

Default Project

Cross Curves Of Stability

Default Company

Report Time: 27 May 2022, 00:14:36

Model Name: C:\Users\User\Desktop\NTU\sophomore2\Naval\shitship.3dm



Condition Summary**Load Condition Parameters**

Condition	Weight / Sinkage	LCG / Trim	TCG / Heel	VCG (cm)
Condition 1	0.500 cm	0.000 deg	0.000 deg	0
Condition 2	1.000 cm	0.000 deg	0.000 deg	0
Condition 3	2.000 cm	0.000 deg	0.000 deg	0
Condition 4	2.500 cm	0.000 deg	0.000 deg	0
Condition 5	3.000 cm	0.000 deg	0.000 deg	0
Condition 6	3.500 cm	0.000 deg	0.000 deg	0
Condition 7	4.000 cm	0.000 deg	0.000 deg	0
Condition 8	4.500 cm	0.000 deg	0.000 deg	0

Resulting Model Attitude and Hydrostatic Properties

Condition	Sinkage (cm)	Trim(deg)	Heel(deg)	Ax(m^2)
Condition 1	0.500	0.000	0.000	0.00
Condition 2	1.000	0.000	0.000	0.00
Condition 3	2.000	0.000	0.000	0.00
Condition 4	2.500	0.000	0.000	0.00
Condition 5	3.000	0.000	0.000	0.00
Condition 6	3.500	0.000	0.000	0.00
Condition 7	4.000	0.000	0.000	0.00
Condition 8	4.500	0.000	0.000	0.00

Default Project

Cross Curves Of Stability

Default Company

Report Time: 27 May 2022, 00:14:36

Model Name: C:\Users\User\Desktop\NTU\sophomore2\Naval\shitship.3dm



Condition	Displacement Weight (kgf)	LCB(cm)	TCB(cm)	VCB(cm)	Wet Area (m^2)
Condition 1	0.036	7.393	0.000	0.264	0.009
Condition 2	0.084	7.326	0.000	0.545	0.012
Condition 3	0.205	7.269	0.000	1.122	0.018
Condition 4	0.276	7.266	0.000	1.410	0.020
Condition 5	0.351	7.270	0.000	1.698	0.023
Condition 6	0.431	7.282	0.000	1.988	0.026
Condition 7	0.518	7.303	0.000	2.282	0.029
Condition 8	0.611	7.342	0.000	2.584	0.032

Condition	Awp(m^2)	LCF(cm)	TCF(cm)	VCF(cm)
Condition 1	0.008	7.326	0.000	0.500
Condition 2	0.010	7.242	0.000	1.000
Condition 3	0.013	7.242	0.000	2.000
Condition 4	0.014	7.270	0.000	2.500
Condition 5	0.015	7.307	0.000	3.000
Condition 6	0.016	7.362	0.000	3.500
Condition 7	0.017	7.468	0.000	4.000
Condition 8	0.019	7.664	0.000	4.500

Condition	BMt(cm)	BMI(cm)	GMt(cm)	GMI(cm)
Condition 1	5.541	45.665	5.805	45.929
Condition 2	4.212	27.145	4.757	27.690
Condition 3	3.131	16.227	4.253	17.349
Condition 4	2.778	13.787	4.188	15.197
Condition 5	2.529	12.225	4.227	13.923
Condition 6	2.366	11.268	4.354	13.256
Condition 7	2.278	10.863	4.560	13.146
Condition 8	2.249	11.037	4.833	13.621

Default Project

Cross Curves Of Stability

Default Company

Report Time: 27 May 2022, 00:14:36

Model Name: C:\Users\User\Desktop\NTU\sophomore2\Naval\shitship.3dm



Condition	Cb	Cp	Cwp	Cx	Cws	Cvp
Condition 1	0.583	0.650	0.680	0.897	3.485	0.857
Condition 2	0.548	0.649	0.689	0.845	2.991	0.795
Condition 3	0.519	0.639	0.681	0.811	2.703	0.762
Condition 4	0.512	0.633	0.676	0.809	2.656	0.757
Condition 5	0.505	0.626	0.673	0.808	2.638	0.752
Condition 6	0.500	0.618	0.674	0.808	2.638	0.741
Condition 7	0.495	0.611	0.687	0.811	2.649	0.722
Condition 8	0.495	0.604	0.713	0.818	2.672	0.694

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.

Default Project

Cross Curves Of Stability

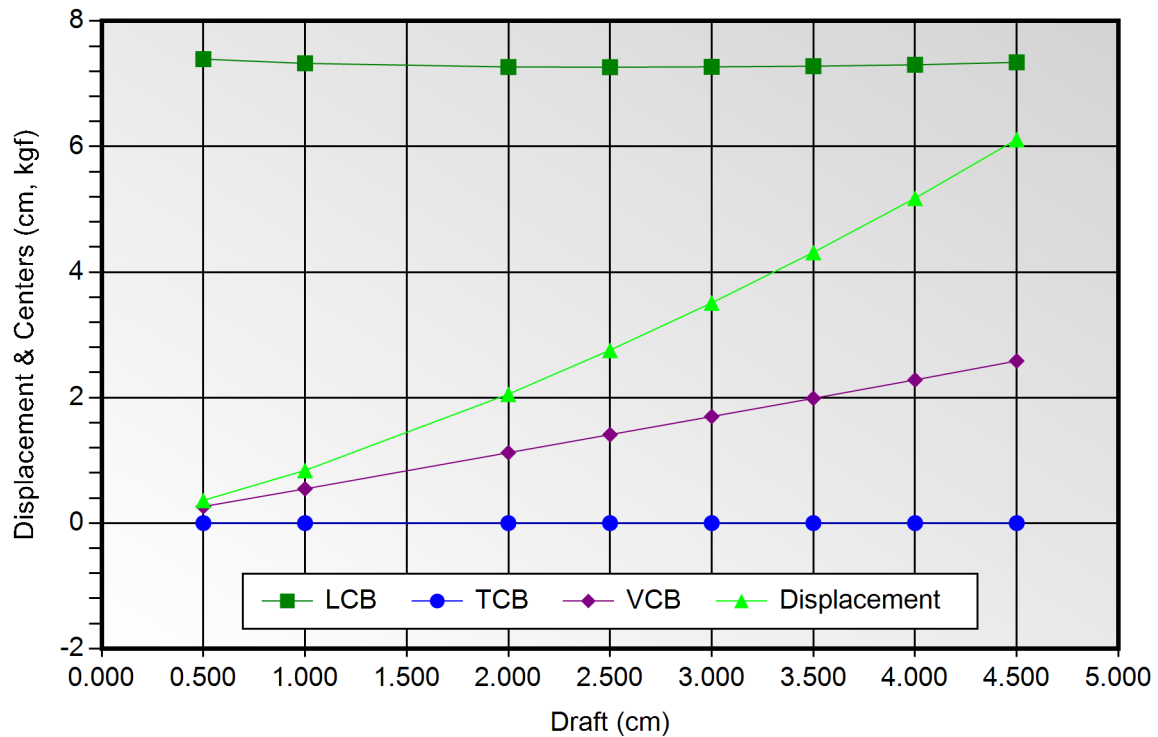
Default Company

Report Time: 27 May 2022, 00:14:36

Model Name: C:\Users\User\Desktop\NTU\sophomore2\Naval\shitship.3dm



Volumetric Properties



Default Project

Cross Curves Of Stability

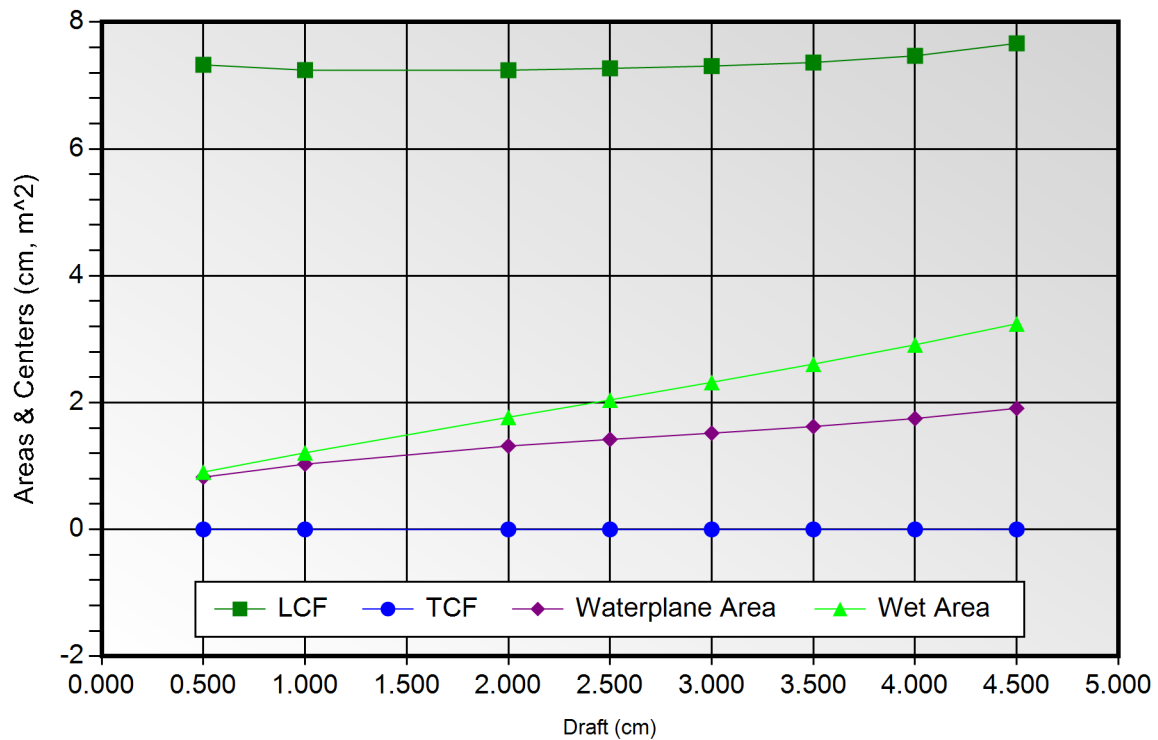
Default Company

Report Time: 27 May 2022, 00:14:36

Model Name: C:\Users\User\Desktop\NTU\sophomore2\Naval\shitship.3dm



Area Properties



Default Project

Cross Curves Of Stability

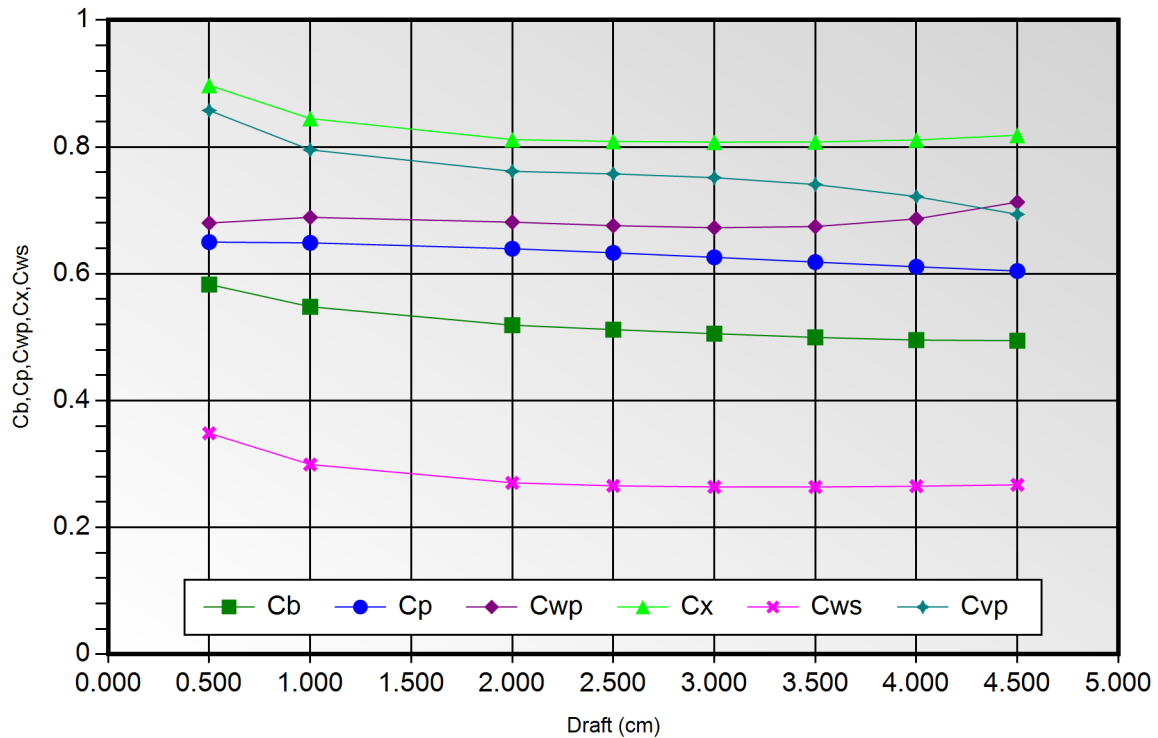
Default Company

Report Time: 27 May 2022, 00:14:36

Model Name: C:\Users\User\Desktop\NTU\sophomore2\Naval\shitship.3dm



Hull Form Coefficients



Default Project

Cross Curves Of Stability

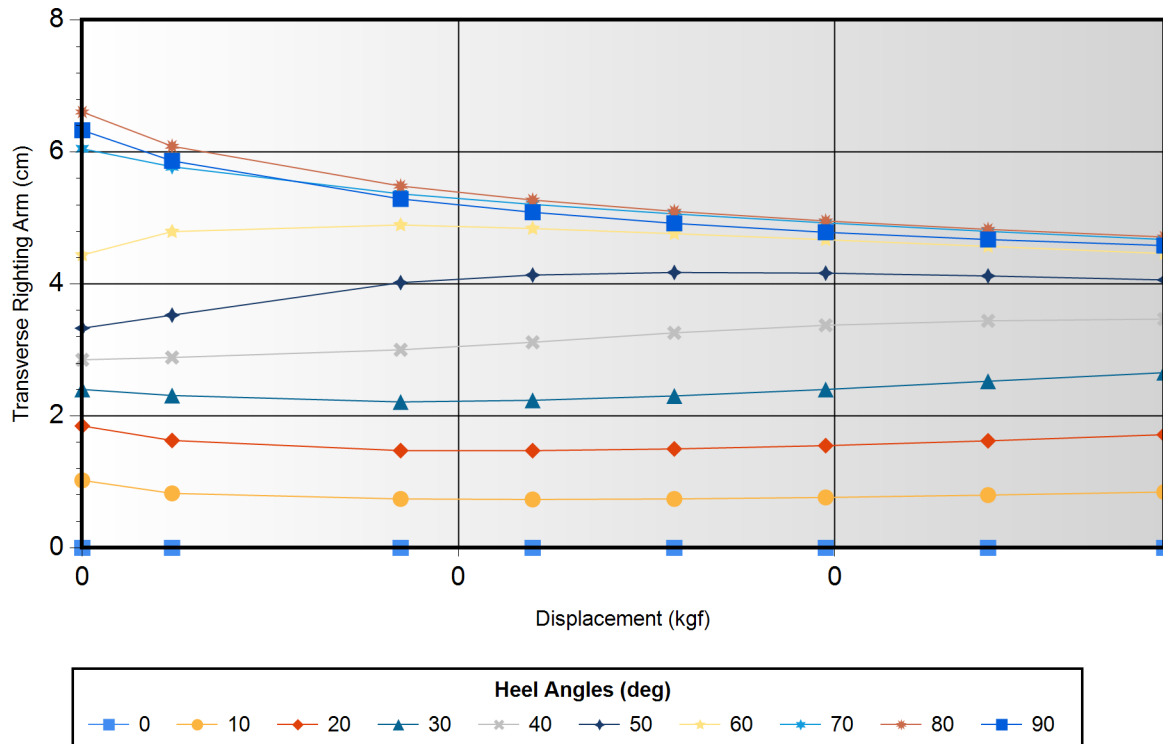
Default Company

Report Time: 27 May 2022, 00:14:36

Model Name: C:\Users\User\Desktop\NTU\sophomore2\Naval\shitship.3dm



Cross Curves of Stability



Cross Curve Data

Default Project

Cross Curves Of Stability

Default Company

Report Time: 27 May 2022, 00:14:36

Model Name: C:\Users\User\Desktop\NTU\sophomore2\Naval\shitship.3dm



Displacement (kgf)	Sinkage (cm)	0 deg	10 deg	20 deg	30 deg	40 deg
0.036	0.500	0.000	1.022	1.848	2.401	2.851
0.084	1.000	0.000	0.825	1.627	2.309	2.885
0.205	2.000	0.000	0.741	1.474	2.211	3.002
0.276	2.500	0.000	0.733	1.473	2.236	3.116
0.351	3.000	0.000	0.741	1.499	2.302	3.260
0.431	3.500	0.000	0.763	1.549	2.401	3.374
0.518	4.000	0.000	0.799	1.622	2.526	3.441
0.611	4.500	0.000	0.846	1.716	2.655	3.468

Default Project

Cross Curves Of Stability

Default Company

Report Time: 27 May 2022, 00:14:36

Model Name: C:\Users\User\Desktop\NTU\sophomore2\Naval\shitship.3dm



Displacement (kgf)	50 deg	60 deg	70 deg	80 deg	90 deg
0.036	3.330	4.440	6.051	6.609	6.331
0.084	3.528	4.795	5.778	6.089	5.867
0.205	4.021	4.895	5.367	5.485	5.290
0.276	4.136	4.841	5.207	5.273	5.087
0.351	4.175	4.763	5.062	5.101	4.919
0.431	4.165	4.671	4.927	4.956	4.784
0.518	4.122	4.570	4.798	4.828	4.674
0.611	4.062	4.462	4.675	4.712	4.583

Default Project

Cross Curves Of Stability

Default Company

Report Time: 27 May 2022, 00:14:36

Model Name: C:\Users\User\Desktop\NTU\sophomore2\Naval\shitship.3dm



Object Type	Name	ID
多重曲面	Unnamed Rhino Object	{538db74b-51ea-441c-b2b5-ec8113b03553}

Default Project

Cross Curves Of Stability

Default Company

Report Time: 27 May 2022, 00:14:36

Model Name: C:\Users\User\Desktop\NTU\sophomore2\Naval\shitship.3dm



Condition Name=Condition 1, Model Sinkage=0.50, Model Trim=0.00, Model Heel=0.00

General Info

Analysis Type	FreeFloatEquilibrium	Up Direction = Positive_Z
		Fwd Direction = Negative_X

Surface Meshing Parameters

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

Load Condition Parameters

Model Sinkage	0.500 cm
Model Trim	0.000 deg
Model Heel	0.000 deg
VCG	0 cm
Fluid Type	Seawater
Fluid Density	1025.900 kg/m ³
Mirror Geometry	False

Resultant Model Attitude

Heel Angle	0.000 deg	Sinkage	0.500 cm
Trim Angle	0.000 deg		

Overall Dimensions

Length Overall, LOA	29.000 cm	Loa / Boa	2.219
Beam Overall, Boa	13.072 cm	Boa / D	1.745
Depth Overall, D	7.490 cm		

Default Project

Cross Curves Of Stability

Default Company

Report Time: 27 May 2022, 00:14:36

Model Name: C:\Users\User\Desktop\NTU\sophomore2\Naval\shitship.3dm

**Waterline Dimensions**

Waterline Length, Lwl	19.050 cm	Lwl / Bwl	2.994
Waterline Beam, Bwl	6.362 cm	Bwl / T	12.724
Navigational Draft, T	0.500 cm	D / T	14.980

Volumetric Values

Displacement Weight	0.036 kgf	Displ-Length Ratio	146.125
Volume	0.000 m ³		
LCB	7.393 cm	FB/Lwl 0.409	AB/Lwl 0.591
TCB	0.000 cm	TCB / Bwl	0.000
VCB	0.264 cm		
Wetted Surface Area	0.009 m ²		
Moment To Trim	0.001 kgf-m/cm		

Waterplane Values

Waterplane Area, Awp	0.008 m ²		
LCF	7.326 cm	FF/Lwl 0.406	AF/Lwl 0.594
TCF	0.000 cm	TCF / Lwl	0.000
Weight To Immerse	0.085 kgf/cm		

Sectional Parameters

Ax	0.000 m ²		
Ax Location	5.260 cm	Ax Location / Lwl	0.297

Hull Form Coefficients

Cb	0.583	Cx	0.897
Cp	0.650	Cwp	0.680
Cvp	0.857	Cws	3.485

Static Stability Parameters

Default Project

Cross Curves Of Stability

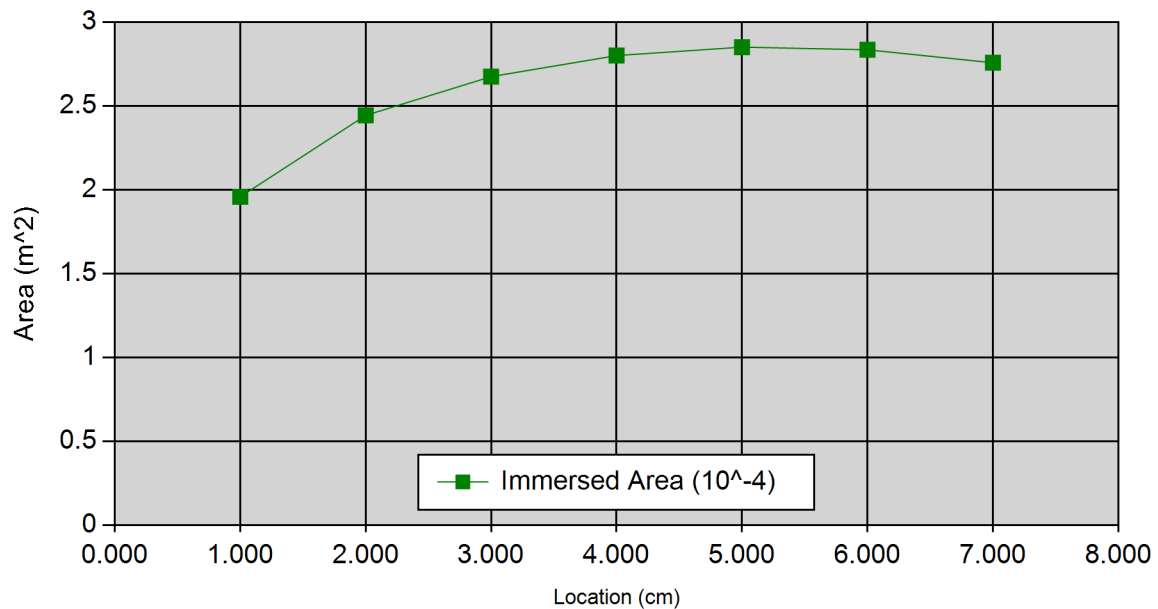
Default Company

Report Time: 27 May 2022, 00:14:36

Model Name: C:\Users\User\Desktop\NTU\sophomore2\Naval\shitship.3dm



I(transverse)	0.000 m ⁴	I(longitudinal)	0.000 m ⁴
BMt	5.541 cm	BMI	45.665 cm
GMt	5.805 cm	GMI	45.929 cm
Mt	5.305 cm	MI	45.429 cm

Station Data

Location (cm)	Immersed Area (m ²)	Immersed Girth (cm)
1.000	0.000	5.141
2.000	0.000	5.993
3.000	0.000	6.402
4.000	0.000	6.613
5.000	0.000	6.693
6.000	0.000	6.665
7.000	0.000	6.522

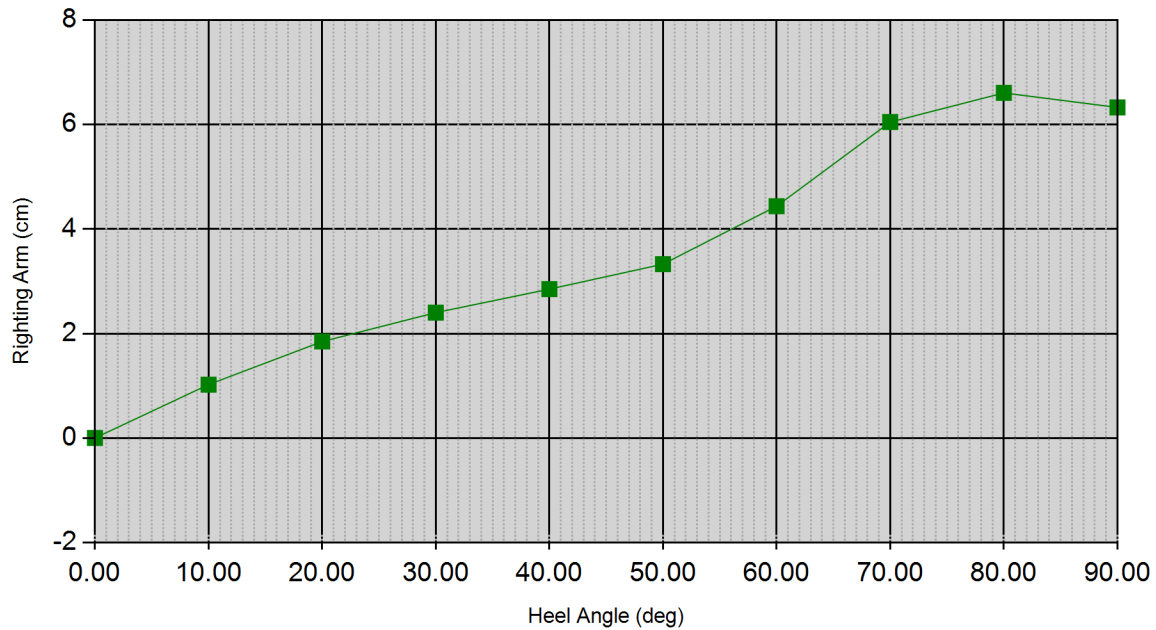
Default Project

Cross Curves Of Stability

Default Company

Report Time: 27 May 2022, 00:14:36

Model Name: C:\Users\User\Desktop\NTU\sophomore2\Naval\shitship.3dm

**Stability Curve**

Heel(deg)	Trim(deg)	Righting Arm (cm)	Righting Moment (kgf-m)
0.000	0.000	0.000	0.00
10.000	0.196	1.022	0.00
20.000	0.922	1.848	0.00
30.000	2.098	2.401	0.00
40.000	3.561	2.851	0.00
50.000	5.192	3.330	0.00
60.000	5.636	4.440	0.00
70.000	4.098	6.051	0.00
80.000	3.065	6.609	0.00
90.000	2.467	6.331	0.00

Default Project

Cross Curves Of Stability

Default Company

Report Time: 27 May 2022, 00:14:36

Model Name: C:\Users\User\Desktop\NTU\sophomore2\Naval\shitship.3dm



Condition Name=Condition 2, Model Sinkage=1.00, Model Trim=0.00, Model Heel=0.00

General Info

Analysis Type	FreeFloatEquilibrium	Up Direction = Positive_Z
		Fwd Direction = Negative_X

Surface Meshing Parameters

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

Load Condition Parameters

Model Sinkage	1.000 cm
Model Trim	0.000 deg
Model Heel	0.000 deg
VCG	0 cm
Fluid Type	Seawater
Fluid Density	1025.900 kg/m ³
Mirror Geometry	False

Resultant Model Attitude

Heel Angle	0.000 deg	Sinkage	1.000 cm
Trim Angle	0.000 deg		

Overall Dimensions

Length Overall, LOA	29.000 cm	Loa / Boa	2.219
Beam Overall, Boa	13.072 cm	Boa / D	1.745
Depth Overall, D	7.490 cm		

Default Project

Cross Curves Of Stability

Default Company

Report Time: 27 May 2022, 00:14:36

Model Name: C:\Users\User\Desktop\NTU\sophomore2\Naval\shitship.3dm

**Waterline Dimensions**

Waterline Length, Lwl	19.936 cm	Lwl / Bwl	2.661
Waterline Beam, Bwl	7.492 cm	Bwl / T	7.492
Navigational Draft, T	1.000 cm	D / T	7.490

Volumetric Values

Displacement Weight	0.084 kgf	Displ-Length Ratio	295.338
Volume	0.000 m ³		
LCB	7.326 cm	FB/Lwl 0.409	AB/Lwl 0.591
TCB	0.000 cm	TCB / Bwl	0.000
VCB	0.545 cm		
Wetted Surface Area	0.012 m ²		
Moment To Trim	0.001 kgf-m/cm		

Waterplane Values

Waterplane Area, Awp	0.010 m ²		
LCF	7.242 cm	FF/Lwl 0.405	AF/Lwl 0.595
TCF	0.000 cm	TCF / Lwl	0.000
Weight To Immerse	0.106 kgf/cm		

Sectional Parameters

Ax	0.001 m ²		
Ax Location	5.168 cm	Ax Location / Lwl	0.301

Hull Form Coefficients

Cb	0.548	Cx	0.845
Cp	0.649	Cwp	0.689
Cvp	0.795	Cws	2.991

Static Stability Parameters

Default Project

Cross Curves Of Stability

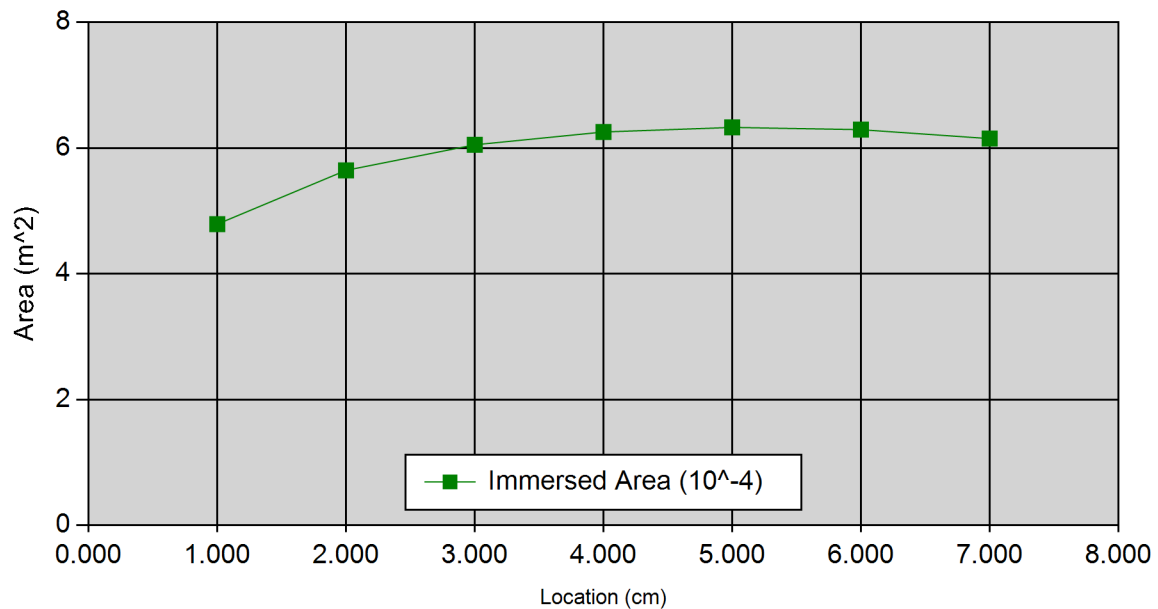
Default Company

Report Time: 27 May 2022, 00:14:36

Model Name: C:\Users\User\Desktop\NTU\sophomore2\Naval\shitship.3dm



I(transverse)	0.000 m^4	I(longitudinal)	0.000 m^4
BMt	4.212 cm	BMI	27.145 cm
GMt	4.757 cm	GMI	27.690 cm
Mt	3.757 cm	MI	26.690 cm

Station Data

Location (cm)	Immersed Area (m^2)	Immersed Girth (cm)
1.000	0.000	6.849
2.000	0.001	7.613
3.000	0.001	7.989
4.000	0.001	8.163
5.000	0.001	8.204
6.000	0.001	8.147
7.000	0.001	8.007

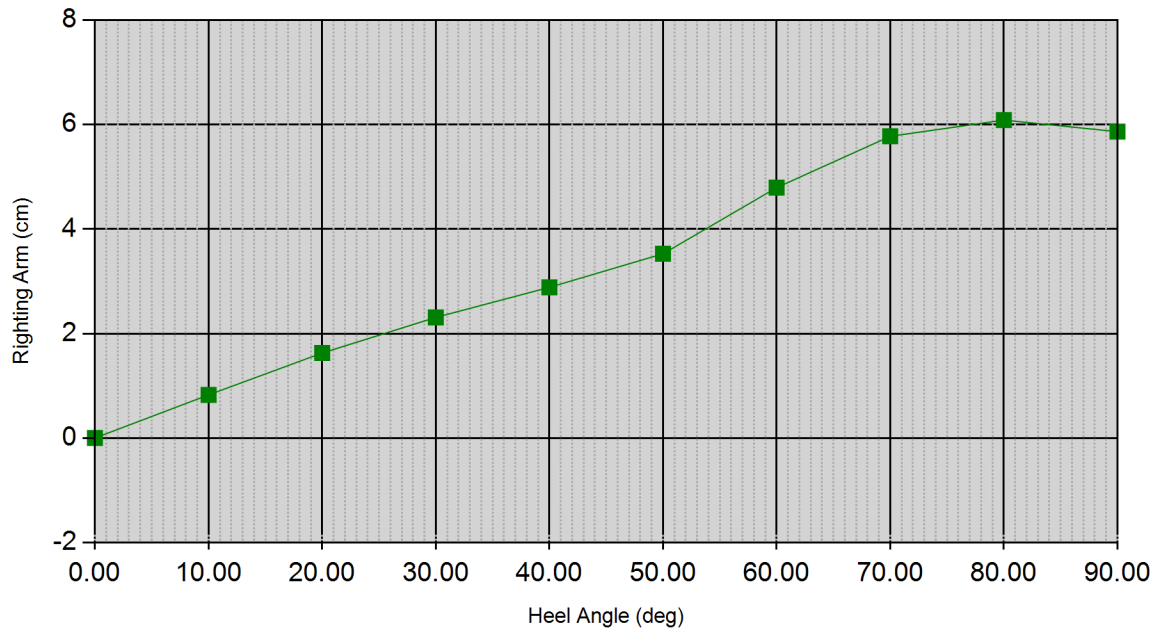
Default Project

Cross Curves Of Stability

Default Company

Report Time: 27 May 2022, 00:14:36

Model Name: C:\Users\User\Desktop\NTU\sophomore2\Naval\shitship.3dm

**Stability Curve**

Heel(deg)	Trim(deg)	Righting Arm (cm)	Righting Moment (kgf-m)
0.000	0.000	0.000	0.00
10.000	0.155	0.825	0.00
20.000	0.602	1.627	0.00
30.000	1.446	2.309	0.00
40.000	2.646	2.885	0.00
50.000	3.954	3.528	0.00
60.000	4.180	4.795	0.00
70.000	3.639	5.778	0.00
80.000	2.949	6.089	0.01
90.000	2.283	5.867	0.00

Default Project

Cross Curves Of Stability

Default Company

Report Time: 27 May 2022, 00:14:36

Model Name: C:\Users\User\Desktop\NTU\sophomore2\Naval\shitship.3dm



Condition Name=Condition 3, Model Sinkage=2.00, Model Trim=0.00, Model Heel=0.00

General Info

Analysis Type	FreeFloatEquilibrium	Up Direction = Positive_Z
		Fwd Direction = Negative_X

Surface Meshing Parameters

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

Load Condition Parameters

Model Sinkage	2.000 cm
Model Trim	0.000 deg
Model Heel	0.000 deg
VCG	0 cm
Fluid Type	Seawater
Fluid Density	1025.900 kg/m ³
Mirror Geometry	False

Resultant Model Attitude

Heel Angle	0.000 deg	Sinkage	2.000 cm
Trim Angle	0.000 deg		

Overall Dimensions

Length Overall, LOA	29.000 cm	Loa / Boa	2.219
Beam Overall, Boa	13.072 cm	Boa / D	1.745
Depth Overall, D	7.490 cm		

Default Project

Cross Curves Of Stability

Default Company

Report Time: 27 May 2022, 00:14:36

Model Name: C:\Users\User\Desktop\NTU\sophomore2\Naval\shitship.3dm

**Waterline Dimensions**

Waterline Length, Lwl	21.368 cm	Lwl / Bwl	2.366
Waterline Beam, Bwl	9.031 cm	Bwl / T	4.516
Navigational Draft, T	2.000 cm	D / T	3.745

Volumetric Values

Displacement Weight	0.205 kgf	Displ-Length Ratio	586.871
Volume	0.000 m ³		
LCB	7.269 cm	FB/Lwl 0.407	AB/Lwl 0.593
TCB	0.000 cm	TCB / Bwl	0.000
VCB	1.122 cm		
Wetted Surface Area	0.018 m ²		
Moment To Trim	0.002 kgf-m/cm		

Waterplane Values

Waterplane Area, Awp	0.013 m ²		
LCF	7.242 cm	FF/Lwl 0.405	AF/Lwl 0.595
TCF	0.000 cm	TCF / Lwl	0.000
Weight To Immerse	0.135 kgf/cm		

Sectional Parameters

Ax	0.001 m ²		
Ax Location	4.907 cm	Ax Location / Lwl	0.296

Hull Form Coefficients

Cb	0.519	Cx	0.811
Cp	0.639	Cwp	0.681
Cvp	0.762	Cws	2.703

Static Stability Parameters

Default Project

Cross Curves Of Stability

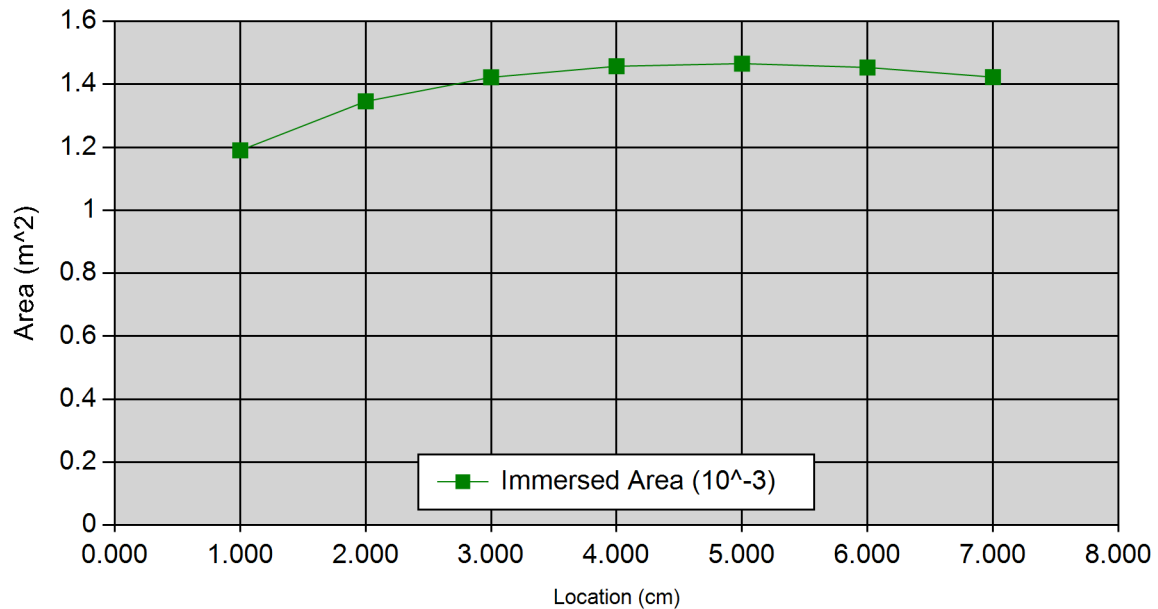
Default Company

Report Time: 27 May 2022, 00:14:36

Model Name: C:\Users\User\Desktop\NTU\sophomore2\Naval\shitship.3dm



I(transverse)	0.000 m^4	I(longitudinal)	0.000 m^4
BMt	3.131 cm	BMI	16.227 cm
GMt	4.253 cm	GMI	17.349 cm
Mt	2.253 cm	MI	15.349 cm

Station Data

Location (cm)	Immersed Area (m^2)	Immersed Girth (cm)
1.000	0.001	9.323
2.000	0.001	10.090
3.000	0.001	10.503
4.000	0.001	10.695
5.000	0.001	10.728
6.000	0.001	10.645
7.000	0.001	10.469

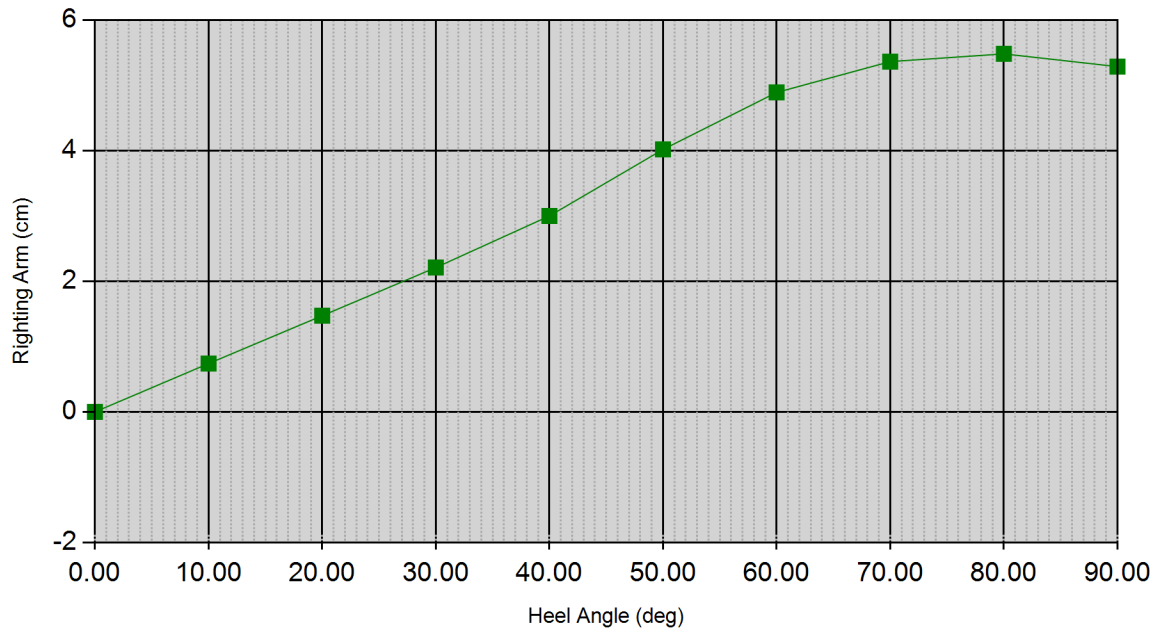
Default Project

Cross Curves Of Stability

Default Company

Report Time: 27 May 2022, 00:14:36

Model Name: C:\Users\User\Desktop\NTU\sophomore2\Naval\shitship.3dm

**Stability Curve**

Heel(deg)	Trim(deg)	Righting Arm (cm)	Righting Moment (kgf-m)
0.000	0.000	0.000	0.00
10.000	0.080	0.741	0.00
20.000	0.344	1.474	0.00
30.000	0.819	2.211	0.00
40.000	1.444	3.002	0.01
50.000	2.102	4.021	0.01
60.000	2.580	4.895	0.01
70.000	2.626	5.367	0.01
80.000	2.289	5.485	0.01
90.000	1.696	5.290	0.01

Default Project

Cross Curves Of Stability

Default Company

Report Time: 27 May 2022, 00:14:36

Model Name: C:\Users\User\Desktop\NTU\sophomore2\Naval\shitship.3dm



Condition Name=Condition 4, Model Sinkage=2.50, Model Trim=0.00, Model Heel=0.00

General Info

Analysis Type	FreeFloatEquilibrium	Up Direction = Positive_Z
		Fwd Direction = Negative_X

Surface Meshing Parameters

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

Load Condition Parameters

Model Sinkage	2.500 cm
Model Trim	0.000 deg
Model Heel	0.000 deg
VCG	0 cm
Fluid Type	Seawater
Fluid Density	1025.900 kg/m ³
Mirror Geometry	False

Resultant Model Attitude

Heel Angle	0.000 deg	Sinkage	2.500 cm
Trim Angle	0.000 deg		

Overall Dimensions

Length Overall, LOA	29.000 cm	Loa / Boa	2.219
Beam Overall, Boa	13.072 cm	Boa / D	1.745
Depth Overall, D	7.490 cm		

Default Project

Cross Curves Of Stability

Default Company

Report Time: 27 May 2022, 00:14:36

Model Name: C:\Users\User\Desktop\NTU\sophomore2\Naval\shitship.3dm

**Waterline Dimensions**

Waterline Length, Lwl	21.985 cm	Lwl / Bwl	2.302
Waterline Beam, Bwl	9.549 cm	Bwl / T	3.820
Navigational Draft, T	2.500 cm	D / T	2.996

Volumetric Values

Displacement Weight	0.276 kgf	Displ-Length Ratio	722.889
Volume	0.000 m ³		
LCB	7.266 cm	FB/Lwl 0.405	AB/Lwl 0.595
TCB	0.000 cm	TCB / Bwl	0.000
VCB	1.410 cm		
Wetted Surface Area	0.020 m ²		
Moment To Trim	0.002 kgf-m/cm		

Waterplane Values

Waterplane Area, Awp	0.014 m ²		
LCF	7.270 cm	FF/Lwl 0.405	AF/Lwl 0.595
TCF	0.000 cm	TCF / Lwl	0.000
Weight To Immerse	0.146 kgf/cm		

Sectional Parameters

Ax	0.002 m ²		
Ax Location	4.849 cm	Ax Location / Lwl	0.295

Hull Form Coefficients

Cb	0.512	Cx	0.809
Cp	0.633	Cwp	0.676
Cvp	0.757	Cws	2.656

Static Stability Parameters

Default Project

Cross Curves Of Stability

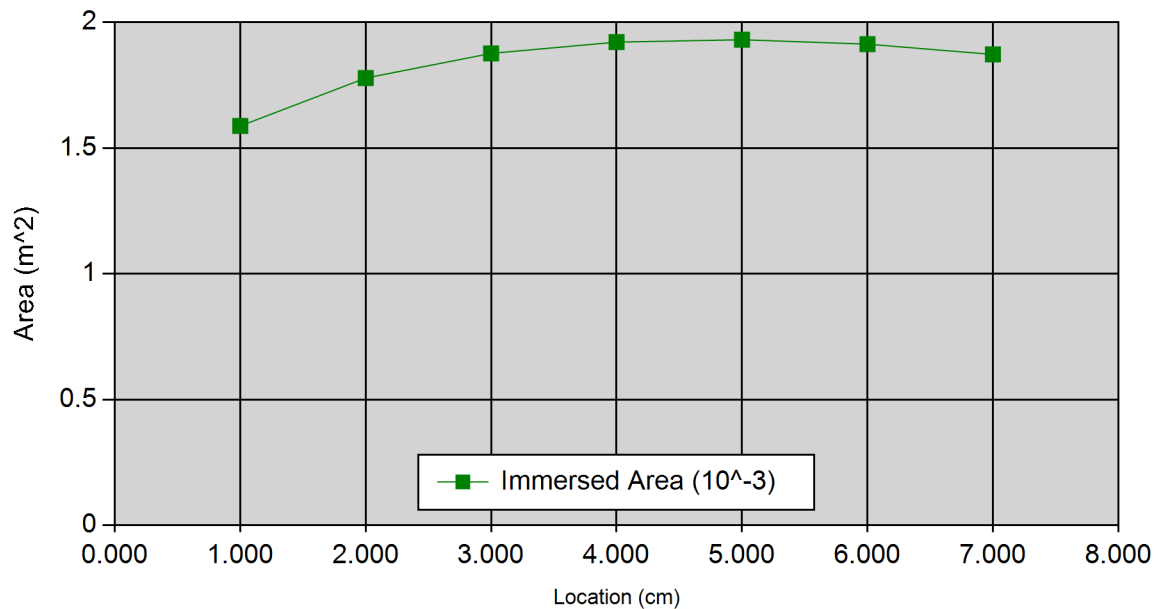
Default Company

Report Time: 27 May 2022, 00:14:36

Model Name: C:\Users\User\Desktop\NTU\sophomore2\Naval\shitship.3dm



I(transverse)	0.000 m ⁴	I(longitudinal)	0.000 m ⁴
BMt	2.778 cm	BMI	13.787 cm
GMt	4.188 cm	GMI	15.197 cm
Mt	1.688 cm	MI	12.697 cm

Station Data

Location (cm)	Immersed Area (m ²)	Immersed Girth (cm)
1.000	0.002	10.413
2.000	0.002	11.169
3.000	0.002	11.600
4.000	0.002	11.814
5.000	0.002	11.856
6.000	0.002	11.770
7.000	0.002	11.584

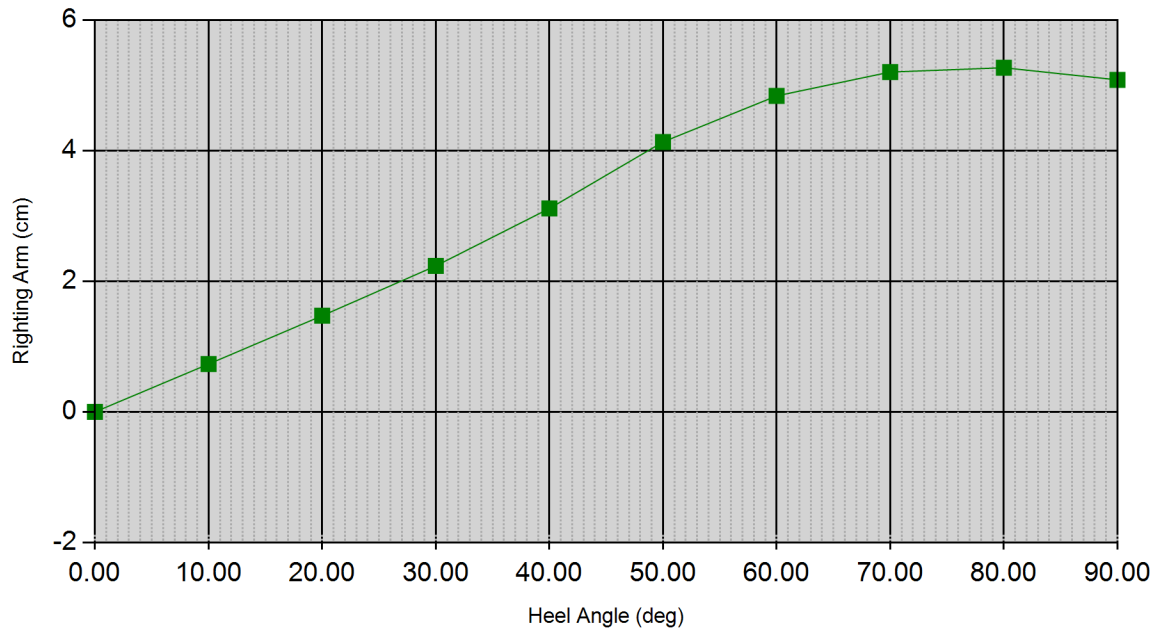
Default Project

Cross Curves Of Stability

Default Company

Report Time: 27 May 2022, 00:14:36

Model Name: C:\Users\User\Desktop\NTU\sophomore2\Naval\shitship.3dm

**Stability Curve**

Heel(deg)	Trim(deg)	Righting Arm (cm)	Righting Moment (kgf-m)
0.000	0.000	0.000	0.00
10.000	0.064	0.733	0.00
20.000	0.269	1.473	0.00
30.000	0.602	2.236	0.01
40.000	0.984	3.116	0.01
50.000	1.475	4.136	0.01
60.000	1.864	4.841	0.01
70.000	1.985	5.207	0.01
80.000	1.752	5.273	0.01
90.000	1.218	5.087	0.01

Default Project

Cross Curves Of Stability

Default Company

Report Time: 27 May 2022, 00:14:36

Model Name: C:\Users\User\Desktop\NTU\sophomore2\Naval\shitship.3dm



Condition Name=Condition 5, Model Sinkage=3.00, Model Trim=0.00, Model Heel=0.00

General Info

Analysis Type	FreeFloatEquilibrium	Up Direction = Positive_Z
		Fwd Direction = Negative_X

Surface Meshing Parameters

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

Load Condition Parameters

Model Sinkage	3.000 cm
Model Trim	0.000 deg
Model Heel	0.000 deg
VCG	0 cm
Fluid Type	Seawater
Fluid Density	1025.900 kg/m ³
Mirror Geometry	False

Resultant Model Attitude

Heel Angle	0.000 deg	Sinkage	3.000 cm
Trim Angle	0.000 deg		

Overall Dimensions

Length Overall, LOA	29.000 cm	Loa / Boa	2.219
Beam Overall, Boa	13.072 cm	Boa / D	1.745
Depth Overall, D	7.490 cm		

Default Project

Cross Curves Of Stability

Default Company

Report Time: 27 May 2022, 00:14:36

Model Name: C:\Users\User\Desktop\NTU\sophomore2\Naval\shitship.3dm

**Waterline Dimensions**

Waterline Length, Lwl	22.594 cm	Lwl / Bwl	2.263
Waterline Beam, Bwl	9.985 cm	Bwl / T	3.328
Navigational Draft, T	3.000 cm	D / T	2.497

Volumetric Values

Displacement Weight	0.351 kgf	Displ-Length Ratio	847.980
Volume	0.000 m ³		
LCB	7.270 cm	FB/Lwl 0.404	AB/Lwl 0.596
TCB	0.000 cm	TCB / Bwl	0.000
VCB	1.698 cm		
Wetted Surface Area	0.023 m ²		
Moment To Trim	0.002 kgf-m/cm		

Waterplane Values

Waterplane Area, Awp	0.015 m ²		
LCF	7.307 cm	FF/Lwl 0.405	AF/Lwl 0.595
TCF	0.000 cm	TCF / Lwl	0.000
Weight To Immerse	0.156 kgf/cm		

Sectional Parameters

Ax	0.002 m ²		
Ax Location	4.843 cm	Ax Location / Lwl	0.296

Hull Form Coefficients

Cb	0.505	Cx	0.808
Cp	0.626	Cwp	0.673
Cvp	0.752	Cws	2.638

Static Stability Parameters

Default Project

Cross Curves Of Stability

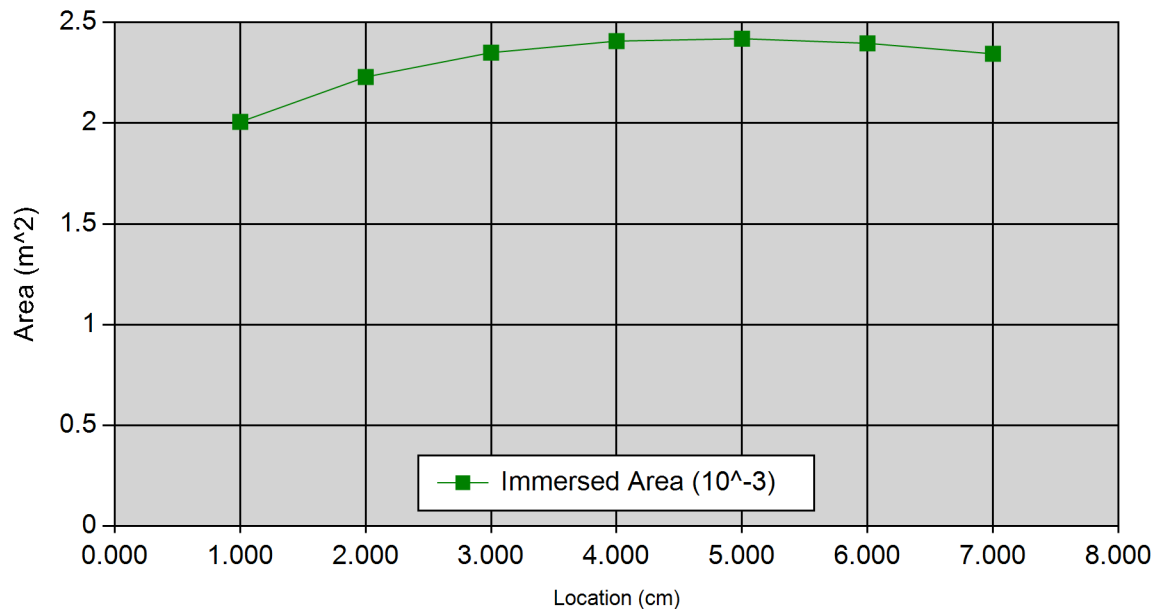
Default Company

Report Time: 27 May 2022, 00:14:36

Model Name: C:\Users\User\Desktop\NTU\sophomore2\Naval\shitship.3dm



I(transverse)	0.000 m^4	I(longitudinal)	0.000 m^4
BMt	2.529 cm	BMI	12.225 cm
GMt	4.227 cm	GMI	13.923 cm
Mt	1.227 cm	MI	10.923 cm

Station Data

Location (cm)	Immersed Area (m^2)	Immersed Girth (cm)
1.000	0.002	11.497
2.000	0.002	12.230
3.000	0.002	12.663
4.000	0.002	12.892
5.000	0.002	12.949
6.000	0.002	12.867
7.000	0.002	12.674

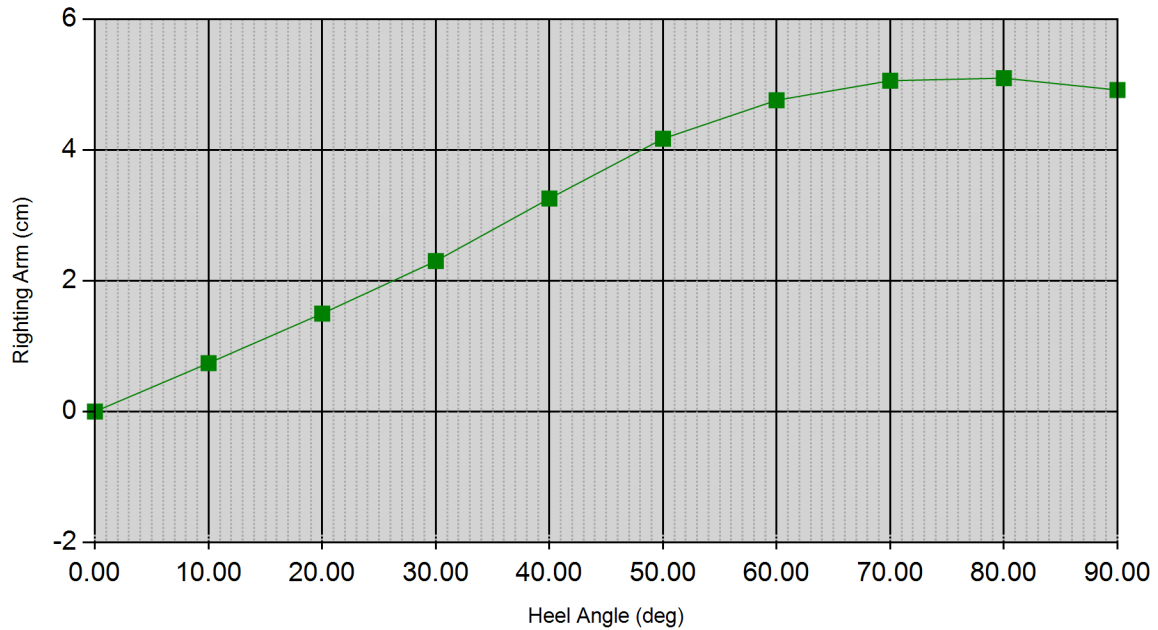
Default Project

Cross Curves Of Stability

Default Company

Report Time: 27 May 2022, 00:14:36

Model Name: C:\Users\User\Desktop\NTU\sophomore2\Naval\shitship.3dm

**Stability Curve**

Heel(deg)	Trim(deg)	Righting Arm (cm)	Righting Moment (kgf-m)
0.000	0.000	0.000	0.00
10.000	0.051	0.741	0.00
20.000	0.192	1.499	0.01
30.000	0.371	2.302	0.01
40.000	0.625	3.260	0.01
50.000	0.899	4.175	0.01
60.000	1.125	4.763	0.02
70.000	1.239	5.062	0.02
80.000	1.068	5.101	0.02
90.000	0.605	4.919	0.02

Default Project

Cross Curves Of Stability

Default Company

Report Time: 27 May 2022, 00:14:36

Model Name: C:\Users\User\Desktop\NTU\sophomore2\Naval\shitship.3dm



Condition Name=Condition 6, Model Sinkage=3.50, Model Trim=0.00, Model Heel=0.00

General Info

Analysis Type	FreeFloatEquilibrium	Up Direction = Positive_Z
		Fwd Direction = Negative_X

Surface Meshing Parameters

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

Load Condition Parameters

Model Sinkage	3.500 cm
Model Trim	0.000 deg
Model Heel	0.000 deg
VCG	0 cm
Fluid Type	Seawater
Fluid Density	1025.900 kg/m ³
Mirror Geometry	False

Resultant Model Attitude

Heel Angle	0.000 deg	Sinkage	3.500 cm
Trim Angle	0.000 deg		

Overall Dimensions

Length Overall, LOA	29.000 cm	Loa / Boa	2.219
Beam Overall, Boa	13.072 cm	Boa / D	1.745
Depth Overall, D	7.490 cm		

Default Project

Cross Curves Of Stability

Default Company

Report Time: 27 May 2022, 00:14:36

Model Name: C:\Users\User\Desktop\NTU\sophomore2\Naval\shitship.3dm

**Waterline Dimensions**

Waterline Length, Lwl	23.225 cm	Lwl / Bwl	2.243
Waterline Beam, Bwl	10.355 cm	Bwl / T	2.959
Navigational Draft, T	3.500 cm	D / T	2.140

Volumetric Values

Displacement Weight	0.431 kgf	Displ-Length Ratio	959.715
Volume	0.000 m ³		
LCB	7.282 cm	FB/Lwl 0.404	AB/Lwl 0.596
TCB	0.000 cm	TCB / Bwl	0.000
VCB	1.988 cm		
Wetted Surface Area	0.026 m ²		
Moment To Trim	0.002 kgf-m/cm		

Waterplane Values

Waterplane Area, Awp	0.016 m ²		
LCF	7.362 cm	FF/Lwl 0.407	AF/Lwl 0.593
TCF	0.000 cm	TCF / Lwl	0.000
Weight To Immerse	0.166 kgf/cm		

Sectional Parameters

Ax	0.003 m ²		
Ax Location	4.876 cm	Ax Location / Lwl	0.300

Hull Form Coefficients

Cb	0.500	Cx	0.808
Cp	0.618	Cwp	0.674
Cvp	0.741	Cws	2.638

Static Stability Parameters

Default Project

Cross Curves Of Stability

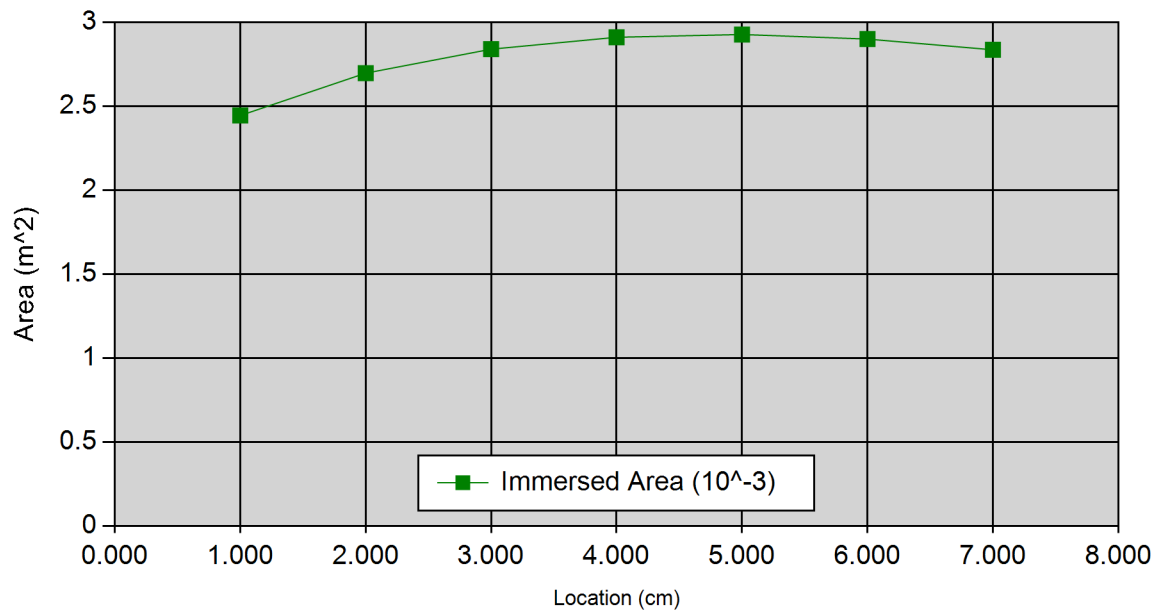
Default Company

Report Time: 27 May 2022, 00:14:36

Model Name: C:\Users\User\Desktop\NTU\sophomore2\Naval\shitship.3dm



I(transverse)	0.000 m^4	I(longitudinal)	0.000 m^4
BMt	2.366 cm	BMI	11.268 cm
GMt	4.354 cm	GMI	13.256 cm
Mt	0.854 cm	MI	9.756 cm

Station Data

Location (cm)	Immersed Area (m^2)	Immersed Girth (cm)
1.000	0.002	12.582
2.000	0.003	13.292
3.000	0.003	13.713
4.000	0.003	13.946
5.000	0.003	14.016
6.000	0.003	13.943
7.000	0.003	13.752

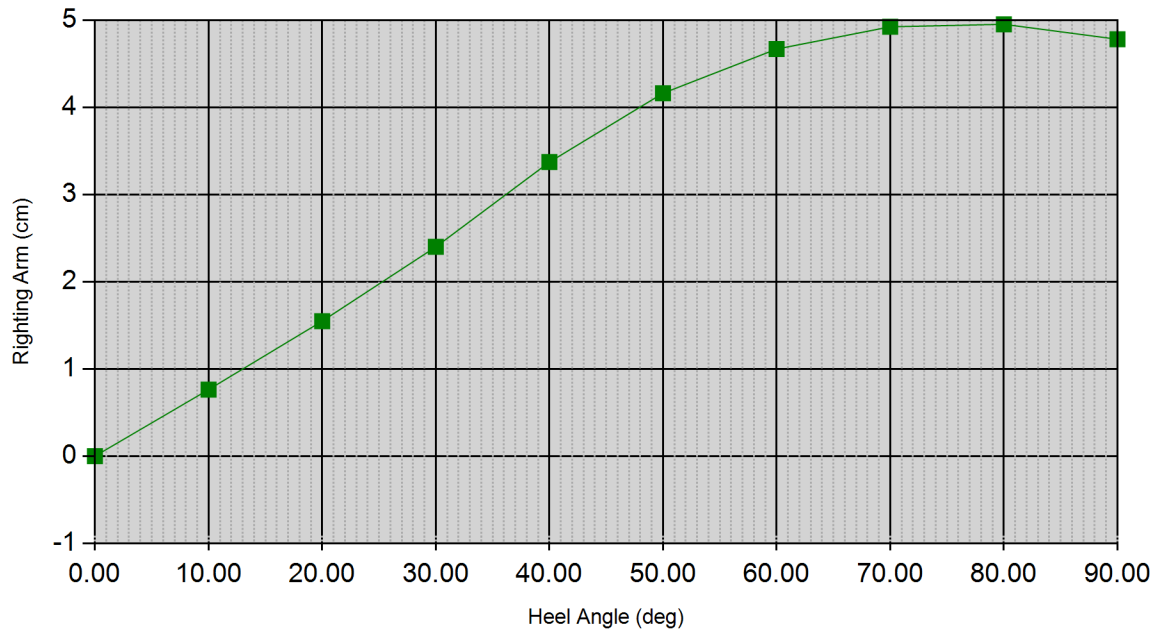
Default Project

Cross Curves Of Stability

Default Company

Report Time: 27 May 2022, 00:14:36

Model Name: C:\Users\User\Desktop\NTU\sophomore2\Naval\shitship.3dm

**Stability Curve**

Heel(deg)	Trim(deg)	Righting Arm (cm)	Righting Moment (kgf-m)
0.000	0.000	0.000	0.00
10.000	0.031	0.763	0.00
20.000	0.086	1.549	0.01
30.000	0.142	2.401	0.01
40.000	0.292	3.374	0.01
50.000	0.335	4.165	0.02
60.000	0.358	4.671	0.02
70.000	0.387	4.927	0.02
80.000	0.243	4.956	0.02
90.000	-0.165	4.784	0.02

Default Project

Cross Curves Of Stability

Default Company

Report Time: 27 May 2022, 00:14:36

Model Name: C:\Users\User\Desktop\NTU\sophomore2\Naval\shitship.3dm



Condition Name=Condition 7,Model Sinkage=4.00,Model Trim=0.00,Model Heel=0.00

General Info

Analysis Type	FreeFloatEquilibrium	Up Direction = Positive_Z
		Fwd Direction = Negative_X

Surface Meshing Parameters

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

Load Condition Parameters

Model Sinkage	4.000 cm
Model Trim	0.000 deg
Model Heel	0.000 deg
VCG	0 cm
Fluid Type	Seawater
Fluid Density	1025.900 kg/m ³
Mirror Geometry	False

Resultant Model Attitude

Heel Angle	0.000 deg	Sinkage	4.000 cm
Trim Angle	0.000 deg		

Overall Dimensions

Length Overall, LOA	29.000 cm	Loa / Boa	2.219
Beam Overall, Boa	13.072 cm	Boa / D	1.745
Depth Overall, D	7.490 cm		

Default Project

Cross Curves Of Stability

Default Company

Report Time: 27 May 2022, 00:14:36

Model Name: C:\Users\User\Desktop\NTU\sophomore2\Naval\shitship.3dm

**Waterline Dimensions**

Waterline Length, Lwl	23.921 cm	Lwl / Bwl	2.247
Waterline Beam, Bwl	10.646 cm	Bwl / T	2.661
Navigational Draft, T	4.000 cm	D / T	1.873

Volumetric Values

Displacement Weight	0.518 kgf	Displ-Length Ratio	1054.118
Volume	0.001 m ³		
LCB	7.303 cm	FB/Lwl 0.405	AB/Lwl 0.595
TCB	0.000 cm	TCB / Bwl	0.000
VCB	2.282 cm		
Wetted Surface Area	0.029 m ²		
Moment To Trim	0.003 kgf-m/cm		

Waterplane Values

Waterplane Area, Awp	0.017 m ²		
LCF	7.468 cm	FF/Lwl 0.412	AF/Lwl 0.588
TCF	0.000 cm	TCF / Lwl	0.000
Weight To Immerse	0.179 kgf/cm		

Sectional Parameters

Ax	0.003 m ²		
Ax Location	4.928 cm	Ax Location / Lwl	0.306

Hull Form Coefficients

Cb	0.495	Cx	0.811
Cp	0.611	Cwp	0.687
Cvp	0.722	Cws	2.649

Static Stability Parameters

Default Project

Cross Curves Of Stability

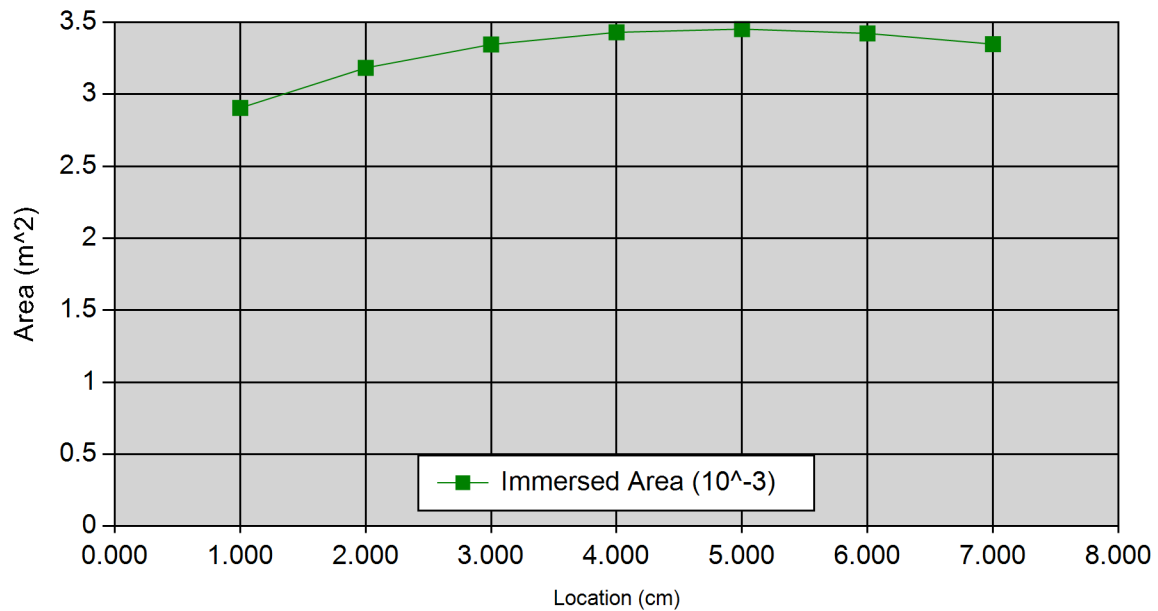
Default Company

Report Time: 27 May 2022, 00:14:36

Model Name: C:\Users\User\Desktop\NTU\sophomore2\Naval\shitship.3dm



I(transverse)	0.000 m^4	I(longitudinal)	0.000 m^4
BMt	2.278 cm	BMI	10.863 cm
GMt	4.560 cm	GMI	13.146 cm
Mt	0.560 cm	MI	9.146 cm

Station Data

Location (cm)	Immersed Area (m^2)	Immersed Girth (cm)
1.000	0.003	13.661
2.000	0.003	14.350
3.000	0.003	14.755
4.000	0.003	14.982
5.000	0.003	15.056
6.000	0.003	14.994
7.000	0.003	14.816

Default Project

Cross Curves Of Stability

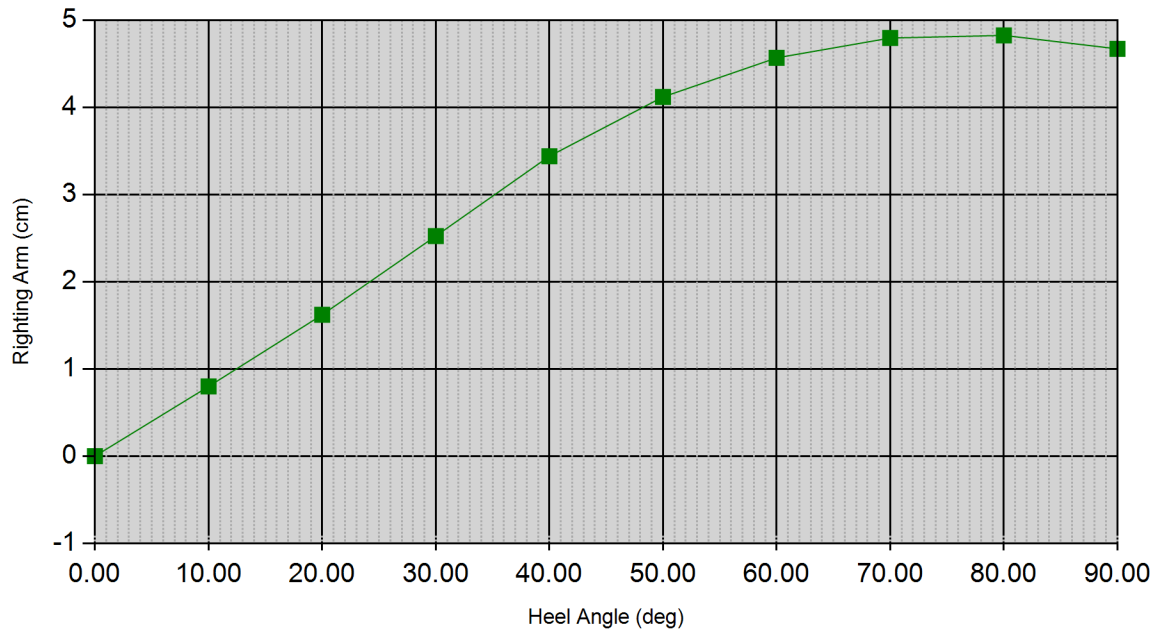
Default Company

Report Time: 27 May 2022, 00:14:36

Model Name: C:\Users\User\Desktop\NTU\sophomore2\Naval\shitship.3dm



Stability Curve



Heel(deg)	Trim(deg)	Righting Arm (cm)	Righting Moment (kgf-m)
0.000	0.000	0.000	0.00
10.000	-0.007	0.799	0.00
20.000	-0.043	1.622	0.01
30.000	-0.046	2.526	0.01
40.000	-0.047	3.441	0.02
50.000	-0.220	4.122	0.02
60.000	-0.417	4.570	0.02
70.000	-0.551	4.798	0.02
80.000	-0.714	4.828	0.02
90.000	-1.089	4.674	0.02

Default Project

Cross Curves Of Stability

Default Company

Report Time: 27 May 2022, 00:14:36

Model Name: C:\Users\User\Desktop\NTU\sophomore2\Naval\shitship.3dm



Condition Name=Condition 8, Model Sinkage=4.50, Model Trim=0.00, Model Heel=0.00

General Info

Analysis Type	FreeFloatEquilibrium	Up Direction = Positive_Z
		Fwd Direction = Negative_X

Surface Meshing Parameters

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

Load Condition Parameters

Model Sinkage	4.500 cm
Model Trim	0.000 deg
Model Heel	0.000 deg
VCG	0 cm
Fluid Type	Seawater
Fluid Density	1025.900 kg/m ³
Mirror Geometry	False

Resultant Model Attitude

Heel Angle	0.000 deg	Sinkage	4.500 cm
Trim Angle	0.000 deg		

Overall Dimensions

Length Overall, LOA	29.000 cm	Loa / Boa	2.219
Beam Overall, Boa	13.072 cm	Boa / D	1.745
Depth Overall, D	7.490 cm		

Default Project

Cross Curves Of Stability

Default Company

Report Time: 27 May 2022, 00:14:36

Model Name: C:\Users\User\Desktop\NTU\sophomore2\Naval\shitship.3dm

**Waterline Dimensions**

Waterline Length, Lwl	24.719 cm	Lwl / Bwl	2.282
Waterline Beam, Bwl	10.834 cm	Bwl / T	2.408
Navigational Draft, T	4.500 cm	D / T	1.664

Volumetric Values

Displacement Weight	0.611 kgf	Displ-Length Ratio	1128.139
Volume	0.001 m ³		
LCB	7.342 cm	FB/Lwl 0.410	AB/Lwl 0.590
TCB	0.000 cm	TCB / Bwl	0.000
VCB	2.584 cm		
Wetted Surface Area	0.032 m ²		
Moment To Trim	0.003 kgf-m/cm		

Waterplane Values

Waterplane Area, Awp	0.019 m ²		
LCF	7.664 cm	FF/Lwl 0.423	AF/Lwl 0.577
TCF	0.000 cm	TCF / Lwl	0.000
Weight To Immerse	0.196 kgf/cm		

Sectional Parameters

Ax	0.004 m ²		
Ax Location	4.978 cm	Ax Location / Lwl	0.314

Hull Form Coefficients

Cb	0.495	Cx	0.818
Cp	0.604	Cwp	0.713
Cvp	0.694	Cws	2.672

Static Stability Parameters

Default Project

Cross Curves Of Stability

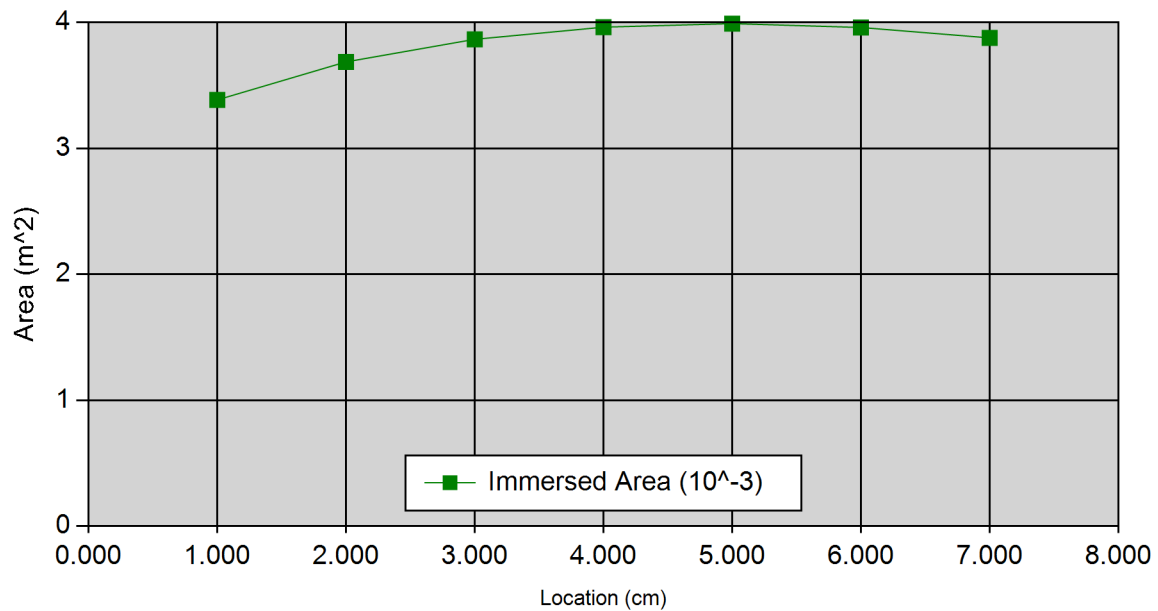
Default Company

Report Time: 27 May 2022, 00:14:36

Model Name: C:\Users\User\Desktop\NTU\sophomore2\Naval\shitship.3dm



I(transverse)	0.000 m^4	I(longitudinal)	0.000 m^4
BMt	2.249 cm	BMI	11.037 cm
GMt	4.833 cm	GMI	13.621 cm
Mt	0.333 cm	MI	9.121 cm

Station Data

Location (cm)	Immersed Area (m^2)	Immersed Girth (cm)
1.000	0.003	14.723
2.000	0.004	15.393
3.000	0.004	15.784
4.000	0.004	16.001
5.000	0.004	16.072
6.000	0.004	16.017
7.000	0.004	15.854

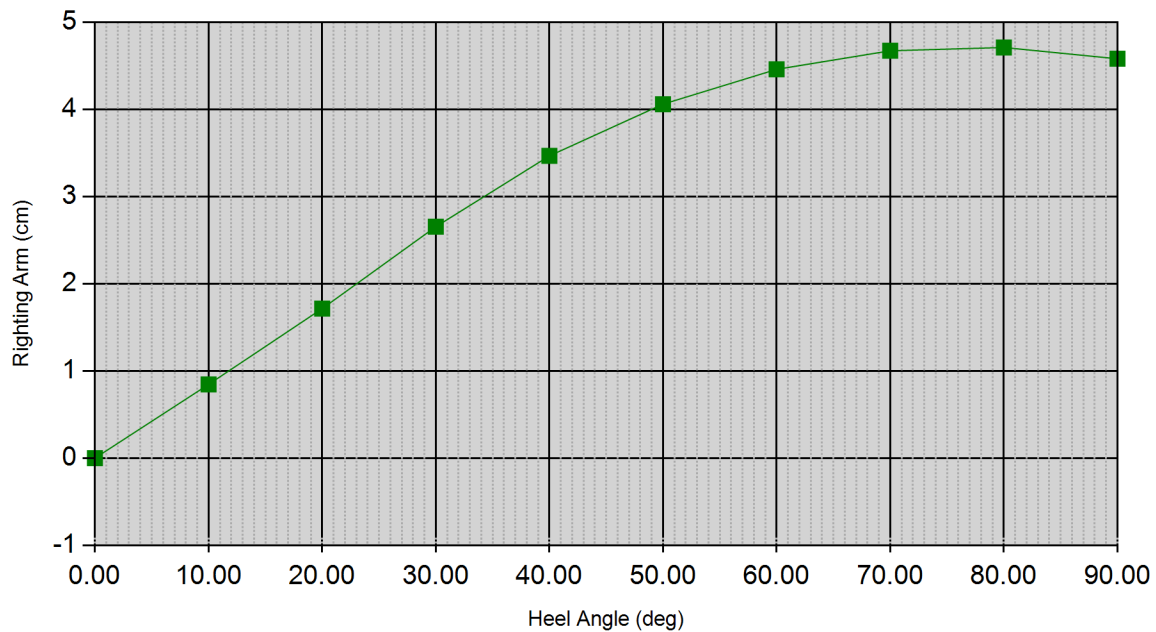
Default Project

Cross Curves Of Stability

Default Company

Report Time: 27 May 2022, 00:14:36

Model Name: C:\Users\User\Desktop\NTU\sophomore2\Naval\shitship.3dm

**Stability Curve**

Heel(deg)	Trim(deg)	Righting Arm (cm)	Righting Moment (kgf-m)
0.000	0.000	0.000	0.00
10.000	-0.048	0.846	0.01
20.000	-0.141	1.716	0.01
30.000	-0.178	2.655	0.02
40.000	-0.383	3.468	0.02
50.000	-0.746	4.062	0.02
60.000	-1.148	4.462	0.03
70.000	-1.495	4.675	0.03
80.000	-1.769	4.712	0.03
90.000	-2.137	4.583	0.03