

<b>BOAT</b>
Name <b>MARIA-ELENI</b> Sail Nr <b>GRE-892</b>

<b>GPH</b>
<b>745,3</b>

<b>HULL</b>					
Length Overall	<b>10,195 m</b>				
Maximum Beam	<b>3,528 m</b>				
Displacement	<b>5,920 kg</b>				
Draft	<b>0,842 m</b>				
IMS Reg. Division	<b>Cruiser/Racer</b>				
Dynamic Allowance	<b>0,959%</b>				
Fwd Accommodation	<b>Yes</b>				
Hull Construction	<b>Solid</b>				
Carbon Rudder	<b>No</b>				
Crew Arm Extension					
IMS L	<b>8,422</b>	VCGD	<b>0,138</b>	VCGM	<b>0,092</b>
Sink	<b>16,44 kg/mm</b>	Wetted Area	<b>20,92 m<sup>2</sup></b>		



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**2011**  
ORC International  
Certificate

<b>GENERAL</b>
Class <b>NEPTUNE 99</b>
Designer <b>TORTAROLO</b>
Builder <b>NEPTUNE</b>
Series <b>06/1979</b>
Age <b>04/1982</b>
Age Allowance <b>0,975%</b>
Offset File <b>F079.BOF - 25/1/2014 10:30:02</b>
Measurement by <b>THEODOSSIS - 10/03/2001</b>

<b>SCORING OPTIONS</b>						
	<b>OFFSHORE COASTAL / LONG DISTANCE</b>			<b>INSHORE WINDWARD / LEEWARD</b>		
Time On Distance	<b>745,3</b>			<b>812,8</b>		
Time On Time	<b>0,8050</b>			<b>0,8305</b>		
Performance Line	PLT	PLD		PLT	PLD	
	<b>0,662</b>	<b>67,9</b>		<b>0,644</b>	<b>153,1</b>	
Triple Number	Low	Medium	High	Low	Medium	High
	<b>0,7710</b>	<b>1,0287</b>	<b>1,1898</b>	<b>0,5941</b>	<b>0,8191</b>	<b>0,9786</b>

**Rating Office**

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<b>TIME ALLOWANCES</b>							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	<b>1334,6</b>	<b>1096,7</b>	<b>974,4</b>	<b>896,5</b>	<b>854,8</b>	<b>828,6</b>	<b>803,8</b>
52°	<b>855,3</b>	<b>716,3</b>	<b>637,5</b>	<b>593,0</b>	<b>568,2</b>	<b>555,1</b>	<b>541,9</b>
60°	<b>799,8</b>	<b>674,1</b>	<b>605,9</b>	<b>563,3</b>	<b>540,2</b>	<b>529,5</b>	<b>518,0</b>
75°	<b>758,6</b>	<b>642,3</b>	<b>580,0</b>	<b>541,3</b>	<b>517,8</b>	<b>502,9</b>	<b>488,7</b>
90°	<b>770,3</b>	<b>639,3</b>	<b>568,3</b>	<b>529,3</b>	<b>512,8</b>	<b>501,6</b>	<b>476,8</b>
110°	<b>760,5</b>	<b>632,7</b>	<b>563,8</b>	<b>524,2</b>	<b>498,2</b>	<b>478,4</b>	<b>460,4</b>
120°	<b>783,7</b>	<b>648,8</b>	<b>575,7</b>	<b>531,6</b>	<b>504,1</b>	<b>482,7</b>	<b>451,3</b>
135°	<b>870,0</b>	<b>710,9</b>	<b>617,4</b>	<b>560,0</b>	<b>524,1</b>	<b>499,1</b>	<b>461,5</b>
150°	<b>1024,6</b>	<b>807,6</b>	<b>687,0</b>	<b>609,7</b>	<b>558,2</b>	<b>524,5</b>	<b>480,2</b>
Run VMG	<b>1183,2</b>	<b>930,1</b>	<b>783,2</b>	<b>682,9</b>	<b>612,8</b>	<b>563,2</b>	<b>504,7</b>

<b>Certificate</b>
Number <b>000463</b>
ORC Ref <b>GRE00018963</b>
Issued On <b>12/5/2011</b>
VPP Ver. <b>2011 1.02</b>
Valid until <b>1/3/2012</b>

<b>Crew Weight</b>
Declared <b>400 kg</b>
Default* <b>546 kg</b>
Non Manual Pwr <b>No</b>

<b>Special Scoring</b>
ToD ToT
D. Hand OSN <b>747,8</b> <b>0,8023</b>
Non Spin. OSN <b>776,3</b> <b>0,7729</b>
N/S Perf. Line <b>46,3</b> <b>0,610</b>

<b>Selected Courses</b>							
Windward / Leeward	<b>1282,8</b>	<b>1030,0</b>	<b>889,7</b>	<b>800,4</b>	<b>742,5</b>	<b>703,9</b>	<b>661,7</b>
Circular Random	<b>1045,3</b>	<b>837,0</b>	<b>722,5</b>	<b>653,6</b>	<b>609,9</b>	<b>580,9</b>	<b>545,7</b>
Ocean for PCS	<b>1112,7</b>	<b>873,0</b>	<b>737,0</b>	<b>652,1</b>	<b>595,6</b>	<b>555,7</b>	<b>501,1</b>
Non Spinnaker	<b>1098,5</b>	<b>875,7</b>	<b>752,0</b>	<b>676,9</b>	<b>628,6</b>	<b>596,3</b>	<b>556,4</b>

<b>Sails Limitations</b>		
Genoas <b>1</b>	Jibs <b>0</b>	Spinnakers <b>3</b>
Spinnaker configuration <b>Symmetric</b>		

<b>Velocity Prediction in Knots for True Wind Speeds</b>							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat Angles	<b>45,1°</b>	<b>43,2°</b>	<b>43,3°</b>	<b>42,9°</b>	<b>41,6°</b>	<b>40,8°</b>	<b>40,4°</b>
Beat VMG	<b>2,70</b>	<b>3,28</b>	<b>3,69</b>	<b>4,02</b>	<b>4,21</b>	<b>4,34</b>	<b>4,48</b>
52°	<b>4,21</b>	<b>5,03</b>	<b>5,65</b>	<b>6,07</b>	<b>6,34</b>	<b>6,48</b>	<b>6,64</b>
60°	<b>4,50</b>	<b>5,34</b>	<b>5,94</b>	<b>6,39</b>	<b>6,66</b>	<b>6,80</b>	<b>6,95</b>
75°	<b>4,75</b>	<b>5,61</b>	<b>6,21</b>	<b>6,65</b>	<b>6,95</b>	<b>7,16</b>	<b>7,37</b>
90°	<b>4,67</b>	<b>5,63</b>	<b>6,33</b>	<b>6,80</b>	<b>7,02</b>	<b>7,18</b>	<b>7,55</b>
110°	<b>4,73</b>	<b>5,69</b>	<b>6,38</b>	<b>6,87</b>	<b>7,23</b>	<b>7,52</b>	<b>7,82</b>
120°	<b>4,59</b>	<b>5,55</b>	<b>6,25</b>	<b>6,77</b>	<b>7,14</b>	<b>7,46</b>	<b>7,98</b>
135°	<b>4,14</b>	<b>5,06</b>	<b>5,83</b>	<b>6,43</b>	<b>6,87</b>	<b>7,21</b>	<b>7,80</b>
150°	<b>3,51</b>	<b>4,46</b>	<b>5,24</b>	<b>5,90</b>	<b>6,45</b>	<b>6,86</b>	<b>7,50</b>
Run VMG	<b>3,04</b>	<b>3,87</b>	<b>4,60</b>	<b>5,27</b>	<b>5,87</b>	<b>6,39</b>	<b>7,13</b>
Gybe Angles	<b>146,0°</b>	<b>153,4°</b>	<b>164,0°</b>	<b>169,5°</b>	<b>180,0°</b>	<b>180,0°</b>	<b>180,0°</b>

<b>Storm Sails Areas</b>
Heavy Weather Jib <b>21,20</b>
Storm Jib (JL=8,15) <b>7,85</b>
Storm Trysail <b>6,22</b>

<b>Owner</b>

<b>BOAT</b>	
Name <b>MARIA-ELENI</b>	Sail Nr <b>GRE-892</b>
File <b>(0)</b>	Data in <b>meters/kilograms</b>

<b>INCLINING TEST AND FREEBOARDS</b>		
Inclining Test <b>Current Inclining</b>		
Flotation date <b>27/03/2006</b>	SG <b>1,0270</b>	
FFM <b>1,014</b>	FF <b>1,013</b>	SFFP <b>0,856</b>
FAM <b>0,974</b>	FA <b>0,973</b>	SAFP <b>9,211</b>
W1 <b>61,000</b>	PD1 <b>270,0</b>	WD <b>10,870</b>
W2 <b>61,000</b>	PD2 <b>270,0</b>	GSA <b>28,3</b>
W3 <b>61,000</b>	PD3 <b>270,0</b>	RSA <b>5674,0</b>
W4 <b>61,000</b>	PD4 <b>270,0</b>	PLM <b>2115,0</b>
LCF from stem on CL / on sheer		<b>5,429 / 0,000</b>
Maximum beam station from stem		<b>6,061</b>
RM Measured / Default		<b>92,2 / 80,0</b>
Limit of positive stability / Stab.Index		<b>110,3° / 112,0</b>
Freeboard at mast at 4,231		<b>0,995</b>

<b>RIG</b>			
Forestay Tension <b>Aft</b>	Spreaders <b>1</b>		Runners <b>0</b>
Inner Stay <b>Adjustable</b>	Jumper Struts <b>None</b>		Jib Furler <b>Yes</b>
Carbon Mast <b>No</b>	Main Furler <b>No</b>		Without Backstay <b>No</b>
Taper Hollows <b>No</b>	Articulated Bowsprit <b>No</b>		
Fiber Rigging <b>No</b>			
Lenticular Rigging <b>No</b>			
P <b>10,900</b>	E <b>3,260</b>	MDT1 <b>0,120</b>	TL <b>0,000</b>
IG <b>12,472</b>	J <b>4,231</b>	MDL1 <b>0,190</b>	MWT
ISP <b>12,500</b>	SFJ <b>0,000</b>	MDT2 <b>0,120</b>	MCG
SPS <b>2,912</b>	SPL <b>3,909</b>	MDL2 <b>0,190</b>	CPW <b>2,225</b>
BAS <b>1,452</b>	TPS	MW <b>0,190</b>	BD <b>0,110</b>
BAL <b>0,152</b>	FSP <b>0,082</b>	GO <b>0,210</b>	BWT

<b>MIZZEN RIG AND SAILS</b>	
N/A	

<b>COMMENTS</b>

<b>PROPELLER</b>		
Installation <b>Shaft exposed</b>	PRD <b>0,420</b>	
Type <b>Solid 3 blades</b>	PBW <b>0,160</b>	
Twin Screw <b>No</b>	PIPA <b>0,0106</b>	
PSA <b>21,000</b>	PHL <b>0,033</b>	ST3 <b>ESL</b>
PSD <b>0,030</b>	ST1	ST4
PHD <b>0,050</b>	ST2	ST5

<b>MOVEABLE BALLAST</b>	
N/A	

<b>CENTERBOARD</b>			
ECM <b>1,040</b>	CBDA <b>0,500</b>	CBRC <b>0,630</b>	
KCDA	WCBB	CBMC <b>0,610</b>	
WCBA <b>200,0</b>	CBDB	CBTC <b>0,600</b>	



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<b>SAILS (Maximum Areas)</b>									
Mainsail	HB	MGT	MGU	MGM	MGL	Area	Area (r)	Formula	
	0,140	0,69	1,20	2,10	2,78	21,23	21,54	P/8 · (E + 2·MGL + 2·MGM + 1.5·MGU + MGT + 0.5·HB)	
Jib/Genoa	JH	JGT	JGU	JGM	JGL	JL	LPG		
	0,00	0,68	1,36	2,73	4,09	12,35	5,45	0.1125·JL·(1.445·LPG+2·JGL+2·JGM+1.5·JGU+JGT+0.5·JH)	
Symmetric	SL	SMG	SF				Area (r)		
	10,62	5,60	7,62				53,13	63,65 SL · (SF + 4·SMG) / 6	
<b>Asymmetric</b> Not Available									
<b>Code Zero</b> Not Available									

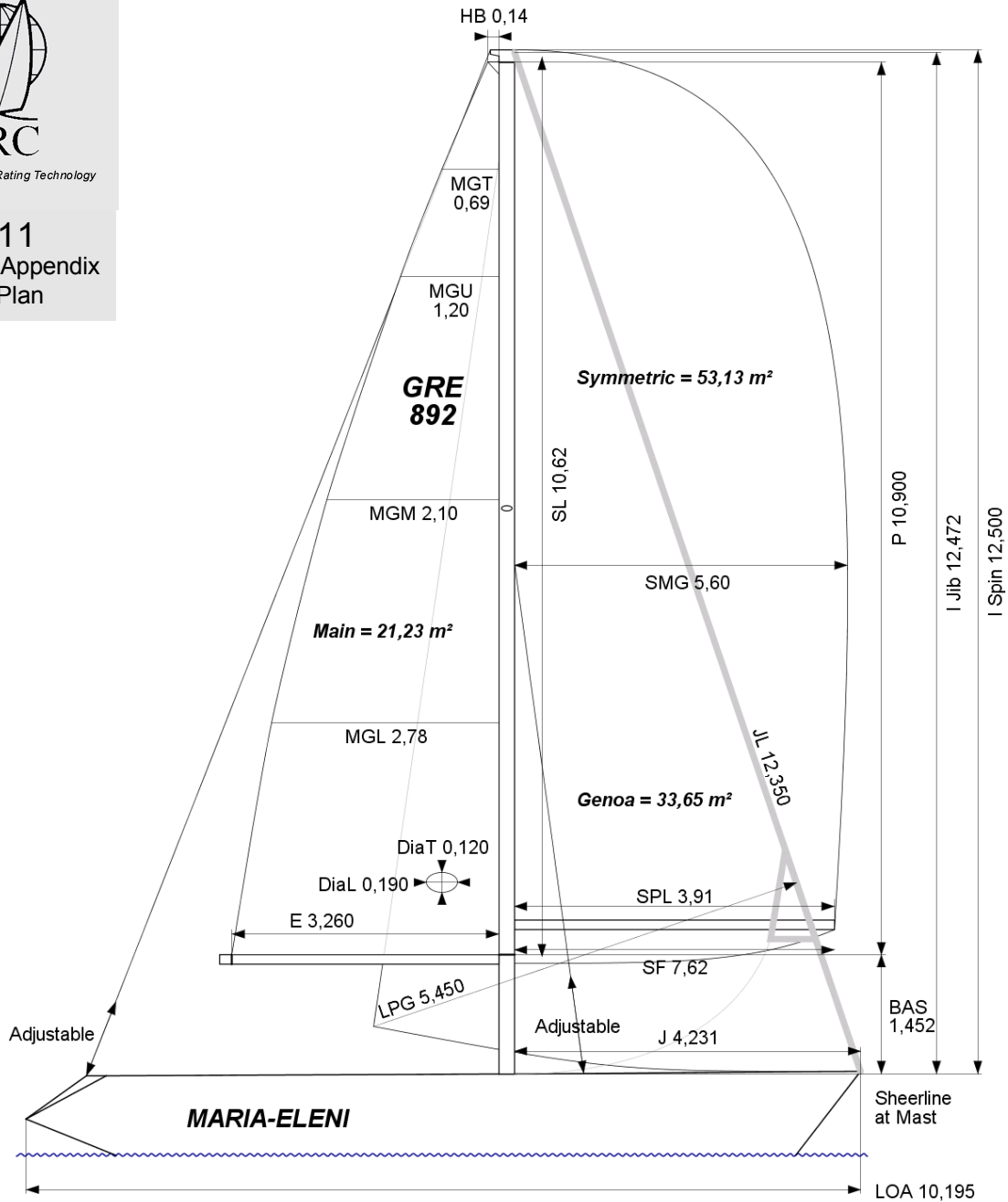
<b>MEASUREMENT INVENTORY</b>			
Measurer	Date	Comment	
OR	Anchor	15,0	1,00 *Legacy Anchor*
Id	Item	Weight	Description

<b>MEASUREMENT INVENTORY</b>					
Id	Item	Weight	Distance	VCG	Description



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Certificate Appendix  
Sail Plan



**SAILS INVENTORY**

**MANSAL**

Id	HB	MGT	MGU	MGM	MGL	Area	Measurer	Meas.Date	Manufacture	Material	Comment
ORC	0,140	0,69	1,20	2,10	2,78	21,23					* Copied from legacy

**JIBS / GENOAS**

Id	JH	JGT	JGU	JGM	JGL	LPG	JL	Ovrlp	Area	Measurer	Meas.Date	Manufacture	Material	Comment
ORC						5,45	12,35	129%	35,17					* Copied from

**SYMMETRIC SPINNAKERS**

Id	SL	SMG	SF	Area	Measurer	Meas.Date	Manufacture	Material	Comment
ORC	10,62	5,60	0,00	53,13					* Copied from legacy *

**ASYMMETRIC SPINNAKERS**

Id	SLU	SLE	ASL	AMG	ASF	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment
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