Default Project
Hydrostatics & Stability Analysis
Default Company
Report Time: Tuesday, February 21, 2023, 5:27:09 PM
Model Name: C:\Users\hlebronriver2021\Desktop\Cat_multihull.3dm

Condition Summary

Load Condition Parameters

Condition	Weight / Sinkage	LCG / Trim	TCG / Heel	VCG (in)
Condition 1	10.000 lbf	0.000 deg	0.000 deg	0
Condition 2	15.000 lbf	0.000 deg	0.000 deg	0
Condition 3	20.000 lbf	0.000 deg	0.000 deg	0
Condition 4	25.000 lbf	0.000 deg	0.000 deg	0
Condition 5	30.000 lbf	0.000 deg	0.000 deg	0
Condition 6	35.000 lbf	0.000 deg	0.000 deg	0
Condition 7	40.000 lbf	0.000 deg	0.000 deg	0
Condition 8	45.000 lbf	0.000 deg	0.000 deg	0
Condition 9	50.000 lbf	0.000 deg	0.000 deg	0
Condition 10	55.000 lbf	0.000 deg	0.000 deg	0
Condition 11	60.000 lbf	0.000 deg	0.000 deg	0
Condition 12	65.000 lbf	0.000 deg	0.000 deg	0
Condition 13	70.000 lbf	0.000 deg	0.000 deg	0
Condition 14	75.000 lbf	0.000 deg	0.000 deg	0
Condition 15	80.000 lbf	0.000 deg	0.000 deg	0
Condition 16	85.000 lbf	0.000 deg	0.000 deg	0
Condition 17	90.000 lbf	0.000 deg	0.000 deg	0
Condition 18	95.000 lbf	0.000 deg	0.000 deg	0
Condition 19	100.000 lbf	0.000 deg	0.000 deg	0

Resulting Model Attitude and Hydrostatic Properties

Condition	Sinkage (in)	Trim(deg)	Heel(deg)	Ax(ft^2)
Condition 1	1.389	0.000	0.000	0.04
Condition 2	1.789	0.000	0.000	0.05
Condition 3	2.165	0.000	0.000	0.07
Condition 4	2.520	0.000	0.000	0.09
Condition 5	2.858	0.000	0.000	0.11
Condition 6	3.182	0.000	0.000	0.13
Condition 7	3.492	0.000	0.000	0.15
Condition 8	3.770	0.000	0.000	0.17
Condition 9	4.034	0.000	0.000	0.19
Condition 10	4.297	0.000	0.000	0.20
Condition 11	4.558	0.000	0.000	0.22
Condition 12	4.817	0.000	0.000	0.24
Condition 13	5.075	0.000	0.000	0.26
Condition 14	5.331	0.000	0.000	0.28
Condition 15	5.585	0.000	0.000	0.30
Condition 16	5.837	0.000	0.000	0.31
Condition 17	6.088	0.000	0.000	0.33
Condition 18	6.337	0.000	0.000	0.35
Condition 19	6.584	0.000	0.000	0.37

Condition	Displacement Weight (lbf)	LCB(in)	TCB(in)	VCB(in)	Wet Area (ft^2)
Condition 1	10.000	27.239	0.022	0.883	3.355
Condition 2	15.000	27.185	0.019	1.119	4.046
Condition 3	20.000	27.136	0.017	1.334	4.700
Condition 4	25.000	27.086	0.017	1.536	5.324
Condition 5	30.000	27.038	0.018	1.728	5.923
Condition 6	35.000	26.995	0.019	1.913	6.499
Condition 7	40.000	26.955	0.018	2.091	7.059
Condition 8	45.000	26.938	0.019	2.263	7.828
Condition 9	50.000	26.936	0.019	2.427	8.294
Condition 10	55.000	26.936	0.019	2.585	8.758
Condition 11	60.000	26.938	0.019	2.738	9.220
Condition 12	65.000	26.941	0.019	2.888	9.680
Condition 13	70.000	26.945	0.019	3.035	10.139
Condition 14	75.000	26.950	0.019	3.180	10.596
Condition 15	80.000	26.957	0.019	3.322	11.052
Condition 16	85.000	26.964	0.019	3.463	11.505
Condition 17	90.000	26.971	0.019	3.602	11.957
Condition 18	95.000	26.979	0.019	3.739	12.408
Condition 19	100.000	26.988	0.019	3.875	12.856

Condition	Awp(ft^2)	LCF(in)	TCF(in)	VCF(in)
Condition 1	2.260	27.117	0.014	1.389
Condition 2	2.420	27.036	0.013	1.789
Condition 3	2.567	26.940	0.013	2.165
Condition 4	2.704	26.845	0.019	2.520
Condition 5	2.835	26.763	0.022	2.858
Condition 6	2.961	26.697	0.018	3.182
Condition 7	3.093	26.618	0.020	3.492
Condition 8	3.529	26.918	0.017	3.770
Condition 9	3.553	26.931	0.017	4.034
Condition 10	3.577	26.948	0.017	4.297
Condition 11	3.601	26.967	0.018	4.558
Condition 12	3.626	26.987	0.018	4.817
Condition 13	3.650	27.009	0.018	5.075
Condition 14	3.675	27.039	0.019	5.331
Condition 15	3.700	27.066	0.019	5.585
Condition 16	3.725	27.089	0.020	5.837
Condition 17	3.748	27.109	0.020	6.088
Condition 18	3.773	27.136	0.020	6.337
Condition 19	3.797	27.165	0.020	6.584

Condition	BMt(in)	BMl(in)	GMt(in)	GMl(in)
Condition 1	237.309	279.960	238.192	280.843
Condition 2	169.523	199.525	170.642	200.644
Condition 3	134.933	158.273	136.267	159.607
Condition 4	113.775	132.939	115.311	134.475
Condition 5	99.459	115.743	101.188	117.472
Condition 6	89.104	103.336	91.018	105.250
Condition 7	81.502	94.531	83.593	96.622
Condition 8	82.815	97.511	85.077	99.774
Condition 9	75.043	88.495	77.469	90.922
Condition 10	68.694	81.154	71.279	83.739
Condition 11	63.407	75.056	66.145	77.795
Condition 12	58.933	69.900	61.821	72.788
Condition 13	55.101	65.498	58.136	68.534
Condition 14	51.790	61.746	54.970	64.926
Condition 15	48.888	58.448	52.210	61.770
Condition 16	46.318	55.511	49.781	58.974
Condition 17	44.029	52.887	47.631	56.489
Condition 18	41.989	50.571	45.728	54.310
Condition 19	40.155	48.512	44.030	52.387

Condition	Cb	Cp	Cwp	Cx	Cws	Cvp
Condition 1	0.107	0.881	0.180	0.122	3.861	0.597
Condition 2	0.123	0.873	0.189	0.141	3.785	0.649
Condition 3	0.133	0.864	0.198	0.154	3.792	0.675
Condition 4	0.141	0.856	0.205	0.165	3.827	0.687
Condition 5	0.147	0.850	0.213	0.174	3.875	0.694
Condition 6	0.153	0.845	0.220	0.181	3.929	0.696
Condition 7	0.158	0.840	0.227	0.188	3.985	0.694
Condition 8	0.161	0.837	0.254	0.193	4.160	0.634
Condition 9	0.167	0.834	0.255	0.200	4.175	0.654
Condition 10	0.172	0.832	0.256	0.206	4.197	0.671
Condition 11	0.176	0.829	0.257	0.212	4.224	0.685
Condition 12	0.179	0.827	0.257	0.217	4.255	0.697
Condition 13	0.183	0.824	0.258	0.222	4.288	0.708
Condition 14	0.186	0.822	0.259	0.226	4.323	0.717
Condition 15	0.188	0.820	0.260	0.230	4.360	0.725
Condition 16	0.191	0.818	0.260	0.233	4.397	0.733
Condition 17	0.193	0.816	0.261	0.236	4.436	0.739
Condition 18	0.195	0.814	0.262	0.240	4.474	0.745
Condition 19	0.197	0.812	0.263	0.242	4.513	0.749

Notes

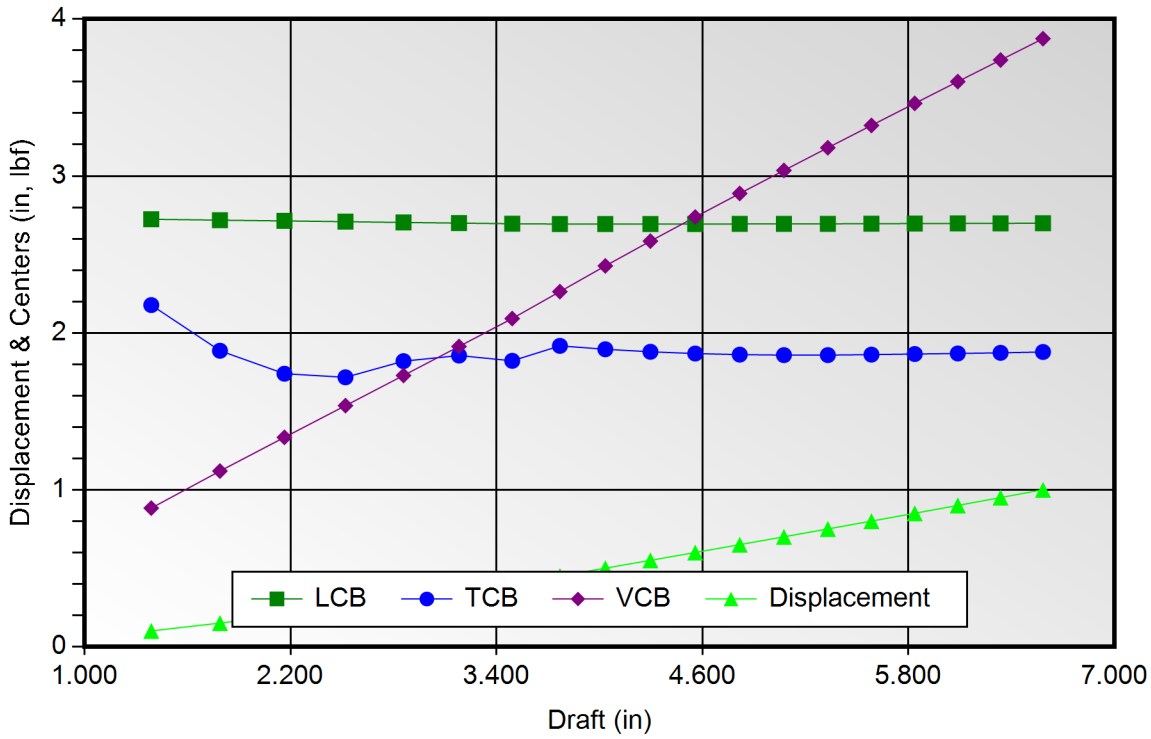
1. Locations such as the center of buoyancy and center of flotation are measured from the origin in the Rhinoceros world coordinate system.

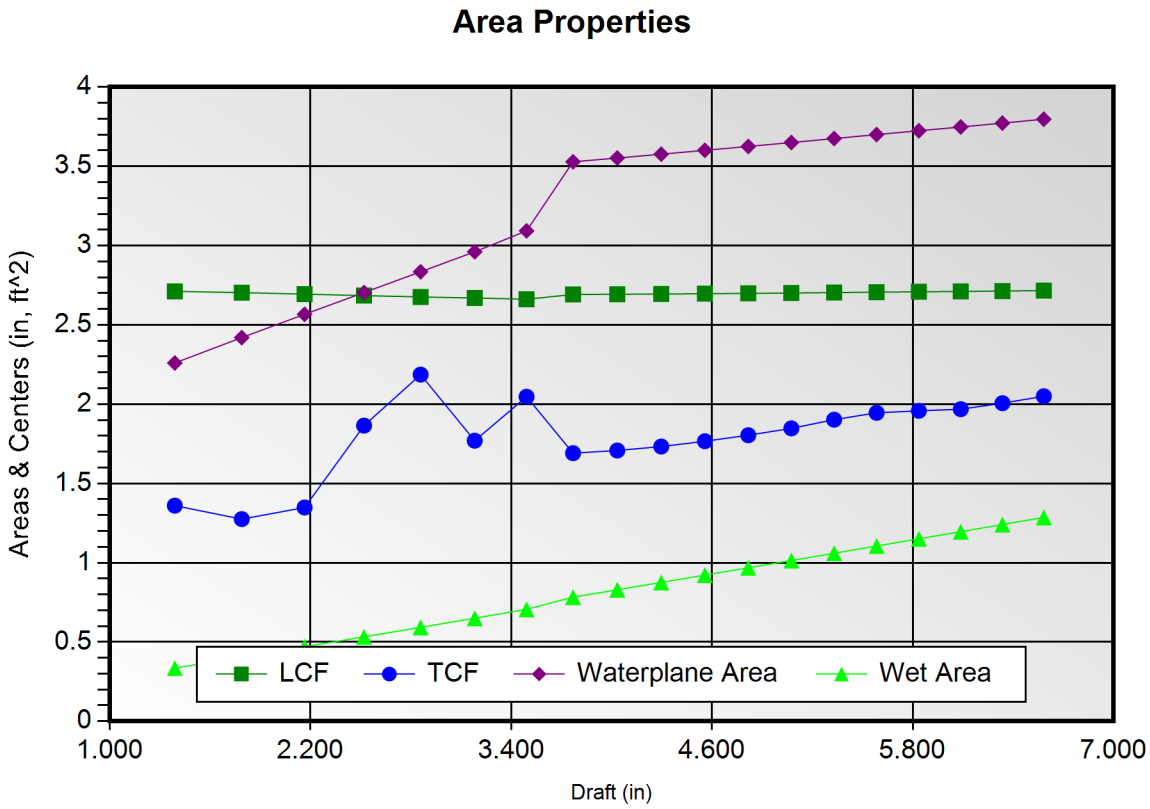
2. The orientation of the model for an Orca3D hydrostatics solution is defined in terms of “sinkage,” “trim,” and “heel.” The sinkage value represents the depth of the body origin (i.e. the Rhino world origin) below the resultant flotation plane, and is sometimes referred to as "origin depth." Heel and trim represent angular rotations about the Rhino longitudinal and transverse axes, respectively, and are taken in that order. For a more detailed description of these terms see the Orca3D documentation.

3. Hull form coefficients are non-dimensionalized by the waterline length.

4. Calculation of Cp and Cx use Orca sections to determine Ax. If no Orca sections are defined, these values will be reported as zero.

Volumetric Properties




Area Properties
Areas & Centers (in, ft^2)
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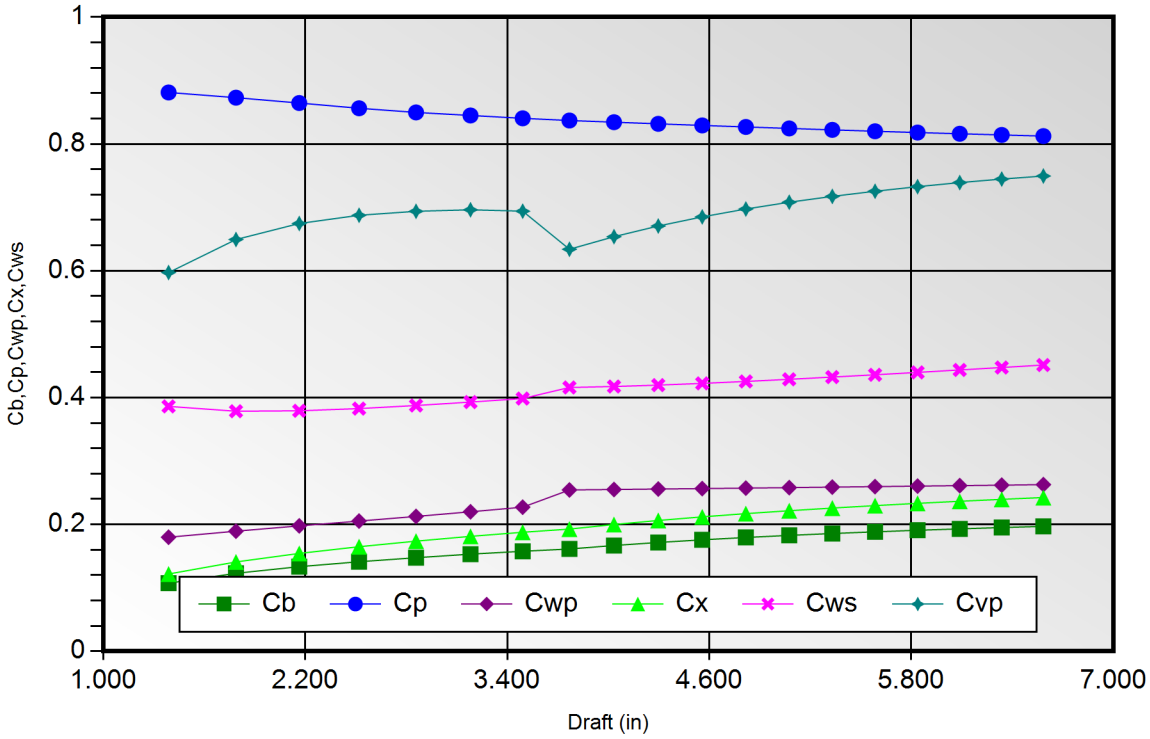
3.5
3
2.5
2
1.5
1
0.5
0
1.000
2.200
3.400
4.600
5.800
7.000
Draft (in)
LCF
TCF
Waterplane Area
Wet Area

Hull Form Coefficients




Orca3D

Object Type	Name	ID
polysurface	Body2	{ca88ffdd-234a-41cb-9d33-b2d3cabdac7f}
polysurface	Body2	{1efc3b00-06e2-4170-9047-1c2721e1bece}

Default Project
Hydrostatics & Stability Analysis
Default Company
Report Time: Tuesday, February 21, 2023, 5:27:09 PM
Model Name: C:\Users\hlebronriver2021\Desktop\Cat_multihull.3dm

Condition Name=Condition 1,Weight=10.00,Model Trim=0.00,Model Heel=0.00

General Info

Analysis Type	FreeFloatEquilibrium	Up Direction = Positive_Z
		Fwd Direction = Positive_X

Surface Meshing Parameters

Density	1	Minimum edge length	0.0001 in
Maximum angle	0	Maximum edge length	0 in
Maximum aspect ratio	0	Max distance, edge to surf.	0 in
Minimum initial grid quads	0	Jagged seams	False
Refine mesh	True	Simple planes	True

Load Condition Parameters

Weight	10.000	lbf
Model Trim	0.000	deg
Model Heel	0.000	deg
VCG	0	in
Fluid Type	Seawater	
Fluid Density	1.991	slug/ft^3
Mirror Geometry	False	

Resultant Model Attitude

Heel Angle	0.000 deg	Sinkage	1.389 in
Trim Angle	0.000 deg		

Overall Dimensions

Length Overall, LOA	66.249 in	Loa / Boa	1.841
Beam Overall, Boa	35.989 in	Boa / D	4.658
Depth Overall, D	7.726 in		

Waterline Dimensions

Waterline Length, Lwl	58.027	in	Lwl / Bwl		1.860
Waterline Beam, Bwl	31.196	in	Bwl / T		22.468
Navigational Draft, T	1.388	in	D / T		5.564

Volumetric Values

Displacement Weight	10.000	lbf	Displ-Length Ratio			39.482
Volume	0.156	ft^3				
LCB	27.239	in	FB/Lwl	0.552	AB/Lwl	0.448
TCB	0.022	in	TCB / Bwl			0.001
VCB	0.883	in				
Wetted Surface Area	3.355	ft^2				
Moment To Trim	4.033	lbf-ft/in				

Waterplane Values

Waterplane Area, Awp	2.260	ft^2				
LCF	27.117	in	FF/Lwl	0.554	AF/Lwl	0.446
TCF	0.014	in	TCF / Lwl			0.000
Weight To Immerse	12.061	lbf/in				

Sectional Parameters

Ax	0.037	ft^2	
Ax Location	14.722	in	Ax Location / Lwl	0.768

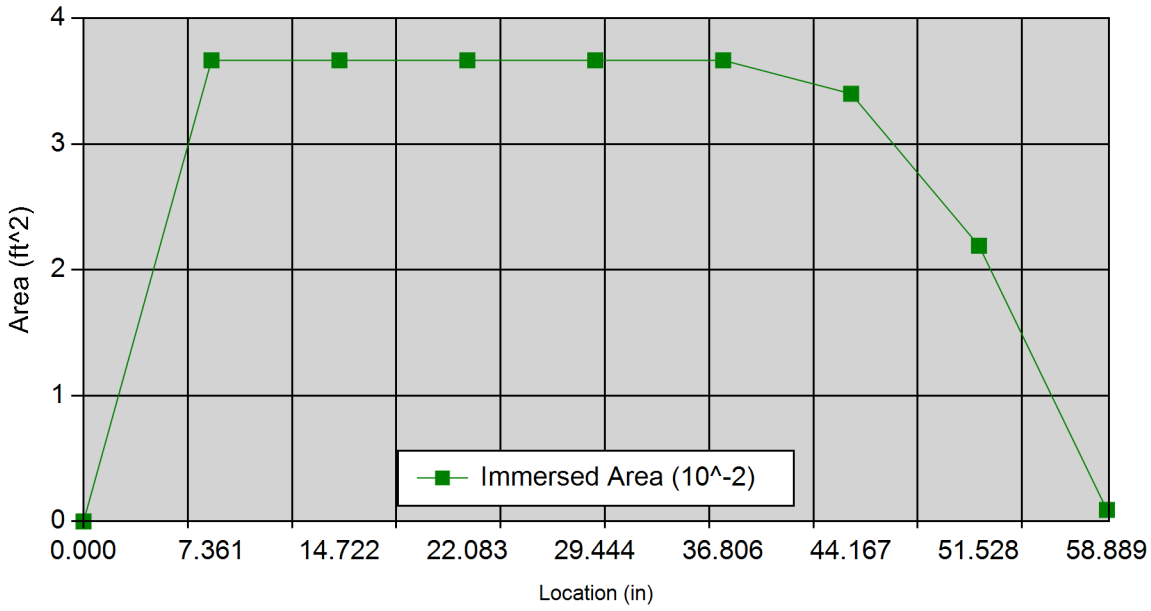
Hull Form Coefficients

Cb	0.107	Cx	0.122
Cp	0.881	Cwp	0.180
Cvp	0.597	Cws	3.861

Static Stability Parameters

I(transverse)	3.088	ft^4	I(longitudinal)	3.643	ft^4
BMt	237.309	in	BMl	279.960	in
GMt	238.192	in	GMl	280.843	in
Mt	236.803	in	Ml	279.454	in

Station Data



Location (in)	Immersed Area (ft^2)	Immersed Girth (in)
0.000	0.000	0.000
7.361	0.037	8.804
14.722	0.037	8.804
22.083	0.037	8.804
29.444	0.037	8.804
36.806	0.037	8.804
44.167	0.034	8.366
51.528	0.022	6.967
58.889	0.001	1.425

Condition Name=Condition 2,Weight=15.00,Model Trim=0.00,Model Heel=0.00

General Info

Analysis Type	FreeFloatEquilibrium	Up Direction = Positive_Z	
		Fwd Direction = Positive_X	

Surface Meshing Parameters

Density	1	Minimum edge length	0.0001 in
Maximum angle	0	Maximum edge length	0 in
Maximum aspect ratio	0	Max distance, edge to surf.	0 in
Minimum initial grid quads	0	Jagged seams	False
Refine mesh	True	Simple planes	True

Load Condition Parameters

Weight	15.000	lbf
Model Trim	0.000	deg
Model Heel	0.000	deg
VCG	0	in
Fluid Type	Seawater	
Fluid Density	1.991	slug/ft^3
Mirror Geometry	False	

Resultant Model Attitude

Heel Angle	0.000 deg	Sinkage	1.789 in
Trim Angle	0.000 deg		

Overall Dimensions

Length Overall, LOA	66.249 in	Loa / Boa	1.841
Beam Overall, Boa	35.989 in	Boa / D	4.658
Depth Overall, D	7.726 in		

Waterline Dimensions

Waterline Length, Lwl	58.552	in	Lwl / Bwl		1.863
Waterline Beam, Bwl	31.436	in	Bwl / T		17.574
Navigational Draft, T	1.789	in	D / T		4.319

Volumetric Values

Displacement Weight	15.000	lbf	Displ-Length Ratio			57.646
Volume	0.234	ft^3				
LCB	27.185	in	FB/Lwl	0.557	AB/Lwl	0.443
TCB	0.019	in	TCB / Bwl			0.001
VCB	1.119	in				
Wetted Surface Area	4.046	ft^2				
Moment To Trim	4.283	lbf-ft/in				

Waterplane Values

Waterplane Area, Awp	2.420	ft^2				
LCF	27.036	in	FF/Lwl	0.560	AF/Lwl	0.440
TCF	0.013	in	TCF / Lwl			0.000
Weight To Immerse	12.916	lbf/in				

Sectional Parameters

Ax	0.055	ft^2	
Ax Location	14.722	in	Ax Location / Lwl	0.770

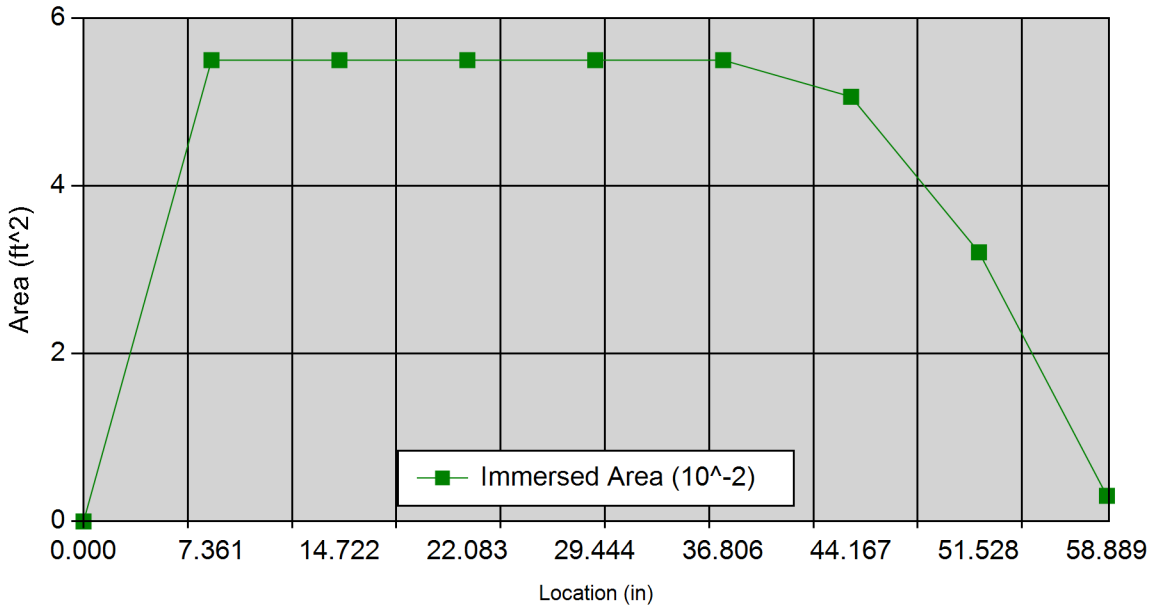
Hull Form Coefficients

Cb	0.123	Cx	0.141
Cp	0.873	Cwp	0.189
Cvp	0.649	Cws	3.785

Static Stability Parameters

I(transverse)	3.309	ft^4	I(longitudinal)	3.894	ft^4
BMt	169.523	in	BMl	199.525	in
GMt	170.642	in	GMl	200.644	in
Mt	168.853	in	Ml	198.855	in

Station Data



Location (in)	Immersed Area (ft^2)	Immersed Girth (in)
0.000	0.000	0.000
7.361	0.055	10.476
14.722	0.055	10.476
22.083	0.055	10.476
29.444	0.055	10.476
36.806	0.055	10.476
44.167	0.051	10.005
51.528	0.032	8.570
58.889	0.003	3.158

Condition Name=Condition 3,Weight=20.00,Model Trim=0.00,Model Heel=0.00

General Info

Analysis Type	FreeFloatEquilibrium	Up Direction = Positive_Z
		Fwd Direction = Positive_X

Surface Meshing Parameters

Density	1	Minimum edge length	0.0001 in
Maximum angle	0	Maximum edge length	0 in
Maximum aspect ratio	0	Max distance, edge to surf.	0 in
Minimum initial grid quads	0	Jagged seams	False
Refine mesh	True	Simple planes	True

Load Condition Parameters

Weight	20.000	lbf
Model Trim	0.000	deg
Model Heel	0.000	deg
VCG	0	in
Fluid Type	Seawater	
Fluid Density	1.991	slug/ft^3
Mirror Geometry	False	

Resultant Model Attitude

Heel Angle	0.000 deg	Sinkage	2.165 in
Trim Angle	0.000 deg		

Overall Dimensions

Length Overall, LOA	66.249 in	Loa / Boa	1.841
Beam Overall, Boa	35.989 in	Boa / D	4.658
Depth Overall, D	7.726 in		

Waterline Dimensions

Waterline Length, Lwl	59.044	in	Lwl / Bwl		1.865
Waterline Beam, Bwl	31.662	in	Bwl / T		14.628
Navigational Draft, T	2.164	in	D / T		3.569

Volumetric Values

Displacement Weight	20.000	lbf	Displ-Length Ratio			74.954
Volume	0.312	ft^3				
LCB	27.136	in	FB/Lwl	0.562	AB/Lwl	0.438
TCB	0.017	in	TCB / Bwl			0.001
VCB	1.334	in				
Wetted Surface Area	4.700	ft^2				
Moment To Trim	4.505	lbf-ft/in				

Waterplane Values

Waterplane Area, Awp	2.567	ft^2				
LCF	26.940	in	FF/Lwl	0.565	AF/Lwl	0.435
TCF	0.013	in	TCF / Lwl			0.000
Weight To Immerse	13.699	lbf/in				

Sectional Parameters

Ax	0.073	ft^2			
Ax Location	14.722	in	Ax Location / Lwl		0.772

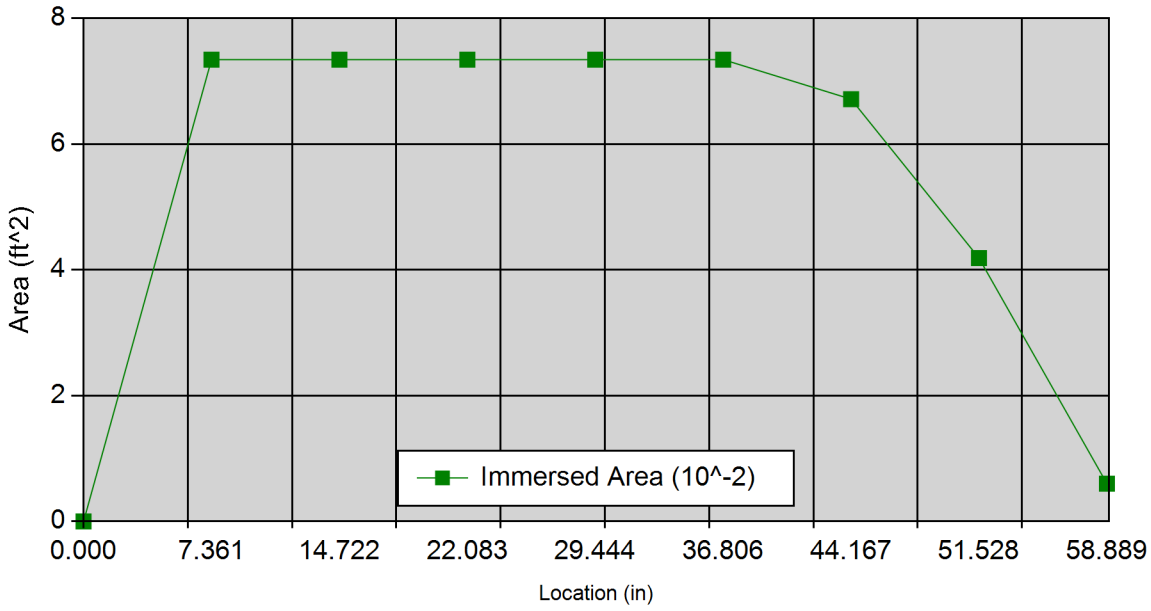
Hull Form Coefficients

Cb	0.133	Cx	0.154
Cp	0.864	Cwp	0.198
Cvp	0.675	Cws	3.792

Static Stability Parameters

I(transverse)	3.511	ft^4	I(longitudinal)	4.119	ft^4
BMt	134.933	in	BMl	158.273	in
GMt	136.267	in	GMl	159.607	in
Mt	134.102	in	Ml	157.442	in

Station Data



Location (in)	Immersed Area (ft^2)	Immersed Girth (in)
0.000	0.000	0.000
7.361	0.073	12.044
14.722	0.073	12.044
22.083	0.073	12.044
29.444	0.073	12.044
36.806	0.073	12.044
44.167	0.067	11.542
51.528	0.042	10.075
58.889	0.006	4.665

Condition Name=Condition 4,Weight=25.00,Model Trim=0.00,Model Heel=0.00

General Info

Analysis Type	FreeFloatEquilibrium	Up Direction = Positive_Z
		Fwd Direction = Positive_X

Surface Meshing Parameters

Density	1	Minimum edge length	0.0001 in
Maximum angle	0	Maximum edge length	0 in
Maximum aspect ratio	0	Max distance, edge to surf.	0 in
Minimum initial grid quads	0	Jagged seams	False
Refine mesh	True	Simple planes	True

Load Condition Parameters

Weight	25.000	lbf
Model Trim	0.000	deg
Model Heel	0.000	deg
VCG	0	in
Fluid Type	Seawater	
Fluid Density	1.991	slug/ft^3
Mirror Geometry	False	

Resultant Model Attitude

Heel Angle	0.000 deg	Sinkage	2.520 in
Trim Angle	0.000 deg		

Overall Dimensions

Length Overall, LOA	66.249 in	Loa / Boa	1.841
Beam Overall, Boa	35.989 in	Boa / D	4.658
Depth Overall, D	7.726 in		

Waterline Dimensions

Waterline Length, Lwl	59.510 in	Lwl / Bwl	1.867
Waterline Beam, Bwl	31.875 in	Bwl / T	12.649
Navigational Draft, T	2.520 in	D / T	3.066

Volumetric Values

Displacement Weight	25.000 lbf	Displ-Length Ratio			91.509
Volume	0.390 ft^3				
LCB	27.086 in	FB/Lwl	0.566	AB/Lwl	0.434
TCB	0.017 in	TCB / Bwl			0.001
VCB	1.536 in				
Wetted Surface Area	5.324 ft^2				
Moment To Trim	4.708 lbf-ft/in				

Waterplane Values

Waterplane Area, Awp	2.704 ft^2				
LCF	26.845 in	FF/Lwl	0.570	AF/Lwl	0.430
TCF	0.019 in	TCF / Lwl			0.000
Weight To Immerse	14.431 lbf/in				

Sectional Parameters

Ax	0.092 ft^2		
Ax Location	22.083 in	Ax Location / Lwl	0.650

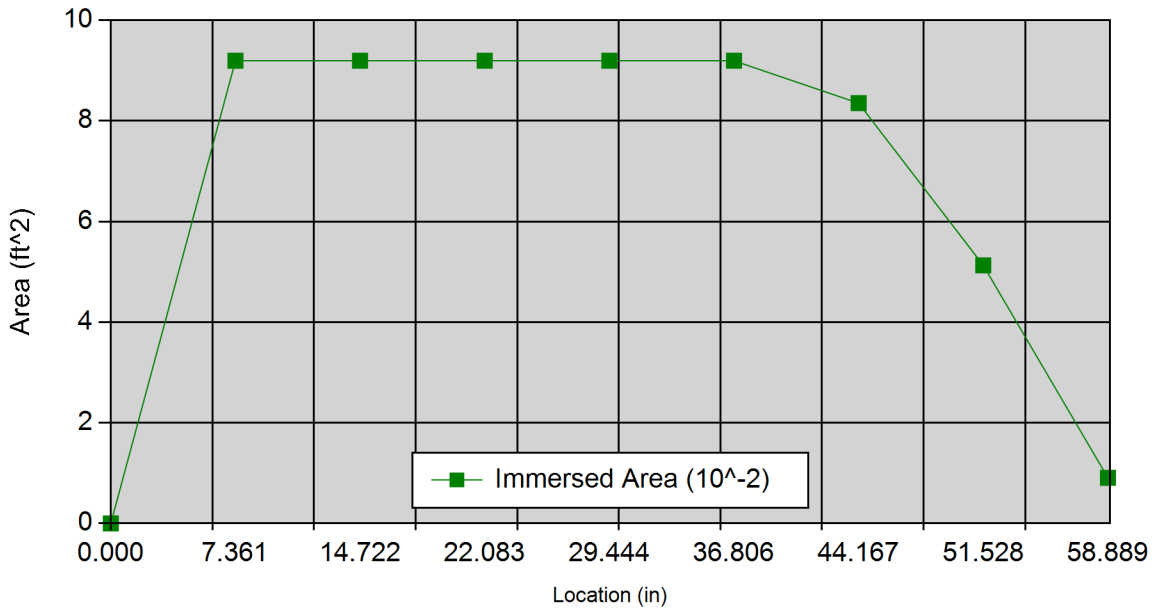
Hull Form Coefficients

Cb	0.141	Cx	0.165
Cp	0.856	Cwp	0.205
Cvp	0.687	Cws	3.827

Static Stability Parameters

I(transverse)	3.701	ft^4	I(longitudinal)	4.324	ft^4
BMt	113.775	in	BMl	132.939	in
GMt	115.311	in	GMl	134.475	in
Mt	112.791	in	Ml	131.955	in

Station Data



Location (in)	Immersed Area (ft^2)	Immersed Girth (in)
0.000	0.000	0.000
7.361	0.092	13.529
14.722	0.092	13.529
22.083	0.092	13.529
29.444	0.092	13.529
36.806	0.092	13.529
44.167	0.084	12.996
51.528	0.051	11.499
58.889	0.009	6.091

Condition Name=Condition 5,Weight=30.00,Model Trim=0.00,Model Heel=0.00

General Info

Analysis Type	FreeFloatEquilibrium	Up Direction = Positive_Z
		Fwd Direction = Positive_X

Surface Meshing Parameters

Density	1	Minimum edge length	0.0001 in
Maximum angle	0	Maximum edge length	0 in
Maximum aspect ratio	0	Max distance, edge to surf.	0 in
Minimum initial grid quads	0	Jagged seams	False
Refine mesh	True	Simple planes	True

Load Condition Parameters

Weight	30.000	lbf
Model Trim	0.000	deg
Model Heel	0.000	deg
VCG	0	in
Fluid Type	Seawater	
Fluid Density	1.991	slug/ft^3
Mirror Geometry	False	

Resultant Model Attitude

Heel Angle	0.000 deg	Sinkage	2.858 in
Trim Angle	0.000 deg		

Overall Dimensions

Length Overall, LOA	66.249 in	Loa / Boa	1.841
Beam Overall, Boa	35.989 in	Boa / D	4.658
Depth Overall, D	7.726 in		

Waterline Dimensions

Waterline Length, Lwl	59.857 in	Lwl / Bwl	1.866
Waterline Beam, Bwl	32.078 in	Bwl / T	11.223
Navigational Draft, T	2.858 in	D / T	2.703

Volumetric Values

Displacement Weight	30.000 lbf	Displ-Length Ratio			107.913
Volume	0.468 ft^3				
LCB	27.038 in	FB/Lwl	0.569	AB/Lwl	0.431
TCB	0.018 in	TCB / Bwl			0.001
VCB	1.728 in				
Wetted Surface Area	5.923 ft^2				
Moment To Trim	4.906 lbf-ft/in				

Waterplane Values

Waterplane Area, Awp	2.835 ft^2				
LCF	26.763 in	FF/Lwl	0.574	AF/Lwl	0.426
TCF	0.022 in	TCF / Lwl			0.000
Weight To Immerse	15.130 lbf/in				

Sectional Parameters

Ax	0.111 ft^2		
Ax Location	22.083 in	Ax Location / Lwl	0.652

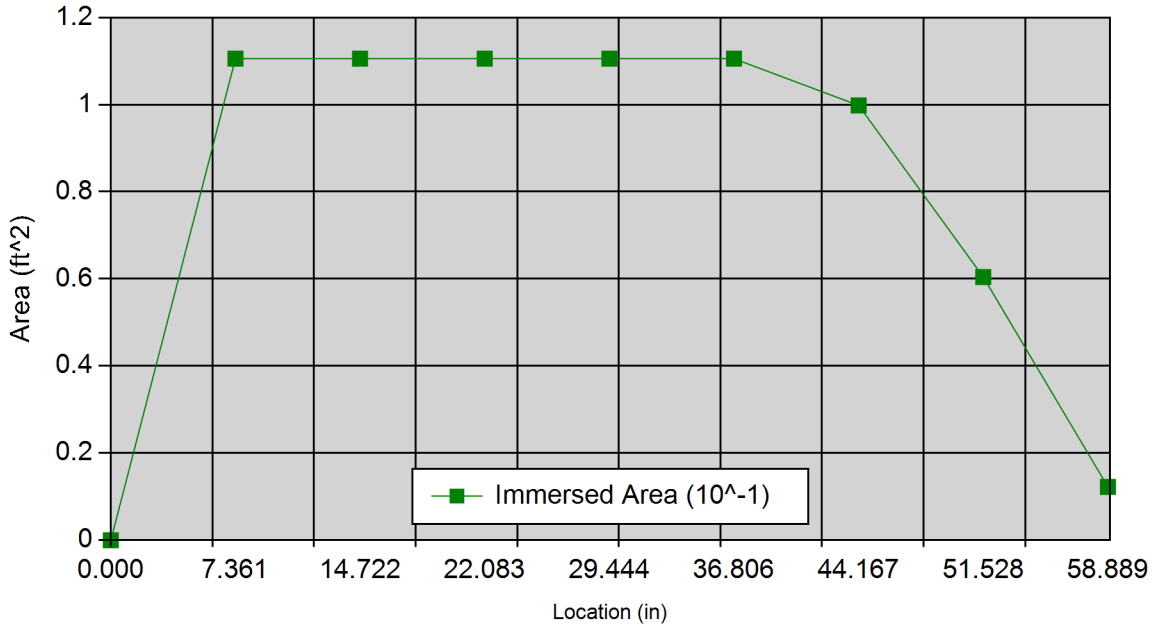
Hull Form Coefficients

Cb	0.147	Cx	0.174
Cp	0.850	Cwp	0.213
Cvp	0.694	Cws	3.875

Static Stability Parameters

I(transverse)	3.882	ft^4	I(longitudinal)	4.518	ft^4
BMt	99.459	in	BMl	115.743	in
GMt	101.188	in	GMl	117.472	in
Mt	98.329	in	Ml	114.613	in

Station Data



Location (in)	Immersed Area (ft^2)	Immersed Girth (in)
0.000	0.000	0.000
7.361	0.111	14.941
14.722	0.111	14.941
22.083	0.111	14.941
29.444	0.111	14.941
36.806	0.111	14.941
44.167	0.100	14.380
51.528	0.060	12.853
58.889	0.012	7.448

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Condition Name=Condition 6,Weight=35.00,Model Trim=0.00,Model Heel=0.00

General Info

Analysis Type	FreeFloatEquilibrium	Up Direction = Positive_Z
		Fwd Direction = Positive_X

Surface Meshing Parameters

Density	1	Minimum edge length	0.0001 in
Maximum angle	0	Maximum edge length	0 in
Maximum aspect ratio	0	Max distance, edge to surf.	0 in
Minimum initial grid quads	0	Jagged seams	False
Refine mesh	True	Simple planes	True

Load Condition Parameters

Weight	35.000	lbf
Model Trim	0.000	deg
Model Heel	0.000	deg
VCG	0	in
Fluid Type	Seawater	
Fluid Density	1.991	slug/ft^3
Mirror Geometry	False	

Resultant Model Attitude

Heel Angle	0.000 deg	Sinkage	3.182 in
Trim Angle	0.000 deg		

Overall Dimensions

Length Overall, LOA	66.249 in	Loa / Boa	1.841
Beam Overall, Boa	35.989 in	Boa / D	4.658
Depth Overall, D	7.726 in		

Waterline Dimensions

Waterline Length, Lwl	60.080	in	Lwl / Bwl		1.862
Waterline Beam, Bwl	32.272	in	Bwl / T		10.143
Navigational Draft, T	3.182	in	D / T		2.428

Volumetric Values

Displacement Weight	35.000	lbf	Displ-Length Ratio			124.502
Volume	0.546	ft^3				
LCB	26.995	in	FB/Lwl	0.571	AB/Lwl	0.429
TCB	0.019	in	TCB / Bwl			0.001
VCB	1.913	in				
Wetted Surface Area	6.499	ft^2				
Moment To Trim	5.109	lbf-ft/in				

Waterplane Values

Waterplane Area, Awp	2.961	ft^2				
LCF	26.697	in	FF/Lwl	0.576	AF/Lwl	0.424
TCF	0.018	in	TCF / Lwl			0.000
Weight To Immerse	15.803	lbf/in				

Sectional Parameters

Ax	0.129	ft^2			
Ax Location	14.722	in	Ax Location / Lwl		0.776

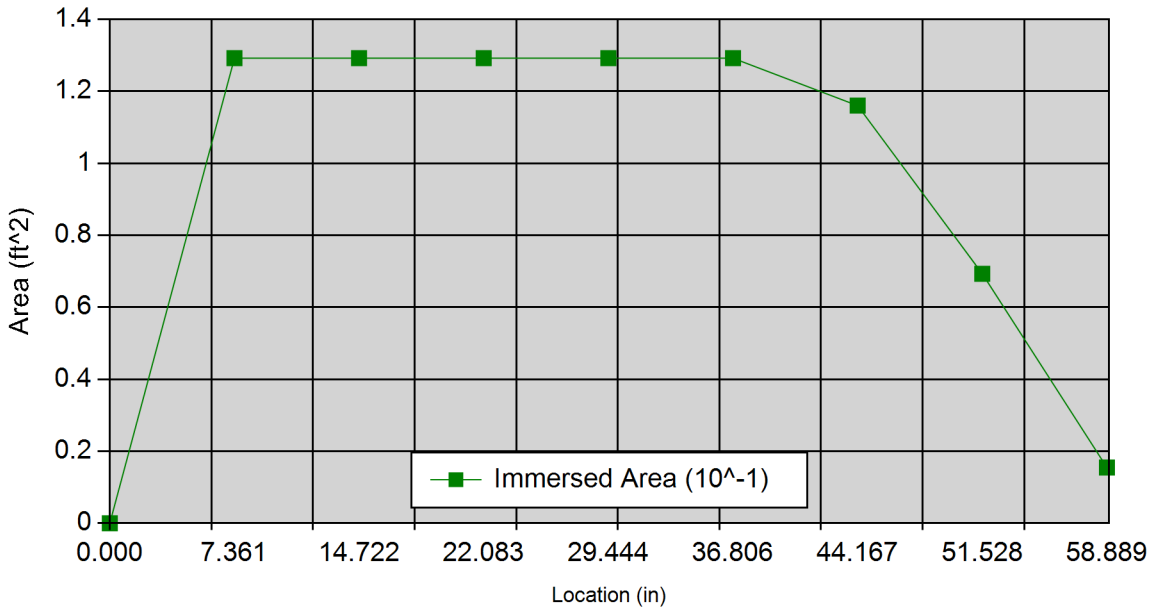
Hull Form Coefficients

Cb	0.153	Cx	0.181
Cp	0.845	Cwp	0.220
Cvp	0.696	Cws	3.929

Static Stability Parameters

I(transverse)	4.058	ft^4	I(longitudinal)	4.706	ft^4
BMt	89.104	in	BMl	103.336	in
GMt	91.018	in	GMl	105.250	in
Mt	87.836	in	Ml	102.068	in

Station Data



Location (in)	Immersed Area (ft^2)	Immersed Girth (in)
0.000	0.000	0.000
7.361	0.129	16.292
14.722	0.129	16.292
22.083	0.129	16.292
29.444	0.129	16.292
36.806	0.129	16.292
44.167	0.116	15.704
51.528	0.069	14.149
58.889	0.015	8.746

Condition Name=Condition 7,Weight=40.00,Model Trim=0.00,Model Heel=0.00

General Info

Analysis Type	FreeFloatEquilibrium	Up Direction = Positive_Z	
		Fwd Direction = Positive_X	

Surface Meshing Parameters

Density	1	Minimum edge length	0.0001 in
Maximum angle	0	Maximum edge length	0 in
Maximum aspect ratio	0	Max distance, edge to surf.	0 in
Minimum initial grid quads	0	Jagged seams	False
Refine mesh	True	Simple planes	True

Load Condition Parameters

Weight	40.000	lbf
Model Trim	0.000	deg
Model Heel	0.000	deg
VCG	0	in
Fluid Type	Seawater	
Fluid Density	1.991	slug/ft^3
Mirror Geometry	False	

Resultant Model Attitude

Heel Angle	0.000 deg	Sinkage	3.492 in
Trim Angle	0.000 deg		

Overall Dimensions

Length Overall, LOA	66.249 in	Loa / Boa	1.841
Beam Overall, Boa	35.989 in	Boa / D	4.658
Depth Overall, D	7.726 in		

Waterline Dimensions

Waterline Length, Lwl	60.294	in	Lwl / Bwl		1.854
Waterline Beam, Bwl	32.517	in	Bwl / T		9.313
Navigational Draft, T	3.492	in	D / T		2.213

Volumetric Values

Displacement Weight	40.000	lbf	Displ-Length Ratio			140.781
Volume	0.625	ft^3				
LCB	26.955	in	FB/Lwl	0.574	AB/Lwl	0.426
TCB	0.018	in	TCB / Bwl			0.001
VCB	2.091	in				
Wetted Surface Area	7.059	ft^2				
Moment To Trim	5.342	lbf-ft/in				

Waterplane Values

Waterplane Area, Awp	3.093	ft^2				
LCF	26.618	in	FF/Lwl	0.579	AF/Lwl	0.421
TCF	0.020	in	TCF / Lwl			0.000
Weight To Immerse	16.508	lbf/in				

Sectional Parameters

Ax	0.148	ft^2			
Ax Location	14.722	in	Ax Location / Lwl		0.777

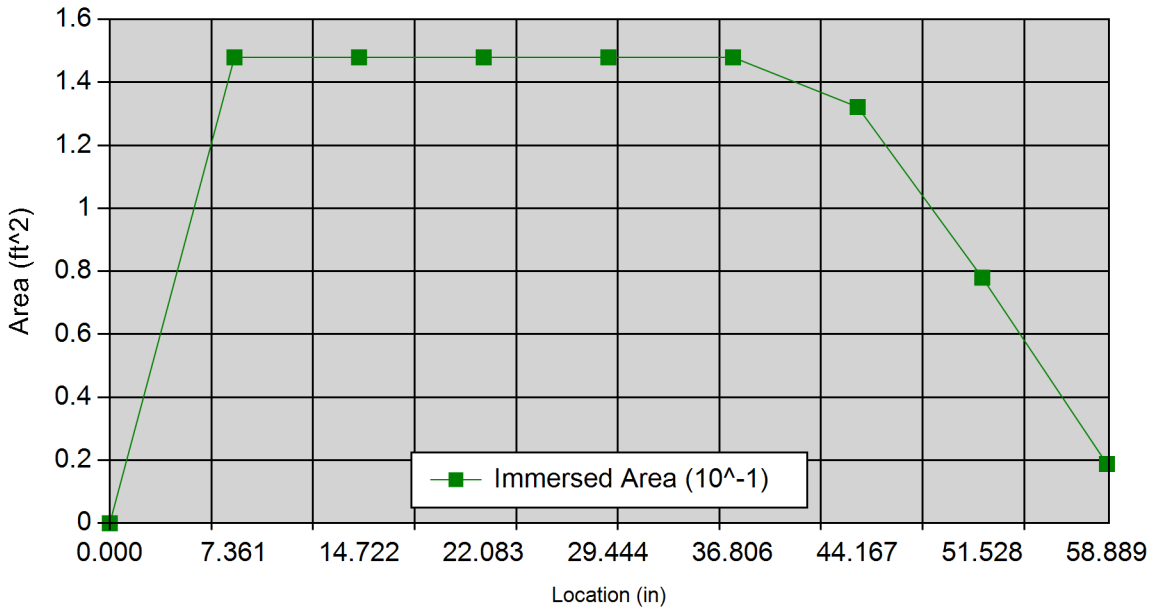
Hull Form Coefficients

Cb	0.158	Cx	0.188
Cp	0.840	Cwp	0.227
Cvp	0.694	Cws	3.985

Static Stability Parameters

I(transverse)	4.242	ft^4	I(longitudinal)	4.920	ft^4
BMt	81.502	in	BMl	94.531	in
GMt	83.593	in	GMl	96.622	in
Mt	80.101	in	Ml	93.130	in

Station Data



Location (in)	Immersed Area (ft^2)	Immersed Girth (in)
0.000	0.000	0.000
7.361	0.148	17.586
14.722	0.148	17.586
22.083	0.148	17.586
29.444	0.148	17.586
36.806	0.148	17.586
44.167	0.132	16.973
51.528	0.078	15.393
58.889	0.019	9.989

Default Project
Hydrostatics & Stability Analysis
Default Company
Report Time: Tuesday, February 21, 2023, 5:27:09 PM
Model Name: C:\Users\hlebronriver2021\Desktop\Cat_multihull.3dm

Condition Name=Condition 8,Weight=45.00,Model Trim=0.00,Model Heel=0.00

General Info

Analysis Type	FreeFloatEquilibrium	Up Direction = Positive_Z
		Fwd Direction = Positive_X

Surface Meshing Parameters

Density	1	Minimum edge length	0.0001 in
Maximum angle	0	Maximum edge length	0 in
Maximum aspect ratio	0	Max distance, edge to surf.	0 in
Minimum initial grid quads	0	Jagged seams	False
Refine mesh	True	Simple planes	True

Load Condition Parameters

Weight	45.000	lbf
Model Trim	0.000	deg
Model Heel	0.000	deg
VCG	0	in
Fluid Type	Seawater	
Fluid Density	1.991	slug/ft^3
Mirror Geometry	False	

Resultant Model Attitude

Heel Angle	0.000 deg	Sinkage	3.770 in
Trim Angle	0.000 deg		

Overall Dimensions

Length Overall, LOA	66.249 in	Loa / Boa	1.841
Beam Overall, Boa	35.989 in	Boa / D	4.658
Depth Overall, D	7.726 in		

Waterline Dimensions

Waterline Length, Lwl	60.485	in	Lwl / Bwl		1.831
Waterline Beam, Bwl	33.030	in	Bwl / T		8.763
Navigational Draft, T	3.769	in	D / T		2.050

Volumetric Values

Displacement Weight	45.000	lbf	Displ-Length Ratio			156.879
Volume	0.703	ft^3				
LCB	26.938	in	FB/Lwl	0.575	AB/Lwl	0.425
TCB	0.019	in	TCB / Bwl			0.001
VCB	2.263	in				
Wetted Surface Area	7.828	ft^2				
Moment To Trim	6.186	lbf-ft/in				

Waterplane Values

Waterplane Area, Awp	3.529	ft^2				
LCF	26.918	in	FF/Lwl	0.576	AF/Lwl	0.424
TCF	0.017	in	TCF / Lwl			0.000
Weight To Immerse	18.833	lbf/in				

Sectional Parameters

Ax	0.167	ft^2			
Ax Location	14.722	in	Ax Location / Lwl		0.777

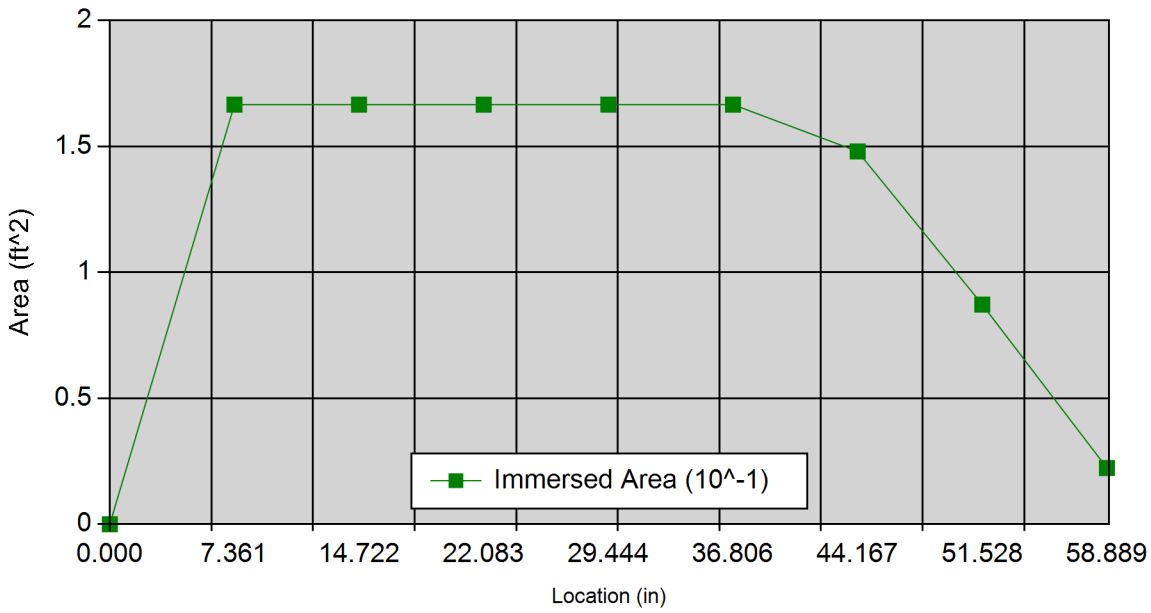
Hull Form Coefficients

Cb	0.161	Cx	0.193
Cp	0.837	Cwp	0.254
Cvp	0.634	Cws	4.160

Static Stability Parameters

I(transverse)	4.849	ft^4	I(longitudinal)	5.710	ft^4
BMt	82.815	in	BMl	97.511	in
GMt	85.077	in	GMl	99.774	in
Mt	81.308	in	Ml	96.004	in

Station Data



Location (in)	Immersed Area (ft^2)	Immersed Girth (in)
0.000	0.000	0.000
7.361	0.167	19.551
14.722	0.167	19.551
22.083	0.167	19.551
29.444	0.167	19.551
36.806	0.167	19.551
44.167	0.148	18.687
51.528	0.087	17.177
58.889	0.022	11.230

Condition Name=Condition 9,Weight=50.00,Model Trim=0.00,Model Heel=0.00

General Info

Analysis Type	FreeFloatEquilibrium	Up Direction = Positive_Z	
		Fwd Direction = Positive_X	

Surface Meshing Parameters

Density	1	Minimum edge length	0.0001 in
Maximum angle	0	Maximum edge length	0 in
Maximum aspect ratio	0	Max distance, edge to surf.	0 in
Minimum initial grid quads	0	Jagged seams	False
Refine mesh	True	Simple planes	True

Load Condition Parameters

Weight	50.000	lbf
Model Trim	0.000	deg
Model Heel	0.000	deg
VCG	0	in
Fluid Type	Seawater	
Fluid Density	1.991	slug/ft^3
Mirror Geometry	False	

Resultant Model Attitude

Heel Angle	0.000 deg	Sinkage	4.034 in
Trim Angle	0.000 deg		

Overall Dimensions

Length Overall, LOA	66.249 in	Loa / Boa	1.841
Beam Overall, Boa	35.989 in	Boa / D	4.658
Depth Overall, D	7.726 in		

Waterline Dimensions

Waterline Length, Lwl	60.667	in	Lwl / Bwl		1.835
Waterline Beam, Bwl	33.062	in	Bwl / T		8.196
Navigational Draft, T	4.034	in	D / T		1.915

Volumetric Values

Displacement Weight	50.000	lbf	Displ-Length Ratio			172.743
Volume	0.781	ft^3				
LCB	26.936	in	FB/Lwl	0.577	AB/Lwl	0.423
TCB	0.019	in	TCB / Bwl			0.001
VCB	2.427	in				
Wetted Surface Area	8.294	ft^2				
Moment To Trim	6.245	lbf-ft/in				

Waterplane Values

Waterplane Area, Awp	3.553	ft^2				
LCF	26.931	in	FF/Lwl	0.577	AF/Lwl	0.423
TCF	0.017	in	TCF / Lwl			0.000
Weight To Immerse	18.960	lbf/in				

Sectional Parameters

Ax	0.185	ft^2			
Ax Location	14.722	in	Ax Location / Lwl		0.778

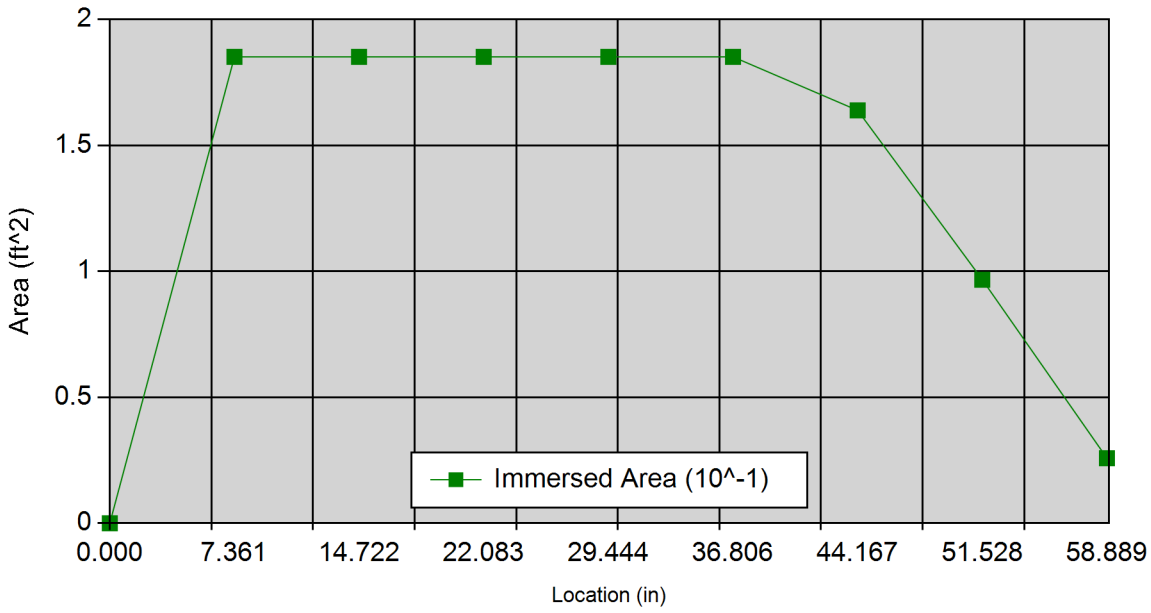
Hull Form Coefficients

Cb	0.167	Cx	0.200
Cp	0.834	Cwp	0.255
Cvp	0.654	Cws	4.175

Static Stability Parameters

I(transverse)	4.882	ft^4	I(longitudinal)	5.757	ft^4
BMt	75.043	in	BMl	88.495	in
GMt	77.469	in	GMl	90.922	in
Mt	73.435	in	Ml	86.888	in

Station Data



Location (in)	Immersed Area (ft^2)	Immersed Girth (in)
0.000	0.000	0.000
7.361	0.185	20.612
14.722	0.185	20.612
22.083	0.185	20.612
29.444	0.185	20.612
36.806	0.185	20.612
44.167	0.164	19.747
51.528	0.097	18.236
58.889	0.026	12.290

Condition Name=Condition 10,Weight=55.00,Model Trim=0.00,Model Heel=0.00

General Info

Analysis Type	FreeFloatEquilibrium	Up Direction = Positive_Z
		Fwd Direction = Positive_X

Surface Meshing Parameters

Density	1	Minimum edge length	0.0001 in
Maximum angle	0	Maximum edge length	0 in
Maximum aspect ratio	0	Max distance, edge to surf.	0 in
Minimum initial grid quads	0	Jagged seams	False
Refine mesh	True	Simple planes	True

Load Condition Parameters

Weight	55.000	lbf
Model Trim	0.000	deg
Model Heel	0.000	deg
VCG	0	in
Fluid Type	Seawater	
Fluid Density	1.991	slug/ft^3
Mirror Geometry	False	

Resultant Model Attitude

Heel Angle	0.000 deg	Sinkage	4.297 in
Trim Angle	0.000 deg		

Overall Dimensions

Length Overall, LOA	66.249 in	Loa / Boa	1.841
Beam Overall, Boa	35.989 in	Boa / D	4.658
Depth Overall, D	7.726 in		

Waterline Dimensions

Waterline Length, Lwl	60.849	in	Lwl / Bwl		1.839
Waterline Beam, Bwl	33.094	in	Bwl / T		7.702
Navigational Draft, T	4.297	in	D / T		1.798

Volumetric Values

Displacement Weight	55.000	lbf	Displ-Length Ratio			188.325
Volume	0.859	ft^3				
LCB	26.936	in	FB/Lwl	0.578	AB/Lwl	0.422
TCB	0.019	in	TCB / Bwl			0.001
VCB	2.585	in				
Wetted Surface Area	8.758	ft^2				
Moment To Trim	6.308	lbf-ft/in				

Waterplane Values

Waterplane Area, Awp	3.577	ft^2				
LCF	26.948	in	FF/Lwl	0.578	AF/Lwl	0.422
TCF	0.017	in	TCF / Lwl			0.000
Weight To Immerse	19.089	lbf/in				

Sectional Parameters

Ax	0.204	ft^2	
Ax Location	14.722	in	Ax Location / Lwl	0.779

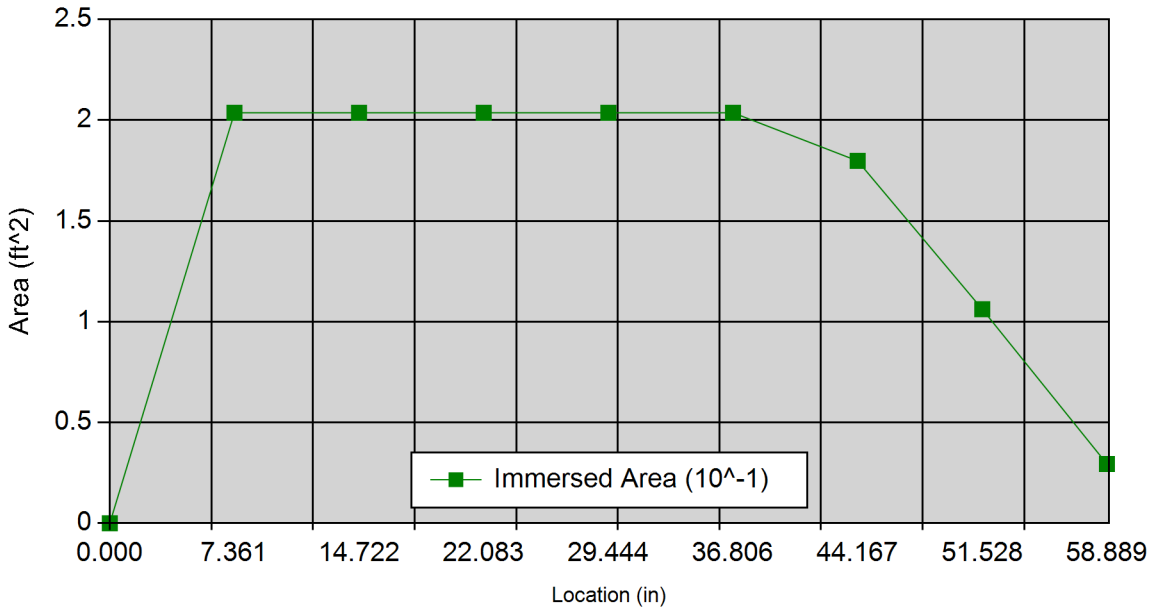
Hull Form Coefficients

Cb	0.172	Cx	0.206
Cp	0.832	Cwp	0.256
Cvp	0.671	Cws	4.197

Static Stability Parameters

I(transverse)	4.916	ft^4	I(longitudinal)	5.808	ft^4
BMt	68.694	in	BMl	81.154	in
GMt	71.279	in	GMl	83.739	in
Mt	66.981	in	Ml	79.442	in

Station Data



Location (in)	Immersed Area (ft^2)	Immersed Girth (in)
0.000	0.000	0.000
7.361	0.204	21.665
14.722	0.204	21.665
22.083	0.204	21.665
29.444	0.204	21.665
36.806	0.204	21.665
44.167	0.180	20.800
51.528	0.106	19.288
58.889	0.029	13.342

Default Project
Hydrostatics & Stability Analysis
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Model Name: C:\Users\hlebronriver2021\Desktop\Cat_multihull.3dm

Condition Name=Condition 11,Weight=60.00,Model Trim=0.00,Model Heel=0.00

General Info

Analysis Type	FreeFloatEquilibrium	Up Direction = Positive_Z
		Fwd Direction = Positive_X

Surface Meshing Parameters

Density	1	Minimum edge length	0.0001 in
Maximum angle	0	Maximum edge length	0 in
Maximum aspect ratio	0	Max distance, edge to surf.	0 in
Minimum initial grid quads	0	Jagged seams	False
Refine mesh	True	Simple planes	True

Load Condition Parameters

Weight	60.000	lbf
Model Trim	0.000	deg
Model Heel	0.000	deg
VCG	0	in
Fluid Type	Seawater	
Fluid Density	1.991	slug/ft^3
Mirror Geometry	False	

Resultant Model Attitude

Heel Angle	0.000 deg	Sinkage	4.558 in
Trim Angle	0.000 deg		

Overall Dimensions

Length Overall, LOA	66.249 in	Loa / Boa	1.841
Beam Overall, Boa	35.989 in	Boa / D	4.658
Depth Overall, D	7.726 in		

Waterline Dimensions

Waterline Length, Lwl	61.028	in	Lwl / Bwl		1.842
Waterline Beam, Bwl	33.125	in	Bwl / T		7.268
Navigational Draft, T	4.558	in	D / T		1.695

Volumetric Values

Displacement Weight	60.000	lbf	Displ-Length Ratio			203.634
Volume	0.937	ft^3				
LCB	26.938	in	FB/Lwl	0.579	AB/Lwl	0.421
TCB	0.019	in	TCB / Bwl			0.001
VCB	2.738	in				
Wetted Surface Area	9.220	ft^2				
Moment To Trim	6.374	lbf-ft/in				

Waterplane Values

Waterplane Area, Awp	3.601	ft^2				
LCF	26.967	in	FF/Lwl	0.579	AF/Lwl	0.421
TCF	0.018	in	TCF / Lwl			0.000
Weight To Immerse	19.220	lbf/in				

Sectional Parameters

Ax	0.222	ft^2	
Ax Location	14.722	in	Ax Location / Lwl	0.779

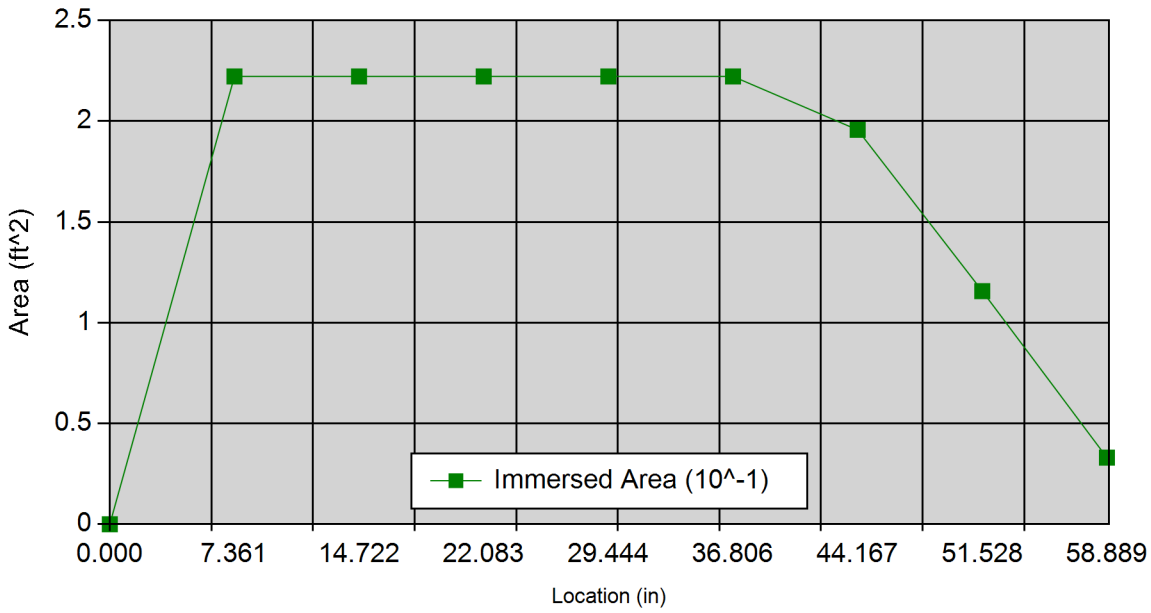
Hull Form Coefficients

Cb	0.176	Cx	0.212
Cp	0.829	Cwp	0.257
Cvp	0.685	Cws	4.224

Static Stability Parameters

I(transverse)	4.950	ft^4	I(longitudinal)	5.860	ft^4
BMt	63.407	in	BMl	75.056	in
GMt	66.145	in	GMl	77.795	in
Mt	61.587	in	Ml	73.236	in

Station Data



Location (in)	Immersed Area (ft^2)	Immersed Girth (in)
0.000	0.000	0.000
7.361	0.222	22.711
14.722	0.222	22.711
22.083	0.222	22.711
29.444	0.222	22.711
36.806	0.222	22.711
44.167	0.196	21.846
51.528	0.116	20.332
58.889	0.033	14.387

Default Project
Hydrostatics & Stability Analysis
Default Company
Report Time: Tuesday, February 21, 2023, 5:27:09 PM
Model Name: C:\Users\hlebronriver2021\Desktop\Cat_multihull.3dm

Condition Name=Condition 12,Weight=65.00,Model Trim=0.00,Model Heel=0.00

General Info

Analysis Type	FreeFloatEquilibrium	Up Direction = Positive_Z
		Fwd Direction = Positive_X

Surface Meshing Parameters

Density	1	Minimum edge length	0.0001 in
Maximum angle	0	Maximum edge length	0 in
Maximum aspect ratio	0	Max distance, edge to surf.	0 in
Minimum initial grid quads	0	Jagged seams	False
Refine mesh	True	Simple planes	True

Load Condition Parameters

Weight	65.000	lbf
Model Trim	0.000	deg
Model Heel	0.000	deg
VCG	0	in
Fluid Type	Seawater	
Fluid Density	1.991	slug/ft^3
Mirror Geometry	False	

Resultant Model Attitude

Heel Angle	0.000 deg	Sinkage	4.817 in
Trim Angle	0.000 deg		

Overall Dimensions

Length Overall, LOA	66.249 in	Loa / Boa	1.841
Beam Overall, Boa	35.989 in	Boa / D	4.658
Depth Overall, D	7.726 in		

Waterline Dimensions

Waterline Length, Lwl	61.207 in	Lwl / Bwl	1.846
Waterline Beam, Bwl	33.157 in	Bwl / T	6.883
Navigational Draft, T	4.817 in	D / T	1.604

Volumetric Values

Displacement Weight	65.000 lbf	Displ-Length Ratio			218.677
Volume	1.015 ft^3				
LCB	26.941 in	FB/Lwl	0.580	AB/Lwl	0.420
TCB	0.019 in	TCB / Bwl			0.001
VCB	2.888 in				
Wetted Surface Area	9.680 ft^2				
Moment To Trim	6.442 lbf-ft/in				

Waterplane Values

Waterplane Area, Awp	3.626 ft^2				
LCF	26.987 in	FF/Lwl	0.580	AF/Lwl	0.420
TCF	0.018 in	TCF / Lwl			0.000
Weight To Immerse	19.350 lbf/in				

Sectional Parameters

Ax	0.241 ft^2		
Ax Location	14.722 in	Ax Location / Lwl	0.780

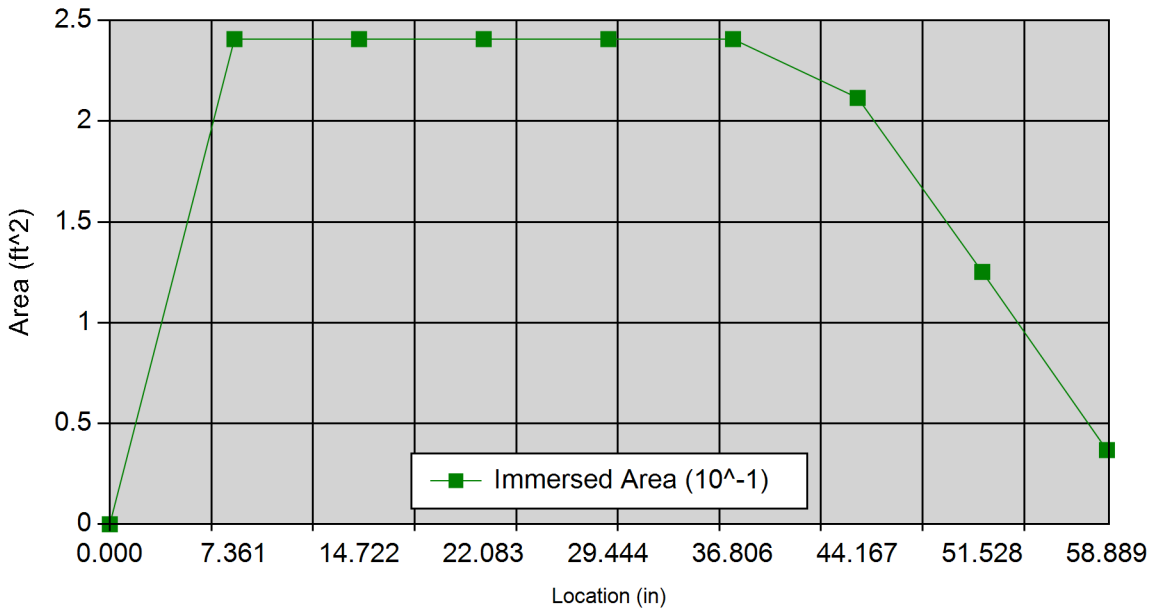
Hull Form Coefficients

Cb	0.179	Cx	0.217
Cp	0.827	Cwp	0.257
Cvp	0.697	Cws	4.255

Static Stability Parameters

I(transverse)	4.984	ft^4	I(longitudinal)	5.912	ft^4
BMt	58.933	in	BMl	69.900	in
GMt	61.821	in	GMl	72.788	in
Mt	57.004	in	Ml	67.971	in

Station Data



Location (in)	Immersed Area (ft^2)	Immersed Girth (in)
0.000	0.000	0.000
7.361	0.241	23.750
14.722	0.241	23.750
22.083	0.241	23.750
29.444	0.241	23.750
36.806	0.241	23.750
44.167	0.212	22.885
51.528	0.125	21.370
58.889	0.037	15.425

Default Project
Hydrostatics & Stability Analysis
Default Company
Report Time: Tuesday, February 21, 2023, 5:27:09 PM
Model Name: C:\Users\hlebronriver2021\Desktop\Cat_multihull.3dm

Condition Name=Condition 13,Weight=70.00,Model Trim=0.00,Model Heel=0.00

General Info

Analysis Type	FreeFloatEquilibrium	Up Direction = Positive_Z
		Fwd Direction = Positive_X

Surface Meshing Parameters

Density	1	Minimum edge length	0.0001 in
Maximum angle	0	Maximum edge length	0 in
Maximum aspect ratio	0	Max distance, edge to surf.	0 in
Minimum initial grid quads	0	Jagged seams	False
Refine mesh	True	Simple planes	True

Load Condition Parameters

Weight	70.000	lbf
Model Trim	0.000	deg
Model Heel	0.000	deg
VCG	0	in
Fluid Type	Seawater	
Fluid Density	1.991	slug/ft^3
Mirror Geometry	False	

Resultant Model Attitude

Heel Angle	0.000 deg	Sinkage	5.075 in
Trim Angle	0.000 deg		

Overall Dimensions

Length Overall, LOA	66.249 in	Loa / Boa	1.841
Beam Overall, Boa	35.989 in	Boa / D	4.658
Depth Overall, D	7.726 in		

Waterline Dimensions

Waterline Length, Lwl	61.385	in	Lwl / Bwl		1.850
Waterline Beam, Bwl	33.188	in	Bwl / T		6.540
Navigational Draft, T	5.075	in	D / T		1.522

Volumetric Values

Displacement Weight	70.000	lbf	Displ-Length Ratio			233.461
Volume	1.093	ft^3				
LCB	26.945	in	FB/Lwl	0.581	AB/Lwl	0.419
TCB	0.019	in	TCB / Bwl			0.001
VCB	3.035	in				
Wetted Surface Area	10.139	ft^2				
Moment To Trim	6.513	lbf-ft/in				

Waterplane Values

Waterplane Area, Awp	3.650	ft^2				
LCF	27.009	in	FF/Lwl	0.580	AF/Lwl	0.420
TCF	0.018	in	TCF / Lwl			0.000
Weight To Immerse	19.481	lbf/in				

Sectional Parameters

Ax	0.259	ft^2			
Ax Location	22.083	in	Ax Location / Lwl		0.661

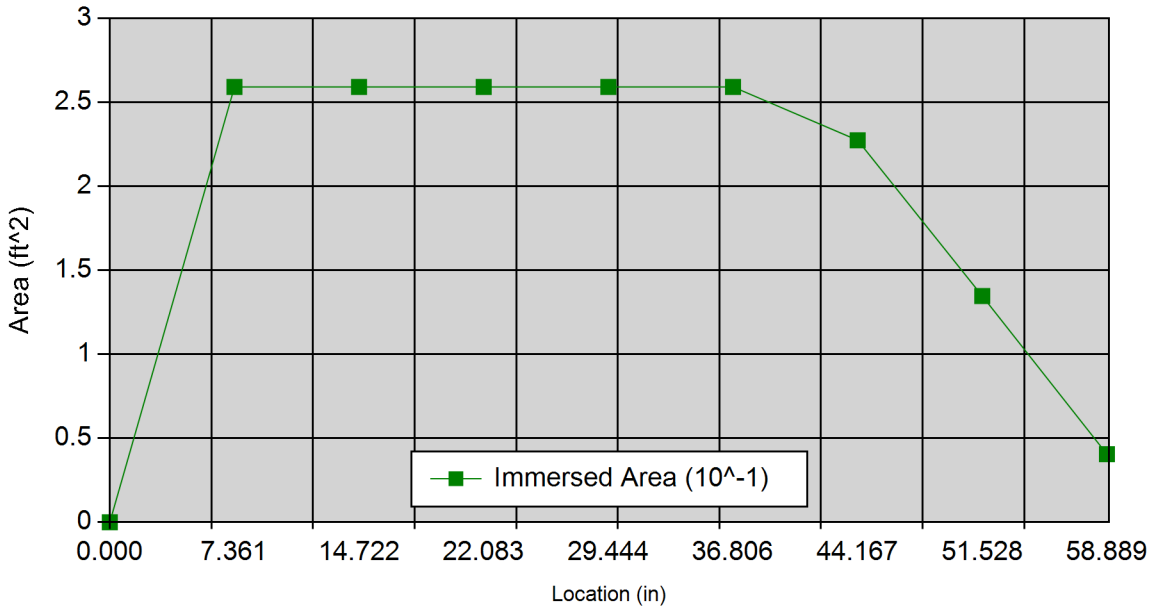
Hull Form Coefficients

Cb	0.183	Cx	0.222
Cp	0.824	Cwp	0.258
Cvp	0.708	Cws	4.288

Static Stability Parameters

I(transverse)	5.019	ft^4	I(longitudinal)	5.966	ft^4
BMt	55.101	in	BMl	65.498	in
GMt	58.136	in	GMl	68.534	in
Mt	53.061	in	Ml	63.459	in

Station Data



Location (in)	Immersed Area (ft^2)	Immersed Girth (in)
0.000	0.000	0.000
7.361	0.259	24.782
14.722	0.259	24.782
22.083	0.259	24.782
29.444	0.259	24.782
36.806	0.259	24.782
44.167	0.227	23.916
51.528	0.135	22.401
58.889	0.040	16.457

Default Project
Hydrostatics & Stability Analysis
Default Company
Report Time: Tuesday, February 21, 2023, 5:27:09 PM
Model Name: C:\Users\hlebronriver2021\Desktop\Cat_multihull.3dm

Condition Name=Condition 14,Weight=75.00,Model Trim=0.00,Model Heel=0.00

General Info

Analysis Type	FreeFloatEquilibrium	Up Direction = Positive_Z
		Fwd Direction = Positive_X

Surface Meshing Parameters

Density	1	Minimum edge length	0.0001 in
Maximum angle	0	Maximum edge length	0 in
Maximum aspect ratio	0	Max distance, edge to surf.	0 in
Minimum initial grid quads	0	Jagged seams	False
Refine mesh	True	Simple planes	True

Load Condition Parameters

Weight	75.000	lbf
Model Trim	0.000	deg
Model Heel	0.000	deg
VCG	0	in
Fluid Type	Seawater	
Fluid Density	1.991	slug/ft^3
Mirror Geometry	False	

Resultant Model Attitude

Heel Angle	0.000 deg	Sinkage	5.331 in
Trim Angle	0.000 deg		

Overall Dimensions

Length Overall, LOA	66.249 in	Loa / Boa	1.841
Beam Overall, Boa	35.989 in	Boa / D	4.658
Depth Overall, D	7.726 in		

Waterline Dimensions

Waterline Length, Lwl	61.561	in	Lwl / Bwl		1.853
Waterline Beam, Bwl	33.219	in	Bwl / T		6.232
Navigational Draft, T	5.330	in	D / T		1.449

Volumetric Values

Displacement Weight	75.000	lbf	Displ-Length Ratio			247.994
Volume	1.171	ft^3				
LCB	26.950	in	FB/Lwl	0.583	AB/Lwl	0.417
TCB	0.019	in	TCB / Bwl			0.001
VCB	3.180	in				
Wetted Surface Area	10.596	ft^2				
Moment To Trim	6.592	lbf-ft/in				

Waterplane Values

Waterplane Area, Awp	3.675	ft^2				
LCF	27.039	in	FF/Lwl	0.581	AF/Lwl	0.419
TCF	0.019	in	TCF / Lwl			0.000
Weight To Immerse	19.616	lbf/in				

Sectional Parameters

Ax	0.278	ft^2	
Ax Location	14.722	in	Ax Location / Lwl	0.781

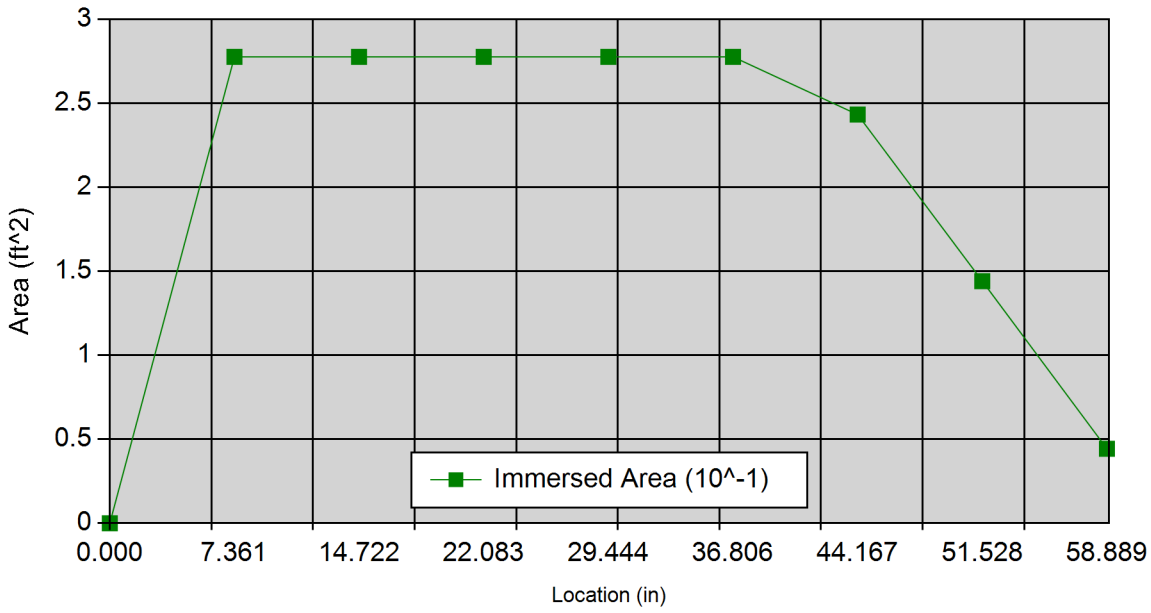
Hull Form Coefficients

Cb	0.186	Cx	0.226
Cp	0.822	Cwp	0.259
Cvp	0.717	Cws	4.323

Static Stability Parameters

I(transverse)	5.054	ft^4	I(longitudinal)	6.026	ft^4
BMt	51.790	in	BMl	61.746	in
GMt	54.970	in	GMl	64.926	in
Mt	49.639	in	Ml	59.595	in

Station Data



Location (in)	Immersed Area (ft^2)	Immersed Girth (in)
0.000	0.000	0.000
7.361	0.278	25.807
14.722	0.278	25.807
22.083	0.278	25.807
29.444	0.278	25.807
36.806	0.278	25.807
44.167	0.243	24.941
51.528	0.144	23.424
58.889	0.044	17.481

Default Project
Hydrostatics & Stability Analysis
Default Company
Report Time: Tuesday, February 21, 2023, 5:27:09 PM
Model Name: C:\Users\hlebronriver2021\Desktop\Cat_multihull.3dm

Condition Name=Condition 15,Weight=80.00,Model Trim=0.00,Model Heel=0.00

General Info

Analysis Type	FreeFloatEquilibrium	Up Direction = Positive_Z
		Fwd Direction = Positive_X

Surface Meshing Parameters

Density	1	Minimum edge length	0.0001 in
Maximum angle	0	Maximum edge length	0 in
Maximum aspect ratio	0	Max distance, edge to surf.	0 in
Minimum initial grid quads	0	Jagged seams	False
Refine mesh	True	Simple planes	True

Load Condition Parameters

Weight	80.000	lbf
Model Trim	0.000	deg
Model Heel	0.000	deg
VCG	0	in
Fluid Type	Seawater	
Fluid Density	1.991	slug/ft^3
Mirror Geometry	False	

Resultant Model Attitude

Heel Angle	0.000 deg	Sinkage	5.585 in
Trim Angle	0.000 deg		

Overall Dimensions

Length Overall, LOA	66.249 in	Loa / Boa	1.841
Beam Overall, Boa	35.989 in	Boa / D	4.658
Depth Overall, D	7.726 in		

Waterline Dimensions

Waterline Length, Lwl	61.736	in	Lwl / Bwl		1.857
Waterline Beam, Bwl	33.250	in	Bwl / T		5.954
Navigational Draft, T	5.584	in	D / T		1.383

Volumetric Values

Displacement Weight	80.000	lbf	Displ-Length Ratio			262.283
Volume	1.249	ft^3				
LCB	26.957	in	FB/Lwl	0.584	AB/Lwl	0.416
TCB	0.019	in	TCB / Bwl			0.001
VCB	3.322	in				
Wetted Surface Area	11.052	ft^2				
Moment To Trim	6.670	lbf-ft/in				

Waterplane Values

Waterplane Area, Awp	3.700	ft^2				
LCF	27.066	in	FF/Lwl	0.582	AF/Lwl	0.418
TCF	0.019	in	TCF / Lwl			0.000
Weight To Immerse	19.749	lbf/in				

Sectional Parameters

Ax	0.296	ft^2	
Ax Location	14.722	in	Ax Location / Lwl	0.782

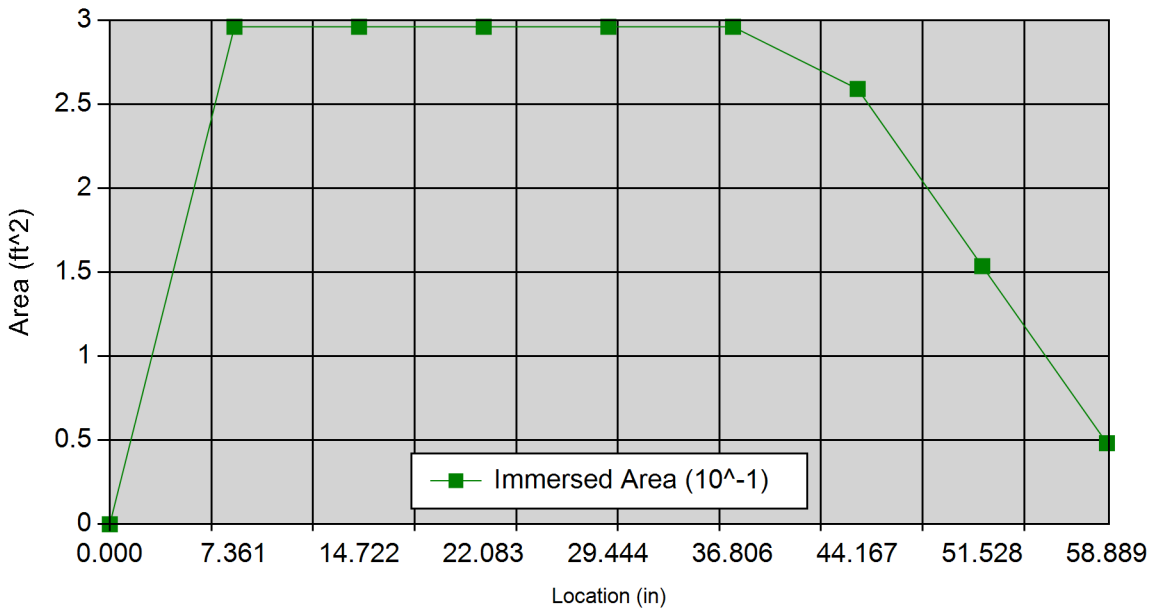
Hull Form Coefficients

Cb	0.188	Cx	0.230
Cp	0.820	Cwp	0.260
Cvp	0.725	Cws	4.360

Static Stability Parameters

I(transverse)	5.089	ft^4	I(longitudinal)	6.084	ft^4
BMt	48.888	in	BMl	58.448	in
GMt	52.210	in	GMl	61.770	in
Mt	46.625	in	Ml	56.185	in

Station Data



Location (in)	Immersed Area (ft^2)	Immersed Girth (in)
0.000	0.000	0.000
7.361	0.296	26.825
14.722	0.296	26.825
22.083	0.296	26.825
29.444	0.296	26.825
36.806	0.296	26.825
44.167	0.259	25.959
51.528	0.154	24.441
58.889	0.048	18.498

Default Project
Hydrostatics & Stability Analysis
Default Company
Report Time: Tuesday, February 21, 2023, 5:27:09 PM
Model Name: C:\Users\hlebronriver2021\Desktop\Cat_multihull.3dm

Condition Name=Condition 16,Weight=85.00,Model Trim=0.00,Model Heel=0.00

General Info

Analysis Type	FreeFloatEquilibrium	Up Direction = Positive_Z
		Fwd Direction = Positive_X

Surface Meshing Parameters

Density	1	Minimum edge length	0.0001 in
Maximum angle	0	Maximum edge length	0 in
Maximum aspect ratio	0	Max distance, edge to surf.	0 in
Minimum initial grid quads	0	Jagged seams	False
Refine mesh	True	Simple planes	True

Load Condition Parameters

Weight	85.000	lbf
Model Trim	0.000	deg
Model Heel	0.000	deg
VCG	0	in
Fluid Type	Seawater	
Fluid Density	1.991	slug/ft^3
Mirror Geometry	False	

Resultant Model Attitude

Heel Angle	0.000 deg	Sinkage	5.837 in
Trim Angle	0.000 deg		

Overall Dimensions

Length Overall, LOA	66.249 in	Loa / Boa	1.841
Beam Overall, Boa	35.989 in	Boa / D	4.658
Depth Overall, D	7.726 in		

Waterline Dimensions

Waterline Length, Lwl	61.895	in	Lwl / Bwl		1.860
Waterline Beam, Bwl	33.281	in	Bwl / T		5.702
Navigational Draft, T	5.837	in	D / T		1.324

Volumetric Values

Displacement Weight	85.000	lbf	Displ-Length Ratio			276.528
Volume	1.327	ft^3				
LCB	26.964	in	FB/Lwl	0.585	AB/Lwl	0.415
TCB	0.019	in	TCB / Bwl			0.001
VCB	3.463	in				
Wetted Surface Area	11.505	ft^2				
Moment To Trim	6.749	lbf-ft/in				

Waterplane Values

Waterplane Area, Awp	3.725	ft^2				
LCF	27.089	in	FF/Lwl	0.583	AF/Lwl	0.417
TCF	0.020	in	TCF / Lwl			0.000
Weight To Immerse	19.878	lbf/in				

Sectional Parameters

Ax	0.315	ft^2			
Ax Location	14.722	in	Ax Location / Lwl		0.782

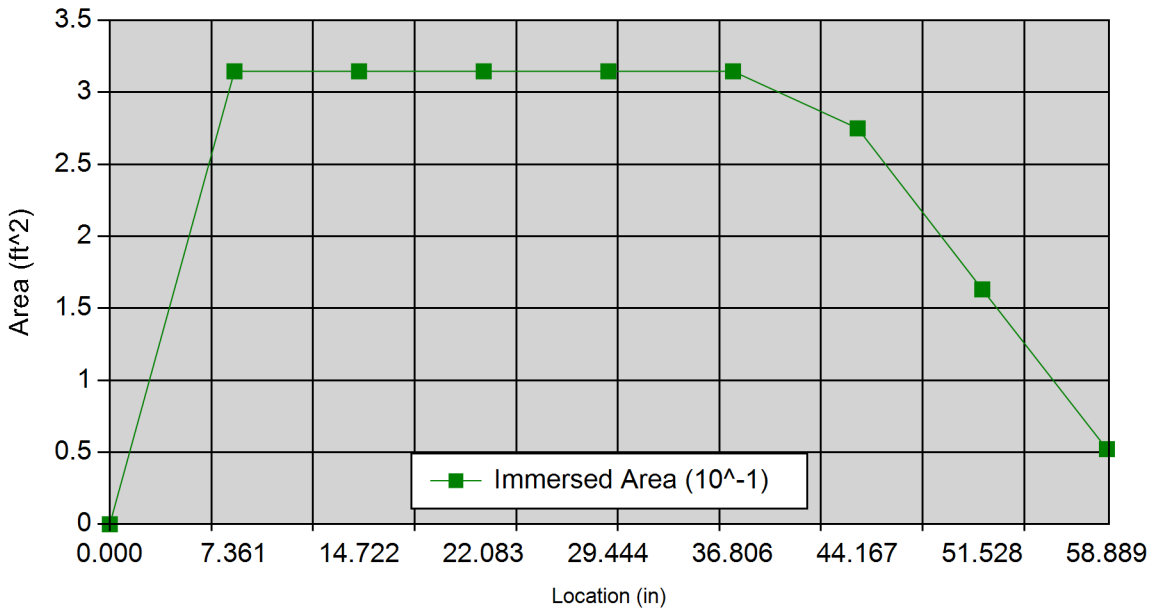
Hull Form Coefficients

Cb	0.191	Cx	0.233
Cp	0.818	Cwp	0.260
Cvp	0.733	Cws	4.397

Static Stability Parameters

I(transverse)	5.123	ft^4	I(longitudinal)	6.139	ft^4
BMt	46.318	in	BMl	55.511	in
GMt	49.781	in	GMl	58.974	in
Mt	43.944	in	Ml	53.137	in

Station Data



Location (in)	Immersed Area (ft^2)	Immersed Girth (in)
0.000	0.000	0.000
7.361	0.315	27.836
14.722	0.315	27.836
22.083	0.315	27.836
29.444	0.315	27.836
36.806	0.315	27.836
44.167	0.275	26.969
51.528	0.163	25.451
58.889	0.052	19.508

Default Project
Hydrostatics & Stability Analysis
Default Company
Report Time: Tuesday, February 21, 2023, 5:27:09 PM
Model Name: C:\Users\hlebronriver2021\Desktop\Cat_multihull.3dm

Condition Name=Condition 17,Weight=90.00,Model Trim=0.00,Model Heel=0.00

General Info

Analysis Type	FreeFloatEquilibrium	Up Direction = Positive_Z
		Fwd Direction = Positive_X

Surface Meshing Parameters

Density	1	Minimum edge length	0.0001 in
Maximum angle	0	Maximum edge length	0 in
Maximum aspect ratio	0	Max distance, edge to surf.	0 in
Minimum initial grid quads	0	Jagged seams	False
Refine mesh	True	Simple planes	True

Load Condition Parameters

Weight	90.000	lbf
Model Trim	0.000	deg
Model Heel	0.000	deg
VCG	0	in
Fluid Type	Seawater	
Fluid Density	1.991	slug/ft^3
Mirror Geometry	False	

Resultant Model Attitude

Heel Angle	0.000 deg	Sinkage	6.088 in
Trim Angle	0.000 deg		

Overall Dimensions

Length Overall, LOA	66.249 in	Loa / Boa	1.841
Beam Overall, Boa	35.989 in	Boa / D	4.658
Depth Overall, D	7.726 in		

Waterline Dimensions

Waterline Length, Lwl	62.053 in	Lwl / Bwl	1.863
Waterline Beam, Bwl	33.311 in	Bwl / T	5.472
Navigational Draft, T	6.088 in	D / T	1.269

Volumetric Values

Displacement Weight	90.000 lbf	Displ-Length Ratio			290.576
Volume	1.405 ft^3				
LCB	26.971 in	FB/Lwl	0.585	AB/Lwl	0.415
TCB	0.019 in	TCB / Bwl			0.001
VCB	3.602 in				
Wetted Surface Area	11.957 ft^2				
Moment To Trim	6.828 lbf-ft/in				

Waterplane Values

Waterplane Area, Awp	3.748 ft^2				
LCF	27.109 in	FF/Lwl	0.583	AF/Lwl	0.417
TCF	0.020 in	TCF / Lwl			0.000
Weight To Immerse	20.005 lbf/in				

Sectional Parameters

Ax	0.333 ft^2		
Ax Location	14.722 in	Ax Location / Lwl	0.783

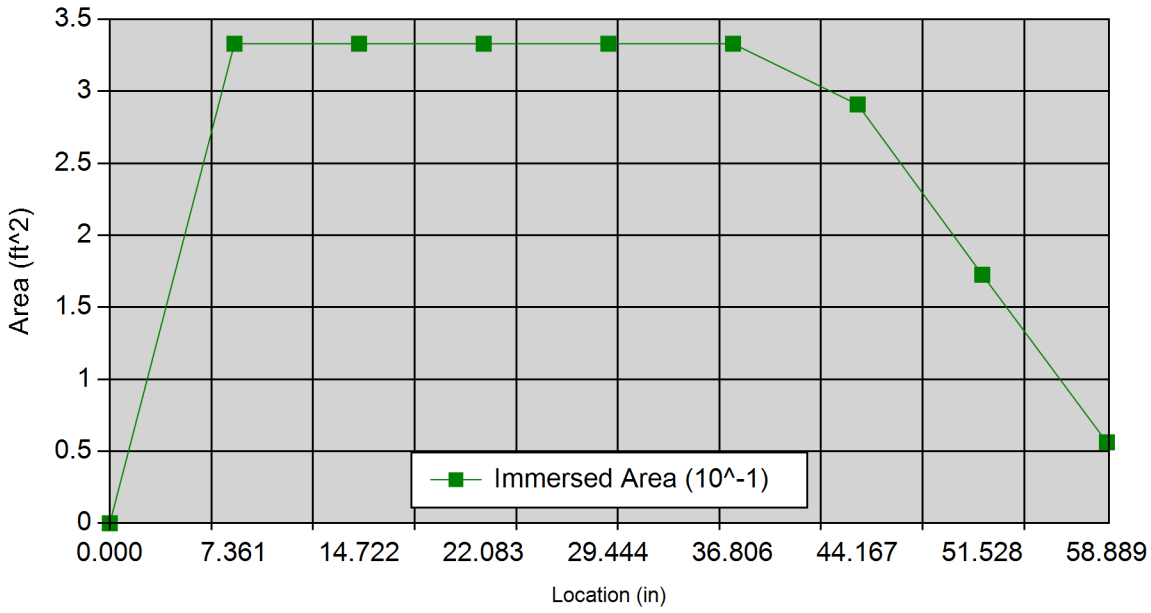
Hull Form Coefficients

Cb	0.193	Cx	0.236
Cp	0.816	Cwp	0.261
Cvp	0.739	Cws	4.436

Static Stability Parameters

I(transverse)	5.156	ft^4	I(longitudinal)	6.193	ft^4
BMt	44.029	in	BMl	52.887	in
GMt	47.631	in	GMl	56.489	in
Mt	41.543	in	Ml	50.401	in

Station Data



Location (in)	Immersed Area (ft^2)	Immersed Girth (in)
0.000	0.000	0.000
7.361	0.333	28.841
14.722	0.333	28.841
22.083	0.333	28.841
29.444	0.333	28.841
36.806	0.333	28.841
44.167	0.291	27.974
51.528	0.173	26.455
58.889	0.056	20.513

Default Project
Hydrostatics & Stability Analysis
Default Company
Report Time: Tuesday, February 21, 2023, 5:27:09 PM
Model Name: C:\Users\hlebronriver2021\Desktop\Cat_multihull.3dm

Condition Name=Condition 18,Weight=95.00,Model Trim=0.00,Model Heel=0.00

General Info

Analysis Type	FreeFloatEquilibrium	Up Direction = Positive_Z
		Fwd Direction = Positive_X

Surface Meshing Parameters

Density	1	Minimum edge length	0.0001 in
Maximum angle	0	Maximum edge length	0 in
Maximum aspect ratio	0	Max distance, edge to surf.	0 in
Minimum initial grid quads	0	Jagged seams	False
Refine mesh	True	Simple planes	True

Load Condition Parameters

Weight	95.000	lbf
Model Trim	0.000	deg
Model Heel	0.000	deg
VCG	0	in
Fluid Type	Seawater	
Fluid Density	1.991	slug/ft^3
Mirror Geometry	False	

Resultant Model Attitude

Heel Angle	0.000 deg	Sinkage	6.337 in
Trim Angle	0.000 deg		

Overall Dimensions

Length Overall, LOA	66.249 in	Loa / Boa	1.841
Beam Overall, Boa	35.989 in	Boa / D	4.658
Depth Overall, D	7.726 in		

Waterline Dimensions

Waterline Length, Lwl	62.209 in	Lwl / Bwl	1.866
Waterline Beam, Bwl	33.341 in	Bwl / T	5.262
Navigational Draft, T	6.337 in	D / T	1.219

Volumetric Values

Displacement Weight	95.000 lbf	Displ-Length Ratio			304.415
Volume	1.483 ft^3				
LCB	26.979 in	FB/Lwl	0.586	AB/Lwl	0.414
TCB	0.019 in	TCB / Bwl			0.001
VCB	3.739 in				
Wetted Surface Area	12.408 ft^2				
Moment To Trim	6.912 lbf-ft/in				

Waterplane Values

Waterplane Area, Awp	3.773 ft^2				
LCF	27.136 in	FF/Lwl	0.584	AF/Lwl	0.416
TCF	0.020 in	TCF / Lwl			0.000
Weight To Immerse	20.135 lbf/in				

Sectional Parameters

Ax	0.351 ft^2		
Ax Location	7.361 in	Ax Location / Lwl	0.902

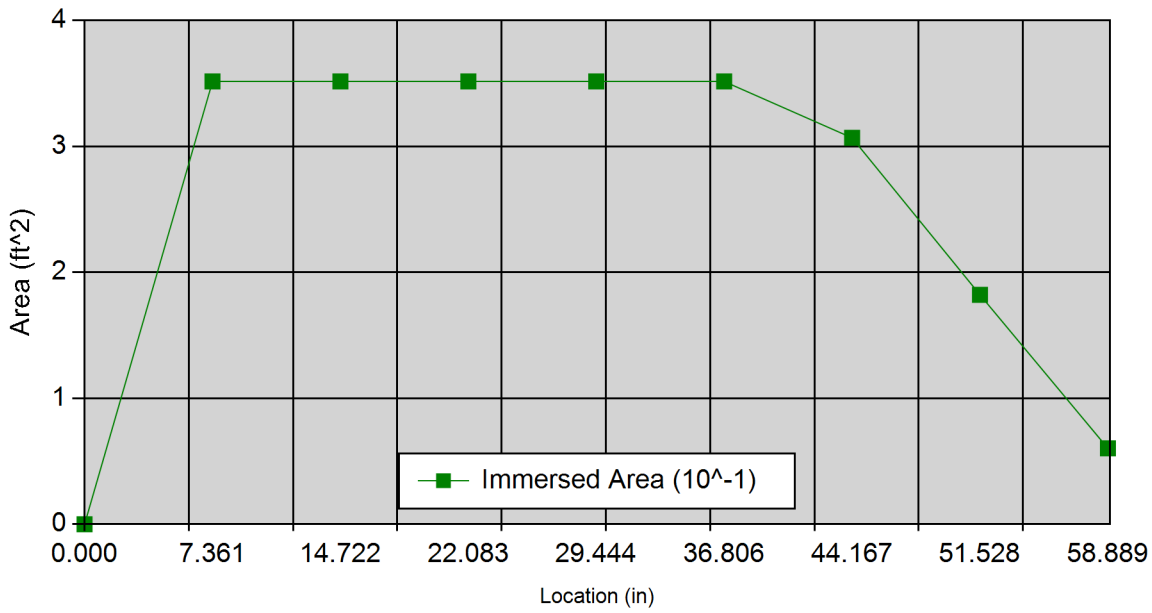
Hull Form Coefficients

Cb	0.195	Cx	0.240
Cp	0.814	Cwp	0.262
Cvp	0.745	Cws	4.474

Static Stability Parameters

I(transverse)	5.190	ft^4	I(longitudinal)	6.251	ft^4
BMt	41.989	in	BMl	50.571	in
GMt	45.728	in	GMl	54.310	in
Mt	39.391	in	Ml	47.973	in

Station Data



Location (in)	Immersed Area (ft^2)	Immersed Girth (in)
0.000	0.000	0.000
7.361	0.351	29.839
14.722	0.351	29.839
22.083	0.351	29.839
29.444	0.351	29.839
36.806	0.351	29.839
44.167	0.307	28.972
51.528	0.182	27.452
58.889	0.060	21.510

Condition Name=Condition 19,Weight=100.00,Model Trim=0.00,Model Heel=0.00

General Info

Analysis Type	FreeFloatEquilibrium	Up Direction = Positive_Z
		Fwd Direction = Positive_X

Surface Meshing Parameters

Density	1	Minimum edge length	0.0001 in
Maximum angle	0	Maximum edge length	0 in
Maximum aspect ratio	0	Max distance, edge to surf.	0 in
Minimum initial grid quads	0	Jagged seams	False
Refine mesh	True	Simple planes	True

Load Condition Parameters

Weight	100.000	lbf
Model Trim	0.000	deg
Model Heel	0.000	deg
VCG	0	in
Fluid Type	Seawater	
Fluid Density	1.991	slug/ft^3
Mirror Geometry	False	

Resultant Model Attitude

Heel Angle	0.000 deg	Sinkage	6.584 in
Trim Angle	0.000 deg		

Overall Dimensions

Length Overall, LOA	66.249 in	Loa / Boa	1.841
Beam Overall, Boa	35.989 in	Boa / D	4.658
Depth Overall, D	7.726 in		

Waterline Dimensions

Waterline Length, Lwl	62.364	in	Lwl / Bwl		1.869
Waterline Beam, Bwl	33.371	in	Bwl / T		5.068
Navigational Draft, T	6.584	in	D / T		1.173

Volumetric Values

Displacement Weight	100.000	lbf	Displ-Length Ratio			318.052
Volume	1.561	ft^3				
LCB	26.988	in	FB/Lwl	0.587	AB/Lwl	0.413
TCB	0.019	in	TCB / Bwl			0.001
VCB	3.875	in				
Wetted Surface Area	12.856	ft^2				
Moment To Trim	7.000	lbf-ft/in				

Waterplane Values

Waterplane Area, Awp	3.797	ft^2				
LCF	27.165	in	FF/Lwl	0.584	AF/Lwl	0.416
TCF	0.020	in	TCF / Lwl			0.000
Weight To Immerse	20.267	lbf/in				

Sectional Parameters

Ax	0.370	ft^2			
Ax Location	14.722	in	Ax Location / Lwl		0.784

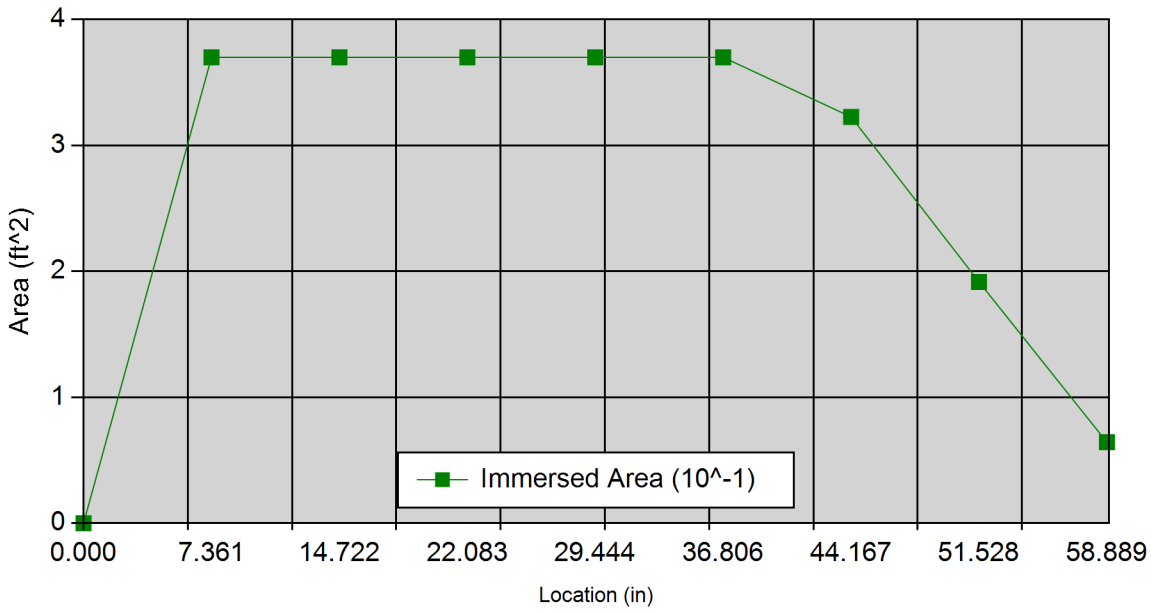
Hull Form Coefficients

Cb	0.197	Cx	0.242
Cp	0.812	Cwp	0.263
Cvp	0.749	Cws	4.513

Static Stability Parameters

I(transverse)	5.225	ft^4	I(longitudinal)	6.312	ft^4
BMt	40.155	in	BMl	48.512	in
GMt	44.030	in	GMl	52.387	in
Mt	37.445	in	Ml	45.803	in

Station Data



Location (in)	Immersed Area (ft^2)	Immersed Girth (in)
0.000	0.000	0.000
7.361	0.370	30.831
14.722	0.370	30.831
22.083	0.370	30.831
29.444	0.370	30.831
36.806	0.370	30.831
44.167	0.323	29.963
51.528	0.192	28.442
58.889	0.064	22.501