Point				
IMS	PY	831	Mizzen Hoist				
IRC	PY						
Proposed Term	**EY**		**Distance to limit mark on mizzen boom**	**m**	**ERS**	**F.12.1**	
EHSC	MZP						
ERS	MZE	F.12.1	Outer Point Distance				
IMS	EY	833.1	Foot of Mizzen				
IRC	EY						
Proposed Term	**DBM**		**Distance Between Masts**	**m**			**Horizontal Distance between Masts**
ERS							
IMS	EB	835	Distance Between Masts				
Foretriangle ERS:							
Proposed Term	**FH**		**Foretriangle Height above deck/superstructure**	**m**	**ERS**	**F.3.2**	
EHSC	FH						
ERS	-	F.3.2	Foretriangle Height				
Proposed Term	**SPH**		**Height of Spinnaker Halyard above deck/superstructure**	**m**			**Height of Spinnaker Hoist, from deck or superstructure to spinnaker halyard, when pulled horisontally forward**
Proposed Term	**J**		**Foretriangle base**	**m**	**ERS**	**F.3.1**	
ERS		F.3.1	Foretriangle Base				
IMS	J	803	Base of Foretriangle				
IRC	J						
PHRF	J						

ISO	J		Not defined, but shown in a figure				
Foretriangle height IMS:							
Proposed Term	**IG**		**Height of Genoa hoist**	**m**	**IMS**	**805.1**	**Alternatively FH**
IMS	IG	805.1	Height of Genoa Hoist				
PHRF	I						
ISO	I		Not defined, but shown in a figure				
Proposed Term	**ISP**		**Height of Spinnaker halyard**	**m**	**IMS**	**805.2**	**Alternatively SPH**
ERS	ISP	805.2	Height of Spinnaker Halyard				
PHRF	ISP						
Poles:							
Proposed Term	**SWPL**		**Spinnaker/Whisker Pole Length (end to end)**	**m**	**ERS**	**F.14.1**	**Alternatively SPL**
ERC		F.14.1	Spinnaker/Whisker Pole length				
Proposed Term	**SPL**		**Spinnaker Pole Length (Attached to Mast)**	**m**	**IMS**	**804.2**	
IMS	SPL	804.2	Spinnaker Pole Length				
IRC	SPL						
Proposed Term	**TPS**		**Tack Point of Spinnaker**	**m**	**IMS**	**804.3**	
IMS	TPS	804.3	Tack Point of Spinnaker	STL			
PHRF	BPL						
Rig codes:							
Proposed Term	**FT: FR/MH**		**Foretriangle Type**	**string**			**Fractional rig/Mast Head rig**
Proposed Term	**RT: UN/SL/YA/KE/SC**		**Rig Type**	**string**			**Una/Sloop/Yawl/Ketch/Scooner/Cat**
Proposed Term	**MM: CA/AL/ST/WO**		**Mast Material**	**string**			**Main mast material: Carbon/Aluminum/Steel/Wood**
Proposed Term	**NPS**		**Number of Pairs of Spreaders**	**integer**			**Number of pairs of main mast spreaders**
HN	Bf						
Sail Lengths							
Proposed Term	**F**		**Foot**	**m**	**ERS**	**G.7.1**	
ERS	F	G.7.1	Foot Length				
Proposed Term	**LE**		**Leech**	**m**	**ERS**	**G.7.2**	
ERS	LE	G.7.2	Leech Length				
Proposed Term	**LU**		**Luff**	**m**	**ERS**	**G.7.3**	
ERS	LU	G.7.3	Luff Length				
Proposed Term	**QW**		**Quarter Width**	**m**	**ERS**	**G.7.4**	
ERS	QW	G.7.4	Quarter Width				
Proposed Term	**HW**		**Half Width**	**m**	**ERS**	**G.7.5**	
ERS	HW	G.7.5	Half Width				
Proposed Term	**TQW**		**Three Quarter Width**	**m**	**ERS**	**G.7.6**	
ERS	TQW	G.7.6	Three-Quarter Width				
Proposed Term	**UW**		**Upper Width**	**m**	**ERS**	**G.7.7**	
ERS	UW	G.7.7	Upper Width 7/8				
Proposed Term	**TW**		**Top Width**	**m**	**ERS**	**G.7.8**	
ERS	TW	G.7.8	Top Width				
Proposed Term	**D**		**Diagonal**	**m**	**ERS**	**G.7.9**	
ERS	D	G.7.9	Diagonal				
Proposed Term	**FM**		**Foot Median**	**m**	**ERS**	**G.7.10**	
ERS	FM	G.7.10	Foot Median				
Proposed Term	**LP**		**Luff Perpendicular**	**m**	**ERS**	**G.7.11**	
ERS	LP	G.7.11	Luff Perpendicular				
Proposed Term	**HL**		**Head Length**	**m**	**ERS**	**G.7.12**	
ERS	HL	G.7.12	Head Length				
Proposed Term	**ST: M/Z/H/S/A/MS/ZS**		**Sail Type**	**string**			**Main/Mizzen/Headsail/Spinnaker/Asymmetric Spinnaker/Main Staysail/Mizzen Staysail**
ERS							
Mainsail:							
Proposed Term	**MT: TR/GA**		**Mainsail trype**	**strir**	**ERS**	**Subsec**	**Trilateral/Gaff or similar with four corners**
	BE/GA						
ERS		Subs. A a	Trilateral/Gaff etc.				
Proposed Term	**MF**		**Main Foot**	**m**	**ERS**	**G.7.1**	
	MF						
ERS		G.7.1	Foot Length				
Proposed Term	**MLE**		**Main Leech**	**m**	**ERS**	**G.7.2**	
	MLE						
ERS		G.7.2	Leech Length				
Proposed Term	**MLU**		**Main Luff**	**m**	**ERS**	**G.7.3**	
	MLU						
ERS		G.7.3	Luff Length				

Proposed Term	**MQW**		**Main Quarter Width**	**m**	**ERS**	**G.7.4**	
	MQW						
ERS		G.7.4	Quarter Width				
IMS	MGL	826.1	Mainsail Girth, Lower				
Proposed Term	**MHW**		**Main Half Width**	**m**	**ERS**	**G.7.5**	
ERS		G.7.5	Half Width				
IMS	MGM	826.1	Mainsail Girth, Mid				
IRC	MHW						
Proposed Term	**MTQW**		**Main Three Quarter Width**	**m**	**ERS**	**G.7.6**	
ERS		G.7.6	Three-Quarter Width				
IMS	MGU	826.1	Mainsail Girth, Upper				
IRC	MTW						
Proposed Term	**MUW**		**Main Upper Width**	**m**	**ERS**	**G.7.7**	
ERS		G.7.7	Upper Width 7/8				
IMS	MGT	826.1	Mainsail Girth, Top				
IRC	MUW						
Proposed Term	**MTW**		**Main Top Width**	**m**	**ERS**	**G.7.8**	**MTW extended as necessary for rounded leech. Se ERS G.5.5 and the corresponding figure.**
EHSC	MTW						
ERS		G.7.8	Top Width				
IMS	HB	824	Headboard of Mainsail				
Proposed Term	**MFM**		**Main Foot Median**	**m**	**ERS**	**G.7.10**	
EHSC	MFM						
ERS		G.7.10	Foot Median				
Proposed Term	**MHL**		**Main Head Length**	**m**	**ERS**	**G.7.12**	
EHSC	MHL						
ERS		G.7.12	Head Length				
Proposed Term	**ZF**		**Mizzen Foot**	**m**	**ERS**	**G.7.1**	
EHSC	MZF						
ERS		G.7.1	Foot Length				
Proposed Term	**ZLE**		**Mizzen Leech**	**m**	**ERS**	**G.7.2**	
EHSC	MZLE						
ERS		G.7.2	Leach Length				
Proposed Term	**ZLU**		**Mizzen Luff**	**m**	**ERS**	**G.7.3**	
EHSC	MZLU						
ERS		G.7.3	Luff Length				
Proposed Term	**ZQW**		**Mizzen Quarter Width**	**m**	**ERS**	**G.7.4**	
EHSC	MZQW						
ERS		G.7.4	Quarter Width				
IMS	MGLY	838	Mizzen Girth, Lower				
Proposed Term	**ZHW**		**Mizzen Half Width**	**m**	**ERS**	**G.7.5**	
EHSC	MZHW						
ERS		G.7.5	Half Width				
IMS	MGMY	838	Mizzen Girth, Mid				
PHRF	MGM						
Proposed Term	**ZTQW**		**Mizen Three Quarter Width**	**m**	**ERS**	**G.7.6**	
EHSC	MZTQW						
ERS		G.7.6	Three-Quarter Width				
IMS	MGUY	838	Mizzen Girth Upper				
PHRF	MGU						
Proposed Term	**ZUW**		**Mizzen Upper Width**	**m**	**ERS**	**G.7.7**	
EHSC	MZUW						
ERS		G.7.7	Upper Width 7/8				
IMS	MGTY	838	Mizzen Girth, Top				
PHRF	MGT						
Proposed Term	**ZTW**		**Mizzen Top Width**	**m**	**ERS**	**G.7.8**	
EHSC	MZTW						
ERS		G.7.8	Top Width				
IMS	HBY	836	Headboard of Mizzen				
Proposed Term	**ZFM**		**Mizzen Foot Median**	**m**	**ERS**	**G.7.10**	
EHSC	MZFM						
ERS		G.7.10	Foot Median				
Proposed Term	**ZHL**		**Mizzen Head Length**	**m**	**ERS**	**G.7.12**	
EHSC	MZHL						
ERS		G.7.12	Head Length				
Headsail:							
Proposed Term	**HF**		**Headsail Foot**	**m**	**ERS**	**G.7.1**	
EHSC	JF						
ERS		G.7.1	Foot Length				
Proposed Term	**HLE**		**Headsail Leech**	**m**	**ERS**	**G.7.2**	
EHSC	JLE						
ERS		G.7.2	Leach Length				
Proposed Term	**HLU**		**Headsail Luff**	**m**	**ERS**	**G.7.3**	

EHSC	JLU						
ERS		G.7.3	Luff Length				
IRC	LL						
HN	GG						
Proposed Term	**HQW**		**Headsail Quarter Width**	**m**	**ERS**	**G.7.4**	
EHSC	JQW						
ERS		G.7.4	Quarter Width				
Proposed Term	**HHW**		**Headsail Half Width**	**m**	**ERS**	**G.7.5**	
EHSC	JHW						
ERS		G.7.5	Half Width				
IRC	HHW						
Proposed Term	**HTQW**		**Headsail Three Quarter Width**	**m**	**ERS**	**G.7.6**	
EHSC	JTQW						
ERS		G.7.6	Three-Quarter Width				
Proposed Term	**HUW**		**Headsail Upper Width**	**m**	**ERS**	**G.7.7**	
EHSC	JUW						
ERS		G.7.7	Upper Width 7/8				
Proposed Term	**HTW**		**Headsail Top Width**	**m**	**ERS**	**G.7.8**	
EHSC	JTW						
ERS		G.7.8	Top Width				
Proposed Term	**HFM**		**Headsail Foot Median**	**m**	**ERS**	**G.7.10**	
EHSC	JFM						
ERS		G.7.10	Foot Median				
Proposed Term	**HLP**		**Headsail Longest Perpendicular**	**m**	**ERS**	**G.7.11**	
EHSC	JLP						
ERS		G.7.11	Luff Perpendicular				
IMS	LPG	813	Longest Perpendicular of jibs				
IRC	LP						
HN	LPG						
PHRF	LP						
Spinnaker code:							
	SC: NS/SS/AC/AP		Spinnaker Code	string			No Spinnaker/Symmetric Spinnaker/Asymmetric tacked in CenterLine/Asymmetric on Pole
Symmetric Spinnaker:							
Proposed Term	**SF**		**Spinnaker Foot**	**m**	**ERS**	**G.7.1**	
ERS		G.7.1	Foot Length				
IMS	SF	821	Symmetric Spinnaker Foot Length				
IRC	SF						
PHRF	SF						
Proposed Term	**SLE**		**Spinnaker Leech**	**m**	**ERS**	**G.7.2**	
Proposed Term	**SLU**		**Spinnaker Luff**	**m**	**ERS**	**G.7.3**	
Proposed Term	**SL**		**Spinnaker Luff/Leech**	**m**	**ERS**	**G.7.2/G.7.3**	
ERS		G.7.2/G.7	Luff/Leach Length				
IMS	SL	820	Symmetric Spinnaker Luff/Leach				
IRC	SLE						
HN	SL						
PHRF	SL						
Proposed Term	**SMW**		**Spinnaker Maximum Width**	**m**	**IMS**	**819.1**	
ERS	SMW	819	Symmetric Spinnaker Maximum				
IRC	SMW						
HN	SMW						
Proposed Term	**SQW**		**Spinnaker Quarter Width**	**m**	**ERS**	**G.7.4**	
ERS		G.7.4	Quarter Width				
Proposed Term	**SHW**		**Spinnaker Half Width**	**m**	**ERS**	**G.7.5**	
ERS		G.7.5	Half Width				
IRC	SHW						
Proposed Term	**STQW**		**Spinnaker Three Quarter**	**m**	**ERS**	**G.7.6**	
ERS		G.7.6	Three-Quarter Width				
Proposed Term	**SUW**		**Spinnaker Upper Width**	**m**	**ERS**	**G.7.7**	
ERS		G.7.7	Upper Width 7/8				
Proposed Term	**STW**		**Spinnaker Top Width**	**m**	**ERS**	**G.7.8**	
ERS		G.7.8	Top Width				
IMS	HBS	818	Spinnaker Headboard				
Proposed Term	**SD**		**Spinnaker Diagonal**	**m**	**ERS**	**G.7.9**	
ERS		G.7.9	Diagonal				
Proposed Term	**SFM**		**Spinnaker Foot Median**	**m**	**ERS**	**G.7.10**	
ERS		G.7.10	Foot Median				
Asymmetric Spinaker:							
Proposed Term	**AF**		**Asymmetric Spinnaker Foot**	**m**	**ERS**	**G.7.1**	

EHSC	ASF						
ERS		G.7.1	Foot Length				
IMS	ASF	821	Asymmetric Spinnaker Foot				
IRC	SF						
HN	SF						
PHRF	SF						
Proposed Term	**ALE**		**Asymmetric Spinnaker Leech**	**m**	**ERS**	**G.7.2**	
EHSC	ASLE						
ERS		G.7.2	Leach Length				
IMS	SLE	820.2(a)	Asymmetric Spinnaker Leech				
IRC	SLE						
HN	SLE						
PHRF	SLE						
Proposed Term	**ALU**		**Asymmatric Spinnaker Luff**	**m**	**ERS**	**G.7.3**	
EHSC	ASLU						
ERS		G.7.3	Luff Length				
IMS	SLU	820.2(b)	Asymmetric Spinnaker Luff				
IRC	SLU						
HN	SLU						
PHRF	SLU						
Proposed Term	**AL**		**Asymmetric Spinnaker**	**m**			**Calculated from ASLU and ASLE**
PHRF	SL						
Proposed Term	**AQW**		**Asymmetric Spinnaker**	**m**	**ERS**	**G.7.4**	
EHSC	ASQW						
ERS		G.7.4	Quarter Width				
Proposed Term	**AHW**		**Asymmetric Spinnaker Half**	**m**	**ERS**	**G.7.5**	
EHSC	ASHW						
ERS		G.7.5	Half Width				
IMS	AMG	822	Asymmetric Spinnaker Mid Girth				
IRC	SHW						
HN	SMG						
PHRF	ASMG						
Proposed Term	**ATQW**		**Asymmetric Spinnaker Three**	**m**	**ERS**	**G.7.6**	
EHSC	ASTQW						
ERS		G.7.6	Three-Quarter Width				
Proposed Term	**AUW**		**Asymmetric Spinnaker Upper**	**m**	**ERS**	**G.7.7**	
EHSC	ASUW						
ERS		G.7.7	Upper Width 7/8				
Proposed Term	**ATW**		**Asymmetric Spinnaker Top**	**m**	**ERS**	**G.7.8**	
EHSC	ASTW						
PHRF	SMU						
ERS		G.7.8	Top Width				
Proposed Term	**AD**		**Asymmetric Spinnaker**	**m**	**ERS**	**G.7.9**	
EHSC	ASD						
ERS		G.7.9	Diagonal				
Proposed Term	**AFM**		**Asymmetric Spinnaker Foot**	**m**	**ERS**	**G.7.10**	
EHSC	ASFM						
ERS		G.7.10	Foot Median				
Proposed Term	**ALP**		**Asymmetric Spinnaker Luff**	**m**	**ERS**	**G.7.11**	
Sail Areas:							
Proposed Term	**FTA**		**Fore Triangle Area**	**m*m**			**IG*J/2**
Proposed Term	**MTA**		**Main Trangle Area**	**m*m**			**P*E/2**
Proposed Term	**ZTA**		**Mizzen Triangle Area**	**m*m**			**PZ*EZ/2**
Proposed Term	**HTA**		**Head Sail Triangle Area**	**m*m**			**HLU*HLP/2**
Proposed Term	**MSA**		**Main Sail Area**	**m*m**			**(E/2+MQW+MHW+MTQW+MTW/2)*P/4**
Proposed Term	**ZSA**		**Mizzen Sail area**	**m*m**			**(EZ/2+ZQW+ZHW+ZTQW+ZTW/2)*PZ/2**
Proposed Term	**HSA**		**Head Sail Area**	**m*m**			**If Roach = (HLU*HLP)/2+(2/3)*(HHW-HLP/2)*HLE, else = HTA**
Proposed Term	**SSA**		**Symmetric Spinnaker Sail Area**	**m*m**			**1,032*(SL*SF/2+(2/3)*SL*(SHW-SF/2))=1,03*SL*(4*SHW+SF)/6. With no SF: 0,855*SL*SHW (corresponds to SF=0,97*SHW)**
Proposed Term	**ASA**		**Asymmetric Spinnaker Sail Area**	**m*m**			**AL*AF/2+(2/3)*AL*(AHW-AF/2)=AL*(4*AHW+AF)/6; AL=(ALU+ALE(/2**
Proposed Term	**None**			**m*m**			
ISO	A_S	5.5.2	Projected sail area				