


BOAT
Name DIMITRA Sail Nr GRE-1096

GPH
683,1

HULL
Length Overall 11,300 m
Maximum Beam 3,846 m
Displacement 7.640 kg
Draft 1,656 m
IMS Reg. Division Cruiser/Racer
Dynamic Allowance 1,400%
Fwd Accommodation Yes
Hull Construction Solid
Carbon Rudder No
Crew Arm Extension
IMS L 9,833 VCGD 0,131 VCGM 0,169
Sink 20,94 kg/mm Wetted Area 29,17 m²



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GENERAL
Class OCEANIS 390
Designer Ph. BRIAND
Builder
Series 01/1988
Age 01/1988
Age Allowance 0,975%
Offset File H190.BOF - 16/5/2007 11:36:14
Measurement by VOGIATZIS/BOULTZIS - 07/08/2004

SCORING OPTIONS						
	OFFSHORE			INSHORE		
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time On Distance	683,1			758,1		
Time On Time	0,8784			0,8904		
Performance Line	PLT	PLD		PLT	PLD	
	0,728	73,0		0,712	170,8	
Triple Number	Low	Medium	High	Low	Medium	High
	0,8481	1,1215	1,2784	0,6376	0,8814	1,0379

Rating Office

Hellenic Sailing Federation
Offshore Committee
Επιτροπή
Ανοικτής Θαλάσσης
Ελληνικής
Ιστιοπλοϊκής Ομοσπονδίας



TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1262,2	1031,0	913,7	849,8	809,9	786,1	775,9
52°	786,5	647,1	580,8	548,0	529,3	518,0	507,8
60°	714,6	596,2	544,9	515,7	500,3	491,2	481,8
75°	659,0	561,4	517,2	491,5	473,0	460,1	449,2
90°	647,2	548,3	504,3	478,4	464,9	453,8	432,6
110°	666,7	551,9	500,8	472,9	451,4	432,8	412,0
120°	685,5	566,2	515,6	484,1	459,7	439,1	406,2
135°	792,1	632,0	550,8	507,4	479,3	456,8	420,2
150°	944,5	737,0	617,7	548,9	508,6	481,4	440,6
Run VMG	1090,6	851,0	711,7	620,7	561,7	521,2	470,9

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VPP Ver. 2011 1.02
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Selected Courses							
Windward / Leeward	1197,7	956,4	824,4	744,9	694,2	661,4	630,5
Circular Random	953,7	764,5	662,0	601,6	564,1	539,5	510,3
Ocean for PCS	1021,4	800,7	676,6	599,9	548,8	512,3	461,1
Non Spinnaker	1010,4	804,1	690,7	622,9	580,2	552,3	519,4

Crew Weight	
Declared	680 kg
Default*	663 kg
Non Manual Power	No

Special Scoring		
	ToD	ToT
Double Handed	685,6	0,8752
Non Spinnaker	713,5	0,8409
N/S Perf. Line	45,8	0,660

Velocity Prediction in Knots for True Wind Speeds							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat Angles	47,9°	46,9°	46,5°	45,2°	43,5°	42,8°	43,8°
Beat VMG	2,85	3,49	3,94	4,24	4,44	4,58	4,64
52°	4,58	5,56	6,20	6,57	6,80	6,95	7,09
60°	5,04	6,04	6,61	6,98	7,20	7,33	7,47
75°	5,46	6,41	6,96	7,32	7,61	7,82	8,01
90°	5,56	6,57	7,14	7,52	7,74	7,93	8,32
110°	5,40	6,52	7,19	7,61	7,98	8,32	8,74
120°	5,25	6,36	6,98	7,44	7,83	8,20	8,86
135°	4,54	5,70	6,54	7,10	7,51	7,88	8,57
150°	3,81	4,88	5,83	6,56	7,08	7,48	8,17
Run VMG	3,30	4,23	5,06	5,80	6,41	6,91	7,65
Gybe Angles	143,9°	148,0°	152,0°	161,5°	168,2°	172,3°	174,9°

Sails Limitations		
Genoas	Jibs	Spinnakers
3	2	3
Spinnaker configuration Asymmetric-Pole		

Storm Sails Areas	
Heavy Weather Jib	28,51
Storm Jib (JL=9,45)	10,56
Storm Triesail	10,40

Owner

BOAT	
Name DIMITRA File GR1096.dxt	Sail Nr GRE-1096 Data in meters/kilograms

INCLINING TEST AND FREEBOARDS		
Inclining Test Current Inclining		
Flotation date 14/05/2011		SG
FFM 1,295	FF 1,295	SFFP 0,486
FAM 1,097	FA 1,097	SAFP 10,477
W1 80,000	PD1 248,0	WD 11,550
W2 80,000	PD2 249,0	GSA 78,5
W3 80,000	PD3 250,0	RSA 33962,
W4 80,000	PD4 251,0	PLM 2070,0
Maximum beam station from stem		6,945
RM Measured / Default		133,8 / 142,5
Limit of positive stability		109,9°
Stability Index		112,5
Freeboard at mast at 4,410		1,164



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RIG			
Forestay Tension Aft	Spreaders 2		
Inner Forestay Fixed	Runners 0		
Carbon Mast No	Jumper Struts None		
Taper Hollows No	Jib Furler No		
Fiber Rigging No	Main Furler No		
Lenticular Rigging No	Without Backstay No		
Articulated Bowsprit No			
P 12,650	E 4,700	MDT1 0,136	TL 1,170
IG 14,281	J 4,410	MDL1 0,206	MWT
ISP 14,481	SFJ 0,000	MDT2 0,136	MCG
SPS 2,641	SPL 4,428	MDL2 0,180	CPW 2,485
BAS 1,641	TPS 4,350	MW 0,180	BD 0,150
BAL 0,176	FSP 0,072	GO 0,256	BWT

PROPELLER		
Installation Shaft	PRD 0,475	
Type Feathering 3 blades	PBW 0,120	
Twin Screw No	PIPA 0,0028	
PSA	PHL 0,186	ST3
PSD 0,025	ST1	ST4
PHD 0,097	ST2	ST5

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MIZZEN RIG AND SAILS	
N/A	

WATER BALLAST		
N/A		

COMMENTS

CENTERBOARD		
N/A		

SAILS (Maximum Areas)									
Mainsail	HB	MGT	MGU	MGM	MGL	MSW	Area	Area (r)	Formula
	0,142	0,93	1,72	2,95	3,93	16,00	34,85	35,58	$P/8 \cdot (E + 2 \cdot MGL + 2 \cdot MGM + 1.5 \cdot MGU + MGT + 0.5 \cdot HB)$
Jib/Genoa	JH	JGT	JGU	JGM	JGL	JL	LPG	45,06	$0.1125 \cdot JL \cdot (1.445 \cdot LPG + 2 \cdot JGL + 2 \cdot JGM + 1.5 \cdot JGU + JGT + 0.5 \cdot JH)$
Symmetric	SL	SMG	SF	94,92	$SL \cdot (SF + 4 \cdot SMG) / 6$				
Asymmetric	SLU	SLE	ASL	AMG	ASF	91,25	$ASL \cdot (ASF + 4 \cdot AMG) / 6$		

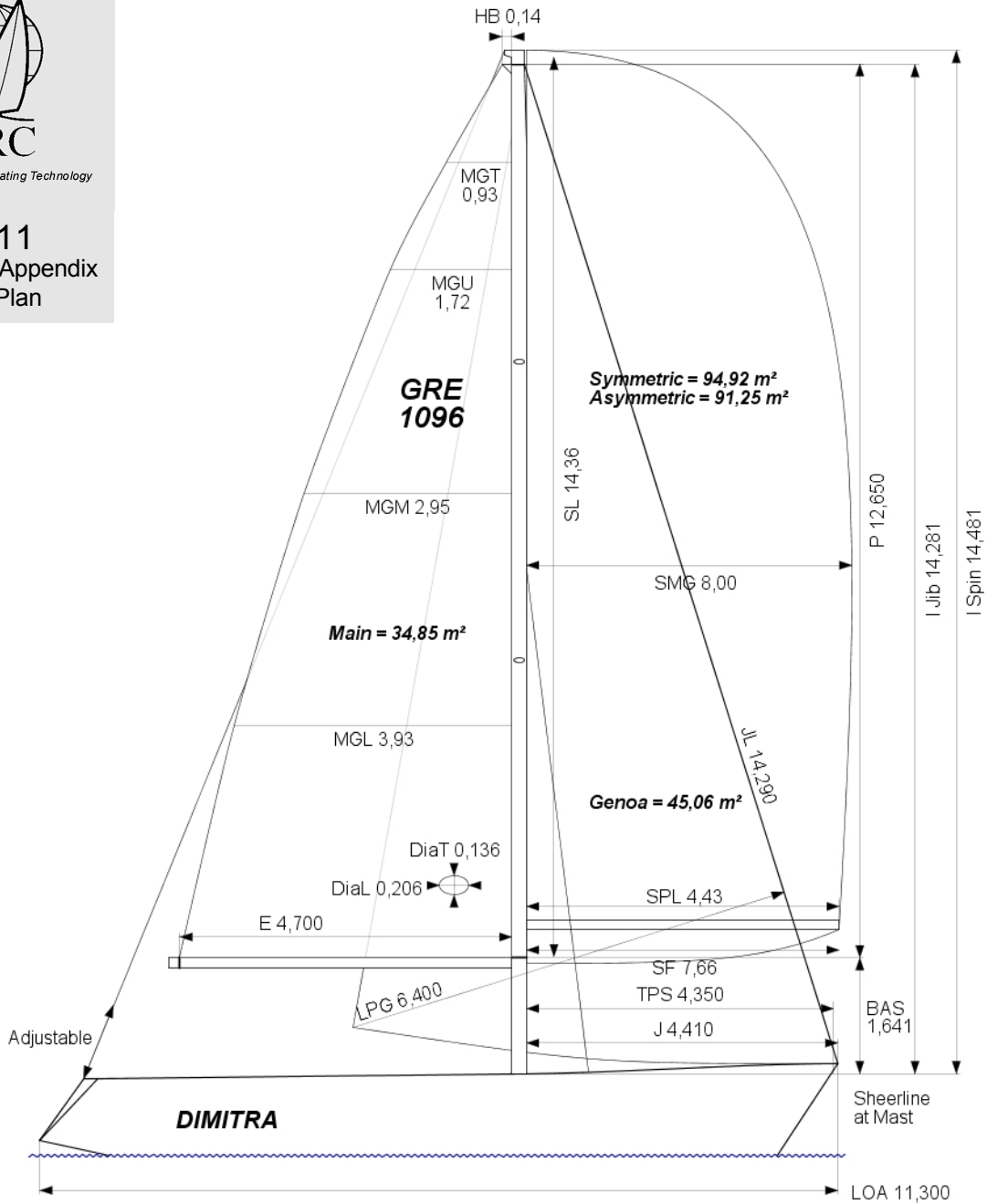
MEASUREMENT INVENTORY			
Measurer BOULTZIS/HRISTOFORIDIS GRE-22/GRE-43			
Date 13/05/2011			
Comment			
Id	Item	Weight	Distanc Description
2	Anchor	12,0	9,30 Bow
1	Anchor	22,0	0,85 Stern
2	Chain	10,0	9,30 Bow
1	Chain	127,0	0,85 Stern
1	Tools	17,0	5,90
Id	Item	Maker	Model
1	Engine	YANMAR	55 HP
Id	Item	Weight Description	

MEASUREMENT INVENTORY						
Id	Item	Tank Use	Tank Type	Capct	Dist.	Condt Description
4	Liquid Tank	WATER	PLASTIC	220,0	1,50	0,0 EMPTY
2	Liquid Tank	WATER	PLASTIC	220,0	9,30	0,0 EMPTY
3	Liquid Tank	WATER	PLASTIC	220,0	4,40	0,0 EMPTY
1	Liquid Tank	DIESEL	INOX	220,0	9,30	0,0 EMPTY
Id	Item	Weight	Distanc Description			
1	Battery	105,0	8,50 3X105Ah			
3	Miscellaneous	12,0	9,30 2 Fire extinguishers			
2	Miscellaneous	25,0	10,50 Bimini			
1	Miscellaneous	18,0	1,10 Windlass			



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Sail Plan



SAILS INVENTORY

MANSAIL

Id	HB	MGT	MGU	MGM	MGL	MSW	Area	Measurer	Meas.Date	Manufacture	Material	Comment
1	0,140	0,78	1,44	2,57	3,50	16,00	31,39	BOULTZIS	15/05/2006		Dacron	
1	0,142	0,93	1,72	2,95	3,93	17,00	34,85	KALATZIS	20/04/2010	QUANTUM	Kevlar	

JIBS / GENOAS

Id	JH	JGT	JGU	JGM	JGL	LPG	JL	Ovrlp	Area	Measurer	Meas.Date	Manufacture	Material	Comment
1	0,00	0,00	0,00	0,00	0,00	6,39	13,86	145%	44,29	BOULTZI	15/05/2006		Dacron	
2	0,00	0,00	0,00	0,00	0,00	6,44	13,76	146%	44,31	BOULTZI	08/07/2004		Dacron	
3	0,05	0,30	0,57	1,19	1,86	2,64	7,65	60%	9,55	VOGIATZI	31/07/2008		Dacron	STORM JIB
2	0,12	0,55	1,00	1,98	3,02	4,21	13,87	95%	28,39	KALATZIS	29/04/2010	QUANTUM	Kevlar	#3
1	0,11	0,82	1,54	3,09	4,71	6,40	14,29	145%	45,07	KALATZIS	29/04/2010	QUANTUM	Kevlar	#1

SYMMETRIC SPINNAKERS

Id	SL	SMG	SF	Area	Measurer	Meas.Date	Manufacture	Material	Comment
1	14,16	7,84	7,76	92,32	BOULTZIS	15/05/2006		Nylon	
2	14,36	8,00	7,66	94,92	HRISTOFORIDIS	14/05/2011	QUANTUM	Nylon	

ASYMMETRIC SPINNAKERS

Id	SLU	SLE	ASL	AMG	ASF	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment
1	14,84	13,20	14,02	7,78	7,93	91,25	asym	BOULTZIS	15/05/2006	QUANTUM	Unknown	
2	14,56	13,36	13,96	7,61	8,20	89,90	asym	HRISTOFORIDIS	14/05/2011	QUANTUM	Nylon	