



ShipWeight™

What's new in ShipWeight 12.0

Contents

- System Customization.....3**
- Deleted Items History4**
- Enhanced Compare Dialog5**
- Maximize option for Estimation Setting window6**
- Renamed menu item in Estimation window.....7**
- Dynamic labels for estimate type in toolbar combobox8**
- Graph Print options in Estimation window9**
- User defined estimation method for TCG10**
- Import hist. db. option in Reference Projects window.....11**
- Improved Code Summary Function12**

System Customization

System modification according to the customer's individual requirements:

The image shows two overlapping software windows. The top window, titled "Edit Project Type", displays a tree view of project types on the left and a table of project details on the right. The bottom window, titled "System Database", displays a table of system parameters.

Edit Project Type

Project Type	ID	Name	Parent
1407 LSM Medium Landing Ship	1202	SSN Submarine - nuclear powe...	12
1408 LST Tank Landing Ship	1203	SSBN Ballistic Missile Submarin...	12
1409 LCC Amph. Command Ship	1301	PG Patrol Combatant	13
15 Combat Logistics Type	1401	LHA Amph. Assault Ship - Gen...	14
1501 AE Ammunition Ship	1402	LHD Amph. Assault Ship - Multi...	14
1502 AFS Combat Store Ship	1403	LPD Amph. Transport Dock	14
1503 AO Oiler	1404	LPH Amph. Assault Ship (Helico...	14
1504 AOE Fast Combat Support Ship	1405	LKA Amph. Cargo Ship	14

System Database

ID	Description	DBPrefix	Active	TopWgtGrp	TempWgtGrp	XParam	YParam	ZParam
ShipWeight	ShipWeight break down system	SW00	<input checked="" type="checkbox"/>	DISP	Temp	IPE	bm	hDU
SWBS	SWBS break down system	SW04	<input checked="" type="checkbox"/>	DISP	Temp	IPE	bm	hDU
TestWeight	ShipWeight break down system	SW01	<input checked="" type="checkbox"/>	DISP	Temp	IPE	bm	hDU

Deleted Items History

Right click in Items dialog, select “Deleted Items...”

The screenshot shows a table with columns: WgtGrp, ItemNo, Description, RegUser, RegDate, NoOf [-], and Factor [-]. The table contains multiple rows of item data. A context menu is overlaid on the table, listing various actions such as Undo, Cut Item(s), Copy Heading, Copy Item(s), Paste Item(s), Delete Item(s), Merge Items, Go To..., Item History..., Deleted Items..., Select All, Display Options..., Filter, Sort, and Hide Column... The 'Deleted Items...' option is highlighted with a red rectangular box.

The Project Log Database window will open:

The screenshot shows the 'Project Log Database' window. It features a table with the following columns: ProjectID, WgtGrp, ItemNo, Description, RegUser, RegDate, NoOf, Factor, Length, Width, UnitWeight, Weight, VCG, LCG, TCG, and VCG_min. The table lists several project entries, including 'P-2500 Rev-3' and 'FREEZE PRO...'. The window also includes a filter field with the text 'Filter: WgtGrp Like 'A00' AND Changes = 'Delete'' and a 'Close' button.

Enhanced Compare Dialog

Compare
— □ ×

Code type: Wgt.grps.

List

Defined

All

Input

Show CoG

VCG

LCG

TCG

Deviation

Show

Absolute

Relative

CoG Impact

Show

Absolute

Relative

View

Grid

Tree

Items

Project	Label	Label
RAA-PC\SW - SW04_ProjectDB(P-2500 Rev-1)	01	238,238,238

Code & description	Weight [t]	Weight [t]	Dev.[t]	VCG [ft]	VCG [ft]	Dev.[ft]	Impact [ft]	LCG [ft]	LCG [ft]	Dev.[ft]	Impact [ft]
	P-2500 Re...	01		P-2500 Re...	01			P-2500 Re...	01		
DISP Total Displacement	3 477.174	3 369.289	3 477.174	43.167	14.199	28.968	28.968	351.717	140.594	211.123	211.123
LOAD Loads	976.551	984.109	976.551	23.847	7.976	15.871	4.624	342.033	136.602	205.431	59.685
A MINIMUM COND	14.699	18.374	14.699	70.414	23.471	46.943	0.195	562.100	224.840	337.260	1.381
A00 LOADS (MINIMUM ...	14.699	18.374	14.699	70.414	23.471	46.943	0.195	562.100	224.840	337.260	1.381
00 10 CRAFT MASTER	0.264	0.330	-0.066	39.000	13.000	26.000	0.002	170.000	68.000	102.000	0.009
00 10_01 CREW LIVIN...	1.656	2.070	-0.414	30.500	10.167	20.333	0.010	174.000	69.600	104.400	0.060
00 15 DRY PROVISIONS	3.441	4.301	-0.860	21.500	7.167	14.333	0.016	172.000	68.800	103.200	0.124
00 20 CPO	0.528	0.660	-0.132	30.500	10.167	20.333	0.003	172.000	68.800	103.200	0.019
00 20_01 TRANSIENT	2.208	2.760	-0.552	21.500	7.167	14.333	0.011	173.000	69.200	103.800	0.080
00 20_02 CHILL PROV...	1.774	2.218	-0.444	21.500	7.167	14.333	0.008	174.000	69.600	104.400	0.064
00 30 CREW LIVING S...	1.104	1.380	-0.276	21.500	7.167	14.333	0.005	153.000	61.200	91.800	0.037
00 30_01 FREEZE PR...	1.201	1.501	-0.300	21.500	7.167	14.333	0.006	174.000	69.600	104.400	0.044
00 40 CREW LIVING S...	1.656	2.070	-0.414	12.500	4.167	8.333	0.005	172.000	68.800	103.200	0.060
00 50 CREW LIVING S...	1.104	1.380	-0.276	12.500	4.167	8.333	0.004	172.000	68.800	103.200	0.040
C CAPACITY	546.939	546.939	546.939	22.300	7.433	14.867	2.413	352.138	140.855	211.283	34.298
C10 SHIPS FORCE, AMP...	11.486	11.486	11.486	69.429	23.143	46.286	0.158	558.687	223.475	335.212	1.143
C12 SHIPS NONCOMMI...	1.299	1.299	1.299	107.037	35.679	71.358	0.028	562.664	225.066	337.598	0.130
00 10 CRAFT MASTER	0.330	0.330	0.000	39.000	13.000	26.000	0.003	170.000	68.000	102.000	0.010
00 20 CPO	0.990	0.990	0.000	30.500	10.167	20.333	0.006	172.000	68.800	103.200	0.030
C13 SHIPS ENLISTED M...	10.187	10.187	10.187	64.633	21.544	43.089	0.130	558.180	223.272	334.908	1.013
00 10 CREW SPACE ...	2.070	2.070	0.000	30.500	10.167	20.333	0.012	174.000	69.600	104.400	0.064
00 20 CREW SPACE ...	1.380	1.380	0.000	21.500	7.167	14.333	0.006	153.000	61.200	91.800	0.038
00 30 CREW SPACE ...	2.070	2.070	0.000	12.500	4.167	8.333	0.005	172.000	68.800	103.200	0.063
00 40 CREW SPACE ...	2.070	2.070	0.000	12.500	4.167	8.333	0.005	172.000	68.800	103.200	0.063

Print
Close

Maximize option for Estimation Setting window

The screenshot shows the 'Estimation' window with the following components:

Window Title Bar: Estimation [Maximize] [Close]

Menu Bar: View Graph Wgt.grp. Std.dev. Estimate Method Setting Window

Toolbar: E - Weight [Print] [List] [Refresh] [Copy] [Paste] [Left Arrow] [Right Arrow] [Home] [End]

Graph: Scatter plot of Equipment weight [t] vs Lpp. Regression equation: $k = W/Lpp * B$, $y_0 = 0.569 + 0.0025 * x$, $r^2 = 0.0924$.

Parameter Table:

Parameter	Value	Std
Length betw. perp. [m]	70.00	
Ship breadth [m]	18.00	

Coefficient type	Coeff.v...	Std.dev...	Value	Std
<input checked="" type="radio"/> Subjective	1.162	0.00	1 464	
<input type="radio"/> Regression	0.740	9.44	933	
<input type="radio"/> Default	0.791	11.97	997	
<input type="radio"/> Sister project	0.000	0.00	0	
<input type="radio"/> Adj.sister project	0.000	0.00	0	
<input type="radio"/> Average	0.737	9.96	928	
W = k*Lpp*B	Coeff.v...	Std.dev...	Value	Std
Weight[t]	1.162		1 464	

Comparison parameters table:

Comparison parameters	Filter	DB Space - BAS Anchor
Build Year	<input type="checkbox"/> 1900-2017	2007
Project Type	<input checked="" type="checkbox"/> Offshore Vesse...	Anchor Handling Tug
1. B/D [-]	<input type="checkbox"/> 0.000-1.000 0...	2.25
2. Volume holds over shiplength [m2]	<input type="checkbox"/> 0.000-1.000 0...	
3. Numb. decks, main-hull [-]	<input type="checkbox"/> 0-20	
4. Numb. holds, cargo area [-]	<input type="checkbox"/> 0-20	
5. Length betw. perp. [m]	<input type="checkbox"/> 0.00-450.00	70.00
6. Ship breadth [m]	<input type="checkbox"/> 0.00-100.00	18.00
Weight[t]		1 464

Renamed menu item in Estimation window

In the Estimation window, the menu item “Hide project data” in the graph has been renamed to “Deselect Project”:

The screenshot shows the 'Estimation' window with a graph on the left and a data table on the right. The graph displays a scatter plot of data points with a regression line. The equation of the line is $k = W/Lpp*B$, $y_0 = 0.569 + 0.0025*x$, and $r^2 = 0.0924$. The x-axis ranges from 49 to 70, and the y-axis ranges from 0.4 to 1.2. A context menu is open over the graph, listing various actions. The 'Deselect Project' option is highlighted with a red box.

Parameter	Value	Std
Length betw. perp. [m]	70.00	
Ship breadth [m]	18.00	

Coefficient type	Coeff.v...	Std.dev...	Value	Std
<input checked="" type="radio"/> Subjective	1.162	0.00	1 464	
<input type="radio"/> Regression	0.740	9.44	933	
<input type="radio"/> Default	0.791	11.97	997	

Comparison parameters	Value	Std
Build Year	1997	
Project Type	Anchor Handling T...	2.43
1. B/D [-]	0.00	
2. Volume holds over shiplength [m2]	0.00	
3. Numb. decks, main-hull [-]		
4. Numb. holds, cargo area [-]		
5. Length betw. perp. [m]	75.10	
6. Ship breadth [m]	18.00	22.10
Weight[t]	1 464	1 341

Dynamic labels for estimate type in toolbar combobox

In the listbox in toolbar for selecting estimate, the label name for weight and CoG has been changed from W, V, L, and T to Weight, VCG, LCG, and TCG.

The screenshot shows the 'Estimation' software window. A toolbar at the top contains a combobox menu currently displaying 'LW - Weight'. A dropdown menu is open, showing the following options: 'E - Weight', 'E4 - Weight', 'H5 - Weight', 'LW - Weight', and 'M1.1 - LCG'. The 'LW - Weight' option is highlighted. The main workspace is divided into three sections:

- Plot:** A scatter plot titled 'LW Lightship weight [t] (9 of 35 reference projects)'. The x-axis is labeled 'LBDu' and ranges from 5000 to 20000. The y-axis ranges from 0.3 to 0.48. A downward-sloping trend line is visible.
- Parameter Table:** A table on the right side of the plot area.

Parameter	Value	Std	
Length betw. perp. [m]	70.00		
Ship breadth [m]	18.00		
Depth upperm. cont. deck [m]	8.00		
Block-coefficient [-]	0.750		
Coefficient type			
<input checked="" type="radio"/> Subjective	0.548	2.83	
<input type="radio"/> Regression	0.387	4.01	
<input type="radio"/> Default	0.349	12.29	
<input type="radio"/> Sister project	0.000	0.00	
<input type="radio"/> Adj.sister project	0.000	0.00	
<input type="radio"/> Average	0.383	4.55	
W = k*Lpp*B*D*Cb^0.5			
Coeff.v...	Std.dev...	Value	Std
Weight[t]	0.548		4 782
- Comparison parameters:** A table at the bottom of the window.

Comparison parameters	Filter	DB Space - BAS Anchor
Build Year	<input type="checkbox"/> 1900-2014	2007
Project Type	<input checked="" type="checkbox"/> Offshore Vesse...	Anchor Handling Tug
1. Lpp/B [-]	<input type="checkbox"/> 0.000-1.000 0...	3.89
2. Maximum speed [knot]	<input type="checkbox"/> 0.0-100.0	15.0
3. Numb. decks, main-hull [-]	<input type="checkbox"/> 0-20	
4. Length betw. perp. [m]	<input checked="" type="checkbox"/> 60.00-80.00	70.00
5. Ship breadth [m]	<input type="checkbox"/> 0.00-100.00	18.00
6. Depth upperm. cont. deck [m]	<input type="checkbox"/> 0.00-100.00	8.00
7. Scantling draught [m]	<input type="checkbox"/> 0.00-30.00	6.50
8. Main-hull material	<input type="checkbox"/> All	Steel
9. Block-coefficient [-]	<input type="checkbox"/> 0.000-1.000	0.750
10. Double hull	<input type="checkbox"/> All	
Weight[t]		4 782

Graph Print options in Estimation window

In the Estimation window, in the Graph menu, the user has now two options for Print:

The screenshot shows the 'Estimation' window with the 'Graph' menu open. The 'Print' option is selected, and a sub-menu is displayed with 'Estimate' and 'Anonymous Estimate' options. A red box highlights these two options. The background shows a graph titled 'E Equipment weight [t] (12 of 19 reference projects)' with data points and regression lines. Below the graph is a table of project data and a comparison parameters table.

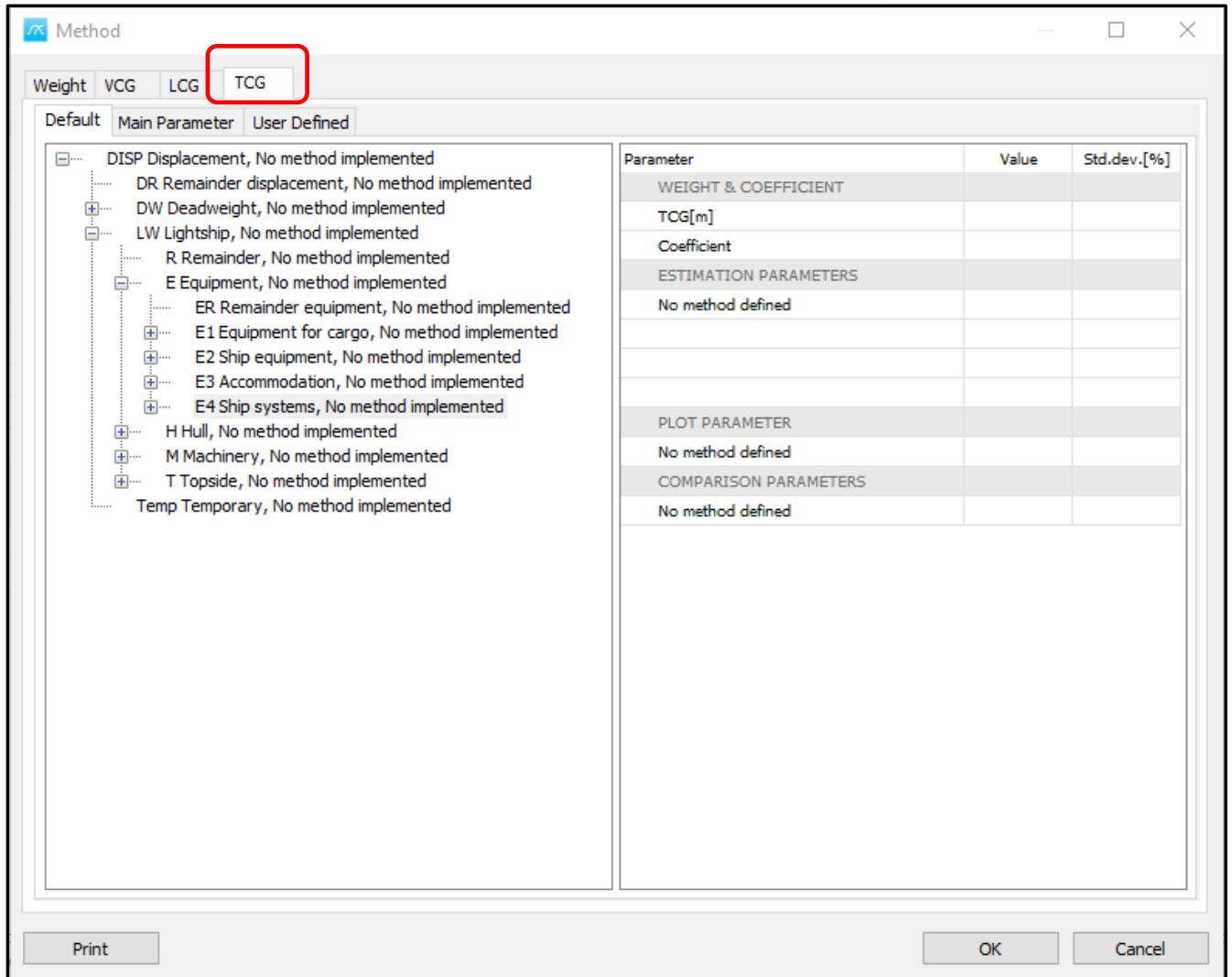
Parameter	Value	Std.dev...
Length betw. perp. [m]	70.00	0.00
Ship breadth [m]	18.00	0.00

Coefficient type	Coeff.v...	Std.dev...	Value	Std.de...
<input checked="" type="radio"/> Subjective	1.162	0.00	1 464	0.00
<input type="radio"/> Regression	0.740	9.44	933	9.44
<input type="radio"/> Default	0.791	11.97	997	11.97
<input type="radio"/> Sister project	0.000	0.00	0	0.00
<input type="radio"/> Adj.sister project	0.000	0.00	0	0.00
<input type="radio"/> Average	0.737	9.96	928	9.96
W = k*Lpp*B	Coeff.v...	Std.dev...	Value	Std.de...
Weight[t]	0.740		933	

Include	ID	Name	Type	Built	Length betw. perp.	Weight	Coefficient	B/D [-]	Volume
<input checked="" type="checkbox"/>	FA011	Bas Leader	Anchor Handling Tug	1997	67.30	964	0.758	2.28	
<input checked="" type="checkbox"/>	FA010	Bas Ruler	Anchor Handling Tug	1997	75.80	1 242	0.762	2.34	
<input checked="" type="checkbox"/>	FA008	Bas Straits	Anchor Handling Tug	1997	78.00	1 333	0.724	2.54	
<input checked="" type="checkbox"/>	FA009	Bas Gentle	Anchor Handling Tug	1997	63.80	778	0.739	1.99	
<input checked="" type="checkbox"/>	FA012	Bas King	Anchor Handling Tug	1997	69.80	1 056	0.772	2.28	
<input checked="" type="checkbox"/>	(1) FA006	Bas Super	Anchor Handling Tug	1997	75.10	1 341	0.808	2.43	
<input checked="" type="checkbox"/>	FA007	Bas Dire	Anchor Handling Tug	1997	60.70	510	0.528	2.24	
<input checked="" type="checkbox"/>	FA004	Bas Viking	Anchor Handling Tug	1997	82.70	1 529	0.740	2.66	
<input checked="" type="checkbox"/>	FA005	Bas Breaker	Anchor Handling Tug	1997	59.70	651	0.727	2.05	
<input checked="" type="checkbox"/>	FA002	Bas Stayer	Anchor Handling Tug	1997	66.10	872	0.742	2.14	
<input checked="" type="checkbox"/>	(2) FA003	Bas Spirit	Anchor Handling Tug	1997	71.40	1 148	0.781	2.34	

Comparison parameters	Filter	DB Space - BAS Anchor	(1) FA006 - Bas Su...	(2) FA003 - Bas Spirit
Build Year	<input type="checkbox"/> 1900-2017	2007	1997	1997
Project Type	<input checked="" type="checkbox"/> Offshore Vesse...	Anchor Handling Tug	Anchor Handling T...	Anchor Handling T...
1. B/D [-]	<input type="checkbox"/> 0.000-1.000 0...	2.25	2.43	2.34
2. Volume holds over shiplength [m2]	<input type="checkbox"/> 0.000-1.000 0...			
3. Numb. decks, main-hull [-]	<input type="checkbox"/> 0-20			
4. Numb. holds, cargo area [-]	<input type="checkbox"/> 0-20			
5. Length betw. perp. [m]	<input type="checkbox"/> 0.00-450.00	70.00	75.10	71.40
6. Ship breadth [m]	<input type="checkbox"/> 0.00-100.00	18.00	22.10	20.60
Weight[t]		933	1 341	1 148

User defined estimation method for TCG



Import hist. db. option in Reference Projects window

The screenshot shows the 'Reference Projects' window. It features a table with columns: Project ID, Project Name, Type ID, Type, Build Year, and Yard. The table lists various projects, including Tanker for Oil (DS_1 to DS_7), Anchor Handling Tug (FA001 to FA012), Research Ship (R1 to R9), and Salvage Ship and Ice Breaker (SA001 to SA004). The 'Import hist.db.' button in the sidebar is highlighted with a red box.

Project ID	Project Name	Type ID	Type	Build Year	Yard
DS_1	Tank Star	100	Tanker for Oil	2000	
DS_2	Tank Lion	100	Tanker for Oil	2000	
DS_3	Tank Tiger	100	Tanker for Oil	2000	
DS_4	Tank Puma	100	Tanker for Oil	2000	
DS_5	Tank Sun	100	Tanker for Oil	2000	
DS_6	Tank Sensation	100	Tanker for Oil	2000	
DS_7	Tank Champion	100	Tanker for Oil	2000	
FA001	Bas Fighter	605	Anchor Handling Tug	1997	
FA002	Bas Stayer	605	Anchor Handling Tug	1997	
FA003	Bas Spirit	605	Anchor Handling Tug	1997	
FA004	Bas Viking	605	Anchor Handling Tug	1997	
FA005	Bas Breaker	605	Anchor Handling Tug	1997	
FA006	Bas Super	605	Anchor Handling Tug	1997	
FA007	Bas Dire	605	Anchor Handling Tug	1997	
FA008	Bas Straits	605	Anchor Handling Tug	1997	
FA009	Bas Gentle	605	Anchor Handling Tug	1997	
FA010	Bas Ruler	605	Anchor Handling Tug	1997	
FA011	Bas Leader	605	Anchor Handling Tug	1997	
FA012	Bas King	605	Anchor Handling Tug	1997	
GVA(P-1010)	MS Gunnerside	100	Tanker for Oil	2014	
R1	Real Survivor	901	Research Ship	1995	
R2	Real Fighter	901	Research Ship	1997	
R3	Real Artist	901	Research Ship	1999	
R4	Real Viking	901	Research Ship	1991	
R5	Real Challenge	901	Research Ship	1990	
R6	Real Motion	901	Research Ship	1992	
R7	Real Keeper	901	Research Ship	1993	
R8	Real American	901	Research Ship	1994	
R9	Real Hero	901	Research Ship	1996	
SA001	Active Hero	809	Salvage Ship and Ice Breaker	1987	
SA003	Active Girl	809	Salvage Ship and Ice Breaker	1988	
SA004	Active Horse	809	Salvage Ship and Ice Breaker	1990	

Buttons in the sidebar:

- Star Project
- Reference Project
- Reference Projects
 - Include All
 - Exclude All
- View
 - Project Info...
 - Main Param...
 - Parameters...
 - Method Data...
- Edit
 - Add Project...
 - Delete Project
- Import & Export
 - Copy to Clipboard
 - Paste Clipboard
 - Import hist.db.**

Buttons at the bottom: Print, OK, Cancel

Improved Code Summary Function

The 'Code Summary' window displays a table with columns: Weight [t], Percentage [%], VCG [m], LCG [m], and TCG [m]. It also features a pie chart for 'C08 - Module' with a legend for 'M2', 'M3', and 'M1'.

The 'Codes' table shows a summary of code weights and percentages. A context menu is open over the 'C08 - Module' row, listing actions such as 'Copy Table', 'Edit Codes', 'Print', 'Expand All', 'Collapse All', 'Add Correction', 'View Summary...', 'Update Values', and 'Update All'.

Code	Weight [t]	Percentage [%]	VCG [m]	LCG [m]	TCG [m]
C01 - Remark	0.000	0.0 %	0.00	0.00	0.00
C02 - Class	2 342.509	100.0 %	51.22	362.08	1.46
C03 - Module	0.000	0.0 %	0.00	0.00	0.00
C04 - Random	0.000	0.0 %	0.00	0.00	0.00
C05 - 485 digit	0.000	0.0 %	0.00	0.00	0.00
C06 - Effectivity	2 450.576	100.0 %			1.39
C07 - Library	3.889	100.0 %			0.00
C08 - Module	2 215.549	100.0 %			0.93
M1	833.449	37.6 %			-0.74
M2	1 099.231	49.6 %			2.39
M3	282.869	12.8 %			0.19
C09 - Prism	185.899	100.0 %			0.08

This window displays a detailed list of codes, including their descriptions, weights, and percentages, providing a granular view of the data.