

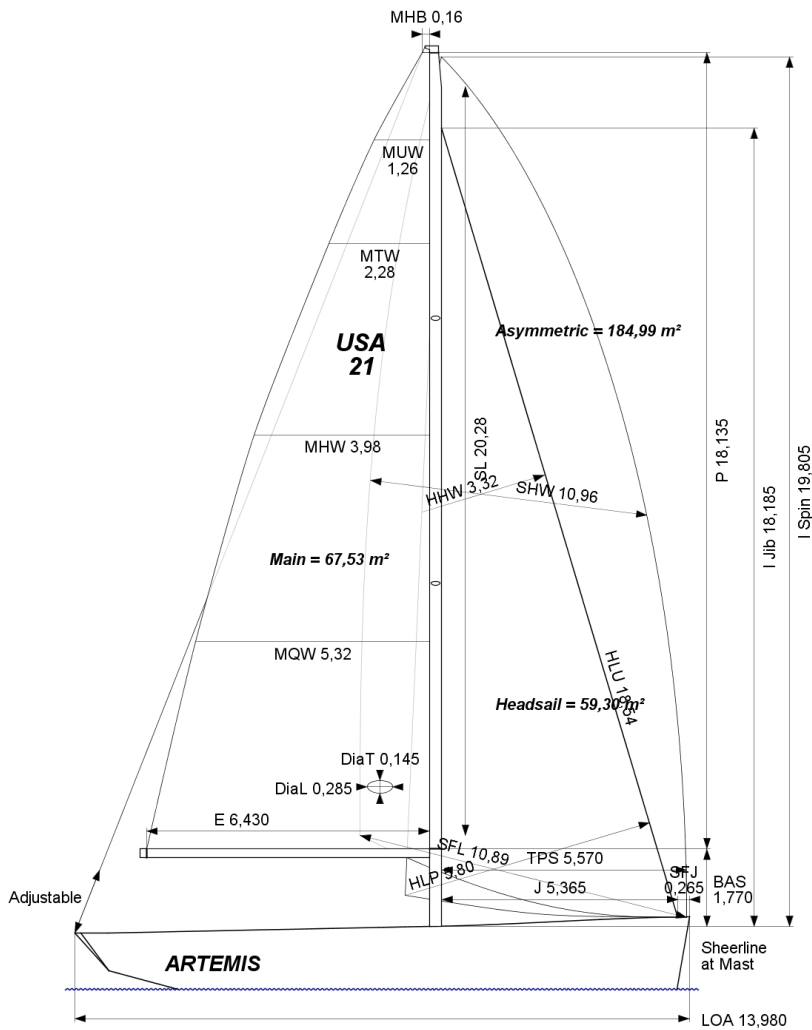
Rating Office

**Offshore
Racing
Congress**



Certificate

Number **US6509**
Issued On **20/08/2020**
ORC Ref **034100000QE**
VPP Ver. **2020 1.02**
Valid until **31/12/2020**



BOAT	
Name	ARTEMIS
Sail Nr	USA 21

GPH	
	557.5

HULL	
Data File	US6509DH
Offset File	IY1398.OFF
Displacement	10,913kg
LOA	13.980m
MB	4.272m
Draft	2.569m

Crew Weight	
Default	170kg
Maximum	170kg
Non Manual Pwr	Sheets

CLASS	
Class	Italia 13.98
Designer	COSSUTTI
Builder	BARUFFALDI
Series	07/2012
Age Date	06/2019
Age Allowance	0.260%

IMS Division	Cruiser/Racer	Dynamic All.	0.055%
Fiber Rigging	No	Construction	Cored
Crew Arm Ex		Aramid Core	No
		Carbon Rudder	No
		Light Stanchions	No
IMSL	12.951m	VCGD	0.053m
RL	9.726m	VCGM	0.073m
WS	40.78m²	Sink	30.09kg/mm
LSM0	12.852m	Displacement/Length ratio	5.1408

Sails Limitations	
Headsails	6
Spinnakers	4

COMMENTS	

Water Ballast	0	Trim Tab	No
BLR Index	0.0000		

Asymmetric on centerline	
Symmetric	No
Asymmetric	Yes 184.99
Flying H/S	No
Spin. Pole	No

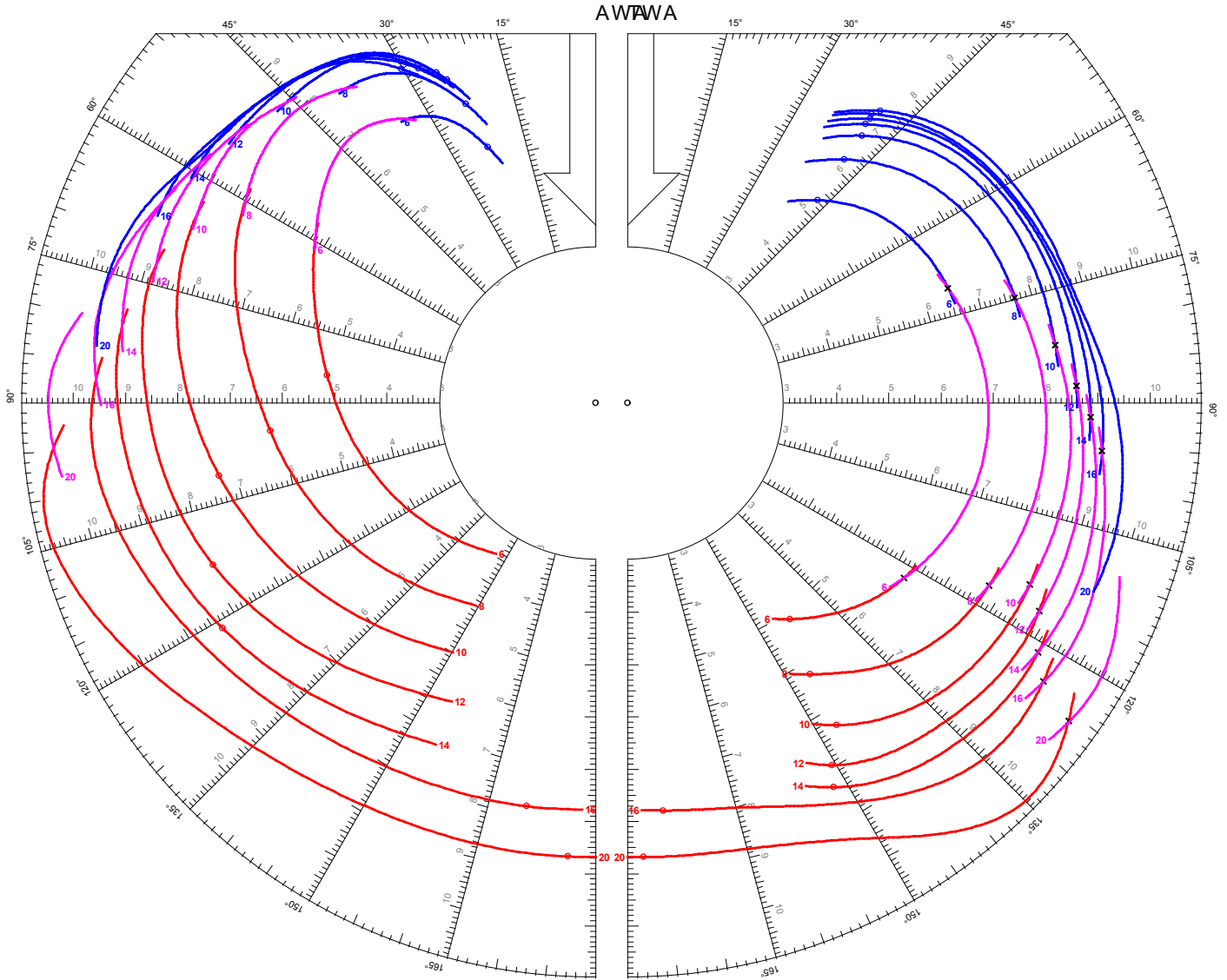
PROPELLER			
Installation	Strut	PRD	0.457
Type	Folding 3 blades	PBW	0.135
		PIPA	0.0039

CENTERBOARD	
N/A	

Stability (Measured)	
Limit Positive Stab.:	118.8°
Stability Index:	124.2

SCORING OPTIONS		
	Time on Distance	Time on Time
Coastal or Long Distance	546.1	1.0987
Circular Random	557.5	1.0762
Predominantly Upwind	544.3	1.1023
Predominantly Downwind	501.0	1.1975

Owner	



Polar Plot for Boat	
Name	ARTEMIS
Sail Number	USA 21
Class	Italia 13.98
Designer	COSSUTTI
Builder	BARUFFALDI
Issued On	20/08/2020 - VPP 2020 1.02

2020

Double Handed Certificate Appendix

BOAT			
Name	ARTEMIS	Certificate Number	US6509
Sail Nr	USA 21	Issued On	20/08/2020

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	931.2	775.4	706.2	677.1	664.2	652.3	645.2
52°	608.7	514.5	472.4	458.2	451.9	448.7	440.4
60°	575.1	488.4	452.9	441.0	435.7	433.1	425.8
75°	542.4	468.9	438.8	425.0	418.1	414.1	411.0
90°	522.7	451.1	427.3	417.3	407.5	397.5	386.8
110°	539.0	456.1	424.9	406.3	389.2	376.8	360.3
120°	567.7	469.3	428.7	407.6	391.9	373.2	344.7
135°	636.8	511.3	447.4	419.4	397.7	374.9	335.4
150°	756.9	602.9	507.5	451.5	426.7	409.9	375.9
Run VMG	874.0	696.2	586.0	521.3	491.3	463.3	415.7
Selected Courses							
Windward / Leeward	902.6	735.8	646.1	599.2	577.7	557.8	530.4
Circular Random	758.1	615.6	541.1	499.3	474.4	458.2	436.7
Coastal / Long Distance	899.7	689.2	579.3	518.1	487.2	459.2	413.7
Non Spinnaker	824.7	662.4	574.9	523.8	492.3	471.9	447.2

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	43.1°	41.6°	41.3°	40.5°	40.5°	40.1°	40.9°
Beat VMG	3.87	4.64	5.10	5.32	5.42	5.52	5.58
52°	5.91	7.00	7.62	7.86	7.97	8.02	8.18
60°	6.26	7.37	7.95	8.16	8.26	8.31	8.45
75°	6.64	7.68	8.20	8.47	8.61	8.69	8.76
90°	6.89	7.98	8.43	8.63	8.83	9.06	9.31
110°	6.68	7.89	8.47	8.86	9.25	9.55	9.99
120°	6.34	7.67	8.40	8.83	9.19	9.65	10.44
135°	5.65	7.04	8.05	8.58	9.05	9.60	10.73
150°	4.76	5.97	7.09	7.97	8.44	8.78	9.58
Run VMG	4.12	5.17	6.14	6.91	7.33	7.77	8.66
Gybe Angles	143.0°	146.0°	147.0°	150.5°	151.8°	175.0°	178.0°