



ΕΘΝΙΚΟ ΜΕΤΣΟΒΙΟ ΠΟΛΥΤΕΧΝΕΙΟ

ΣΧΟΛΗ ΝΑΥΠΗΓΩΝ ΜΗΧΑΝΟΛΟΓΩΝ ΜΗΧΑΝΙΚΩΝ

ΤΟΜΕΑΣ ΝΑΥΤΙΚΗΣ & ΘΑΛΑΣΣΙΑΣ ΥΔΡΟΔΥΝΑΜΙΚΗΣ

ΕΡΓΑΣΤΗΡΙΟ ΝΑΥΤΙΚΗΣ & ΘΑΛΑΣΣΙΑΣ ΥΔΡΟΔΥΝΑΜΙΚΗΣ

ΑΚΑΔ. ΕΤΟΣ 2018-2019

ΔΙΠΛΩΜΑΤΙΚΗ ΕΡΓΑΣΙΑ

**“ΑΞΙΟΛΟΓΗΣΗ ΥΠΟΛΟΓΙΣΤΙΚΗΣ ΜΕΘΟΔΟΥ CAH1 ΓΙΑ ΤΗΝ ΑΝΤΙΣΤΑΣΗ
ΤΑΧΥΠΛΟΩΩΝ ΣΚΑΦΩΝ”**

ΤΕΥΧΟΣ II

ΕΠΙΒΛΕΠΩΝ: ΓΡΗΓΟΡΟΠΟΥΛΟΣ ΓΡΗΓΟΡΙΟΣ, ΚΑΘΗΓΗΤΗΣ

ΣΤΑΥΡΙΔΗΣ ΓΕΩΡΓΙΟΣ-ΒΑΣΙΛΕΙΟΣ

nm14907

ΠΕΡΙΟΧΟΜΕΝΑ

Τεύχος II:Παράρτημα Γ: Αποτελέσματα Προσομοιώσεων

| | |
|---------------------------------|-------------|
| Μοντέλο DELFT 4667..... | σελ.4-21 |
| Μοντέλο DELFT 4668..... | σελ.22-39 |
| Μοντέλο DELFT 4669..... | σελ.40-57 |
| Μοντέλο DELFT 522..... | σελ.58-75 |
| Μοντέλο DELFT 524..... | σελ.76-93 |
| Μοντέλο DELFT 525..... | σελ.94-111 |
| Μοντέλο DELFT 362..... | σελ.112-129 |
| Μοντέλο DELFT 363..... | σελ.130-147 |
| Μοντέλο DELFT 364..... | σελ.148-165 |
| Μοντέλο DELFT 188..... | σελ.166-183 |
| Μοντέλο DELFT 189..... | σελ.184-201 |
| Μοντέλο DELFT 190..... | σελ.202-219 |
| Μοντέλο DELFT 251..... | σελ.220-237 |
| Μοντέλο DELFT 252..... | σελ.238-255 |
| Μοντέλο DELFT 260..... | σελ.256-273 |
| Μοντέλο NTUA SMALL L/B=4..... | σελ.274-279 |
| Μοντέλο NTUA SMALL L/B=5.5..... | σελ.280-285 |
| Μοντέλο NTUA SMALL L/B=7..... | σελ.285-290 |

Simulation Info:

 27/06/2019 04:45:38 pm

Input Data:

 Ship Speed: from Vs1=1.00 m/s to Vs2=7.00 m/s (for 20 different Ship Speed values)
 Ship Displacement: Disp=52.15 kp
 Breadth at Chine: Bc=0.60 m
 Deadrise Angle: b=12.50 deg
 LCG: from LCG1=0.93 m to LCG2=1.12 m (for 3 different LCG values)

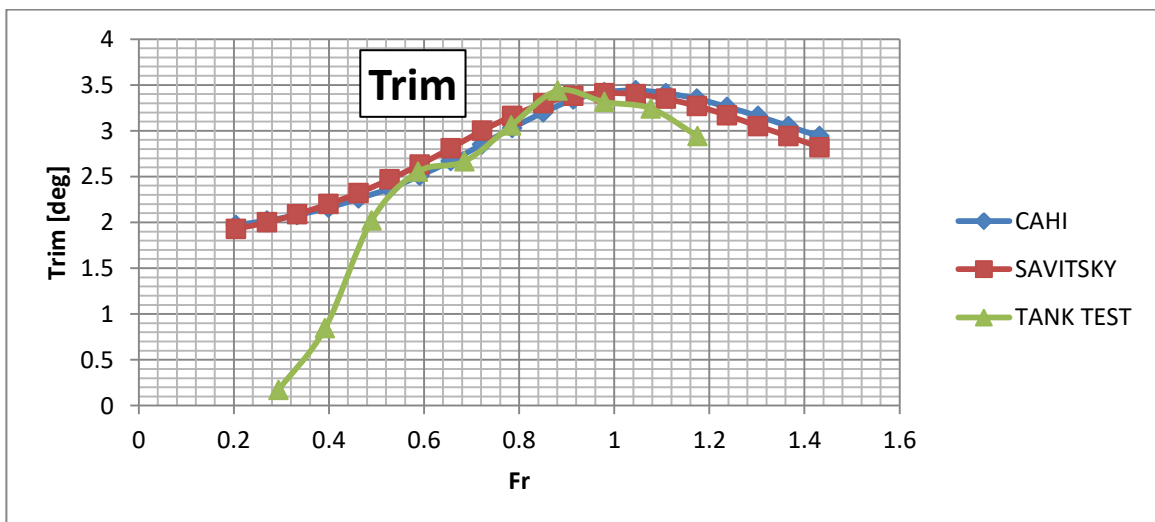
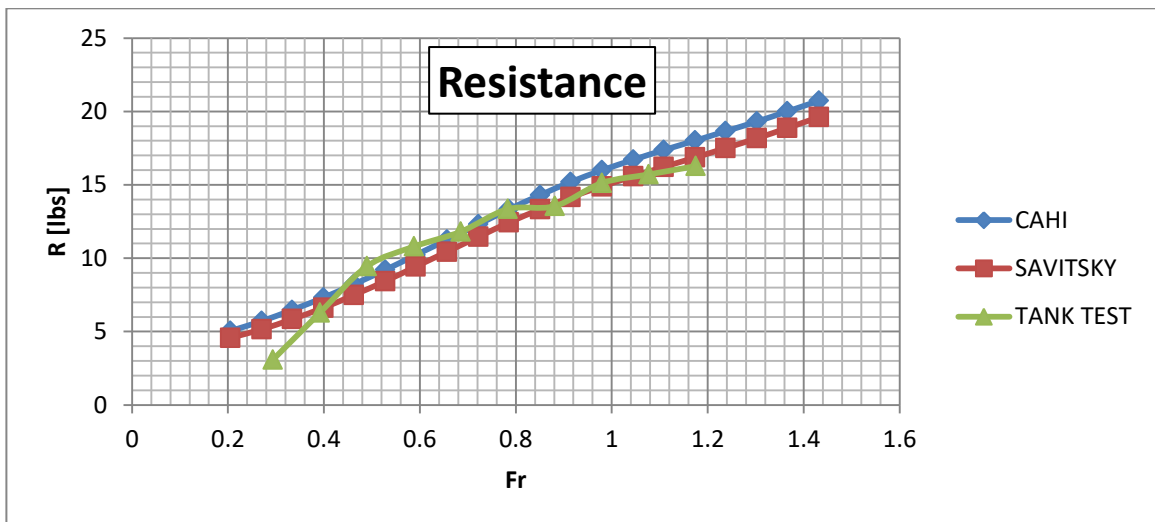
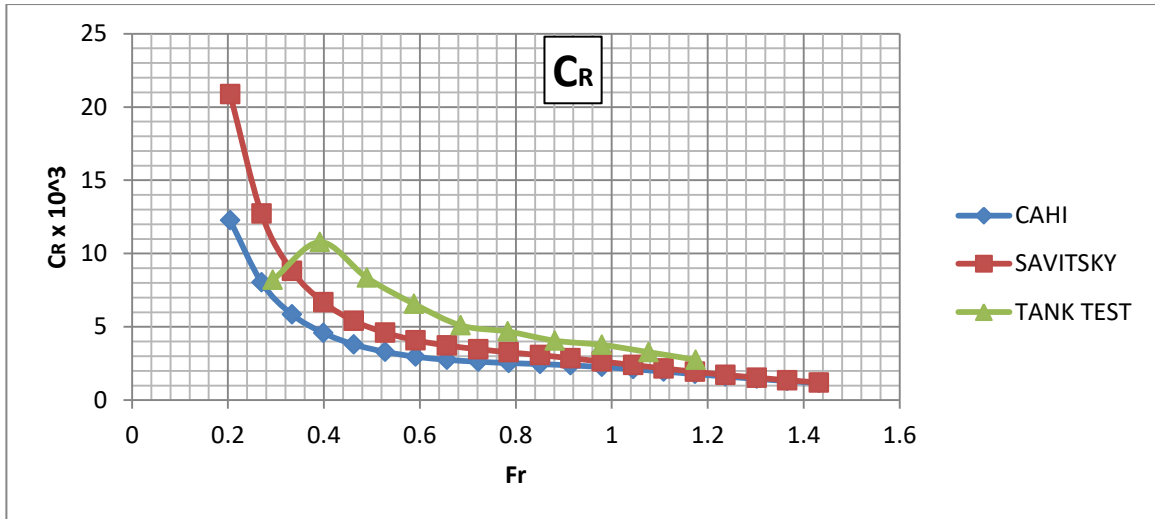
Fresh water properties at 23.30C:

Density=997.34 kg/m³
 Viscosity=0.92825*10⁻⁶ m²/s

Results:

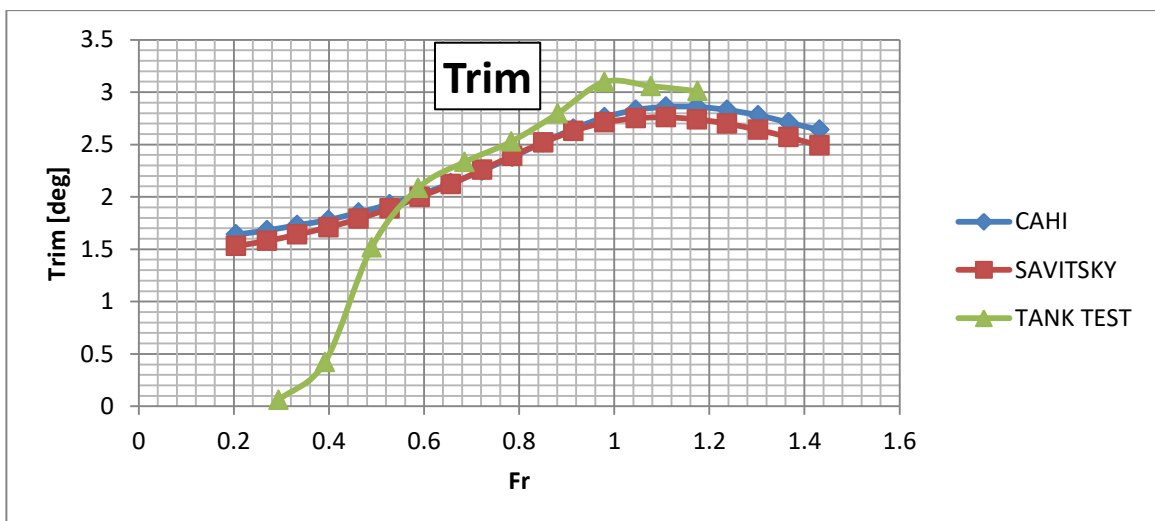
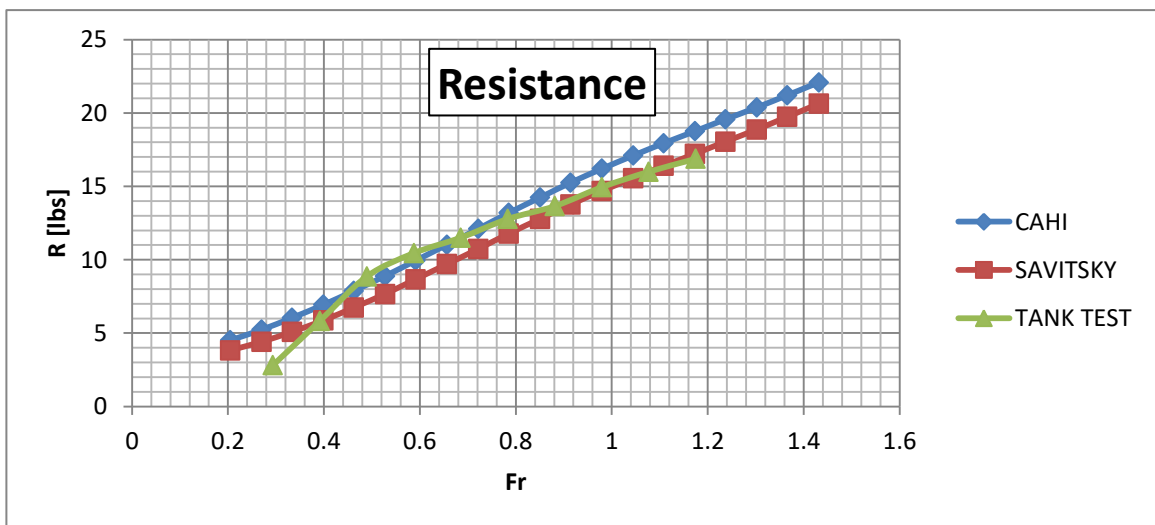
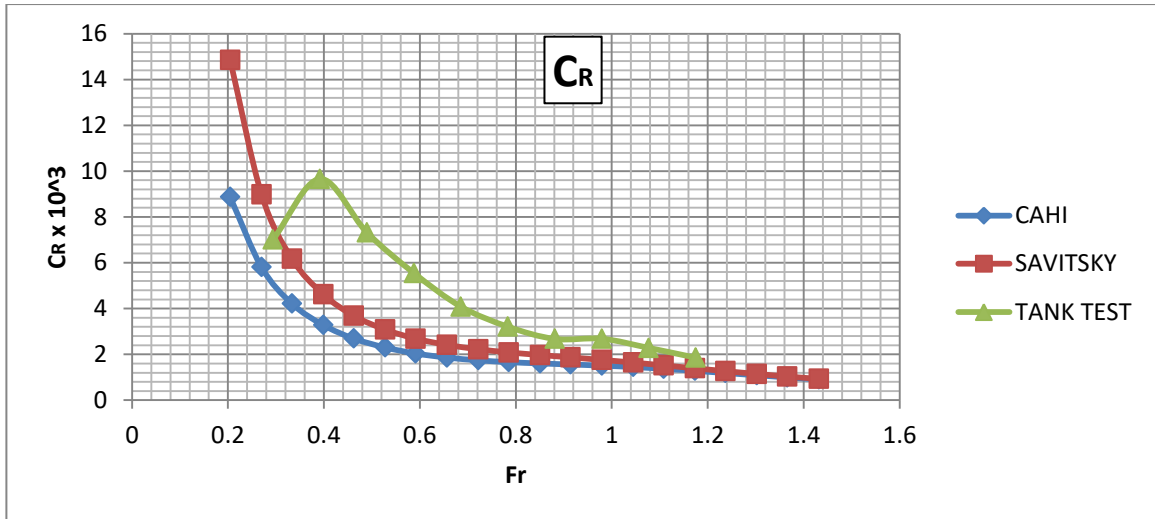
 b=12.50 deg Bc=0.60 m Disp=52.15 kp LCG=0.93 m

| ~CAHI~ | | | | | | | ~SAVITSKY~ | | | | | |
|--------|-------|-------|------|-----------------|-----------------|-------|------------|-------|------|-----------------|-----------------|-------|
| Vs | Lamda | Trim | D/W | Cr | Ct | R | Lamda | Trim | D/W | Cr | Ct | R |
| [m/s] | - | [deg] | [%] | 10 ³ | 10 ³ | [lbs] | - | [deg] | [%] | 10 ³ | 10 ³ | [lbs] |
| 1.00 | 7.95 | 1.97 | 0.04 | 12.269 | 15.655 | 5.04 | 4.59 | 1.93 | 0.04 | 20.876 | 24.633 | 4.57 |
| 1.32 | 7.20 | 2.02 | 0.05 | 8.037 | 11.316 | 5.71 | 4.51 | 2.00 | 0.04 | 12.720 | 16.296 | 5.15 |
| 1.63 | 6.63 | 2.08 | 0.06 | 5.855 | 9.057 | 6.47 | 4.42 | 2.09 | 0.05 | 8.828 | 12.276 | 5.84 |
| 1.95 | 6.17 | 2.16 | 0.06 | 4.591 | 7.734 | 7.31 | 4.30 | 2.20 | 0.06 | 6.691 | 10.045 | 6.62 |
| 2.26 | 5.76 | 2.26 | 0.07 | 3.805 | 6.903 | 8.22 | 4.17 | 2.32 | 0.07 | 5.414 | 8.696 | 7.49 |
| 2.58 | 5.39 | 2.37 | 0.08 | 3.299 | 6.362 | 9.20 | 4.01 | 2.47 | 0.07 | 4.608 | 7.837 | 8.43 |
| 2.89 | 5.03 | 2.51 | 0.09 | 2.968 | 6.007 | 10.21 | 3.84 | 2.63 | 0.08 | 4.083 | 7.271 | 9.42 |
| 3.21 | 4.70 | 2.67 | 0.10 | 2.756 | 5.777 | 11.25 | 3.66 | 2.81 | 0.09 | 3.730 | 6.886 | 10.44 |
| 3.53 | 4.37 | 2.85 | 0.11 | 2.623 | 5.632 | 12.30 | 3.47 | 3.00 | 0.10 | 3.476 | 6.610 | 11.45 |
| 3.84 | 4.07 | 3.03 | 0.12 | 2.535 | 5.538 | 13.33 | 3.29 | 3.16 | 0.11 | 3.269 | 6.386 | 12.43 |
| 4.16 | 3.79 | 3.20 | 0.12 | 2.462 | 5.461 | 14.30 | 3.12 | 3.30 | 0.12 | 3.072 | 6.175 | 13.33 |
| 4.47 | 3.54 | 3.34 | 0.13 | 2.376 | 5.372 | 15.19 | 2.97 | 3.38 | 0.12 | 2.863 | 5.953 | 14.15 |
| 4.79 | 3.33 | 3.42 | 0.14 | 2.260 | 5.254 | 15.99 | 2.84 | 3.41 | 0.13 | 2.637 | 5.714 | 14.89 |
| 5.11 | 3.16 | 3.44 | 0.15 | 2.116 | 5.105 | 16.71 | 2.74 | 3.40 | 0.14 | 2.401 | 5.464 | 15.58 |
| 5.42 | 3.01 | 3.41 | 0.15 | 1.952 | 4.934 | 17.37 | 2.65 | 3.35 | 0.14 | 2.165 | 5.213 | 16.22 |
| 5.74 | 2.89 | 3.35 | 0.16 | 1.781 | 4.755 | 18.01 | 2.58 | 3.27 | 0.15 | 1.939 | 4.971 | 16.86 |
| 6.05 | 2.80 | 3.26 | 0.16 | 1.612 | 4.576 | 18.65 | 2.52 | 3.17 | 0.15 | 1.728 | 4.744 | 17.50 |
| 6.37 | 2.71 | 3.16 | 0.17 | 1.453 | 4.405 | 19.31 | 2.47 | 3.05 | 0.16 | 1.536 | 4.536 | 18.17 |
| 6.68 | 2.64 | 3.05 | 0.17 | 1.305 | 4.246 | 20.00 | 2.43 | 2.94 | 0.16 | 1.363 | 4.347 | 18.87 |
| 7.00 | 2.58 | 2.94 | 0.18 | 1.172 | 4.101 | 20.72 | 2.39 | 2.82 | 0.17 | 1.210 | 4.177 | 19.61 |



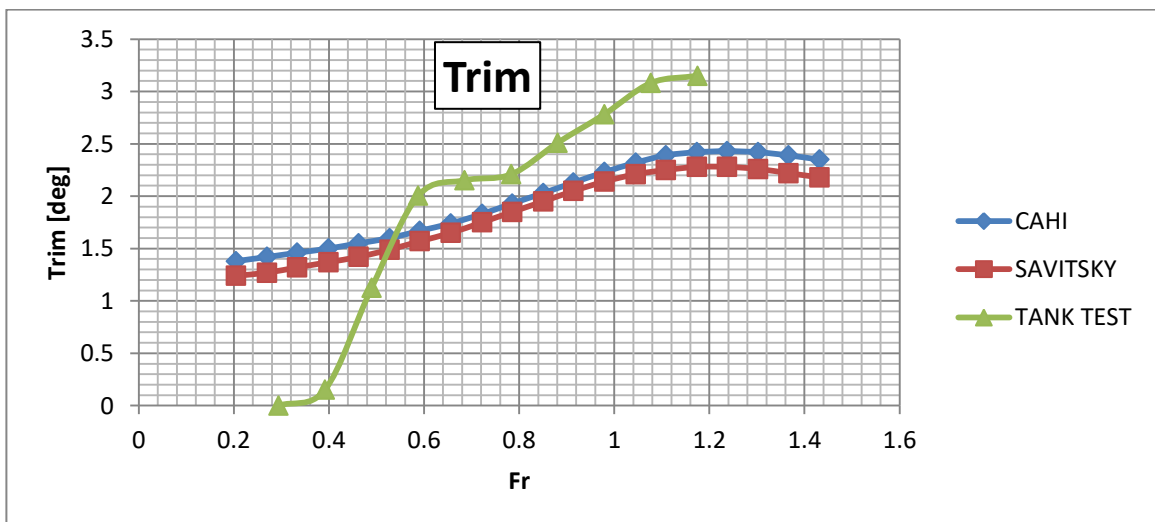
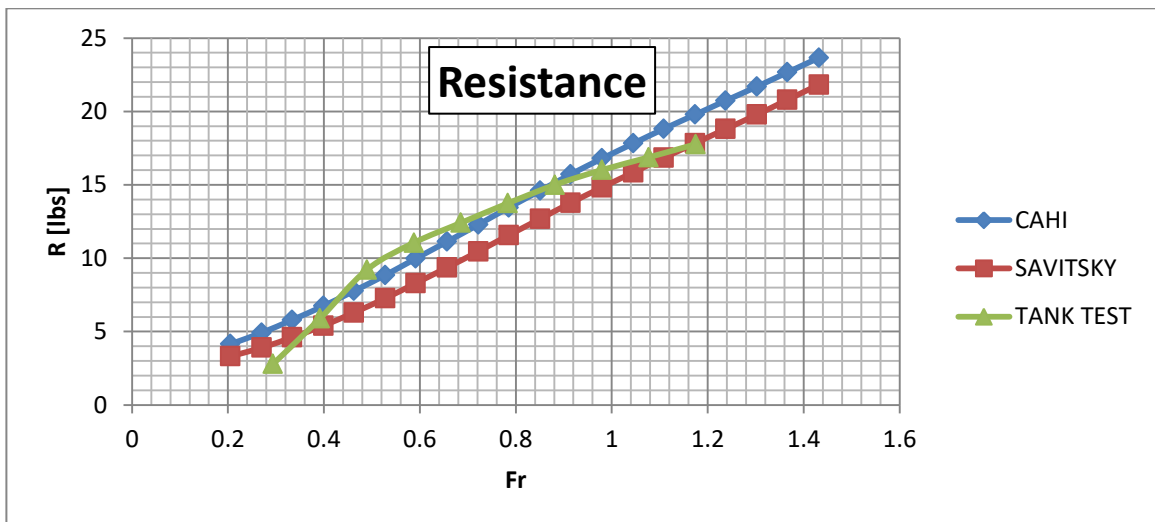
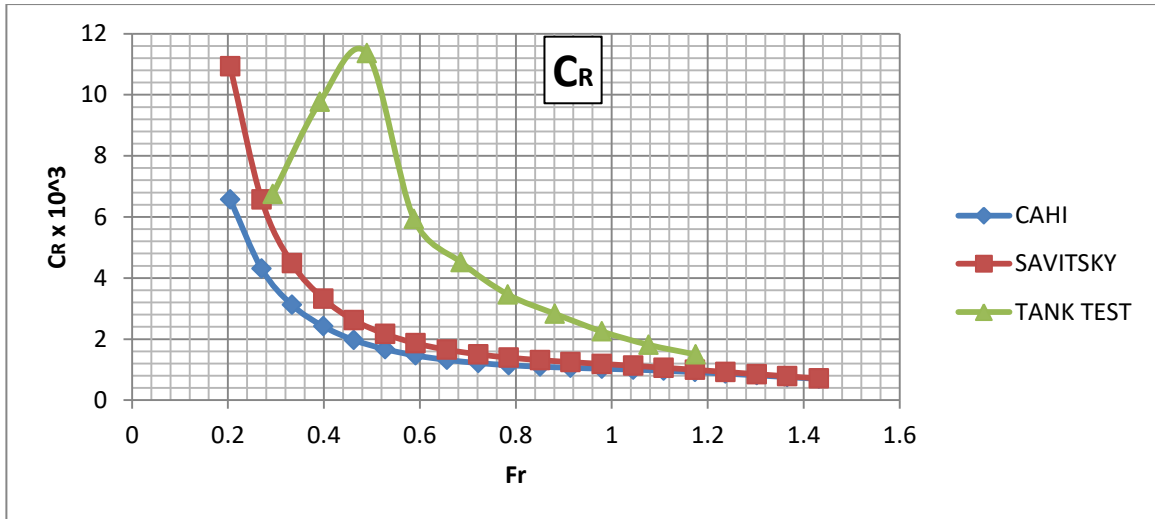
b=12.50 deg Bc=0.60 m Disp=52.15 kp LCG=1.02 m

| ~CAHI~ | | | | | | | ~SAVITSKY~ | | | | | |
|-------------|------------|---------------|------------|-----------------------|-----------------------|------------|------------|---------------|------------|-----------------------|-----------------------|------------|
| Vs [m/s] | Lamda - | Trim [deg] | D/W [%] | Cr 10 ³ | Ct 10 ³ | R [lbs] | Lamda - | Trim [deg] | D/W [%] | Cr 10 ³ | Ct 10 ³ | R [lbs] |
| 1.00 | 9.14 | 1.64 | 0.04 | 8.869 | 12.168 | 4.51 | 5.09 | 1.53 | 0.03 | 14.859 | 18.541 | 3.83 |
| 1.32 | 8.27 | 1.68 | 0.05 | 5.806 | 9.003 | 5.23 | 5.02 | 1.58 | 0.04 | 8.984 | 12.488 | 4.41 |
| 1.63 | 7.63 | 1.73 | 0.05 | 4.213 | 7.335 | 6.04 | 4.94 | 1.64 | 0.04 | 6.172 | 9.550 | 5.09 |
| 1.95 | 7.10 | 1.78 | 0.06 | 3.279 | 6.344 | 6.93 | 4.83 | 1.71 | 0.05 | 4.621 | 7.903 | 5.87 |
| 2.26 | 6.65 | 1.85 | 0.07 | 2.691 | 5.710 | 7.88 | 4.71 | 1.79 | 0.06 | 3.684 | 6.894 | 6.74 |
| 2.58 | 6.25 | 1.93 | 0.08 | 2.302 | 5.286 | 8.89 | 4.57 | 1.89 | 0.07 | 3.085 | 6.238 | 7.67 |
| 2.89 | 5.87 | 2.02 | 0.09 | 2.039 | 4.997 | 9.94 | 4.41 | 2.00 | 0.08 | 2.687 | 5.795 | 8.67 |
| 3.21 | 5.52 | 2.13 | 0.10 | 1.861 | 4.798 | 11.02 | 4.24 | 2.12 | 0.08 | 2.416 | 5.490 | 9.70 |
| 3.53 | 5.17 | 2.25 | 0.11 | 1.741 | 4.663 | 12.11 | 4.06 | 2.26 | 0.09 | 2.226 | 5.273 | 10.74 |
| 3.84 | 4.85 | 2.38 | 0.11 | 1.661 | 4.573 | 13.19 | 3.87 | 2.39 | 0.10 | 2.086 | 5.113 | 11.78 |
| 4.16 | 4.54 | 2.52 | 0.12 | 1.605 | 4.511 | 14.24 | 3.69 | 2.52 | 0.11 | 1.973 | 4.984 | 12.79 |
| 4.47 | 4.25 | 2.65 | 0.13 | 1.559 | 4.462 | 15.25 | 3.51 | 2.63 | 0.12 | 1.868 | 4.867 | 13.76 |
| 4.79 | 3.99 | 2.76 | 0.14 | 1.509 | 4.409 | 16.20 | 3.35 | 2.71 | 0.13 | 1.759 | 4.747 | 14.69 |
| 5.11 | 3.77 | 2.83 | 0.15 | 1.447 | 4.344 | 17.10 | 3.22 | 2.75 | 0.14 | 1.643 | 4.619 | 15.56 |
| 5.42 | 3.58 | 2.86 | 0.16 | 1.370 | 4.263 | 17.94 | 3.10 | 2.76 | 0.14 | 1.519 | 4.484 | 16.40 |
| 5.74 | 3.41 | 2.86 | 0.16 | 1.281 | 4.169 | 18.76 | 3.00 | 2.74 | 0.15 | 1.392 | 4.345 | 17.22 |
| 6.05 | 3.28 | 2.83 | 0.17 | 1.185 | 4.067 | 19.57 | 2.91 | 2.70 | 0.16 | 1.267 | 4.207 | 18.05 |
| 6.37 | 3.17 | 2.78 | 0.18 | 1.088 | 3.962 | 20.38 | 2.84 | 2.64 | 0.16 | 1.147 | 4.073 | 18.88 |
| 6.68 | 3.07 | 2.71 | 0.18 | 0.994 | 3.859 | 21.21 | 2.78 | 2.57 | 0.17 | 1.034 | 3.947 | 19.74 |
| 7.00 | 2.99 | 2.64 | 0.19 | 0.904 | 3.760 | 22.08 | 2.73 | 2.49 | 0.18 | 0.930 | 3.829 | 20.63 |



b=12.50 deg Bc=0.60 m Disp=52.15 kp LCG=1.12 m

| ~CAHI~ | | | | | | | ~SAVITSKY~ | | | | | |
|-------------|------------|---------------|------------|-----------------------|-----------------------|------------|------------|---------------|------------|-----------------------|-----------------------|------------|
| Vs [m/s] | Lamda - | Trim [deg] | D/W [%] | Cr 10 ³ | Ct 10 ³ | R [lbs] | Lamda - | Trim [deg] | D/W [%] | Cr 10 ³ | Ct 10 ³ | R [lbs] |
| 1.00 | 10.41 | 1.38 | 0.04 | 6.573 | 9.796 | 4.14 | 5.59 | 1.24 | 0.03 | 10.933 | 14.549 | 3.31 |
| 1.32 | 9.41 | 1.42 | 0.04 | 4.308 | 7.432 | 4.92 | 5.53 | 1.27 | 0.03 | 6.573 | 10.014 | 3.90 |
| 1.63 | 8.67 | 1.46 | 0.05 | 3.120 | 6.172 | 5.79 | 5.45 | 1.32 | 0.04 | 4.482 | 7.798 | 4.60 |
| 1.95 | 8.08 | 1.50 | 0.06 | 2.418 | 5.414 | 6.74 | 5.36 | 1.37 | 0.05 | 3.325 | 6.546 | 5.40 |
| 2.26 | 7.58 | 1.55 | 0.07 | 1.971 | 4.922 | 7.76 | 5.25 | 1.42 | 0.05 | 2.622 | 5.770 | 6.29 |
| 2.58 | 7.14 | 1.60 | 0.08 | 1.671 | 4.587 | 8.84 | 5.12 | 1.49 | 0.06 | 2.168 | 5.258 | 7.26 |
| 2.89 | 6.74 | 1.67 | 0.09 | 1.464 | 4.352 | 9.97 | 4.97 | 1.57 | 0.07 | 1.863 | 4.906 | 8.29 |
| 3.21 | 6.36 | 1.74 | 0.10 | 1.319 | 4.184 | 11.12 | 4.81 | 1.65 | 0.08 | 1.651 | 4.657 | 9.36 |
| 3.53 | 6.00 | 1.83 | 0.11 | 1.217 | 4.065 | 12.29 | 4.64 | 1.75 | 0.09 | 1.502 | 4.479 | 10.46 |
| 3.84 | 5.65 | 1.93 | 0.12 | 1.146 | 3.982 | 13.45 | 4.45 | 1.85 | 0.10 | 1.394 | 4.348 | 11.57 |
| 4.16 | 5.32 | 2.03 | 0.13 | 1.097 | 3.924 | 14.60 | 4.27 | 1.95 | 0.11 | 1.313 | 4.248 | 12.68 |
| 4.47 | 5.01 | 2.13 | 0.14 | 1.061 | 3.882 | 15.71 | 4.08 | 2.05 | 0.12 | 1.247 | 4.168 | 13.77 |
| 4.79 | 4.71 | 2.23 | 0.15 | 1.031 | 3.849 | 16.79 | 3.90 | 2.14 | 0.13 | 1.187 | 4.097 | 14.82 |
| 5.11 | 4.45 | 2.32 | 0.16 | 1.000 | 3.816 | 17.82 | 3.74 | 2.21 | 0.14 | 1.127 | 4.026 | 15.85 |
| 5.42 | 4.21 | 2.39 | 0.16 | 0.964 | 3.777 | 18.81 | 3.59 | 2.25 | 0.15 | 1.063 | 3.953 | 16.84 |
| 5.74 | 4.00 | 2.42 | 0.17 | 0.920 | 3.731 | 19.78 | 3.47 | 2.28 | 0.16 | 0.995 | 3.875 | 17.83 |
| 6.05 | 3.83 | 2.43 | 0.18 | 0.869 | 3.676 | 20.73 | 3.35 | 2.28 | 0.16 | 0.924 | 3.794 | 18.80 |
| 6.37 | 3.68 | 2.42 | 0.19 | 0.814 | 3.615 | 21.69 | 3.26 | 2.26 | 0.17 | 0.853 | 3.711 | 19.78 |
| 6.68 | 3.55 | 2.39 | 0.20 | 0.756 | 3.551 | 22.66 | 3.18 | 2.22 | 0.18 | 0.782 | 3.629 | 20.79 |
| 7.00 | 3.44 | 2.35 | 0.21 | 0.698 | 3.486 | 23.65 | 3.11 | 2.18 | 0.19 | 0.714 | 3.549 | 21.82 |



Simulation Info:

 27/06/2019 04:46:31 pm

Input Data:

 Ship Speed: from Vs1=1.00 m/s to Vs2=7.00 m/s (for 20 different Ship Speed values)
 Ship Displacement: Disp=69.78 kp
 Breadth at Chine: Bc=0.60 m
 Deadrise Angle: b=12.50 deg
 LCG: from LCG1=0.93 m to LCG2=1.12 m (for 3 different LCG values)

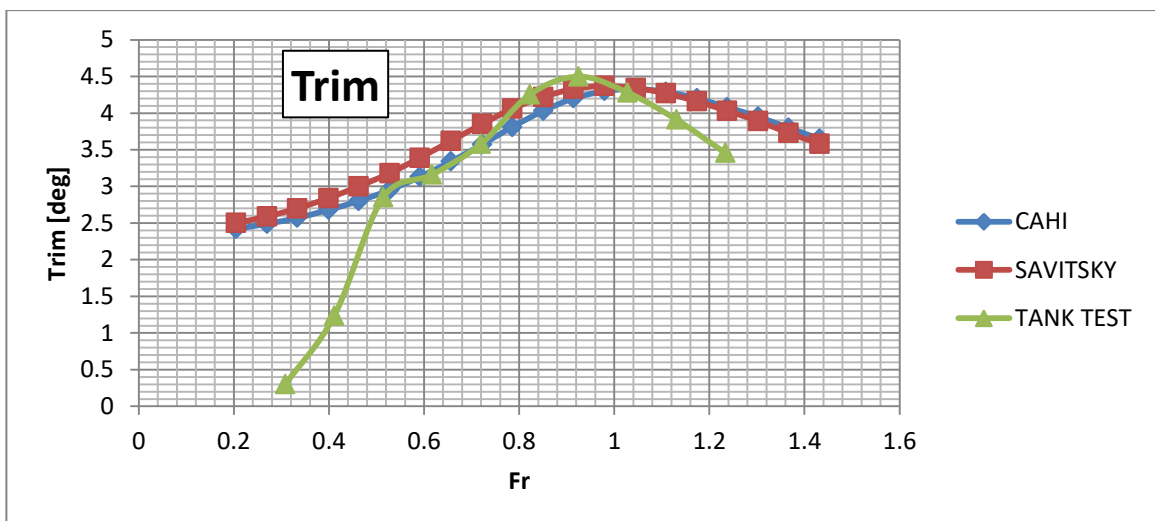
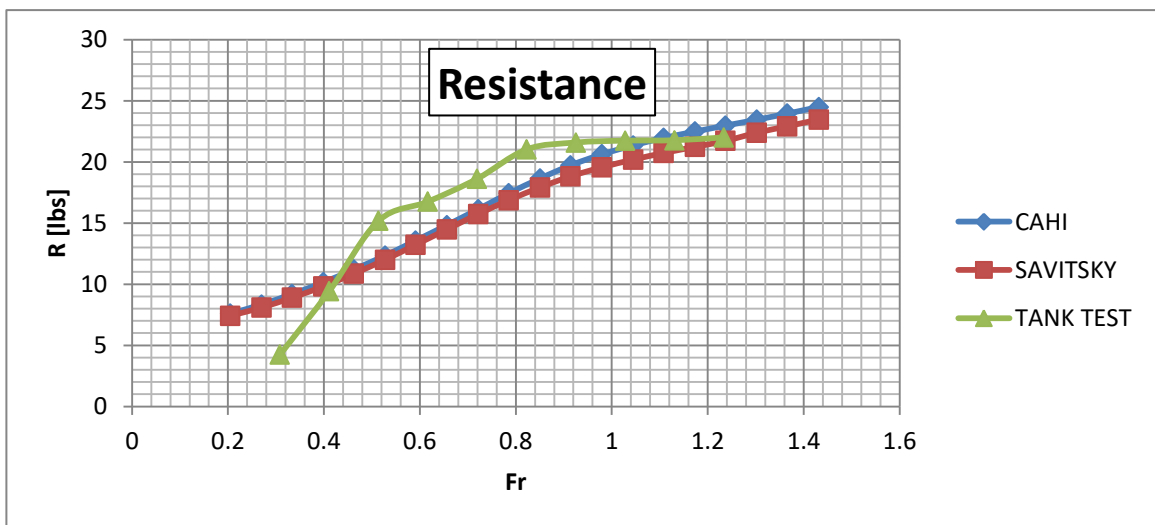
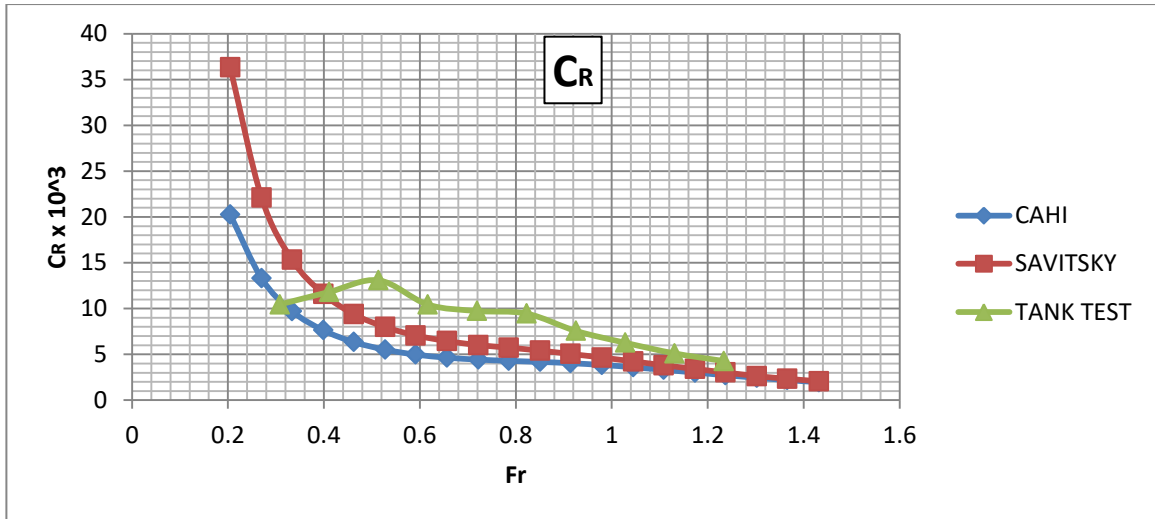
Fresh water properties at 23.90C:

Density=997.22 kg/m³
 Viscosity=0.91549*10⁻⁶ m²/s

Results:

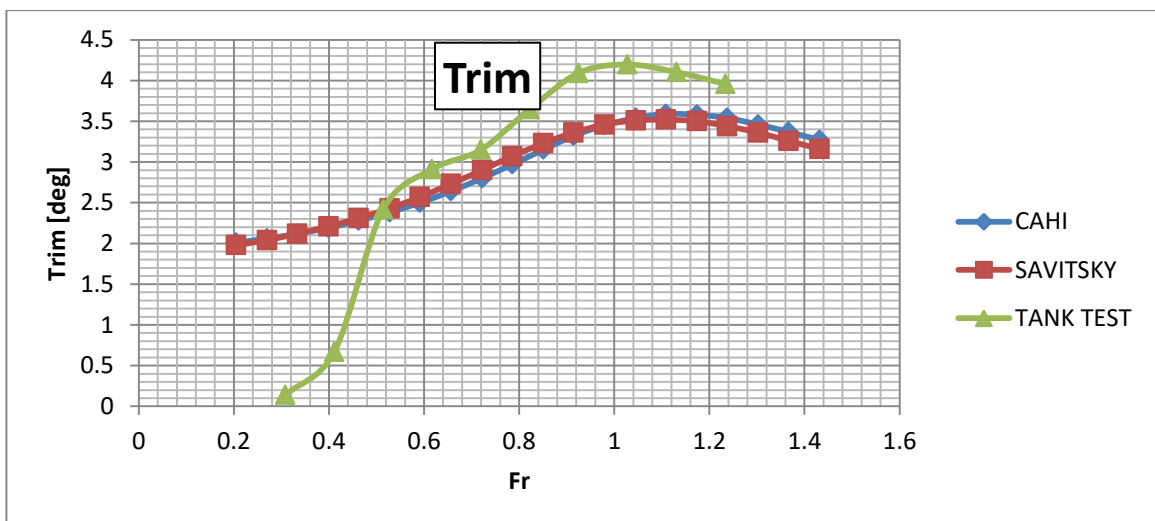
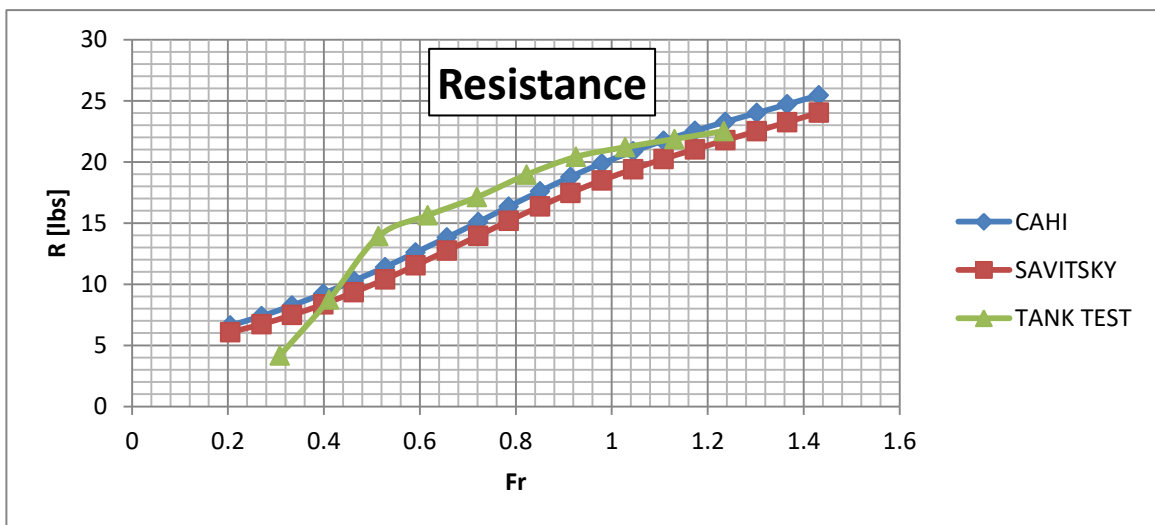
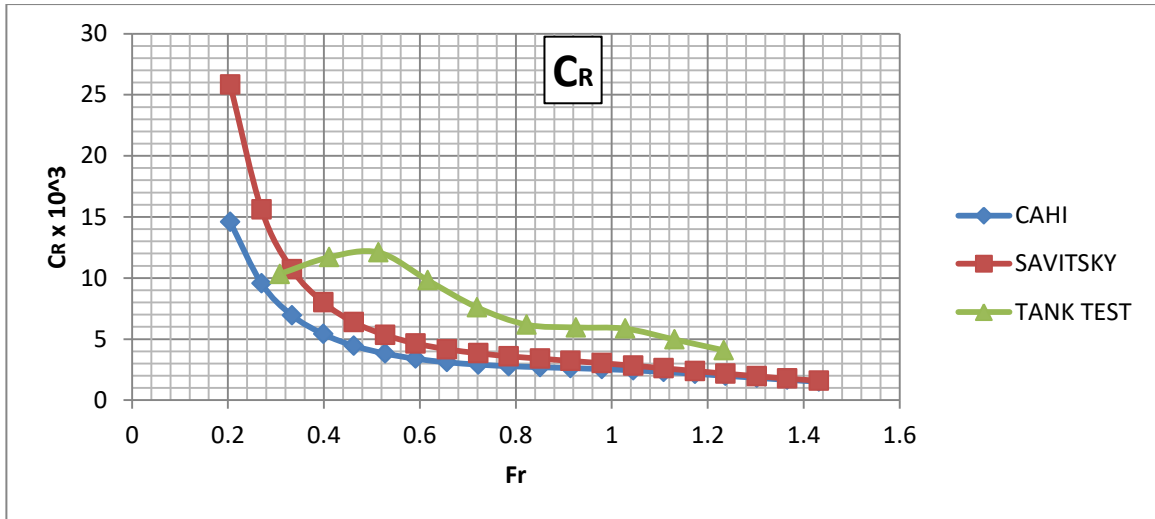
 b=12.50 deg Bc=0.60 m Disp=69.78 kp LCG=0.93 m

| ~CAHI~ | | | | | | | ~SAVITSKY~ | | | | | |
|--------|-------|-------|------|-----------------|-----------------|-------|------------|-------|------|-----------------|-----------------|-------|
| Vs | Lamda | Trim | D/W | Cr | Ct | R | Lamda | Trim | D/W | Cr | Ct | R |
| [m/s] | - | [deg] | [%] | 10 ³ | 10 ³ | [lbs] | - | [deg] | [%] | 10 ³ | 10 ³ | [lbs] |
| 1.00 | 7.95 | 2.42 | 0.05 | 20.277 | 23.656 | 7.59 | 4.59 | 2.50 | 0.05 | 36.346 | 40.095 | 7.42 |
| 1.32 | 7.20 | 2.49 | 0.05 | 13.303 | 16.575 | 8.34 | 4.51 | 2.59 | 0.05 | 22.121 | 25.689 | 8.09 |
| 1.63 | 6.63 | 2.57 | 0.06 | 9.712 | 12.906 | 9.19 | 4.42 | 2.70 | 0.06 | 15.335 | 18.776 | 8.90 |
| 1.95 | 6.17 | 2.68 | 0.07 | 7.633 | 10.769 | 10.15 | 4.30 | 2.84 | 0.06 | 11.613 | 14.959 | 9.82 |
| 2.26 | 5.76 | 2.80 | 0.07 | 6.344 | 9.435 | 11.20 | 4.17 | 3.00 | 0.07 | 9.388 | 12.663 | 10.86 |
| 2.58 | 5.39 | 2.95 | 0.08 | 5.516 | 8.573 | 12.34 | 4.01 | 3.18 | 0.08 | 7.985 | 11.207 | 12.00 |
| 2.89 | 5.03 | 3.13 | 0.09 | 4.980 | 8.012 | 13.56 | 3.84 | 3.39 | 0.09 | 7.071 | 10.252 | 13.22 |
| 3.21 | 4.70 | 3.34 | 0.10 | 4.639 | 7.653 | 14.83 | 3.66 | 3.62 | 0.09 | 6.455 | 9.605 | 14.48 |
| 3.53 | 4.37 | 3.57 | 0.10 | 4.429 | 7.432 | 16.14 | 3.47 | 3.85 | 0.10 | 6.013 | 9.140 | 15.74 |
| 3.84 | 4.07 | 3.81 | 0.11 | 4.294 | 7.291 | 17.43 | 3.24 | 4.06 | 0.11 | 5.737 | 8.856 | 16.87 |
| 4.16 | 3.79 | 4.03 | 0.12 | 4.180 | 7.174 | 18.65 | 3.06 | 4.22 | 0.12 | 5.407 | 8.514 | 17.92 |
| 4.47 | 3.54 | 4.20 | 0.13 | 4.039 | 7.031 | 19.72 | 2.91 | 4.33 | 0.12 | 5.048 | 8.144 | 18.82 |
| 4.79 | 3.33 | 4.30 | 0.13 | 3.845 | 6.834 | 20.62 | 2.78 | 4.37 | 0.13 | 4.654 | 7.737 | 19.56 |
| 5.11 | 3.16 | 4.33 | 0.14 | 3.598 | 6.582 | 21.35 | 2.68 | 4.34 | 0.13 | 4.235 | 7.305 | 20.19 |
| 5.42 | 3.01 | 4.29 | 0.14 | 3.315 | 6.292 | 21.96 | 2.59 | 4.27 | 0.13 | 3.813 | 6.868 | 20.73 |
| 5.74 | 2.89 | 4.20 | 0.15 | 3.019 | 5.987 | 22.48 | 2.53 | 4.16 | 0.14 | 3.405 | 6.443 | 21.23 |
| 6.05 | 2.80 | 4.08 | 0.15 | 2.726 | 5.684 | 22.97 | 2.47 | 4.03 | 0.14 | 3.024 | 6.045 | 21.72 |
| 6.37 | 2.71 | 3.95 | 0.15 | 2.448 | 5.396 | 23.45 | 2.47 | 3.89 | 0.15 | 2.634 | 5.629 | 22.39 |
| 6.68 | 2.64 | 3.80 | 0.16 | 2.193 | 5.129 | 23.95 | 2.43 | 3.73 | 0.15 | 2.335 | 5.313 | 22.91 |
| 7.00 | 2.58 | 3.65 | 0.16 | 1.962 | 4.886 | 24.49 | 2.39 | 3.58 | 0.15 | 2.070 | 5.032 | 23.47 |



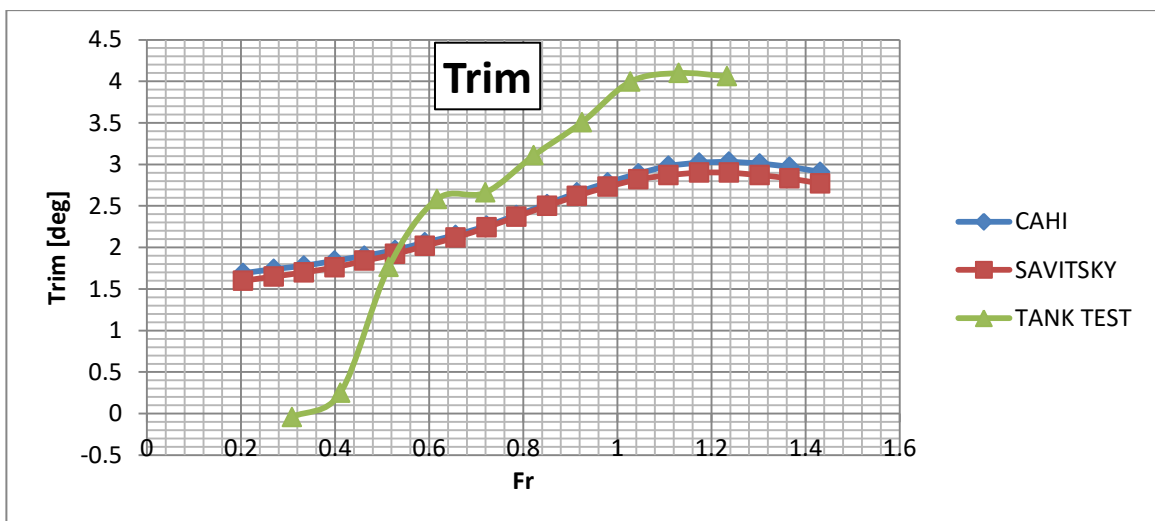
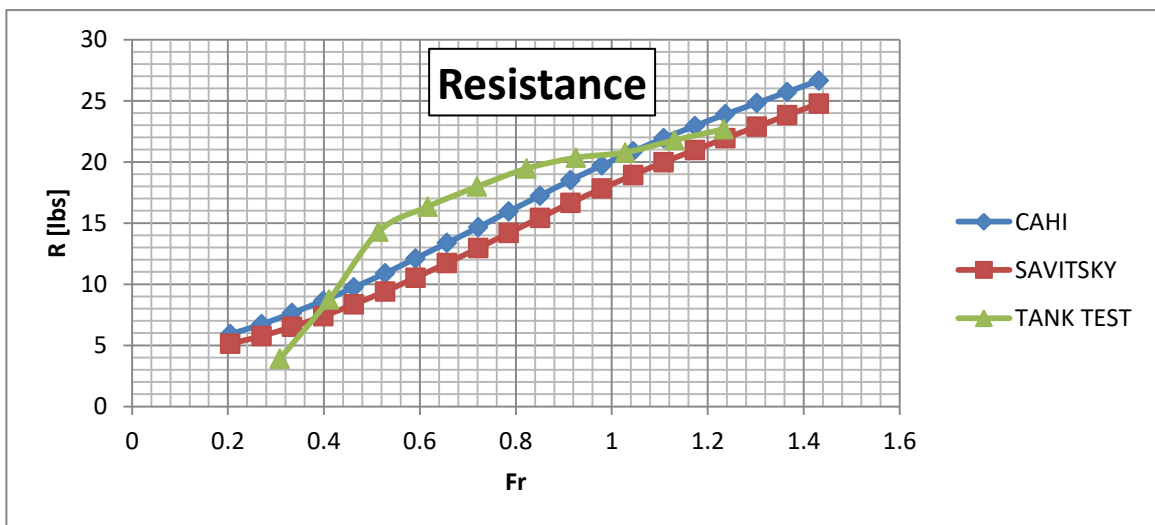
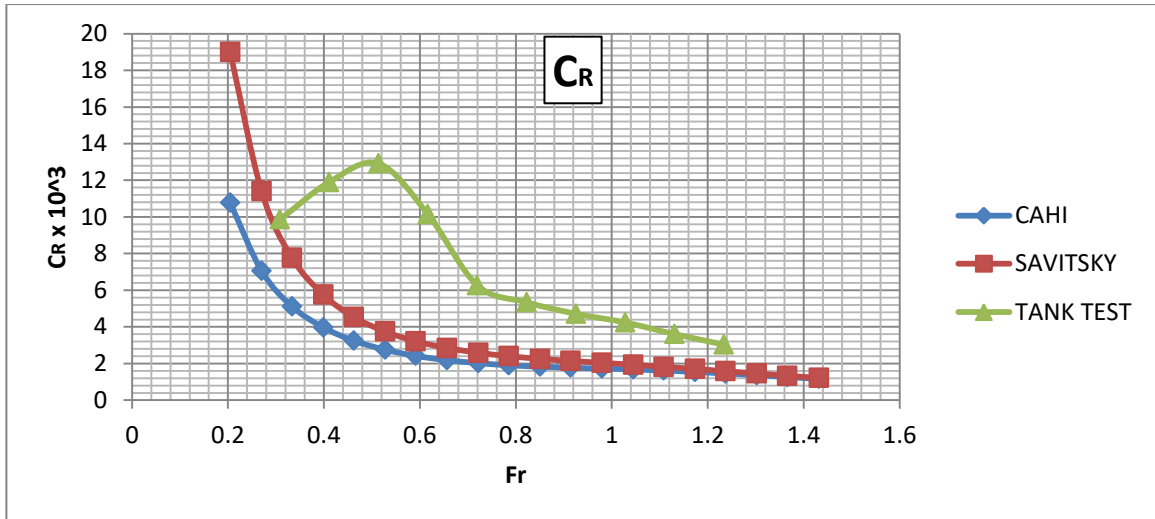
b=12.50 deg Bc=0.60 m Disp=69.78 kp LCG=1.02 m

| ~CAHI~ | | | | | | | ~SAVITSKY~ | | | | | |
|-------------|------------|---------------|------------|-----------------------|-----------------------|------------|------------|---------------|------------|-----------------------|-----------------------|------------|
| Vs [m/s] | Lamda - | Trim [deg] | D/W [%] | Cr 10 ³ | Ct 10 ³ | R [lbs] | Lamda - | Trim [deg] | D/W [%] | Cr 10 ³ | Ct 10 ³ | R [lbs] |
| 1.00 | 9.14 | 2.01 | 0.04 | 14.588 | 17.880 | 6.62 | 5.09 | 1.98 | 0.04 | 25.844 | 29.517 | 6.08 |
| 1.32 | 8.27 | 2.06 | 0.05 | 9.558 | 12.748 | 7.39 | 5.02 | 2.04 | 0.04 | 15.607 | 19.102 | 6.72 |
| 1.63 | 7.63 | 2.12 | 0.05 | 6.945 | 10.060 | 8.26 | 4.94 | 2.12 | 0.05 | 10.710 | 14.080 | 7.48 |
| 1.95 | 7.10 | 2.19 | 0.06 | 5.416 | 8.474 | 9.23 | 4.83 | 2.21 | 0.05 | 8.009 | 11.284 | 8.36 |
| 2.26 | 6.65 | 2.28 | 0.07 | 4.453 | 7.466 | 10.28 | 4.71 | 2.31 | 0.06 | 6.379 | 9.582 | 9.34 |
| 2.58 | 6.25 | 2.38 | 0.07 | 3.820 | 6.797 | 11.40 | 4.57 | 2.43 | 0.07 | 5.337 | 8.483 | 10.40 |
| 2.89 | 5.87 | 2.50 | 0.08 | 3.393 | 6.343 | 12.59 | 4.41 | 2.57 | 0.08 | 4.644 | 7.746 | 11.54 |
| 3.21 | 5.52 | 2.64 | 0.09 | 3.104 | 6.035 | 13.82 | 4.24 | 2.73 | 0.08 | 4.172 | 7.240 | 12.74 |
| 3.53 | 5.17 | 2.80 | 0.10 | 2.912 | 5.828 | 15.08 | 4.06 | 2.90 | 0.09 | 3.841 | 6.883 | 13.96 |
| 3.84 | 4.85 | 2.97 | 0.11 | 2.786 | 5.692 | 16.35 | 3.87 | 3.07 | 0.10 | 3.598 | 6.619 | 15.18 |
| 4.16 | 4.54 | 3.15 | 0.11 | 2.700 | 5.600 | 17.60 | 3.69 | 3.23 | 0.11 | 3.400 | 6.406 | 16.36 |
| 4.47 | 4.25 | 3.32 | 0.12 | 2.627 | 5.524 | 18.78 | 3.51 | 3.36 | 0.11 | 3.216 | 6.209 | 17.47 |
| 4.79 | 3.99 | 3.45 | 0.13 | 2.547 | 5.441 | 19.88 | 3.35 | 3.46 | 0.12 | 3.027 | 6.009 | 18.49 |
| 5.11 | 3.77 | 3.54 | 0.14 | 2.442 | 5.335 | 20.86 | 3.22 | 3.51 | 0.13 | 2.824 | 5.795 | 19.41 |
| 5.42 | 3.58 | 3.59 | 0.14 | 2.312 | 5.200 | 21.74 | 3.10 | 3.52 | 0.13 | 2.610 | 5.569 | 20.25 |
| 5.74 | 3.41 | 3.58 | 0.15 | 2.159 | 5.043 | 22.54 | 3.00 | 3.50 | 0.14 | 2.389 | 5.337 | 21.03 |
| 6.05 | 3.28 | 3.54 | 0.15 | 1.995 | 4.872 | 23.28 | 2.91 | 3.44 | 0.14 | 2.172 | 5.106 | 21.78 |
| 6.37 | 3.17 | 3.46 | 0.16 | 1.828 | 4.697 | 24.00 | 2.84 | 3.36 | 0.15 | 1.963 | 4.884 | 22.51 |
| 6.68 | 3.07 | 3.37 | 0.16 | 1.665 | 4.525 | 24.71 | 2.78 | 3.26 | 0.15 | 1.768 | 4.676 | 23.26 |
| 7.00 | 2.99 | 3.27 | 0.17 | 1.511 | 4.362 | 25.45 | 2.73 | 3.16 | 0.16 | 1.589 | 4.482 | 24.02 |



b=12.50 deg Bc=0.60 m Disp=69.78 kp LCG=1.12 m

| ~CAHI~ | | | | | | | ~SAVITSKY~ | | | | | |
|-------------|------------|---------------|------------|-----------------------|-----------------------|------------|------------|---------------|------------|-----------------------|-----------------------|------------|
| Vs [m/s] | Lamda - | Trim [deg] | D/W [%] | Cr 10 ³ | Ct 10 ³ | R [lbs] | Lamda - | Trim [deg] | D/W [%] | Cr 10 ³ | Ct 10 ³ | R [lbs] |
| 1.00 | 10.41 | 1.69 | 0.04 | 10.774 | 13.990 | 5.91 | 5.59 | 1.60 | 0.03 | 19.004 | 22.611 | 5.13 |
| 1.32 | 9.41 | 1.74 | 0.04 | 7.062 | 10.179 | 6.72 | 5.53 | 1.65 | 0.04 | 11.410 | 14.843 | 5.76 |
| 1.63 | 8.67 | 1.78 | 0.05 | 5.118 | 8.163 | 7.64 | 5.45 | 1.70 | 0.04 | 7.772 | 11.080 | 6.52 |
| 1.95 | 8.08 | 1.84 | 0.06 | 3.972 | 6.961 | 8.65 | 5.36 | 1.76 | 0.05 | 5.758 | 8.972 | 7.39 |
| 2.26 | 7.58 | 1.90 | 0.06 | 3.243 | 6.187 | 9.74 | 5.25 | 1.84 | 0.05 | 4.536 | 7.677 | 8.35 |
| 2.58 | 7.14 | 1.97 | 0.07 | 2.755 | 5.665 | 10.89 | 5.12 | 1.92 | 0.06 | 3.747 | 6.830 | 9.41 |
| 2.89 | 6.74 | 2.06 | 0.08 | 2.419 | 5.300 | 12.11 | 4.97 | 2.02 | 0.07 | 3.216 | 6.253 | 10.54 |
| 3.21 | 6.36 | 2.15 | 0.09 | 2.185 | 5.044 | 13.37 | 4.81 | 2.12 | 0.08 | 2.849 | 5.848 | 11.72 |
| 3.53 | 6.00 | 2.26 | 0.10 | 2.021 | 4.863 | 14.65 | 4.64 | 2.24 | 0.08 | 2.589 | 5.559 | 12.95 |
| 3.84 | 5.65 | 2.39 | 0.10 | 1.907 | 4.737 | 15.95 | 4.45 | 2.37 | 0.09 | 2.401 | 5.348 | 14.19 |
| 4.16 | 5.32 | 2.52 | 0.11 | 1.829 | 4.650 | 17.24 | 4.27 | 2.50 | 0.10 | 2.259 | 5.188 | 15.43 |
| 4.47 | 5.01 | 2.66 | 0.12 | 1.773 | 4.589 | 18.50 | 4.08 | 2.62 | 0.11 | 2.144 | 5.059 | 16.65 |
| 4.79 | 4.71 | 2.78 | 0.13 | 1.726 | 4.538 | 19.72 | 3.90 | 2.73 | 0.12 | 2.040 | 4.943 | 17.82 |
| 5.11 | 4.45 | 2.89 | 0.14 | 1.677 | 4.487 | 20.86 | 3.74 | 2.82 | 0.12 | 1.935 | 4.828 | 18.93 |
| 5.42 | 4.21 | 2.98 | 0.14 | 1.617 | 4.425 | 21.93 | 3.59 | 2.87 | 0.13 | 1.824 | 4.707 | 19.98 |
| 5.74 | 4.00 | 3.02 | 0.15 | 1.543 | 4.348 | 22.94 | 3.47 | 2.90 | 0.14 | 1.706 | 4.579 | 20.97 |
| 6.05 | 3.83 | 3.03 | 0.16 | 1.457 | 4.258 | 23.89 | 3.35 | 2.90 | 0.14 | 1.582 | 4.446 | 21.94 |
| 6.37 | 3.68 | 3.01 | 0.16 | 1.362 | 4.158 | 24.81 | 3.26 | 2.87 | 0.15 | 1.458 | 4.311 | 22.88 |
| 6.68 | 3.55 | 2.97 | 0.17 | 1.263 | 4.053 | 25.72 | 3.18 | 2.83 | 0.15 | 1.335 | 4.177 | 23.82 |
| 7.00 | 3.44 | 2.91 | 0.17 | 1.164 | 3.947 | 26.64 | 3.11 | 2.77 | 0.16 | 1.218 | 4.048 | 24.77 |



Simulation Info:

 27/06/2019 04:46:53 pm

Input Data:

 Ship Speed: from Vs1=1.00 m/s to Vs2=7.00 m/s (for 20 different Ship Speed values)

Ship Displacement: Disp=100.18 kp

Breadth at Chine: Bc=0.60 m

Deadrise Angle: b=12.50 deg

LCG: from LCG1=0.93 m to LCG2=1.12 m (for 3 different LCG values)

Fresh water properties at 23.90C:

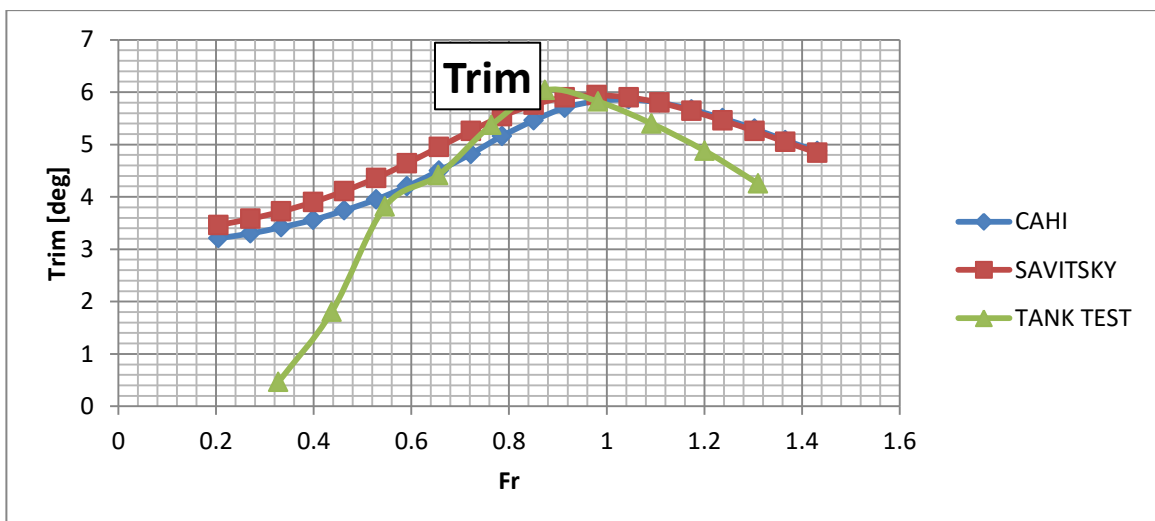
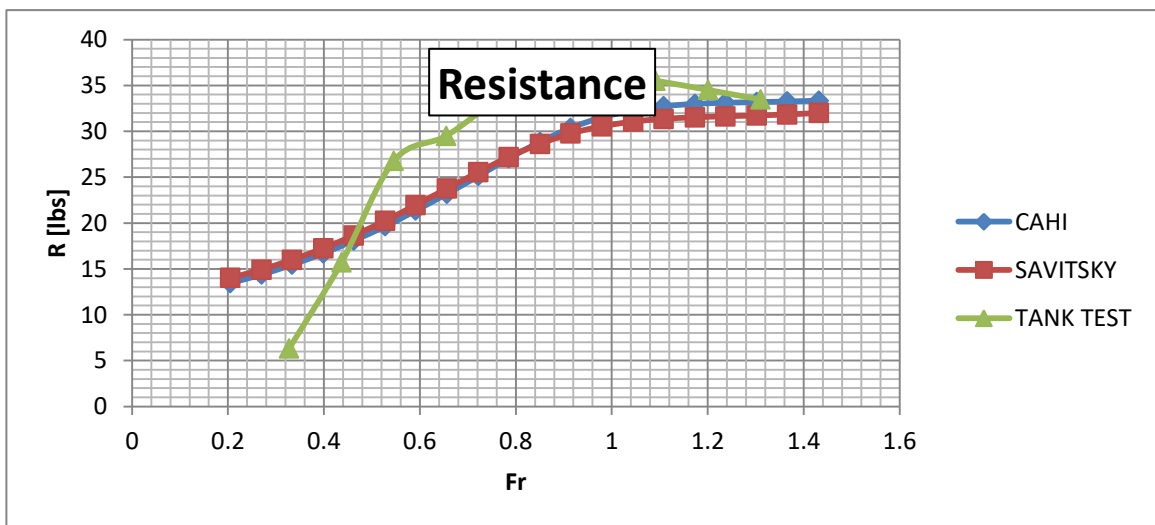
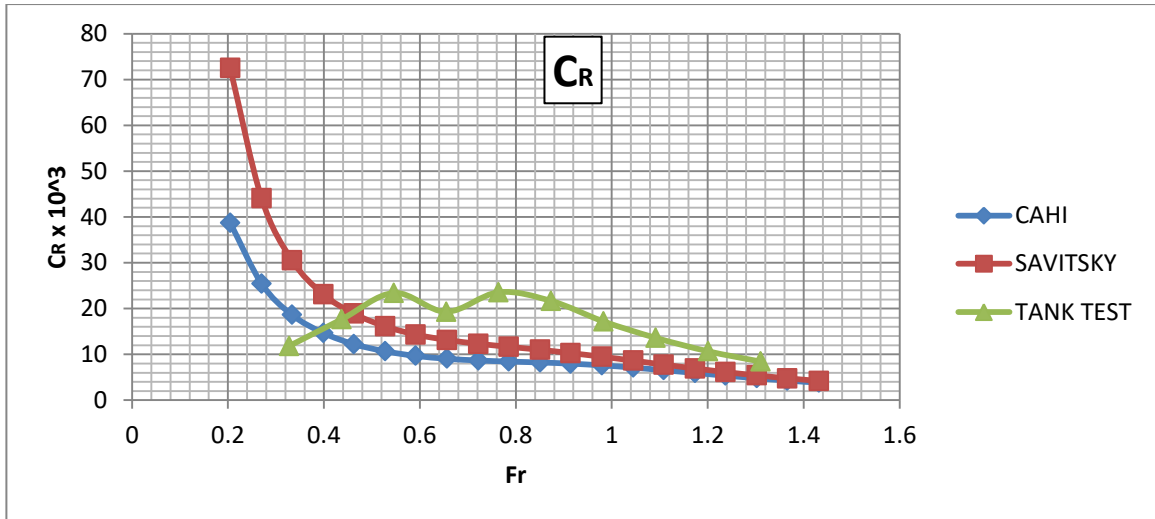
Density=997.22 kg/m³

Viscosity=0.91549*10⁻⁶ m²/s

Results:

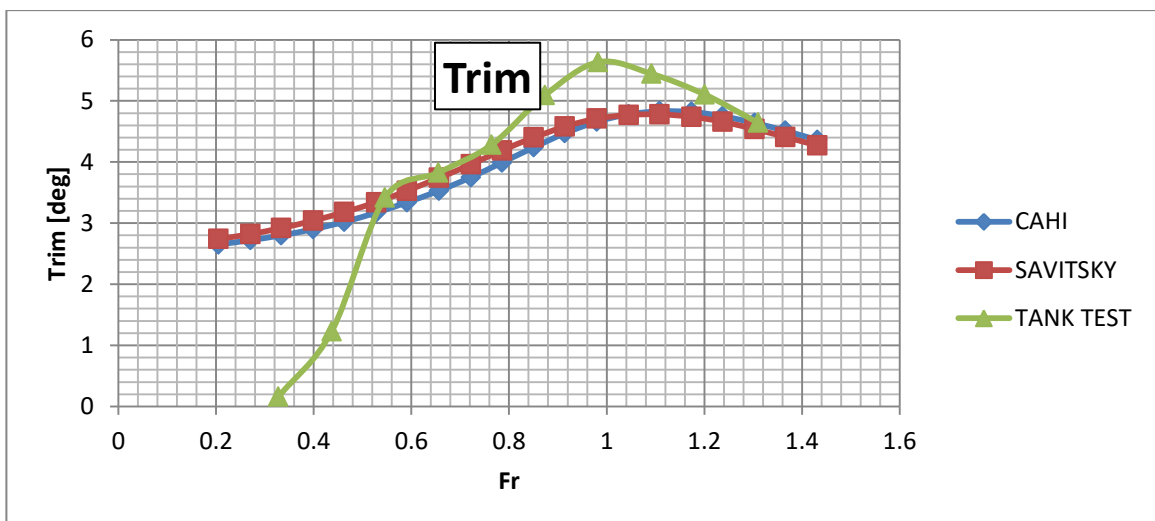
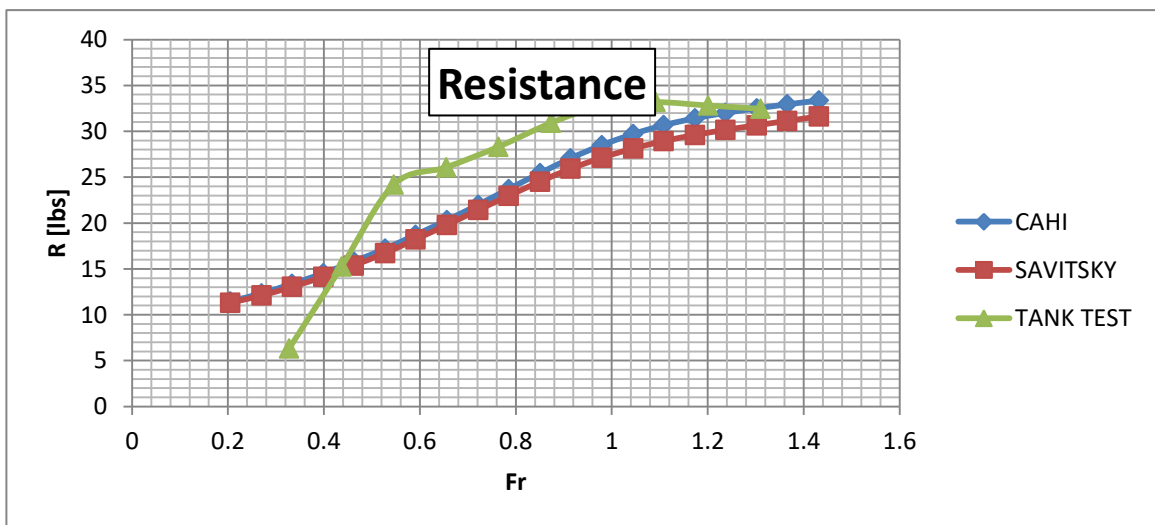
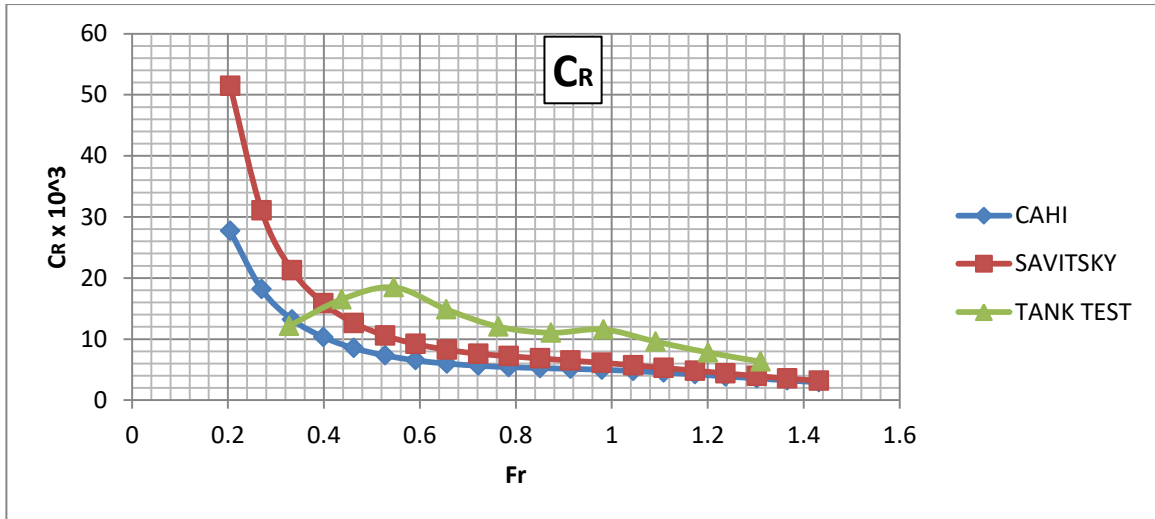
 b=12.50 deg Bc=0.60 m Disp=100.18 kp LCG=0.93 m

| ~CAHI~ | | | | | | | ~SAVITSKY~ | | | | | |
|--------|-------|-------|------|-----------------|-----------------|-------|------------|-------|------|-----------------|-----------------|-------|
| Vs | Lamda | Trim | D/W | Cr | Ct | R | Lamda | Trim | D/W | Cr | Ct | R |
| [m/s] | - | [deg] | [%] | 10 ³ | 10 ³ | [lbs] | - | [deg] | [%] | 10 ³ | 10 ³ | [lbs] |
| 1.00 | 7.95 | 3.21 | 0.06 | 38.735 | 42.115 | 13.46 | 4.59 | 3.46 | 0.06 | 72.534 | 76.285 | 14.03 |
| 1.32 | 7.20 | 3.30 | 0.07 | 25.457 | 28.730 | 14.38 | 4.51 | 3.58 | 0.07 | 44.095 | 47.665 | 14.92 |
| 1.63 | 6.63 | 3.42 | 0.07 | 18.628 | 21.824 | 15.46 | 4.42 | 3.72 | 0.07 | 30.538 | 33.981 | 16.00 |
| 1.95 | 6.17 | 3.56 | 0.08 | 14.681 | 17.818 | 16.70 | 4.30 | 3.90 | 0.08 | 23.105 | 26.454 | 17.25 |
| 2.26 | 5.76 | 3.74 | 0.08 | 12.239 | 15.332 | 18.09 | 4.12 | 4.11 | 0.08 | 18.898 | 22.184 | 18.66 |
| 2.58 | 5.39 | 3.95 | 0.09 | 10.677 | 13.736 | 19.64 | 3.95 | 4.36 | 0.09 | 16.124 | 19.357 | 20.24 |
| 2.89 | 5.03 | 4.20 | 0.10 | 9.674 | 12.708 | 21.35 | 3.77 | 4.64 | 0.10 | 14.334 | 17.529 | 21.96 |
| 3.21 | 4.70 | 4.50 | 0.10 | 9.047 | 12.064 | 23.19 | 3.57 | 4.95 | 0.11 | 13.150 | 16.318 | 23.76 |
| 3.53 | 4.37 | 4.82 | 0.11 | 8.671 | 11.677 | 25.12 | 3.37 | 5.26 | 0.12 | 12.320 | 15.468 | 25.55 |
| 3.84 | 4.07 | 5.16 | 0.12 | 8.437 | 11.437 | 27.05 | 3.17 | 5.54 | 0.12 | 11.651 | 14.786 | 27.21 |
| 4.16 | 3.79 | 5.46 | 0.13 | 8.238 | 11.235 | 28.85 | 2.99 | 5.76 | 0.13 | 11.002 | 14.126 | 28.64 |
| 4.47 | 3.54 | 5.70 | 0.14 | 7.978 | 10.973 | 30.37 | 2.83 | 5.90 | 0.13 | 10.287 | 13.401 | 29.76 |
| 4.79 | 3.33 | 5.83 | 0.14 | 7.603 | 10.595 | 31.52 | 2.70 | 5.94 | 0.14 | 9.488 | 12.591 | 30.55 |
| 5.11 | 3.16 | 5.86 | 0.15 | 7.113 | 10.100 | 32.28 | 2.60 | 5.90 | 0.14 | 8.633 | 11.722 | 31.06 |
| 5.42 | 3.01 | 5.80 | 0.15 | 6.545 | 9.526 | 32.74 | 2.52 | 5.80 | 0.14 | 7.764 | 10.838 | 31.36 |
| 5.74 | 2.89 | 5.67 | 0.15 | 5.947 | 8.919 | 32.99 | 2.45 | 5.64 | 0.14 | 6.923 | 9.980 | 31.53 |
| 6.05 | 2.80 | 5.50 | 0.15 | 5.355 | 8.317 | 33.11 | 2.40 | 5.46 | 0.14 | 6.136 | 9.176 | 31.64 |
| 6.37 | 2.71 | 5.30 | 0.15 | 4.794 | 7.746 | 33.18 | 2.36 | 5.26 | 0.14 | 5.420 | 8.441 | 31.73 |
| 6.68 | 2.64 | 5.08 | 0.15 | 4.279 | 7.218 | 33.25 | 2.33 | 5.05 | 0.14 | 4.779 | 7.782 | 31.84 |
| 7.00 | 2.58 | 4.87 | 0.15 | 3.813 | 6.741 | 33.34 | 2.30 | 4.84 | 0.14 | 4.213 | 7.197 | 32.00 |



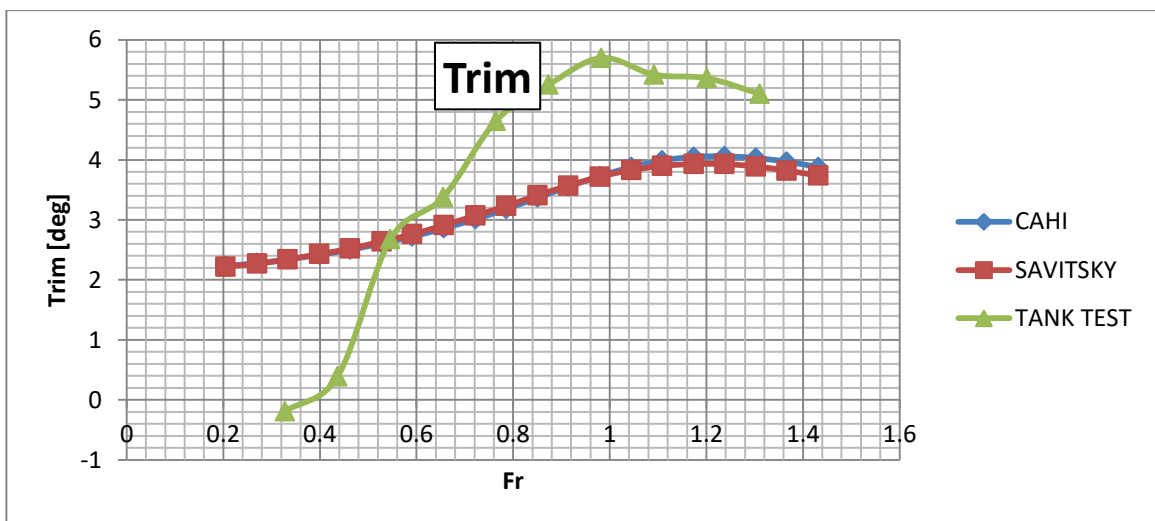
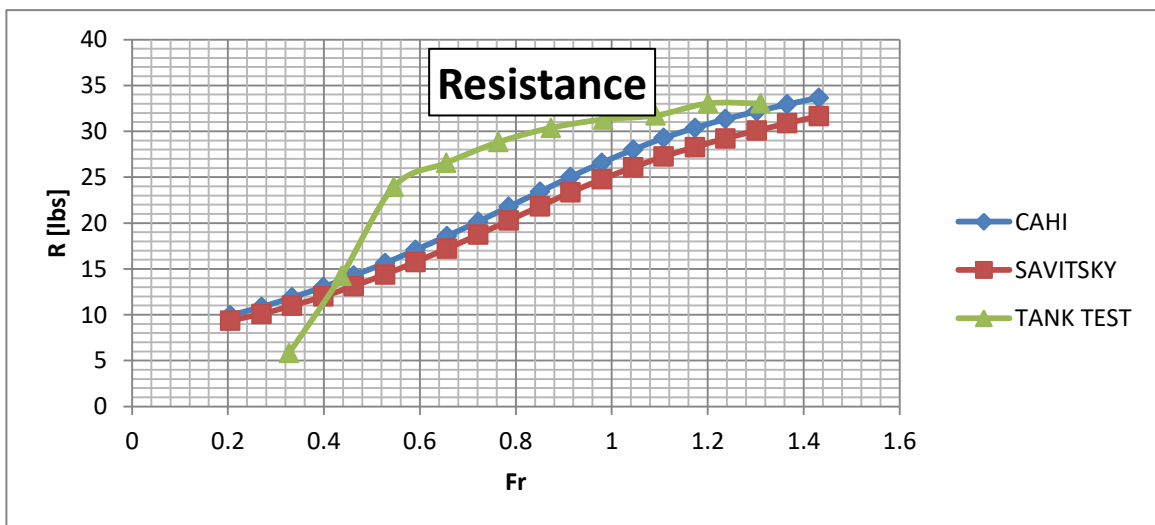
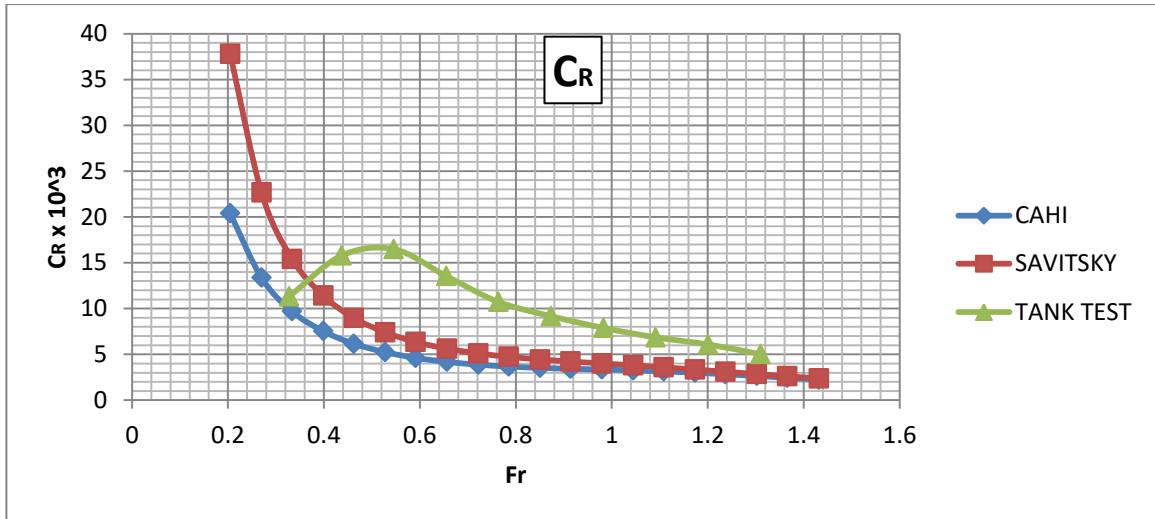
b=12.50 deg Bc=0.60 m Disp=100.18 kp LCG=1.02 m

| ~CAHI~ | | | | | | | ~SAVITSKY~ | | | | | |
|-------------|------------|---------------|------------|-----------------------|-----------------------|------------|------------|---------------|------------|-----------------------|-----------------------|------------|
| Vs [m/s] | Lamda - | Trim [deg] | D/W [%] | Cr 10 ³ | Ct 10 ³ | R [lbs] | Lamda - | Trim [deg] | D/W [%] | Cr 10 ³ | Ct 10 ³ | R [lbs] |
| 1.00 | 9.14 | 2.65 | 0.05 | 27.713 | 31.006 | 11.44 | 5.09 | 2.74 | 0.05 | 51.481 | 55.156 | 11.32 |
| 1.32 | 8.27 | 2.72 | 0.06 | 18.173 | 21.364 | 12.34 | 5.02 | 2.82 | 0.05 | 31.049 | 34.546 | 12.10 |
| 1.63 | 7.63 | 2.80 | 0.06 | 13.227 | 16.343 | 13.37 | 4.94 | 2.92 | 0.06 | 21.283 | 24.653 | 13.05 |
| 1.95 | 7.10 | 2.90 | 0.07 | 10.337 | 13.395 | 14.53 | 4.83 | 3.04 | 0.06 | 15.898 | 19.175 | 14.14 |
| 2.26 | 6.65 | 3.02 | 0.07 | 8.520 | 11.534 | 15.81 | 4.71 | 3.18 | 0.07 | 12.651 | 15.855 | 15.37 |
| 2.58 | 6.25 | 3.17 | 0.08 | 7.327 | 10.306 | 17.20 | 4.57 | 3.34 | 0.08 | 10.575 | 13.722 | 16.74 |
| 2.89 | 5.87 | 3.34 | 0.08 | 6.527 | 9.479 | 18.71 | 4.41 | 3.53 | 0.08 | 9.196 | 12.299 | 18.22 |
| 3.21 | 5.52 | 3.53 | 0.09 | 5.991 | 8.923 | 20.31 | 4.24 | 3.74 | 0.09 | 8.256 | 11.325 | 19.80 |
| 3.53 | 5.17 | 3.75 | 0.10 | 5.639 | 8.557 | 22.00 | 4.06 | 3.96 | 0.10 | 7.597 | 10.640 | 21.43 |
| 3.84 | 4.85 | 3.99 | 0.11 | 5.412 | 8.320 | 23.72 | 3.82 | 4.19 | 0.10 | 7.214 | 10.245 | 22.98 |
| 4.16 | 4.54 | 4.24 | 0.12 | 5.260 | 8.162 | 25.44 | 3.62 | 4.40 | 0.11 | 6.838 | 9.856 | 24.52 |
| 4.47 | 4.25 | 4.47 | 0.12 | 5.132 | 8.031 | 27.06 | 3.44 | 4.58 | 0.12 | 6.488 | 9.495 | 25.92 |
| 4.79 | 3.99 | 4.66 | 0.13 | 4.983 | 7.880 | 28.50 | 3.27 | 4.71 | 0.12 | 6.121 | 9.117 | 27.13 |
| 5.11 | 3.77 | 4.78 | 0.13 | 4.783 | 7.678 | 29.71 | 3.13 | 4.77 | 0.13 | 5.718 | 8.705 | 28.13 |
| 5.42 | 3.58 | 4.83 | 0.14 | 4.527 | 7.418 | 30.67 | 3.01 | 4.78 | 0.13 | 5.284 | 8.260 | 28.94 |
| 5.74 | 3.41 | 4.82 | 0.14 | 4.224 | 7.111 | 31.42 | 2.92 | 4.74 | 0.13 | 4.834 | 7.798 | 29.60 |
| 6.05 | 3.28 | 4.75 | 0.14 | 3.896 | 6.776 | 32.01 | 2.84 | 4.66 | 0.14 | 4.386 | 7.336 | 30.16 |
| 6.37 | 3.17 | 4.64 | 0.15 | 3.562 | 6.434 | 32.50 | 2.77 | 4.54 | 0.14 | 3.954 | 6.891 | 30.66 |
| 6.68 | 3.07 | 4.51 | 0.15 | 3.236 | 6.099 | 32.94 | 2.72 | 4.41 | 0.14 | 3.550 | 6.471 | 31.14 |
| 7.00 | 2.99 | 4.36 | 0.15 | 2.928 | 5.781 | 33.36 | 2.68 | 4.27 | 0.14 | 3.178 | 6.085 | 31.62 |



b=12.50 deg Bc=0.60 m Disp=100.18 kp LCG=1.12 m

| ~CAHI~ | | | | | | | ~SAVITSKY~ | | | | | |
|-------------|------------|---------------|------------|-----------------------|-----------------------|------------|------------|---------------|------------|-----------------------|-----------------------|------------|
| Vs [m/s] | Lamda - | Trim [deg] | D/W [%] | Cr 10 ³ | Ct 10 ³ | R [lbs] | Lamda - | Trim [deg] | D/W [%] | Cr 10 ³ | Ct 10 ³ | R [lbs] |
| 1.00 | 10.41 | 2.23 | 0.04 | 20.385 | 23.601 | 9.94 | 5.59 | 2.22 | 0.04 | 37.811 | 41.419 | 9.37 |
| 1.32 | 9.41 | 2.28 | 0.05 | 13.362 | 16.480 | 10.85 | 5.53 | 2.27 | 0.05 | 22.671 | 26.105 | 10.10 |
| 1.63 | 8.67 | 2.34 | 0.05 | 9.694 | 12.740 | 11.89 | 5.45 | 2.34 | 0.05 | 15.422 | 18.731 | 10.99 |
| 1.95 | 8.08 | 2.42 | 0.06 | 7.534 | 10.524 | 13.03 | 5.36 | 2.43 | 0.05 | 11.413 | 14.629 | 12.00 |
| 2.26 | 7.58 | 2.50 | 0.06 | 6.162 | 9.108 | 14.29 | 5.25 | 2.52 | 0.06 | 8.982 | 12.123 | 13.14 |
| 2.58 | 7.14 | 2.61 | 0.07 | 5.247 | 8.157 | 15.63 | 5.12 | 2.64 | 0.07 | 7.412 | 10.496 | 14.40 |
| 2.89 | 6.74 | 2.72 | 0.08 | 4.618 | 7.500 | 17.07 | 4.97 | 2.76 | 0.07 | 6.356 | 9.393 | 15.76 |
| 3.21 | 6.36 | 2.86 | 0.08 | 4.181 | 7.041 | 18.58 | 4.81 | 2.91 | 0.08 | 5.624 | 8.625 | 17.21 |
| 3.53 | 6.00 | 3.01 | 0.09 | 3.878 | 6.721 | 20.16 | 4.64 | 3.07 | 0.08 | 5.107 | 8.078 | 18.73 |
| 3.84 | 5.65 | 3.18 | 0.10 | 3.670 | 6.501 | 21.78 | 4.45 | 3.23 | 0.09 | 4.733 | 7.681 | 20.28 |
| 4.16 | 5.32 | 3.37 | 0.11 | 3.529 | 6.352 | 23.42 | 4.27 | 3.41 | 0.10 | 4.451 | 7.381 | 21.83 |
| 4.47 | 5.01 | 3.55 | 0.11 | 3.429 | 6.247 | 25.03 | 4.08 | 3.57 | 0.11 | 4.221 | 7.138 | 23.34 |
| 4.79 | 4.71 | 3.73 | 0.12 | 3.346 | 6.160 | 26.58 | 3.90 | 3.72 | 0.11 | 4.013 | 6.918 | 24.77 |
| 5.11 | 4.45 | 3.88 | 0.13 | 3.255 | 6.067 | 28.00 | 3.74 | 3.83 | 0.12 | 3.804 | 6.699 | 26.08 |
| 5.42 | 4.21 | 3.99 | 0.13 | 3.141 | 5.951 | 29.27 | 3.59 | 3.90 | 0.12 | 3.582 | 6.468 | 27.25 |
| 5.74 | 4.00 | 4.05 | 0.14 | 2.998 | 5.805 | 30.37 | 3.47 | 3.93 | 0.13 | 3.347 | 6.223 | 28.29 |
| 6.05 | 3.83 | 4.06 | 0.14 | 2.828 | 5.631 | 31.33 | 3.35 | 3.93 | 0.13 | 3.102 | 5.967 | 29.23 |
| 6.37 | 3.68 | 4.03 | 0.15 | 2.640 | 5.438 | 32.17 | 3.26 | 3.89 | 0.14 | 2.855 | 5.709 | 30.08 |
| 6.68 | 3.55 | 3.97 | 0.15 | 2.444 | 5.236 | 32.94 | 3.18 | 3.82 | 0.14 | 2.612 | 5.455 | 30.88 |
| 7.00 | 3.44 | 3.88 | 0.15 | 2.247 | 5.032 | 33.66 | 3.11 | 3.74 | 0.14 | 2.379 | 5.211 | 31.66 |



Simulation Info:

 27/06/2019 04:47:27 pm

Input Data:

 Ship Speed: from Vs1=1.00 m/s to Vs2=7.00 m/s (for 20 different Ship Speed values)

Ship Displacement: Disp=33.44 kp

Breadth at Chine: Bc=0.44 m

Deadrise Angle: b=12.50 deg

LCG: from LCG1=0.93 m to LCG2=1.12 m (for 3 different LCG values)

Fresh water properties at 23.30C:

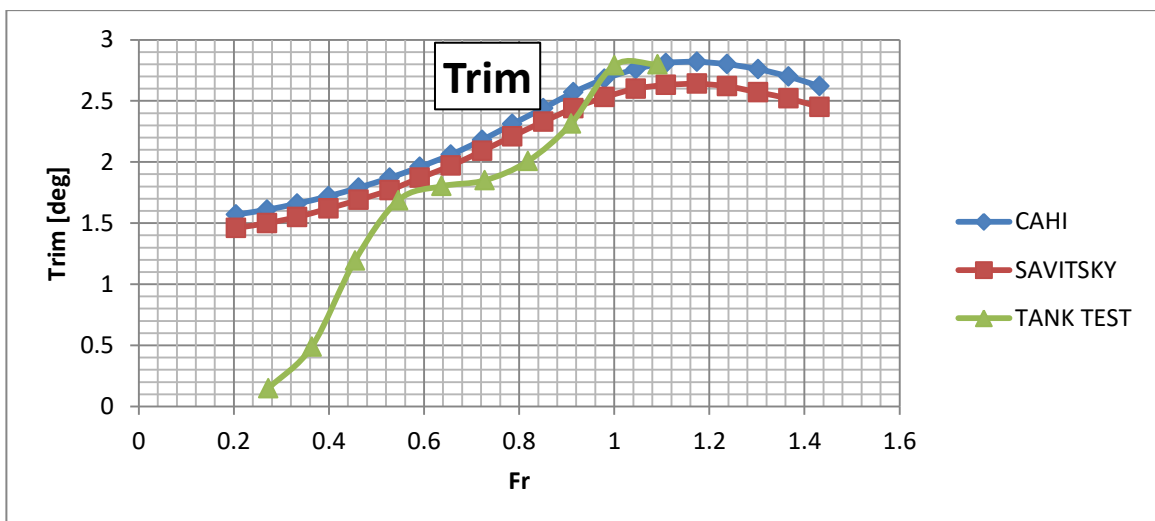
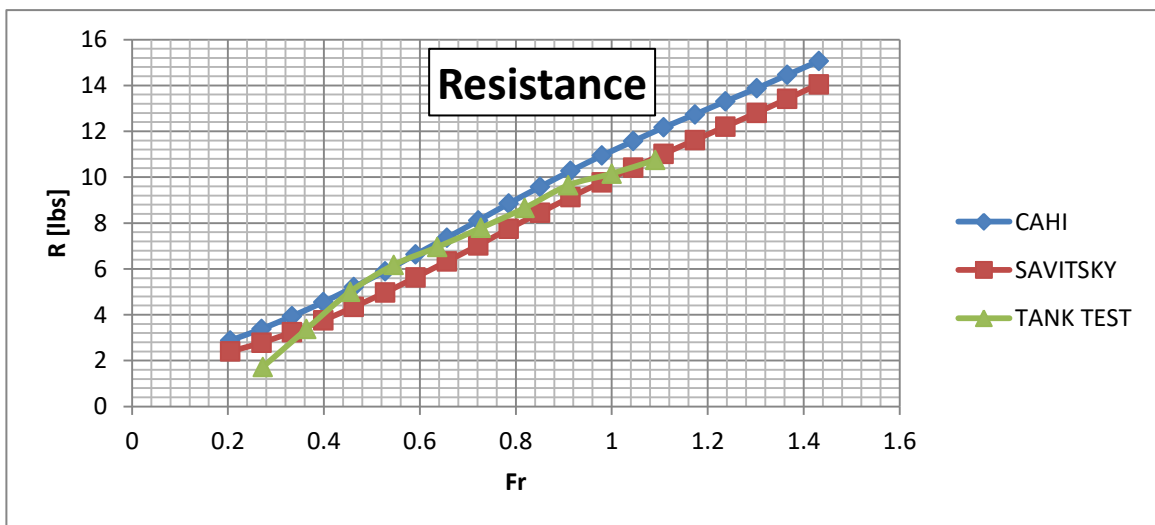
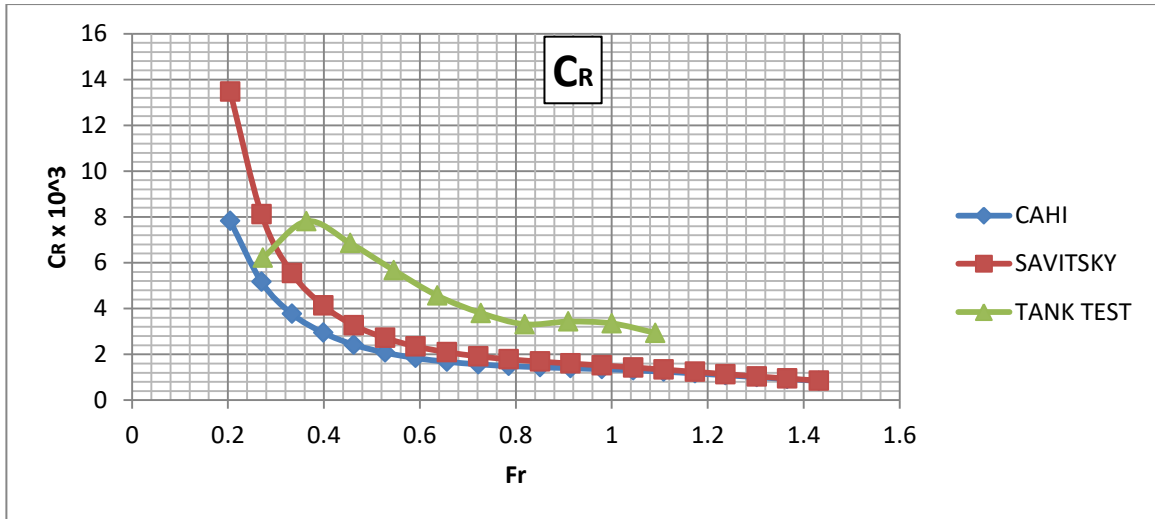
Density=997.34 kg/m³

Viscosity=0.92825*10⁻⁶ m²/s

Results:

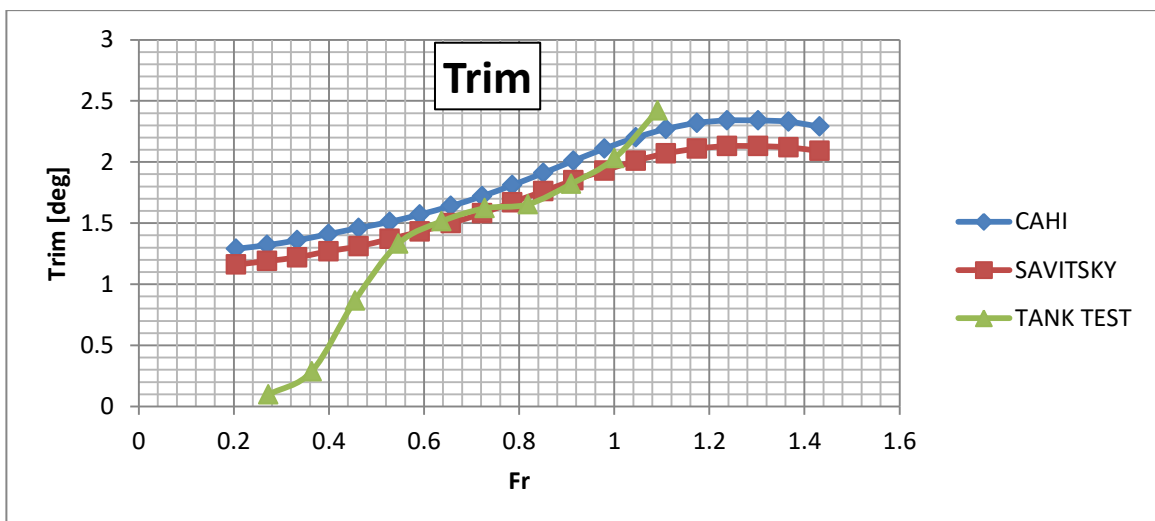
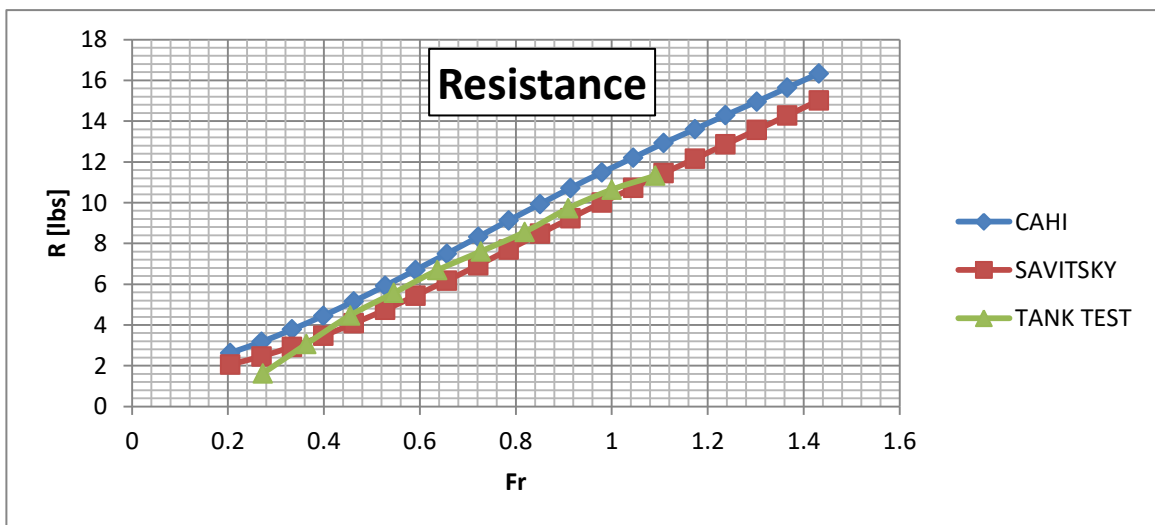
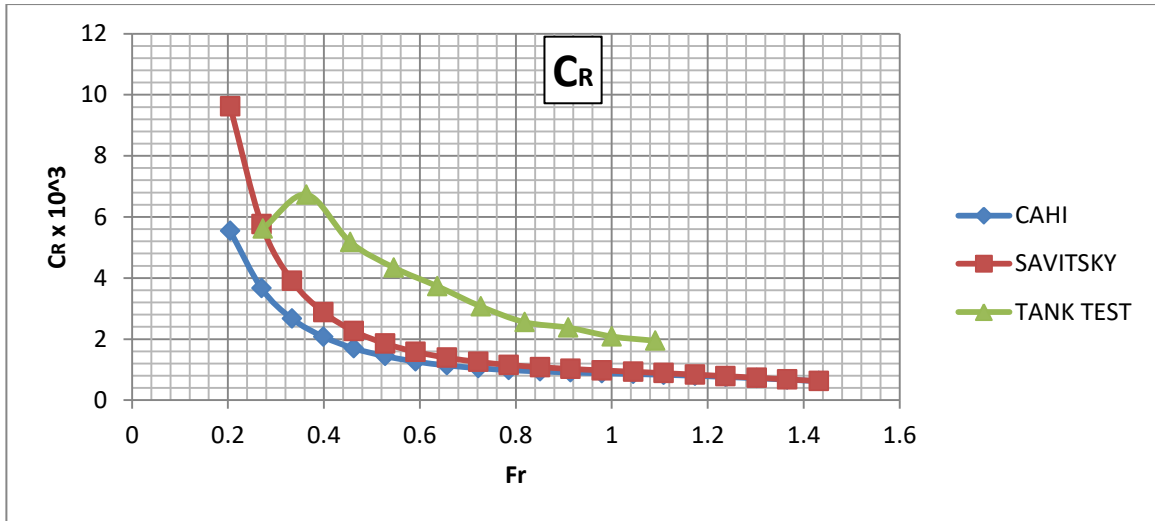
 b=12.50 deg Bc=0.44 m Disp=33.44 kp LCG=0.93 m

| ~CAHI~ | | | | | | | ~SAVITSKY~ | | | | | |
|--------|-------|-------|------|-----------------|-----------------|-------|------------|-------|------|-----------------|-----------------|-------|
| Vs | Lamda | Trim | D/W | Cr | Ct | R | Lamda | Trim | D/W | Cr | Ct | R |
| [m/s] | - | [deg] | [%] | 10 ³ | 10 ³ | [lbs] | - | [deg] | [%] | 10 ³ | 10 ³ | [lbs] |
| 1.00 | 11.47 | 1.57 | 0.04 | 7.827 | 11.169 | 2.88 | 6.21 | 1.46 | 0.03 | 13.475 | 17.228 | 2.40 |
| 1.32 | 10.35 | 1.61 | 0.05 | 5.163 | 8.402 | 3.38 | 6.13 | 1.50 | 0.04 | 8.116 | 11.684 | 2.78 |
| 1.63 | 9.51 | 1.66 | 0.05 | 3.767 | 6.931 | 3.94 | 6.04 | 1.55 | 0.04 | 5.549 | 8.987 | 3.24 |
| 1.95 | 8.85 | 1.72 | 0.06 | 2.945 | 6.051 | 4.55 | 5.92 | 1.62 | 0.05 | 4.131 | 7.469 | 3.76 |
| 2.26 | 8.28 | 1.79 | 0.07 | 2.423 | 5.484 | 5.21 | 5.79 | 1.69 | 0.06 | 3.271 | 6.534 | 4.34 |
| 2.58 | 7.77 | 1.87 | 0.08 | 2.076 | 5.101 | 5.90 | 5.63 | 1.77 | 0.07 | 2.719 | 5.921 | 4.97 |
| 2.89 | 7.30 | 1.96 | 0.09 | 1.840 | 4.837 | 6.63 | 5.45 | 1.87 | 0.08 | 2.349 | 5.504 | 5.63 |
| 3.21 | 6.86 | 2.06 | 0.10 | 1.678 | 4.654 | 7.36 | 5.26 | 1.97 | 0.09 | 2.095 | 5.212 | 6.33 |
| 3.53 | 6.45 | 2.18 | 0.11 | 1.567 | 4.527 | 8.11 | 5.06 | 2.09 | 0.10 | 1.916 | 5.004 | 7.03 |
| 3.84 | 6.05 | 2.31 | 0.12 | 1.491 | 4.441 | 8.85 | 4.84 | 2.21 | 0.11 | 1.786 | 4.852 | 7.75 |
| 4.16 | 5.67 | 2.44 | 0.13 | 1.439 | 4.381 | 9.58 | 4.62 | 2.33 | 0.11 | 1.686 | 4.734 | 8.45 |
| 4.47 | 5.32 | 2.57 | 0.14 | 1.397 | 4.335 | 10.27 | 4.41 | 2.44 | 0.12 | 1.600 | 4.634 | 9.13 |
| 4.79 | 5.00 | 2.68 | 0.15 | 1.355 | 4.290 | 10.94 | 4.22 | 2.53 | 0.13 | 1.517 | 4.539 | 9.78 |
| 5.11 | 4.72 | 2.76 | 0.16 | 1.305 | 4.237 | 11.57 | 4.04 | 2.60 | 0.14 | 1.430 | 4.441 | 10.41 |
| 5.42 | 4.47 | 2.81 | 0.17 | 1.243 | 4.172 | 12.17 | 3.88 | 2.63 | 0.15 | 1.336 | 4.337 | 11.02 |
| 5.74 | 4.26 | 2.82 | 0.17 | 1.169 | 4.094 | 12.74 | 3.75 | 2.64 | 0.16 | 1.238 | 4.228 | 11.62 |
| 6.05 | 4.09 | 2.80 | 0.18 | 1.089 | 4.008 | 13.31 | 3.64 | 2.62 | 0.17 | 1.138 | 4.116 | 12.21 |
| 6.37 | 3.94 | 2.76 | 0.19 | 1.005 | 3.917 | 13.88 | 3.54 | 2.57 | 0.17 | 1.040 | 4.005 | 12.81 |
| 6.68 | 3.81 | 2.70 | 0.20 | 0.922 | 3.826 | 14.46 | 3.46 | 2.52 | 0.18 | 0.945 | 3.898 | 13.42 |
| 7.00 | 3.71 | 2.62 | 0.20 | 0.842 | 3.737 | 15.06 | 3.39 | 2.45 | 0.19 | 0.856 | 3.795 | 14.05 |



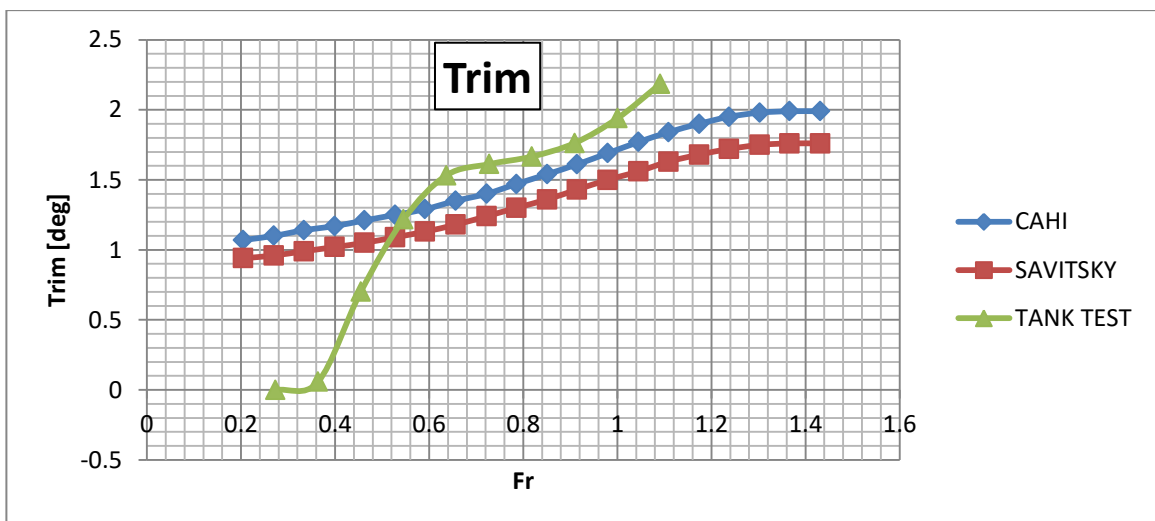
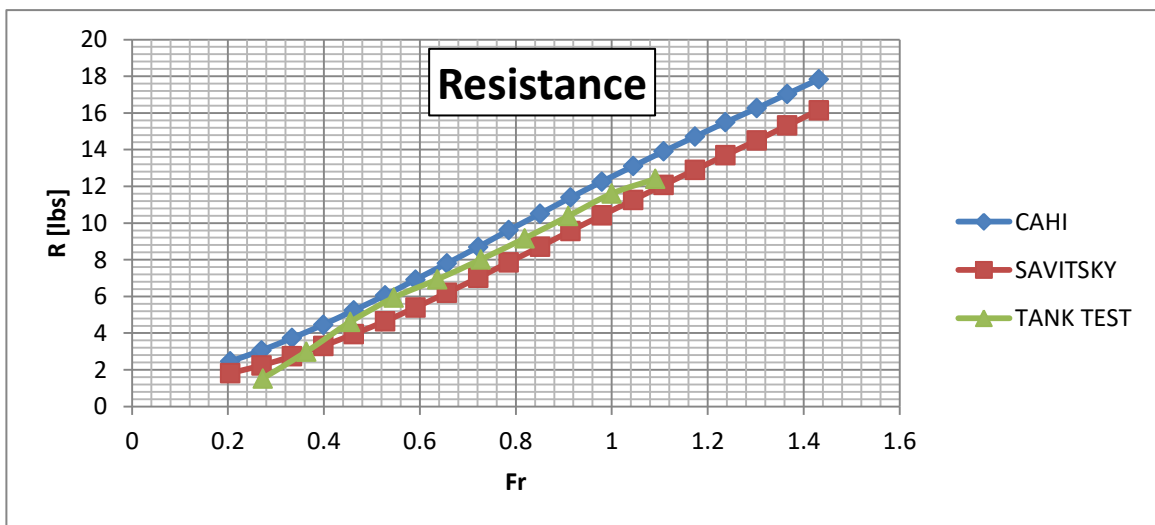
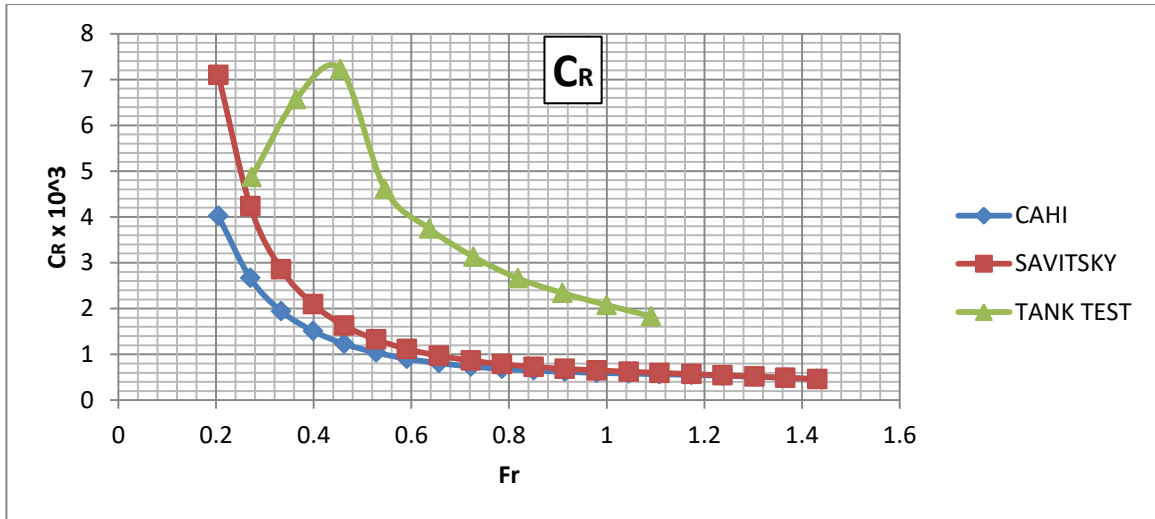
b=12.50 deg Bc=0.44 m Disp=33.44 kp LCG=1.02 m

| ~CAHI~ | | | | | | | ~SAVITSKY~ | | | | | |
|-------------|------------|---------------|------------|-----------------------|-----------------------|------------|------------|---------------|------------|-----------------------|-----------------------|------------|
| Vs [m/s] | Lamda - | Trim [deg] | D/W [%] | Cr 10 ³ | Ct 10 ³ | R [lbs] | Lamda - | Trim [deg] | D/W [%] | Cr 10 ³ | Ct 10 ³ | R [lbs] |
| 1.00 | 13.28 | 1.29 | 0.04 | 5.542 | 8.796 | 2.63 | 6.88 | 1.16 | 0.03 | 9.626 | 13.304 | 2.06 |
| 1.32 | 11.96 | 1.32 | 0.04 | 3.663 | 6.818 | 3.17 | 6.81 | 1.19 | 0.03 | 5.765 | 9.263 | 2.46 |
| 1.63 | 11.00 | 1.36 | 0.05 | 2.669 | 5.752 | 3.78 | 6.73 | 1.22 | 0.04 | 3.913 | 7.282 | 2.93 |
| 1.95 | 10.24 | 1.41 | 0.06 | 2.078 | 5.105 | 4.45 | 6.62 | 1.27 | 0.05 | 2.886 | 6.157 | 3.47 |
| 2.26 | 9.59 | 1.46 | 0.07 | 1.698 | 4.681 | 5.16 | 6.50 | 1.31 | 0.06 | 2.262 | 5.456 | 4.08 |
| 2.58 | 9.03 | 1.51 | 0.08 | 1.443 | 4.389 | 5.92 | 6.36 | 1.37 | 0.06 | 1.856 | 4.989 | 4.74 |
| 2.89 | 8.52 | 1.57 | 0.09 | 1.265 | 4.183 | 6.70 | 6.20 | 1.43 | 0.07 | 1.582 | 4.665 | 5.44 |
| 3.21 | 8.05 | 1.64 | 0.10 | 1.139 | 4.034 | 7.50 | 6.02 | 1.50 | 0.08 | 1.390 | 4.434 | 6.18 |
| 3.53 | 7.60 | 1.72 | 0.11 | 1.049 | 3.926 | 8.32 | 5.83 | 1.58 | 0.09 | 1.254 | 4.265 | 6.93 |
| 3.84 | 7.17 | 1.81 | 0.12 | 0.986 | 3.849 | 9.13 | 5.62 | 1.67 | 0.10 | 1.154 | 4.140 | 7.70 |
| 4.16 | 6.77 | 1.91 | 0.13 | 0.941 | 3.794 | 9.93 | 5.41 | 1.76 | 0.11 | 1.081 | 4.046 | 8.48 |
| 4.47 | 6.38 | 2.01 | 0.15 | 0.908 | 3.755 | 10.72 | 5.19 | 1.85 | 0.13 | 1.024 | 3.972 | 9.24 |
| 4.79 | 6.01 | 2.11 | 0.16 | 0.882 | 3.725 | 11.48 | 4.98 | 1.93 | 0.14 | 0.976 | 3.911 | 10.00 |
| 5.11 | 5.67 | 2.20 | 0.17 | 0.858 | 3.699 | 12.21 | 4.77 | 2.01 | 0.15 | 0.931 | 3.856 | 10.73 |
| 5.42 | 5.37 | 2.27 | 0.18 | 0.831 | 3.669 | 12.92 | 4.59 | 2.07 | 0.16 | 0.886 | 3.801 | 11.45 |
| 5.74 | 5.10 | 2.32 | 0.18 | 0.799 | 3.635 | 13.61 | 4.42 | 2.11 | 0.16 | 0.838 | 3.744 | 12.16 |
| 6.05 | 4.87 | 2.34 | 0.19 | 0.761 | 3.593 | 14.29 | 4.27 | 2.13 | 0.17 | 0.788 | 3.684 | 12.86 |
| 6.37 | 4.67 | 2.34 | 0.20 | 0.718 | 3.546 | 14.96 | 4.14 | 2.13 | 0.18 | 0.735 | 3.622 | 13.57 |
| 6.68 | 4.50 | 2.33 | 0.21 | 0.672 | 3.495 | 15.64 | 4.02 | 2.12 | 0.19 | 0.681 | 3.558 | 14.28 |
| 7.00 | 4.35 | 2.29 | 0.22 | 0.624 | 3.441 | 16.34 | 3.93 | 2.09 | 0.20 | 0.628 | 3.494 | 15.01 |



b=12.50 deg Bc=0.44 m Disp=33.44 kp LCG=1.12 m

| ~CAHI~ | | | | | | | ~SAVITSKY~ | | | | | |
|--------|-------|-------|------|-----------------|-----------------|-------|------------|-------|------|-----------------|-----------------|-------|
| Vs | Lamda | Trim | D/W | Cr | Ct | R | Lamda | Trim | D/W | Cr | Ct | R |
| [m/s] | - | [deg] | [%] | 10 ³ | 10 ³ | [lbs] | - | [deg] | [%] | 10 ³ | 10 ³ | [lbs] |
| 1.00 | 15.20 | 1.07 | 0.03 | 4.021 | 7.197 | 2.46 | 7.55 | 0.94 | 0.02 | 7.102 | 10.714 | 1.82 |
| 1.32 | 13.67 | 1.10 | 0.04 | 2.667 | 5.748 | 3.06 | 7.49 | 0.96 | 0.03 | 4.235 | 7.671 | 2.24 |
| 1.63 | 12.57 | 1.14 | 0.05 | 1.944 | 4.956 | 3.73 | 7.41 | 0.99 | 0.04 | 2.859 | 6.168 | 2.74 |
| 1.95 | 11.70 | 1.17 | 0.06 | 1.510 | 4.468 | 4.46 | 7.32 | 1.02 | 0.04 | 2.095 | 5.307 | 3.31 |
| 2.26 | 10.98 | 1.21 | 0.07 | 1.230 | 4.144 | 5.24 | 7.20 | 1.05 | 0.05 | 1.628 | 4.764 | 3.95 |
| 2.58 | 10.35 | 1.25 | 0.08 | 1.039 | 3.917 | 6.06 | 7.08 | 1.09 | 0.06 | 1.324 | 4.398 | 4.65 |
| 2.89 | 9.79 | 1.29 | 0.09 | 0.904 | 3.753 | 6.92 | 6.93 | 1.13 | 0.07 | 1.117 | 4.140 | 5.40 |
| 3.21 | 9.28 | 1.35 | 0.11 | 0.807 | 3.632 | 7.80 | 6.77 | 1.18 | 0.08 | 0.970 | 3.952 | 6.20 |
| 3.53 | 8.80 | 1.40 | 0.12 | 0.736 | 3.542 | 8.70 | 6.59 | 1.24 | 0.10 | 0.864 | 3.812 | 7.02 |
| 3.84 | 8.34 | 1.47 | 0.13 | 0.684 | 3.475 | 9.61 | 6.40 | 1.30 | 0.11 | 0.787 | 3.706 | 7.86 |
| 4.16 | 7.91 | 1.54 | 0.14 | 0.646 | 3.425 | 10.51 | 6.19 | 1.36 | 0.12 | 0.729 | 3.625 | 8.71 |
| 4.47 | 7.49 | 1.61 | 0.15 | 0.618 | 3.389 | 11.39 | 5.98 | 1.43 | 0.13 | 0.685 | 3.563 | 9.57 |
| 4.79 | 7.09 | 1.69 | 0.17 | 0.597 | 3.362 | 12.26 | 5.76 | 1.50 | 0.14 | 0.651 | 3.513 | 10.42 |
| 5.11 | 6.71 | 1.77 | 0.18 | 0.581 | 3.342 | 13.10 | 5.55 | 1.56 | 0.15 | 0.622 | 3.472 | 11.26 |
| 5.42 | 6.36 | 1.84 | 0.19 | 0.566 | 3.324 | 13.91 | 5.34 | 1.63 | 0.16 | 0.596 | 3.436 | 12.08 |
| 5.74 | 6.04 | 1.90 | 0.20 | 0.551 | 3.307 | 14.71 | 5.14 | 1.68 | 0.17 | 0.571 | 3.402 | 12.90 |
| 6.05 | 5.75 | 1.95 | 0.21 | 0.533 | 3.287 | 15.49 | 4.96 | 1.72 | 0.19 | 0.545 | 3.368 | 13.70 |
| 6.37 | 5.50 | 1.98 | 0.22 | 0.512 | 3.263 | 16.26 | 4.79 | 1.75 | 0.20 | 0.518 | 3.332 | 14.51 |
| 6.68 | 5.27 | 1.99 | 0.23 | 0.488 | 3.236 | 17.04 | 4.65 | 1.76 | 0.21 | 0.489 | 3.295 | 15.32 |
| 7.00 | 5.08 | 1.99 | 0.24 | 0.462 | 3.206 | 17.83 | 4.52 | 1.76 | 0.22 | 0.459 | 3.257 | 16.15 |



Simulation Info:

 27/06/2019 04:47:48 pm

Input Data:

 Ship Speed: from Vs1=1.00 m/s to Vs2=7.00 m/s (for 20 different Ship Speed values)

Ship Displacement: Disp=44.72 kp

Breadth at Chine: Bc=0.44 m

Deadrise Angle: b=12.50 deg

LCG: from LCG1=0.93 m to LCG2=1.12 m (for 3 different LCG values)

Fresh water properties at 23.30C:

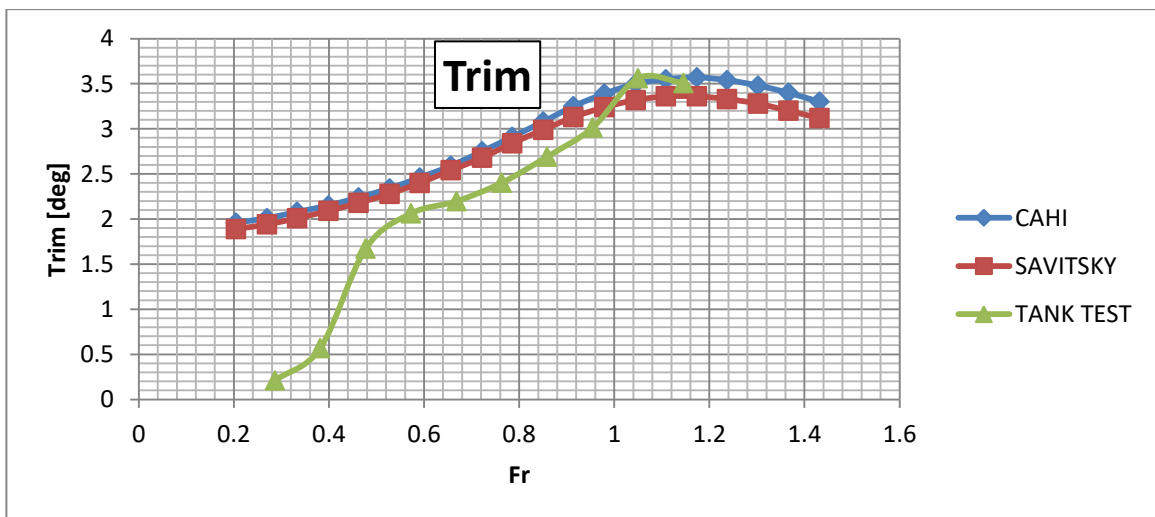
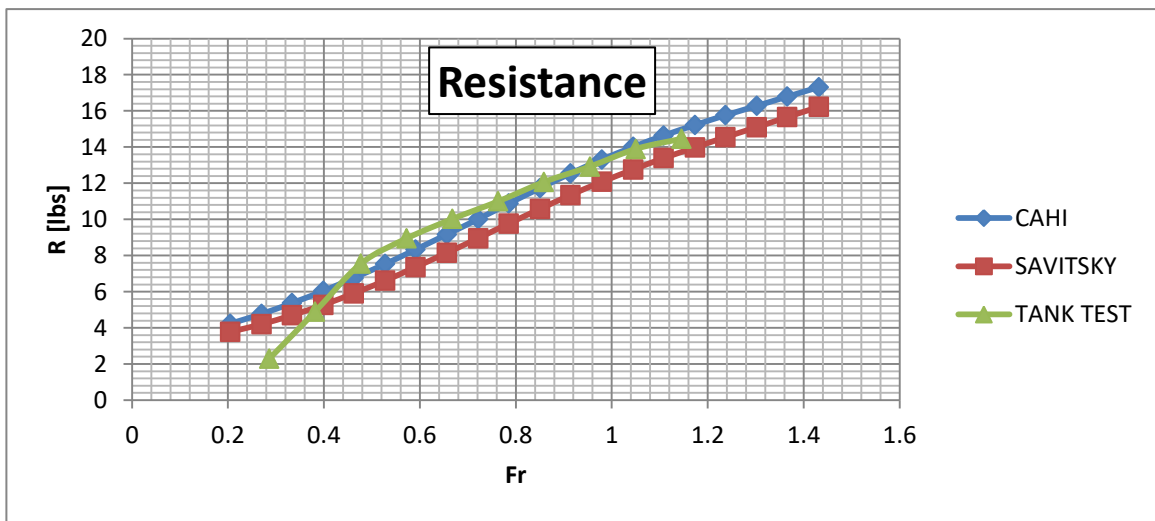
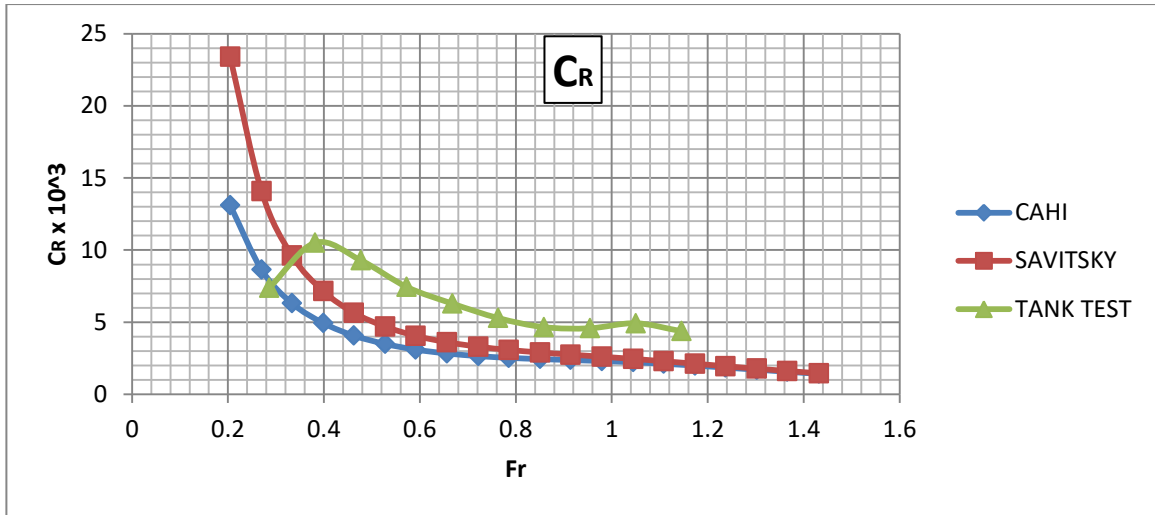
Density=997.34 kg/m³

Viscosity=0.92825*10⁻⁶ m²/s

Results:

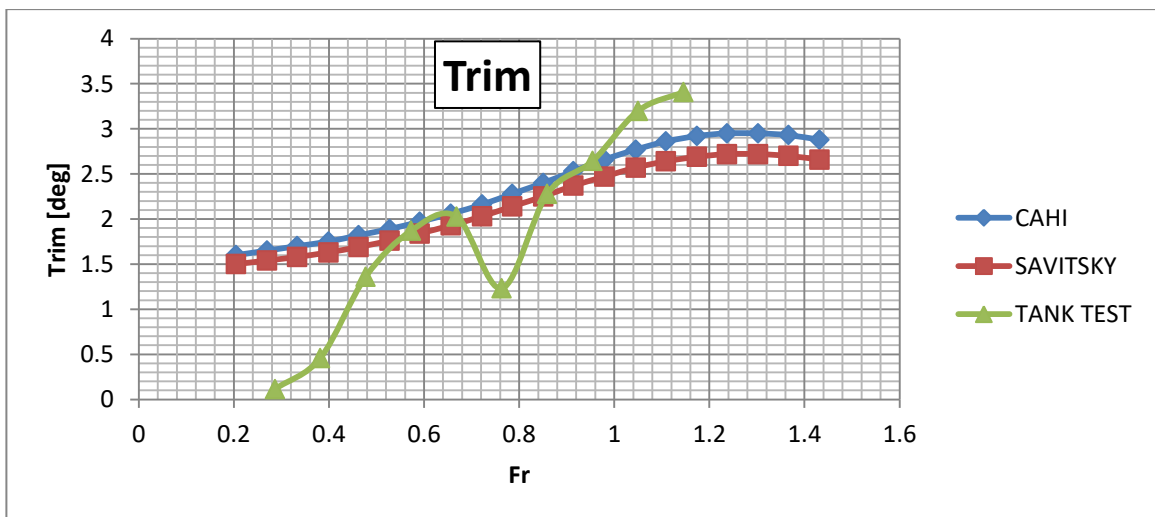
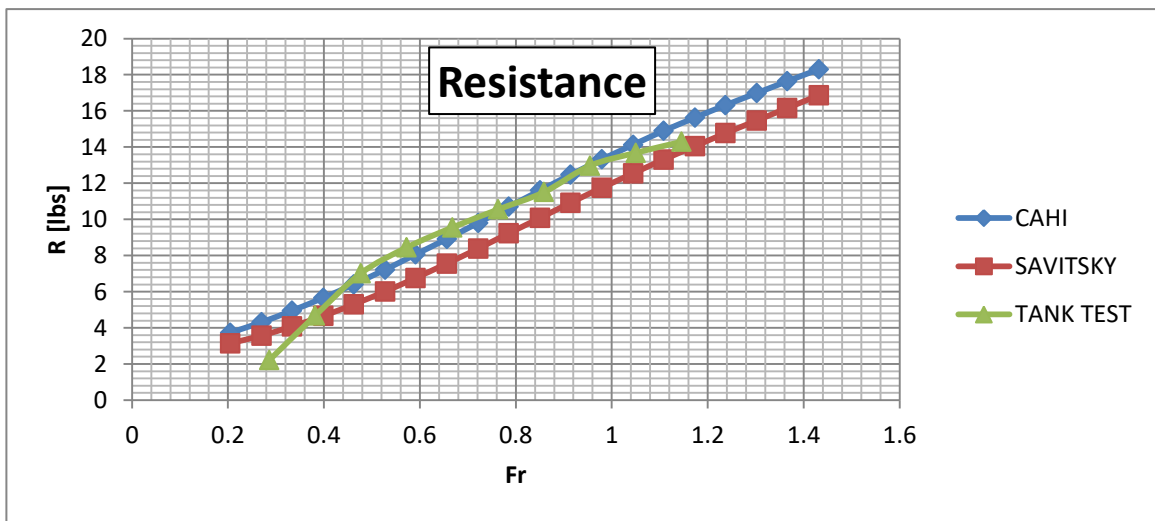
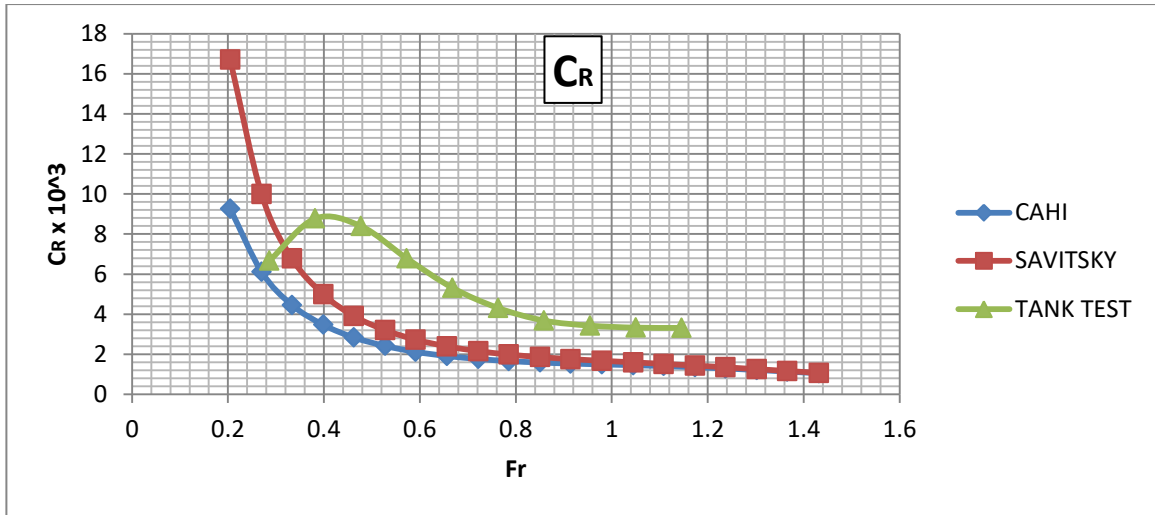
 b=12.50 deg Bc=0.44 m Disp=44.72 kp LCG=0.93 m

| ~CAHI~ | | | | | | | ~SAVITSKY~ | | | | | |
|--------|-------|-------|------|-----------------|-----------------|-------|------------|-------|------|-----------------|-----------------|-------|
| Vs | Lamda | Trim | D/W | Cr | Ct | R | Lamda | Trim | D/W | Cr | Ct | R |
| [m/s] | - | [deg] | [%] | 10 ³ | 10 ³ | [lbs] | - | [deg] | [%] | 10 ³ | 10 ³ | [lbs] |
| 1.00 | 11.47 | 1.96 | 0.04 | 13.111 | 16.453 | 4.23 | 6.21 | 1.89 | 0.04 | 23.407 | 27.160 | 3.78 |
| 1.32 | 10.35 | 2.01 | 0.05 | 8.646 | 11.886 | 4.77 | 6.13 | 1.94 | 0.04 | 14.081 | 17.650 | 4.20 |
| 1.63 | 9.51 | 2.08 | 0.05 | 6.312 | 9.477 | 5.37 | 6.04 | 2.01 | 0.05 | 9.617 | 13.055 | 4.70 |
| 1.95 | 8.85 | 2.15 | 0.06 | 4.939 | 8.046 | 6.04 | 5.92 | 2.09 | 0.05 | 7.151 | 10.491 | 5.27 |
| 2.26 | 8.28 | 2.24 | 0.07 | 4.070 | 7.131 | 6.76 | 5.79 | 2.18 | 0.06 | 5.658 | 8.921 | 5.91 |
| 2.58 | 7.77 | 2.34 | 0.08 | 3.493 | 6.519 | 7.53 | 5.63 | 2.28 | 0.07 | 4.698 | 7.901 | 6.61 |
| 2.89 | 7.30 | 2.46 | 0.08 | 3.101 | 6.099 | 8.33 | 5.45 | 2.40 | 0.07 | 4.056 | 7.211 | 7.36 |
| 3.21 | 6.86 | 2.59 | 0.09 | 2.833 | 5.810 | 9.17 | 5.26 | 2.54 | 0.08 | 3.614 | 6.732 | 8.15 |
| 3.53 | 6.45 | 2.75 | 0.10 | 2.651 | 5.612 | 10.02 | 5.06 | 2.68 | 0.09 | 3.303 | 6.392 | 8.96 |
| 3.84 | 6.05 | 2.91 | 0.11 | 2.529 | 5.479 | 10.88 | 4.84 | 2.84 | 0.10 | 3.077 | 6.144 | 9.77 |
| 4.16 | 5.67 | 3.08 | 0.12 | 2.445 | 5.388 | 11.73 | 4.62 | 2.99 | 0.11 | 2.903 | 5.952 | 10.58 |
| 4.47 | 5.32 | 3.25 | 0.13 | 2.378 | 5.317 | 12.54 | 4.41 | 3.13 | 0.12 | 2.753 | 5.788 | 11.35 |
| 4.79 | 5.00 | 3.39 | 0.13 | 2.309 | 5.245 | 13.31 | 4.22 | 3.24 | 0.12 | 2.608 | 5.631 | 12.08 |
| 5.11 | 4.72 | 3.50 | 0.14 | 2.224 | 5.158 | 14.01 | 4.04 | 3.32 | 0.13 | 2.456 | 5.469 | 12.76 |
| 5.42 | 4.47 | 3.55 | 0.15 | 2.118 | 5.049 | 14.64 | 3.88 | 3.36 | 0.14 | 2.294 | 5.296 | 13.39 |
| 5.74 | 4.26 | 3.57 | 0.15 | 1.992 | 4.918 | 15.22 | 3.75 | 3.36 | 0.14 | 2.123 | 5.114 | 13.98 |
| 6.05 | 4.09 | 3.54 | 0.16 | 1.852 | 4.773 | 15.76 | 3.64 | 3.33 | 0.15 | 1.950 | 4.929 | 14.55 |
| 6.37 | 3.94 | 3.48 | 0.17 | 1.707 | 4.620 | 16.28 | 3.54 | 3.28 | 0.15 | 1.780 | 4.746 | 15.10 |
| 6.68 | 3.81 | 3.40 | 0.17 | 1.562 | 4.468 | 16.79 | 3.46 | 3.20 | 0.16 | 1.616 | 4.569 | 15.66 |
| 7.00 | 3.71 | 3.30 | 0.18 | 1.423 | 4.320 | 17.31 | 3.39 | 3.12 | 0.16 | 1.463 | 4.403 | 16.22 |



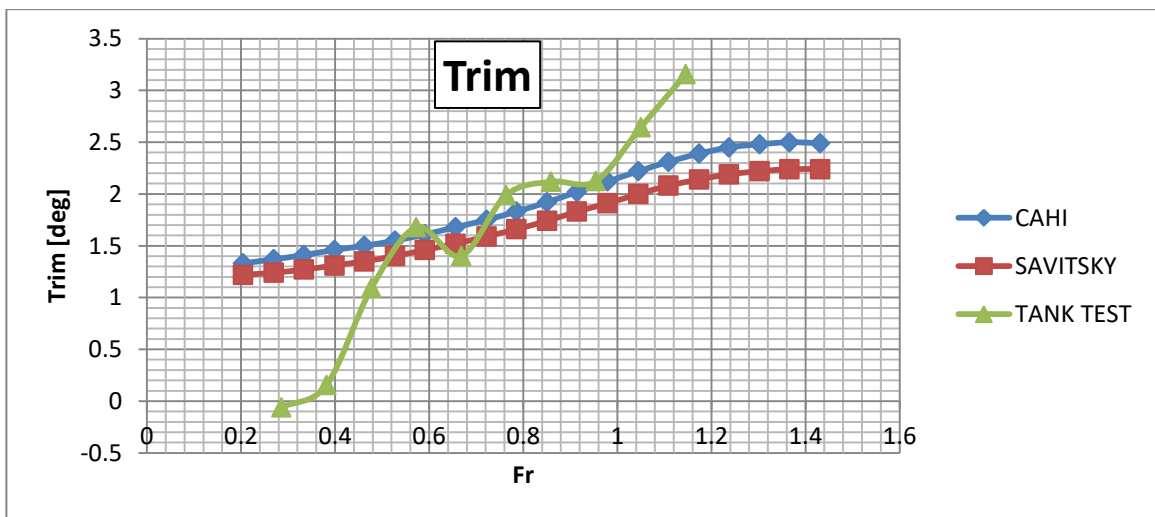
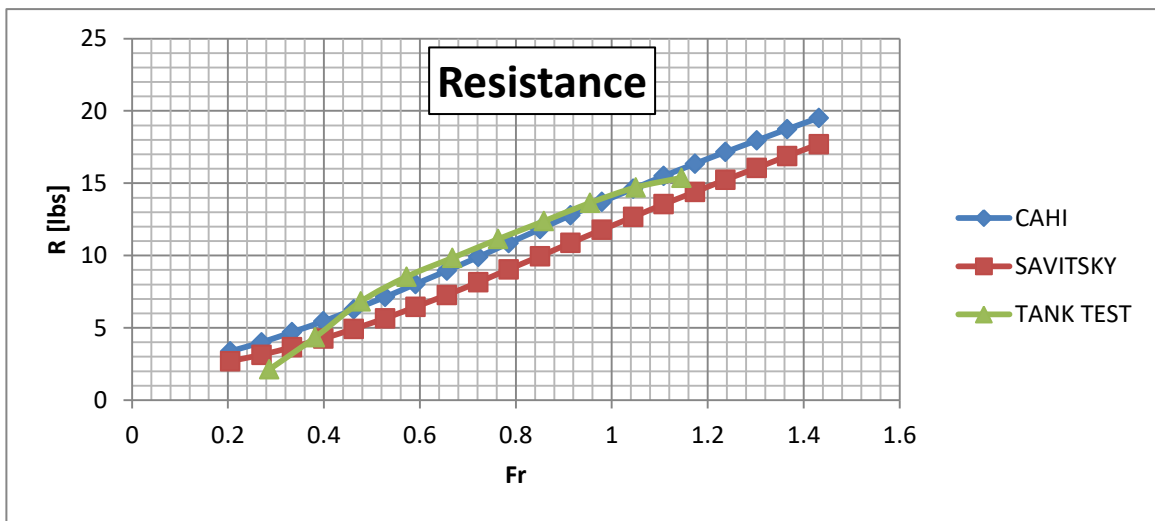
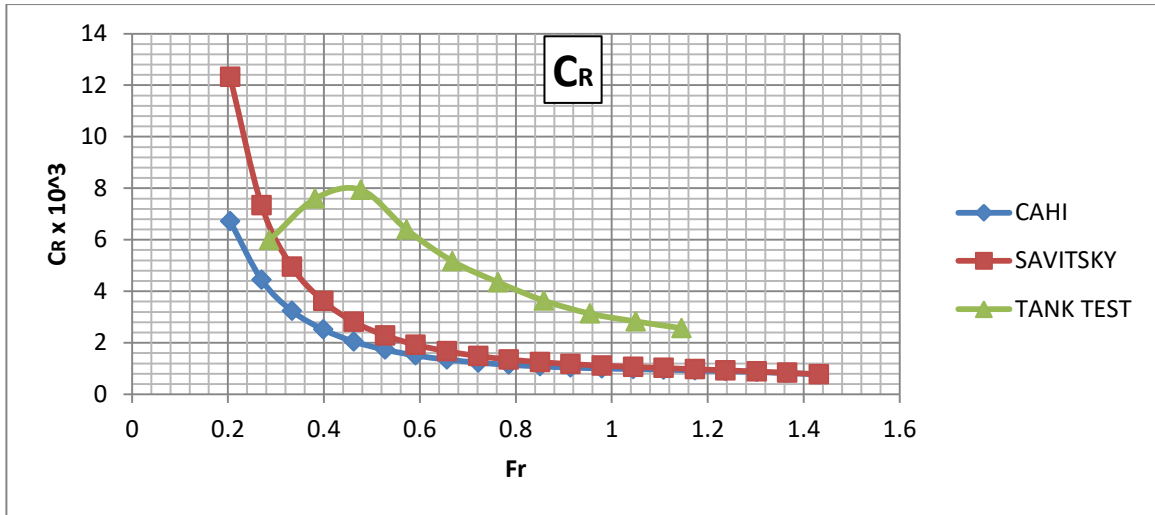
b=12.50 deg Bc=0.44 m Disp=44.72 kp LCG=1.02 m

| ~CAHI~ | | | | | | | ~SAVITSKY~ | | | | | |
|-------------|------------|---------------|------------|-----------------------|-----------------------|------------|------------|---------------|------------|-----------------------|-----------------------|------------|
| Vs [m/s] | Lamda - | Trim [deg] | D/W [%] | Cr 10 ³ | Ct 10 ³ | R [lbs] | Lamda - | Trim [deg] | D/W [%] | Cr 10 ³ | Ct 10 ³ | R [lbs] |
| 1.00 | 13.28 | 1.60 | 0.04 | 9.266 | 12.520 | 3.73 | 6.88 | 1.50 | 0.03 | 16.711 | 20.389 | 3.15 |
| 1.32 | 11.96 | 1.65 | 0.04 | 6.116 | 9.272 | 4.31 | 6.81 | 1.54 | 0.04 | 9.996 | 13.494 | 3.57 |
| 1.63 | 11.00 | 1.70 | 0.05 | 4.456 | 7.539 | 4.95 | 6.73 | 1.58 | 0.04 | 6.777 | 10.146 | 4.08 |
| 1.95 | 10.24 | 1.75 | 0.06 | 3.470 | 6.498 | 5.66 | 6.62 | 1.63 | 0.05 | 4.994 | 8.265 | 4.66 |
| 2.26 | 9.59 | 1.82 | 0.07 | 2.839 | 5.822 | 6.41 | 6.50 | 1.69 | 0.05 | 3.909 | 7.103 | 5.30 |
| 2.58 | 9.03 | 1.89 | 0.07 | 2.415 | 5.362 | 7.22 | 6.36 | 1.76 | 0.06 | 3.205 | 6.338 | 6.01 |
| 2.89 | 8.52 | 1.97 | 0.08 | 2.120 | 5.038 | 8.06 | 6.20 | 1.84 | 0.07 | 2.728 | 5.813 | 6.76 |
| 3.21 | 8.05 | 2.06 | 0.09 | 1.912 | 4.807 | 8.92 | 6.02 | 1.93 | 0.08 | 2.396 | 5.440 | 7.56 |
| 3.53 | 7.60 | 2.16 | 0.10 | 1.764 | 4.642 | 9.81 | 5.83 | 2.03 | 0.09 | 2.158 | 5.170 | 8.39 |
| 3.84 | 7.17 | 2.28 | 0.11 | 1.660 | 4.524 | 10.70 | 5.62 | 2.14 | 0.09 | 1.986 | 4.972 | 9.23 |
| 4.16 | 6.77 | 2.40 | 0.12 | 1.587 | 4.441 | 11.60 | 5.41 | 2.25 | 0.10 | 1.858 | 4.823 | 10.08 |
| 4.47 | 6.38 | 2.53 | 0.13 | 1.535 | 4.383 | 12.47 | 5.19 | 2.37 | 0.11 | 1.758 | 4.708 | 10.92 |
| 4.79 | 6.01 | 2.66 | 0.14 | 1.493 | 4.337 | 13.32 | 4.98 | 2.47 | 0.12 | 1.674 | 4.611 | 11.75 |
| 5.11 | 5.67 | 2.77 | 0.14 | 1.454 | 4.295 | 14.13 | 4.77 | 2.57 | 0.13 | 1.597 | 4.522 | 12.55 |
| 5.42 | 5.37 | 2.86 | 0.15 | 1.409 | 4.248 | 14.90 | 4.59 | 2.64 | 0.14 | 1.518 | 4.434 | 13.31 |
| 5.74 | 5.10 | 2.92 | 0.16 | 1.355 | 4.191 | 15.63 | 4.42 | 2.69 | 0.14 | 1.436 | 4.342 | 14.05 |
| 6.05 | 4.87 | 2.95 | 0.17 | 1.289 | 4.123 | 16.32 | 4.27 | 2.72 | 0.15 | 1.348 | 4.245 | 14.77 |
| 6.37 | 4.67 | 2.95 | 0.17 | 1.215 | 4.044 | 16.99 | 4.14 | 2.72 | 0.16 | 1.256 | 4.144 | 15.47 |
| 6.68 | 4.50 | 2.93 | 0.18 | 1.135 | 3.959 | 17.64 | 4.02 | 2.70 | 0.16 | 1.164 | 4.041 | 16.16 |
| 7.00 | 4.35 | 2.88 | 0.19 | 1.053 | 3.871 | 18.30 | 3.93 | 2.66 | 0.17 | 1.072 | 3.939 | 16.86 |



b=12.50 deg Bc=0.44 m Disp=44.72 kp LCG=1.12 m

| ~CAHI~ | | | | | | | ~SAVITSKY~ | | | | | |
|--------|-------|-------|------|-----------------|-----------------|-------|------------|-------|------|-----------------|-----------------|-------|
| Vs | Lamda | Trim | D/W | Cr | Ct | R | Lamda | Trim | D/W | Cr | Ct | R |
| [m/s] | - | [deg] | [%] | 10 ³ | 10 ³ | [lbs] | - | [deg] | [%] | 10 ³ | 10 ³ | [lbs] |
| 1.00 | 15.20 | 1.33 | 0.03 | 6.721 | 9.897 | 3.38 | 7.55 | 1.22 | 0.03 | 12.323 | 15.936 | 2.70 |
| 1.32 | 13.67 | 1.37 | 0.04 | 4.447 | 7.529 | 4.00 | 7.49 | 1.24 | 0.03 | 7.340 | 10.777 | 3.14 |
| 1.63 | 12.57 | 1.41 | 0.05 | 3.238 | 6.250 | 4.70 | 7.41 | 1.27 | 0.04 | 4.950 | 8.259 | 3.66 |
| 1.95 | 11.70 | 1.46 | 0.06 | 2.516 | 5.473 | 5.45 | 7.32 | 1.31 | 0.04 | 3.622 | 6.835 | 4.26 |
| 2.26 | 10.98 | 1.50 | 0.06 | 2.049 | 4.963 | 6.27 | 7.20 | 1.35 | 0.05 | 2.813 | 5.949 | 4.93 |
| 2.58 | 10.35 | 1.55 | 0.07 | 1.732 | 4.611 | 7.13 | 7.08 | 1.40 | 0.06 | 2.285 | 5.359 | 5.66 |
| 2.89 | 9.79 | 1.61 | 0.08 | 1.509 | 4.358 | 8.03 | 6.93 | 1.46 | 0.07 | 1.925 | 4.949 | 6.45 |
| 3.21 | 9.28 | 1.68 | 0.09 | 1.348 | 4.174 | 8.95 | 6.77 | 1.52 | 0.07 | 1.671 | 4.653 | 7.28 |
| 3.53 | 8.80 | 1.75 | 0.10 | 1.231 | 4.038 | 9.90 | 6.59 | 1.59 | 0.08 | 1.487 | 4.435 | 8.15 |
| 3.84 | 8.34 | 1.83 | 0.11 | 1.145 | 3.937 | 10.86 | 6.40 | 1.66 | 0.09 | 1.352 | 4.272 | 9.05 |
| 4.16 | 7.91 | 1.92 | 0.12 | 1.083 | 3.863 | 11.83 | 6.19 | 1.74 | 0.10 | 1.252 | 4.148 | 9.96 |
| 4.47 | 7.49 | 2.02 | 0.13 | 1.038 | 3.809 | 12.78 | 5.98 | 1.83 | 0.11 | 1.175 | 4.053 | 10.87 |
| 4.79 | 7.09 | 2.12 | 0.14 | 1.005 | 3.770 | 13.71 | 5.76 | 1.91 | 0.12 | 1.115 | 3.978 | 11.78 |
| 5.11 | 6.71 | 2.22 | 0.15 | 0.979 | 3.740 | 14.62 | 5.55 | 2.00 | 0.13 | 1.066 | 3.916 | 12.67 |
| 5.42 | 6.36 | 2.31 | 0.16 | 0.955 | 3.713 | 15.50 | 5.34 | 2.08 | 0.14 | 1.021 | 3.861 | 13.55 |
| 5.74 | 6.04 | 2.39 | 0.17 | 0.929 | 3.686 | 16.35 | 5.14 | 2.14 | 0.15 | 0.977 | 3.809 | 14.40 |
| 6.05 | 5.75 | 2.45 | 0.17 | 0.899 | 3.654 | 17.16 | 4.96 | 2.19 | 0.15 | 0.932 | 3.755 | 15.24 |
| 6.37 | 5.50 | 2.48 | 0.18 | 0.863 | 3.615 | 17.96 | 4.79 | 2.22 | 0.16 | 0.884 | 3.699 | 16.06 |
| 6.68 | 5.27 | 2.50 | 0.19 | 0.822 | 3.571 | 18.74 | 4.65 | 2.24 | 0.17 | 0.834 | 3.641 | 16.88 |
| 7.00 | 5.08 | 2.49 | 0.20 | 0.777 | 3.522 | 19.52 | 4.52 | 2.24 | 0.18 | 0.782 | 3.580 | 17.70 |



Simulation Info:

 27/06/2019 04:49:33 pm

Input Data:

 Ship Speed: from Vs1=1.00 m/s to Vs2=7.00 m/s (for 20 different Ship Speed values)
 Ship Displacement: Disp=64.25 kp
 Breadth at Chine: Bc=0.44 m
 Deadrise Angle: b=12.50 deg
 LCG: from LCG1=0.93 m to LCG2=1.12 m (for 3 different LCG values)

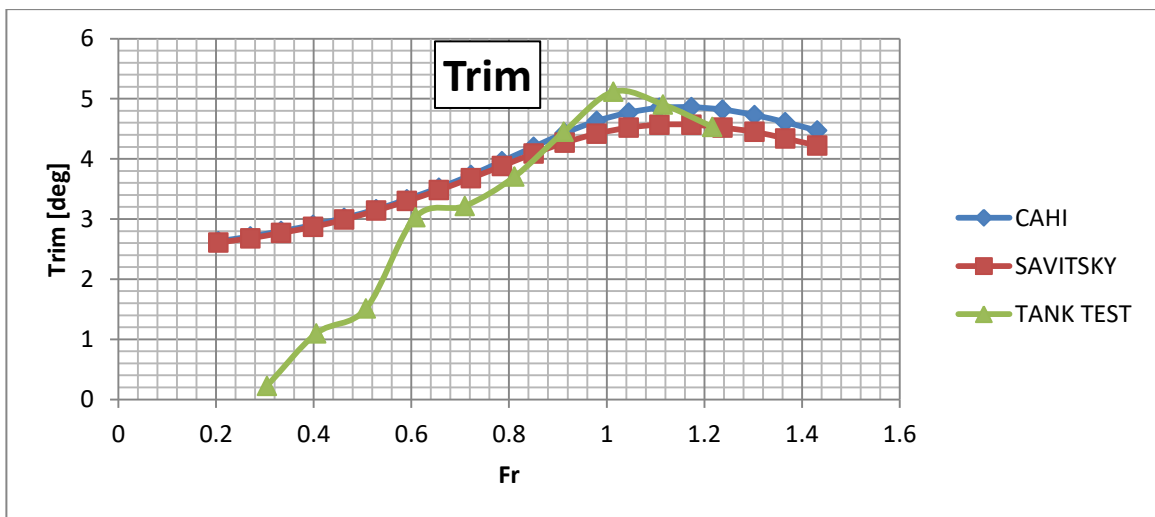
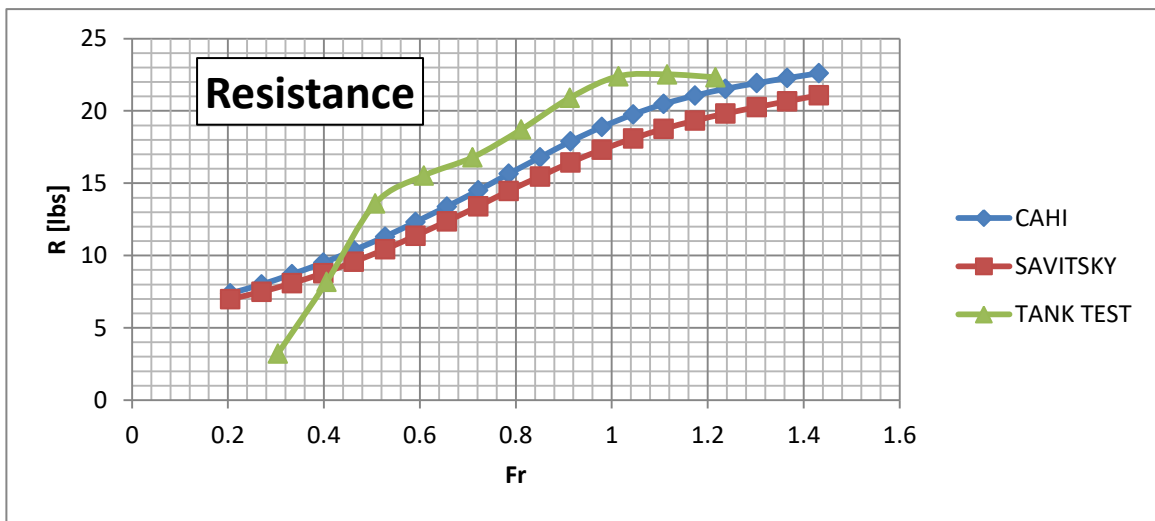
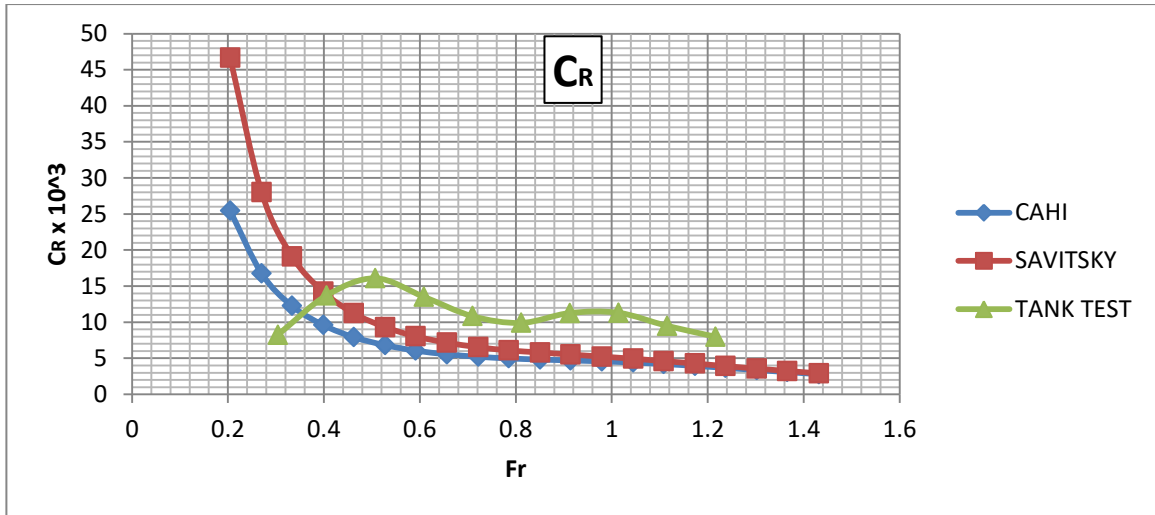
Fresh water properties at 23.30C:

Density=997.34 kg/m³
 Viscosity=0.92825*10⁻⁶ m²/s

Results:

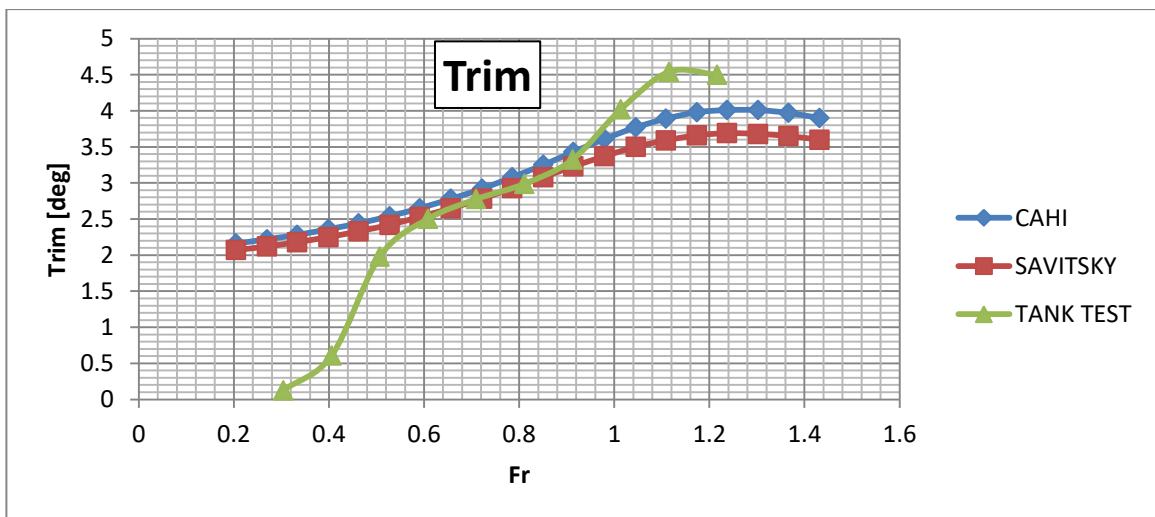
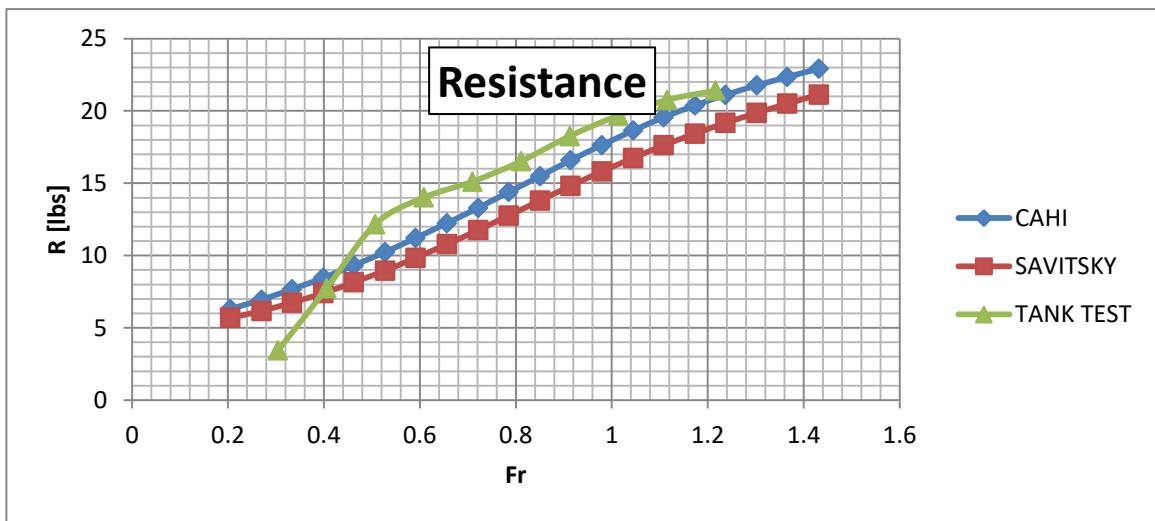
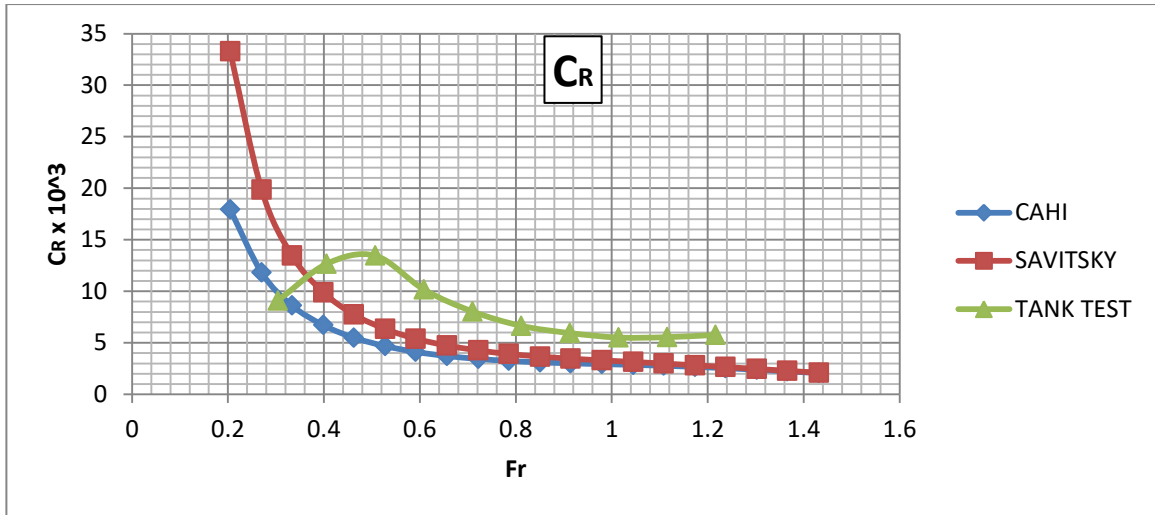
b=12.50 deg Bc=0.44 m Disp=64.25 kp LCG=0.93 m

| ~CAHI~ | | | | | | | ~SAVITSKY~ | | | | | |
|--------|-------|-------|------|-----------------|-----------------|-------|------------|-------|------|-----------------|-----------------|-------|
| Vs | Lamda | Trim | D/W | Cr | Ct | R | Lamda | Trim | D/W | Cr | Ct | R |
| [m/s] | - | [deg] | [%] | 10 ³ | 10 ³ | [lbs] | - | [deg] | [%] | 10 ³ | 10 ³ | [lbs] |
| 1.00 | 11.47 | 2.63 | 0.05 | 25.445 | 28.788 | 7.38 | 6.21 | 2.61 | 0.05 | 46.675 | 50.429 | 6.99 |
| 1.32 | 10.35 | 2.71 | 0.06 | 16.777 | 20.018 | 8.00 | 6.13 | 2.68 | 0.05 | 28.044 | 31.615 | 7.49 |
| 1.63 | 9.51 | 2.80 | 0.06 | 12.256 | 15.422 | 8.71 | 6.04 | 2.77 | 0.06 | 19.133 | 22.572 | 8.09 |
| 1.95 | 8.85 | 2.90 | 0.07 | 9.601 | 12.709 | 9.50 | 5.92 | 2.87 | 0.06 | 14.211 | 17.552 | 8.78 |
| 2.26 | 8.28 | 3.02 | 0.07 | 7.923 | 10.985 | 10.37 | 5.79 | 2.99 | 0.07 | 11.234 | 14.498 | 9.57 |
| 2.58 | 7.77 | 3.16 | 0.08 | 6.813 | 9.840 | 11.31 | 5.63 | 3.14 | 0.07 | 9.320 | 12.524 | 10.43 |
| 2.89 | 7.30 | 3.33 | 0.09 | 6.061 | 9.061 | 12.32 | 5.45 | 3.30 | 0.08 | 8.039 | 11.196 | 11.37 |
| 3.21 | 6.86 | 3.52 | 0.09 | 5.550 | 8.528 | 13.39 | 5.26 | 3.48 | 0.09 | 7.158 | 10.277 | 12.37 |
| 3.53 | 6.45 | 3.73 | 0.10 | 5.206 | 8.169 | 14.50 | 5.06 | 3.68 | 0.09 | 6.538 | 9.629 | 13.41 |
| 3.84 | 6.05 | 3.96 | 0.11 | 4.978 | 7.930 | 15.65 | 4.84 | 3.88 | 0.10 | 6.088 | 9.156 | 14.47 |
| 4.16 | 5.67 | 4.20 | 0.12 | 4.823 | 7.768 | 16.79 | 4.57 | 4.09 | 0.11 | 5.803 | 8.859 | 15.47 |
| 4.47 | 5.32 | 4.43 | 0.13 | 4.700 | 7.641 | 17.89 | 4.35 | 4.27 | 0.12 | 5.514 | 8.559 | 16.44 |
| 4.79 | 5.00 | 4.63 | 0.13 | 4.571 | 7.510 | 18.89 | 4.15 | 4.42 | 0.12 | 5.233 | 8.267 | 17.32 |
| 5.11 | 4.72 | 4.77 | 0.14 | 4.408 | 7.344 | 19.76 | 3.97 | 4.52 | 0.13 | 4.935 | 7.959 | 18.10 |
| 5.42 | 4.47 | 4.85 | 0.14 | 4.198 | 7.131 | 20.48 | 3.81 | 4.57 | 0.13 | 4.611 | 7.625 | 18.76 |
| 5.74 | 4.26 | 4.86 | 0.15 | 3.945 | 6.874 | 21.06 | 3.68 | 4.57 | 0.14 | 4.268 | 7.271 | 19.33 |
| 6.05 | 4.09 | 4.82 | 0.15 | 3.664 | 6.588 | 21.53 | 3.57 | 4.52 | 0.14 | 3.916 | 6.907 | 19.82 |
| 6.37 | 3.94 | 4.73 | 0.15 | 3.371 | 6.287 | 21.92 | 3.47 | 4.45 | 0.14 | 3.567 | 6.545 | 20.26 |
| 6.68 | 3.81 | 4.61 | 0.16 | 3.079 | 5.987 | 22.27 | 3.40 | 4.34 | 0.15 | 3.232 | 6.197 | 20.67 |
| 7.00 | 3.71 | 4.47 | 0.16 | 2.798 | 5.698 | 22.60 | 3.33 | 4.22 | 0.15 | 2.917 | 5.868 | 21.08 |



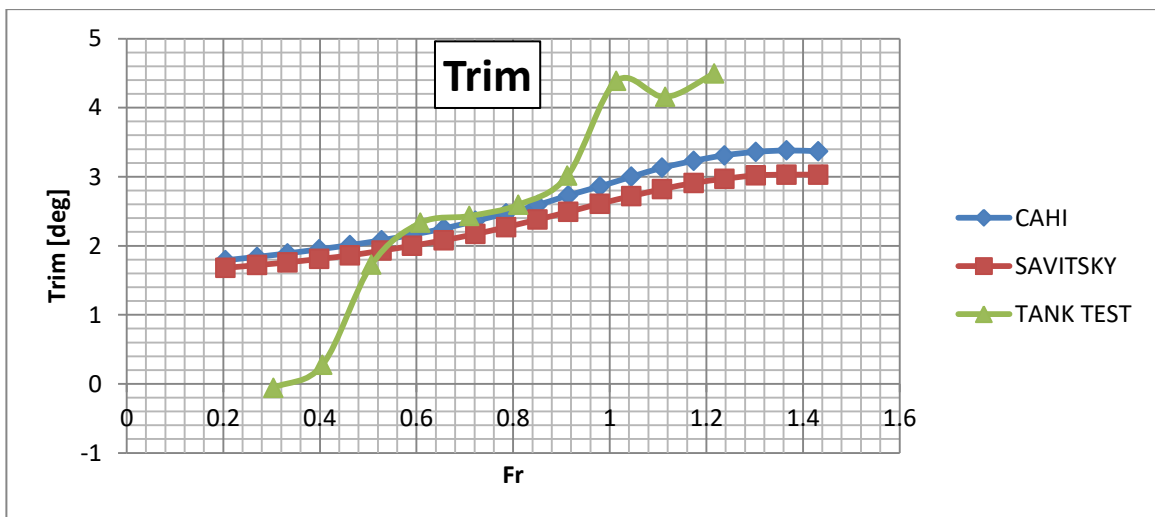
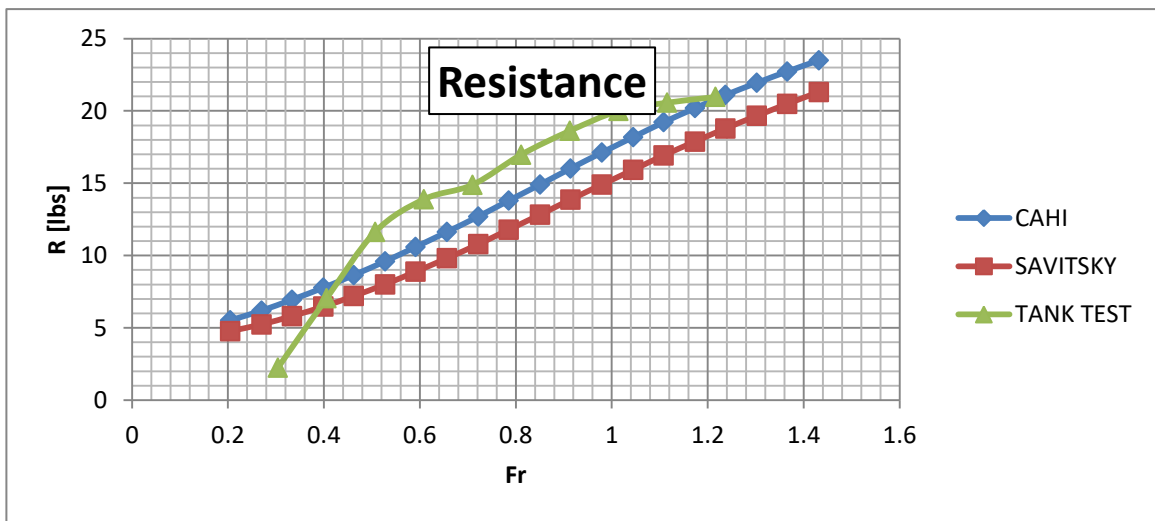
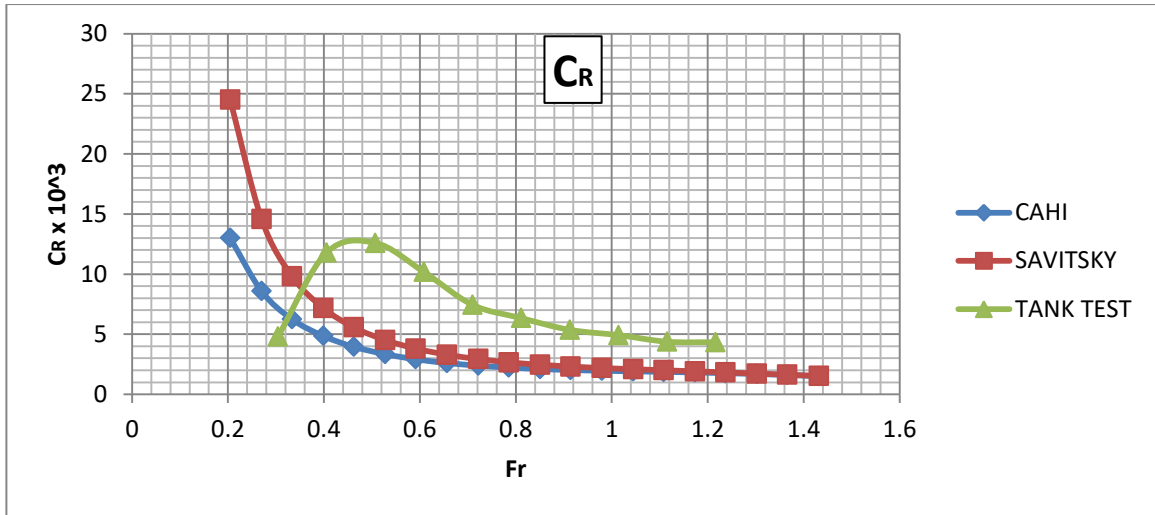
b=12.50 deg Bc=0.44 m Disp=64.25 kp LCG=1.02 m

| ~CAHI~ | | | | | | | ~SAVITSKY~ | | | | | |
|--------|-------|-------|------|-----------------|-----------------|-------|------------|-------|------|-----------------|-----------------|-------|
| Vs | Lamda | Trim | D/W | Cr | Ct | R | Lamda | Trim | D/W | Cr | Ct | R |
| [m/s] | - | [deg] | [%] | 10 ³ | 10 ³ | [lbs] | - | [deg] | [%] | 10 ³ | 10 ³ | [lbs] |
| 1.00 | 13.28 | 2.16 | 0.04 | 17.943 | 21.198 | 6.30 | 6.88 | 2.07 | 0.04 | 33.285 | 36.964 | 5.69 |
| 1.32 | 11.96 | 2.22 | 0.05 | 11.829 | 14.986 | 6.95 | 6.81 | 2.12 | 0.04 | 19.884 | 23.383 | 6.17 |
| 1.63 | 11.00 | 2.28 | 0.05 | 8.616 | 11.701 | 7.67 | 6.73 | 2.18 | 0.05 | 13.465 | 16.835 | 6.75 |
| 1.95 | 10.24 | 2.36 | 0.06 | 6.714 | 9.742 | 8.46 | 6.62 | 2.25 | 0.05 | 9.910 | 13.182 | 7.40 |
| 2.26 | 9.59 | 2.44 | 0.07 | 5.498 | 8.482 | 9.32 | 6.50 | 2.33 | 0.06 | 7.749 | 10.944 | 8.15 |
| 2.58 | 9.03 | 2.54 | 0.07 | 4.682 | 7.630 | 10.24 | 6.36 | 2.42 | 0.06 | 6.348 | 9.482 | 8.96 |
| 2.89 | 8.52 | 2.65 | 0.08 | 4.117 | 7.036 | 11.21 | 6.20 | 2.53 | 0.07 | 5.399 | 8.484 | 9.84 |
| 3.21 | 8.05 | 2.78 | 0.09 | 3.719 | 6.615 | 12.24 | 6.02 | 2.65 | 0.08 | 4.736 | 7.781 | 10.78 |
| 3.53 | 7.60 | 2.92 | 0.09 | 3.438 | 6.316 | 13.30 | 5.83 | 2.78 | 0.08 | 4.263 | 7.276 | 11.76 |
| 3.84 | 7.17 | 3.08 | 0.10 | 3.241 | 6.106 | 14.39 | 5.62 | 2.93 | 0.09 | 3.920 | 6.907 | 12.77 |
| 4.16 | 6.77 | 3.25 | 0.11 | 3.105 | 5.960 | 15.49 | 5.41 | 3.08 | 0.10 | 3.664 | 6.631 | 13.80 |
| 4.47 | 6.38 | 3.43 | 0.12 | 3.008 | 5.857 | 16.58 | 5.19 | 3.23 | 0.10 | 3.465 | 6.416 | 14.82 |
| 4.79 | 6.01 | 3.61 | 0.12 | 2.932 | 5.777 | 17.64 | 4.98 | 3.37 | 0.11 | 3.298 | 6.235 | 15.81 |
| 5.11 | 5.67 | 3.77 | 0.13 | 2.858 | 5.701 | 18.64 | 4.77 | 3.50 | 0.12 | 3.143 | 6.069 | 16.75 |
| 5.42 | 5.37 | 3.89 | 0.14 | 2.773 | 5.613 | 19.56 | 4.59 | 3.59 | 0.12 | 2.986 | 5.903 | 17.62 |
| 5.74 | 5.10 | 3.98 | 0.14 | 2.666 | 5.504 | 20.38 | 4.42 | 3.66 | 0.13 | 2.821 | 5.729 | 18.43 |
| 6.05 | 4.87 | 4.01 | 0.15 | 2.536 | 5.372 | 21.11 | 4.27 | 3.69 | 0.14 | 2.646 | 5.544 | 19.17 |
| 6.37 | 4.67 | 4.01 | 0.15 | 2.388 | 5.219 | 21.76 | 4.14 | 3.68 | 0.14 | 2.464 | 5.353 | 19.86 |
| 6.68 | 4.50 | 3.97 | 0.16 | 2.229 | 5.055 | 22.35 | 4.02 | 3.65 | 0.14 | 2.280 | 5.158 | 20.50 |
| 7.00 | 4.35 | 3.90 | 0.16 | 2.064 | 4.884 | 22.91 | 3.93 | 3.60 | 0.15 | 2.098 | 4.966 | 21.13 |



b=12.50 deg Bc=0.44 m Disp=64.25 kp LCG=1.12 m

| ~CAHI~ | | | | | | | ~SAVITSKY~ | | | | | |
|--------|-------|-------|------|-----------------|-----------------|-------|------------|-------|------|-----------------|-----------------|-------|
| Vs | Lamda | Trim | D/W | Cr | Ct | R | Lamda | Trim | D/W | Cr | Ct | R |
| [m/s] | - | [deg] | [%] | 10 ³ | 10 ³ | [lbs] | - | [deg] | [%] | 10 ³ | 10 ³ | [lbs] |
| 1.00 | 15.20 | 1.79 | 0.04 | 13.006 | 16.182 | 5.52 | 7.55 | 1.68 | 0.03 | 24.528 | 28.141 | 4.77 |
| 1.32 | 13.67 | 1.84 | 0.04 | 8.585 | 11.668 | 6.19 | 7.49 | 1.72 | 0.04 | 14.590 | 18.027 | 5.24 |
| 1.63 | 12.57 | 1.89 | 0.05 | 6.246 | 9.259 | 6.95 | 7.41 | 1.76 | 0.04 | 9.826 | 13.136 | 5.81 |
| 1.95 | 11.70 | 1.95 | 0.05 | 4.851 | 7.810 | 7.77 | 7.32 | 1.81 | 0.05 | 7.183 | 10.396 | 6.47 |
| 2.26 | 10.98 | 2.01 | 0.06 | 3.953 | 6.868 | 8.65 | 7.20 | 1.86 | 0.05 | 5.571 | 8.708 | 7.20 |
| 2.58 | 10.35 | 2.08 | 0.07 | 3.344 | 6.223 | 9.60 | 7.08 | 1.93 | 0.06 | 4.521 | 7.596 | 8.01 |
| 2.89 | 9.79 | 2.16 | 0.07 | 2.916 | 5.766 | 10.59 | 6.93 | 2.00 | 0.06 | 3.804 | 6.829 | 8.88 |
| 3.21 | 9.28 | 2.25 | 0.08 | 2.608 | 5.435 | 11.63 | 6.77 | 2.08 | 0.07 | 3.299 | 6.282 | 9.81 |
| 3.53 | 8.80 | 2.36 | 0.09 | 2.385 | 5.192 | 12.70 | 6.59 | 2.17 | 0.08 | 2.934 | 5.882 | 10.78 |
| 3.84 | 8.34 | 2.47 | 0.10 | 2.223 | 5.015 | 13.80 | 6.40 | 2.27 | 0.08 | 2.665 | 5.586 | 11.79 |
| 4.16 | 7.91 | 2.59 | 0.11 | 2.106 | 4.886 | 14.91 | 6.19 | 2.38 | 0.09 | 2.465 | 5.362 | 12.83 |
| 4.47 | 7.49 | 2.73 | 0.11 | 2.021 | 4.793 | 16.02 | 5.98 | 2.49 | 0.10 | 2.312 | 5.191 | 13.87 |
| 4.79 | 7.09 | 2.86 | 0.12 | 1.960 | 4.726 | 17.12 | 5.76 | 2.61 | 0.11 | 2.193 | 5.056 | 14.91 |
| 5.11 | 6.71 | 3.00 | 0.13 | 1.911 | 4.673 | 18.19 | 5.55 | 2.72 | 0.11 | 2.093 | 4.945 | 15.93 |
| 5.42 | 6.36 | 3.13 | 0.14 | 1.866 | 4.626 | 19.22 | 5.34 | 2.82 | 0.12 | 2.003 | 4.845 | 16.93 |
| 5.74 | 6.04 | 3.23 | 0.14 | 1.818 | 4.575 | 20.19 | 5.14 | 2.91 | 0.13 | 1.916 | 4.748 | 17.88 |
| 6.05 | 5.75 | 3.31 | 0.15 | 1.759 | 4.515 | 21.10 | 4.96 | 2.97 | 0.13 | 1.826 | 4.650 | 18.79 |
| 6.37 | 5.50 | 3.36 | 0.15 | 1.689 | 4.442 | 21.94 | 4.79 | 3.02 | 0.14 | 1.731 | 4.547 | 19.66 |
| 6.68 | 5.27 | 3.38 | 0.16 | 1.608 | 4.358 | 22.73 | 4.65 | 3.03 | 0.14 | 1.631 | 4.439 | 20.49 |
| 7.00 | 5.08 | 3.37 | 0.17 | 1.517 | 4.264 | 23.49 | 4.52 | 3.03 | 0.15 | 1.528 | 4.327 | 21.30 |



Simulation Info:

 27/06/2019 04:50:07 pm

Input Data:

 Ship Speed: from Vs1=1.00 m/s to Vs2=7.00 m/s (for 20 different Ship Speed values)
 Ship Displacement: Disp=23.29 kp
 Breadth at Chine: Bc=0.35 m
 Deadrise Angle: b=12.50 deg
 LCG: from LCG1=0.93 m to LCG2=1.12 m (for 3 different LCG values)

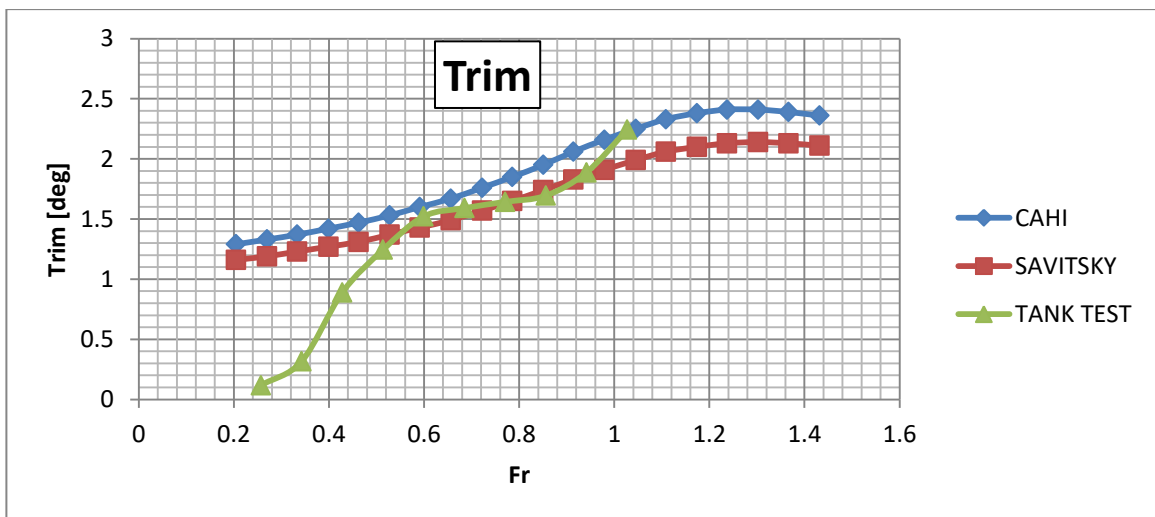
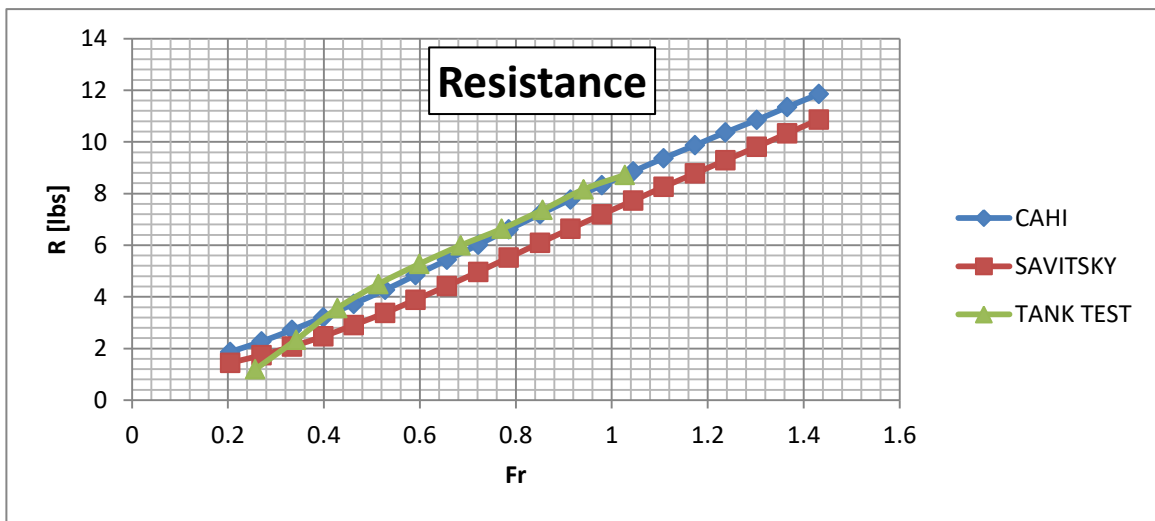
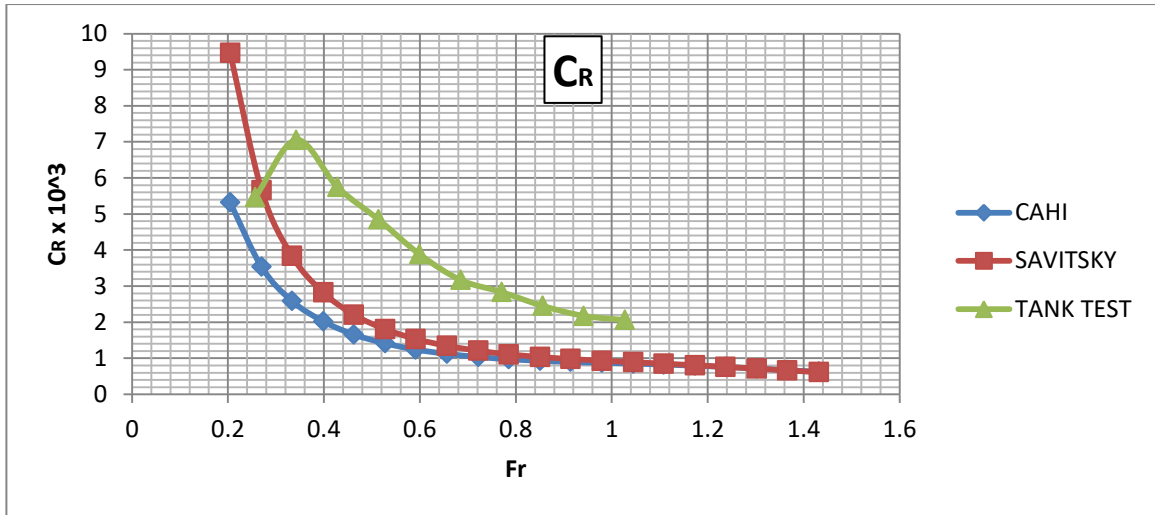
Fresh water properties at 23.90C:

Density=997.22 kg/m³
 Viscosity=0.91549*10⁻⁶ m²/s

Results:

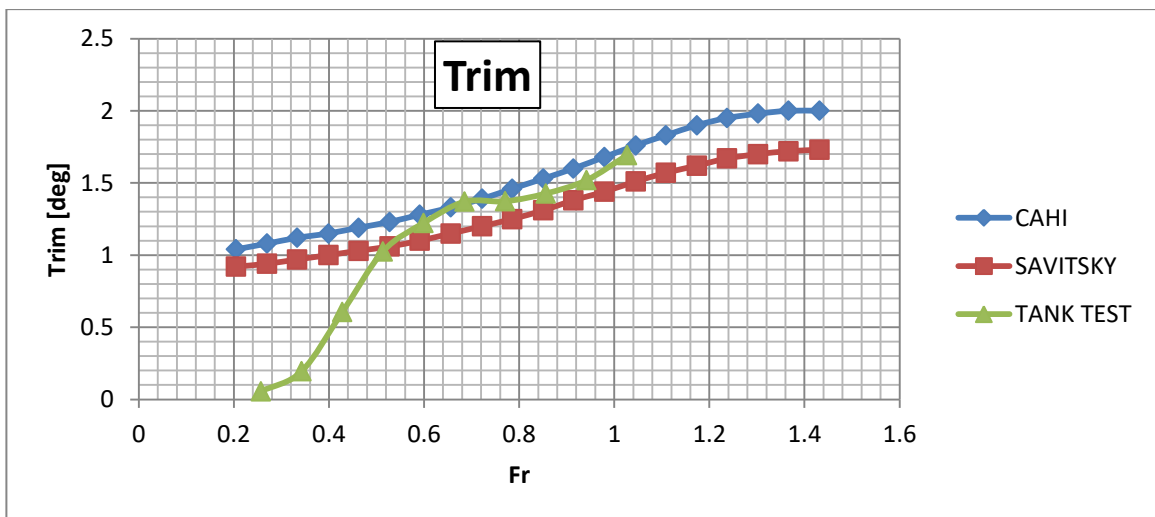
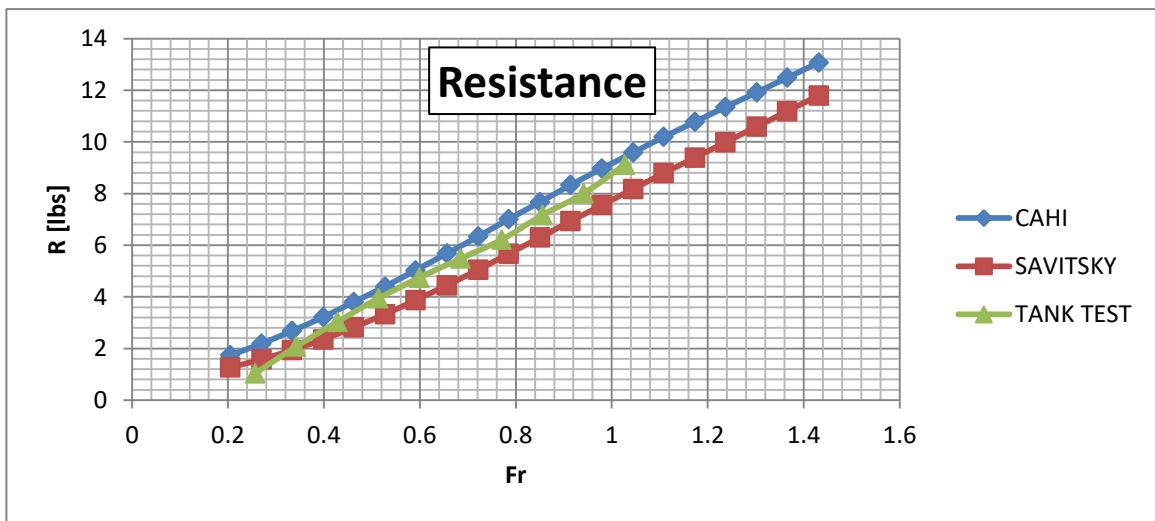
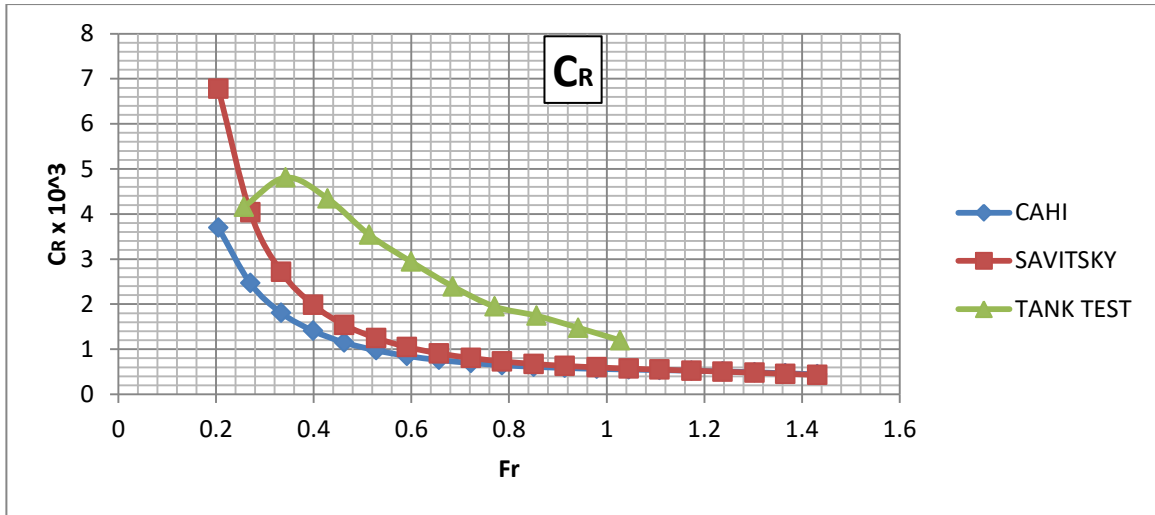
b=12.50 deg Bc=0.35 m Disp=23.29 kp LCG=0.93 m

| ~CAHI~ | | | | | | | ~SAVITSKY~ | | | | | |
|--------|-------|-------|------|-----------------|-----------------|-------|------------|-------|------|-----------------|-----------------|-------|
| Vs | Lamda | Trim | D/W | Cr | Ct | R | Lamda | Trim | D/W | Cr | Ct | R |
| [m/s] | - | [deg] | [%] | 10 ³ | 10 ³ | [lbs] | - | [deg] | [%] | 10 ³ | 10 ³ | [lbs] |
| 1.00 | 15.64 | 1.29 | 0.04 | 5.319 | 8.610 | 1.87 | 7.93 | 1.16 | 0.03 | 9.472 | 13.211 | 1.45 |
| 1.32 | 14.05 | 1.33 | 0.04 | 3.534 | 6.727 | 2.27 | 7.85 | 1.19 | 0.03 | 5.664 | 9.218 | 1.74 |
| 1.63 | 12.90 | 1.37 | 0.05 | 2.587 | 5.707 | 2.72 | 7.76 | 1.23 | 0.04 | 3.837 | 7.259 | 2.08 |
| 1.95 | 11.98 | 1.42 | 0.06 | 2.022 | 5.086 | 3.21 | 7.64 | 1.27 | 0.05 | 2.824 | 6.146 | 2.47 |
| 2.26 | 11.22 | 1.47 | 0.07 | 1.659 | 4.678 | 3.73 | 7.51 | 1.31 | 0.06 | 2.208 | 5.450 | 2.91 |
| 2.58 | 10.55 | 1.53 | 0.08 | 1.413 | 4.397 | 4.27 | 7.35 | 1.37 | 0.07 | 1.807 | 4.986 | 3.38 |
| 2.89 | 9.94 | 1.60 | 0.09 | 1.242 | 4.197 | 4.84 | 7.17 | 1.43 | 0.08 | 1.535 | 4.663 | 3.89 |
| 3.21 | 9.39 | 1.67 | 0.11 | 1.121 | 4.053 | 5.43 | 6.98 | 1.49 | 0.09 | 1.345 | 4.431 | 4.42 |
| 3.53 | 8.86 | 1.76 | 0.12 | 1.035 | 3.949 | 6.02 | 6.76 | 1.57 | 0.10 | 1.209 | 4.262 | 4.97 |
| 3.84 | 8.36 | 1.85 | 0.13 | 0.974 | 3.874 | 6.61 | 6.54 | 1.65 | 0.11 | 1.110 | 4.135 | 5.52 |
| 4.16 | 7.88 | 1.95 | 0.14 | 0.930 | 3.820 | 7.20 | 6.30 | 1.74 | 0.12 | 1.036 | 4.040 | 6.09 |
| 4.47 | 7.43 | 2.06 | 0.15 | 0.899 | 3.782 | 7.77 | 6.05 | 1.83 | 0.13 | 0.980 | 3.966 | 6.64 |
| 4.79 | 7.01 | 2.16 | 0.16 | 0.874 | 3.753 | 8.32 | 5.81 | 1.91 | 0.14 | 0.933 | 3.906 | 7.19 |
| 5.11 | 6.61 | 2.25 | 0.17 | 0.851 | 3.727 | 8.86 | 5.57 | 1.99 | 0.15 | 0.891 | 3.852 | 7.73 |
| 5.42 | 6.26 | 2.33 | 0.18 | 0.825 | 3.699 | 9.37 | 5.35 | 2.06 | 0.16 | 0.850 | 3.801 | 8.26 |
| 5.74 | 5.95 | 2.38 | 0.19 | 0.794 | 3.666 | 9.87 | 5.15 | 2.10 | 0.17 | 0.807 | 3.748 | 8.78 |
| 6.05 | 5.67 | 2.41 | 0.20 | 0.757 | 3.626 | 10.37 | 4.98 | 2.13 | 0.18 | 0.761 | 3.693 | 9.29 |
| 6.37 | 5.44 | 2.41 | 0.21 | 0.715 | 3.579 | 10.85 | 4.82 | 2.14 | 0.19 | 0.713 | 3.636 | 9.81 |
| 6.68 | 5.23 | 2.39 | 0.22 | 0.670 | 3.529 | 11.35 | 4.69 | 2.13 | 0.20 | 0.663 | 3.576 | 10.33 |
| 7.00 | 5.06 | 2.36 | 0.23 | 0.623 | 3.476 | 11.85 | 4.57 | 2.11 | 0.21 | 0.614 | 3.516 | 10.86 |



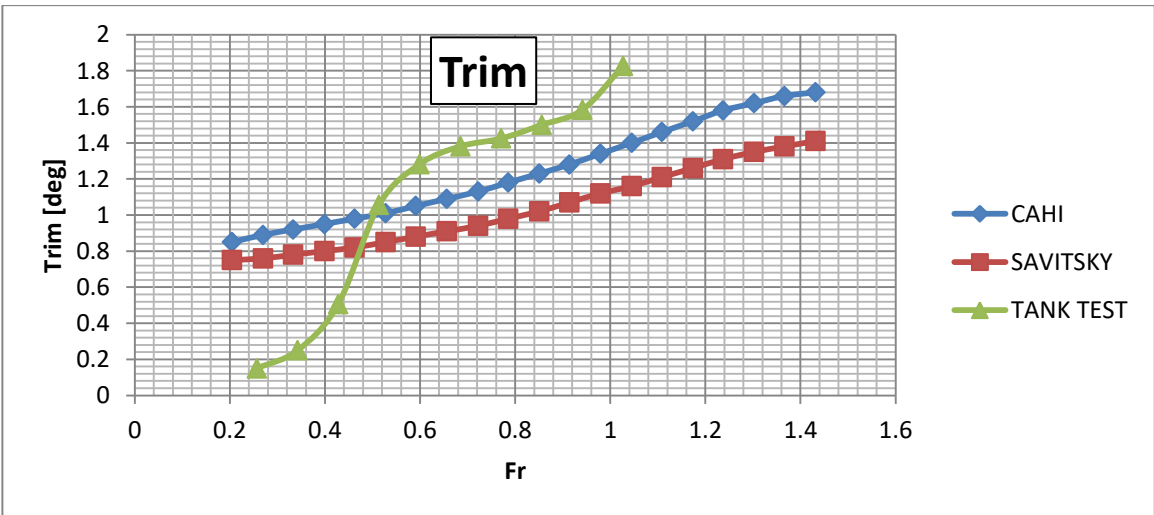
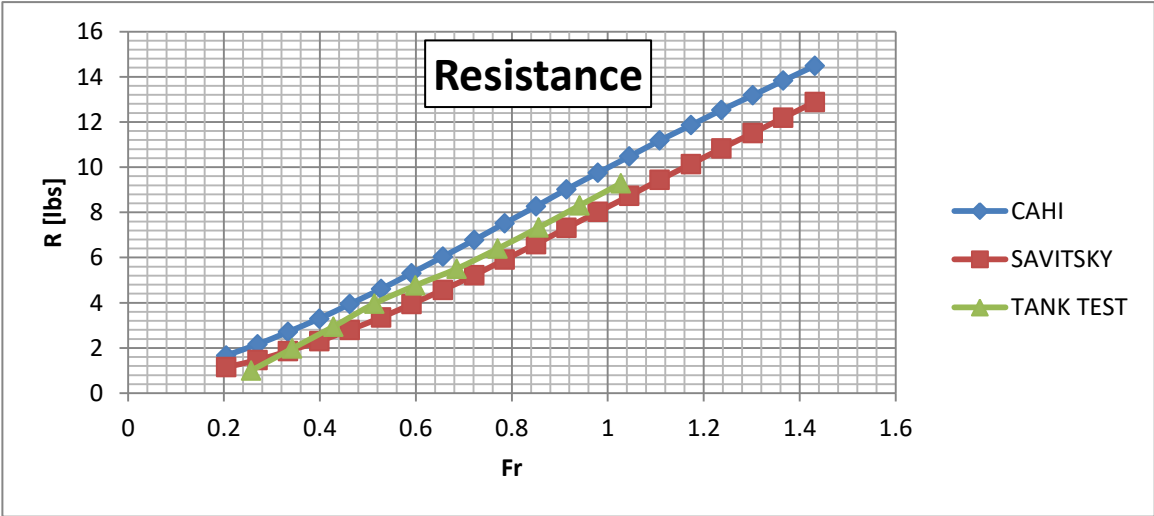
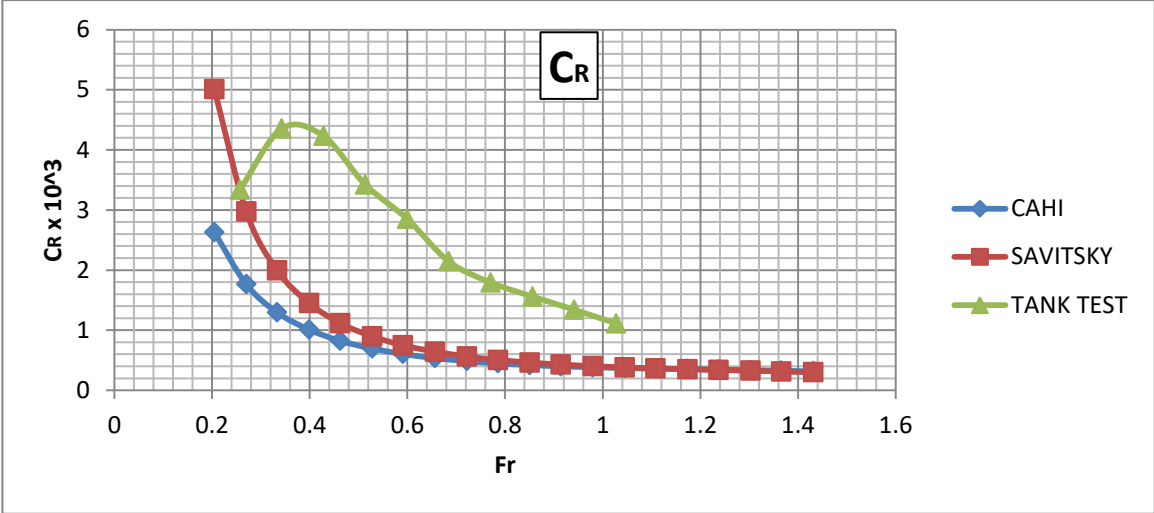
b=12.50 deg Bc=0.35 m Disp=23.29 kp LCG=1.02 m

| ~CAHI~ | | | | | | | ~SAVITSKY~ | | | | | |
|--------|-------|-------|------|-----------------|-----------------|-------|------------|-------|------|-----------------|-----------------|-------|
| Vs | Lamda | Trim | D/W | Cr | Ct | R | Lamda | Trim | D/W | Cr | Ct | R |
| [m/s] | - | [deg] | [%] | 10 ³ | 10 ³ | [lbs] | - | [deg] | [%] | 10 ³ | 10 ³ | [lbs] |
| 1.00 | 18.19 | 1.04 | 0.03 | 3.697 | 6.899 | 1.74 | 8.78 | 0.92 | 0.02 | 6.781 | 10.446 | 1.27 |
| 1.32 | 16.32 | 1.08 | 0.04 | 2.466 | 5.575 | 2.19 | 8.71 | 0.94 | 0.03 | 4.037 | 7.522 | 1.58 |
| 1.63 | 14.97 | 1.12 | 0.05 | 1.806 | 4.845 | 2.68 | 8.63 | 0.97 | 0.04 | 2.719 | 6.074 | 1.94 |
| 1.95 | 13.92 | 1.15 | 0.06 | 1.409 | 4.394 | 3.22 | 8.52 | 1.00 | 0.05 | 1.988 | 5.243 | 2.35 |
| 2.26 | 13.05 | 1.19 | 0.07 | 1.151 | 4.092 | 3.80 | 8.40 | 1.03 | 0.05 | 1.541 | 4.718 | 2.82 |
| 2.58 | 12.29 | 1.23 | 0.09 | 0.975 | 3.881 | 4.40 | 8.26 | 1.06 | 0.06 | 1.249 | 4.363 | 3.33 |
| 2.89 | 11.62 | 1.28 | 0.10 | 0.851 | 3.727 | 5.03 | 8.10 | 1.10 | 0.08 | 1.050 | 4.111 | 3.87 |
| 3.21 | 11.00 | 1.33 | 0.11 | 0.761 | 3.613 | 5.68 | 7.92 | 1.15 | 0.09 | 0.908 | 3.927 | 4.45 |
| 3.53 | 10.43 | 1.39 | 0.12 | 0.695 | 3.528 | 6.34 | 7.73 | 1.20 | 0.10 | 0.806 | 3.788 | 5.05 |
| 3.84 | 9.89 | 1.46 | 0.14 | 0.646 | 3.464 | 7.01 | 7.51 | 1.25 | 0.11 | 0.731 | 3.683 | 5.67 |
| 4.16 | 9.37 | 1.53 | 0.15 | 0.611 | 3.417 | 7.67 | 7.29 | 1.31 | 0.12 | 0.674 | 3.602 | 6.30 |
| 4.47 | 8.88 | 1.60 | 0.16 | 0.585 | 3.382 | 8.33 | 7.05 | 1.38 | 0.13 | 0.631 | 3.540 | 6.93 |
| 4.79 | 8.41 | 1.68 | 0.17 | 0.565 | 3.356 | 8.97 | 6.81 | 1.44 | 0.15 | 0.598 | 3.490 | 7.55 |
| 5.11 | 7.97 | 1.76 | 0.19 | 0.550 | 3.337 | 9.59 | 6.56 | 1.51 | 0.16 | 0.571 | 3.450 | 8.18 |
| 5.42 | 7.55 | 1.83 | 0.20 | 0.537 | 3.320 | 10.19 | 6.32 | 1.57 | 0.17 | 0.548 | 3.415 | 8.79 |
| 5.74 | 7.17 | 1.90 | 0.21 | 0.523 | 3.305 | 10.78 | 6.09 | 1.62 | 0.18 | 0.526 | 3.384 | 9.39 |
| 6.05 | 6.83 | 1.95 | 0.22 | 0.508 | 3.287 | 11.35 | 5.88 | 1.67 | 0.19 | 0.503 | 3.353 | 9.99 |
| 6.37 | 6.52 | 1.98 | 0.23 | 0.489 | 3.266 | 11.92 | 5.68 | 1.70 | 0.21 | 0.480 | 3.322 | 10.59 |
| 6.68 | 6.25 | 2.00 | 0.24 | 0.467 | 3.242 | 12.49 | 5.50 | 1.72 | 0.22 | 0.455 | 3.289 | 11.19 |
| 7.00 | 6.01 | 2.00 | 0.25 | 0.443 | 3.214 | 13.07 | 5.35 | 1.73 | 0.23 | 0.430 | 3.255 | 11.79 |



b=12.50 deg Bc=0.35 m Disp=23.29 kp LCG=1.12 m

| ~CAHI~ | | | | | | | ~SAVITSKY~ | | | | | |
|--------|-------|-------|------|-----------------|-----------------|-------|------------|-------|------|-----------------|-----------------|-------|
| Vs | Lamda | Trim | D/W | Cr | Ct | R | Lamda | Trim | D/W | Cr | Ct | R |
| [m/s] | - | [deg] | [%] | 10 ³ | 10 ³ | [lbs] | - | [deg] | [%] | 10 ³ | 10 ³ | [lbs] |
| 1.00 | 20.89 | 0.85 | 0.03 | 2.630 | 5.754 | 1.67 | 9.63 | 0.75 | 0.02 | 5.010 | 8.611 | 1.15 |
| 1.32 | 18.73 | 0.89 | 0.04 | 1.764 | 4.799 | 2.16 | 9.57 | 0.76 | 0.03 | 2.973 | 6.397 | 1.47 |
| 1.63 | 17.17 | 0.92 | 0.05 | 1.295 | 4.263 | 2.71 | 9.49 | 0.78 | 0.04 | 1.994 | 5.291 | 1.86 |
| 1.95 | 15.97 | 0.95 | 0.06 | 1.010 | 3.925 | 3.30 | 9.40 | 0.80 | 0.04 | 1.450 | 4.649 | 2.30 |
| 2.26 | 14.97 | 0.98 | 0.08 | 0.824 | 3.696 | 3.94 | 9.29 | 0.82 | 0.05 | 1.117 | 4.238 | 2.80 |
| 2.58 | 14.12 | 1.01 | 0.09 | 0.696 | 3.533 | 4.61 | 9.16 | 0.85 | 0.07 | 0.899 | 3.956 | 3.35 |
| 2.89 | 13.38 | 1.05 | 0.10 | 0.604 | 3.412 | 5.31 | 9.01 | 0.88 | 0.08 | 0.749 | 3.754 | 3.94 |
| 3.21 | 12.70 | 1.09 | 0.12 | 0.536 | 3.321 | 6.04 | 8.85 | 0.91 | 0.09 | 0.643 | 3.603 | 4.57 |
| 3.53 | 12.07 | 1.13 | 0.13 | 0.486 | 3.251 | 6.78 | 8.67 | 0.94 | 0.10 | 0.565 | 3.488 | 5.22 |
| 3.84 | 11.49 | 1.18 | 0.15 | 0.448 | 3.196 | 7.52 | 8.47 | 0.98 | 0.12 | 0.506 | 3.399 | 5.91 |
| 4.16 | 10.93 | 1.23 | 0.16 | 0.420 | 3.155 | 8.27 | 8.26 | 1.02 | 0.13 | 0.462 | 3.328 | 6.60 |
| 4.47 | 10.40 | 1.28 | 0.18 | 0.399 | 3.123 | 9.02 | 8.04 | 1.07 | 0.14 | 0.429 | 3.272 | 7.31 |
| 4.79 | 9.90 | 1.34 | 0.19 | 0.383 | 3.098 | 9.75 | 7.81 | 1.12 | 0.16 | 0.403 | 3.228 | 8.02 |
| 5.11 | 9.41 | 1.40 | 0.20 | 0.370 | 3.080 | 10.47 | 7.57 | 1.16 | 0.17 | 0.382 | 3.192 | 8.73 |
| 5.42 | 8.95 | 1.46 | 0.22 | 0.361 | 3.067 | 11.18 | 7.32 | 1.21 | 0.18 | 0.365 | 3.163 | 9.44 |
| 5.74 | 8.51 | 1.52 | 0.23 | 0.353 | 3.055 | 11.86 | 7.08 | 1.26 | 0.20 | 0.351 | 3.138 | 10.14 |
| 6.05 | 8.11 | 1.58 | 0.24 | 0.345 | 3.046 | 12.53 | 6.84 | 1.31 | 0.21 | 0.338 | 3.116 | 10.83 |
| 6.37 | 7.74 | 1.62 | 0.26 | 0.336 | 3.035 | 13.18 | 6.61 | 1.35 | 0.22 | 0.326 | 3.096 | 11.51 |
| 6.68 | 7.40 | 1.66 | 0.27 | 0.326 | 3.024 | 13.83 | 6.40 | 1.38 | 0.24 | 0.313 | 3.076 | 12.19 |
| 7.00 | 7.10 | 1.68 | 0.28 | 0.315 | 3.010 | 14.48 | 6.21 | 1.41 | 0.25 | 0.300 | 3.056 | 12.88 |



Simulation Info:

 27/06/2019 04:50:22 pm

Input Data:

 Ship Speed: from Vs1=1.00 m/s to Vs2=7.00 m/s (for 20 different Ship Speed values)
 Ship Displacement: Disp=31.17 kp
 Breadth at Chine: Bc=0.35 m
 Deadrise Angle: b=12.50 deg
 LCG: from LCG1=0.93 m to LCG2=1.12 m (for 3 different LCG values)

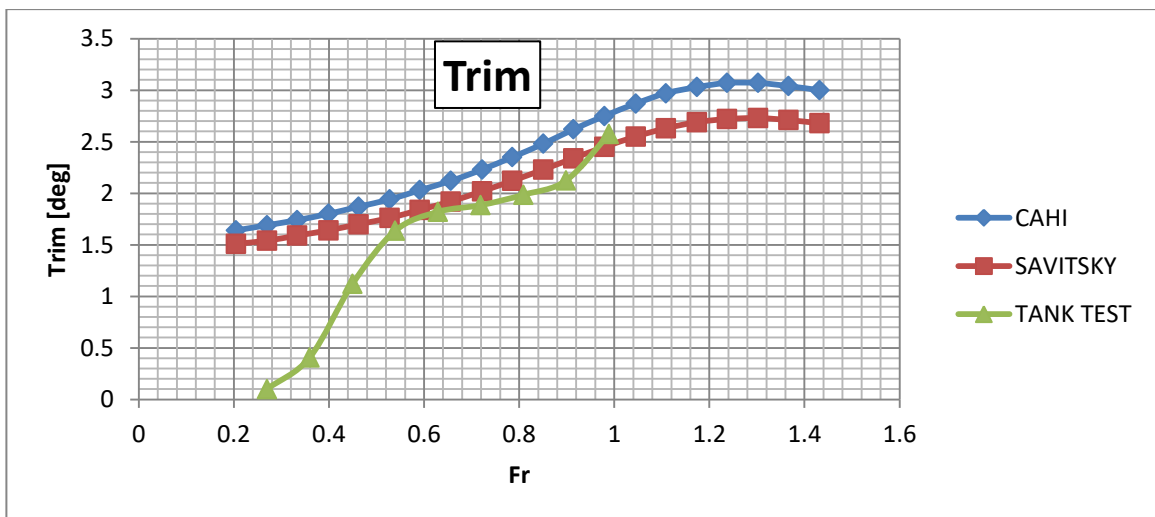
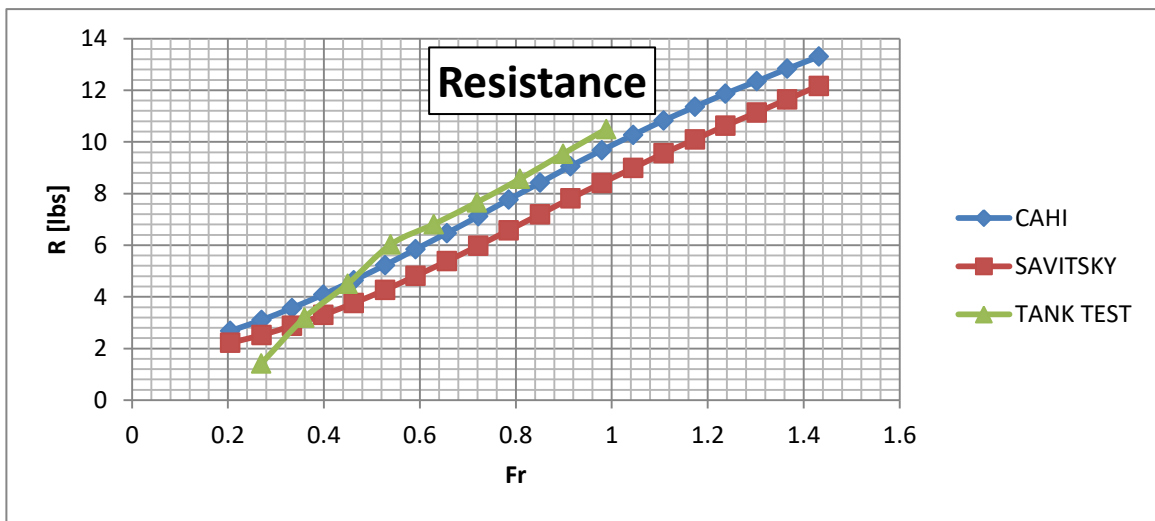
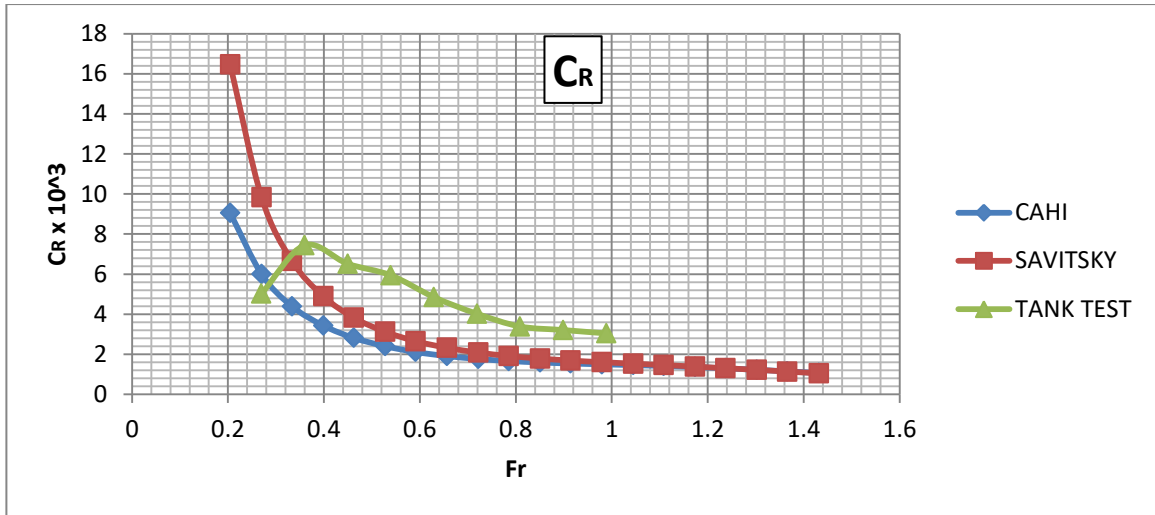
Fresh water properties at 23.90C:

Density=997.22 kg/m³
 Viscosity=0.91549*10⁻⁶ m²/s

Results:

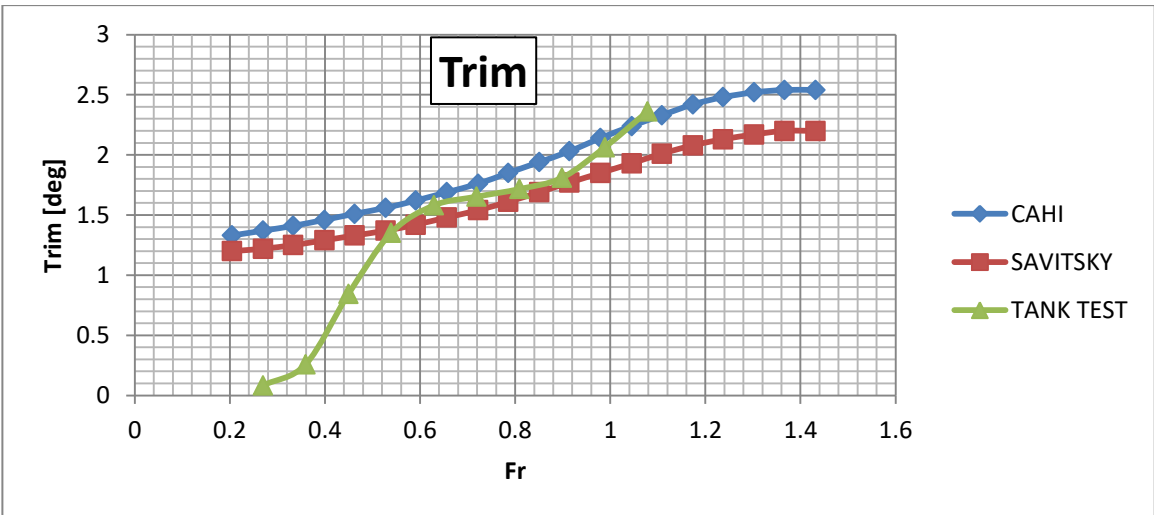
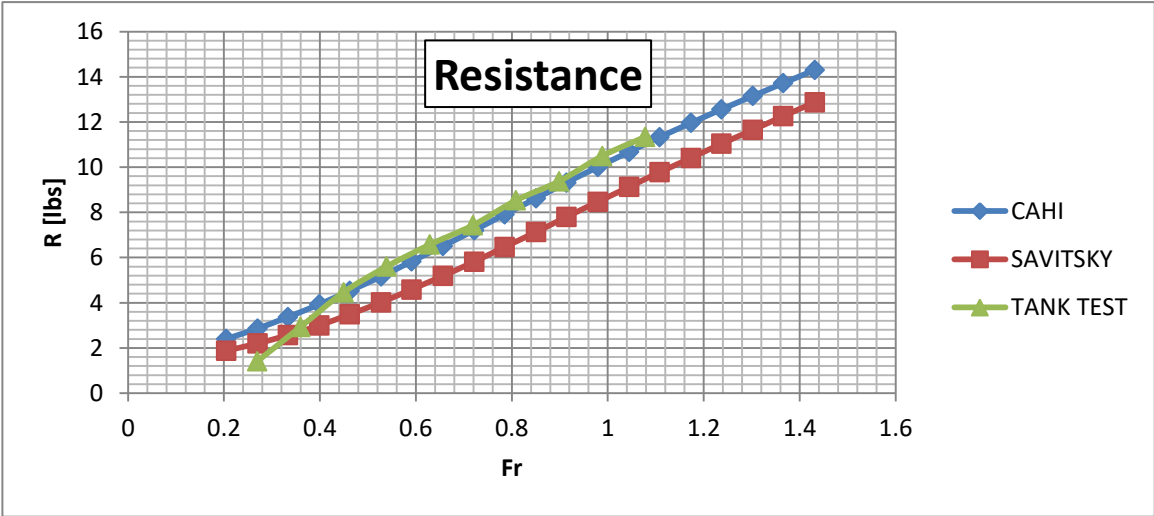
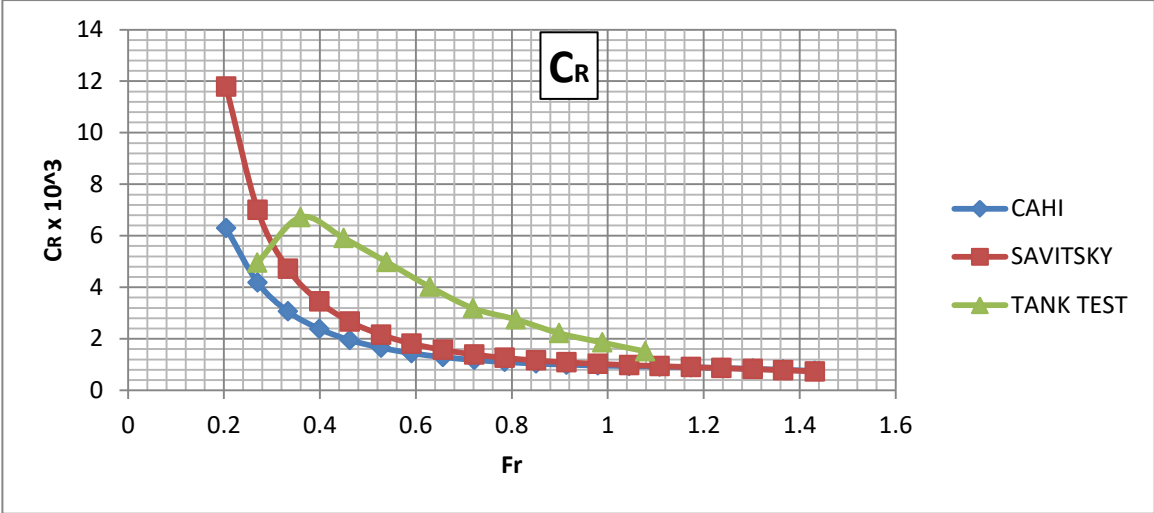
 b=12.50 deg Bc=0.35 m Disp=31.17 kp LCG=0.93 m

| ~CAHI~ | | | | | | | ~SAVITSKY~ | | | | | |
|--------|-------|-------|------|-----------------|-----------------|-------|------------|-------|------|-----------------|-----------------|-------|
| Vs | Lamda | Trim | D/W | Cr | Ct | R | Lamda | Trim | D/W | Cr | Ct | R |
| [m/s] | - | [deg] | [%] | 10 ³ | 10 ³ | [lbs] | - | [deg] | [%] | 10 ³ | 10 ³ | [lbs] |
| 1.00 | 15.64 | 1.64 | 0.04 | 9.053 | 12.345 | 2.68 | 7.93 | 1.51 | 0.03 | 16.471 | 20.211 | 2.22 |
| 1.32 | 14.05 | 1.69 | 0.05 | 6.003 | 9.197 | 3.10 | 7.85 | 1.54 | 0.04 | 9.837 | 13.392 | 2.52 |
| 1.63 | 12.90 | 1.74 | 0.05 | 4.391 | 7.512 | 3.57 | 7.76 | 1.59 | 0.04 | 6.658 | 10.080 | 2.88 |
| 1.95 | 11.98 | 1.80 | 0.06 | 3.431 | 6.496 | 4.09 | 7.64 | 1.64 | 0.05 | 4.895 | 8.217 | 3.30 |
| 2.26 | 11.22 | 1.87 | 0.07 | 2.816 | 5.836 | 4.64 | 7.51 | 1.70 | 0.05 | 3.823 | 7.065 | 3.76 |
| 2.58 | 10.55 | 1.94 | 0.08 | 2.401 | 5.385 | 5.23 | 7.35 | 1.76 | 0.06 | 3.126 | 6.306 | 4.27 |
| 2.89 | 9.94 | 2.03 | 0.08 | 2.113 | 5.068 | 5.84 | 7.17 | 1.84 | 0.07 | 2.654 | 5.782 | 4.81 |
| 3.21 | 9.39 | 2.12 | 0.09 | 1.909 | 4.841 | 6.47 | 6.98 | 1.92 | 0.08 | 2.323 | 5.409 | 5.38 |
| 3.53 | 8.86 | 2.23 | 0.10 | 1.764 | 4.678 | 7.12 | 6.76 | 2.02 | 0.09 | 2.086 | 5.139 | 5.98 |
| 3.84 | 8.36 | 2.35 | 0.11 | 1.662 | 4.562 | 7.77 | 6.54 | 2.12 | 0.10 | 1.913 | 4.939 | 6.58 |
| 4.16 | 7.88 | 2.48 | 0.12 | 1.590 | 4.480 | 8.42 | 6.30 | 2.23 | 0.10 | 1.785 | 4.789 | 7.20 |
| 4.47 | 7.43 | 2.62 | 0.13 | 1.538 | 4.422 | 9.06 | 6.05 | 2.34 | 0.11 | 1.686 | 4.673 | 7.81 |
| 4.79 | 7.01 | 2.75 | 0.14 | 1.497 | 4.377 | 9.68 | 5.81 | 2.45 | 0.12 | 1.605 | 4.578 | 8.41 |
| 5.11 | 6.61 | 2.87 | 0.15 | 1.459 | 4.336 | 10.27 | 5.57 | 2.55 | 0.13 | 1.532 | 4.494 | 8.99 |
| 5.42 | 6.26 | 2.97 | 0.16 | 1.415 | 4.290 | 10.83 | 5.35 | 2.63 | 0.14 | 1.460 | 4.411 | 9.56 |
| 5.74 | 5.95 | 3.03 | 0.17 | 1.362 | 4.234 | 11.36 | 5.15 | 2.69 | 0.15 | 1.384 | 4.327 | 10.10 |
| 6.05 | 5.67 | 3.07 | 0.17 | 1.298 | 4.167 | 11.87 | 4.98 | 2.72 | 0.15 | 1.304 | 4.238 | 10.63 |
| 6.37 | 5.44 | 3.07 | 0.18 | 1.225 | 4.090 | 12.35 | 4.82 | 2.73 | 0.16 | 1.221 | 4.145 | 11.14 |
| 6.68 | 5.23 | 3.04 | 0.19 | 1.145 | 4.006 | 12.83 | 4.69 | 2.71 | 0.17 | 1.135 | 4.049 | 11.65 |
| 7.00 | 5.06 | 3.00 | 0.19 | 1.064 | 3.918 | 13.30 | 4.57 | 2.68 | 0.18 | 1.049 | 3.953 | 12.17 |



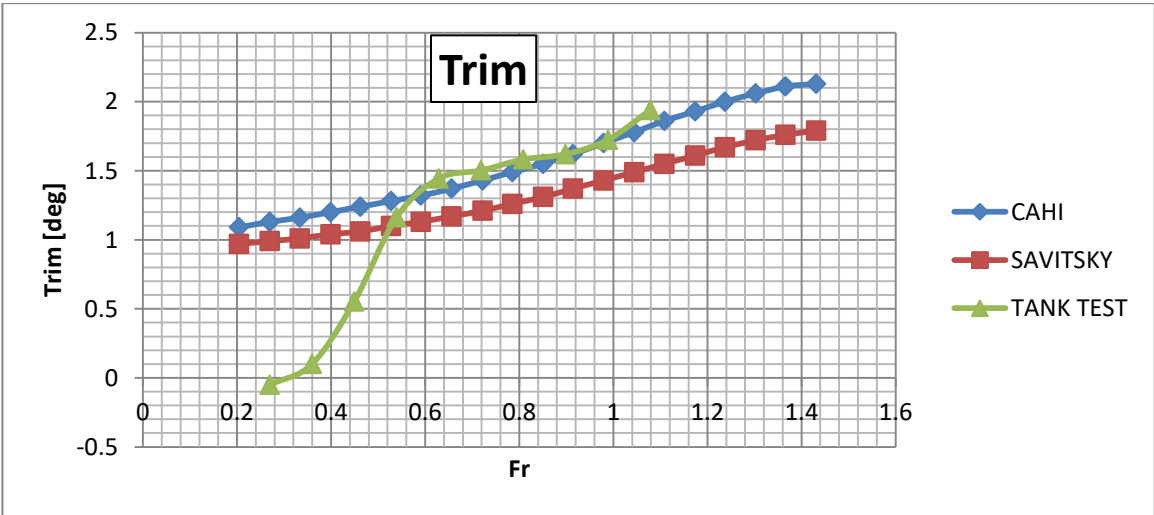
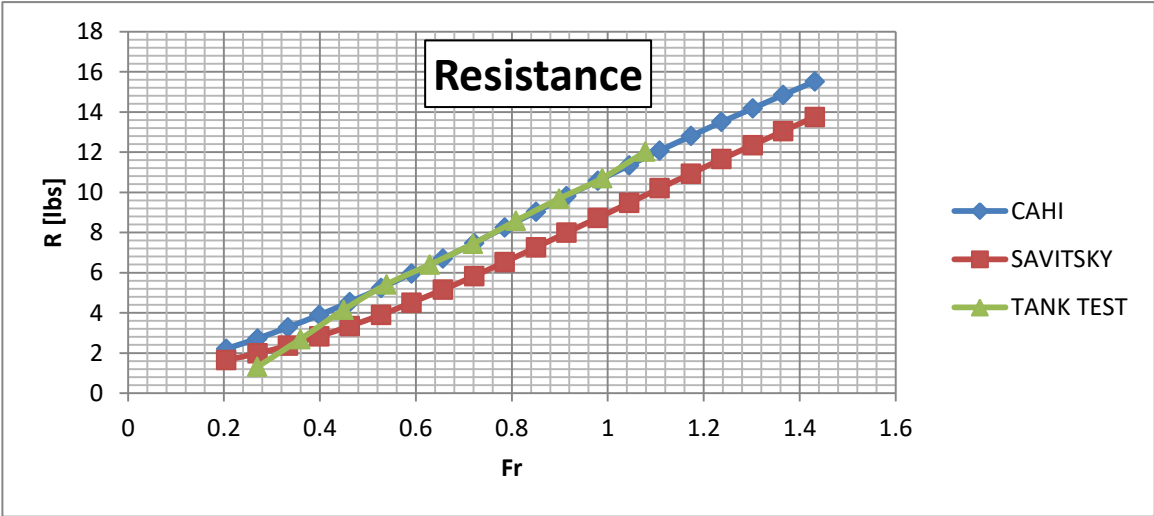
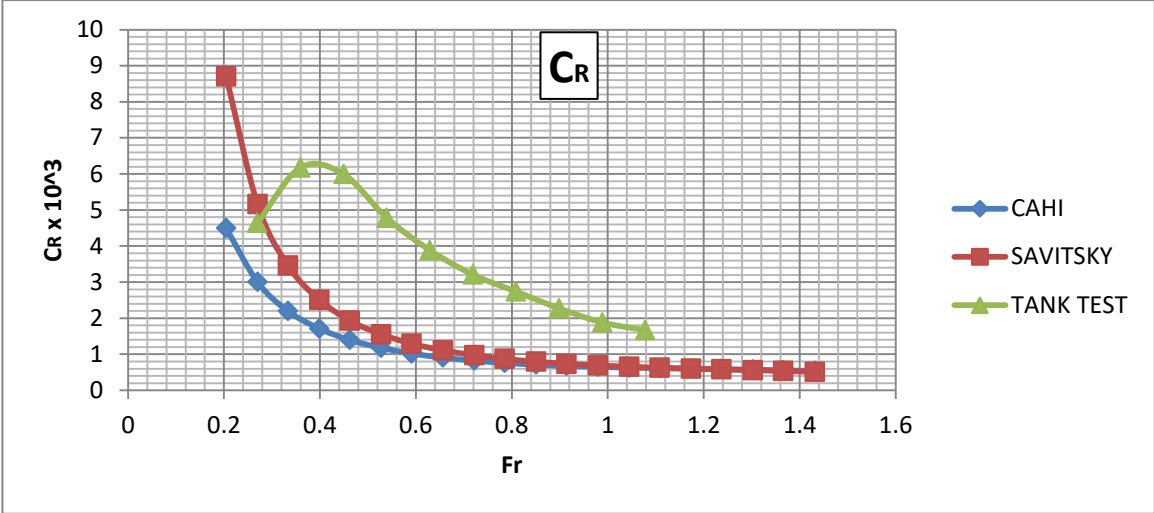
b=12.50 deg Bc=0.35 m Disp=31.17 kp LCG=1.02 m

| ~CAHI~ | | | | | | | ~SAVITSKY~ | | | | | |
|--------|-------|-------|------|-----------------|-----------------|-------|------------|-------|------|-----------------|-----------------|-------|
| Vs | Lamda | Trim | D/W | Cr | Ct | R | Lamda | Trim | D/W | Cr | Ct | R |
| [m/s] | - | [deg] | [%] | 10 ³ | 10 ³ | [lbs] | - | [deg] | [%] | 10 ³ | 10 ³ | [lbs] |
| 1.00 | 18.19 | 1.33 | 0.03 | 6.301 | 9.504 | 2.40 | 8.78 | 1.20 | 0.03 | 11.786 | 15.453 | 1.88 |
| 1.32 | 16.32 | 1.37 | 0.04 | 4.189 | 7.299 | 2.86 | 8.71 | 1.22 | 0.03 | 7.009 | 10.494 | 2.20 |
| 1.63 | 14.97 | 1.41 | 0.05 | 3.063 | 6.103 | 3.37 | 8.63 | 1.25 | 0.04 | 4.716 | 8.071 | 2.57 |
| 1.95 | 13.92 | 1.46 | 0.06 | 2.387 | 5.373 | 3.93 | 8.52 | 1.29 | 0.04 | 3.444 | 6.699 | 3.00 |
| 2.26 | 13.05 | 1.51 | 0.07 | 1.950 | 4.892 | 4.53 | 8.40 | 1.33 | 0.05 | 2.667 | 5.844 | 3.49 |
| 2.58 | 12.29 | 1.56 | 0.08 | 1.652 | 4.558 | 5.16 | 8.26 | 1.37 | 0.06 | 2.160 | 5.273 | 4.02 |
| 2.89 | 11.62 | 1.62 | 0.08 | 1.442 | 4.318 | 5.83 | 8.10 | 1.42 | 0.07 | 1.813 | 4.875 | 4.59 |
| 3.21 | 11.00 | 1.69 | 0.09 | 1.290 | 4.143 | 6.51 | 7.92 | 1.48 | 0.08 | 1.568 | 4.586 | 5.19 |
| 3.53 | 10.43 | 1.76 | 0.10 | 1.179 | 4.013 | 7.21 | 7.73 | 1.54 | 0.08 | 1.390 | 4.373 | 5.82 |
| 3.84 | 9.89 | 1.85 | 0.12 | 1.098 | 3.916 | 7.91 | 7.51 | 1.61 | 0.09 | 1.259 | 4.212 | 6.47 |
| 4.16 | 9.37 | 1.94 | 0.13 | 1.038 | 3.845 | 8.62 | 7.29 | 1.69 | 0.10 | 1.160 | 4.089 | 7.13 |
| 4.47 | 8.88 | 2.03 | 0.14 | 0.995 | 3.793 | 9.32 | 7.05 | 1.77 | 0.11 | 1.086 | 3.994 | 7.80 |
| 4.79 | 8.41 | 2.14 | 0.15 | 0.963 | 3.754 | 10.01 | 6.81 | 1.85 | 0.12 | 1.028 | 3.920 | 8.47 |
| 5.11 | 7.97 | 2.24 | 0.16 | 0.939 | 3.725 | 10.68 | 6.56 | 1.93 | 0.13 | 0.980 | 3.860 | 9.13 |
| 5.42 | 7.55 | 2.33 | 0.16 | 0.917 | 3.700 | 11.33 | 6.32 | 2.01 | 0.14 | 0.939 | 3.808 | 9.78 |
| 5.74 | 7.17 | 2.42 | 0.17 | 0.894 | 3.675 | 11.96 | 6.09 | 2.08 | 0.15 | 0.901 | 3.760 | 10.41 |
| 6.05 | 6.83 | 2.48 | 0.18 | 0.867 | 3.647 | 12.56 | 5.88 | 2.13 | 0.16 | 0.862 | 3.712 | 11.04 |
| 6.37 | 6.52 | 2.52 | 0.19 | 0.835 | 3.613 | 13.15 | 5.68 | 2.17 | 0.17 | 0.822 | 3.664 | 11.65 |
| 6.68 | 6.25 | 2.54 | 0.20 | 0.797 | 3.573 | 13.72 | 5.50 | 2.20 | 0.18 | 0.779 | 3.613 | 12.26 |
| 7.00 | 6.01 | 2.54 | 0.21 | 0.756 | 3.527 | 14.30 | 5.35 | 2.20 | 0.19 | 0.734 | 3.560 | 12.87 |



b=12.50 deg Bc=0.35 m Disp=31.17 kp LCG=1.12 m

| ~CAHI~ | | | | | | | ~SAVITSKY~ | | | | | |
|--------|-------|-------|------|-----------------|-----------------|-------|------------|-------|------|-----------------|-----------------|-------|
| Vs | Lamda | Trim | D/W | Cr | Ct | R | Lamda | Trim | D/W | Cr | Ct | R |
| [m/s] | - | [deg] | [%] | 10 ³ | 10 ³ | [lbs] | - | [deg] | [%] | 10 ³ | 10 ³ | [lbs] |
| 1.00 | 20.89 | 1.09 | 0.03 | 4.497 | 7.621 | 2.21 | 9.63 | 0.97 | 0.02 | 8.706 | 12.308 | 1.65 |
| 1.32 | 18.73 | 1.13 | 0.04 | 3.002 | 6.037 | 2.72 | 9.57 | 0.99 | 0.03 | 5.160 | 8.585 | 1.98 |
| 1.63 | 17.17 | 1.16 | 0.05 | 2.198 | 5.166 | 3.28 | 9.49 | 1.01 | 0.03 | 3.458 | 6.754 | 2.37 |
| 1.95 | 15.97 | 1.20 | 0.06 | 1.712 | 4.627 | 3.89 | 9.40 | 1.04 | 0.04 | 2.512 | 5.710 | 2.83 |
| 2.26 | 14.97 | 1.24 | 0.07 | 1.395 | 4.267 | 4.54 | 9.29 | 1.06 | 0.05 | 1.933 | 5.054 | 3.34 |
| 2.58 | 14.12 | 1.28 | 0.08 | 1.177 | 4.014 | 5.23 | 9.16 | 1.10 | 0.06 | 1.554 | 4.611 | 3.90 |
| 2.89 | 13.38 | 1.32 | 0.09 | 1.021 | 3.830 | 5.96 | 9.01 | 1.13 | 0.07 | 1.294 | 4.299 | 4.51 |
| 3.21 | 12.70 | 1.37 | 0.10 | 0.907 | 3.692 | 6.70 | 8.85 | 1.17 | 0.07 | 1.109 | 4.069 | 5.15 |
| 3.53 | 12.07 | 1.43 | 0.11 | 0.823 | 3.587 | 7.47 | 8.67 | 1.21 | 0.08 | 0.973 | 3.897 | 5.83 |
| 3.84 | 11.49 | 1.49 | 0.12 | 0.759 | 3.507 | 8.25 | 8.47 | 1.26 | 0.10 | 0.872 | 3.764 | 6.53 |
| 4.16 | 10.93 | 1.55 | 0.13 | 0.712 | 3.446 | 9.03 | 8.26 | 1.31 | 0.11 | 0.795 | 3.661 | 7.26 |
| 4.47 | 10.40 | 1.62 | 0.14 | 0.676 | 3.400 | 9.81 | 8.04 | 1.37 | 0.12 | 0.737 | 3.581 | 7.99 |
| 4.79 | 9.90 | 1.70 | 0.15 | 0.649 | 3.365 | 10.58 | 7.81 | 1.43 | 0.13 | 0.691 | 3.517 | 8.73 |
| 5.11 | 9.41 | 1.78 | 0.16 | 0.629 | 3.339 | 11.34 | 7.57 | 1.49 | 0.14 | 0.656 | 3.466 | 9.47 |
| 5.42 | 8.95 | 1.86 | 0.18 | 0.613 | 3.319 | 12.08 | 7.32 | 1.55 | 0.15 | 0.626 | 3.424 | 10.20 |
| 5.74 | 8.51 | 1.93 | 0.19 | 0.600 | 3.303 | 12.80 | 7.08 | 1.61 | 0.16 | 0.602 | 3.389 | 10.93 |
| 6.05 | 8.11 | 2.00 | 0.20 | 0.587 | 3.288 | 13.50 | 6.84 | 1.67 | 0.17 | 0.579 | 3.357 | 11.65 |
| 6.37 | 7.74 | 2.06 | 0.21 | 0.572 | 3.272 | 14.18 | 6.61 | 1.72 | 0.18 | 0.558 | 3.328 | 12.35 |
| 6.68 | 7.40 | 2.11 | 0.22 | 0.555 | 3.253 | 14.85 | 6.40 | 1.76 | 0.19 | 0.536 | 3.298 | 13.05 |
| 7.00 | 7.10 | 2.13 | 0.23 | 0.535 | 3.231 | 15.51 | 6.21 | 1.79 | 0.20 | 0.512 | 3.268 | 13.75 |



Simulation Info:

 27/06/2019 04:50:42 pm

Input Data:

 Ship Speed: from Vs1=1.00 m/s to Vs2=7.00 m/s (for 20 different Ship Speed values)

Ship Displacement: Disp=46.12 kp

Breadth at Chine: Bc=0.35 m

Deadrise Angle: b=12.50 deg

LCG: from LCG1=0.93 m to LCG2=1.12 m (for 3 different LCG values)

Fresh water properties at 23.90C:

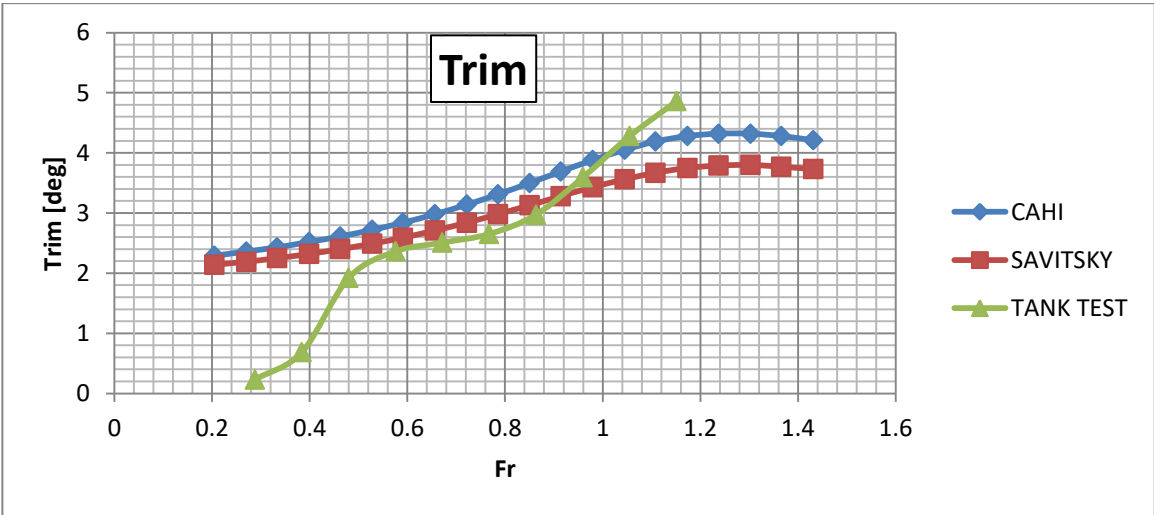
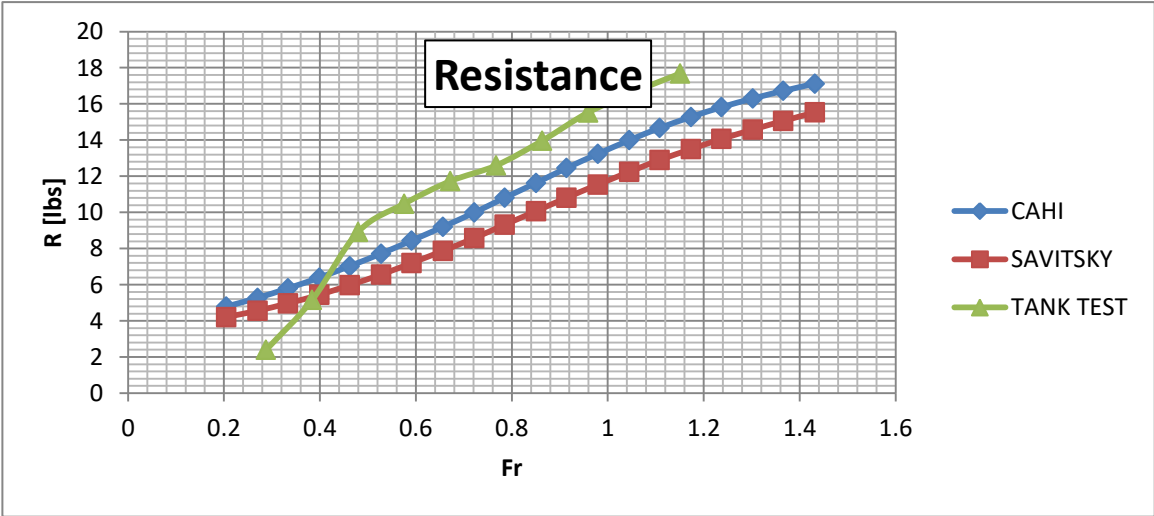
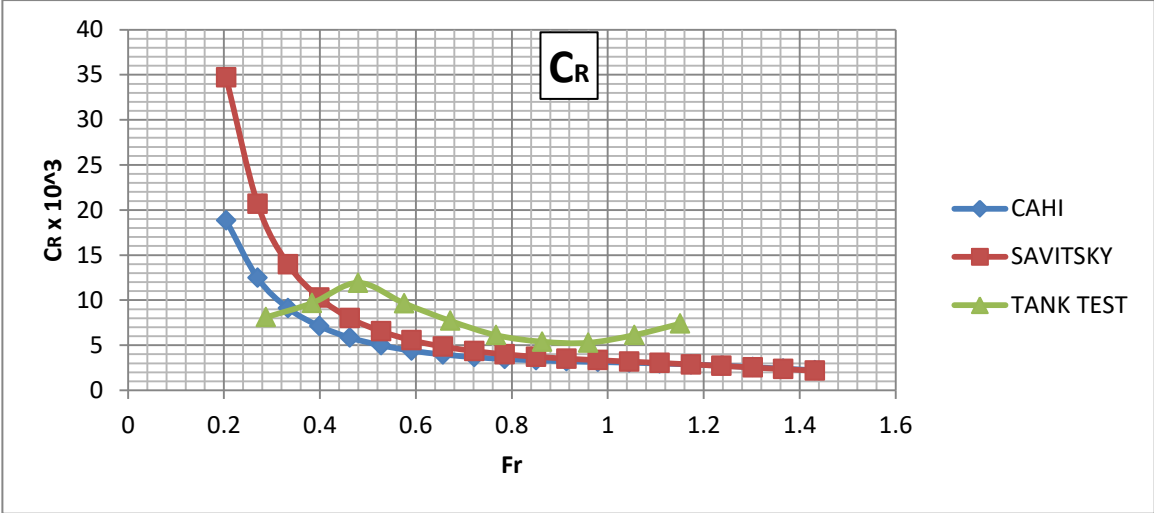
Density=997.22 kg/m³

Viscosity=0.91549*10⁻⁶ m²/s

Results:

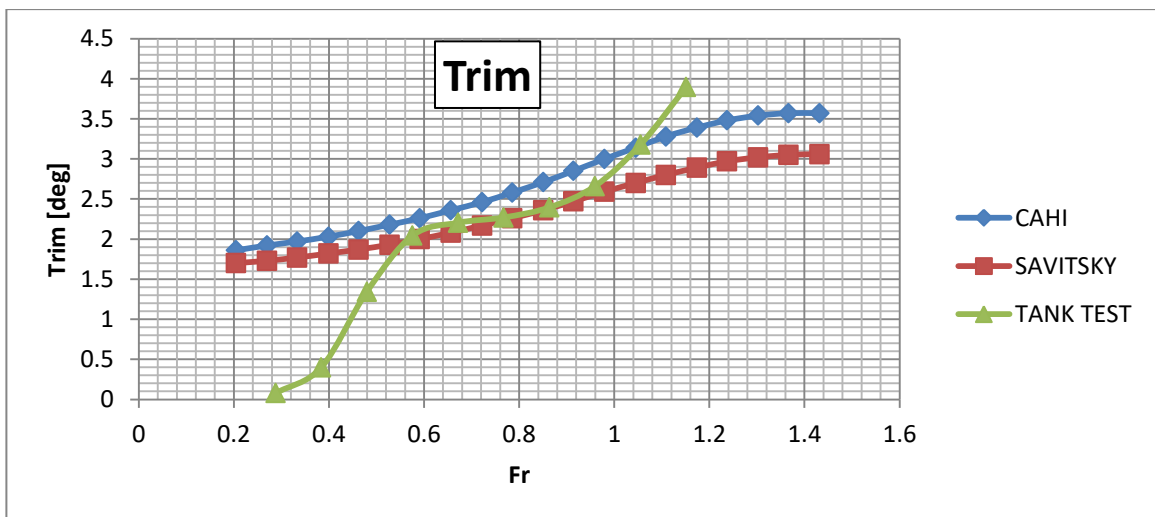
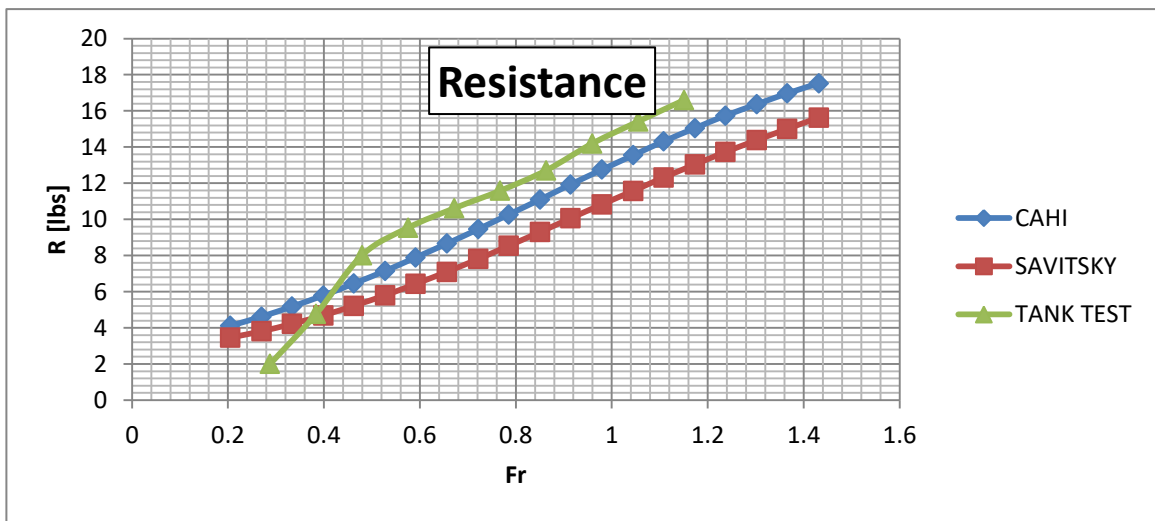
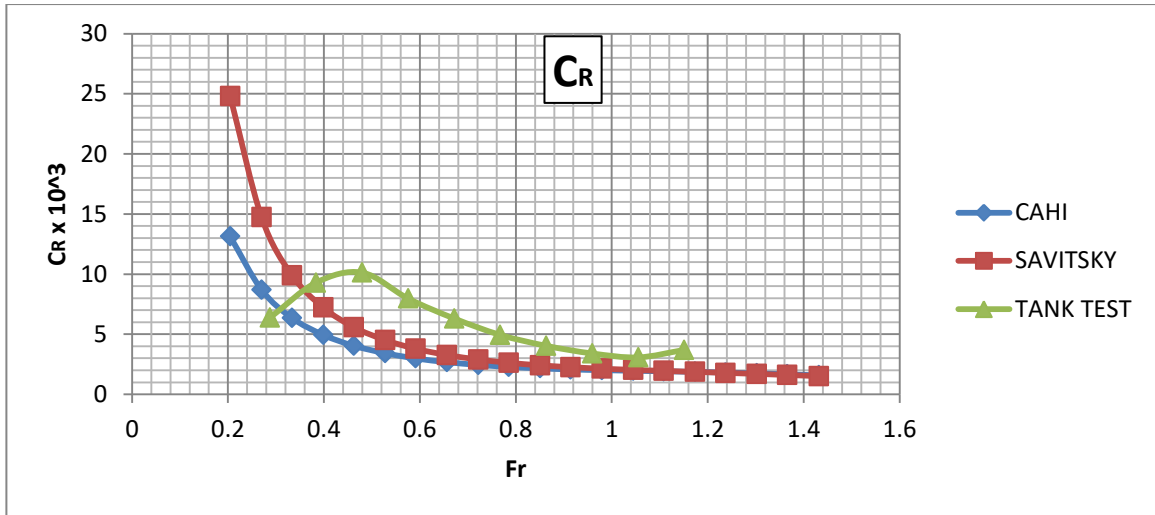
 b=12.50 deg Bc=0.35 m Disp=46.12 kp LCG=0.93 m

| ~CAHI~ | | | | | | | ~SAVITSKY~ | | | | | |
|--------|-------|-------|------|-----------------|-----------------|-------|------------|-------|------|-----------------|-----------------|-------|
| Vs | Lamda | Trim | D/W | Cr | Ct | R | Lamda | Trim | D/W | Cr | Ct | R |
| [m/s] | - | [deg] | [%] | 10 ³ | 10 ³ | [lbs] | - | [deg] | [%] | 10 ³ | 10 ³ | [lbs] |
| 1.00 | 15.64 | 2.29 | 0.05 | 18.848 | 22.140 | 4.79 | 7.93 | 2.14 | 0.04 | 34.705 | 38.446 | 4.21 |
| 1.32 | 14.05 | 2.36 | 0.05 | 12.473 | 15.667 | 5.27 | 7.85 | 2.19 | 0.04 | 20.701 | 24.257 | 4.56 |
| 1.63 | 12.90 | 2.43 | 0.06 | 9.115 | 12.237 | 5.80 | 7.76 | 2.25 | 0.05 | 13.993 | 17.416 | 4.97 |
| 1.95 | 11.98 | 2.52 | 0.06 | 7.123 | 10.188 | 6.39 | 7.64 | 2.32 | 0.05 | 10.277 | 13.599 | 5.44 |
| 2.26 | 11.22 | 2.61 | 0.07 | 5.848 | 8.869 | 7.03 | 7.51 | 2.40 | 0.06 | 8.016 | 11.260 | 5.98 |
| 2.58 | 10.55 | 2.72 | 0.08 | 4.990 | 7.975 | 7.72 | 7.35 | 2.49 | 0.06 | 6.549 | 9.729 | 6.56 |
| 2.89 | 9.94 | 2.84 | 0.08 | 4.396 | 7.352 | 8.44 | 7.17 | 2.59 | 0.07 | 5.553 | 8.683 | 7.20 |
| 3.21 | 9.39 | 2.98 | 0.09 | 3.977 | 6.910 | 9.20 | 6.98 | 2.71 | 0.08 | 4.856 | 7.944 | 7.87 |
| 3.53 | 8.86 | 3.14 | 0.10 | 3.680 | 6.595 | 9.99 | 6.76 | 2.84 | 0.08 | 4.357 | 7.411 | 8.58 |
| 3.84 | 8.36 | 3.31 | 0.11 | 3.472 | 6.374 | 10.81 | 6.54 | 2.98 | 0.09 | 3.994 | 7.021 | 9.32 |
| 4.16 | 7.88 | 3.50 | 0.11 | 3.328 | 6.219 | 11.63 | 6.30 | 3.13 | 0.10 | 3.723 | 6.729 | 10.07 |
| 4.47 | 7.43 | 3.69 | 0.12 | 3.225 | 6.110 | 12.45 | 6.05 | 3.28 | 0.11 | 3.514 | 6.503 | 10.81 |
| 4.79 | 7.01 | 3.88 | 0.13 | 3.144 | 6.025 | 13.24 | 5.81 | 3.43 | 0.11 | 3.343 | 6.317 | 11.54 |
| 5.11 | 6.61 | 4.05 | 0.14 | 3.066 | 5.945 | 13.99 | 5.57 | 3.56 | 0.12 | 3.188 | 6.151 | 12.24 |
| 5.42 | 6.26 | 4.19 | 0.14 | 2.976 | 5.853 | 14.67 | 5.35 | 3.67 | 0.13 | 3.035 | 5.989 | 12.90 |
| 5.74 | 5.95 | 4.28 | 0.15 | 2.865 | 5.739 | 15.28 | 5.15 | 3.75 | 0.13 | 2.876 | 5.821 | 13.50 |
| 6.05 | 5.67 | 4.32 | 0.16 | 2.729 | 5.601 | 15.82 | 4.98 | 3.79 | 0.14 | 2.708 | 5.643 | 14.06 |
| 6.37 | 5.44 | 4.32 | 0.16 | 2.573 | 5.441 | 16.30 | 4.82 | 3.80 | 0.14 | 2.532 | 5.457 | 14.58 |
| 6.68 | 5.23 | 4.28 | 0.16 | 2.404 | 5.267 | 16.72 | 4.69 | 3.77 | 0.15 | 2.352 | 5.267 | 15.06 |
| 7.00 | 5.06 | 4.21 | 0.17 | 2.229 | 5.086 | 17.12 | 4.57 | 3.73 | 0.15 | 2.172 | 5.077 | 15.53 |



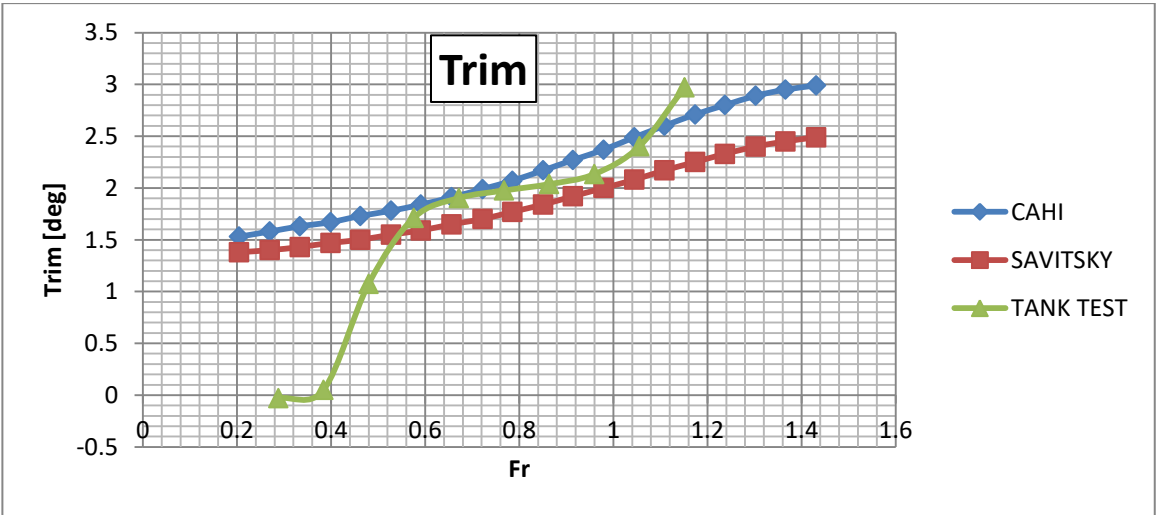
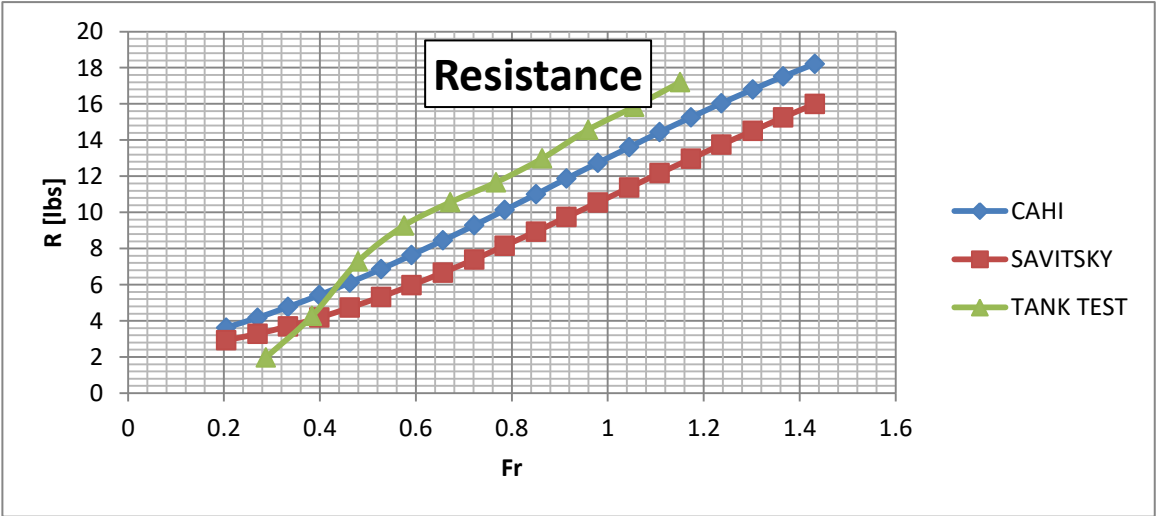
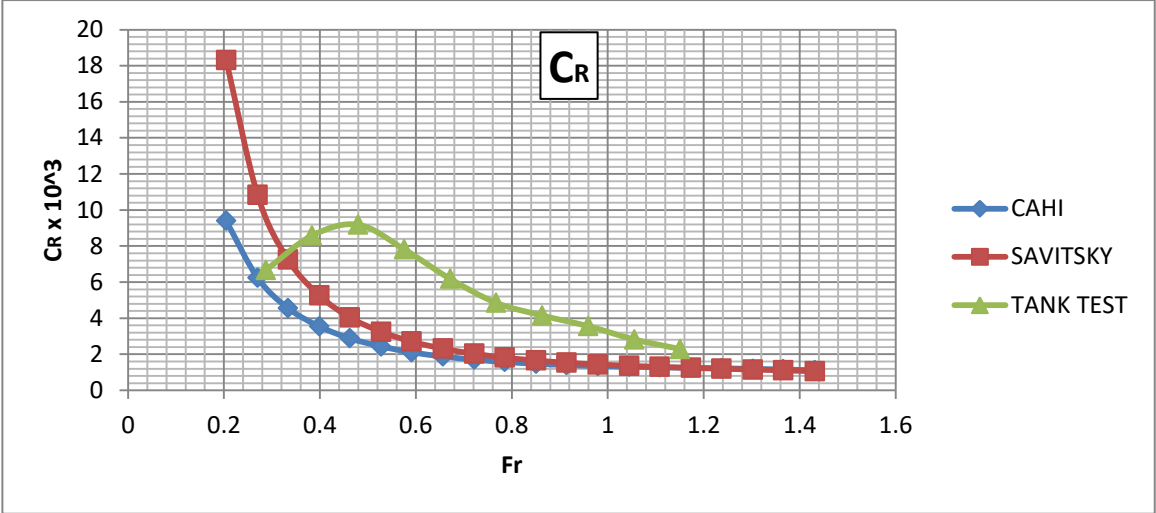
b=12.50 deg Bc=0.35 m Disp=46.12 kp LCG=1.02 m

| ~CAHI~ | | | | | | | ~SAVITSKY~ | | | | | |
|-------------|------------|---------------|------------|-----------------------|-----------------------|------------|------------|---------------|------------|-----------------------|-----------------------|------------|
| Vs [m/s] | Lamda - | Trim [deg] | D/W [%] | Cr 10 ³ | Ct 10 ³ | R [lbs] | Lamda - | Trim [deg] | D/W [%] | Cr 10 ³ | Ct 10 ³ | R [lbs] |
| 1.00 | 18.19 | 1.86 | 0.04 | 13.132 | 16.335 | 4.11 | 8.78 | 1.70 | 0.03 | 24.814 | 28.481 | 3.46 |
| 1.32 | 16.32 | 1.92 | 0.05 | 8.701 | 11.811 | 4.62 | 8.71 | 1.73 | 0.04 | 14.736 | 18.221 | 3.81 |
| 1.63 | 14.97 | 1.97 | 0.05 | 6.350 | 9.390 | 5.18 | 8.63 | 1.77 | 0.04 | 9.903 | 13.259 | 4.22 |
| 1.95 | 13.92 | 2.03 | 0.06 | 4.945 | 7.931 | 5.79 | 8.52 | 1.82 | 0.05 | 7.222 | 10.479 | 4.69 |
| 2.26 | 13.05 | 2.10 | 0.06 | 4.038 | 6.980 | 6.45 | 8.40 | 1.87 | 0.05 | 5.586 | 8.764 | 5.22 |
| 2.58 | 12.29 | 2.18 | 0.07 | 3.422 | 6.328 | 7.15 | 8.26 | 1.93 | 0.06 | 4.519 | 7.633 | 5.80 |
| 2.89 | 11.62 | 2.26 | 0.08 | 2.987 | 5.865 | 7.89 | 8.10 | 2.00 | 0.06 | 3.789 | 6.852 | 6.43 |
| 3.21 | 11.00 | 2.36 | 0.09 | 2.675 | 5.528 | 8.66 | 7.92 | 2.08 | 0.07 | 3.273 | 6.293 | 7.10 |
| 3.53 | 10.43 | 2.46 | 0.09 | 2.447 | 5.281 | 9.46 | 7.73 | 2.17 | 0.08 | 2.899 | 5.883 | 7.81 |
| 3.84 | 9.89 | 2.58 | 0.10 | 2.281 | 5.100 | 10.27 | 7.51 | 2.26 | 0.08 | 2.623 | 5.577 | 8.54 |
| 4.16 | 9.37 | 2.71 | 0.11 | 2.160 | 4.967 | 11.10 | 7.29 | 2.36 | 0.09 | 2.416 | 5.346 | 9.30 |
| 4.47 | 8.88 | 2.85 | 0.12 | 2.073 | 4.871 | 11.93 | 7.05 | 2.47 | 0.10 | 2.259 | 5.168 | 10.06 |
| 4.79 | 8.41 | 3.00 | 0.13 | 2.009 | 4.801 | 12.75 | 6.81 | 2.59 | 0.11 | 2.136 | 5.029 | 10.83 |
| 5.11 | 7.97 | 3.14 | 0.13 | 1.960 | 4.747 | 13.55 | 6.56 | 2.70 | 0.11 | 2.036 | 4.916 | 11.58 |
| 5.42 | 7.55 | 3.28 | 0.14 | 1.915 | 4.700 | 14.32 | 6.32 | 2.80 | 0.12 | 1.949 | 4.818 | 12.32 |
| 5.74 | 7.17 | 3.39 | 0.15 | 1.868 | 4.652 | 15.05 | 6.09 | 2.89 | 0.13 | 1.868 | 4.728 | 13.04 |
| 6.05 | 6.83 | 3.48 | 0.15 | 1.813 | 4.594 | 15.74 | 5.88 | 2.97 | 0.13 | 1.786 | 4.637 | 13.73 |
| 6.37 | 6.52 | 3.54 | 0.16 | 1.746 | 4.525 | 16.37 | 5.68 | 3.02 | 0.14 | 1.700 | 4.544 | 14.38 |
| 6.68 | 6.25 | 3.57 | 0.17 | 1.667 | 4.443 | 16.97 | 5.50 | 3.05 | 0.15 | 1.610 | 4.446 | 15.01 |
| 7.00 | 6.01 | 3.57 | 0.17 | 1.578 | 4.351 | 17.53 | 5.35 | 3.06 | 0.15 | 1.516 | 4.344 | 15.63 |



b=12.50 deg Bc=0.35 m Disp=46.12 kp LCG=1.12 m

| ~CAHI~ | | | | | | | ~SAVITSKY~ | | | | | |
|-------------|------------|---------------|------------|-----------------------|-----------------------|------------|------------|---------------|------------|-----------------------|-----------------------|------------|
| Vs [m/s] | Lamda - | Trim [deg] | D/W [%] | Cr 10 ³ | Ct 10 ³ | R [lbs] | Lamda - | Trim [deg] | D/W [%] | Cr 10 ³ | Ct 10 ³ | R [lbs] |
| 1.00 | 20.89 | 1.53 | 0.04 | 9.401 | 12.526 | 3.63 | 9.63 | 1.38 | 0.03 | 18.320 | 21.922 | 2.93 |
| 1.32 | 18.73 | 1.58 | 0.04 | 6.245 | 9.280 | 4.17 | 9.57 | 1.40 | 0.03 | 10.843 | 14.268 | 3.28 |
| 1.63 | 17.17 | 1.63 | 0.05 | 4.558 | 7.526 | 4.77 | 9.49 | 1.43 | 0.04 | 7.256 | 10.553 | 3.70 |
| 1.95 | 15.97 | 1.67 | 0.05 | 3.544 | 6.459 | 5.42 | 9.40 | 1.47 | 0.04 | 5.264 | 8.463 | 4.18 |
| 2.26 | 14.97 | 1.73 | 0.06 | 2.884 | 5.757 | 6.12 | 9.29 | 1.50 | 0.05 | 4.046 | 7.167 | 4.73 |
| 2.58 | 14.12 | 1.78 | 0.07 | 2.432 | 5.270 | 6.86 | 9.16 | 1.55 | 0.05 | 3.249 | 6.307 | 5.33 |
| 2.89 | 13.38 | 1.84 | 0.08 | 2.111 | 4.920 | 7.64 | 9.01 | 1.59 | 0.06 | 2.702 | 5.708 | 5.97 |
| 3.21 | 12.70 | 1.91 | 0.08 | 1.876 | 4.661 | 8.45 | 8.85 | 1.65 | 0.07 | 2.313 | 5.274 | 6.67 |
| 3.53 | 12.07 | 1.99 | 0.09 | 1.702 | 4.467 | 9.28 | 8.67 | 1.70 | 0.07 | 2.028 | 4.952 | 7.40 |
| 3.84 | 11.49 | 2.07 | 0.10 | 1.572 | 4.320 | 10.13 | 8.47 | 1.77 | 0.08 | 1.815 | 4.708 | 8.16 |
| 4.16 | 10.93 | 2.17 | 0.11 | 1.474 | 4.209 | 11.00 | 8.26 | 1.84 | 0.09 | 1.654 | 4.521 | 8.94 |
| 4.47 | 10.40 | 2.27 | 0.12 | 1.401 | 4.126 | 11.87 | 8.04 | 1.92 | 0.10 | 1.531 | 4.375 | 9.74 |
| 4.79 | 9.90 | 2.37 | 0.13 | 1.347 | 4.064 | 12.74 | 7.81 | 2.00 | 0.10 | 1.435 | 4.261 | 10.55 |
| 5.11 | 9.41 | 2.49 | 0.13 | 1.307 | 4.018 | 13.60 | 7.57 | 2.08 | 0.11 | 1.360 | 4.170 | 11.37 |
| 5.42 | 8.95 | 2.60 | 0.14 | 1.275 | 3.982 | 14.44 | 7.32 | 2.17 | 0.12 | 1.298 | 4.096 | 12.17 |
| 5.74 | 8.51 | 2.71 | 0.15 | 1.248 | 3.952 | 15.26 | 7.08 | 2.25 | 0.13 | 1.246 | 4.033 | 12.97 |
| 6.05 | 8.11 | 2.80 | 0.16 | 1.221 | 3.923 | 16.04 | 6.84 | 2.33 | 0.14 | 1.198 | 3.977 | 13.75 |
| 6.37 | 7.74 | 2.89 | 0.17 | 1.191 | 3.892 | 16.80 | 6.61 | 2.40 | 0.14 | 1.152 | 3.923 | 14.51 |
| 6.68 | 7.40 | 2.95 | 0.17 | 1.156 | 3.855 | 17.52 | 6.40 | 2.45 | 0.15 | 1.106 | 3.869 | 15.26 |
| 7.00 | 7.10 | 2.99 | 0.18 | 1.114 | 3.811 | 18.21 | 6.21 | 2.49 | 0.16 | 1.057 | 3.814 | 15.99 |



Simulation Info:

 28/06/2019 06:47:01 pm

Input Data:

 Ship Speed: from Vs1=1.00 m/s to Vs2=6.00 m/s (for 20 different Ship Speed values)

Ship Displacement: Disp=12.18 kp

Breadth at Chine: Bc=0.37 m

Deadrise Angle: b=19.00 deg

LCG: from LCG1=0.63 m to LCG2=0.75 m (for 3 different LCG values)

Fresh water properties at 17.50C:

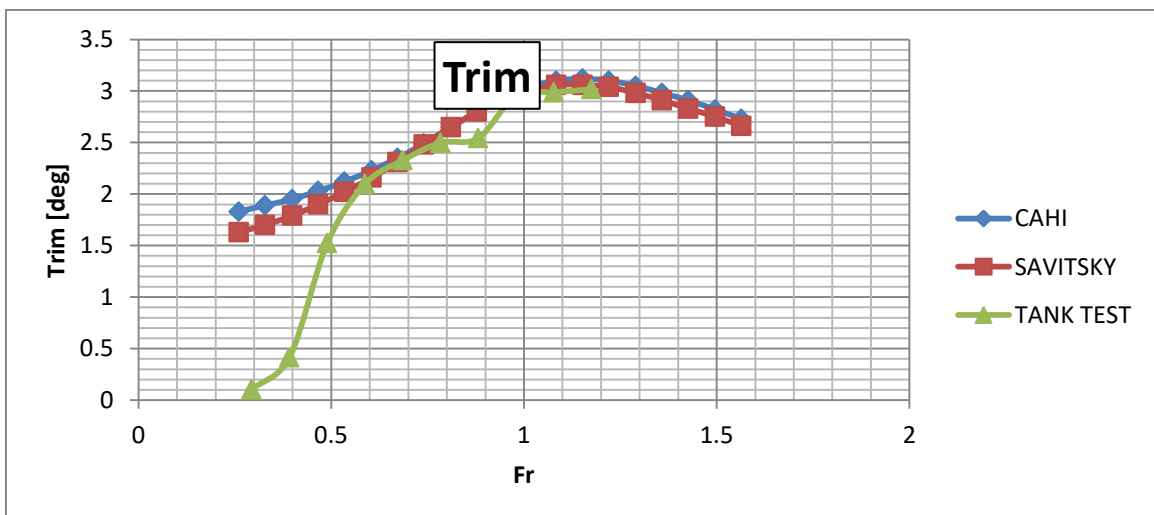
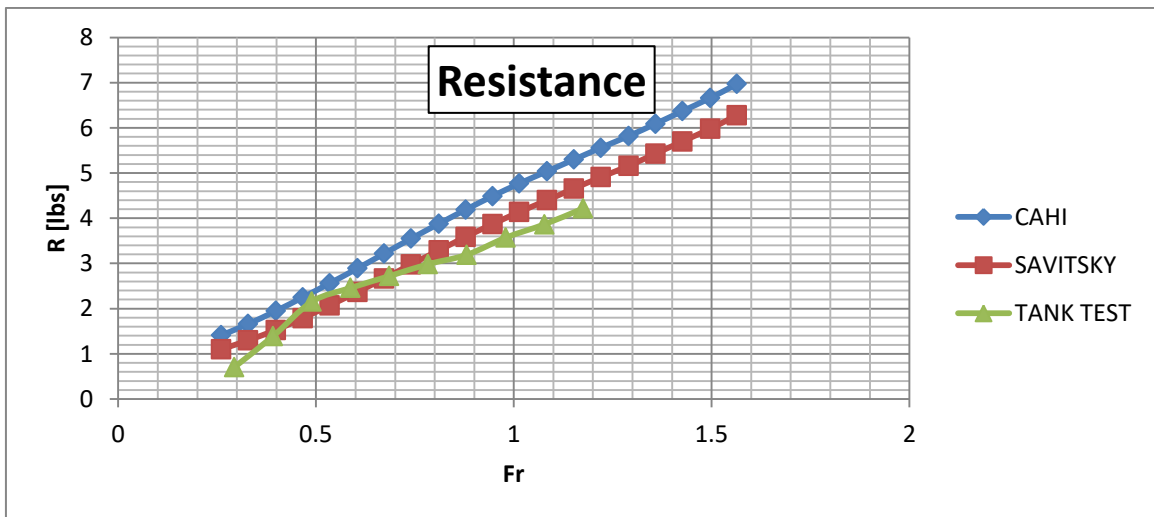
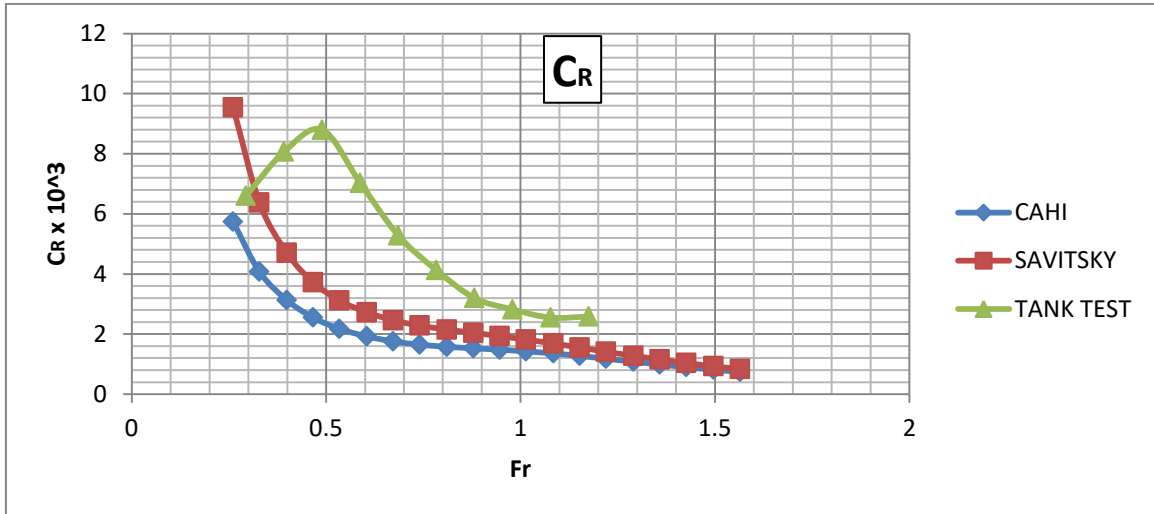
Density=998.60 kg/m³

Viscosity=1.06792*10⁻⁶ m²/s

Results:

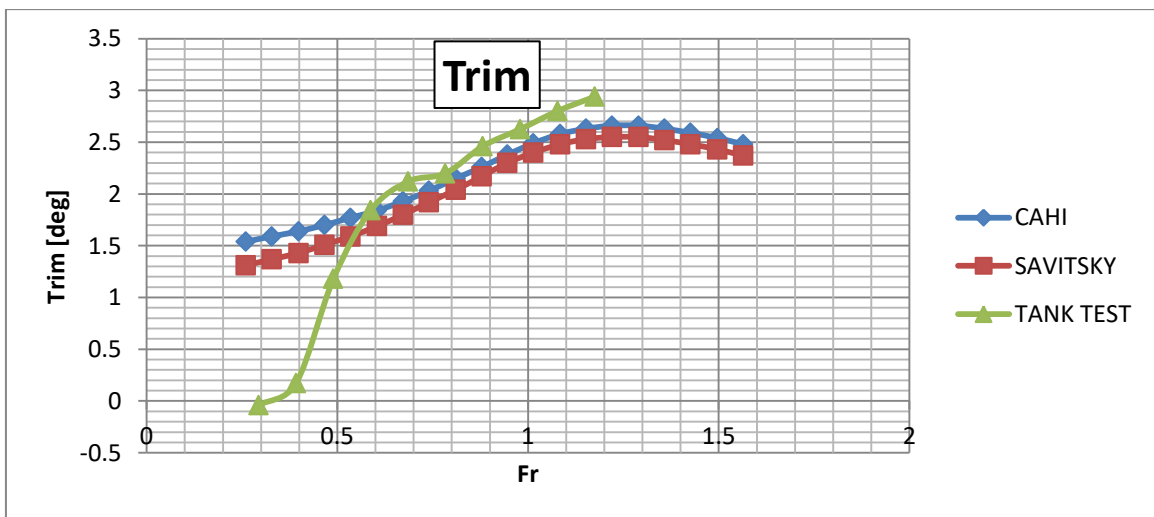
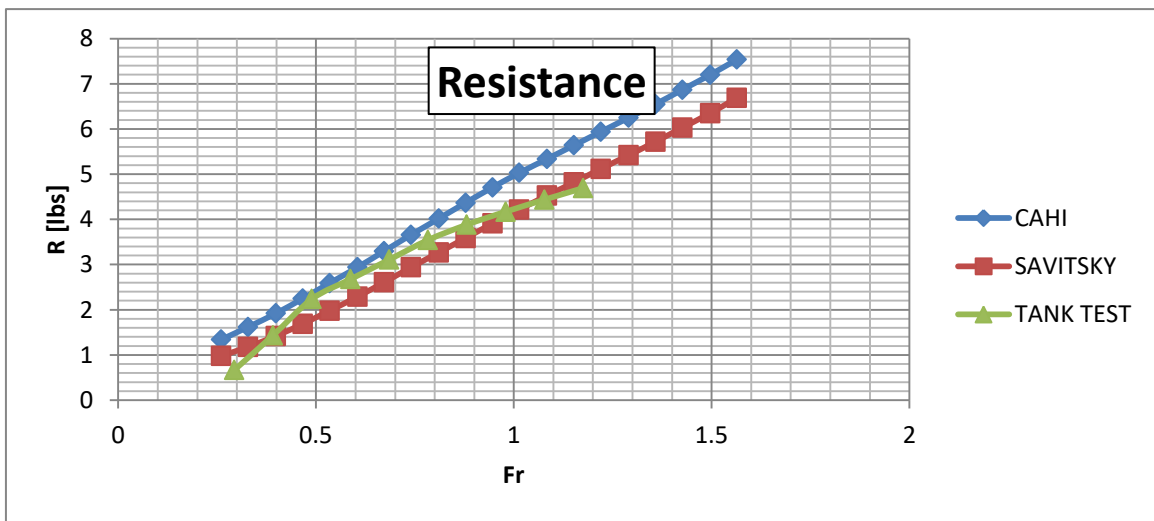
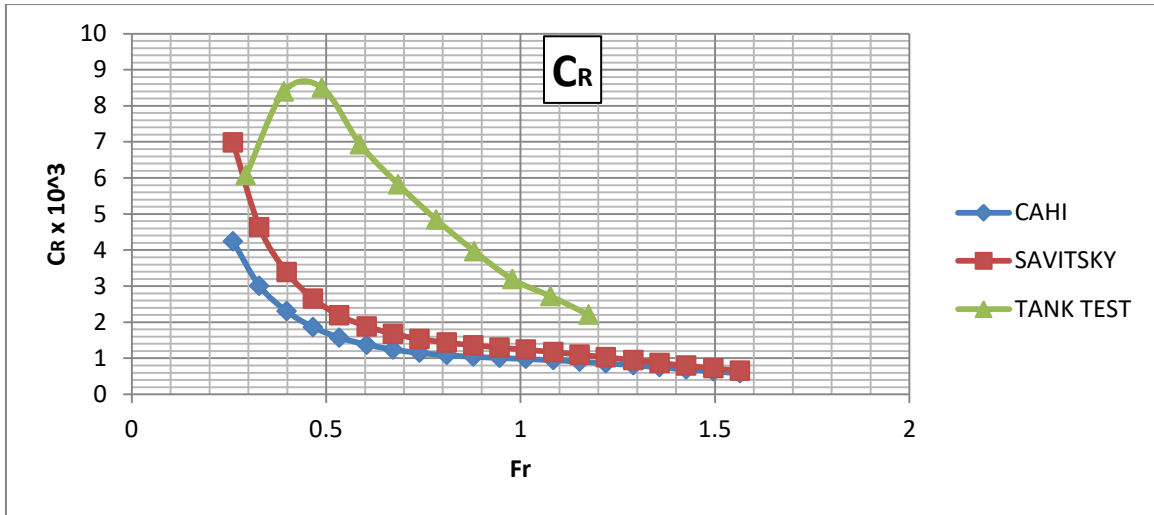
 b=19.00 deg Bc=0.37 m Disp=12.18 kp LCG=0.63 m

| ~CAHI~ | | | | | | | ~SAVITSKY~ | | | | | |
|--------|-------|-------|------|-----------------|-----------------|-------|------------|-------|------|-----------------|-----------------|-------|
| Vs | Lamda | Trim | D/W | Cr | Ct | R | Lamda | Trim | D/W | Cr | Ct | R |
| [m/s] | - | [deg] | [%] | 10 ³ | 10 ³ | [lbs] | - | [deg] | [%] | 10 ³ | 10 ³ | [lbs] |
| 1.00 | 9.42 | 1.83 | 0.05 | 5.738 | 9.428 | 1.41 | 5.03 | 1.63 | 0.04 | 9.542 | 13.721 | 1.10 |
| 1.26 | 8.58 | 1.89 | 0.06 | 4.072 | 7.664 | 1.66 | 4.94 | 1.70 | 0.05 | 6.375 | 10.375 | 1.30 |
| 1.53 | 7.92 | 1.95 | 0.07 | 3.129 | 6.647 | 1.95 | 4.83 | 1.79 | 0.06 | 4.703 | 8.573 | 1.53 |
| 1.79 | 7.37 | 2.03 | 0.08 | 2.547 | 6.010 | 2.25 | 4.70 | 1.90 | 0.07 | 3.725 | 7.497 | 1.79 |
| 2.05 | 6.87 | 2.12 | 0.10 | 2.171 | 5.591 | 2.56 | 4.55 | 2.02 | 0.08 | 3.116 | 6.812 | 2.07 |
| 2.32 | 6.42 | 2.23 | 0.11 | 1.922 | 5.309 | 2.89 | 4.38 | 2.16 | 0.09 | 2.722 | 6.360 | 2.37 |
| 2.58 | 5.99 | 2.35 | 0.12 | 1.756 | 5.120 | 3.22 | 4.19 | 2.31 | 0.10 | 2.460 | 6.055 | 2.67 |
| 2.84 | 5.58 | 2.49 | 0.13 | 1.648 | 4.995 | 3.55 | 4.00 | 2.48 | 0.11 | 2.281 | 5.843 | 2.98 |
| 3.11 | 5.19 | 2.65 | 0.14 | 1.577 | 4.914 | 3.88 | 3.80 | 2.65 | 0.12 | 2.151 | 5.687 | 3.29 |
| 3.37 | 4.83 | 2.80 | 0.16 | 1.526 | 4.859 | 4.19 | 3.61 | 2.80 | 0.13 | 2.041 | 5.558 | 3.59 |
| 3.63 | 4.50 | 2.94 | 0.17 | 1.480 | 4.810 | 4.49 | 3.43 | 2.93 | 0.14 | 1.932 | 5.434 | 3.87 |
| 3.89 | 4.22 | 3.04 | 0.18 | 1.425 | 4.753 | 4.77 | 3.27 | 3.01 | 0.15 | 1.815 | 5.301 | 4.14 |
| 4.16 | 3.97 | 3.10 | 0.19 | 1.356 | 4.680 | 5.04 | 3.14 | 3.06 | 0.16 | 1.686 | 5.157 | 4.40 |
| 4.42 | 3.77 | 3.12 | 0.20 | 1.272 | 4.591 | 5.30 | 3.03 | 3.06 | 0.17 | 1.550 | 5.005 | 4.66 |
| 4.68 | 3.60 | 3.10 | 0.21 | 1.179 | 4.490 | 5.56 | 2.93 | 3.04 | 0.18 | 1.412 | 4.851 | 4.91 |
| 4.95 | 3.46 | 3.05 | 0.22 | 1.082 | 4.385 | 5.82 | 2.86 | 2.98 | 0.19 | 1.278 | 4.699 | 5.16 |
| 5.21 | 3.35 | 2.98 | 0.23 | 0.988 | 4.280 | 6.09 | 2.79 | 2.91 | 0.20 | 1.152 | 4.554 | 5.43 |
| 5.47 | 3.25 | 2.91 | 0.24 | 0.898 | 4.178 | 6.37 | 2.74 | 2.83 | 0.21 | 1.035 | 4.418 | 5.70 |
| 5.74 | 3.16 | 2.82 | 0.25 | 0.815 | 4.083 | 6.66 | 2.69 | 2.75 | 0.22 | 0.928 | 4.293 | 5.98 |
| 6.00 | 3.09 | 2.73 | 0.26 | 0.739 | 3.994 | 6.97 | 2.65 | 2.66 | 0.23 | 0.833 | 4.179 | 6.28 |



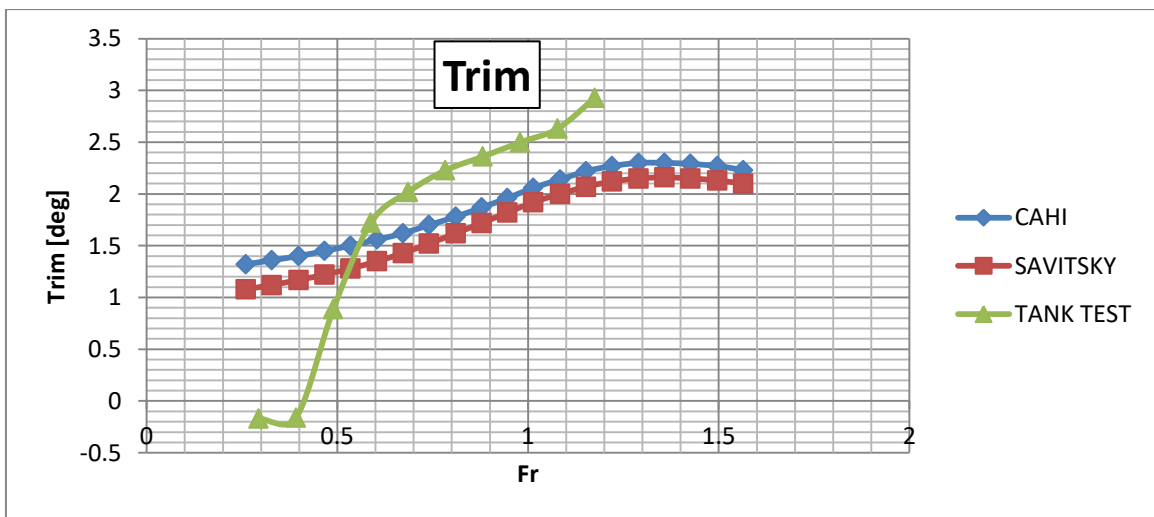
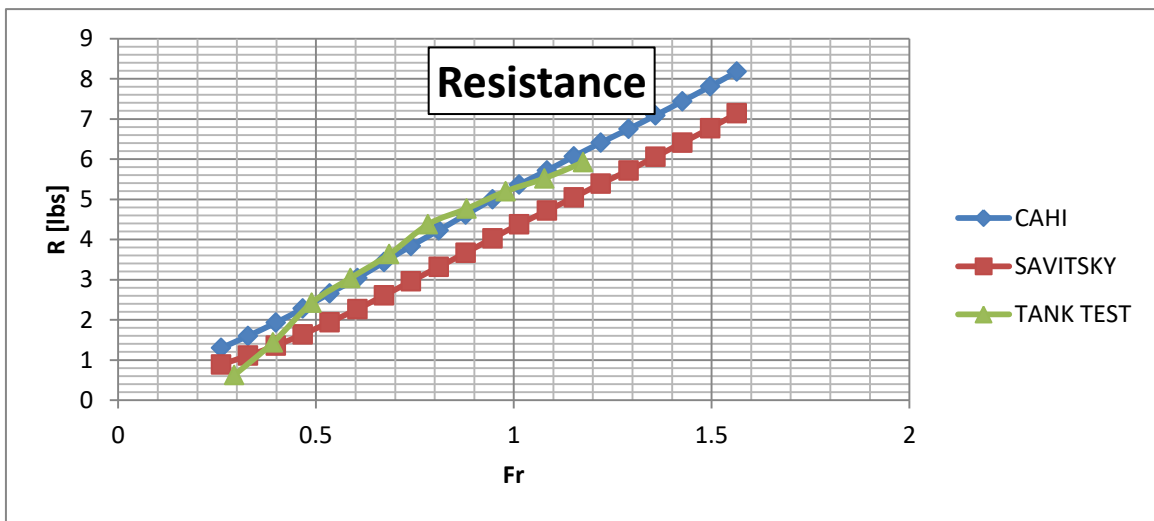
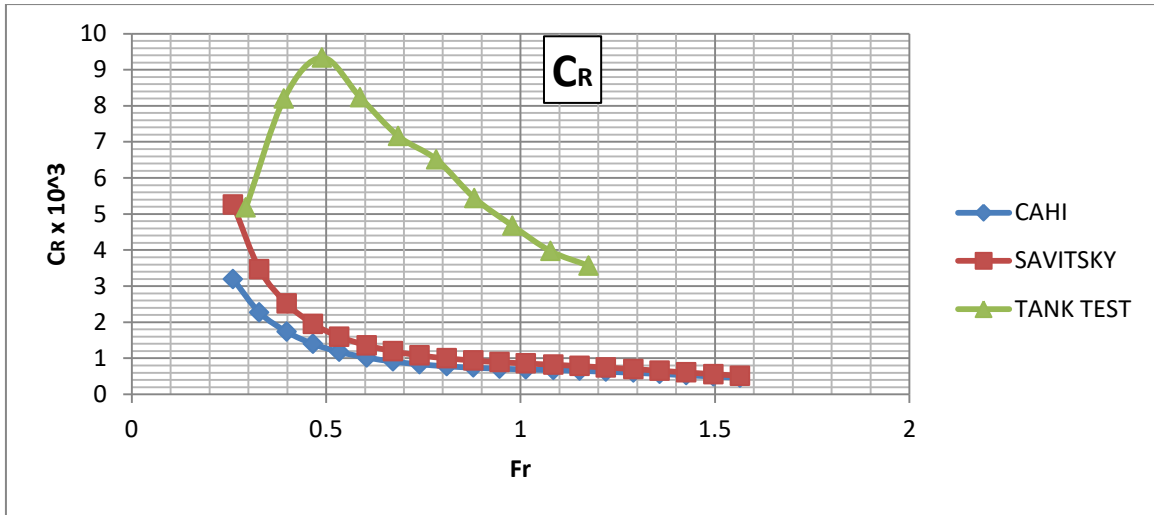
b=19.00 deg Bc=0.37 m Disp=12.18 kp LCG=0.69 m

| ~CAHI~ | | | | | | | ~SAVITSKY~ | | | | | |
|-------------|------------|---------------|------------|-----------------------|-----------------------|------------|------------|---------------|------------|-----------------------|-----------------------|------------|
| Vs [m/s] | Lamda - | Trim [deg] | D/W [%] | Cr 10 ³ | Ct 10 ³ | R [lbs] | Lamda - | Trim [deg] | D/W [%] | Cr 10 ³ | Ct 10 ³ | R [lbs] |
| 1.00 | 10.75 | 1.54 | 0.05 | 4.238 | 7.835 | 1.34 | 5.54 | 1.31 | 0.04 | 6.986 | 11.084 | 0.98 |
| 1.26 | 9.80 | 1.59 | 0.06 | 3.006 | 6.508 | 1.62 | 5.46 | 1.37 | 0.04 | 4.631 | 8.552 | 1.18 |
| 1.53 | 9.05 | 1.64 | 0.07 | 2.301 | 5.732 | 1.92 | 5.36 | 1.43 | 0.05 | 3.384 | 7.175 | 1.42 |
| 1.79 | 8.43 | 1.70 | 0.08 | 1.861 | 5.237 | 2.25 | 5.24 | 1.51 | 0.06 | 2.649 | 6.342 | 1.69 |
| 2.05 | 7.89 | 1.77 | 0.10 | 1.572 | 4.905 | 2.59 | 5.10 | 1.59 | 0.07 | 2.186 | 5.802 | 1.98 |
| 2.32 | 7.40 | 1.84 | 0.11 | 1.376 | 4.675 | 2.94 | 4.94 | 1.69 | 0.09 | 1.882 | 5.437 | 2.29 |
| 2.58 | 6.94 | 1.93 | 0.12 | 1.241 | 4.513 | 3.30 | 4.77 | 1.80 | 0.10 | 1.676 | 5.183 | 2.61 |
| 2.84 | 6.51 | 2.03 | 0.14 | 1.147 | 4.401 | 3.66 | 4.58 | 1.92 | 0.11 | 1.534 | 5.004 | 2.94 |
| 3.11 | 6.10 | 2.15 | 0.15 | 1.084 | 4.324 | 4.02 | 4.38 | 2.04 | 0.12 | 1.434 | 4.875 | 3.27 |
| 3.37 | 5.70 | 2.26 | 0.16 | 1.041 | 4.272 | 4.37 | 4.19 | 2.17 | 0.13 | 1.359 | 4.778 | 3.59 |
| 3.63 | 5.34 | 2.38 | 0.18 | 1.008 | 4.235 | 4.71 | 3.99 | 2.30 | 0.15 | 1.296 | 4.698 | 3.91 |
| 3.89 | 5.00 | 2.49 | 0.19 | 0.979 | 4.204 | 5.03 | 3.81 | 2.40 | 0.16 | 1.235 | 4.623 | 4.22 |
| 4.16 | 4.70 | 2.58 | 0.20 | 0.946 | 4.169 | 5.34 | 3.65 | 2.48 | 0.17 | 1.171 | 4.546 | 4.53 |
| 4.42 | 4.45 | 2.63 | 0.21 | 0.906 | 4.126 | 5.64 | 3.50 | 2.53 | 0.18 | 1.101 | 4.462 | 4.82 |
| 4.68 | 4.23 | 2.66 | 0.22 | 0.858 | 4.074 | 5.94 | 3.38 | 2.55 | 0.19 | 1.025 | 4.373 | 5.12 |
| 4.95 | 4.04 | 2.66 | 0.23 | 0.804 | 4.014 | 6.25 | 3.28 | 2.55 | 0.20 | 0.947 | 4.281 | 5.42 |
| 5.21 | 3.89 | 2.63 | 0.24 | 0.747 | 3.950 | 6.55 | 3.19 | 2.52 | 0.21 | 0.869 | 4.188 | 5.72 |
| 5.47 | 3.76 | 2.59 | 0.26 | 0.690 | 3.884 | 6.87 | 3.11 | 2.48 | 0.22 | 0.793 | 4.097 | 6.03 |
| 5.74 | 3.64 | 2.54 | 0.27 | 0.634 | 3.819 | 7.20 | 3.05 | 2.43 | 0.24 | 0.722 | 4.009 | 6.35 |
| 6.00 | 3.55 | 2.48 | 0.28 | 0.581 | 3.756 | 7.54 | 3.00 | 2.37 | 0.25 | 0.655 | 3.926 | 6.69 |



b=19.00 deg Bc=0.37 m Disp=12.18 kp LCG=0.75 m

| ~CAHI~ | | | | | | | ~SAVITSKY~ | | | | | |
|-------------|------------|---------------|------------|-----------------------|-----------------------|------------|------------|---------------|------------|-----------------------|-----------------------|------------|
| Vs [m/s] | Lamda - | Trim [deg] | D/W [%] | Cr 10 ³ | Ct 10 ³ | R [lbs] | Lamda - | Trim [deg] | D/W [%] | Cr 10 ³ | Ct 10 ³ | R [lbs] |
| 1.00 | 12.16 | 1.32 | 0.05 | 3.194 | 6.708 | 1.30 | 6.04 | 1.08 | 0.03 | 5.262 | 9.287 | 0.89 |
| 1.26 | 11.08 | 1.36 | 0.06 | 2.268 | 5.691 | 1.60 | 5.97 | 1.12 | 0.04 | 3.468 | 7.320 | 1.11 |
| 1.53 | 10.24 | 1.40 | 0.07 | 1.733 | 5.087 | 1.93 | 5.88 | 1.17 | 0.05 | 2.515 | 6.238 | 1.36 |
| 1.79 | 9.55 | 1.45 | 0.09 | 1.396 | 4.696 | 2.28 | 5.77 | 1.22 | 0.06 | 1.951 | 5.576 | 1.64 |
| 2.05 | 8.96 | 1.50 | 0.10 | 1.173 | 4.429 | 2.66 | 5.64 | 1.28 | 0.07 | 1.594 | 5.141 | 1.94 |
| 2.32 | 8.42 | 1.56 | 0.11 | 1.018 | 4.240 | 3.04 | 5.49 | 1.35 | 0.08 | 1.356 | 4.840 | 2.27 |
| 2.58 | 7.93 | 1.62 | 0.13 | 0.909 | 4.103 | 3.44 | 5.33 | 1.43 | 0.10 | 1.193 | 4.627 | 2.61 |
| 2.84 | 7.47 | 1.70 | 0.14 | 0.832 | 4.005 | 3.84 | 5.16 | 1.52 | 0.11 | 1.078 | 4.472 | 2.96 |
| 3.11 | 7.04 | 1.78 | 0.16 | 0.777 | 3.934 | 4.23 | 4.97 | 1.62 | 0.12 | 0.997 | 4.359 | 3.32 |
| 3.37 | 6.62 | 1.87 | 0.17 | 0.738 | 3.884 | 4.62 | 4.77 | 1.72 | 0.14 | 0.938 | 4.275 | 3.67 |
| 3.63 | 6.22 | 1.96 | 0.19 | 0.711 | 3.850 | 5.00 | 4.57 | 1.82 | 0.15 | 0.893 | 4.211 | 4.03 |
| 3.89 | 5.85 | 2.06 | 0.20 | 0.690 | 3.824 | 5.37 | 4.38 | 1.92 | 0.16 | 0.855 | 4.157 | 4.38 |
| 4.16 | 5.51 | 2.14 | 0.21 | 0.671 | 3.803 | 5.72 | 4.19 | 2.00 | 0.18 | 0.820 | 4.108 | 4.72 |
| 4.42 | 5.20 | 2.22 | 0.23 | 0.650 | 3.780 | 6.07 | 4.02 | 2.07 | 0.19 | 0.783 | 4.059 | 5.05 |
| 4.68 | 4.93 | 2.27 | 0.24 | 0.626 | 3.754 | 6.41 | 3.87 | 2.12 | 0.20 | 0.742 | 4.008 | 5.39 |
| 4.95 | 4.69 | 2.30 | 0.25 | 0.597 | 3.722 | 6.75 | 3.74 | 2.15 | 0.21 | 0.699 | 3.952 | 5.72 |
| 5.21 | 4.49 | 2.30 | 0.26 | 0.564 | 3.685 | 7.09 | 3.62 | 2.16 | 0.23 | 0.653 | 3.894 | 6.06 |
| 5.47 | 4.32 | 2.29 | 0.28 | 0.529 | 3.644 | 7.44 | 3.53 | 2.15 | 0.24 | 0.606 | 3.835 | 6.41 |
| 5.74 | 4.18 | 2.27 | 0.29 | 0.493 | 3.601 | 7.81 | 3.44 | 2.13 | 0.25 | 0.559 | 3.775 | 6.77 |
| 6.00 | 4.05 | 2.23 | 0.30 | 0.458 | 3.558 | 8.18 | 3.37 | 2.10 | 0.27 | 0.514 | 3.716 | 7.14 |



Simulation Info:

28/06/2019 06:47:41 pm

Input Data:

Ship Speed: from Vs1=1.00 m/s to Vs2=6.00 m/s (for 20 different Ship Speed values)

Ship Displacement: Disp=16.30 kp

Breadth at Chine: Bc=0.37 m

Deadrise Angle: b=19.00 deg

LCG: from LCG1=0.63 m to LCG2=0.75 m (for 3 different LCG values)

Fresh water properties at 17.50C:

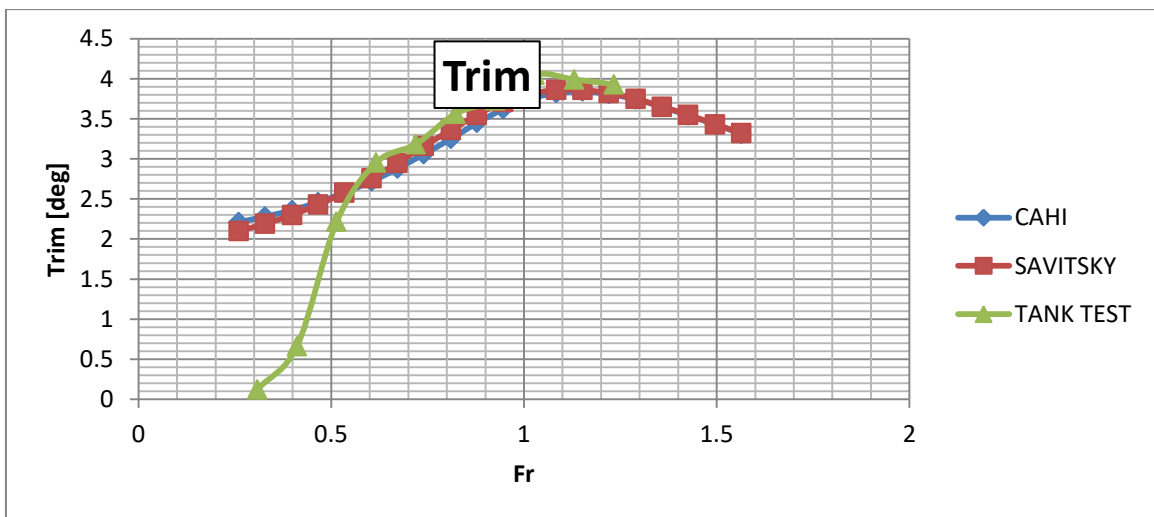
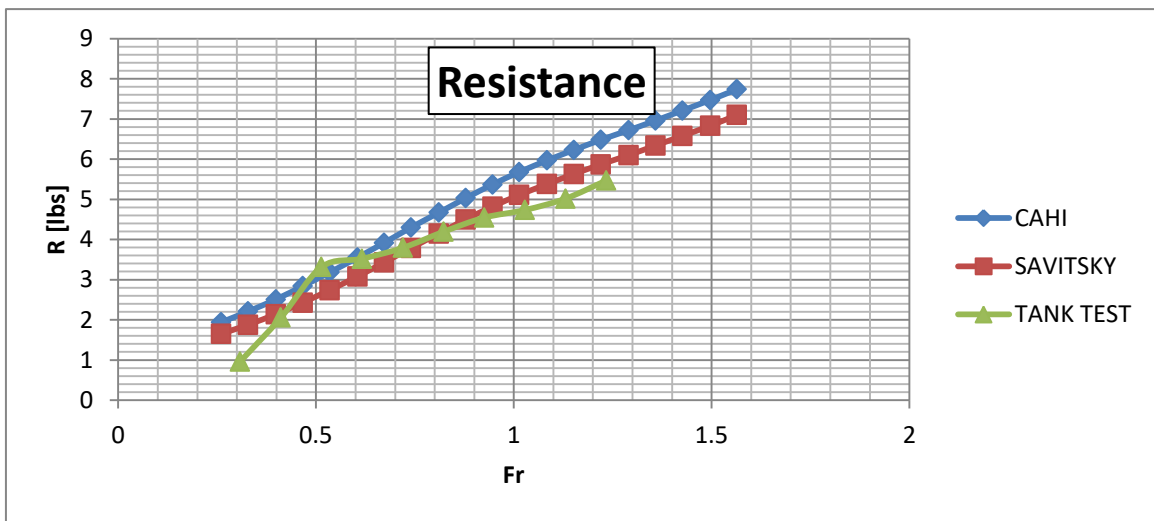
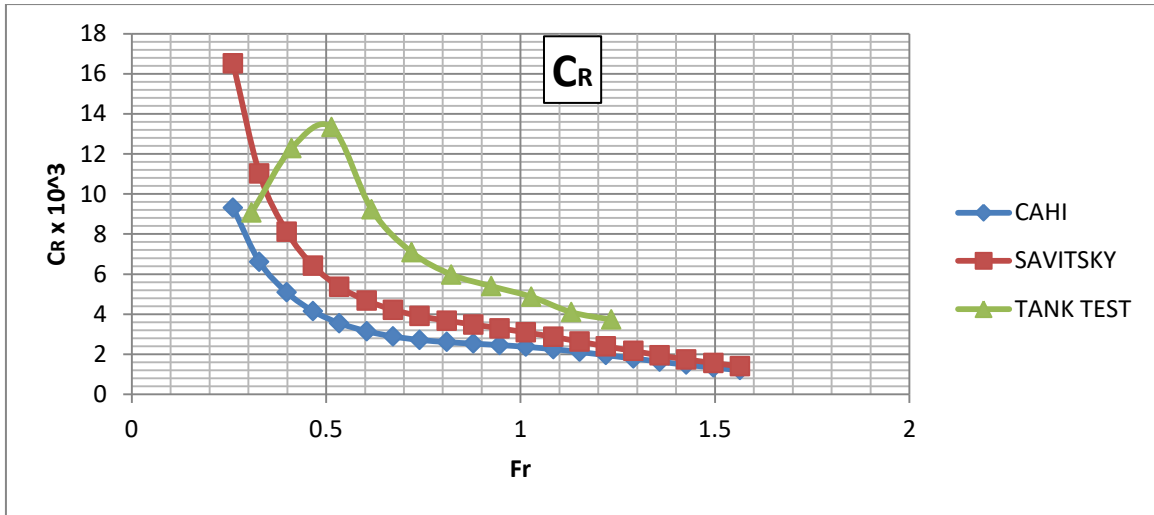
Density=998.60 kg/m³

Viscosity=1.06792*10⁻⁶ m²/s

Results:

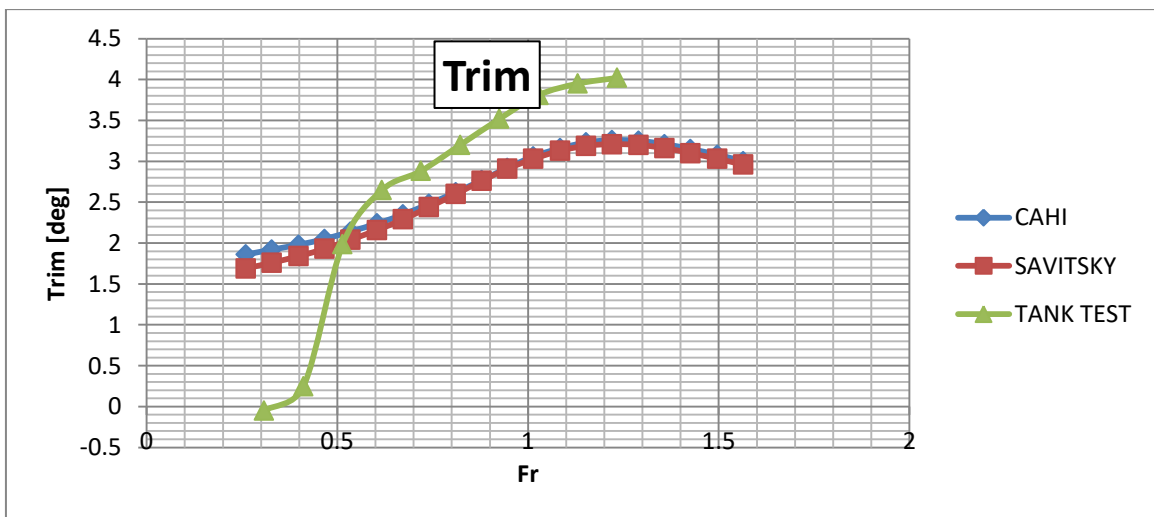
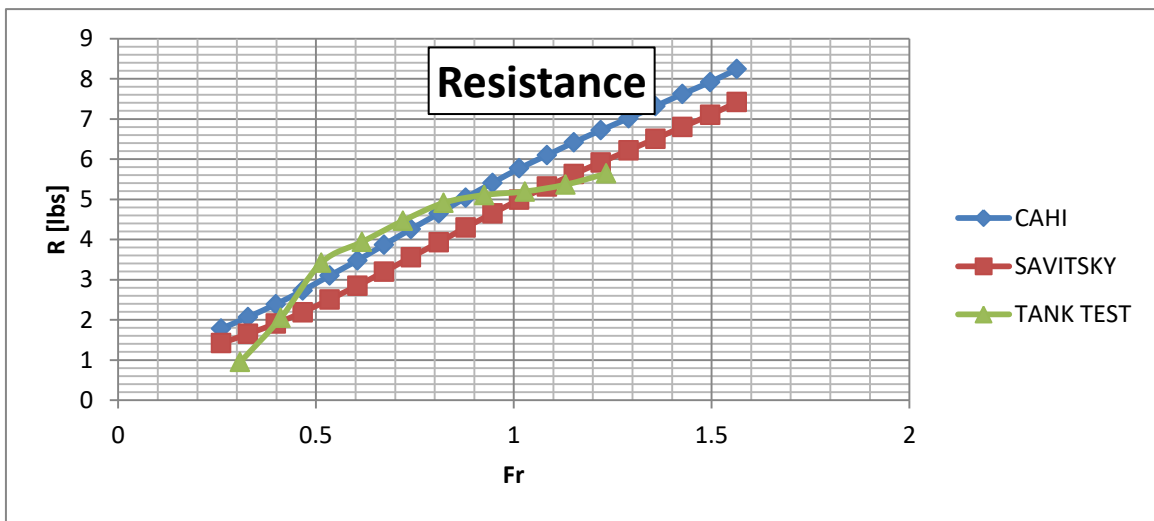
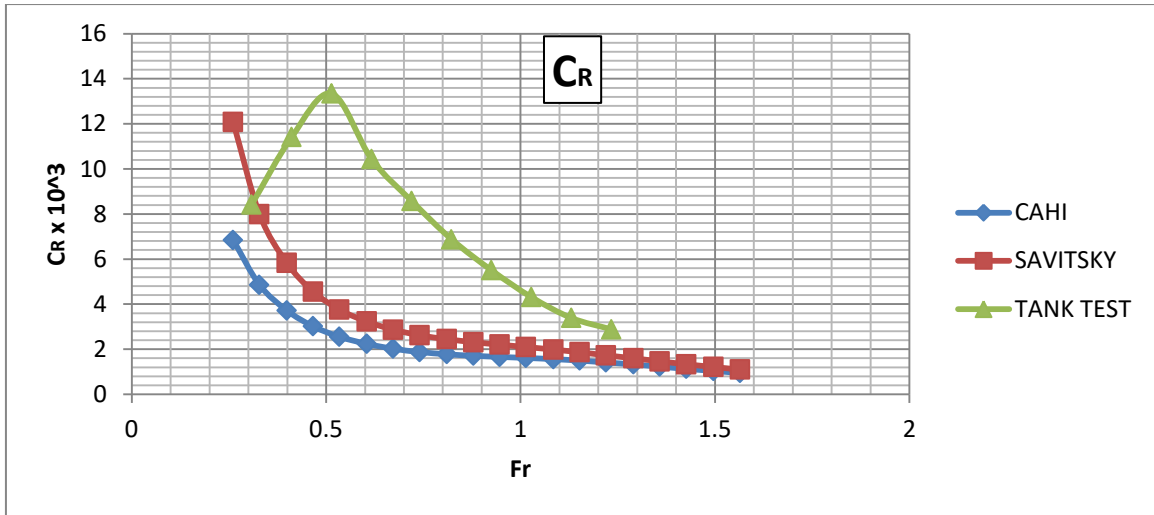
b=19.00 deg Bc=0.37 m Disp=16.30 kp LCG=0.63 m

| ~CAHI~ | | | | | | | ~SAVITSKY~ | | | | | |
|--------|-------|-------|------|-----------------|-----------------|-------|------------|-------|------|-----------------|-----------------|-------|
| Vs | Lamda | Trim | D/W | Cr | Ct | R | Lamda | Trim | D/W | Cr | Ct | R |
| [m/s] | - | [deg] | [%] | 10 ³ | 10 ³ | [lbs] | - | [deg] | [%] | 10 ³ | 10 ³ | [lbs] |
| 1.00 | 9.42 | 2.21 | 0.05 | 9.304 | 12.994 | 1.94 | 5.03 | 2.10 | 0.05 | 16.520 | 20.700 | 1.65 |
| 1.26 | 8.58 | 2.28 | 0.06 | 6.610 | 10.202 | 2.21 | 4.94 | 2.19 | 0.05 | 11.015 | 15.016 | 1.88 |
| 1.53 | 7.92 | 2.36 | 0.07 | 5.087 | 8.606 | 2.51 | 4.83 | 2.30 | 0.06 | 8.111 | 11.982 | 2.14 |
| 1.79 | 7.37 | 2.46 | 0.08 | 4.151 | 7.614 | 2.84 | 4.70 | 2.43 | 0.07 | 6.414 | 10.186 | 2.43 |
| 2.05 | 6.87 | 2.58 | 0.09 | 3.547 | 6.967 | 3.18 | 4.55 | 2.58 | 0.08 | 5.356 | 9.053 | 2.74 |
| 2.32 | 6.42 | 2.72 | 0.10 | 3.148 | 6.536 | 3.55 | 4.38 | 2.76 | 0.09 | 4.671 | 8.311 | 3.08 |
| 2.58 | 5.99 | 2.88 | 0.11 | 2.886 | 6.250 | 3.92 | 4.19 | 2.95 | 0.10 | 4.216 | 7.812 | 3.43 |
| 2.84 | 5.58 | 3.06 | 0.12 | 2.716 | 6.064 | 4.30 | 4.00 | 3.16 | 0.11 | 3.904 | 7.467 | 3.79 |
| 3.11 | 5.19 | 3.25 | 0.13 | 2.607 | 5.946 | 4.67 | 3.80 | 3.36 | 0.12 | 3.675 | 7.213 | 4.15 |
| 3.37 | 4.83 | 3.45 | 0.14 | 2.530 | 5.864 | 5.03 | 3.61 | 3.55 | 0.13 | 3.483 | 7.002 | 4.50 |
| 3.63 | 4.50 | 3.62 | 0.15 | 2.458 | 5.790 | 5.37 | 3.43 | 3.71 | 0.13 | 3.293 | 6.796 | 4.82 |
| 3.89 | 4.22 | 3.75 | 0.16 | 2.370 | 5.699 | 5.68 | 3.27 | 3.81 | 0.14 | 3.088 | 6.576 | 5.11 |
| 4.16 | 3.97 | 3.82 | 0.17 | 2.253 | 5.579 | 5.97 | 3.14 | 3.86 | 0.15 | 2.865 | 6.338 | 5.38 |
| 4.42 | 3.77 | 3.84 | 0.17 | 2.111 | 5.432 | 6.23 | 3.03 | 3.86 | 0.16 | 2.629 | 6.086 | 5.63 |
| 4.68 | 3.60 | 3.81 | 0.18 | 1.953 | 5.267 | 6.48 | 2.93 | 3.82 | 0.16 | 2.392 | 5.832 | 5.87 |
| 4.95 | 3.46 | 3.74 | 0.19 | 1.789 | 5.094 | 6.72 | 2.86 | 3.75 | 0.17 | 2.161 | 5.583 | 6.10 |
| 5.21 | 3.35 | 3.65 | 0.19 | 1.628 | 4.922 | 6.96 | 2.79 | 3.65 | 0.18 | 1.943 | 5.347 | 6.34 |
| 5.47 | 3.25 | 3.54 | 0.20 | 1.475 | 4.757 | 7.21 | 2.74 | 3.55 | 0.18 | 1.743 | 5.128 | 6.58 |
| 5.74 | 3.16 | 3.43 | 0.21 | 1.333 | 4.603 | 7.47 | 2.69 | 3.43 | 0.19 | 1.561 | 4.927 | 6.83 |
| 6.00 | 3.09 | 3.31 | 0.22 | 1.204 | 4.461 | 7.74 | 2.65 | 3.32 | 0.20 | 1.397 | 4.745 | 7.10 |



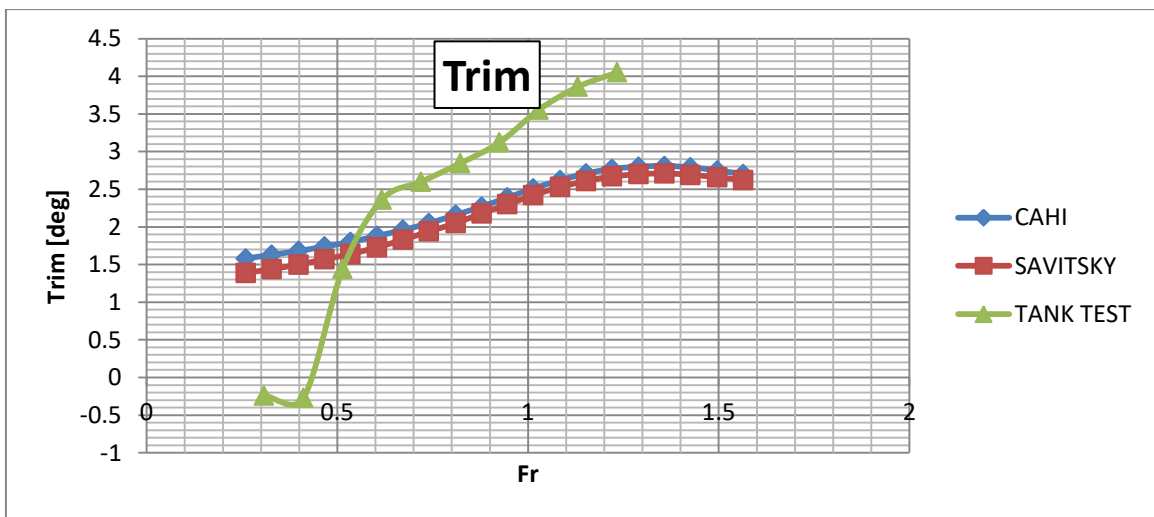
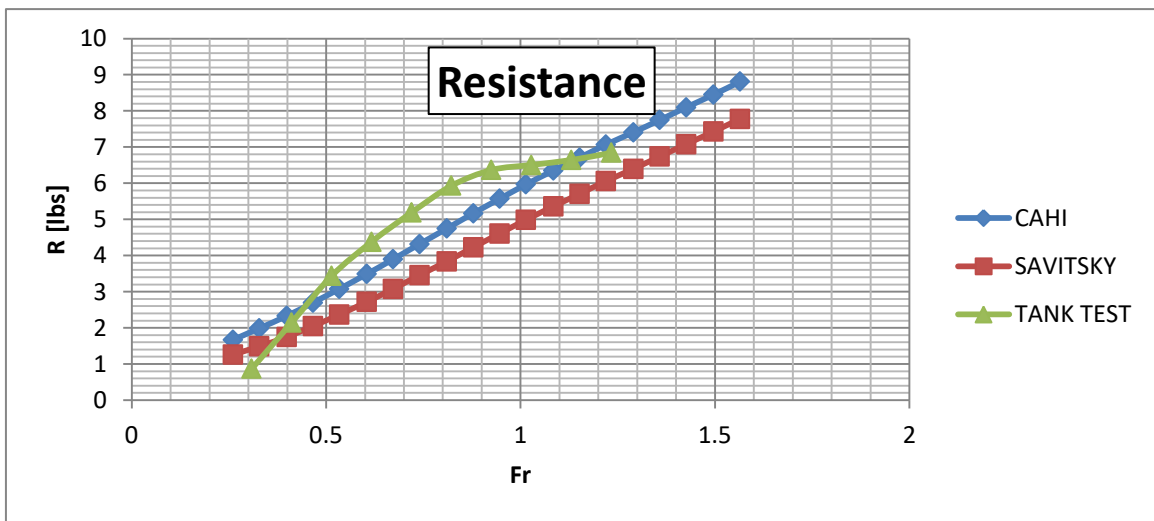
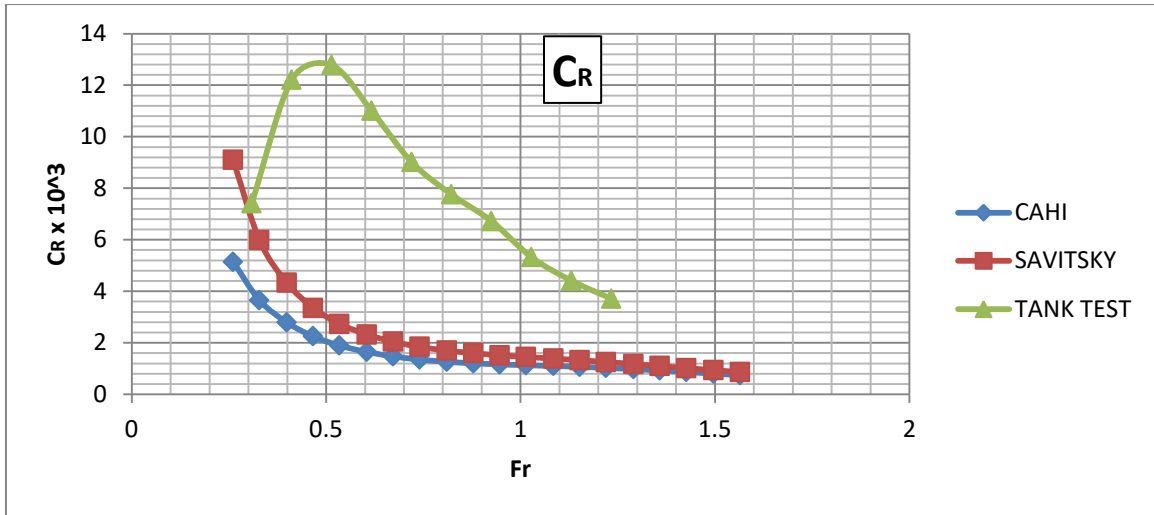
b=19.00 deg Bc=0.37 m Disp=16.30 kp LCG=0.69 m

| ~CAHI~ | | | | | | | ~SAVITSKY~ | | | | | |
|-------------|------------|---------------|------------|-----------------------|-----------------------|------------|------------|---------------|------------|-----------------------|-----------------------|------------|
| Vs [m/s] | Lamda - | Trim [deg] | D/W [%] | Cr 10 ³ | Ct 10 ³ | R [lbs] | Lamda - | Trim [deg] | D/W [%] | Cr 10 ³ | Ct 10 ³ | R [lbs] |
| 1.00 | 10.75 | 1.86 | 0.05 | 6.846 | 10.443 | 1.78 | 5.54 | 1.69 | 0.04 | 12.087 | 16.185 | 1.42 |
| 1.26 | 9.80 | 1.92 | 0.06 | 4.856 | 8.359 | 2.07 | 5.46 | 1.76 | 0.05 | 7.997 | 11.918 | 1.65 |
| 1.53 | 9.05 | 1.98 | 0.07 | 3.721 | 7.153 | 2.39 | 5.36 | 1.84 | 0.05 | 5.831 | 9.623 | 1.91 |
| 1.79 | 8.43 | 2.05 | 0.08 | 3.015 | 6.391 | 2.73 | 5.24 | 1.93 | 0.06 | 4.557 | 8.250 | 2.19 |
| 2.05 | 7.89 | 2.14 | 0.09 | 2.551 | 5.885 | 3.10 | 5.10 | 2.04 | 0.07 | 3.754 | 7.371 | 2.51 |
| 2.32 | 7.40 | 2.24 | 0.10 | 2.238 | 5.537 | 3.48 | 4.94 | 2.16 | 0.08 | 3.226 | 6.782 | 2.85 |
| 2.58 | 6.94 | 2.35 | 0.11 | 2.023 | 5.296 | 3.87 | 4.77 | 2.29 | 0.09 | 2.868 | 6.376 | 3.20 |
| 2.84 | 6.51 | 2.48 | 0.12 | 1.876 | 5.130 | 4.26 | 4.58 | 2.44 | 0.10 | 2.621 | 6.092 | 3.56 |
| 3.11 | 6.10 | 2.62 | 0.13 | 1.777 | 5.018 | 4.65 | 4.38 | 2.60 | 0.11 | 2.446 | 5.889 | 3.93 |
| 3.37 | 5.70 | 2.77 | 0.14 | 1.710 | 4.943 | 5.04 | 4.19 | 2.76 | 0.12 | 2.315 | 5.735 | 4.30 |
| 3.63 | 5.34 | 2.92 | 0.15 | 1.660 | 4.889 | 5.41 | 3.99 | 2.91 | 0.13 | 2.204 | 5.608 | 4.65 |
| 3.89 | 5.00 | 3.06 | 0.16 | 1.615 | 4.841 | 5.77 | 3.81 | 3.03 | 0.14 | 2.098 | 5.487 | 4.99 |
| 4.16 | 4.70 | 3.16 | 0.17 | 1.562 | 4.786 | 6.10 | 3.65 | 3.13 | 0.15 | 1.986 | 5.362 | 5.32 |
| 4.42 | 4.45 | 3.23 | 0.18 | 1.495 | 4.717 | 6.42 | 3.50 | 3.19 | 0.16 | 1.864 | 5.227 | 5.63 |
| 4.68 | 4.23 | 3.26 | 0.19 | 1.415 | 4.632 | 6.72 | 3.38 | 3.21 | 0.16 | 1.733 | 5.083 | 5.92 |
| 4.95 | 4.04 | 3.25 | 0.20 | 1.324 | 4.535 | 7.02 | 3.28 | 3.20 | 0.17 | 1.598 | 4.934 | 6.22 |
| 5.21 | 3.89 | 3.21 | 0.20 | 1.227 | 4.432 | 7.32 | 3.19 | 3.16 | 0.18 | 1.464 | 4.784 | 6.51 |
| 5.47 | 3.76 | 3.15 | 0.21 | 1.130 | 4.326 | 7.62 | 3.11 | 3.10 | 0.19 | 1.334 | 4.639 | 6.80 |
| 5.74 | 3.64 | 3.08 | 0.22 | 1.036 | 4.222 | 7.92 | 3.05 | 3.03 | 0.20 | 1.212 | 4.501 | 7.10 |
| 6.00 | 3.55 | 3.00 | 0.23 | 0.947 | 4.123 | 8.24 | 3.00 | 2.96 | 0.21 | 1.098 | 4.371 | 7.42 |



b=19.00 deg Bc=0.37 m Disp=16.30 kp LCG=0.75 m

| ~CAHI~ | | | | | | | ~SAVITSKY~ | | | | | |
|-------------|------------|---------------|------------|-----------------------|-----------------------|------------|------------|---------------|------------|-----------------------|-----------------------|------------|
| Vs [m/s] | Lamda - | Trim [deg] | D/W [%] | Cr 10 ³ | Ct 10 ³ | R [lbs] | Lamda - | Trim [deg] | D/W [%] | Cr 10 ³ | Ct 10 ³ | R [lbs] |
| 1.00 | 12.16 | 1.58 | 0.05 | 5.146 | 8.661 | 1.67 | 6.04 | 1.39 | 0.04 | 9.100 | 13.125 | 1.26 |
| 1.26 | 11.08 | 1.63 | 0.06 | 3.651 | 7.075 | 1.99 | 5.97 | 1.44 | 0.04 | 5.984 | 9.837 | 1.49 |
| 1.53 | 10.24 | 1.68 | 0.06 | 2.791 | 6.145 | 2.33 | 5.88 | 1.50 | 0.05 | 4.331 | 8.056 | 1.75 |
| 1.79 | 9.55 | 1.74 | 0.07 | 2.251 | 5.551 | 2.70 | 5.77 | 1.57 | 0.06 | 3.355 | 6.980 | 2.05 |
| 2.05 | 8.96 | 1.80 | 0.09 | 1.893 | 5.150 | 3.08 | 5.64 | 1.64 | 0.07 | 2.735 | 6.282 | 2.37 |
| 2.32 | 8.42 | 1.88 | 0.10 | 1.646 | 4.868 | 3.49 | 5.49 | 1.73 | 0.08 | 2.323 | 5.808 | 2.72 |
| 2.58 | 7.93 | 1.96 | 0.11 | 1.473 | 4.668 | 3.90 | 5.33 | 1.83 | 0.09 | 2.040 | 5.474 | 3.08 |
| 2.84 | 7.47 | 2.05 | 0.12 | 1.350 | 4.524 | 4.32 | 5.16 | 1.94 | 0.10 | 1.841 | 5.236 | 3.46 |
| 3.11 | 7.04 | 2.16 | 0.13 | 1.264 | 4.422 | 4.75 | 4.97 | 2.05 | 0.11 | 1.700 | 5.063 | 3.84 |
| 3.37 | 6.62 | 2.27 | 0.14 | 1.204 | 4.351 | 5.17 | 4.77 | 2.18 | 0.12 | 1.596 | 4.934 | 4.23 |
| 3.63 | 6.22 | 2.39 | 0.16 | 1.162 | 4.301 | 5.57 | 4.57 | 2.30 | 0.13 | 1.517 | 4.836 | 4.61 |
| 3.89 | 5.85 | 2.51 | 0.17 | 1.129 | 4.265 | 5.97 | 4.38 | 2.42 | 0.14 | 1.451 | 4.754 | 4.99 |
| 4.16 | 5.51 | 2.62 | 0.18 | 1.100 | 4.233 | 6.35 | 4.19 | 2.53 | 0.15 | 1.389 | 4.678 | 5.36 |
| 4.42 | 5.20 | 2.71 | 0.19 | 1.067 | 4.198 | 6.71 | 4.02 | 2.61 | 0.16 | 1.324 | 4.602 | 5.71 |
| 4.68 | 4.93 | 2.77 | 0.20 | 1.026 | 4.156 | 7.07 | 3.87 | 2.67 | 0.17 | 1.253 | 4.520 | 6.06 |
| 4.95 | 4.69 | 2.80 | 0.21 | 0.978 | 4.104 | 7.41 | 3.74 | 2.70 | 0.18 | 1.178 | 4.433 | 6.40 |
| 5.21 | 4.49 | 2.81 | 0.22 | 0.924 | 4.045 | 7.75 | 3.62 | 2.71 | 0.19 | 1.099 | 4.341 | 6.74 |
| 5.47 | 4.32 | 2.79 | 0.23 | 0.865 | 3.981 | 8.10 | 3.53 | 2.69 | 0.20 | 1.018 | 4.248 | 7.08 |
| 5.74 | 4.18 | 2.75 | 0.24 | 0.804 | 3.913 | 8.45 | 3.44 | 2.66 | 0.21 | 0.938 | 4.155 | 7.43 |
| 6.00 | 4.05 | 2.70 | 0.25 | 0.745 | 3.846 | 8.81 | 3.37 | 2.62 | 0.22 | 0.862 | 4.064 | 7.78 |



Simulation Info:

 28/06/2019 06:47:57 pm

Input Data:

 Ship Speed: from Vs1=1.00 m/s to Vs2=6.00 m/s (for 20 different Ship Speed values)
 Ship Displacement: Disp=23.41 kp
 Breadth at Chine: Bc=0.37 m
 Deadrise Angle: b=19.00 deg
 LCG: from LCG1=0.63 m to LCG2=0.75 m (for 3 different LCG values)

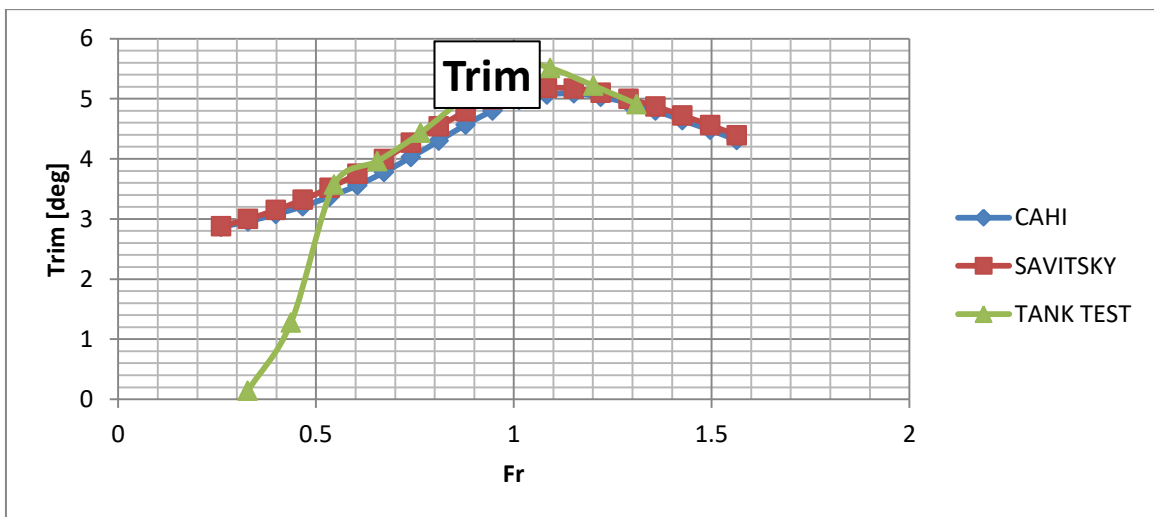
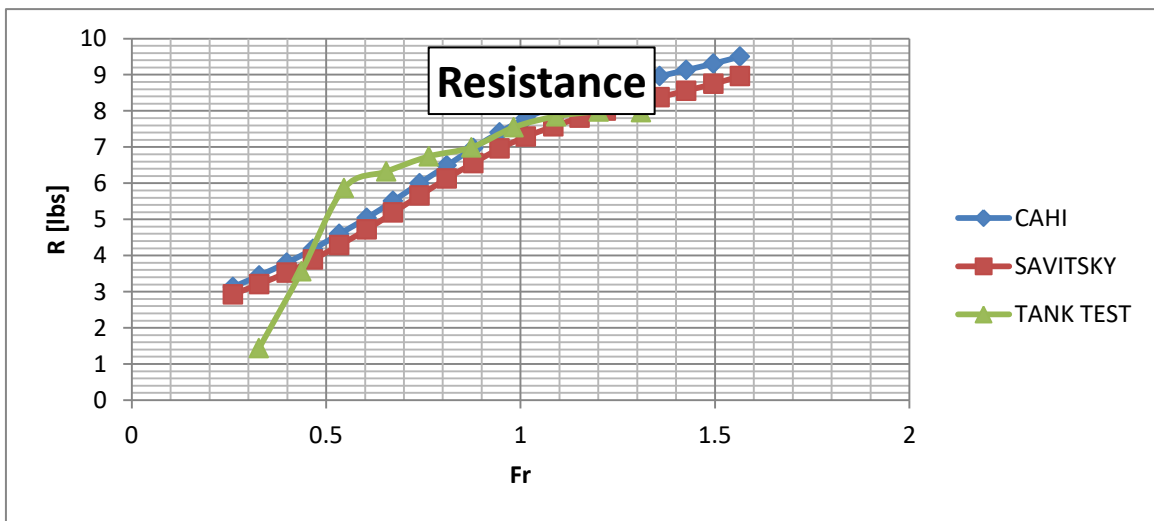
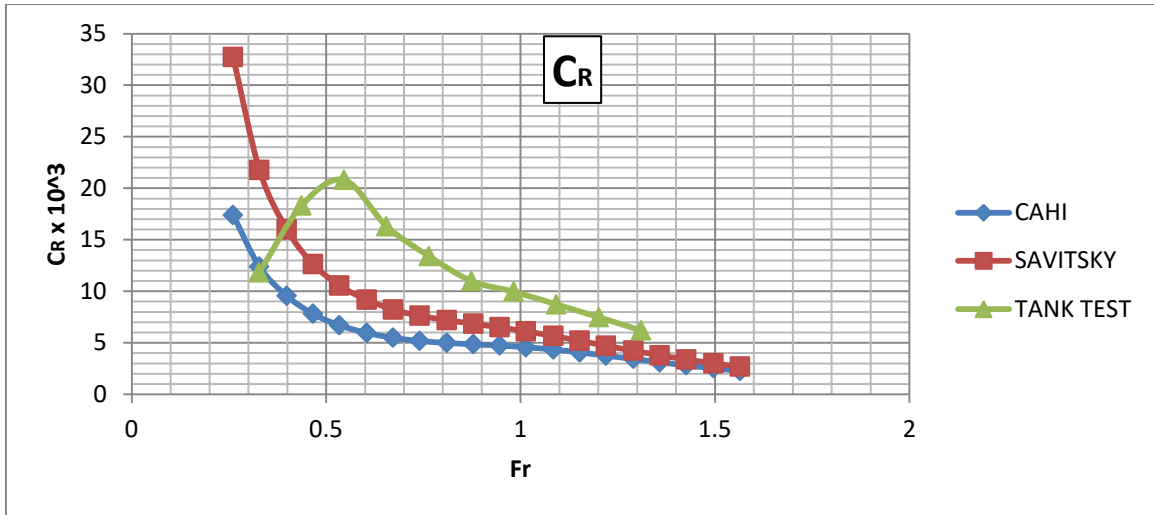
Fresh water properties at 17.50C:

Density=998.60 kg/m³
 Viscosity=1.06792*10⁻⁶ m²/s

Results:

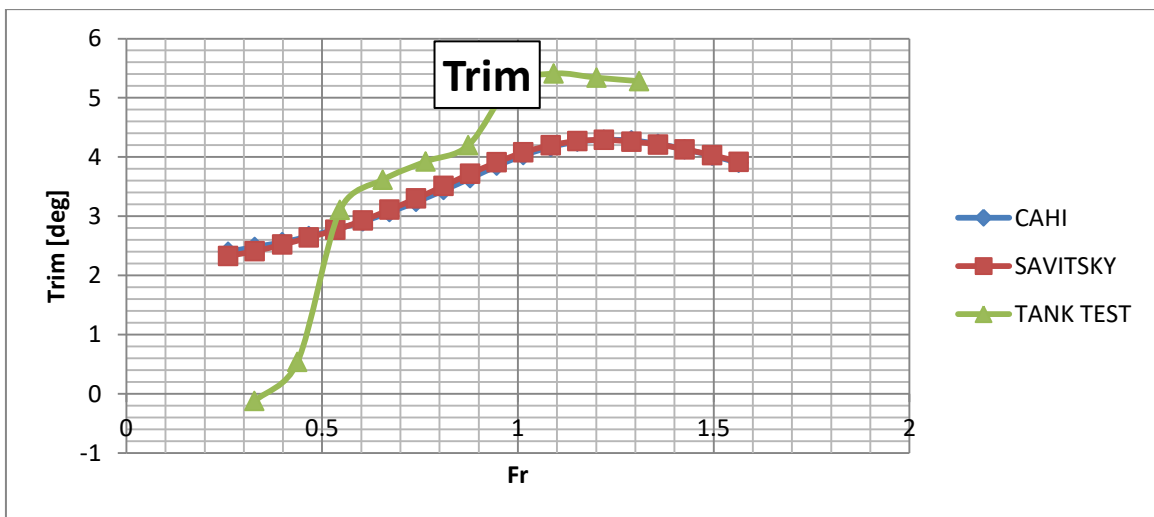
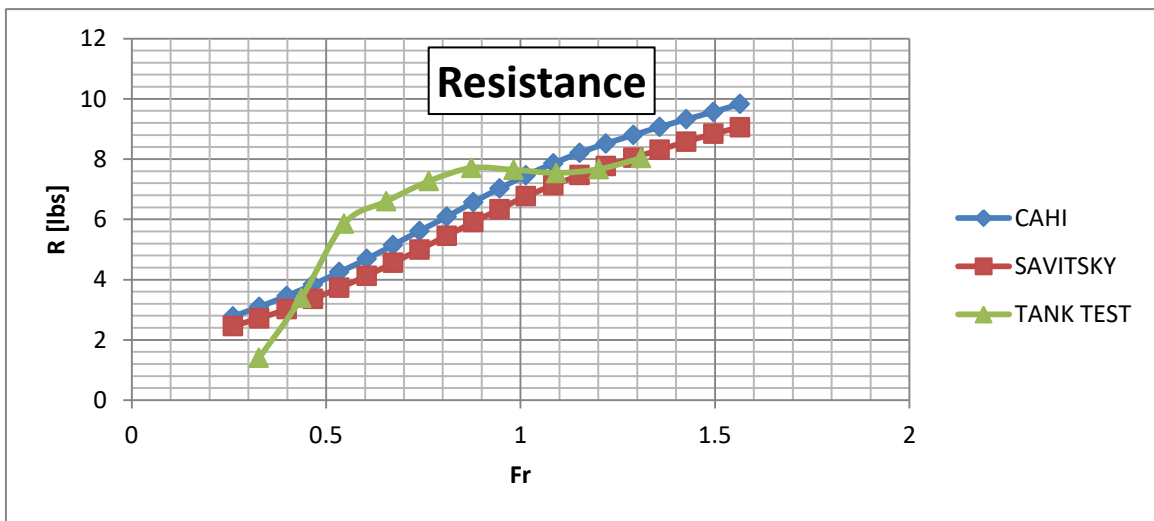
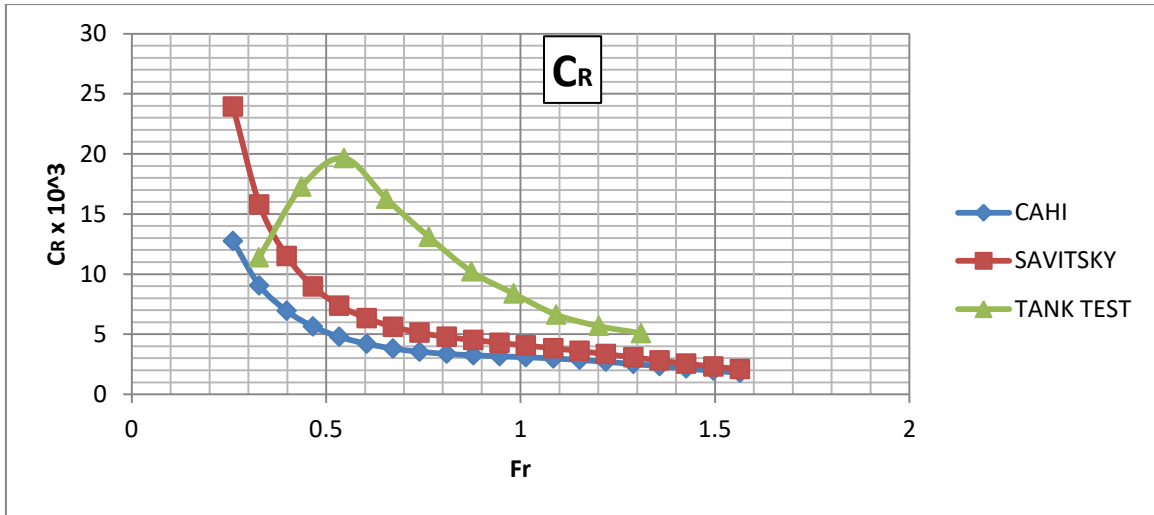
 b=19.00 deg Bc=0.37 m Disp=23.41 kp LCG=0.63 m

| ~CAHI~ | | | | | | | ~SAVITSKY~ | | | | | |
|--------|-------|-------|------|-----------------|-----------------|-------|------------|-------|------|-----------------|-----------------|-------|
| Vs | Lamda | Trim | D/W | Cr | Ct | R | Lamda | Trim | D/W | Cr | Ct | R |
| [m/s] | - | [deg] | [%] | 10 ³ | 10 ³ | [lbs] | - | [deg] | [%] | 10 ³ | 10 ³ | [lbs] |
| 1.00 | 9.42 | 2.87 | 0.06 | 17.398 | 21.090 | 3.13 | 5.03 | 2.88 | 0.06 | 32.732 | 36.914 | 2.93 |
| 1.26 | 8.58 | 2.96 | 0.07 | 12.375 | 15.969 | 3.45 | 4.94 | 3.00 | 0.06 | 21.780 | 25.783 | 3.21 |
| 1.53 | 7.92 | 3.08 | 0.07 | 9.542 | 13.063 | 3.80 | 4.83 | 3.15 | 0.07 | 16.008 | 19.880 | 3.53 |
| 1.79 | 7.37 | 3.21 | 0.08 | 7.806 | 11.271 | 4.18 | 4.70 | 3.32 | 0.08 | 12.636 | 16.410 | 3.89 |
| 2.05 | 6.87 | 3.37 | 0.09 | 6.690 | 10.112 | 4.60 | 4.55 | 3.52 | 0.08 | 10.536 | 14.235 | 4.29 |
| 2.32 | 6.42 | 3.56 | 0.10 | 5.958 | 9.348 | 5.04 | 4.38 | 3.75 | 0.09 | 9.175 | 12.816 | 4.72 |
| 2.58 | 5.99 | 3.78 | 0.11 | 5.481 | 8.847 | 5.51 | 4.22 | 4.00 | 0.10 | 8.210 | 11.803 | 5.19 |
| 2.84 | 5.58 | 4.03 | 0.12 | 5.177 | 8.528 | 6.00 | 4.01 | 4.27 | 0.11 | 7.625 | 11.188 | 5.66 |
| 3.11 | 5.19 | 4.30 | 0.13 | 4.987 | 8.329 | 6.49 | 3.79 | 4.54 | 0.12 | 7.203 | 10.745 | 6.13 |
| 3.37 | 4.83 | 4.57 | 0.14 | 4.856 | 8.193 | 6.97 | 3.58 | 4.79 | 0.13 | 6.851 | 10.377 | 6.56 |
| 3.63 | 4.50 | 4.80 | 0.14 | 4.730 | 8.064 | 7.41 | 3.39 | 4.99 | 0.13 | 6.498 | 10.011 | 6.96 |
| 3.89 | 4.22 | 4.98 | 0.15 | 4.565 | 7.898 | 7.80 | 3.23 | 5.12 | 0.14 | 6.105 | 9.605 | 7.29 |
| 4.16 | 3.97 | 5.07 | 0.16 | 4.341 | 7.671 | 8.12 | 3.09 | 5.18 | 0.15 | 5.665 | 9.151 | 7.57 |
| 4.42 | 3.77 | 5.09 | 0.16 | 4.064 | 7.389 | 8.38 | 2.98 | 5.17 | 0.15 | 5.192 | 8.662 | 7.81 |
| 4.68 | 3.60 | 5.03 | 0.17 | 3.752 | 7.070 | 8.59 | 2.89 | 5.10 | 0.16 | 4.709 | 8.162 | 8.01 |
| 4.95 | 3.46 | 4.93 | 0.17 | 3.428 | 6.736 | 8.78 | 2.82 | 5.00 | 0.16 | 4.236 | 7.670 | 8.20 |
| 5.21 | 3.35 | 4.80 | 0.17 | 3.109 | 6.406 | 8.96 | 2.76 | 4.87 | 0.16 | 3.791 | 7.204 | 8.38 |
| 5.47 | 3.25 | 4.64 | 0.18 | 2.806 | 6.091 | 9.13 | 2.72 | 4.72 | 0.17 | 3.380 | 6.772 | 8.56 |
| 5.74 | 3.16 | 4.48 | 0.18 | 2.526 | 5.799 | 9.31 | 2.68 | 4.56 | 0.17 | 3.009 | 6.379 | 8.75 |
| 6.00 | 3.09 | 4.31 | 0.18 | 2.271 | 5.531 | 9.50 | 2.65 | 4.39 | 0.17 | 2.677 | 6.026 | 8.96 |



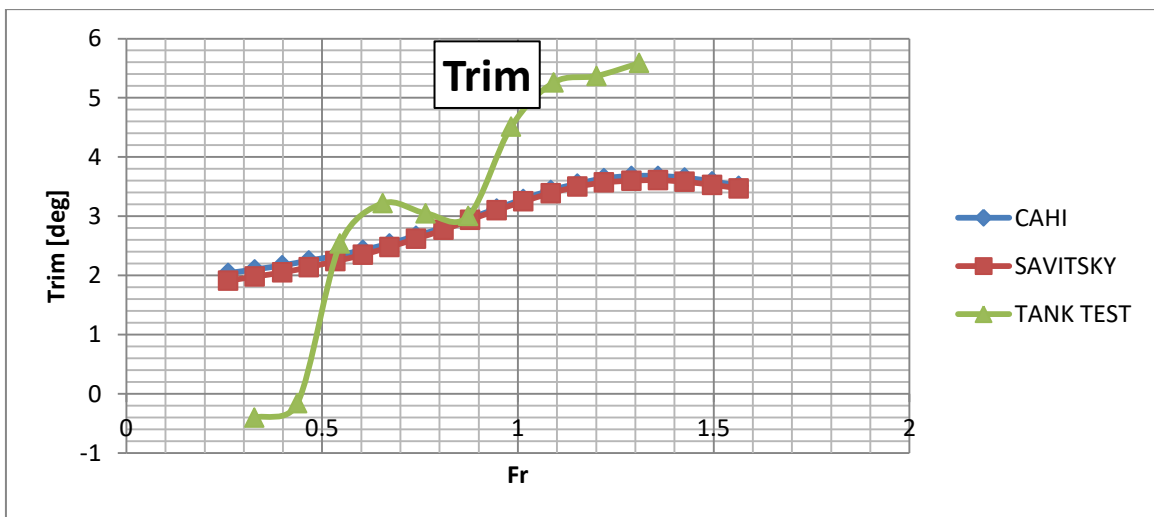
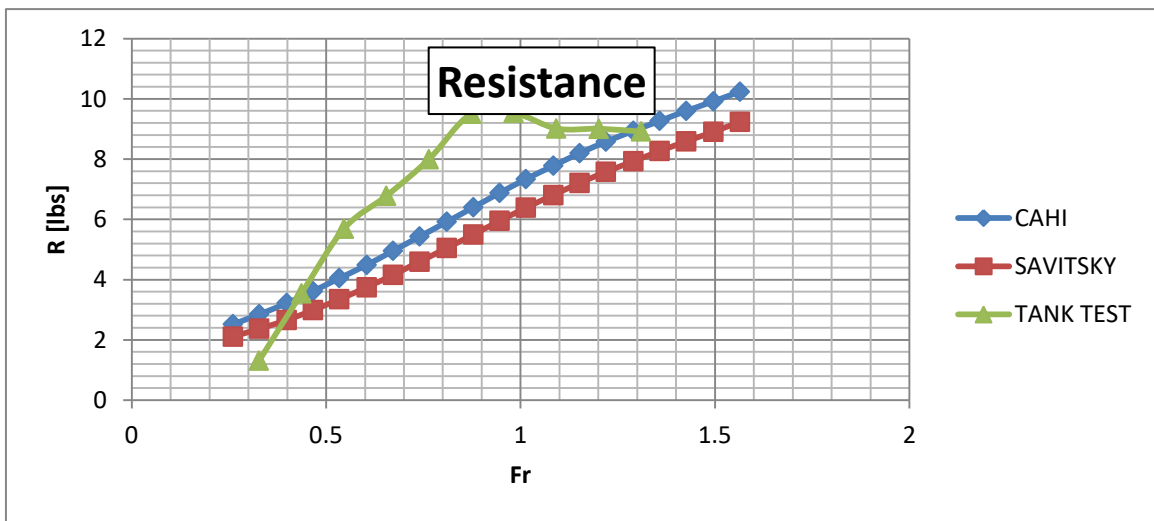
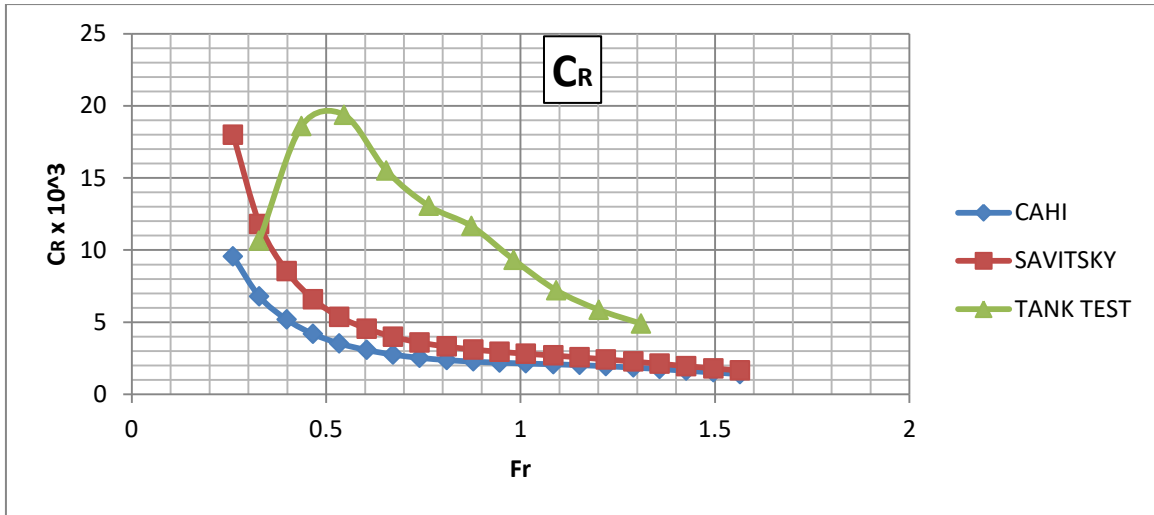
b=19.00 deg Bc=0.37 m Disp=23.41 kp LCG=0.69 m

| ~CAHI~ | | | | | | | ~SAVITSKY~ | | | | | |
|-------------|------------|---------------|------------|-----------------------|-----------------------|------------|------------|---------------|------------|-----------------------|-----------------------|------------|
| Vs [m/s] | Lamda - | Trim [deg] | D/W [%] | Cr 10 ³ | Ct 10 ³ | R [lbs] | Lamda - | Trim [deg] | D/W [%] | Cr 10 ³ | Ct 10 ³ | R [lbs] |
| 1.00 | 10.75 | 2.40 | 0.05 | 12.743 | 16.341 | 2.78 | 5.54 | 2.33 | 0.05 | 23.920 | 28.020 | 2.46 |
| 1.26 | 9.80 | 2.48 | 0.06 | 9.042 | 12.546 | 3.10 | 5.46 | 2.41 | 0.05 | 15.792 | 19.715 | 2.72 |
| 1.53 | 9.05 | 2.56 | 0.07 | 6.936 | 10.369 | 3.46 | 5.36 | 2.52 | 0.06 | 11.492 | 15.286 | 3.02 |
| 1.79 | 8.43 | 2.66 | 0.07 | 5.630 | 9.008 | 3.84 | 5.24 | 2.64 | 0.07 | 8.964 | 12.659 | 3.36 |
| 2.05 | 7.89 | 2.78 | 0.08 | 4.776 | 8.110 | 4.25 | 5.10 | 2.77 | 0.07 | 7.372 | 10.989 | 3.73 |
| 2.32 | 7.40 | 2.91 | 0.09 | 4.199 | 7.500 | 4.69 | 4.94 | 2.93 | 0.08 | 6.323 | 9.881 | 4.13 |
| 2.58 | 6.94 | 3.07 | 0.10 | 3.807 | 7.081 | 5.15 | 4.77 | 3.11 | 0.09 | 5.613 | 9.123 | 4.56 |
| 2.84 | 6.51 | 3.24 | 0.11 | 3.541 | 6.797 | 5.62 | 4.58 | 3.30 | 0.10 | 5.122 | 8.595 | 5.00 |
| 3.11 | 6.10 | 3.44 | 0.12 | 3.364 | 6.607 | 6.09 | 4.38 | 3.51 | 0.11 | 4.773 | 8.218 | 5.46 |
| 3.37 | 5.70 | 3.64 | 0.13 | 3.247 | 6.482 | 6.57 | 4.19 | 3.72 | 0.11 | 4.510 | 7.933 | 5.91 |
| 3.63 | 5.34 | 3.85 | 0.14 | 3.162 | 6.392 | 7.03 | 3.99 | 3.91 | 0.12 | 4.290 | 7.695 | 6.34 |
| 3.89 | 5.00 | 4.03 | 0.14 | 3.081 | 6.309 | 7.46 | 3.84 | 4.08 | 0.13 | 4.051 | 7.438 | 6.77 |
| 4.16 | 4.70 | 4.17 | 0.15 | 2.984 | 6.210 | 7.86 | 3.66 | 4.20 | 0.14 | 3.836 | 7.211 | 7.13 |
| 4.42 | 4.45 | 4.26 | 0.16 | 2.857 | 6.081 | 8.21 | 3.52 | 4.27 | 0.14 | 3.598 | 6.961 | 7.47 |
| 4.68 | 4.23 | 4.29 | 0.17 | 2.701 | 5.920 | 8.52 | 3.39 | 4.29 | 0.15 | 3.341 | 6.691 | 7.77 |
| 4.95 | 4.04 | 4.28 | 0.17 | 2.523 | 5.737 | 8.80 | 3.29 | 4.26 | 0.16 | 3.074 | 6.409 | 8.05 |
| 5.21 | 3.89 | 4.22 | 0.18 | 2.333 | 5.540 | 9.07 | 3.20 | 4.21 | 0.16 | 2.807 | 6.126 | 8.31 |
| 5.47 | 3.76 | 4.13 | 0.18 | 2.142 | 5.341 | 9.32 | 3.14 | 4.13 | 0.17 | 2.548 | 5.851 | 8.58 |
| 5.74 | 3.64 | 4.02 | 0.19 | 1.957 | 5.146 | 9.57 | 3.08 | 4.03 | 0.17 | 2.304 | 5.589 | 8.84 |
| 6.00 | 3.55 | 3.90 | 0.19 | 1.782 | 4.961 | 9.83 | 3.00 | 3.92 | 0.18 | 2.103 | 5.378 | 9.06 |



b=19.00 deg Bc=0.37 m Disp=23.41 kp LCG=0.75 m

| ~CAHI~ | | | | | | | ~SAVITSKY~ | | | | | |
|-------------|------------|---------------|------------|-----------------------|-----------------------|------------|------------|---------------|------------|-----------------------|-----------------------|------------|
| Vs [m/s] | Lamda - | Trim [deg] | D/W [%] | Cr 10 ³ | Ct 10 ³ | R [lbs] | Lamda - | Trim [deg] | D/W [%] | Cr 10 ³ | Ct 10 ³ | R [lbs] |
| 1.00 | 12.16 | 2.04 | 0.05 | 9.550 | 13.065 | 2.52 | 6.04 | 1.91 | 0.04 | 17.993 | 22.020 | 2.11 |
| 1.26 | 11.08 | 2.10 | 0.06 | 6.771 | 10.196 | 2.85 | 5.97 | 1.98 | 0.05 | 11.808 | 15.661 | 2.37 |
| 1.53 | 10.24 | 2.17 | 0.06 | 5.178 | 8.533 | 3.22 | 5.88 | 2.05 | 0.05 | 8.529 | 12.254 | 2.66 |
| 1.79 | 9.55 | 2.25 | 0.07 | 4.181 | 7.482 | 3.62 | 5.77 | 2.14 | 0.06 | 6.593 | 10.219 | 2.99 |
| 2.05 | 8.96 | 2.33 | 0.08 | 3.521 | 6.779 | 4.05 | 5.64 | 2.24 | 0.06 | 5.365 | 8.913 | 3.35 |
| 2.32 | 8.42 | 2.43 | 0.09 | 3.068 | 6.291 | 4.49 | 5.49 | 2.35 | 0.07 | 4.548 | 8.033 | 3.75 |
| 2.58 | 7.93 | 2.54 | 0.10 | 2.752 | 5.947 | 4.96 | 5.33 | 2.48 | 0.08 | 3.986 | 7.422 | 4.16 |
| 2.84 | 7.47 | 2.67 | 0.11 | 2.529 | 5.704 | 5.43 | 5.16 | 2.62 | 0.09 | 3.592 | 6.988 | 4.60 |
| 3.11 | 7.04 | 2.81 | 0.11 | 2.374 | 5.533 | 5.92 | 4.97 | 2.77 | 0.10 | 3.311 | 6.675 | 5.05 |
| 3.37 | 6.62 | 2.97 | 0.12 | 2.267 | 5.415 | 6.40 | 4.77 | 2.94 | 0.11 | 3.105 | 6.444 | 5.50 |
| 3.63 | 6.22 | 3.13 | 0.13 | 2.192 | 5.333 | 6.88 | 4.57 | 3.10 | 0.12 | 2.947 | 6.267 | 5.95 |
| 3.89 | 5.85 | 3.29 | 0.14 | 2.136 | 5.273 | 7.34 | 4.38 | 3.25 | 0.12 | 2.814 | 6.118 | 6.39 |
| 4.16 | 5.51 | 3.44 | 0.15 | 2.083 | 5.218 | 7.78 | 4.19 | 3.39 | 0.13 | 2.688 | 5.980 | 6.81 |
| 4.42 | 5.20 | 3.55 | 0.16 | 2.023 | 5.156 | 8.20 | 4.02 | 3.50 | 0.14 | 2.559 | 5.838 | 7.21 |
| 4.68 | 4.93 | 3.64 | 0.17 | 1.947 | 5.078 | 8.58 | 3.87 | 3.57 | 0.15 | 2.419 | 5.687 | 7.58 |
| 4.95 | 4.69 | 3.68 | 0.17 | 1.854 | 4.982 | 8.94 | 3.74 | 3.60 | 0.15 | 2.269 | 5.526 | 7.93 |
| 5.21 | 4.49 | 3.68 | 0.18 | 1.748 | 4.872 | 9.27 | 3.62 | 3.61 | 0.16 | 2.113 | 5.357 | 8.27 |
| 5.47 | 4.32 | 3.65 | 0.19 | 1.634 | 4.751 | 9.60 | 3.53 | 3.58 | 0.17 | 1.954 | 5.186 | 8.59 |
| 5.74 | 4.18 | 3.59 | 0.19 | 1.516 | 4.626 | 9.92 | 3.44 | 3.53 | 0.17 | 1.798 | 5.017 | 8.91 |
| 6.00 | 4.05 | 3.51 | 0.20 | 1.399 | 4.502 | 10.24 | 3.37 | 3.47 | 0.18 | 1.648 | 4.853 | 9.24 |



Simulation Info:

 28/06/2019 06:48:09 pm

Input Data:

 Ship Speed: from Vs1=1.00 m/s to Vs2=6.00 m/s (for 20 different Ship Speed values)
 Ship Displacement: Disp=10.46 kp
 Breadth at Chine: Bc=0.27 m
 Deadrise Angle: b=19.00 deg
 LCG: from LCG1=0.63 m to LCG2=0.75 m (for 3 different LCG values)

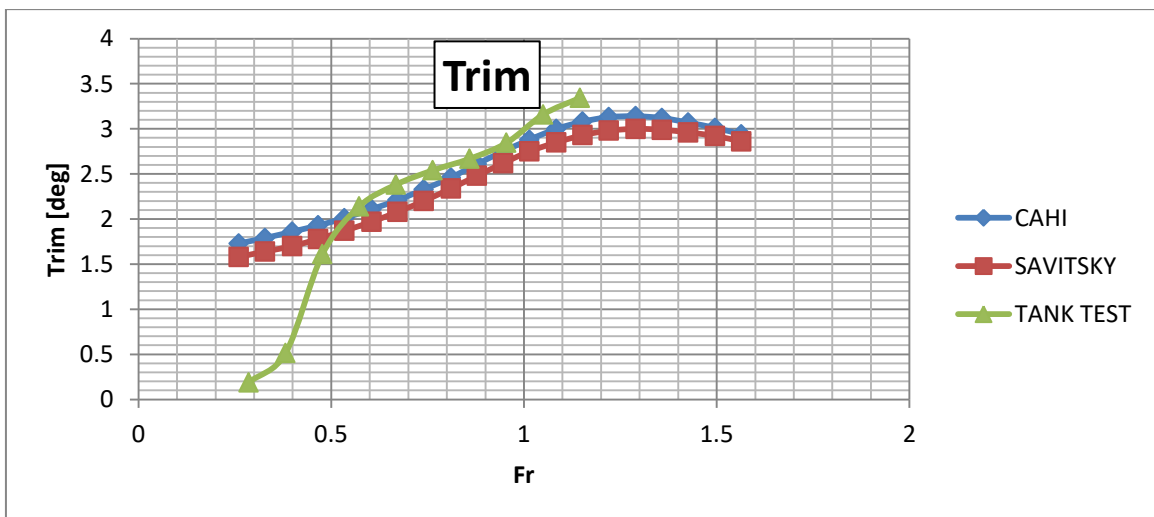
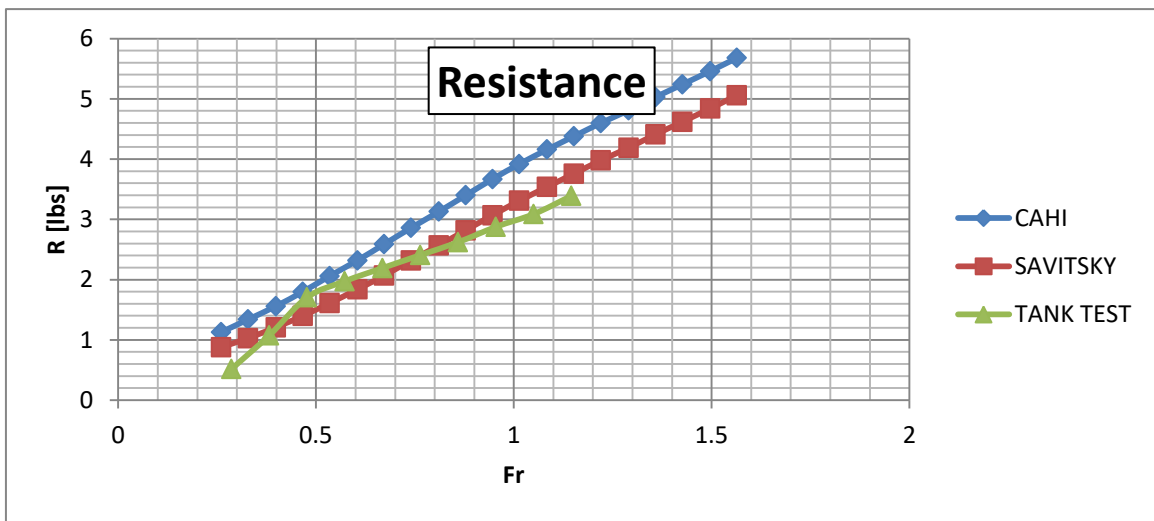
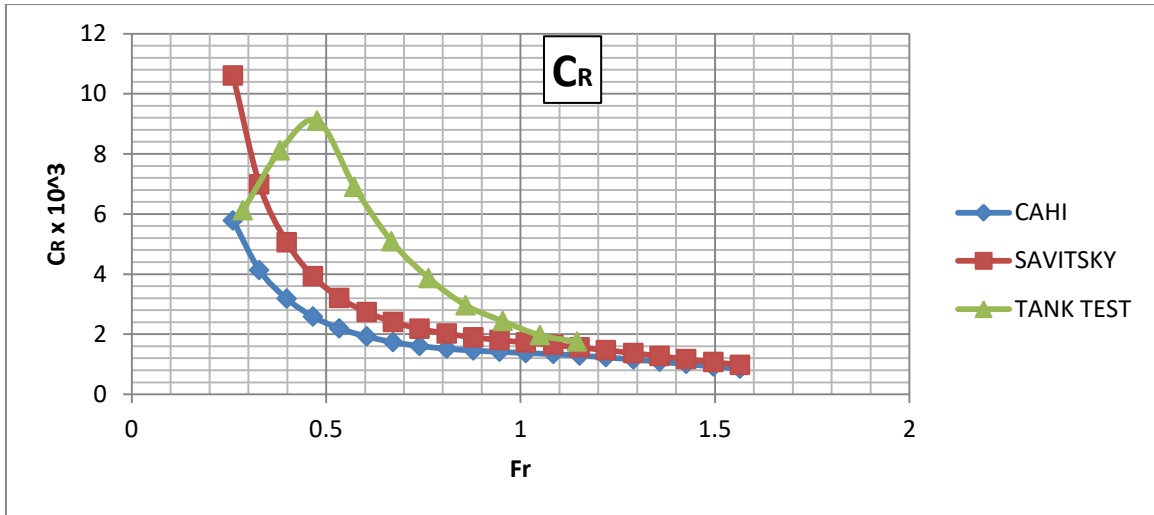
Fresh water properties at 18.00C:

Density=998.50 kg/m³
 Viscosity=1.05456*10⁻⁶ m²/s

Results:

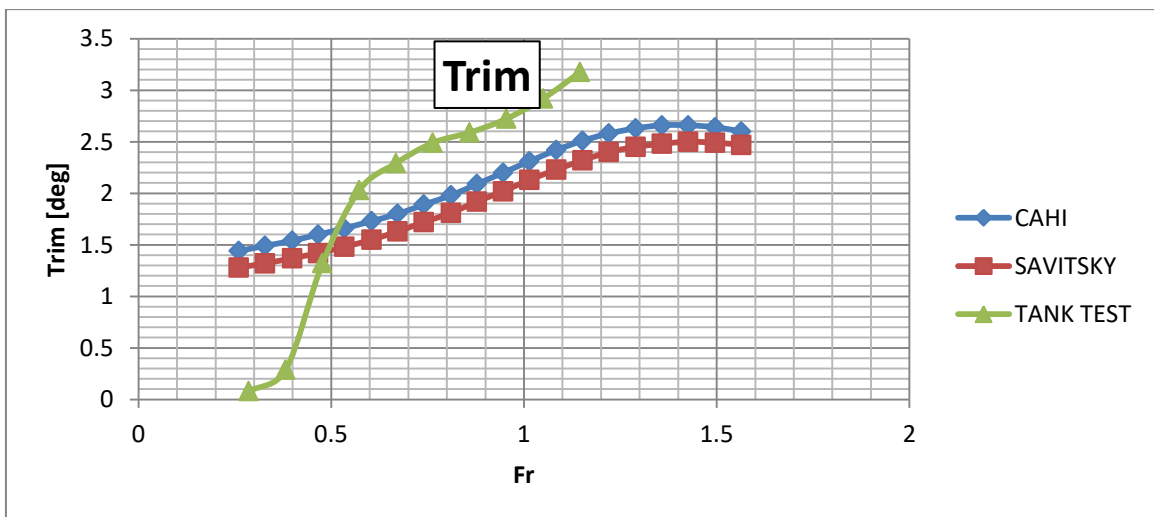
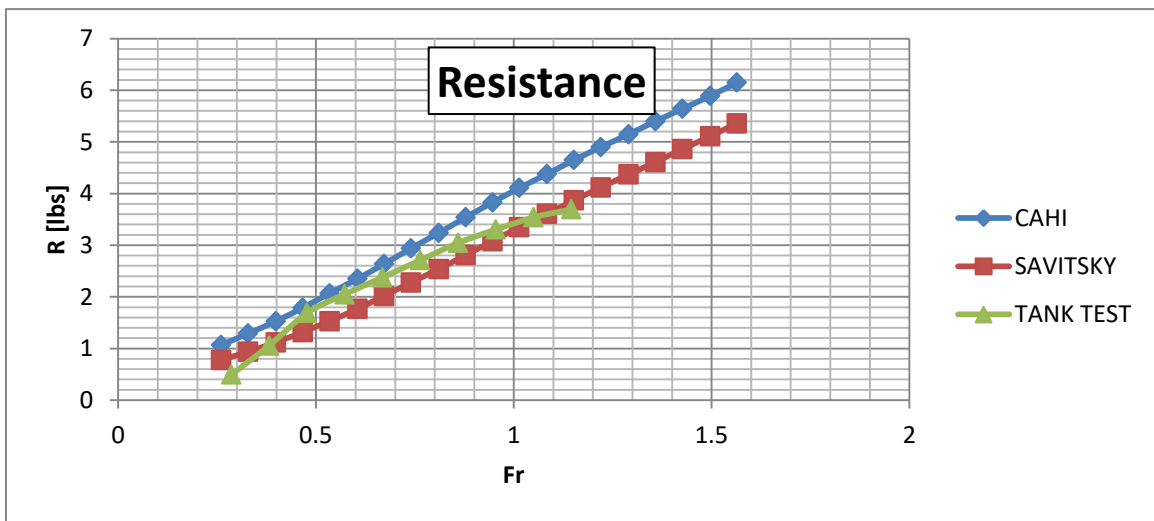
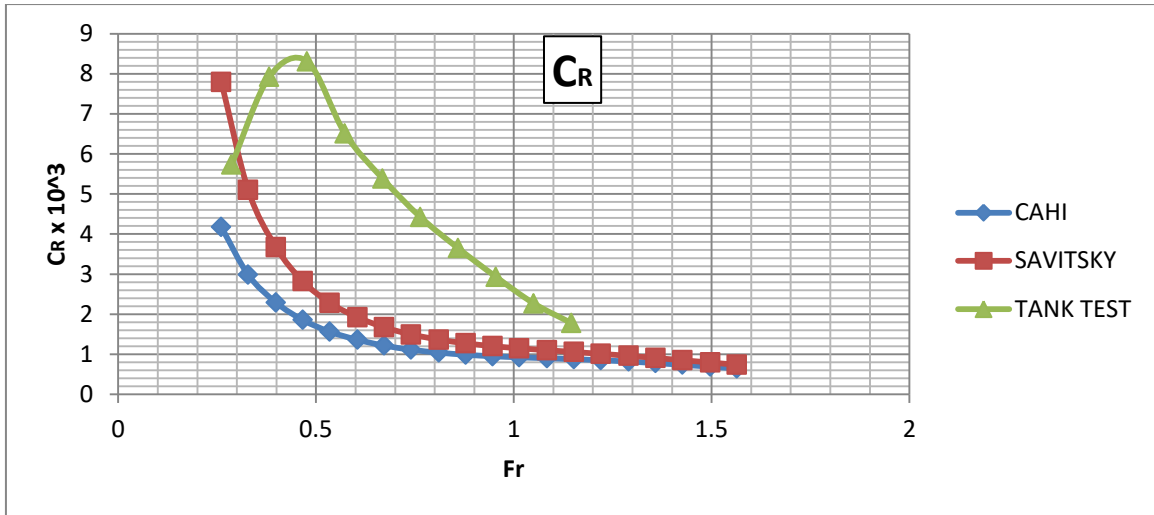
b=19.00 deg Bc=0.27 m Disp=10.46 kp LCG=0.63 m

| ~CAHI~ | | | | | | | ~SAVITSKY~ | | | | | |
|--------|-------|-------|------|-----------------|-----------------|-------|------------|-------|------|-----------------|-----------------|-------|
| Vs | Lamda | Trim | D/W | Cr | Ct | R | Lamda | Trim | D/W | Cr | Ct | R |
| [m/s] | - | [deg] | [%] | 10 ³ | 10 ³ | [lbs] | - | [deg] | [%] | 10 ³ | 10 ³ | [lbs] |
| 1.00 | 13.74 | 1.73 | 0.05 | 5.784 | 9.407 | 1.13 | 6.82 | 1.58 | 0.04 | 10.606 | 14.768 | 0.88 |
| 1.26 | 12.49 | 1.79 | 0.06 | 4.129 | 7.659 | 1.34 | 6.73 | 1.64 | 0.04 | 6.981 | 10.961 | 1.03 |
| 1.53 | 11.53 | 1.86 | 0.07 | 3.178 | 6.637 | 1.56 | 6.62 | 1.70 | 0.05 | 5.059 | 8.905 | 1.21 |
| 1.79 | 10.72 | 1.93 | 0.08 | 2.583 | 5.986 | 1.80 | 6.49 | 1.78 | 0.06 | 3.925 | 7.668 | 1.40 |
| 2.05 | 10.03 | 2.01 | 0.09 | 2.190 | 5.549 | 2.06 | 6.34 | 1.87 | 0.07 | 3.207 | 6.869 | 1.61 |
| 2.32 | 9.41 | 2.11 | 0.10 | 1.921 | 5.246 | 2.32 | 6.16 | 1.97 | 0.08 | 2.731 | 6.329 | 1.84 |
| 2.58 | 8.83 | 2.21 | 0.11 | 1.735 | 5.033 | 2.59 | 5.97 | 2.08 | 0.09 | 2.405 | 5.951 | 2.07 |
| 2.84 | 8.29 | 2.33 | 0.12 | 1.606 | 4.884 | 2.86 | 5.76 | 2.20 | 0.10 | 2.178 | 5.683 | 2.32 |
| 3.11 | 7.78 | 2.46 | 0.14 | 1.517 | 4.781 | 3.13 | 5.54 | 2.34 | 0.11 | 2.016 | 5.489 | 2.57 |
| 3.37 | 7.30 | 2.61 | 0.15 | 1.456 | 4.710 | 3.40 | 5.31 | 2.48 | 0.12 | 1.897 | 5.346 | 2.82 |
| 3.63 | 6.84 | 2.75 | 0.16 | 1.412 | 4.660 | 3.67 | 5.08 | 2.62 | 0.13 | 1.804 | 5.233 | 3.07 |
| 3.89 | 6.42 | 2.88 | 0.17 | 1.375 | 4.620 | 3.92 | 4.86 | 2.75 | 0.14 | 1.723 | 5.137 | 3.31 |
| 4.16 | 6.04 | 3.00 | 0.18 | 1.336 | 4.579 | 4.16 | 4.65 | 2.85 | 0.15 | 1.643 | 5.043 | 3.54 |
| 4.42 | 5.70 | 3.08 | 0.19 | 1.288 | 4.528 | 4.38 | 4.46 | 2.93 | 0.16 | 1.559 | 4.946 | 3.76 |
| 4.68 | 5.41 | 3.13 | 0.20 | 1.228 | 4.466 | 4.60 | 4.30 | 2.98 | 0.17 | 1.467 | 4.842 | 3.98 |
| 4.95 | 5.16 | 3.14 | 0.21 | 1.159 | 4.392 | 4.81 | 4.16 | 3.00 | 0.18 | 1.370 | 4.732 | 4.19 |
| 5.21 | 4.95 | 3.12 | 0.22 | 1.083 | 4.310 | 5.03 | 4.03 | 2.99 | 0.19 | 1.269 | 4.618 | 4.41 |
| 5.47 | 4.77 | 3.07 | 0.23 | 1.004 | 4.224 | 5.24 | 3.93 | 2.96 | 0.20 | 1.169 | 4.504 | 4.62 |
| 5.74 | 4.62 | 3.01 | 0.24 | 0.925 | 4.137 | 5.46 | 3.84 | 2.92 | 0.21 | 1.071 | 4.392 | 4.84 |
| 6.00 | 4.49 | 2.94 | 0.25 | 0.849 | 4.052 | 5.68 | 3.76 | 2.86 | 0.22 | 0.979 | 4.284 | 5.06 |



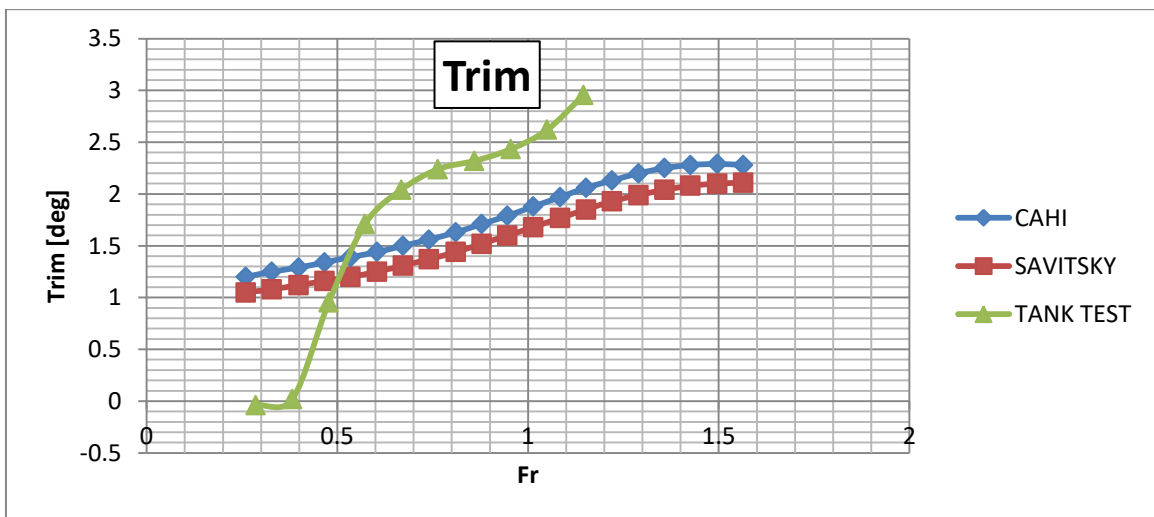
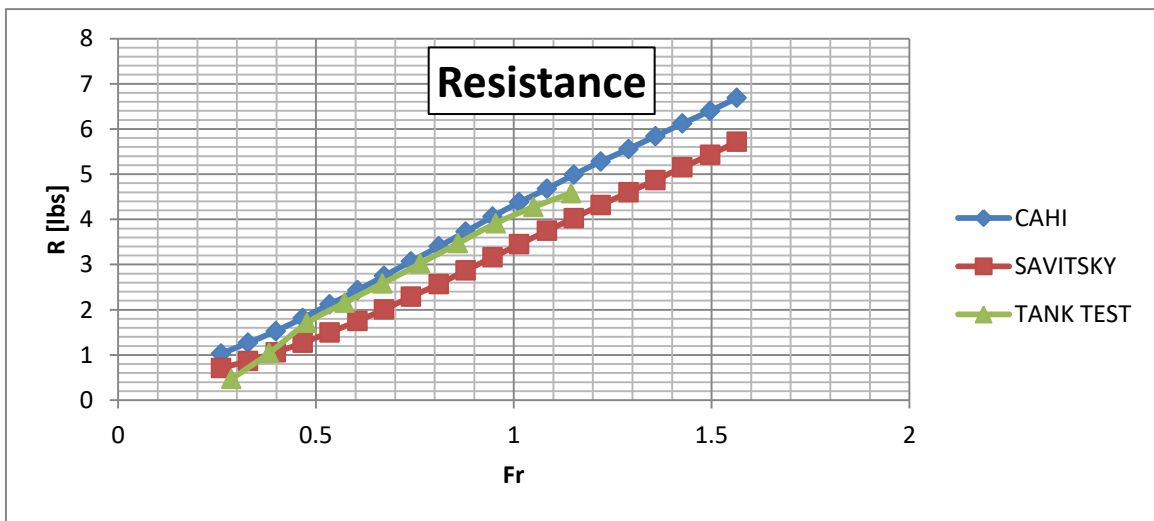
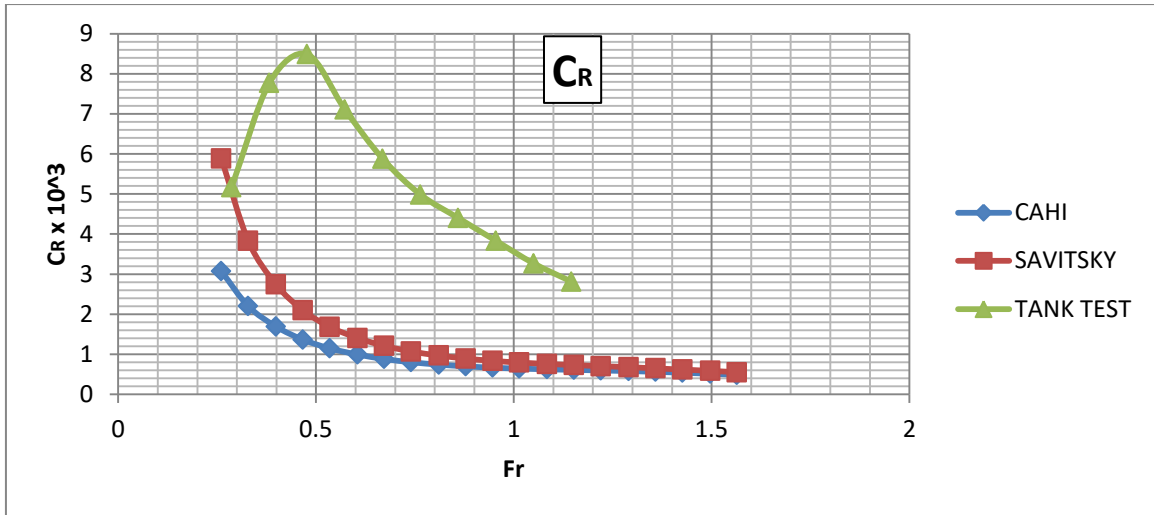
b=19.00 deg Bc=0.27 m Disp=10.46 kp LCG=0.69 m

| ~CAHI~ | | | | | | | ~SAVITSKY~ | | | | | |
|-------------|------------|---------------|------------|-----------------------|-----------------------|------------|------------|---------------|------------|-----------------------|-----------------------|------------|
| Vs [m/s] | Lamda - | Trim [deg] | D/W [%] | Cr 10 ³ | Ct 10 ³ | R [lbs] | Lamda - | Trim [deg] | D/W [%] | Cr 10 ³ | Ct 10 ³ | R [lbs] |
| 1.00 | 15.77 | 1.44 | 0.05 | 4.172 | 7.702 | 1.07 | 7.50 | 1.28 | 0.03 | 7.793 | 11.874 | 0.78 |
| 1.26 | 14.33 | 1.49 | 0.06 | 2.982 | 6.422 | 1.29 | 7.41 | 1.32 | 0.04 | 5.100 | 9.003 | 0.94 |
| 1.53 | 13.22 | 1.54 | 0.07 | 2.291 | 5.662 | 1.53 | 7.31 | 1.37 | 0.05 | 3.670 | 7.441 | 1.12 |
| 1.79 | 12.32 | 1.60 | 0.08 | 1.855 | 5.172 | 1.79 | 7.19 | 1.42 | 0.06 | 2.823 | 6.491 | 1.32 |
| 2.05 | 11.55 | 1.66 | 0.09 | 1.563 | 4.837 | 2.07 | 7.06 | 1.48 | 0.07 | 2.284 | 5.871 | 1.53 |
| 2.32 | 10.86 | 1.73 | 0.10 | 1.360 | 4.599 | 2.35 | 6.90 | 1.55 | 0.08 | 1.922 | 5.444 | 1.77 |
| 2.58 | 10.24 | 1.80 | 0.11 | 1.216 | 4.428 | 2.64 | 6.72 | 1.63 | 0.09 | 1.672 | 5.140 | 2.02 |
| 2.84 | 9.65 | 1.89 | 0.13 | 1.114 | 4.303 | 2.94 | 6.53 | 1.72 | 0.10 | 1.494 | 4.919 | 2.28 |
| 3.11 | 9.10 | 1.98 | 0.14 | 1.040 | 4.212 | 3.24 | 6.32 | 1.81 | 0.11 | 1.366 | 4.756 | 2.54 |
| 3.37 | 8.58 | 2.09 | 0.15 | 0.988 | 4.147 | 3.54 | 6.10 | 1.92 | 0.12 | 1.273 | 4.634 | 2.81 |
| 3.63 | 8.09 | 2.20 | 0.17 | 0.950 | 4.102 | 3.83 | 5.87 | 2.02 | 0.13 | 1.203 | 4.541 | 3.08 |
| 3.89 | 7.62 | 2.31 | 0.18 | 0.923 | 4.069 | 4.11 | 5.64 | 2.13 | 0.15 | 1.148 | 4.468 | 3.35 |
| 4.16 | 7.18 | 2.42 | 0.19 | 0.900 | 4.043 | 4.38 | 5.41 | 2.23 | 0.16 | 1.101 | 4.406 | 3.61 |
| 4.42 | 6.78 | 2.51 | 0.20 | 0.877 | 4.018 | 4.65 | 5.20 | 2.32 | 0.17 | 1.056 | 4.349 | 3.87 |
| 4.68 | 6.42 | 2.58 | 0.21 | 0.850 | 3.989 | 4.90 | 5.00 | 2.40 | 0.18 | 1.010 | 4.292 | 4.12 |
| 4.95 | 6.11 | 2.63 | 0.22 | 0.818 | 3.954 | 5.15 | 4.82 | 2.45 | 0.19 | 0.960 | 4.232 | 4.37 |
| 5.21 | 5.83 | 2.66 | 0.23 | 0.779 | 3.913 | 5.40 | 4.66 | 2.48 | 0.20 | 0.907 | 4.168 | 4.61 |
| 5.47 | 5.60 | 2.66 | 0.24 | 0.736 | 3.865 | 5.64 | 4.52 | 2.50 | 0.21 | 0.851 | 4.101 | 4.86 |
| 5.74 | 5.39 | 2.64 | 0.26 | 0.690 | 3.814 | 5.89 | 4.41 | 2.49 | 0.22 | 0.794 | 4.032 | 5.11 |
| 6.00 | 5.22 | 2.60 | 0.27 | 0.644 | 3.761 | 6.15 | 4.30 | 2.47 | 0.23 | 0.737 | 3.962 | 5.36 |



b=19.00 deg Bc=0.27 m Disp=10.46 kp LCG=0.75 m

| ~CAHI~ | | | | | | | ~SAVITSKY~ | | | | | |
|-------------|------------|---------------|------------|-----------------------|-----------------------|------------|------------|---------------|------------|-----------------------|-----------------------|------------|
| Vs [m/s] | Lamda - | Trim [deg] | D/W [%] | Cr 10 ³ | Ct 10 ³ | R [lbs] | Lamda - | Trim [deg] | D/W [%] | Cr 10 ³ | Ct 10 ³ | R [lbs] |
| 1.00 | 17.91 | 1.20 | 0.04 | 3.072 | 6.518 | 1.03 | 8.17 | 1.05 | 0.03 | 5.885 | 9.895 | 0.71 |
| 1.26 | 16.27 | 1.25 | 0.06 | 2.201 | 5.561 | 1.27 | 8.10 | 1.08 | 0.04 | 3.834 | 7.670 | 0.87 |
| 1.53 | 15.02 | 1.29 | 0.07 | 1.691 | 4.985 | 1.53 | 8.00 | 1.12 | 0.05 | 2.744 | 6.450 | 1.06 |
| 1.79 | 14.00 | 1.34 | 0.08 | 1.366 | 4.607 | 1.82 | 7.89 | 1.16 | 0.06 | 2.097 | 5.701 | 1.27 |
| 2.05 | 13.14 | 1.39 | 0.09 | 1.147 | 4.345 | 2.12 | 7.77 | 1.20 | 0.07 | 1.684 | 5.206 | 1.50 |
| 2.32 | 12.38 | 1.44 | 0.11 | 0.993 | 4.156 | 2.43 | 7.62 | 1.25 | 0.08 | 1.405 | 4.861 | 1.75 |
| 2.58 | 11.70 | 1.50 | 0.12 | 0.882 | 4.017 | 2.75 | 7.46 | 1.31 | 0.09 | 1.210 | 4.611 | 2.01 |
| 2.84 | 11.07 | 1.56 | 0.13 | 0.801 | 3.913 | 3.07 | 7.28 | 1.37 | 0.10 | 1.070 | 4.426 | 2.29 |
| 3.11 | 10.48 | 1.63 | 0.15 | 0.741 | 3.835 | 3.40 | 7.08 | 1.44 | 0.11 | 0.968 | 4.286 | 2.57 |
| 3.37 | 9.92 | 1.71 | 0.16 | 0.698 | 3.777 | 3.73 | 6.87 | 1.52 | 0.12 | 0.893 | 4.180 | 2.87 |
| 3.63 | 9.39 | 1.79 | 0.18 | 0.666 | 3.734 | 4.06 | 6.65 | 1.60 | 0.14 | 0.836 | 4.098 | 3.16 |
| 3.89 | 8.88 | 1.88 | 0.19 | 0.642 | 3.703 | 4.38 | 6.43 | 1.68 | 0.15 | 0.793 | 4.035 | 3.45 |
| 4.16 | 8.40 | 1.97 | 0.20 | 0.625 | 3.680 | 4.68 | 6.19 | 1.77 | 0.16 | 0.759 | 3.984 | 3.75 |
| 4.42 | 7.95 | 2.06 | 0.22 | 0.610 | 3.663 | 4.99 | 5.97 | 1.85 | 0.17 | 0.730 | 3.941 | 4.03 |
| 4.68 | 7.54 | 2.13 | 0.23 | 0.596 | 3.647 | 5.28 | 5.75 | 1.93 | 0.19 | 0.703 | 3.903 | 4.32 |
| 4.95 | 7.16 | 2.20 | 0.24 | 0.580 | 3.629 | 5.56 | 5.54 | 1.99 | 0.20 | 0.677 | 3.866 | 4.60 |
| 5.21 | 6.82 | 2.25 | 0.25 | 0.562 | 3.609 | 5.84 | 5.35 | 2.04 | 0.21 | 0.648 | 3.828 | 4.87 |
| 5.47 | 6.52 | 2.28 | 0.27 | 0.539 | 3.584 | 6.12 | 5.18 | 2.08 | 0.22 | 0.618 | 3.789 | 5.15 |
| 5.74 | 6.26 | 2.29 | 0.28 | 0.514 | 3.556 | 6.40 | 5.03 | 2.10 | 0.24 | 0.586 | 3.747 | 5.43 |
| 6.00 | 6.04 | 2.28 | 0.29 | 0.487 | 3.524 | 6.69 | 4.89 | 2.11 | 0.25 | 0.552 | 3.703 | 5.72 |



Simulation Info:

28/06/2019 06:48:21 pm

Input Data:

Ship Speed: from Vs1=1.00 m/s to Vs2=6.00 m/s (for 20 different Ship Speed values)

Ship Displacement: Disp=15.01 kp

Breadth at Chine: Bc=0.27 m

Deadrise Angle: b=19.00 deg

LCG: from LCG1=0.63 m to LCG2=0.75 m (for 3 different LCG values)

Fresh water properties at 18.00C:

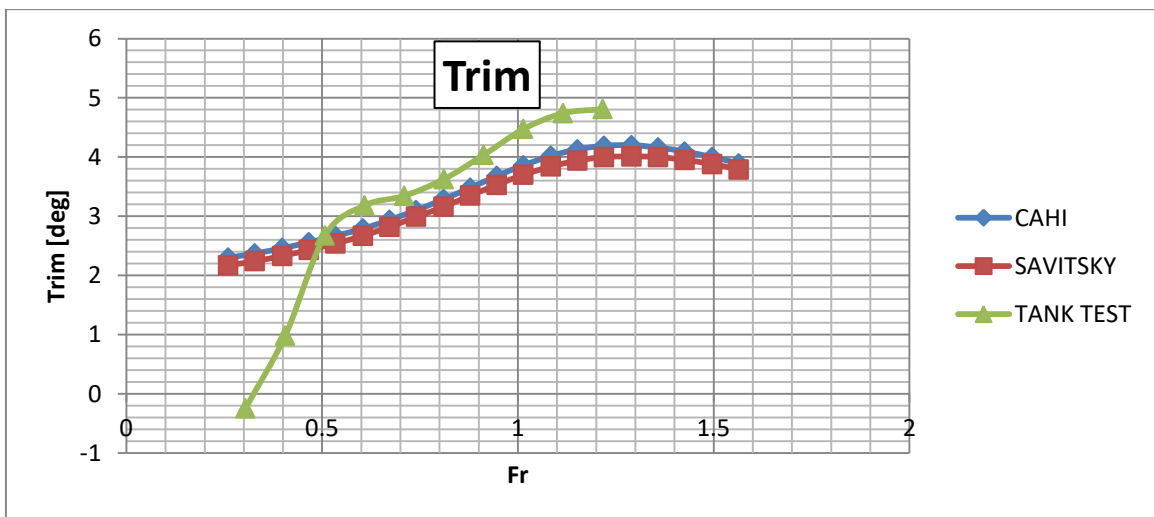
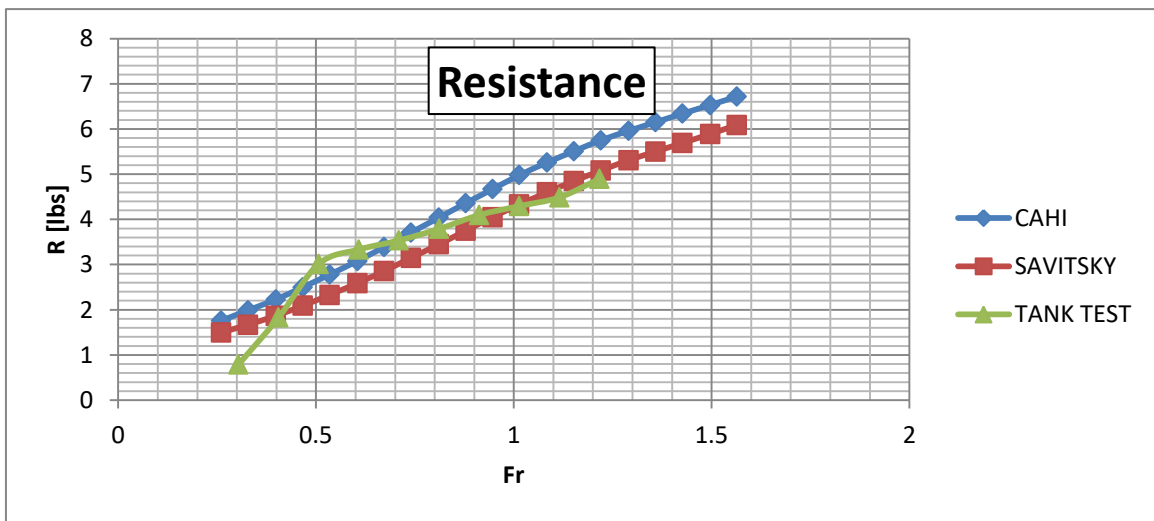
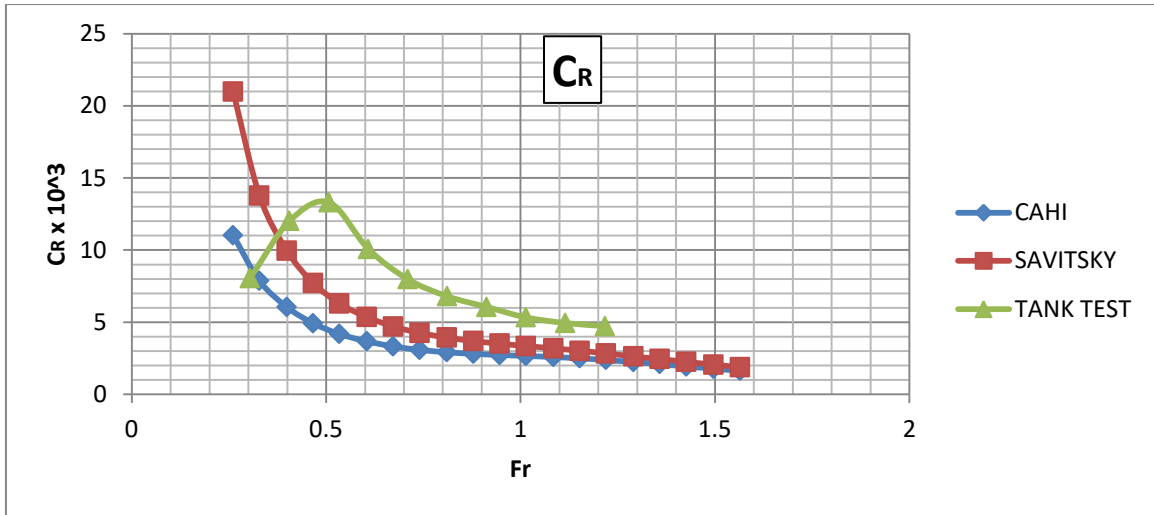
Density=998.50 kg/m³

Viscosity=1.05456*10⁻⁶ m²/s

Results:

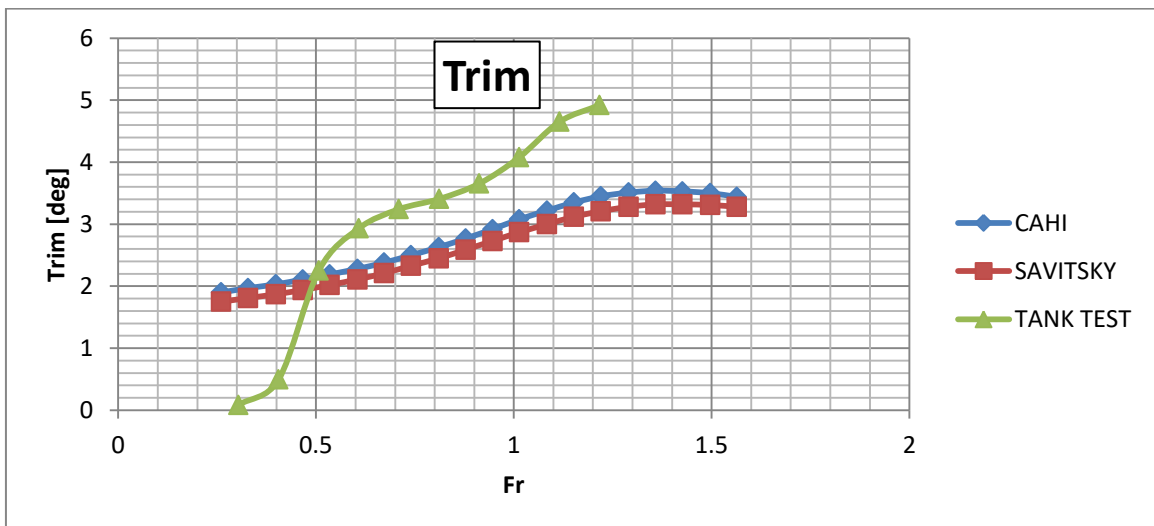
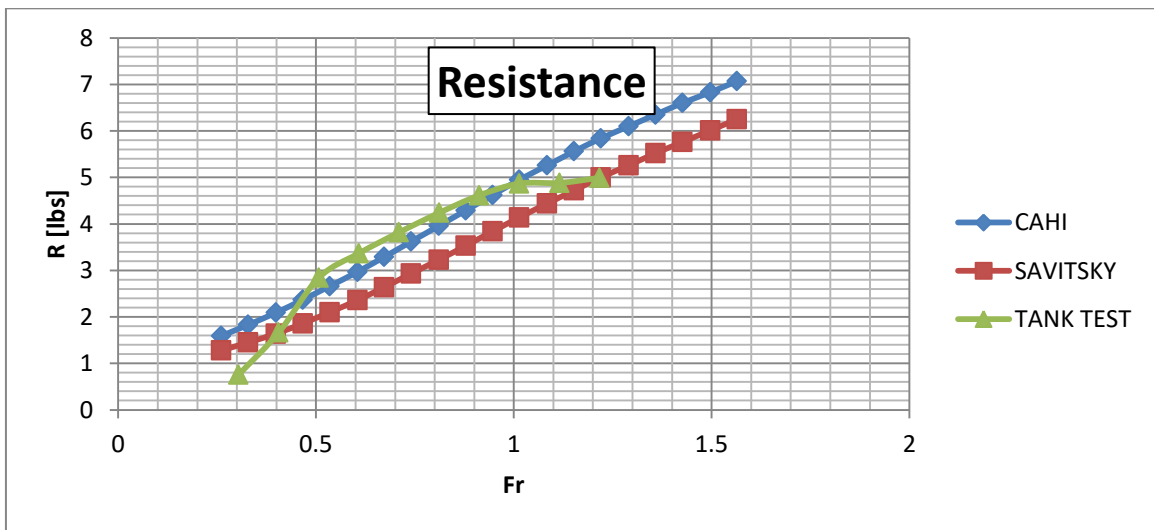
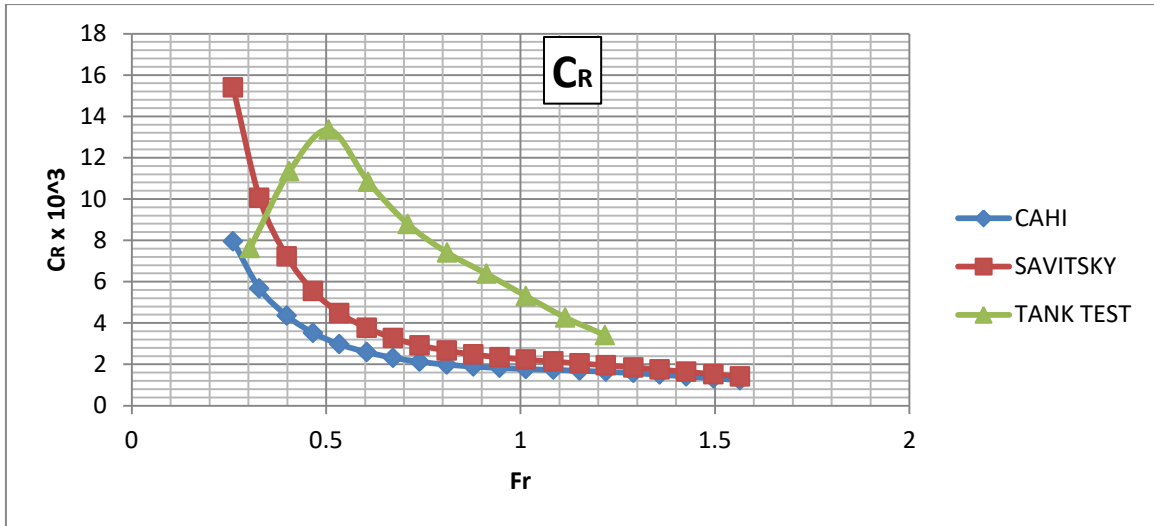
b=19.00 deg Bc=0.27 m Disp=15.01 kp LCG=0.63 m

| ~CAHI~ | | | | | | | ~SAVITSKY~ | | | | | |
|--------|-------|-------|------|-----------------|-----------------|-------|------------|-------|------|-----------------|-----------------|-------|
| Vs | Lamda | Trim | D/W | Cr | Ct | R | Lamda | Trim | D/W | Cr | Ct | R |
| [m/s] | - | [deg] | [%] | 10 ³ | 10 ³ | [lbs] | - | [deg] | [%] | 10 ³ | 10 ³ | [lbs] |
| 1.00 | 13.74 | 2.30 | 0.05 | 11.030 | 14.654 | 1.76 | 6.82 | 2.17 | 0.05 | 20.976 | 25.139 | 1.50 |
| 1.26 | 12.49 | 2.37 | 0.06 | 7.866 | 11.397 | 1.99 | 6.73 | 2.24 | 0.05 | 13.778 | 17.759 | 1.67 |
| 1.53 | 11.53 | 2.46 | 0.07 | 6.054 | 9.514 | 2.23 | 6.62 | 2.33 | 0.06 | 9.966 | 13.813 | 1.87 |
| 1.79 | 10.72 | 2.56 | 0.08 | 4.923 | 8.328 | 2.50 | 6.49 | 2.43 | 0.06 | 7.718 | 11.462 | 2.09 |
| 2.05 | 10.03 | 2.67 | 0.08 | 4.178 | 7.539 | 2.78 | 6.34 | 2.54 | 0.07 | 6.296 | 9.959 | 2.33 |
| 2.32 | 9.41 | 2.79 | 0.09 | 3.672 | 6.998 | 3.08 | 6.16 | 2.67 | 0.08 | 5.352 | 8.951 | 2.59 |
| 2.58 | 8.83 | 2.94 | 0.10 | 3.322 | 6.621 | 3.39 | 5.97 | 2.82 | 0.09 | 4.706 | 8.253 | 2.86 |
| 2.84 | 8.29 | 3.10 | 0.11 | 3.080 | 6.360 | 3.71 | 5.76 | 2.99 | 0.10 | 4.254 | 7.761 | 3.15 |
| 3.11 | 7.78 | 3.29 | 0.12 | 2.916 | 6.182 | 4.04 | 5.54 | 3.16 | 0.10 | 3.932 | 7.407 | 3.45 |
| 3.37 | 7.30 | 3.48 | 0.13 | 2.805 | 6.061 | 4.36 | 5.31 | 3.35 | 0.11 | 3.695 | 7.146 | 3.75 |
| 3.63 | 6.84 | 3.68 | 0.14 | 2.726 | 5.976 | 4.67 | 5.08 | 3.53 | 0.12 | 3.510 | 6.941 | 4.05 |
| 3.89 | 6.42 | 3.86 | 0.15 | 2.659 | 5.906 | 4.98 | 4.86 | 3.70 | 0.13 | 3.347 | 6.763 | 4.33 |
| 4.16 | 6.04 | 4.02 | 0.16 | 2.586 | 5.831 | 5.26 | 4.65 | 3.84 | 0.14 | 3.188 | 6.590 | 4.60 |
| 4.42 | 5.70 | 4.13 | 0.17 | 2.493 | 5.736 | 5.51 | 4.46 | 3.94 | 0.15 | 3.019 | 6.409 | 4.85 |
| 4.68 | 5.41 | 4.19 | 0.17 | 2.377 | 5.617 | 5.75 | 4.30 | 4.00 | 0.15 | 2.838 | 6.215 | 5.08 |
| 4.95 | 5.16 | 4.20 | 0.18 | 2.240 | 5.476 | 5.96 | 4.19 | 4.01 | 0.16 | 2.626 | 5.986 | 5.31 |
| 5.21 | 4.95 | 4.16 | 0.19 | 2.090 | 5.319 | 6.15 | 4.03 | 4.00 | 0.17 | 2.447 | 5.798 | 5.50 |
| 5.47 | 4.77 | 4.09 | 0.19 | 1.933 | 5.155 | 6.34 | 3.93 | 3.95 | 0.17 | 2.250 | 5.586 | 5.69 |
| 5.74 | 4.62 | 4.00 | 0.20 | 1.777 | 4.991 | 6.53 | 3.84 | 3.88 | 0.18 | 2.058 | 5.380 | 5.89 |
| 6.00 | 4.49 | 3.89 | 0.20 | 1.626 | 4.831 | 6.72 | 3.76 | 3.79 | 0.18 | 1.877 | 5.184 | 6.09 |



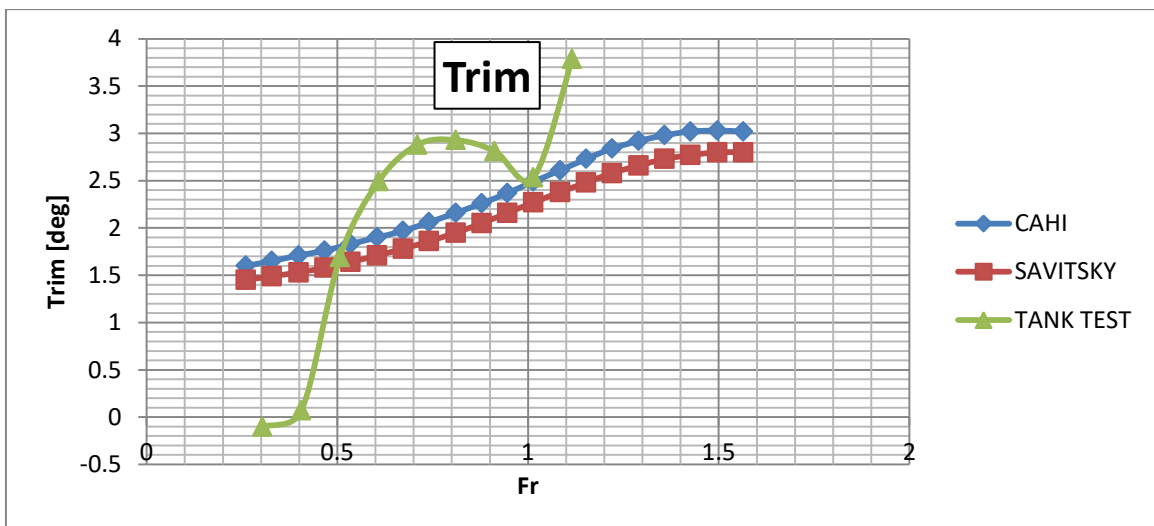
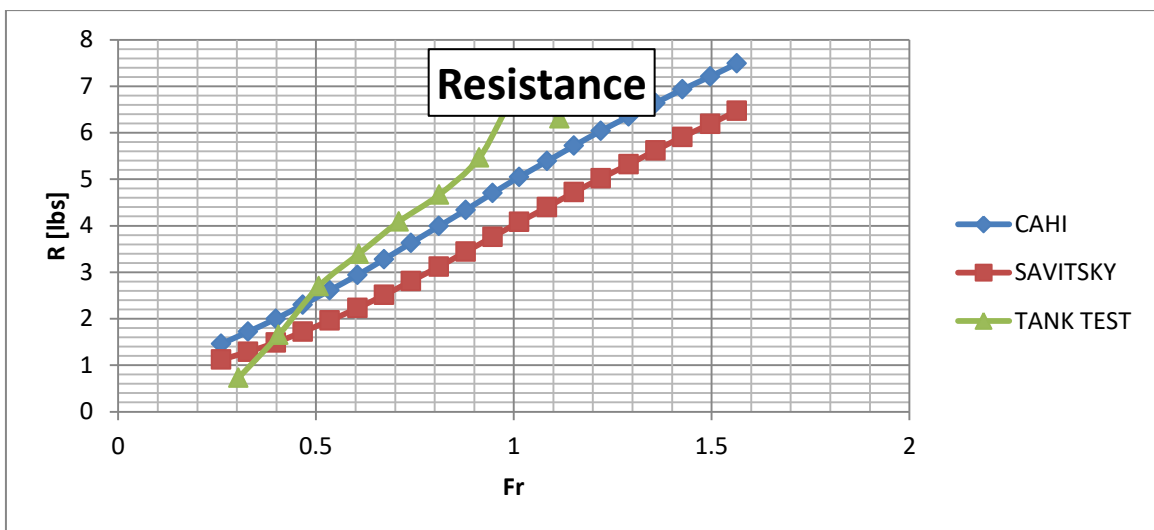
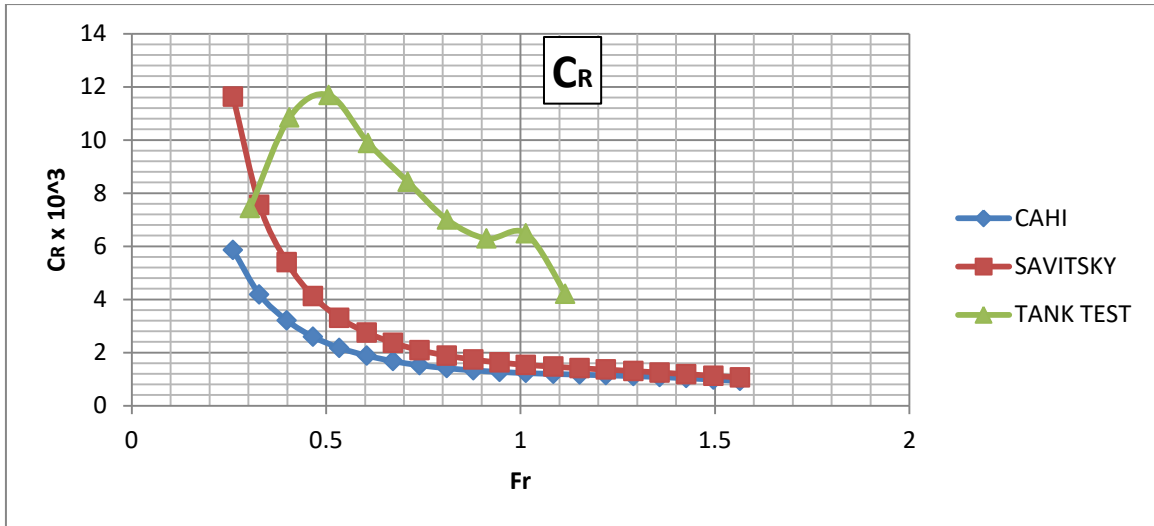
b=19.00 deg Bc=0.27 m Disp=15.01 kp LCG=0.69 m

| ~CAHI~ | | | | | | | ~SAVITSKY~ | | | | | |
|-------------|------------|---------------|------------|-----------------------|-----------------------|------------|------------|---------------|------------|-----------------------|-----------------------|------------|
| Vs [m/s] | Lamda - | Trim [deg] | D/W [%] | Cr 10 ³ | Ct 10 ³ | R [lbs] | Lamda - | Trim [deg] | D/W [%] | Cr 10 ³ | Ct 10 ³ | R [lbs] |
| 1.00 | 15.77 | 1.90 | 0.05 | 7.952 | 11.482 | 1.59 | 7.50 | 1.75 | 0.04 | 15.400 | 19.482 | 1.28 |
| 1.26 | 14.33 | 1.97 | 0.06 | 5.670 | 9.110 | 1.83 | 7.41 | 1.81 | 0.04 | 10.058 | 13.962 | 1.45 |
| 1.53 | 13.22 | 2.03 | 0.06 | 4.352 | 7.724 | 2.09 | 7.31 | 1.87 | 0.05 | 7.223 | 10.995 | 1.64 |
| 1.79 | 12.32 | 2.11 | 0.07 | 3.523 | 6.840 | 2.37 | 7.19 | 1.94 | 0.06 | 5.546 | 9.215 | 1.86 |
| 2.05 | 11.55 | 2.19 | 0.08 | 2.969 | 6.244 | 2.66 | 7.06 | 2.02 | 0.06 | 4.478 | 8.066 | 2.10 |
| 2.32 | 10.86 | 2.28 | 0.09 | 2.587 | 5.827 | 2.97 | 6.90 | 2.11 | 0.07 | 3.763 | 7.285 | 2.36 |
| 2.58 | 10.24 | 2.38 | 0.10 | 2.316 | 5.528 | 3.29 | 6.72 | 2.21 | 0.08 | 3.267 | 6.736 | 2.64 |
| 2.84 | 9.65 | 2.50 | 0.11 | 2.123 | 5.313 | 3.62 | 6.53 | 2.33 | 0.09 | 2.916 | 6.341 | 2.93 |
| 3.11 | 9.10 | 2.63 | 0.12 | 1.986 | 5.159 | 3.96 | 6.32 | 2.45 | 0.10 | 2.662 | 6.052 | 3.23 |
| 3.37 | 8.58 | 2.77 | 0.13 | 1.890 | 5.050 | 4.29 | 6.10 | 2.59 | 0.11 | 2.476 | 5.837 | 3.53 |
| 3.63 | 8.09 | 2.92 | 0.14 | 1.822 | 4.974 | 4.62 | 5.87 | 2.73 | 0.12 | 2.336 | 5.675 | 3.84 |
| 3.89 | 7.62 | 3.08 | 0.15 | 1.772 | 4.919 | 4.95 | 5.64 | 2.87 | 0.13 | 2.225 | 5.547 | 4.14 |
| 4.16 | 7.18 | 3.22 | 0.16 | 1.730 | 4.874 | 5.26 | 5.41 | 3.00 | 0.13 | 2.131 | 5.438 | 4.44 |
| 4.42 | 6.78 | 3.35 | 0.17 | 1.688 | 4.829 | 5.56 | 5.20 | 3.12 | 0.14 | 2.041 | 5.336 | 4.72 |
| 4.68 | 6.42 | 3.45 | 0.18 | 1.636 | 4.776 | 5.84 | 5.00 | 3.21 | 0.15 | 1.949 | 5.233 | 5.00 |
| 4.95 | 6.11 | 3.51 | 0.18 | 1.573 | 4.711 | 6.10 | 4.82 | 3.28 | 0.16 | 1.851 | 5.124 | 5.26 |
| 5.21 | 5.83 | 3.54 | 0.19 | 1.498 | 4.633 | 6.35 | 4.66 | 3.32 | 0.17 | 1.746 | 5.008 | 5.52 |
| 5.47 | 5.60 | 3.53 | 0.20 | 1.413 | 4.544 | 6.60 | 4.52 | 3.32 | 0.17 | 1.636 | 4.886 | 5.76 |
| 5.74 | 5.39 | 3.50 | 0.21 | 1.323 | 4.448 | 6.83 | 4.41 | 3.31 | 0.18 | 1.523 | 4.762 | 6.01 |
| 6.00 | 5.22 | 3.44 | 0.21 | 1.230 | 4.349 | 7.07 | 4.30 | 3.28 | 0.19 | 1.411 | 4.638 | 6.25 |



b=19.00 deg Bc=0.27 m Disp=15.01 kp LCG=0.75 m

| ~CAHI~ | | | | | | | ~SAVITSKY~ | | | | | |
|-------------|------------|---------------|------------|-----------------------|-----------------------|------------|------------|---------------|------------|-----------------------|-----------------------|------------|
| Vs [m/s] | Lamda - | Trim [deg] | D/W [%] | Cr 10 ³ | Ct 10 ³ | R [lbs] | Lamda - | Trim [deg] | D/W [%] | Cr 10 ³ | Ct 10 ³ | R [lbs] |
| 1.00 | 17.91 | 1.60 | 0.04 | 5.861 | 9.308 | 1.46 | 8.17 | 1.45 | 0.03 | 11.624 | 15.635 | 1.12 |
| 1.26 | 16.27 | 1.65 | 0.05 | 4.184 | 7.545 | 1.72 | 8.10 | 1.49 | 0.04 | 7.558 | 11.395 | 1.29 |
| 1.53 | 15.02 | 1.71 | 0.06 | 3.209 | 6.503 | 2.00 | 8.00 | 1.53 | 0.05 | 5.399 | 9.104 | 1.49 |
| 1.79 | 14.00 | 1.76 | 0.07 | 2.590 | 5.831 | 2.30 | 7.89 | 1.58 | 0.05 | 4.118 | 7.722 | 1.72 |
| 2.05 | 13.14 | 1.83 | 0.08 | 2.174 | 5.372 | 2.61 | 7.77 | 1.64 | 0.06 | 3.299 | 6.822 | 1.96 |
| 2.32 | 12.38 | 1.90 | 0.09 | 1.882 | 5.046 | 2.94 | 7.62 | 1.71 | 0.07 | 2.748 | 6.205 | 2.23 |
| 2.58 | 11.70 | 1.97 | 0.10 | 1.673 | 4.808 | 3.28 | 7.46 | 1.78 | 0.08 | 2.363 | 5.765 | 2.51 |
| 2.84 | 11.07 | 2.06 | 0.11 | 1.521 | 4.633 | 3.63 | 7.28 | 1.86 | 0.08 | 2.086 | 5.443 | 2.81 |
| 3.11 | 10.48 | 2.16 | 0.12 | 1.409 | 4.503 | 3.99 | 7.08 | 1.95 | 0.09 | 1.884 | 5.203 | 3.12 |
| 3.37 | 9.92 | 2.26 | 0.13 | 1.328 | 4.407 | 4.34 | 6.87 | 2.05 | 0.10 | 1.734 | 5.022 | 3.44 |
| 3.63 | 9.39 | 2.37 | 0.14 | 1.269 | 4.338 | 4.70 | 6.65 | 2.16 | 0.11 | 1.622 | 4.885 | 3.76 |
| 3.89 | 8.88 | 2.49 | 0.15 | 1.226 | 4.287 | 5.05 | 6.43 | 2.27 | 0.12 | 1.535 | 4.778 | 4.08 |
| 4.16 | 8.40 | 2.61 | 0.16 | 1.194 | 4.250 | 5.39 | 6.19 | 2.38 | 0.13 | 1.467 | 4.693 | 4.40 |
| 4.42 | 7.95 | 2.73 | 0.17 | 1.167 | 4.221 | 5.72 | 5.97 | 2.48 | 0.14 | 1.409 | 4.621 | 4.72 |
| 4.68 | 7.54 | 2.84 | 0.18 | 1.141 | 4.192 | 6.04 | 5.75 | 2.58 | 0.15 | 1.356 | 4.557 | 5.02 |
| 4.95 | 7.16 | 2.92 | 0.19 | 1.111 | 4.161 | 6.35 | 5.54 | 2.66 | 0.16 | 1.302 | 4.493 | 5.32 |
| 5.21 | 6.82 | 2.98 | 0.20 | 1.075 | 4.123 | 6.64 | 5.35 | 2.73 | 0.17 | 1.246 | 4.427 | 5.62 |
| 5.47 | 6.52 | 3.02 | 0.21 | 1.031 | 4.077 | 6.93 | 5.18 | 2.77 | 0.18 | 1.186 | 4.358 | 5.91 |
| 5.74 | 6.26 | 3.03 | 0.22 | 0.982 | 4.025 | 7.21 | 5.03 | 2.80 | 0.19 | 1.123 | 4.285 | 6.19 |
| 6.00 | 6.04 | 3.02 | 0.23 | 0.928 | 3.967 | 7.49 | 4.89 | 2.80 | 0.20 | 1.057 | 4.209 | 6.47 |



Simulation Info:

 28/06/2019 06:49:32 pm

Input Data:

 Ship Speed: from Vs1=1.00 m/s to Vs2=6.00 m/s (for 20 different Ship Speed values)
 Ship Displacement: Disp=24.20 kp
 Breadth at Chine: Bc=0.27 m
 Deadrise Angle: b=19.00 deg
 LCG: from LCG1=0.63 m to LCG2=0.75 m (for 3 different LCG values)

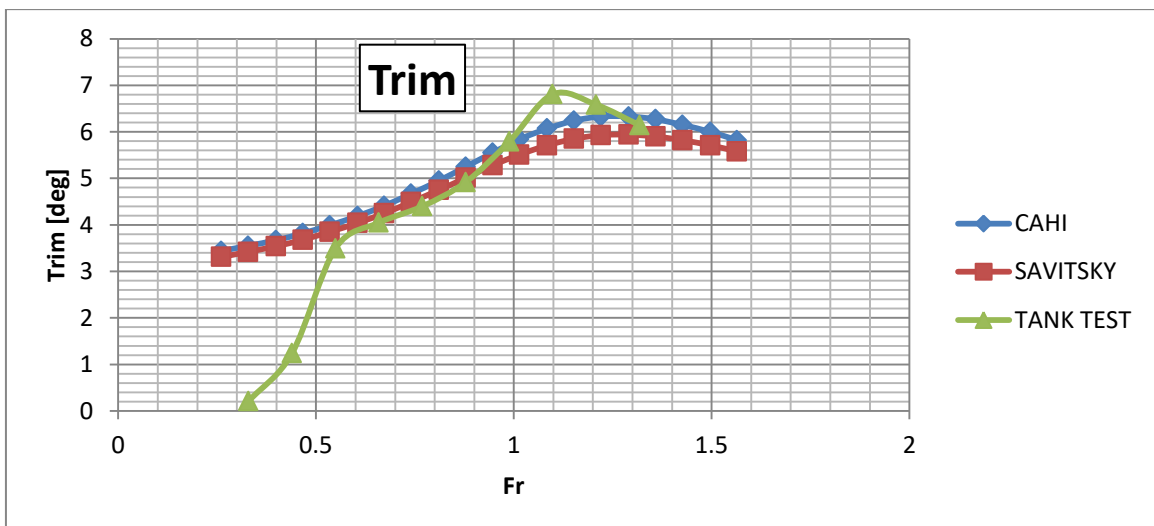
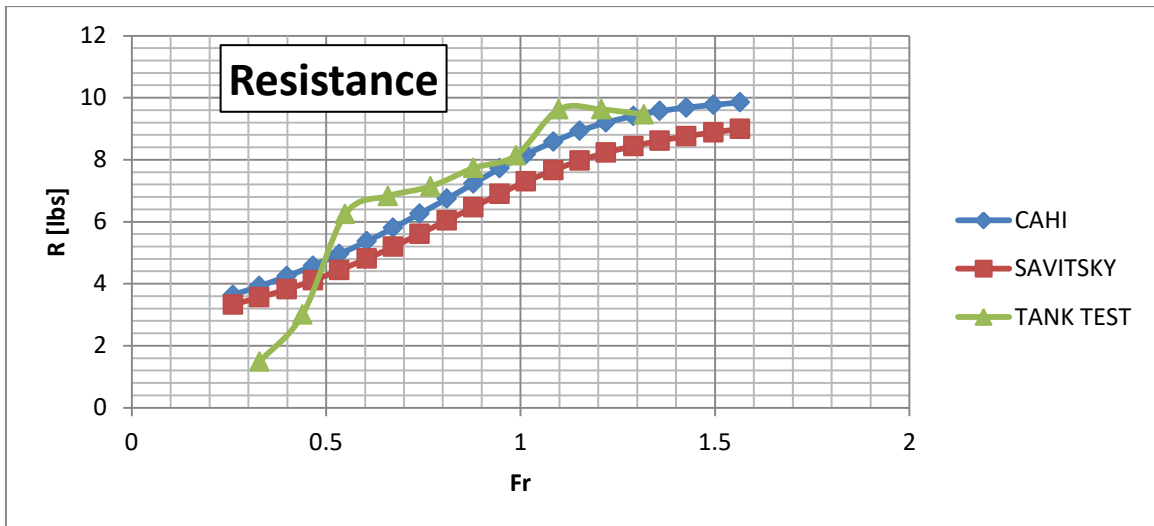
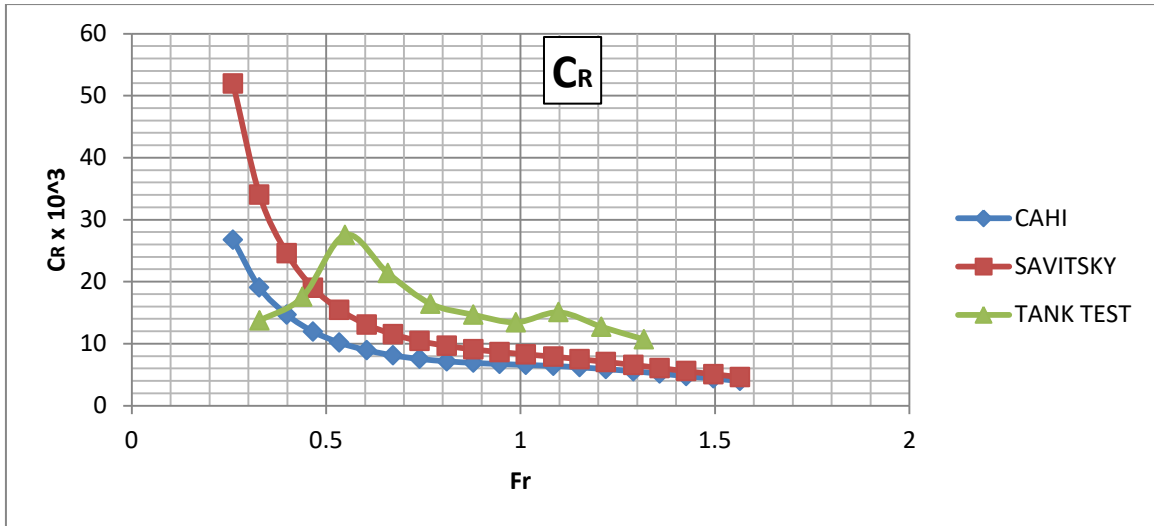
Fresh water properties at 18.00C:

Density=998.50 kg/m³
 Viscosity=1.05456*10⁻⁶ m²/s

Results:

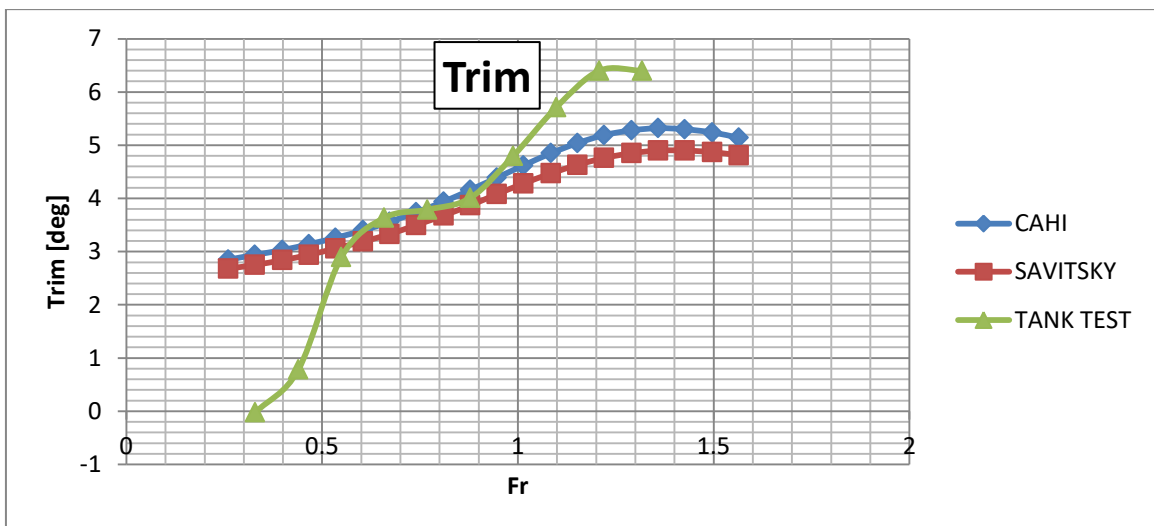
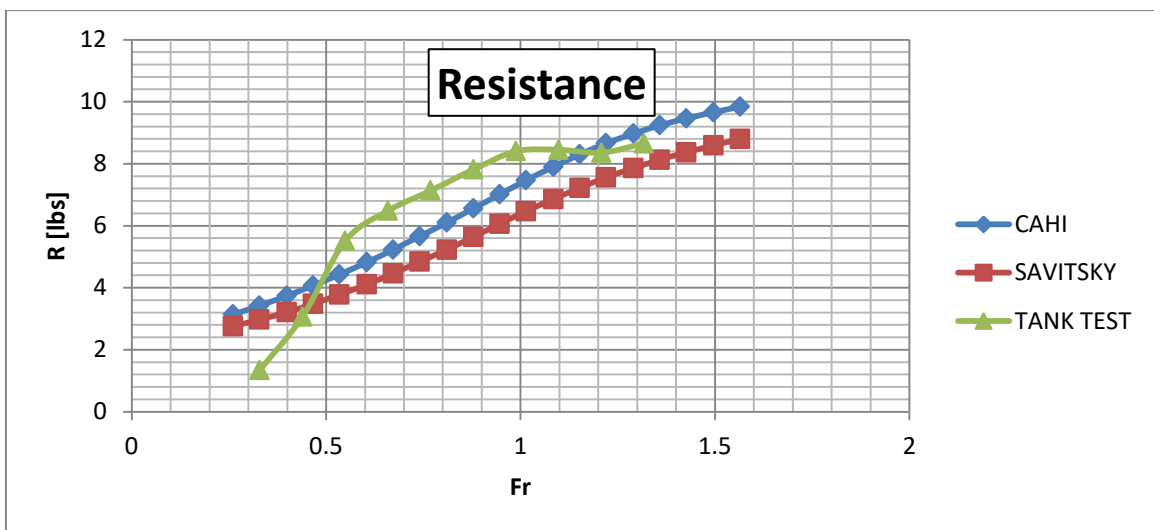
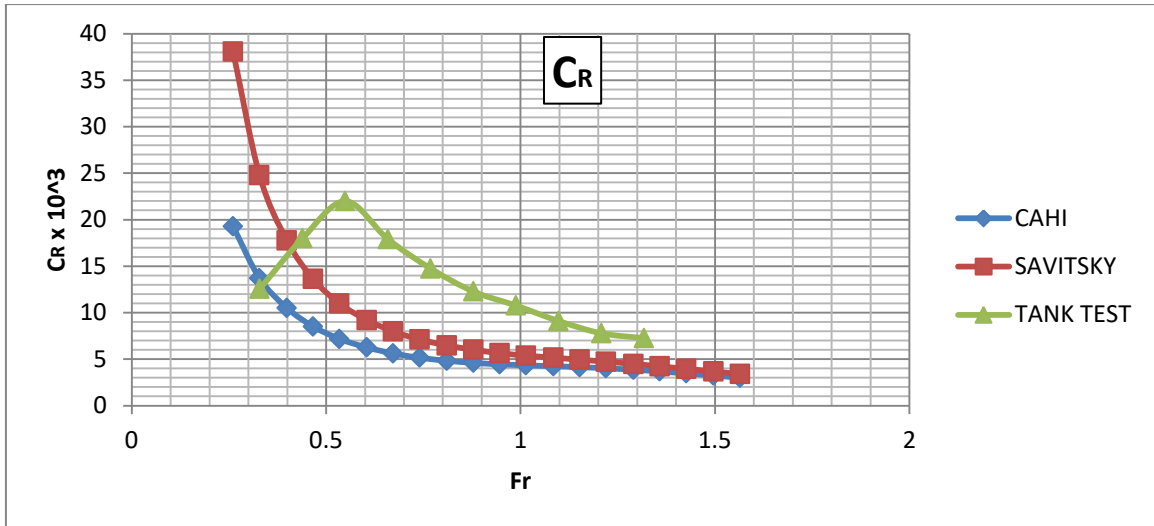
b=19.00 deg Bc=0.27 m Disp=24.20 kp LCG=0.63 m

| ~CAHI~ | | | | | | | ~SAVITSKY~ | | | | | |
|--------|-------|-------|------|-----------------|-----------------|-------|------------|-------|------|-----------------|-----------------|-------|
| Vs | Lamda | Trim | D/W | Cr | Ct | R | Lamda | Trim | D/W | Cr | Ct | R |
| [m/s] | - | [deg] | [%] | 10 ³ | 10 ³ | [lbs] | - | [deg] | [%] | 10 ³ | 10 ³ | [lbs] |
| 1.00 | 13.74 | 3.44 | 0.07 | 26.754 | 30.380 | 3.64 | 6.82 | 3.31 | 0.06 | 51.921 | 56.086 | 3.33 |
| 1.26 | 12.49 | 3.55 | 0.07 | 19.061 | 22.593 | 3.92 | 6.73 | 3.42 | 0.07 | 34.032 | 38.015 | 3.56 |
| 1.53 | 11.53 | 3.67 | 0.08 | 14.672 | 18.134 | 4.24 | 6.62 | 3.54 | 0.07 | 24.567 | 28.416 | 3.82 |
| 1.79 | 10.72 | 3.82 | 0.09 | 11.943 | 15.349 | 4.58 | 6.49 | 3.68 | 0.08 | 18.991 | 22.737 | 4.11 |
| 2.05 | 10.03 | 3.99 | 0.09 | 10.150 | 13.513 | 4.96 | 6.34 | 3.85 | 0.08 | 15.464 | 19.129 | 4.44 |
| 2.32 | 9.41 | 4.19 | 0.10 | 8.936 | 12.264 | 5.37 | 6.19 | 4.04 | 0.09 | 13.065 | 16.663 | 4.81 |
| 2.58 | 8.83 | 4.41 | 0.11 | 8.102 | 11.404 | 5.80 | 5.99 | 4.25 | 0.10 | 11.497 | 15.045 | 5.19 |
| 2.84 | 8.29 | 4.67 | 0.12 | 7.533 | 10.815 | 6.26 | 5.76 | 4.49 | 0.11 | 10.407 | 13.917 | 5.61 |
| 3.11 | 7.78 | 4.95 | 0.13 | 7.151 | 10.419 | 6.74 | 5.52 | 4.75 | 0.11 | 9.639 | 13.119 | 6.04 |
| 3.37 | 7.30 | 5.25 | 0.14 | 6.898 | 10.156 | 7.23 | 5.27 | 5.01 | 0.12 | 9.081 | 12.539 | 6.47 |
| 3.63 | 6.84 | 5.55 | 0.14 | 6.721 | 9.975 | 7.72 | 5.03 | 5.28 | 0.13 | 8.648 | 12.089 | 6.90 |
| 3.89 | 6.42 | 5.84 | 0.15 | 6.571 | 9.821 | 8.17 | 4.79 | 5.51 | 0.14 | 8.271 | 11.700 | 7.30 |
| 4.16 | 6.04 | 6.07 | 0.16 | 6.400 | 9.649 | 8.58 | 4.57 | 5.71 | 0.14 | 7.897 | 11.314 | 7.66 |
| 4.42 | 5.70 | 6.24 | 0.17 | 6.177 | 9.424 | 8.93 | 4.37 | 5.85 | 0.15 | 7.491 | 10.898 | 7.97 |
| 4.68 | 5.41 | 6.33 | 0.17 | 5.890 | 9.134 | 9.20 | 4.20 | 5.93 | 0.15 | 7.044 | 10.440 | 8.23 |
| 4.95 | 5.16 | 6.33 | 0.18 | 5.546 | 8.786 | 9.41 | 4.06 | 5.94 | 0.16 | 6.562 | 9.946 | 8.44 |
| 5.21 | 4.95 | 6.27 | 0.18 | 5.164 | 8.399 | 9.57 | 3.94 | 5.90 | 0.16 | 6.060 | 9.430 | 8.61 |
| 5.47 | 4.77 | 6.15 | 0.18 | 4.766 | 7.993 | 9.68 | 3.84 | 5.82 | 0.16 | 5.556 | 8.911 | 8.76 |
| 5.74 | 4.62 | 6.00 | 0.18 | 4.368 | 7.587 | 9.77 | 3.76 | 5.71 | 0.17 | 5.065 | 8.405 | 8.88 |
| 6.00 | 4.49 | 5.82 | 0.18 | 3.984 | 7.194 | 9.85 | 3.69 | 5.58 | 0.17 | 4.600 | 7.922 | 9.00 |



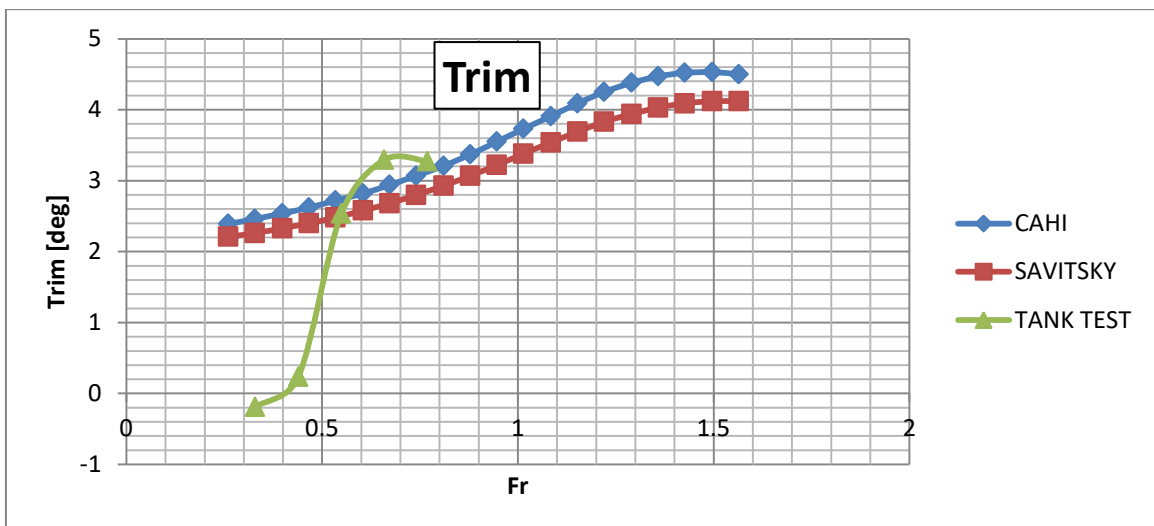
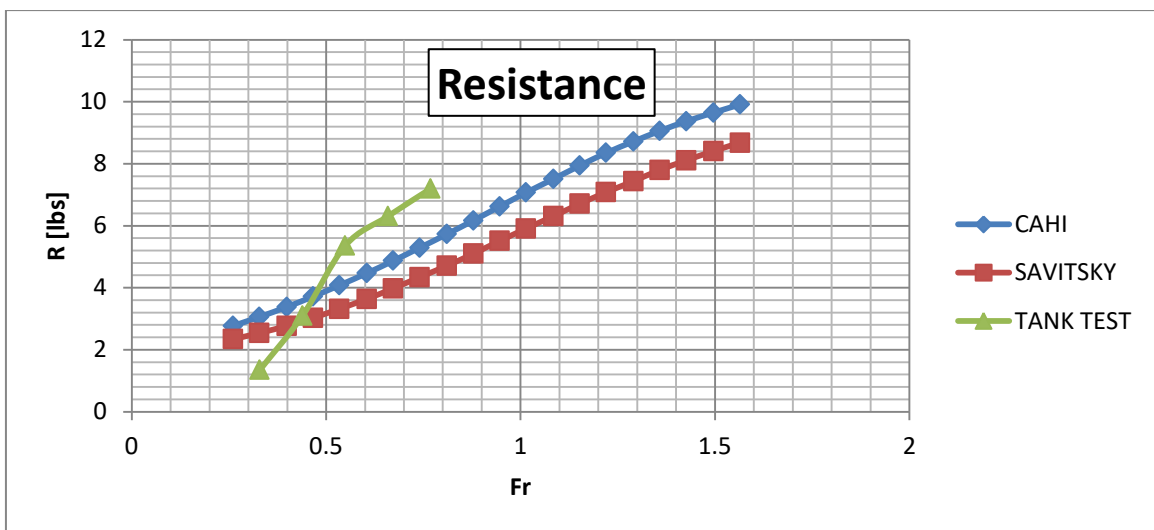
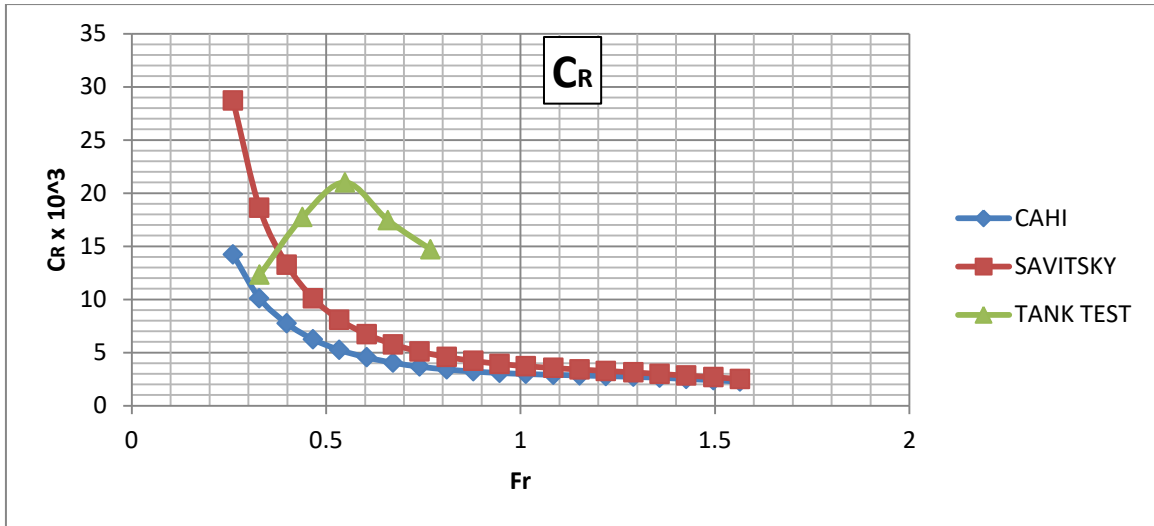
b=19.00 deg Bc=0.27 m Disp=24.20 kp LCG=0.69 m

| ~CAHI~ | | | | | | | ~SAVITSKY~ | | | | | |
|-------------|------------|---------------|------------|-----------------------|-----------------------|------------|------------|---------------|------------|-----------------------|-----------------------|------------|
| Vs [m/s] | Lamda - | Trim [deg] | D/W [%] | Cr 10 ³ | Ct 10 ³ | R [lbs] | Lamda - | Trim [deg] | D/W [%] | Cr 10 ³ | Ct 10 ³ | R [lbs] |
| 1.00 | 15.77 | 2.85 | 0.06 | 19.261 | 22.793 | 3.14 | 7.50 | 2.68 | 0.05 | 38.059 | 42.143 | 2.76 |
| 1.26 | 14.33 | 2.94 | 0.06 | 13.703 | 17.145 | 3.42 | 7.41 | 2.75 | 0.06 | 24.801 | 28.707 | 2.97 |
| 1.53 | 13.22 | 3.03 | 0.07 | 10.510 | 13.883 | 3.74 | 7.31 | 2.84 | 0.06 | 17.773 | 21.547 | 3.21 |
| 1.79 | 12.32 | 3.14 | 0.08 | 8.506 | 11.825 | 4.07 | 7.19 | 2.94 | 0.07 | 13.619 | 17.290 | 3.48 |
| 2.05 | 11.55 | 3.26 | 0.08 | 7.175 | 10.451 | 4.43 | 7.06 | 3.06 | 0.07 | 10.976 | 14.565 | 3.78 |
| 2.32 | 10.86 | 3.40 | 0.09 | 6.257 | 9.498 | 4.82 | 6.90 | 3.19 | 0.08 | 9.207 | 12.731 | 4.11 |
| 2.58 | 10.24 | 3.56 | 0.10 | 5.611 | 8.824 | 5.23 | 6.72 | 3.33 | 0.08 | 7.981 | 11.451 | 4.46 |
| 2.84 | 9.65 | 3.74 | 0.11 | 5.153 | 8.344 | 5.66 | 6.53 | 3.50 | 0.09 | 7.110 | 10.537 | 4.84 |
| 3.11 | 9.10 | 3.94 | 0.11 | 4.829 | 8.004 | 6.10 | 6.32 | 3.68 | 0.10 | 6.480 | 9.872 | 5.23 |
| 3.37 | 8.58 | 4.16 | 0.12 | 4.604 | 7.767 | 6.56 | 6.10 | 3.87 | 0.11 | 6.018 | 9.382 | 5.64 |
| 3.63 | 8.09 | 4.39 | 0.13 | 4.448 | 7.603 | 7.01 | 5.89 | 4.08 | 0.11 | 5.646 | 8.985 | 6.06 |
| 3.89 | 7.62 | 4.62 | 0.14 | 4.336 | 7.485 | 7.47 | 5.65 | 4.28 | 0.12 | 5.384 | 8.707 | 6.47 |
| 4.16 | 7.18 | 4.85 | 0.15 | 4.242 | 7.388 | 7.90 | 5.41 | 4.47 | 0.13 | 5.161 | 8.470 | 6.86 |
| 4.42 | 6.78 | 5.04 | 0.16 | 4.142 | 7.287 | 8.30 | 5.19 | 4.63 | 0.14 | 4.948 | 8.247 | 7.22 |
| 4.68 | 6.42 | 5.19 | 0.16 | 4.019 | 7.163 | 8.66 | 4.98 | 4.76 | 0.14 | 4.727 | 8.016 | 7.56 |
| 4.95 | 6.11 | 5.28 | 0.17 | 3.864 | 7.006 | 8.97 | 4.79 | 4.85 | 0.15 | 4.488 | 7.767 | 7.86 |
| 5.21 | 5.83 | 5.32 | 0.17 | 3.677 | 6.815 | 9.24 | 4.63 | 4.90 | 0.15 | 4.230 | 7.498 | 8.13 |
| 5.47 | 5.60 | 5.30 | 0.18 | 3.464 | 6.598 | 9.46 | 4.49 | 4.90 | 0.16 | 3.957 | 7.214 | 8.37 |
| 5.74 | 5.39 | 5.24 | 0.18 | 3.236 | 6.365 | 9.66 | 4.38 | 4.87 | 0.16 | 3.677 | 6.922 | 8.59 |
| 6.00 | 5.22 | 5.14 | 0.18 | 3.003 | 6.125 | 9.84 | 4.28 | 4.81 | 0.16 | 3.398 | 6.630 | 8.80 |



b=19.00 deg Bc=0.27 m Disp=24.20 kp LCG=0.75 m

| ~CAHI~ | | | | | | | ~SAVITSKY~ | | | | | |
|-------------|------------|---------------|------------|-----------------------|-----------------------|------------|------------|---------------|------------|-----------------------|-----------------------|------------|
| Vs [m/s] | Lamda - | Trim [deg] | D/W [%] | Cr 10 ³ | Ct 10 ³ | R [lbs] | Lamda - | Trim [deg] | D/W [%] | Cr 10 ³ | Ct 10 ³ | R [lbs] |
| 1.00 | 17.91 | 2.39 | 0.05 | 14.206 | 17.654 | 2.77 | 8.17 | 2.21 | 0.04 | 28.695 | 32.708 | 2.34 |
| 1.26 | 16.27 | 2.46 | 0.06 | 10.106 | 13.467 | 3.06 | 8.10 | 2.26 | 0.05 | 18.617 | 22.454 | 2.54 |
| 1.53 | 15.02 | 2.54 | 0.06 | 7.735 | 11.030 | 3.38 | 8.00 | 2.33 | 0.05 | 13.268 | 16.975 | 2.77 |
| 1.79 | 14.00 | 2.62 | 0.07 | 6.237 | 9.479 | 3.72 | 7.89 | 2.40 | 0.06 | 10.099 | 13.705 | 3.03 |
| 2.05 | 13.14 | 2.72 | 0.08 | 5.234 | 8.433 | 4.08 | 7.77 | 2.48 | 0.06 | 8.076 | 11.600 | 3.32 |
| 2.32 | 12.38 | 2.82 | 0.08 | 4.534 | 7.698 | 4.47 | 7.62 | 2.58 | 0.07 | 6.714 | 10.172 | 3.64 |
| 2.58 | 11.70 | 2.94 | 0.09 | 4.033 | 7.169 | 4.87 | 7.46 | 2.68 | 0.07 | 5.762 | 9.165 | 3.98 |
| 2.84 | 11.07 | 3.07 | 0.10 | 3.669 | 6.783 | 5.29 | 7.28 | 2.80 | 0.08 | 5.078 | 8.436 | 4.34 |
| 3.11 | 10.48 | 3.21 | 0.11 | 3.405 | 6.500 | 5.73 | 7.08 | 2.93 | 0.09 | 4.578 | 7.898 | 4.71 |
| 3.37 | 9.92 | 3.37 | 0.12 | 3.213 | 6.294 | 6.17 | 6.87 | 3.07 | 0.10 | 4.207 | 7.496 | 5.10 |
| 3.63 | 9.39 | 3.55 | 0.12 | 3.075 | 6.146 | 6.62 | 6.65 | 3.22 | 0.10 | 3.928 | 7.192 | 5.51 |
| 3.89 | 8.88 | 3.73 | 0.13 | 2.977 | 6.040 | 7.07 | 6.43 | 3.38 | 0.11 | 3.713 | 6.957 | 5.91 |
| 4.16 | 8.40 | 3.91 | 0.14 | 2.904 | 5.962 | 7.51 | 6.19 | 3.54 | 0.12 | 3.543 | 6.770 | 6.31 |
| 4.42 | 7.95 | 4.09 | 0.15 | 2.843 | 5.898 | 7.94 | 5.97 | 3.69 | 0.13 | 3.398 | 6.612 | 6.71 |
| 4.68 | 7.54 | 4.25 | 0.16 | 2.782 | 5.835 | 8.35 | 5.75 | 3.83 | 0.13 | 3.264 | 6.467 | 7.08 |
| 4.95 | 7.16 | 4.38 | 0.16 | 2.710 | 5.762 | 8.72 | 5.54 | 3.94 | 0.14 | 3.131 | 6.323 | 7.44 |
| 5.21 | 6.82 | 4.47 | 0.17 | 2.622 | 5.672 | 9.06 | 5.38 | 4.03 | 0.15 | 2.975 | 6.155 | 7.80 |
| 5.47 | 6.52 | 4.52 | 0.18 | 2.515 | 5.563 | 9.37 | 5.20 | 4.09 | 0.15 | 2.829 | 6.000 | 8.11 |
| 5.74 | 6.26 | 4.53 | 0.18 | 2.392 | 5.437 | 9.65 | 5.05 | 4.12 | 0.16 | 2.674 | 5.835 | 8.41 |
| 6.00 | 6.04 | 4.50 | 0.19 | 2.257 | 5.298 | 9.91 | 4.92 | 4.12 | 0.16 | 2.512 | 5.663 | 8.68 |



Simulation Info:

28/06/2019 06:49:51 pm

Input Data:

Ship Speed: from Vs1=1.00 m/s to Vs2=6.00 m/s (for 20 different Ship Speed values)
Ship Displacement: Disp=7.27 kp
Breadth at Chine: Bc=0.21 m
Deadrise Angle: b=19.00 deg
LCG: from LCG1=0.63 m to LCG2=0.75 m (for 3 different LCG values)

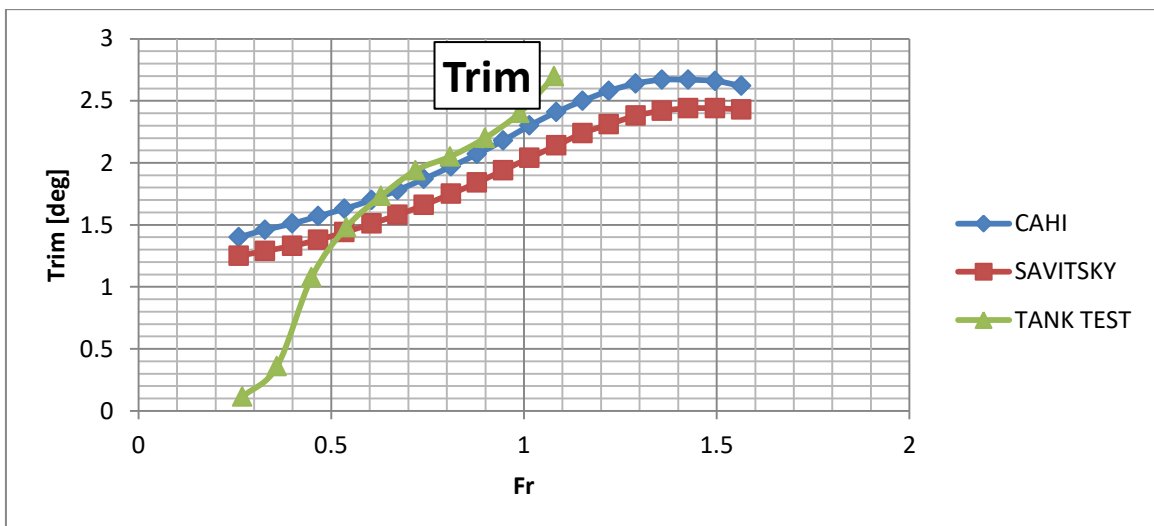
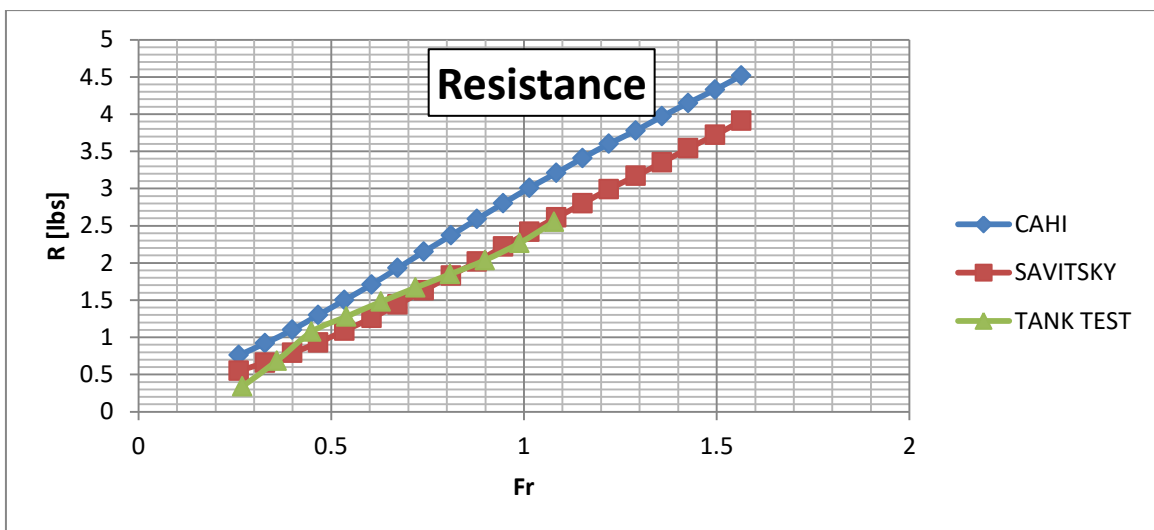
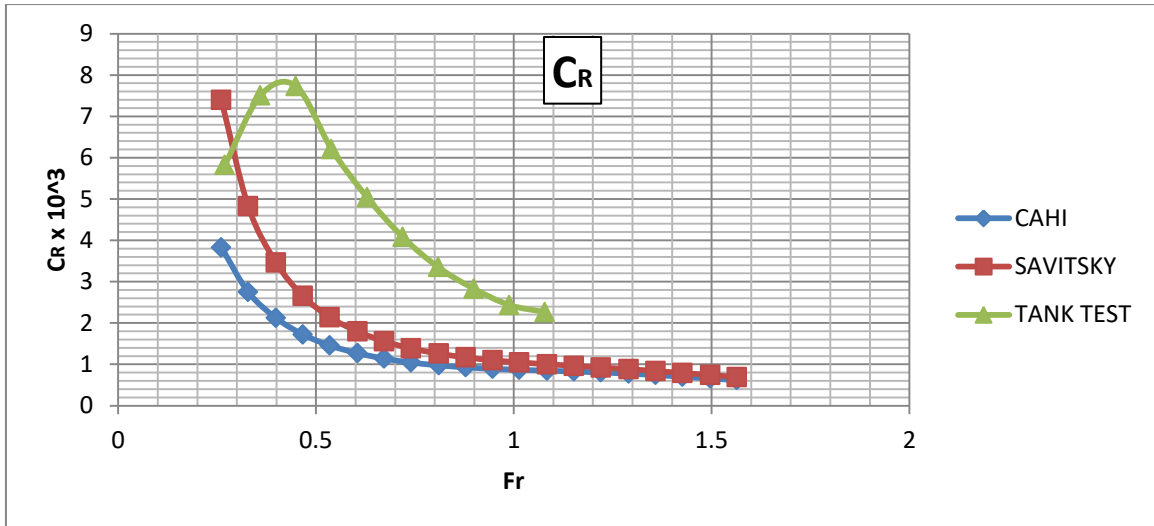
Fresh water properties at 18.00C:

Density=998.50 kg/m³
Viscosity=1.05456*10⁻⁶ m²/s

Results:

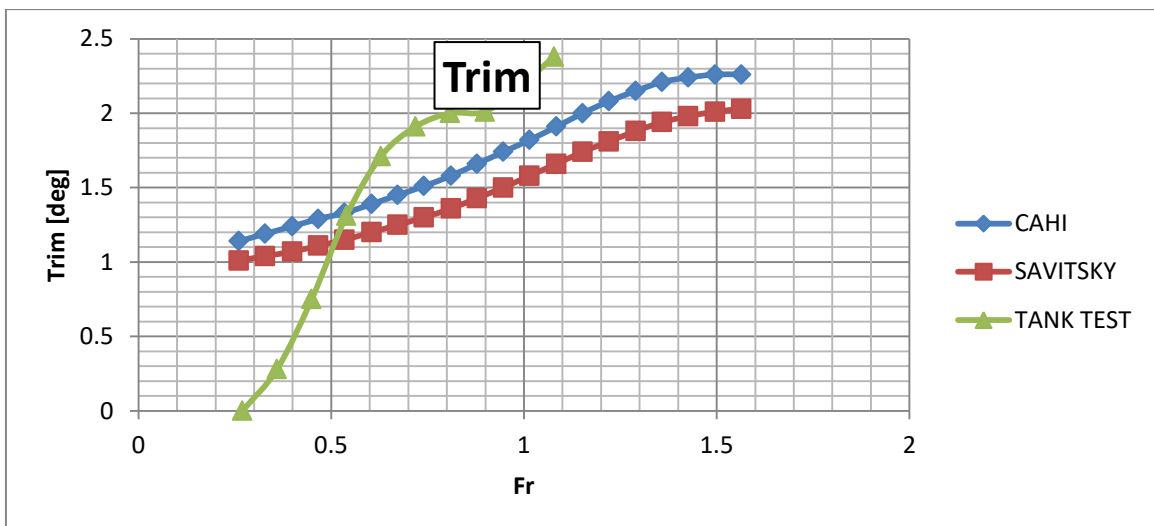
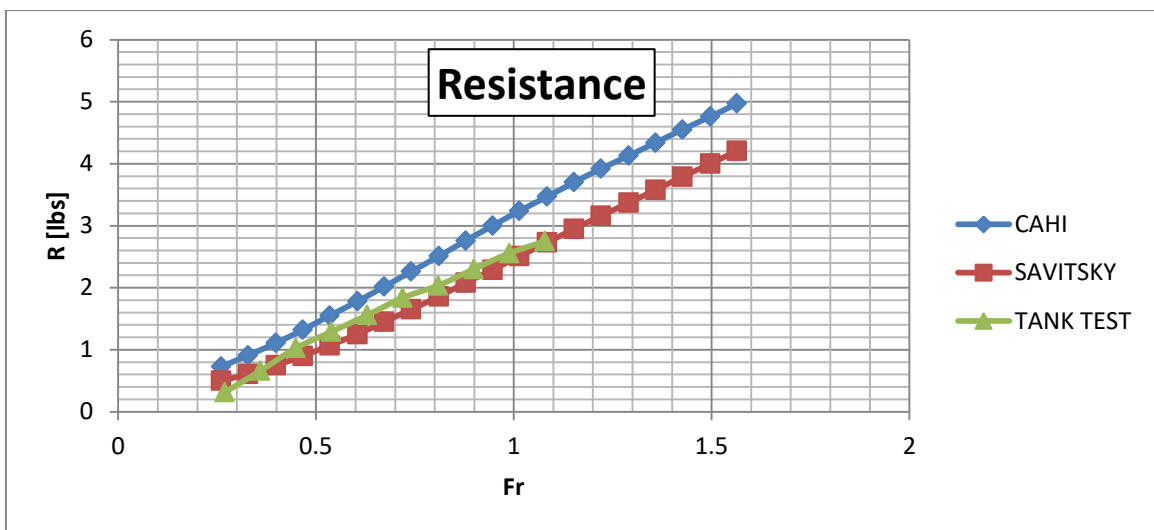
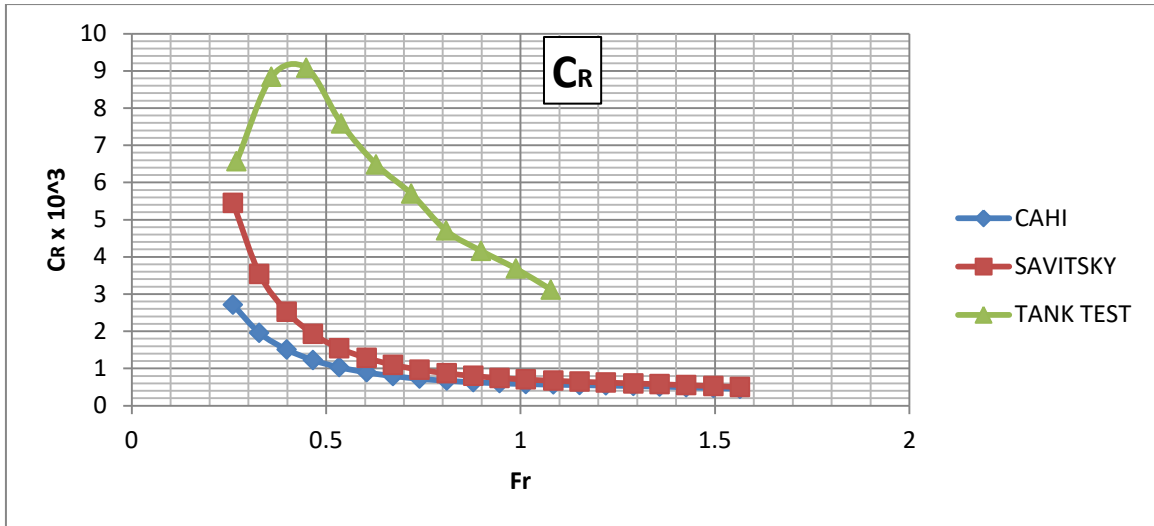
b=19.00 deg Bc=0.21 m Disp=7.27 kp LCG=0.63 m

| ~CAHI~ | | | | | | | ~SAVITSKY~ | | | | | |
|--------|-------|-------|------|-----------------|-----------------|-------|------------|-------|------|-----------------|-----------------|-------|
| Vs | Lamda | Trim | D/W | Cr | Ct | R | Lamda | Trim | D/W | Cr | Ct | R |
| [m/s] | - | [deg] | [%] | 10 ³ | 10 ³ | [lbs] | - | [deg] | [%] | 10 ³ | 10 ³ | [lbs] |
| 1.00 | 18.88 | 1.40 | 0.05 | 3.830 | 7.401 | 0.76 | 8.72 | 1.25 | 0.03 | 7.394 | 11.550 | 0.55 |
| 1.26 | 17.13 | 1.46 | 0.06 | 2.750 | 6.231 | 0.92 | 8.63 | 1.29 | 0.04 | 4.827 | 8.801 | 0.66 |
| 1.53 | 15.78 | 1.51 | 0.07 | 2.122 | 5.533 | 1.10 | 8.52 | 1.33 | 0.05 | 3.464 | 7.301 | 0.79 |
| 1.79 | 14.69 | 1.57 | 0.08 | 1.723 | 5.080 | 1.30 | 8.39 | 1.38 | 0.06 | 2.656 | 6.387 | 0.93 |
| 2.05 | 13.75 | 1.63 | 0.09 | 1.456 | 4.770 | 1.50 | 8.24 | 1.44 | 0.07 | 2.141 | 5.788 | 1.09 |
| 2.32 | 12.93 | 1.70 | 0.11 | 1.270 | 4.549 | 1.71 | 8.06 | 1.51 | 0.08 | 1.796 | 5.374 | 1.26 |
| 2.58 | 12.18 | 1.78 | 0.12 | 1.138 | 4.388 | 1.93 | 7.87 | 1.58 | 0.09 | 1.555 | 5.077 | 1.44 |
| 2.84 | 11.48 | 1.87 | 0.13 | 1.043 | 4.271 | 2.15 | 7.66 | 1.66 | 0.10 | 1.384 | 4.860 | 1.63 |
| 3.11 | 10.83 | 1.97 | 0.15 | 0.975 | 4.186 | 2.37 | 7.43 | 1.75 | 0.11 | 1.259 | 4.699 | 1.83 |
| 3.37 | 10.21 | 2.07 | 0.16 | 0.927 | 4.124 | 2.59 | 7.18 | 1.84 | 0.13 | 1.168 | 4.577 | 2.02 |
| 3.63 | 9.63 | 2.18 | 0.17 | 0.892 | 4.081 | 2.80 | 6.93 | 1.94 | 0.14 | 1.100 | 4.485 | 2.22 |
| 3.89 | 9.07 | 2.30 | 0.19 | 0.867 | 4.050 | 3.01 | 6.67 | 2.04 | 0.15 | 1.047 | 4.412 | 2.42 |
| 4.16 | 8.55 | 2.41 | 0.20 | 0.846 | 4.026 | 3.21 | 6.41 | 2.14 | 0.16 | 1.003 | 4.353 | 2.61 |
| 4.42 | 8.08 | 2.50 | 0.21 | 0.826 | 4.003 | 3.41 | 6.16 | 2.24 | 0.17 | 0.964 | 4.300 | 2.80 |
| 4.68 | 7.65 | 2.58 | 0.22 | 0.803 | 3.978 | 3.60 | 5.93 | 2.31 | 0.19 | 0.924 | 4.249 | 2.99 |
| 4.95 | 7.27 | 2.64 | 0.24 | 0.774 | 3.948 | 3.78 | 5.71 | 2.38 | 0.20 | 0.883 | 4.197 | 3.17 |
| 5.21 | 6.94 | 2.67 | 0.25 | 0.740 | 3.911 | 3.97 | 5.52 | 2.42 | 0.21 | 0.838 | 4.142 | 3.35 |
| 5.47 | 6.65 | 2.67 | 0.26 | 0.701 | 3.868 | 4.15 | 5.35 | 2.44 | 0.22 | 0.791 | 4.083 | 3.54 |
| 5.74 | 6.40 | 2.66 | 0.27 | 0.659 | 3.821 | 4.33 | 5.20 | 2.44 | 0.23 | 0.742 | 4.023 | 3.72 |
| 6.00 | 6.19 | 2.62 | 0.28 | 0.616 | 3.772 | 4.52 | 5.08 | 2.43 | 0.24 | 0.692 | 3.961 | 3.91 |



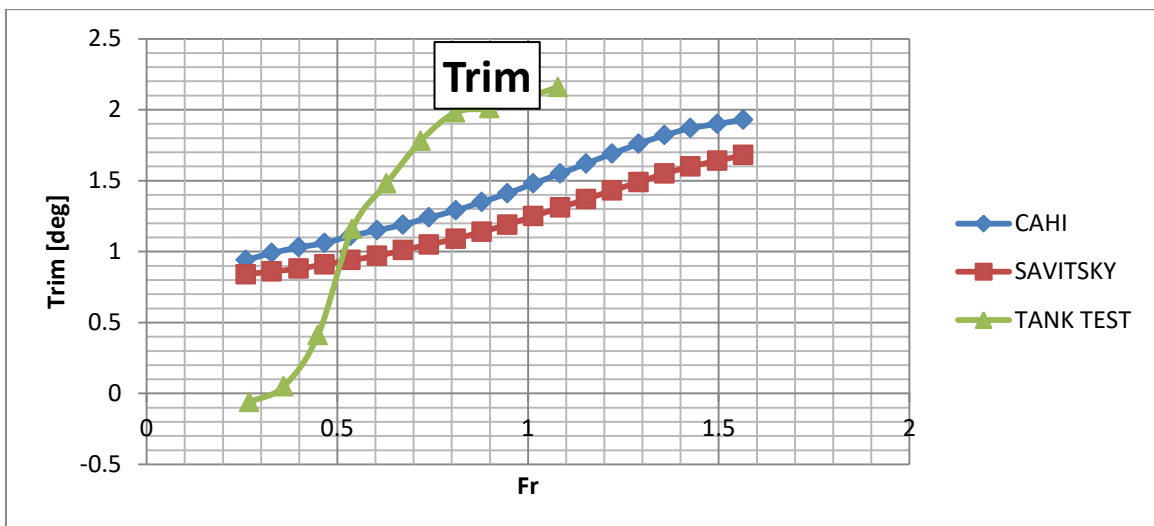
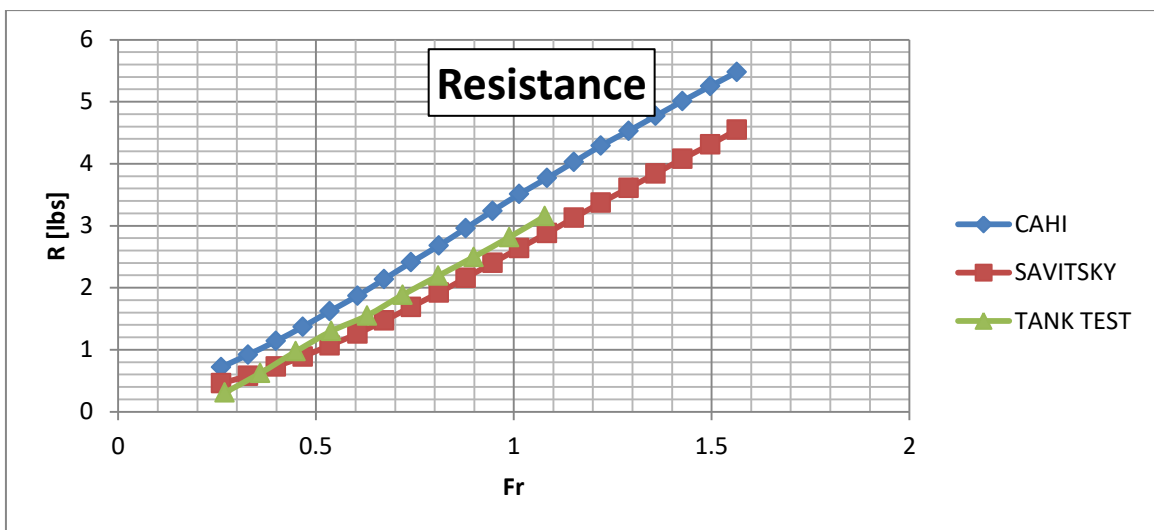
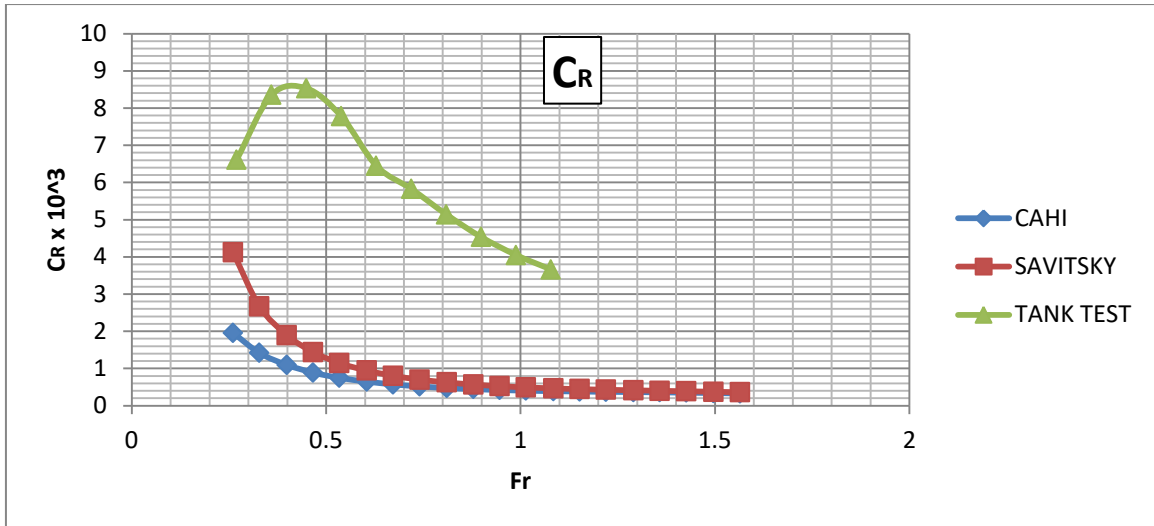
b=19.00 deg Bc=0.21 m Disp=7.27 kp LCG=0.69 m

| ~CAHI~ | | | | | | | ~SAVITSKY~ | | | | | |
|-------------|------------|---------------|------------|-----------------------|-----------------------|------------|------------|---------------|------------|-----------------------|-----------------------|------------|
| Vs [m/s] | Lamda - | Trim [deg] | D/W [%] | Cr 10 ³ | Ct 10 ³ | R [lbs] | Lamda - | Trim [deg] | D/W [%] | Cr 10 ³ | Ct 10 ³ | R [lbs] |
| 1.00 | 21.74 | 1.14 | 0.05 | 2.712 | 6.189 | 0.73 | 9.57 | 1.01 | 0.03 | 5.446 | 9.523 | 0.50 |
| 1.26 | 19.71 | 1.19 | 0.06 | 1.954 | 5.344 | 0.91 | 9.49 | 1.04 | 0.04 | 3.540 | 7.438 | 0.61 |
| 1.53 | 18.17 | 1.24 | 0.07 | 1.508 | 4.832 | 1.11 | 9.39 | 1.07 | 0.05 | 2.526 | 6.290 | 0.75 |
| 1.79 | 16.92 | 1.29 | 0.08 | 1.223 | 4.494 | 1.32 | 9.28 | 1.11 | 0.06 | 1.924 | 5.583 | 0.90 |
| 2.05 | 15.87 | 1.33 | 0.10 | 1.029 | 4.258 | 1.55 | 9.14 | 1.15 | 0.07 | 1.539 | 5.114 | 1.07 |
| 2.32 | 14.95 | 1.39 | 0.11 | 0.893 | 4.086 | 1.78 | 8.98 | 1.20 | 0.08 | 1.279 | 4.785 | 1.25 |
| 2.58 | 14.12 | 1.45 | 0.13 | 0.795 | 3.959 | 2.02 | 8.80 | 1.25 | 0.09 | 1.097 | 4.546 | 1.45 |
| 2.84 | 13.36 | 1.51 | 0.14 | 0.722 | 3.864 | 2.26 | 8.61 | 1.30 | 0.10 | 0.965 | 4.367 | 1.65 |
| 3.11 | 12.65 | 1.58 | 0.16 | 0.669 | 3.791 | 2.51 | 8.39 | 1.36 | 0.12 | 0.869 | 4.231 | 1.86 |
| 3.37 | 11.98 | 1.66 | 0.17 | 0.630 | 3.737 | 2.76 | 8.16 | 1.43 | 0.13 | 0.797 | 4.126 | 2.08 |
| 3.63 | 11.34 | 1.74 | 0.19 | 0.601 | 3.697 | 3.00 | 7.92 | 1.50 | 0.14 | 0.743 | 4.045 | 2.29 |
| 3.89 | 10.74 | 1.82 | 0.20 | 0.580 | 3.668 | 3.24 | 7.67 | 1.58 | 0.16 | 0.702 | 3.981 | 2.51 |
| 4.16 | 10.17 | 1.91 | 0.22 | 0.564 | 3.647 | 3.47 | 7.41 | 1.66 | 0.17 | 0.669 | 3.931 | 2.73 |
| 4.42 | 9.63 | 2.00 | 0.23 | 0.552 | 3.631 | 3.70 | 7.15 | 1.74 | 0.18 | 0.643 | 3.889 | 2.95 |
| 4.68 | 9.12 | 2.08 | 0.24 | 0.540 | 3.617 | 3.92 | 6.89 | 1.81 | 0.20 | 0.620 | 3.854 | 3.16 |
| 4.95 | 8.67 | 2.15 | 0.26 | 0.527 | 3.603 | 4.13 | 6.65 | 1.88 | 0.21 | 0.598 | 3.821 | 3.37 |
| 5.21 | 8.25 | 2.21 | 0.27 | 0.512 | 3.586 | 4.34 | 6.42 | 1.94 | 0.22 | 0.575 | 3.789 | 3.58 |
| 5.47 | 7.88 | 2.24 | 0.28 | 0.494 | 3.566 | 4.55 | 6.21 | 1.98 | 0.24 | 0.551 | 3.755 | 3.79 |
| 5.74 | 7.56 | 2.26 | 0.30 | 0.473 | 3.542 | 4.76 | 6.03 | 2.01 | 0.25 | 0.526 | 3.721 | 4.00 |
| 6.00 | 7.28 | 2.26 | 0.31 | 0.450 | 3.516 | 4.97 | 5.86 | 2.03 | 0.26 | 0.499 | 3.684 | 4.21 |



b=19.00 deg Bc=0.21 m Disp=7.27 kp LCG=0.75 m

| ~CAHI~ | | | | | | | ~SAVITSKY~ | | | | | |
|-------------|------------|---------------|------------|-----------------------|-----------------------|------------|------------|---------------|------------|-----------------------|-----------------------|------------|
| Vs [m/s] | Lamda - | Trim [deg] | D/W [%] | Cr 10 ³ | Ct 10 ³ | R [lbs] | Lamda - | Trim [deg] | D/W [%] | Cr 10 ³ | Ct 10 ³ | R [lbs] |
| 1.00 | 24.77 | 0.94 | 0.04 | 1.956 | 5.349 | 0.72 | 10.43 | 0.84 | 0.03 | 4.120 | 8.128 | 0.46 |
| 1.26 | 22.44 | 0.99 | 0.06 | 1.416 | 4.727 | 0.92 | 10.36 | 0.86 | 0.04 | 2.669 | 6.501 | 0.58 |
| 1.53 | 20.69 | 1.03 | 0.07 | 1.096 | 4.342 | 1.14 | 10.26 | 0.88 | 0.05 | 1.897 | 5.596 | 0.73 |
| 1.79 | 19.28 | 1.06 | 0.09 | 0.888 | 4.083 | 1.37 | 10.15 | 0.91 | 0.06 | 1.438 | 5.033 | 0.89 |
| 2.05 | 18.10 | 1.11 | 0.10 | 0.747 | 3.899 | 1.62 | 10.03 | 0.94 | 0.07 | 1.143 | 4.655 | 1.07 |
| 2.32 | 17.07 | 1.15 | 0.12 | 0.646 | 3.764 | 1.87 | 9.88 | 0.97 | 0.08 | 0.943 | 4.387 | 1.26 |
| 2.58 | 16.16 | 1.19 | 0.13 | 0.572 | 3.662 | 2.14 | 9.72 | 1.01 | 0.09 | 0.803 | 4.188 | 1.47 |
| 2.84 | 15.32 | 1.24 | 0.15 | 0.517 | 3.583 | 2.41 | 9.54 | 1.05 | 0.11 | 0.701 | 4.038 | 1.69 |
| 3.11 | 14.55 | 1.29 | 0.17 | 0.476 | 3.522 | 2.68 | 9.34 | 1.09 | 0.12 | 0.625 | 3.921 | 1.92 |
| 3.37 | 13.83 | 1.35 | 0.18 | 0.445 | 3.474 | 2.96 | 9.13 | 1.14 | 0.13 | 0.568 | 3.829 | 2.16 |
| 3.63 | 13.14 | 1.41 | 0.20 | 0.421 | 3.438 | 3.24 | 8.90 | 1.19 | 0.15 | 0.524 | 3.757 | 2.40 |
| 3.89 | 12.49 | 1.48 | 0.22 | 0.403 | 3.411 | 3.51 | 8.66 | 1.25 | 0.16 | 0.491 | 3.699 | 2.64 |
| 4.16 | 11.87 | 1.55 | 0.24 | 0.390 | 3.390 | 3.77 | 8.41 | 1.31 | 0.18 | 0.465 | 3.652 | 2.88 |
| 4.42 | 11.28 | 1.62 | 0.25 | 0.380 | 3.375 | 4.03 | 8.15 | 1.37 | 0.20 | 0.444 | 3.615 | 3.13 |
| 4.68 | 10.72 | 1.69 | 0.27 | 0.372 | 3.364 | 4.29 | 7.89 | 1.43 | 0.21 | 0.428 | 3.584 | 3.37 |
| 4.95 | 10.19 | 1.76 | 0.28 | 0.365 | 3.354 | 4.53 | 7.63 | 1.49 | 0.23 | 0.413 | 3.557 | 3.61 |
| 5.21 | 9.71 | 1.82 | 0.30 | 0.358 | 3.345 | 4.77 | 7.38 | 1.55 | 0.24 | 0.400 | 3.534 | 3.84 |
| 5.47 | 9.26 | 1.87 | 0.31 | 0.349 | 3.336 | 5.01 | 7.14 | 1.60 | 0.25 | 0.387 | 3.512 | 4.08 |
| 5.74 | 8.86 | 1.90 | 0.33 | 0.339 | 3.324 | 5.25 | 6.92 | 1.64 | 0.27 | 0.374 | 3.490 | 4.31 |
| 6.00 | 8.51 | 1.93 | 0.34 | 0.327 | 3.311 | 5.48 | 6.72 | 1.68 | 0.28 | 0.359 | 3.467 | 4.55 |



Simulation Info:

 28/06/2019 06:50:06 pm

Input Data:

 Ship Speed: from Vs1=1.00 m/s to Vs2=6.00 m/s (for 20 different Ship Speed values)

Ship Displacement: Disp=10.44 kp

Breadth at Chine: Bc=0.21 m

Deadrise Angle: b=19.00 deg

LCG: from LCG1=0.63 m to LCG2=0.75 m (for 3 different LCG values)

Fresh water properties at 18.00C:

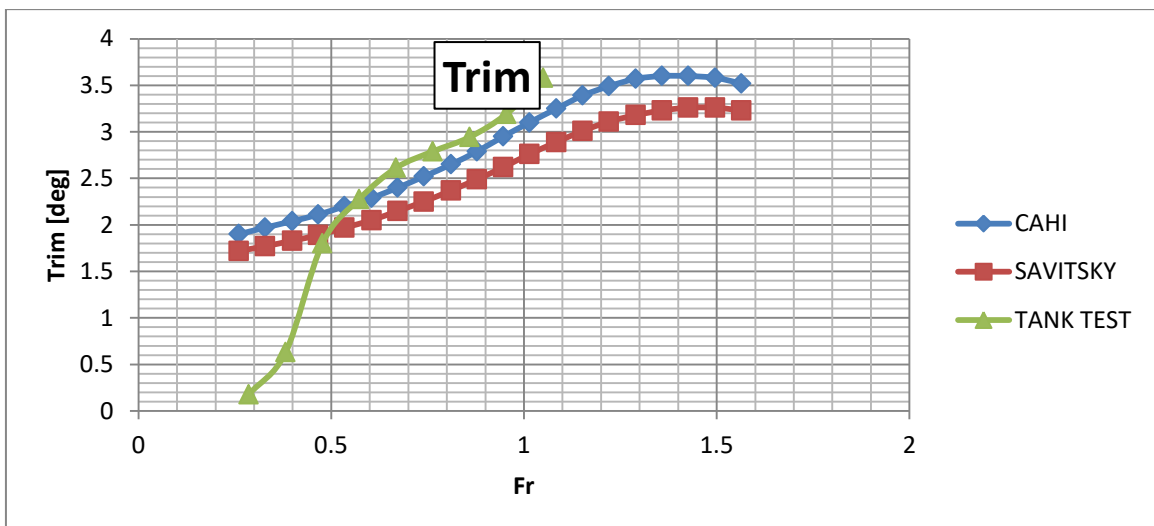
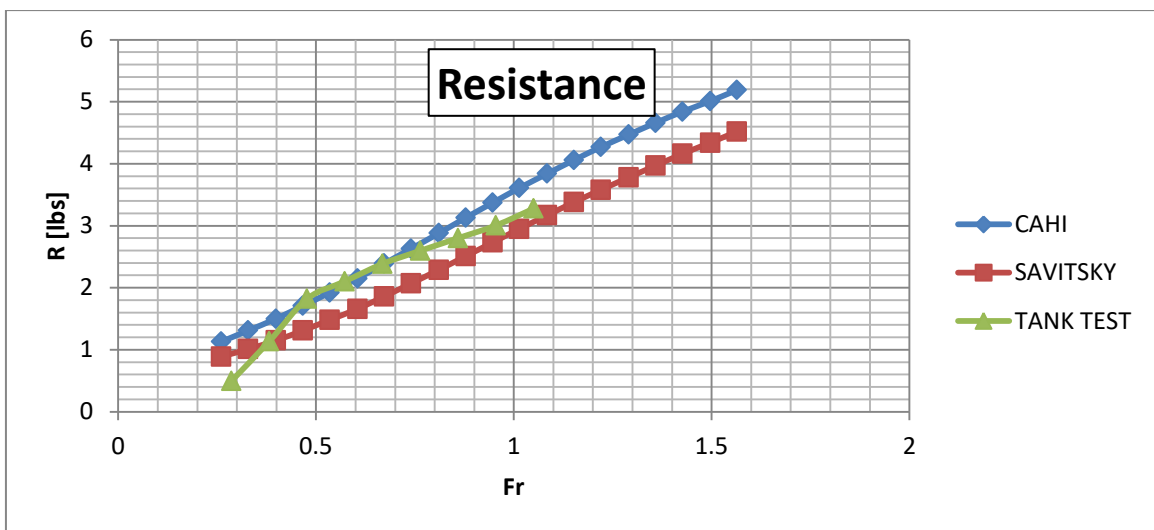
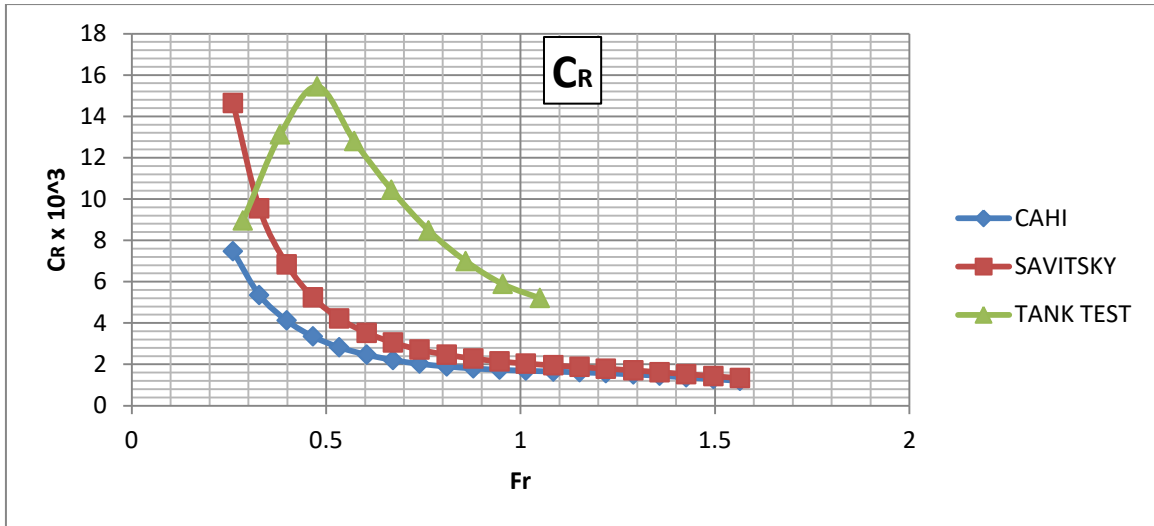
Density=998.50 kg/m³

Viscosity=1.05456*10⁻⁶ m²/s

Results:

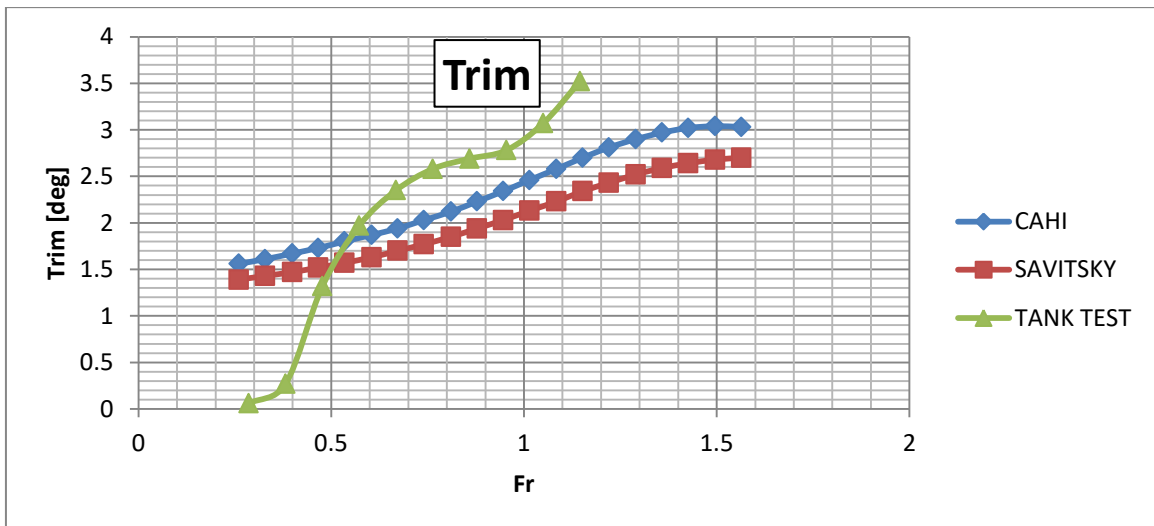
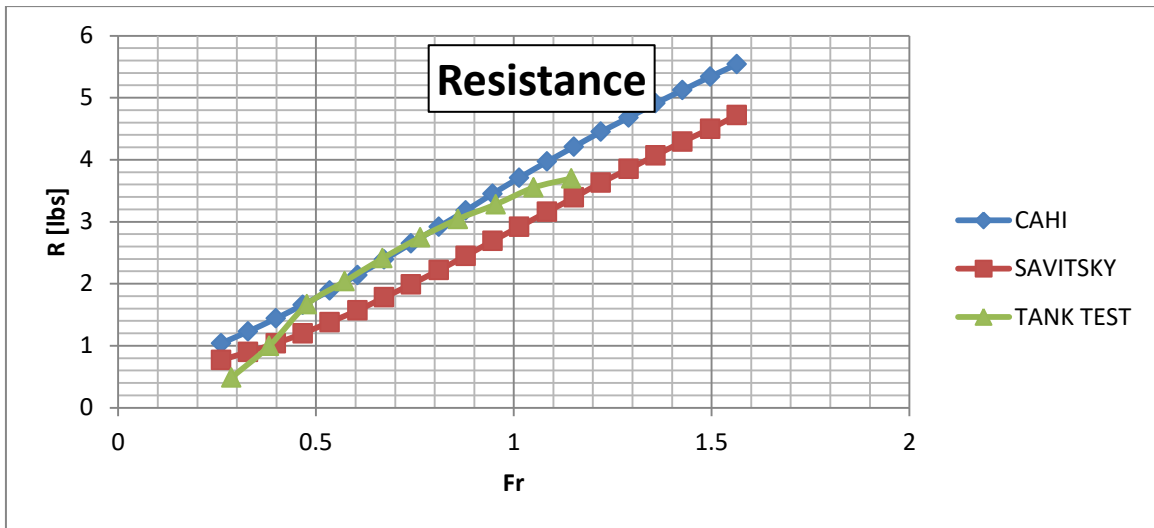
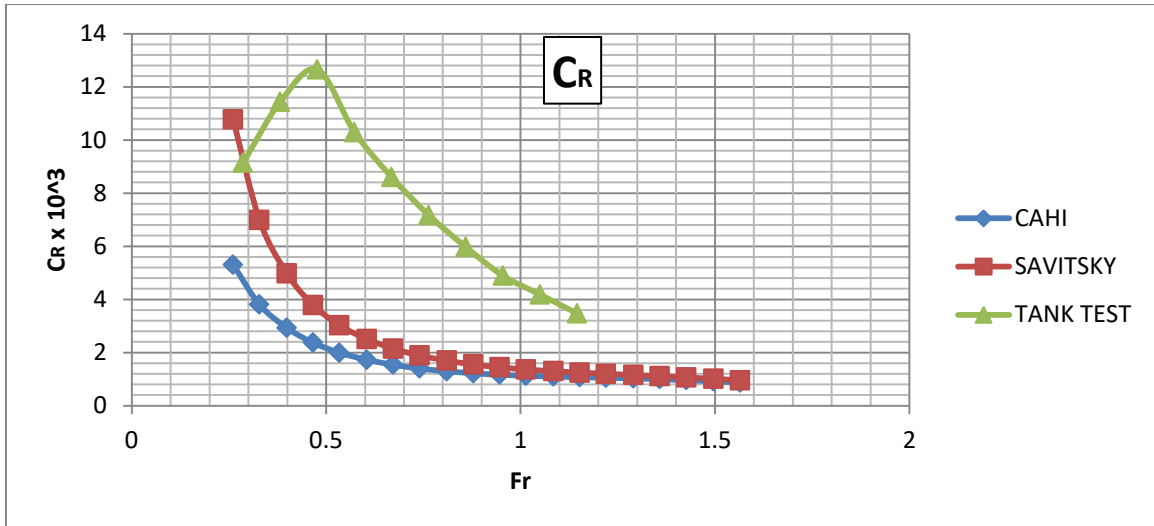
 b=19.00 deg Bc=0.21 m Disp=10.44 kp LCG=0.63 m

| ~CAHI~ | | | | | | | ~SAVITSKY~ | | | | | |
|--------|-------|-------|------|-----------------|-----------------|-------|------------|-------|------|-----------------|-----------------|-------|
| Vs | Lamda | Trim | D/W | Cr | Ct | R | Lamda | Trim | D/W | Cr | Ct | R |
| [m/s] | - | [deg] | [%] | 10 ³ | 10 ³ | [lbs] | - | [deg] | [%] | 10 ³ | 10 ³ | [lbs] |
| 1.00 | 18.88 | 1.90 | 0.05 | 7.466 | 11.037 | 1.13 | 8.72 | 1.72 | 0.04 | 14.636 | 18.793 | 0.89 |
| 1.26 | 17.13 | 1.97 | 0.06 | 5.344 | 8.825 | 1.31 | 8.63 | 1.77 | 0.04 | 9.537 | 13.511 | 1.01 |
| 1.53 | 15.78 | 2.04 | 0.07 | 4.115 | 7.527 | 1.50 | 8.52 | 1.83 | 0.05 | 6.831 | 10.668 | 1.15 |
| 1.79 | 14.69 | 2.11 | 0.07 | 3.339 | 6.696 | 1.71 | 8.39 | 1.89 | 0.06 | 5.229 | 8.960 | 1.31 |
| 2.05 | 13.75 | 2.20 | 0.08 | 2.820 | 6.134 | 1.92 | 8.24 | 1.97 | 0.06 | 4.207 | 7.855 | 1.48 |
| 2.32 | 12.93 | 2.29 | 0.09 | 2.461 | 5.740 | 2.15 | 8.06 | 2.05 | 0.07 | 3.522 | 7.101 | 1.66 |
| 2.58 | 12.18 | 2.40 | 0.10 | 2.206 | 5.457 | 2.39 | 7.87 | 2.15 | 0.08 | 3.045 | 6.568 | 1.86 |
| 2.84 | 11.48 | 2.52 | 0.11 | 2.023 | 5.252 | 2.63 | 7.66 | 2.25 | 0.09 | 2.705 | 6.183 | 2.07 |
| 3.11 | 10.83 | 2.65 | 0.13 | 1.893 | 5.105 | 2.88 | 7.43 | 2.37 | 0.10 | 2.459 | 5.899 | 2.29 |
| 3.37 | 10.21 | 2.79 | 0.14 | 1.801 | 5.000 | 3.13 | 7.18 | 2.49 | 0.11 | 2.277 | 5.687 | 2.51 |
| 3.63 | 9.63 | 2.95 | 0.15 | 1.736 | 4.926 | 3.37 | 6.93 | 2.62 | 0.12 | 2.141 | 5.527 | 2.73 |
| 3.89 | 9.07 | 3.10 | 0.16 | 1.689 | 4.873 | 3.61 | 6.67 | 2.76 | 0.13 | 2.035 | 5.402 | 2.95 |
| 4.16 | 8.55 | 3.25 | 0.17 | 1.650 | 4.831 | 3.84 | 6.41 | 2.89 | 0.14 | 1.948 | 5.298 | 3.17 |
| 4.42 | 8.08 | 3.39 | 0.18 | 1.612 | 4.790 | 4.06 | 6.16 | 3.01 | 0.15 | 1.868 | 5.206 | 3.38 |
| 4.68 | 7.65 | 3.49 | 0.19 | 1.567 | 4.743 | 4.27 | 5.93 | 3.11 | 0.16 | 1.789 | 5.115 | 3.58 |
| 4.95 | 7.27 | 3.57 | 0.19 | 1.510 | 4.686 | 4.47 | 5.71 | 3.18 | 0.16 | 1.706 | 5.022 | 3.78 |
| 5.21 | 6.94 | 3.60 | 0.20 | 1.443 | 4.615 | 4.66 | 5.52 | 3.23 | 0.17 | 1.618 | 4.922 | 3.97 |
| 5.47 | 6.65 | 3.60 | 0.21 | 1.366 | 4.534 | 4.84 | 5.35 | 3.26 | 0.18 | 1.524 | 4.818 | 4.16 |
| 5.74 | 6.40 | 3.58 | 0.22 | 1.282 | 4.446 | 5.01 | 5.20 | 3.26 | 0.19 | 1.427 | 4.709 | 4.34 |
| 6.00 | 6.19 | 3.52 | 0.23 | 1.195 | 4.353 | 5.19 | 5.08 | 3.23 | 0.20 | 1.329 | 4.599 | 4.52 |



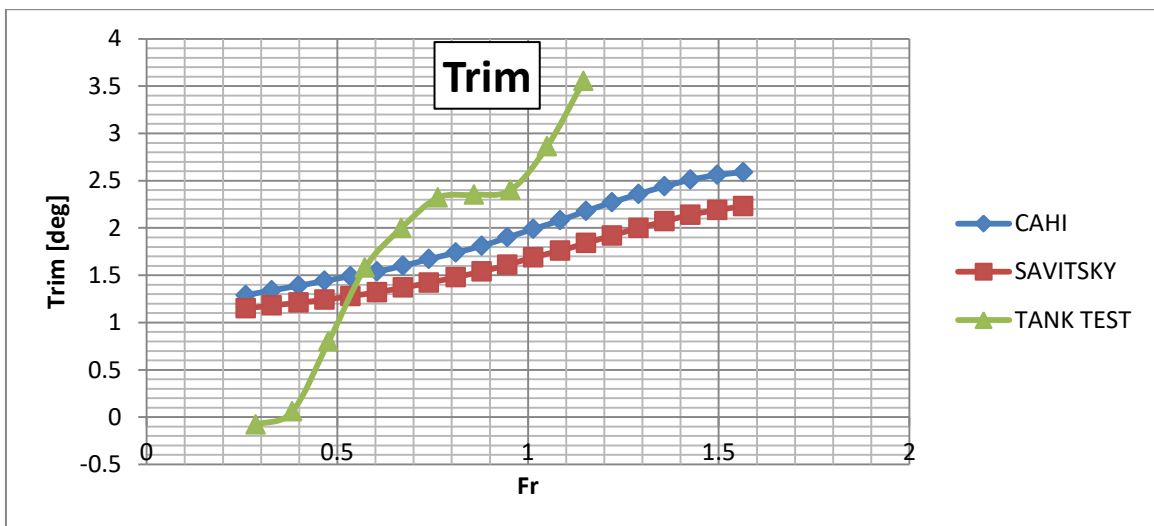
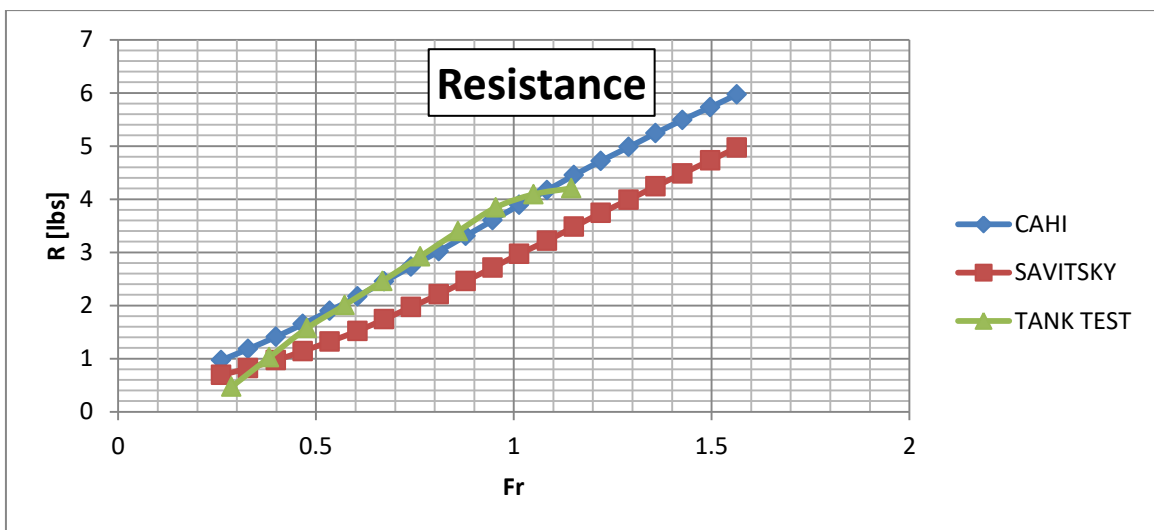
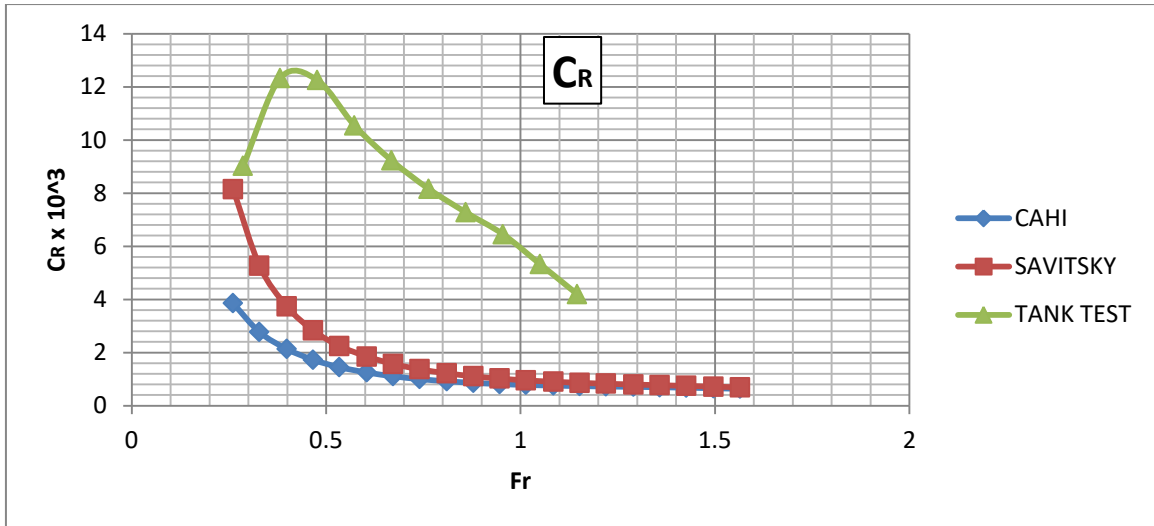
b=19.00 deg Bc=0.21 m Disp=10.44 kp LCG=0.69 m

| ~CAHI~ | | | | | | | ~SAVITSKY~ | | | | | |
|-------------|------------|---------------|------------|-----------------------|-----------------------|------------|------------|---------------|------------|-----------------------|-----------------------|------------|
| Vs [m/s] | Lamda - | Trim [deg] | D/W [%] | Cr 10 ³ | Ct 10 ³ | R [lbs] | Lamda - | Trim [deg] | D/W [%] | Cr 10 ³ | Ct 10 ³ | R [lbs] |
| 1.00 | 21.74 | 1.56 | 0.05 | 5.306 | 8.783 | 1.04 | 9.57 | 1.39 | 0.03 | 10.774 | 14.853 | 0.77 |
| 1.26 | 19.71 | 1.61 | 0.05 | 3.804 | 7.195 | 1.23 | 9.49 | 1.43 | 0.04 | 6.990 | 10.888 | 0.90 |
| 1.53 | 18.17 | 1.67 | 0.06 | 2.927 | 6.251 | 1.44 | 9.39 | 1.47 | 0.05 | 4.979 | 8.743 | 1.04 |
| 1.79 | 16.92 | 1.73 | 0.07 | 2.368 | 5.640 | 1.66 | 9.28 | 1.52 | 0.05 | 3.786 | 7.445 | 1.20 |
| 2.05 | 15.87 | 1.80 | 0.08 | 1.992 | 5.220 | 1.89 | 9.14 | 1.57 | 0.06 | 3.022 | 6.598 | 1.38 |
| 2.32 | 14.95 | 1.87 | 0.09 | 1.727 | 4.921 | 2.14 | 8.98 | 1.63 | 0.07 | 2.507 | 6.014 | 1.57 |
| 2.58 | 14.12 | 1.94 | 0.10 | 1.537 | 4.702 | 2.39 | 8.80 | 1.70 | 0.08 | 2.146 | 5.596 | 1.78 |
| 2.84 | 13.36 | 2.03 | 0.12 | 1.397 | 4.539 | 2.65 | 8.61 | 1.77 | 0.09 | 1.886 | 5.288 | 1.99 |
| 3.11 | 12.65 | 2.12 | 0.13 | 1.295 | 4.417 | 2.92 | 8.39 | 1.85 | 0.10 | 1.695 | 5.057 | 2.22 |
| 3.37 | 11.98 | 2.23 | 0.14 | 1.219 | 4.327 | 3.18 | 8.16 | 1.94 | 0.11 | 1.552 | 4.882 | 2.45 |
| 3.63 | 11.34 | 2.34 | 0.15 | 1.165 | 4.262 | 3.45 | 7.92 | 2.03 | 0.12 | 1.444 | 4.747 | 2.69 |
| 3.89 | 10.74 | 2.46 | 0.16 | 1.125 | 4.214 | 3.71 | 7.67 | 2.13 | 0.13 | 1.362 | 4.642 | 2.92 |
| 4.16 | 10.17 | 2.58 | 0.17 | 1.095 | 4.179 | 3.97 | 7.41 | 2.23 | 0.14 | 1.297 | 4.559 | 3.16 |
| 4.42 | 9.63 | 2.70 | 0.18 | 1.072 | 4.152 | 4.21 | 7.15 | 2.34 | 0.15 | 1.245 | 4.492 | 3.39 |
| 4.68 | 9.12 | 2.81 | 0.19 | 1.049 | 4.127 | 4.45 | 6.89 | 2.43 | 0.16 | 1.198 | 4.433 | 3.63 |
| 4.95 | 8.67 | 2.90 | 0.20 | 1.025 | 4.101 | 4.68 | 6.65 | 2.52 | 0.17 | 1.154 | 4.378 | 3.85 |
| 5.21 | 8.25 | 2.97 | 0.21 | 0.995 | 4.070 | 4.91 | 6.42 | 2.59 | 0.18 | 1.109 | 4.323 | 4.07 |
| 5.47 | 7.88 | 3.02 | 0.22 | 0.959 | 4.032 | 5.12 | 6.21 | 2.64 | 0.19 | 1.061 | 4.266 | 4.29 |
| 5.74 | 7.56 | 3.04 | 0.23 | 0.917 | 3.988 | 5.34 | 6.03 | 2.68 | 0.20 | 1.011 | 4.206 | 4.50 |
| 6.00 | 7.28 | 3.03 | 0.24 | 0.871 | 3.938 | 5.54 | 5.86 | 2.70 | 0.20 | 0.957 | 4.143 | 4.72 |



b=19.00 deg Bc=0.21 m Disp=10.44 kp LCG=0.75 m

| ~CAHI~ | | | | | | | ~SAVITSKY~ | | | | | |
|-------------|------------|---------------|------------|-----------------------|-----------------------|------------|------------|---------------|------------|-----------------------|-----------------------|------------|
| Vs [m/s] | Lamda - | Trim [deg] | D/W [%] | Cr 10 ³ | Ct 10 ³ | R [lbs] | Lamda - | Trim [deg] | D/W [%] | Cr 10 ³ | Ct 10 ³ | R [lbs] |
| 1.00 | 24.77 | 1.29 | 0.04 | 3.851 | 7.245 | 0.97 | 10.43 | 1.15 | 0.03 | 8.148 | 12.157 | 0.69 |
| 1.26 | 22.44 | 1.34 | 0.05 | 2.769 | 6.080 | 1.18 | 10.36 | 1.18 | 0.04 | 5.268 | 9.100 | 0.82 |
| 1.53 | 20.69 | 1.39 | 0.06 | 2.132 | 5.379 | 1.41 | 10.26 | 1.21 | 0.04 | 3.737 | 7.437 | 0.97 |
| 1.79 | 19.28 | 1.44 | 0.07 | 1.724 | 4.919 | 1.65 | 10.15 | 1.24 | 0.05 | 2.827 | 6.423 | 1.14 |
| 2.05 | 18.10 | 1.49 | 0.08 | 1.446 | 4.599 | 1.90 | 10.03 | 1.28 | 0.06 | 2.243 | 5.756 | 1.32 |
| 2.32 | 17.07 | 1.54 | 0.09 | 1.249 | 4.367 | 2.17 | 9.88 | 1.32 | 0.07 | 1.849 | 5.292 | 1.52 |
| 2.58 | 16.16 | 1.60 | 0.11 | 1.105 | 4.195 | 2.45 | 9.72 | 1.37 | 0.08 | 1.570 | 4.956 | 1.74 |
| 2.84 | 15.32 | 1.67 | 0.12 | 0.999 | 4.065 | 2.73 | 9.54 | 1.42 | 0.09 | 1.368 | 4.706 | 1.97 |
| 3.11 | 14.55 | 1.74 | 0.13 | 0.919 | 3.965 | 3.02 | 9.34 | 1.48 | 0.10 | 1.218 | 4.515 | 2.21 |
| 3.37 | 13.83 | 1.81 | 0.14 | 0.858 | 3.889 | 3.31 | 9.13 | 1.54 | 0.11 | 1.105 | 4.367 | 2.46 |
| 3.63 | 13.14 | 1.90 | 0.16 | 0.813 | 3.831 | 3.60 | 8.90 | 1.61 | 0.12 | 1.019 | 4.251 | 2.71 |
| 3.89 | 12.49 | 1.99 | 0.17 | 0.780 | 3.787 | 3.89 | 8.66 | 1.69 | 0.13 | 0.952 | 4.160 | 2.97 |
| 4.16 | 11.87 | 2.08 | 0.18 | 0.755 | 3.755 | 4.17 | 8.41 | 1.76 | 0.14 | 0.900 | 4.088 | 3.22 |
| 4.42 | 11.28 | 2.18 | 0.19 | 0.736 | 3.731 | 4.45 | 8.15 | 1.84 | 0.15 | 0.859 | 4.030 | 3.48 |
| 4.68 | 10.72 | 2.27 | 0.21 | 0.721 | 3.712 | 4.72 | 7.89 | 1.92 | 0.16 | 0.826 | 3.982 | 3.74 |
| 4.95 | 10.19 | 2.36 | 0.22 | 0.707 | 3.697 | 4.98 | 7.63 | 2.00 | 0.17 | 0.797 | 3.942 | 3.99 |
| 5.21 | 9.71 | 2.44 | 0.23 | 0.693 | 3.681 | 5.24 | 7.38 | 2.07 | 0.18 | 0.770 | 3.905 | 4.24 |
| 5.47 | 9.26 | 2.51 | 0.24 | 0.676 | 3.663 | 5.49 | 7.14 | 2.14 | 0.19 | 0.744 | 3.870 | 4.48 |
| 5.74 | 8.86 | 2.56 | 0.25 | 0.656 | 3.642 | 5.73 | 6.92 | 2.19 | 0.21 | 0.717 | 3.834 | 4.73 |
| 6.00 | 8.51 | 2.59 | 0.26 | 0.633 | 3.617 | 5.97 | 6.72 | 2.23 | 0.22 | 0.689 | 3.797 | 4.97 |



Simulation Info:

 28/06/2019 06:50:29 pm

Input Data:

 Ship Speed: from Vs1=1.00 m/s to Vs2=6.00 m/s (for 20 different Ship Speed values)

Ship Displacement: Disp=16.84 kp

Breadth at Chine: Bc=0.21 m

Deadrise Angle: b=19.00 deg

LCG: from LCG1=0.63 m to LCG2=0.75 m (for 3 different LCG values)

Fresh water properties at 18.00C:

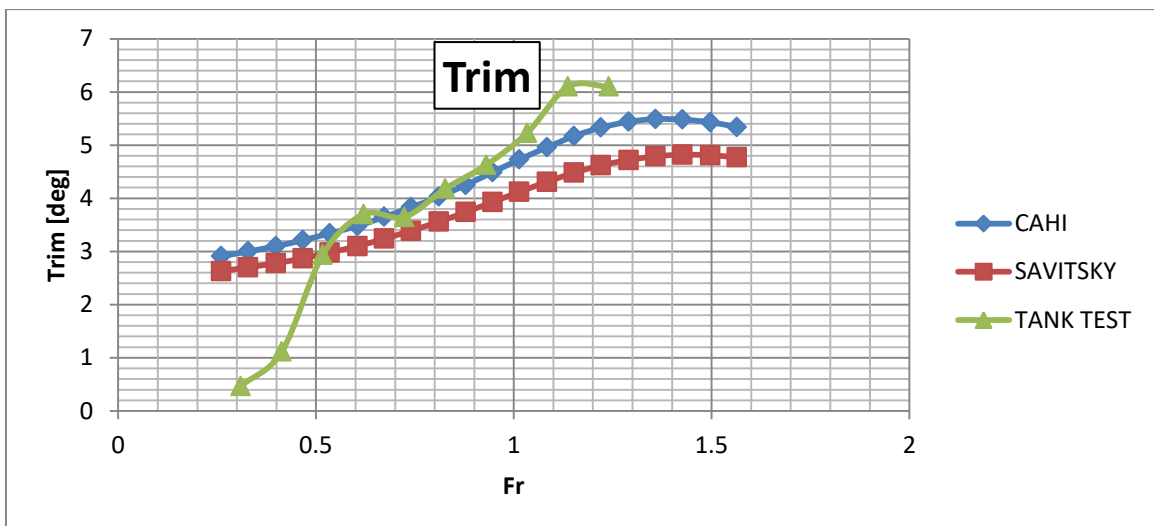
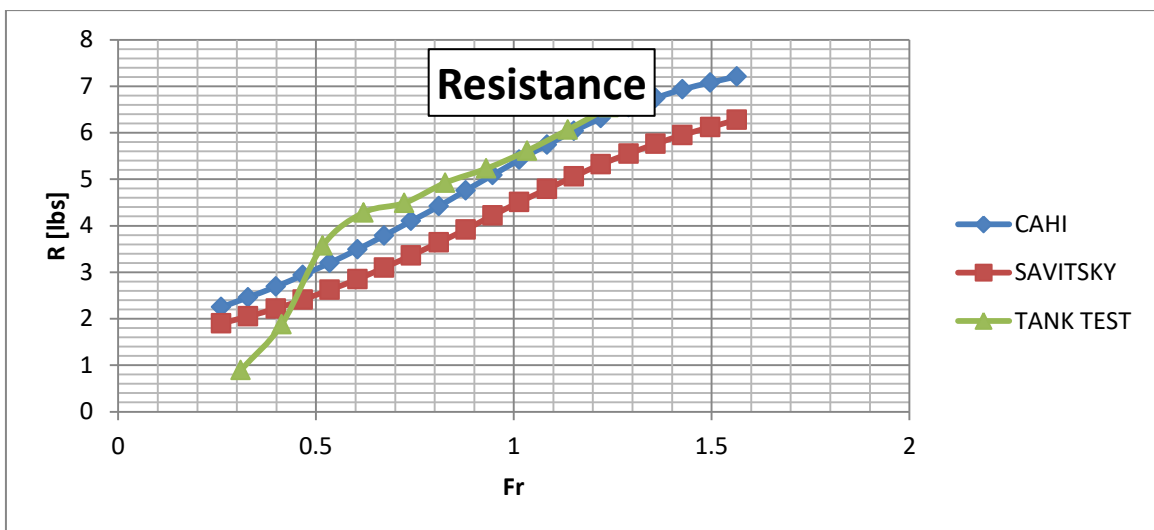
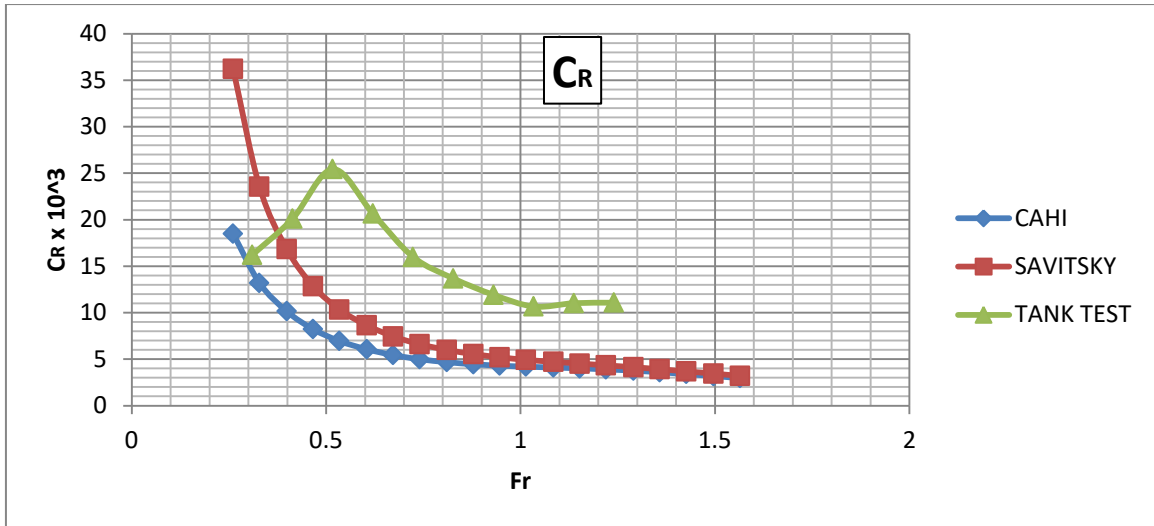
Density=998.50 kg/m³

Viscosity=1.05456*10⁻⁶ m²/s

Results:

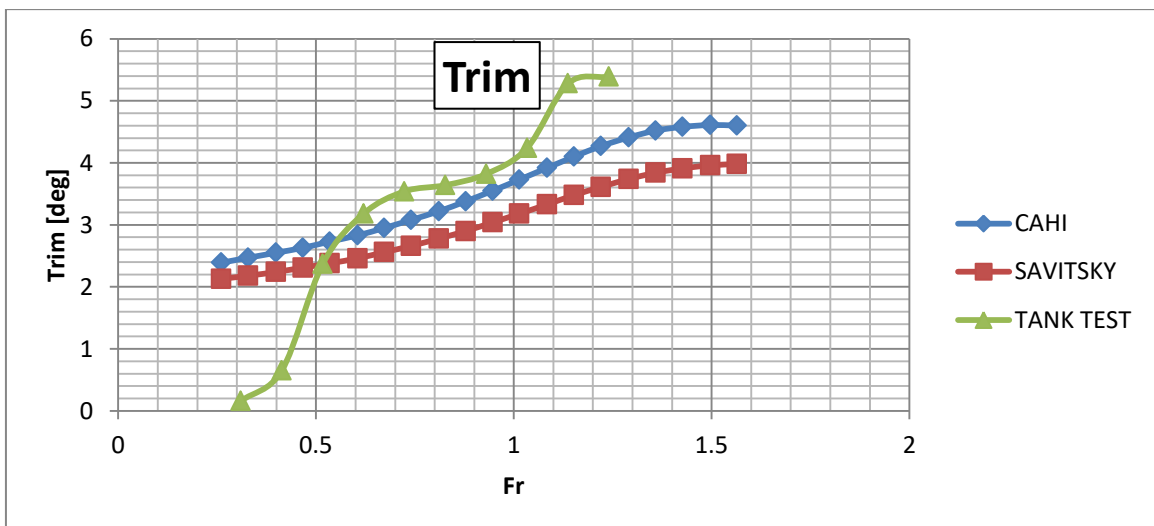
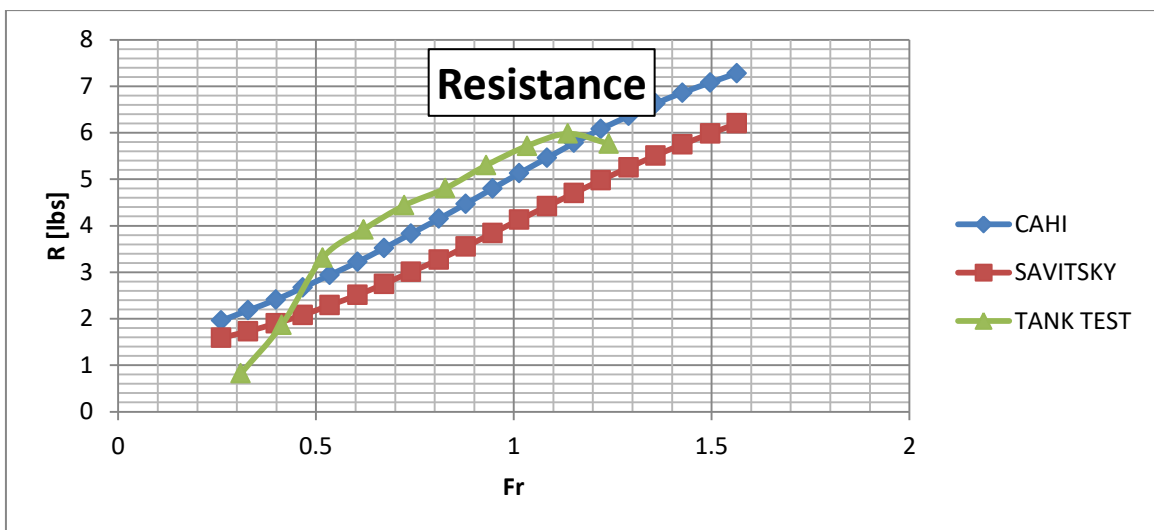
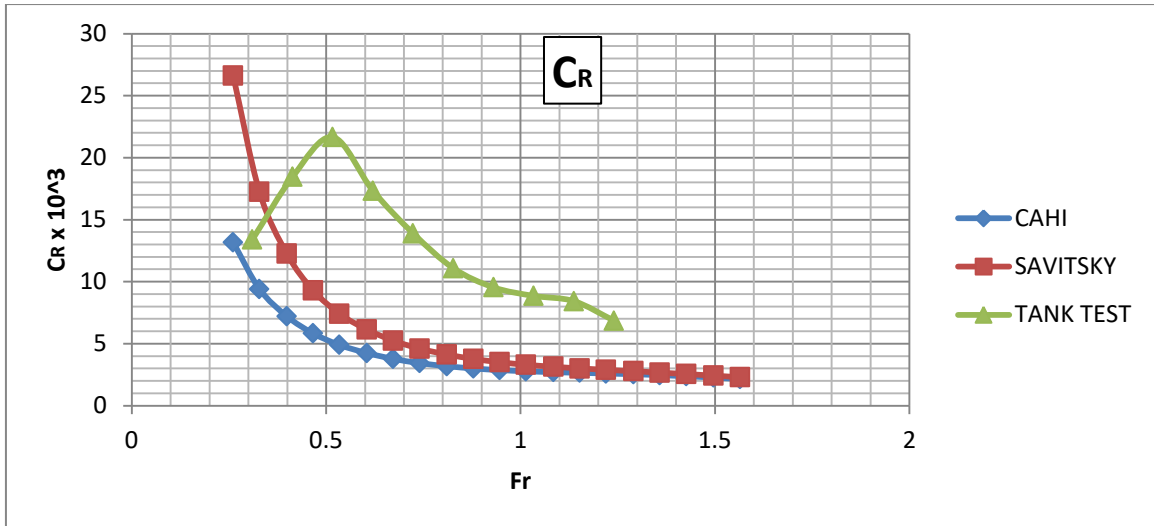
 b=19.00 deg Bc=0.21 m Disp=16.84 kp LCG=0.63 m

| ~CAHI~ | | | | | | | ~SAVITSKY~ | | | | | |
|--------|-------|-------|------|-----------------|-----------------|-------|------------|-------|------|-----------------|-----------------|-------|
| Vs | Lamda | Trim | D/W | Cr | Ct | R | Lamda | Trim | D/W | Cr | Ct | R |
| [m/s] | - | [deg] | [%] | 10 ³ | 10 ³ | [lbs] | - | [deg] | [%] | 10 ³ | 10 ³ | [lbs] |
| 1.00 | 18.88 | 2.91 | 0.06 | 18.486 | 22.058 | 2.25 | 8.72 | 2.63 | 0.05 | 36.211 | 40.370 | 1.90 |
| 1.26 | 17.13 | 3.00 | 0.07 | 13.189 | 16.671 | 2.46 | 8.63 | 2.70 | 0.06 | 23.545 | 27.521 | 2.05 |
| 1.53 | 15.78 | 3.10 | 0.07 | 10.139 | 13.552 | 2.69 | 8.52 | 2.78 | 0.06 | 16.830 | 20.669 | 2.22 |
| 1.79 | 14.69 | 3.21 | 0.08 | 8.220 | 11.579 | 2.94 | 8.39 | 2.87 | 0.06 | 12.858 | 16.591 | 2.41 |
| 2.05 | 13.75 | 3.34 | 0.09 | 6.943 | 10.258 | 3.20 | 8.24 | 2.98 | 0.07 | 10.327 | 13.976 | 2.62 |
| 2.32 | 12.93 | 3.48 | 0.09 | 6.060 | 9.340 | 3.49 | 8.06 | 3.10 | 0.08 | 8.630 | 12.210 | 2.85 |
| 2.58 | 12.18 | 3.65 | 0.10 | 5.436 | 8.689 | 3.79 | 7.87 | 3.24 | 0.08 | 7.449 | 10.974 | 3.10 |
| 2.84 | 11.48 | 3.83 | 0.11 | 4.992 | 8.222 | 4.10 | 7.66 | 3.39 | 0.09 | 6.607 | 10.086 | 3.36 |
| 3.11 | 10.83 | 4.03 | 0.12 | 4.677 | 7.890 | 4.42 | 7.43 | 3.56 | 0.10 | 5.996 | 9.438 | 3.64 |
| 3.37 | 10.21 | 4.25 | 0.13 | 4.456 | 7.657 | 4.76 | 7.18 | 3.74 | 0.11 | 5.545 | 8.957 | 3.92 |
| 3.63 | 9.63 | 4.49 | 0.14 | 4.302 | 7.494 | 5.09 | 6.93 | 3.93 | 0.11 | 5.207 | 8.594 | 4.22 |
| 3.89 | 9.07 | 4.73 | 0.15 | 4.192 | 7.378 | 5.42 | 6.69 | 4.12 | 0.12 | 4.926 | 8.293 | 4.51 |
| 4.16 | 8.55 | 4.96 | 0.15 | 4.101 | 7.284 | 5.74 | 6.42 | 4.31 | 0.13 | 4.717 | 8.069 | 4.79 |
| 4.42 | 8.08 | 5.17 | 0.16 | 4.010 | 7.191 | 6.04 | 6.16 | 4.48 | 0.14 | 4.527 | 7.866 | 5.06 |
| 4.68 | 7.65 | 5.33 | 0.17 | 3.900 | 7.080 | 6.31 | 5.91 | 4.62 | 0.14 | 4.337 | 7.666 | 5.32 |
| 4.95 | 7.27 | 5.44 | 0.18 | 3.761 | 6.939 | 6.55 | 5.69 | 4.72 | 0.15 | 4.135 | 7.455 | 5.55 |
| 5.21 | 6.94 | 5.49 | 0.18 | 3.591 | 6.766 | 6.75 | 5.50 | 4.79 | 0.16 | 3.918 | 7.228 | 5.76 |
| 5.47 | 6.65 | 5.48 | 0.19 | 3.395 | 6.567 | 6.93 | 5.33 | 4.82 | 0.16 | 3.687 | 6.986 | 5.95 |
| 5.74 | 6.40 | 5.43 | 0.19 | 3.182 | 6.349 | 7.08 | 5.18 | 4.81 | 0.16 | 3.446 | 6.734 | 6.12 |
| 6.00 | 6.19 | 5.34 | 0.19 | 2.961 | 6.122 | 7.21 | 5.05 | 4.77 | 0.17 | 3.202 | 6.477 | 6.28 |



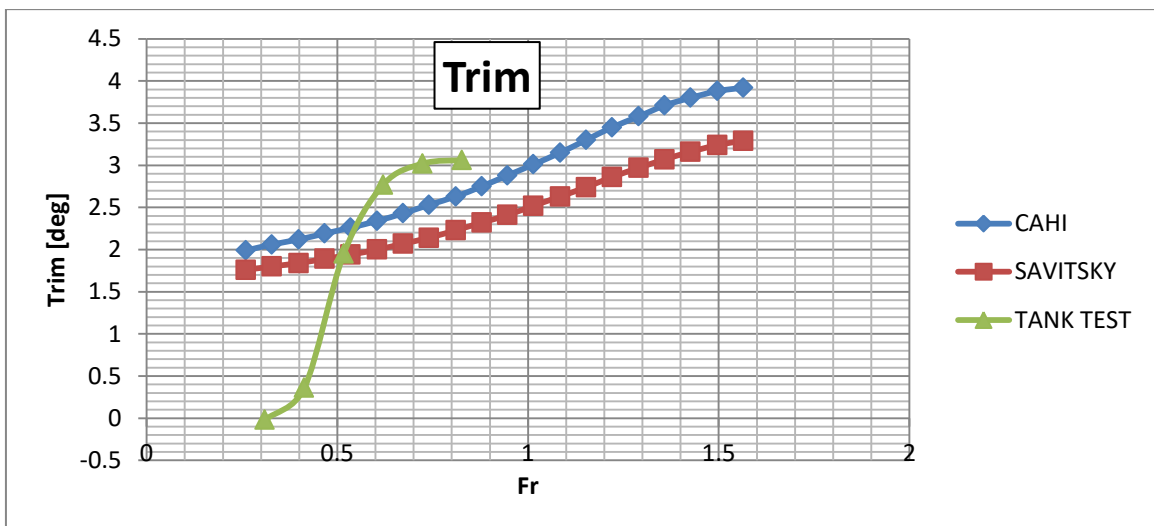
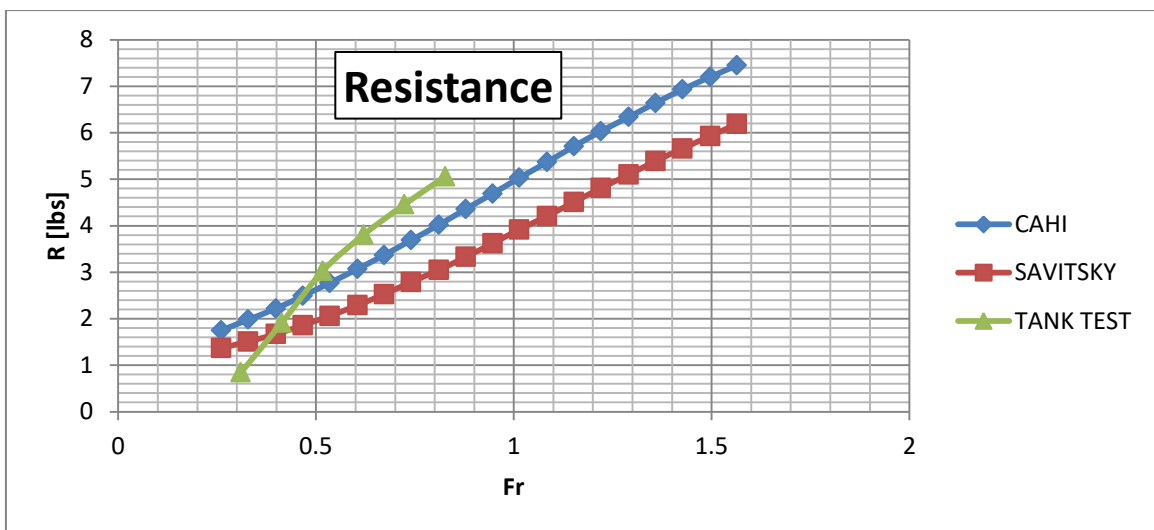
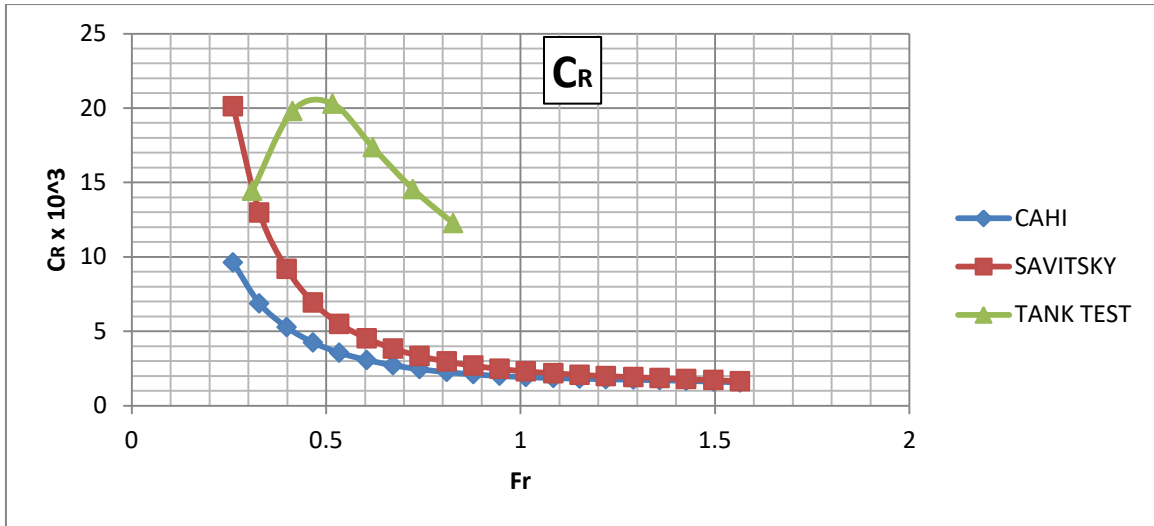
b=19.00 deg Bc=0.21 m Disp=16.84 kp LCG=0.69 m

| ~CAHI~ | | | | | | | ~SAVITSKY~ | | | | | |
|-------------|------------|---------------|------------|-----------------------|-----------------------|------------|------------|---------------|------------|-----------------------|-----------------------|------------|
| Vs [m/s] | Lamda - | Trim [deg] | D/W [%] | Cr 10 ³ | Ct 10 ³ | R [lbs] | Lamda - | Trim [deg] | D/W [%] | Cr 10 ³ | Ct 10 ³ | R [lbs] |
| 1.00 | 21.74 | 2.39 | 0.05 | 13.179 | 16.657 | 1.96 | 9.57 | 2.13 | 0.04 | 26.629 | 30.708 | 1.59 |
| 1.26 | 19.71 | 2.47 | 0.06 | 9.403 | 12.794 | 2.18 | 9.49 | 2.18 | 0.05 | 17.237 | 21.137 | 1.73 |
| 1.53 | 18.17 | 2.55 | 0.06 | 7.213 | 10.538 | 2.41 | 9.39 | 2.24 | 0.05 | 12.252 | 16.018 | 1.90 |
| 1.79 | 16.92 | 2.63 | 0.07 | 5.826 | 9.099 | 2.67 | 9.28 | 2.31 | 0.06 | 9.297 | 12.958 | 2.08 |
| 2.05 | 15.87 | 2.73 | 0.08 | 4.894 | 8.124 | 2.94 | 9.14 | 2.38 | 0.06 | 7.409 | 10.985 | 2.29 |
| 2.32 | 14.95 | 2.83 | 0.09 | 4.242 | 7.437 | 3.22 | 8.98 | 2.46 | 0.07 | 6.135 | 9.642 | 2.51 |
| 2.58 | 14.12 | 2.95 | 0.09 | 3.774 | 6.940 | 3.52 | 8.80 | 2.56 | 0.07 | 5.242 | 8.693 | 2.75 |
| 2.84 | 13.36 | 3.08 | 0.10 | 3.433 | 6.576 | 3.83 | 8.61 | 2.66 | 0.08 | 4.598 | 8.001 | 3.01 |
| 3.11 | 12.65 | 3.22 | 0.11 | 3.183 | 6.307 | 4.15 | 8.39 | 2.78 | 0.09 | 4.125 | 7.488 | 3.27 |
| 3.37 | 11.98 | 3.38 | 0.12 | 3.001 | 6.110 | 4.47 | 8.16 | 2.90 | 0.10 | 3.771 | 7.102 | 3.55 |
| 3.63 | 11.34 | 3.55 | 0.13 | 2.869 | 5.967 | 4.80 | 7.92 | 3.04 | 0.10 | 3.504 | 6.808 | 3.84 |
| 3.89 | 10.74 | 3.73 | 0.14 | 2.774 | 5.864 | 5.13 | 7.67 | 3.18 | 0.11 | 3.300 | 6.581 | 4.13 |
| 4.16 | 10.17 | 3.92 | 0.15 | 2.704 | 5.789 | 5.46 | 7.41 | 3.33 | 0.12 | 3.139 | 6.402 | 4.42 |
| 4.42 | 9.63 | 4.10 | 0.16 | 2.648 | 5.730 | 5.78 | 7.15 | 3.48 | 0.13 | 3.006 | 6.255 | 4.70 |
| 4.68 | 9.12 | 4.27 | 0.16 | 2.595 | 5.675 | 6.08 | 6.89 | 3.61 | 0.13 | 2.890 | 6.126 | 4.98 |
| 4.95 | 8.67 | 4.41 | 0.17 | 2.535 | 5.614 | 6.36 | 6.65 | 3.74 | 0.14 | 2.779 | 6.005 | 5.25 |
| 5.21 | 8.25 | 4.52 | 0.18 | 2.462 | 5.539 | 6.63 | 6.42 | 3.84 | 0.15 | 2.667 | 5.883 | 5.51 |
| 5.47 | 7.88 | 4.58 | 0.18 | 2.372 | 5.448 | 6.86 | 6.21 | 3.91 | 0.15 | 2.548 | 5.755 | 5.75 |
| 5.74 | 7.56 | 4.61 | 0.19 | 2.267 | 5.340 | 7.08 | 6.03 | 3.96 | 0.16 | 2.423 | 5.620 | 5.98 |
| 6.00 | 7.28 | 4.60 | 0.20 | 2.150 | 5.219 | 7.28 | 5.86 | 3.98 | 0.17 | 2.291 | 5.479 | 6.20 |



b=19.00 deg Bc=0.21 m Disp=16.84 kp LCG=0.75 m

| ~CAHI~ | | | | | | | ~SAVITSKY~ | | | | | |
|-------------|------------|---------------|------------|-----------------------|-----------------------|------------|------------|---------------|------------|-----------------------|-----------------------|------------|
| Vs [m/s] | Lamda - | Trim [deg] | D/W [%] | Cr 10 ³ | Ct 10 ³ | R [lbs] | Lamda - | Trim [deg] | D/W [%] | Cr 10 ³ | Ct 10 ³ | R [lbs] |
| 1.00 | 24.77 | 1.99 | 0.05 | 9.619 | 13.013 | 1.75 | 10.43 | 1.76 | 0.04 | 20.124 | 24.133 | 1.37 |
| 1.26 | 22.44 | 2.06 | 0.05 | 6.871 | 10.182 | 1.98 | 10.36 | 1.80 | 0.04 | 12.982 | 16.815 | 1.51 |
| 1.53 | 20.69 | 2.12 | 0.06 | 5.267 | 8.514 | 2.22 | 10.26 | 1.84 | 0.05 | 9.189 | 12.889 | 1.67 |
| 1.79 | 19.28 | 2.19 | 0.07 | 4.245 | 7.441 | 2.49 | 10.15 | 1.89 | 0.05 | 6.937 | 10.534 | 1.86 |
| 2.05 | 18.10 | 2.26 | 0.07 | 3.554 | 6.707 | 2.77 | 10.03 | 1.94 | 0.06 | 5.495 | 9.008 | 2.06 |
| 2.32 | 17.07 | 2.34 | 0.08 | 3.066 | 6.185 | 3.07 | 9.88 | 2.00 | 0.06 | 4.519 | 7.963 | 2.29 |
| 2.58 | 16.16 | 2.43 | 0.09 | 2.711 | 5.802 | 3.37 | 9.72 | 2.07 | 0.07 | 3.831 | 7.218 | 2.53 |
| 2.84 | 15.32 | 2.53 | 0.10 | 2.449 | 5.516 | 3.69 | 9.54 | 2.14 | 0.08 | 3.332 | 6.670 | 2.79 |
| 3.11 | 14.55 | 2.63 | 0.11 | 2.253 | 5.300 | 4.02 | 9.34 | 2.23 | 0.08 | 2.961 | 6.259 | 3.05 |
| 3.37 | 13.83 | 2.75 | 0.12 | 2.106 | 5.137 | 4.36 | 9.13 | 2.32 | 0.09 | 2.681 | 5.944 | 3.33 |
| 3.63 | 13.14 | 2.88 | 0.13 | 1.996 | 5.014 | 4.69 | 8.90 | 2.41 | 0.10 | 2.468 | 5.702 | 3.62 |
| 3.89 | 12.49 | 3.01 | 0.14 | 1.914 | 4.923 | 5.03 | 8.66 | 2.52 | 0.11 | 2.303 | 5.512 | 3.92 |
| 4.16 | 11.87 | 3.15 | 0.14 | 1.854 | 4.856 | 5.37 | 8.41 | 2.63 | 0.11 | 2.174 | 5.363 | 4.21 |
| 4.42 | 11.28 | 3.30 | 0.15 | 1.809 | 4.806 | 5.71 | 8.15 | 2.74 | 0.12 | 2.072 | 5.244 | 4.51 |
| 4.68 | 10.72 | 3.45 | 0.16 | 1.773 | 4.766 | 6.03 | 7.89 | 2.86 | 0.13 | 1.988 | 5.146 | 4.81 |
| 4.95 | 10.19 | 3.58 | 0.17 | 1.741 | 4.732 | 6.34 | 7.63 | 2.97 | 0.14 | 1.916 | 5.062 | 5.10 |
| 5.21 | 9.71 | 3.71 | 0.18 | 1.706 | 4.696 | 6.64 | 7.38 | 3.07 | 0.15 | 1.849 | 4.985 | 5.39 |
| 5.47 | 9.26 | 3.80 | 0.19 | 1.665 | 4.654 | 6.93 | 7.14 | 3.16 | 0.15 | 1.783 | 4.910 | 5.66 |
| 5.74 | 8.86 | 3.88 | 0.19 | 1.616 | 4.603 | 7.20 | 6.92 | 3.24 | 0.16 | 1.716 | 4.834 | 5.93 |
| 6.00 | 8.51 | 3.92 | 0.20 | 1.557 | 4.543 | 7.45 | 6.72 | 3.29 | 0.17 | 1.645 | 4.755 | 6.19 |



Simulation Info:

 28/06/2019 02:44:19 pm

Input Data:

 Ship Speed: from Vs1=1.00 m/s to Vs2=6.00 m/s (for 20 different Ship Speed values)
 Ship Displacement: Disp=12.88 kp
 Breadth at Chine: Bc=0.37 m
 Deadrise Angle: b=25.00 deg
 LCG: from LCG1=0.57 m to LCG2=0.69 m (for 3 different LCG values)

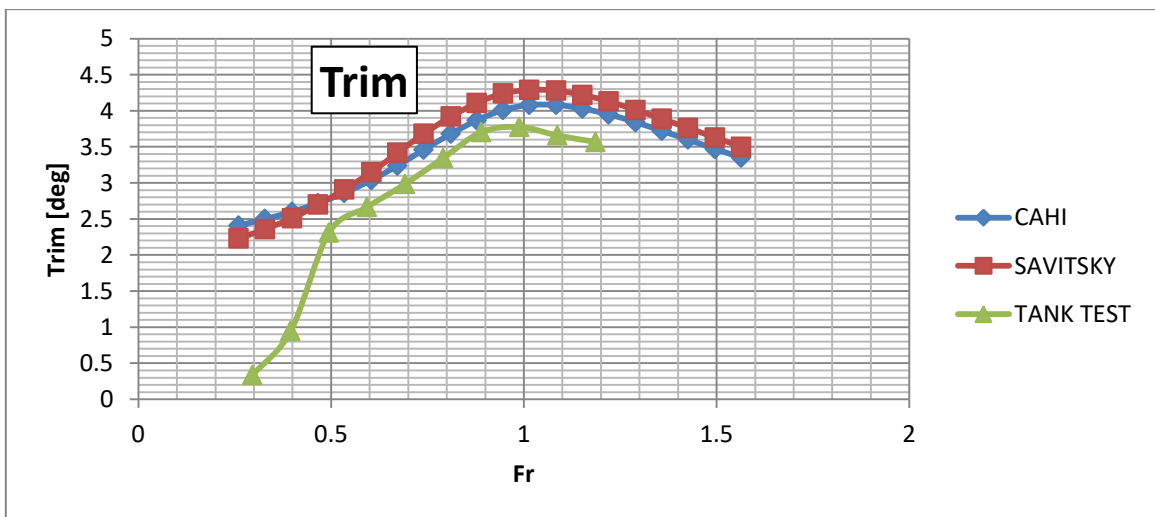
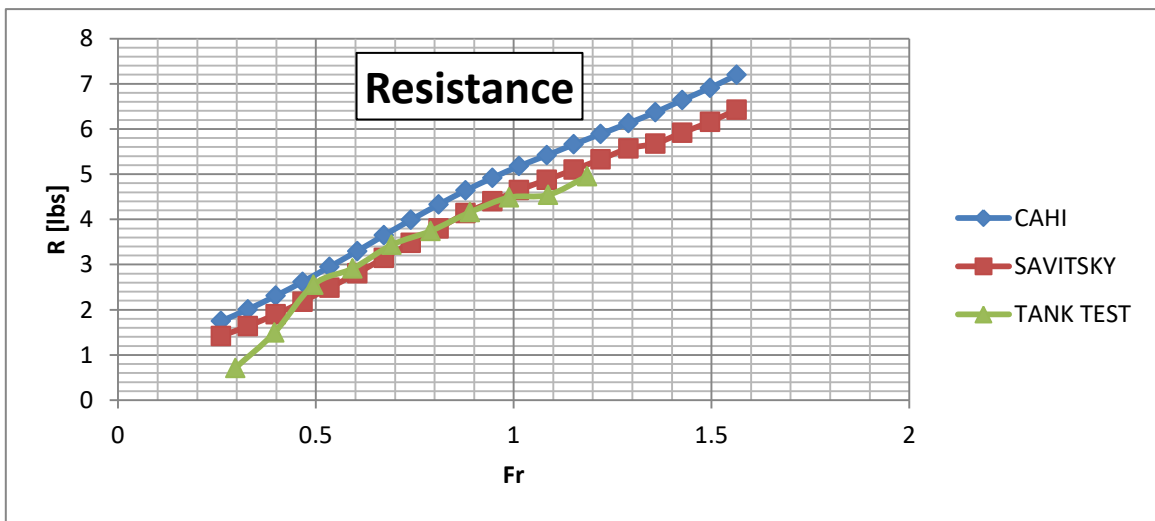
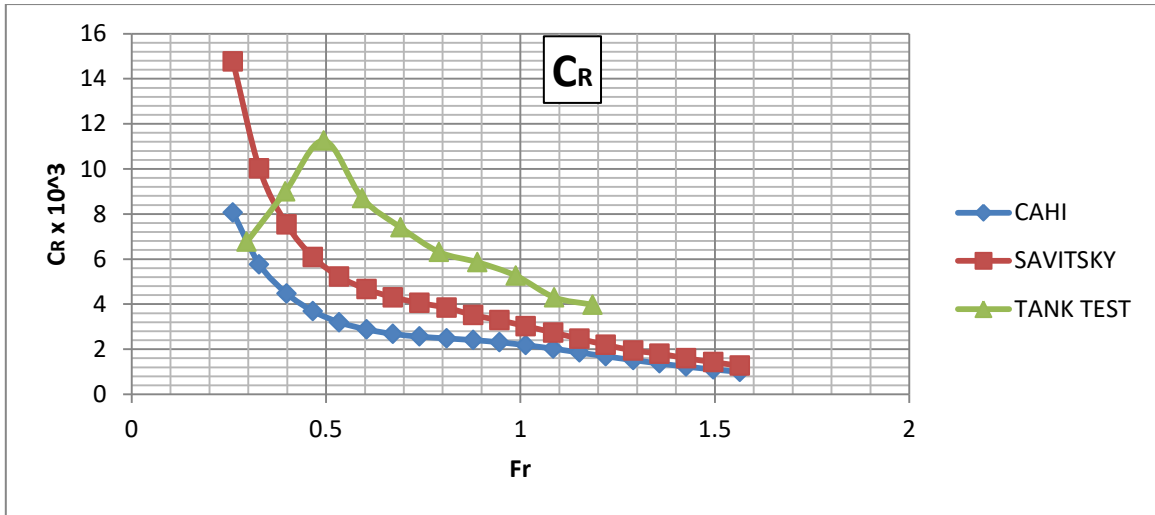
Fresh water properties at 18.80C:

Density=998.34 kg/m³
 Viscosity=1.03375*10⁻⁶ m²/s

Results:

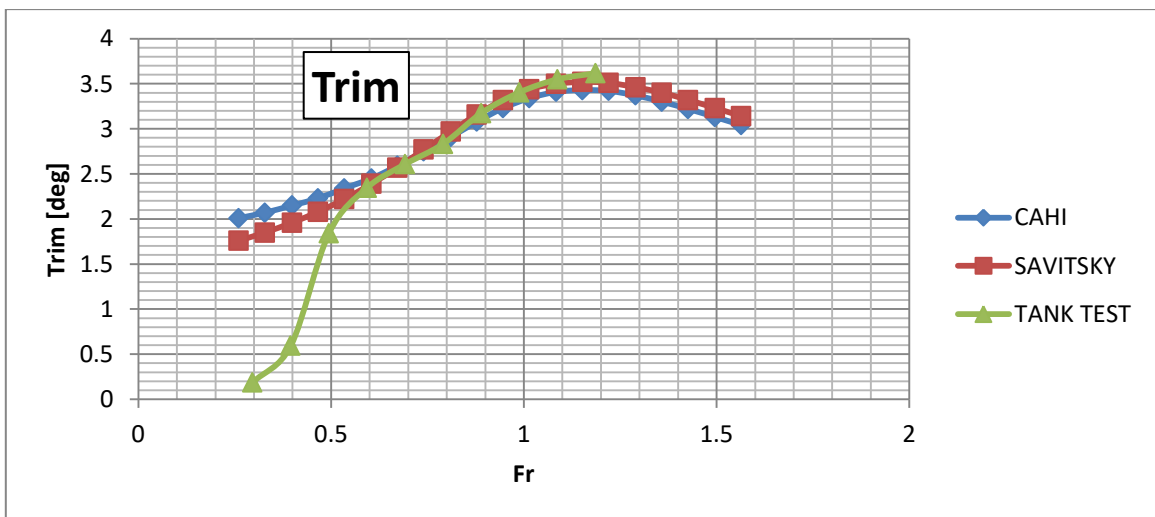
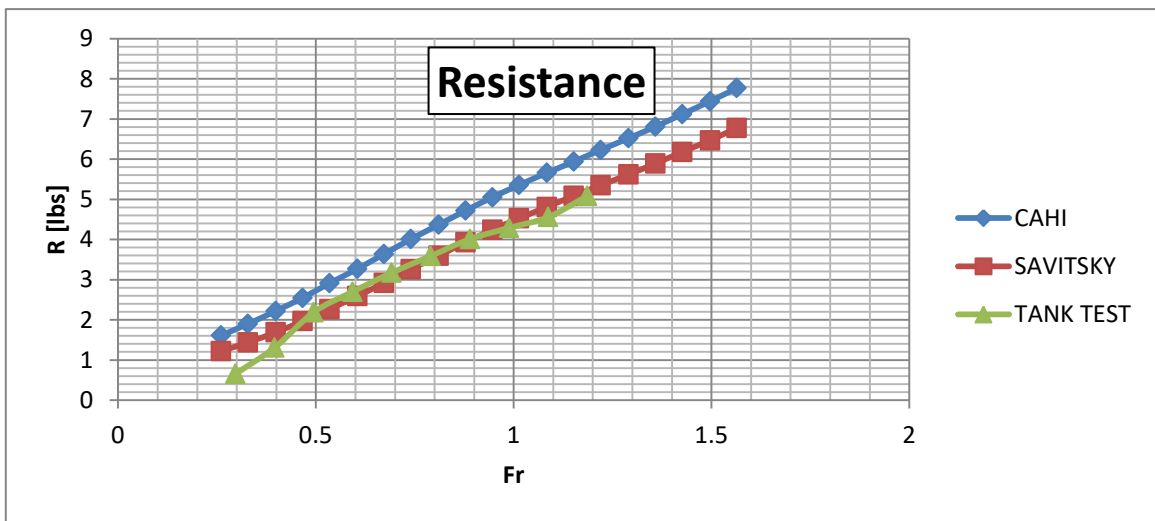
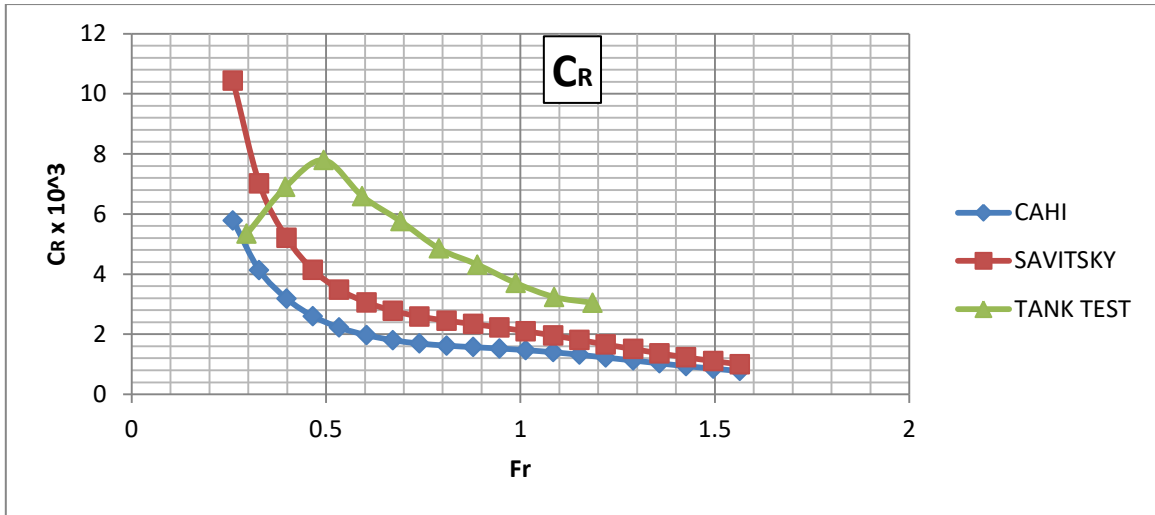
b=25.00 deg Bc=0.37 m Disp=12.88 kp LCG=0.57 m

| ~CAHI~ | | | | | | ~SAVITSKY~ | | | | | | |
|--------|-------|-------|------|-----------------|-----------------|------------|-------|-------|------|-----------------|-----------------|-------|
| Vs | Lamda | Trim | D/W | Cr | Ct | R | Lamda | Trim | D/W | Cr | Ct | R |
| [m/s] | - | [deg] | [%] | 10 ³ | 10 ³ | [lbs] | - | [deg] | [%] | 10 ³ | 10 ³ | [lbs] |
| 1.00 | 8.99 | 2.41 | 0.06 | 8.065 | 11.766 | 1.75 | 4.52 | 2.23 | 0.05 | 14.763 | 19.007 | 1.42 |
| 1.26 | 8.16 | 2.50 | 0.07 | 5.767 | 9.372 | 2.01 | 4.42 | 2.36 | 0.06 | 10.022 | 14.087 | 1.64 |
| 1.53 | 7.50 | 2.60 | 0.08 | 4.475 | 8.009 | 2.31 | 4.30 | 2.51 | 0.07 | 7.532 | 11.467 | 1.90 |
| 1.79 | 6.94 | 2.72 | 0.09 | 3.689 | 7.171 | 2.62 | 4.16 | 2.70 | 0.08 | 6.092 | 9.932 | 2.18 |
| 2.05 | 6.43 | 2.86 | 0.10 | 3.193 | 6.635 | 2.95 | 3.99 | 2.91 | 0.09 | 5.214 | 8.983 | 2.49 |
| 2.32 | 5.95 | 3.04 | 0.12 | 2.877 | 6.291 | 3.30 | 3.81 | 3.15 | 0.10 | 4.662 | 8.378 | 2.81 |
| 2.58 | 5.51 | 3.24 | 0.13 | 2.679 | 6.076 | 3.65 | 3.61 | 3.42 | 0.11 | 4.304 | 7.981 | 3.15 |
| 2.84 | 5.08 | 3.46 | 0.14 | 2.559 | 5.946 | 3.99 | 3.41 | 3.68 | 0.12 | 4.052 | 7.701 | 3.48 |
| 3.11 | 4.69 | 3.68 | 0.15 | 2.480 | 5.862 | 4.33 | 3.22 | 3.92 | 0.13 | 3.840 | 7.468 | 3.80 |
| 3.37 | 4.34 | 3.87 | 0.16 | 2.405 | 5.786 | 4.64 | 3.14 | 4.11 | 0.15 | 3.516 | 7.106 | 4.14 |
| 3.63 | 4.04 | 4.01 | 0.17 | 2.308 | 5.687 | 4.92 | 2.99 | 4.24 | 0.16 | 3.284 | 6.859 | 4.40 |
| 3.89 | 3.79 | 4.08 | 0.18 | 2.179 | 5.555 | 5.18 | 2.86 | 4.29 | 0.16 | 3.021 | 6.578 | 4.65 |
| 4.16 | 3.59 | 4.08 | 0.19 | 2.023 | 5.393 | 5.42 | 2.76 | 4.28 | 0.17 | 2.741 | 6.278 | 4.88 |
| 4.42 | 3.43 | 4.03 | 0.20 | 1.854 | 5.214 | 5.66 | 2.68 | 4.22 | 0.18 | 2.461 | 5.976 | 5.10 |
| 4.68 | 3.29 | 3.95 | 0.21 | 1.683 | 5.032 | 5.89 | 2.62 | 4.13 | 0.19 | 2.193 | 5.684 | 5.33 |
| 4.95 | 3.18 | 3.84 | 0.22 | 1.518 | 4.855 | 6.13 | 2.58 | 4.01 | 0.20 | 1.945 | 5.413 | 5.57 |
| 5.21 | 3.08 | 3.72 | 0.22 | 1.366 | 4.689 | 6.37 | 2.43 | 3.89 | 0.20 | 1.800 | 5.271 | 5.68 |
| 5.47 | 3.00 | 3.60 | 0.23 | 1.227 | 4.536 | 6.64 | 2.39 | 3.76 | 0.21 | 1.601 | 5.050 | 5.92 |
| 5.74 | 2.93 | 3.47 | 0.24 | 1.103 | 4.398 | 6.91 | 2.36 | 3.63 | 0.22 | 1.425 | 4.852 | 6.16 |
| 6.00 | 2.87 | 3.35 | 0.25 | 0.993 | 4.273 | 7.20 | 2.33 | 3.50 | 0.23 | 1.270 | 4.676 | 6.43 |



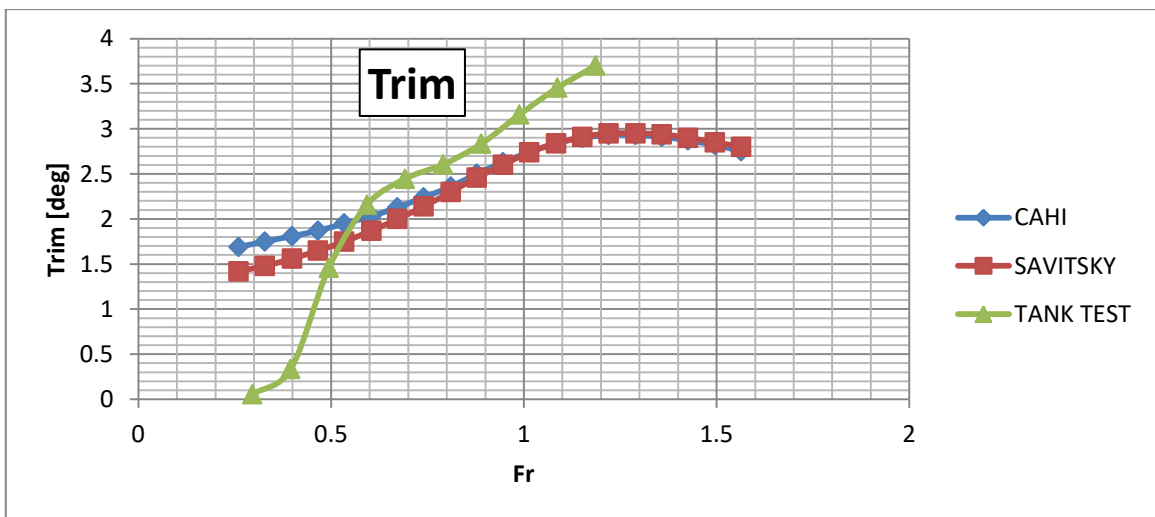
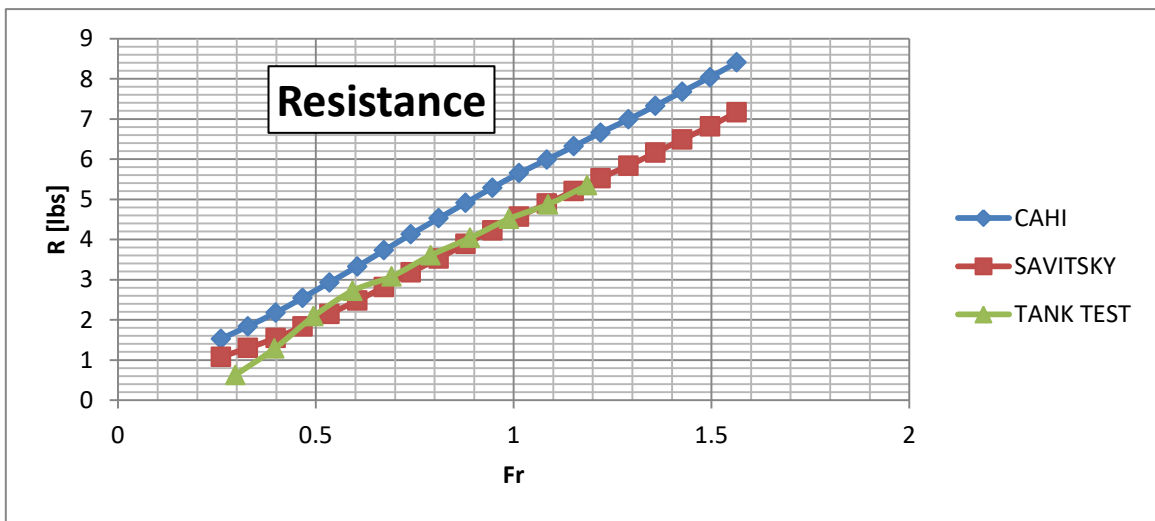
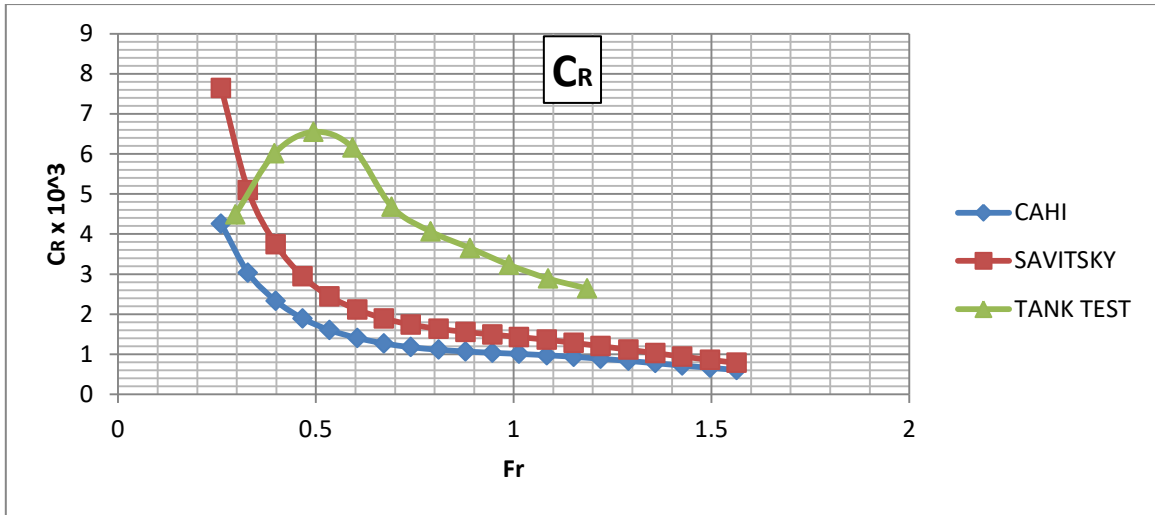
b=25.00 deg Bc=0.37 m Disp=12.88 kp LCG=0.63 m

| ~CAHI~ | | | | | | | ~SAVITSKY~ | | | | | |
|-------------|------------|---------------|------------|-----------------------|-----------------------|------------|------------|---------------|------------|-----------------------|-----------------------|------------|
| Vs [m/s] | Lamda - | Trim [deg] | D/W [%] | Cr 10 ³ | Ct 10 ³ | R [lbs] | Lamda - | Trim [deg] | D/W [%] | Cr 10 ³ | Ct 10 ³ | R [lbs] |
| 1.00 | 10.40 | 2.01 | 0.06 | 5.785 | 9.383 | 1.61 | 5.03 | 1.76 | 0.04 | 10.439 | 14.590 | 1.22 |
| 1.26 | 9.45 | 2.07 | 0.07 | 4.126 | 7.632 | 1.90 | 4.94 | 1.85 | 0.05 | 7.012 | 10.986 | 1.44 |
| 1.53 | 8.70 | 2.15 | 0.08 | 3.182 | 6.618 | 2.22 | 4.83 | 1.96 | 0.06 | 5.201 | 9.046 | 1.69 |
| 1.79 | 8.07 | 2.23 | 0.09 | 2.598 | 5.982 | 2.55 | 4.70 | 2.08 | 0.07 | 4.141 | 7.889 | 1.97 |
| 2.05 | 7.51 | 2.34 | 0.10 | 2.219 | 5.563 | 2.91 | 4.55 | 2.22 | 0.08 | 3.482 | 7.155 | 2.27 |
| 2.32 | 7.00 | 2.45 | 0.12 | 1.968 | 5.281 | 3.27 | 4.38 | 2.39 | 0.09 | 3.057 | 6.673 | 2.59 |
| 2.58 | 6.53 | 2.59 | 0.13 | 1.800 | 5.092 | 3.64 | 4.19 | 2.57 | 0.10 | 2.777 | 6.349 | 2.92 |
| 2.84 | 6.07 | 2.75 | 0.14 | 1.691 | 4.967 | 4.01 | 4.00 | 2.77 | 0.11 | 2.588 | 6.127 | 3.26 |
| 3.11 | 5.65 | 2.91 | 0.15 | 1.620 | 4.888 | 4.37 | 3.80 | 2.97 | 0.13 | 2.451 | 5.966 | 3.60 |
| 3.37 | 5.25 | 3.08 | 0.17 | 1.570 | 4.833 | 4.72 | 3.61 | 3.16 | 0.14 | 2.337 | 5.833 | 3.93 |
| 3.63 | 4.89 | 3.23 | 0.18 | 1.524 | 4.786 | 5.05 | 3.43 | 3.32 | 0.15 | 2.223 | 5.704 | 4.24 |
| 3.89 | 4.57 | 3.34 | 0.19 | 1.469 | 4.730 | 5.36 | 3.27 | 3.44 | 0.16 | 2.098 | 5.563 | 4.53 |
| 4.16 | 4.30 | 3.41 | 0.20 | 1.400 | 4.657 | 5.66 | 3.14 | 3.50 | 0.17 | 1.958 | 5.409 | 4.81 |
| 4.42 | 4.08 | 3.43 | 0.21 | 1.315 | 4.568 | 5.94 | 3.03 | 3.52 | 0.18 | 1.809 | 5.243 | 5.09 |
| 4.68 | 3.89 | 3.42 | 0.22 | 1.222 | 4.468 | 6.23 | 2.93 | 3.51 | 0.19 | 1.655 | 5.073 | 5.35 |
| 4.95 | 3.74 | 3.37 | 0.23 | 1.125 | 4.363 | 6.52 | 2.86 | 3.46 | 0.20 | 1.505 | 4.905 | 5.62 |
| 5.21 | 3.61 | 3.30 | 0.24 | 1.029 | 4.257 | 6.81 | 2.79 | 3.40 | 0.21 | 1.362 | 4.744 | 5.89 |
| 5.47 | 3.50 | 3.22 | 0.25 | 0.938 | 4.155 | 7.12 | 2.74 | 3.32 | 0.22 | 1.229 | 4.592 | 6.18 |
| 5.74 | 3.41 | 3.13 | 0.26 | 0.853 | 4.058 | 7.44 | 2.69 | 3.23 | 0.23 | 1.107 | 4.452 | 6.47 |
| 6.00 | 3.33 | 3.04 | 0.27 | 0.775 | 3.969 | 7.77 | 2.65 | 3.14 | 0.24 | 0.997 | 4.324 | 6.78 |



b=25.00 deg Bc=0.37 m Disp=12.88 kp LCG=0.69 m

| ~CAHI~ | | | | | | | ~SAVITSKY~ | | | | | |
|-------------|------------|---------------|------------|-----------------------|-----------------------|------------|------------|---------------|------------|-----------------------|-----------------------|------------|
| Vs [m/s] | Lamda - | Trim [deg] | D/W [%] | Cr 10 ³ | Ct 10 ³ | R [lbs] | Lamda - | Trim [deg] | D/W [%] | Cr 10 ³ | Ct 10 ³ | R [lbs] |
| 1.00 | 11.90 | 1.69 | 0.05 | 4.254 | 7.762 | 1.53 | 5.54 | 1.42 | 0.04 | 7.644 | 11.714 | 1.08 |
| 1.26 | 10.81 | 1.75 | 0.06 | 3.034 | 6.452 | 1.84 | 5.46 | 1.48 | 0.05 | 5.095 | 8.991 | 1.30 |
| 1.53 | 9.97 | 1.81 | 0.08 | 2.332 | 5.683 | 2.18 | 5.36 | 1.56 | 0.05 | 3.742 | 7.510 | 1.55 |
| 1.79 | 9.26 | 1.87 | 0.09 | 1.893 | 5.192 | 2.55 | 5.24 | 1.65 | 0.06 | 2.945 | 6.615 | 1.84 |
| 2.05 | 8.65 | 1.95 | 0.10 | 1.603 | 4.861 | 2.93 | 5.10 | 1.75 | 0.08 | 2.443 | 6.036 | 2.15 |
| 2.32 | 8.10 | 2.03 | 0.12 | 1.406 | 4.632 | 3.33 | 4.94 | 1.87 | 0.09 | 2.113 | 5.646 | 2.48 |
| 2.58 | 7.59 | 2.13 | 0.13 | 1.270 | 4.472 | 3.73 | 4.77 | 2.00 | 0.10 | 1.891 | 5.377 | 2.82 |
| 2.84 | 7.10 | 2.24 | 0.15 | 1.176 | 4.360 | 4.13 | 4.58 | 2.14 | 0.11 | 1.740 | 5.189 | 3.18 |
| 3.11 | 6.65 | 2.36 | 0.16 | 1.112 | 4.284 | 4.53 | 4.38 | 2.30 | 0.12 | 1.634 | 5.055 | 3.53 |
| 3.37 | 6.21 | 2.50 | 0.17 | 1.069 | 4.233 | 4.91 | 4.19 | 2.46 | 0.14 | 1.556 | 4.955 | 3.89 |
| 3.63 | 5.81 | 2.63 | 0.19 | 1.037 | 4.197 | 5.29 | 3.99 | 2.60 | 0.15 | 1.491 | 4.873 | 4.23 |
| 3.89 | 5.44 | 2.74 | 0.20 | 1.008 | 4.166 | 5.65 | 3.81 | 2.74 | 0.16 | 1.428 | 4.795 | 4.57 |
| 4.16 | 5.11 | 2.84 | 0.21 | 0.975 | 4.132 | 5.99 | 3.65 | 2.84 | 0.17 | 1.360 | 4.714 | 4.90 |
| 4.42 | 4.82 | 2.90 | 0.22 | 0.935 | 4.090 | 6.32 | 3.50 | 2.91 | 0.18 | 1.284 | 4.625 | 5.21 |
| 4.68 | 4.58 | 2.93 | 0.23 | 0.887 | 4.039 | 6.66 | 3.38 | 2.95 | 0.19 | 1.201 | 4.529 | 5.53 |
| 4.95 | 4.38 | 2.93 | 0.25 | 0.833 | 3.980 | 6.99 | 3.28 | 2.95 | 0.21 | 1.114 | 4.429 | 5.84 |
| 5.21 | 4.21 | 2.91 | 0.26 | 0.776 | 3.916 | 7.33 | 3.19 | 2.94 | 0.22 | 1.027 | 4.326 | 6.16 |
| 5.47 | 4.06 | 2.87 | 0.27 | 0.718 | 3.850 | 7.68 | 3.11 | 2.90 | 0.23 | 0.942 | 4.226 | 6.49 |
| 5.74 | 3.94 | 2.82 | 0.28 | 0.661 | 3.785 | 8.04 | 3.05 | 2.85 | 0.24 | 0.860 | 4.129 | 6.82 |
| 6.00 | 3.83 | 2.75 | 0.30 | 0.608 | 3.721 | 8.41 | 3.00 | 2.80 | 0.25 | 0.784 | 4.037 | 7.17 |



Simulation Info:

28/06/2019 02:44:33 pm

Input Data:

Ship Speed: from Vs1=1.00 m/s to Vs2=6.00 m/s (for 20 different Ship Speed values)

Ship Displacement: Disp=17.24 kp

Breadth at Chine: Bc=0.37 m

Deadrise Angle: b=25.00 deg

LCG: from LCG1=0.57 m to LCG2=0.69 m (for 3 different LCG values)

Fresh water properties at 18.40C:

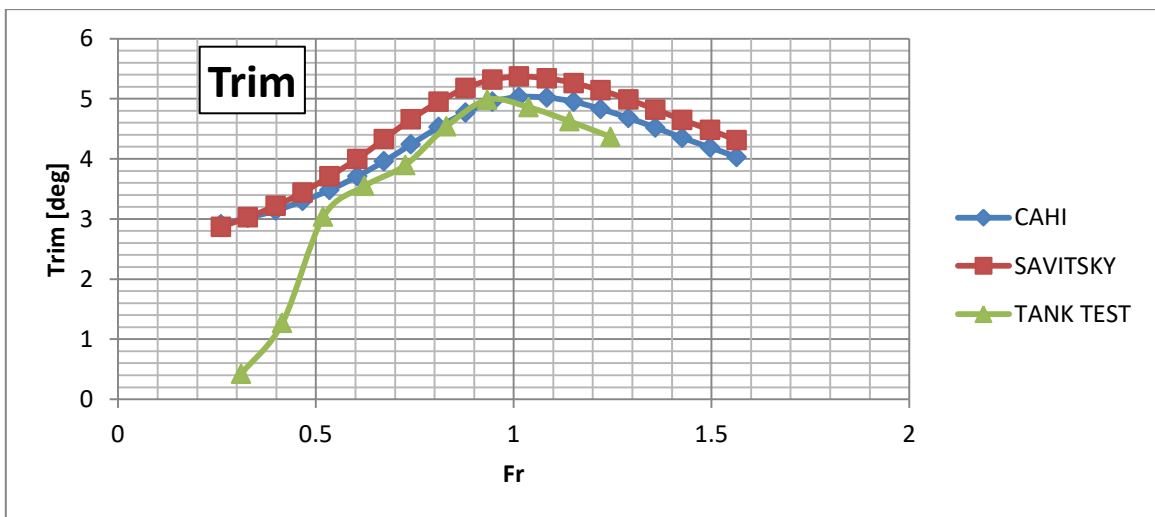
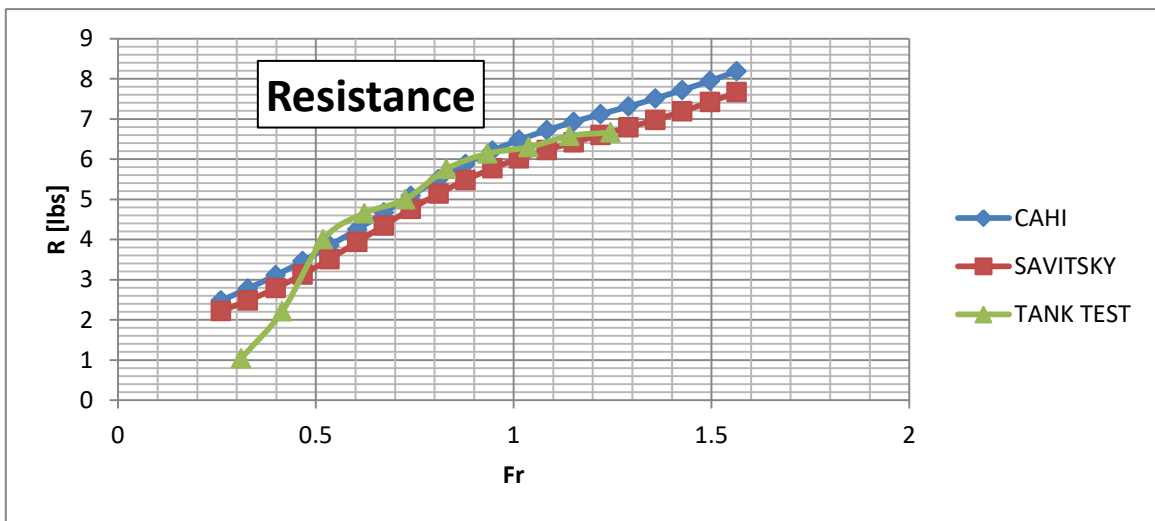
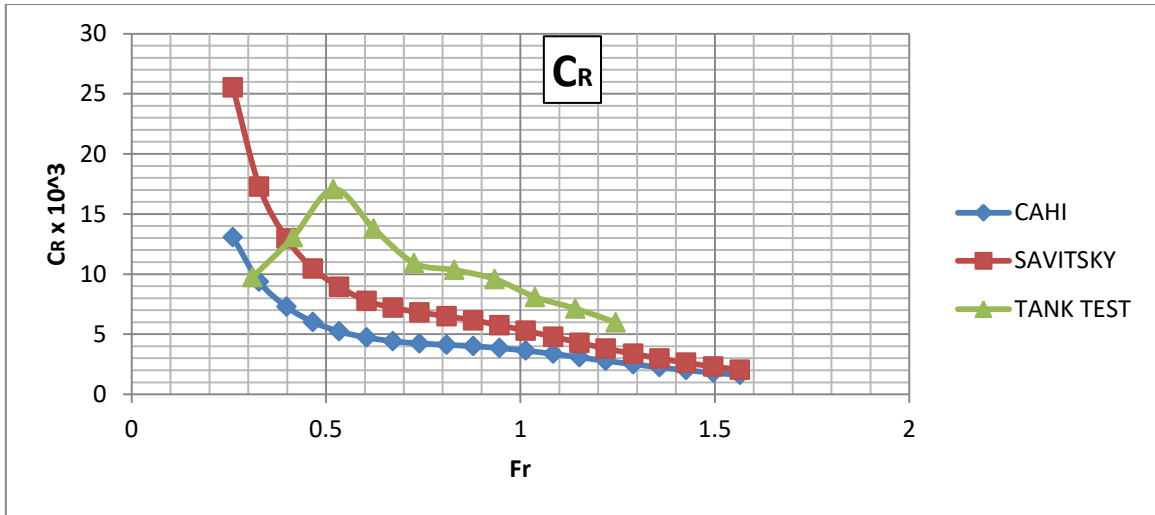
Density=998.42 kg/m³

Viscosity=1.04407*10⁻⁶ m²/s

Results:

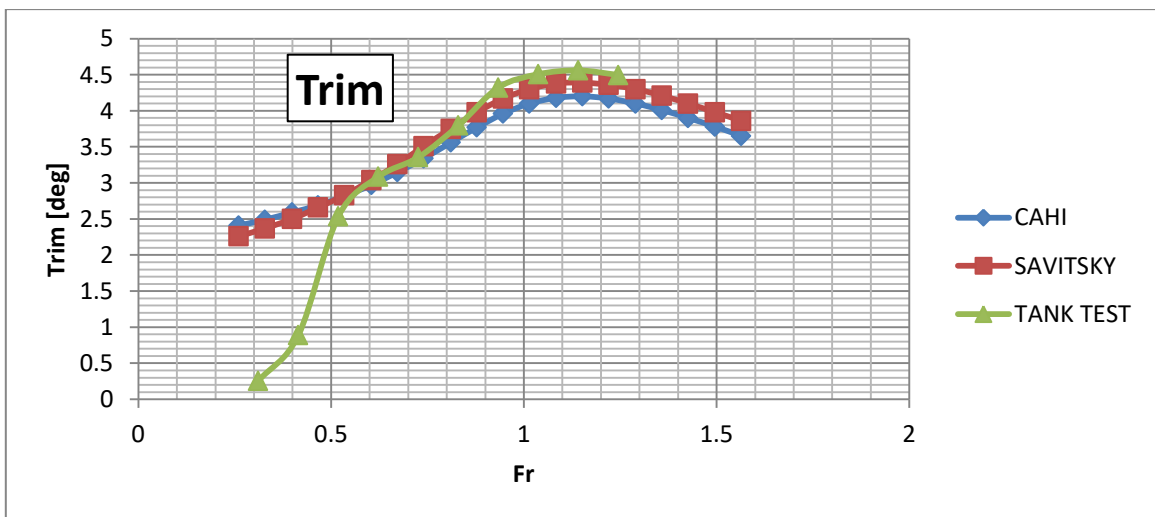
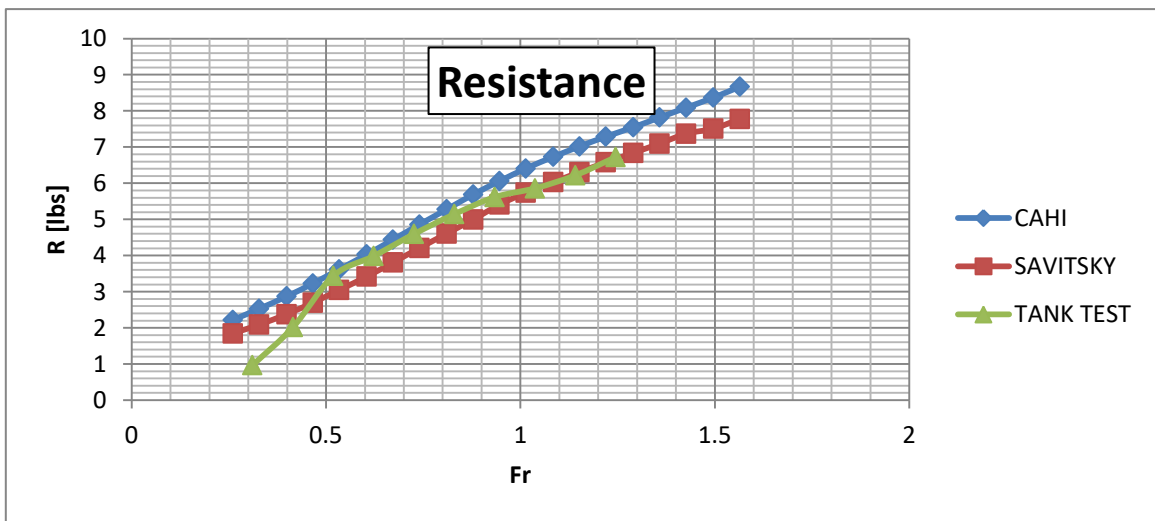
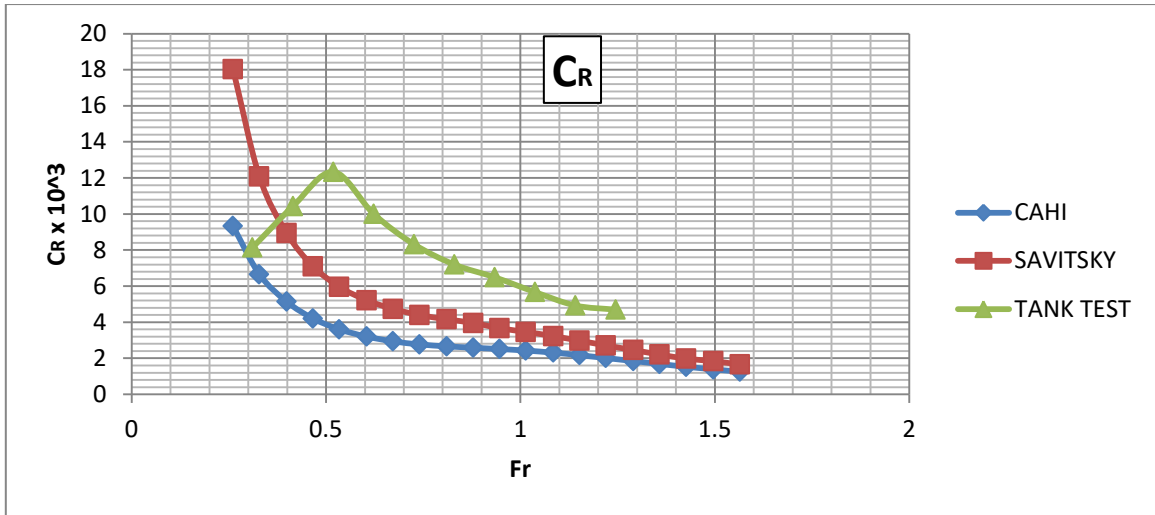
b=25.00 deg Bc=0.37 m Disp=17.24 kp LCG=0.57 m

| ~CAHI~ | | | | | | | ~SAVITSKY~ | | | | | |
|--------|-------|-------|------|-----------------|-----------------|-------|------------|-------|------|-----------------|-----------------|-------|
| Vs | Lamda | Trim | D/W | Cr | Ct | R | Lamda | Trim | D/W | Cr | Ct | R |
| [m/s] | - | [deg] | [%] | 10 ³ | 10 ³ | [lbs] | - | [deg] | [%] | 10 ³ | 10 ³ | [lbs] |
| 1.00 | 8.99 | 2.91 | 0.07 | 13.065 | 16.774 | 2.48 | 4.52 | 2.87 | 0.06 | 25.519 | 29.773 | 2.22 |
| 1.26 | 8.16 | 3.02 | 0.07 | 9.356 | 12.969 | 2.78 | 4.42 | 3.03 | 0.07 | 17.281 | 21.355 | 2.48 |
| 1.53 | 7.50 | 3.14 | 0.08 | 7.276 | 10.819 | 3.11 | 4.30 | 3.22 | 0.07 | 12.957 | 16.902 | 2.79 |
| 1.79 | 6.94 | 3.30 | 0.09 | 6.016 | 9.506 | 3.46 | 4.16 | 3.44 | 0.08 | 10.459 | 14.307 | 3.13 |
| 2.05 | 6.43 | 3.48 | 0.10 | 5.223 | 8.674 | 3.85 | 3.99 | 3.71 | 0.09 | 8.933 | 12.710 | 3.51 |
| 2.32 | 5.95 | 3.71 | 0.11 | 4.723 | 8.146 | 4.25 | 3.91 | 4.00 | 0.10 | 7.766 | 11.472 | 3.94 |
| 2.58 | 5.51 | 3.96 | 0.12 | 4.416 | 7.821 | 4.67 | 3.68 | 4.33 | 0.11 | 7.201 | 10.874 | 4.35 |
| 2.84 | 5.08 | 4.24 | 0.13 | 4.234 | 7.629 | 5.09 | 3.46 | 4.66 | 0.13 | 6.815 | 10.465 | 4.76 |
| 3.11 | 4.69 | 4.53 | 0.14 | 4.115 | 7.506 | 5.50 | 3.24 | 4.95 | 0.14 | 6.493 | 10.126 | 5.14 |
| 3.37 | 4.34 | 4.77 | 0.15 | 4.001 | 7.390 | 5.88 | 3.05 | 5.18 | 0.14 | 6.150 | 9.769 | 5.48 |
| 3.63 | 4.04 | 4.95 | 0.16 | 3.844 | 7.232 | 6.21 | 2.89 | 5.32 | 0.15 | 5.745 | 9.351 | 5.77 |
| 3.89 | 3.79 | 5.03 | 0.17 | 3.628 | 7.013 | 6.48 | 2.77 | 5.37 | 0.16 | 5.282 | 8.870 | 6.02 |
| 4.16 | 3.59 | 5.02 | 0.18 | 3.364 | 6.742 | 6.72 | 2.67 | 5.34 | 0.16 | 4.785 | 8.354 | 6.23 |
| 4.42 | 3.43 | 4.95 | 0.18 | 3.074 | 6.444 | 6.93 | 2.59 | 5.26 | 0.17 | 4.286 | 7.832 | 6.42 |
| 4.68 | 3.29 | 4.83 | 0.19 | 2.781 | 6.140 | 7.12 | 2.54 | 5.14 | 0.17 | 3.808 | 7.331 | 6.60 |
| 4.95 | 3.18 | 4.68 | 0.19 | 2.500 | 5.846 | 7.31 | 2.49 | 4.99 | 0.18 | 3.368 | 6.865 | 6.79 |
| 5.21 | 3.08 | 4.52 | 0.20 | 2.240 | 5.572 | 7.51 | 2.46 | 4.82 | 0.18 | 2.971 | 6.442 | 6.98 |
| 5.47 | 3.00 | 4.35 | 0.20 | 2.004 | 5.322 | 7.72 | 2.44 | 4.65 | 0.19 | 2.619 | 6.065 | 7.19 |
| 5.74 | 2.93 | 4.19 | 0.21 | 1.793 | 5.096 | 7.95 | 2.42 | 4.48 | 0.20 | 2.310 | 5.730 | 7.42 |
| 6.00 | 2.87 | 4.03 | 0.22 | 1.606 | 4.895 | 8.19 | 2.41 | 4.31 | 0.20 | 2.041 | 5.436 | 7.67 |



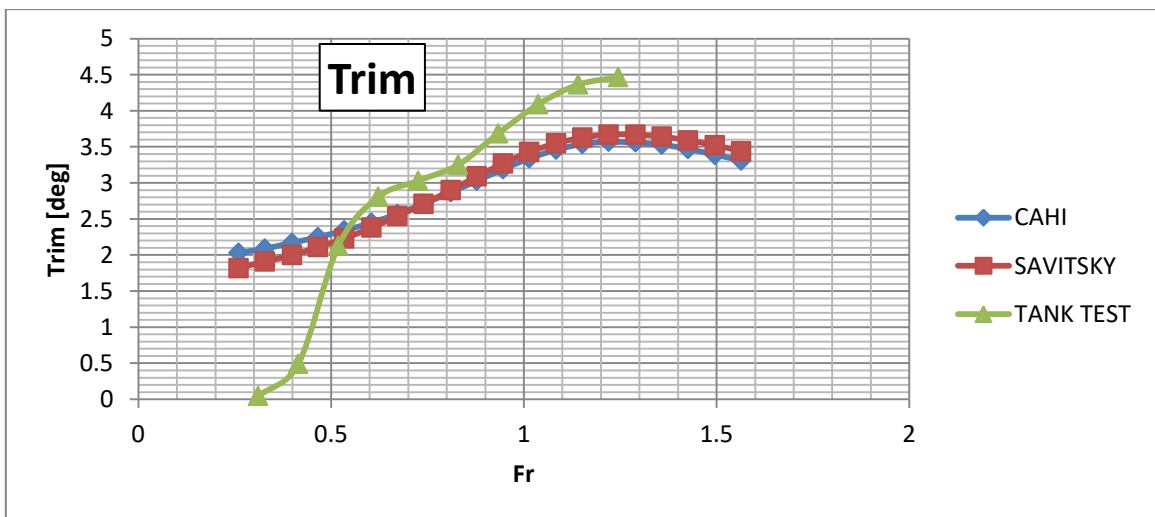
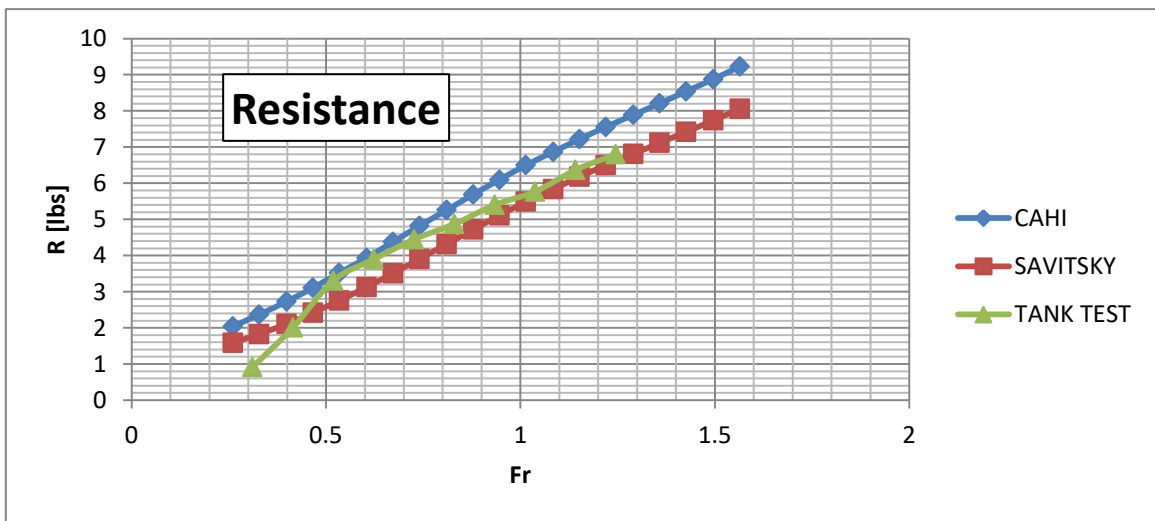
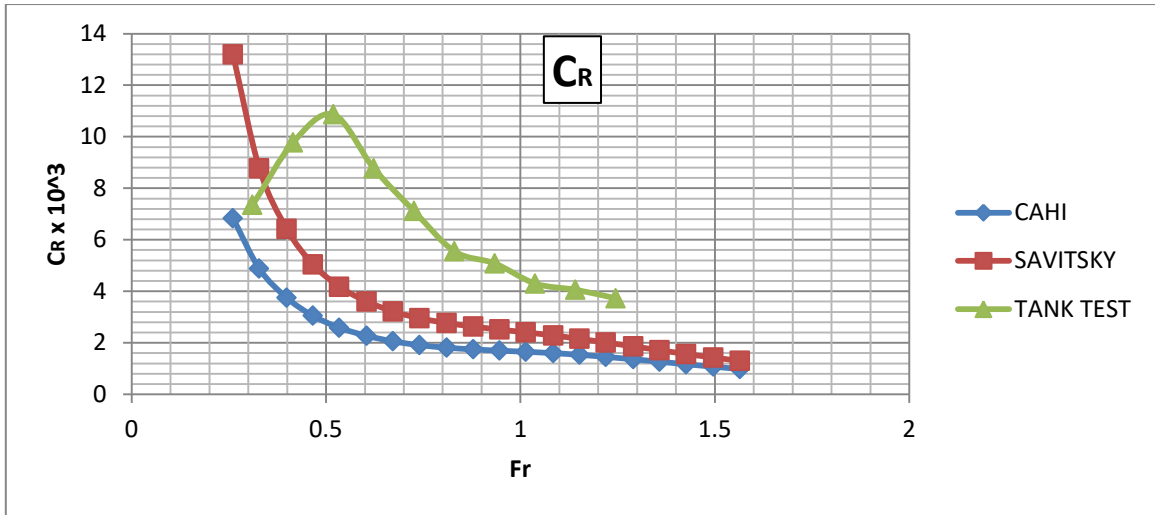
b=25.00 deg Bc=0.37 m Disp=17.24 kp LCG=0.63 m

| ~CAHI~ | | | | | | | ~SAVITSKY~ | | | | | |
|-------------|------------|---------------|------------|-----------------------|-----------------------|------------|------------|---------------|------------|-----------------------|-----------------------|------------|
| Vs [m/s] | Lamda - | Trim [deg] | D/W [%] | Cr 10 ³ | Ct 10 ³ | R [lbs] | Lamda - | Trim [deg] | D/W [%] | Cr 10 ³ | Ct 10 ³ | R [lbs] |
| 1.00 | 10.40 | 2.41 | 0.06 | 9.323 | 12.929 | 2.22 | 5.03 | 2.26 | 0.05 | 18.025 | 22.185 | 1.85 |
| 1.26 | 9.45 | 2.49 | 0.07 | 6.655 | 10.168 | 2.53 | 4.94 | 2.37 | 0.06 | 12.078 | 16.060 | 2.09 |
| 1.53 | 8.70 | 2.59 | 0.08 | 5.139 | 8.583 | 2.87 | 4.83 | 2.50 | 0.06 | 8.936 | 12.789 | 2.38 |
| 1.79 | 8.07 | 2.69 | 0.09 | 4.205 | 7.596 | 3.23 | 4.70 | 2.66 | 0.07 | 7.099 | 10.855 | 2.70 |
| 2.05 | 7.51 | 2.82 | 0.10 | 3.601 | 6.951 | 3.62 | 4.55 | 2.83 | 0.08 | 5.956 | 9.637 | 3.05 |
| 2.32 | 7.00 | 2.97 | 0.11 | 3.201 | 6.521 | 4.03 | 4.38 | 3.04 | 0.09 | 5.217 | 8.841 | 3.42 |
| 2.58 | 6.53 | 3.15 | 0.12 | 2.938 | 6.236 | 4.44 | 4.19 | 3.26 | 0.10 | 4.730 | 8.310 | 3.81 |
| 2.84 | 6.07 | 3.34 | 0.13 | 2.768 | 6.052 | 4.86 | 4.00 | 3.51 | 0.11 | 4.399 | 7.947 | 4.21 |
| 3.11 | 5.65 | 3.56 | 0.14 | 2.660 | 5.935 | 5.28 | 3.80 | 3.75 | 0.12 | 4.159 | 7.682 | 4.61 |
| 3.37 | 5.25 | 3.77 | 0.15 | 2.584 | 5.855 | 5.69 | 3.61 | 3.98 | 0.13 | 3.958 | 7.462 | 5.00 |
| 3.63 | 4.89 | 3.96 | 0.16 | 2.514 | 5.783 | 6.06 | 3.52 | 4.17 | 0.14 | 3.666 | 7.138 | 5.41 |
| 3.89 | 4.57 | 4.10 | 0.17 | 2.426 | 5.694 | 6.41 | 3.35 | 4.30 | 0.15 | 3.461 | 6.919 | 5.74 |
| 4.16 | 4.30 | 4.18 | 0.18 | 2.311 | 5.576 | 6.73 | 3.21 | 4.38 | 0.16 | 3.227 | 6.671 | 6.03 |
| 4.42 | 4.08 | 4.20 | 0.18 | 2.169 | 5.430 | 7.02 | 3.09 | 4.39 | 0.17 | 2.973 | 6.401 | 6.31 |
| 4.68 | 3.89 | 4.17 | 0.19 | 2.011 | 5.265 | 7.29 | 3.00 | 4.36 | 0.17 | 2.711 | 6.121 | 6.58 |
| 4.95 | 3.74 | 4.10 | 0.20 | 1.846 | 5.091 | 7.55 | 2.93 | 4.30 | 0.18 | 2.452 | 5.844 | 6.84 |
| 5.21 | 3.61 | 4.01 | 0.21 | 1.683 | 4.919 | 7.82 | 2.87 | 4.21 | 0.19 | 2.207 | 5.578 | 7.10 |
| 5.47 | 3.50 | 3.90 | 0.21 | 1.528 | 4.753 | 8.09 | 2.83 | 4.10 | 0.19 | 1.979 | 5.330 | 7.37 |
| 5.74 | 3.41 | 3.78 | 0.22 | 1.385 | 4.598 | 8.37 | 2.69 | 3.98 | 0.20 | 1.839 | 5.192 | 7.51 |
| 6.00 | 3.33 | 3.65 | 0.23 | 1.253 | 4.454 | 8.67 | 2.65 | 3.86 | 0.20 | 1.653 | 4.987 | 7.78 |



b=25.00 deg Bc=0.37 m Disp=17.24 kp LCG=0.69 m

| ~CAHI~ | | | | | | | ~SAVITSKY~ | | | | | |
|-------------|------------|---------------|------------|-----------------------|-----------------------|------------|------------|---------------|------------|-----------------------|-----------------------|------------|
| Vs [m/s] | Lamda - | Trim [deg] | D/W [%] | Cr 10 ³ | Ct 10 ³ | R [lbs] | Lamda - | Trim [deg] | D/W [%] | Cr 10 ³ | Ct 10 ³ | R [lbs] |
| 1.00 | 11.90 | 2.03 | 0.05 | 6.834 | 10.348 | 2.04 | 5.54 | 1.82 | 0.04 | 13.189 | 17.268 | 1.59 |
| 1.26 | 10.81 | 2.09 | 0.06 | 4.873 | 8.298 | 2.37 | 5.46 | 1.91 | 0.05 | 8.769 | 12.673 | 1.83 |
| 1.53 | 9.97 | 2.17 | 0.07 | 3.748 | 7.106 | 2.73 | 5.36 | 2.00 | 0.06 | 6.424 | 10.200 | 2.11 |
| 1.79 | 9.26 | 2.25 | 0.08 | 3.046 | 6.352 | 3.11 | 5.24 | 2.11 | 0.06 | 5.044 | 8.721 | 2.42 |
| 2.05 | 8.65 | 2.34 | 0.09 | 2.584 | 5.849 | 3.52 | 5.10 | 2.23 | 0.07 | 4.174 | 7.775 | 2.76 |
| 2.32 | 8.10 | 2.45 | 0.10 | 2.271 | 5.504 | 3.94 | 4.94 | 2.38 | 0.08 | 3.603 | 7.143 | 3.13 |
| 2.58 | 7.59 | 2.57 | 0.12 | 2.056 | 5.264 | 4.38 | 4.77 | 2.54 | 0.09 | 3.217 | 6.710 | 3.51 |
| 2.84 | 7.10 | 2.71 | 0.13 | 1.909 | 5.100 | 4.82 | 4.58 | 2.71 | 0.10 | 2.953 | 6.409 | 3.91 |
| 3.11 | 6.65 | 2.87 | 0.14 | 1.810 | 4.989 | 5.26 | 4.38 | 2.90 | 0.11 | 2.768 | 6.196 | 4.32 |
| 3.37 | 6.21 | 3.03 | 0.15 | 1.744 | 4.915 | 5.69 | 4.19 | 3.09 | 0.12 | 2.630 | 6.036 | 4.72 |
| 3.63 | 5.81 | 3.19 | 0.16 | 1.695 | 4.863 | 6.10 | 3.99 | 3.27 | 0.13 | 2.515 | 5.904 | 5.11 |
| 3.89 | 5.44 | 3.34 | 0.17 | 1.651 | 4.816 | 6.50 | 3.81 | 3.43 | 0.14 | 2.404 | 5.779 | 5.49 |
| 4.16 | 5.11 | 3.46 | 0.18 | 1.598 | 4.763 | 6.87 | 3.65 | 3.55 | 0.15 | 2.285 | 5.647 | 5.84 |
| 4.42 | 4.82 | 3.54 | 0.19 | 1.533 | 4.695 | 7.22 | 3.50 | 3.63 | 0.16 | 2.153 | 5.502 | 6.18 |
| 4.68 | 4.58 | 3.57 | 0.20 | 1.452 | 4.611 | 7.56 | 3.38 | 3.67 | 0.17 | 2.010 | 5.346 | 6.50 |
| 4.95 | 4.38 | 3.56 | 0.21 | 1.361 | 4.515 | 7.89 | 3.28 | 3.67 | 0.18 | 1.861 | 5.183 | 6.81 |
| 5.21 | 4.21 | 3.53 | 0.22 | 1.265 | 4.412 | 8.21 | 3.19 | 3.64 | 0.19 | 1.711 | 5.018 | 7.12 |
| 5.47 | 4.06 | 3.47 | 0.22 | 1.167 | 4.306 | 8.54 | 3.11 | 3.59 | 0.20 | 1.566 | 4.857 | 7.42 |
| 5.74 | 3.94 | 3.39 | 0.23 | 1.072 | 4.202 | 8.88 | 3.05 | 3.52 | 0.20 | 1.427 | 4.703 | 7.74 |
| 6.00 | 3.83 | 3.31 | 0.24 | 0.982 | 4.102 | 9.23 | 3.00 | 3.44 | 0.21 | 1.298 | 4.558 | 8.06 |



Simulation Info:

28/06/2019 02:44:46 pm

Input Data:

Ship Speed: from Vs1=1.00 m/s to Vs2=6.00 m/s (for 20 different Ship Speed values)

Ship Displacement: Disp=24.75 kp

Breadth at Chine: Bc=0.37 m

Deadrise Angle: b=25.00 deg

LCG: from LCG1=0.57 m to LCG2=0.69 m (for 3 different LCG values)

Fresh water properties at 19.00C:

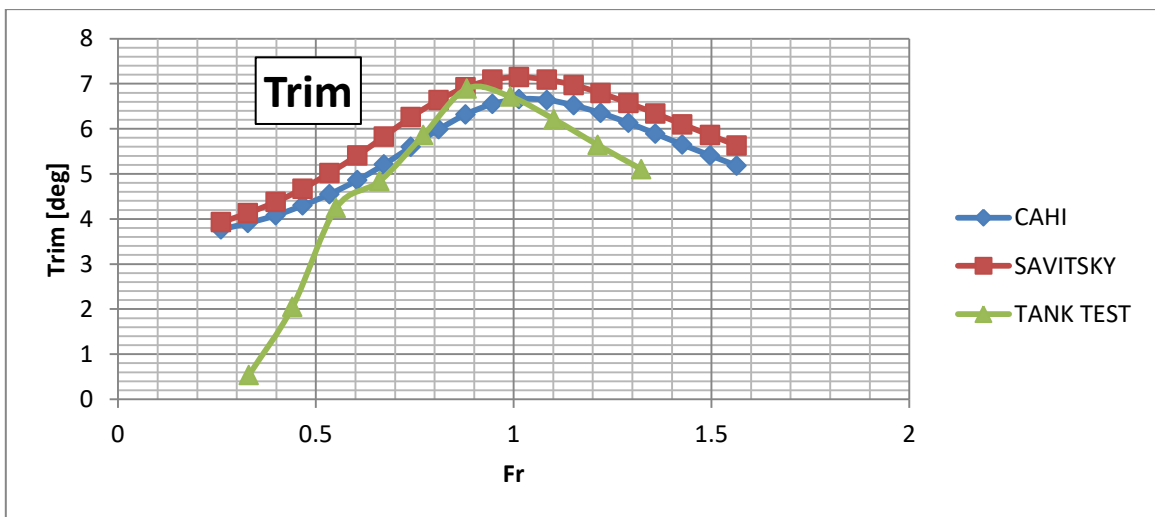
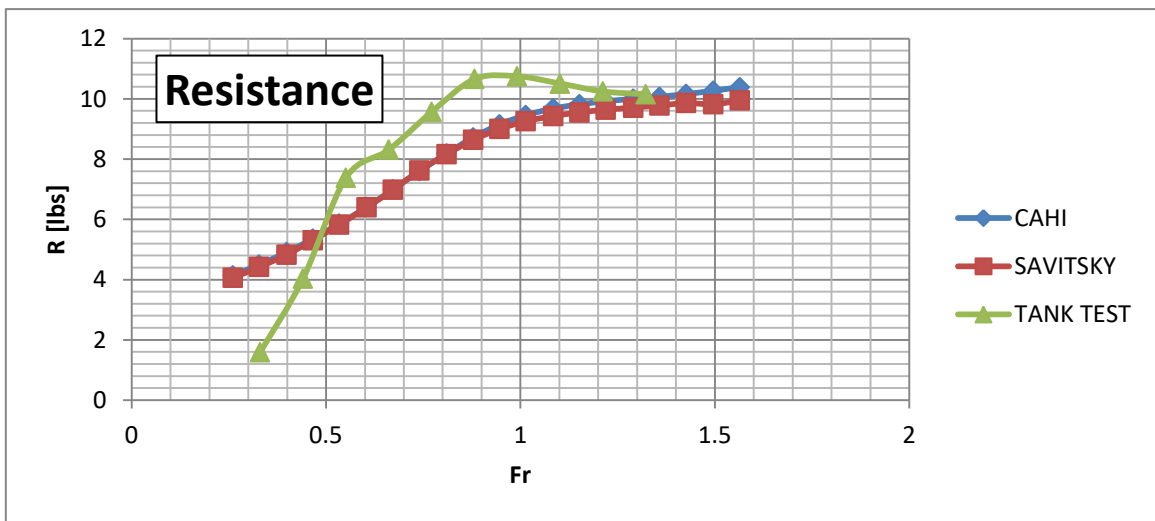
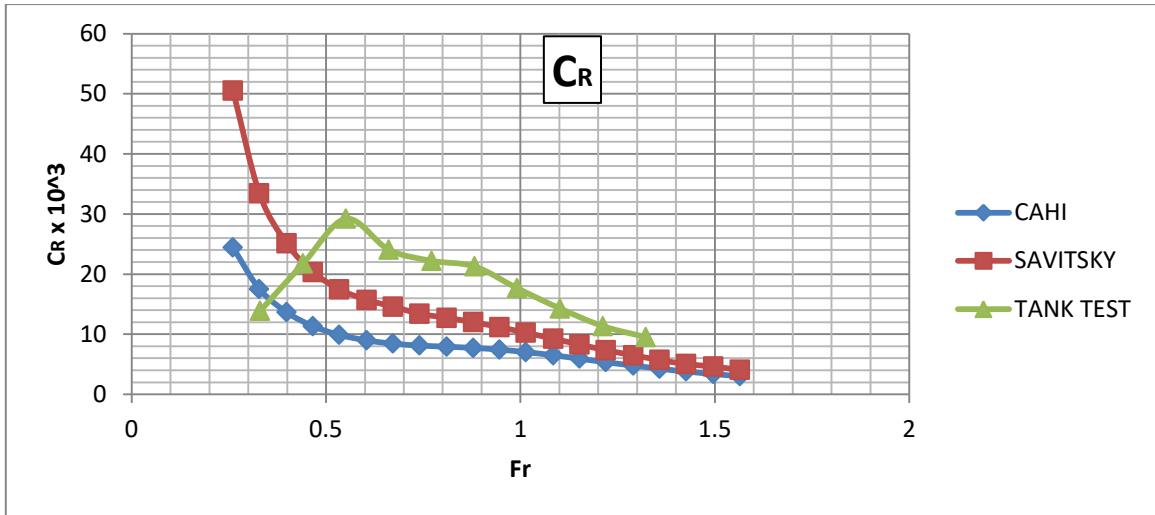
Density=998.30 kg/m³

Viscosity=1.02865*10⁻⁶ m²/s

Results:

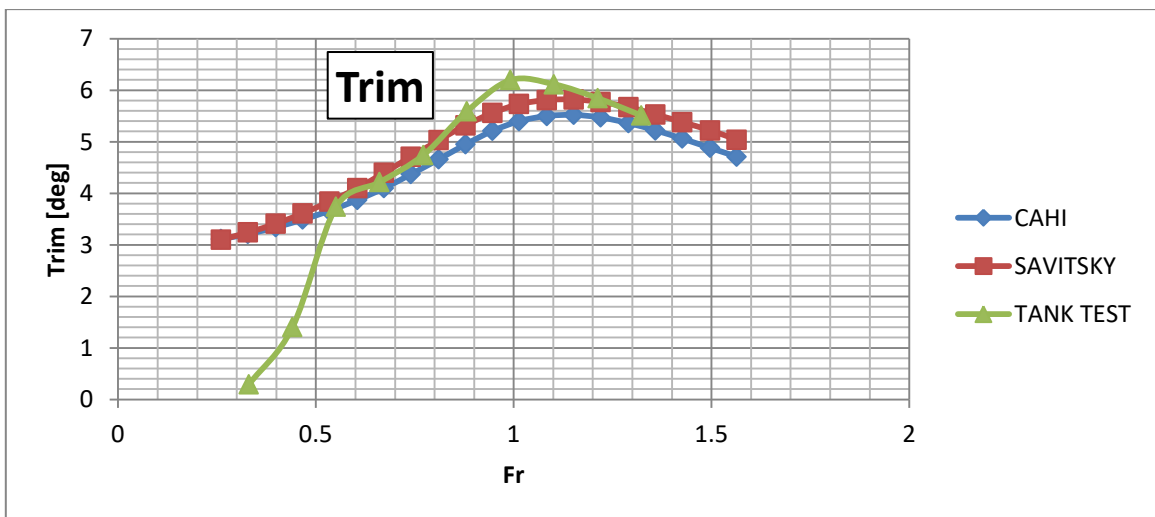
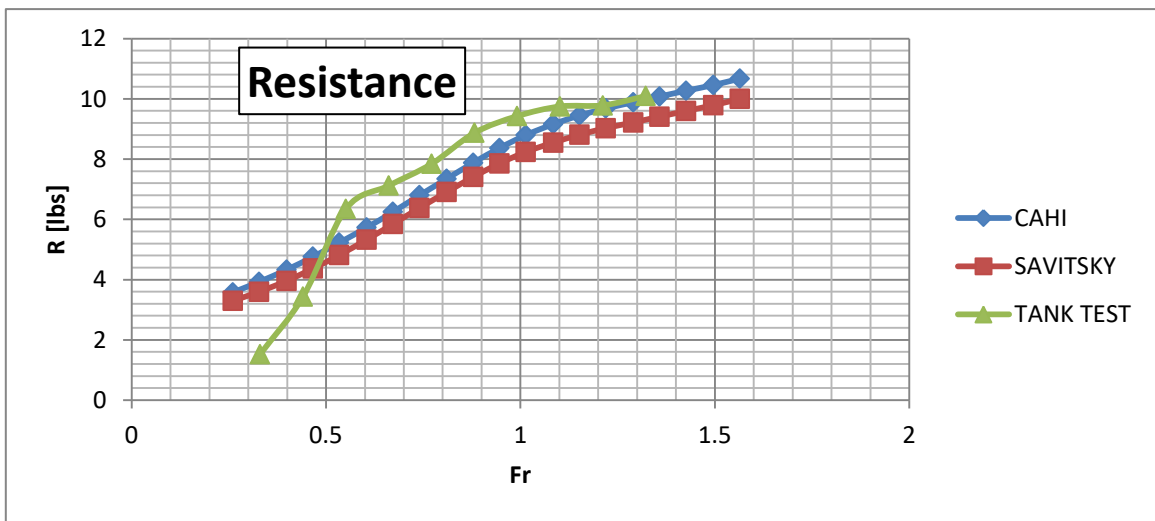
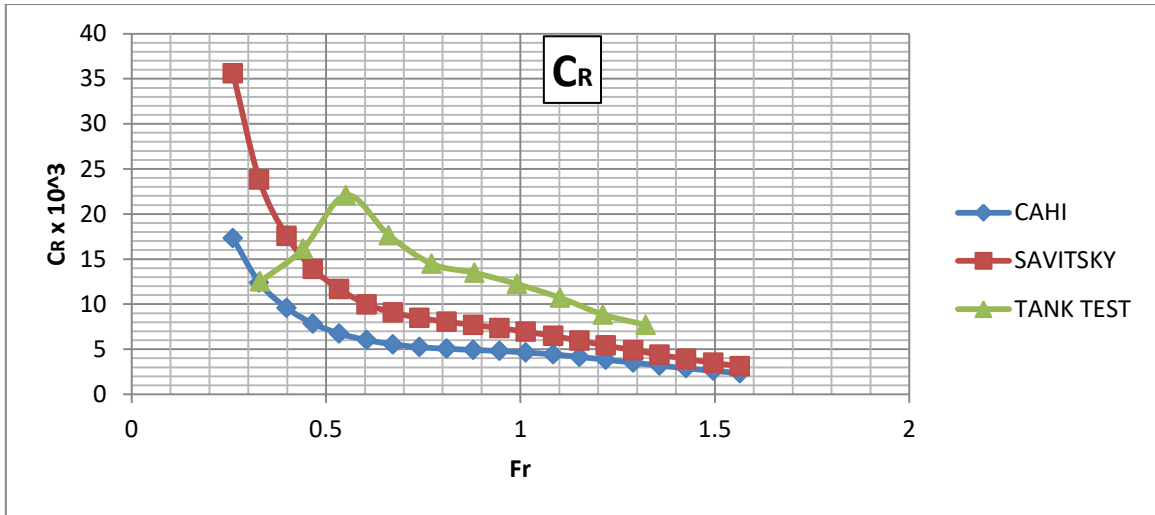
b=25.00 deg Bc=0.37 m Disp=24.75 kp LCG=0.57 m

| ~CAHI~ | | | | | | | ~SAVITSKY~ | | | | | |
|--------|-------|-------|------|-----------------|-----------------|-------|------------|-------|------|-----------------|-----------------|-------|
| Vs | Lamda | Trim | D/W | Cr | Ct | R | Lamda | Trim | D/W | Cr | Ct | R |
| [m/s] | - | [deg] | [%] | 10 ³ | 10 ³ | [lbs] | - | [deg] | [%] | 10 ³ | 10 ³ | [lbs] |
| 1.00 | 8.99 | 3.77 | 0.08 | 24.415 | 28.116 | 4.14 | 4.52 | 3.93 | 0.07 | 50.506 | 54.750 | 4.06 |
| 1.26 | 8.16 | 3.91 | 0.08 | 17.519 | 21.124 | 4.50 | 4.51 | 4.13 | 0.08 | 33.438 | 37.486 | 4.42 |
| 1.53 | 7.50 | 4.08 | 0.09 | 13.661 | 17.196 | 4.91 | 4.37 | 4.38 | 0.09 | 25.122 | 29.045 | 4.83 |
| 1.79 | 6.94 | 4.30 | 0.10 | 11.333 | 14.815 | 5.36 | 4.20 | 4.67 | 0.10 | 20.346 | 24.178 | 5.31 |
| 2.05 | 6.43 | 4.55 | 0.11 | 9.878 | 13.321 | 5.86 | 4.01 | 5.02 | 0.11 | 17.466 | 21.233 | 5.83 |
| 2.32 | 5.95 | 4.86 | 0.12 | 8.970 | 12.386 | 6.41 | 3.79 | 5.41 | 0.12 | 15.697 | 19.418 | 6.40 |
| 2.58 | 5.51 | 5.21 | 0.13 | 8.425 | 11.824 | 7.00 | 3.56 | 5.83 | 0.13 | 14.597 | 18.288 | 6.99 |
| 2.84 | 5.08 | 5.60 | 0.14 | 8.115 | 11.504 | 7.60 | 3.44 | 6.26 | 0.14 | 13.408 | 17.056 | 7.62 |
| 3.11 | 4.69 | 5.99 | 0.15 | 7.921 | 11.306 | 8.19 | 3.23 | 6.64 | 0.15 | 12.724 | 16.354 | 8.17 |
| 3.37 | 4.34 | 6.32 | 0.16 | 7.725 | 11.109 | 8.72 | 3.05 | 6.92 | 0.16 | 12.006 | 15.621 | 8.64 |
| 3.63 | 4.04 | 6.55 | 0.17 | 7.435 | 10.819 | 9.15 | 2.89 | 7.09 | 0.16 | 11.178 | 14.778 | 9.00 |
| 3.89 | 3.79 | 6.66 | 0.17 | 7.018 | 10.398 | 9.46 | 2.77 | 7.15 | 0.17 | 10.245 | 13.828 | 9.26 |
| 4.16 | 3.59 | 6.64 | 0.18 | 6.497 | 9.872 | 9.68 | 2.67 | 7.09 | 0.17 | 9.259 | 12.822 | 9.43 |
| 4.42 | 3.43 | 6.52 | 0.18 | 5.922 | 9.287 | 9.82 | 2.59 | 6.97 | 0.18 | 8.277 | 11.818 | 9.55 |
| 4.68 | 3.29 | 6.35 | 0.18 | 5.338 | 8.692 | 9.92 | 2.53 | 6.79 | 0.18 | 7.343 | 10.861 | 9.64 |
| 4.95 | 3.18 | 6.13 | 0.18 | 4.778 | 8.119 | 10.00 | 2.49 | 6.57 | 0.18 | 6.485 | 9.979 | 9.71 |
| 5.21 | 3.08 | 5.89 | 0.18 | 4.260 | 7.588 | 10.07 | 2.45 | 6.34 | 0.18 | 5.715 | 9.184 | 9.78 |
| 5.47 | 3.00 | 5.65 | 0.19 | 3.792 | 7.105 | 10.16 | 2.42 | 6.10 | 0.18 | 5.034 | 8.478 | 9.86 |
| 5.74 | 2.93 | 5.41 | 0.19 | 3.376 | 6.674 | 10.27 | 2.30 | 5.86 | 0.18 | 4.620 | 8.066 | 9.82 |
| 6.00 | 2.87 | 5.18 | 0.19 | 3.008 | 6.291 | 10.39 | 2.29 | 5.63 | 0.18 | 4.061 | 7.480 | 9.95 |



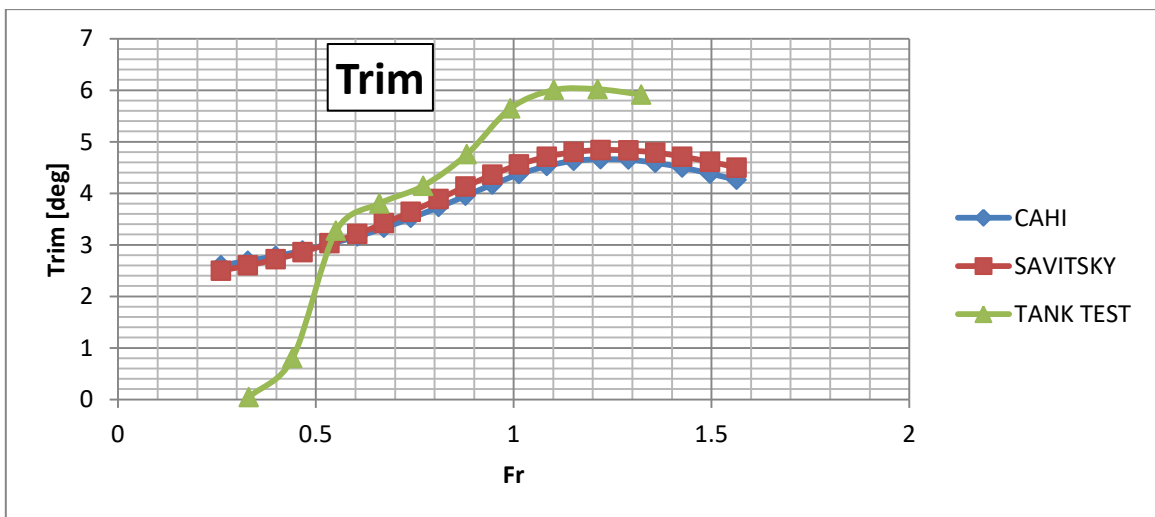
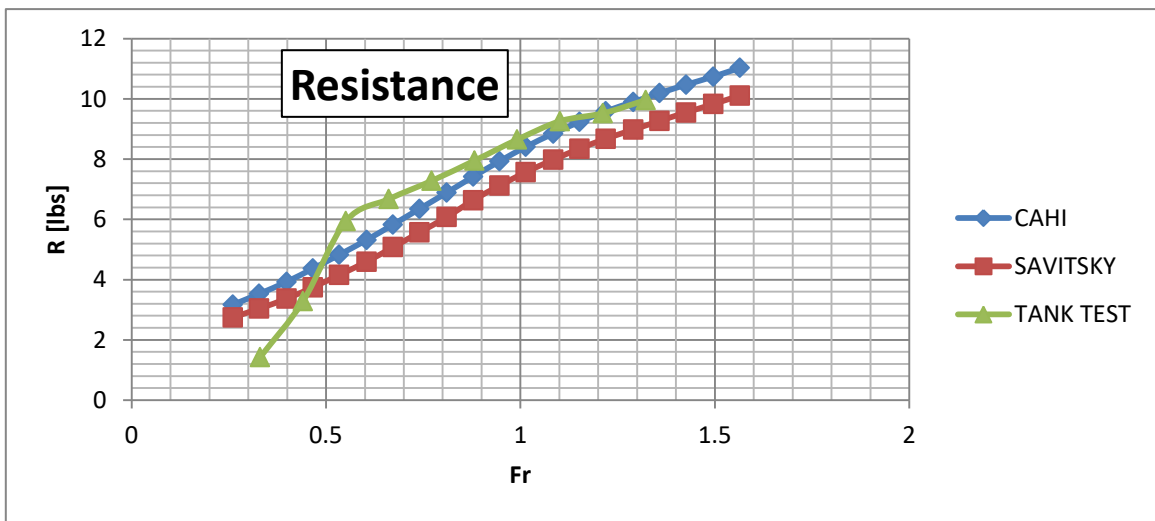
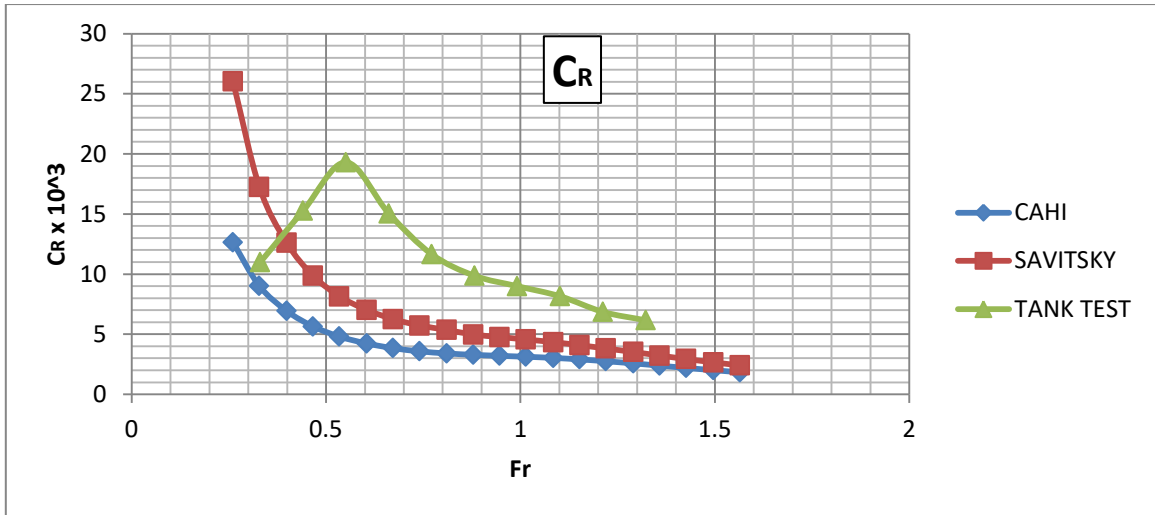
b=25.00 deg Bc=0.37 m Disp=24.75 kp LCG=0.63 m

| ~CAHI~ | | | | | | | ~SAVITSKY~ | | | | | |
|-------------|------------|---------------|------------|-----------------------|-----------------------|------------|------------|---------------|------------|-----------------------|-----------------------|------------|
| Vs [m/s] | Lamda - | Trim [deg] | D/W [%] | Cr 10 ³ | Ct 10 ³ | R [lbs] | Lamda - | Trim [deg] | D/W [%] | Cr 10 ³ | Ct 10 ³ | R [lbs] |
| 1.00 | 10.40 | 3.11 | 0.07 | 17.319 | 20.915 | 3.58 | 5.03 | 3.10 | 0.06 | 35.605 | 39.754 | 3.30 |
| 1.26 | 9.45 | 3.21 | 0.07 | 12.372 | 15.876 | 3.93 | 4.94 | 3.24 | 0.07 | 23.793 | 27.766 | 3.60 |
| 1.53 | 8.70 | 3.34 | 0.08 | 9.571 | 13.007 | 4.33 | 4.83 | 3.41 | 0.07 | 17.560 | 21.404 | 3.96 |
| 1.79 | 8.07 | 3.49 | 0.09 | 7.850 | 11.233 | 4.76 | 4.70 | 3.61 | 0.08 | 13.917 | 17.664 | 4.37 |
| 2.05 | 7.51 | 3.66 | 0.10 | 6.741 | 10.084 | 5.23 | 4.55 | 3.84 | 0.09 | 11.650 | 15.323 | 4.82 |
| 2.32 | 7.00 | 3.87 | 0.10 | 6.013 | 9.326 | 5.73 | 4.47 | 4.10 | 0.10 | 9.975 | 13.576 | 5.33 |
| 2.58 | 6.53 | 4.10 | 0.11 | 5.539 | 8.830 | 6.25 | 4.26 | 4.40 | 0.11 | 9.070 | 12.632 | 5.85 |
| 2.84 | 6.07 | 4.37 | 0.12 | 5.238 | 8.515 | 6.80 | 4.04 | 4.71 | 0.12 | 8.471 | 12.004 | 6.38 |
| 3.11 | 5.65 | 4.66 | 0.13 | 5.052 | 8.321 | 7.35 | 3.81 | 5.03 | 0.13 | 8.048 | 11.562 | 6.91 |
| 3.37 | 5.25 | 4.95 | 0.14 | 4.925 | 8.189 | 7.88 | 3.60 | 5.32 | 0.14 | 7.699 | 11.198 | 7.41 |
| 3.63 | 4.89 | 5.21 | 0.15 | 4.802 | 8.066 | 8.37 | 3.40 | 5.56 | 0.14 | 7.343 | 10.831 | 7.86 |
| 3.89 | 4.57 | 5.40 | 0.16 | 4.641 | 7.903 | 8.80 | 3.23 | 5.73 | 0.15 | 6.936 | 10.412 | 8.24 |
| 4.16 | 4.30 | 5.50 | 0.17 | 4.420 | 7.680 | 9.16 | 3.09 | 5.81 | 0.16 | 6.466 | 9.929 | 8.55 |
| 4.42 | 4.08 | 5.52 | 0.17 | 4.145 | 7.400 | 9.45 | 2.97 | 5.82 | 0.16 | 5.950 | 9.398 | 8.81 |
| 4.68 | 3.89 | 5.47 | 0.18 | 3.834 | 7.083 | 9.68 | 2.88 | 5.77 | 0.17 | 5.415 | 8.845 | 9.03 |
| 4.95 | 3.74 | 5.36 | 0.18 | 3.509 | 6.749 | 9.89 | 2.81 | 5.67 | 0.17 | 4.886 | 8.297 | 9.22 |
| 5.21 | 3.61 | 5.22 | 0.18 | 3.188 | 6.418 | 10.08 | 2.76 | 5.53 | 0.17 | 4.383 | 7.773 | 9.41 |
| 5.47 | 3.50 | 5.06 | 0.19 | 2.883 | 6.102 | 10.27 | 2.72 | 5.38 | 0.18 | 3.917 | 7.286 | 9.60 |
| 5.74 | 3.41 | 4.88 | 0.19 | 2.600 | 5.808 | 10.46 | 2.69 | 5.22 | 0.18 | 3.494 | 6.840 | 9.79 |
| 6.00 | 3.33 | 4.71 | 0.20 | 2.343 | 5.538 | 10.67 | 2.66 | 5.04 | 0.18 | 3.114 | 6.439 | 10.00 |



b=25.00 deg Bc=0.37 m Disp=24.75 kp LCG=0.69 m

| ~CAHI~ | | | | | | | ~SAVITSKY~ | | | | | |
|-------------|------------|---------------|------------|-----------------------|-----------------------|------------|------------|---------------|------------|-----------------------|-----------------------|------------|
| Vs [m/s] | Lamda - | Trim [deg] | D/W [%] | Cr 10 ³ | Ct 10 ³ | R [lbs] | Lamda - | Trim [deg] | D/W [%] | Cr 10 ³ | Ct 10 ³ | R [lbs] |
| 1.00 | 11.90 | 2.60 | 0.06 | 12.640 | 16.146 | 3.17 | 5.54 | 2.50 | 0.05 | 26.020 | 30.088 | 2.75 |
| 1.26 | 10.81 | 2.69 | 0.06 | 9.012 | 12.428 | 3.53 | 5.46 | 2.60 | 0.06 | 17.251 | 21.145 | 3.04 |
| 1.53 | 9.97 | 2.78 | 0.07 | 6.938 | 10.287 | 3.93 | 5.36 | 2.72 | 0.06 | 12.606 | 16.371 | 3.37 |
| 1.79 | 9.26 | 2.89 | 0.08 | 5.647 | 8.945 | 4.37 | 5.24 | 2.86 | 0.07 | 9.872 | 13.540 | 3.75 |
| 2.05 | 8.65 | 3.02 | 0.09 | 4.801 | 8.058 | 4.83 | 5.10 | 3.03 | 0.08 | 8.150 | 11.742 | 4.16 |
| 2.32 | 8.10 | 3.16 | 0.10 | 4.229 | 7.455 | 5.32 | 4.94 | 3.21 | 0.08 | 7.018 | 10.550 | 4.60 |
| 2.58 | 7.59 | 3.33 | 0.11 | 3.840 | 7.041 | 5.83 | 4.77 | 3.42 | 0.09 | 6.254 | 9.739 | 5.08 |
| 2.84 | 7.10 | 3.52 | 0.12 | 3.576 | 6.760 | 6.35 | 4.58 | 3.64 | 0.10 | 5.728 | 9.177 | 5.57 |
| 3.11 | 6.65 | 3.73 | 0.13 | 3.402 | 6.574 | 6.89 | 4.38 | 3.89 | 0.11 | 5.358 | 8.778 | 6.08 |
| 3.37 | 6.21 | 3.95 | 0.14 | 3.287 | 6.452 | 7.42 | 4.28 | 4.13 | 0.12 | 4.975 | 8.361 | 6.64 |
| 3.63 | 5.81 | 4.17 | 0.15 | 3.204 | 6.365 | 7.93 | 4.06 | 4.36 | 0.13 | 4.767 | 8.138 | 7.12 |
| 3.89 | 5.44 | 4.37 | 0.15 | 3.126 | 6.285 | 8.41 | 3.86 | 4.56 | 0.14 | 4.564 | 7.923 | 7.57 |
| 4.16 | 5.11 | 4.53 | 0.16 | 3.030 | 6.189 | 8.85 | 3.69 | 4.71 | 0.15 | 4.341 | 7.690 | 7.98 |
| 4.42 | 4.82 | 4.63 | 0.17 | 2.906 | 6.062 | 9.24 | 3.54 | 4.80 | 0.15 | 4.090 | 7.426 | 8.35 |
| 4.68 | 4.58 | 4.66 | 0.18 | 2.751 | 5.904 | 9.59 | 3.41 | 4.84 | 0.16 | 3.812 | 7.136 | 8.68 |
| 4.95 | 4.38 | 4.65 | 0.18 | 2.574 | 5.722 | 9.90 | 3.31 | 4.83 | 0.16 | 3.520 | 6.829 | 8.98 |
| 5.21 | 4.21 | 4.59 | 0.19 | 2.385 | 5.526 | 10.19 | 3.22 | 4.79 | 0.17 | 3.224 | 6.517 | 9.27 |
| 5.47 | 4.06 | 4.50 | 0.19 | 2.194 | 5.327 | 10.47 | 3.15 | 4.71 | 0.17 | 2.935 | 6.212 | 9.55 |
| 5.74 | 3.94 | 4.38 | 0.20 | 2.008 | 5.132 | 10.74 | 3.10 | 4.61 | 0.18 | 2.661 | 5.920 | 9.83 |
| 6.00 | 3.83 | 4.26 | 0.20 | 1.832 | 4.946 | 11.03 | 3.05 | 4.50 | 0.19 | 2.406 | 5.647 | 10.11 |



Simulation Info:

28/06/2019 02:45:34 pm

Input Data:

Ship Speed: from Vs1=1.00 m/s to Vs2=6.00 m/s (for 20 different Ship Speed values)

Ship Displacement: Disp=8.53 kp

Breadth at Chine: Bc=0.27 m

Deadrise Angle: b=25.00 deg

LCG: from LCG1=0.57 m to LCG2=0.69 m (for 3 different LCG values)

Fresh water properties at 19.50C:

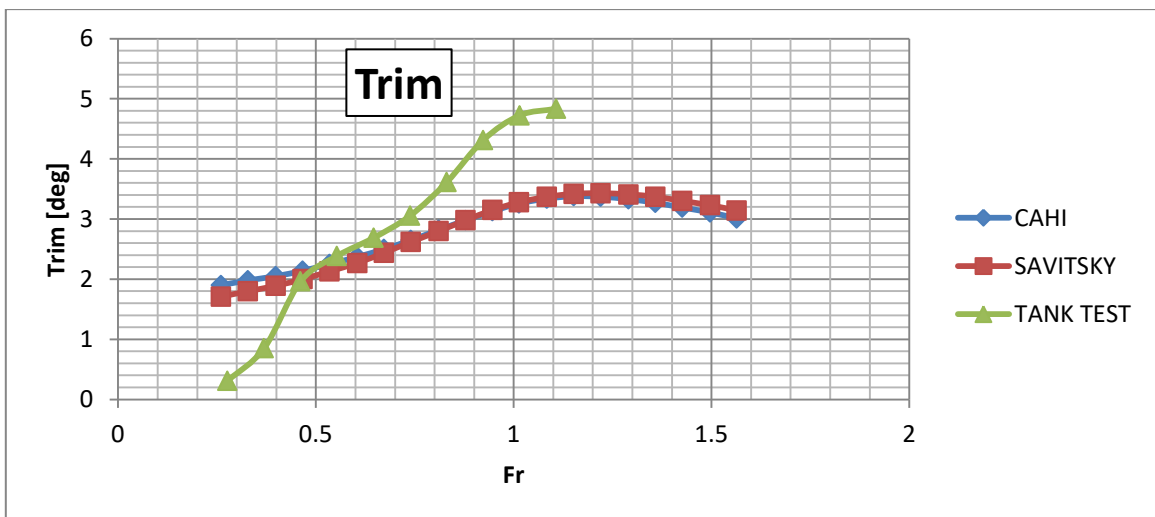
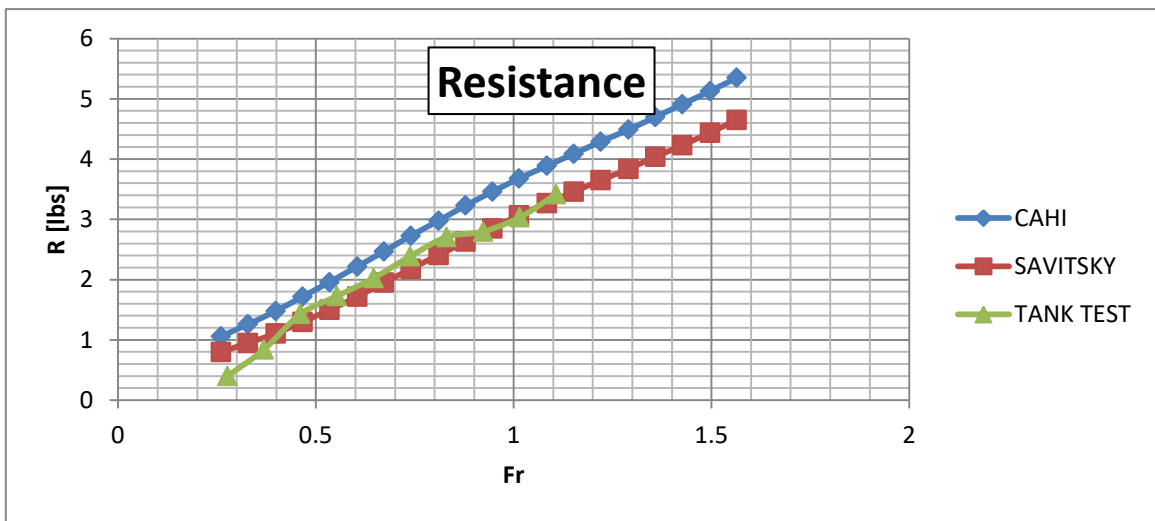
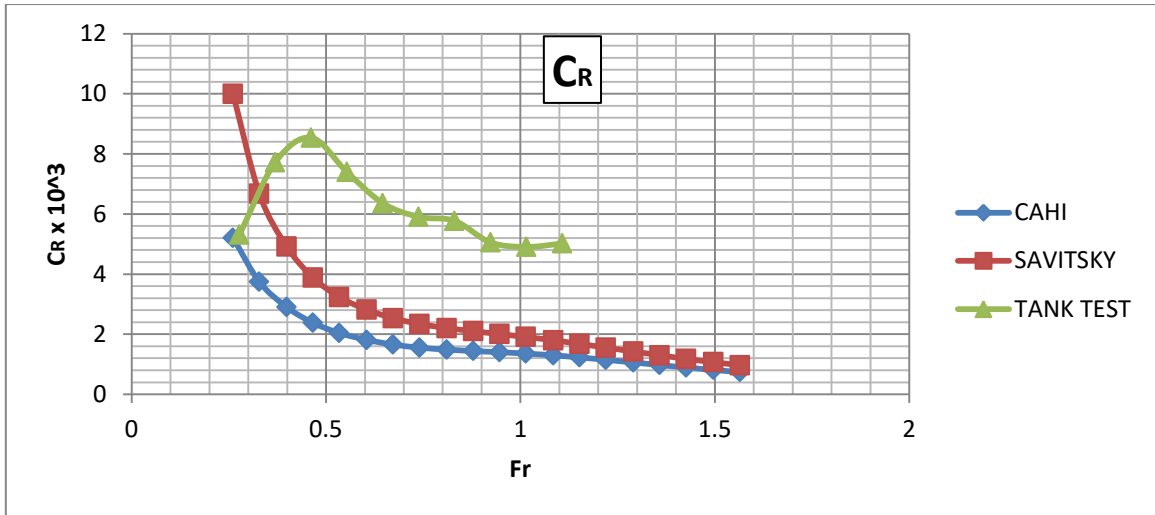
Density=998.20 kg/m³

Viscosity=1.01607*10⁻⁶ m²/s

Results:

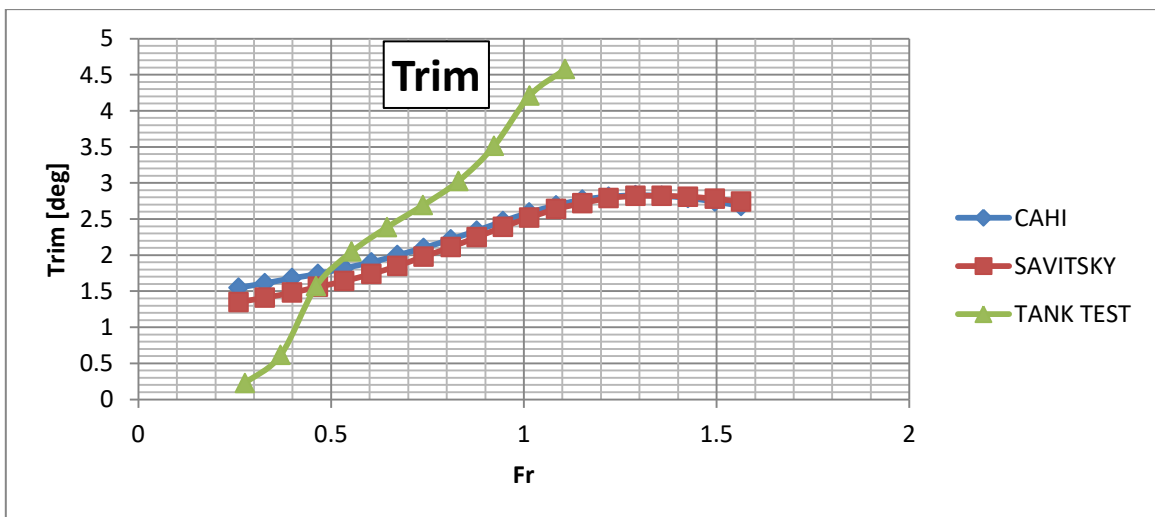
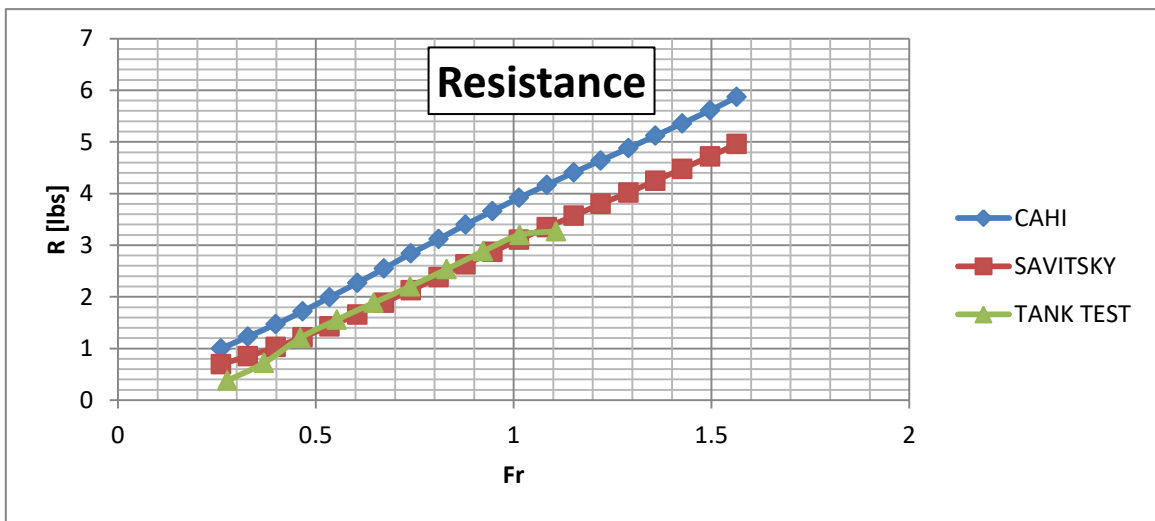
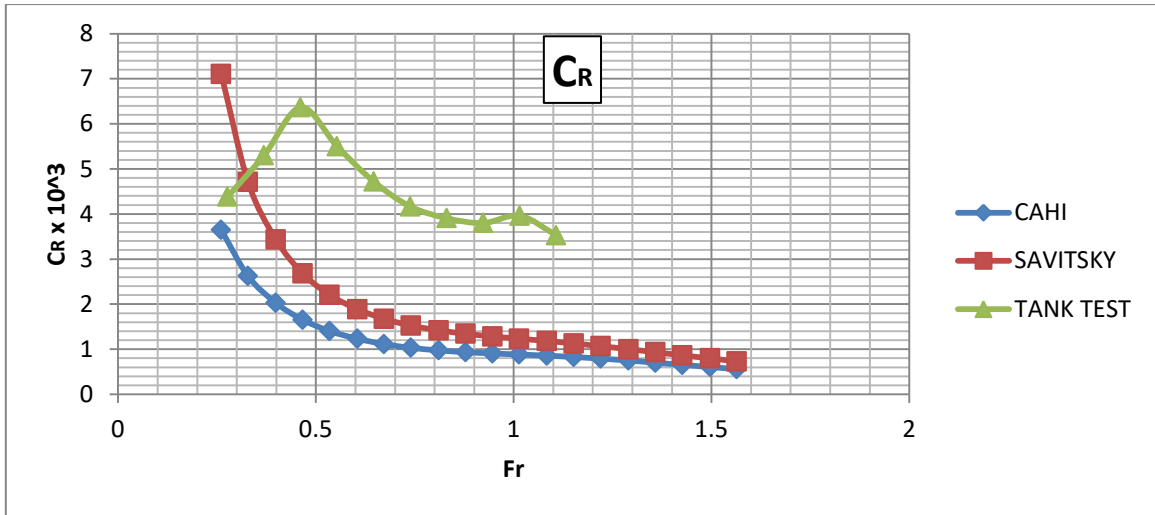
b=25.00 deg Bc=0.27 m Disp=8.53 kp LCG=0.57 m

| ~CAHI~ | | | | | | | ~SAVITSKY~ | | | | | |
|--------|-------|-------|------|-----------------|-----------------|-------|------------|-------|------|-----------------|-----------------|-------|
| Vs | Lamda | Trim | D/W | Cr | Ct | R | Lamda | Trim | D/W | Cr | Ct | R |
| [m/s] | - | [deg] | [%] | 10 ³ | 10 ³ | [lbs] | - | [deg] | [%] | 10 ³ | 10 ³ | [lbs] |
| 1.00 | 13.11 | 1.90 | 0.06 | 5.209 | 8.839 | 1.06 | 6.14 | 1.71 | 0.04 | 9.998 | 14.218 | 0.80 |
| 1.26 | 11.88 | 1.98 | 0.07 | 3.742 | 7.281 | 1.26 | 6.04 | 1.80 | 0.05 | 6.676 | 10.713 | 0.95 |
| 1.53 | 10.93 | 2.05 | 0.08 | 2.902 | 6.372 | 1.48 | 5.92 | 1.89 | 0.06 | 4.917 | 8.820 | 1.11 |
| 1.79 | 10.12 | 2.14 | 0.09 | 2.379 | 5.796 | 1.72 | 5.77 | 2.00 | 0.07 | 3.884 | 7.685 | 1.30 |
| 2.05 | 9.42 | 2.25 | 0.10 | 2.038 | 5.414 | 1.96 | 5.61 | 2.13 | 0.08 | 3.237 | 6.959 | 1.50 |
| 2.32 | 8.79 | 2.37 | 0.12 | 1.810 | 5.155 | 2.22 | 5.42 | 2.27 | 0.09 | 2.814 | 6.476 | 1.72 |
| 2.58 | 8.19 | 2.50 | 0.13 | 1.656 | 4.978 | 2.47 | 5.21 | 2.44 | 0.10 | 2.532 | 6.147 | 1.95 |
| 2.84 | 7.64 | 2.65 | 0.15 | 1.554 | 4.861 | 2.73 | 4.99 | 2.62 | 0.12 | 2.341 | 5.919 | 2.18 |
| 3.11 | 7.11 | 2.82 | 0.16 | 1.487 | 4.784 | 2.98 | 4.76 | 2.80 | 0.13 | 2.205 | 5.756 | 2.41 |
| 3.37 | 6.62 | 2.98 | 0.17 | 1.441 | 4.731 | 3.23 | 4.53 | 2.98 | 0.14 | 2.101 | 5.630 | 2.63 |
| 3.63 | 6.17 | 3.13 | 0.18 | 1.401 | 4.689 | 3.46 | 4.31 | 3.15 | 0.15 | 2.006 | 5.519 | 2.85 |
| 3.89 | 5.77 | 3.26 | 0.20 | 1.356 | 4.642 | 3.68 | 4.11 | 3.28 | 0.16 | 1.908 | 5.406 | 3.07 |
| 4.16 | 5.43 | 3.34 | 0.21 | 1.298 | 4.583 | 3.89 | 3.94 | 3.37 | 0.17 | 1.799 | 5.282 | 3.27 |
| 4.42 | 5.14 | 3.38 | 0.22 | 1.228 | 4.509 | 4.09 | 3.79 | 3.42 | 0.18 | 1.679 | 5.148 | 3.46 |
| 4.68 | 4.90 | 3.37 | 0.23 | 1.147 | 4.422 | 4.29 | 3.66 | 3.43 | 0.19 | 1.553 | 5.006 | 3.65 |
| 4.95 | 4.69 | 3.33 | 0.24 | 1.061 | 4.329 | 4.49 | 3.56 | 3.41 | 0.20 | 1.425 | 4.862 | 3.84 |
| 5.21 | 4.52 | 3.27 | 0.25 | 0.974 | 4.233 | 4.70 | 3.47 | 3.37 | 0.21 | 1.300 | 4.720 | 4.04 |
| 5.47 | 4.38 | 3.19 | 0.26 | 0.890 | 4.139 | 4.91 | 3.39 | 3.30 | 0.23 | 1.181 | 4.583 | 4.23 |
| 5.74 | 4.25 | 3.11 | 0.27 | 0.811 | 4.049 | 5.13 | 3.33 | 3.23 | 0.24 | 1.070 | 4.455 | 4.44 |
| 6.00 | 4.15 | 3.01 | 0.28 | 0.738 | 3.965 | 5.35 | 3.28 | 3.14 | 0.25 | 0.968 | 4.335 | 4.65 |



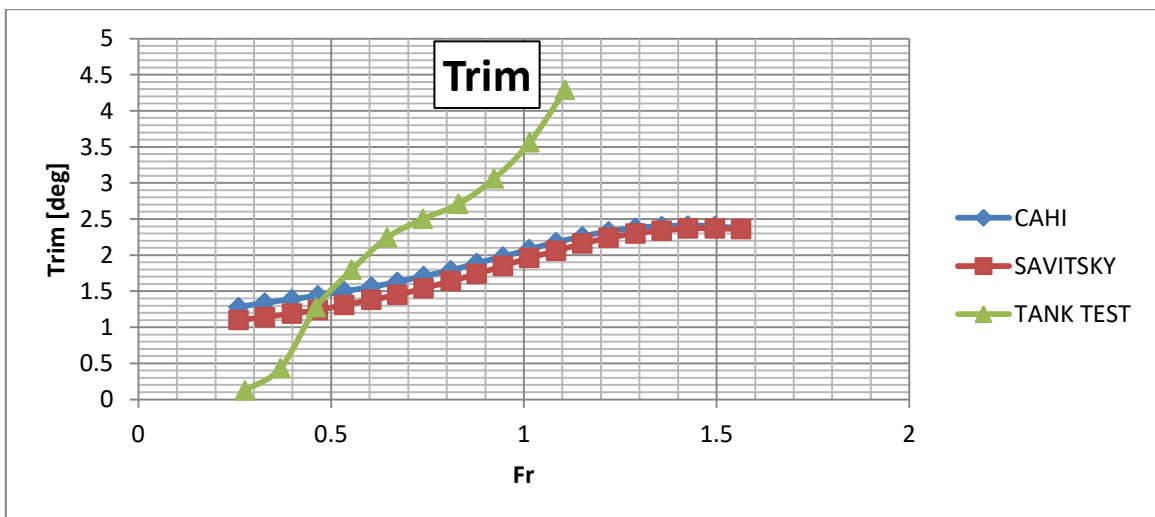
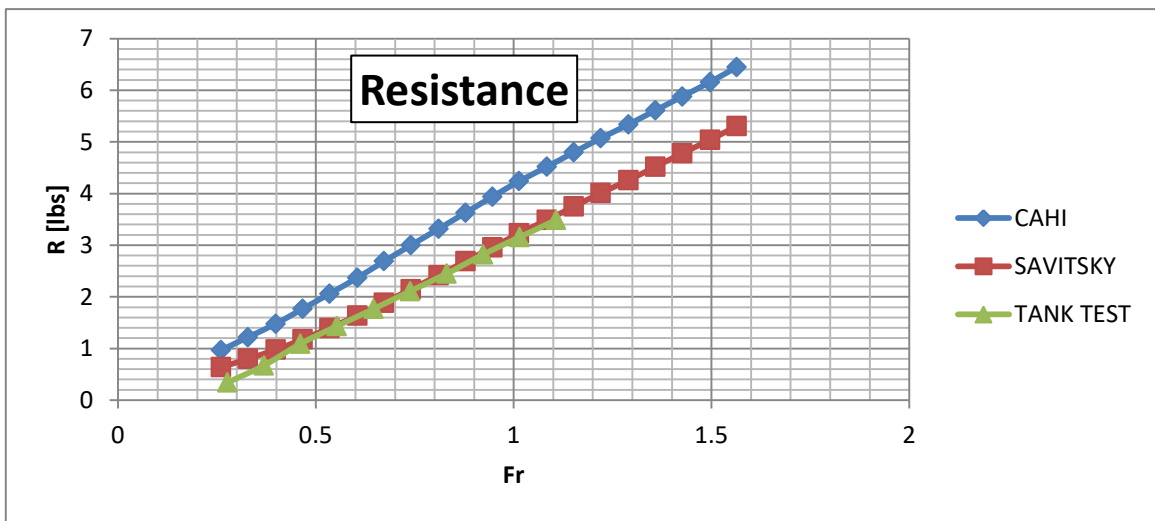
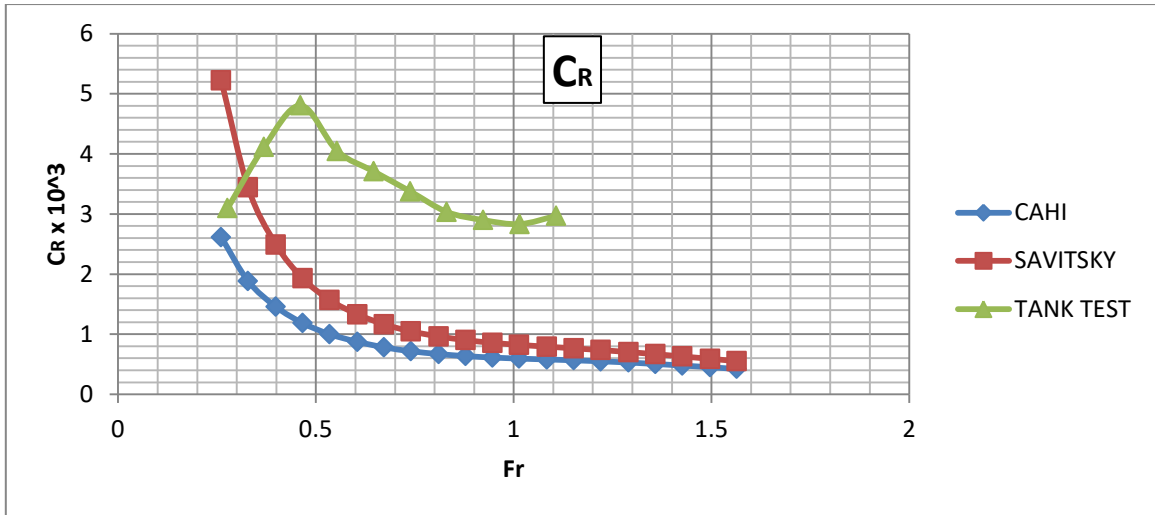
b=25.00 deg Bc=0.27 m Disp=8.53 kp LCG=0.63 m

| ~CAHI~ | | | | | | | ~SAVITSKY~ | | | | | |
|-------------|------------|---------------|------------|-----------------------|-----------------------|------------|------------|---------------|------------|-----------------------|-----------------------|------------|
| Vs [m/s] | Lamda - | Trim [deg] | D/W [%] | Cr 10 ³ | Ct 10 ³ | R [lbs] | Lamda - | Trim [deg] | D/W [%] | Cr 10 ³ | Ct 10 ³ | R [lbs] |
| 1.00 | 15.26 | 1.55 | 0.05 | 3.646 | 7.174 | 1.00 | 6.82 | 1.35 | 0.04 | 7.107 | 11.236 | 0.70 |
| 1.26 | 13.83 | 1.61 | 0.07 | 2.622 | 6.061 | 1.23 | 6.73 | 1.41 | 0.05 | 4.710 | 8.659 | 0.85 |
| 1.53 | 12.73 | 1.68 | 0.08 | 2.027 | 5.399 | 1.47 | 6.62 | 1.48 | 0.05 | 3.436 | 7.253 | 1.03 |
| 1.79 | 11.82 | 1.74 | 0.09 | 1.653 | 4.973 | 1.72 | 6.49 | 1.56 | 0.06 | 2.683 | 6.398 | 1.22 |
| 2.05 | 11.04 | 1.82 | 0.11 | 1.404 | 4.683 | 1.99 | 6.34 | 1.64 | 0.08 | 2.206 | 5.841 | 1.43 |
| 2.32 | 10.33 | 1.90 | 0.12 | 1.233 | 4.480 | 2.27 | 6.16 | 1.74 | 0.09 | 1.889 | 5.461 | 1.66 |
| 2.58 | 9.69 | 2.00 | 0.14 | 1.114 | 4.336 | 2.55 | 5.97 | 1.85 | 0.10 | 1.674 | 5.195 | 1.89 |
| 2.84 | 9.08 | 2.10 | 0.15 | 1.032 | 4.234 | 2.84 | 5.76 | 1.98 | 0.11 | 1.524 | 5.005 | 2.13 |
| 3.11 | 8.51 | 2.22 | 0.17 | 0.974 | 4.164 | 3.12 | 5.54 | 2.11 | 0.13 | 1.419 | 4.868 | 2.38 |
| 3.37 | 7.97 | 2.34 | 0.18 | 0.935 | 4.116 | 3.40 | 5.31 | 2.25 | 0.14 | 1.343 | 4.767 | 2.63 |
| 3.63 | 7.47 | 2.47 | 0.19 | 0.907 | 4.082 | 3.66 | 5.08 | 2.39 | 0.15 | 1.285 | 4.689 | 2.87 |
| 3.89 | 7.00 | 2.59 | 0.21 | 0.883 | 4.056 | 3.92 | 4.86 | 2.52 | 0.17 | 1.234 | 4.623 | 3.11 |
| 4.16 | 6.58 | 2.69 | 0.22 | 0.858 | 4.029 | 4.17 | 4.65 | 2.64 | 0.18 | 1.183 | 4.559 | 3.35 |
| 4.42 | 6.21 | 2.77 | 0.23 | 0.828 | 3.998 | 4.41 | 4.46 | 2.72 | 0.19 | 1.128 | 4.492 | 3.57 |
| 4.68 | 5.89 | 2.81 | 0.25 | 0.792 | 3.959 | 4.64 | 4.30 | 2.79 | 0.20 | 1.068 | 4.419 | 3.80 |
| 4.95 | 5.61 | 2.83 | 0.26 | 0.749 | 3.912 | 4.88 | 4.16 | 2.82 | 0.21 | 1.002 | 4.341 | 4.02 |
| 5.21 | 5.38 | 2.82 | 0.27 | 0.702 | 3.860 | 5.12 | 4.03 | 2.82 | 0.23 | 0.934 | 4.259 | 4.25 |
| 5.47 | 5.18 | 2.79 | 0.28 | 0.653 | 3.805 | 5.36 | 3.93 | 2.81 | 0.24 | 0.865 | 4.176 | 4.48 |
| 5.74 | 5.01 | 2.74 | 0.30 | 0.605 | 3.749 | 5.61 | 3.84 | 2.78 | 0.25 | 0.797 | 4.094 | 4.72 |
| 6.00 | 4.86 | 2.68 | 0.31 | 0.558 | 3.693 | 5.87 | 3.76 | 2.74 | 0.26 | 0.732 | 4.014 | 4.96 |



b=25.00 deg Bc=0.27 m Disp=8.53 kp LCG=0.69 m

| ~CAHI~ | | | | | | | ~SAVITSKY~ | | | | | |
|-------------|------------|---------------|------------|-----------------------|-----------------------|------------|------------|---------------|------------|-----------------------|-----------------------|------------|
| Vs [m/s] | Lamda - | Trim [deg] | D/W [%] | Cr 10 ³ | Ct 10 ³ | R [lbs] | Lamda - | Trim [deg] | D/W [%] | Cr 10 ³ | Ct 10 ³ | R [lbs] |
| 1.00 | 17.54 | 1.28 | 0.05 | 2.614 | 6.050 | 0.97 | 7.50 | 1.10 | 0.03 | 5.224 | 9.274 | 0.64 |
| 1.26 | 15.90 | 1.34 | 0.06 | 1.885 | 5.236 | 1.22 | 7.41 | 1.14 | 0.04 | 3.442 | 7.316 | 0.80 |
| 1.53 | 14.64 | 1.39 | 0.08 | 1.457 | 4.744 | 1.48 | 7.31 | 1.19 | 0.05 | 2.493 | 6.236 | 0.98 |
| 1.79 | 13.61 | 1.44 | 0.09 | 1.185 | 4.420 | 1.77 | 7.19 | 1.24 | 0.06 | 1.930 | 5.572 | 1.18 |
| 2.05 | 12.74 | 1.50 | 0.11 | 1.001 | 4.196 | 2.06 | 7.06 | 1.31 | 0.07 | 1.571 | 5.132 | 1.40 |
| 2.32 | 11.96 | 1.56 | 0.13 | 0.874 | 4.036 | 2.37 | 6.90 | 1.38 | 0.09 | 1.331 | 4.827 | 1.64 |
| 2.58 | 11.25 | 1.63 | 0.14 | 0.782 | 3.918 | 2.69 | 6.72 | 1.45 | 0.10 | 1.164 | 4.608 | 1.89 |
| 2.84 | 10.60 | 1.71 | 0.16 | 0.717 | 3.832 | 3.00 | 6.53 | 1.54 | 0.11 | 1.047 | 4.447 | 2.15 |
| 3.11 | 9.99 | 1.79 | 0.18 | 0.670 | 3.769 | 3.32 | 6.32 | 1.64 | 0.13 | 0.963 | 4.328 | 2.42 |
| 3.37 | 9.40 | 1.89 | 0.19 | 0.636 | 3.724 | 3.63 | 6.10 | 1.74 | 0.14 | 0.902 | 4.239 | 2.69 |
| 3.63 | 8.85 | 1.98 | 0.21 | 0.612 | 3.693 | 3.94 | 5.87 | 1.85 | 0.16 | 0.857 | 4.172 | 2.96 |
| 3.89 | 8.33 | 2.08 | 0.23 | 0.595 | 3.670 | 4.24 | 5.64 | 1.96 | 0.17 | 0.822 | 4.120 | 3.23 |
| 4.16 | 7.84 | 2.18 | 0.24 | 0.580 | 3.653 | 4.52 | 5.41 | 2.06 | 0.19 | 0.793 | 4.076 | 3.49 |
| 4.42 | 7.40 | 2.26 | 0.26 | 0.566 | 3.637 | 4.80 | 5.20 | 2.16 | 0.20 | 0.765 | 4.035 | 3.75 |
| 4.68 | 7.00 | 2.33 | 0.27 | 0.549 | 3.619 | 5.07 | 5.00 | 2.24 | 0.21 | 0.736 | 3.995 | 4.01 |
| 4.95 | 6.66 | 2.38 | 0.28 | 0.529 | 3.597 | 5.34 | 4.82 | 2.30 | 0.23 | 0.703 | 3.952 | 4.26 |
| 5.21 | 6.35 | 2.40 | 0.30 | 0.505 | 3.571 | 5.61 | 4.66 | 2.34 | 0.24 | 0.668 | 3.906 | 4.52 |
| 5.47 | 6.09 | 2.41 | 0.31 | 0.479 | 3.541 | 5.88 | 4.52 | 2.37 | 0.25 | 0.630 | 3.857 | 4.78 |
| 5.74 | 5.87 | 2.40 | 0.33 | 0.451 | 3.507 | 6.16 | 4.41 | 2.37 | 0.27 | 0.591 | 3.806 | 5.04 |
| 6.00 | 5.67 | 2.37 | 0.34 | 0.422 | 3.473 | 6.45 | 4.30 | 2.36 | 0.28 | 0.552 | 3.755 | 5.31 |



Simulation Info:

 28/06/2019 02:45:47 pm

Input Data:

 Ship Speed: from Vs1=1.00 m/s to Vs2=6.00 m/s (for 20 different Ship Speed values)

Ship Displacement: Disp=11.41 kp

Breadth at Chine: Bc=0.27 m

Deadrise Angle: b=25.00 deg

LCG: from LCG1=0.57 m to LCG2=0.69 m (for 3 different LCG values)

Fresh water properties at 19.00C:

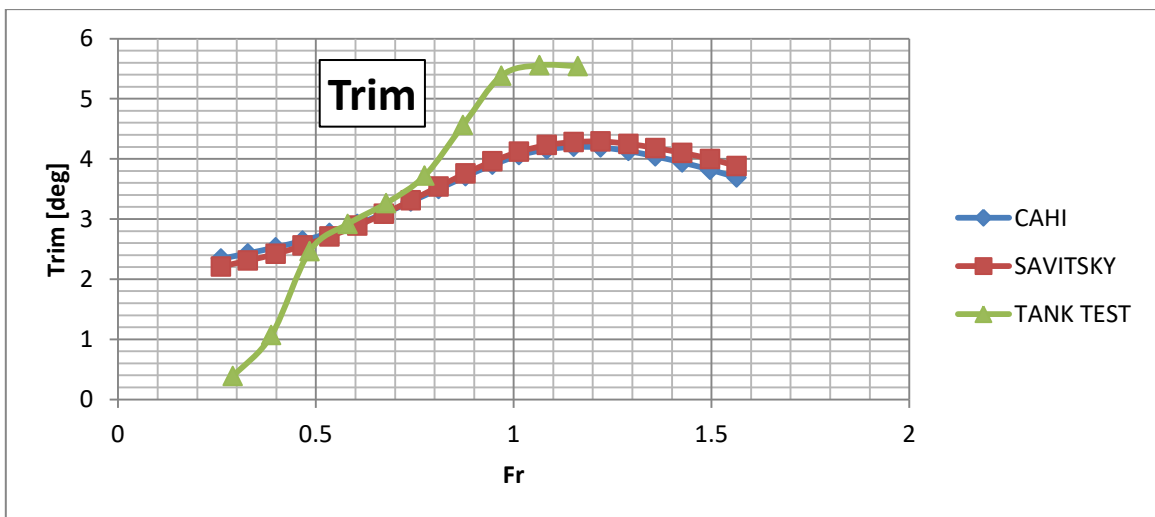
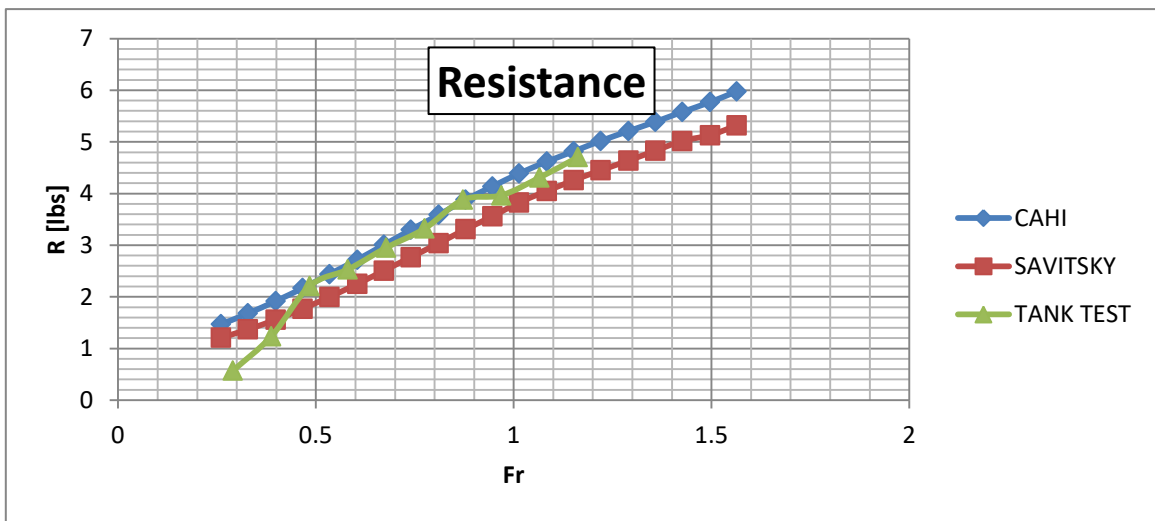
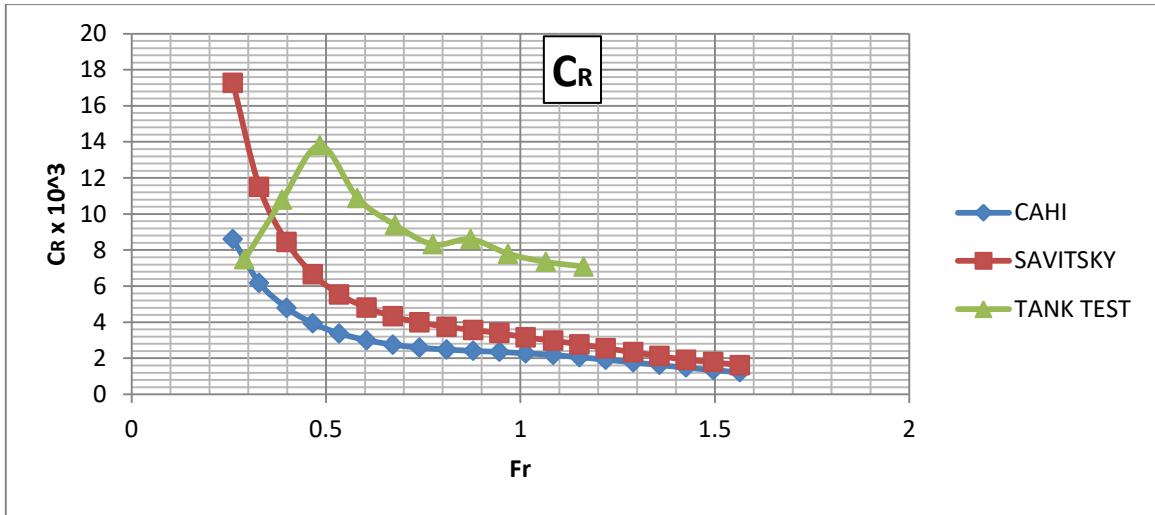
Density=998.30 kg/m³

Viscosity=1.02865*10⁻⁶ m²/s

Results:

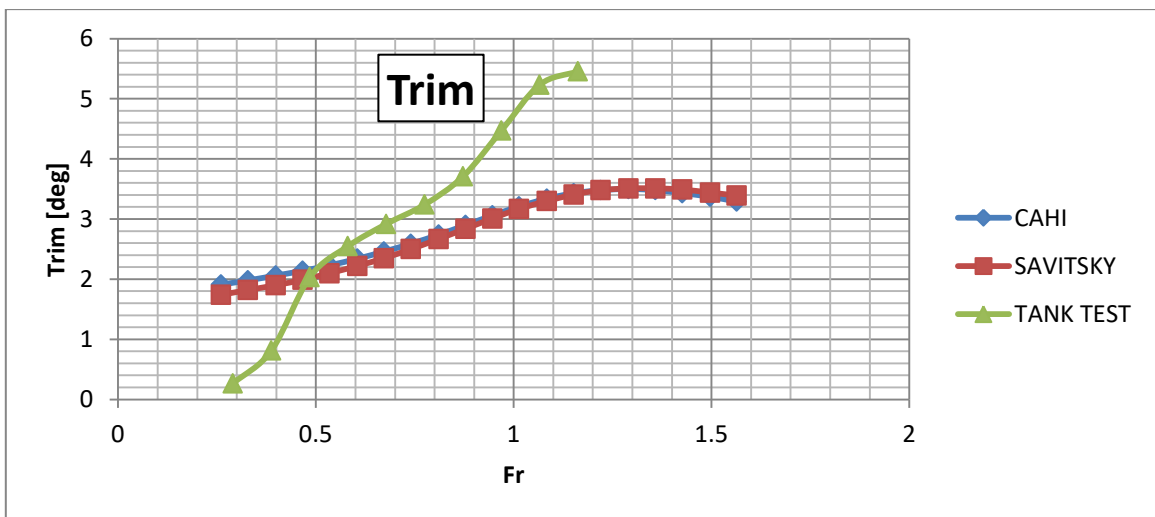
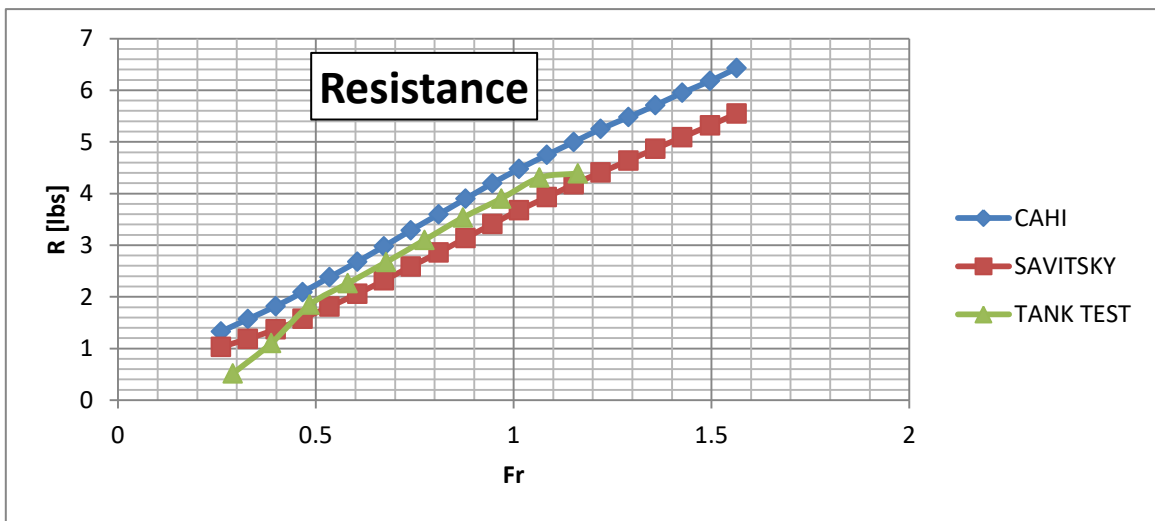
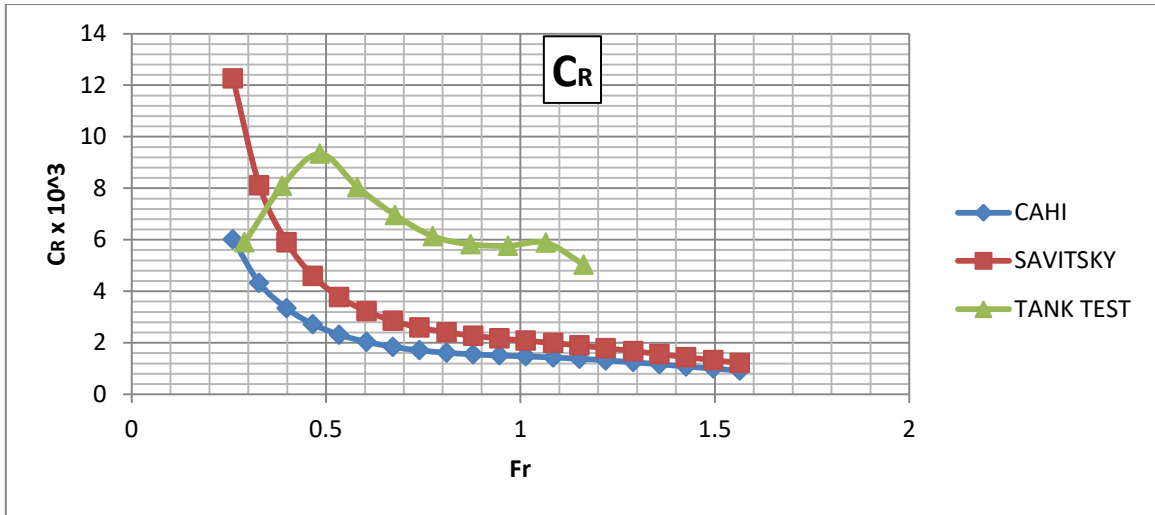
 b=25.00 deg Bc=0.27 m Disp=11.41 kp LCG=0.57 m

| ~CAHI~ | | | | | | | ~SAVITSKY~ | | | | | |
|--------|-------|-------|------|-----------------|-----------------|-------|------------|-------|------|-----------------|-----------------|-------|
| Vs | Lamda | Trim | D/W | Cr | Ct | R | Lamda | Trim | D/W | Cr | Ct | R |
| [m/s] | - | [deg] | [%] | 10 ³ | 10 ³ | [lbs] | - | [deg] | [%] | 10 ³ | 10 ³ | [lbs] |
| 1.00 | 13.11 | 2.34 | 0.06 | 8.600 | 12.240 | 1.47 | 6.14 | 2.21 | 0.05 | 17.260 | 21.491 | 1.21 |
| 1.26 | 11.88 | 2.43 | 0.07 | 6.176 | 9.723 | 1.68 | 6.04 | 2.31 | 0.05 | 11.498 | 15.545 | 1.37 |
| 1.53 | 10.93 | 2.53 | 0.08 | 4.791 | 8.269 | 1.92 | 5.92 | 2.42 | 0.06 | 8.449 | 12.362 | 1.56 |
| 1.79 | 10.12 | 2.64 | 0.09 | 3.932 | 7.358 | 2.17 | 5.77 | 2.56 | 0.07 | 6.659 | 10.471 | 1.77 |
| 2.05 | 9.42 | 2.77 | 0.10 | 3.373 | 6.758 | 2.44 | 5.61 | 2.71 | 0.08 | 5.537 | 9.270 | 2.00 |
| 2.32 | 8.79 | 2.92 | 0.11 | 3.001 | 6.354 | 2.72 | 5.42 | 2.89 | 0.09 | 4.805 | 8.477 | 2.25 |
| 2.58 | 8.19 | 3.09 | 0.12 | 2.753 | 6.083 | 3.01 | 5.21 | 3.09 | 0.10 | 4.316 | 7.940 | 2.51 |
| 2.84 | 7.64 | 3.29 | 0.13 | 2.589 | 5.904 | 3.30 | 4.99 | 3.31 | 0.11 | 3.982 | 7.570 | 2.77 |
| 3.11 | 7.11 | 3.50 | 0.14 | 2.483 | 5.788 | 3.59 | 4.76 | 3.54 | 0.12 | 3.745 | 7.305 | 3.04 |
| 3.37 | 6.62 | 3.71 | 0.15 | 2.410 | 5.709 | 3.88 | 4.53 | 3.76 | 0.13 | 3.561 | 7.100 | 3.31 |
| 3.63 | 6.17 | 3.90 | 0.16 | 2.347 | 5.644 | 4.14 | 4.31 | 3.96 | 0.14 | 3.395 | 6.917 | 3.56 |
| 3.89 | 5.77 | 4.06 | 0.17 | 2.273 | 5.569 | 4.39 | 4.20 | 4.12 | 0.15 | 3.153 | 6.646 | 3.83 |
| 4.16 | 5.43 | 4.16 | 0.18 | 2.177 | 5.471 | 4.62 | 4.02 | 4.23 | 0.16 | 2.972 | 6.451 | 4.05 |
| 4.42 | 5.14 | 4.20 | 0.19 | 2.057 | 5.347 | 4.82 | 3.87 | 4.28 | 0.17 | 2.770 | 6.235 | 4.26 |
| 4.68 | 4.90 | 4.19 | 0.20 | 1.919 | 5.203 | 5.02 | 3.74 | 4.29 | 0.18 | 2.554 | 6.004 | 4.45 |
| 4.95 | 4.69 | 4.13 | 0.21 | 1.771 | 5.048 | 5.21 | 3.64 | 4.25 | 0.18 | 2.336 | 5.768 | 4.64 |
| 5.21 | 4.52 | 4.04 | 0.21 | 1.621 | 4.890 | 5.39 | 3.55 | 4.18 | 0.19 | 2.121 | 5.536 | 4.83 |
| 5.47 | 4.38 | 3.94 | 0.22 | 1.477 | 4.735 | 5.58 | 3.49 | 4.10 | 0.20 | 1.918 | 5.313 | 5.02 |
| 5.74 | 4.25 | 3.82 | 0.23 | 1.341 | 4.589 | 5.77 | 3.33 | 4.00 | 0.20 | 1.782 | 5.176 | 5.13 |
| 6.00 | 4.15 | 3.69 | 0.24 | 1.216 | 4.452 | 5.98 | 3.28 | 3.88 | 0.21 | 1.609 | 4.985 | 5.32 |



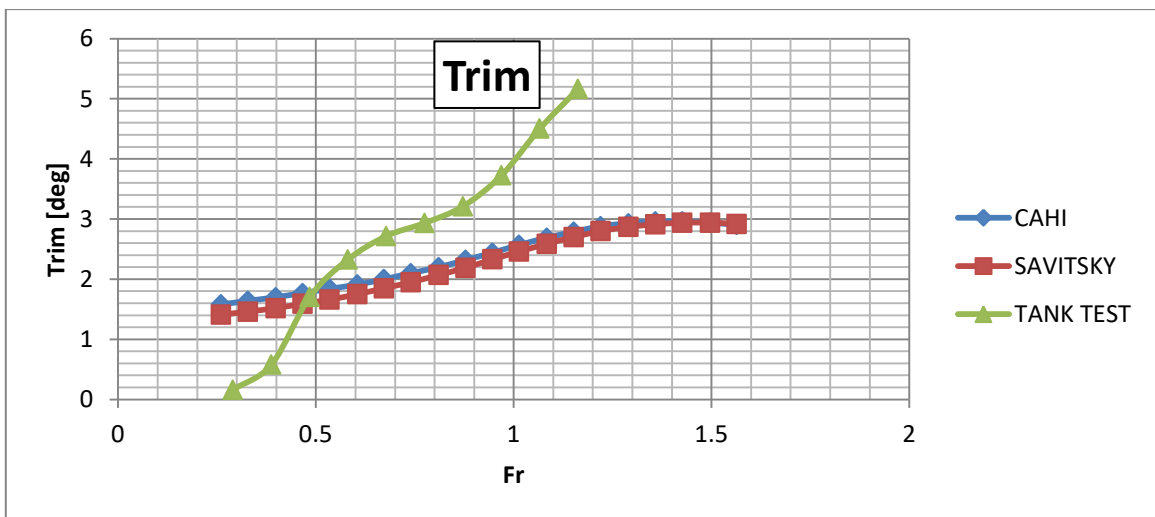
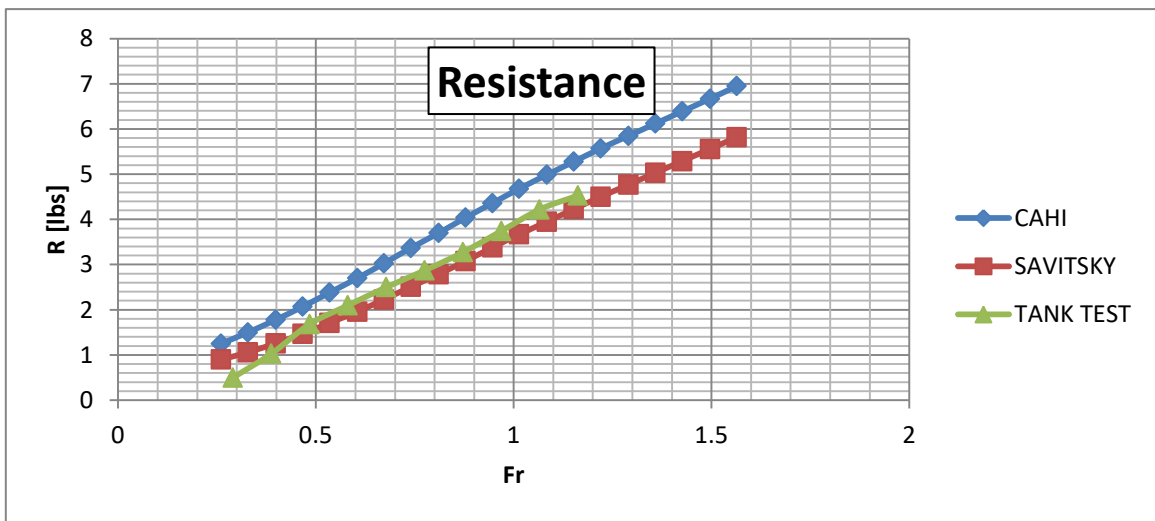
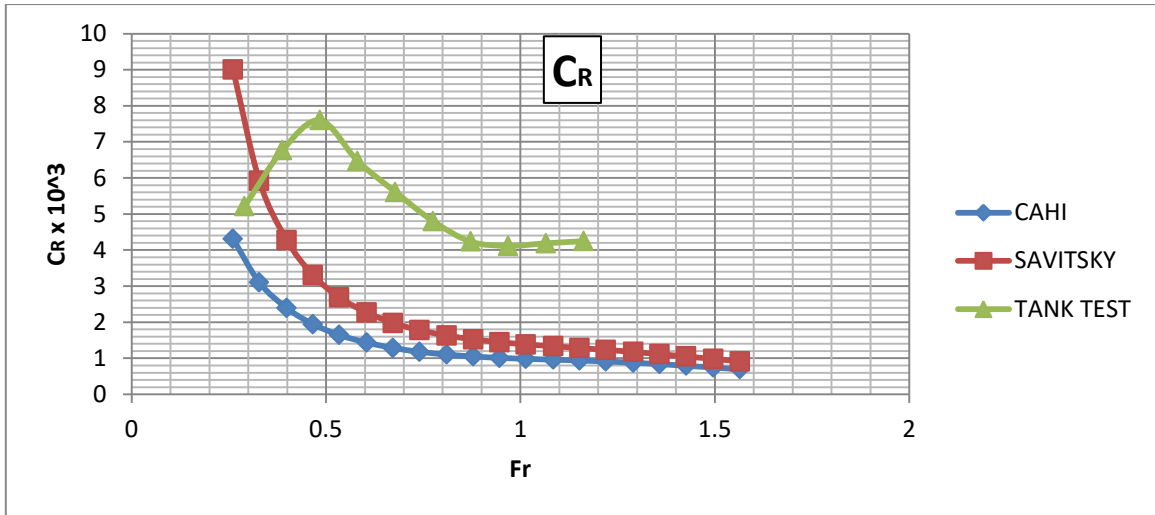
b=25.00 deg Bc=0.27 m Disp=11.41 kp LCG=0.63 m

| ~CAHI~ | | | | | | | ~SAVITSKY~ | | | | | |
|-------------|------------|---------------|------------|-----------------------|-----------------------|------------|------------|---------------|------------|-----------------------|-----------------------|------------|
| Vs [m/s] | Lamda - | Trim [deg] | D/W [%] | Cr 10 ³ | Ct 10 ³ | R [lbs] | Lamda - | Trim [deg] | D/W [%] | Cr 10 ³ | Ct 10 ³ | R [lbs] |
| 1.00 | 15.26 | 1.91 | 0.05 | 6.012 | 9.548 | 1.33 | 6.82 | 1.74 | 0.04 | 12.261 | 16.401 | 1.03 |
| 1.26 | 13.83 | 1.98 | 0.06 | 4.315 | 7.762 | 1.57 | 6.73 | 1.82 | 0.05 | 8.105 | 12.065 | 1.19 |
| 1.53 | 12.73 | 2.06 | 0.07 | 3.335 | 6.716 | 1.82 | 6.62 | 1.90 | 0.05 | 5.898 | 9.726 | 1.37 |
| 1.79 | 11.82 | 2.14 | 0.08 | 2.720 | 6.048 | 2.09 | 6.49 | 1.99 | 0.06 | 4.595 | 8.320 | 1.58 |
| 2.05 | 11.04 | 2.23 | 0.09 | 2.312 | 5.599 | 2.38 | 6.34 | 2.10 | 0.07 | 3.770 | 7.415 | 1.81 |
| 2.32 | 10.33 | 2.34 | 0.11 | 2.034 | 5.288 | 2.68 | 6.16 | 2.22 | 0.08 | 3.223 | 6.803 | 2.06 |
| 2.58 | 9.69 | 2.46 | 0.12 | 1.840 | 5.070 | 2.98 | 5.97 | 2.35 | 0.09 | 2.849 | 6.379 | 2.32 |
| 2.84 | 9.08 | 2.59 | 0.13 | 1.706 | 4.917 | 3.29 | 5.76 | 2.50 | 0.10 | 2.590 | 6.079 | 2.59 |
| 3.11 | 8.51 | 2.74 | 0.14 | 1.614 | 4.812 | 3.60 | 5.54 | 2.67 | 0.11 | 2.406 | 5.864 | 2.86 |
| 3.37 | 7.97 | 2.90 | 0.16 | 1.552 | 4.740 | 3.90 | 5.31 | 2.84 | 0.12 | 2.273 | 5.706 | 3.14 |
| 3.63 | 7.47 | 3.06 | 0.17 | 1.507 | 4.691 | 4.20 | 5.08 | 3.01 | 0.14 | 2.170 | 5.583 | 3.41 |
| 3.89 | 7.00 | 3.21 | 0.18 | 1.470 | 4.651 | 4.48 | 4.86 | 3.17 | 0.15 | 2.080 | 5.478 | 3.68 |
| 4.16 | 6.58 | 3.34 | 0.19 | 1.430 | 4.609 | 4.75 | 4.65 | 3.30 | 0.16 | 1.991 | 5.376 | 3.93 |
| 4.42 | 6.21 | 3.43 | 0.20 | 1.380 | 4.558 | 5.00 | 4.46 | 3.41 | 0.17 | 1.895 | 5.268 | 4.18 |
| 4.68 | 5.89 | 3.48 | 0.21 | 1.318 | 4.494 | 5.25 | 4.30 | 3.48 | 0.18 | 1.790 | 5.150 | 4.41 |
| 4.95 | 5.61 | 3.50 | 0.22 | 1.245 | 4.417 | 5.48 | 4.16 | 3.51 | 0.18 | 1.677 | 5.025 | 4.64 |
| 5.21 | 5.38 | 3.48 | 0.23 | 1.165 | 4.332 | 5.71 | 4.03 | 3.51 | 0.19 | 1.560 | 4.894 | 4.87 |
| 5.47 | 5.18 | 3.43 | 0.24 | 1.082 | 4.242 | 5.95 | 3.93 | 3.49 | 0.20 | 1.442 | 4.761 | 5.09 |
| 5.74 | 5.01 | 3.37 | 0.25 | 0.999 | 4.151 | 6.18 | 3.84 | 3.44 | 0.21 | 1.326 | 4.631 | 5.32 |
| 6.00 | 4.86 | 3.29 | 0.26 | 0.918 | 4.062 | 6.43 | 3.76 | 3.39 | 0.22 | 1.215 | 4.506 | 5.55 |



b=25.00 deg Bc=0.27 m Disp=11.41 kp LCG=0.69 m

| ~CAHI~ | | | | | | | ~SAVITSKY~ | | | | | |
|-------------|------------|---------------|------------|-----------------------|-----------------------|------------|------------|---------------|------------|-----------------------|-----------------------|------------|
| Vs [m/s] | Lamda - | Trim [deg] | D/W [%] | Cr 10 ³ | Ct 10 ³ | R [lbs] | Lamda - | Trim [deg] | D/W [%] | Cr 10 ³ | Ct 10 ³ | R [lbs] |
| 1.00 | 17.54 | 1.58 | 0.05 | 4.311 | 7.756 | 1.25 | 7.50 | 1.41 | 0.04 | 9.008 | 13.069 | 0.90 |
| 1.26 | 15.90 | 1.64 | 0.06 | 3.100 | 6.459 | 1.50 | 7.41 | 1.46 | 0.04 | 5.921 | 9.805 | 1.06 |
| 1.53 | 14.64 | 1.70 | 0.07 | 2.393 | 5.687 | 1.78 | 7.31 | 1.52 | 0.05 | 4.278 | 8.031 | 1.26 |
| 1.79 | 13.61 | 1.77 | 0.08 | 1.944 | 5.188 | 2.07 | 7.19 | 1.59 | 0.06 | 3.305 | 6.956 | 1.47 |
| 2.05 | 12.74 | 1.84 | 0.09 | 1.644 | 4.846 | 2.38 | 7.06 | 1.66 | 0.07 | 2.684 | 6.254 | 1.71 |
| 2.32 | 11.96 | 1.91 | 0.11 | 1.434 | 4.604 | 2.70 | 6.90 | 1.75 | 0.08 | 2.268 | 5.773 | 1.96 |
| 2.58 | 11.25 | 2.00 | 0.12 | 1.286 | 4.429 | 3.03 | 6.72 | 1.85 | 0.09 | 1.980 | 5.432 | 2.23 |
| 2.84 | 10.60 | 2.10 | 0.13 | 1.179 | 4.302 | 3.37 | 6.53 | 1.95 | 0.10 | 1.777 | 5.185 | 2.51 |
| 3.11 | 9.99 | 2.20 | 0.15 | 1.103 | 4.210 | 3.70 | 6.32 | 2.07 | 0.11 | 1.631 | 5.004 | 2.79 |
| 3.37 | 9.40 | 2.32 | 0.16 | 1.049 | 4.145 | 4.04 | 6.10 | 2.19 | 0.12 | 1.525 | 4.870 | 3.08 |
| 3.63 | 8.85 | 2.44 | 0.17 | 1.012 | 4.099 | 4.36 | 5.87 | 2.33 | 0.13 | 1.446 | 4.769 | 3.38 |
| 3.89 | 8.33 | 2.57 | 0.19 | 0.984 | 4.067 | 4.68 | 5.64 | 2.46 | 0.15 | 1.385 | 4.690 | 3.67 |
| 4.16 | 7.84 | 2.69 | 0.20 | 0.961 | 4.041 | 4.99 | 5.41 | 2.59 | 0.16 | 1.333 | 4.624 | 3.95 |
| 4.42 | 7.40 | 2.79 | 0.21 | 0.937 | 4.016 | 5.28 | 5.20 | 2.70 | 0.17 | 1.283 | 4.562 | 4.23 |
| 4.68 | 7.00 | 2.88 | 0.22 | 0.910 | 3.987 | 5.57 | 5.00 | 2.80 | 0.18 | 1.232 | 4.499 | 4.50 |
| 4.95 | 6.66 | 2.93 | 0.23 | 0.876 | 3.952 | 5.85 | 4.82 | 2.87 | 0.19 | 1.176 | 4.432 | 4.77 |
| 5.21 | 6.35 | 2.96 | 0.24 | 0.836 | 3.909 | 6.12 | 4.66 | 2.91 | 0.20 | 1.114 | 4.361 | 5.03 |
| 5.47 | 6.09 | 2.96 | 0.25 | 0.791 | 3.860 | 6.39 | 4.52 | 2.94 | 0.21 | 1.049 | 4.284 | 5.29 |
| 5.74 | 5.87 | 2.94 | 0.26 | 0.743 | 3.807 | 6.67 | 4.41 | 2.94 | 0.22 | 0.982 | 4.205 | 5.56 |
| 6.00 | 5.67 | 2.90 | 0.28 | 0.694 | 3.752 | 6.95 | 4.30 | 2.92 | 0.23 | 0.915 | 4.126 | 5.82 |



Simulation Info:

28/06/2019 02:46:00 pm

Input Data:

Ship Speed: from Vs1=1.00 m/s to Vs2=6.00 m/s (for 20 different Ship Speed values)

Ship Displacement: Disp=16.39 kp

Breadth at Chine: Bc=0.27 m

Deadrise Angle: b=25.00 deg

LCG: from LCG1=0.57 m to LCG2=0.69 m (for 3 different LCG values)

Fresh water properties at 19.00C:

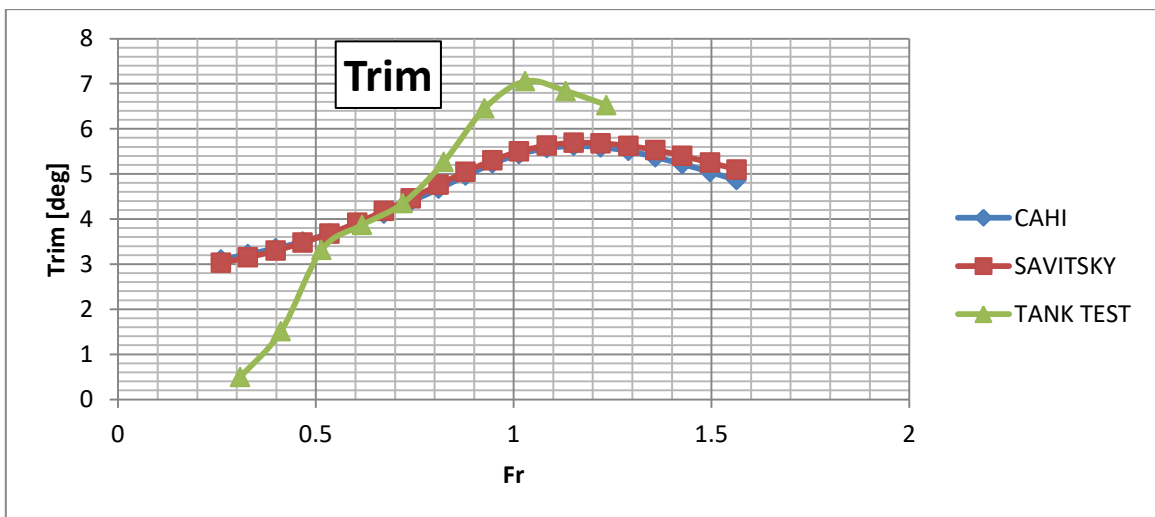
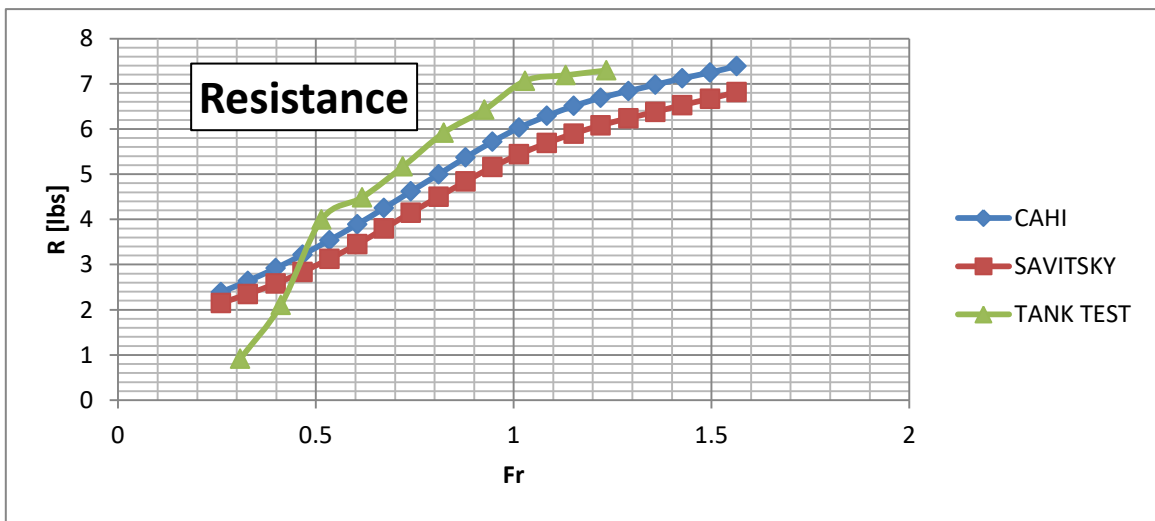
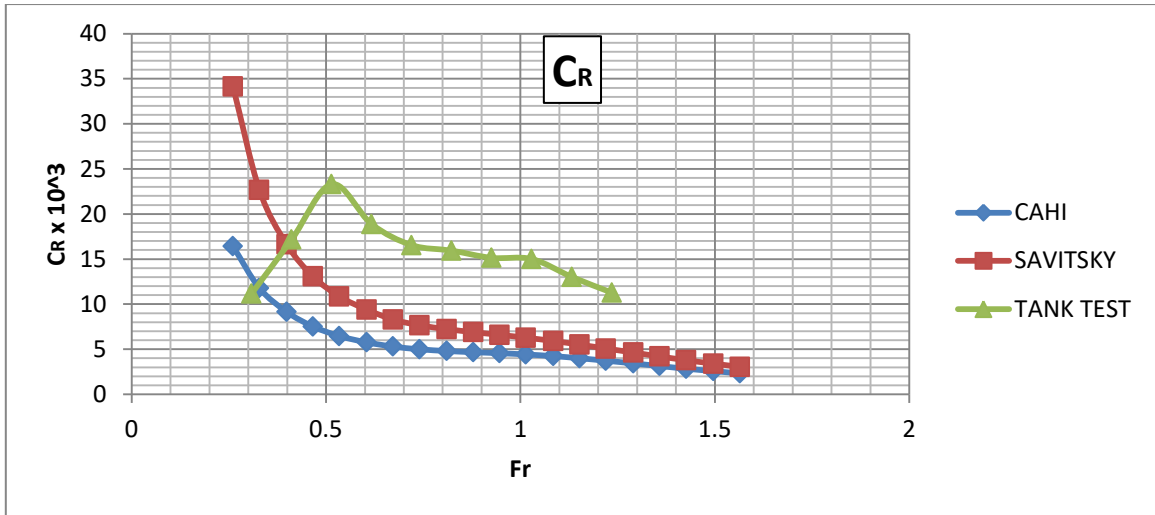
Density=998.30 kg/m³

Viscosity=1.02865*10⁻⁶ m²/s

Results:

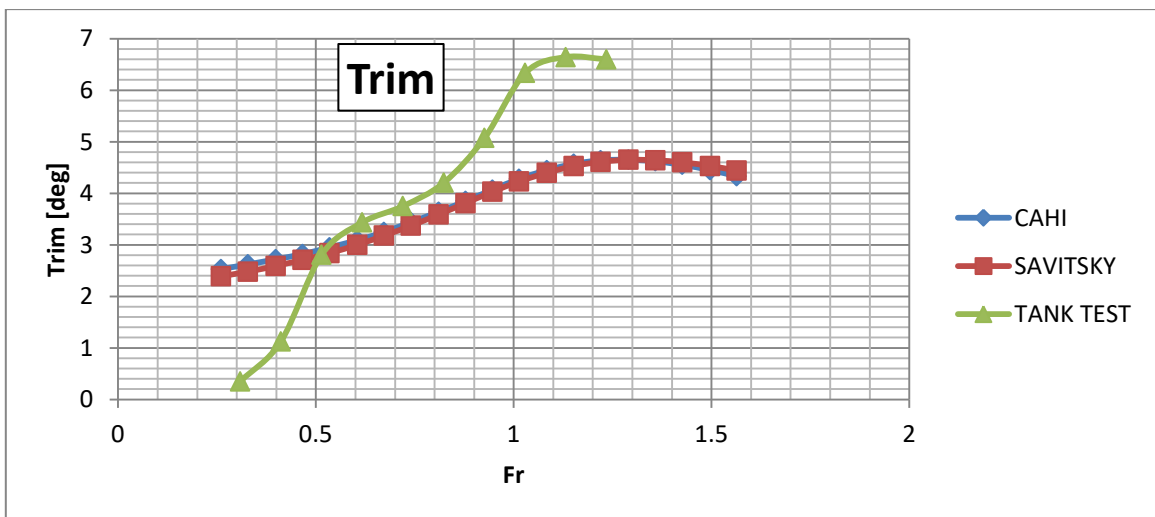
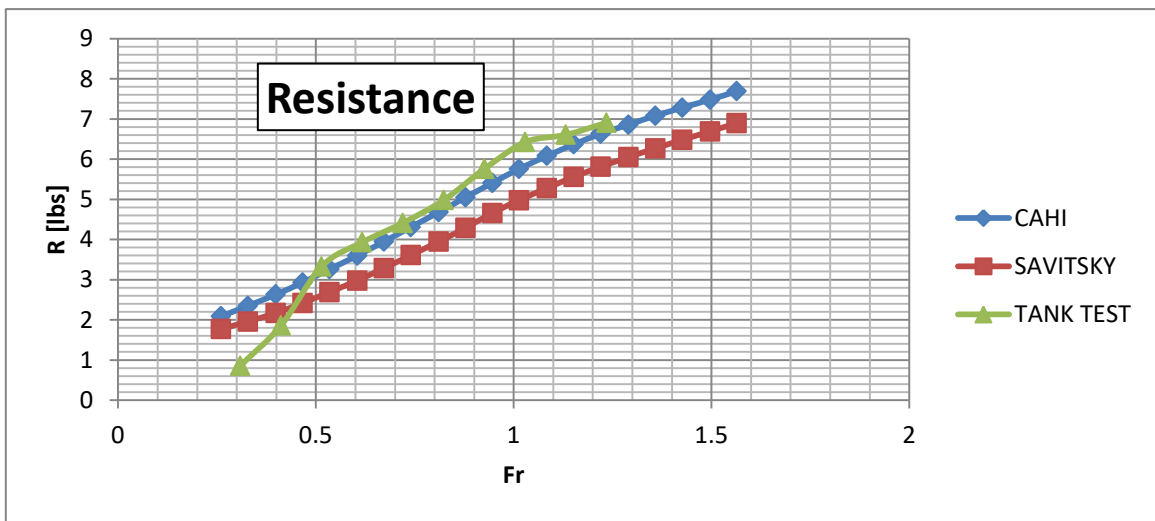
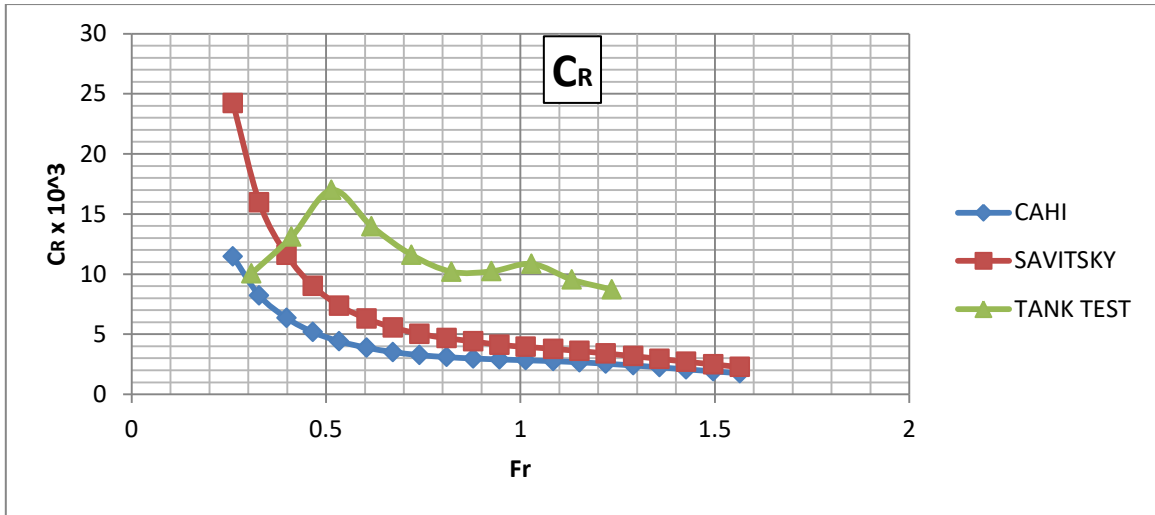
b=25.00 deg Bc=0.27 m Disp=16.39 kp LCG=0.57 m

| ~CAHI~ | | | | | | | ~SAVITSKY~ | | | | | |
|--------|-------|-------|------|-----------------|-----------------|-------|------------|-------|------|-----------------|-----------------|-------|
| Vs | Lamda | Trim | D/W | Cr | Ct | R | Lamda | Trim | D/W | Cr | Ct | R |
| [m/s] | - | [deg] | [%] | 10 ³ | 10 ³ | [lbs] | - | [deg] | [%] | 10 ³ | 10 ³ | [lbs] |
| 1.00 | 13.11 | 3.10 | 0.07 | 16.416 | 20.057 | 2.39 | 6.14 | 3.03 | 0.06 | 34.126 | 38.359 | 2.15 |
| 1.26 | 11.88 | 3.22 | 0.07 | 11.784 | 15.332 | 2.64 | 6.04 | 3.15 | 0.06 | 22.676 | 26.726 | 2.35 |
| 1.53 | 10.93 | 3.35 | 0.08 | 9.147 | 12.626 | 2.92 | 5.92 | 3.30 | 0.07 | 16.624 | 20.539 | 2.58 |
| 1.79 | 10.12 | 3.50 | 0.09 | 7.517 | 10.944 | 3.22 | 5.77 | 3.48 | 0.08 | 13.073 | 16.886 | 2.84 |
| 2.05 | 9.42 | 3.68 | 0.10 | 6.460 | 9.846 | 3.54 | 5.61 | 3.68 | 0.09 | 10.848 | 14.583 | 3.13 |
| 2.32 | 8.79 | 3.88 | 0.11 | 5.760 | 9.115 | 3.89 | 5.42 | 3.92 | 0.10 | 9.396 | 13.069 | 3.45 |
| 2.58 | 8.19 | 4.12 | 0.12 | 5.296 | 8.628 | 4.25 | 5.29 | 4.18 | 0.11 | 8.287 | 11.901 | 3.80 |
| 2.84 | 7.64 | 4.39 | 0.13 | 4.995 | 8.312 | 4.62 | 5.05 | 4.46 | 0.11 | 7.664 | 11.245 | 4.15 |
| 3.11 | 7.11 | 4.67 | 0.14 | 4.804 | 8.111 | 5.00 | 4.79 | 4.76 | 0.12 | 7.230 | 10.787 | 4.50 |
| 3.37 | 6.62 | 4.96 | 0.15 | 4.674 | 7.976 | 5.37 | 4.54 | 5.05 | 0.13 | 6.898 | 10.438 | 4.84 |
| 3.63 | 6.17 | 5.23 | 0.16 | 4.561 | 7.860 | 5.72 | 4.30 | 5.30 | 0.14 | 6.598 | 10.125 | 5.16 |
| 3.89 | 5.77 | 5.44 | 0.17 | 4.423 | 7.722 | 6.03 | 4.08 | 5.50 | 0.15 | 6.279 | 9.794 | 5.44 |
| 4.16 | 5.43 | 5.57 | 0.17 | 4.238 | 7.535 | 6.29 | 3.90 | 5.63 | 0.16 | 5.917 | 9.420 | 5.69 |
| 4.42 | 5.14 | 5.62 | 0.18 | 4.001 | 7.295 | 6.51 | 3.75 | 5.69 | 0.16 | 5.512 | 9.001 | 5.90 |
| 4.68 | 4.90 | 5.59 | 0.19 | 3.726 | 7.014 | 6.69 | 3.62 | 5.68 | 0.17 | 5.077 | 8.550 | 6.08 |
| 4.95 | 4.69 | 5.51 | 0.19 | 3.431 | 6.712 | 6.84 | 3.52 | 5.62 | 0.17 | 4.633 | 8.089 | 6.24 |
| 5.21 | 4.52 | 5.37 | 0.19 | 3.133 | 6.405 | 6.98 | 3.44 | 5.53 | 0.18 | 4.198 | 7.636 | 6.38 |
| 5.47 | 4.38 | 5.22 | 0.20 | 2.844 | 6.106 | 7.12 | 3.38 | 5.40 | 0.18 | 3.785 | 7.203 | 6.53 |
| 5.74 | 4.25 | 5.04 | 0.20 | 2.573 | 5.823 | 7.25 | 3.32 | 5.25 | 0.18 | 3.401 | 6.799 | 6.67 |
| 6.00 | 4.15 | 4.86 | 0.20 | 2.323 | 5.562 | 7.39 | 3.28 | 5.10 | 0.19 | 3.052 | 6.429 | 6.82 |



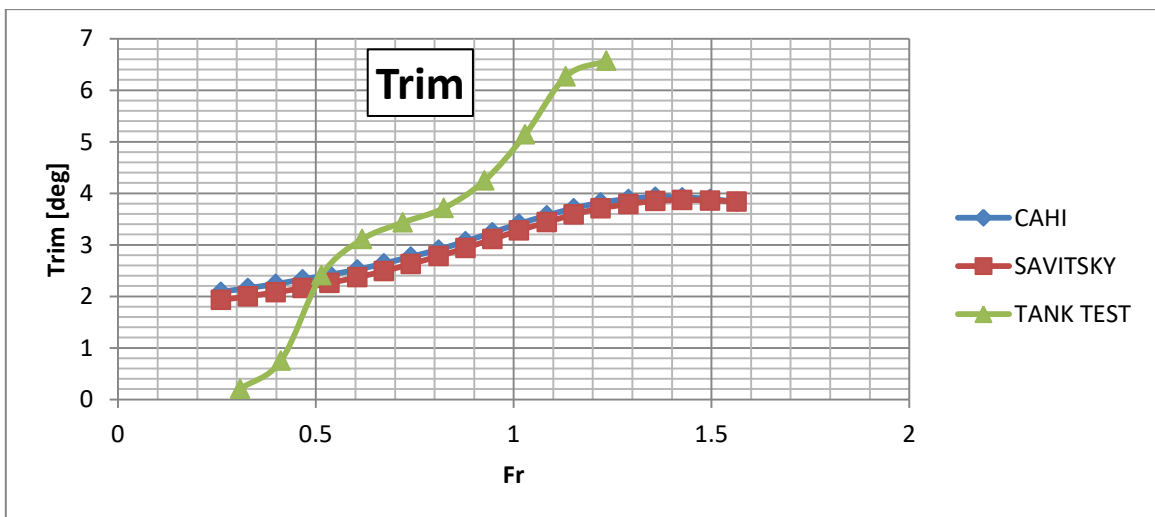
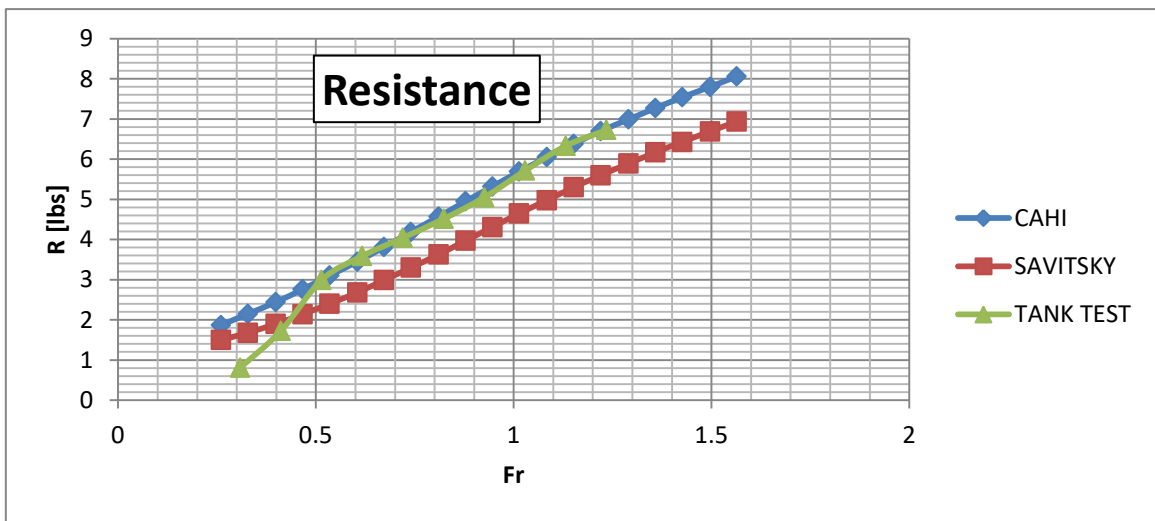
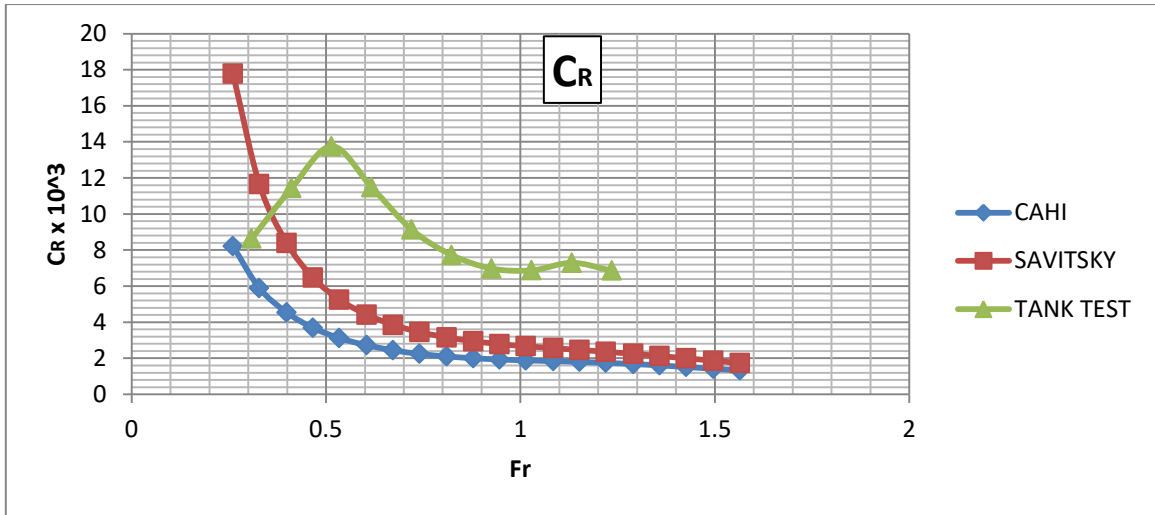
b=25.00 deg Bc=0.27 m Disp=16.39 kp LCG=0.63 m

| ~CAHI~ | | | | | | | ~SAVITSKY~ | | | | | |
|-------------|------------|---------------|------------|-----------------------|-----------------------|------------|------------|---------------|------------|-----------------------|-----------------------|------------|
| Vs [m/s] | Lamda - | Trim [deg] | D/W [%] | Cr 10 ³ | Ct 10 ³ | R [lbs] | Lamda - | Trim [deg] | D/W [%] | Cr 10 ³ | Ct 10 ³ | R [lbs] |
| 1.00 | 15.26 | 2.53 | 0.06 | 11.454 | 14.991 | 2.09 | 6.82 | 2.39 | 0.05 | 24.213 | 28.354 | 1.77 |
| 1.26 | 13.83 | 2.62 | 0.06 | 8.208 | 11.656 | 2.35 | 6.73 | 2.48 | 0.05 | 15.964 | 19.925 | 1.96 |
| 1.53 | 12.73 | 2.72 | 0.07 | 6.341 | 9.722 | 2.63 | 6.62 | 2.59 | 0.06 | 11.590 | 15.418 | 2.17 |
| 1.79 | 11.82 | 2.82 | 0.08 | 5.173 | 8.502 | 2.93 | 6.49 | 2.71 | 0.07 | 9.008 | 12.734 | 2.42 |
| 2.05 | 11.04 | 2.95 | 0.09 | 4.402 | 7.689 | 3.26 | 6.34 | 2.84 | 0.07 | 7.373 | 11.019 | 2.69 |
| 2.32 | 10.33 | 3.09 | 0.10 | 3.876 | 7.132 | 3.60 | 6.16 | 3.00 | 0.08 | 6.289 | 9.871 | 2.98 |
| 2.58 | 9.69 | 3.25 | 0.11 | 3.514 | 6.744 | 3.95 | 5.97 | 3.18 | 0.09 | 5.549 | 9.079 | 3.29 |
| 2.84 | 9.08 | 3.44 | 0.12 | 3.264 | 6.476 | 4.31 | 5.76 | 3.37 | 0.10 | 5.033 | 8.523 | 3.61 |
| 3.11 | 8.51 | 3.64 | 0.13 | 3.095 | 6.294 | 4.68 | 5.54 | 3.59 | 0.11 | 4.668 | 8.127 | 3.95 |
| 3.37 | 7.97 | 3.85 | 0.14 | 2.982 | 6.172 | 5.05 | 5.31 | 3.81 | 0.12 | 4.401 | 7.836 | 4.29 |
| 3.63 | 7.47 | 4.07 | 0.15 | 2.902 | 6.087 | 5.41 | 5.18 | 4.03 | 0.13 | 4.114 | 7.517 | 4.66 |
| 3.89 | 7.00 | 4.28 | 0.16 | 2.834 | 6.017 | 5.76 | 4.94 | 4.23 | 0.14 | 3.947 | 7.336 | 4.98 |
| 4.16 | 6.58 | 4.45 | 0.17 | 2.759 | 5.941 | 6.08 | 4.72 | 4.40 | 0.15 | 3.780 | 7.158 | 5.28 |
| 4.42 | 6.21 | 4.57 | 0.18 | 2.664 | 5.844 | 6.37 | 4.52 | 4.53 | 0.15 | 3.598 | 6.965 | 5.56 |
| 4.68 | 5.89 | 4.64 | 0.18 | 2.544 | 5.722 | 6.63 | 4.35 | 4.61 | 0.16 | 3.396 | 6.751 | 5.81 |
| 4.95 | 5.61 | 4.65 | 0.19 | 2.401 | 5.575 | 6.86 | 4.20 | 4.65 | 0.17 | 3.176 | 6.519 | 6.05 |
| 5.21 | 5.38 | 4.62 | 0.20 | 2.242 | 5.411 | 7.08 | 4.08 | 4.64 | 0.17 | 2.946 | 6.275 | 6.27 |
| 5.47 | 5.18 | 4.55 | 0.20 | 2.077 | 5.239 | 7.28 | 3.98 | 4.60 | 0.18 | 2.713 | 6.027 | 6.48 |
| 5.74 | 5.01 | 4.45 | 0.21 | 1.912 | 5.066 | 7.48 | 3.90 | 4.53 | 0.19 | 2.485 | 5.784 | 6.69 |
| 6.00 | 4.86 | 4.33 | 0.21 | 1.752 | 4.898 | 7.69 | 3.83 | 4.44 | 0.19 | 2.268 | 5.550 | 6.90 |



b=25.00 deg Bc=0.27 m Disp=16.39 kp LCG=0.69 m

| ~CAHI~ | | | | | | | ~SAVITSKY~ | | | | | |
|-------------|------------|---------------|------------|-----------------------|-----------------------|------------|------------|---------------|------------|-----------------------|-----------------------|------------|
| Vs [m/s] | Lamda - | Trim [deg] | D/W [%] | Cr 10 ³ | Ct 10 ³ | R [lbs] | Lamda - | Trim [deg] | D/W [%] | Cr 10 ³ | Ct 10 ³ | R [lbs] |
| 1.00 | 17.54 | 2.09 | 0.05 | 8.216 | 11.661 | 1.87 | 7.50 | 1.93 | 0.04 | 17.776 | 21.837 | 1.50 |
| 1.26 | 15.90 | 2.16 | 0.06 | 5.889 | 9.249 | 2.15 | 7.41 | 2.00 | 0.05 | 11.653 | 15.538 | 1.68 |
| 1.53 | 14.64 | 2.24 | 0.07 | 4.539 | 7.834 | 2.44 | 7.31 | 2.08 | 0.05 | 8.399 | 12.152 | 1.90 |
| 1.79 | 13.61 | 2.33 | 0.08 | 3.686 | 6.930 | 2.76 | 7.19 | 2.16 | 0.06 | 6.471 | 10.123 | 2.14 |
| 2.05 | 12.74 | 2.42 | 0.09 | 3.116 | 6.319 | 3.10 | 7.06 | 2.26 | 0.07 | 5.243 | 8.814 | 2.40 |
| 2.32 | 11.96 | 2.52 | 0.10 | 2.721 | 5.891 | 3.45 | 6.90 | 2.37 | 0.07 | 4.421 | 7.927 | 2.68 |
| 2.58 | 11.25 | 2.64 | 0.11 | 2.442 | 5.586 | 3.81 | 6.72 | 2.49 | 0.08 | 3.852 | 7.304 | 2.99 |
| 2.84 | 10.60 | 2.77 | 0.12 | 2.243 | 5.366 | 4.19 | 6.53 | 2.63 | 0.09 | 3.448 | 6.858 | 3.30 |
| 3.11 | 9.99 | 2.91 | 0.13 | 2.101 | 5.209 | 4.57 | 6.32 | 2.78 | 0.10 | 3.158 | 6.533 | 3.63 |
| 3.37 | 9.40 | 3.07 | 0.14 | 2.002 | 5.099 | 4.95 | 6.10 | 2.94 | 0.11 | 2.947 | 6.294 | 3.97 |
| 3.63 | 8.85 | 3.24 | 0.15 | 1.933 | 5.022 | 5.32 | 5.87 | 3.11 | 0.12 | 2.789 | 6.114 | 4.31 |
| 3.89 | 8.33 | 3.41 | 0.16 | 1.883 | 4.967 | 5.69 | 5.64 | 3.28 | 0.13 | 2.666 | 5.973 | 4.65 |
| 4.16 | 7.84 | 3.57 | 0.17 | 1.841 | 4.922 | 6.05 | 5.41 | 3.44 | 0.14 | 2.561 | 5.853 | 4.98 |
| 4.42 | 7.40 | 3.71 | 0.18 | 1.797 | 4.878 | 6.38 | 5.20 | 3.59 | 0.15 | 2.461 | 5.741 | 5.30 |
| 4.68 | 7.00 | 3.82 | 0.19 | 1.745 | 4.824 | 6.70 | 5.00 | 3.71 | 0.16 | 2.358 | 5.627 | 5.60 |
| 4.95 | 6.66 | 3.89 | 0.19 | 1.680 | 4.757 | 6.99 | 4.82 | 3.79 | 0.16 | 2.246 | 5.504 | 5.89 |
| 5.21 | 6.35 | 3.93 | 0.20 | 1.602 | 4.676 | 7.27 | 4.66 | 3.85 | 0.17 | 2.125 | 5.372 | 6.17 |
| 5.47 | 6.09 | 3.92 | 0.21 | 1.513 | 4.584 | 7.54 | 4.52 | 3.87 | 0.18 | 1.996 | 5.233 | 6.43 |
| 5.74 | 5.87 | 3.89 | 0.22 | 1.418 | 4.484 | 7.80 | 4.41 | 3.86 | 0.19 | 1.865 | 5.089 | 6.69 |
| 6.00 | 5.67 | 3.83 | 0.22 | 1.320 | 4.381 | 8.06 | 4.30 | 3.84 | 0.19 | 1.733 | 4.945 | 6.94 |



Simulation Info:

28/06/2019 02:46:16 pm

Input Data:

Ship Speed: from Vs1=1.00 m/s to Vs2=6.00 m/s (for 20 different Ship Speed values)

Ship Displacement: Disp=7.97 kp

Breadth at Chine: Bc=0.21 m

Deadrise Angle: b=25.00 deg

LCG: from LCG1=0.57 m to LCG2=0.69 m (for 3 different LCG values)

Fresh water properties at 17.20C:

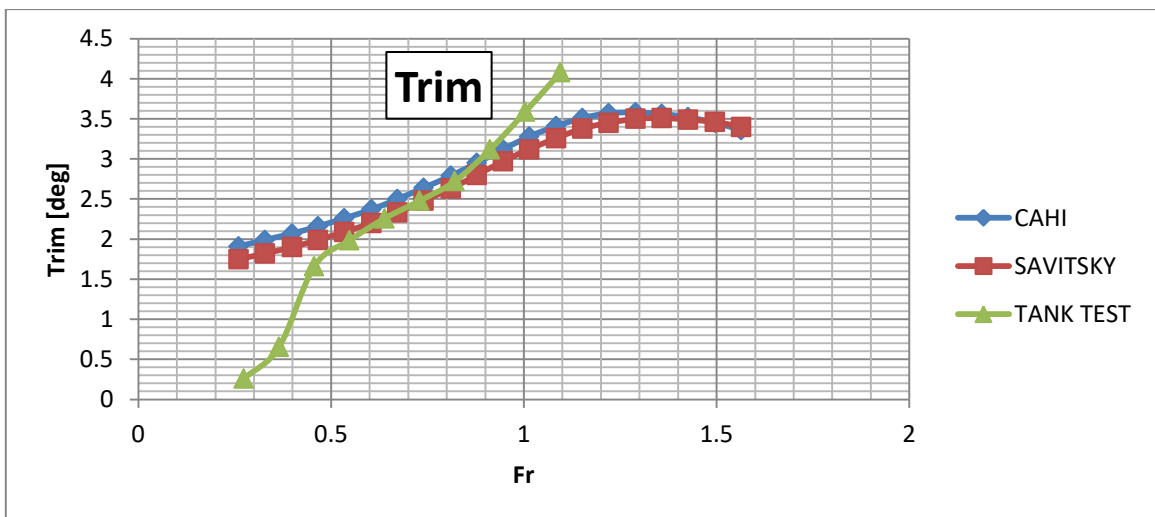
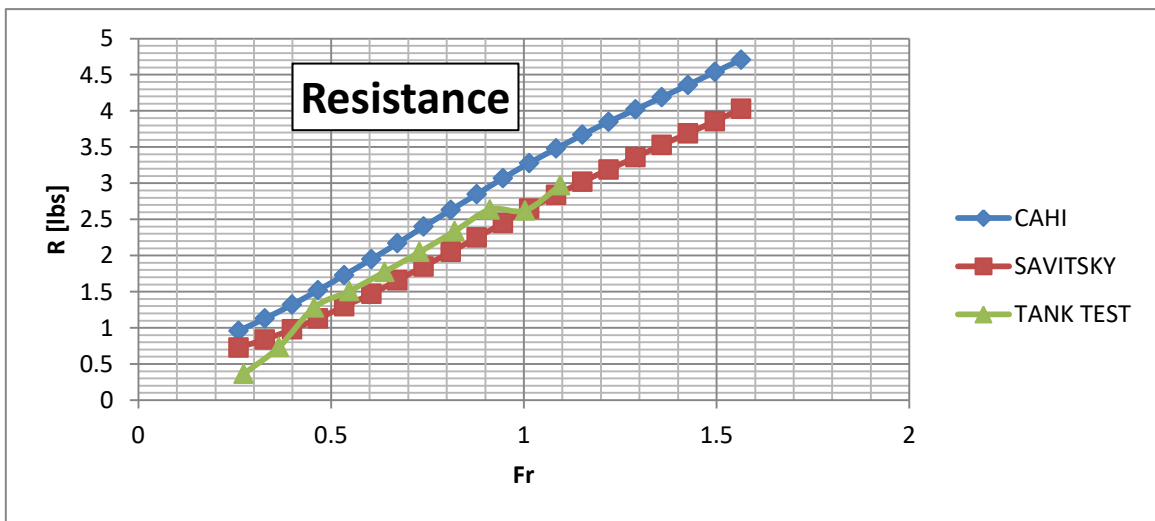
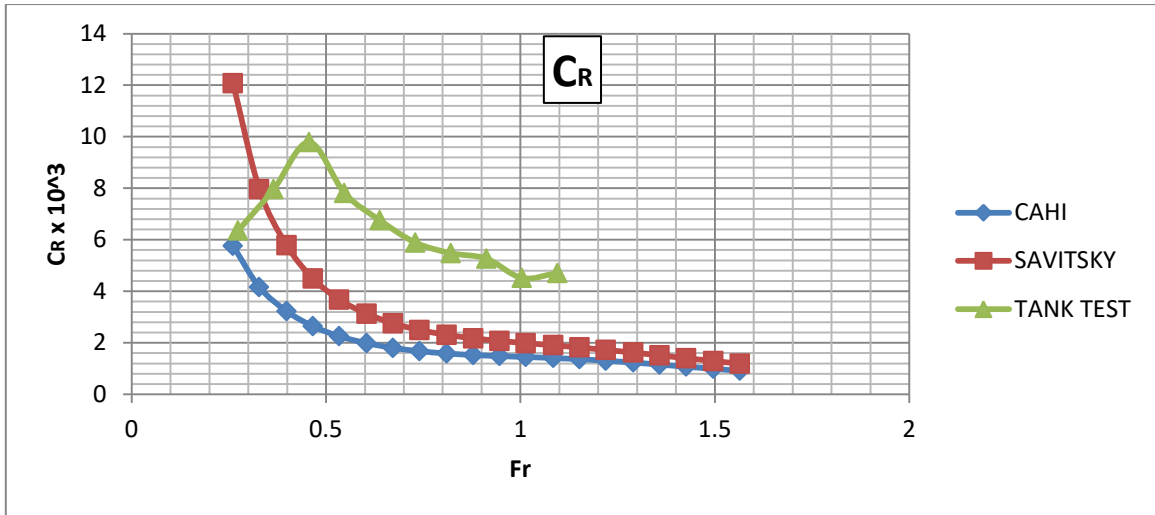
Density=998.66 kg/m³

Viscosity=1.07606*10⁻⁶ m²/s

Results:

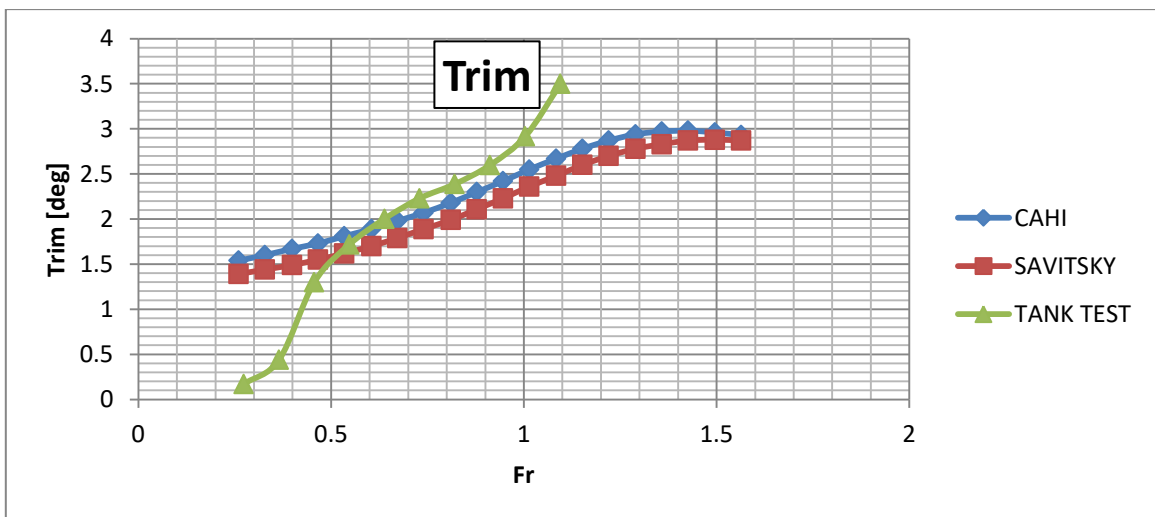
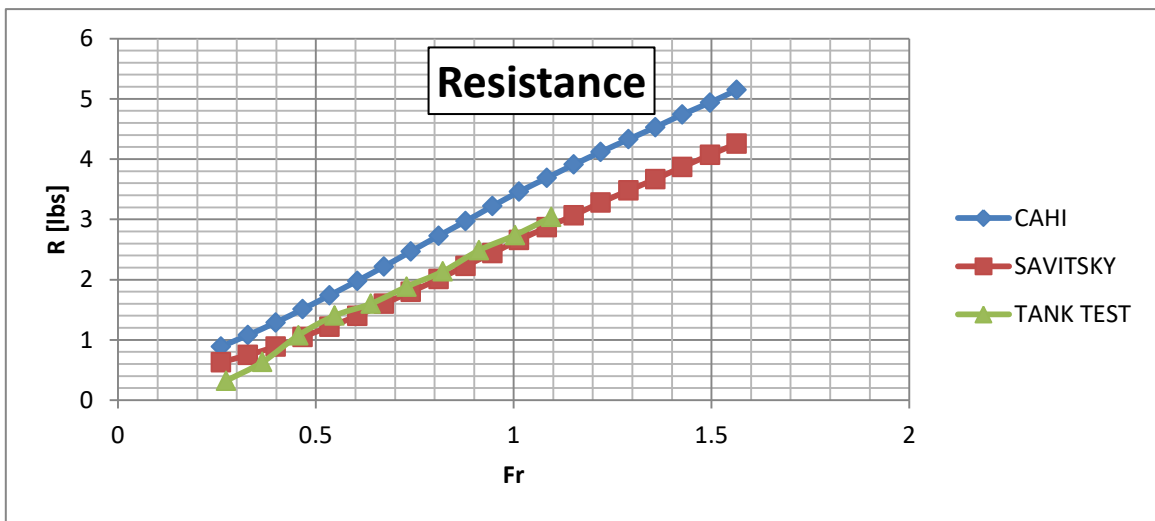
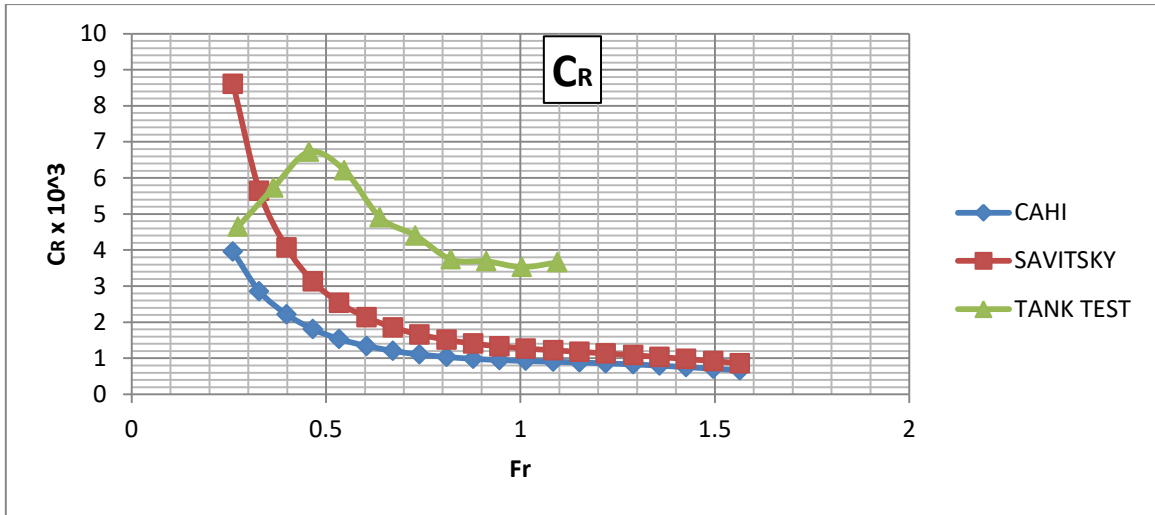
b=25.00 deg Bc=0.21 m Disp=7.97 kp LCG=0.57 m

| ~CAHI~ | | | | | | | ~SAVITSKY~ | | | | | |
|--------|-------|-------|------|-----------------|-----------------|-------|------------|-------|------|-----------------|-----------------|-------|
| Vs | Lamda | Trim | D/W | Cr | Ct | R | Lamda | Trim | D/W | Cr | Ct | R |
| [m/s] | - | [deg] | [%] | 10 ³ | 10 ³ | [lbs] | - | [deg] | [%] | 10 ³ | 10 ³ | [lbs] |
| 1.00 | 18.01 | 1.91 | 0.05 | 5.766 | 9.383 | 0.96 | 7.86 | 1.75 | 0.04 | 12.079 | 16.344 | 0.73 |
| 1.26 | 16.30 | 1.99 | 0.06 | 4.158 | 7.684 | 1.13 | 7.76 | 1.82 | 0.05 | 7.966 | 12.042 | 0.84 |
| 1.53 | 14.98 | 2.07 | 0.08 | 3.226 | 6.685 | 1.32 | 7.64 | 1.90 | 0.06 | 5.782 | 9.719 | 0.98 |
| 1.79 | 13.89 | 2.16 | 0.09 | 2.641 | 6.046 | 1.52 | 7.49 | 1.99 | 0.06 | 4.491 | 8.321 | 1.13 |
| 2.05 | 12.96 | 2.26 | 0.10 | 2.252 | 5.615 | 1.73 | 7.33 | 2.09 | 0.07 | 3.672 | 7.417 | 1.30 |
| 2.32 | 12.12 | 2.37 | 0.11 | 1.986 | 5.316 | 1.95 | 7.13 | 2.20 | 0.08 | 3.128 | 6.806 | 1.47 |
| 2.58 | 11.36 | 2.50 | 0.12 | 1.802 | 5.106 | 2.17 | 6.92 | 2.33 | 0.09 | 2.755 | 6.379 | 1.66 |
| 2.84 | 10.65 | 2.64 | 0.14 | 1.674 | 4.959 | 2.40 | 6.69 | 2.48 | 0.11 | 2.494 | 6.075 | 1.85 |
| 3.11 | 9.98 | 2.79 | 0.15 | 1.586 | 4.858 | 2.63 | 6.44 | 2.63 | 0.12 | 2.310 | 5.856 | 2.05 |
| 3.37 | 9.34 | 2.95 | 0.16 | 1.526 | 4.789 | 2.85 | 6.19 | 2.80 | 0.13 | 2.176 | 5.695 | 2.25 |
| 3.63 | 8.75 | 3.12 | 0.17 | 1.484 | 4.741 | 3.07 | 5.92 | 2.97 | 0.14 | 2.073 | 5.572 | 2.45 |
| 3.89 | 8.20 | 3.28 | 0.19 | 1.448 | 4.703 | 3.28 | 5.67 | 3.12 | 0.15 | 1.987 | 5.469 | 2.65 |
| 4.16 | 7.71 | 3.41 | 0.20 | 1.410 | 4.663 | 3.48 | 5.43 | 3.26 | 0.16 | 1.904 | 5.372 | 2.84 |
| 4.42 | 7.27 | 3.51 | 0.21 | 1.362 | 4.614 | 3.67 | 5.21 | 3.38 | 0.17 | 1.817 | 5.273 | 3.02 |
| 4.68 | 6.89 | 3.57 | 0.22 | 1.303 | 4.552 | 3.85 | 5.02 | 3.45 | 0.18 | 1.723 | 5.165 | 3.19 |
| 4.95 | 6.57 | 3.58 | 0.23 | 1.233 | 4.478 | 4.02 | 4.84 | 3.50 | 0.19 | 1.620 | 5.050 | 3.36 |
| 5.21 | 6.29 | 3.56 | 0.24 | 1.154 | 4.395 | 4.19 | 4.70 | 3.51 | 0.20 | 1.512 | 4.929 | 3.53 |
| 5.47 | 6.06 | 3.52 | 0.25 | 1.072 | 4.307 | 4.36 | 4.57 | 3.49 | 0.21 | 1.402 | 4.805 | 3.69 |
| 5.74 | 5.85 | 3.45 | 0.26 | 0.990 | 4.217 | 4.54 | 4.46 | 3.46 | 0.22 | 1.293 | 4.682 | 3.86 |
| 6.00 | 5.68 | 3.36 | 0.27 | 0.910 | 4.128 | 4.71 | 4.37 | 3.40 | 0.23 | 1.189 | 4.562 | 4.03 |



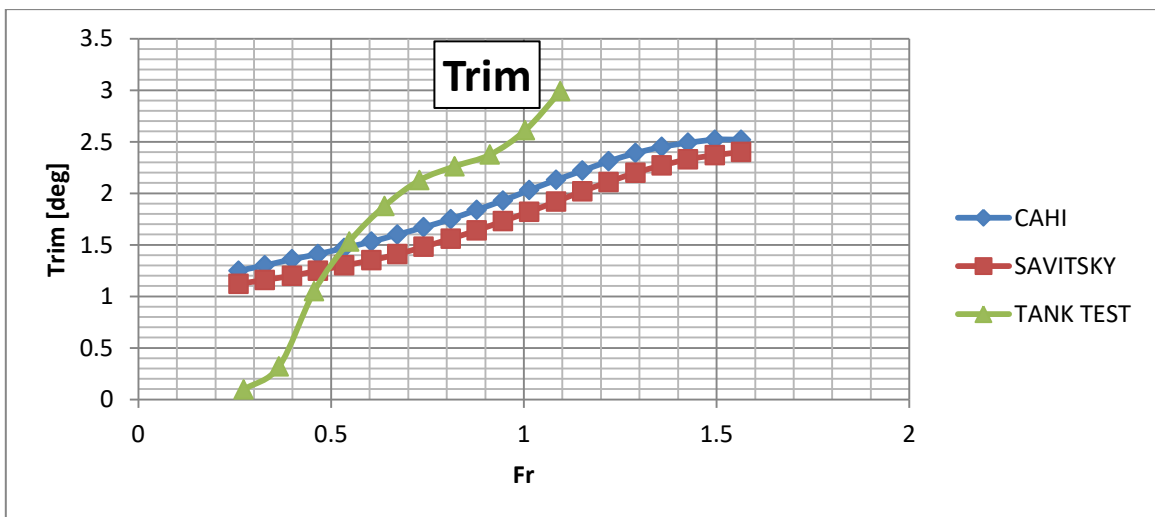
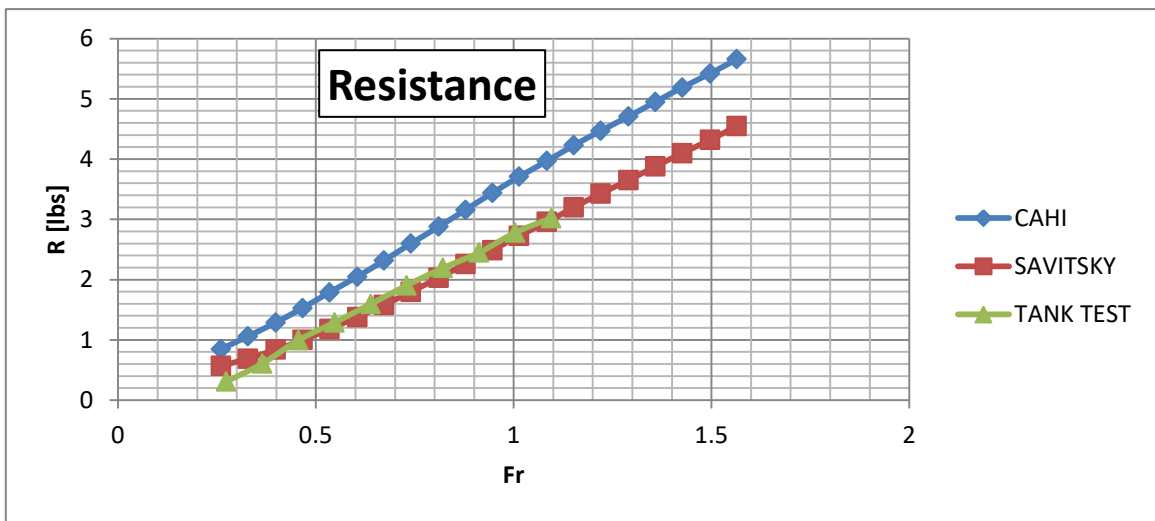
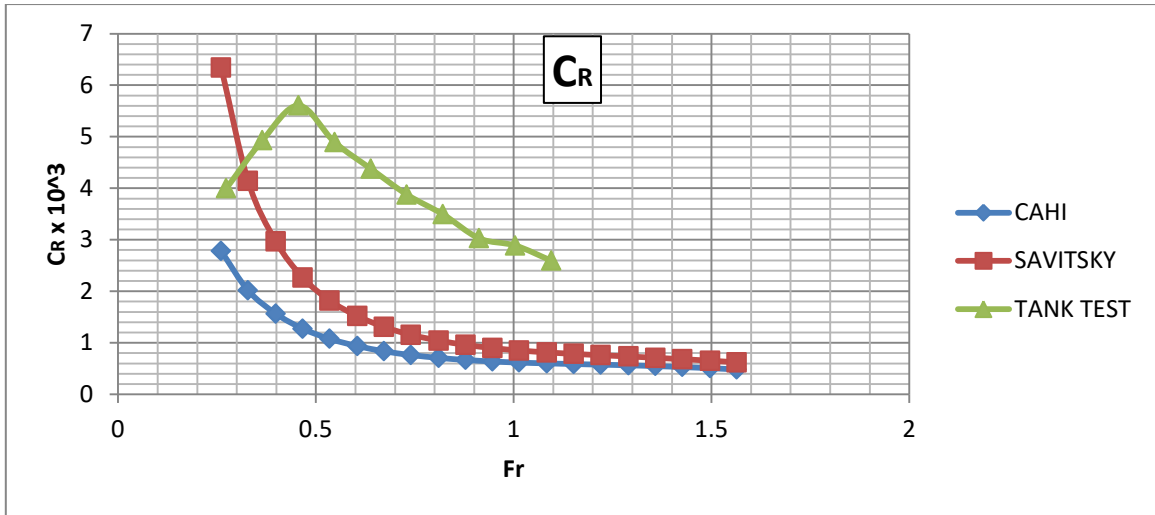
b=25.00 deg Bc=0.21 m Disp=7.97 kp LCG=0.63 m

| ~CAHI~ | | | | | | | ~SAVITSKY~ | | | | | |
|-------------|------------|---------------|------------|-----------------------|-----------------------|------------|------------|---------------|------------|-----------------------|-----------------------|------------|
| Vs [m/s] | Lamda - | Trim [deg] | D/W [%] | Cr 10 ³ | Ct 10 ³ | R [lbs] | Lamda - | Trim [deg] | D/W [%] | Cr 10 ³ | Ct 10 ³ | R [lbs] |
| 1.00 | 21.04 | 1.54 | 0.05 | 3.956 | 7.468 | 0.89 | 8.72 | 1.39 | 0.04 | 8.610 | 12.784 | 0.63 |
| 1.26 | 19.04 | 1.60 | 0.06 | 2.858 | 6.284 | 1.08 | 8.63 | 1.44 | 0.04 | 5.644 | 9.634 | 0.75 |
| 1.53 | 17.51 | 1.67 | 0.07 | 2.216 | 5.575 | 1.29 | 8.52 | 1.49 | 0.05 | 4.067 | 7.919 | 0.89 |
| 1.79 | 16.26 | 1.73 | 0.09 | 1.807 | 5.114 | 1.51 | 8.39 | 1.55 | 0.06 | 3.130 | 6.876 | 1.05 |
| 2.05 | 15.20 | 1.81 | 0.10 | 1.531 | 4.797 | 1.74 | 8.24 | 1.62 | 0.07 | 2.533 | 6.193 | 1.22 |
| 2.32 | 14.27 | 1.89 | 0.11 | 1.340 | 4.572 | 1.98 | 8.06 | 1.70 | 0.08 | 2.132 | 5.724 | 1.40 |
| 2.58 | 13.42 | 1.98 | 0.13 | 1.203 | 4.409 | 2.22 | 7.87 | 1.79 | 0.09 | 1.853 | 5.389 | 1.60 |
| 2.84 | 12.64 | 2.07 | 0.14 | 1.105 | 4.289 | 2.47 | 7.66 | 1.89 | 0.10 | 1.655 | 5.144 | 1.80 |
| 3.11 | 11.91 | 2.18 | 0.16 | 1.035 | 4.203 | 2.73 | 7.43 | 1.99 | 0.11 | 1.512 | 4.964 | 2.01 |
| 3.37 | 11.22 | 2.30 | 0.17 | 0.985 | 4.141 | 2.97 | 7.18 | 2.11 | 0.13 | 1.407 | 4.829 | 2.23 |
| 3.63 | 10.56 | 2.42 | 0.18 | 0.950 | 4.098 | 3.22 | 6.93 | 2.23 | 0.14 | 1.329 | 4.727 | 2.44 |
| 3.89 | 9.94 | 2.55 | 0.20 | 0.925 | 4.067 | 3.46 | 6.67 | 2.36 | 0.15 | 1.270 | 4.648 | 2.66 |
| 4.16 | 9.37 | 2.67 | 0.21 | 0.904 | 4.044 | 3.69 | 6.41 | 2.48 | 0.16 | 1.221 | 4.583 | 2.87 |
| 4.42 | 8.84 | 2.78 | 0.22 | 0.883 | 4.022 | 3.91 | 6.16 | 2.60 | 0.17 | 1.177 | 4.526 | 3.07 |
| 4.68 | 8.36 | 2.87 | 0.23 | 0.859 | 3.996 | 4.12 | 5.93 | 2.70 | 0.19 | 1.133 | 4.470 | 3.28 |
| 4.95 | 7.94 | 2.94 | 0.25 | 0.830 | 3.966 | 4.33 | 5.71 | 2.78 | 0.20 | 1.085 | 4.412 | 3.48 |
| 5.21 | 7.58 | 2.97 | 0.26 | 0.795 | 3.928 | 4.53 | 5.52 | 2.83 | 0.21 | 1.034 | 4.350 | 3.67 |
| 5.47 | 7.26 | 2.98 | 0.27 | 0.754 | 3.884 | 4.74 | 5.35 | 2.87 | 0.22 | 0.979 | 4.283 | 3.87 |
| 5.74 | 6.98 | 2.96 | 0.28 | 0.710 | 3.835 | 4.94 | 5.20 | 2.88 | 0.23 | 0.921 | 4.214 | 4.07 |
| 6.00 | 6.74 | 2.93 | 0.29 | 0.664 | 3.784 | 5.15 | 5.08 | 2.87 | 0.24 | 0.861 | 4.143 | 4.26 |



b=25.00 deg Bc=0.21 m Disp=7.97 kp LCG=0.69 m

| ~CAHI~ | | | | | | | ~SAVITSKY~ | | | | | |
|-------------|------------|---------------|------------|-----------------------|-----------------------|------------|------------|---------------|------------|-----------------------|-----------------------|------------|
| Vs [m/s] | Lamda - | Trim [deg] | D/W [%] | Cr 10 ³ | Ct 10 ³ | R [lbs] | Lamda - | Trim [deg] | D/W [%] | Cr 10 ³ | Ct 10 ³ | R [lbs] |
| 1.00 | 24.28 | 1.25 | 0.05 | 2.779 | 6.198 | 0.85 | 9.57 | 1.12 | 0.03 | 6.341 | 10.436 | 0.57 |
| 1.26 | 21.96 | 1.30 | 0.06 | 2.016 | 5.353 | 1.06 | 9.49 | 1.16 | 0.04 | 4.139 | 8.053 | 0.69 |
| 1.53 | 20.20 | 1.36 | 0.07 | 1.565 | 4.837 | 1.29 | 9.39 | 1.20 | 0.05 | 2.965 | 6.744 | 0.84 |
| 1.79 | 18.78 | 1.41 | 0.09 | 1.274 | 4.496 | 1.53 | 9.28 | 1.25 | 0.06 | 2.268 | 5.941 | 1.00 |
| 2.05 | 17.58 | 1.47 | 0.10 | 1.077 | 4.258 | 1.79 | 9.14 | 1.30 | 0.07 | 1.821 | 5.409 | 1.18 |
| 2.32 | 16.54 | 1.53 | 0.12 | 0.937 | 4.085 | 2.05 | 8.98 | 1.35 | 0.08 | 1.519 | 5.038 | 1.38 |
| 2.58 | 15.60 | 1.60 | 0.13 | 0.836 | 3.956 | 2.32 | 8.80 | 1.41 | 0.09 | 1.307 | 4.769 | 1.58 |
| 2.84 | 14.74 | 1.67 | 0.15 | 0.762 | 3.860 | 2.60 | 8.61 | 1.48 | 0.10 | 1.154 | 4.568 | 1.80 |
| 3.11 | 13.94 | 1.75 | 0.16 | 0.707 | 3.788 | 2.88 | 8.39 | 1.56 | 0.12 | 1.043 | 4.417 | 2.03 |
| 3.37 | 13.19 | 1.84 | 0.18 | 0.667 | 3.733 | 3.16 | 8.16 | 1.64 | 0.13 | 0.960 | 4.301 | 2.26 |
| 3.63 | 12.48 | 1.93 | 0.20 | 0.638 | 3.694 | 3.44 | 7.92 | 1.73 | 0.14 | 0.898 | 4.212 | 2.49 |
| 3.89 | 11.80 | 2.03 | 0.21 | 0.616 | 3.665 | 3.71 | 7.67 | 1.82 | 0.16 | 0.851 | 4.142 | 2.73 |
| 4.16 | 11.16 | 2.13 | 0.23 | 0.601 | 3.644 | 3.97 | 7.41 | 1.92 | 0.17 | 0.814 | 4.088 | 2.96 |
| 4.42 | 10.56 | 2.22 | 0.24 | 0.588 | 3.628 | 4.23 | 7.15 | 2.02 | 0.18 | 0.785 | 4.043 | 3.20 |
| 4.68 | 10.00 | 2.31 | 0.25 | 0.576 | 3.615 | 4.47 | 6.89 | 2.11 | 0.19 | 0.759 | 4.005 | 3.43 |
| 4.95 | 9.49 | 2.39 | 0.27 | 0.563 | 3.601 | 4.71 | 6.65 | 2.20 | 0.21 | 0.735 | 3.970 | 3.65 |
| 5.21 | 9.03 | 2.45 | 0.28 | 0.548 | 3.585 | 4.95 | 6.42 | 2.27 | 0.22 | 0.709 | 3.934 | 3.88 |
| 5.47 | 8.62 | 2.49 | 0.30 | 0.529 | 3.564 | 5.19 | 6.21 | 2.33 | 0.23 | 0.682 | 3.898 | 4.10 |
| 5.74 | 8.26 | 2.52 | 0.31 | 0.507 | 3.540 | 5.42 | 6.03 | 2.37 | 0.25 | 0.653 | 3.859 | 4.32 |
| 6.00 | 7.95 | 2.52 | 0.32 | 0.483 | 3.513 | 5.66 | 5.86 | 2.40 | 0.26 | 0.621 | 3.818 | 4.55 |



Simulation Info:

 28/06/2019 02:46:28 pm

Input Data:

 Ship Speed: from Vs1=1.00 m/s to Vs2=6.00 m/s (for 20 different Ship Speed values)

Ship Displacement: Disp=11.45 kp

Breadth at Chine: Bc=0.21 m

Deadrise Angle: b=25.00 deg

LCG: from LCG1=0.57 m to LCG2=0.69 m (for 3 different LCG values)

Fresh water properties at 17.20C:

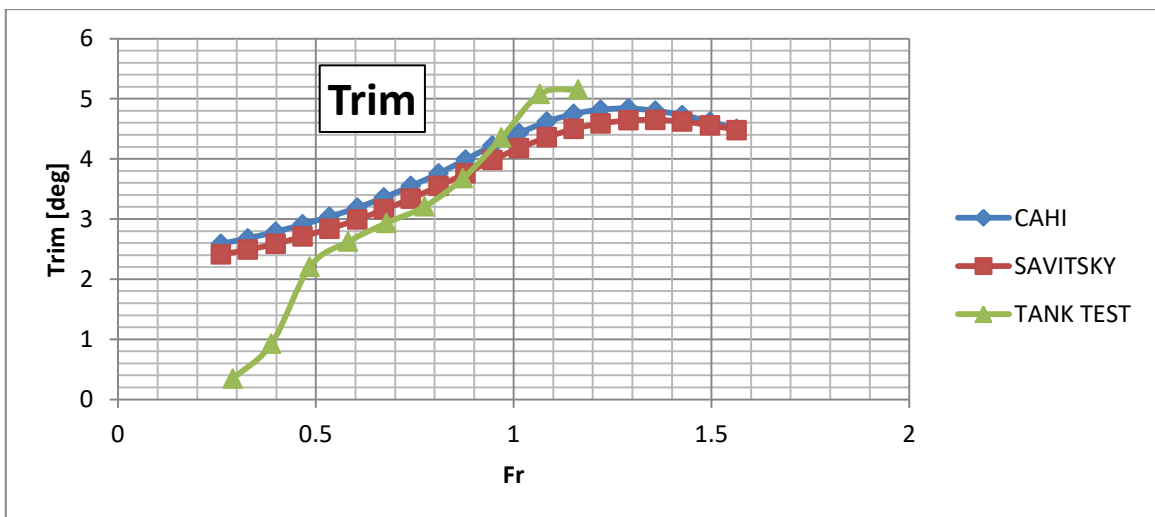
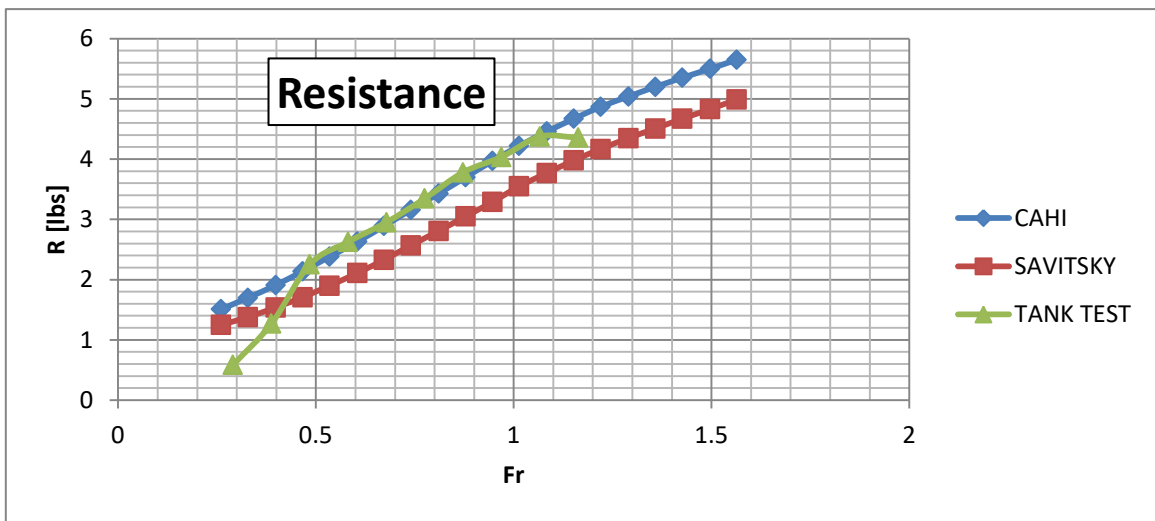
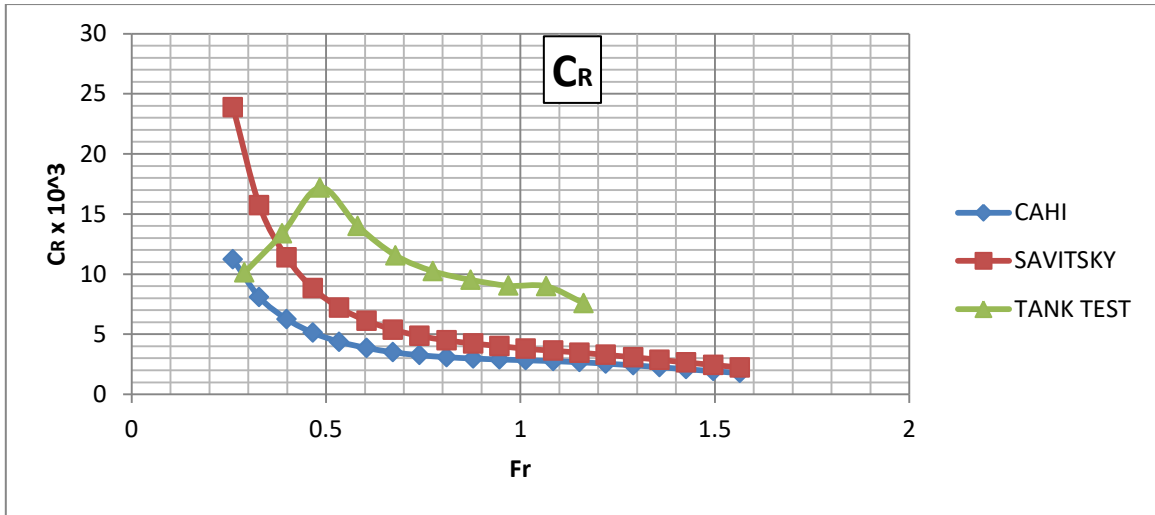
Density=998.66 kg/m³

Viscosity=1.07606*10⁻⁶ m²/s

Results:

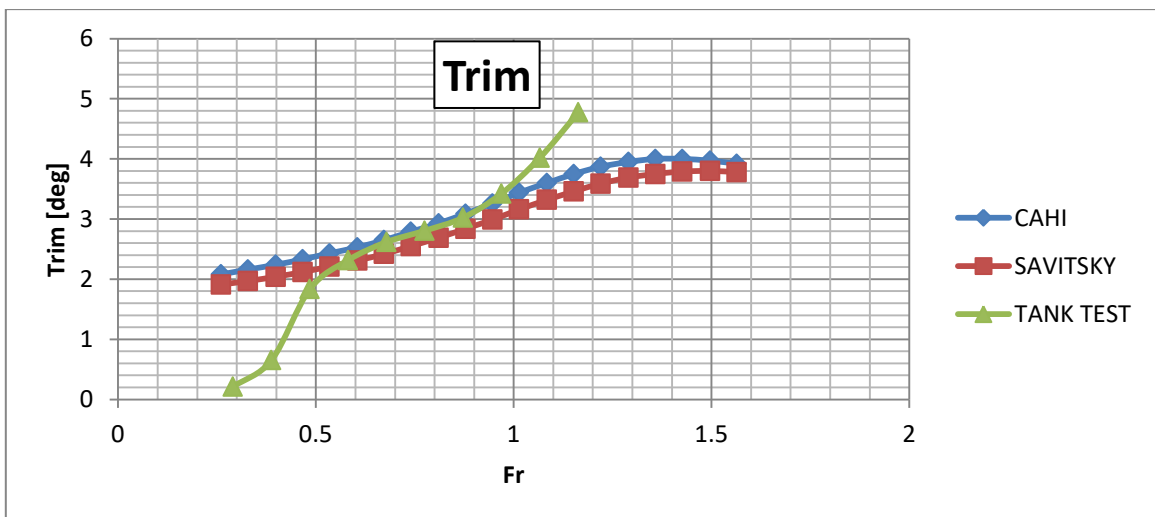
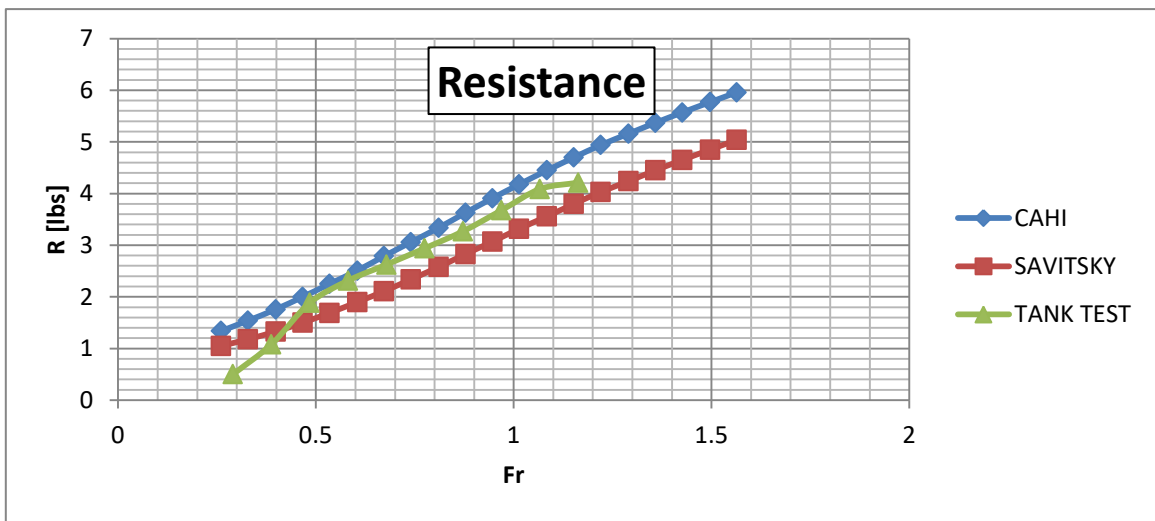
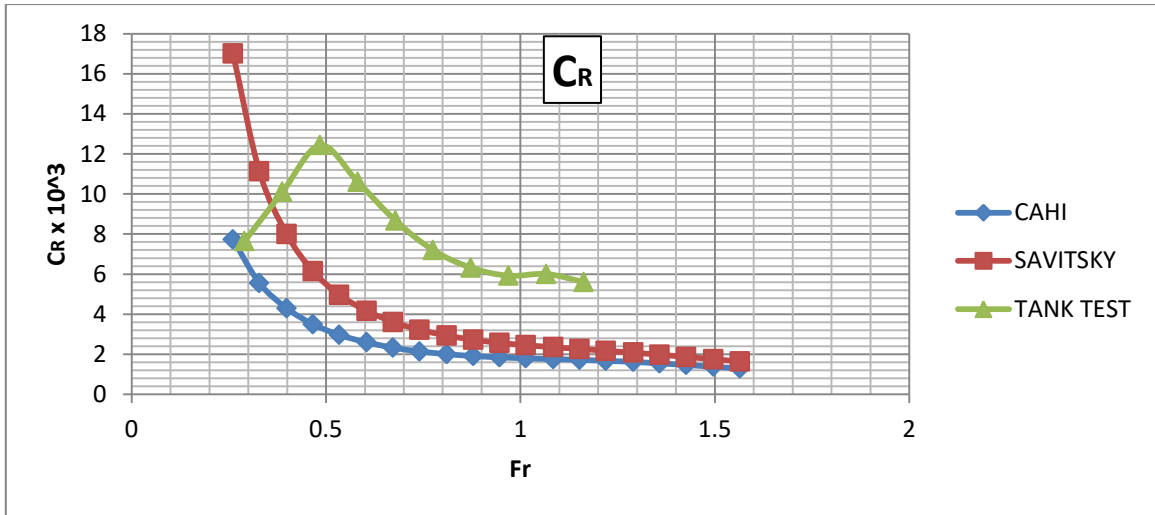
 b=25.00 deg Bc=0.21 m Disp=11.45 kp LCG=0.57 m

| ~CAHI~ | | | | | | | ~SAVITSKY~ | | | | | |
|--------|-------|-------|------|-----------------|-----------------|-------|------------|-------|------|-----------------|-----------------|-------|
| Vs | Lamda | Trim | D/W | Cr | Ct | R | Lamda | Trim | D/W | Cr | Ct | R |
| [m/s] | - | [deg] | [%] | 10 ³ | 10 ³ | [lbs] | - | [deg] | [%] | 10 ³ | 10 ³ | [lbs] |
| 1.00 | 18.01 | 2.59 | 0.06 | 11.226 | 14.844 | 1.51 | 7.86 | 2.41 | 0.05 | 23.889 | 28.155 | 1.25 |
| 1.26 | 16.30 | 2.68 | 0.07 | 8.074 | 11.602 | 1.70 | 7.76 | 2.49 | 0.05 | 15.716 | 19.793 | 1.38 |
| 1.53 | 14.98 | 2.79 | 0.08 | 6.258 | 9.717 | 1.91 | 7.64 | 2.59 | 0.06 | 11.380 | 15.318 | 1.54 |
| 1.79 | 13.89 | 2.91 | 0.08 | 5.120 | 8.526 | 2.14 | 7.49 | 2.71 | 0.07 | 8.820 | 12.650 | 1.71 |
| 2.05 | 12.96 | 3.04 | 0.09 | 4.368 | 7.732 | 2.38 | 7.33 | 2.84 | 0.08 | 7.196 | 10.942 | 1.90 |
| 2.32 | 12.12 | 3.19 | 0.10 | 3.855 | 7.186 | 2.63 | 7.13 | 2.99 | 0.08 | 6.117 | 9.795 | 2.11 |
| 2.58 | 11.36 | 3.36 | 0.11 | 3.500 | 6.806 | 2.89 | 6.92 | 3.16 | 0.09 | 5.376 | 9.001 | 2.33 |
| 2.84 | 10.65 | 3.55 | 0.13 | 3.256 | 6.543 | 3.16 | 6.69 | 3.34 | 0.10 | 4.858 | 8.440 | 2.57 |
| 3.11 | 9.98 | 3.76 | 0.14 | 3.090 | 6.364 | 3.43 | 6.44 | 3.55 | 0.11 | 4.490 | 8.038 | 2.81 |
| 3.37 | 9.34 | 3.99 | 0.15 | 2.979 | 6.243 | 3.70 | 6.19 | 3.76 | 0.12 | 4.222 | 7.743 | 3.05 |
| 3.63 | 8.75 | 4.22 | 0.16 | 2.900 | 6.159 | 3.97 | 5.92 | 3.98 | 0.13 | 4.016 | 7.517 | 3.29 |
| 3.89 | 8.20 | 4.43 | 0.17 | 2.834 | 6.090 | 4.22 | 5.76 | 4.18 | 0.14 | 3.785 | 7.259 | 3.55 |
| 4.16 | 7.71 | 4.62 | 0.18 | 2.761 | 6.016 | 4.46 | 5.50 | 4.36 | 0.15 | 3.629 | 7.091 | 3.77 |
| 4.42 | 7.27 | 4.75 | 0.19 | 2.669 | 5.923 | 4.67 | 5.27 | 4.50 | 0.16 | 3.463 | 6.913 | 3.98 |
| 4.68 | 6.89 | 4.82 | 0.19 | 2.551 | 5.803 | 4.87 | 5.07 | 4.59 | 0.17 | 3.280 | 6.719 | 4.17 |
| 4.95 | 6.57 | 4.84 | 0.20 | 2.411 | 5.659 | 5.04 | 4.89 | 4.64 | 0.17 | 3.081 | 6.507 | 4.35 |
| 5.21 | 6.29 | 4.80 | 0.21 | 2.254 | 5.497 | 5.20 | 4.74 | 4.65 | 0.18 | 2.869 | 6.282 | 4.51 |
| 5.47 | 6.06 | 4.73 | 0.21 | 2.090 | 5.326 | 5.35 | 4.62 | 4.62 | 0.19 | 2.653 | 6.051 | 4.67 |
| 5.74 | 5.85 | 4.62 | 0.22 | 1.924 | 5.153 | 5.50 | 4.52 | 4.56 | 0.19 | 2.439 | 5.822 | 4.83 |
| 6.00 | 5.68 | 4.50 | 0.22 | 1.764 | 4.985 | 5.65 | 4.43 | 4.48 | 0.20 | 2.232 | 5.599 | 4.99 |



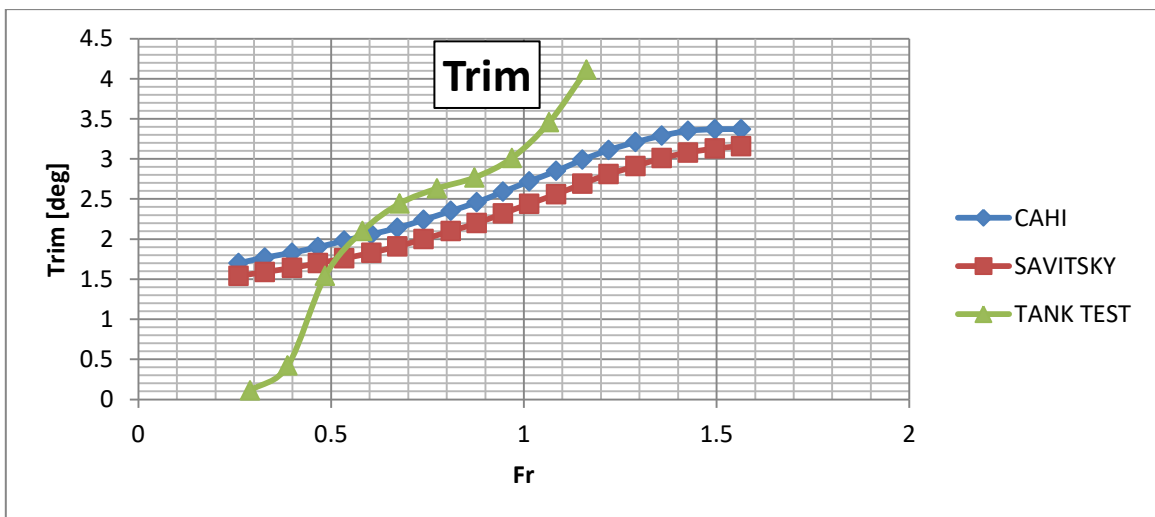
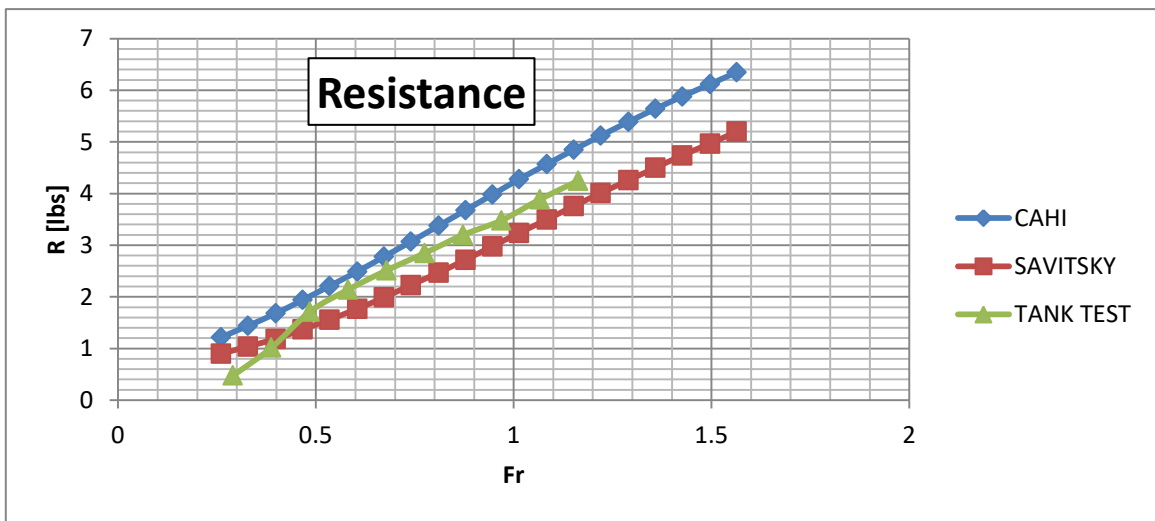
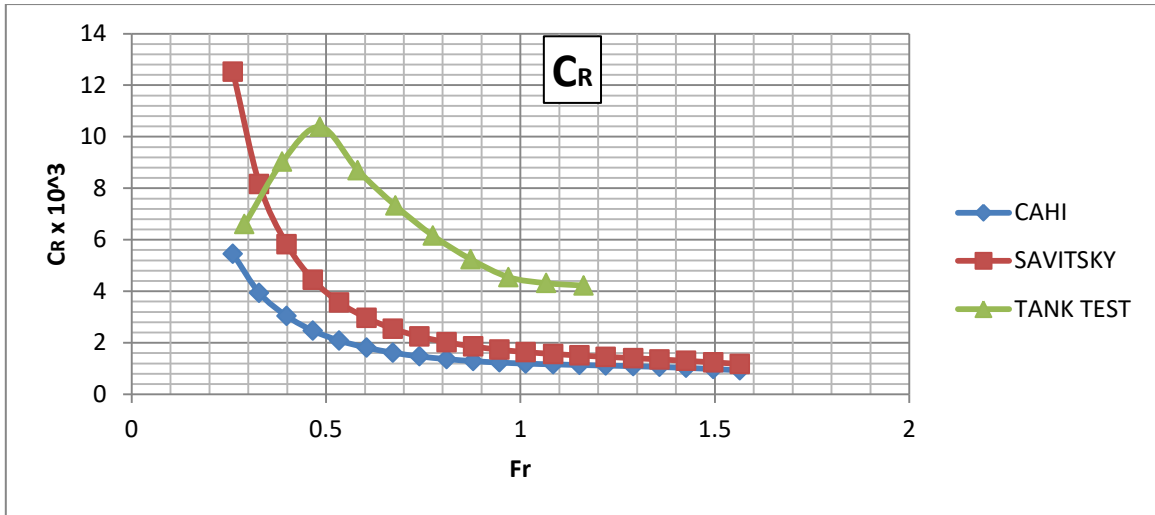
b=25.00 deg Bc=0.21 m Disp=11.45 kp LCG=0.63 m

| ~CAHI~ | | | | | | | ~SAVITSKY~ | | | | | |
|-------------|------------|---------------|------------|-----------------------|-----------------------|------------|------------|---------------|------------|-----------------------|-----------------------|------------|
| Vs [m/s] | Lamda - | Trim [deg] | D/W [%] | Cr 10 ³ | Ct 10 ³ | R [lbs] | Lamda - | Trim [deg] | D/W [%] | Cr 10 ³ | Ct 10 ³ | R [lbs] |
| 1.00 | 21.04 | 2.08 | 0.05 | 7.721 | 11.234 | 1.34 | 8.72 | 1.91 | 0.04 | 17.014 | 21.189 | 1.05 |
| 1.26 | 19.04 | 2.16 | 0.06 | 5.555 | 8.981 | 1.54 | 8.63 | 1.97 | 0.05 | 11.126 | 15.116 | 1.18 |
| 1.53 | 17.51 | 2.24 | 0.07 | 4.296 | 7.655 | 1.76 | 8.52 | 2.04 | 0.05 | 7.997 | 11.849 | 1.33 |
| 1.79 | 16.26 | 2.33 | 0.08 | 3.497 | 6.805 | 2.00 | 8.39 | 2.12 | 0.06 | 6.141 | 9.887 | 1.50 |
| 2.05 | 15.20 | 2.43 | 0.09 | 2.963 | 6.229 | 2.25 | 8.24 | 2.21 | 0.07 | 4.958 | 8.619 | 1.69 |
| 2.32 | 14.27 | 2.53 | 0.10 | 2.592 | 5.825 | 2.51 | 8.06 | 2.31 | 0.08 | 4.164 | 7.756 | 1.90 |
| 2.58 | 13.42 | 2.65 | 0.11 | 2.328 | 5.534 | 2.79 | 7.87 | 2.42 | 0.08 | 3.611 | 7.148 | 2.11 |
| 2.84 | 12.64 | 2.79 | 0.12 | 2.140 | 5.325 | 3.06 | 7.66 | 2.55 | 0.09 | 3.218 | 6.709 | 2.34 |
| 3.11 | 11.91 | 2.93 | 0.13 | 2.006 | 5.175 | 3.34 | 7.43 | 2.69 | 0.10 | 2.934 | 6.387 | 2.58 |
| 3.37 | 11.22 | 3.09 | 0.14 | 1.911 | 5.068 | 3.63 | 7.18 | 2.84 | 0.11 | 2.726 | 6.148 | 2.83 |
| 3.63 | 10.56 | 3.26 | 0.15 | 1.845 | 4.994 | 3.91 | 6.93 | 2.99 | 0.12 | 2.570 | 5.969 | 3.07 |
| 3.89 | 9.94 | 3.44 | 0.17 | 1.797 | 4.941 | 4.18 | 6.67 | 3.16 | 0.13 | 2.451 | 5.830 | 3.32 |
| 4.16 | 9.37 | 3.60 | 0.18 | 1.759 | 4.900 | 4.45 | 6.41 | 3.32 | 0.14 | 2.352 | 5.715 | 3.56 |
| 4.42 | 8.84 | 3.75 | 0.19 | 1.720 | 4.859 | 4.70 | 6.16 | 3.46 | 0.15 | 2.263 | 5.613 | 3.80 |
| 4.68 | 8.36 | 3.87 | 0.20 | 1.674 | 4.812 | 4.94 | 5.93 | 3.59 | 0.16 | 2.174 | 5.512 | 4.03 |
| 4.95 | 7.94 | 3.95 | 0.20 | 1.616 | 4.753 | 5.16 | 5.71 | 3.69 | 0.17 | 2.079 | 5.407 | 4.24 |
| 5.21 | 7.58 | 4.00 | 0.21 | 1.545 | 4.680 | 5.37 | 5.52 | 3.75 | 0.18 | 1.977 | 5.294 | 4.45 |
| 5.47 | 7.26 | 4.00 | 0.22 | 1.464 | 4.596 | 5.57 | 5.35 | 3.79 | 0.18 | 1.868 | 5.174 | 4.65 |
| 5.74 | 6.98 | 3.97 | 0.23 | 1.376 | 4.504 | 5.77 | 5.20 | 3.80 | 0.19 | 1.753 | 5.048 | 4.85 |
| 6.00 | 6.74 | 3.92 | 0.24 | 1.285 | 4.407 | 5.96 | 5.08 | 3.78 | 0.20 | 1.637 | 4.920 | 5.04 |



b=25.00 deg Bc=0.21 m Disp=11.45 kp LCG=0.69 m

| ~CAHI~ | | | | | | | ~SAVITSKY~ | | | | | |
|-------------|------------|---------------|------------|-----------------------|-----------------------|------------|------------|---------------|------------|-----------------------|-----------------------|------------|
| Vs [m/s] | Lamda - | Trim [deg] | D/W [%] | Cr 10 ³ | Ct 10 ³ | R [lbs] | Lamda - | Trim [deg] | D/W [%] | Cr 10 ³ | Ct 10 ³ | R [lbs] |
| 1.00 | 24.28 | 1.70 | 0.05 | 5.453 | 8.873 | 1.22 | 9.57 | 1.54 | 0.04 | 12.525 | 16.620 | 0.90 |
| 1.26 | 21.96 | 1.77 | 0.06 | 3.932 | 7.269 | 1.44 | 9.49 | 1.59 | 0.04 | 8.154 | 12.068 | 1.04 |
| 1.53 | 20.20 | 1.83 | 0.07 | 3.039 | 6.312 | 1.68 | 9.39 | 1.64 | 0.05 | 5.828 | 9.607 | 1.19 |
| 1.79 | 18.78 | 1.90 | 0.08 | 2.469 | 5.691 | 1.94 | 9.28 | 1.70 | 0.05 | 4.446 | 8.119 | 1.37 |
| 2.05 | 17.58 | 1.98 | 0.09 | 2.082 | 5.264 | 2.21 | 9.14 | 1.76 | 0.06 | 3.561 | 7.150 | 1.56 |
| 2.32 | 16.54 | 2.06 | 0.10 | 1.811 | 4.959 | 2.49 | 8.98 | 1.83 | 0.07 | 2.964 | 6.483 | 1.77 |
| 2.58 | 15.60 | 2.14 | 0.11 | 1.615 | 4.736 | 2.78 | 8.80 | 1.91 | 0.08 | 2.545 | 6.007 | 1.99 |
| 2.84 | 14.74 | 2.24 | 0.12 | 1.472 | 4.570 | 3.07 | 8.61 | 2.00 | 0.09 | 2.243 | 5.658 | 2.23 |
| 3.11 | 13.94 | 2.35 | 0.13 | 1.366 | 4.447 | 3.38 | 8.39 | 2.10 | 0.10 | 2.022 | 5.397 | 2.47 |
| 3.37 | 13.19 | 2.46 | 0.15 | 1.289 | 4.356 | 3.68 | 8.16 | 2.20 | 0.11 | 1.857 | 5.199 | 2.72 |
| 3.63 | 12.48 | 2.59 | 0.16 | 1.233 | 4.290 | 3.98 | 7.92 | 2.32 | 0.12 | 1.733 | 5.048 | 2.98 |
| 3.89 | 11.80 | 2.72 | 0.17 | 1.193 | 4.242 | 4.28 | 7.67 | 2.44 | 0.13 | 1.639 | 4.932 | 3.24 |
| 4.16 | 11.16 | 2.85 | 0.18 | 1.163 | 4.207 | 4.57 | 7.41 | 2.56 | 0.14 | 1.566 | 4.840 | 3.50 |
| 4.42 | 10.56 | 2.99 | 0.19 | 1.139 | 4.181 | 4.85 | 7.15 | 2.69 | 0.15 | 1.507 | 4.766 | 3.76 |
| 4.68 | 10.00 | 3.11 | 0.20 | 1.117 | 4.157 | 5.12 | 6.89 | 2.81 | 0.16 | 1.455 | 4.701 | 4.01 |
| 4.95 | 9.49 | 3.21 | 0.21 | 1.092 | 4.131 | 5.39 | 6.65 | 2.91 | 0.17 | 1.405 | 4.641 | 4.26 |
| 5.21 | 9.03 | 3.29 | 0.22 | 1.062 | 4.100 | 5.64 | 6.42 | 3.01 | 0.18 | 1.354 | 4.580 | 4.50 |
| 5.47 | 8.62 | 3.35 | 0.23 | 1.025 | 4.061 | 5.88 | 6.21 | 3.08 | 0.19 | 1.300 | 4.516 | 4.74 |
| 5.74 | 8.26 | 3.37 | 0.24 | 0.981 | 4.015 | 6.12 | 6.03 | 3.13 | 0.20 | 1.241 | 4.449 | 4.97 |
| 6.00 | 7.95 | 3.37 | 0.25 | 0.933 | 3.964 | 6.35 | 5.86 | 3.16 | 0.21 | 1.179 | 4.377 | 5.20 |



Simulation Info:

28/06/2019 02:46:48 pm

Input Data:

Ship Speed: from Vs1=1.00 m/s to Vs2=6.00 m/s (for 20 different Ship Speed values)

Ship Displacement: Disp=18.45 kp

Breadth at Chine: Bc=0.21 m

Deadrise Angle: b=25.00 deg

LCG: from LCG1=0.57 m to LCG2=0.69 m (for 3 different LCG values)

Fresh water properties at 17.20C:

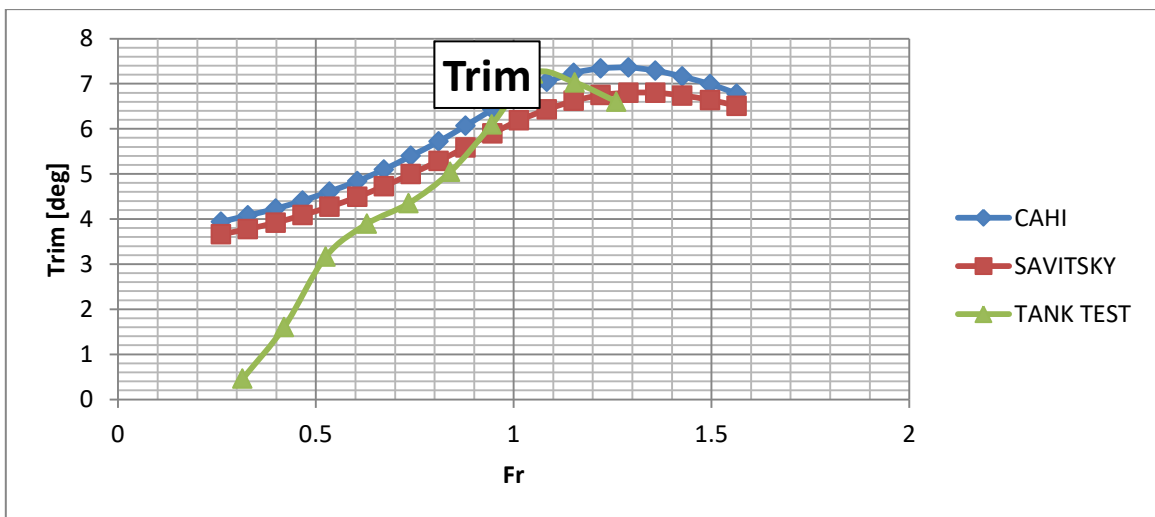
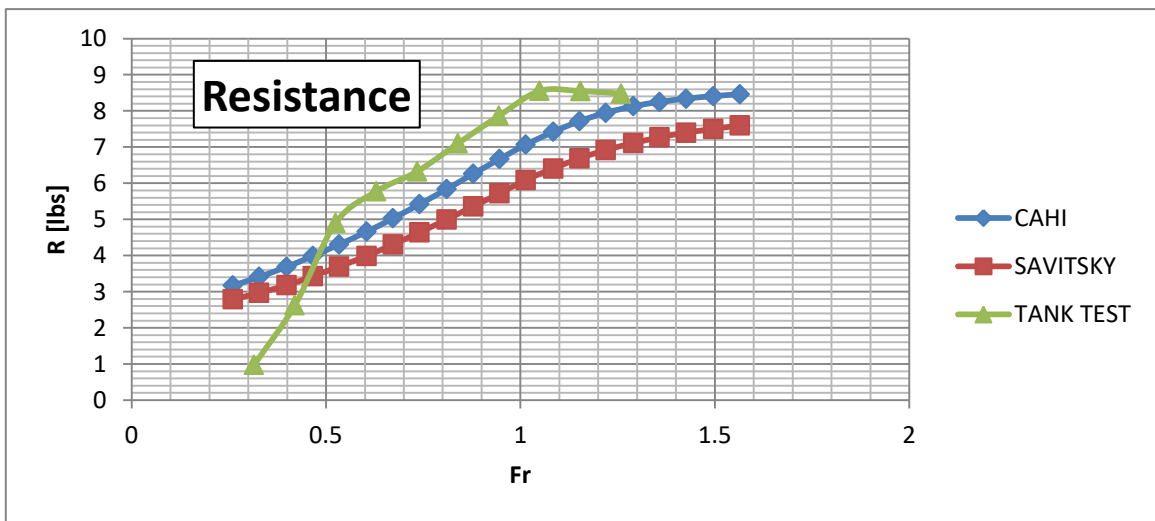
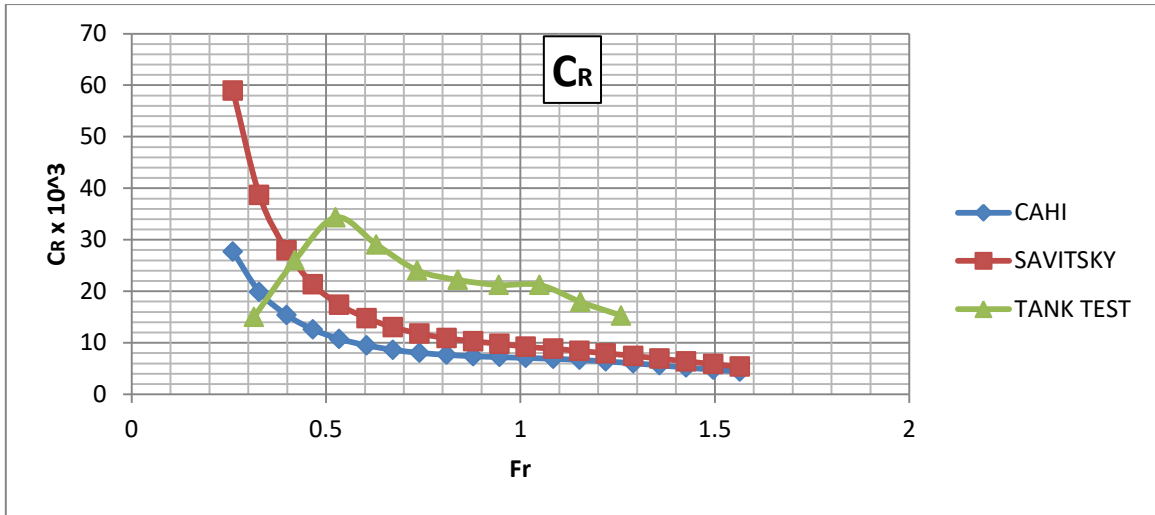
Density=998.66 kg/m³

Viscosity=1.07606*10⁻⁶ m²/s

Results:

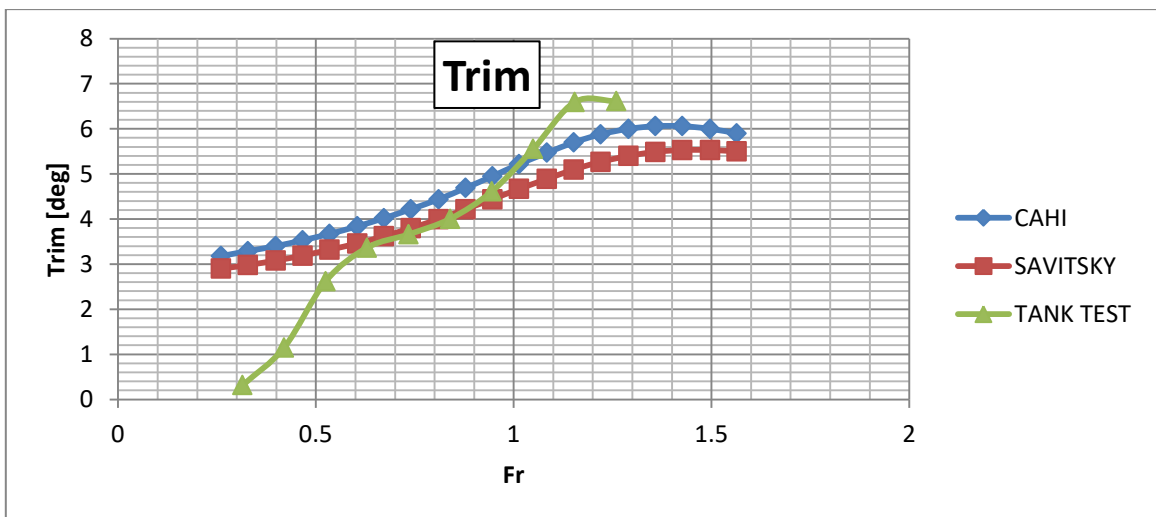
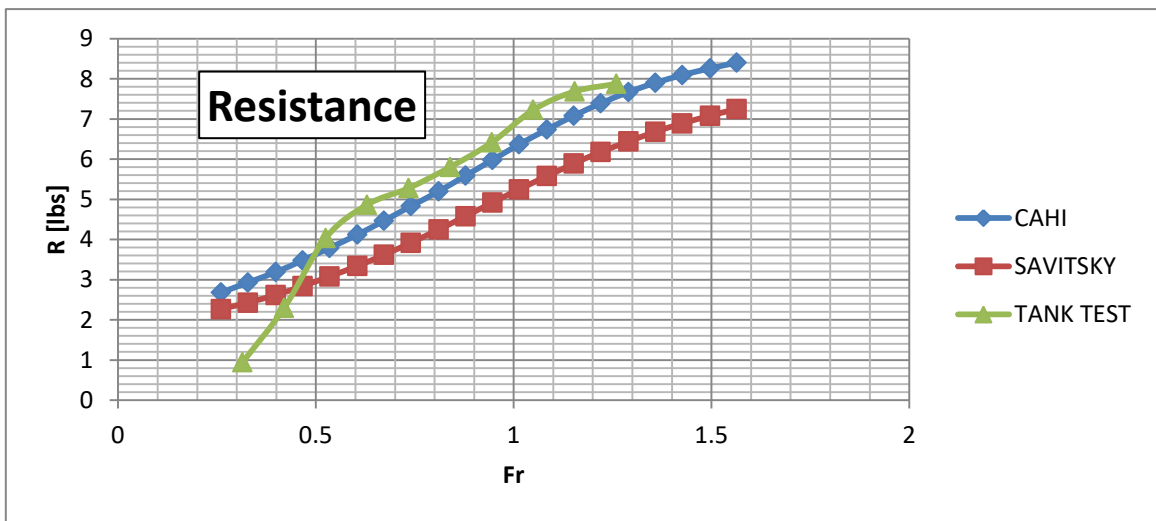
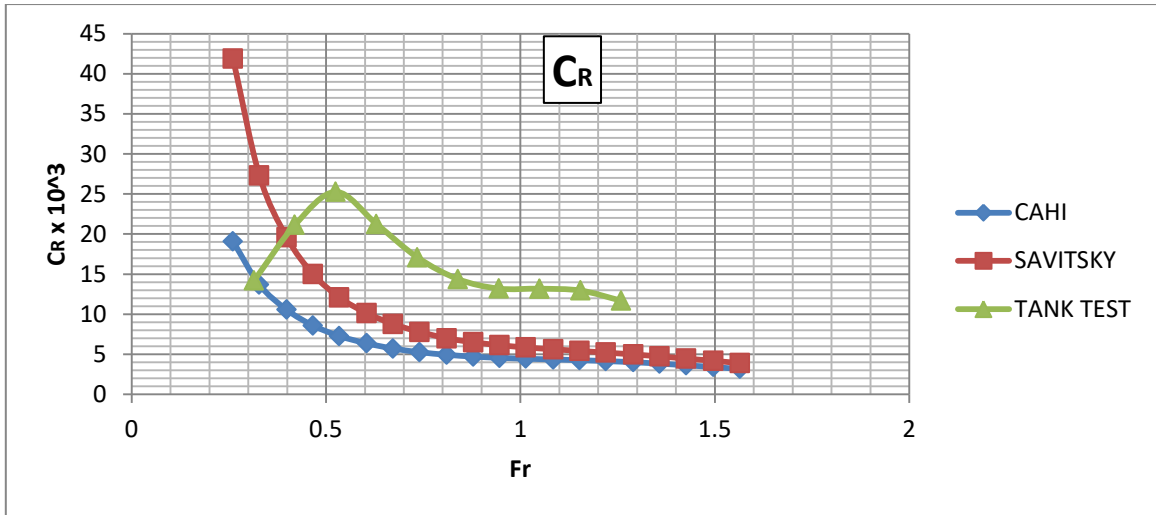
b=25.00 deg Bc=0.21 m Disp=18.45 kp LCG=0.57 m

| ~CAHI~ | | | | | | | ~SAVITSKY~ | | | | | |
|--------|-------|-------|------|-----------------|-----------------|-------|------------|-------|------|-----------------|-----------------|-------|
| Vs | Lamda | Trim | D/W | Cr | Ct | R | Lamda | Trim | D/W | Cr | Ct | R |
| [m/s] | - | [deg] | [%] | 10 ³ | 10 ³ | [lbs] | - | [deg] | [%] | 10 ³ | 10 ³ | [lbs] |
| 1.00 | 18.01 | 3.94 | 0.08 | 27.714 | 31.334 | 3.17 | 7.86 | 3.66 | 0.07 | 58.922 | 63.190 | 2.79 |
| 1.26 | 16.30 | 4.08 | 0.08 | 19.886 | 23.416 | 3.41 | 7.76 | 3.78 | 0.07 | 38.661 | 42.740 | 2.97 |
| 1.53 | 14.98 | 4.23 | 0.09 | 15.398 | 18.859 | 3.69 | 7.64 | 3.92 | 0.08 | 27.926 | 31.866 | 3.18 |
| 1.79 | 13.89 | 4.41 | 0.10 | 12.596 | 16.004 | 3.99 | 7.59 | 4.09 | 0.08 | 21.325 | 25.149 | 3.43 |
| 2.05 | 12.96 | 4.61 | 0.11 | 10.752 | 14.118 | 4.31 | 7.40 | 4.27 | 0.09 | 17.394 | 21.135 | 3.70 |
| 2.32 | 12.12 | 4.84 | 0.11 | 9.499 | 12.832 | 4.66 | 7.19 | 4.49 | 0.10 | 14.788 | 18.463 | 3.99 |
| 2.58 | 11.36 | 5.10 | 0.12 | 8.639 | 11.947 | 5.03 | 6.96 | 4.73 | 0.11 | 13.008 | 16.632 | 4.31 |
| 2.84 | 10.65 | 5.40 | 0.13 | 8.051 | 11.340 | 5.42 | 6.71 | 5.00 | 0.11 | 11.772 | 15.355 | 4.64 |
| 3.11 | 9.98 | 5.72 | 0.14 | 7.658 | 10.933 | 5.84 | 6.43 | 5.29 | 0.12 | 10.903 | 14.455 | 5.00 |
| 3.37 | 9.34 | 6.07 | 0.15 | 7.398 | 10.665 | 6.26 | 6.15 | 5.59 | 0.13 | 10.280 | 13.808 | 5.36 |
| 3.63 | 8.75 | 6.43 | 0.16 | 7.219 | 10.481 | 6.67 | 5.86 | 5.90 | 0.14 | 9.811 | 13.321 | 5.72 |
| 3.89 | 8.20 | 6.76 | 0.17 | 7.068 | 10.328 | 7.07 | 5.70 | 6.19 | 0.15 | 9.236 | 12.720 | 6.09 |
| 4.16 | 7.71 | 7.04 | 0.18 | 6.897 | 10.156 | 7.42 | 5.45 | 6.43 | 0.16 | 8.838 | 12.310 | 6.41 |
| 4.42 | 7.27 | 7.24 | 0.19 | 6.671 | 9.930 | 7.72 | 5.22 | 6.62 | 0.16 | 8.418 | 11.878 | 6.69 |
| 4.68 | 6.89 | 7.34 | 0.20 | 6.378 | 9.634 | 7.95 | 5.02 | 6.75 | 0.17 | 7.957 | 11.406 | 6.92 |
| 4.95 | 6.57 | 7.36 | 0.20 | 6.021 | 9.274 | 8.13 | 4.85 | 6.80 | 0.17 | 7.457 | 10.893 | 7.11 |
| 5.21 | 6.29 | 7.29 | 0.20 | 5.622 | 8.870 | 8.25 | 4.70 | 6.80 | 0.18 | 6.930 | 10.353 | 7.27 |
| 5.47 | 6.06 | 7.16 | 0.20 | 5.200 | 8.442 | 8.34 | 4.58 | 6.74 | 0.18 | 6.394 | 9.803 | 7.40 |
| 5.74 | 5.85 | 6.99 | 0.21 | 4.777 | 8.010 | 8.41 | 4.47 | 6.64 | 0.18 | 5.867 | 9.260 | 7.50 |
| 6.00 | 5.68 | 6.78 | 0.21 | 4.365 | 7.590 | 8.46 | 4.38 | 6.51 | 0.19 | 5.360 | 8.737 | 7.60 |



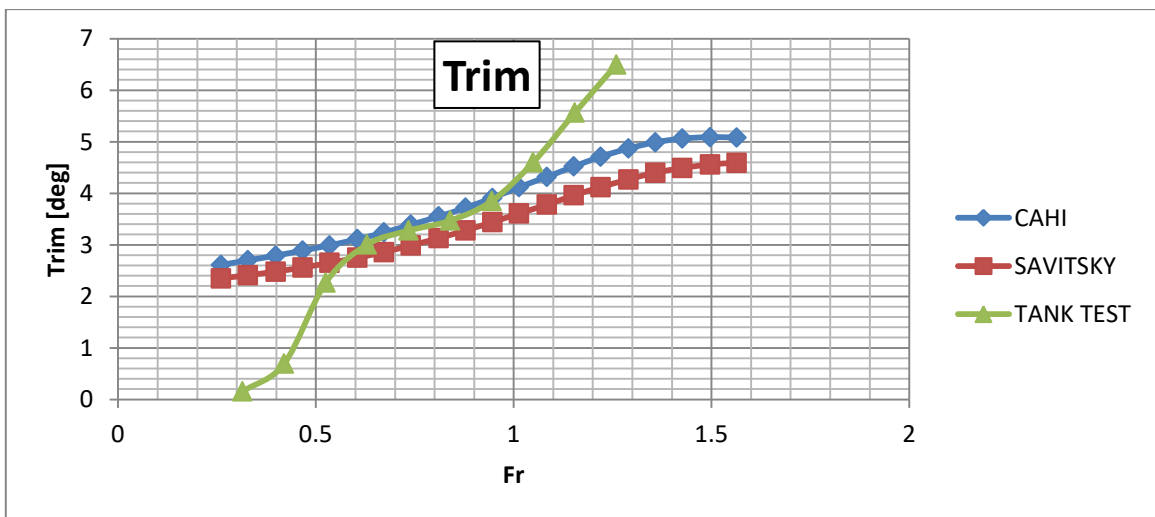
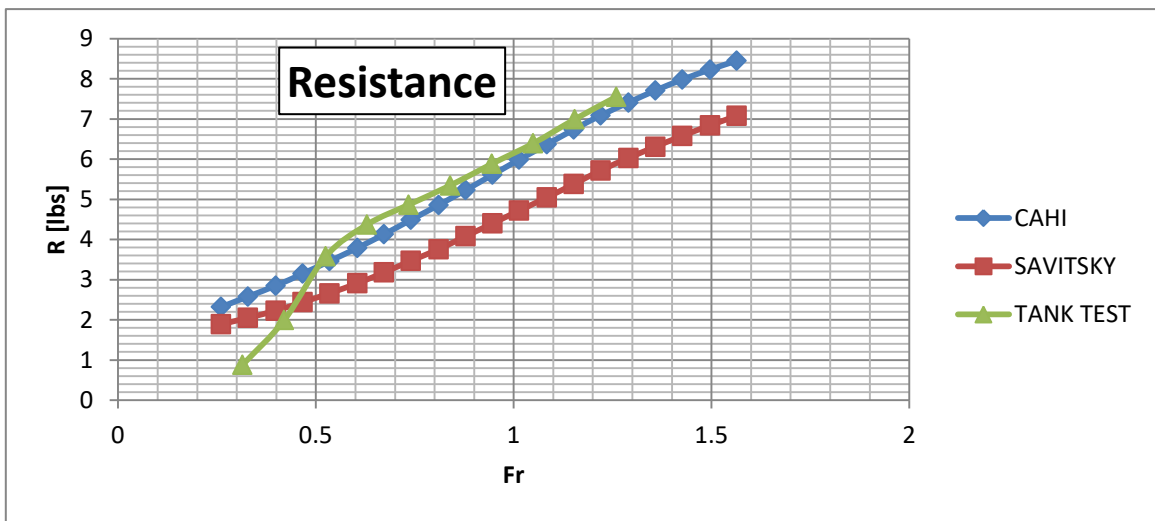
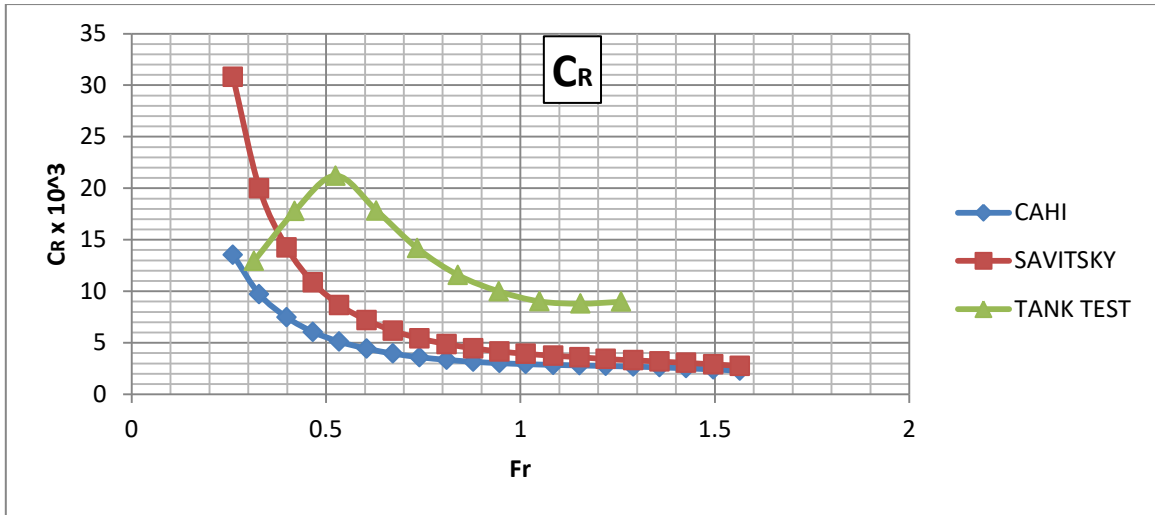
b=25.00 deg Bc=0.21 m Disp=18.45 kp LCG=0.63 m

| ~CAHI~ | | | | | | | ~SAVITSKY~ | | | | | |
|-------------|------------|---------------|------------|-----------------------|-----------------------|------------|------------|---------------|------------|-----------------------|-----------------------|------------|
| Vs [m/s] | Lamda - | Trim [deg] | D/W [%] | Cr 10 ³ | Ct 10 ³ | R [lbs] | Lamda - | Trim [deg] | D/W [%] | Cr 10 ³ | Ct 10 ³ | R [lbs] |
| 1.00 | 21.04 | 3.18 | 0.07 | 19.092 | 22.606 | 2.68 | 8.72 | 2.90 | 0.06 | 41.891 | 46.067 | 2.27 |
| 1.26 | 19.04 | 3.29 | 0.07 | 13.681 | 17.108 | 2.93 | 8.63 | 2.98 | 0.06 | 27.319 | 31.311 | 2.43 |
| 1.53 | 17.51 | 3.40 | 0.08 | 10.554 | 13.915 | 3.19 | 8.52 | 3.08 | 0.06 | 19.584 | 23.438 | 2.62 |
| 1.79 | 16.26 | 3.53 | 0.09 | 8.582 | 11.892 | 3.48 | 8.39 | 3.19 | 0.07 | 15.003 | 18.751 | 2.84 |
| 2.05 | 15.20 | 3.67 | 0.09 | 7.267 | 10.535 | 3.79 | 8.24 | 3.32 | 0.08 | 12.083 | 15.746 | 3.08 |
| 2.32 | 14.27 | 3.84 | 0.10 | 6.357 | 9.591 | 4.12 | 8.06 | 3.46 | 0.08 | 10.124 | 13.718 | 3.34 |
| 2.58 | 13.42 | 4.02 | 0.11 | 5.714 | 8.922 | 4.47 | 7.87 | 3.62 | 0.09 | 8.762 | 12.300 | 3.62 |
| 2.84 | 12.64 | 4.22 | 0.12 | 5.257 | 8.443 | 4.83 | 7.66 | 3.80 | 0.10 | 7.792 | 11.284 | 3.92 |
| 3.11 | 11.91 | 4.44 | 0.13 | 4.933 | 8.104 | 5.20 | 7.53 | 4.00 | 0.10 | 6.994 | 10.440 | 4.25 |
| 3.37 | 11.22 | 4.69 | 0.14 | 4.707 | 7.866 | 5.59 | 7.26 | 4.22 | 0.11 | 6.499 | 9.916 | 4.58 |
| 3.63 | 10.56 | 4.95 | 0.15 | 4.551 | 7.703 | 5.98 | 6.99 | 4.44 | 0.12 | 6.132 | 9.527 | 4.92 |
| 3.89 | 9.94 | 5.22 | 0.16 | 4.441 | 7.587 | 6.37 | 6.71 | 4.67 | 0.13 | 5.851 | 9.228 | 5.25 |
| 4.16 | 9.37 | 5.47 | 0.17 | 4.351 | 7.495 | 6.74 | 6.43 | 4.89 | 0.14 | 5.621 | 8.984 | 5.58 |
| 4.42 | 8.84 | 5.70 | 0.17 | 4.259 | 7.402 | 7.08 | 6.17 | 5.10 | 0.14 | 5.413 | 8.765 | 5.89 |
| 4.68 | 8.36 | 5.88 | 0.18 | 4.148 | 7.289 | 7.39 | 5.92 | 5.27 | 0.15 | 5.203 | 8.545 | 6.18 |
| 4.95 | 7.94 | 6.00 | 0.19 | 4.004 | 7.145 | 7.67 | 5.69 | 5.40 | 0.16 | 4.978 | 8.310 | 6.44 |
| 5.21 | 7.58 | 6.06 | 0.19 | 3.828 | 6.966 | 7.90 | 5.49 | 5.49 | 0.16 | 4.730 | 8.053 | 6.68 |
| 5.47 | 7.26 | 6.06 | 0.20 | 3.623 | 6.758 | 8.09 | 5.32 | 5.53 | 0.17 | 4.463 | 7.775 | 6.89 |
| 5.74 | 6.98 | 6.00 | 0.20 | 3.400 | 6.530 | 8.26 | 5.17 | 5.53 | 0.17 | 4.181 | 7.482 | 7.08 |
| 6.00 | 6.74 | 5.90 | 0.21 | 3.167 | 6.292 | 8.40 | 5.05 | 5.50 | 0.18 | 3.894 | 7.183 | 7.25 |



b=25.00 deg Bc=0.21 m Disp=18.45 kp LCG=0.69 m

| ~CAHI~ | | | | | | | ~SAVITSKY~ | | | | | |
|-------------|------------|---------------|------------|-----------------------|-----------------------|------------|------------|---------------|------------|-----------------------|-----------------------|------------|
| Vs [m/s] | Lamda - | Trim [deg] | D/W [%] | Cr 10 ³ | Ct 10 ³ | R [lbs] | Lamda - | Trim [deg] | D/W [%] | Cr 10 ³ | Ct 10 ³ | R [lbs] |
| 1.00 | 24.28 | 2.61 | 0.06 | 13.544 | 16.964 | 2.32 | 9.57 | 2.35 | 0.05 | 30.803 | 34.899 | 1.89 |
| 1.26 | 21.96 | 2.70 | 0.06 | 9.709 | 13.046 | 2.58 | 9.49 | 2.41 | 0.05 | 19.998 | 23.913 | 2.05 |
| 1.53 | 20.20 | 2.79 | 0.07 | 7.476 | 10.750 | 2.85 | 9.39 | 2.48 | 0.05 | 14.255 | 18.035 | 2.23 |
| 1.79 | 18.78 | 2.89 | 0.08 | 6.057 | 9.281 | 3.15 | 9.28 | 2.56 | 0.06 | 10.847 | 14.521 | 2.44 |
| 2.05 | 17.58 | 2.99 | 0.09 | 5.102 | 8.284 | 3.46 | 9.14 | 2.65 | 0.07 | 8.666 | 12.256 | 2.66 |
| 2.32 | 16.54 | 3.11 | 0.09 | 4.433 | 7.582 | 3.79 | 8.98 | 2.75 | 0.07 | 7.196 | 10.716 | 2.91 |
| 2.58 | 15.60 | 3.24 | 0.10 | 3.952 | 7.074 | 4.13 | 8.80 | 2.86 | 0.08 | 6.164 | 9.628 | 3.18 |
| 2.84 | 14.74 | 3.39 | 0.11 | 3.601 | 6.701 | 4.49 | 8.61 | 2.99 | 0.09 | 5.421 | 8.837 | 3.47 |
| 3.11 | 13.94 | 3.55 | 0.12 | 3.345 | 6.427 | 4.86 | 8.39 | 3.13 | 0.09 | 4.875 | 8.251 | 3.76 |
| 3.37 | 13.19 | 3.72 | 0.13 | 3.158 | 6.226 | 5.23 | 8.16 | 3.28 | 0.10 | 4.469 | 7.812 | 4.08 |
| 3.63 | 12.48 | 3.91 | 0.14 | 3.024 | 6.082 | 5.61 | 7.92 | 3.44 | 0.11 | 4.163 | 7.479 | 4.40 |
| 3.89 | 11.80 | 4.12 | 0.15 | 2.928 | 5.979 | 5.99 | 7.67 | 3.61 | 0.12 | 3.929 | 7.223 | 4.72 |
| 4.16 | 11.16 | 4.32 | 0.16 | 2.858 | 5.904 | 6.37 | 7.41 | 3.78 | 0.12 | 3.747 | 7.022 | 5.05 |
| 4.42 | 10.56 | 4.52 | 0.17 | 2.802 | 5.845 | 6.74 | 7.15 | 3.96 | 0.13 | 3.598 | 6.858 | 5.38 |
| 4.68 | 10.00 | 4.71 | 0.17 | 2.749 | 5.791 | 7.09 | 6.98 | 4.12 | 0.14 | 3.422 | 6.662 | 5.72 |
| 4.95 | 9.49 | 4.87 | 0.18 | 2.689 | 5.730 | 7.41 | 6.73 | 4.27 | 0.15 | 3.303 | 6.534 | 6.03 |
| 5.21 | 9.03 | 4.99 | 0.19 | 2.614 | 5.654 | 7.71 | 6.49 | 4.40 | 0.16 | 3.181 | 6.403 | 6.31 |
| 5.47 | 8.62 | 5.06 | 0.20 | 2.522 | 5.561 | 7.98 | 6.27 | 4.49 | 0.16 | 3.050 | 6.263 | 6.58 |
| 5.74 | 8.26 | 5.09 | 0.20 | 2.413 | 5.450 | 8.23 | 6.08 | 4.56 | 0.17 | 2.908 | 6.113 | 6.84 |
| 6.00 | 7.95 | 5.08 | 0.21 | 2.290 | 5.324 | 8.45 | 5.91 | 4.59 | 0.17 | 2.757 | 5.952 | 7.08 |



Simulation Info:

 28/06/2019 07:47:04 pm

Input Data:

 Ship Speed: from Vs1=1.00 m/s to Vs2=6.00 m/s (for 20 different Ship Speed values)
 Ship Displacement: Disp=12.18 kp
 Breadth at Chine: Bc=0.37 m
 Deadrise Angle: b=25.00 deg
 LCG: from LCG1=0.57 m to LCG2=0.69 m (for 3 different LCG values)

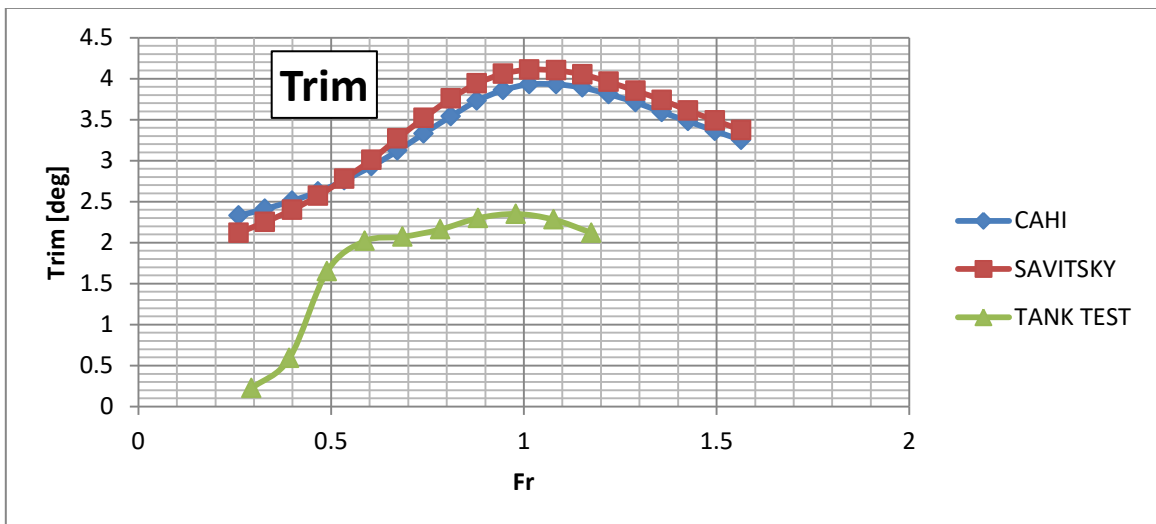
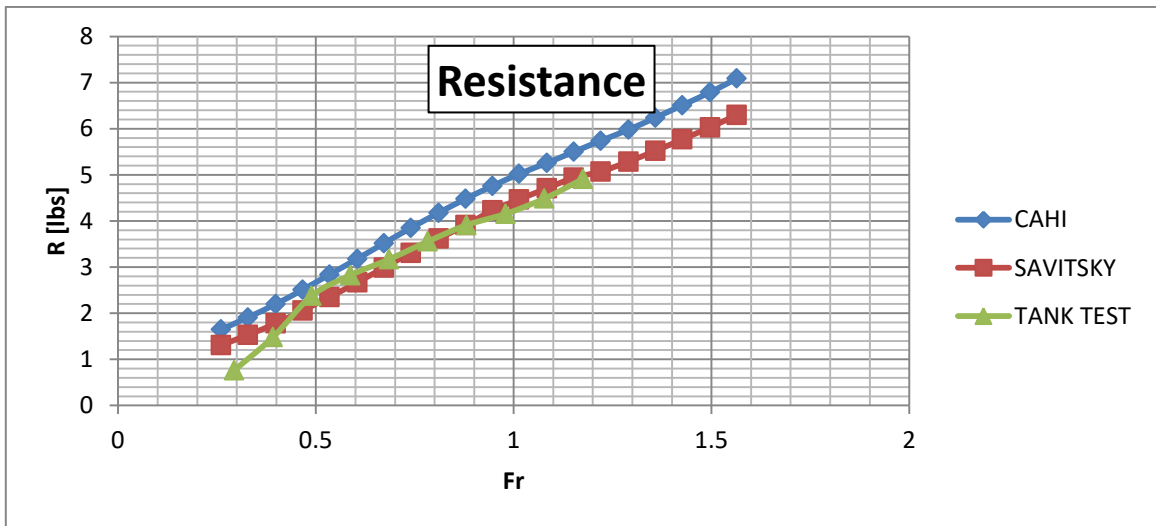
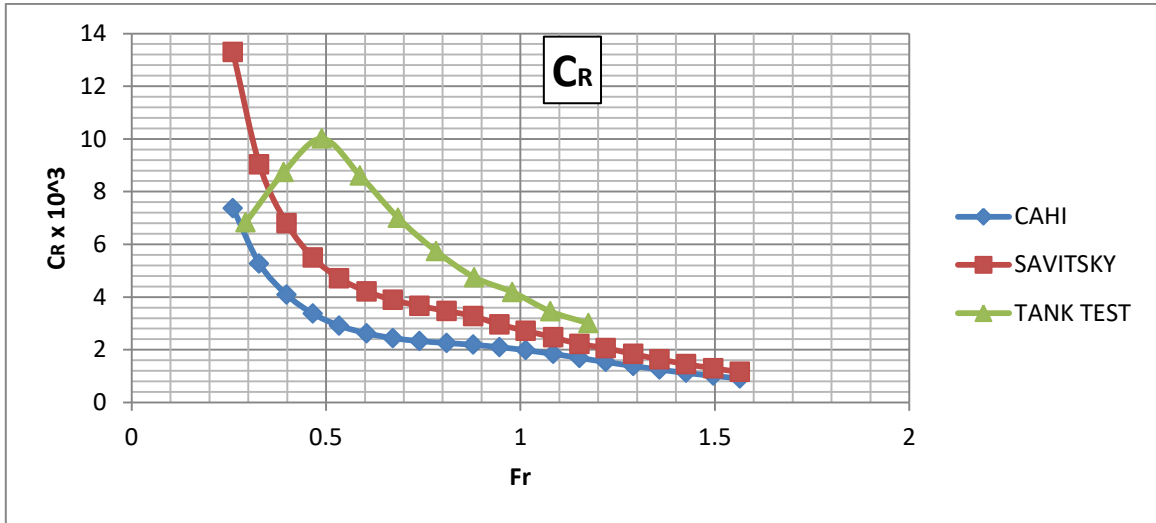
Fresh water properties at 17.80C:

Density=998.54 kg/m³
 Viscosity=1.05987*10⁻⁶ m²/s

Results:

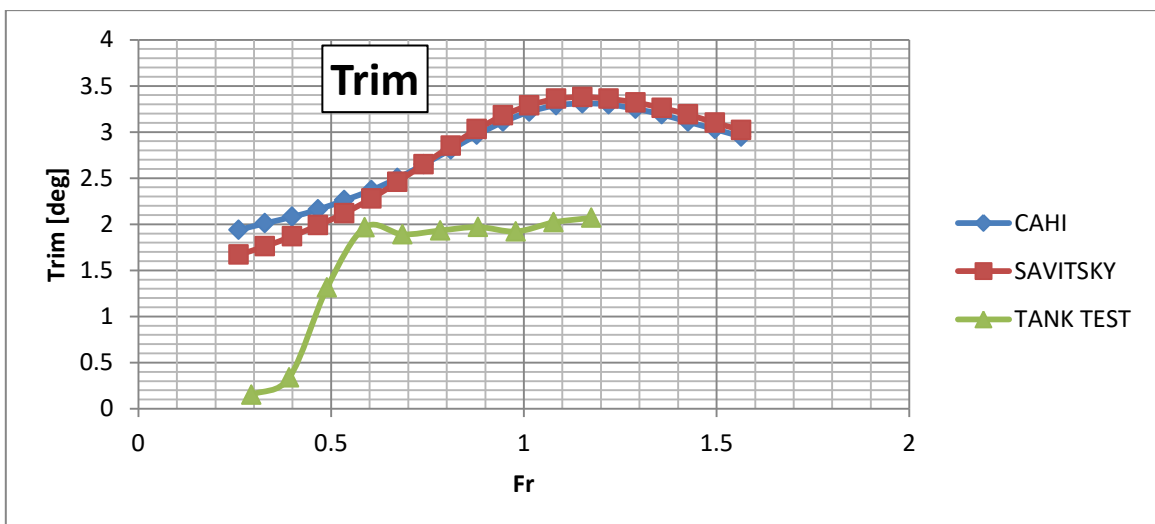
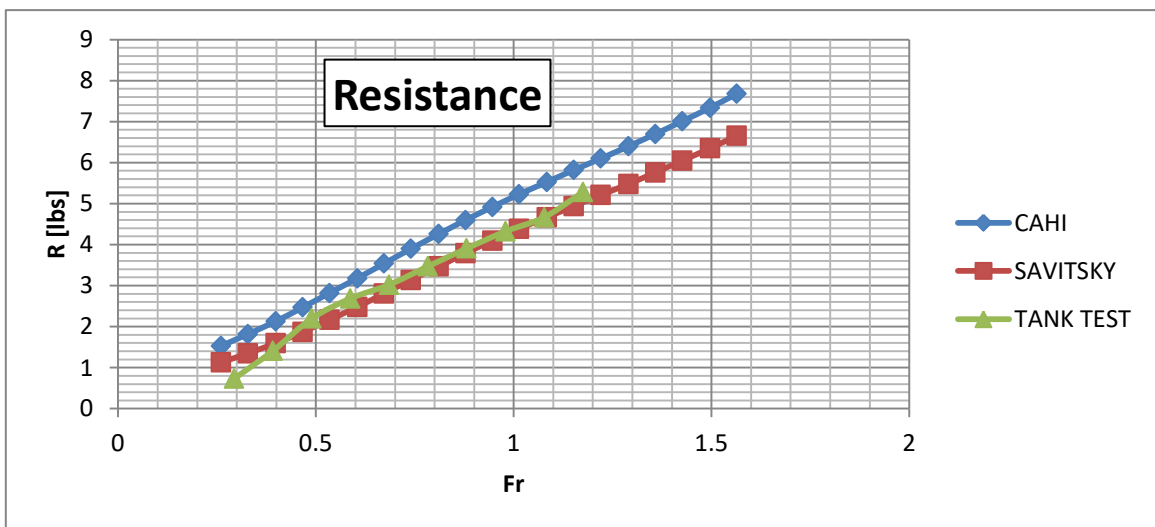
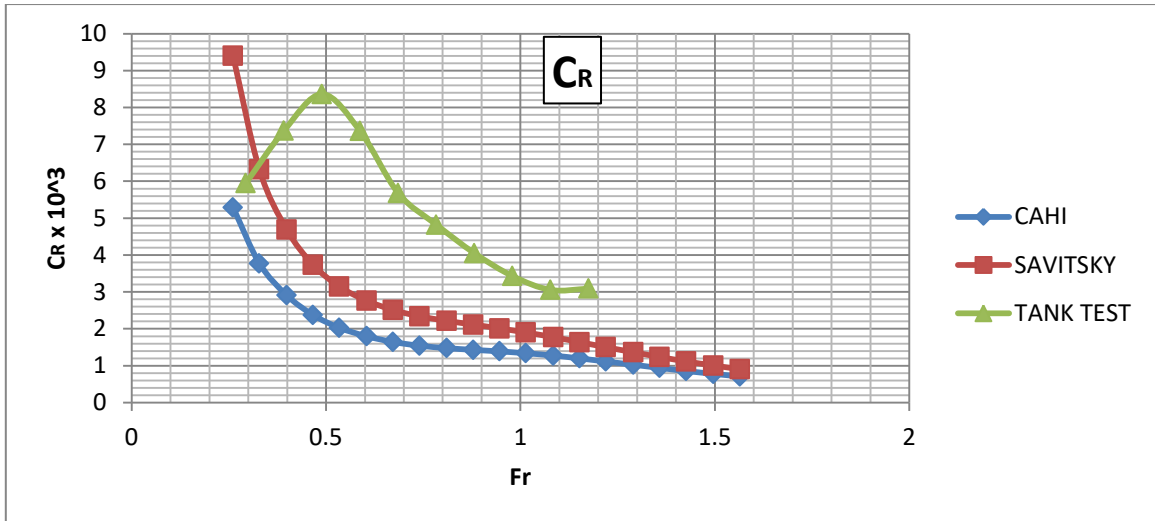
b=25.00 deg Bc=0.37 m Disp=12.18 kp LCG=0.57 m

| ~CAHI~ | | | | | | ~SAVITSKY~ | | | | | | |
|--------|-------|-------|------|-----------------|-----------------|------------|-------|-------|------|-----------------|-----------------|-------|
| Vs | Lamda | Trim | D/W | Cr | Ct | R | Lamda | Trim | D/W | Cr | Ct | R |
| [m/s] | - | [deg] | [%] | 10 ³ | 10 ³ | [lbs] | - | [deg] | [%] | 10 ³ | 10 ³ | [lbs] |
| 1.00 | 8.99 | 2.33 | 0.06 | 7.371 | 11.090 | 1.65 | 4.52 | 2.12 | 0.05 | 13.299 | 17.564 | 1.31 |
| 1.26 | 8.16 | 2.41 | 0.07 | 5.269 | 8.891 | 1.91 | 4.42 | 2.25 | 0.06 | 9.033 | 13.117 | 1.53 |
| 1.53 | 7.50 | 2.51 | 0.08 | 4.086 | 7.637 | 2.20 | 4.30 | 2.40 | 0.07 | 6.791 | 10.746 | 1.78 |
| 1.79 | 6.94 | 2.62 | 0.09 | 3.367 | 6.865 | 2.51 | 4.16 | 2.57 | 0.08 | 5.496 | 9.355 | 2.06 |
| 2.05 | 6.43 | 2.76 | 0.11 | 2.912 | 6.371 | 2.84 | 3.99 | 2.78 | 0.09 | 4.706 | 8.492 | 2.35 |
| 2.32 | 5.95 | 2.93 | 0.12 | 2.622 | 6.053 | 3.18 | 3.81 | 3.01 | 0.10 | 4.209 | 7.943 | 2.67 |
| 2.58 | 5.51 | 3.12 | 0.13 | 2.440 | 5.853 | 3.52 | 3.61 | 3.27 | 0.11 | 3.887 | 7.582 | 2.99 |
| 2.84 | 5.08 | 3.33 | 0.14 | 2.329 | 5.731 | 3.85 | 3.41 | 3.52 | 0.12 | 3.661 | 7.328 | 3.31 |
| 3.11 | 4.69 | 3.54 | 0.16 | 2.255 | 5.653 | 4.18 | 3.22 | 3.76 | 0.13 | 3.471 | 7.116 | 3.62 |
| 3.37 | 4.34 | 3.73 | 0.17 | 2.187 | 5.583 | 4.48 | 3.05 | 3.94 | 0.15 | 3.275 | 6.902 | 3.91 |
| 3.63 | 4.04 | 3.86 | 0.18 | 2.098 | 5.493 | 4.76 | 3.00 | 4.06 | 0.16 | 2.956 | 6.544 | 4.23 |
| 3.89 | 3.79 | 3.93 | 0.19 | 1.981 | 5.372 | 5.02 | 2.87 | 4.11 | 0.17 | 2.720 | 6.289 | 4.47 |
| 4.16 | 3.59 | 3.93 | 0.20 | 1.840 | 5.225 | 5.26 | 2.77 | 4.10 | 0.18 | 2.468 | 6.018 | 4.71 |
| 4.42 | 3.43 | 3.89 | 0.20 | 1.687 | 5.062 | 5.50 | 2.70 | 4.05 | 0.18 | 2.217 | 5.744 | 4.94 |
| 4.68 | 3.29 | 3.81 | 0.21 | 1.532 | 4.896 | 5.74 | 2.53 | 3.96 | 0.19 | 2.058 | 5.589 | 5.07 |
| 4.95 | 3.18 | 3.71 | 0.22 | 1.383 | 4.735 | 5.98 | 2.48 | 3.85 | 0.20 | 1.835 | 5.344 | 5.29 |
| 5.21 | 3.08 | 3.59 | 0.23 | 1.245 | 4.584 | 6.24 | 2.43 | 3.74 | 0.21 | 1.633 | 5.120 | 5.52 |
| 5.47 | 3.00 | 3.48 | 0.24 | 1.120 | 4.444 | 6.51 | 2.39 | 3.61 | 0.21 | 1.453 | 4.918 | 5.77 |
| 5.74 | 2.93 | 3.36 | 0.25 | 1.008 | 4.317 | 6.79 | 2.36 | 3.49 | 0.22 | 1.294 | 4.737 | 6.03 |
| 6.00 | 2.87 | 3.25 | 0.26 | 0.908 | 4.202 | 7.09 | 2.33 | 3.37 | 0.23 | 1.154 | 4.576 | 6.30 |



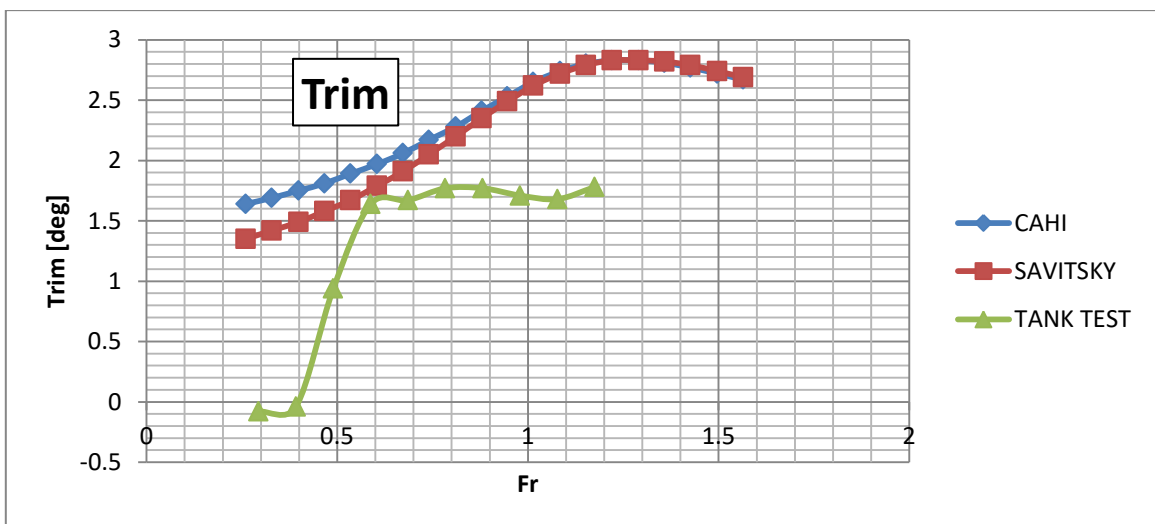
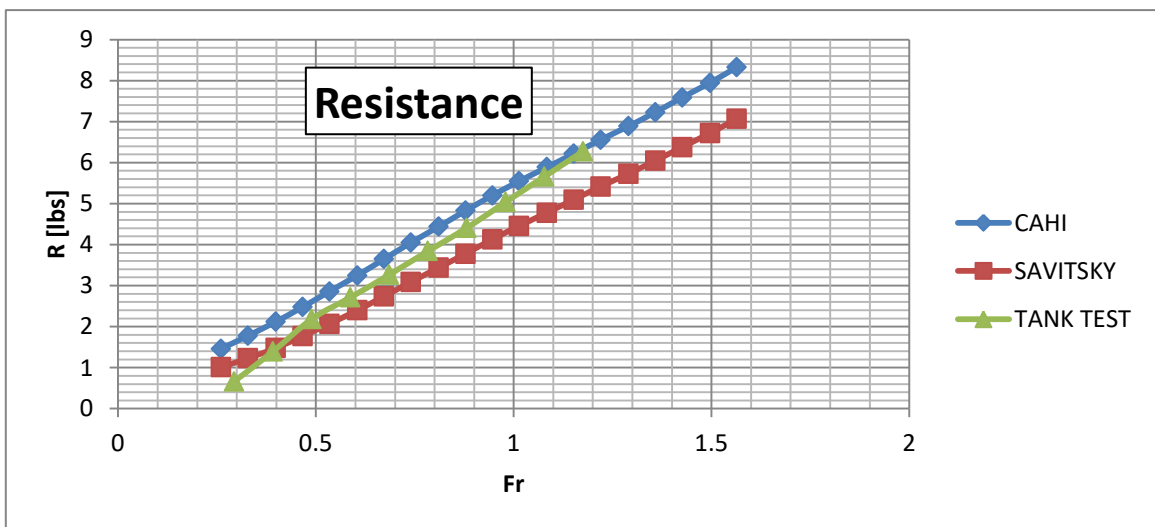
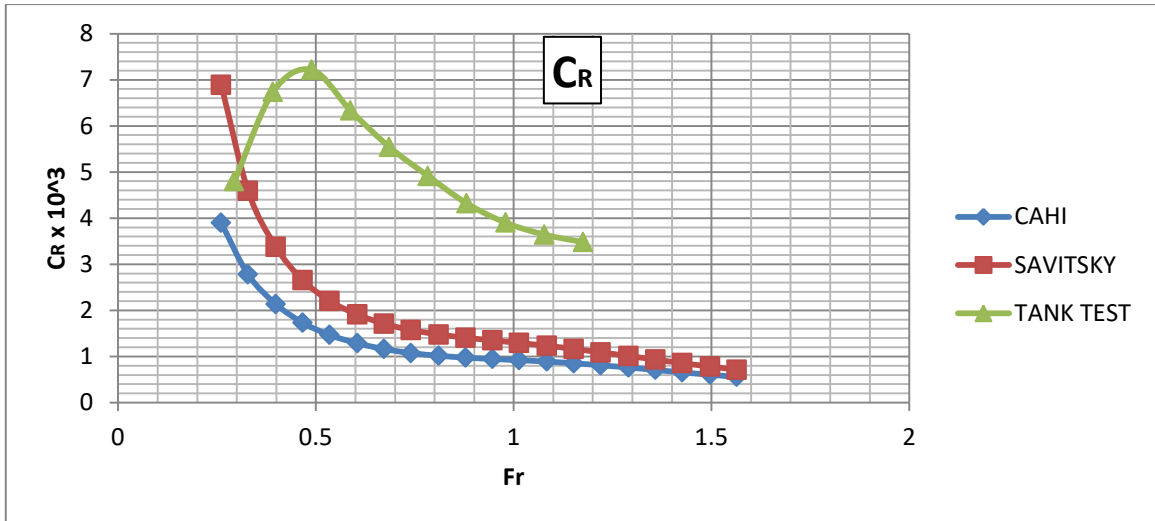
b=25.00 deg Bc=0.37 m Disp=12.18 kp LCG=0.63 m

| ~CAHI~ | | | | | | | ~SAVITSKY~ | | | | | |
|-------------|------------|---------------|------------|-----------------------|-----------------------|------------|------------|---------------|------------|-----------------------|-----------------------|------------|
| Vs [m/s] | Lamda - | Trim [deg] | D/W [%] | Cr 10 ³ | Ct 10 ³ | R [lbs] | Lamda - | Trim [deg] | D/W [%] | Cr 10 ³ | Ct 10 ³ | R [lbs] |
| 1.00 | 10.40 | 1.94 | 0.06 | 5.292 | 8.907 | 1.53 | 5.03 | 1.67 | 0.04 | 9.405 | 13.577 | 1.13 |
| 1.26 | 9.45 | 2.01 | 0.07 | 3.774 | 7.296 | 1.82 | 4.94 | 1.76 | 0.05 | 6.321 | 10.315 | 1.35 |
| 1.53 | 8.70 | 2.08 | 0.08 | 2.909 | 6.362 | 2.13 | 4.83 | 1.87 | 0.06 | 4.691 | 8.554 | 1.60 |
| 1.79 | 8.07 | 2.16 | 0.09 | 2.375 | 5.774 | 2.47 | 4.70 | 1.99 | 0.07 | 3.737 | 7.503 | 1.87 |
| 2.05 | 7.51 | 2.26 | 0.10 | 2.027 | 5.386 | 2.82 | 4.55 | 2.12 | 0.08 | 3.144 | 6.834 | 2.17 |
| 2.32 | 7.00 | 2.37 | 0.12 | 1.797 | 5.125 | 3.18 | 4.38 | 2.28 | 0.09 | 2.761 | 6.394 | 2.48 |
| 2.58 | 6.53 | 2.50 | 0.13 | 1.643 | 4.949 | 3.54 | 4.19 | 2.46 | 0.10 | 2.509 | 6.098 | 2.81 |
| 2.84 | 6.07 | 2.65 | 0.15 | 1.542 | 4.833 | 3.90 | 4.00 | 2.65 | 0.12 | 2.339 | 5.895 | 3.14 |
| 3.11 | 5.65 | 2.81 | 0.16 | 1.476 | 4.759 | 4.26 | 3.80 | 2.85 | 0.13 | 2.216 | 5.748 | 3.47 |
| 3.37 | 5.25 | 2.97 | 0.17 | 1.430 | 4.708 | 4.60 | 3.61 | 3.03 | 0.14 | 2.114 | 5.626 | 3.79 |
| 3.63 | 4.89 | 3.11 | 0.18 | 1.388 | 4.664 | 4.92 | 3.43 | 3.18 | 0.15 | 2.012 | 5.508 | 4.10 |
| 3.89 | 4.57 | 3.22 | 0.19 | 1.338 | 4.613 | 5.23 | 3.27 | 3.29 | 0.16 | 1.900 | 5.381 | 4.39 |
| 4.16 | 4.30 | 3.29 | 0.21 | 1.275 | 4.547 | 5.53 | 3.14 | 3.36 | 0.17 | 1.774 | 5.240 | 4.67 |
| 4.42 | 4.08 | 3.31 | 0.22 | 1.198 | 4.466 | 5.82 | 3.03 | 3.38 | 0.18 | 1.639 | 5.089 | 4.94 |
| 4.68 | 3.89 | 3.30 | 0.23 | 1.113 | 4.374 | 6.10 | 2.93 | 3.36 | 0.19 | 1.501 | 4.934 | 5.21 |
| 4.95 | 3.74 | 3.25 | 0.24 | 1.026 | 4.278 | 6.40 | 2.86 | 3.32 | 0.20 | 1.365 | 4.781 | 5.48 |
| 5.21 | 3.61 | 3.19 | 0.25 | 0.939 | 4.181 | 6.70 | 2.79 | 3.26 | 0.21 | 1.236 | 4.633 | 5.76 |
| 5.47 | 3.50 | 3.11 | 0.26 | 0.856 | 4.087 | 7.01 | 2.74 | 3.19 | 0.23 | 1.116 | 4.494 | 6.05 |
| 5.74 | 3.41 | 3.03 | 0.27 | 0.779 | 3.999 | 7.34 | 2.69 | 3.10 | 0.24 | 1.006 | 4.366 | 6.35 |
| 6.00 | 3.33 | 2.95 | 0.29 | 0.709 | 3.916 | 7.68 | 2.65 | 3.02 | 0.25 | 0.906 | 4.248 | 6.66 |



b=25.00 deg Bc=0.37 m Disp=12.18 kp LCG=0.69 m

| ~CAHI~ | | | | | | | ~SAVITSKY~ | | | | | |
|-------------|------------|---------------|------------|-----------------------|-----------------------|------------|------------|---------------|------------|-----------------------|-----------------------|------------|
| Vs [m/s] | Lamda - | Trim [deg] | D/W [%] | Cr 10 ³ | Ct 10 ³ | R [lbs] | Lamda - | Trim [deg] | D/W [%] | Cr 10 ³ | Ct 10 ³ | R [lbs] |
| 1.00 | 11.90 | 1.64 | 0.05 | 3.895 | 7.418 | 1.46 | 5.54 | 1.35 | 0.04 | 6.887 | 10.978 | 1.01 |
| 1.26 | 10.81 | 1.69 | 0.07 | 2.778 | 6.212 | 1.78 | 5.46 | 1.42 | 0.05 | 4.593 | 8.508 | 1.23 |
| 1.53 | 9.97 | 1.75 | 0.08 | 2.135 | 5.501 | 2.12 | 5.36 | 1.49 | 0.06 | 3.375 | 7.161 | 1.48 |
| 1.79 | 9.26 | 1.81 | 0.09 | 1.732 | 5.046 | 2.48 | 5.24 | 1.58 | 0.07 | 2.658 | 6.345 | 1.77 |
| 2.05 | 8.65 | 1.89 | 0.11 | 1.467 | 4.739 | 2.86 | 5.10 | 1.67 | 0.08 | 2.206 | 5.816 | 2.07 |
| 2.32 | 8.10 | 1.97 | 0.12 | 1.286 | 4.526 | 3.25 | 4.94 | 1.79 | 0.09 | 1.909 | 5.459 | 2.40 |
| 2.58 | 7.59 | 2.06 | 0.14 | 1.161 | 4.377 | 3.65 | 4.77 | 1.91 | 0.10 | 1.709 | 5.211 | 2.74 |
| 2.84 | 7.10 | 2.17 | 0.15 | 1.074 | 4.273 | 4.05 | 4.58 | 2.05 | 0.11 | 1.573 | 5.038 | 3.09 |
| 3.11 | 6.65 | 2.28 | 0.17 | 1.016 | 4.202 | 4.44 | 4.38 | 2.20 | 0.13 | 1.478 | 4.914 | 3.44 |
| 3.37 | 6.21 | 2.41 | 0.18 | 0.975 | 4.154 | 4.83 | 4.19 | 2.35 | 0.14 | 1.408 | 4.822 | 3.78 |
| 3.63 | 5.81 | 2.53 | 0.19 | 0.946 | 4.120 | 5.20 | 3.99 | 2.49 | 0.15 | 1.349 | 4.747 | 4.13 |
| 3.89 | 5.44 | 2.65 | 0.21 | 0.919 | 4.092 | 5.55 | 3.81 | 2.62 | 0.17 | 1.293 | 4.676 | 4.46 |
| 4.16 | 5.11 | 2.74 | 0.22 | 0.889 | 4.060 | 5.89 | 3.65 | 2.72 | 0.18 | 1.232 | 4.602 | 4.78 |
| 4.42 | 4.82 | 2.80 | 0.23 | 0.853 | 4.022 | 6.22 | 3.50 | 2.79 | 0.19 | 1.164 | 4.520 | 5.10 |
| 4.68 | 4.58 | 2.83 | 0.24 | 0.809 | 3.975 | 6.56 | 3.38 | 2.83 | 0.20 | 1.089 | 4.433 | 5.42 |
| 4.95 | 4.38 | 2.83 | 0.26 | 0.760 | 3.920 | 6.89 | 3.28 | 2.83 | 0.21 | 1.011 | 4.340 | 5.73 |
| 5.21 | 4.21 | 2.81 | 0.27 | 0.708 | 3.862 | 7.23 | 3.19 | 2.82 | 0.23 | 0.932 | 4.246 | 6.05 |
| 5.47 | 4.06 | 2.77 | 0.28 | 0.655 | 3.801 | 7.59 | 3.11 | 2.79 | 0.24 | 0.855 | 4.154 | 6.38 |
| 5.74 | 3.94 | 2.72 | 0.30 | 0.604 | 3.741 | 7.95 | 3.05 | 2.74 | 0.25 | 0.782 | 4.065 | 6.72 |
| 6.00 | 3.83 | 2.67 | 0.31 | 0.556 | 3.683 | 8.33 | 3.00 | 2.69 | 0.26 | 0.713 | 3.980 | 7.07 |



Simulation Info:

 28/06/2019 07:47:29 pm

Input Data:

 Ship Speed: from Vs1=1.00 m/s to Vs2=6.00 m/s (for 20 different Ship Speed values)

Ship Displacement: Disp=16.30 kp

Breadth at Chine: Bc=0.37 m

Deadrise Angle: b=25.00 deg

LCG: from LCG1=0.57 m to LCG2=0.69 m (for 3 different LCG values)

Fresh water properties at 17.80C:

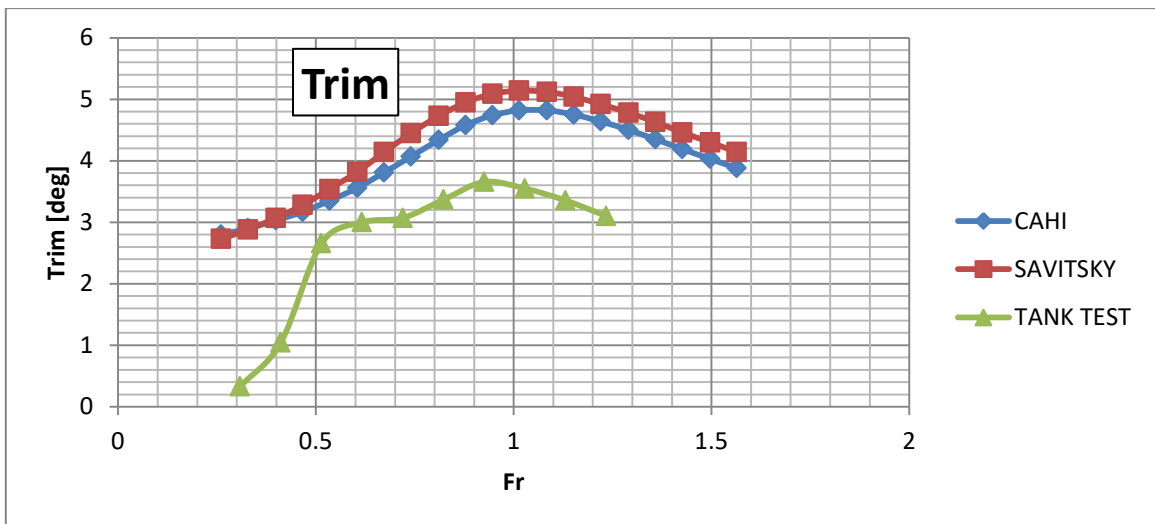
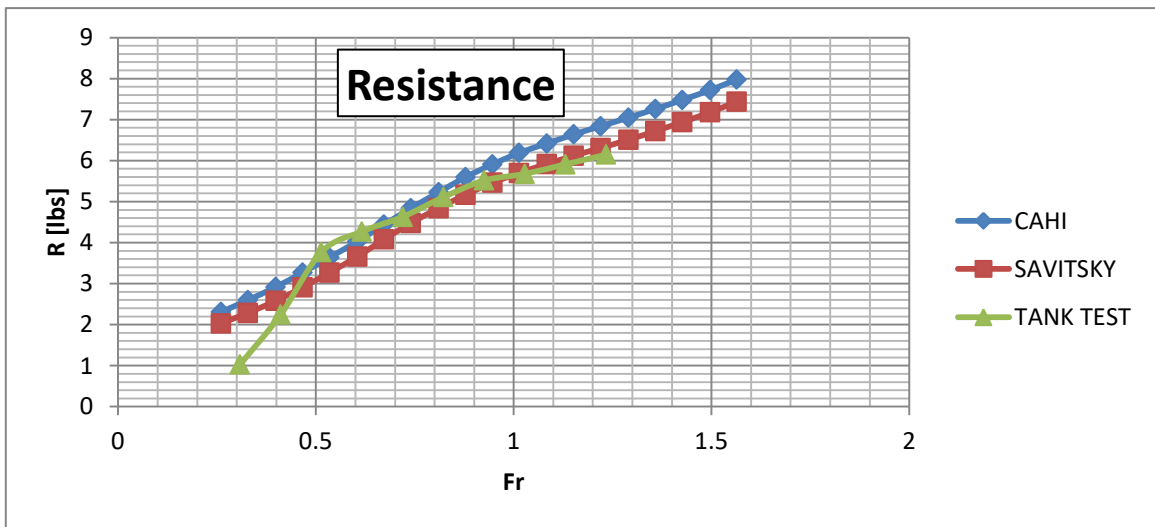
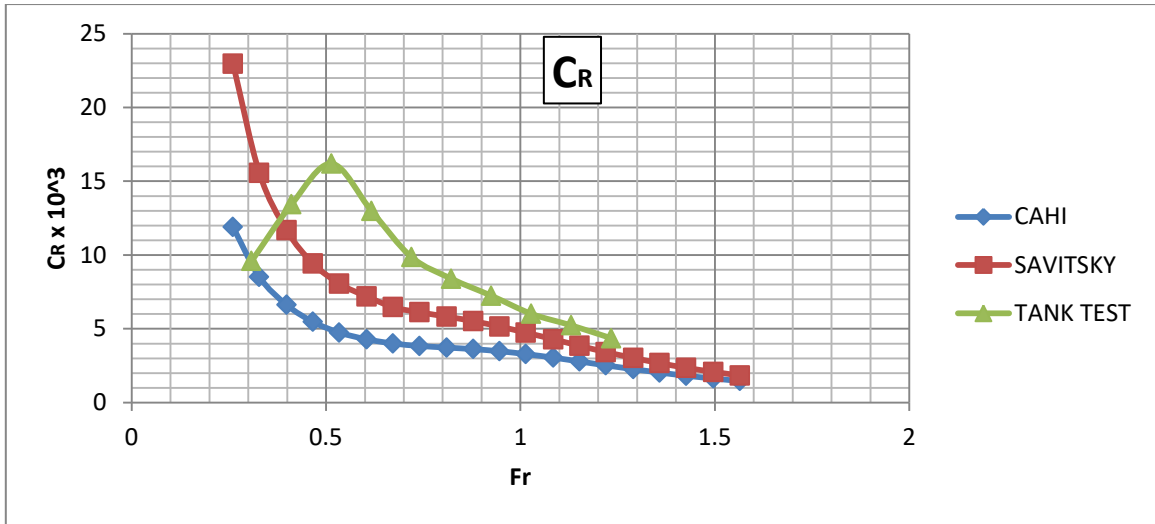
Density=998.54 kg/m³

Viscosity=1.05987*10⁻⁶ m²/s

Results:

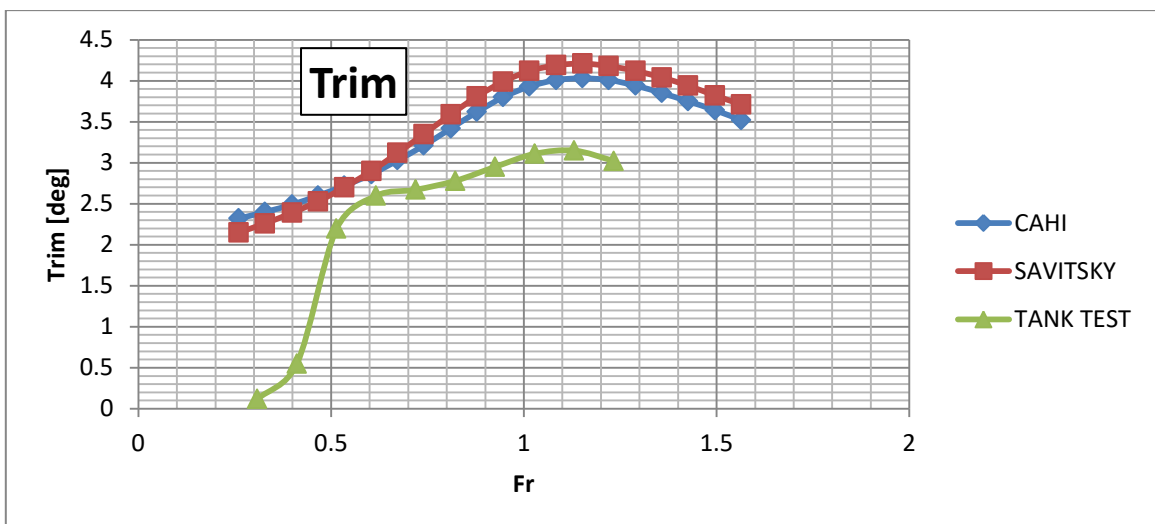
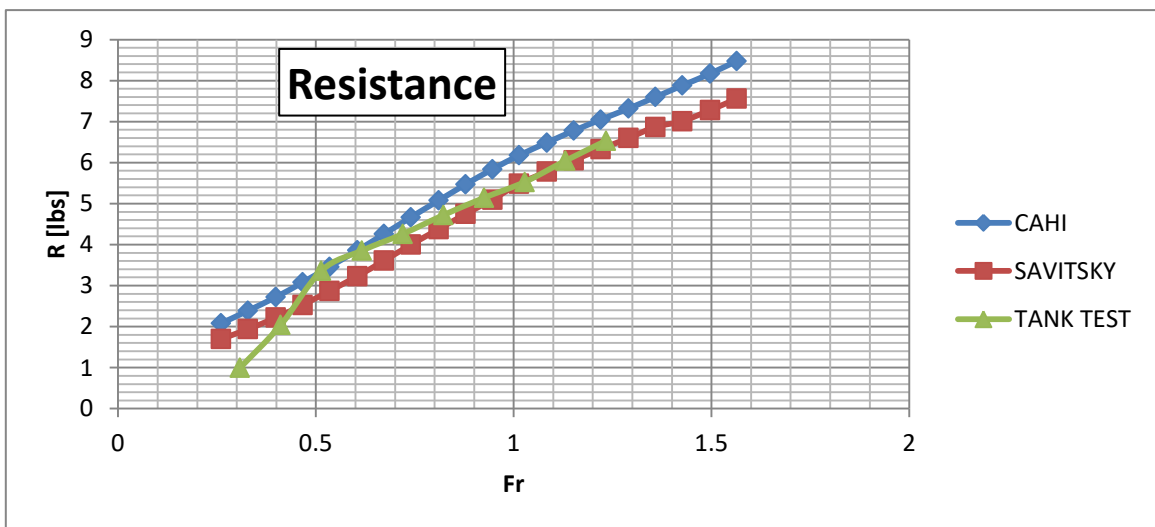
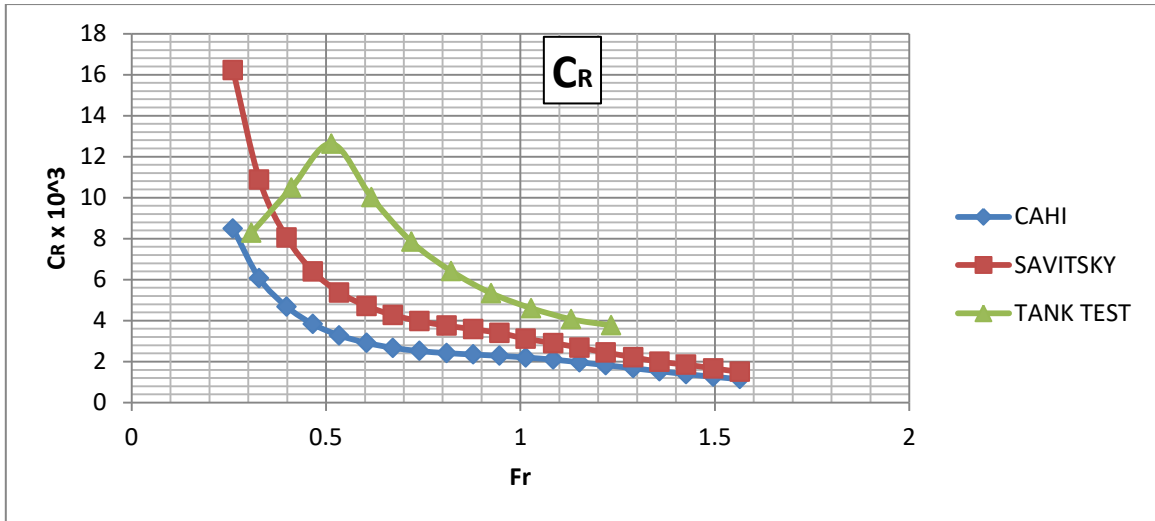
 b=25.00 deg Bc=0.37 m Disp=16.30 kp LCG=0.57 m

| ~CAHI~ | | | | | | | ~SAVITSKY~ | | | | | |
|--------|-------|-------|------|-----------------|-----------------|-------|------------|-------|------|-----------------|-----------------|-------|
| Vs | Lamda | Trim | D/W | Cr | Ct | R | Lamda | Trim | D/W | Cr | Ct | R |
| [m/s] | - | [deg] | [%] | 10 ³ | 10 ³ | [lbs] | - | [deg] | [%] | 10 ³ | 10 ³ | [lbs] |
| 1.00 | 8.99 | 2.80 | 0.06 | 11.890 | 15.610 | 2.31 | 4.52 | 2.73 | 0.06 | 22.968 | 27.235 | 2.03 |
| 1.26 | 8.16 | 2.90 | 0.07 | 8.513 | 12.136 | 2.60 | 4.42 | 2.88 | 0.06 | 15.561 | 19.647 | 2.29 |
| 1.53 | 7.50 | 3.03 | 0.08 | 6.617 | 10.169 | 2.92 | 4.30 | 3.07 | 0.07 | 11.672 | 15.628 | 2.58 |
| 1.79 | 6.94 | 3.17 | 0.09 | 5.468 | 8.967 | 3.27 | 4.16 | 3.28 | 0.08 | 9.425 | 13.285 | 2.91 |
| 2.05 | 6.43 | 3.35 | 0.10 | 4.745 | 8.205 | 3.64 | 3.99 | 3.54 | 0.09 | 8.053 | 11.841 | 3.27 |
| 2.32 | 5.95 | 3.56 | 0.11 | 4.287 | 7.719 | 4.03 | 3.81 | 3.82 | 0.10 | 7.188 | 10.924 | 3.66 |
| 2.58 | 5.51 | 3.81 | 0.12 | 4.006 | 7.420 | 4.44 | 3.70 | 4.14 | 0.11 | 6.467 | 10.146 | 4.08 |
| 2.84 | 5.08 | 4.07 | 0.13 | 3.838 | 7.242 | 4.84 | 3.48 | 4.45 | 0.12 | 6.118 | 9.774 | 4.48 |
| 3.11 | 4.69 | 4.34 | 0.15 | 3.728 | 7.128 | 5.23 | 3.26 | 4.73 | 0.13 | 5.827 | 9.466 | 4.84 |
| 3.37 | 4.34 | 4.58 | 0.16 | 3.623 | 7.021 | 5.60 | 3.07 | 4.95 | 0.14 | 5.517 | 9.142 | 5.17 |
| 3.63 | 4.04 | 4.74 | 0.16 | 3.480 | 6.877 | 5.91 | 2.91 | 5.09 | 0.15 | 5.154 | 8.764 | 5.46 |
| 3.89 | 3.79 | 4.82 | 0.17 | 3.285 | 6.678 | 6.19 | 2.79 | 5.14 | 0.16 | 4.738 | 8.332 | 5.70 |
| 4.16 | 3.59 | 4.82 | 0.18 | 3.046 | 6.433 | 6.42 | 2.69 | 5.12 | 0.16 | 4.293 | 7.867 | 5.92 |
| 4.42 | 3.43 | 4.75 | 0.18 | 2.785 | 6.163 | 6.64 | 2.61 | 5.04 | 0.17 | 3.847 | 7.398 | 6.12 |
| 4.68 | 3.29 | 4.64 | 0.19 | 2.521 | 5.888 | 6.84 | 2.55 | 4.92 | 0.18 | 3.420 | 6.948 | 6.31 |
| 4.95 | 3.18 | 4.50 | 0.20 | 2.268 | 5.622 | 7.05 | 2.51 | 4.78 | 0.18 | 3.027 | 6.529 | 6.51 |
| 5.21 | 3.08 | 4.35 | 0.20 | 2.033 | 5.374 | 7.26 | 2.48 | 4.63 | 0.19 | 2.672 | 6.148 | 6.72 |
| 5.47 | 3.00 | 4.19 | 0.21 | 1.821 | 5.147 | 7.48 | 2.45 | 4.46 | 0.19 | 2.357 | 5.808 | 6.94 |
| 5.74 | 2.93 | 4.03 | 0.21 | 1.631 | 4.942 | 7.72 | 2.44 | 4.30 | 0.20 | 2.081 | 5.506 | 7.18 |
| 6.00 | 2.87 | 3.88 | 0.22 | 1.462 | 4.759 | 7.98 | 2.42 | 4.14 | 0.21 | 1.840 | 5.240 | 7.44 |



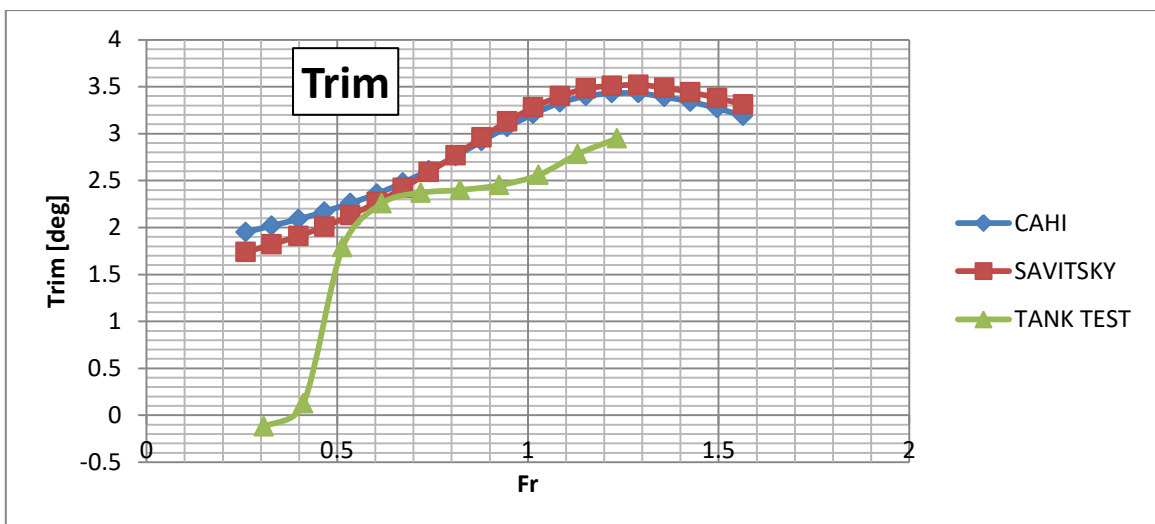
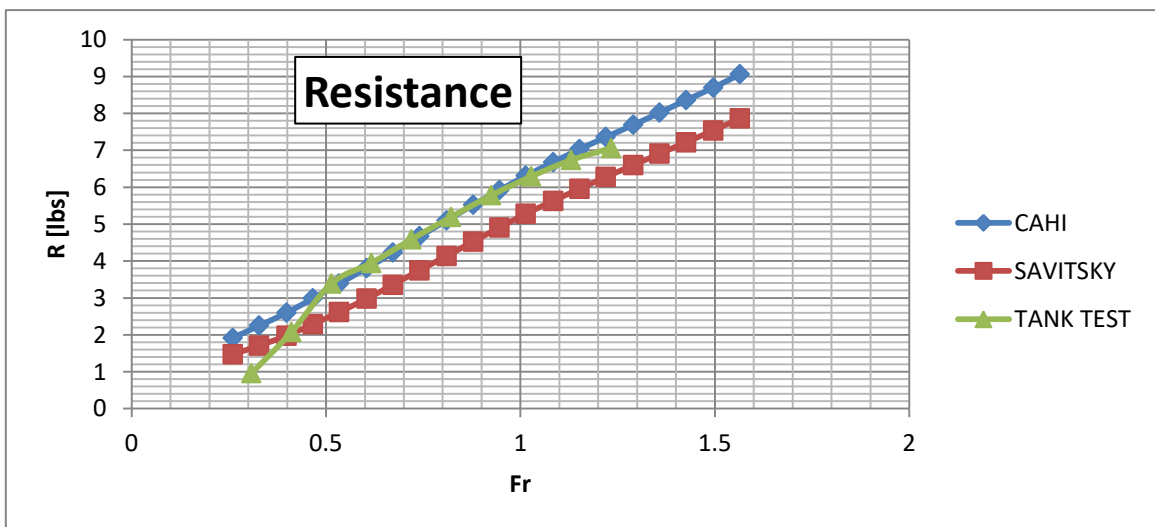
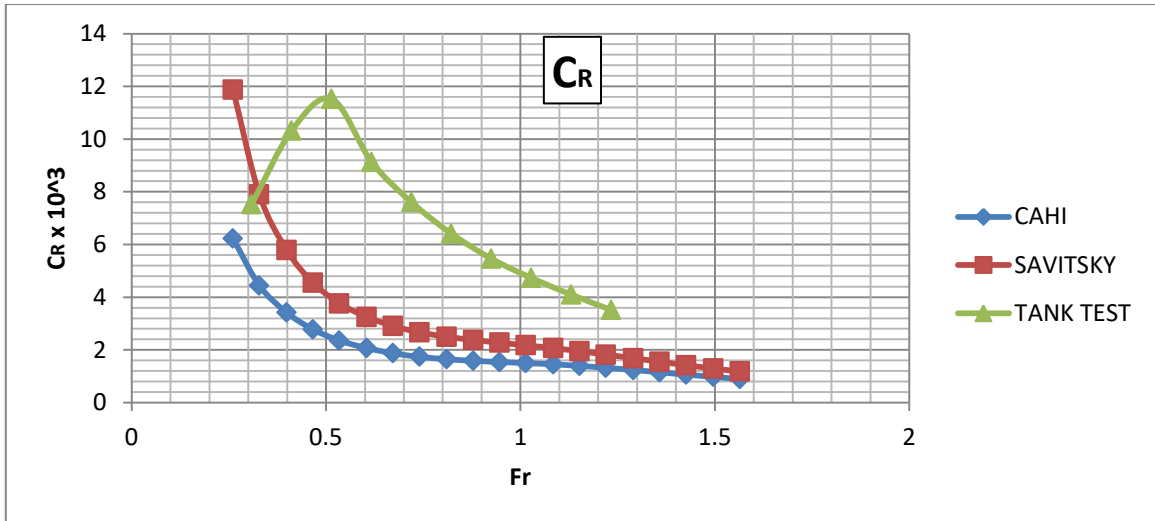
b=25.00 deg Bc=0.37 m Disp=16.30 kp LCG=0.63 m

| ~CAHI~ | | | | | | | ~SAVITSKY~ | | | | | |
|-------------|------------|---------------|------------|-----------------------|-----------------------|------------|------------|---------------|------------|-----------------------|-----------------------|------------|
| Vs [m/s] | Lamda - | Trim [deg] | D/W [%] | Cr 10 ³ | Ct 10 ³ | R [lbs] | Lamda - | Trim [deg] | D/W [%] | Cr 10 ³ | Ct 10 ³ | R [lbs] |
| 1.00 | 10.40 | 2.32 | 0.06 | 8.493 | 12.109 | 2.08 | 5.03 | 2.15 | 0.05 | 16.227 | 20.400 | 1.70 |
| 1.26 | 9.45 | 2.40 | 0.07 | 6.061 | 9.584 | 2.39 | 4.94 | 2.26 | 0.05 | 10.878 | 14.872 | 1.94 |
| 1.53 | 8.70 | 2.49 | 0.08 | 4.680 | 8.133 | 2.72 | 4.83 | 2.39 | 0.06 | 8.052 | 11.916 | 2.22 |
| 1.79 | 8.07 | 2.60 | 0.09 | 3.827 | 7.228 | 3.08 | 4.70 | 2.53 | 0.07 | 6.399 | 10.166 | 2.53 |
| 2.05 | 7.51 | 2.72 | 0.10 | 3.276 | 6.635 | 3.46 | 4.55 | 2.70 | 0.08 | 5.371 | 9.062 | 2.87 |
| 2.32 | 7.00 | 2.86 | 0.11 | 2.911 | 6.240 | 3.86 | 4.38 | 2.90 | 0.09 | 4.707 | 8.341 | 3.23 |
| 2.58 | 6.53 | 3.03 | 0.12 | 2.670 | 5.977 | 4.26 | 4.19 | 3.12 | 0.10 | 4.268 | 7.858 | 3.61 |
| 2.84 | 6.07 | 3.21 | 0.13 | 2.514 | 5.807 | 4.67 | 4.00 | 3.35 | 0.11 | 3.971 | 7.529 | 4.00 |
| 3.11 | 5.65 | 3.42 | 0.14 | 2.415 | 5.698 | 5.08 | 3.80 | 3.59 | 0.12 | 3.756 | 7.288 | 4.38 |
| 3.37 | 5.25 | 3.62 | 0.15 | 2.345 | 5.624 | 5.47 | 3.61 | 3.81 | 0.13 | 3.576 | 7.089 | 4.75 |
| 3.63 | 4.89 | 3.80 | 0.16 | 2.280 | 5.558 | 5.84 | 3.43 | 3.99 | 0.14 | 3.397 | 6.894 | 5.10 |
| 3.89 | 4.57 | 3.93 | 0.17 | 2.200 | 5.476 | 6.18 | 3.36 | 4.12 | 0.15 | 3.114 | 6.579 | 5.49 |
| 4.16 | 4.30 | 4.01 | 0.18 | 2.095 | 5.369 | 6.49 | 3.22 | 4.19 | 0.16 | 2.904 | 6.354 | 5.78 |
| 4.42 | 4.08 | 4.03 | 0.19 | 1.967 | 5.237 | 6.78 | 3.11 | 4.21 | 0.17 | 2.676 | 6.110 | 6.06 |
| 4.68 | 3.89 | 4.01 | 0.20 | 1.824 | 5.087 | 7.05 | 3.02 | 4.18 | 0.18 | 2.441 | 5.857 | 6.33 |
| 4.95 | 3.74 | 3.94 | 0.20 | 1.675 | 4.930 | 7.32 | 2.95 | 4.12 | 0.18 | 2.209 | 5.606 | 6.60 |
| 5.21 | 3.61 | 3.85 | 0.21 | 1.529 | 4.773 | 7.60 | 2.89 | 4.04 | 0.19 | 1.989 | 5.366 | 6.87 |
| 5.47 | 3.50 | 3.75 | 0.22 | 1.389 | 4.622 | 7.88 | 2.74 | 3.94 | 0.20 | 1.854 | 5.234 | 7.01 |
| 5.74 | 3.41 | 3.64 | 0.23 | 1.259 | 4.481 | 8.17 | 2.69 | 3.82 | 0.20 | 1.667 | 5.029 | 7.28 |
| 6.00 | 3.33 | 3.52 | 0.24 | 1.141 | 4.350 | 8.48 | 2.65 | 3.71 | 0.21 | 1.499 | 4.842 | 7.56 |



b=25.00 deg Bc=0.37 m Disp=16.30 kp LCG=0.69 m

| ~CAHI~ | | | | | | | ~SAVITSKY~ | | | | | |
|-------------|------------|---------------|------------|-----------------------|-----------------------|------------|------------|---------------|------------|-----------------------|-----------------------|------------|
| Vs [m/s] | Lamda - | Trim [deg] | D/W [%] | Cr 10 ³ | Ct 10 ³ | R [lbs] | Lamda - | Trim [deg] | D/W [%] | Cr 10 ³ | Ct 10 ³ | R [lbs] |
| 1.00 | 11.90 | 1.95 | 0.05 | 6.229 | 9.753 | 1.92 | 5.54 | 1.74 | 0.04 | 11.876 | 15.967 | 1.47 |
| 1.26 | 10.81 | 2.02 | 0.06 | 4.442 | 7.876 | 2.25 | 5.46 | 1.82 | 0.05 | 7.899 | 11.814 | 1.71 |
| 1.53 | 9.97 | 2.09 | 0.07 | 3.416 | 6.783 | 2.60 | 5.36 | 1.91 | 0.06 | 5.790 | 9.576 | 1.98 |
| 1.79 | 9.26 | 2.17 | 0.08 | 2.776 | 6.090 | 2.99 | 5.24 | 2.01 | 0.06 | 4.548 | 8.235 | 2.29 |
| 2.05 | 8.65 | 2.26 | 0.09 | 2.354 | 5.627 | 3.39 | 5.10 | 2.13 | 0.07 | 3.765 | 7.376 | 2.62 |
| 2.32 | 8.10 | 2.36 | 0.11 | 2.068 | 5.309 | 3.81 | 4.94 | 2.27 | 0.08 | 3.251 | 6.801 | 2.98 |
| 2.58 | 7.59 | 2.48 | 0.12 | 1.871 | 5.088 | 4.23 | 4.77 | 2.42 | 0.09 | 2.904 | 6.407 | 3.36 |
| 2.84 | 7.10 | 2.61 | 0.13 | 1.737 | 4.936 | 4.67 | 4.58 | 2.59 | 0.10 | 2.667 | 6.133 | 3.75 |
| 3.11 | 6.65 | 2.76 | 0.14 | 1.646 | 4.833 | 5.10 | 4.38 | 2.77 | 0.12 | 2.500 | 5.938 | 4.14 |
| 3.37 | 6.21 | 2.92 | 0.15 | 1.585 | 4.765 | 5.52 | 4.19 | 2.96 | 0.13 | 2.377 | 5.792 | 4.53 |
| 3.63 | 5.81 | 3.07 | 0.16 | 1.540 | 4.716 | 5.92 | 3.99 | 3.13 | 0.14 | 2.274 | 5.672 | 4.91 |
| 3.89 | 5.44 | 3.21 | 0.18 | 1.499 | 4.673 | 6.31 | 3.81 | 3.28 | 0.15 | 2.174 | 5.558 | 5.28 |
| 4.16 | 5.11 | 3.33 | 0.19 | 1.452 | 4.624 | 6.68 | 3.65 | 3.40 | 0.16 | 2.067 | 5.438 | 5.63 |
| 4.42 | 4.82 | 3.40 | 0.20 | 1.392 | 4.562 | 7.03 | 3.50 | 3.48 | 0.17 | 1.949 | 5.307 | 5.96 |
| 4.68 | 4.58 | 3.43 | 0.20 | 1.319 | 4.486 | 7.36 | 3.38 | 3.51 | 0.17 | 1.820 | 5.165 | 6.28 |
| 4.95 | 4.38 | 3.43 | 0.21 | 1.237 | 4.399 | 7.69 | 3.28 | 3.52 | 0.18 | 1.686 | 5.016 | 6.60 |
| 5.21 | 4.21 | 3.39 | 0.22 | 1.149 | 4.305 | 8.02 | 3.19 | 3.49 | 0.19 | 1.551 | 4.866 | 6.91 |
| 5.47 | 4.06 | 3.34 | 0.23 | 1.061 | 4.209 | 8.36 | 3.11 | 3.44 | 0.20 | 1.419 | 4.719 | 7.22 |
| 5.74 | 3.94 | 3.27 | 0.24 | 0.975 | 4.114 | 8.70 | 3.05 | 3.38 | 0.21 | 1.294 | 4.579 | 7.54 |
| 6.00 | 3.83 | 3.19 | 0.25 | 0.894 | 4.022 | 9.06 | 3.00 | 3.31 | 0.22 | 1.178 | 4.446 | 7.87 |



Simulation Info:

28/06/2019 07:49:30 pm

Input Data:

Ship Speed: from Vs1=1.00 m/s to Vs2=6.00 m/s (for 20 different Ship Speed values)

Ship Displacement: Disp=23.41 kp

Breadth at Chine: Bc=0.37 m

Deadrise Angle: b=25.00 deg

LCG: from LCG1=0.57 m to LCG2=0.69 m (for 3 different LCG values)

Fresh water properties at 17.80C:

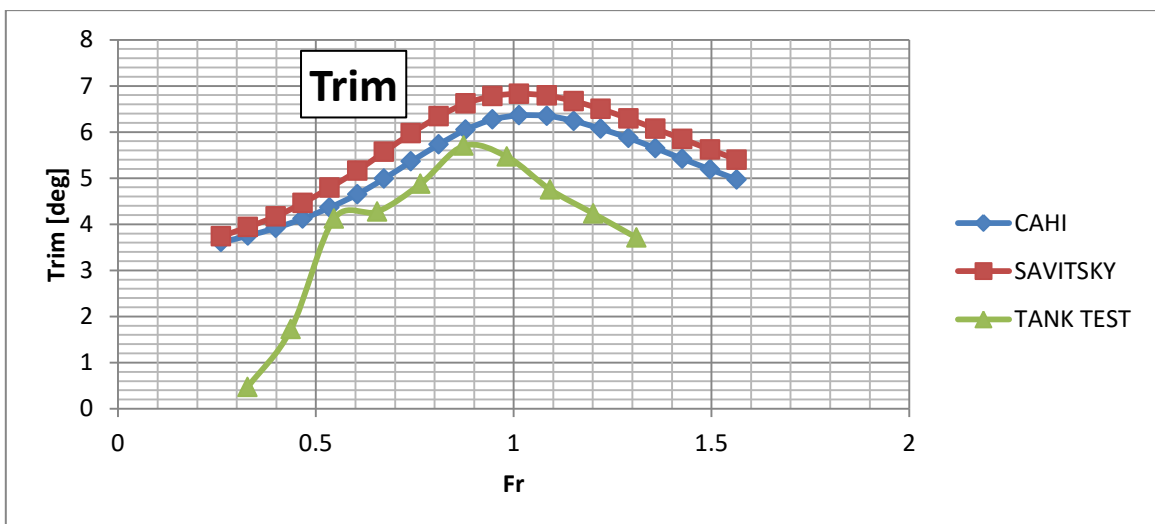
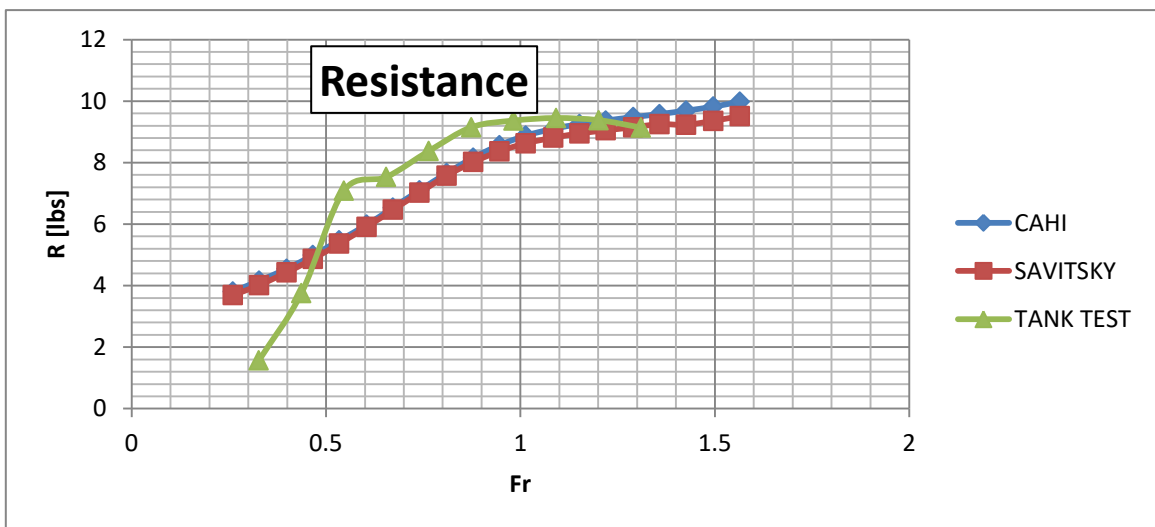
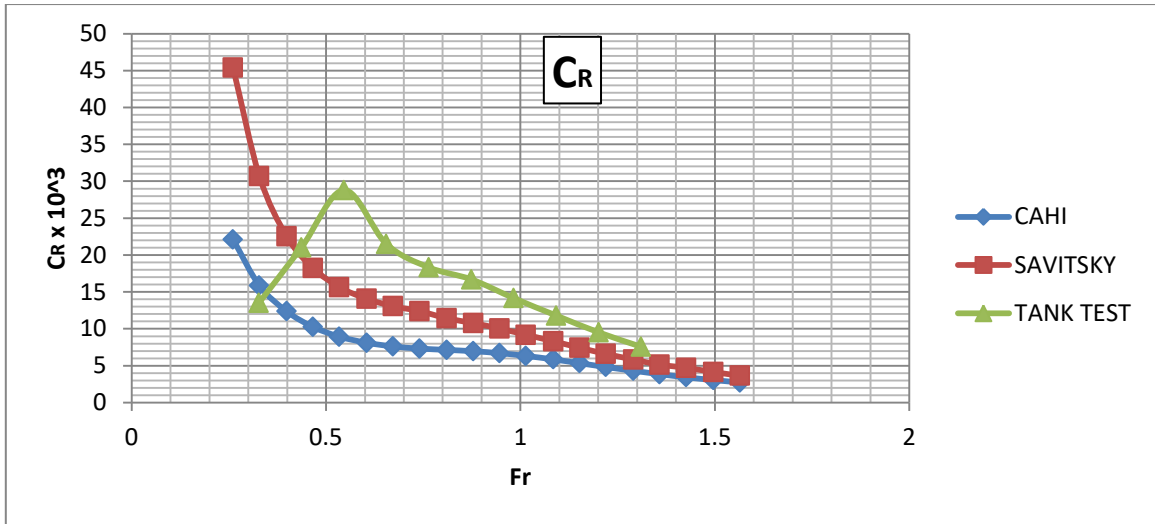
Density=998.54 kg/m³

Viscosity=1.05987*10⁻⁶ m²/s

Results:

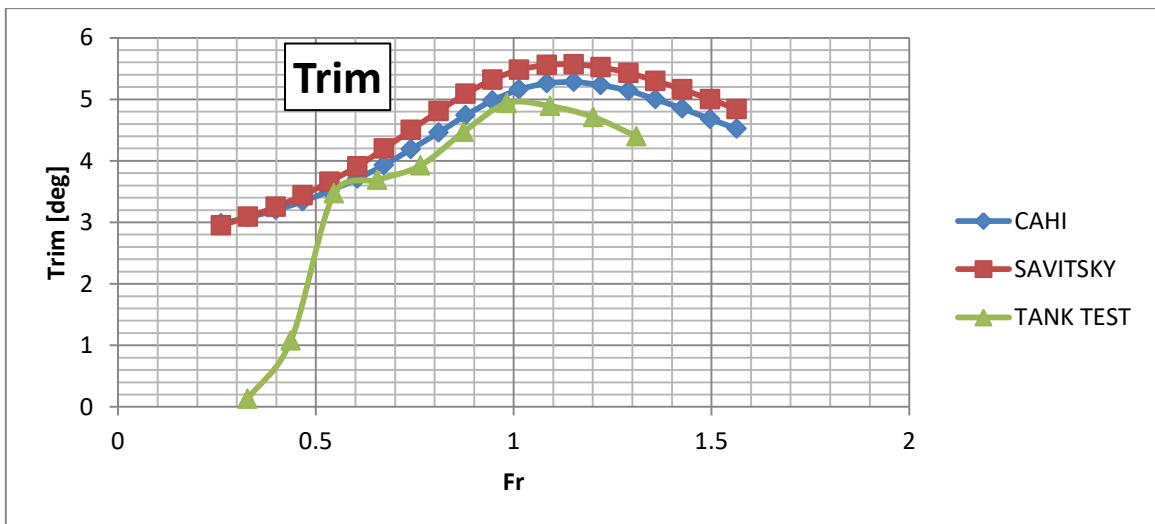
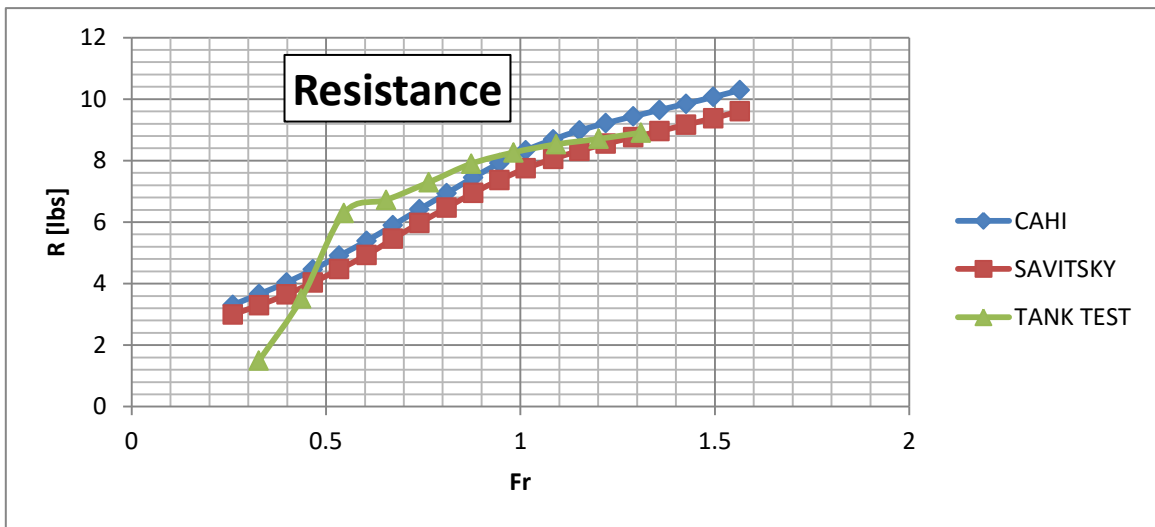
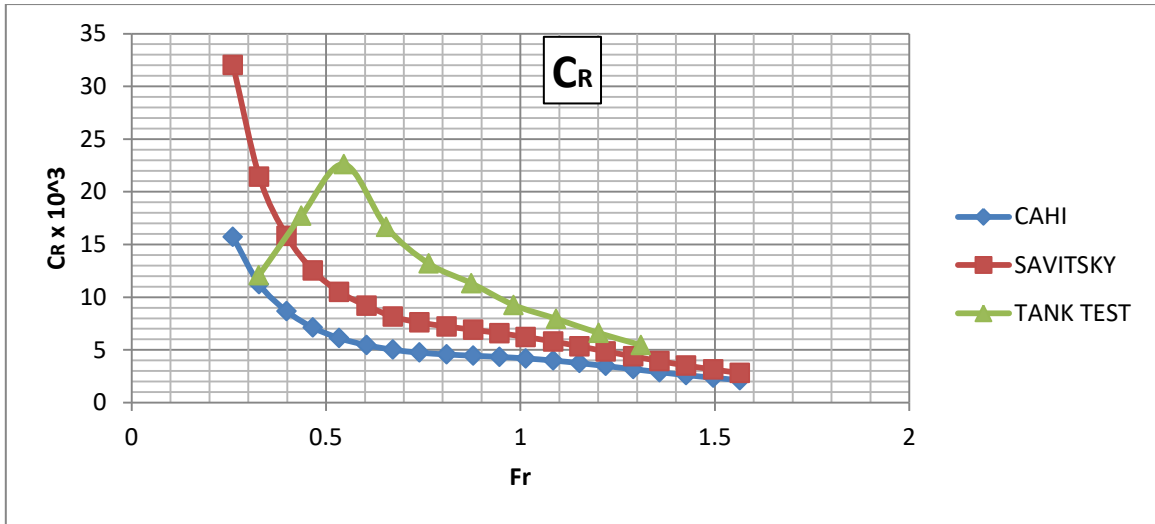
b=25.00 deg Bc=0.37 m Disp=23.41 kp LCG=0.57 m

| ~CAHI~ | | | | | | | ~SAVITSKY~ | | | | | |
|--------|-------|-------|------|-----------------|-----------------|-------|------------|-------|------|-----------------|-----------------|-------|
| Vs | Lamda | Trim | D/W | Cr | Ct | R | Lamda | Trim | D/W | Cr | Ct | R |
| [m/s] | - | [deg] | [%] | 10 ³ | 10 ³ | [lbs] | - | [deg] | [%] | 10 ³ | 10 ³ | [lbs] |
| 1.00 | 8.99 | 3.61 | 0.07 | 22.119 | 25.840 | 3.81 | 4.52 | 3.74 | 0.07 | 45.421 | 49.691 | 3.69 |
| 1.26 | 8.16 | 3.75 | 0.08 | 15.866 | 19.491 | 4.16 | 4.42 | 3.94 | 0.08 | 30.693 | 34.781 | 4.02 |
| 1.53 | 7.50 | 3.92 | 0.09 | 12.368 | 15.922 | 4.55 | 4.39 | 4.17 | 0.09 | 22.517 | 26.460 | 4.43 |
| 1.79 | 6.94 | 4.12 | 0.10 | 10.255 | 13.756 | 4.99 | 4.22 | 4.46 | 0.09 | 18.234 | 22.085 | 4.87 |
| 2.05 | 6.43 | 4.36 | 0.11 | 8.933 | 12.395 | 5.47 | 4.03 | 4.79 | 0.10 | 15.648 | 19.433 | 5.37 |
| 2.32 | 5.95 | 4.65 | 0.12 | 8.107 | 11.541 | 5.98 | 3.81 | 5.16 | 0.11 | 14.057 | 17.795 | 5.91 |
| 2.58 | 5.51 | 4.99 | 0.13 | 7.609 | 11.026 | 6.54 | 3.58 | 5.57 | 0.13 | 13.064 | 16.771 | 6.47 |
| 2.84 | 5.08 | 5.36 | 0.14 | 7.323 | 10.730 | 7.10 | 3.35 | 5.97 | 0.14 | 12.400 | 16.086 | 7.02 |
| 3.11 | 4.69 | 5.73 | 0.15 | 7.143 | 10.546 | 7.66 | 3.24 | 6.34 | 0.15 | 11.421 | 15.069 | 7.58 |
| 3.37 | 4.34 | 6.05 | 0.16 | 6.963 | 10.365 | 8.16 | 3.06 | 6.62 | 0.16 | 10.774 | 14.407 | 8.02 |
| 3.63 | 4.04 | 6.27 | 0.17 | 6.700 | 10.101 | 8.57 | 2.91 | 6.78 | 0.16 | 10.031 | 13.648 | 8.37 |
| 3.89 | 3.79 | 6.36 | 0.17 | 6.324 | 9.722 | 8.88 | 2.78 | 6.83 | 0.17 | 9.195 | 12.794 | 8.63 |
| 4.16 | 3.59 | 6.35 | 0.18 | 5.856 | 9.248 | 9.10 | 2.68 | 6.79 | 0.17 | 8.312 | 11.891 | 8.81 |
| 4.42 | 3.43 | 6.24 | 0.18 | 5.339 | 8.722 | 9.25 | 2.60 | 6.67 | 0.17 | 7.433 | 10.990 | 8.95 |
| 4.68 | 3.29 | 6.07 | 0.18 | 4.815 | 8.187 | 9.37 | 2.54 | 6.50 | 0.18 | 6.598 | 10.132 | 9.05 |
| 4.95 | 3.18 | 5.87 | 0.18 | 4.313 | 7.672 | 9.48 | 2.50 | 6.29 | 0.18 | 5.831 | 9.340 | 9.15 |
| 5.21 | 3.08 | 5.65 | 0.19 | 3.848 | 7.193 | 9.58 | 2.46 | 6.07 | 0.18 | 5.141 | 8.626 | 9.25 |
| 5.47 | 3.00 | 5.42 | 0.19 | 3.428 | 6.759 | 9.69 | 2.34 | 5.85 | 0.18 | 4.714 | 8.201 | 9.23 |
| 5.74 | 2.93 | 5.19 | 0.19 | 3.054 | 6.369 | 9.82 | 2.32 | 5.62 | 0.18 | 4.141 | 7.600 | 9.36 |
| 6.00 | 2.87 | 4.97 | 0.19 | 2.724 | 6.024 | 9.98 | 2.31 | 5.40 | 0.18 | 3.643 | 7.075 | 9.51 |



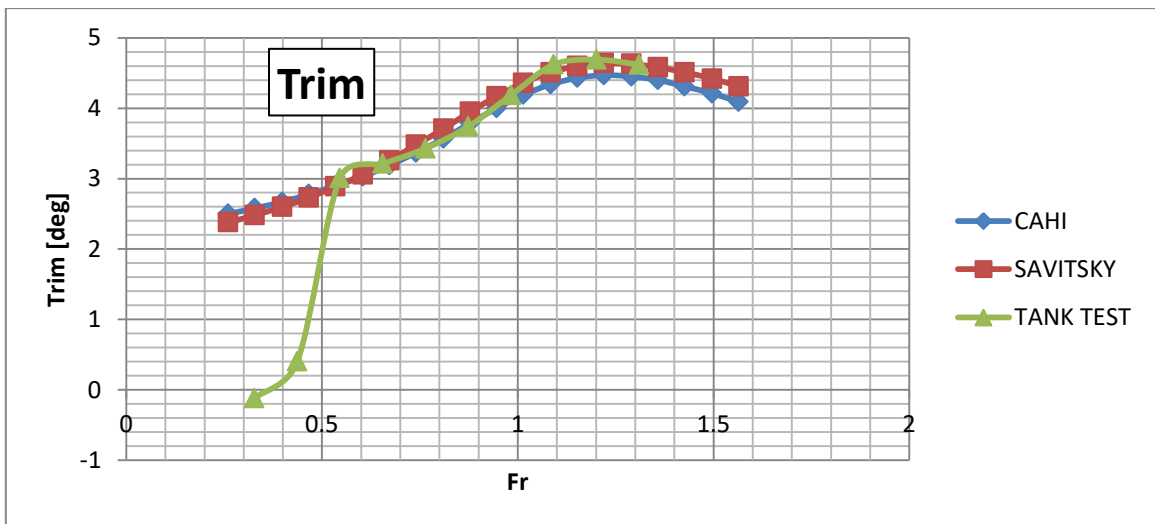
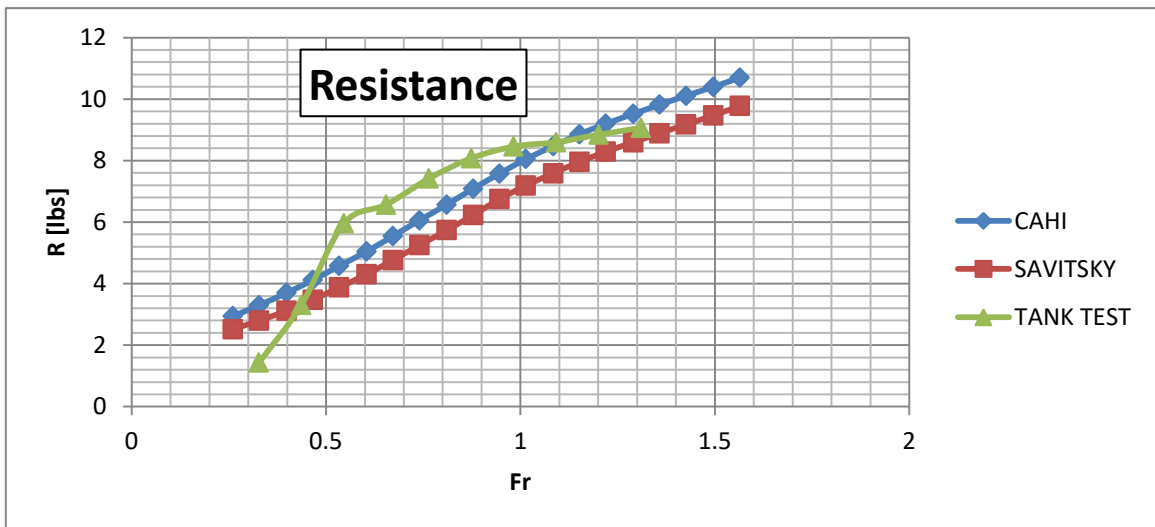
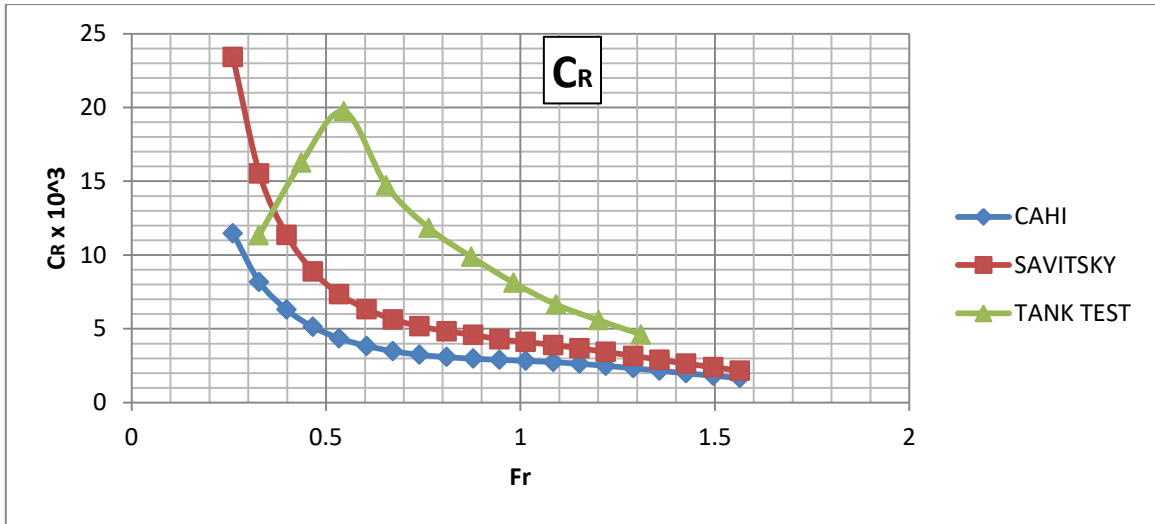
b=25.00 deg Bc=0.37 m Disp=23.41 kp LCG=0.63 m

| ~CAHI~ | | | | | | | ~SAVITSKY~ | | | | | |
|-------------|------------|---------------|------------|-----------------------|-----------------------|------------|------------|---------------|------------|-----------------------|-----------------------|------------|
| Vs [m/s] | Lamda - | Trim [deg] | D/W [%] | Cr 10 ³ | Ct 10 ³ | R [lbs] | Lamda - | Trim [deg] | D/W [%] | Cr 10 ³ | Ct 10 ³ | R [lbs] |
| 1.00 | 10.40 | 2.98 | 0.06 | 15.705 | 19.322 | 3.31 | 5.03 | 2.95 | 0.06 | 32.032 | 36.206 | 3.00 |
| 1.26 | 9.45 | 3.08 | 0.07 | 11.217 | 14.741 | 3.66 | 4.94 | 3.09 | 0.06 | 21.413 | 25.409 | 3.30 |
| 1.53 | 8.70 | 3.20 | 0.08 | 8.675 | 12.130 | 4.04 | 4.83 | 3.25 | 0.07 | 15.809 | 19.675 | 3.65 |
| 1.79 | 8.07 | 3.34 | 0.09 | 7.113 | 10.514 | 4.46 | 4.70 | 3.44 | 0.08 | 12.534 | 16.302 | 4.04 |
| 2.05 | 7.51 | 3.51 | 0.10 | 6.105 | 9.466 | 4.91 | 4.55 | 3.66 | 0.09 | 10.495 | 14.189 | 4.47 |
| 2.32 | 7.00 | 3.71 | 0.10 | 5.444 | 8.774 | 5.39 | 4.38 | 3.91 | 0.10 | 9.178 | 12.814 | 4.93 |
| 2.58 | 6.53 | 3.93 | 0.11 | 5.012 | 8.320 | 5.90 | 4.28 | 4.20 | 0.11 | 8.143 | 11.722 | 5.46 |
| 2.84 | 6.07 | 4.19 | 0.12 | 4.737 | 8.031 | 6.42 | 4.06 | 4.50 | 0.12 | 7.603 | 11.153 | 5.97 |
| 3.11 | 5.65 | 4.46 | 0.13 | 4.566 | 7.852 | 6.94 | 3.83 | 4.81 | 0.13 | 7.221 | 10.750 | 6.47 |
| 3.37 | 5.25 | 4.74 | 0.14 | 4.448 | 7.730 | 7.45 | 3.62 | 5.09 | 0.13 | 6.905 | 10.420 | 6.95 |
| 3.63 | 4.89 | 4.98 | 0.15 | 4.336 | 7.617 | 7.92 | 3.42 | 5.32 | 0.14 | 6.584 | 10.087 | 7.37 |
| 3.89 | 4.57 | 5.16 | 0.16 | 4.189 | 7.469 | 8.34 | 3.25 | 5.48 | 0.15 | 6.217 | 9.708 | 7.75 |
| 4.16 | 4.30 | 5.26 | 0.17 | 3.990 | 7.267 | 8.69 | 3.11 | 5.56 | 0.16 | 5.796 | 9.274 | 8.06 |
| 4.42 | 4.08 | 5.28 | 0.17 | 3.742 | 7.015 | 8.98 | 2.99 | 5.57 | 0.16 | 5.334 | 8.796 | 8.32 |
| 4.68 | 3.89 | 5.23 | 0.18 | 3.462 | 6.728 | 9.22 | 2.91 | 5.52 | 0.17 | 4.856 | 8.300 | 8.55 |
| 4.95 | 3.74 | 5.14 | 0.18 | 3.170 | 6.428 | 9.44 | 2.84 | 5.43 | 0.17 | 4.383 | 7.808 | 8.76 |
| 5.21 | 3.61 | 5.00 | 0.19 | 2.882 | 6.129 | 9.65 | 2.78 | 5.30 | 0.17 | 3.934 | 7.338 | 8.96 |
| 5.47 | 3.50 | 4.85 | 0.19 | 2.608 | 5.844 | 9.85 | 2.74 | 5.16 | 0.18 | 3.518 | 6.900 | 9.17 |
| 5.74 | 3.41 | 4.68 | 0.20 | 2.354 | 5.578 | 10.07 | 2.71 | 5.00 | 0.18 | 3.139 | 6.500 | 9.38 |
| 6.00 | 3.33 | 4.52 | 0.20 | 2.122 | 5.334 | 10.29 | 2.68 | 4.84 | 0.19 | 2.800 | 6.138 | 9.61 |



b=25.00 deg Bc=0.37 m Disp=23.41 kp LCG=0.69 m

| ~CAHI~ | | | | | | | ~SAVITSKY~ | | | | | |
|-------------|------------|---------------|------------|-----------------------|-----------------------|------------|------------|---------------|------------|-----------------------|-----------------------|------------|
| Vs [m/s] | Lamda - | Trim [deg] | D/W [%] | Cr 10 ³ | Ct 10 ³ | R [lbs] | Lamda - | Trim [deg] | D/W [%] | Cr 10 ³ | Ct 10 ³ | R [lbs] |
| 1.00 | 11.90 | 2.50 | 0.06 | 11.469 | 14.995 | 2.94 | 5.54 | 2.38 | 0.05 | 23.414 | 27.507 | 2.52 |
| 1.26 | 10.81 | 2.58 | 0.06 | 8.177 | 11.613 | 3.30 | 5.46 | 2.48 | 0.05 | 15.529 | 19.446 | 2.80 |
| 1.53 | 9.97 | 2.67 | 0.07 | 6.294 | 9.662 | 3.70 | 5.36 | 2.60 | 0.06 | 11.352 | 15.140 | 3.12 |
| 1.79 | 9.26 | 2.78 | 0.08 | 5.122 | 8.438 | 4.12 | 5.24 | 2.73 | 0.07 | 8.893 | 12.582 | 3.48 |
| 2.05 | 8.65 | 2.90 | 0.09 | 4.353 | 7.628 | 4.58 | 5.10 | 2.89 | 0.08 | 7.345 | 10.957 | 3.88 |
| 2.32 | 8.10 | 3.03 | 0.10 | 3.834 | 7.076 | 5.05 | 4.94 | 3.06 | 0.08 | 6.327 | 9.878 | 4.31 |
| 2.58 | 7.59 | 3.19 | 0.11 | 3.479 | 6.697 | 5.55 | 4.77 | 3.26 | 0.09 | 5.639 | 9.144 | 4.77 |
| 2.84 | 7.10 | 3.37 | 0.12 | 3.239 | 6.440 | 6.06 | 4.58 | 3.48 | 0.10 | 5.167 | 8.634 | 5.25 |
| 3.11 | 6.65 | 3.57 | 0.13 | 3.080 | 6.268 | 6.57 | 4.38 | 3.71 | 0.11 | 4.834 | 8.273 | 5.74 |
| 3.37 | 6.21 | 3.79 | 0.14 | 2.974 | 6.155 | 7.09 | 4.19 | 3.95 | 0.12 | 4.586 | 8.003 | 6.23 |
| 3.63 | 5.81 | 4.00 | 0.15 | 2.898 | 6.075 | 7.58 | 4.08 | 4.17 | 0.13 | 4.286 | 7.673 | 6.75 |
| 3.89 | 5.44 | 4.19 | 0.16 | 2.826 | 6.002 | 8.05 | 3.88 | 4.36 | 0.14 | 4.103 | 7.478 | 7.19 |
| 4.16 | 5.11 | 4.34 | 0.16 | 2.739 | 5.914 | 8.47 | 3.70 | 4.51 | 0.15 | 3.903 | 7.266 | 7.59 |
| 4.42 | 4.82 | 4.43 | 0.17 | 2.627 | 5.799 | 8.86 | 3.55 | 4.60 | 0.15 | 3.676 | 7.028 | 7.96 |
| 4.68 | 4.58 | 4.47 | 0.18 | 2.487 | 5.657 | 9.20 | 3.43 | 4.64 | 0.16 | 3.428 | 6.766 | 8.29 |
| 4.95 | 4.38 | 4.45 | 0.18 | 2.328 | 5.492 | 9.52 | 3.32 | 4.63 | 0.17 | 3.165 | 6.489 | 8.60 |
| 5.21 | 4.21 | 4.40 | 0.19 | 2.157 | 5.315 | 9.82 | 3.24 | 4.58 | 0.17 | 2.900 | 6.208 | 8.89 |
| 5.47 | 4.06 | 4.31 | 0.20 | 1.985 | 5.135 | 10.11 | 3.17 | 4.51 | 0.18 | 2.641 | 5.932 | 9.18 |
| 5.74 | 3.94 | 4.21 | 0.20 | 1.818 | 4.959 | 10.40 | 3.12 | 4.42 | 0.18 | 2.396 | 5.669 | 9.47 |
| 6.00 | 3.83 | 4.09 | 0.21 | 1.660 | 4.790 | 10.70 | 3.07 | 4.31 | 0.19 | 2.167 | 5.423 | 9.78 |



Simulation Info:

 28/06/2019 07:49:46 pm

Input Data:

 Ship Speed: from Vs1=1.00 m/s to Vs2=6.00 m/s (for 20 different Ship Speed values)

Ship Displacement: Disp=10.46 kp

Breadth at Chine: Bc=0.27 m

Deadrise Angle: b=25.00 deg

LCG: from LCG1=0.57 m to LCG2=0.69 m (for 3 different LCG values)

Fresh water properties at 17.80C:

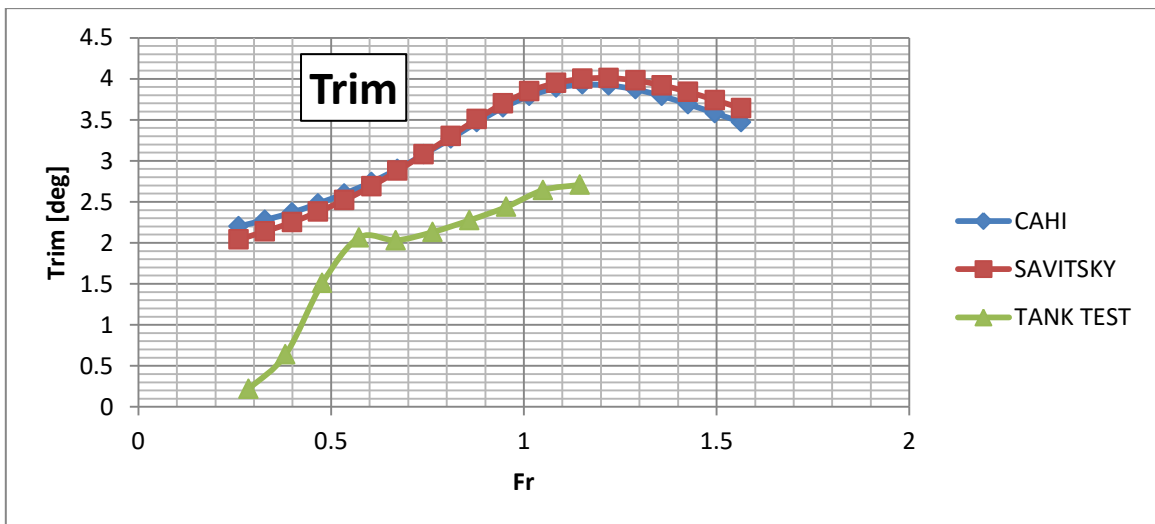
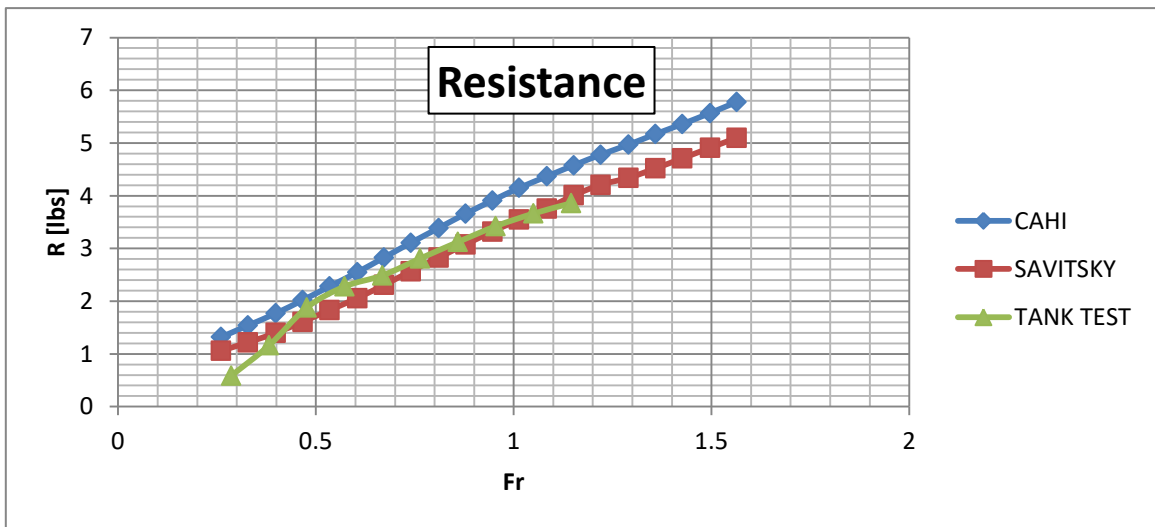
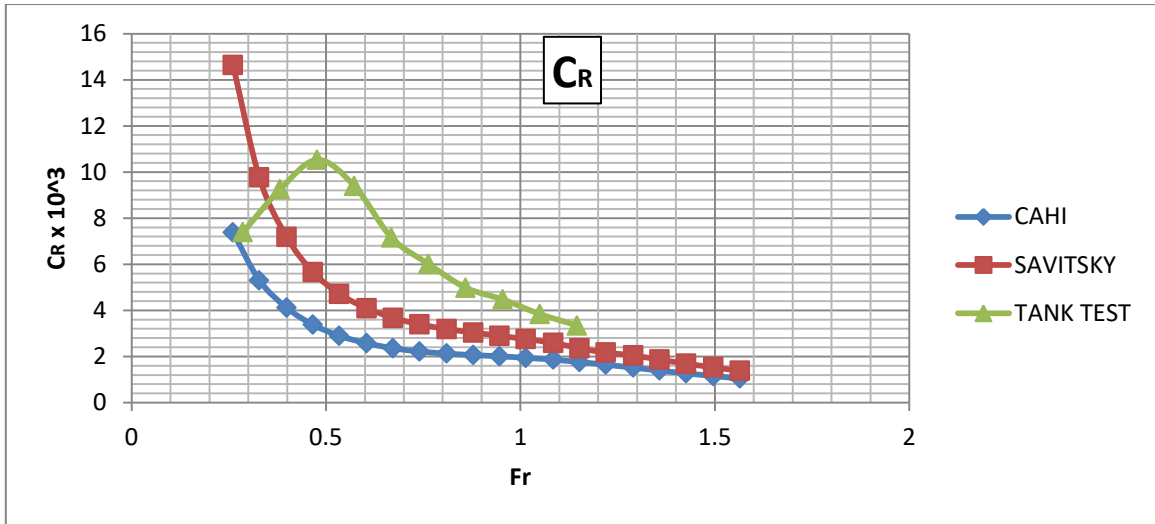
Density=998.54 kg/m³

Viscosity=1.05987*10⁻⁶ m²/s

Results:

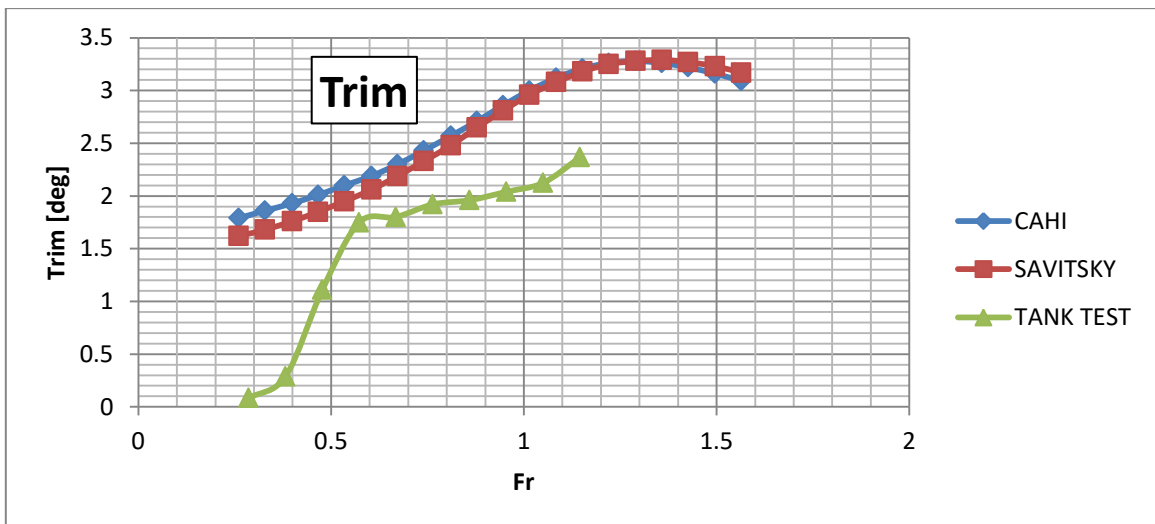
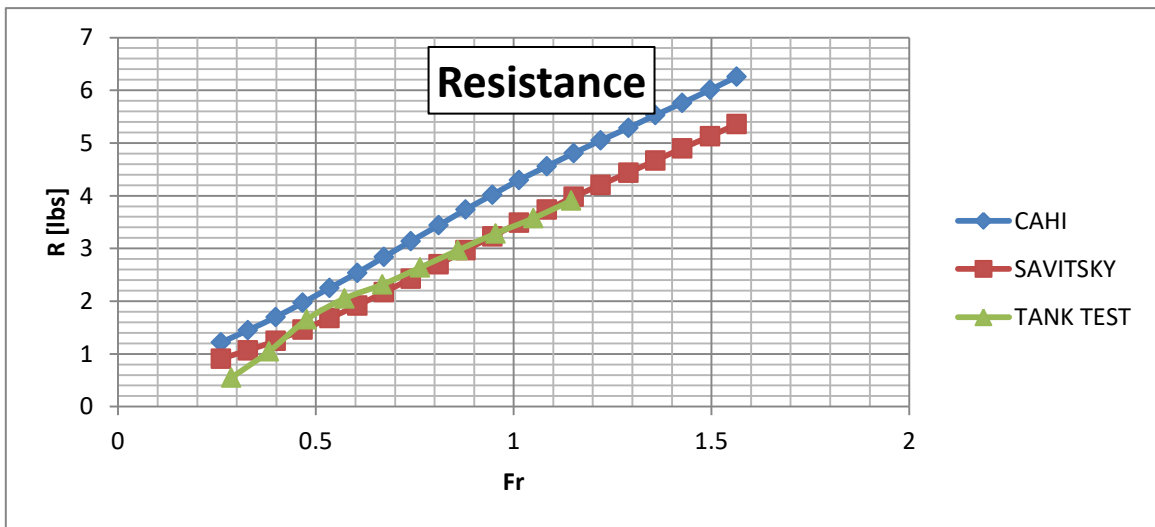
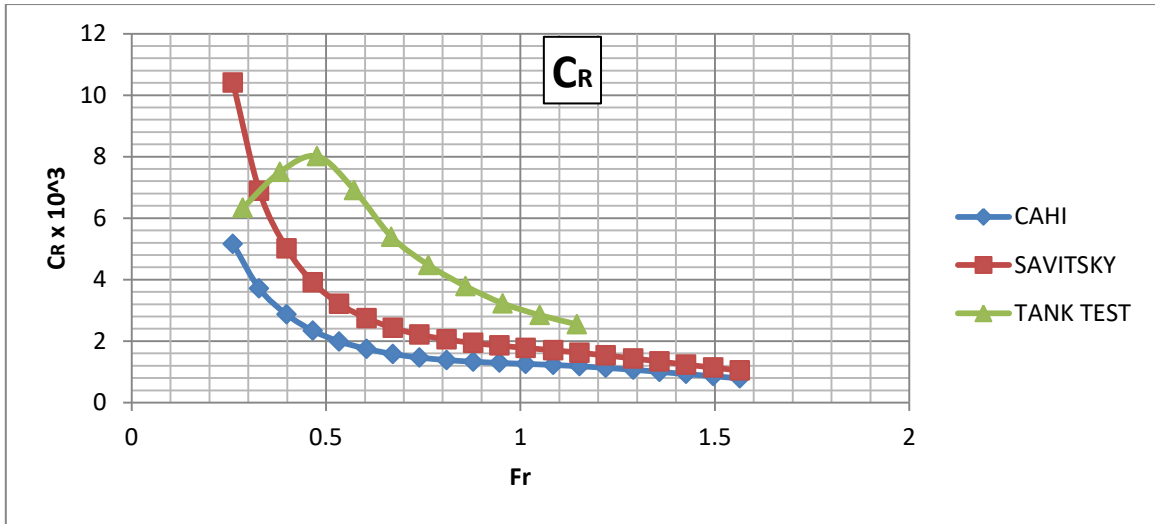
 b=25.00 deg Bc=0.27 m Disp=10.46 kp LCG=0.57 m

| ~CAHI~ | | | | | | | ~SAVITSKY~ | | | | | |
|--------|-------|-------|------|-----------------|-----------------|-------|------------|-------|------|-----------------|-----------------|-------|
| Vs | Lamda | Trim | D/W | Cr | Ct | R | Lamda | Trim | D/W | Cr | Ct | R |
| [m/s] | - | [deg] | [%] | 10 ³ | 10 ³ | [lbs] | - | [deg] | [%] | 10 ³ | 10 ³ | [lbs] |
| 1.00 | 13.11 | 2.20 | 0.06 | 7.383 | 11.043 | 1.32 | 6.14 | 2.04 | 0.05 | 14.644 | 18.901 | 1.06 |
| 1.26 | 11.88 | 2.28 | 0.07 | 5.302 | 8.870 | 1.54 | 6.04 | 2.14 | 0.05 | 9.762 | 13.834 | 1.22 |
| 1.53 | 10.93 | 2.37 | 0.08 | 4.113 | 7.610 | 1.77 | 5.92 | 2.25 | 0.06 | 7.178 | 11.114 | 1.40 |
| 1.79 | 10.12 | 2.48 | 0.09 | 3.375 | 6.819 | 2.02 | 5.77 | 2.38 | 0.07 | 5.661 | 9.494 | 1.61 |
| 2.05 | 9.42 | 2.60 | 0.10 | 2.894 | 6.297 | 2.28 | 5.61 | 2.52 | 0.08 | 4.710 | 8.464 | 1.83 |
| 2.32 | 8.79 | 2.74 | 0.11 | 2.573 | 5.945 | 2.55 | 5.42 | 2.69 | 0.09 | 4.090 | 7.782 | 2.06 |
| 2.58 | 8.19 | 2.90 | 0.12 | 2.358 | 5.707 | 2.83 | 5.21 | 2.88 | 0.10 | 3.675 | 7.319 | 2.31 |
| 2.84 | 7.64 | 3.08 | 0.13 | 2.217 | 5.549 | 3.11 | 4.99 | 3.08 | 0.11 | 3.393 | 7.000 | 2.57 |
| 3.11 | 7.11 | 3.27 | 0.15 | 2.125 | 5.447 | 3.39 | 4.76 | 3.30 | 0.12 | 3.192 | 6.772 | 2.83 |
| 3.37 | 6.62 | 3.47 | 0.16 | 2.061 | 5.378 | 3.66 | 4.53 | 3.51 | 0.13 | 3.037 | 6.596 | 3.08 |
| 3.63 | 6.17 | 3.65 | 0.17 | 2.006 | 5.320 | 3.91 | 4.31 | 3.70 | 0.14 | 2.897 | 6.438 | 3.32 |
| 3.89 | 5.77 | 3.79 | 0.18 | 1.942 | 5.255 | 4.15 | 4.11 | 3.85 | 0.15 | 2.751 | 6.278 | 3.55 |
| 4.16 | 5.43 | 3.89 | 0.19 | 1.860 | 5.171 | 4.37 | 3.94 | 3.95 | 0.16 | 2.590 | 6.103 | 3.76 |
| 4.42 | 5.14 | 3.93 | 0.20 | 1.758 | 5.065 | 4.58 | 3.89 | 4.00 | 0.17 | 2.352 | 5.833 | 4.01 |
| 4.68 | 4.90 | 3.92 | 0.21 | 1.641 | 4.942 | 4.78 | 3.76 | 4.01 | 0.18 | 2.170 | 5.635 | 4.21 |
| 4.95 | 4.69 | 3.87 | 0.22 | 1.515 | 4.809 | 4.97 | 3.56 | 3.98 | 0.19 | 2.043 | 5.508 | 4.34 |
| 5.21 | 4.52 | 3.79 | 0.22 | 1.388 | 4.674 | 5.17 | 3.47 | 3.92 | 0.20 | 1.861 | 5.309 | 4.52 |
| 5.47 | 4.38 | 3.69 | 0.23 | 1.266 | 4.541 | 5.36 | 3.39 | 3.84 | 0.20 | 1.688 | 5.119 | 4.71 |
| 5.74 | 4.25 | 3.58 | 0.24 | 1.150 | 4.415 | 5.57 | 3.33 | 3.74 | 0.21 | 1.527 | 4.940 | 4.91 |
| 6.00 | 4.15 | 3.47 | 0.25 | 1.044 | 4.297 | 5.78 | 3.28 | 3.64 | 0.22 | 1.380 | 4.775 | 5.10 |



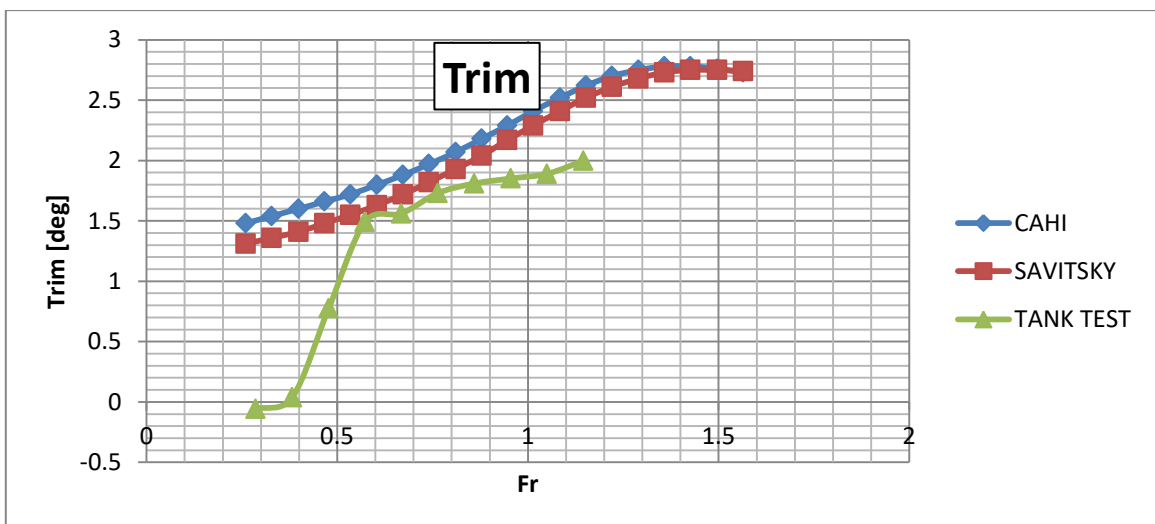
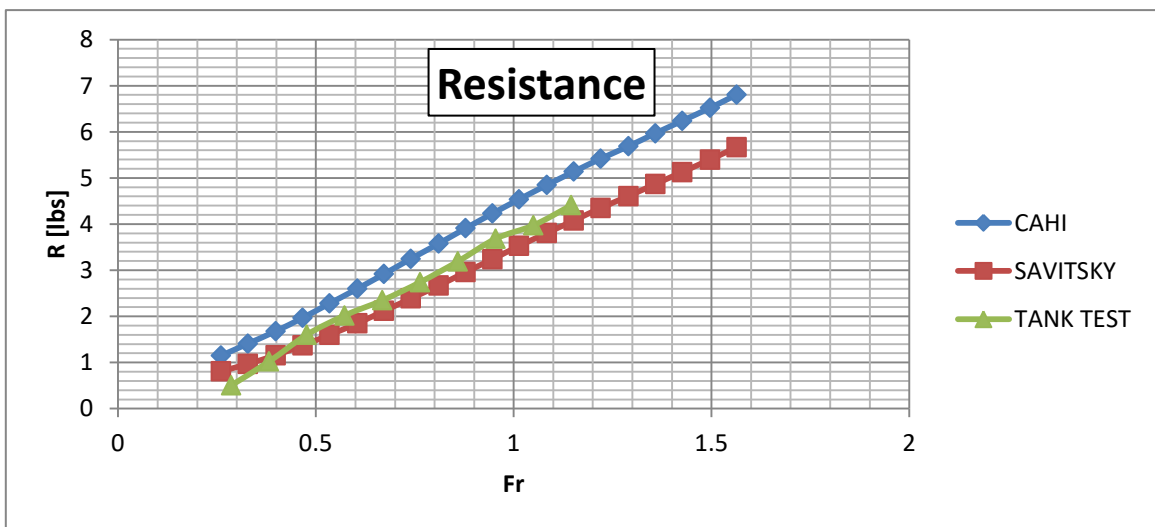
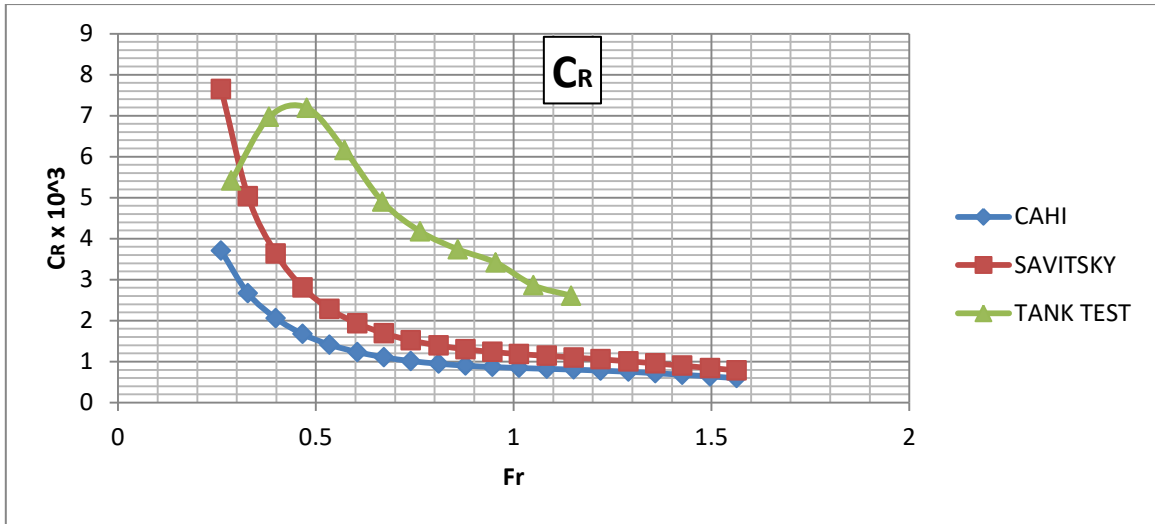
b=25.00 deg Bc=0.27 m Disp=10.46 kp LCG=0.63 m

| ~CAHI~ | | | | | | | ~SAVITSKY~ | | | | | |
|-------------|------------|---------------|------------|-----------------------|-----------------------|------------|------------|---------------|------------|-----------------------|-----------------------|------------|
| Vs [m/s] | Lamda - | Trim [deg] | D/W [%] | Cr 10 ³ | Ct 10 ³ | R [lbs] | Lamda - | Trim [deg] | D/W [%] | Cr 10 ³ | Ct 10 ³ | R [lbs] |
| 1.00 | 15.26 | 1.79 | 0.05 | 5.163 | 8.719 | 1.22 | 6.82 | 1.62 | 0.04 | 10.405 | 14.570 | 0.91 |
| 1.26 | 13.83 | 1.86 | 0.06 | 3.708 | 7.174 | 1.45 | 6.73 | 1.68 | 0.05 | 6.883 | 10.866 | 1.07 |
| 1.53 | 12.73 | 1.93 | 0.07 | 2.866 | 6.265 | 1.70 | 6.62 | 1.76 | 0.05 | 5.013 | 8.862 | 1.25 |
| 1.79 | 11.82 | 2.01 | 0.09 | 2.337 | 5.683 | 1.97 | 6.49 | 1.85 | 0.06 | 3.908 | 7.654 | 1.46 |
| 2.05 | 11.04 | 2.10 | 0.10 | 1.987 | 5.291 | 2.25 | 6.34 | 1.95 | 0.07 | 3.208 | 6.873 | 1.68 |
| 2.32 | 10.33 | 2.19 | 0.11 | 1.746 | 5.018 | 2.54 | 6.16 | 2.06 | 0.08 | 2.744 | 6.345 | 1.92 |
| 2.58 | 9.69 | 2.30 | 0.12 | 1.580 | 4.826 | 2.84 | 5.97 | 2.19 | 0.09 | 2.427 | 5.977 | 2.17 |
| 2.84 | 9.08 | 2.43 | 0.14 | 1.464 | 4.692 | 3.14 | 5.76 | 2.33 | 0.11 | 2.207 | 5.716 | 2.43 |
| 3.11 | 8.51 | 2.57 | 0.15 | 1.384 | 4.599 | 3.44 | 5.54 | 2.48 | 0.12 | 2.052 | 5.529 | 2.70 |
| 3.37 | 7.97 | 2.71 | 0.16 | 1.330 | 4.535 | 3.74 | 5.31 | 2.65 | 0.13 | 1.940 | 5.391 | 2.97 |
| 3.63 | 7.47 | 2.86 | 0.17 | 1.291 | 4.491 | 4.02 | 5.08 | 2.81 | 0.14 | 1.853 | 5.285 | 3.23 |
| 3.89 | 7.00 | 3.00 | 0.19 | 1.259 | 4.456 | 4.30 | 4.86 | 2.96 | 0.15 | 1.777 | 5.193 | 3.49 |
| 4.16 | 6.58 | 3.12 | 0.20 | 1.224 | 4.420 | 4.56 | 4.65 | 3.08 | 0.16 | 1.702 | 5.105 | 3.74 |
| 4.42 | 6.21 | 3.21 | 0.21 | 1.181 | 4.376 | 4.81 | 4.46 | 3.18 | 0.17 | 1.621 | 5.011 | 3.98 |
| 4.68 | 5.89 | 3.26 | 0.22 | 1.129 | 4.321 | 5.05 | 4.30 | 3.25 | 0.18 | 1.532 | 4.910 | 4.21 |
| 4.95 | 5.61 | 3.28 | 0.23 | 1.067 | 4.255 | 5.29 | 4.16 | 3.28 | 0.19 | 1.436 | 4.801 | 4.44 |
| 5.21 | 5.38 | 3.26 | 0.24 | 0.999 | 4.182 | 5.53 | 4.03 | 3.29 | 0.20 | 1.336 | 4.688 | 4.67 |
| 5.47 | 5.18 | 3.22 | 0.25 | 0.928 | 4.104 | 5.76 | 3.93 | 3.27 | 0.21 | 1.235 | 4.573 | 4.90 |
| 5.74 | 5.01 | 3.16 | 0.26 | 0.857 | 4.026 | 6.01 | 3.84 | 3.23 | 0.22 | 1.137 | 4.460 | 5.13 |
| 6.00 | 4.86 | 3.09 | 0.27 | 0.789 | 3.949 | 6.26 | 3.76 | 3.17 | 0.23 | 1.043 | 4.351 | 5.36 |



b=25.00 deg Bc=0.27 m Disp=10.46 kp LCG=0.69 m

| ~CAHI~ | | | | | | | ~SAVITSKY~ | | | | | |
|-------------|------------|---------------|------------|-----------------------|-----------------------|------------|------------|---------------|------------|-----------------------|-----------------------|------------|
| Vs [m/s] | Lamda - | Trim [deg] | D/W [%] | Cr 10 ³ | Ct 10 ³ | R [lbs] | Lamda - | Trim [deg] | D/W [%] | Cr 10 ³ | Ct 10 ³ | R [lbs] |
| 1.00 | 17.54 | 1.48 | 0.05 | 3.702 | 7.166 | 1.15 | 7.50 | 1.31 | 0.04 | 7.646 | 11.731 | 0.81 |
| 1.26 | 15.90 | 1.54 | 0.06 | 2.664 | 6.042 | 1.41 | 7.41 | 1.36 | 0.04 | 5.029 | 8.936 | 0.97 |
| 1.53 | 14.64 | 1.60 | 0.07 | 2.058 | 5.370 | 1.68 | 7.31 | 1.41 | 0.05 | 3.636 | 7.411 | 1.16 |
| 1.79 | 13.61 | 1.66 | 0.09 | 1.672 | 4.933 | 1.97 | 7.19 | 1.48 | 0.06 | 2.811 | 6.482 | 1.37 |
| 2.05 | 12.74 | 1.72 | 0.10 | 1.413 | 4.633 | 2.28 | 7.06 | 1.55 | 0.07 | 2.284 | 5.874 | 1.60 |
| 2.32 | 11.96 | 1.80 | 0.11 | 1.233 | 4.420 | 2.60 | 6.90 | 1.63 | 0.08 | 1.932 | 5.456 | 1.85 |
| 2.58 | 11.25 | 1.88 | 0.13 | 1.105 | 4.265 | 2.92 | 6.72 | 1.72 | 0.09 | 1.688 | 5.158 | 2.12 |
| 2.84 | 10.60 | 1.97 | 0.14 | 1.013 | 4.153 | 3.25 | 6.53 | 1.82 | 0.10 | 1.515 | 4.942 | 2.39 |
| 3.11 | 9.99 | 2.07 | 0.16 | 0.948 | 4.071 | 3.58 | 6.32 | 1.93 | 0.12 | 1.391 | 4.783 | 2.67 |
| 3.37 | 9.40 | 2.18 | 0.17 | 0.901 | 4.013 | 3.91 | 6.10 | 2.04 | 0.13 | 1.301 | 4.665 | 2.96 |
| 3.63 | 8.85 | 2.29 | 0.18 | 0.868 | 3.972 | 4.23 | 5.87 | 2.17 | 0.14 | 1.235 | 4.576 | 3.24 |
| 3.89 | 8.33 | 2.41 | 0.20 | 0.844 | 3.943 | 4.54 | 5.64 | 2.29 | 0.15 | 1.183 | 4.507 | 3.53 |
| 4.16 | 7.84 | 2.52 | 0.21 | 0.824 | 3.920 | 4.85 | 5.41 | 2.41 | 0.16 | 1.140 | 4.448 | 3.81 |
| 4.42 | 7.40 | 2.62 | 0.22 | 0.804 | 3.899 | 5.14 | 5.20 | 2.52 | 0.18 | 1.098 | 4.394 | 4.08 |
| 4.68 | 7.00 | 2.70 | 0.23 | 0.780 | 3.874 | 5.42 | 5.00 | 2.61 | 0.19 | 1.054 | 4.339 | 4.35 |
| 4.95 | 6.66 | 2.75 | 0.25 | 0.751 | 3.843 | 5.69 | 4.82 | 2.68 | 0.20 | 1.007 | 4.281 | 4.61 |
| 5.21 | 6.35 | 2.78 | 0.26 | 0.717 | 3.806 | 5.97 | 4.66 | 2.73 | 0.21 | 0.955 | 4.218 | 4.87 |
| 5.47 | 6.09 | 2.78 | 0.27 | 0.679 | 3.764 | 6.24 | 4.52 | 2.75 | 0.22 | 0.900 | 4.152 | 5.13 |
| 5.74 | 5.87 | 2.76 | 0.28 | 0.638 | 3.718 | 6.52 | 4.41 | 2.75 | 0.23 | 0.843 | 4.083 | 5.40 |
| 6.00 | 5.67 | 2.73 | 0.30 | 0.596 | 3.670 | 6.81 | 4.30 | 2.74 | 0.25 | 0.785 | 4.013 | 5.67 |



Simulation Info:

28/06/2019 07:50:07 pm

Input Data:

Ship Speed: from Vs1=1.00 m/s to Vs2=6.00 m/s (for 20 different Ship Speed values)

Ship Displacement: Disp=15.01 kp

Breadth at Chine: Bc=0.27 m

Deadrise Angle: b=25.00 deg

LCG: from LCG1=0.57 m to LCG2=0.69 m (for 3 different LCG values)

Fresh water properties at 17.80C:

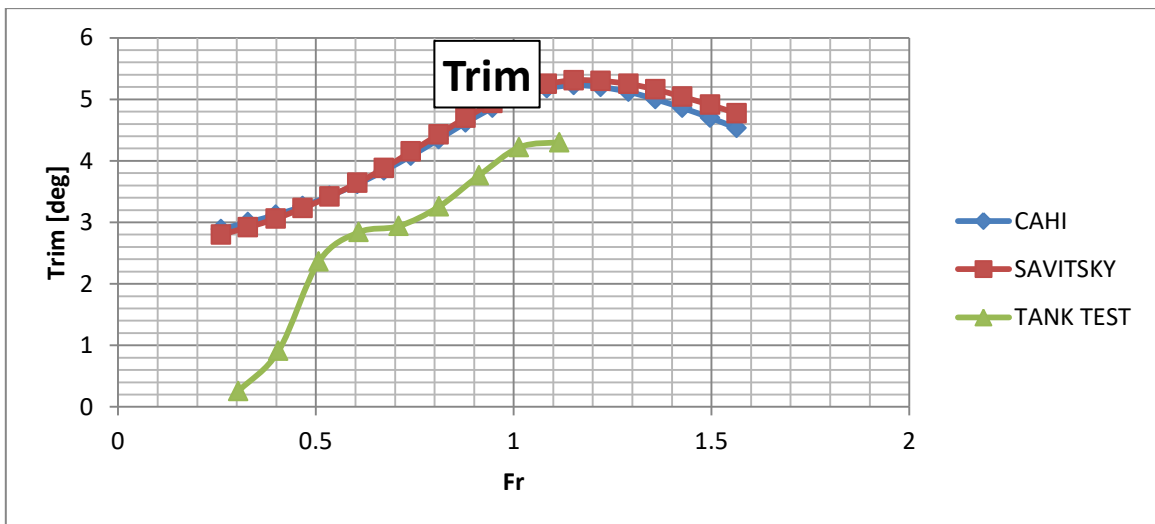
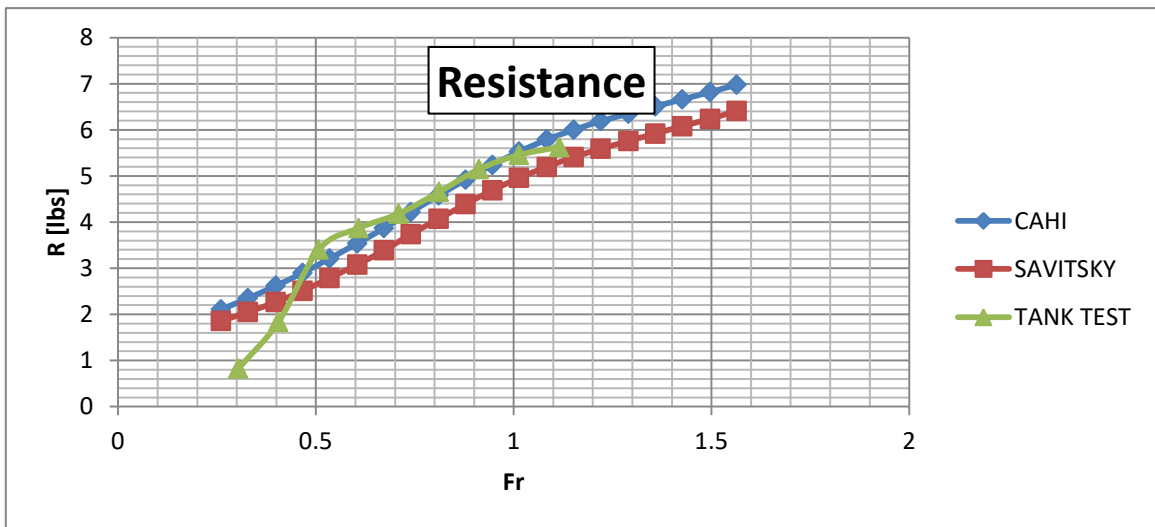
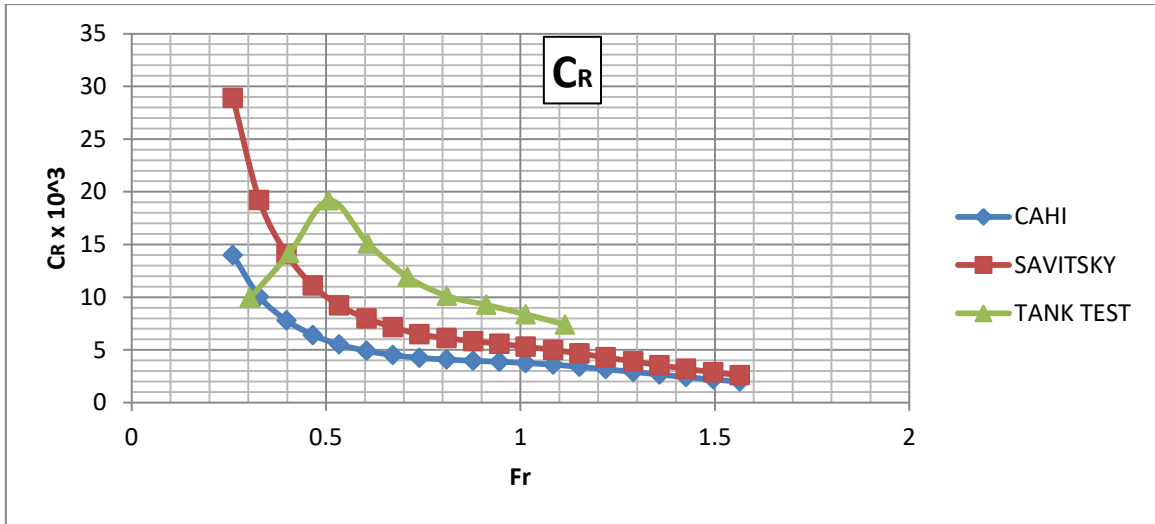
Density=998.54 kg/m³

Viscosity=1.05987*10⁻⁶ m²/s

Results:

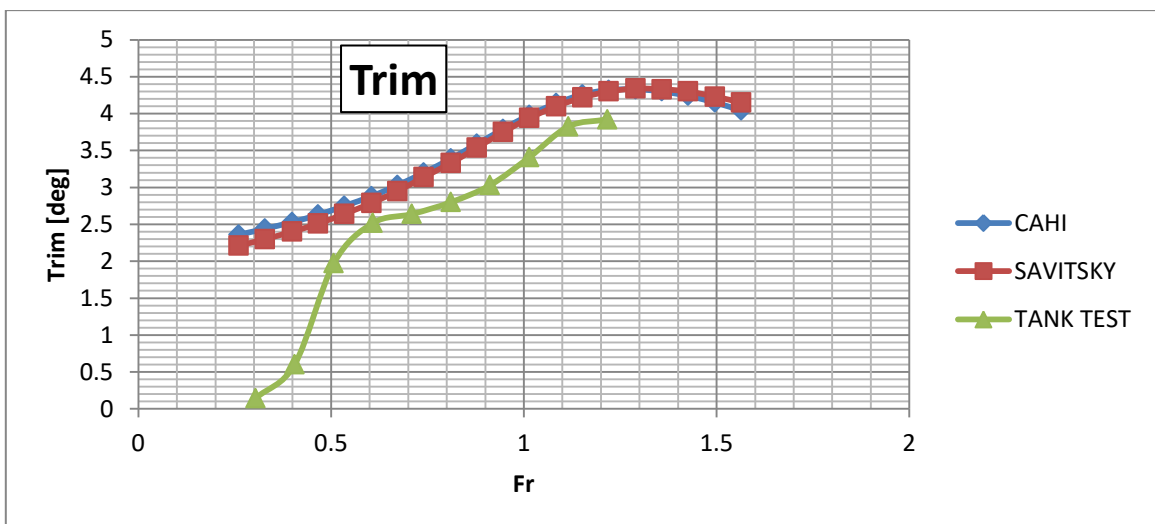
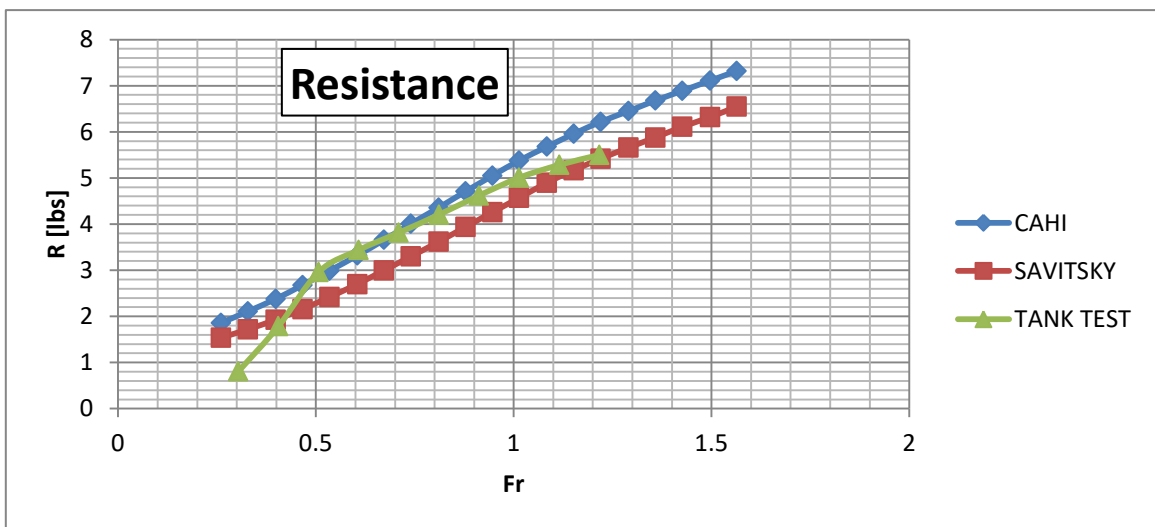
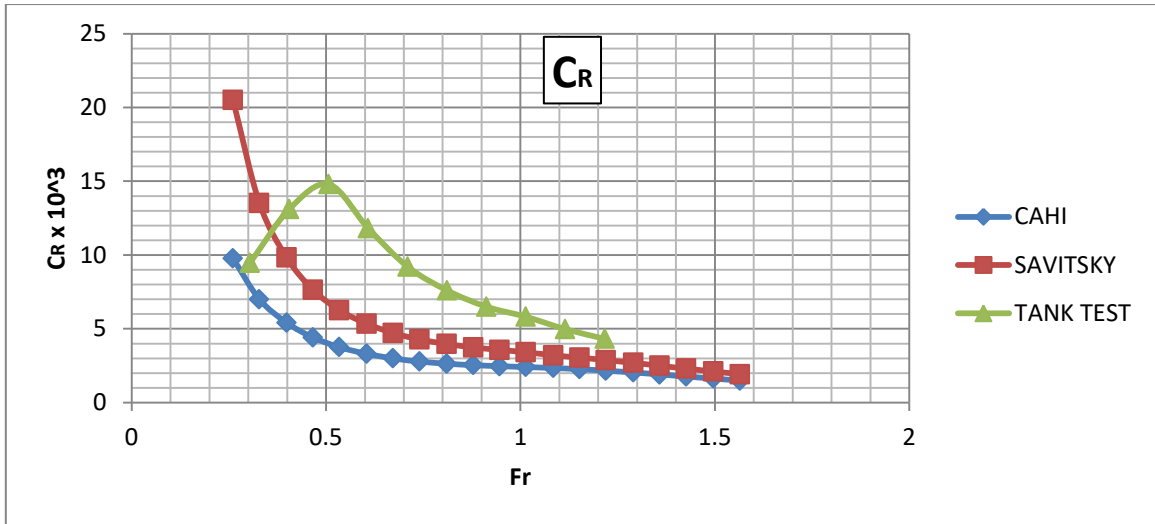
b=25.00 deg Bc=0.27 m Disp=15.01 kp LCG=0.57 m

| ~CAHI~ | | | | | | | ~SAVITSKY~ | | | | | |
|--------|-------|-------|------|-----------------|-----------------|-------|------------|-------|------|-----------------|-----------------|-------|
| Vs | Lamda | Trim | D/W | Cr | Ct | R | Lamda | Trim | D/W | Cr | Ct | R |
| [m/s] | - | [deg] | [%] | 10 ³ | 10 ³ | [lbs] | - | [deg] | [%] | 10 ³ | 10 ³ | [lbs] |
| 1.00 | 13.11 | 2.89 | 0.06 | 13.992 | 17.654 | 2.11 | 6.14 | 2.80 | 0.06 | 28.892 | 33.151 | 1.86 |
| 1.26 | 11.88 | 3.00 | 0.07 | 10.044 | 13.613 | 2.35 | 6.04 | 2.92 | 0.06 | 19.209 | 23.282 | 2.05 |
| 1.53 | 10.93 | 3.12 | 0.08 | 7.795 | 11.294 | 2.62 | 5.92 | 3.06 | 0.07 | 14.090 | 18.027 | 2.27 |
| 1.79 | 10.12 | 3.26 | 0.09 | 6.405 | 9.850 | 2.90 | 5.77 | 3.23 | 0.08 | 11.086 | 14.921 | 2.51 |
| 2.05 | 9.42 | 3.43 | 0.10 | 5.502 | 8.906 | 3.21 | 5.61 | 3.42 | 0.08 | 9.203 | 12.959 | 2.79 |
| 2.32 | 8.79 | 3.62 | 0.11 | 4.903 | 8.276 | 3.54 | 5.42 | 3.64 | 0.09 | 7.974 | 11.668 | 3.08 |
| 2.58 | 8.19 | 3.84 | 0.12 | 4.505 | 7.855 | 3.87 | 5.21 | 3.88 | 0.10 | 7.152 | 10.798 | 3.39 |
| 2.84 | 7.64 | 4.08 | 0.13 | 4.247 | 7.581 | 4.22 | 5.07 | 4.15 | 0.11 | 6.475 | 10.072 | 3.74 |
| 3.11 | 7.11 | 4.35 | 0.14 | 4.081 | 7.405 | 4.58 | 4.82 | 4.43 | 0.12 | 6.107 | 9.680 | 4.07 |
| 3.37 | 6.62 | 4.62 | 0.15 | 3.968 | 7.288 | 4.92 | 4.57 | 4.70 | 0.13 | 5.825 | 9.379 | 4.39 |
| 3.63 | 6.17 | 4.86 | 0.16 | 3.870 | 7.187 | 5.24 | 4.33 | 4.94 | 0.14 | 5.569 | 9.110 | 4.69 |
| 3.89 | 5.77 | 5.06 | 0.17 | 3.752 | 7.068 | 5.53 | 4.12 | 5.13 | 0.15 | 5.299 | 8.828 | 4.96 |
| 4.16 | 5.43 | 5.18 | 0.17 | 3.595 | 6.908 | 5.79 | 3.93 | 5.25 | 0.16 | 4.993 | 8.509 | 5.20 |
| 4.42 | 5.14 | 5.23 | 0.18 | 3.394 | 6.705 | 6.00 | 3.78 | 5.31 | 0.16 | 4.651 | 8.153 | 5.41 |
| 4.68 | 4.90 | 5.20 | 0.19 | 3.162 | 6.467 | 6.19 | 3.65 | 5.30 | 0.17 | 4.285 | 7.772 | 5.59 |
| 4.95 | 4.69 | 5.12 | 0.19 | 2.913 | 6.211 | 6.35 | 3.55 | 5.25 | 0.17 | 3.912 | 7.381 | 5.76 |
| 5.21 | 4.52 | 5.00 | 0.20 | 2.662 | 5.950 | 6.51 | 3.47 | 5.16 | 0.18 | 3.547 | 6.997 | 5.92 |
| 5.47 | 4.38 | 4.86 | 0.20 | 2.418 | 5.697 | 6.66 | 3.41 | 5.04 | 0.18 | 3.200 | 6.631 | 6.08 |
| 5.74 | 4.25 | 4.70 | 0.21 | 2.189 | 5.457 | 6.82 | 3.35 | 4.91 | 0.19 | 2.878 | 6.289 | 6.24 |
| 6.00 | 4.15 | 4.53 | 0.21 | 1.979 | 5.234 | 6.98 | 3.31 | 4.77 | 0.19 | 2.585 | 5.974 | 6.41 |



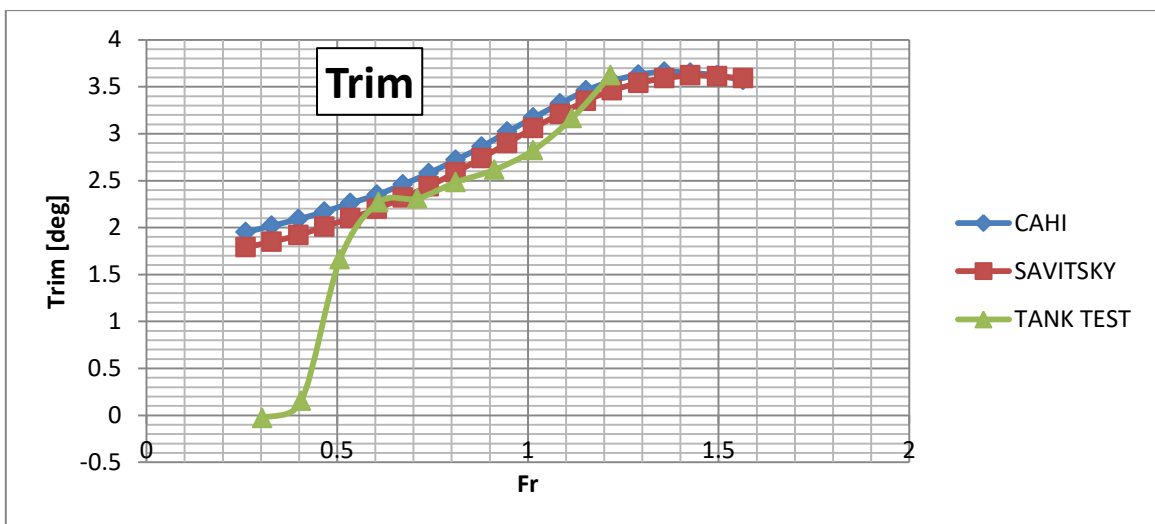
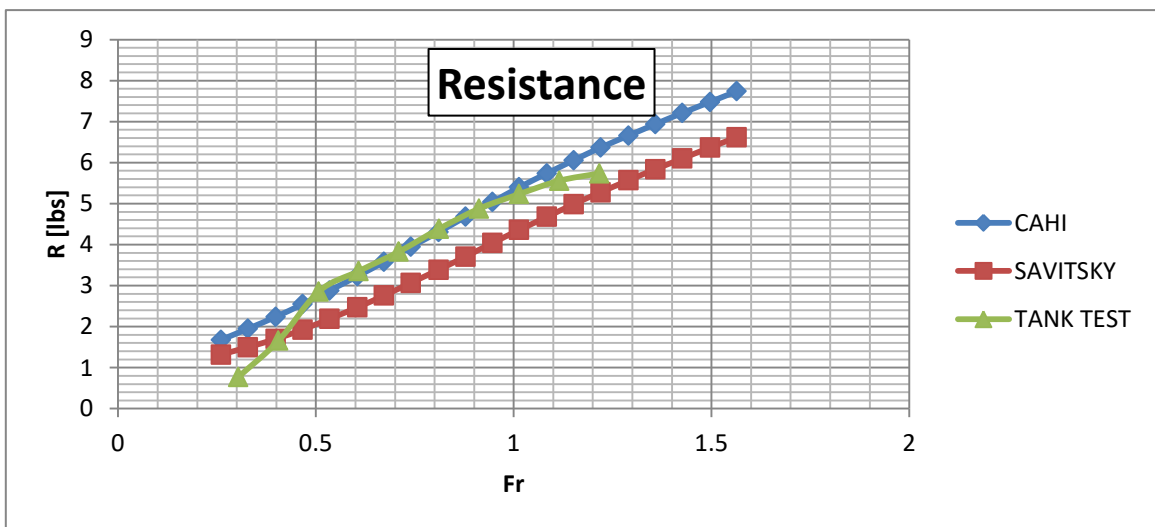
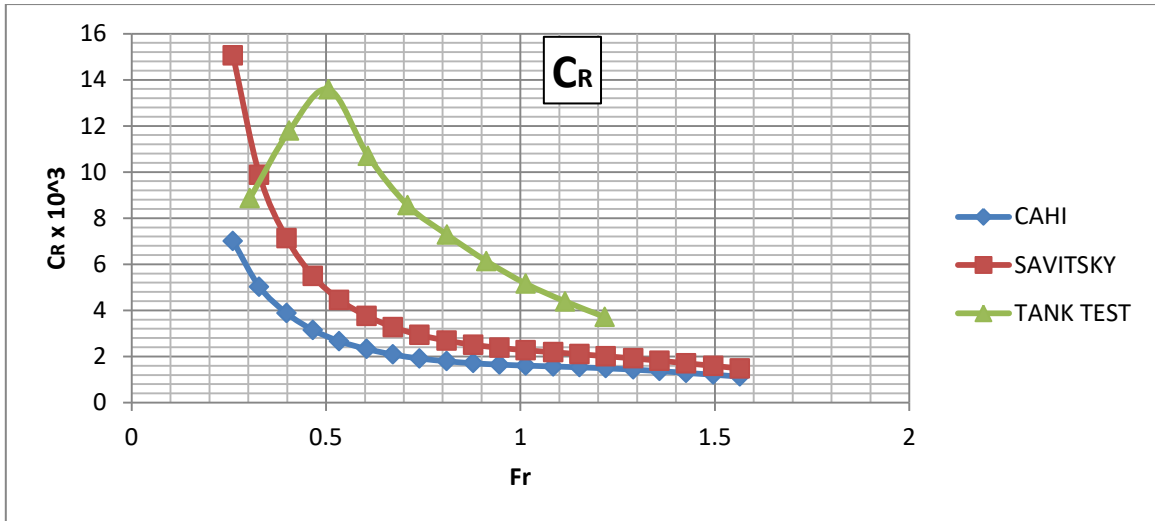
b=25.00 deg Bc=0.27 m Disp=15.01 kp LCG=0.63 m

| ~CAHI~ | | | | | | | ~SAVITSKY~ | | | | | |
|-------------|------------|---------------|------------|-----------------------|-----------------------|------------|------------|---------------|------------|-----------------------|-----------------------|------------|
| Vs [m/s] | Lamda - | Trim [deg] | D/W [%] | Cr 10 ³ | Ct 10 ³ | R [lbs] | Lamda - | Trim [deg] | D/W [%] | Cr 10 ³ | Ct 10 ³ | R [lbs] |
| 1.00 | 15.26 | 2.36 | 0.06 | 9.767 | 13.324 | 1.86 | 6.82 | 2.21 | 0.05 | 20.506 | 24.672 | 1.54 |
| 1.26 | 13.83 | 2.44 | 0.06 | 7.002 | 10.469 | 2.11 | 6.73 | 2.30 | 0.05 | 13.528 | 17.513 | 1.72 |
| 1.53 | 12.73 | 2.53 | 0.07 | 5.410 | 8.809 | 2.38 | 6.62 | 2.40 | 0.06 | 9.827 | 13.677 | 1.93 |
| 1.79 | 11.82 | 2.63 | 0.08 | 4.413 | 7.760 | 2.68 | 6.49 | 2.51 | 0.07 | 7.642 | 11.389 | 2.16 |
| 2.05 | 11.04 | 2.75 | 0.09 | 3.754 | 7.060 | 2.99 | 6.34 | 2.64 | 0.07 | 6.258 | 9.924 | 2.42 |
| 2.32 | 10.33 | 2.88 | 0.10 | 3.305 | 6.578 | 3.32 | 6.16 | 2.79 | 0.08 | 5.341 | 8.943 | 2.70 |
| 2.58 | 9.69 | 3.03 | 0.11 | 2.995 | 6.242 | 3.66 | 5.97 | 2.95 | 0.09 | 4.714 | 8.265 | 3.00 |
| 2.84 | 9.08 | 3.20 | 0.12 | 2.781 | 6.010 | 4.01 | 5.76 | 3.14 | 0.10 | 4.278 | 7.788 | 3.30 |
| 3.11 | 8.51 | 3.39 | 0.13 | 2.635 | 5.851 | 4.36 | 5.54 | 3.33 | 0.11 | 3.969 | 7.447 | 3.62 |
| 3.37 | 7.97 | 3.59 | 0.14 | 2.537 | 5.744 | 4.71 | 5.31 | 3.54 | 0.12 | 3.744 | 7.197 | 3.94 |
| 3.63 | 7.47 | 3.79 | 0.15 | 2.468 | 5.670 | 5.05 | 5.08 | 3.75 | 0.13 | 3.569 | 7.003 | 4.26 |
| 3.89 | 7.00 | 3.98 | 0.16 | 2.410 | 5.609 | 5.38 | 4.86 | 3.94 | 0.14 | 3.416 | 6.834 | 4.57 |
| 4.16 | 6.58 | 4.14 | 0.17 | 2.345 | 5.543 | 5.68 | 4.74 | 4.10 | 0.15 | 3.202 | 6.594 | 4.90 |
| 4.42 | 6.21 | 4.26 | 0.18 | 2.264 | 5.461 | 5.96 | 4.55 | 4.22 | 0.16 | 3.048 | 6.429 | 5.17 |
| 4.68 | 5.89 | 4.32 | 0.19 | 2.162 | 5.356 | 6.22 | 4.37 | 4.30 | 0.16 | 2.877 | 6.246 | 5.42 |
| 4.95 | 5.61 | 4.33 | 0.20 | 2.041 | 5.232 | 6.45 | 4.23 | 4.34 | 0.17 | 2.692 | 6.048 | 5.66 |
| 5.21 | 5.38 | 4.30 | 0.20 | 1.907 | 5.092 | 6.68 | 4.11 | 4.33 | 0.18 | 2.497 | 5.840 | 5.88 |
| 5.47 | 5.18 | 4.24 | 0.21 | 1.767 | 4.946 | 6.89 | 4.01 | 4.30 | 0.18 | 2.301 | 5.629 | 6.11 |
| 5.74 | 5.01 | 4.15 | 0.21 | 1.628 | 4.799 | 7.11 | 3.92 | 4.23 | 0.19 | 2.109 | 5.421 | 6.32 |
| 6.00 | 4.86 | 4.04 | 0.22 | 1.493 | 4.655 | 7.32 | 3.85 | 4.15 | 0.20 | 1.926 | 5.221 | 6.55 |



b=25.00 deg Bc=0.27 m Disp=15.01 kp LCG=0.69 m

| ~CAHI~ | | | | | | | ~SAVITSKY~ | | | | | |
|-------------|------------|---------------|------------|-----------------------|-----------------------|------------|------------|---------------|------------|-----------------------|-----------------------|------------|
| Vs [m/s] | Lamda - | Trim [deg] | D/W [%] | Cr 10 ³ | Ct 10 ³ | R [lbs] | Lamda - | Trim [deg] | D/W [%] | Cr 10 ³ | Ct 10 ³ | R [lbs] |
| 1.00 | 17.54 | 1.95 | 0.05 | 7.006 | 10.470 | 1.68 | 7.50 | 1.79 | 0.04 | 15.058 | 19.144 | 1.32 |
| 1.26 | 15.90 | 2.02 | 0.06 | 5.025 | 8.403 | 1.95 | 7.41 | 1.85 | 0.05 | 9.877 | 13.785 | 1.50 |
| 1.53 | 14.64 | 2.09 | 0.07 | 3.875 | 7.188 | 2.24 | 7.31 | 1.92 | 0.05 | 7.123 | 10.898 | 1.70 |
| 1.79 | 13.61 | 2.17 | 0.08 | 3.147 | 6.408 | 2.55 | 7.19 | 2.01 | 0.06 | 5.491 | 9.164 | 1.93 |
| 2.05 | 12.74 | 2.26 | 0.09 | 2.660 | 5.880 | 2.88 | 7.06 | 2.10 | 0.07 | 4.452 | 8.043 | 2.19 |
| 2.32 | 11.96 | 2.35 | 0.10 | 2.323 | 5.510 | 3.23 | 6.90 | 2.20 | 0.07 | 3.756 | 7.281 | 2.47 |
| 2.58 | 11.25 | 2.46 | 0.11 | 2.084 | 5.244 | 3.58 | 6.72 | 2.32 | 0.08 | 3.274 | 6.745 | 2.76 |
| 2.84 | 10.60 | 2.58 | 0.12 | 1.913 | 5.053 | 3.95 | 6.53 | 2.44 | 0.09 | 2.932 | 6.360 | 3.07 |
| 3.11 | 9.99 | 2.72 | 0.13 | 1.792 | 4.916 | 4.31 | 6.32 | 2.59 | 0.10 | 2.687 | 6.080 | 3.39 |
| 3.37 | 9.40 | 2.86 | 0.14 | 1.707 | 4.819 | 4.68 | 6.10 | 2.74 | 0.11 | 2.508 | 5.873 | 3.71 |
| 3.63 | 8.85 | 3.02 | 0.15 | 1.647 | 4.752 | 5.04 | 5.87 | 2.90 | 0.12 | 2.375 | 5.717 | 4.04 |
| 3.89 | 8.33 | 3.17 | 0.16 | 1.604 | 4.704 | 5.40 | 5.64 | 3.06 | 0.13 | 2.271 | 5.596 | 4.36 |
| 4.16 | 7.84 | 3.32 | 0.17 | 1.567 | 4.665 | 5.74 | 5.41 | 3.21 | 0.14 | 2.183 | 5.492 | 4.68 |
| 4.42 | 7.40 | 3.46 | 0.18 | 1.530 | 4.626 | 6.06 | 5.20 | 3.35 | 0.15 | 2.098 | 5.396 | 4.99 |
| 4.68 | 7.00 | 3.56 | 0.19 | 1.486 | 4.581 | 6.37 | 5.00 | 3.46 | 0.16 | 2.011 | 5.297 | 5.28 |
| 4.95 | 6.66 | 3.63 | 0.20 | 1.430 | 4.523 | 6.66 | 4.82 | 3.54 | 0.17 | 1.916 | 5.192 | 5.57 |
| 5.21 | 6.35 | 3.66 | 0.21 | 1.364 | 4.454 | 6.94 | 4.66 | 3.59 | 0.18 | 1.814 | 5.079 | 5.84 |
| 5.47 | 6.09 | 3.65 | 0.22 | 1.289 | 4.376 | 7.21 | 4.52 | 3.62 | 0.18 | 1.705 | 4.959 | 6.10 |
| 5.74 | 5.87 | 3.62 | 0.23 | 1.208 | 4.290 | 7.48 | 4.41 | 3.61 | 0.19 | 1.593 | 4.835 | 6.37 |
| 6.00 | 5.67 | 3.57 | 0.23 | 1.126 | 4.202 | 7.74 | 4.30 | 3.59 | 0.20 | 1.481 | 4.711 | 6.62 |



Simulation Info:

28/06/2019 07:50:27 pm

Input Data:

Ship Speed: from Vs1=1.00 m/s to Vs2=6.00 m/s (for 20 different Ship Speed values)

Ship Displacement: Disp=24.20 kp

Breadth at Chine: Bc=0.27 m

Deadrise Angle: b=25.00 deg

LCG: from LCG1=0.57 m to LCG2=0.69 m (for 3 different LCG values)

Fresh water properties at 17.80C:

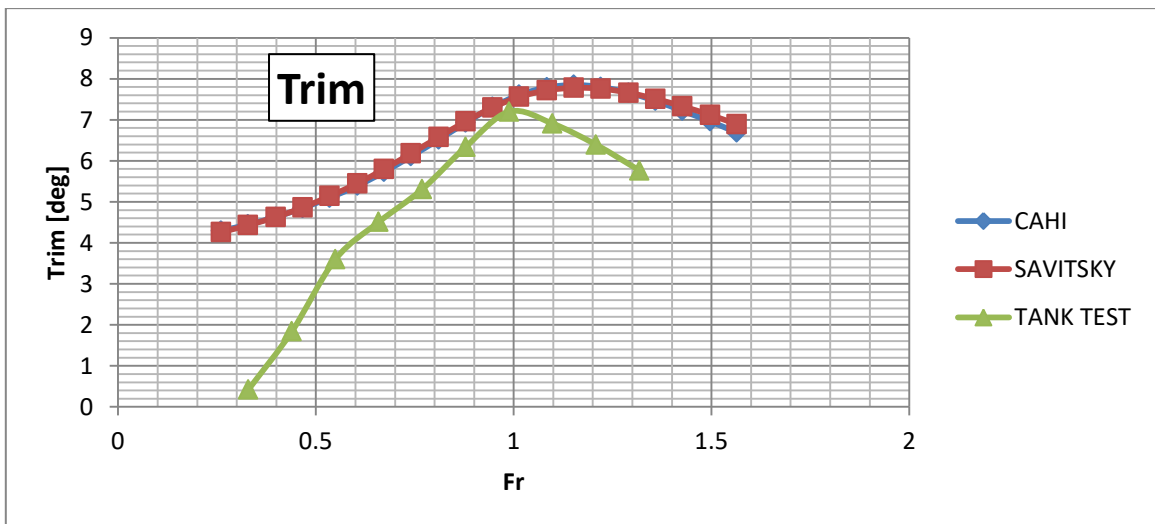
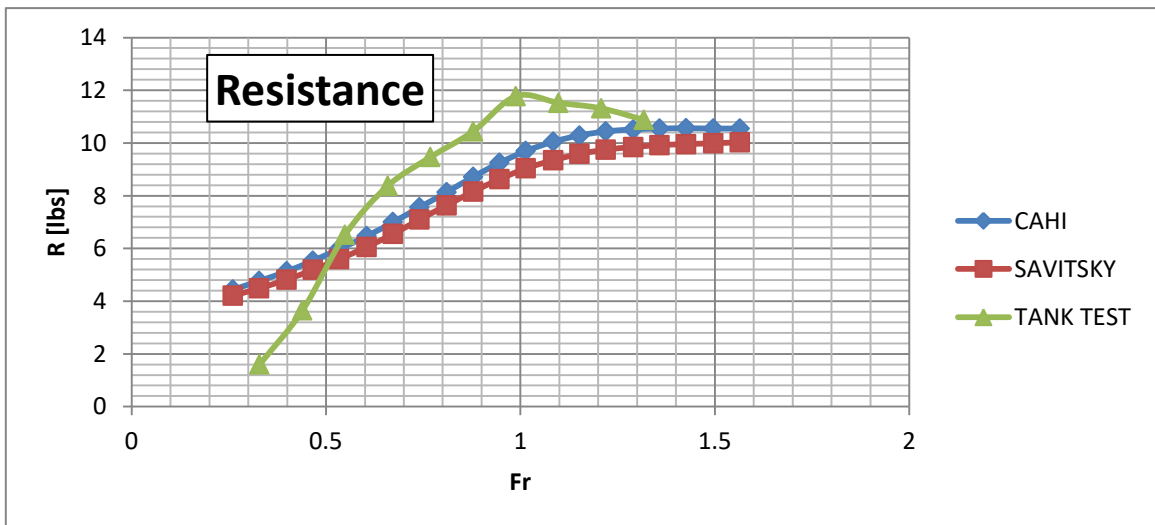
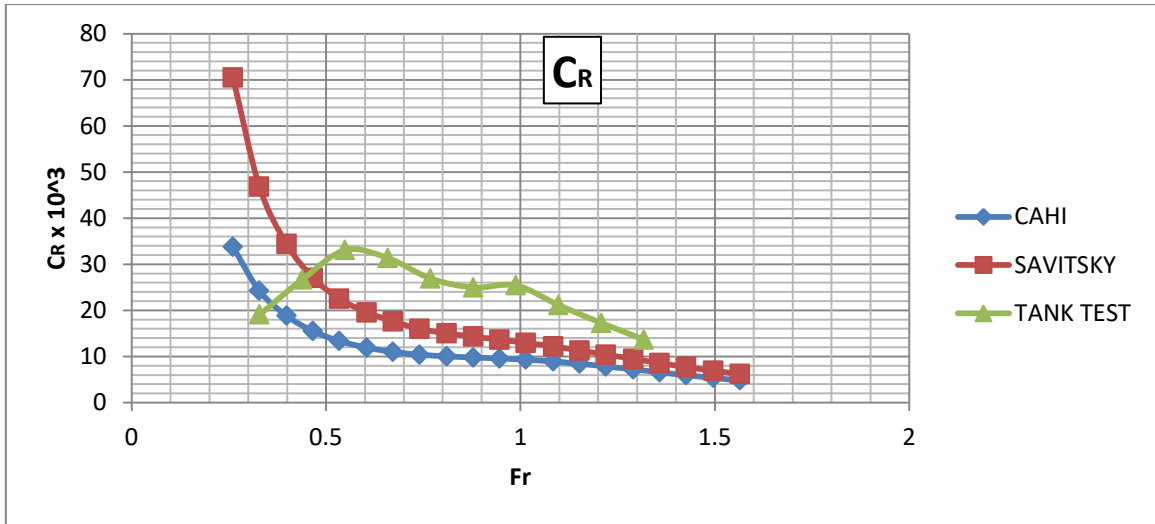
Density=998.54 kg/m³

Viscosity=1.05987*10⁻⁶ m²/s

Results:

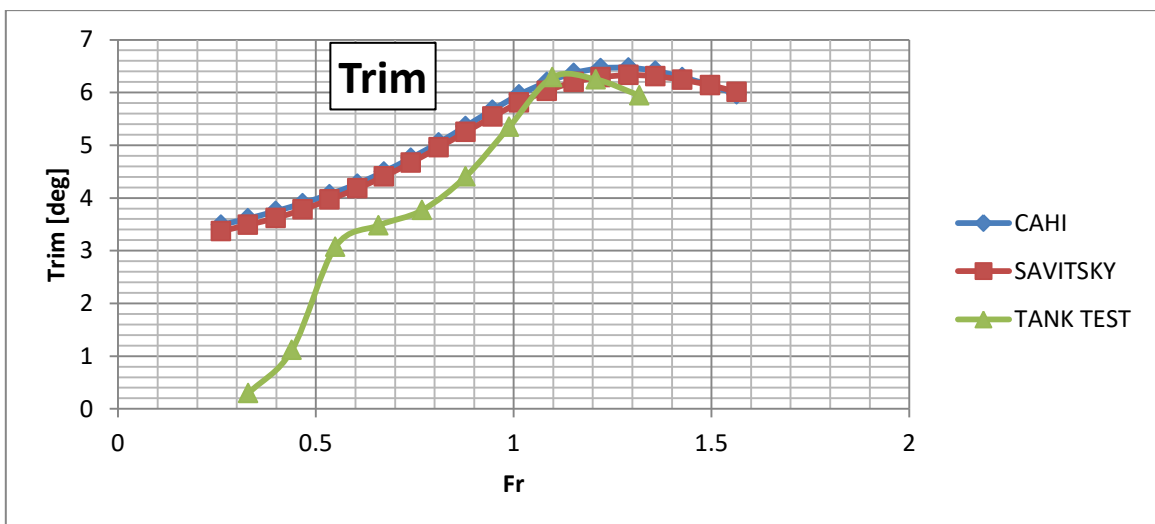
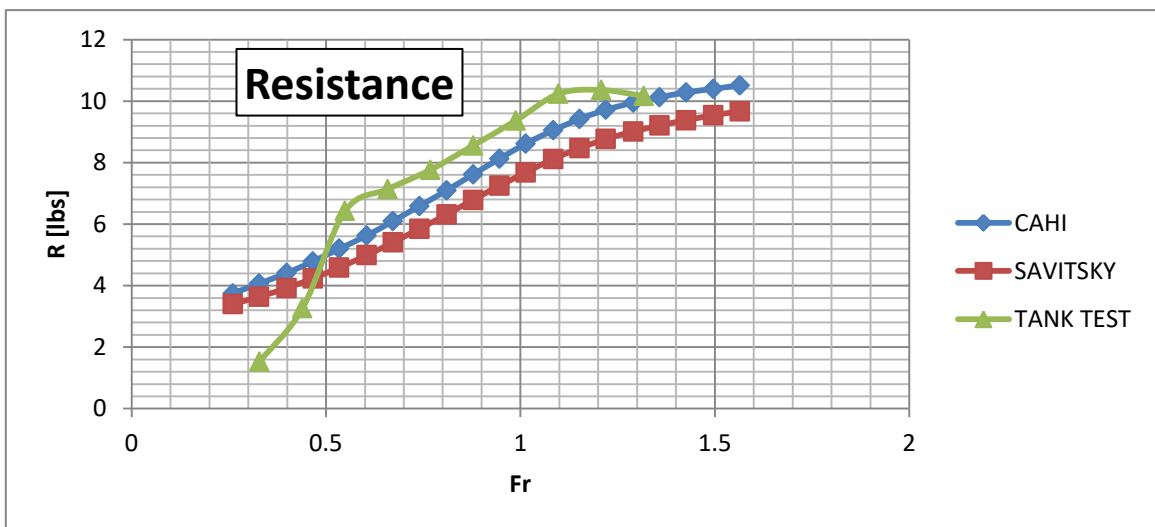
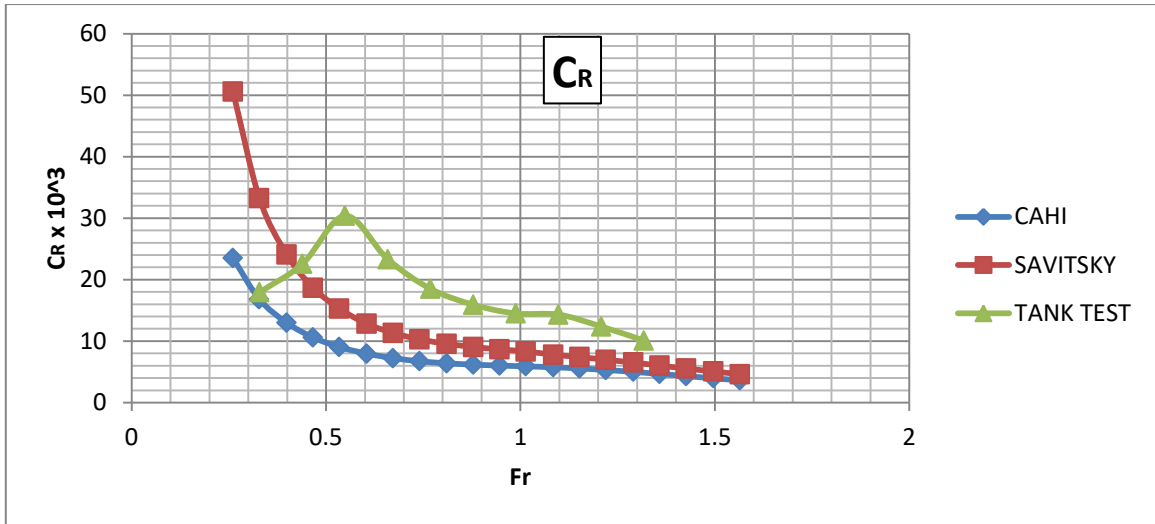
b=25.00 deg Bc=0.27 m Disp=24.20 kp LCG=0.57 m

| ~CAHI~ | | | | | | | ~SAVITSKY~ | | | | | |
|--------|-------|-------|------|-----------------|-----------------|-------|------------|-------|------|-----------------|-----------------|-------|
| Vs | Lamda | Trim | D/W | Cr | Ct | R | Lamda | Trim | D/W | Cr | Ct | R |
| [m/s] | - | [deg] | [%] | 10 ³ | 10 ³ | [lbs] | - | [deg] | [%] | 10 ³ | 10 ³ | [lbs] |
| 1.00 | 13.11 | 4.29 | 0.08 | 33.758 | 37.422 | 4.44 | 6.22 | 4.26 | 0.08 | 70.495 | 74.746 | 4.21 |
| 1.26 | 11.88 | 4.45 | 0.09 | 24.227 | 27.798 | 4.77 | 6.11 | 4.43 | 0.08 | 46.843 | 50.911 | 4.49 |
| 1.53 | 10.93 | 4.63 | 0.10 | 18.819 | 22.320 | 5.13 | 5.97 | 4.63 | 0.09 | 34.363 | 38.298 | 4.82 |
| 1.79 | 10.12 | 4.85 | 0.10 | 15.487 | 18.935 | 5.54 | 5.80 | 4.86 | 0.10 | 27.063 | 30.897 | 5.19 |
| 2.05 | 9.42 | 5.10 | 0.11 | 13.335 | 16.742 | 5.98 | 5.61 | 5.14 | 0.10 | 22.510 | 26.269 | 5.60 |
| 2.32 | 8.79 | 5.39 | 0.12 | 11.917 | 15.293 | 6.47 | 5.39 | 5.45 | 0.11 | 19.564 | 23.264 | 6.06 |
| 2.58 | 8.19 | 5.73 | 0.13 | 10.987 | 14.340 | 7.00 | 5.16 | 5.80 | 0.12 | 17.621 | 21.278 | 6.55 |
| 2.84 | 7.64 | 6.11 | 0.14 | 10.393 | 13.731 | 7.56 | 5.01 | 6.18 | 0.13 | 15.969 | 19.579 | 7.10 |
| 3.11 | 7.11 | 6.52 | 0.15 | 10.025 | 13.353 | 8.14 | 4.77 | 6.58 | 0.14 | 15.027 | 18.612 | 7.64 |
| 3.37 | 6.62 | 6.93 | 0.16 | 9.783 | 13.107 | 8.72 | 4.52 | 6.96 | 0.15 | 14.301 | 17.867 | 8.16 |
| 3.63 | 6.17 | 7.31 | 0.17 | 9.570 | 12.893 | 9.25 | 4.29 | 7.30 | 0.16 | 13.642 | 17.194 | 8.63 |
| 3.89 | 5.77 | 7.61 | 0.18 | 9.299 | 12.620 | 9.70 | 4.08 | 7.56 | 0.17 | 12.949 | 16.489 | 9.04 |
| 4.16 | 5.43 | 7.79 | 0.19 | 8.917 | 12.237 | 10.05 | 3.90 | 7.72 | 0.18 | 12.172 | 15.699 | 9.35 |
| 4.42 | 5.14 | 7.85 | 0.19 | 8.418 | 11.734 | 10.29 | 3.75 | 7.78 | 0.18 | 11.311 | 14.823 | 9.59 |
| 4.68 | 4.90 | 7.80 | 0.20 | 7.830 | 11.141 | 10.44 | 3.62 | 7.76 | 0.18 | 10.396 | 13.893 | 9.75 |
| 4.95 | 4.69 | 7.66 | 0.20 | 7.196 | 10.499 | 10.52 | 3.52 | 7.66 | 0.18 | 9.469 | 12.949 | 9.85 |
| 5.21 | 4.52 | 7.46 | 0.20 | 6.553 | 9.848 | 10.55 | 3.44 | 7.51 | 0.19 | 8.565 | 12.027 | 9.92 |
| 5.47 | 4.38 | 7.22 | 0.20 | 5.930 | 9.215 | 10.56 | 3.37 | 7.33 | 0.19 | 7.711 | 11.153 | 9.96 |
| 5.74 | 4.25 | 6.96 | 0.20 | 5.346 | 8.619 | 10.55 | 3.32 | 7.12 | 0.19 | 6.920 | 10.343 | 9.99 |
| 6.00 | 4.15 | 6.69 | 0.20 | 4.808 | 8.070 | 10.55 | 3.27 | 6.89 | 0.19 | 6.201 | 9.603 | 10.03 |



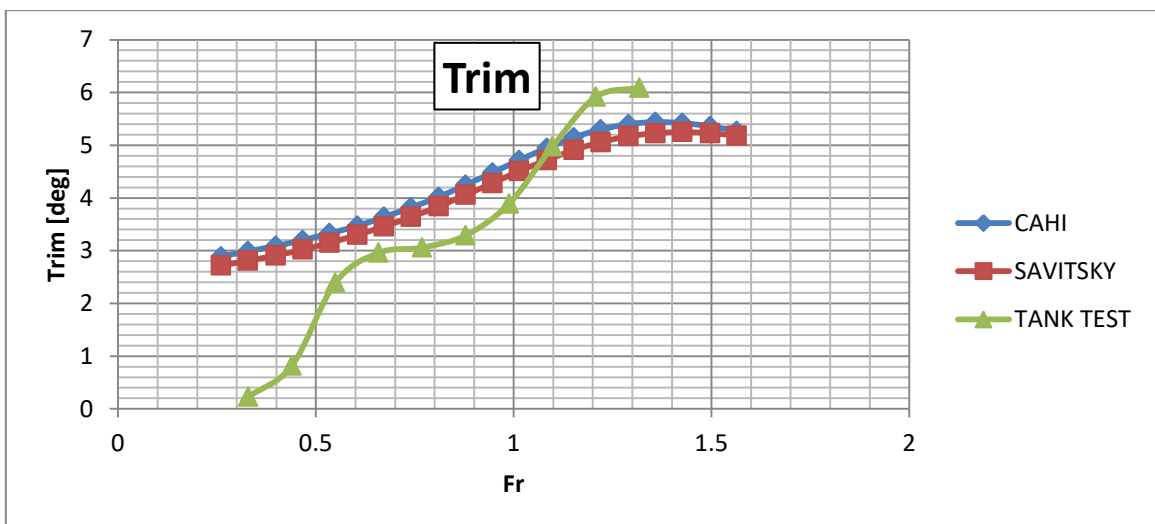
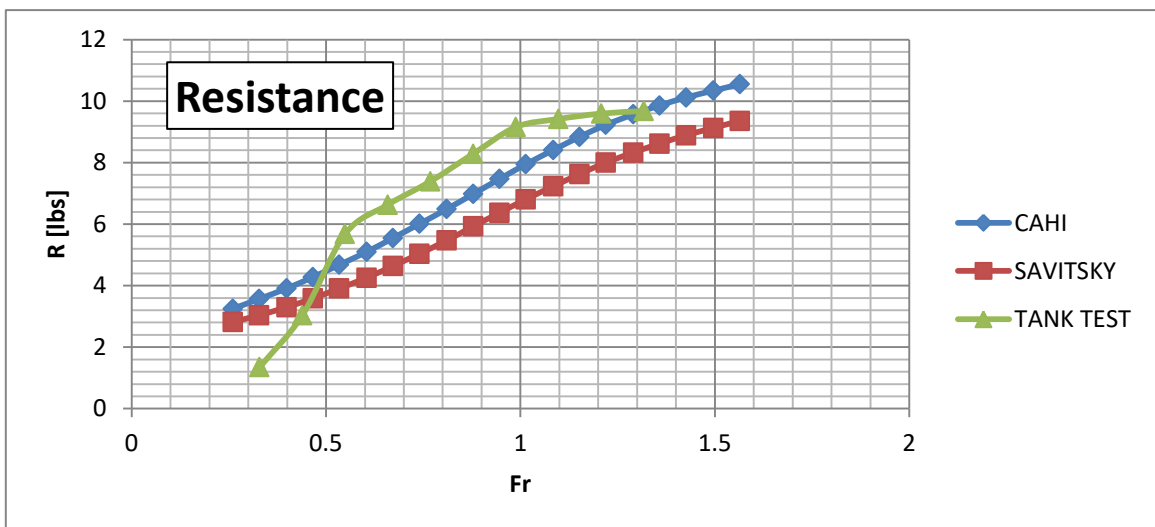
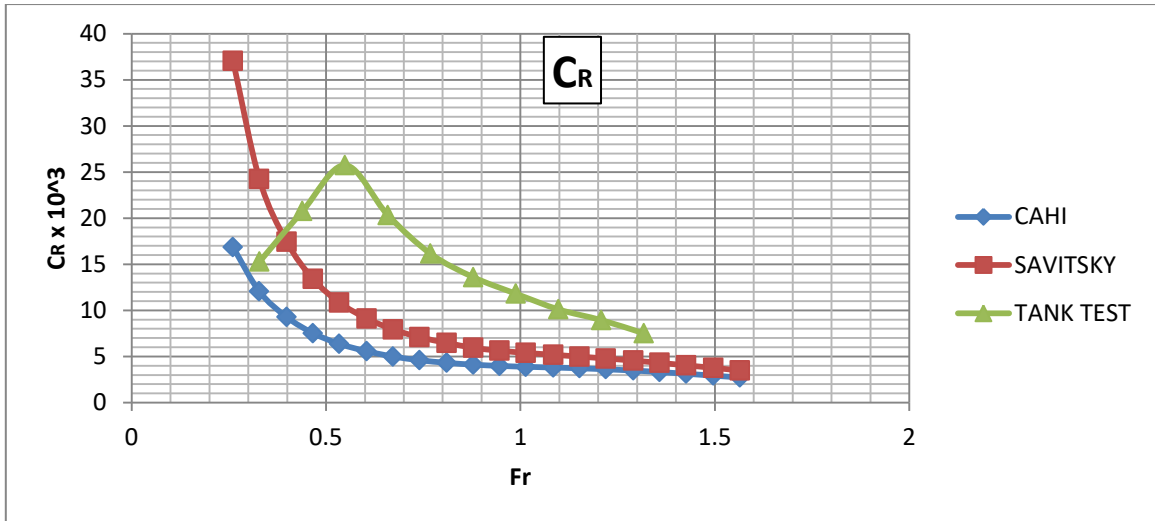
b=25.00 deg Bc=0.27 m Disp=24.20 kp LCG=0.63 m

| ~CAHI~ | | | | | | | ~SAVITSKY~ | | | | | |
|-------------|------------|---------------|------------|-----------------------|-----------------------|------------|------------|---------------|------------|-----------------------|-----------------------|------------|
| Vs [m/s] | Lamda - | Trim [deg] | D/W [%] | Cr 10 ³ | Ct 10 ³ | R [lbs] | Lamda - | Trim [deg] | D/W [%] | Cr 10 ³ | Ct 10 ³ | R [lbs] |
| 1.00 | 15.26 | 3.49 | 0.07 | 23.495 | 27.054 | 3.75 | 6.82 | 3.37 | 0.06 | 50.557 | 54.725 | 3.40 |
| 1.26 | 13.83 | 3.61 | 0.08 | 16.813 | 20.282 | 4.07 | 6.73 | 3.49 | 0.07 | 33.257 | 37.244 | 3.64 |
| 1.53 | 12.73 | 3.75 | 0.08 | 12.986 | 16.388 | 4.41 | 6.62 | 3.62 | 0.07 | 24.091 | 27.944 | 3.92 |
| 1.79 | 11.82 | 3.90 | 0.09 | 10.599 | 13.948 | 4.79 | 6.49 | 3.78 | 0.08 | 18.686 | 22.435 | 4.24 |
| 2.05 | 11.04 | 4.07 | 0.10 | 9.028 | 12.335 | 5.20 | 6.34 | 3.97 | 0.09 | 15.266 | 18.934 | 4.59 |
| 2.32 | 10.33 | 4.27 | 0.11 | 7.962 | 11.237 | 5.63 | 6.25 | 4.18 | 0.09 | 12.819 | 16.414 | 4.99 |
| 2.58 | 9.69 | 4.50 | 0.11 | 7.230 | 10.480 | 6.10 | 6.04 | 4.41 | 0.10 | 11.323 | 14.869 | 5.41 |
| 2.84 | 9.08 | 4.76 | 0.12 | 6.730 | 9.962 | 6.59 | 5.81 | 4.67 | 0.11 | 10.290 | 13.797 | 5.85 |
| 3.11 | 8.51 | 5.05 | 0.13 | 6.396 | 9.614 | 7.10 | 5.56 | 4.96 | 0.12 | 9.568 | 13.046 | 6.32 |
| 3.37 | 7.97 | 5.36 | 0.14 | 6.176 | 9.385 | 7.62 | 5.31 | 5.25 | 0.13 | 9.051 | 12.507 | 6.79 |
| 3.63 | 7.47 | 5.67 | 0.15 | 6.023 | 9.228 | 8.13 | 5.05 | 5.54 | 0.14 | 8.655 | 12.096 | 7.25 |
| 3.89 | 7.00 | 5.96 | 0.16 | 5.894 | 9.097 | 8.62 | 4.81 | 5.81 | 0.14 | 8.313 | 11.741 | 7.68 |
| 4.16 | 6.58 | 6.20 | 0.17 | 5.747 | 8.949 | 9.05 | 4.68 | 6.03 | 0.15 | 7.793 | 11.198 | 8.12 |
| 4.42 | 6.21 | 6.37 | 0.18 | 5.553 | 8.754 | 9.42 | 4.49 | 6.20 | 0.16 | 7.403 | 10.795 | 8.47 |
| 4.68 | 5.89 | 6.46 | 0.18 | 5.301 | 8.500 | 9.72 | 4.32 | 6.29 | 0.16 | 6.972 | 10.353 | 8.77 |
| 4.95 | 5.61 | 6.47 | 0.19 | 4.999 | 8.194 | 9.95 | 4.18 | 6.33 | 0.17 | 6.508 | 9.876 | 9.01 |
| 5.21 | 5.38 | 6.41 | 0.19 | 4.662 | 7.851 | 10.13 | 4.05 | 6.31 | 0.17 | 6.025 | 9.379 | 9.21 |
| 5.47 | 5.18 | 6.29 | 0.19 | 4.309 | 7.492 | 10.28 | 3.95 | 6.24 | 0.18 | 5.539 | 8.879 | 9.38 |
| 5.74 | 5.01 | 6.14 | 0.19 | 3.956 | 7.131 | 10.40 | 3.87 | 6.14 | 0.18 | 5.066 | 8.390 | 9.54 |
| 6.00 | 4.86 | 5.96 | 0.20 | 3.615 | 6.781 | 10.51 | 3.80 | 6.01 | 0.18 | 4.615 | 7.923 | 9.67 |



b=25.00 deg Bc=0.27 m Disp=24.20 kp LCG=0.69 m

| ~CAHI~ | | | | | | | ~SAVITSKY~ | | | | | |
|-------------|------------|---------------|------------|-----------------------|-----------------------|------------|------------|---------------|------------|-----------------------|-----------------------|------------|
| Vs [m/s] | Lamda - | Trim [deg] | D/W [%] | Cr 10 ³ | Ct 10 ³ | R [lbs] | Lamda - | Trim [deg] | D/W [%] | Cr 10 ³ | Ct 10 ³ | R [lbs] |
| 1.00 | 17.54 | 2.89 | 0.06 | 16.847 | 20.312 | 3.25 | 7.50 | 2.72 | 0.05 | 37.067 | 41.155 | 2.82 |
| 1.26 | 15.90 | 2.99 | 0.07 | 12.044 | 15.424 | 3.57 | 7.41 | 2.81 | 0.06 | 24.242 | 28.151 | 3.04 |
| 1.53 | 14.64 | 3.09 | 0.07 | 9.272 | 12.586 | 3.91 | 7.31 | 2.91 | 0.06 | 17.433 | 21.209 | 3.30 |
| 1.79 | 13.61 | 3.20 | 0.08 | 7.527 | 10.790 | 4.28 | 7.19 | 3.02 | 0.07 | 13.403 | 17.077 | 3.59 |
| 2.05 | 12.74 | 3.33 | 0.09 | 6.365 | 9.586 | 4.68 | 7.06 | 3.15 | 0.07 | 10.837 | 14.430 | 3.91 |
| 2.32 | 11.96 | 3.47 | 0.10 | 5.562 | 8.750 | 5.10 | 6.90 | 3.30 | 0.08 | 9.120 | 12.647 | 4.26 |
| 2.58 | 11.25 | 3.64 | 0.10 | 4.996 | 8.158 | 5.55 | 6.72 | 3.46 | 0.09 | 7.930 | 11.403 | 4.64 |
| 2.84 | 10.60 | 3.82 | 0.11 | 4.595 | 7.736 | 6.01 | 6.53 | 3.64 | 0.09 | 7.087 | 10.516 | 5.04 |
| 3.11 | 9.99 | 4.02 | 0.12 | 4.312 | 7.438 | 6.49 | 6.32 | 3.84 | 0.10 | 6.479 | 9.874 | 5.47 |
| 3.37 | 9.40 | 4.25 | 0.13 | 4.115 | 7.230 | 6.98 | 6.19 | 4.06 | 0.11 | 5.942 | 9.299 | 5.93 |
| 3.63 | 8.85 | 4.48 | 0.14 | 3.980 | 7.087 | 7.47 | 5.95 | 4.28 | 0.12 | 5.630 | 8.967 | 6.37 |
| 3.89 | 8.33 | 4.72 | 0.15 | 3.883 | 6.986 | 7.95 | 5.70 | 4.51 | 0.13 | 5.388 | 8.709 | 6.81 |
| 4.16 | 7.84 | 4.95 | 0.16 | 3.802 | 6.902 | 8.41 | 5.45 | 4.72 | 0.14 | 5.183 | 8.491 | 7.23 |
| 4.42 | 7.40 | 5.15 | 0.17 | 3.717 | 6.816 | 8.84 | 5.22 | 4.91 | 0.14 | 4.987 | 8.285 | 7.63 |
| 4.68 | 7.00 | 5.30 | 0.17 | 3.611 | 6.708 | 9.23 | 5.01 | 5.06 | 0.15 | 4.781 | 8.069 | 8.00 |
| 4.95 | 6.66 | 5.40 | 0.18 | 3.475 | 6.572 | 9.57 | 4.82 | 5.17 | 0.16 | 4.555 | 7.833 | 8.33 |
| 5.21 | 6.35 | 5.44 | 0.18 | 3.311 | 6.405 | 9.86 | 4.66 | 5.23 | 0.16 | 4.306 | 7.574 | 8.62 |
| 5.47 | 6.09 | 5.42 | 0.19 | 3.124 | 6.214 | 10.12 | 4.52 | 5.25 | 0.17 | 4.040 | 7.297 | 8.89 |
| 5.74 | 5.87 | 5.36 | 0.19 | 2.923 | 6.008 | 10.34 | 4.40 | 5.23 | 0.17 | 3.765 | 7.010 | 9.13 |
| 6.00 | 5.67 | 5.27 | 0.20 | 2.716 | 5.795 | 10.55 | 4.30 | 5.18 | 0.18 | 3.488 | 6.720 | 9.36 |



Simulation Info:

 28/06/2019 07:50:54 pm

Input Data:

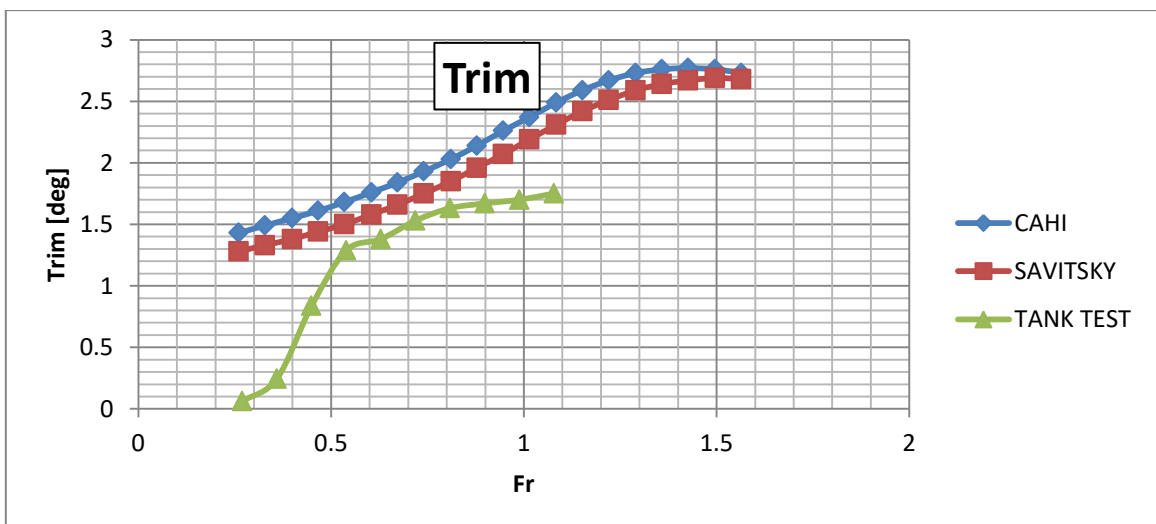
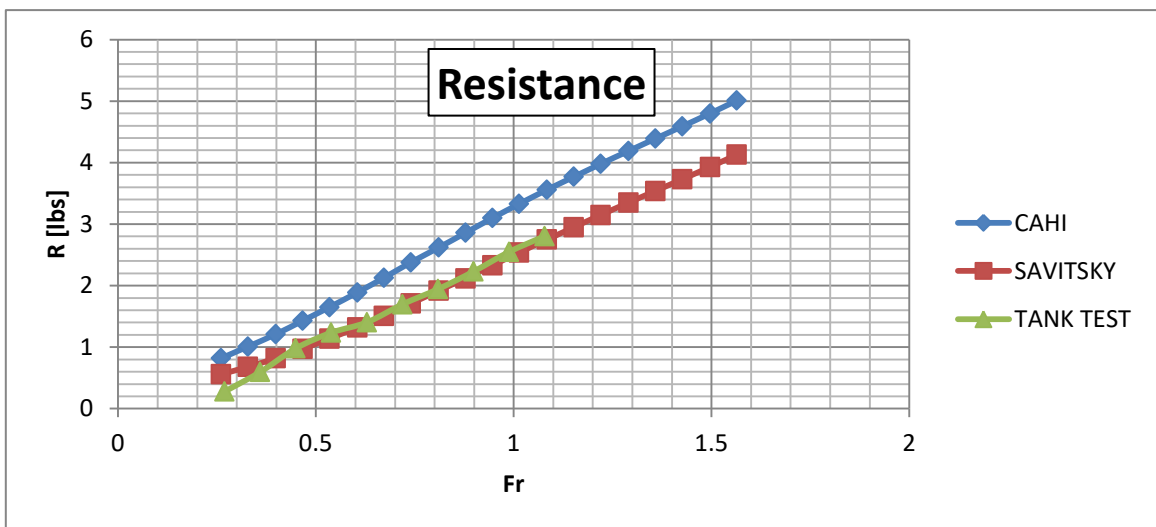
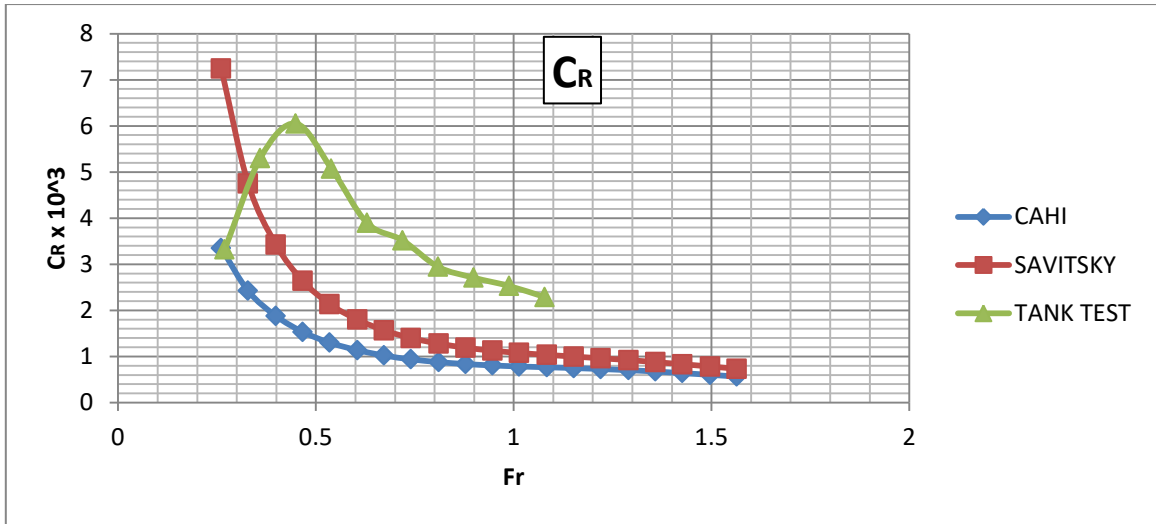
 Ship Speed: from Vs1=1.00 m/s to Vs2=6.00 m/s (for 20 different Ship Speed values)
 Ship Displacement: Disp=7.27 kp
 Breadth at Chine: Bc=0.21 m
 Deadrise Angle: b=25.00 deg
 LCG: from LCG1=0.63 m to LCG2=0.75 m (for 3 different LCG values)

Fresh water properties at 17.60C:
 Density=998.58 kg/m³
 Viscosity=1.06523*10⁻⁶ m²/s

Results:

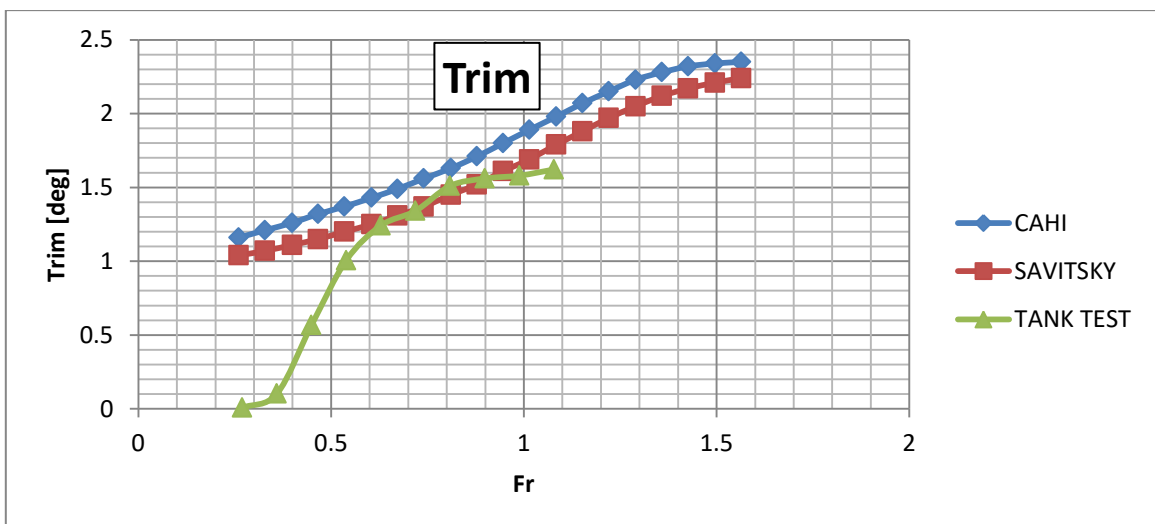
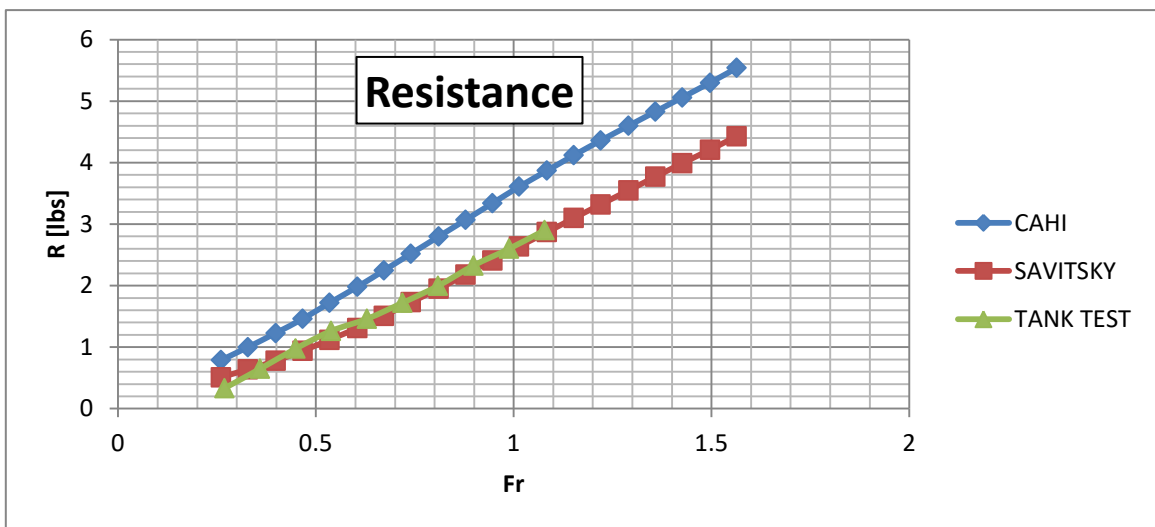
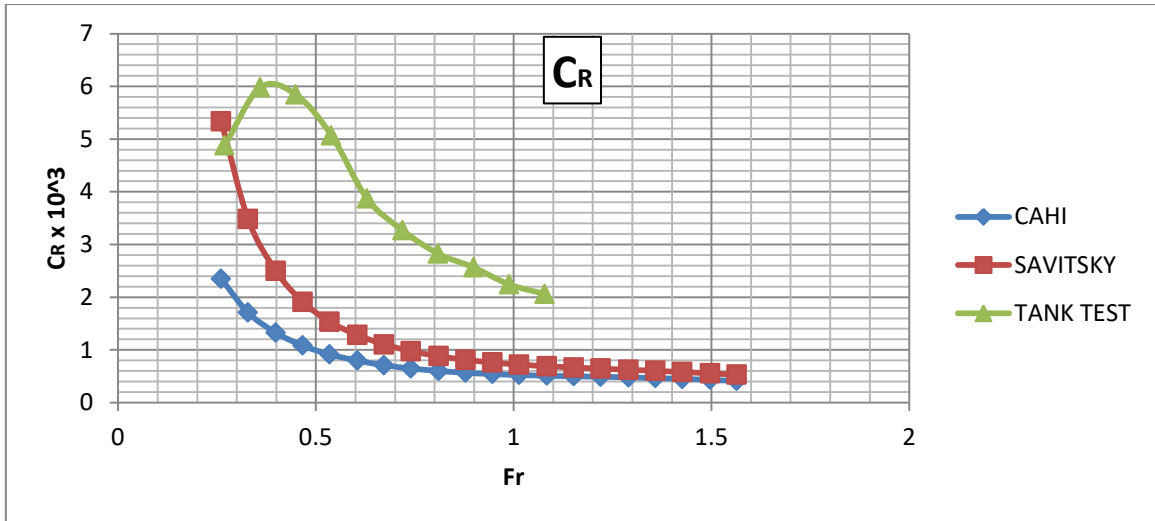
b=25.00 deg Bc=0.21 m Disp=7.27 kp LCG=0.63 m

| ~CAHI~ | | | | | | | ~SAVITSKY~ | | | | | |
|--------|-------|-------|------|-----------------|-----------------|-------|------------|-------|------|-----------------|-----------------|-------|
| Vs | Lamda | Trim | D/W | Cr | Ct | R | Lamda | Trim | D/W | Cr | Ct | R |
| [m/s] | - | [deg] | [%] | 10 ³ | 10 ³ | [lbs] | - | [deg] | [%] | 10 ³ | 10 ³ | [lbs] |
| 1.00 | 21.04 | 1.43 | 0.05 | 3.349 | 6.854 | 0.82 | 8.72 | 1.28 | 0.04 | 7.246 | 11.411 | 0.56 |
| 1.26 | 19.04 | 1.49 | 0.06 | 2.423 | 5.841 | 1.01 | 8.63 | 1.33 | 0.04 | 4.754 | 8.735 | 0.68 |
| 1.53 | 17.51 | 1.55 | 0.08 | 1.879 | 5.232 | 1.21 | 8.52 | 1.38 | 0.05 | 3.427 | 7.271 | 0.82 |
| 1.79 | 16.26 | 1.61 | 0.09 | 1.533 | 4.834 | 1.43 | 8.39 | 1.44 | 0.06 | 2.640 | 6.378 | 0.97 |
| 2.05 | 15.20 | 1.68 | 0.10 | 1.300 | 4.559 | 1.65 | 8.24 | 1.50 | 0.07 | 2.137 | 5.791 | 1.14 |
| 2.32 | 14.27 | 1.76 | 0.12 | 1.137 | 4.363 | 1.89 | 8.06 | 1.58 | 0.08 | 1.800 | 5.385 | 1.32 |
| 2.58 | 13.42 | 1.84 | 0.13 | 1.021 | 4.221 | 2.13 | 7.87 | 1.66 | 0.09 | 1.566 | 5.094 | 1.51 |
| 2.84 | 12.64 | 1.93 | 0.15 | 0.938 | 4.116 | 2.38 | 7.66 | 1.75 | 0.11 | 1.399 | 4.882 | 1.71 |
| 3.11 | 11.91 | 2.03 | 0.16 | 0.878 | 4.040 | 2.62 | 7.43 | 1.85 | 0.12 | 1.279 | 4.724 | 1.92 |
| 3.37 | 11.22 | 2.14 | 0.18 | 0.836 | 3.986 | 2.86 | 7.18 | 1.96 | 0.13 | 1.191 | 4.606 | 2.12 |
| 3.63 | 10.56 | 2.26 | 0.19 | 0.806 | 3.948 | 3.10 | 6.93 | 2.07 | 0.15 | 1.126 | 4.517 | 2.33 |
| 3.89 | 9.94 | 2.37 | 0.21 | 0.784 | 3.921 | 3.33 | 6.67 | 2.19 | 0.16 | 1.076 | 4.447 | 2.54 |
| 4.16 | 9.37 | 2.49 | 0.22 | 0.766 | 3.900 | 3.56 | 6.41 | 2.31 | 0.17 | 1.035 | 4.391 | 2.75 |
| 4.42 | 8.84 | 2.59 | 0.24 | 0.749 | 3.881 | 3.77 | 6.16 | 2.42 | 0.18 | 0.998 | 4.341 | 2.95 |
| 4.68 | 8.36 | 2.67 | 0.25 | 0.728 | 3.859 | 3.98 | 5.93 | 2.51 | 0.20 | 0.961 | 4.292 | 3.15 |
| 4.95 | 7.94 | 2.73 | 0.26 | 0.703 | 3.833 | 4.19 | 5.71 | 2.59 | 0.21 | 0.922 | 4.242 | 3.35 |
| 5.21 | 7.58 | 2.76 | 0.27 | 0.674 | 3.801 | 4.39 | 5.52 | 2.64 | 0.22 | 0.878 | 4.188 | 3.54 |
| 5.47 | 7.26 | 2.77 | 0.29 | 0.639 | 3.763 | 4.59 | 5.35 | 2.67 | 0.23 | 0.832 | 4.130 | 3.73 |
| 5.74 | 6.98 | 2.76 | 0.30 | 0.602 | 3.722 | 4.80 | 5.20 | 2.69 | 0.25 | 0.783 | 4.070 | 3.93 |
| 6.00 | 6.74 | 2.73 | 0.31 | 0.564 | 3.678 | 5.01 | 5.08 | 2.68 | 0.26 | 0.733 | 4.008 | 4.13 |



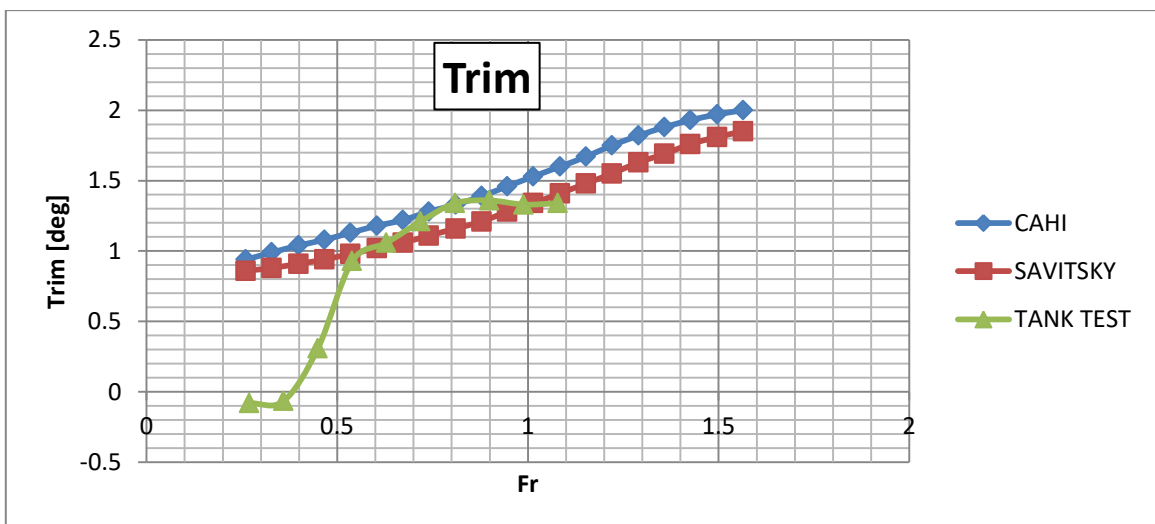
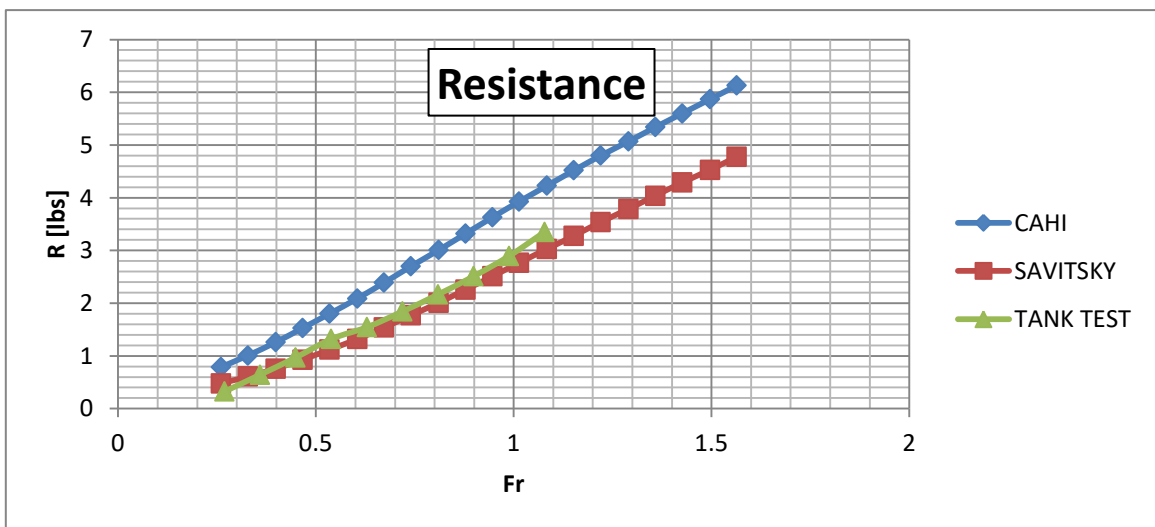
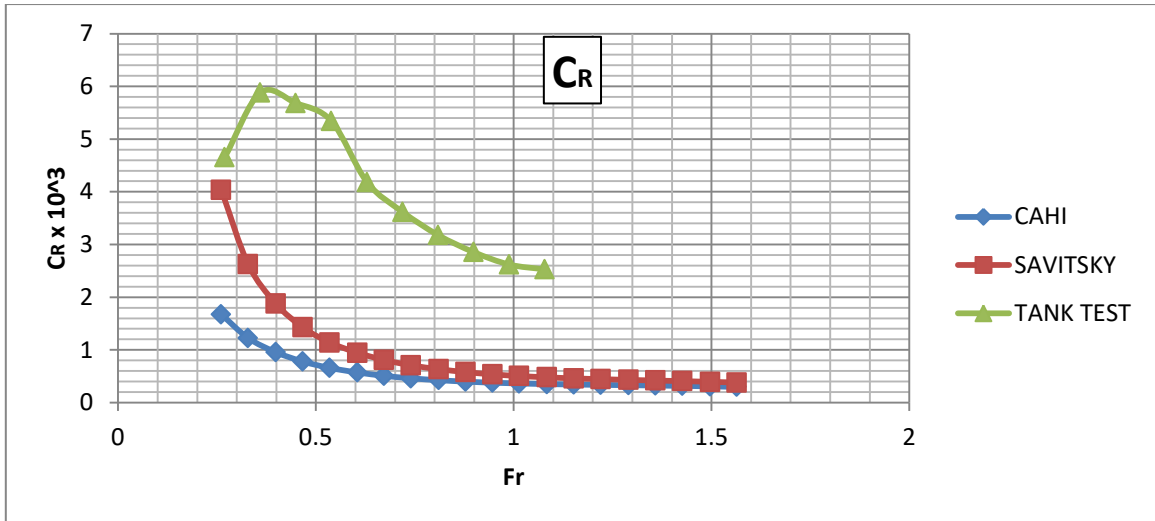
b=25.00 deg Bc=0.21 m Disp=7.27 kp LCG=0.69 m

| ~CAHI~ | | | | | | | ~SAVITSKY~ | | | | | |
|-------------|------------|---------------|------------|-----------------------|-----------------------|------------|------------|---------------|------------|-----------------------|-----------------------|------------|
| Vs [m/s] | Lamda - | Trim [deg] | D/W [%] | Cr 10 ³ | Ct 10 ³ | R [lbs] | Lamda - | Trim [deg] | D/W [%] | Cr 10 ³ | Ct 10 ³ | R [lbs] |
| 1.00 | 24.28 | 1.16 | 0.05 | 2.349 | 5.761 | 0.79 | 9.57 | 1.04 | 0.03 | 5.337 | 9.423 | 0.51 |
| 1.26 | 21.96 | 1.21 | 0.06 | 1.707 | 5.037 | 1.00 | 9.49 | 1.07 | 0.04 | 3.486 | 7.392 | 0.64 |
| 1.53 | 20.20 | 1.26 | 0.08 | 1.326 | 4.593 | 1.23 | 9.39 | 1.11 | 0.05 | 2.499 | 6.270 | 0.78 |
| 1.79 | 18.78 | 1.32 | 0.09 | 1.081 | 4.297 | 1.46 | 9.28 | 1.15 | 0.06 | 1.913 | 5.578 | 0.94 |
| 2.05 | 17.58 | 1.37 | 0.11 | 0.914 | 4.089 | 1.72 | 9.14 | 1.20 | 0.07 | 1.536 | 5.118 | 1.12 |
| 2.32 | 16.54 | 1.43 | 0.12 | 0.796 | 3.937 | 1.98 | 8.98 | 1.25 | 0.08 | 1.282 | 4.795 | 1.31 |
| 2.58 | 15.60 | 1.49 | 0.14 | 0.710 | 3.825 | 2.25 | 8.80 | 1.31 | 0.09 | 1.104 | 4.559 | 1.51 |
| 2.84 | 14.74 | 1.56 | 0.16 | 0.647 | 3.739 | 2.52 | 8.61 | 1.37 | 0.11 | 0.976 | 4.384 | 1.73 |
| 3.11 | 13.94 | 1.63 | 0.17 | 0.601 | 3.675 | 2.80 | 8.39 | 1.45 | 0.12 | 0.882 | 4.250 | 1.95 |
| 3.37 | 13.19 | 1.71 | 0.19 | 0.566 | 3.627 | 3.07 | 8.16 | 1.52 | 0.14 | 0.812 | 4.147 | 2.18 |
| 3.63 | 12.48 | 1.80 | 0.21 | 0.541 | 3.592 | 3.34 | 7.92 | 1.61 | 0.15 | 0.760 | 4.068 | 2.41 |
| 3.89 | 11.80 | 1.89 | 0.23 | 0.523 | 3.566 | 3.61 | 7.67 | 1.69 | 0.16 | 0.721 | 4.006 | 2.64 |
| 4.16 | 11.16 | 1.98 | 0.24 | 0.510 | 3.548 | 3.87 | 7.41 | 1.79 | 0.18 | 0.690 | 3.958 | 2.87 |
| 4.42 | 10.56 | 2.07 | 0.26 | 0.499 | 3.534 | 4.12 | 7.15 | 1.88 | 0.19 | 0.666 | 3.918 | 3.10 |
| 4.68 | 10.00 | 2.15 | 0.27 | 0.489 | 3.522 | 4.36 | 6.89 | 1.97 | 0.21 | 0.644 | 3.884 | 3.32 |
| 4.95 | 9.49 | 2.23 | 0.29 | 0.478 | 3.510 | 4.60 | 6.65 | 2.05 | 0.22 | 0.624 | 3.853 | 3.55 |
| 5.21 | 9.03 | 2.28 | 0.30 | 0.465 | 3.496 | 4.83 | 6.42 | 2.12 | 0.24 | 0.603 | 3.822 | 3.77 |
| 5.47 | 8.62 | 2.32 | 0.32 | 0.449 | 3.479 | 5.06 | 6.21 | 2.17 | 0.25 | 0.580 | 3.790 | 3.99 |
| 5.74 | 8.26 | 2.34 | 0.33 | 0.431 | 3.458 | 5.30 | 6.03 | 2.21 | 0.26 | 0.555 | 3.756 | 4.21 |
| 6.00 | 7.95 | 2.35 | 0.35 | 0.410 | 3.434 | 5.54 | 5.86 | 2.24 | 0.28 | 0.529 | 3.720 | 4.43 |



b=25.00 deg Bc=0.21 m Disp=7.27 kp LCG=0.75 m

| ~CAHI~ | | | | | | | ~SAVITSKY~ | | | | | |
|-------------|------------|---------------|------------|-----------------------|-----------------------|------------|------------|---------------|------------|-----------------------|-----------------------|------------|
| Vs [m/s] | Lamda - | Trim [deg] | D/W [%] | Cr 10 ³ | Ct 10 ³ | R [lbs] | Lamda - | Trim [deg] | D/W [%] | Cr 10 ³ | Ct 10 ³ | R [lbs] |
| 1.00 | 27.70 | 0.94 | 0.05 | 1.675 | 5.005 | 0.79 | 10.43 | 0.86 | 0.03 | 4.038 | 8.054 | 0.48 |
| 1.26 | 25.04 | 0.99 | 0.06 | 1.226 | 4.477 | 1.01 | 10.36 | 0.88 | 0.04 | 2.629 | 6.468 | 0.61 |
| 1.53 | 23.04 | 1.04 | 0.08 | 0.956 | 4.145 | 1.26 | 10.26 | 0.91 | 0.05 | 1.877 | 5.583 | 0.76 |
| 1.79 | 21.43 | 1.08 | 0.10 | 0.780 | 3.920 | 1.53 | 10.15 | 0.94 | 0.06 | 1.429 | 5.031 | 0.93 |
| 2.05 | 20.09 | 1.13 | 0.11 | 0.659 | 3.759 | 1.80 | 10.03 | 0.98 | 0.07 | 1.141 | 4.660 | 1.12 |
| 2.32 | 18.92 | 1.18 | 0.13 | 0.572 | 3.640 | 2.09 | 9.88 | 1.02 | 0.08 | 0.946 | 4.395 | 1.32 |
| 2.58 | 17.89 | 1.22 | 0.15 | 0.508 | 3.549 | 2.39 | 9.72 | 1.06 | 0.10 | 0.808 | 4.200 | 1.54 |
| 2.84 | 16.94 | 1.28 | 0.17 | 0.461 | 3.478 | 2.70 | 9.54 | 1.11 | 0.11 | 0.708 | 4.052 | 1.77 |
| 3.11 | 16.07 | 1.33 | 0.19 | 0.425 | 3.424 | 3.01 | 9.34 | 1.16 | 0.13 | 0.634 | 3.937 | 2.01 |
| 3.37 | 15.26 | 1.39 | 0.21 | 0.398 | 3.382 | 3.32 | 9.13 | 1.21 | 0.14 | 0.579 | 3.846 | 2.26 |
| 3.63 | 14.49 | 1.46 | 0.23 | 0.378 | 3.349 | 3.63 | 8.90 | 1.28 | 0.16 | 0.536 | 3.775 | 2.51 |
| 3.89 | 13.76 | 1.53 | 0.25 | 0.363 | 3.325 | 3.93 | 8.66 | 1.34 | 0.17 | 0.504 | 3.718 | 2.77 |
| 4.16 | 13.06 | 1.60 | 0.26 | 0.351 | 3.307 | 4.23 | 8.41 | 1.41 | 0.19 | 0.480 | 3.673 | 3.03 |
| 4.42 | 12.40 | 1.67 | 0.28 | 0.343 | 3.294 | 4.52 | 8.15 | 1.48 | 0.20 | 0.460 | 3.636 | 3.28 |
| 4.68 | 11.77 | 1.75 | 0.30 | 0.336 | 3.284 | 4.80 | 7.89 | 1.55 | 0.22 | 0.445 | 3.606 | 3.54 |
| 4.95 | 11.19 | 1.82 | 0.32 | 0.330 | 3.276 | 5.07 | 7.63 | 1.63 | 0.24 | 0.431 | 3.581 | 3.79 |
| 5.21 | 10.65 | 1.88 | 0.33 | 0.324 | 3.269 | 5.34 | 7.38 | 1.69 | 0.25 | 0.419 | 3.559 | 4.04 |
| 5.47 | 10.15 | 1.93 | 0.35 | 0.317 | 3.261 | 5.60 | 7.14 | 1.76 | 0.27 | 0.407 | 3.537 | 4.29 |
| 5.74 | 9.71 | 1.97 | 0.37 | 0.308 | 3.251 | 5.87 | 6.92 | 1.81 | 0.28 | 0.394 | 3.516 | 4.53 |
| 6.00 | 9.31 | 2.00 | 0.38 | 0.298 | 3.240 | 6.13 | 6.72 | 1.85 | 0.30 | 0.381 | 3.494 | 4.78 |



Simulation Info:

 28/06/2019 07:51:11 pm

Input Data:

 Ship Speed: from Vs1=1.00 m/s to Vs2=6.00 m/s (for 20 different Ship Speed values)

Ship Displacement: Disp=10.44 kp

Breadth at Chine: Bc=0.21 m

Deadrise Angle: b=25.00 deg

LCG: from LCG1=0.63 m to LCG2=0.75 m (for 3 different LCG values)

Fresh water properties at 17.80C:

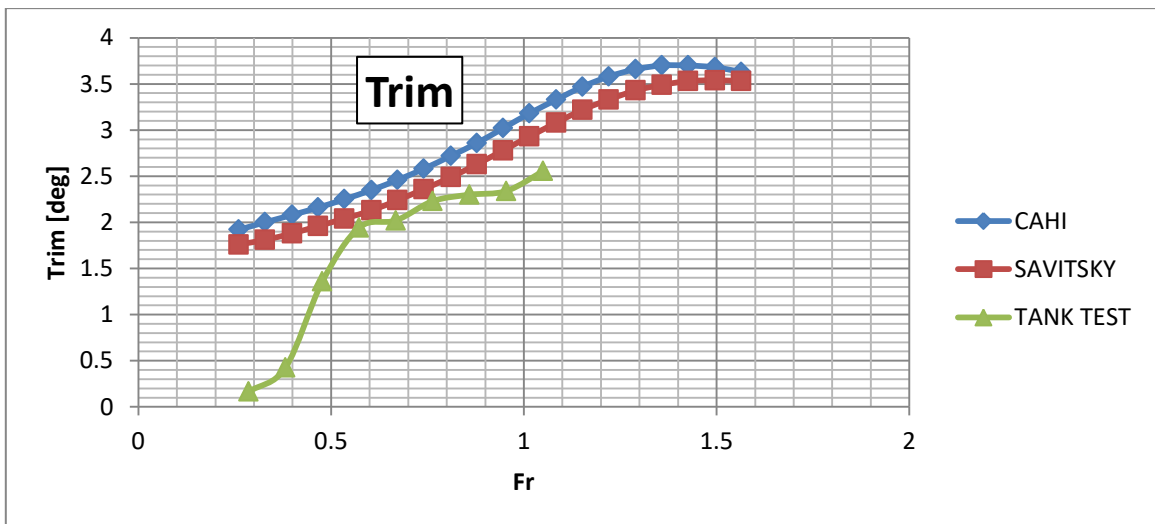
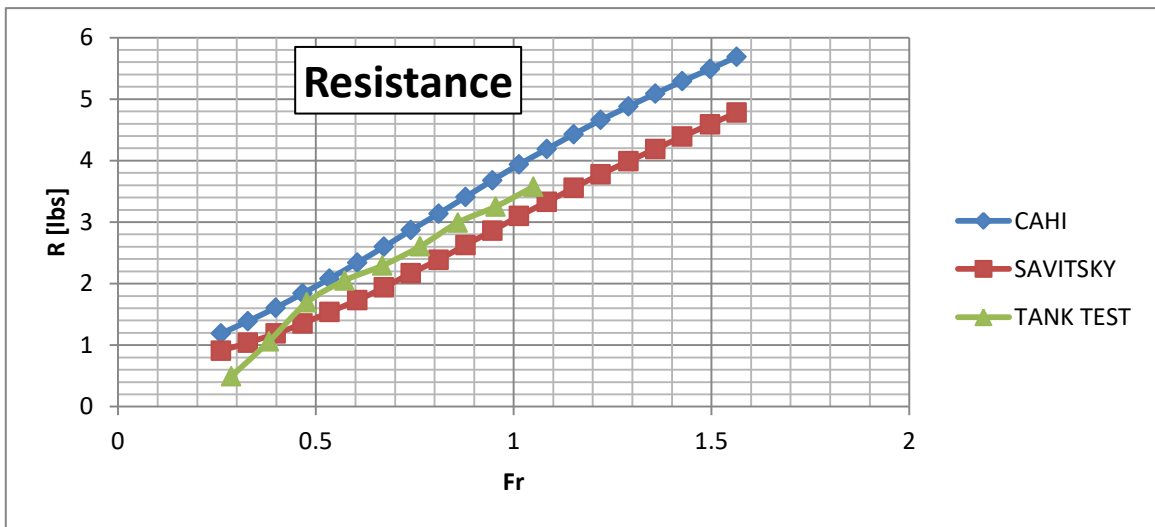
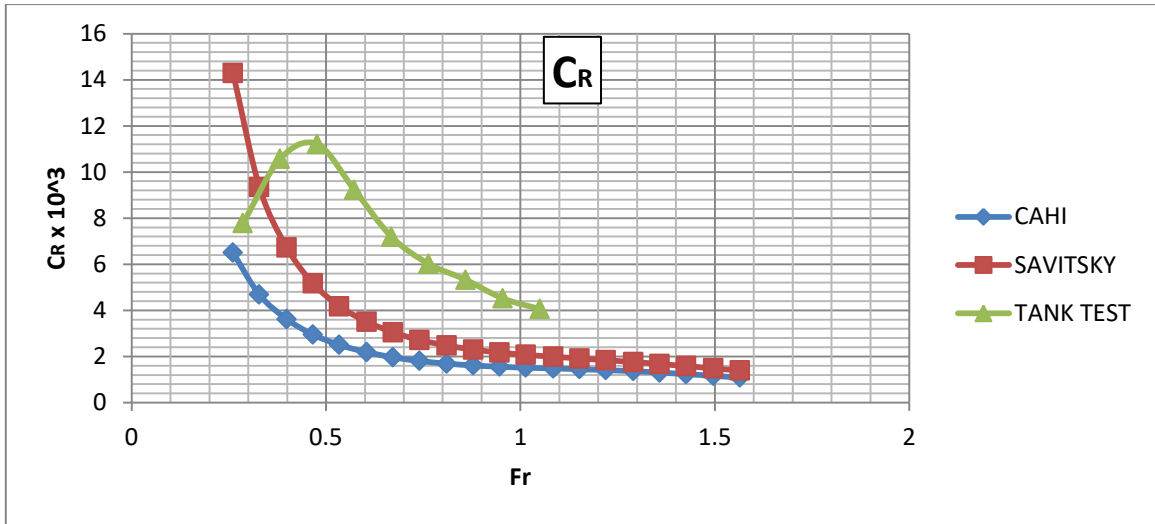
Density=998.54 kg/m³

Viscosity=1.05987*10⁻⁶ m²/s

Results:

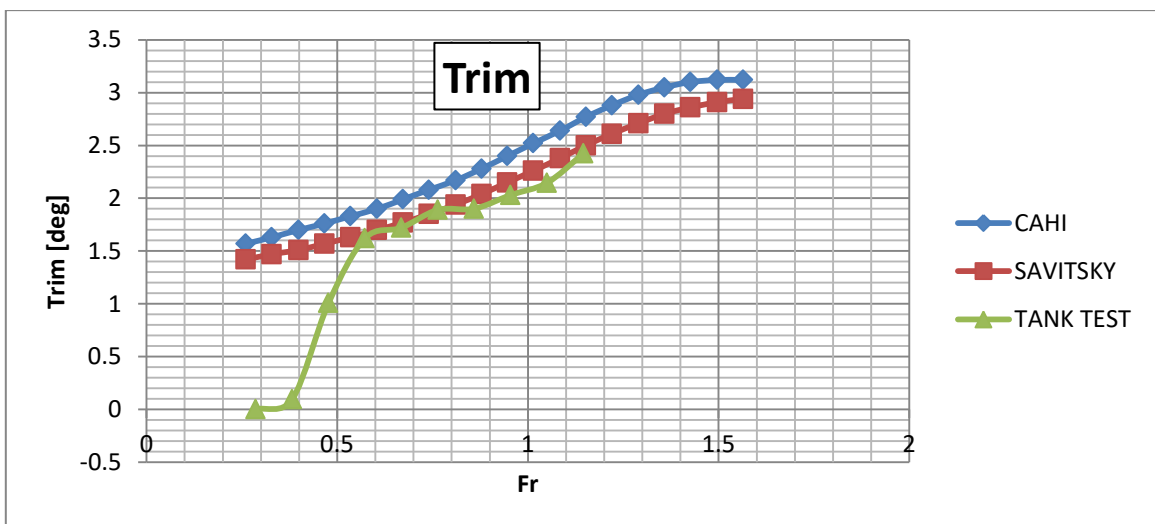
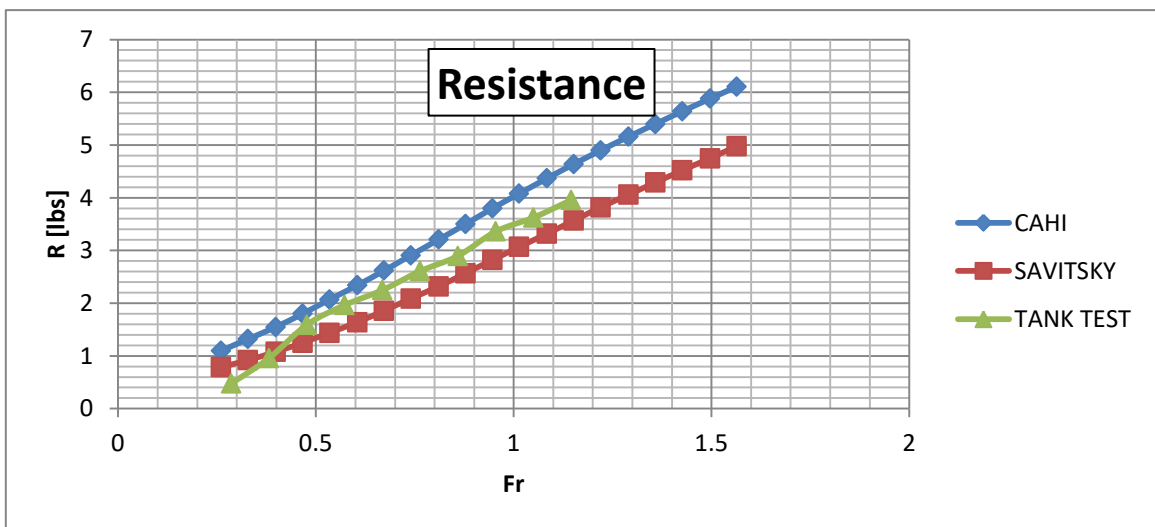
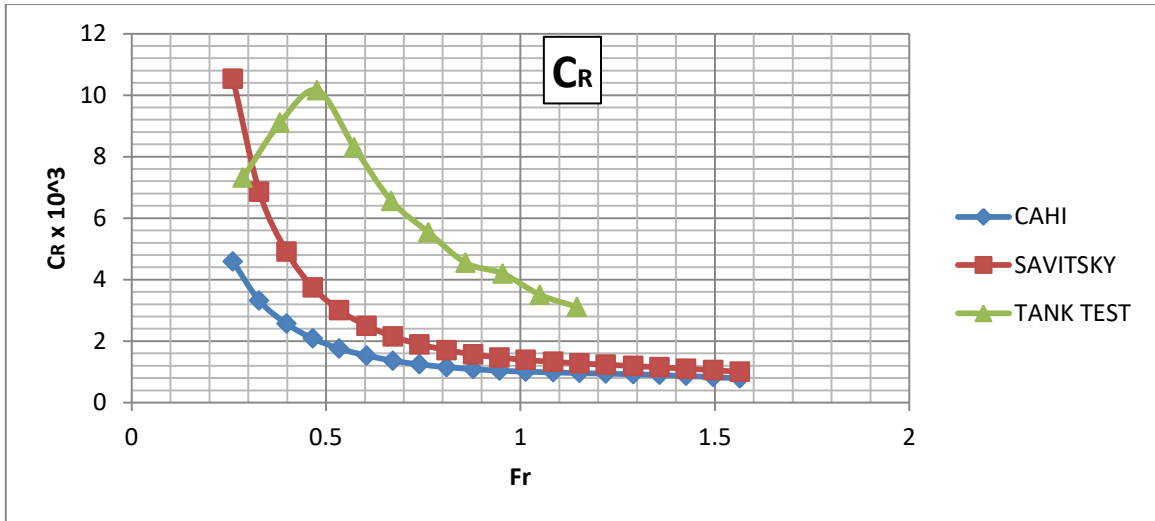
 b=25.00 deg Bc=0.21 m Disp=10.44 kp LCG=0.63 m

| ~CAHI~ | | | | | | | ~SAVITSKY~ | | | | | |
|--------|-------|-------|------|-----------------|-----------------|-------|------------|-------|------|-----------------|-----------------|-------|
| Vs | Lamda | Trim | D/W | Cr | Ct | R | Lamda | Trim | D/W | Cr | Ct | R |
| [m/s] | - | [deg] | [%] | 10 ³ | 10 ³ | [lbs] | - | [deg] | [%] | 10 ³ | 10 ³ | [lbs] |
| 1.00 | 21.04 | 1.92 | 0.05 | 6.500 | 10.002 | 1.19 | 8.72 | 1.76 | 0.04 | 14.298 | 18.459 | 0.91 |
| 1.26 | 19.04 | 2.00 | 0.06 | 4.681 | 8.097 | 1.39 | 8.63 | 1.81 | 0.05 | 9.355 | 13.333 | 1.04 |
| 1.53 | 17.51 | 2.08 | 0.07 | 3.621 | 6.972 | 1.61 | 8.52 | 1.88 | 0.05 | 6.728 | 10.569 | 1.19 |
| 1.79 | 16.26 | 2.16 | 0.08 | 2.950 | 6.248 | 1.84 | 8.39 | 1.96 | 0.06 | 5.170 | 8.905 | 1.35 |
| 2.05 | 15.20 | 2.25 | 0.09 | 2.499 | 5.756 | 2.08 | 8.24 | 2.04 | 0.07 | 4.176 | 7.826 | 1.54 |
| 2.32 | 14.27 | 2.35 | 0.10 | 2.186 | 5.410 | 2.34 | 8.06 | 2.13 | 0.08 | 3.509 | 7.091 | 1.73 |
| 2.58 | 13.42 | 2.46 | 0.11 | 1.964 | 5.161 | 2.60 | 7.87 | 2.24 | 0.08 | 3.045 | 6.571 | 1.94 |
| 2.84 | 12.64 | 2.58 | 0.12 | 1.805 | 4.981 | 2.87 | 7.66 | 2.36 | 0.09 | 2.715 | 6.195 | 2.17 |
| 3.11 | 11.91 | 2.72 | 0.14 | 1.691 | 4.851 | 3.14 | 7.43 | 2.49 | 0.10 | 2.476 | 5.919 | 2.39 |
| 3.37 | 11.22 | 2.86 | 0.15 | 1.611 | 4.759 | 3.41 | 7.18 | 2.63 | 0.11 | 2.301 | 5.714 | 2.63 |
| 3.63 | 10.56 | 3.02 | 0.16 | 1.555 | 4.695 | 3.68 | 6.93 | 2.78 | 0.12 | 2.171 | 5.560 | 2.86 |
| 3.89 | 9.94 | 3.18 | 0.17 | 1.514 | 4.649 | 3.94 | 6.67 | 2.93 | 0.13 | 2.071 | 5.440 | 3.10 |
| 4.16 | 9.37 | 3.33 | 0.18 | 1.481 | 4.613 | 4.19 | 6.41 | 3.08 | 0.14 | 1.989 | 5.342 | 3.33 |
| 4.42 | 8.84 | 3.47 | 0.19 | 1.448 | 4.579 | 4.43 | 6.16 | 3.22 | 0.15 | 1.914 | 5.254 | 3.56 |
| 4.68 | 8.36 | 3.58 | 0.20 | 1.409 | 4.539 | 4.66 | 5.93 | 3.33 | 0.16 | 1.839 | 5.168 | 3.78 |
| 4.95 | 7.94 | 3.66 | 0.21 | 1.361 | 4.489 | 4.88 | 5.71 | 3.43 | 0.17 | 1.760 | 5.078 | 3.99 |
| 5.21 | 7.58 | 3.70 | 0.22 | 1.302 | 4.428 | 5.09 | 5.52 | 3.49 | 0.18 | 1.674 | 4.982 | 4.19 |
| 5.47 | 7.26 | 3.70 | 0.23 | 1.234 | 4.356 | 5.29 | 5.35 | 3.53 | 0.19 | 1.582 | 4.879 | 4.39 |
| 5.74 | 6.98 | 3.68 | 0.24 | 1.160 | 4.278 | 5.49 | 5.20 | 3.54 | 0.20 | 1.486 | 4.772 | 4.59 |
| 6.00 | 6.74 | 3.63 | 0.25 | 1.083 | 4.196 | 5.69 | 5.08 | 3.53 | 0.21 | 1.389 | 4.662 | 4.78 |



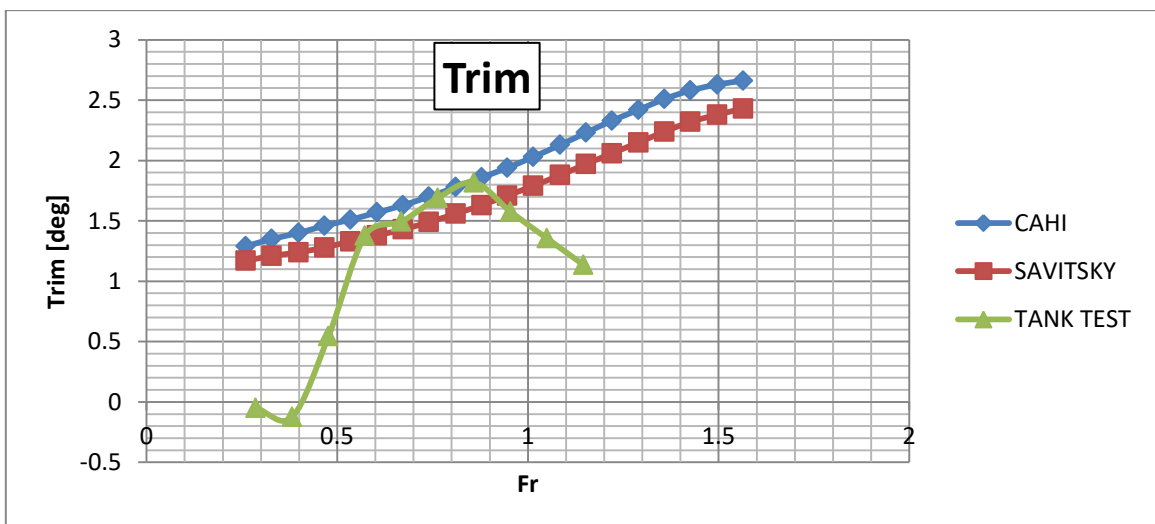
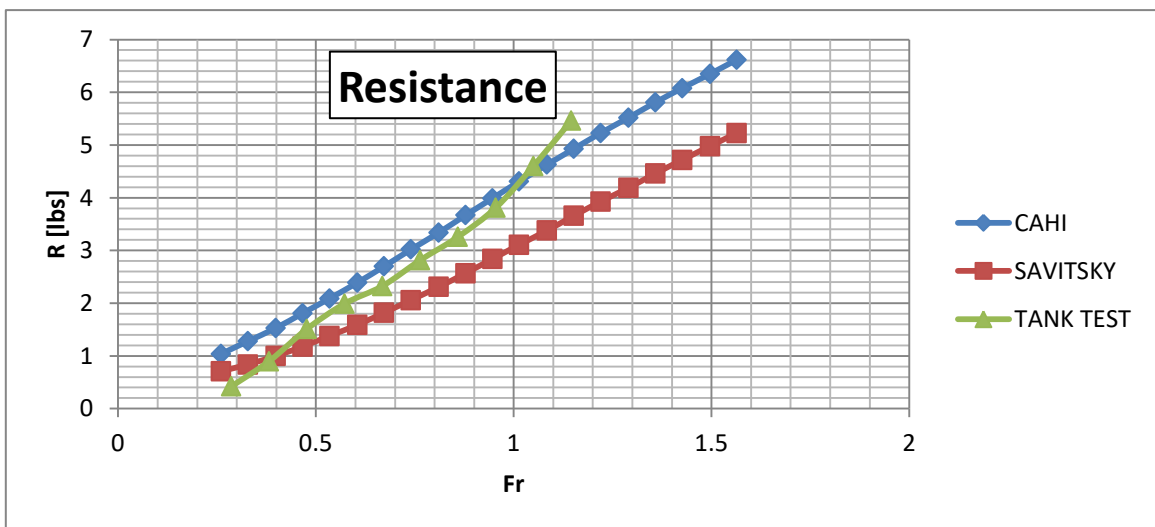
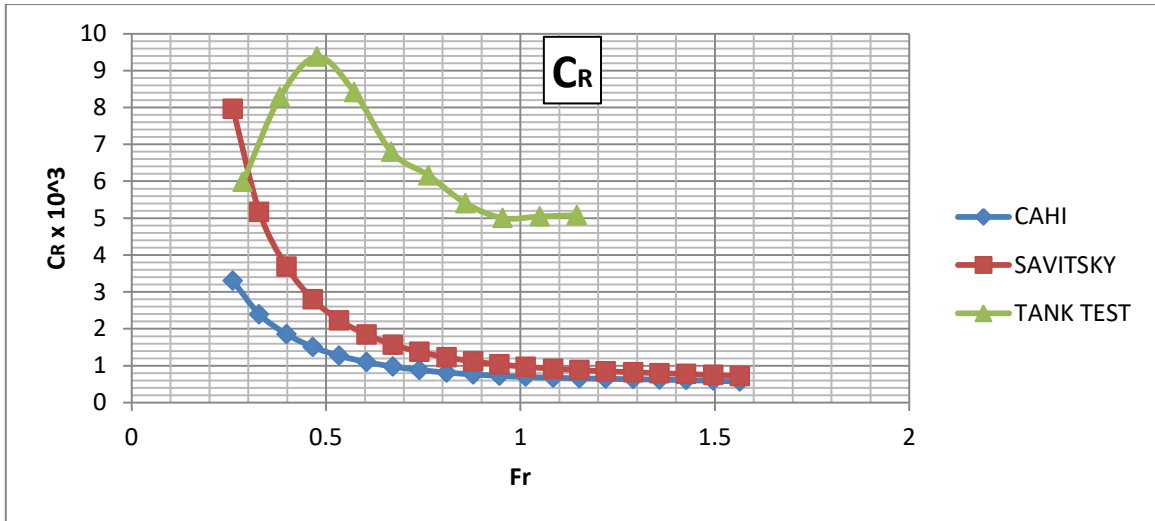
b=25.00 deg Bc=0.21 m Disp=10.44 kp LCG=0.69 m

| ~CAHI~ | | | | | | | ~SAVITSKY~ | | | | | |
|-------------|------------|---------------|------------|-----------------------|-----------------------|------------|------------|---------------|------------|-----------------------|-----------------------|------------|
| Vs [m/s] | Lamda - | Trim [deg] | D/W [%] | Cr 10 ³ | Ct 10 ³ | R [lbs] | Lamda - | Trim [deg] | D/W [%] | Cr 10 ³ | Ct 10 ³ | R [lbs] |
| 1.00 | 24.28 | 1.57 | 0.05 | 4.585 | 7.994 | 1.10 | 9.57 | 1.42 | 0.03 | 10.527 | 14.609 | 0.79 |
| 1.26 | 21.96 | 1.63 | 0.06 | 3.311 | 6.638 | 1.32 | 9.49 | 1.47 | 0.04 | 6.857 | 10.760 | 0.92 |
| 1.53 | 20.20 | 1.70 | 0.07 | 2.561 | 5.825 | 1.55 | 9.39 | 1.51 | 0.05 | 4.904 | 8.672 | 1.08 |
| 1.79 | 18.78 | 1.76 | 0.08 | 2.082 | 5.295 | 1.80 | 9.28 | 1.57 | 0.05 | 3.743 | 7.406 | 1.25 |
| 2.05 | 17.58 | 1.83 | 0.09 | 1.757 | 4.929 | 2.07 | 9.14 | 1.63 | 0.06 | 3.000 | 6.578 | 1.44 |
| 2.32 | 16.54 | 1.90 | 0.10 | 1.528 | 4.667 | 2.34 | 8.98 | 1.70 | 0.07 | 2.498 | 6.008 | 1.64 |
| 2.58 | 15.60 | 1.99 | 0.11 | 1.363 | 4.475 | 2.62 | 8.80 | 1.77 | 0.08 | 2.146 | 5.599 | 1.86 |
| 2.84 | 14.74 | 2.08 | 0.13 | 1.242 | 4.332 | 2.91 | 8.61 | 1.85 | 0.09 | 1.893 | 5.298 | 2.09 |
| 3.11 | 13.94 | 2.17 | 0.14 | 1.153 | 4.225 | 3.21 | 8.39 | 1.94 | 0.10 | 1.707 | 5.072 | 2.32 |
| 3.37 | 13.19 | 2.28 | 0.15 | 1.087 | 4.146 | 3.50 | 8.16 | 2.04 | 0.11 | 1.568 | 4.901 | 2.57 |
| 3.63 | 12.48 | 2.40 | 0.16 | 1.040 | 4.088 | 3.80 | 7.92 | 2.15 | 0.12 | 1.465 | 4.770 | 2.82 |
| 3.89 | 11.80 | 2.52 | 0.18 | 1.006 | 4.047 | 4.08 | 7.67 | 2.26 | 0.13 | 1.386 | 4.669 | 3.07 |
| 4.16 | 11.16 | 2.64 | 0.19 | 0.981 | 4.017 | 4.37 | 7.41 | 2.38 | 0.14 | 1.325 | 4.590 | 3.32 |
| 4.42 | 10.56 | 2.77 | 0.20 | 0.961 | 3.994 | 4.64 | 7.15 | 2.50 | 0.16 | 1.275 | 4.525 | 3.57 |
| 4.68 | 10.00 | 2.88 | 0.21 | 0.942 | 3.973 | 4.90 | 6.89 | 2.61 | 0.17 | 1.232 | 4.469 | 3.82 |
| 4.95 | 9.49 | 2.98 | 0.22 | 0.921 | 3.951 | 5.16 | 6.65 | 2.71 | 0.18 | 1.190 | 4.417 | 4.06 |
| 5.21 | 9.03 | 3.05 | 0.23 | 0.895 | 3.925 | 5.40 | 6.42 | 2.80 | 0.19 | 1.147 | 4.364 | 4.29 |
| 5.47 | 8.62 | 3.10 | 0.25 | 0.864 | 3.892 | 5.64 | 6.21 | 2.86 | 0.20 | 1.102 | 4.309 | 4.52 |
| 5.74 | 8.26 | 3.12 | 0.26 | 0.828 | 3.853 | 5.88 | 6.03 | 2.91 | 0.21 | 1.053 | 4.251 | 4.75 |
| 6.00 | 7.95 | 3.12 | 0.27 | 0.787 | 3.810 | 6.11 | 5.86 | 2.94 | 0.22 | 1.000 | 4.189 | 4.98 |



b=25.00 deg Bc=0.21 m Disp=10.44 kp LCG=0.75 m

| ~CAHI~ | | | | | | | ~SAVITSKY~ | | | | | |
|-------------|------------|---------------|------------|-----------------------|-----------------------|------------|------------|---------------|------------|-----------------------|-----------------------|------------|
| Vs [m/s] | Lamda - | Trim [deg] | D/W [%] | Cr 10 ³ | Ct 10 ³ | R [lbs] | Lamda - | Trim [deg] | D/W [%] | Cr 10 ³ | Ct 10 ³ | R [lbs] |
| 1.00 | 27.70 | 1.29 | 0.05 | 3.298 | 6.625 | 1.04 | 10.43 | 1.17 | 0.03 | 7.962 | 11.974 | 0.71 |
| 1.26 | 25.04 | 1.35 | 0.06 | 2.392 | 5.640 | 1.28 | 10.36 | 1.21 | 0.04 | 5.169 | 9.005 | 0.84 |
| 1.53 | 23.04 | 1.40 | 0.07 | 1.854 | 5.041 | 1.53 | 10.26 | 1.24 | 0.04 | 3.681 | 7.384 | 1.00 |
| 1.79 | 21.43 | 1.46 | 0.08 | 1.506 | 4.644 | 1.81 | 10.15 | 1.28 | 0.05 | 2.796 | 6.395 | 1.18 |
| 2.05 | 20.09 | 1.51 | 0.09 | 1.268 | 4.366 | 2.09 | 10.03 | 1.33 | 0.06 | 2.227 | 5.743 | 1.38 |
| 2.32 | 18.92 | 1.57 | 0.10 | 1.099 | 4.165 | 2.39 | 9.88 | 1.38 | 0.07 | 1.842 | 5.288 | 1.59 |
| 2.58 | 17.89 | 1.63 | 0.12 | 0.976 | 4.014 | 2.70 | 9.72 | 1.43 | 0.08 | 1.570 | 4.959 | 1.82 |
| 2.84 | 16.94 | 1.70 | 0.13 | 0.884 | 3.899 | 3.02 | 9.54 | 1.49 | 0.09 | 1.373 | 4.713 | 2.06 |
| 3.11 | 16.07 | 1.78 | 0.15 | 0.815 | 3.812 | 3.34 | 9.34 | 1.56 | 0.10 | 1.227 | 4.526 | 2.31 |
| 3.37 | 15.26 | 1.86 | 0.16 | 0.763 | 3.745 | 3.67 | 9.13 | 1.63 | 0.11 | 1.117 | 4.382 | 2.57 |
| 3.63 | 14.49 | 1.94 | 0.17 | 0.724 | 3.694 | 3.99 | 8.90 | 1.71 | 0.12 | 1.033 | 4.269 | 2.84 |
| 3.89 | 13.76 | 2.03 | 0.19 | 0.695 | 3.656 | 4.31 | 8.66 | 1.79 | 0.14 | 0.969 | 4.180 | 3.11 |
| 4.16 | 13.06 | 2.13 | 0.20 | 0.674 | 3.627 | 4.63 | 8.41 | 1.88 | 0.15 | 0.919 | 4.110 | 3.38 |
| 4.42 | 12.40 | 2.23 | 0.21 | 0.658 | 3.607 | 4.93 | 8.15 | 1.97 | 0.16 | 0.880 | 4.054 | 3.66 |
| 4.68 | 11.77 | 2.33 | 0.23 | 0.645 | 3.591 | 5.23 | 7.89 | 2.06 | 0.17 | 0.849 | 4.008 | 3.93 |
| 4.95 | 11.19 | 2.42 | 0.24 | 0.634 | 3.578 | 5.52 | 7.63 | 2.15 | 0.18 | 0.822 | 3.969 | 4.19 |
| 5.21 | 10.65 | 2.51 | 0.25 | 0.622 | 3.565 | 5.81 | 7.38 | 2.24 | 0.19 | 0.797 | 3.934 | 4.46 |
| 5.47 | 10.15 | 2.58 | 0.26 | 0.608 | 3.550 | 6.08 | 7.14 | 2.32 | 0.20 | 0.773 | 3.901 | 4.72 |
| 5.74 | 9.71 | 2.63 | 0.28 | 0.590 | 3.532 | 6.35 | 6.92 | 2.38 | 0.22 | 0.747 | 3.867 | 4.98 |
| 6.00 | 9.31 | 2.66 | 0.29 | 0.570 | 3.510 | 6.62 | 6.72 | 2.43 | 0.23 | 0.719 | 3.831 | 5.23 |



Simulation Info:

28/06/2019 07:51:30 pm

Input Data:

Ship Speed: from Vs1=1.00 m/s to Vs2=6.00 m/s (for 20 different Ship Speed values)

Ship Displacement: Disp=16.84 kp

Breadth at Chine: Bc=0.21 m

Deadrise Angle: b=25.00 deg

LCG: from LCG1=0.63 m to LCG2=0.75 m (for 3 different LCG values)

Fresh water properties at 17.80C:

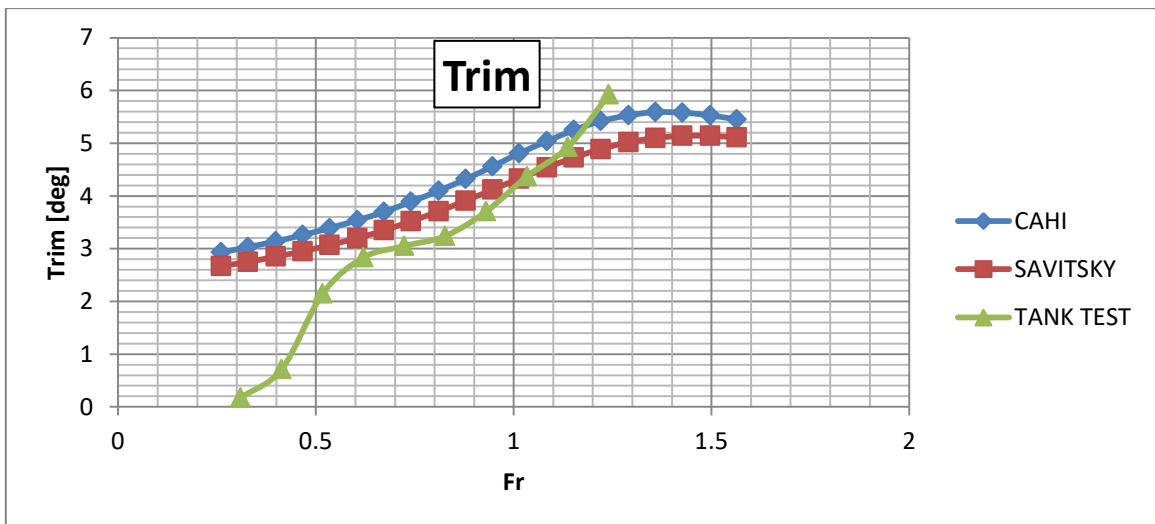
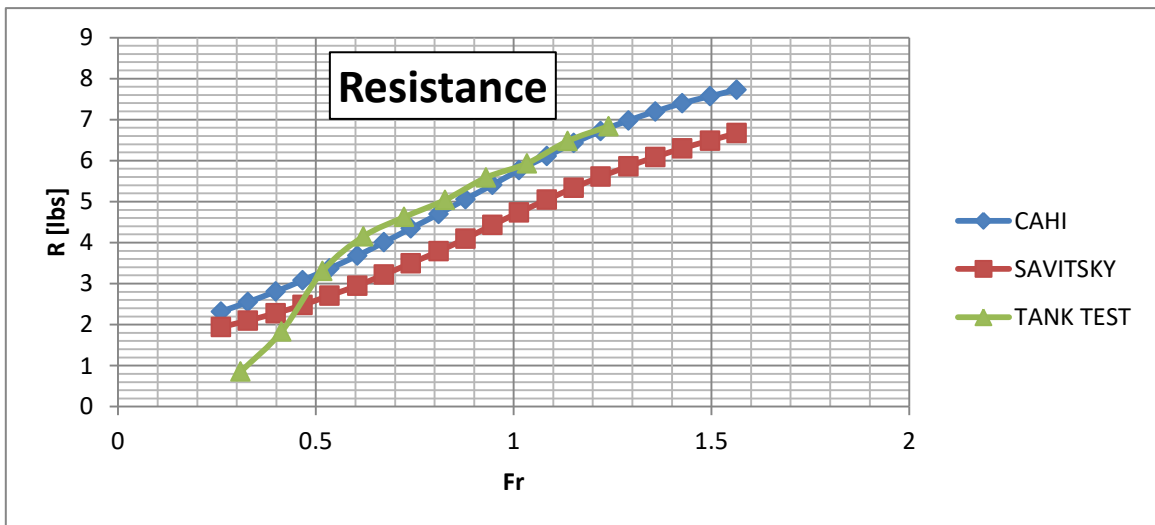
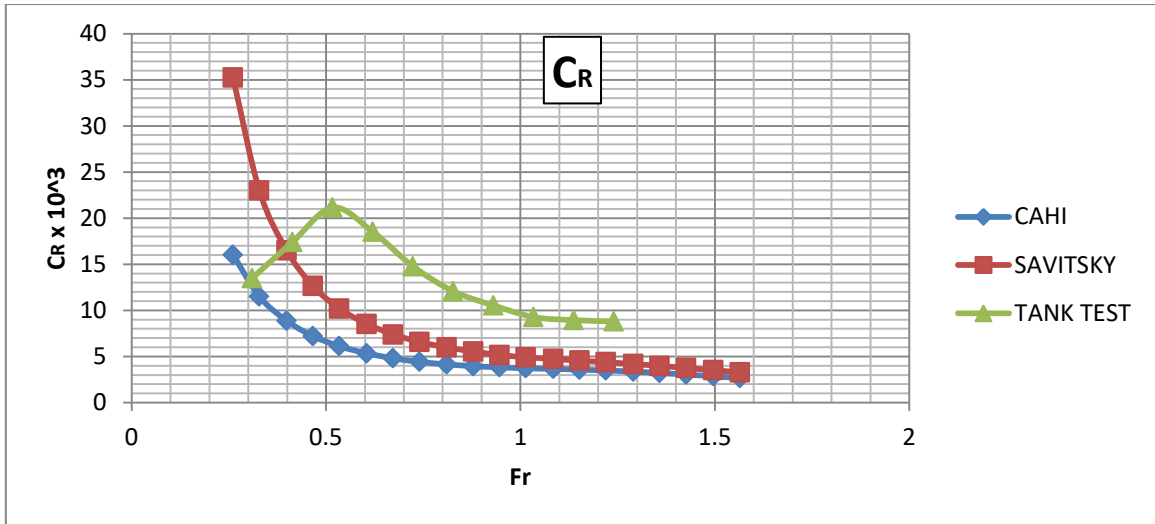
Density=998.54 kg/m³

Viscosity=1.05987*10⁻⁶ m²/s

Results:

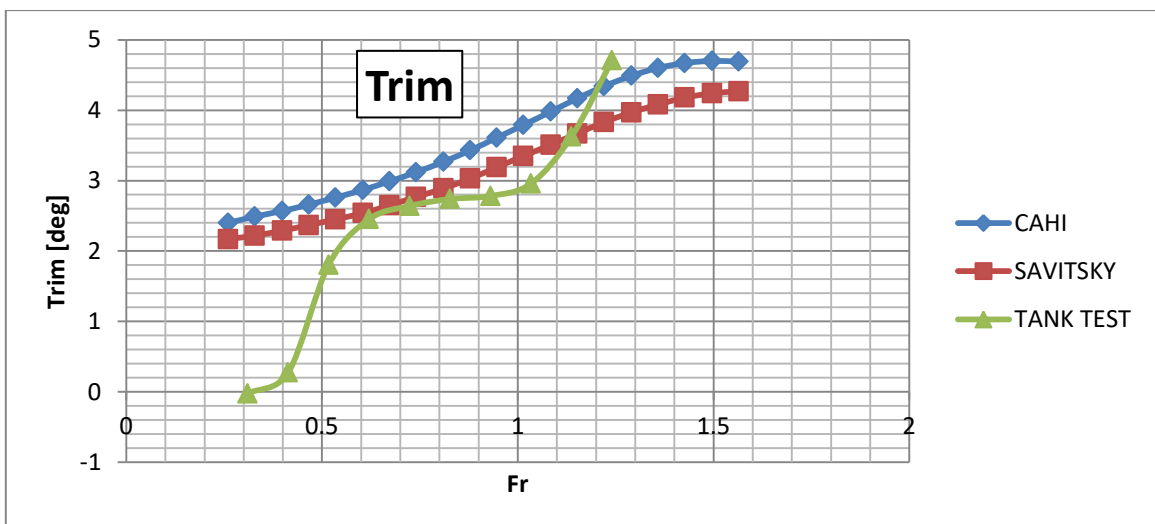
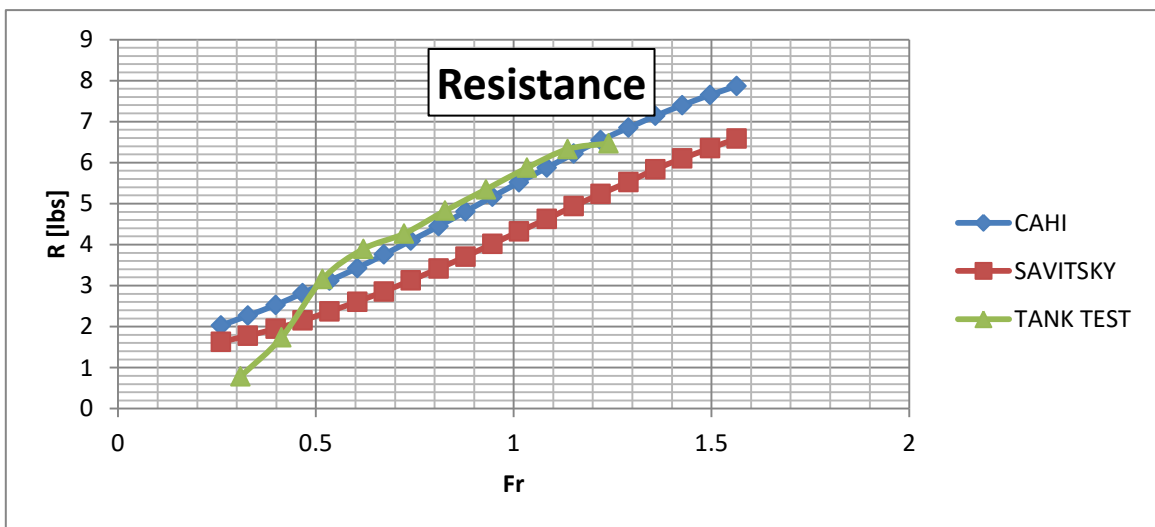
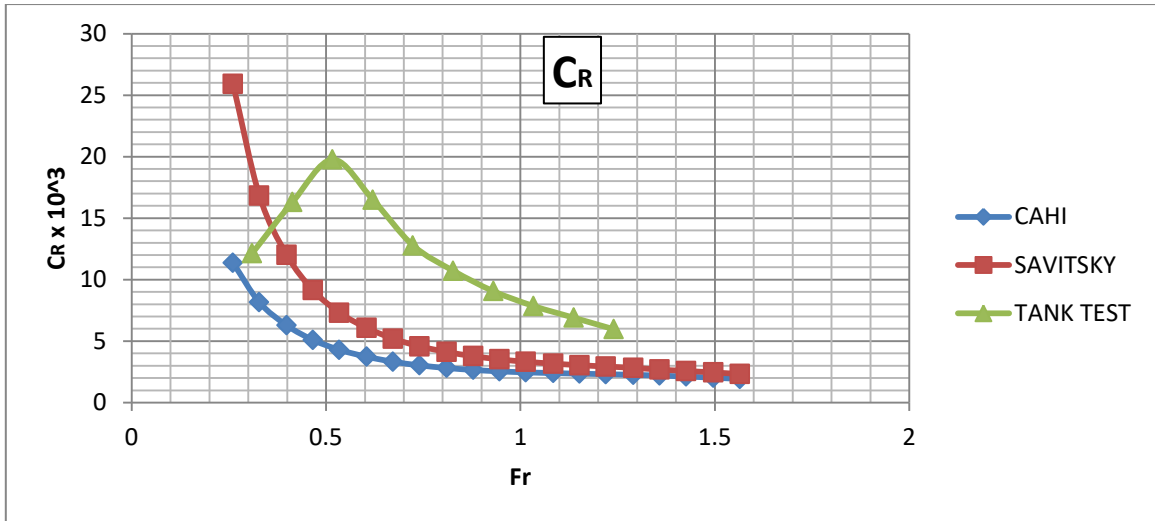
b=25.00 deg Bc=0.21 m Disp=16.84 kp LCG=0.63 m

| ~CAHI~ | | | | | | | ~SAVITSKY~ | | | | | |
|--------|-------|-------|------|-----------------|-----------------|-------|------------|-------|------|-----------------|-----------------|-------|
| Vs | Lamda | Trim | D/W | Cr | Ct | R | Lamda | Trim | D/W | Cr | Ct | R |
| [m/s] | - | [deg] | [%] | 10 ³ | 10 ³ | [lbs] | - | [deg] | [%] | 10 ³ | 10 ³ | [lbs] |
| 1.00 | 21.04 | 2.93 | 0.06 | 16.026 | 19.529 | 2.32 | 8.72 | 2.67 | 0.05 | 35.243 | 39.406 | 1.94 |
| 1.26 | 19.04 | 3.03 | 0.07 | 11.491 | 14.908 | 2.55 | 8.63 | 2.75 | 0.06 | 22.994 | 26.973 | 2.10 |
| 1.53 | 17.51 | 3.14 | 0.08 | 8.868 | 12.219 | 2.81 | 8.52 | 2.85 | 0.06 | 16.491 | 20.333 | 2.28 |
| 1.79 | 16.26 | 3.26 | 0.08 | 7.212 | 10.512 | 3.08 | 8.39 | 2.95 | 0.07 | 12.639 | 16.375 | 2.48 |
| 2.05 | 15.20 | 3.39 | 0.09 | 6.107 | 9.366 | 3.37 | 8.24 | 3.07 | 0.07 | 10.183 | 13.835 | 2.71 |
| 2.32 | 14.27 | 3.54 | 0.10 | 5.342 | 8.567 | 3.68 | 8.06 | 3.20 | 0.08 | 8.536 | 12.119 | 2.95 |
| 2.58 | 13.42 | 3.70 | 0.11 | 4.801 | 8.000 | 4.01 | 7.87 | 3.35 | 0.09 | 7.390 | 10.918 | 3.22 |
| 2.84 | 12.64 | 3.89 | 0.12 | 4.416 | 7.594 | 4.35 | 7.66 | 3.52 | 0.09 | 6.574 | 10.056 | 3.50 |
| 3.11 | 11.91 | 4.10 | 0.13 | 4.143 | 7.305 | 4.70 | 7.43 | 3.71 | 0.10 | 5.983 | 9.428 | 3.79 |
| 3.37 | 11.22 | 4.32 | 0.14 | 3.953 | 7.103 | 5.06 | 7.18 | 3.91 | 0.11 | 5.549 | 8.964 | 4.10 |
| 3.63 | 10.56 | 4.56 | 0.15 | 3.820 | 6.963 | 5.41 | 7.02 | 4.12 | 0.12 | 5.158 | 8.540 | 4.43 |
| 3.89 | 9.94 | 4.81 | 0.16 | 3.726 | 6.864 | 5.77 | 6.74 | 4.33 | 0.13 | 4.921 | 8.286 | 4.74 |
| 4.16 | 9.37 | 5.04 | 0.16 | 3.650 | 6.785 | 6.11 | 6.46 | 4.54 | 0.14 | 4.727 | 8.078 | 5.05 |
| 4.42 | 8.84 | 5.25 | 0.17 | 3.572 | 6.706 | 6.43 | 6.20 | 4.73 | 0.14 | 4.552 | 7.890 | 5.34 |
| 4.68 | 8.36 | 5.42 | 0.18 | 3.478 | 6.610 | 6.72 | 5.95 | 4.89 | 0.15 | 4.375 | 7.703 | 5.61 |
| 4.95 | 7.94 | 5.53 | 0.19 | 3.358 | 6.489 | 6.98 | 5.73 | 5.02 | 0.16 | 4.185 | 7.504 | 5.86 |
| 5.21 | 7.58 | 5.59 | 0.19 | 3.210 | 6.339 | 7.20 | 5.53 | 5.10 | 0.16 | 3.977 | 7.287 | 6.09 |
| 5.47 | 7.26 | 5.58 | 0.20 | 3.039 | 6.164 | 7.40 | 5.36 | 5.14 | 0.17 | 3.753 | 7.052 | 6.30 |
| 5.74 | 6.98 | 5.53 | 0.20 | 2.852 | 5.973 | 7.57 | 5.21 | 5.14 | 0.17 | 3.517 | 6.805 | 6.49 |
| 6.00 | 6.74 | 5.45 | 0.21 | 2.658 | 5.773 | 7.73 | 5.08 | 5.11 | 0.18 | 3.277 | 6.552 | 6.67 |



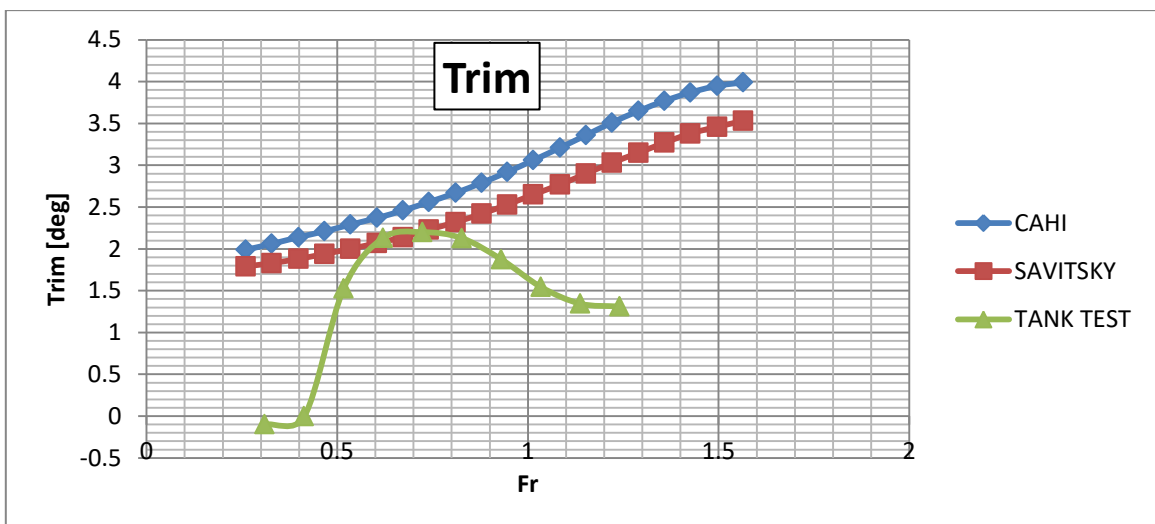
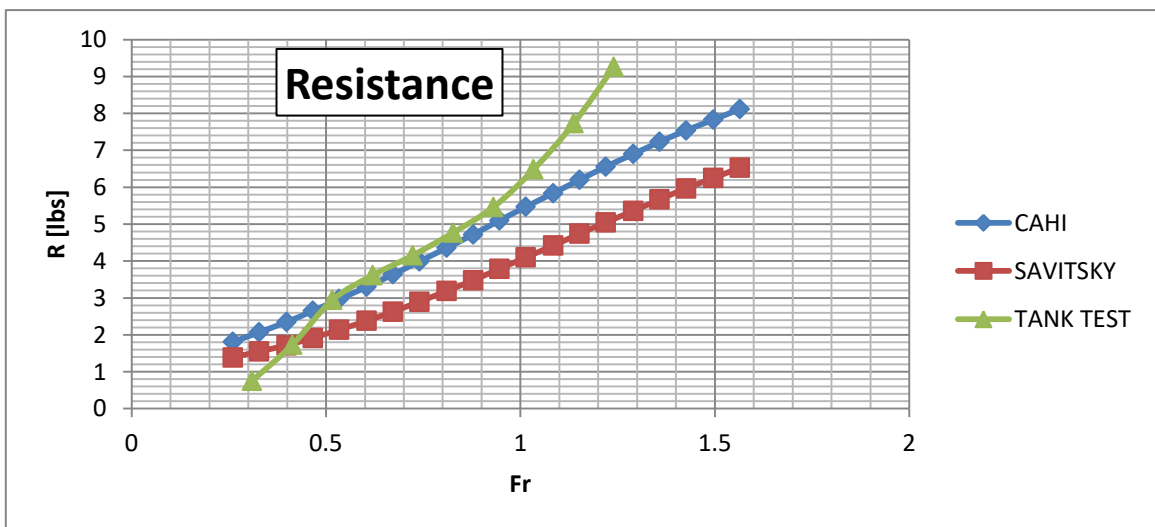
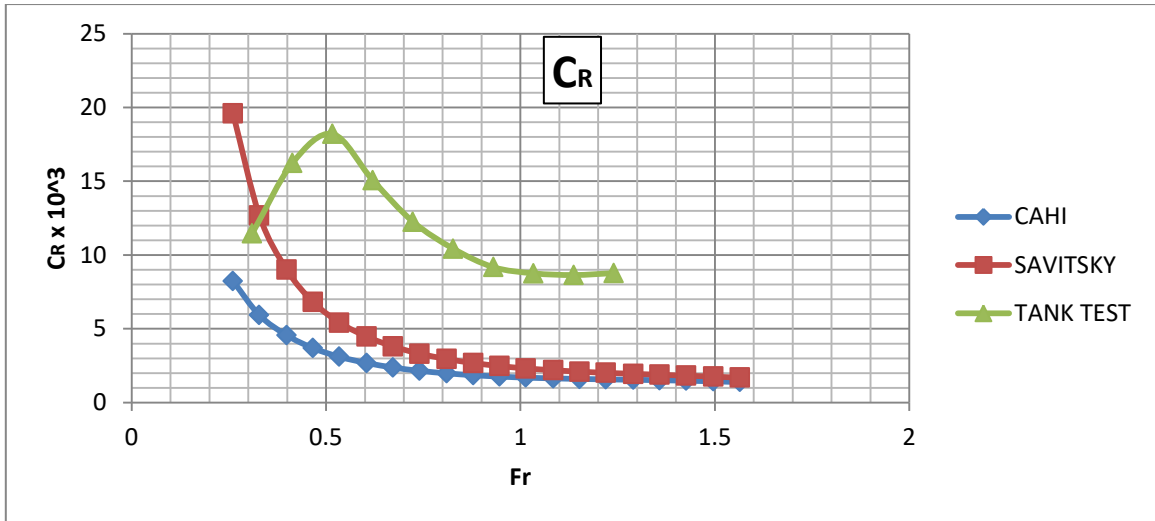
b=25.00 deg Bc=0.21 m Disp=16.84 kp LCG=0.69 m

| ~CAHI~ | | | | | | | ~SAVITSKY~ | | | | | |
|-------------|------------|---------------|------------|-----------------------|-----------------------|------------|------------|---------------|------------|-----------------------|-----------------------|------------|
| Vs [m/s] | Lamda - | Trim [deg] | D/W [%] | Cr 10 ³ | Ct 10 ³ | R [lbs] | Lamda - | Trim [deg] | D/W [%] | Cr 10 ³ | Ct 10 ³ | R [lbs] |
| 1.00 | 24.28 | 2.40 | 0.05 | 11.361 | 14.772 | 2.03 | 9.57 | 2.17 | 0.04 | 25.921 | 30.004 | 1.63 |
| 1.26 | 21.96 | 2.49 | 0.06 | 8.152 | 11.480 | 2.27 | 9.49 | 2.22 | 0.05 | 16.837 | 20.740 | 1.78 |
| 1.53 | 20.20 | 2.57 | 0.07 | 6.281 | 9.545 | 2.53 | 9.39 | 2.29 | 0.05 | 12.007 | 15.776 | 1.95 |
| 1.79 | 18.78 | 2.66 | 0.08 | 5.091 | 8.305 | 2.82 | 9.28 | 2.37 | 0.06 | 9.140 | 12.804 | 2.15 |
| 2.05 | 17.58 | 2.76 | 0.08 | 4.289 | 7.463 | 3.12 | 9.14 | 2.45 | 0.06 | 7.306 | 10.886 | 2.37 |
| 2.32 | 16.54 | 2.87 | 0.09 | 3.727 | 6.867 | 3.43 | 8.98 | 2.54 | 0.07 | 6.069 | 9.579 | 2.61 |
| 2.58 | 15.60 | 2.99 | 0.10 | 3.323 | 6.436 | 3.76 | 8.80 | 2.65 | 0.08 | 5.201 | 8.654 | 2.86 |
| 2.84 | 14.74 | 3.12 | 0.11 | 3.028 | 6.119 | 4.10 | 8.61 | 2.77 | 0.08 | 4.576 | 7.982 | 3.13 |
| 3.11 | 13.94 | 3.27 | 0.12 | 2.812 | 5.886 | 4.45 | 8.39 | 2.89 | 0.09 | 4.116 | 7.483 | 3.42 |
| 3.37 | 13.19 | 3.43 | 0.13 | 2.655 | 5.714 | 4.81 | 8.16 | 3.03 | 0.10 | 3.775 | 7.108 | 3.71 |
| 3.63 | 12.48 | 3.61 | 0.14 | 2.541 | 5.591 | 5.17 | 7.92 | 3.19 | 0.11 | 3.517 | 6.824 | 4.02 |
| 3.89 | 11.80 | 3.79 | 0.15 | 2.460 | 5.502 | 5.52 | 7.67 | 3.35 | 0.12 | 3.321 | 6.605 | 4.32 |
| 4.16 | 11.16 | 3.98 | 0.16 | 2.401 | 5.438 | 5.88 | 7.41 | 3.51 | 0.12 | 3.168 | 6.434 | 4.63 |
| 4.42 | 10.56 | 4.17 | 0.17 | 2.353 | 5.388 | 6.22 | 7.15 | 3.67 | 0.13 | 3.043 | 6.294 | 4.94 |
| 4.68 | 10.00 | 4.34 | 0.18 | 2.309 | 5.342 | 6.55 | 6.89 | 3.83 | 0.14 | 2.933 | 6.172 | 5.24 |
| 4.95 | 9.49 | 4.49 | 0.18 | 2.258 | 5.290 | 6.85 | 6.65 | 3.97 | 0.15 | 2.828 | 6.057 | 5.53 |
| 5.21 | 9.03 | 4.60 | 0.19 | 2.195 | 5.227 | 7.14 | 6.52 | 4.08 | 0.16 | 2.682 | 5.892 | 5.84 |
| 5.47 | 8.62 | 4.67 | 0.20 | 2.118 | 5.148 | 7.40 | 6.30 | 4.18 | 0.16 | 2.572 | 5.773 | 6.10 |
| 5.74 | 8.26 | 4.70 | 0.21 | 2.026 | 5.054 | 7.65 | 6.11 | 4.24 | 0.17 | 2.453 | 5.645 | 6.35 |
| 6.00 | 7.95 | 4.69 | 0.21 | 1.923 | 4.948 | 7.87 | 5.94 | 4.27 | 0.18 | 2.326 | 5.509 | 6.59 |



b=25.00 deg Bc=0.21 m Disp=16.84 kp LCG=0.75 m

| ~CAHI~ | | | | | | | ~SAVITSKY~ | | | | | |
|-------------|------------|---------------|------------|-----------------------|-----------------------|------------|------------|---------------|------------|-----------------------|-----------------------|------------|
| Vs [m/s] | Lamda - | Trim [deg] | D/W [%] | Cr 10 ³ | Ct 10 ³ | R [lbs] | Lamda - | Trim [deg] | D/W [%] | Cr 10 ³ | Ct 10 ³ | R [lbs] |
| 1.00 | 27.70 | 1.99 | 0.05 | 8.239 | 11.567 | 1.81 | 10.43 | 1.79 | 0.04 | 19.592 | 23.605 | 1.39 |
| 1.26 | 25.04 | 2.06 | 0.06 | 5.923 | 9.172 | 2.07 | 10.36 | 1.83 | 0.04 | 12.682 | 16.519 | 1.55 |
| 1.53 | 23.04 | 2.14 | 0.06 | 4.563 | 7.751 | 2.35 | 10.26 | 1.88 | 0.05 | 9.006 | 12.710 | 1.72 |
| 1.79 | 21.43 | 2.21 | 0.07 | 3.692 | 6.831 | 2.65 | 10.15 | 1.94 | 0.05 | 6.821 | 10.421 | 1.92 |
| 2.05 | 20.09 | 2.29 | 0.08 | 3.101 | 6.200 | 2.97 | 10.03 | 2.00 | 0.06 | 5.419 | 8.936 | 2.14 |
| 2.32 | 18.92 | 2.37 | 0.09 | 2.683 | 5.749 | 3.30 | 9.88 | 2.07 | 0.06 | 4.470 | 7.918 | 2.38 |
| 2.58 | 17.89 | 2.46 | 0.10 | 2.378 | 5.417 | 3.64 | 9.72 | 2.14 | 0.07 | 3.801 | 7.191 | 2.63 |
| 2.84 | 16.94 | 2.56 | 0.11 | 2.153 | 5.169 | 3.99 | 9.54 | 2.23 | 0.08 | 3.316 | 6.657 | 2.90 |
| 3.11 | 16.07 | 2.67 | 0.12 | 1.984 | 4.981 | 4.36 | 9.34 | 2.32 | 0.09 | 2.955 | 6.256 | 3.19 |
| 3.37 | 15.26 | 2.79 | 0.13 | 1.857 | 4.840 | 4.72 | 9.13 | 2.42 | 0.09 | 2.684 | 5.950 | 3.48 |
| 3.63 | 14.49 | 2.92 | 0.14 | 1.763 | 4.733 | 5.10 | 8.90 | 2.53 | 0.10 | 2.477 | 5.714 | 3.79 |
| 3.89 | 13.76 | 3.06 | 0.15 | 1.693 | 4.655 | 5.47 | 8.66 | 2.65 | 0.11 | 2.318 | 5.530 | 4.10 |
| 4.16 | 13.06 | 3.21 | 0.16 | 1.642 | 4.597 | 5.84 | 8.41 | 2.77 | 0.12 | 2.195 | 5.386 | 4.42 |
| 4.42 | 12.40 | 3.36 | 0.17 | 1.604 | 4.554 | 6.20 | 8.15 | 2.90 | 0.13 | 2.097 | 5.272 | 4.74 |
| 4.68 | 11.77 | 3.51 | 0.18 | 1.574 | 4.521 | 6.56 | 7.89 | 3.03 | 0.14 | 2.018 | 5.178 | 5.05 |
| 4.95 | 11.19 | 3.65 | 0.19 | 1.547 | 4.492 | 6.90 | 7.63 | 3.15 | 0.14 | 1.950 | 5.098 | 5.36 |
| 5.21 | 10.65 | 3.77 | 0.19 | 1.517 | 4.462 | 7.23 | 7.38 | 3.27 | 0.15 | 1.887 | 5.025 | 5.67 |
| 5.47 | 10.15 | 3.87 | 0.20 | 1.483 | 4.427 | 7.54 | 7.14 | 3.38 | 0.16 | 1.825 | 4.954 | 5.97 |
| 5.74 | 9.71 | 3.95 | 0.21 | 1.440 | 4.383 | 7.83 | 6.92 | 3.46 | 0.17 | 1.760 | 4.881 | 6.25 |
| 6.00 | 9.31 | 3.99 | 0.22 | 1.389 | 4.331 | 8.12 | 6.72 | 3.53 | 0.18 | 1.692 | 4.805 | 6.53 |



Simulation Info:

28/06/2019 08:47:56 pm

Input Data:

Ship Speed: from Vs1=1.00 m/s to Vs2=6.00 m/s (for 20 different Ship Speed values)

Ship Displacement: Disp=12.16 kp

Breadth at Chine: Bc=0.37 m

Deadrise Angle: b=30.00 deg

LCG: from LCG1=0.63 m to LCG2=0.75 m (for 3 different LCG values)

Fresh water properties at 17.50C:

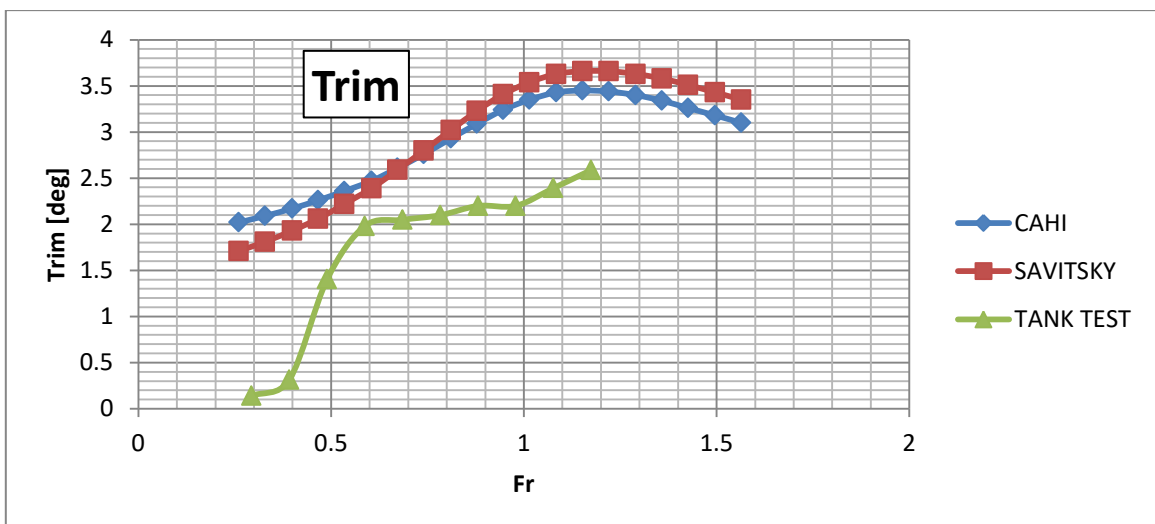
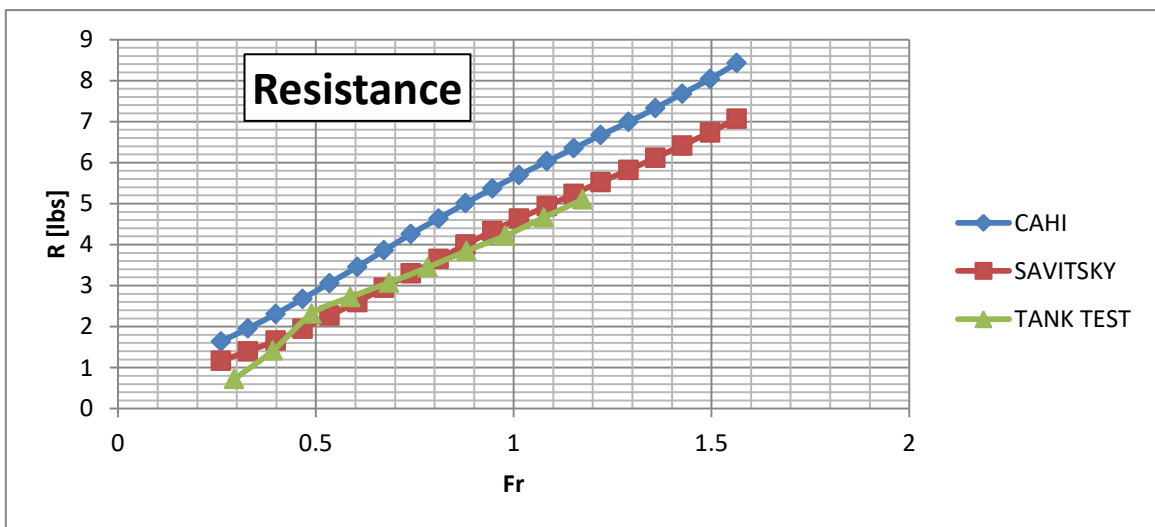
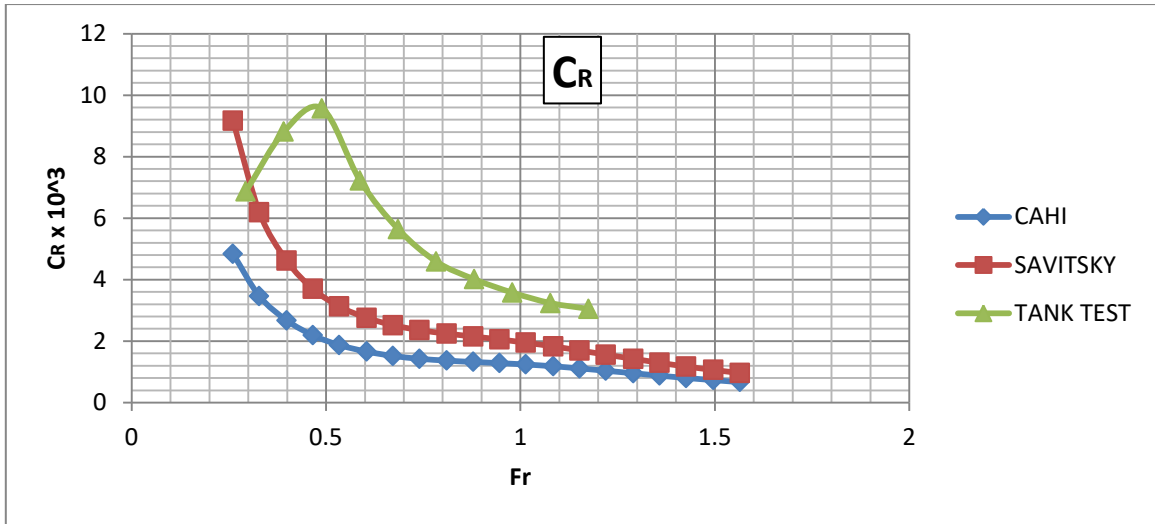
Density=998.60 kg/m³

Viscosity=1.06792*10⁻⁶ m²/s

Results:

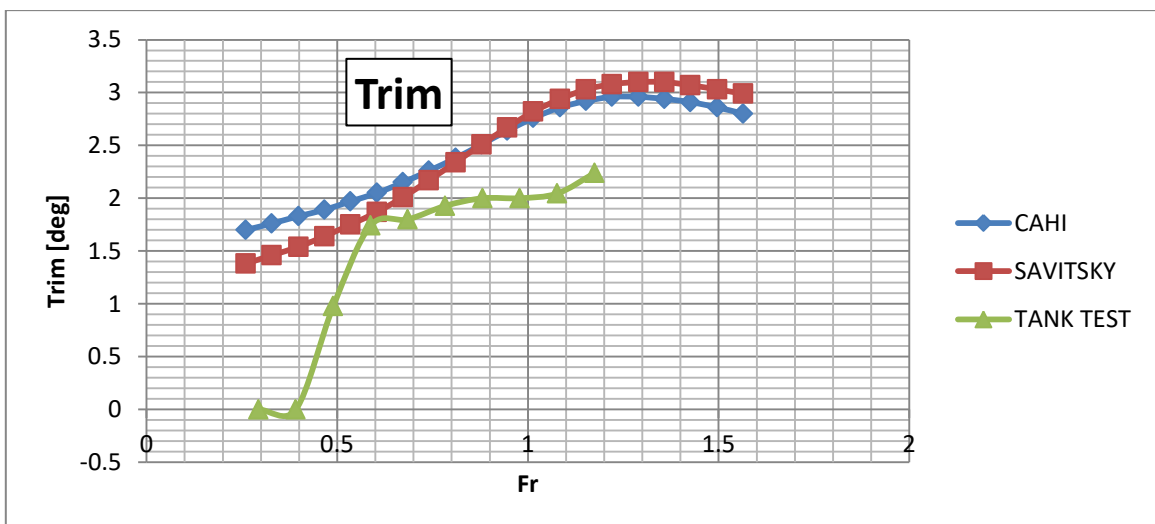
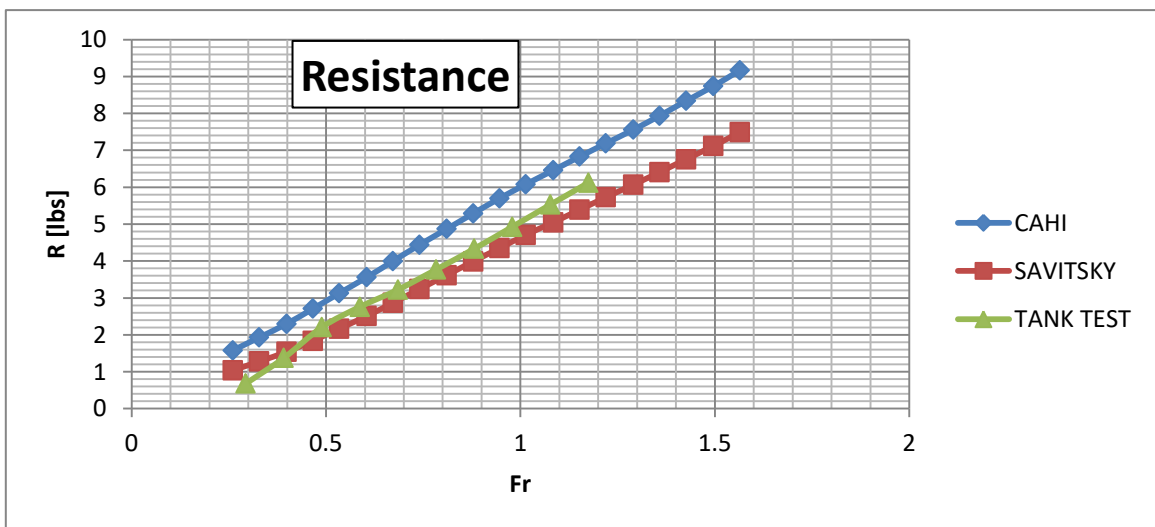
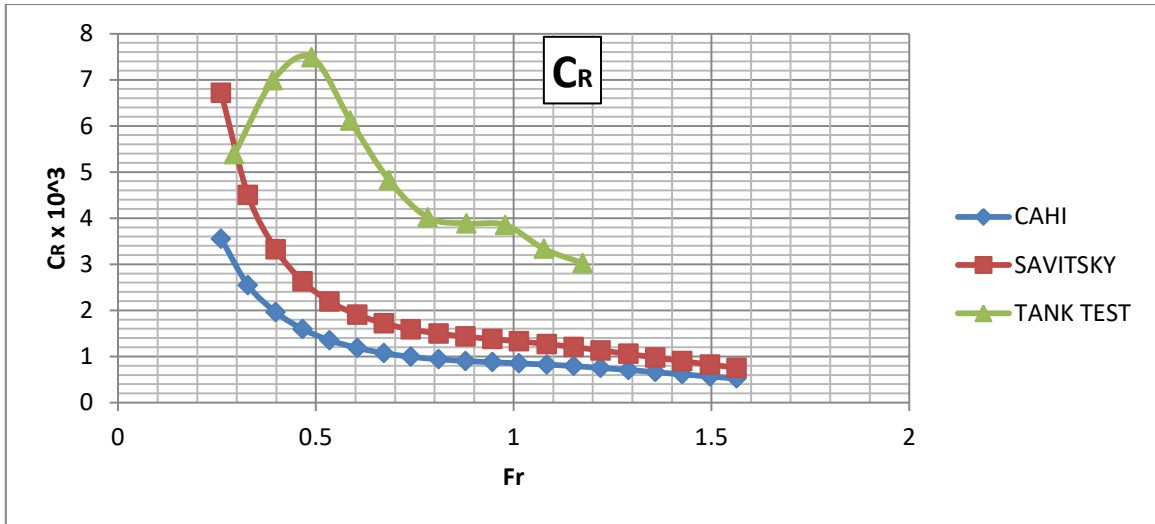
b=30.00 deg Bc=0.37 m Disp=12.16 kp LCG=0.63 m

| ~CAHI~ | | | | | | | ~SAVITSKY~ | | | | | |
|--------|-------|-------|------|-----------------|-----------------|-------|------------|-------|------|-----------------|-----------------|-------|
| Vs | Lamda | Trim | D/W | Cr | Ct | R | Lamda | Trim | D/W | Cr | Ct | R |
| [m/s] | - | [deg] | [%] | 10 ³ | 10 ³ | [lbs] | - | [deg] | [%] | 10 ³ | 10 ³ | [lbs] |
| 1.00 | 11.30 | 2.02 | 0.06 | 4.838 | 8.402 | 1.64 | 5.03 | 1.71 | 0.04 | 9.166 | 13.344 | 1.17 |
| 1.26 | 10.24 | 2.09 | 0.07 | 3.462 | 6.936 | 1.96 | 4.94 | 1.81 | 0.05 | 6.192 | 10.192 | 1.40 |
| 1.53 | 9.42 | 2.17 | 0.09 | 2.675 | 6.082 | 2.31 | 4.83 | 1.93 | 0.06 | 4.618 | 8.487 | 1.66 |
| 1.79 | 8.72 | 2.26 | 0.10 | 2.187 | 5.543 | 2.68 | 4.70 | 2.06 | 0.07 | 3.697 | 7.468 | 1.95 |
| 2.05 | 8.11 | 2.36 | 0.11 | 1.870 | 5.186 | 3.06 | 4.55 | 2.22 | 0.08 | 3.124 | 6.820 | 2.27 |
| 2.32 | 7.55 | 2.47 | 0.13 | 1.658 | 4.946 | 3.46 | 4.38 | 2.39 | 0.10 | 2.757 | 6.395 | 2.60 |
| 2.58 | 7.03 | 2.61 | 0.14 | 1.517 | 4.783 | 3.86 | 4.19 | 2.59 | 0.11 | 2.517 | 6.111 | 2.95 |
| 2.84 | 6.54 | 2.76 | 0.16 | 1.425 | 4.677 | 4.26 | 4.00 | 2.80 | 0.12 | 2.357 | 5.918 | 3.30 |
| 3.11 | 6.07 | 2.93 | 0.17 | 1.365 | 4.608 | 4.64 | 3.80 | 3.02 | 0.14 | 2.244 | 5.779 | 3.65 |
| 3.37 | 5.64 | 3.09 | 0.19 | 1.322 | 4.562 | 5.01 | 3.61 | 3.23 | 0.15 | 2.149 | 5.666 | 4.00 |
| 3.63 | 5.25 | 3.24 | 0.20 | 1.284 | 4.522 | 5.37 | 3.43 | 3.41 | 0.16 | 2.055 | 5.556 | 4.33 |
| 3.89 | 4.91 | 3.35 | 0.21 | 1.239 | 4.476 | 5.70 | 3.27 | 3.54 | 0.17 | 1.948 | 5.434 | 4.64 |
| 4.16 | 4.62 | 3.43 | 0.22 | 1.181 | 4.417 | 6.03 | 3.14 | 3.63 | 0.18 | 1.827 | 5.298 | 4.94 |
| 4.42 | 4.37 | 3.45 | 0.24 | 1.112 | 4.343 | 6.35 | 3.03 | 3.66 | 0.20 | 1.695 | 5.150 | 5.24 |
| 4.68 | 4.17 | 3.44 | 0.25 | 1.035 | 4.260 | 6.67 | 2.93 | 3.66 | 0.21 | 1.559 | 4.997 | 5.53 |
| 4.95 | 4.01 | 3.40 | 0.26 | 0.955 | 4.172 | 6.99 | 2.86 | 3.63 | 0.22 | 1.424 | 4.844 | 5.82 |
| 5.21 | 3.87 | 3.34 | 0.27 | 0.876 | 4.084 | 7.33 | 2.79 | 3.58 | 0.23 | 1.294 | 4.696 | 6.12 |
| 5.47 | 3.75 | 3.26 | 0.29 | 0.801 | 3.998 | 7.68 | 2.74 | 3.51 | 0.24 | 1.173 | 4.557 | 6.42 |
| 5.74 | 3.65 | 3.18 | 0.30 | 0.731 | 3.916 | 8.04 | 2.69 | 3.43 | 0.25 | 1.062 | 4.427 | 6.74 |
| 6.00 | 3.56 | 3.10 | 0.31 | 0.666 | 3.840 | 8.43 | 2.65 | 3.35 | 0.26 | 0.961 | 4.307 | 7.07 |



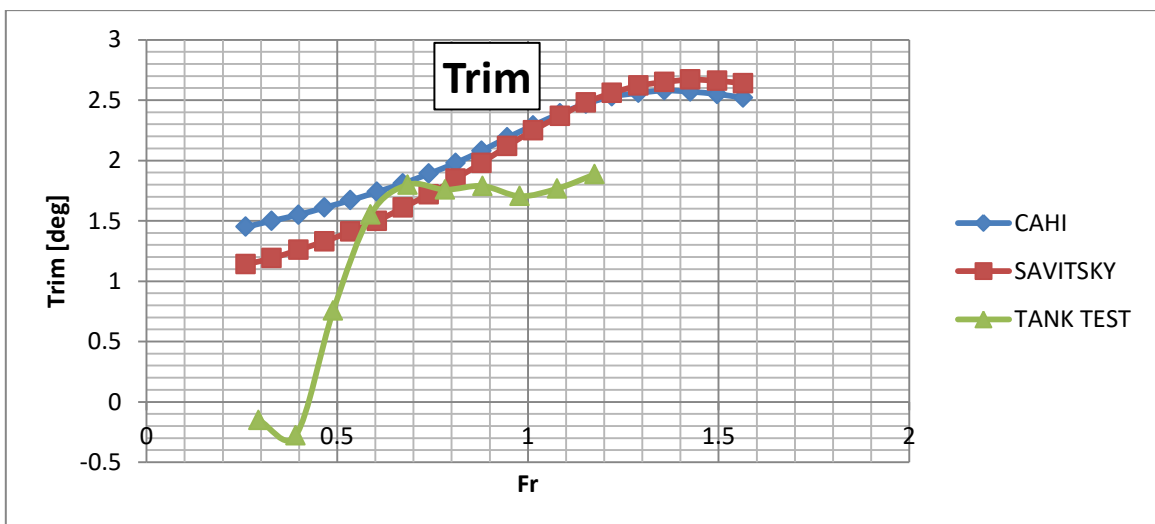
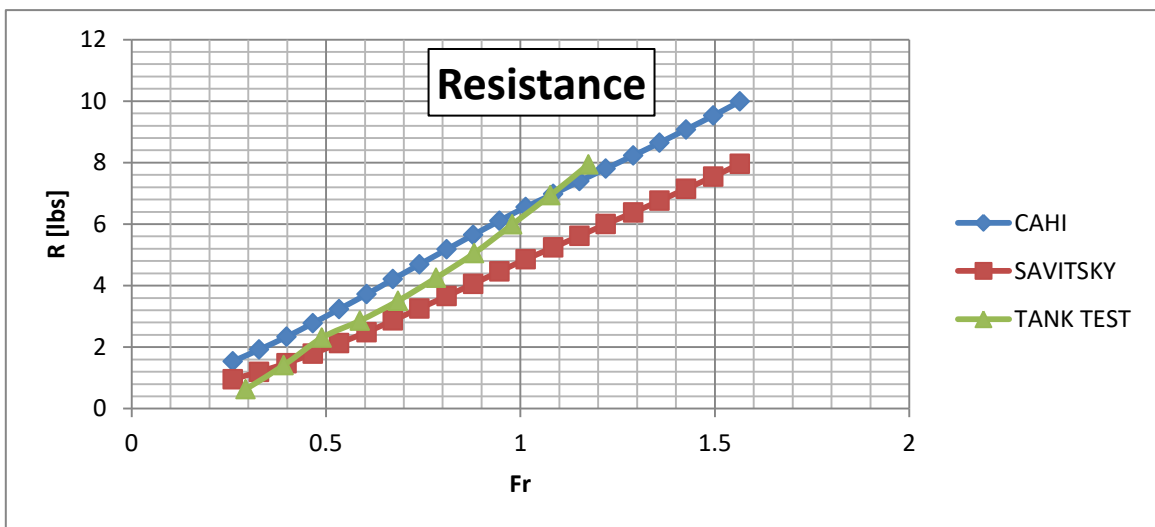
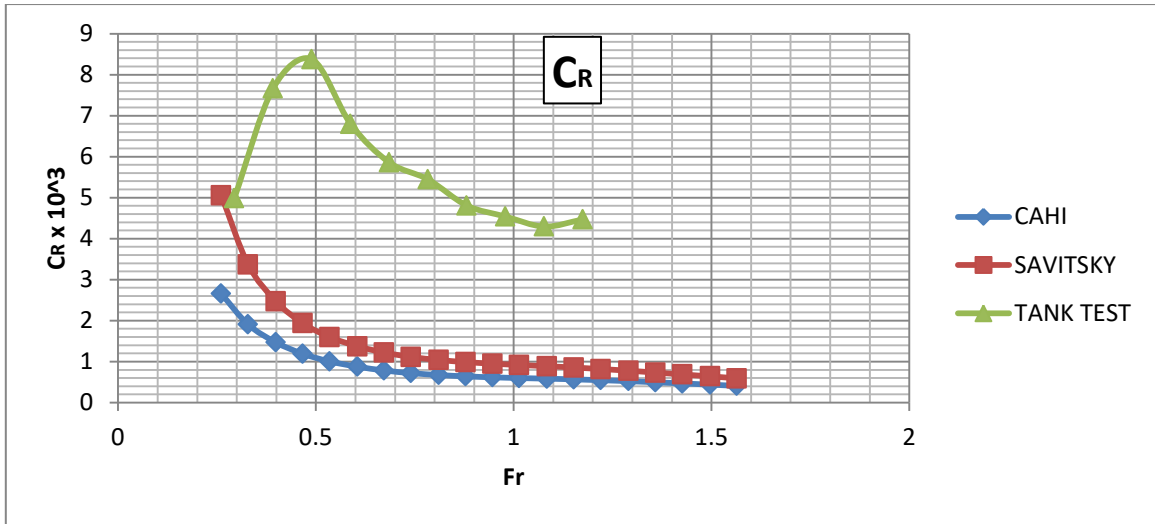
b=30.00 deg Bc=0.37 m Disp=12.16 kp LCG=0.69 m

| ~CAHI~ | | | | | | | ~SAVITSKY~ | | | | | |
|-------------|------------|---------------|------------|-----------------------|-----------------------|------------|------------|---------------|------------|-----------------------|-----------------------|------------|
| Vs [m/s] | Lamda - | Trim [deg] | D/W [%] | Cr 10 ³ | Ct 10 ³ | R [lbs] | Lamda - | Trim [deg] | D/W [%] | Cr 10 ³ | Ct 10 ³ | R [lbs] |
| 1.00 | 12.94 | 1.70 | 0.06 | 3.551 | 7.025 | 1.58 | 5.54 | 1.38 | 0.04 | 6.713 | 10.810 | 1.04 |
| 1.26 | 11.74 | 1.76 | 0.07 | 2.543 | 5.930 | 1.93 | 5.46 | 1.46 | 0.05 | 4.500 | 8.421 | 1.28 |
| 1.53 | 10.80 | 1.83 | 0.09 | 1.960 | 5.281 | 2.30 | 5.36 | 1.54 | 0.06 | 3.324 | 7.115 | 1.54 |
| 1.79 | 10.03 | 1.89 | 0.10 | 1.594 | 4.865 | 2.71 | 5.24 | 1.64 | 0.07 | 2.630 | 6.322 | 1.84 |
| 2.05 | 9.36 | 1.97 | 0.12 | 1.351 | 4.583 | 3.13 | 5.10 | 1.75 | 0.08 | 2.193 | 5.808 | 2.17 |
| 2.32 | 8.75 | 2.05 | 0.13 | 1.186 | 4.386 | 3.56 | 4.94 | 1.87 | 0.09 | 1.906 | 5.461 | 2.51 |
| 2.58 | 8.19 | 2.15 | 0.15 | 1.072 | 4.249 | 4.00 | 4.77 | 2.01 | 0.11 | 1.715 | 5.222 | 2.87 |
| 2.84 | 7.66 | 2.26 | 0.17 | 0.993 | 4.153 | 4.44 | 4.58 | 2.17 | 0.12 | 1.585 | 5.055 | 3.24 |
| 3.11 | 7.16 | 2.38 | 0.18 | 0.939 | 4.087 | 4.87 | 4.38 | 2.34 | 0.13 | 1.496 | 4.937 | 3.62 |
| 3.37 | 6.69 | 2.51 | 0.20 | 0.902 | 4.043 | 5.29 | 4.19 | 2.51 | 0.15 | 1.431 | 4.850 | 3.99 |
| 3.63 | 6.25 | 2.64 | 0.21 | 0.875 | 4.013 | 5.70 | 3.99 | 2.67 | 0.16 | 1.378 | 4.780 | 4.35 |
| 3.89 | 5.84 | 2.76 | 0.23 | 0.851 | 3.987 | 6.08 | 3.81 | 2.82 | 0.18 | 1.326 | 4.714 | 4.71 |
| 4.16 | 5.49 | 2.86 | 0.24 | 0.824 | 3.959 | 6.46 | 3.65 | 2.94 | 0.19 | 1.269 | 4.643 | 5.05 |
| 4.42 | 5.18 | 2.92 | 0.25 | 0.791 | 3.924 | 6.83 | 3.50 | 3.03 | 0.20 | 1.204 | 4.565 | 5.39 |
| 4.68 | 4.92 | 2.96 | 0.27 | 0.751 | 3.882 | 7.19 | 3.38 | 3.08 | 0.21 | 1.131 | 4.479 | 5.73 |
| 4.95 | 4.70 | 2.96 | 0.28 | 0.707 | 3.832 | 7.56 | 3.28 | 3.10 | 0.23 | 1.055 | 4.388 | 6.07 |
| 5.21 | 4.51 | 2.94 | 0.30 | 0.660 | 3.779 | 7.94 | 3.19 | 3.10 | 0.24 | 0.976 | 4.295 | 6.41 |
| 5.47 | 4.35 | 2.91 | 0.31 | 0.612 | 3.724 | 8.34 | 3.11 | 3.07 | 0.25 | 0.899 | 4.202 | 6.76 |
| 5.74 | 4.22 | 2.86 | 0.33 | 0.565 | 3.669 | 8.74 | 3.05 | 3.03 | 0.27 | 0.825 | 4.113 | 7.12 |
| 6.00 | 4.10 | 2.80 | 0.34 | 0.521 | 3.615 | 9.17 | 3.00 | 2.99 | 0.28 | 0.756 | 4.027 | 7.49 |



b=30.00 deg Bc=0.37 m Disp=12.16 kp LCG=0.75 m

| ~CAHI~ | | | | | | | ~SAVITSKY~ | | | | | |
|-------------|------------|---------------|------------|-----------------------|-----------------------|------------|------------|---------------|------------|-----------------------|-----------------------|------------|
| Vs [m/s] | Lamda - | Trim [deg] | D/W [%] | Cr 10 ³ | Ct 10 ³ | R [lbs] | Lamda - | Trim [deg] | D/W [%] | Cr 10 ³ | Ct 10 ³ | R [lbs] |
| 1.00 | 14.68 | 1.45 | 0.06 | 2.656 | 6.049 | 1.54 | 6.04 | 1.14 | 0.04 | 5.057 | 9.082 | 0.96 |
| 1.26 | 13.31 | 1.50 | 0.07 | 1.907 | 5.216 | 1.92 | 5.97 | 1.19 | 0.04 | 3.370 | 7.222 | 1.20 |
| 1.53 | 12.26 | 1.55 | 0.09 | 1.469 | 4.715 | 2.34 | 5.88 | 1.26 | 0.06 | 2.471 | 6.194 | 1.48 |
| 1.79 | 11.40 | 1.61 | 0.10 | 1.191 | 4.387 | 2.78 | 5.77 | 1.33 | 0.07 | 1.937 | 5.562 | 1.79 |
| 2.05 | 10.66 | 1.67 | 0.12 | 1.005 | 4.161 | 3.24 | 5.64 | 1.41 | 0.08 | 1.599 | 5.145 | 2.13 |
| 2.32 | 10.00 | 1.74 | 0.14 | 0.876 | 4.000 | 3.72 | 5.49 | 1.50 | 0.09 | 1.374 | 4.858 | 2.49 |
| 2.58 | 9.39 | 1.81 | 0.16 | 0.784 | 3.884 | 4.21 | 5.33 | 1.61 | 0.11 | 1.221 | 4.654 | 2.87 |
| 2.84 | 8.83 | 1.89 | 0.18 | 0.719 | 3.800 | 4.69 | 5.16 | 1.72 | 0.12 | 1.114 | 4.508 | 3.26 |
| 3.11 | 8.29 | 1.98 | 0.19 | 0.673 | 3.739 | 5.18 | 4.97 | 1.85 | 0.14 | 1.040 | 4.402 | 3.66 |
| 3.37 | 7.79 | 2.08 | 0.21 | 0.640 | 3.697 | 5.65 | 4.77 | 1.98 | 0.15 | 0.988 | 4.325 | 4.06 |
| 3.63 | 7.31 | 2.19 | 0.23 | 0.617 | 3.668 | 6.11 | 4.57 | 2.12 | 0.17 | 0.950 | 4.267 | 4.46 |
| 3.89 | 6.86 | 2.29 | 0.24 | 0.599 | 3.647 | 6.56 | 4.38 | 2.25 | 0.18 | 0.918 | 4.220 | 4.86 |
| 4.16 | 6.45 | 2.39 | 0.26 | 0.584 | 3.630 | 6.98 | 4.19 | 2.37 | 0.20 | 0.888 | 4.177 | 5.24 |
| 4.42 | 6.08 | 2.47 | 0.28 | 0.567 | 3.612 | 7.40 | 4.02 | 2.48 | 0.21 | 0.856 | 4.132 | 5.62 |
| 4.68 | 5.75 | 2.53 | 0.29 | 0.547 | 3.591 | 7.81 | 3.87 | 2.56 | 0.22 | 0.819 | 4.084 | 6.00 |
| 4.95 | 5.47 | 2.56 | 0.31 | 0.523 | 3.565 | 8.23 | 3.74 | 2.62 | 0.24 | 0.778 | 4.031 | 6.38 |
| 5.21 | 5.23 | 2.58 | 0.32 | 0.497 | 3.534 | 8.65 | 3.62 | 2.65 | 0.25 | 0.733 | 3.975 | 6.76 |
| 5.47 | 5.03 | 2.57 | 0.34 | 0.468 | 3.501 | 9.08 | 3.53 | 2.67 | 0.27 | 0.687 | 3.915 | 7.15 |
| 5.74 | 4.85 | 2.55 | 0.36 | 0.438 | 3.465 | 9.53 | 3.44 | 2.66 | 0.28 | 0.640 | 3.855 | 7.55 |
| 6.00 | 4.70 | 2.52 | 0.37 | 0.408 | 3.428 | 9.99 | 3.37 | 2.64 | 0.30 | 0.593 | 3.795 | 7.96 |



Simulation Info:

28/06/2019 08:48:09 pm

Input Data:

Ship Speed: from Vs1=1.00 m/s to Vs2=6.00 m/s (for 20 different Ship Speed values)

Ship Displacement: Disp=16.27 kp

Breadth at Chine: Bc=0.37 m

Deadrise Angle: b=30.00 deg

LCG: from LCG1=0.63 m to LCG2=0.75 m (for 3 different LCG values)

Fresh water properties at 17.50C:

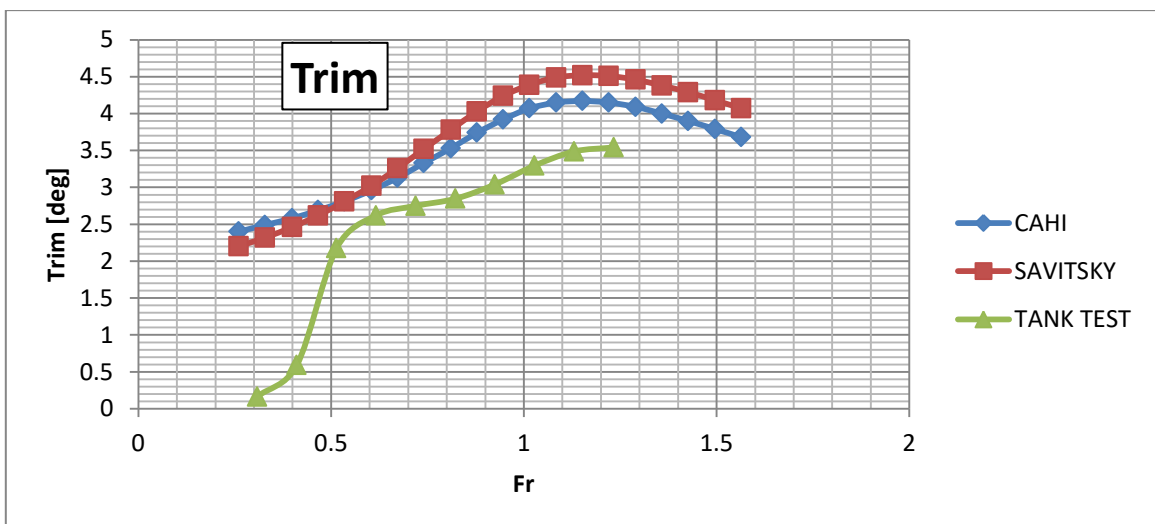
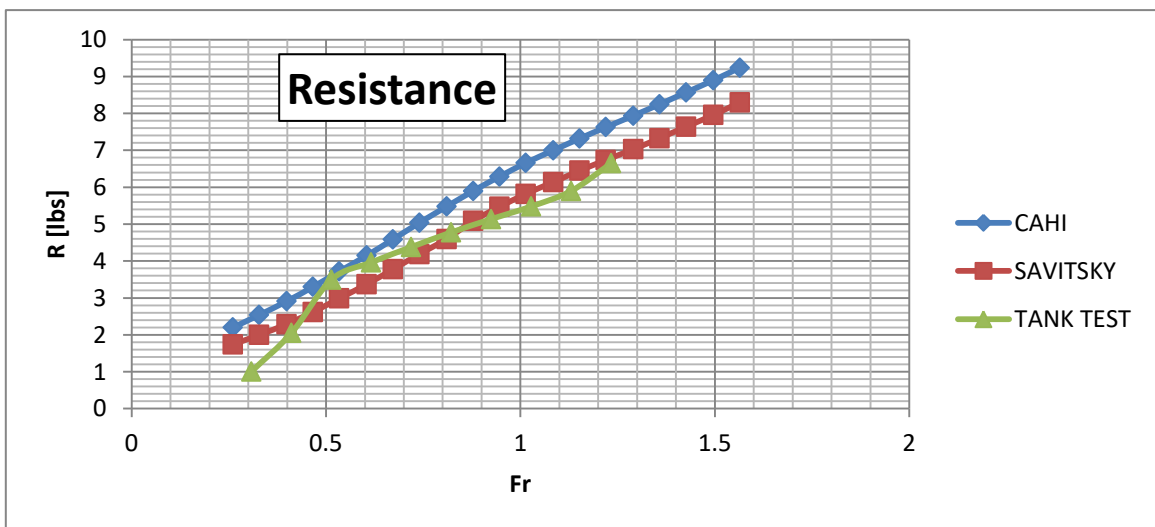
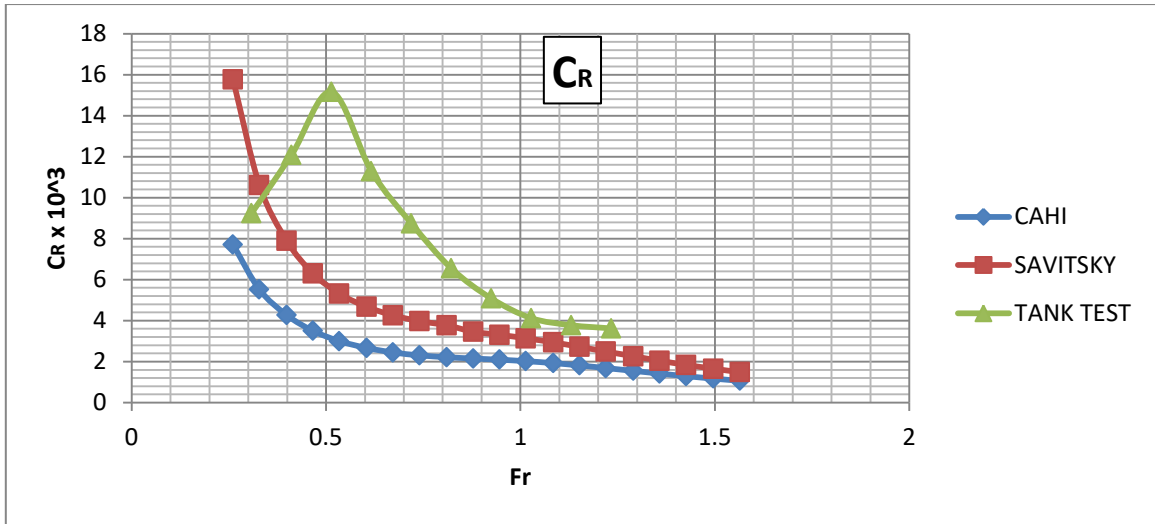
Density=998.60 kg/m³

Viscosity=1.06792*10⁻⁶ m²/s

Results:

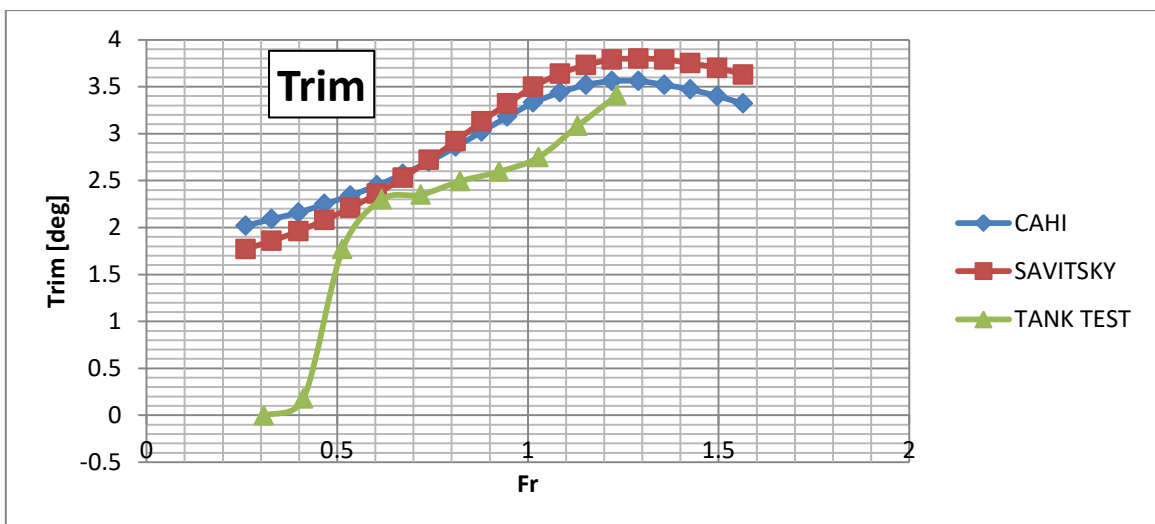
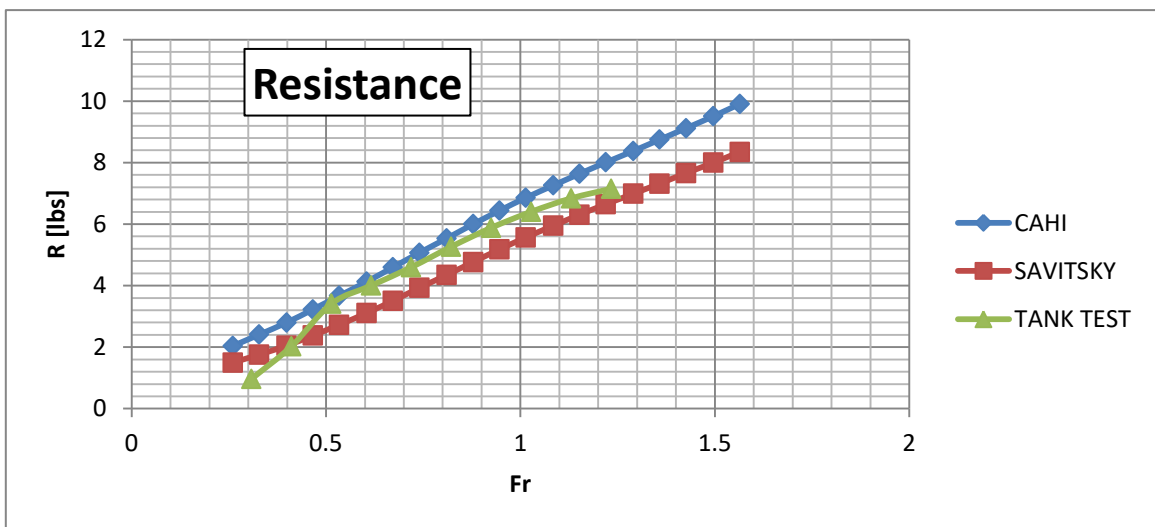
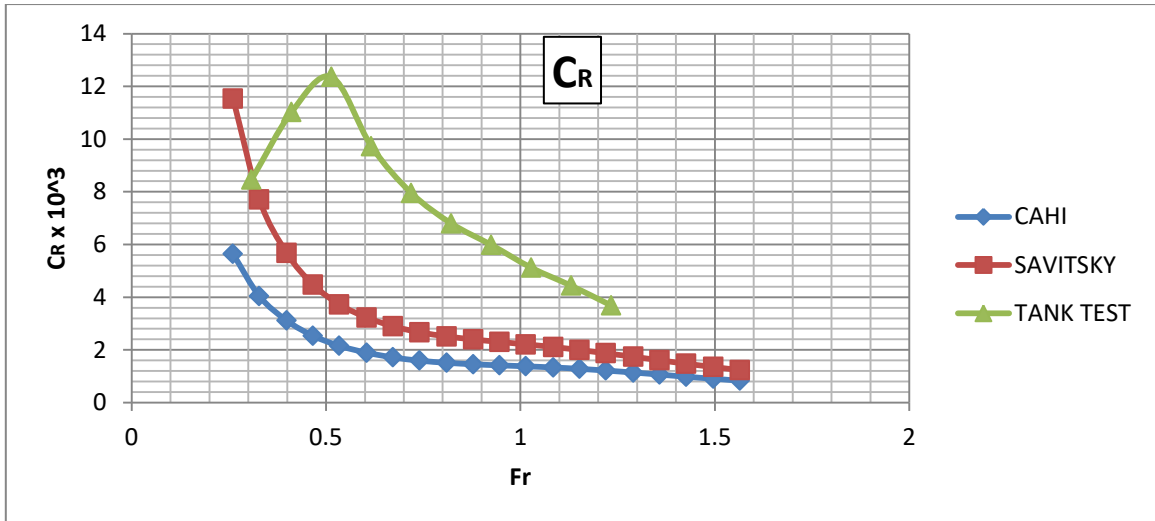
b=30.00 deg Bc=0.37 m Disp=16.27 kp LCG=0.63 m

| ~CAHI~ | | | | | | | ~SAVITSKY~ | | | | | |
|--------|-------|-------|------|-----------------|-----------------|-------|------------|-------|------|-----------------|-----------------|-------|
| Vs | Lamda | Trim | D/W | Cr | Ct | R | Lamda | Trim | D/W | Cr | Ct | R |
| [m/s] | - | [deg] | [%] | 10 ³ | 10 ³ | [lbs] | - | [deg] | [%] | 10 ³ | 10 ³ | [lbs] |
| 1.00 | 11.30 | 2.40 | 0.06 | 7.710 | 11.275 | 2.20 | 5.03 | 2.20 | 0.05 | 15.765 | 19.944 | 1.74 |
| 1.26 | 10.24 | 2.49 | 0.07 | 5.520 | 8.995 | 2.54 | 4.94 | 2.32 | 0.06 | 10.616 | 14.617 | 2.00 |
| 1.53 | 9.42 | 2.58 | 0.08 | 4.271 | 7.679 | 2.91 | 4.83 | 2.46 | 0.06 | 7.893 | 11.763 | 2.29 |
| 1.79 | 8.72 | 2.69 | 0.09 | 3.499 | 6.855 | 3.30 | 4.70 | 2.62 | 0.07 | 6.300 | 10.072 | 2.62 |
| 2.05 | 8.11 | 2.81 | 0.10 | 2.998 | 6.315 | 3.72 | 4.55 | 2.81 | 0.08 | 5.310 | 9.006 | 2.99 |
| 2.32 | 7.55 | 2.96 | 0.12 | 2.666 | 5.954 | 4.15 | 4.38 | 3.02 | 0.09 | 4.672 | 8.311 | 3.37 |
| 2.58 | 7.03 | 3.13 | 0.13 | 2.447 | 5.714 | 4.59 | 4.19 | 3.26 | 0.11 | 4.254 | 7.849 | 3.78 |
| 2.84 | 6.54 | 3.33 | 0.14 | 2.305 | 5.558 | 5.04 | 4.00 | 3.52 | 0.12 | 3.974 | 7.536 | 4.19 |
| 3.11 | 6.07 | 3.53 | 0.15 | 2.214 | 5.459 | 5.48 | 3.80 | 3.78 | 0.13 | 3.773 | 7.311 | 4.60 |
| 3.37 | 5.64 | 3.74 | 0.16 | 2.151 | 5.392 | 5.90 | 3.76 | 4.03 | 0.14 | 3.456 | 6.947 | 5.09 |
| 3.63 | 5.25 | 3.92 | 0.18 | 2.093 | 5.333 | 6.29 | 3.57 | 4.24 | 0.15 | 3.308 | 6.785 | 5.47 |
| 3.89 | 4.91 | 4.07 | 0.19 | 2.021 | 5.260 | 6.66 | 3.39 | 4.39 | 0.16 | 3.138 | 6.602 | 5.82 |
| 4.16 | 4.62 | 4.15 | 0.20 | 1.927 | 5.164 | 7.00 | 3.25 | 4.49 | 0.17 | 2.939 | 6.389 | 6.14 |
| 4.42 | 4.37 | 4.17 | 0.20 | 1.812 | 5.044 | 7.32 | 3.14 | 4.52 | 0.18 | 2.719 | 6.153 | 6.45 |
| 4.68 | 4.17 | 4.15 | 0.21 | 1.683 | 4.909 | 7.63 | 3.04 | 4.51 | 0.19 | 2.490 | 5.906 | 6.74 |
| 4.95 | 4.01 | 4.09 | 0.22 | 1.548 | 4.767 | 7.94 | 2.97 | 4.46 | 0.20 | 2.262 | 5.659 | 7.03 |
| 5.21 | 3.87 | 4.00 | 0.23 | 1.415 | 4.624 | 8.25 | 2.91 | 4.38 | 0.20 | 2.043 | 5.420 | 7.33 |
| 5.47 | 3.75 | 3.90 | 0.24 | 1.289 | 4.487 | 8.57 | 2.87 | 4.29 | 0.21 | 1.839 | 5.195 | 7.64 |
| 5.74 | 3.65 | 3.79 | 0.25 | 1.171 | 4.358 | 8.90 | 2.83 | 4.18 | 0.22 | 1.653 | 4.987 | 7.96 |
| 6.00 | 3.56 | 3.68 | 0.26 | 1.063 | 4.238 | 9.24 | 2.80 | 4.07 | 0.23 | 1.484 | 4.797 | 8.30 |



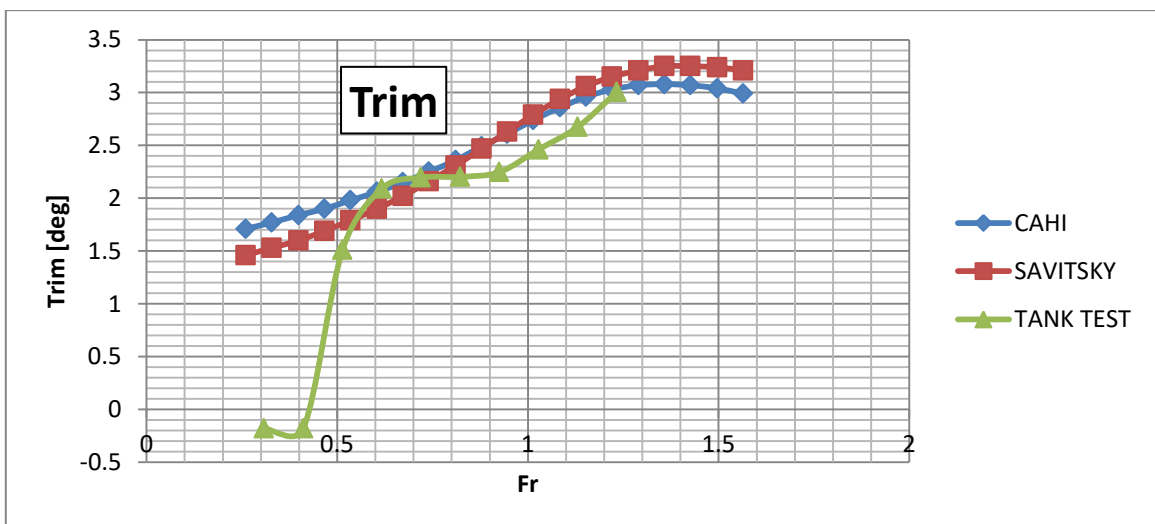
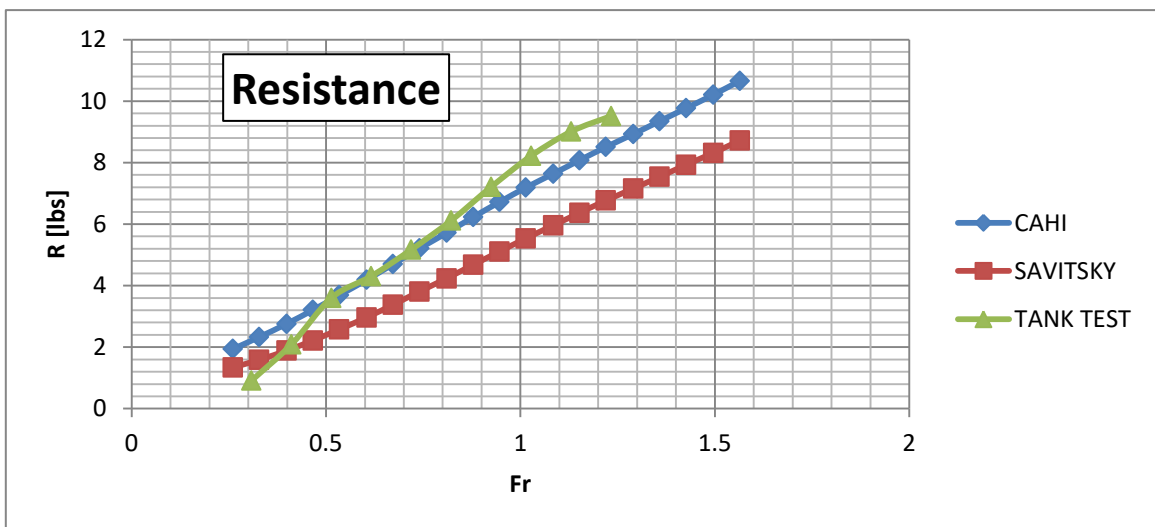
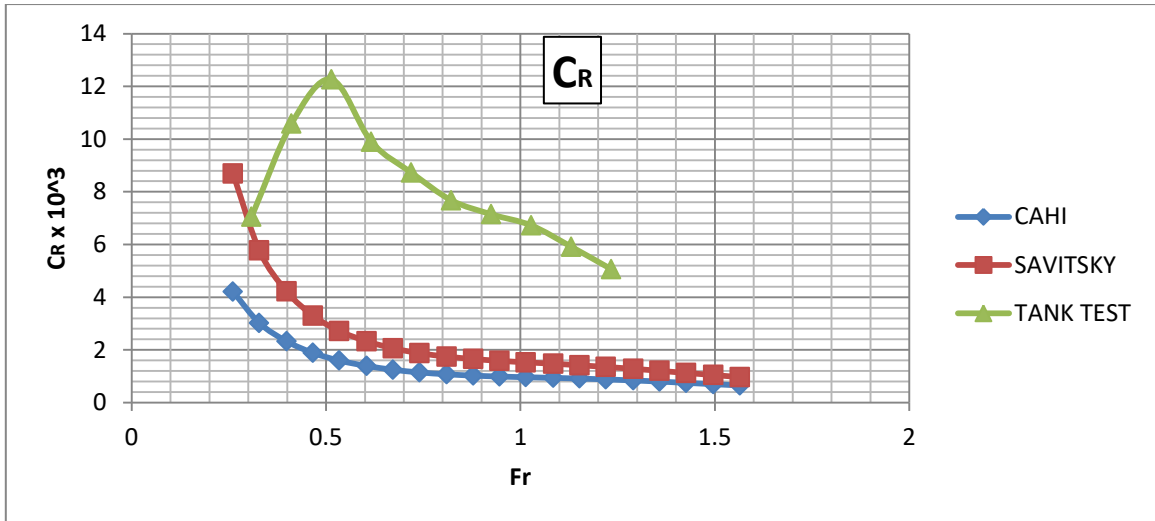
b=30.00 deg Bc=0.37 m Disp=16.27 kp LCG=0.69 m

| ~CAHI~ | | | | | | | ~SAVITSKY~ | | | | | |
|-------------|------------|---------------|------------|-----------------------|-----------------------|------------|------------|---------------|------------|-----------------------|-----------------------|------------|
| Vs [m/s] | Lamda - | Trim [deg] | D/W [%] | Cr 10 ³ | Ct 10 ³ | R [lbs] | Lamda - | Trim [deg] | D/W [%] | Cr 10 ³ | Ct 10 ³ | R [lbs] |
| 1.00 | 12.94 | 2.02 | 0.06 | 5.642 | 9.116 | 2.04 | 5.54 | 1.77 | 0.04 | 11.540 | 15.637 | 1.50 |
| 1.26 | 11.74 | 2.09 | 0.07 | 4.038 | 7.425 | 2.41 | 5.46 | 1.86 | 0.05 | 7.710 | 11.632 | 1.76 |
| 1.53 | 10.80 | 2.16 | 0.08 | 3.113 | 6.436 | 2.80 | 5.36 | 1.96 | 0.06 | 5.676 | 9.468 | 2.05 |
| 1.79 | 10.03 | 2.25 | 0.09 | 2.535 | 5.806 | 3.23 | 5.24 | 2.08 | 0.07 | 4.478 | 8.170 | 2.38 |
| 2.05 | 9.36 | 2.34 | 0.10 | 2.153 | 5.385 | 3.67 | 5.10 | 2.21 | 0.08 | 3.723 | 7.338 | 2.73 |
| 2.32 | 8.75 | 2.45 | 0.12 | 1.893 | 5.094 | 4.13 | 4.94 | 2.36 | 0.09 | 3.227 | 6.783 | 3.11 |
| 2.58 | 8.19 | 2.57 | 0.13 | 1.715 | 4.892 | 4.60 | 4.77 | 2.53 | 0.10 | 2.895 | 6.403 | 3.51 |
| 2.84 | 7.66 | 2.70 | 0.14 | 1.592 | 4.753 | 5.07 | 4.58 | 2.72 | 0.11 | 2.669 | 6.139 | 3.93 |
| 3.11 | 7.16 | 2.86 | 0.15 | 1.510 | 4.659 | 5.54 | 4.38 | 2.92 | 0.12 | 2.512 | 5.954 | 4.35 |
| 3.37 | 6.69 | 3.02 | 0.17 | 1.454 | 4.597 | 6.00 | 4.19 | 3.13 | 0.13 | 2.397 | 5.817 | 4.77 |
| 3.63 | 6.25 | 3.18 | 0.18 | 1.414 | 4.553 | 6.44 | 3.99 | 3.32 | 0.14 | 2.302 | 5.705 | 5.18 |
| 3.89 | 5.84 | 3.33 | 0.19 | 1.377 | 4.514 | 6.86 | 3.81 | 3.50 | 0.16 | 2.210 | 5.599 | 5.57 |
| 4.16 | 5.49 | 3.44 | 0.20 | 1.334 | 4.471 | 7.26 | 3.65 | 3.64 | 0.17 | 2.109 | 5.485 | 5.95 |
| 4.42 | 5.18 | 3.52 | 0.21 | 1.281 | 4.415 | 7.64 | 3.50 | 3.73 | 0.18 | 1.996 | 5.358 | 6.31 |
| 4.68 | 4.92 | 3.56 | 0.22 | 1.215 | 4.347 | 8.01 | 3.38 | 3.79 | 0.19 | 1.871 | 5.220 | 6.65 |
| 4.95 | 4.70 | 3.56 | 0.23 | 1.141 | 4.268 | 8.38 | 3.28 | 3.80 | 0.19 | 1.739 | 5.074 | 6.99 |
| 5.21 | 4.51 | 3.52 | 0.24 | 1.062 | 4.183 | 8.75 | 3.19 | 3.79 | 0.20 | 1.606 | 4.926 | 7.32 |
| 5.47 | 4.35 | 3.47 | 0.25 | 0.982 | 4.096 | 9.12 | 3.11 | 3.75 | 0.21 | 1.475 | 4.780 | 7.66 |
| 5.74 | 4.22 | 3.40 | 0.27 | 0.905 | 4.009 | 9.51 | 3.05 | 3.70 | 0.22 | 1.350 | 4.639 | 8.00 |
| 6.00 | 4.10 | 3.32 | 0.28 | 0.831 | 3.926 | 9.91 | 3.00 | 3.63 | 0.23 | 1.233 | 4.505 | 8.35 |



b=30.00 deg Bc=0.37 m Disp=16.27 kp LCG=0.75 m

| ~CAHI~ | | | | | | | ~SAVITSKY~ | | | | | |
|-------------|------------|---------------|------------|-----------------------|-----------------------|------------|------------|---------------|------------|-----------------------|-----------------------|------------|
| Vs [m/s] | Lamda - | Trim [deg] | D/W [%] | Cr 10 ³ | Ct 10 ³ | R [lbs] | Lamda - | Trim [deg] | D/W [%] | Cr 10 ³ | Ct 10 ³ | R [lbs] |
| 1.00 | 14.68 | 1.71 | 0.05 | 4.213 | 7.606 | 1.94 | 6.04 | 1.46 | 0.04 | 8.690 | 12.715 | 1.34 |
| 1.26 | 13.31 | 1.77 | 0.06 | 3.019 | 6.329 | 2.33 | 5.97 | 1.53 | 0.04 | 5.772 | 9.624 | 1.59 |
| 1.53 | 12.26 | 1.84 | 0.08 | 2.325 | 5.571 | 2.76 | 5.88 | 1.60 | 0.05 | 4.218 | 7.941 | 1.89 |
| 1.79 | 11.40 | 1.90 | 0.09 | 1.886 | 5.082 | 3.21 | 5.77 | 1.69 | 0.06 | 3.297 | 6.922 | 2.22 |
| 2.05 | 10.66 | 1.98 | 0.10 | 1.593 | 4.749 | 3.69 | 5.64 | 1.79 | 0.07 | 2.713 | 6.260 | 2.58 |
| 2.32 | 10.00 | 2.06 | 0.12 | 1.390 | 4.515 | 4.19 | 5.49 | 1.90 | 0.08 | 2.325 | 5.809 | 2.97 |
| 2.58 | 9.39 | 2.15 | 0.13 | 1.247 | 4.347 | 4.70 | 5.33 | 2.02 | 0.09 | 2.059 | 5.493 | 3.38 |
| 2.84 | 8.83 | 2.25 | 0.15 | 1.145 | 4.227 | 5.21 | 5.16 | 2.16 | 0.11 | 1.875 | 5.269 | 3.81 |
| 3.11 | 8.29 | 2.36 | 0.16 | 1.074 | 4.141 | 5.72 | 4.97 | 2.31 | 0.12 | 1.746 | 5.108 | 4.24 |
| 3.37 | 7.79 | 2.49 | 0.17 | 1.024 | 4.082 | 6.23 | 4.77 | 2.47 | 0.13 | 1.654 | 4.991 | 4.68 |
| 3.63 | 7.31 | 2.61 | 0.19 | 0.989 | 4.041 | 6.72 | 4.57 | 2.63 | 0.14 | 1.585 | 4.903 | 5.11 |
| 3.89 | 6.86 | 2.74 | 0.20 | 0.963 | 4.011 | 7.19 | 4.38 | 2.79 | 0.15 | 1.528 | 4.831 | 5.54 |
| 4.16 | 6.45 | 2.86 | 0.21 | 0.939 | 3.986 | 7.64 | 4.19 | 2.94 | 0.17 | 1.475 | 4.764 | 5.96 |
| 4.42 | 6.08 | 2.96 | 0.23 | 0.912 | 3.958 | 8.08 | 4.02 | 3.06 | 0.18 | 1.417 | 4.695 | 6.37 |
| 4.68 | 5.75 | 3.03 | 0.24 | 0.880 | 3.925 | 8.51 | 3.87 | 3.15 | 0.19 | 1.353 | 4.619 | 6.77 |
| 4.95 | 5.47 | 3.07 | 0.25 | 0.841 | 3.884 | 8.93 | 3.74 | 3.21 | 0.20 | 1.282 | 4.536 | 7.16 |
| 5.21 | 5.23 | 3.08 | 0.26 | 0.797 | 3.836 | 9.35 | 3.62 | 3.25 | 0.21 | 1.205 | 4.447 | 7.54 |
| 5.47 | 5.03 | 3.07 | 0.27 | 0.749 | 3.783 | 9.77 | 3.53 | 3.25 | 0.22 | 1.125 | 4.355 | 7.93 |
| 5.74 | 4.85 | 3.04 | 0.28 | 0.699 | 3.727 | 10.21 | 3.44 | 3.24 | 0.23 | 1.046 | 4.262 | 8.32 |
| 6.00 | 4.70 | 2.99 | 0.30 | 0.650 | 3.671 | 10.66 | 3.37 | 3.21 | 0.24 | 0.967 | 4.170 | 8.72 |



Simulation Info:

28/06/2019 08:48:20 pm

Input Data:

Ship Speed: from Vs1=1.00 m/s to Vs2=6.00 m/s (for 20 different Ship Speed values)

Ship Displacement: Disp=23.36 kp

Breadth at Chine: Bc=0.37 m

Deadrise Angle: b=30.00 deg

LCG: from LCG1=0.63 m to LCG2=0.75 m (for 3 different LCG values)

Fresh water properties at 17.50C:

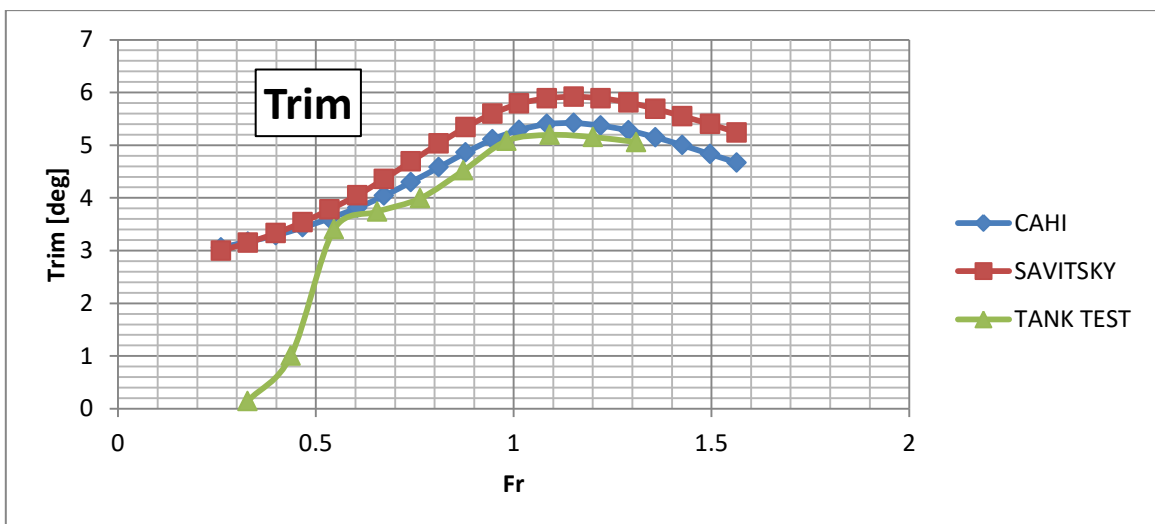
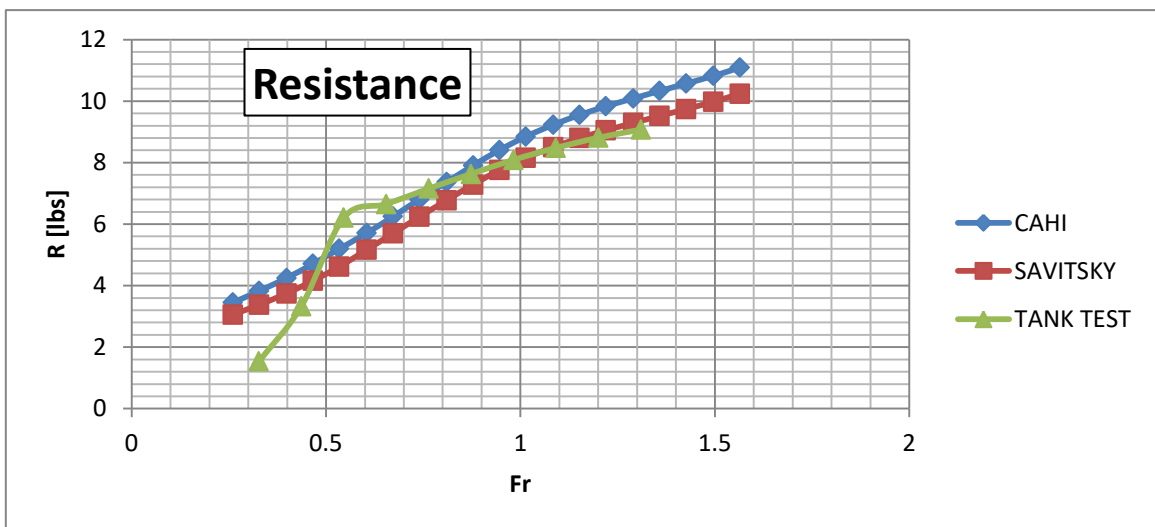
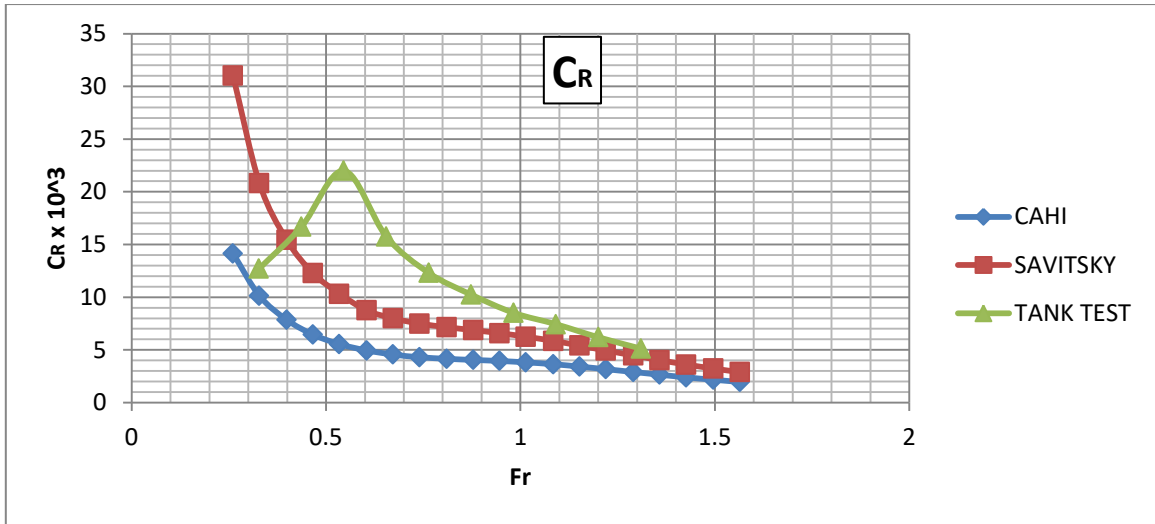
Density=998.60 kg/m³

Viscosity=1.06792*10⁻⁶ m²/s

Results:

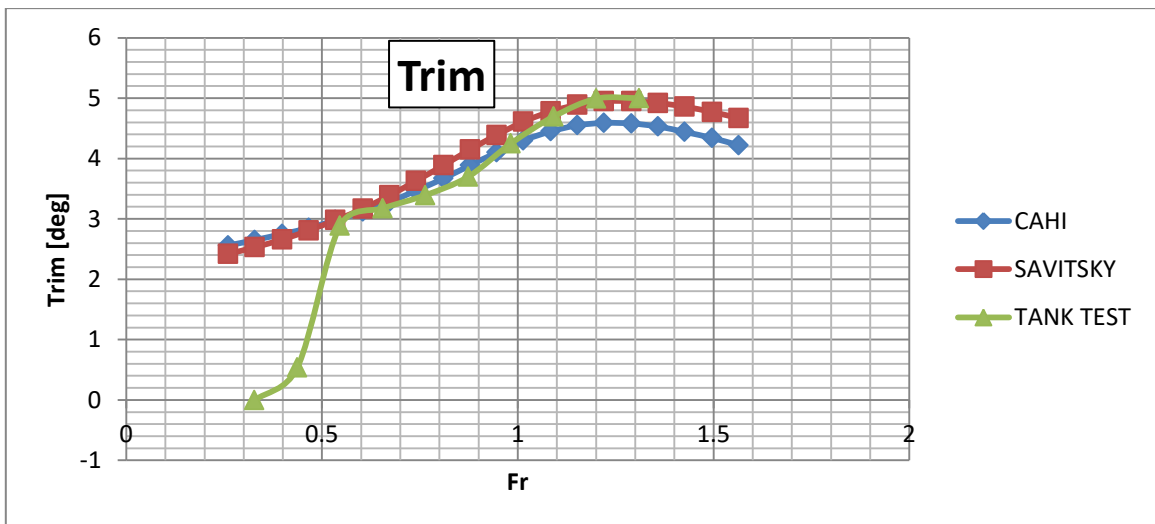
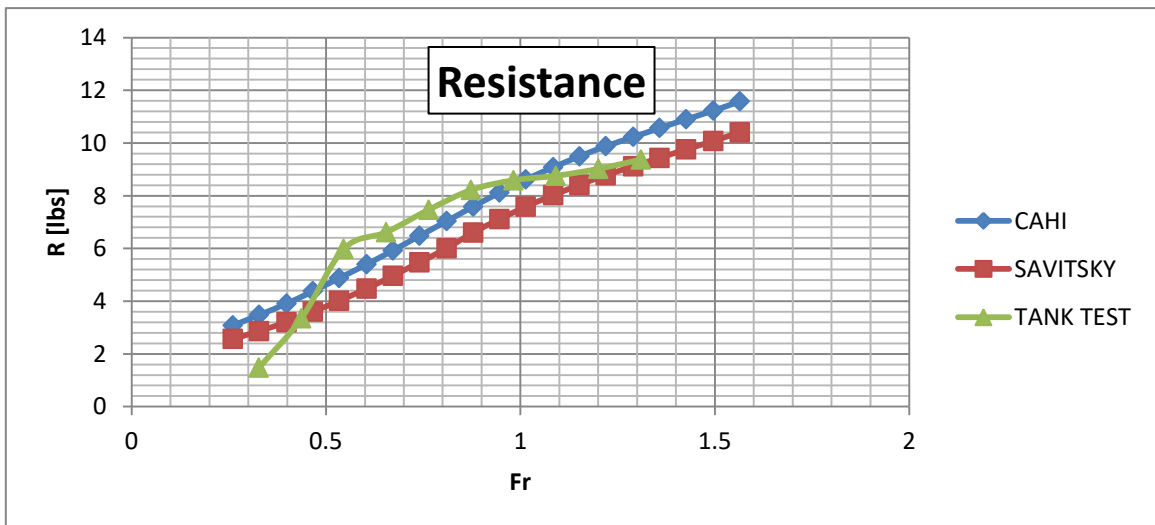
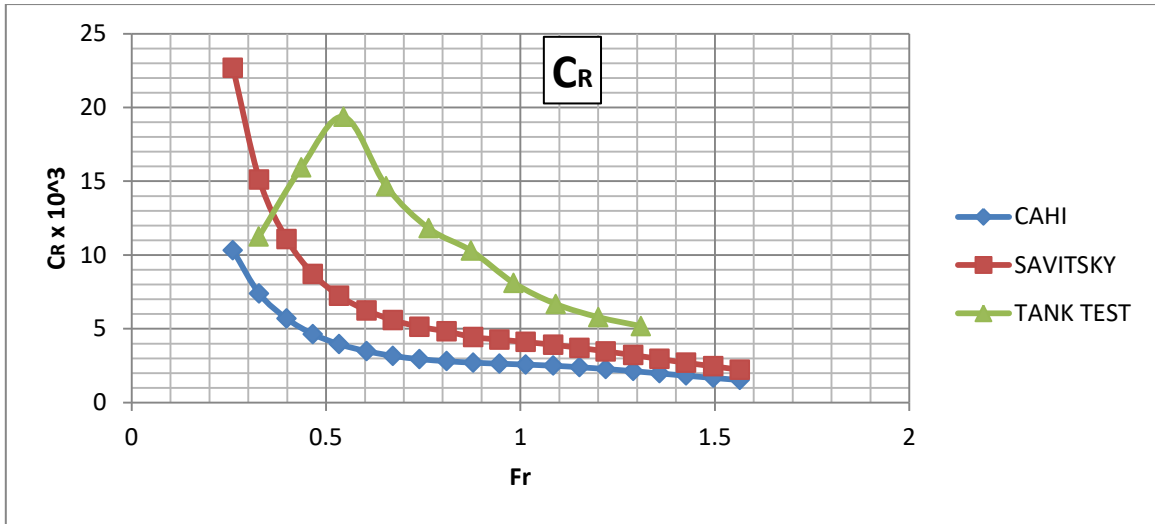
b=30.00 deg Bc=0.37 m Disp=23.36 kp LCG=0.63 m

| ~CAHI~ | | | | | | | ~SAVITSKY~ | | | | | |
|--------|-------|-------|------|-----------------|-----------------|-------|------------|-------|------|-----------------|-----------------|-------|
| Vs | Lamda | Trim | D/W | Cr | Ct | R | Lamda | Trim | D/W | Cr | Ct | R |
| [m/s] | - | [deg] | [%] | 10 ³ | 10 ³ | [lbs] | - | [deg] | [%] | 10 ³ | 10 ³ | [lbs] |
| 1.00 | 11.30 | 3.06 | 0.07 | 14.151 | 17.717 | 3.45 | 5.03 | 3.00 | 0.06 | 31.029 | 35.209 | 3.06 |
| 1.26 | 10.24 | 3.17 | 0.07 | 10.136 | 13.613 | 3.83 | 4.94 | 3.15 | 0.07 | 20.824 | 24.826 | 3.38 |
| 1.53 | 9.42 | 3.29 | 0.08 | 7.856 | 11.265 | 4.25 | 4.83 | 3.33 | 0.07 | 15.433 | 19.304 | 3.75 |
| 1.79 | 8.72 | 3.44 | 0.09 | 6.450 | 9.808 | 4.71 | 4.70 | 3.54 | 0.08 | 12.280 | 16.054 | 4.16 |
| 2.05 | 8.11 | 3.61 | 0.10 | 5.543 | 8.862 | 5.20 | 4.55 | 3.78 | 0.09 | 10.320 | 14.018 | 4.62 |
| 2.32 | 7.55 | 3.81 | 0.11 | 4.946 | 8.236 | 5.71 | 4.53 | 4.05 | 0.10 | 8.748 | 12.365 | 5.17 |
| 2.58 | 7.03 | 4.04 | 0.12 | 4.556 | 7.825 | 6.25 | 4.32 | 4.36 | 0.11 | 7.990 | 11.567 | 5.70 |
| 2.84 | 6.54 | 4.30 | 0.13 | 4.308 | 7.563 | 6.81 | 4.09 | 4.69 | 0.12 | 7.496 | 11.045 | 6.24 |
| 3.11 | 6.07 | 4.58 | 0.14 | 4.153 | 7.401 | 7.37 | 3.86 | 5.03 | 0.13 | 7.154 | 10.684 | 6.78 |
| 3.37 | 5.64 | 4.86 | 0.15 | 4.048 | 7.292 | 7.91 | 3.63 | 5.34 | 0.14 | 6.875 | 10.391 | 7.29 |
| 3.63 | 5.25 | 5.11 | 0.16 | 3.948 | 7.191 | 8.41 | 3.43 | 5.60 | 0.15 | 6.588 | 10.094 | 7.76 |
| 3.89 | 4.91 | 5.29 | 0.17 | 3.818 | 7.060 | 8.85 | 3.25 | 5.79 | 0.16 | 6.251 | 9.745 | 8.16 |
| 4.16 | 4.62 | 5.40 | 0.18 | 3.640 | 6.880 | 9.23 | 3.11 | 5.89 | 0.17 | 5.853 | 9.335 | 8.50 |
| 4.42 | 4.37 | 5.42 | 0.19 | 3.418 | 6.654 | 9.55 | 3.00 | 5.92 | 0.17 | 5.408 | 8.875 | 8.80 |
| 4.68 | 4.17 | 5.37 | 0.19 | 3.166 | 6.396 | 9.83 | 2.90 | 5.89 | 0.18 | 4.940 | 8.389 | 9.05 |
| 4.95 | 4.01 | 5.28 | 0.20 | 2.904 | 6.126 | 10.09 | 2.84 | 5.81 | 0.18 | 4.474 | 7.903 | 9.29 |
| 5.21 | 3.87 | 5.15 | 0.20 | 2.644 | 5.857 | 10.33 | 2.78 | 5.69 | 0.18 | 4.026 | 7.435 | 9.52 |
| 5.47 | 3.75 | 5.00 | 0.21 | 2.397 | 5.599 | 10.57 | 2.74 | 5.55 | 0.19 | 3.610 | 6.996 | 9.74 |
| 5.74 | 3.65 | 4.83 | 0.21 | 2.168 | 5.358 | 10.82 | 2.71 | 5.40 | 0.19 | 3.229 | 6.593 | 9.98 |
| 6.00 | 3.56 | 4.67 | 0.22 | 1.958 | 5.136 | 11.09 | 2.69 | 5.24 | 0.20 | 2.886 | 6.228 | 10.24 |



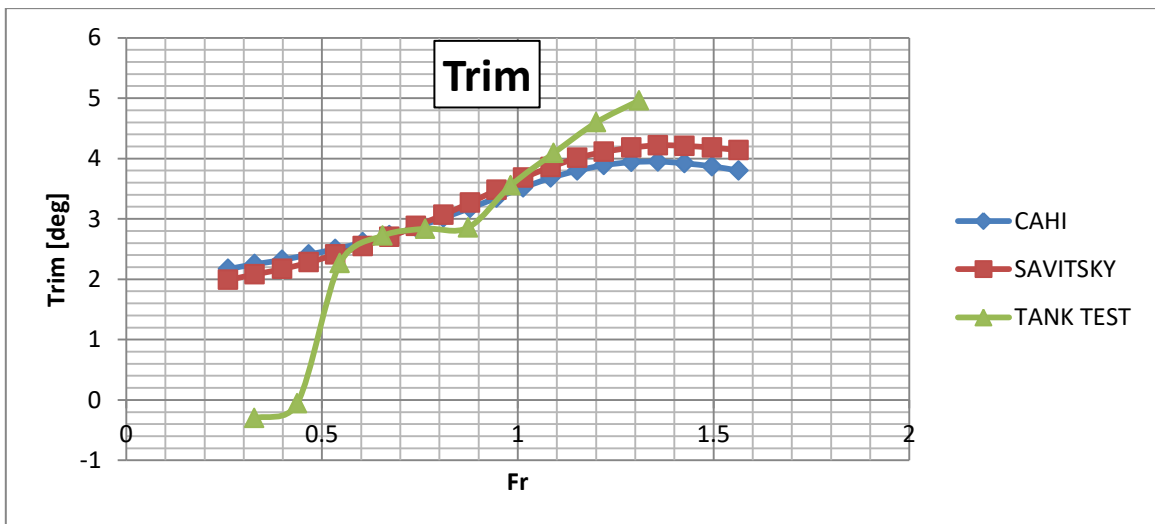
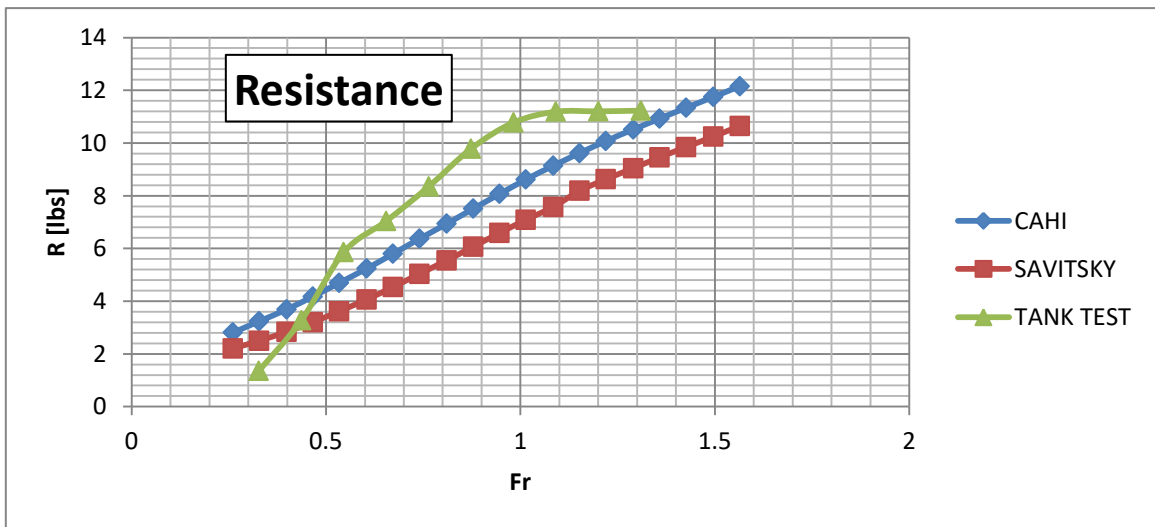
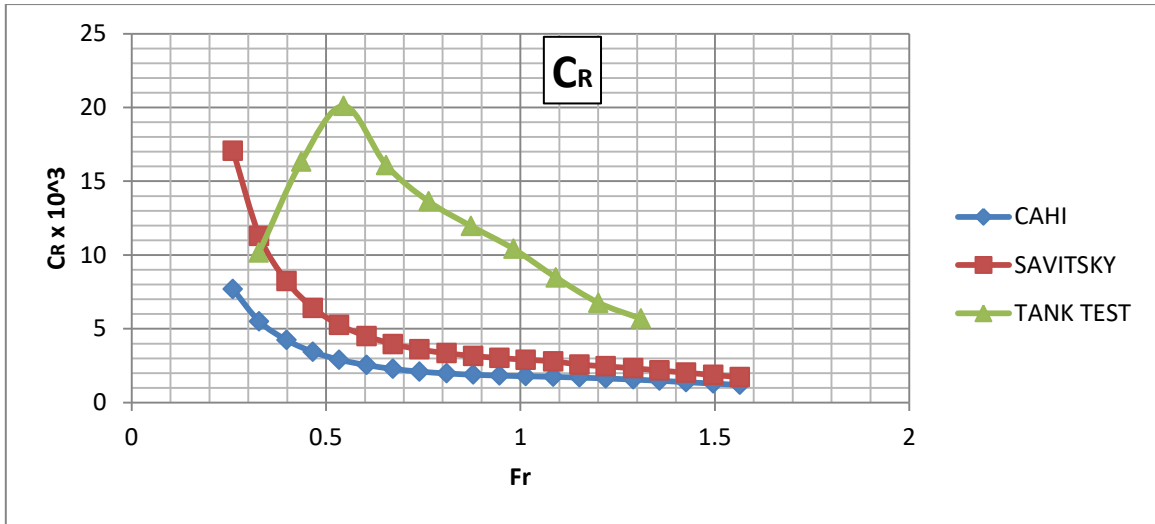
b=30.00 deg Bc=0.37 m Disp=23.36 kp LCG=0.69 m

| ~CAHI~ | | | | | | | ~SAVITSKY~ | | | | | |
|-------------|------------|---------------|------------|-----------------------|-----------------------|------------|------------|---------------|------------|-----------------------|-----------------------|------------|
| Vs [m/s] | Lamda - | Trim [deg] | D/W [%] | Cr 10 ³ | Ct 10 ³ | R [lbs] | Lamda - | Trim [deg] | D/W [%] | Cr 10 ³ | Ct 10 ³ | R [lbs] |
| 1.00 | 12.94 | 2.56 | 0.06 | 10.314 | 13.789 | 3.08 | 5.54 | 2.42 | 0.05 | 22.686 | 26.784 | 2.57 |
| 1.26 | 11.74 | 2.65 | 0.07 | 7.377 | 10.765 | 3.48 | 5.46 | 2.53 | 0.06 | 15.105 | 19.028 | 2.87 |
| 1.53 | 10.80 | 2.75 | 0.08 | 5.692 | 9.015 | 3.91 | 5.36 | 2.66 | 0.06 | 11.084 | 14.877 | 3.21 |
| 1.79 | 10.03 | 2.85 | 0.09 | 4.640 | 7.913 | 4.38 | 5.24 | 2.81 | 0.07 | 8.715 | 12.409 | 3.60 |
| 2.05 | 9.36 | 2.98 | 0.09 | 3.949 | 7.182 | 4.88 | 5.10 | 2.98 | 0.08 | 7.224 | 10.841 | 4.02 |
| 2.32 | 8.75 | 3.12 | 0.10 | 3.481 | 6.683 | 5.40 | 4.94 | 3.17 | 0.09 | 6.244 | 9.801 | 4.48 |
| 2.58 | 8.19 | 3.28 | 0.12 | 3.162 | 6.341 | 5.93 | 4.77 | 3.39 | 0.10 | 5.585 | 9.094 | 4.97 |
| 2.84 | 7.66 | 3.47 | 0.13 | 2.945 | 6.107 | 6.48 | 4.58 | 3.63 | 0.11 | 5.135 | 8.607 | 5.48 |
| 3.11 | 7.16 | 3.67 | 0.14 | 2.802 | 5.952 | 7.04 | 4.38 | 3.89 | 0.12 | 4.821 | 8.264 | 6.01 |
| 3.37 | 6.69 | 3.89 | 0.15 | 2.707 | 5.851 | 7.59 | 4.33 | 4.15 | 0.13 | 4.435 | 7.835 | 6.61 |
| 3.63 | 6.25 | 4.10 | 0.16 | 2.638 | 5.779 | 8.12 | 4.11 | 4.39 | 0.14 | 4.267 | 7.653 | 7.11 |
| 3.89 | 5.84 | 4.30 | 0.17 | 2.575 | 5.714 | 8.62 | 3.91 | 4.61 | 0.15 | 4.102 | 7.477 | 7.59 |
| 4.16 | 5.49 | 4.45 | 0.18 | 2.497 | 5.636 | 9.08 | 3.73 | 4.78 | 0.16 | 3.918 | 7.282 | 8.02 |
| 4.42 | 5.18 | 4.55 | 0.18 | 2.397 | 5.534 | 9.50 | 3.57 | 4.89 | 0.16 | 3.706 | 7.058 | 8.42 |
| 4.68 | 4.92 | 4.59 | 0.19 | 2.272 | 5.406 | 9.88 | 3.45 | 4.95 | 0.17 | 3.468 | 6.807 | 8.78 |
| 4.95 | 4.70 | 4.58 | 0.20 | 2.129 | 5.259 | 10.23 | 3.34 | 4.95 | 0.18 | 3.213 | 6.538 | 9.12 |
| 5.21 | 4.51 | 4.53 | 0.21 | 1.976 | 5.100 | 10.57 | 3.26 | 4.92 | 0.18 | 2.954 | 6.263 | 9.44 |
| 5.47 | 4.35 | 4.44 | 0.21 | 1.822 | 4.937 | 10.90 | 3.19 | 4.86 | 0.19 | 2.698 | 5.990 | 9.76 |
| 5.74 | 4.22 | 4.34 | 0.22 | 1.671 | 4.778 | 11.23 | 3.13 | 4.77 | 0.20 | 2.454 | 5.729 | 10.08 |
| 6.00 | 4.10 | 4.22 | 0.22 | 1.528 | 4.625 | 11.58 | 3.09 | 4.67 | 0.20 | 2.226 | 5.482 | 10.41 |



b=30.00 deg Bc=0.37 m Disp=23.36 kp LCG=0.75 m

| ~CAHI~ | | | | | | | ~SAVITSKY~ | | | | | |
|-------------|------------|---------------|------------|-----------------------|-----------------------|------------|------------|---------------|------------|-----------------------|-----------------------|------------|
| Vs [m/s] | Lamda - | Trim [deg] | D/W [%] | Cr 10 ³ | Ct 10 ³ | R [lbs] | Lamda - | Trim [deg] | D/W [%] | Cr 10 ³ | Ct 10 ³ | R [lbs] |
| 1.00 | 14.68 | 2.17 | 0.05 | 7.684 | 11.078 | 2.81 | 6.04 | 1.99 | 0.04 | 17.071 | 21.097 | 2.21 |
| 1.26 | 13.31 | 2.25 | 0.06 | 5.498 | 8.808 | 3.24 | 5.97 | 2.08 | 0.05 | 11.299 | 15.151 | 2.50 |
| 1.53 | 12.26 | 2.32 | 0.07 | 4.233 | 7.479 | 3.69 | 5.88 | 2.17 | 0.06 | 8.228 | 11.953 | 2.84 |
| 1.79 | 11.40 | 2.41 | 0.08 | 3.435 | 6.632 | 4.18 | 5.77 | 2.28 | 0.06 | 6.412 | 10.037 | 3.21 |
| 2.05 | 10.66 | 2.50 | 0.09 | 2.904 | 6.062 | 4.70 | 5.64 | 2.41 | 0.07 | 5.259 | 8.806 | 3.62 |
| 2.32 | 10.00 | 2.61 | 0.10 | 2.539 | 5.665 | 5.24 | 5.49 | 2.55 | 0.08 | 4.492 | 7.977 | 4.07 |
| 2.58 | 9.39 | 2.73 | 0.11 | 2.282 | 5.383 | 5.80 | 5.33 | 2.70 | 0.09 | 3.967 | 7.402 | 4.54 |
| 2.84 | 8.83 | 2.86 | 0.12 | 2.101 | 5.184 | 6.37 | 5.16 | 2.88 | 0.10 | 3.602 | 6.997 | 5.04 |
| 3.11 | 8.29 | 3.02 | 0.13 | 1.975 | 5.044 | 6.94 | 4.97 | 3.07 | 0.11 | 3.344 | 6.708 | 5.55 |
| 3.37 | 7.79 | 3.18 | 0.15 | 1.888 | 4.947 | 7.51 | 4.77 | 3.27 | 0.12 | 3.159 | 6.498 | 6.07 |
| 3.63 | 7.31 | 3.35 | 0.16 | 1.829 | 4.882 | 8.07 | 4.57 | 3.48 | 0.13 | 3.020 | 6.339 | 6.59 |
| 3.89 | 6.86 | 3.52 | 0.17 | 1.784 | 4.834 | 8.62 | 4.38 | 3.68 | 0.14 | 2.904 | 6.208 | 7.09 |
| 4.16 | 6.45 | 3.68 | 0.18 | 1.742 | 4.791 | 9.14 | 4.19 | 3.86 | 0.15 | 2.795 | 6.086 | 7.58 |
| 4.42 | 6.08 | 3.80 | 0.19 | 1.694 | 4.742 | 9.62 | 4.18 | 4.01 | 0.16 | 2.577 | 5.833 | 8.19 |
| 4.68 | 5.75 | 3.89 | 0.20 | 1.634 | 4.681 | 10.08 | 4.02 | 4.11 | 0.17 | 2.457 | 5.702 | 8.63 |
| 4.95 | 5.47 | 3.94 | 0.20 | 1.561 | 4.605 | 10.52 | 3.88 | 4.18 | 0.18 | 2.322 | 5.556 | 9.05 |
| 5.21 | 5.23 | 3.95 | 0.21 | 1.476 | 4.517 | 10.93 | 3.76 | 4.22 | 0.18 | 2.176 | 5.398 | 9.46 |
| 5.47 | 5.03 | 3.92 | 0.22 | 1.384 | 4.419 | 11.34 | 3.67 | 4.21 | 0.19 | 2.024 | 5.233 | 9.85 |
| 5.74 | 4.85 | 3.87 | 0.23 | 1.288 | 4.318 | 11.75 | 3.58 | 4.18 | 0.20 | 1.872 | 5.067 | 10.25 |
| 6.00 | 4.70 | 3.80 | 0.24 | 1.194 | 4.216 | 12.16 | 3.52 | 4.14 | 0.21 | 1.723 | 4.903 | 10.65 |



Simulation Info:

 28/06/2019 08:48:36 pm

Input Data:

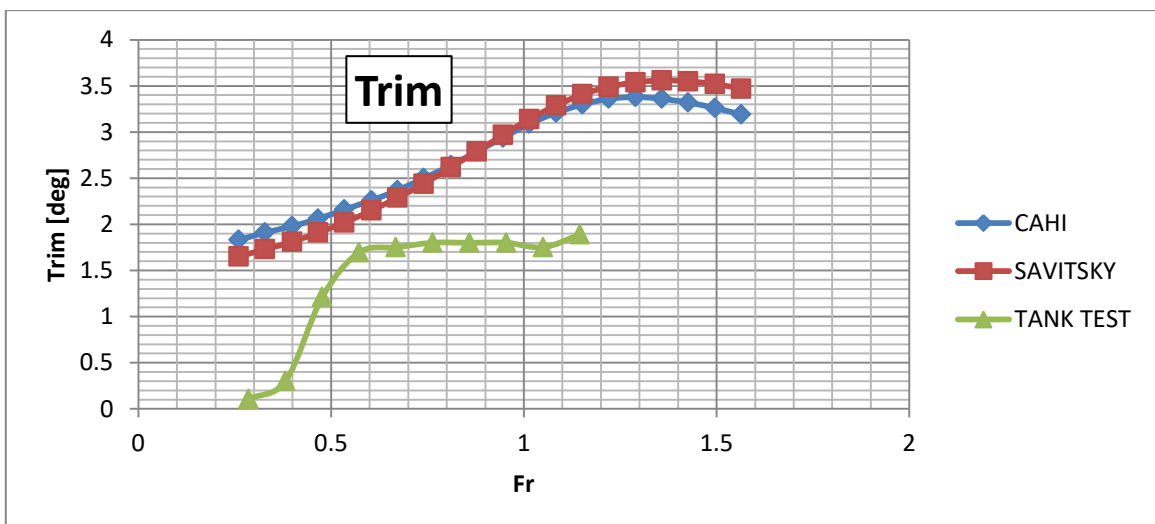
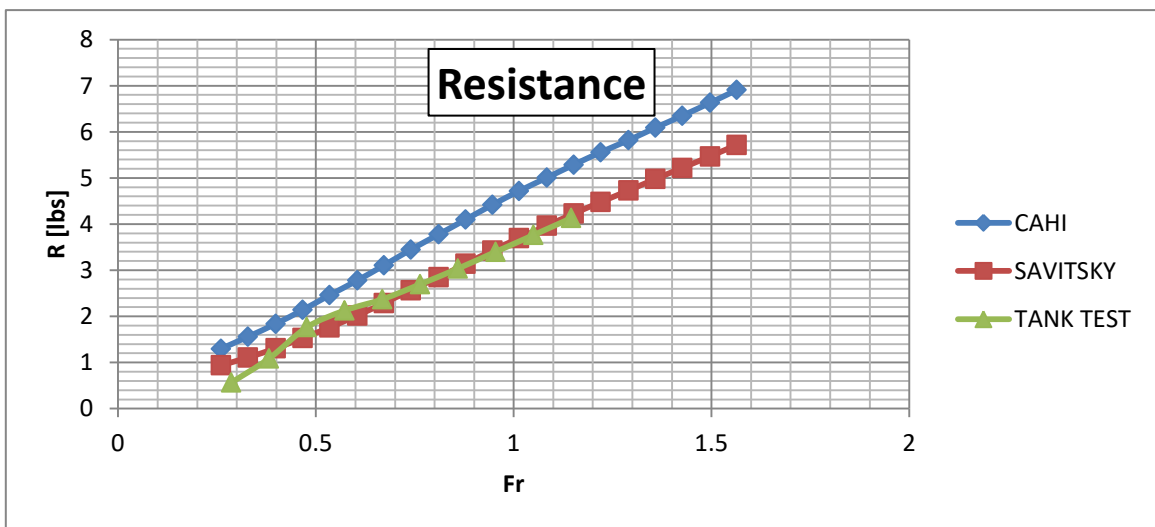
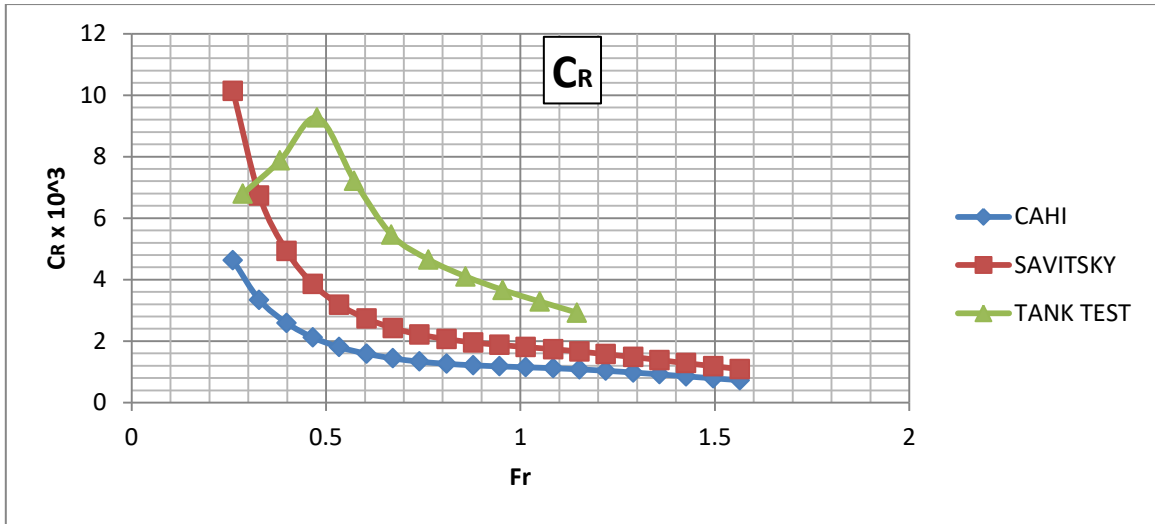
 Ship Speed: from Vs1=1.00 m/s to Vs2=6.00 m/s (for 20 different Ship Speed values)
 Ship Displacement: Disp=10.47 kp
 Breadth at Chine: Bc=0.27 m
 Deadrise Angle: b=30.00 deg
 LCG: from LCG1=0.63 m to LCG2=0.75 m (for 3 different LCG values)

Fresh water properties at 15.50C:
 Density=998.95 kg/m³
 Viscosity=1.12417*10⁻⁶ m²/s

Results:

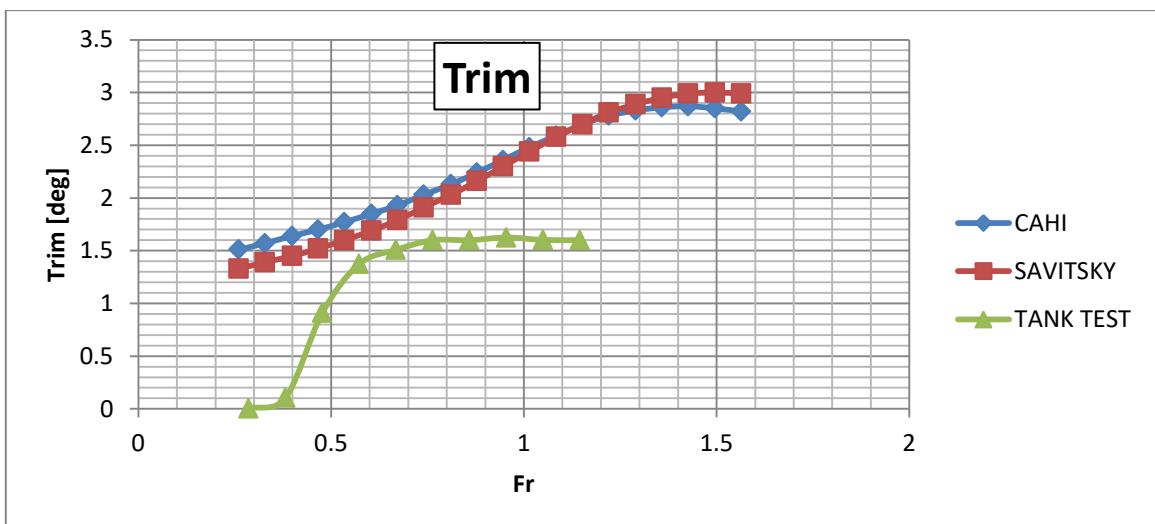
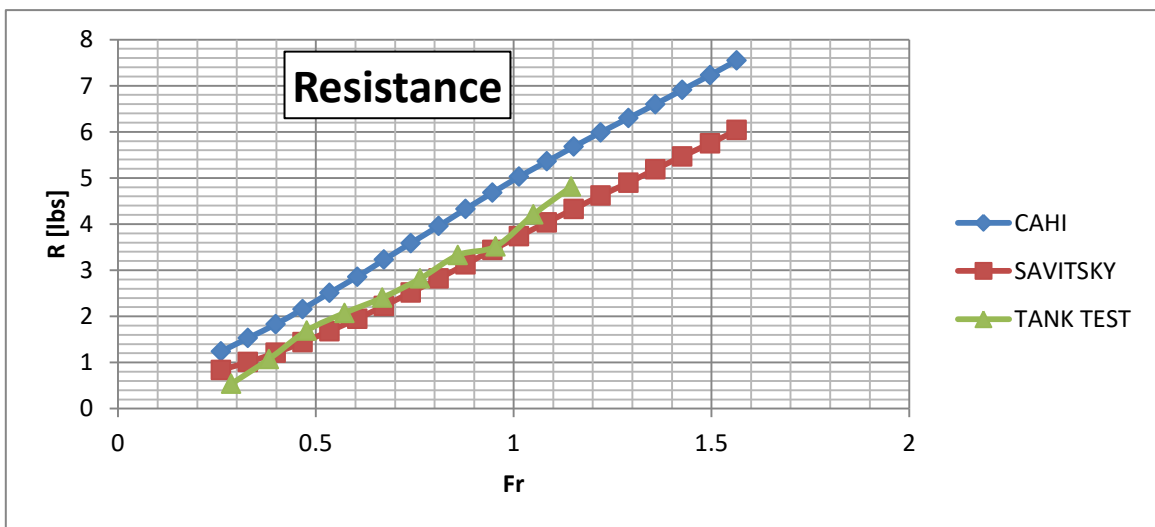
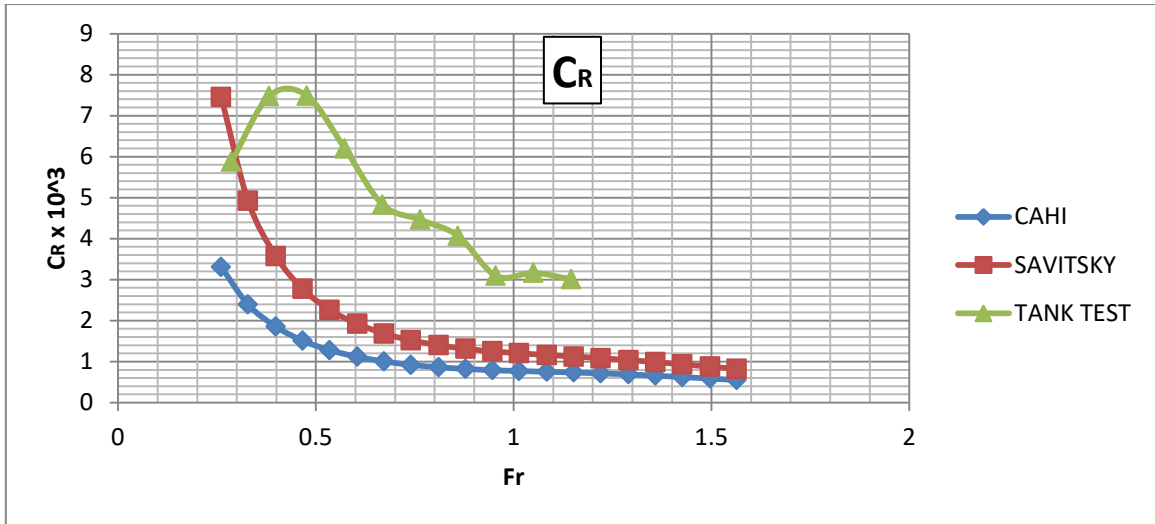
b=30.00 deg Bc=0.27 m Disp=10.47 kp LCG=0.63 m

| ~CAHI~ | | | | | | | ~SAVITSKY~ | | | | | |
|--------|-------|-------|------|-----------------|-----------------|-------|------------|-------|------|-----------------|-----------------|-------|
| Vs | Lamda | Trim | D/W | Cr | Ct | R | Lamda | Trim | D/W | Cr | Ct | R |
| [m/s] | - | [deg] | [%] | 10 ³ | 10 ³ | [lbs] | - | [deg] | [%] | 10 ³ | 10 ³ | [lbs] |
| 1.00 | 16.63 | 1.83 | 0.06 | 4.631 | 8.169 | 1.30 | 6.82 | 1.65 | 0.04 | 10.139 | 14.354 | 0.94 |
| 1.26 | 15.04 | 1.91 | 0.07 | 3.340 | 6.790 | 1.56 | 6.73 | 1.73 | 0.05 | 6.735 | 10.766 | 1.11 |
| 1.53 | 13.83 | 1.98 | 0.08 | 2.590 | 5.973 | 1.84 | 6.62 | 1.81 | 0.06 | 4.925 | 8.819 | 1.31 |
| 1.79 | 12.82 | 2.06 | 0.09 | 2.117 | 5.449 | 2.14 | 6.49 | 1.91 | 0.07 | 3.855 | 7.644 | 1.53 |
| 2.05 | 11.96 | 2.16 | 0.11 | 1.802 | 5.094 | 2.46 | 6.34 | 2.02 | 0.08 | 3.177 | 6.884 | 1.76 |
| 2.32 | 11.19 | 2.26 | 0.12 | 1.587 | 4.847 | 2.78 | 6.16 | 2.15 | 0.09 | 2.728 | 6.369 | 2.02 |
| 2.58 | 10.48 | 2.37 | 0.13 | 1.437 | 4.672 | 3.11 | 5.97 | 2.29 | 0.10 | 2.422 | 6.011 | 2.29 |
| 2.84 | 9.82 | 2.50 | 0.15 | 1.333 | 4.550 | 3.45 | 5.76 | 2.44 | 0.11 | 2.211 | 5.759 | 2.57 |
| 3.11 | 9.19 | 2.64 | 0.16 | 1.261 | 4.465 | 3.78 | 5.54 | 2.62 | 0.12 | 2.063 | 5.578 | 2.85 |
| 3.37 | 8.60 | 2.79 | 0.18 | 1.213 | 4.408 | 4.10 | 5.31 | 2.79 | 0.14 | 1.957 | 5.447 | 3.14 |
| 3.63 | 8.05 | 2.94 | 0.19 | 1.178 | 4.369 | 4.42 | 5.08 | 2.97 | 0.15 | 1.876 | 5.346 | 3.43 |
| 3.89 | 7.54 | 3.09 | 0.20 | 1.149 | 4.338 | 4.72 | 4.86 | 3.14 | 0.16 | 1.806 | 5.260 | 3.70 |
| 4.16 | 7.09 | 3.21 | 0.22 | 1.118 | 4.306 | 5.01 | 4.65 | 3.29 | 0.17 | 1.736 | 5.176 | 3.97 |
| 4.42 | 6.68 | 3.30 | 0.23 | 1.081 | 4.267 | 5.29 | 4.46 | 3.41 | 0.18 | 1.659 | 5.087 | 4.23 |
| 4.68 | 6.33 | 3.36 | 0.24 | 1.034 | 4.217 | 5.56 | 4.30 | 3.49 | 0.19 | 1.573 | 4.988 | 4.48 |
| 4.95 | 6.03 | 3.38 | 0.25 | 0.978 | 4.159 | 5.82 | 4.16 | 3.54 | 0.21 | 1.480 | 4.882 | 4.73 |
| 5.21 | 5.78 | 3.36 | 0.26 | 0.917 | 4.093 | 6.09 | 4.03 | 3.56 | 0.22 | 1.382 | 4.770 | 4.98 |
| 5.47 | 5.57 | 3.32 | 0.28 | 0.853 | 4.022 | 6.35 | 3.93 | 3.55 | 0.23 | 1.282 | 4.656 | 5.22 |
| 5.74 | 5.38 | 3.26 | 0.29 | 0.790 | 3.951 | 6.63 | 3.84 | 3.52 | 0.24 | 1.184 | 4.543 | 5.47 |
| 6.00 | 5.22 | 3.19 | 0.30 | 0.728 | 3.881 | 6.91 | 3.76 | 3.47 | 0.25 | 1.089 | 4.433 | 5.72 |



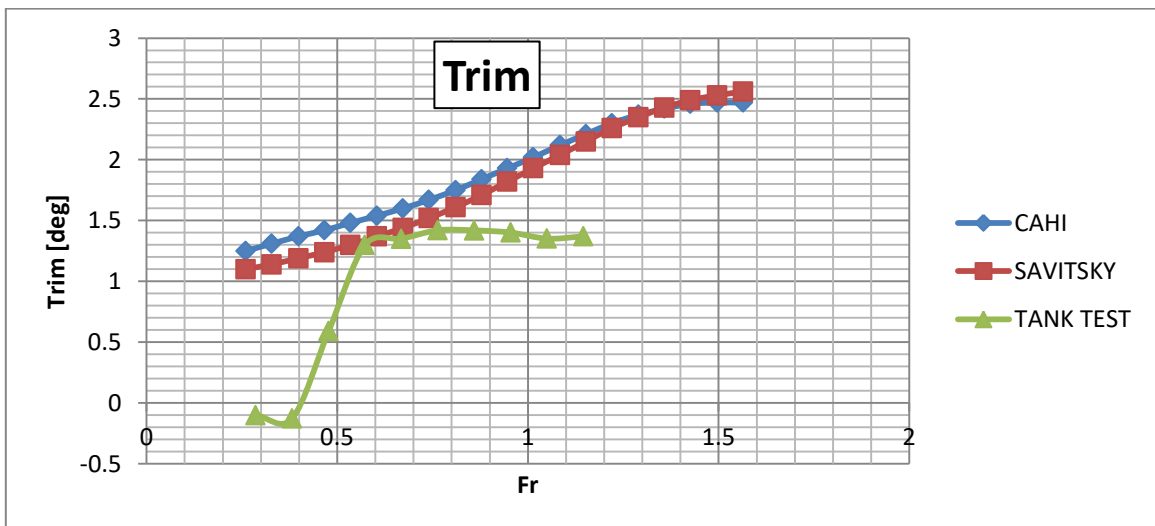
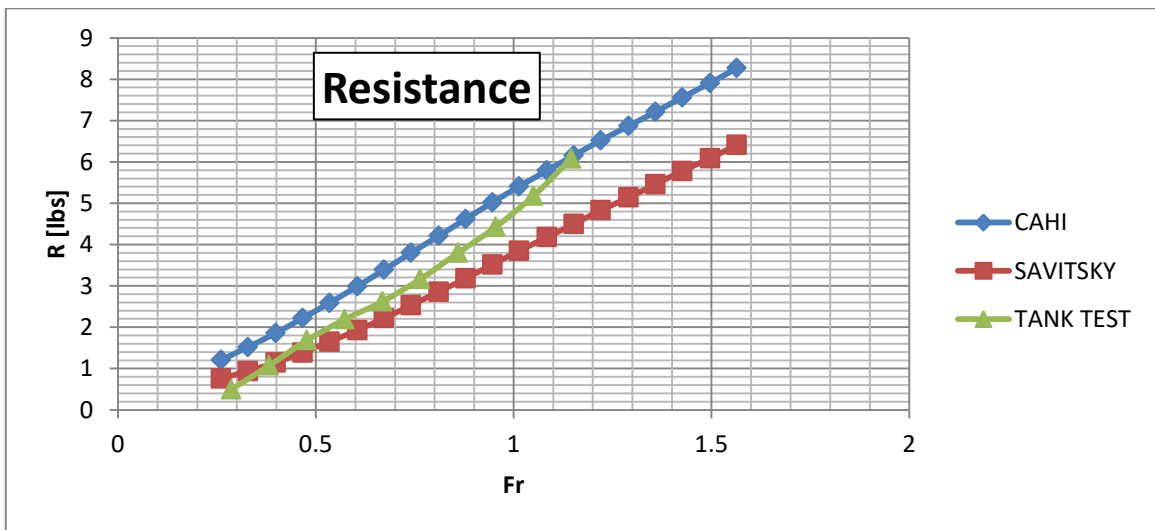
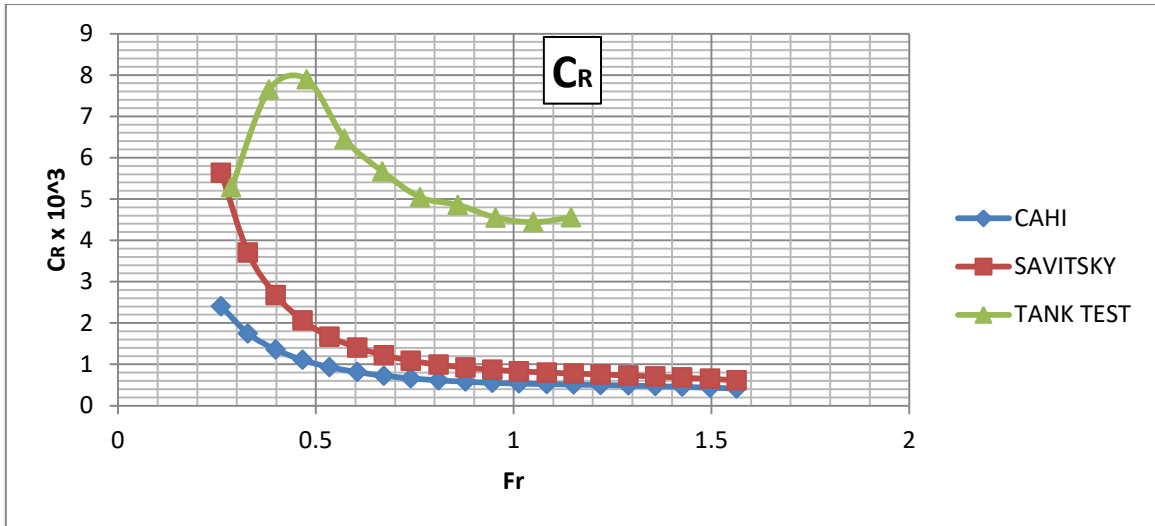
b=30.00 deg Bc=0.27 m Disp=10.47 kp LCG=0.69 m

| ~CAHI~ | | | | | | | ~SAVITSKY~ | | | | | |
|-------------|------------|---------------|------------|-----------------------|-----------------------|------------|------------|---------------|------------|-----------------------|-----------------------|------------|
| Vs [m/s] | Lamda - | Trim [deg] | D/W [%] | Cr 10 ³ | Ct 10 ³ | R [lbs] | Lamda - | Trim [deg] | D/W [%] | Cr 10 ³ | Ct 10 ³ | R [lbs] |
| 1.00 | 19.14 | 1.51 | 0.05 | 3.306 | 6.751 | 1.24 | 7.50 | 1.33 | 0.04 | 7.451 | 11.585 | 0.84 |
| 1.26 | 17.32 | 1.57 | 0.07 | 2.391 | 5.752 | 1.53 | 7.41 | 1.39 | 0.04 | 4.922 | 8.875 | 1.01 |
| 1.53 | 15.92 | 1.64 | 0.08 | 1.853 | 5.150 | 1.83 | 7.31 | 1.45 | 0.05 | 3.573 | 7.391 | 1.21 |
| 1.79 | 14.79 | 1.70 | 0.09 | 1.510 | 4.757 | 2.16 | 7.19 | 1.52 | 0.06 | 2.773 | 6.486 | 1.44 |
| 2.05 | 13.82 | 1.77 | 0.11 | 1.279 | 4.486 | 2.51 | 7.06 | 1.60 | 0.07 | 2.262 | 5.893 | 1.68 |
| 2.32 | 12.97 | 1.85 | 0.12 | 1.118 | 4.292 | 2.86 | 6.90 | 1.69 | 0.08 | 1.921 | 5.484 | 1.95 |
| 2.58 | 12.19 | 1.93 | 0.14 | 1.004 | 4.152 | 3.23 | 6.72 | 1.79 | 0.10 | 1.684 | 5.193 | 2.23 |
| 2.84 | 11.47 | 2.03 | 0.16 | 0.921 | 4.049 | 3.59 | 6.53 | 1.91 | 0.11 | 1.518 | 4.983 | 2.52 |
| 3.11 | 10.80 | 2.13 | 0.17 | 0.863 | 3.975 | 3.96 | 6.32 | 2.03 | 0.12 | 1.399 | 4.828 | 2.82 |
| 3.37 | 10.16 | 2.24 | 0.19 | 0.821 | 3.922 | 4.33 | 6.10 | 2.16 | 0.14 | 1.313 | 4.714 | 3.13 |
| 3.63 | 9.56 | 2.36 | 0.20 | 0.791 | 3.885 | 4.68 | 5.87 | 2.30 | 0.15 | 1.251 | 4.628 | 3.44 |
| 3.89 | 8.99 | 2.48 | 0.22 | 0.770 | 3.859 | 5.03 | 5.64 | 2.44 | 0.16 | 1.203 | 4.562 | 3.74 |
| 4.16 | 8.46 | 2.59 | 0.23 | 0.752 | 3.839 | 5.36 | 5.41 | 2.58 | 0.18 | 1.162 | 4.507 | 4.04 |
| 4.42 | 7.98 | 2.70 | 0.25 | 0.734 | 3.820 | 5.68 | 5.20 | 2.70 | 0.19 | 1.124 | 4.455 | 4.33 |
| 4.68 | 7.55 | 2.78 | 0.26 | 0.713 | 3.798 | 5.99 | 5.00 | 2.81 | 0.20 | 1.083 | 4.403 | 4.62 |
| 4.95 | 7.17 | 2.83 | 0.27 | 0.688 | 3.771 | 6.30 | 4.82 | 2.89 | 0.21 | 1.038 | 4.347 | 4.90 |
| 5.21 | 6.84 | 2.86 | 0.29 | 0.657 | 3.738 | 6.60 | 4.66 | 2.95 | 0.22 | 0.988 | 4.286 | 5.19 |
| 5.47 | 6.55 | 2.87 | 0.30 | 0.623 | 3.701 | 6.91 | 4.52 | 2.99 | 0.24 | 0.934 | 4.220 | 5.47 |
| 5.74 | 6.31 | 2.85 | 0.31 | 0.586 | 3.659 | 7.23 | 4.41 | 3.00 | 0.25 | 0.877 | 4.152 | 5.75 |
| 6.00 | 6.10 | 2.82 | 0.33 | 0.549 | 3.616 | 7.55 | 4.30 | 2.99 | 0.26 | 0.820 | 4.083 | 6.04 |



b=30.00 deg Bc=0.27 m Disp=10.47 kp LCG=0.75 m

| ~CAHI~ | | | | | | | ~SAVITSKY~ | | | | | |
|-------------|------------|---------------|------------|-----------------------|-----------------------|------------|------------|---------------|------------|-----------------------|-----------------------|------------|
| Vs [m/s] | Lamda - | Trim [deg] | D/W [%] | Cr 10 ³ | Ct 10 ³ | R [lbs] | Lamda - | Trim [deg] | D/W [%] | Cr 10 ³ | Ct 10 ³ | R [lbs] |
| 1.00 | 21.80 | 1.25 | 0.05 | 2.404 | 5.766 | 1.21 | 8.17 | 1.10 | 0.03 | 5.628 | 9.690 | 0.76 |
| 1.26 | 19.72 | 1.31 | 0.07 | 1.746 | 5.028 | 1.52 | 8.10 | 1.14 | 0.04 | 3.701 | 7.585 | 0.94 |
| 1.53 | 18.14 | 1.37 | 0.08 | 1.356 | 4.576 | 1.86 | 8.00 | 1.19 | 0.05 | 2.673 | 6.424 | 1.15 |
| 1.79 | 16.86 | 1.42 | 0.10 | 1.104 | 4.275 | 2.22 | 7.89 | 1.24 | 0.06 | 2.061 | 5.708 | 1.39 |
| 2.05 | 15.78 | 1.48 | 0.11 | 0.933 | 4.064 | 2.59 | 7.77 | 1.30 | 0.07 | 1.668 | 5.233 | 1.65 |
| 2.32 | 14.84 | 1.54 | 0.13 | 0.812 | 3.910 | 2.99 | 7.62 | 1.37 | 0.08 | 1.404 | 4.901 | 1.93 |
| 2.58 | 13.99 | 1.60 | 0.15 | 0.724 | 3.796 | 3.39 | 7.46 | 1.44 | 0.10 | 1.219 | 4.660 | 2.22 |
| 2.84 | 13.21 | 1.67 | 0.16 | 0.660 | 3.711 | 3.80 | 7.28 | 1.52 | 0.11 | 1.087 | 4.482 | 2.53 |
| 3.11 | 12.48 | 1.75 | 0.18 | 0.613 | 3.647 | 4.21 | 7.08 | 1.61 | 0.12 | 0.991 | 4.348 | 2.86 |
| 3.37 | 11.79 | 1.84 | 0.20 | 0.578 | 3.599 | 4.62 | 6.87 | 1.71 | 0.14 | 0.921 | 4.247 | 3.18 |
| 3.63 | 11.14 | 1.93 | 0.22 | 0.553 | 3.564 | 5.02 | 6.65 | 1.82 | 0.15 | 0.869 | 4.169 | 3.52 |
| 3.89 | 10.52 | 2.02 | 0.23 | 0.535 | 3.539 | 5.41 | 6.43 | 1.93 | 0.17 | 0.831 | 4.110 | 3.85 |
| 4.16 | 9.94 | 2.12 | 0.25 | 0.521 | 3.521 | 5.79 | 6.19 | 2.04 | 0.18 | 0.801 | 4.064 | 4.18 |
| 4.42 | 9.39 | 2.21 | 0.27 | 0.510 | 3.508 | 6.16 | 5.97 | 2.15 | 0.20 | 0.777 | 4.025 | 4.50 |
| 4.68 | 8.89 | 2.30 | 0.28 | 0.499 | 3.496 | 6.52 | 5.75 | 2.26 | 0.21 | 0.754 | 3.991 | 4.83 |
| 4.95 | 8.43 | 2.37 | 0.30 | 0.487 | 3.483 | 6.87 | 5.54 | 2.35 | 0.22 | 0.731 | 3.957 | 5.14 |
| 5.21 | 8.03 | 2.42 | 0.31 | 0.472 | 3.467 | 7.21 | 5.35 | 2.43 | 0.24 | 0.706 | 3.922 | 5.46 |
| 5.47 | 7.67 | 2.46 | 0.33 | 0.455 | 3.448 | 7.56 | 5.18 | 2.49 | 0.25 | 0.678 | 3.885 | 5.78 |
| 5.74 | 7.35 | 2.47 | 0.34 | 0.435 | 3.425 | 7.91 | 5.03 | 2.53 | 0.26 | 0.647 | 3.844 | 6.09 |
| 6.00 | 7.08 | 2.47 | 0.36 | 0.413 | 3.400 | 8.27 | 4.89 | 2.56 | 0.28 | 0.615 | 3.802 | 6.41 |



Simulation Info:

28/06/2019 08:48:54 pm

Input Data:

Ship Speed: from Vs1=1.00 m/s to Vs2=6.00 m/s (for 20 different Ship Speed values)

Ship Displacement: Disp=15.03 kp

Breadth at Chine: Bc=0.27 m

Deadrise Angle: b=30.00 deg

LCG: from LCG1=0.63 m to LCG2=0.75 m (for 3 different LCG values)

Fresh water properties at 15.00C:

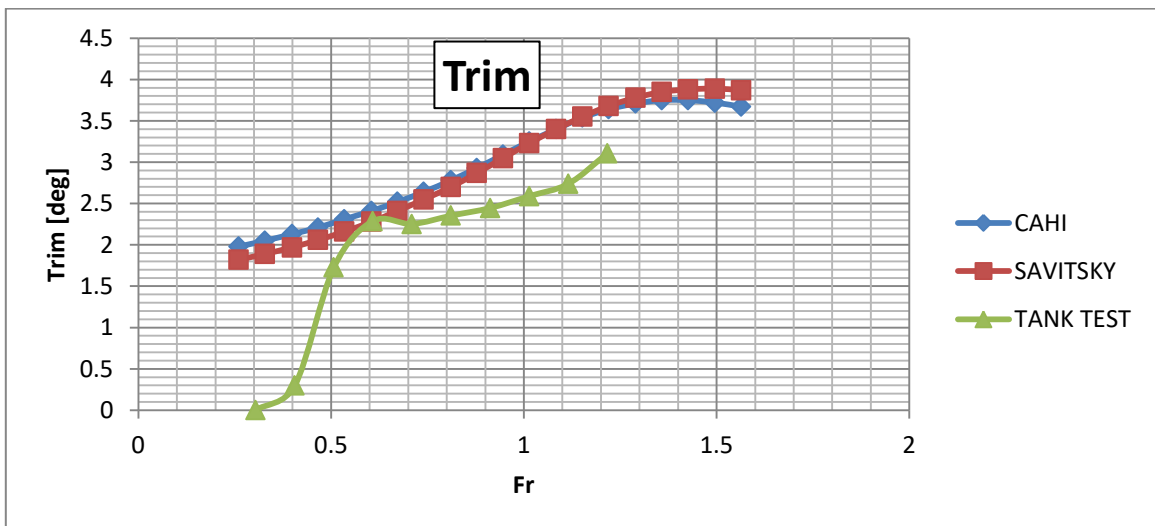
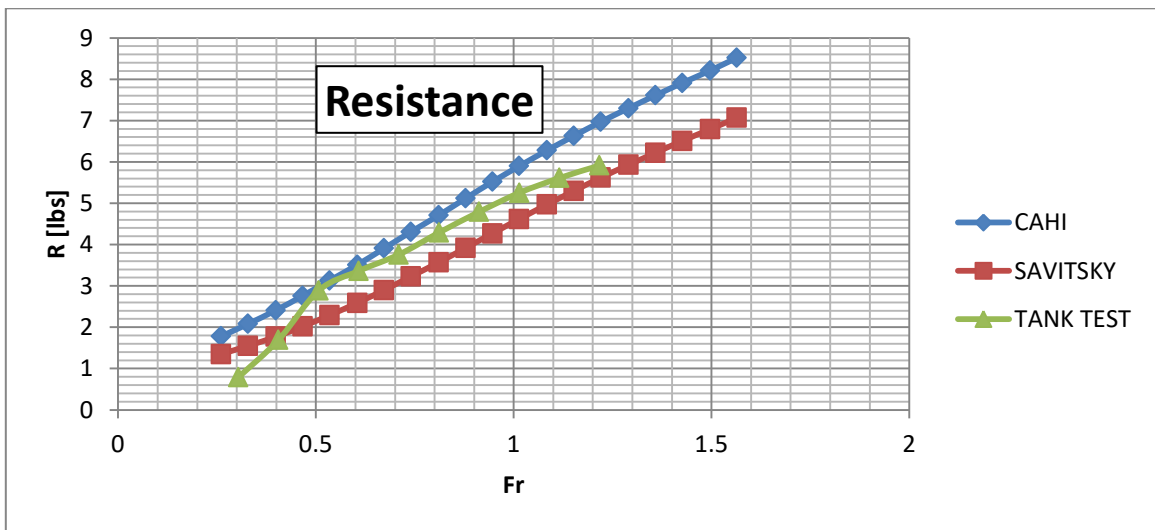
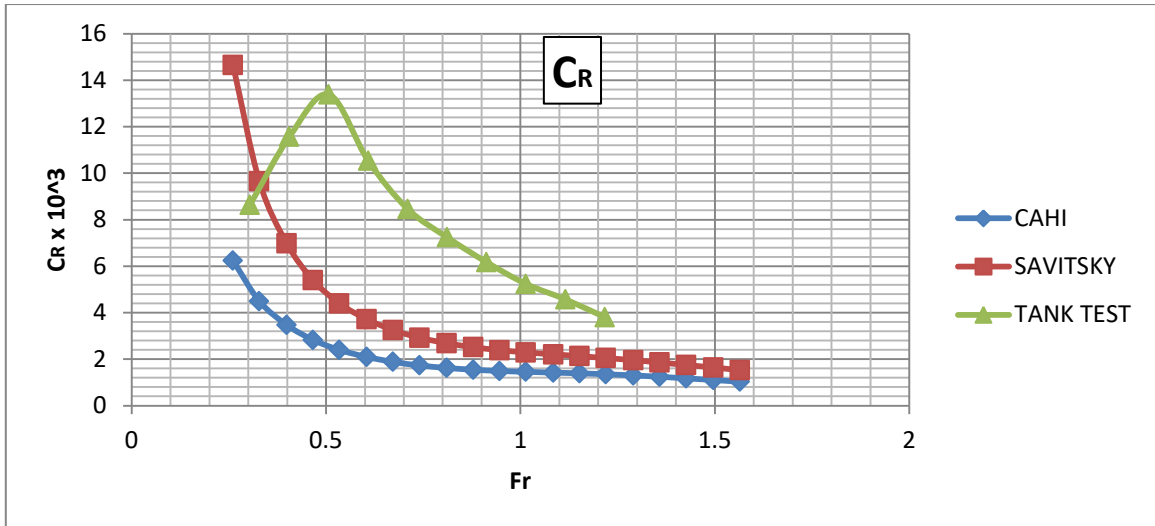
Density=999.00 kg/m³

Viscosity=1.13902*10⁻⁶ m²/s

Results:

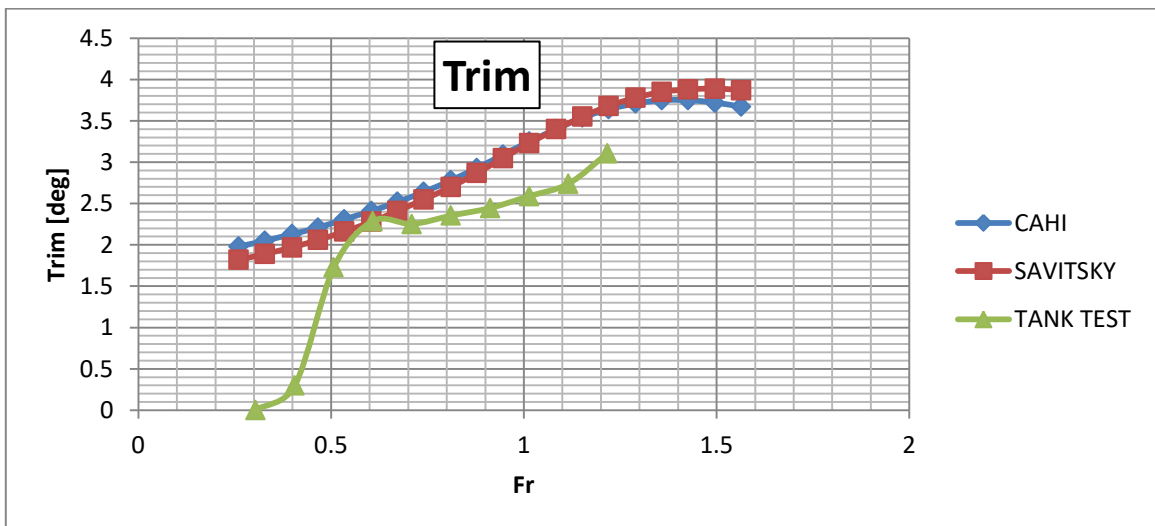
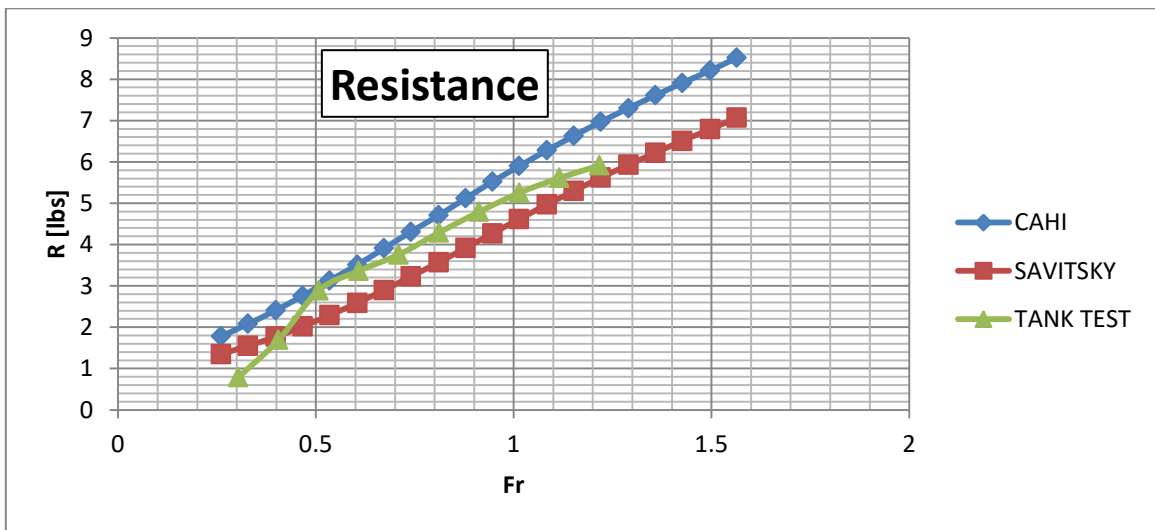
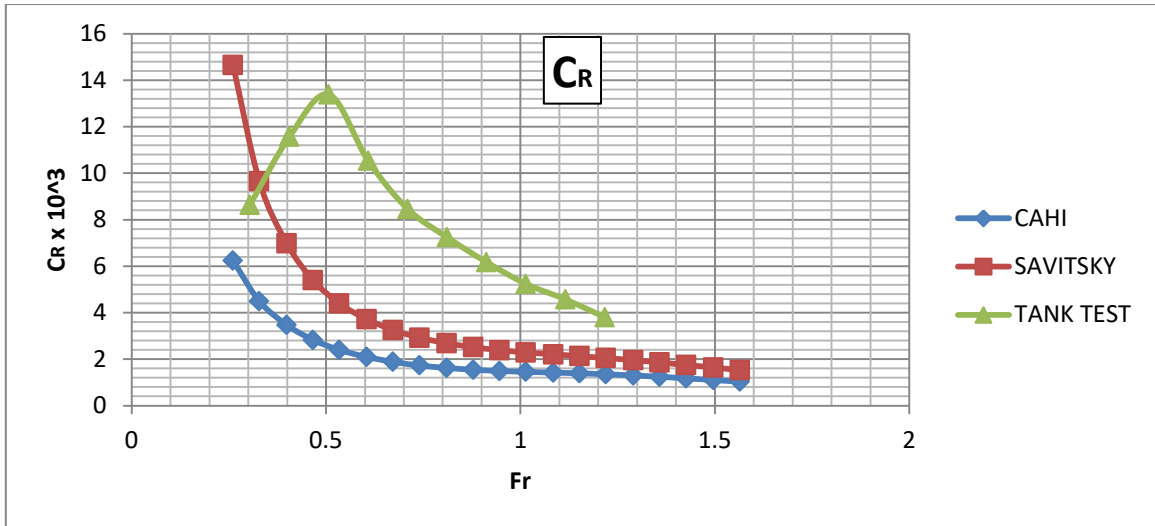
b=30.00 deg Bc=0.27 m Disp=15.03 kp LCG=0.63 m

| ~CAHI~ | | | | | | | ~SAVITSKY~ | | | | | |
|--------|-------|-------|------|-----------------|-----------------|-------|------------|-------|------|-----------------|-----------------|-------|
| Vs | Lamda | Trim | D/W | Cr | Ct | R | Lamda | Trim | D/W | Cr | Ct | R |
| [m/s] | - | [deg] | [%] | 10 ³ | 10 ³ | [lbs] | - | [deg] | [%] | 10 ³ | 10 ³ | [lbs] |
| 1.00 | 16.63 | 2.40 | 0.06 | 8.726 | 12.273 | 1.95 | 6.82 | 2.26 | 0.05 | 19.951 | 24.179 | 1.58 |
| 1.26 | 15.04 | 2.49 | 0.07 | 6.278 | 9.737 | 2.23 | 6.73 | 2.35 | 0.05 | 13.211 | 17.253 | 1.78 |
| 1.53 | 13.83 | 2.59 | 0.08 | 4.864 | 8.257 | 2.54 | 6.62 | 2.46 | 0.06 | 9.630 | 13.535 | 2.00 |
| 1.79 | 12.82 | 2.69 | 0.09 | 3.976 | 7.317 | 2.87 | 6.49 | 2.58 | 0.07 | 7.514 | 11.314 | 2.25 |
| 2.05 | 11.96 | 2.81 | 0.10 | 3.388 | 6.688 | 3.22 | 6.34 | 2.73 | 0.08 | 6.174 | 9.892 | 2.53 |
| 2.32 | 11.19 | 2.95 | 0.11 | 2.987 | 6.255 | 3.58 | 6.16 | 2.89 | 0.09 | 5.287 | 8.938 | 2.83 |
| 2.58 | 10.48 | 3.10 | 0.12 | 2.709 | 5.953 | 3.95 | 5.97 | 3.07 | 0.09 | 4.681 | 8.281 | 3.14 |
| 2.84 | 9.82 | 3.27 | 0.13 | 2.518 | 5.743 | 4.33 | 5.76 | 3.27 | 0.10 | 4.262 | 7.819 | 3.48 |
| 3.11 | 9.19 | 3.47 | 0.14 | 2.388 | 5.601 | 4.72 | 5.54 | 3.49 | 0.12 | 3.967 | 7.492 | 3.82 |
| 3.37 | 8.60 | 3.67 | 0.15 | 2.301 | 5.505 | 5.10 | 5.31 | 3.71 | 0.13 | 3.754 | 7.253 | 4.17 |
| 3.63 | 8.05 | 3.88 | 0.17 | 2.239 | 5.439 | 5.47 | 5.08 | 3.94 | 0.14 | 3.589 | 7.069 | 4.51 |
| 3.89 | 7.54 | 4.07 | 0.18 | 2.188 | 5.385 | 5.83 | 5.00 | 4.16 | 0.15 | 3.347 | 6.792 | 4.90 |
| 4.16 | 7.09 | 4.23 | 0.19 | 2.131 | 5.328 | 6.16 | 4.78 | 4.34 | 0.16 | 3.218 | 6.651 | 5.21 |
| 4.42 | 6.68 | 4.35 | 0.20 | 2.059 | 5.255 | 6.47 | 4.58 | 4.48 | 0.17 | 3.074 | 6.496 | 5.51 |
| 4.68 | 6.33 | 4.42 | 0.20 | 1.968 | 5.162 | 6.75 | 4.40 | 4.58 | 0.17 | 2.912 | 6.322 | 5.78 |
| 4.95 | 6.03 | 4.44 | 0.21 | 1.860 | 5.050 | 7.01 | 4.25 | 4.63 | 0.18 | 2.733 | 6.130 | 6.04 |
| 5.21 | 5.78 | 4.41 | 0.22 | 1.740 | 4.925 | 7.27 | 4.13 | 4.64 | 0.19 | 2.543 | 5.927 | 6.29 |
| 5.47 | 5.57 | 4.34 | 0.23 | 1.615 | 4.794 | 7.51 | 4.03 | 4.61 | 0.20 | 2.350 | 5.719 | 6.53 |
| 5.74 | 5.38 | 4.26 | 0.23 | 1.490 | 4.661 | 7.76 | 3.94 | 4.56 | 0.20 | 2.160 | 5.513 | 6.78 |
| 6.00 | 5.22 | 4.15 | 0.24 | 1.368 | 4.531 | 8.01 | 3.88 | 4.49 | 0.21 | 1.977 | 5.313 | 7.02 |



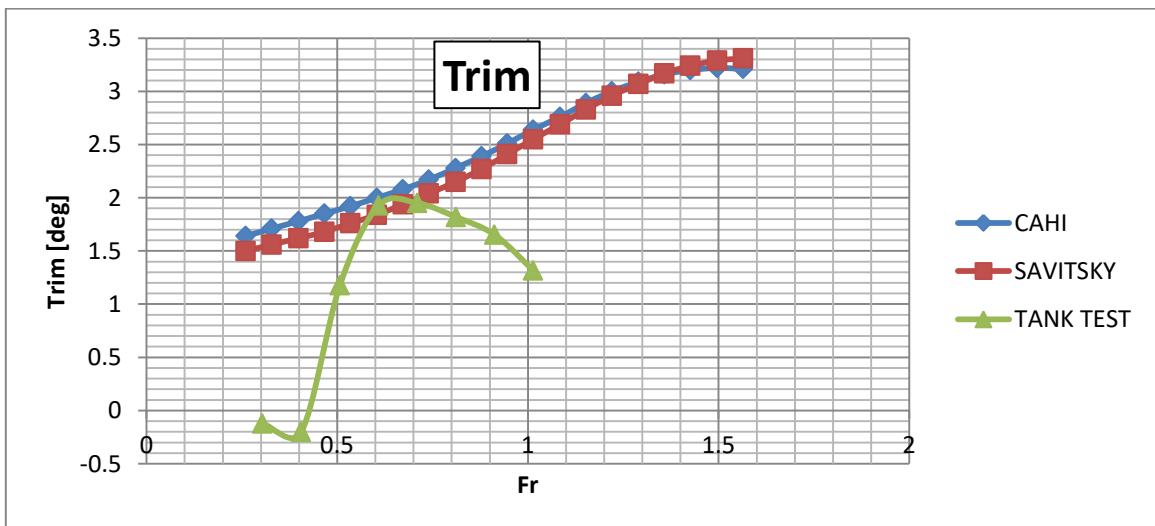
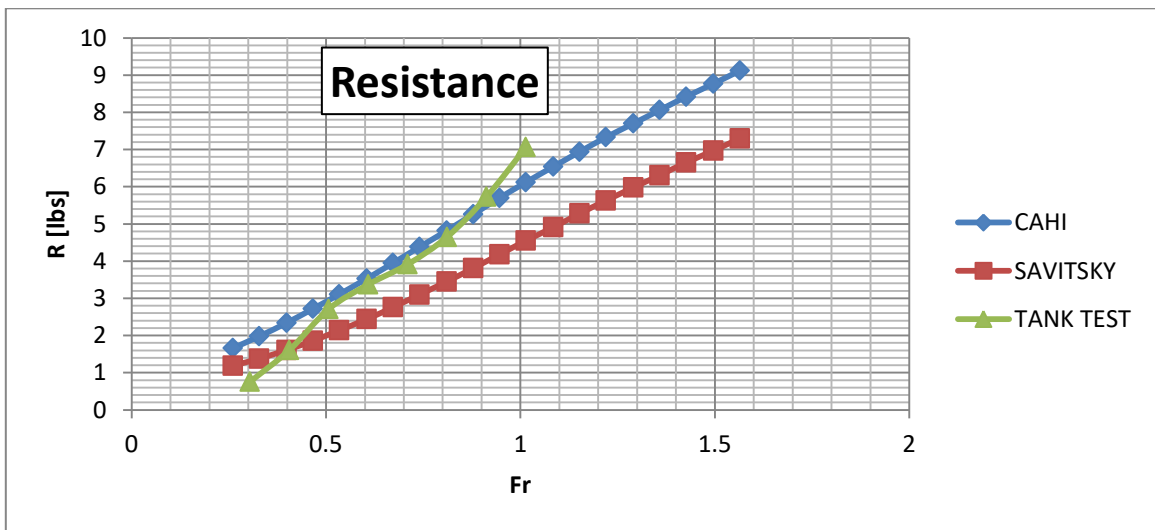
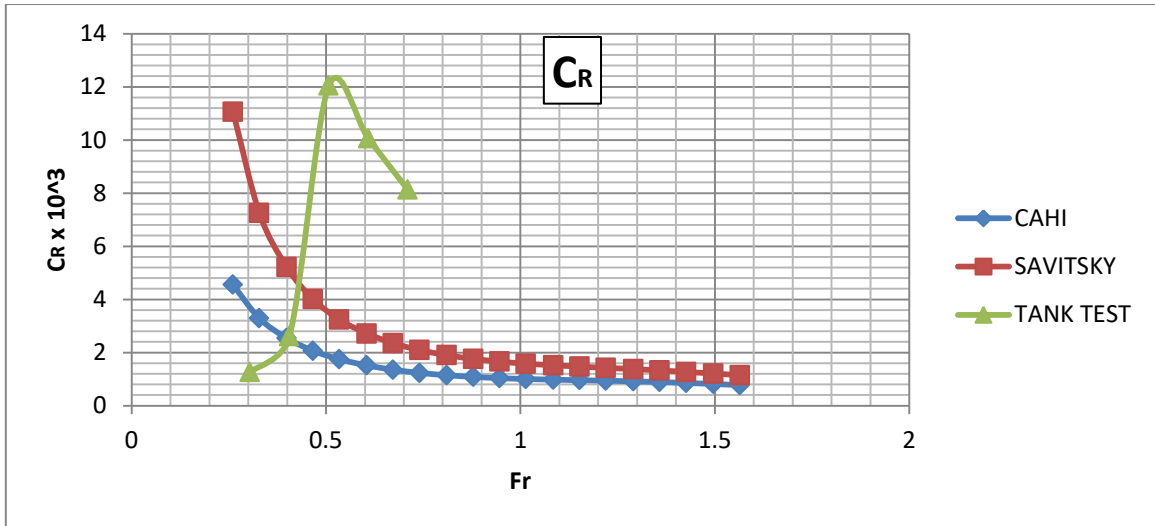
b=30.00 deg Bc=0.27 m Disp=15.03 kp LCG=0.69 m

| ~CAHI~ | | | | | | | ~SAVITSKY~ | | | | | |
|-------------|------------|---------------|------------|-----------------------|-----------------------|------------|------------|---------------|------------|-----------------------|-----------------------|------------|
| Vs [m/s] | Lamda - | Trim [deg] | D/W [%] | Cr 10 ³ | Ct 10 ³ | R [lbs] | Lamda - | Trim [deg] | D/W [%] | Cr 10 ³ | Ct 10 ³ | R [lbs] |
| 1.00 | 19.14 | 1.98 | 0.05 | 6.236 | 9.690 | 1.78 | 7.50 | 1.82 | 0.04 | 14.652 | 18.798 | 1.35 |
| 1.26 | 17.32 | 2.05 | 0.06 | 4.492 | 7.862 | 2.08 | 7.41 | 1.89 | 0.05 | 9.646 | 13.610 | 1.55 |
| 1.53 | 15.92 | 2.13 | 0.07 | 3.474 | 6.780 | 2.41 | 7.31 | 1.97 | 0.05 | 6.981 | 10.810 | 1.77 |
| 1.79 | 14.79 | 2.21 | 0.08 | 2.829 | 6.084 | 2.76 | 7.19 | 2.06 | 0.06 | 5.401 | 9.124 | 2.02 |
| 2.05 | 13.82 | 2.31 | 0.09 | 2.396 | 5.610 | 3.13 | 7.06 | 2.16 | 0.07 | 4.393 | 8.033 | 2.29 |
| 2.32 | 12.97 | 2.41 | 0.11 | 2.095 | 5.277 | 3.51 | 6.90 | 2.28 | 0.08 | 3.718 | 7.291 | 2.59 |
| 2.58 | 12.19 | 2.52 | 0.12 | 1.882 | 5.038 | 3.91 | 6.72 | 2.41 | 0.09 | 3.251 | 6.770 | 2.90 |
| 2.84 | 11.47 | 2.64 | 0.13 | 1.730 | 4.866 | 4.31 | 6.53 | 2.55 | 0.10 | 2.922 | 6.396 | 3.23 |
| 3.11 | 10.80 | 2.78 | 0.14 | 1.622 | 4.742 | 4.71 | 6.32 | 2.70 | 0.11 | 2.686 | 6.124 | 3.57 |
| 3.37 | 10.16 | 2.93 | 0.15 | 1.546 | 4.656 | 5.12 | 6.10 | 2.87 | 0.12 | 2.515 | 5.924 | 3.92 |
| 3.63 | 9.56 | 3.09 | 0.17 | 1.493 | 4.595 | 5.52 | 5.87 | 3.05 | 0.13 | 2.389 | 5.775 | 4.27 |
| 3.89 | 8.99 | 3.25 | 0.18 | 1.455 | 4.552 | 5.90 | 5.64 | 3.23 | 0.14 | 2.291 | 5.660 | 4.62 |
| 4.16 | 8.46 | 3.40 | 0.19 | 1.423 | 4.518 | 6.28 | 5.41 | 3.40 | 0.15 | 2.209 | 5.562 | 4.97 |
| 4.42 | 7.98 | 3.54 | 0.20 | 1.390 | 4.484 | 6.63 | 5.20 | 3.55 | 0.16 | 2.130 | 5.471 | 5.30 |
| 4.68 | 7.55 | 3.64 | 0.21 | 1.351 | 4.444 | 6.97 | 5.00 | 3.68 | 0.17 | 2.047 | 5.377 | 5.62 |
| 4.95 | 7.17 | 3.71 | 0.22 | 1.301 | 4.394 | 7.30 | 4.82 | 3.78 | 0.18 | 1.957 | 5.275 | 5.93 |
| 5.21 | 6.84 | 3.75 | 0.23 | 1.242 | 4.332 | 7.61 | 4.66 | 3.85 | 0.19 | 1.857 | 5.165 | 6.22 |
| 5.47 | 6.55 | 3.75 | 0.24 | 1.175 | 4.262 | 7.91 | 4.52 | 3.88 | 0.20 | 1.751 | 5.047 | 6.51 |
| 5.74 | 6.31 | 3.72 | 0.25 | 1.103 | 4.185 | 8.21 | 4.41 | 3.89 | 0.20 | 1.641 | 4.925 | 6.79 |
| 6.00 | 6.10 | 3.67 | 0.26 | 1.029 | 4.105 | 8.52 | 4.30 | 3.87 | 0.21 | 1.530 | 4.802 | 7.07 |



b=30.00 deg Bc=0.27 m Disp=15.03 kp LCG=0.75 m

| ~CAHI~ | | | | | | | ~SAVITSKY~ | | | | | |
|-------------|------------|---------------|------------|-----------------------|-----------------------|------------|------------|---------------|------------|-----------------------|-----------------------|------------|
| Vs [m/s] | Lamda - | Trim [deg] | D/W [%] | Cr 10 ³ | Ct 10 ³ | R [lbs] | Lamda - | Trim [deg] | D/W [%] | Cr 10 ³ | Ct 10 ³ | R [lbs] |
| 1.00 | 21.80 | 1.64 | 0.05 | 4.549 | 7.920 | 1.66 | 8.17 | 1.50 | 0.04 | 11.062 | 15.135 | 1.19 |
| 1.26 | 19.72 | 1.71 | 0.06 | 3.286 | 6.576 | 1.98 | 8.10 | 1.56 | 0.04 | 7.251 | 11.146 | 1.38 |
| 1.53 | 18.14 | 1.78 | 0.07 | 2.542 | 5.770 | 2.34 | 8.00 | 1.62 | 0.05 | 5.219 | 8.980 | 1.61 |
| 1.79 | 16.86 | 1.85 | 0.08 | 2.066 | 5.245 | 2.72 | 7.89 | 1.68 | 0.06 | 4.011 | 7.668 | 1.86 |
| 2.05 | 15.78 | 1.92 | 0.09 | 1.744 | 4.882 | 3.11 | 7.77 | 1.76 | 0.06 | 3.237 | 6.811 | 2.14 |
| 2.32 | 14.84 | 2.00 | 0.11 | 1.517 | 4.623 | 3.53 | 7.62 | 1.84 | 0.07 | 2.716 | 6.222 | 2.44 |
| 2.58 | 13.99 | 2.08 | 0.12 | 1.353 | 4.433 | 3.95 | 7.46 | 1.94 | 0.08 | 2.352 | 5.802 | 2.76 |
| 2.84 | 13.21 | 2.17 | 0.13 | 1.234 | 4.292 | 4.38 | 7.28 | 2.04 | 0.09 | 2.091 | 5.495 | 3.10 |
| 3.11 | 12.48 | 2.28 | 0.15 | 1.146 | 4.188 | 4.82 | 7.08 | 2.15 | 0.10 | 1.901 | 5.267 | 3.45 |
| 3.37 | 11.79 | 2.39 | 0.16 | 1.083 | 4.111 | 5.26 | 6.87 | 2.27 | 0.12 | 1.762 | 5.096 | 3.81 |
| 3.63 | 11.14 | 2.51 | 0.17 | 1.037 | 4.056 | 5.70 | 6.65 | 2.41 | 0.13 | 1.659 | 4.967 | 4.18 |
| 3.89 | 10.52 | 2.64 | 0.18 | 1.004 | 4.016 | 6.12 | 6.43 | 2.55 | 0.14 | 1.581 | 4.869 | 4.55 |
| 4.16 | 9.94 | 2.76 | 0.20 | 0.979 | 3.987 | 6.54 | 6.19 | 2.69 | 0.15 | 1.521 | 4.791 | 4.91 |
| 4.42 | 9.39 | 2.89 | 0.21 | 0.959 | 3.965 | 6.94 | 5.97 | 2.83 | 0.16 | 1.470 | 4.727 | 5.28 |
| 4.68 | 8.89 | 3.00 | 0.22 | 0.939 | 3.944 | 7.33 | 5.75 | 2.96 | 0.17 | 1.424 | 4.669 | 5.63 |
| 4.95 | 8.43 | 3.09 | 0.23 | 0.916 | 3.920 | 7.70 | 5.54 | 3.07 | 0.18 | 1.377 | 4.611 | 5.98 |
| 5.21 | 8.03 | 3.16 | 0.24 | 0.888 | 3.891 | 8.06 | 5.35 | 3.17 | 0.19 | 1.326 | 4.551 | 6.31 |
| 5.47 | 7.67 | 3.20 | 0.25 | 0.855 | 3.856 | 8.42 | 5.18 | 3.24 | 0.20 | 1.270 | 4.485 | 6.65 |
| 5.74 | 7.35 | 3.22 | 0.26 | 0.816 | 3.814 | 8.77 | 5.03 | 3.29 | 0.21 | 1.210 | 4.415 | 6.97 |
| 6.00 | 7.08 | 3.21 | 0.28 | 0.773 | 3.768 | 9.12 | 4.89 | 3.31 | 0.22 | 1.146 | 4.341 | 7.30 |



Simulation Info:

28/06/2019 09:23:22 pm

Input Data:

Ship Speed: from Vs1=1.00 m/s to Vs2=6.00 m/s (for 20 different Ship Speed values)

Ship Displacement: Disp=24.21 kp

Breadth at Chine: Bc=0.27 m

Deadrise Angle: b=30.00 deg

LCG: from LCG1=0.63 m to LCG2=0.75 m (for 3 different LCG values)

Fresh water properties at 15.00C:

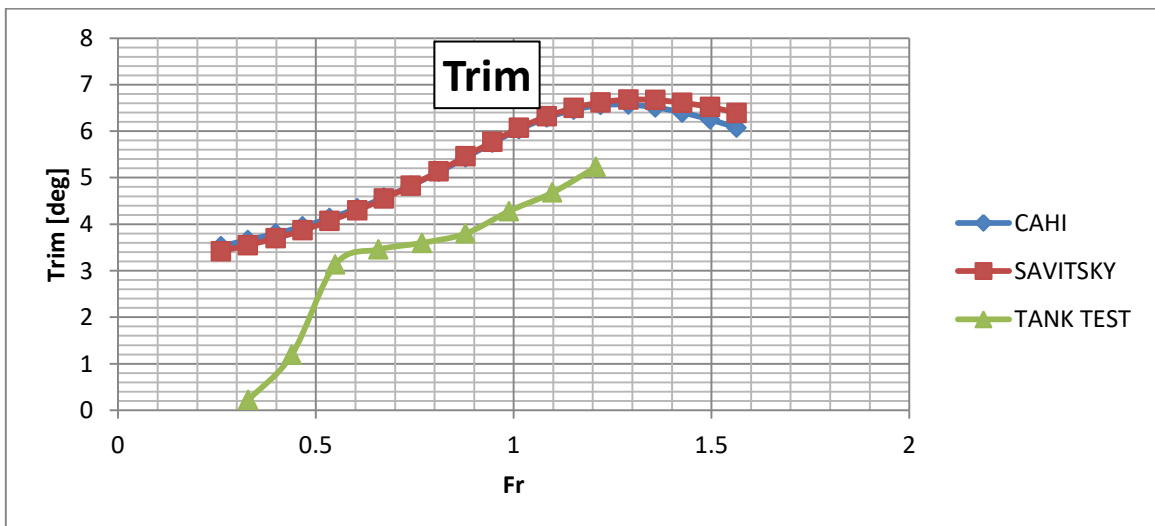
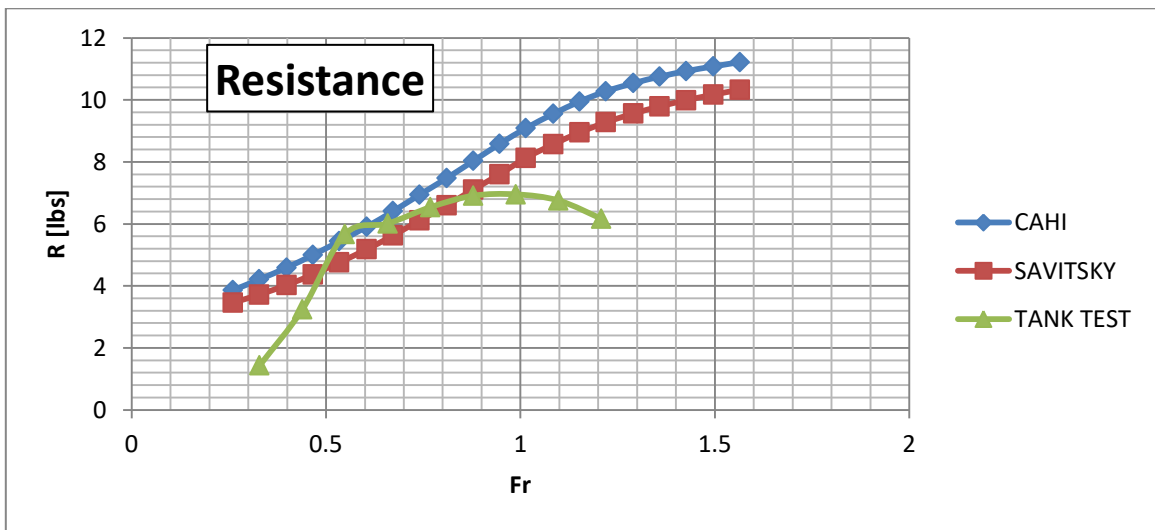
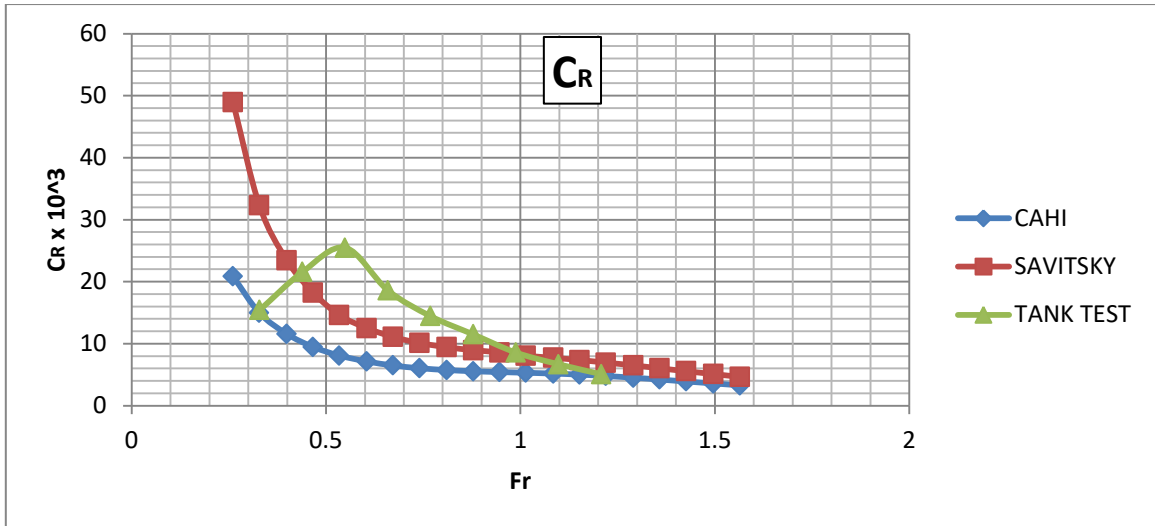
Density=999.00 kg/m³

Viscosity=1.13902*10⁻⁶ m²/s

Results:

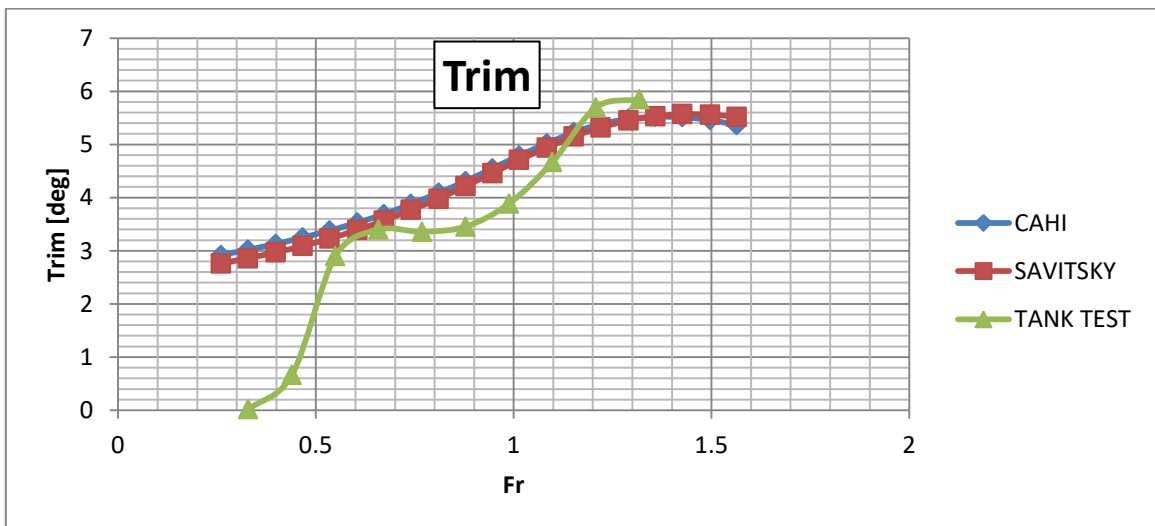
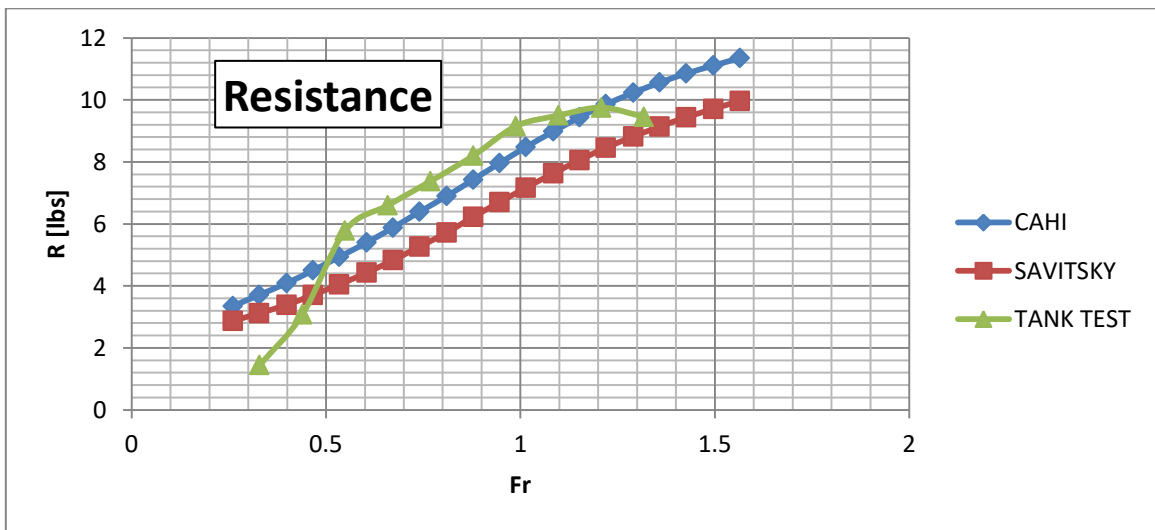
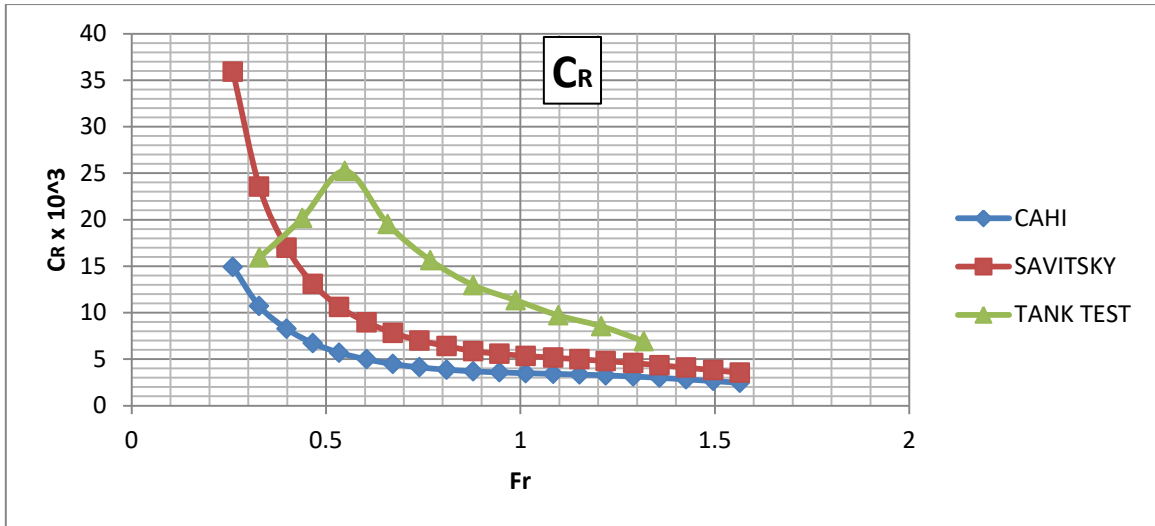
b=30.00 deg Bc=0.27 m Disp=24.21 kp LCG=0.63 m

| ~CAHI~ | | | | | | | ~SAVITSKY~ | | | | | |
|--------|-------|-------|------|-----------------|-----------------|-------|------------|-------|------|-----------------|-----------------|-------|
| Vs | Lamda | Trim | D/W | Cr | Ct | R | Lamda | Trim | D/W | Cr | Ct | R |
| [m/s] | - | [deg] | [%] | 10 ³ | 10 ³ | [lbs] | - | [deg] | [%] | 10 ³ | 10 ³ | [lbs] |
| 1.00 | 16.63 | 3.53 | 0.07 | 20.846 | 24.395 | 3.86 | 6.82 | 3.42 | 0.06 | 48.955 | 53.185 | 3.46 |
| 1.26 | 15.04 | 3.66 | 0.08 | 14.963 | 18.424 | 4.21 | 6.73 | 3.55 | 0.07 | 32.301 | 36.345 | 3.72 |
| 1.53 | 13.83 | 3.80 | 0.09 | 11.584 | 14.979 | 4.59 | 6.62 | 3.70 | 0.08 | 23.467 | 27.374 | 4.03 |
| 1.79 | 12.82 | 3.95 | 0.09 | 9.472 | 12.815 | 5.00 | 6.49 | 3.87 | 0.08 | 18.253 | 22.055 | 4.37 |
| 2.05 | 11.96 | 4.13 | 0.10 | 8.080 | 11.382 | 5.44 | 6.49 | 4.07 | 0.09 | 14.601 | 18.303 | 4.76 |
| 2.32 | 11.19 | 4.34 | 0.11 | 7.134 | 10.405 | 5.91 | 6.30 | 4.30 | 0.10 | 12.503 | 16.142 | 5.18 |
| 2.58 | 10.48 | 4.57 | 0.12 | 6.485 | 9.731 | 6.41 | 6.08 | 4.55 | 0.11 | 11.080 | 14.670 | 5.63 |
| 2.84 | 9.82 | 4.83 | 0.13 | 6.042 | 9.270 | 6.94 | 5.84 | 4.83 | 0.11 | 10.103 | 13.655 | 6.11 |
| 3.11 | 9.19 | 5.12 | 0.14 | 5.746 | 8.962 | 7.48 | 5.59 | 5.14 | 0.12 | 9.427 | 12.950 | 6.60 |
| 3.37 | 8.60 | 5.43 | 0.15 | 5.552 | 8.759 | 8.03 | 5.33 | 5.46 | 0.13 | 8.951 | 12.451 | 7.11 |
| 3.63 | 8.05 | 5.75 | 0.16 | 5.419 | 8.622 | 8.58 | 5.07 | 5.77 | 0.14 | 8.592 | 12.077 | 7.60 |
| 3.89 | 7.54 | 6.04 | 0.17 | 5.306 | 8.507 | 9.09 | 4.95 | 6.07 | 0.15 | 8.060 | 11.516 | 8.13 |
| 4.16 | 7.09 | 6.29 | 0.18 | 5.177 | 8.378 | 9.55 | 4.73 | 6.32 | 0.16 | 7.722 | 11.166 | 8.57 |
| 4.42 | 6.68 | 6.46 | 0.19 | 5.006 | 8.206 | 9.95 | 4.53 | 6.50 | 0.17 | 7.354 | 10.786 | 8.95 |
| 4.68 | 6.33 | 6.56 | 0.19 | 4.784 | 7.981 | 10.28 | 4.36 | 6.62 | 0.17 | 6.943 | 10.363 | 9.28 |
| 4.95 | 6.03 | 6.57 | 0.20 | 4.515 | 7.709 | 10.54 | 4.22 | 6.68 | 0.18 | 6.496 | 9.904 | 9.56 |
| 5.21 | 5.78 | 6.51 | 0.20 | 4.215 | 7.404 | 10.75 | 4.09 | 6.67 | 0.18 | 6.028 | 9.421 | 9.79 |
| 5.47 | 5.57 | 6.40 | 0.20 | 3.900 | 7.083 | 10.93 | 3.99 | 6.61 | 0.19 | 5.554 | 8.932 | 9.99 |
| 5.74 | 5.38 | 6.25 | 0.21 | 3.585 | 6.760 | 11.08 | 3.91 | 6.52 | 0.19 | 5.091 | 8.453 | 10.17 |
| 6.00 | 5.22 | 6.07 | 0.21 | 3.279 | 6.447 | 11.22 | 3.84 | 6.39 | 0.19 | 4.648 | 7.993 | 10.33 |



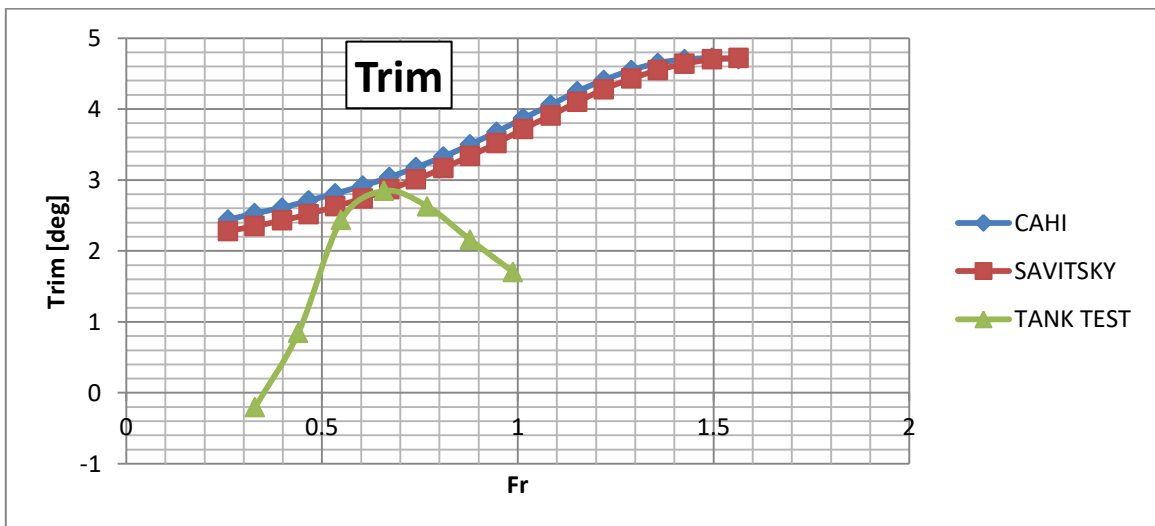
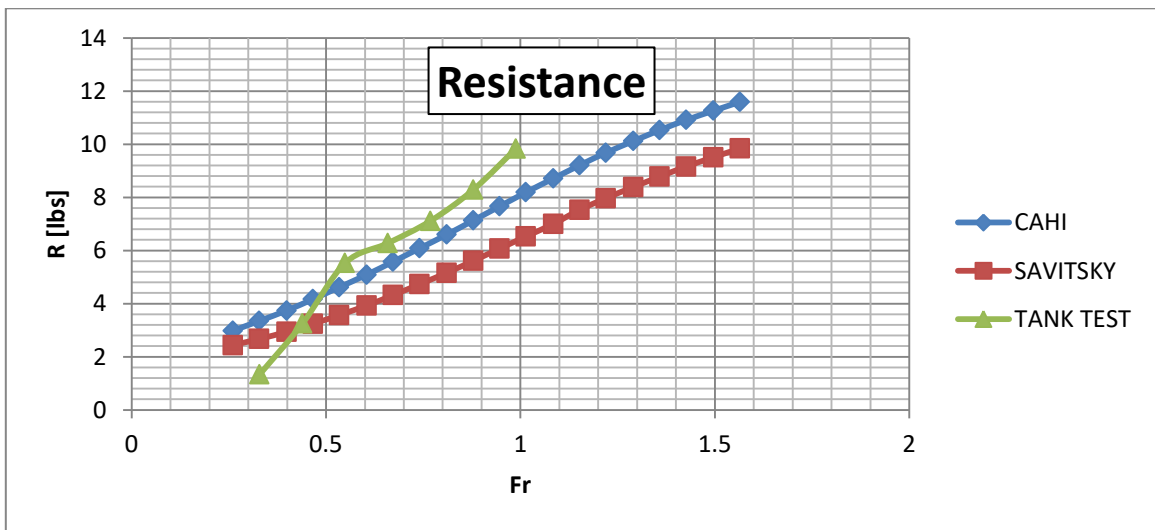
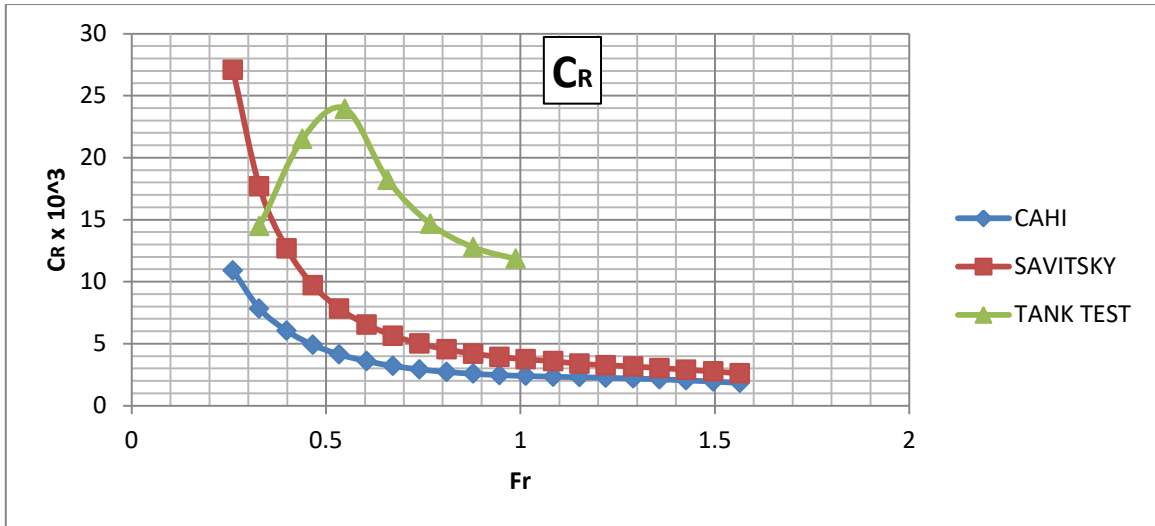
b=30.00 deg Bc=0.27 m Disp=24.21 kp LCG=0.69 m

| ~CAHI~ | | | | | | | ~SAVITSKY~ | | | | | |
|-------------|------------|---------------|------------|-----------------------|-----------------------|------------|------------|---------------|------------|-----------------------|-----------------------|------------|
| Vs [m/s] | Lamda - | Trim [deg] | D/W [%] | Cr 10 ³ | Ct 10 ³ | R [lbs] | Lamda - | Trim [deg] | D/W [%] | Cr 10 ³ | Ct 10 ³ | R [lbs] |
| 1.00 | 19.14 | 2.92 | 0.06 | 14.903 | 18.359 | 3.35 | 7.50 | 2.76 | 0.05 | 35.900 | 40.047 | 2.87 |
| 1.26 | 17.32 | 3.02 | 0.07 | 10.692 | 14.063 | 3.71 | 7.41 | 2.86 | 0.06 | 23.549 | 27.514 | 3.12 |
| 1.53 | 15.92 | 3.13 | 0.08 | 8.252 | 11.559 | 4.09 | 7.31 | 2.97 | 0.06 | 16.984 | 20.814 | 3.39 |
| 1.79 | 14.79 | 3.25 | 0.08 | 6.713 | 9.969 | 4.50 | 7.19 | 3.09 | 0.07 | 13.095 | 16.820 | 3.71 |
| 2.05 | 13.82 | 3.38 | 0.09 | 5.686 | 8.902 | 4.94 | 7.06 | 3.23 | 0.08 | 10.617 | 14.259 | 4.05 |
| 2.32 | 12.97 | 3.53 | 0.10 | 4.976 | 8.159 | 5.40 | 6.90 | 3.39 | 0.08 | 8.959 | 12.534 | 4.43 |
| 2.58 | 12.19 | 3.69 | 0.11 | 4.475 | 7.632 | 5.88 | 6.72 | 3.57 | 0.09 | 7.811 | 11.331 | 4.83 |
| 2.84 | 11.47 | 3.88 | 0.12 | 4.119 | 7.257 | 6.39 | 6.53 | 3.77 | 0.10 | 6.998 | 10.474 | 5.27 |
| 3.11 | 10.80 | 4.09 | 0.13 | 3.869 | 6.992 | 6.90 | 6.32 | 3.98 | 0.11 | 6.415 | 9.855 | 5.72 |
| 3.37 | 10.16 | 4.31 | 0.14 | 3.696 | 6.807 | 7.43 | 6.24 | 4.22 | 0.12 | 5.859 | 9.256 | 6.23 |
| 3.63 | 9.56 | 4.55 | 0.15 | 3.577 | 6.681 | 7.96 | 5.98 | 4.46 | 0.13 | 5.569 | 8.946 | 6.70 |
| 3.89 | 8.99 | 4.79 | 0.16 | 3.492 | 6.592 | 8.48 | 5.73 | 4.71 | 0.13 | 5.347 | 8.708 | 7.17 |
| 4.16 | 8.46 | 5.02 | 0.17 | 3.421 | 6.519 | 8.98 | 5.48 | 4.94 | 0.14 | 5.160 | 8.508 | 7.63 |
| 4.42 | 7.98 | 5.23 | 0.18 | 3.347 | 6.444 | 9.44 | 5.24 | 5.15 | 0.15 | 4.981 | 8.319 | 8.06 |
| 4.68 | 7.55 | 5.38 | 0.18 | 3.253 | 6.350 | 9.86 | 5.03 | 5.32 | 0.16 | 4.790 | 8.119 | 8.46 |
| 4.95 | 7.17 | 5.48 | 0.19 | 3.134 | 6.229 | 10.23 | 4.84 | 5.45 | 0.17 | 4.577 | 7.897 | 8.82 |
| 5.21 | 6.84 | 5.52 | 0.20 | 2.989 | 6.082 | 10.56 | 4.67 | 5.53 | 0.17 | 4.340 | 7.650 | 9.14 |
| 5.47 | 6.55 | 5.51 | 0.20 | 2.823 | 5.912 | 10.85 | 4.53 | 5.57 | 0.18 | 4.083 | 7.382 | 9.44 |
| 5.74 | 6.31 | 5.46 | 0.21 | 2.643 | 5.728 | 11.11 | 4.41 | 5.56 | 0.18 | 3.815 | 7.101 | 9.71 |
| 6.00 | 6.10 | 5.36 | 0.21 | 2.459 | 5.538 | 11.35 | 4.31 | 5.52 | 0.19 | 3.543 | 6.816 | 9.97 |



b=30.00 deg Bc=0.27 m Disp=24.21 kp LCG=0.75 m

| ~CAHI~ | | | | | | | ~SAVITSKY~ | | | | | |
|-------------|------------|---------------|------------|-----------------------|-----------------------|------------|------------|---------------|------------|-----------------------|-----------------------|------------|
| Vs [m/s] | Lamda - | Trim [deg] | D/W [%] | Cr 10 ³ | Ct 10 ³ | R [lbs] | Lamda - | Trim [deg] | D/W [%] | Cr 10 ³ | Ct 10 ³ | R [lbs] |
| 1.00 | 21.80 | 2.44 | 0.06 | 10.905 | 14.277 | 2.98 | 8.17 | 2.28 | 0.05 | 27.076 | 31.150 | 2.44 |
| 1.26 | 19.72 | 2.53 | 0.06 | 7.830 | 11.121 | 3.35 | 8.10 | 2.35 | 0.05 | 17.682 | 21.578 | 2.67 |
| 1.53 | 18.14 | 2.61 | 0.07 | 6.036 | 9.265 | 3.74 | 8.00 | 2.43 | 0.06 | 12.682 | 16.445 | 2.94 |
| 1.79 | 16.86 | 2.71 | 0.08 | 4.895 | 8.075 | 4.17 | 7.89 | 2.52 | 0.06 | 9.713 | 13.371 | 3.24 |
| 2.05 | 15.78 | 2.81 | 0.09 | 4.127 | 7.267 | 4.62 | 7.77 | 2.63 | 0.07 | 7.814 | 11.389 | 3.57 |
| 2.32 | 14.84 | 2.92 | 0.10 | 3.589 | 6.696 | 5.09 | 7.62 | 2.74 | 0.07 | 6.535 | 10.042 | 3.93 |
| 2.58 | 13.99 | 3.04 | 0.10 | 3.203 | 6.284 | 5.58 | 7.46 | 2.87 | 0.08 | 5.641 | 9.092 | 4.32 |
| 2.84 | 13.21 | 3.18 | 0.11 | 2.923 | 5.982 | 6.08 | 7.28 | 3.01 | 0.09 | 5.000 | 8.405 | 4.73 |
| 3.11 | 12.48 | 3.33 | 0.12 | 2.718 | 5.761 | 6.60 | 7.08 | 3.17 | 0.10 | 4.533 | 7.900 | 5.16 |
| 3.37 | 11.79 | 3.50 | 0.13 | 2.571 | 5.600 | 7.13 | 6.87 | 3.34 | 0.11 | 4.189 | 7.524 | 5.61 |
| 3.63 | 11.14 | 3.68 | 0.14 | 2.465 | 5.486 | 7.66 | 6.65 | 3.52 | 0.11 | 3.932 | 7.242 | 6.07 |
| 3.89 | 10.52 | 3.87 | 0.15 | 2.390 | 5.404 | 8.19 | 6.43 | 3.72 | 0.12 | 3.738 | 7.027 | 6.53 |
| 4.16 | 9.94 | 4.06 | 0.16 | 2.336 | 5.346 | 8.71 | 6.19 | 3.91 | 0.13 | 3.586 | 6.858 | 7.00 |
| 4.42 | 9.39 | 4.25 | 0.17 | 2.290 | 5.298 | 9.21 | 6.12 | 4.10 | 0.14 | 3.373 | 6.617 | 7.53 |
| 4.68 | 8.89 | 4.41 | 0.18 | 2.245 | 5.252 | 9.68 | 5.88 | 4.28 | 0.15 | 3.264 | 6.498 | 7.97 |
| 4.95 | 8.43 | 4.55 | 0.19 | 2.191 | 5.197 | 10.12 | 5.66 | 4.43 | 0.16 | 3.154 | 6.378 | 8.39 |
| 5.21 | 8.03 | 4.65 | 0.20 | 2.124 | 5.129 | 10.53 | 5.46 | 4.55 | 0.16 | 3.034 | 6.250 | 8.78 |
| 5.47 | 7.67 | 4.70 | 0.20 | 2.041 | 5.045 | 10.91 | 5.28 | 4.64 | 0.17 | 2.901 | 6.108 | 9.16 |
| 5.74 | 7.35 | 4.72 | 0.21 | 1.945 | 4.947 | 11.26 | 5.12 | 4.70 | 0.18 | 2.757 | 5.955 | 9.51 |
| 6.00 | 7.08 | 4.70 | 0.22 | 1.840 | 4.838 | 11.59 | 4.98 | 4.72 | 0.18 | 2.604 | 5.791 | 9.84 |



Simulation Info:

28/06/2019 08:49:25 pm

Input Data:

Ship Speed: from Vs1=1.00 m/s to Vs2=6.00 m/s (for 20 different Ship Speed values)

Ship Displacement: Disp=7.27 kp

Breadth at Chine: Bc=0.21 m

Deadrise Angle: b=30.00 deg

LCG: from LCG1=0.63 m to LCG2=0.75 m (for 3 different LCG values)

Fresh water properties at 15.50C:

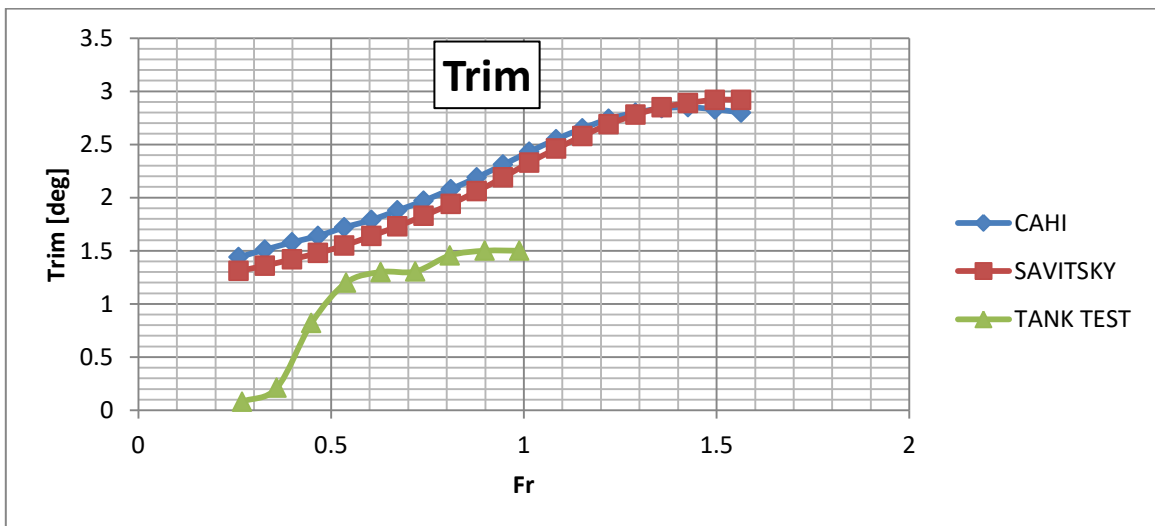
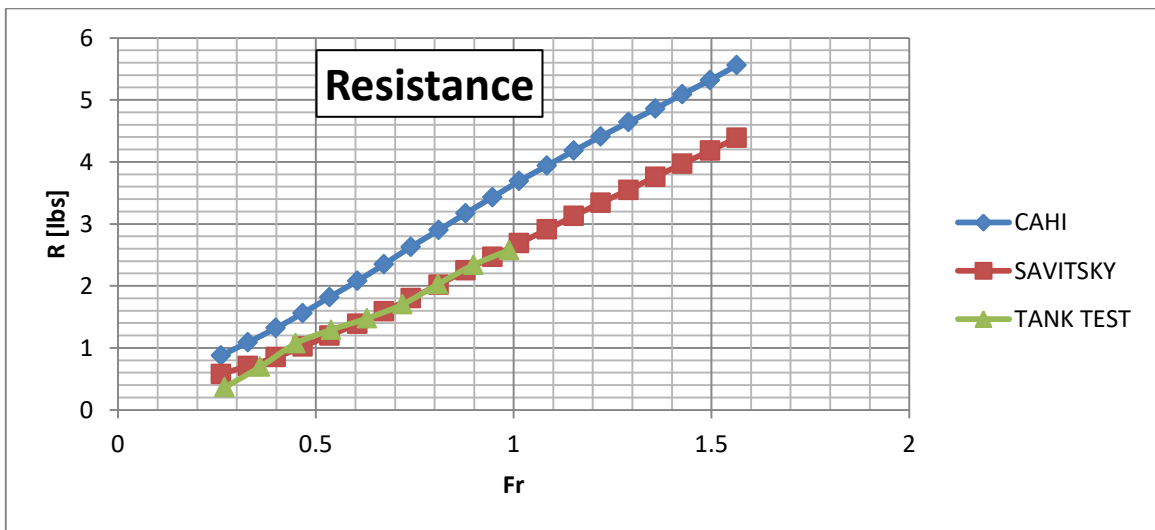
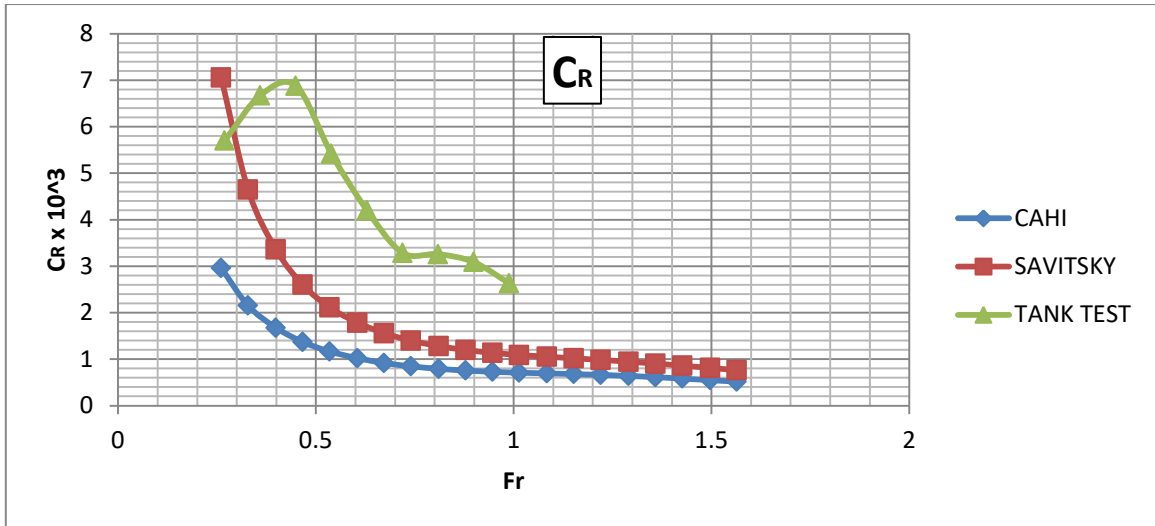
Density=998.95 kg/m³

Viscosity=1.12417*10⁻⁶ m²/s

Results:

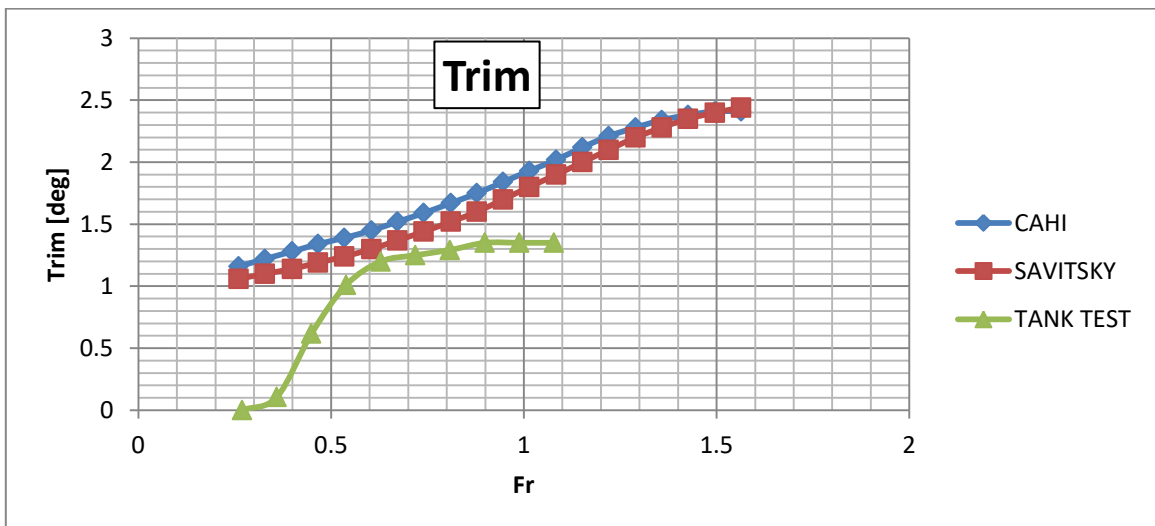
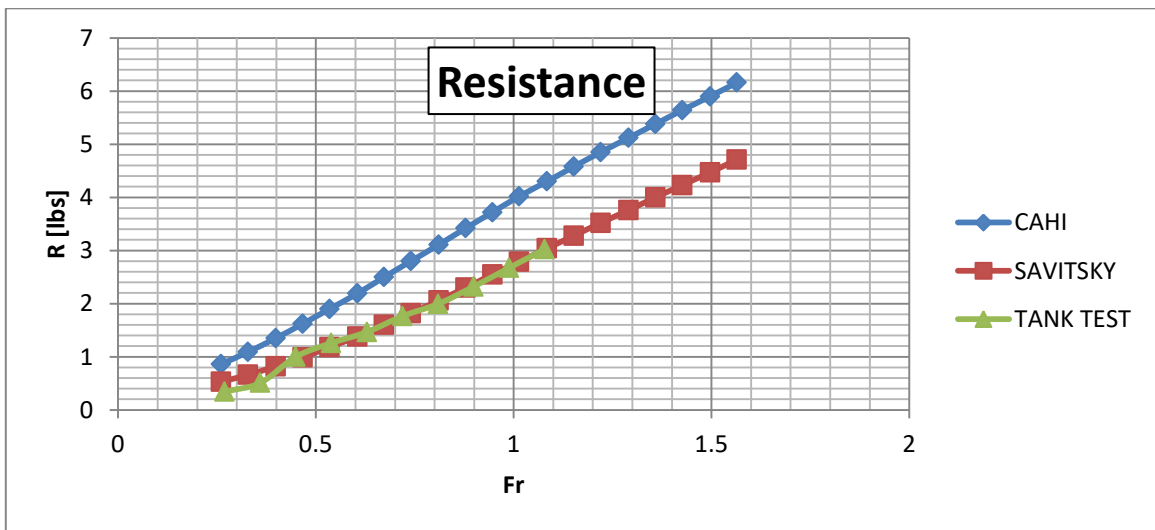
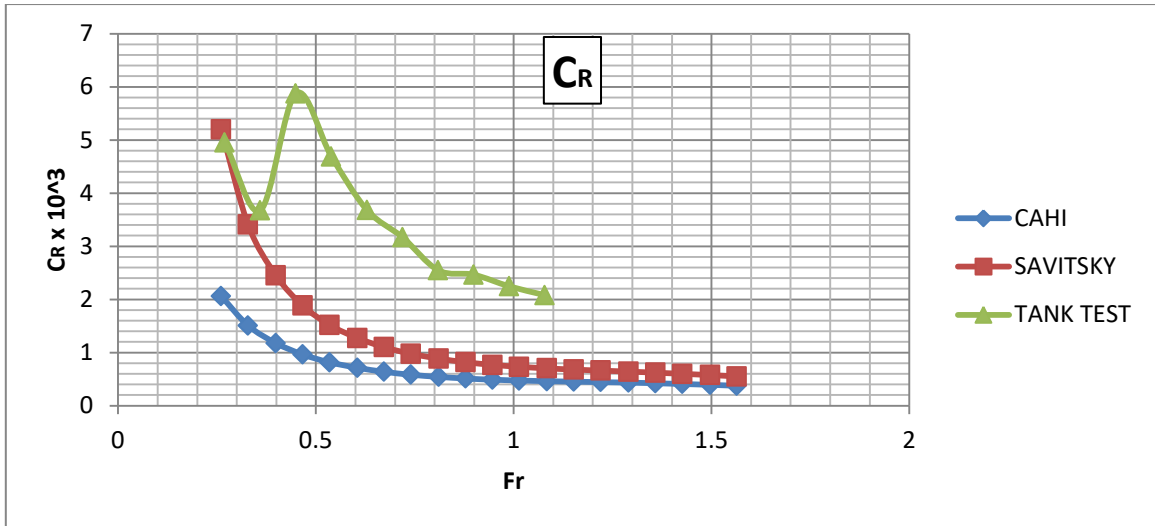
b=30.00 deg Bc=0.21 m Disp=7.27 kp LCG=0.63 m

| ~CAHI~ | | | | | | | ~SAVITSKY~ | | | | | |
|--------|-------|-------|------|-----------------|-----------------|-------|------------|-------|------|-----------------|-----------------|-------|
| Vs | Lamda | Trim | D/W | Cr | Ct | R | Lamda | Trim | D/W | Cr | Ct | R |
| [m/s] | - | [deg] | [%] | 10 ³ | 10 ³ | [lbs] | - | [deg] | [%] | 10 ³ | 10 ³ | [lbs] |
| 1.00 | 22.99 | 1.44 | 0.05 | 2.959 | 6.441 | 0.88 | 8.72 | 1.31 | 0.04 | 7.055 | 11.266 | 0.58 |
| 1.26 | 20.76 | 1.51 | 0.07 | 2.152 | 5.550 | 1.09 | 8.63 | 1.36 | 0.04 | 4.647 | 8.671 | 0.71 |
| 1.53 | 19.07 | 1.58 | 0.08 | 1.676 | 5.010 | 1.32 | 8.52 | 1.42 | 0.05 | 3.363 | 7.248 | 0.85 |
| 1.79 | 17.69 | 1.64 | 0.10 | 1.371 | 4.654 | 1.56 | 8.39 | 1.48 | 0.06 | 2.601 | 6.378 | 1.02 |
| 2.05 | 16.52 | 1.72 | 0.11 | 1.166 | 4.408 | 1.82 | 8.24 | 1.55 | 0.07 | 2.114 | 5.805 | 1.20 |
| 2.32 | 15.49 | 1.79 | 0.13 | 1.022 | 4.232 | 2.08 | 8.06 | 1.64 | 0.09 | 1.786 | 5.408 | 1.39 |
| 2.58 | 14.56 | 1.88 | 0.15 | 0.919 | 4.103 | 2.35 | 7.87 | 1.73 | 0.10 | 1.559 | 5.124 | 1.59 |
| 2.84 | 13.70 | 1.97 | 0.16 | 0.845 | 4.009 | 2.63 | 7.66 | 1.83 | 0.11 | 1.398 | 4.916 | 1.80 |
| 3.11 | 12.90 | 2.08 | 0.18 | 0.793 | 3.940 | 2.90 | 7.43 | 1.94 | 0.13 | 1.282 | 4.763 | 2.02 |
| 3.37 | 12.14 | 2.19 | 0.20 | 0.755 | 3.891 | 3.17 | 7.18 | 2.06 | 0.14 | 1.198 | 4.648 | 2.25 |
| 3.63 | 11.42 | 2.31 | 0.21 | 0.729 | 3.857 | 3.43 | 6.93 | 2.19 | 0.15 | 1.137 | 4.562 | 2.47 |
| 3.89 | 10.75 | 2.43 | 0.23 | 0.709 | 3.833 | 3.69 | 6.67 | 2.33 | 0.17 | 1.090 | 4.495 | 2.69 |
| 4.16 | 10.12 | 2.55 | 0.25 | 0.694 | 3.815 | 3.94 | 6.41 | 2.46 | 0.18 | 1.053 | 4.441 | 2.91 |
| 4.42 | 9.55 | 2.65 | 0.26 | 0.679 | 3.798 | 4.18 | 6.16 | 2.58 | 0.20 | 1.018 | 4.394 | 3.13 |
| 4.68 | 9.03 | 2.74 | 0.27 | 0.661 | 3.780 | 4.41 | 5.93 | 2.69 | 0.21 | 0.984 | 4.348 | 3.34 |
| 4.95 | 8.57 | 2.80 | 0.29 | 0.639 | 3.757 | 4.64 | 5.71 | 2.78 | 0.22 | 0.946 | 4.299 | 3.55 |
| 5.21 | 8.17 | 2.84 | 0.30 | 0.613 | 3.728 | 4.86 | 5.52 | 2.85 | 0.23 | 0.905 | 4.247 | 3.76 |
| 5.47 | 7.82 | 2.85 | 0.32 | 0.582 | 3.695 | 5.09 | 5.35 | 2.89 | 0.25 | 0.860 | 4.191 | 3.97 |
| 5.74 | 7.52 | 2.83 | 0.33 | 0.549 | 3.657 | 5.32 | 5.20 | 2.92 | 0.26 | 0.812 | 4.131 | 4.18 |
| 6.00 | 7.26 | 2.80 | 0.35 | 0.515 | 3.618 | 5.56 | 5.08 | 2.92 | 0.27 | 0.763 | 4.070 | 4.39 |



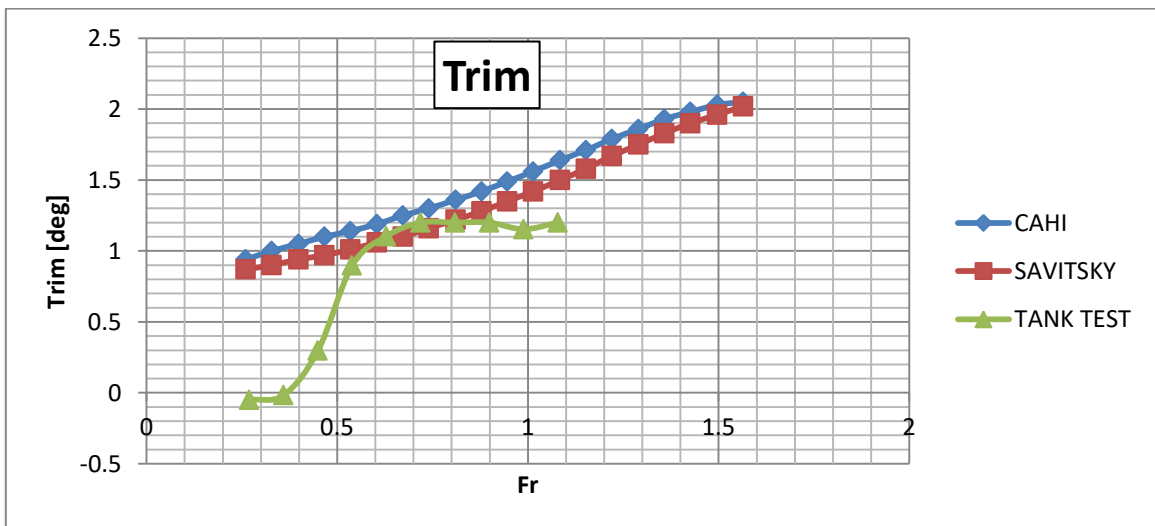
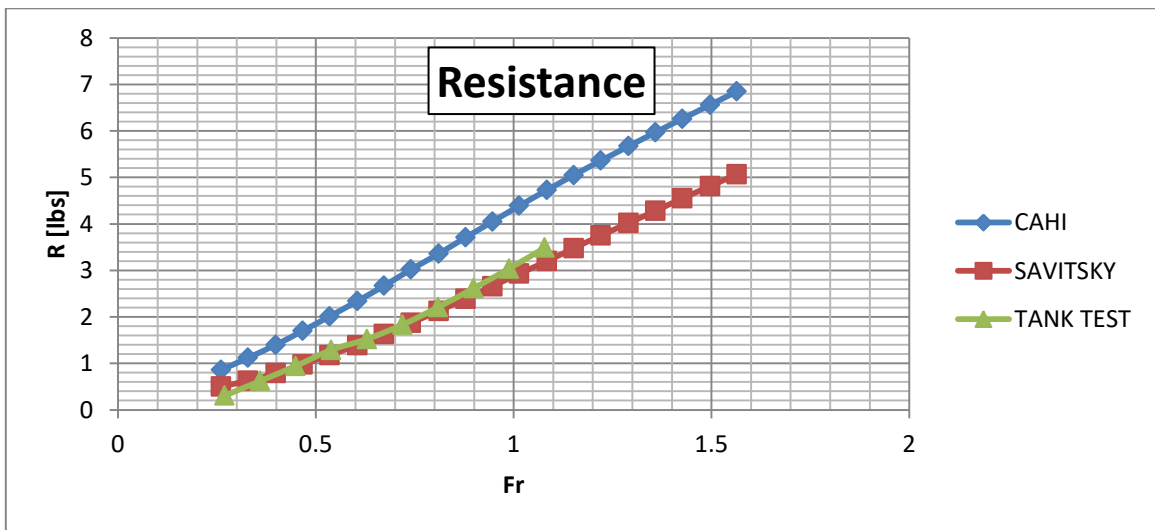
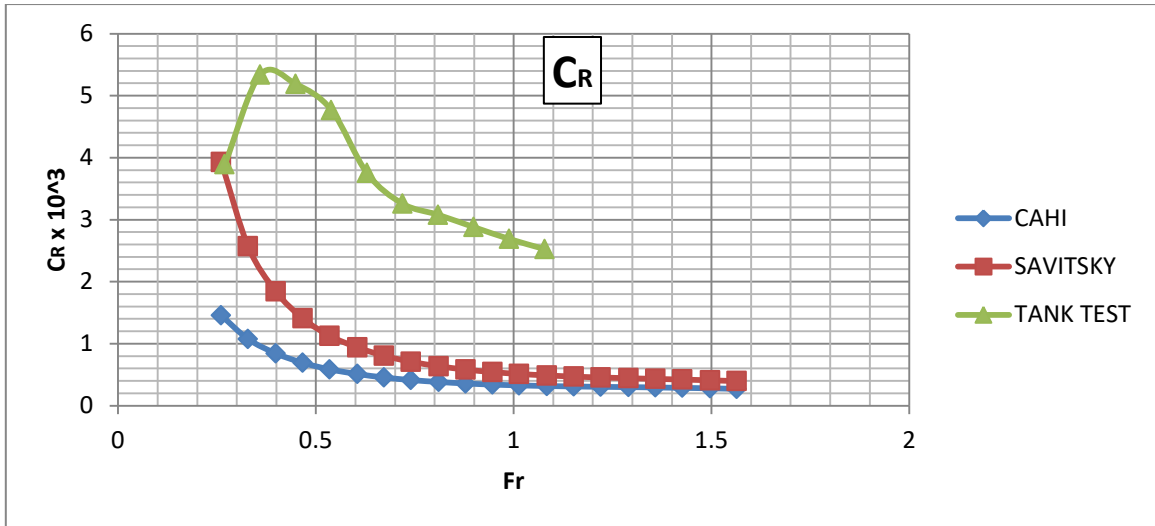
b=30.00 deg Bc=0.21 m Disp=7.27 kp LCG=0.69 m

| ~CAHI~ | | | | | | | ~SAVITSKY~ | | | | | |
|-------------|------------|---------------|------------|-----------------------|-----------------------|------------|------------|---------------|------------|-----------------------|-----------------------|------------|
| Vs [m/s] | Lamda - | Trim [deg] | D/W [%] | Cr 10 ³ | Ct 10 ³ | R [lbs] | Lamda - | Trim [deg] | D/W [%] | Cr 10 ³ | Ct 10 ³ | R [lbs] |
| 1.00 | 26.55 | 1.16 | 0.05 | 2.060 | 5.450 | 0.86 | 9.57 | 1.06 | 0.03 | 5.197 | 9.328 | 0.53 |
| 1.26 | 23.97 | 1.22 | 0.07 | 1.508 | 4.817 | 1.09 | 9.49 | 1.10 | 0.04 | 3.408 | 7.356 | 0.66 |
| 1.53 | 22.03 | 1.28 | 0.08 | 1.177 | 4.424 | 1.35 | 9.39 | 1.14 | 0.05 | 2.453 | 6.264 | 0.82 |
| 1.79 | 20.45 | 1.34 | 0.10 | 0.963 | 4.161 | 1.62 | 9.28 | 1.19 | 0.06 | 1.884 | 5.588 | 0.99 |
| 2.05 | 19.13 | 1.39 | 0.12 | 0.816 | 3.974 | 1.90 | 9.14 | 1.24 | 0.07 | 1.519 | 5.137 | 1.18 |
| 2.32 | 17.98 | 1.45 | 0.14 | 0.713 | 3.838 | 2.19 | 8.98 | 1.30 | 0.09 | 1.273 | 4.821 | 1.38 |
| 2.58 | 16.94 | 1.52 | 0.16 | 0.637 | 3.736 | 2.50 | 8.80 | 1.37 | 0.10 | 1.100 | 4.590 | 1.60 |
| 2.84 | 16.00 | 1.59 | 0.17 | 0.582 | 3.659 | 2.80 | 8.61 | 1.44 | 0.11 | 0.976 | 4.417 | 1.82 |
| 3.11 | 15.12 | 1.67 | 0.19 | 0.541 | 3.601 | 3.11 | 8.39 | 1.52 | 0.13 | 0.885 | 4.286 | 2.06 |
| 3.37 | 14.30 | 1.75 | 0.21 | 0.511 | 3.557 | 3.42 | 8.16 | 1.60 | 0.14 | 0.818 | 4.186 | 2.30 |
| 3.63 | 13.52 | 1.84 | 0.23 | 0.489 | 3.525 | 3.72 | 7.92 | 1.70 | 0.16 | 0.768 | 4.108 | 2.55 |
| 3.89 | 12.78 | 1.93 | 0.25 | 0.473 | 3.502 | 4.02 | 7.67 | 1.80 | 0.17 | 0.731 | 4.048 | 2.79 |
| 4.16 | 12.08 | 2.02 | 0.27 | 0.461 | 3.486 | 4.30 | 7.41 | 1.90 | 0.19 | 0.702 | 4.001 | 3.04 |
| 4.42 | 11.42 | 2.12 | 0.29 | 0.452 | 3.474 | 4.58 | 7.15 | 2.00 | 0.20 | 0.679 | 3.963 | 3.28 |
| 4.68 | 10.81 | 2.21 | 0.30 | 0.443 | 3.464 | 4.85 | 6.89 | 2.10 | 0.22 | 0.660 | 3.931 | 3.52 |
| 4.95 | 10.26 | 2.28 | 0.32 | 0.434 | 3.453 | 5.12 | 6.65 | 2.20 | 0.23 | 0.641 | 3.901 | 3.76 |
| 5.21 | 9.75 | 2.34 | 0.34 | 0.422 | 3.441 | 5.38 | 6.42 | 2.28 | 0.25 | 0.621 | 3.871 | 4.00 |
| 5.47 | 9.31 | 2.38 | 0.35 | 0.408 | 3.426 | 5.64 | 6.21 | 2.35 | 0.26 | 0.599 | 3.840 | 4.23 |
| 5.74 | 8.92 | 2.41 | 0.37 | 0.392 | 3.408 | 5.90 | 6.03 | 2.40 | 0.28 | 0.576 | 3.807 | 4.47 |
| 6.00 | 8.58 | 2.41 | 0.38 | 0.374 | 3.386 | 6.16 | 5.86 | 2.44 | 0.29 | 0.550 | 3.772 | 4.71 |



b=30.00 deg Bc=0.21 m Disp=7.27 kp LCG=0.75 m

| ~CAHI~ | | | | | | | ~SAVITSKY~ | | | | | |
|-------------|------------|---------------|------------|-----------------------|-----------------------|------------|------------|---------------|------------|-----------------------|-----------------------|------------|
| Vs [m/s] | Lamda - | Trim [deg] | D/W [%] | Cr 10 ³ | Ct 10 ³ | R [lbs] | Lamda - | Trim [deg] | D/W [%] | Cr 10 ³ | Ct 10 ³ | R [lbs] |
| 1.00 | 30.33 | 0.94 | 0.05 | 1.456 | 4.764 | 0.86 | 10.43 | 0.87 | 0.03 | 3.932 | 7.992 | 0.50 |
| 1.26 | 27.38 | 1.00 | 0.07 | 1.075 | 4.305 | 1.12 | 10.36 | 0.90 | 0.04 | 2.570 | 6.450 | 0.63 |
| 1.53 | 25.16 | 1.05 | 0.09 | 0.843 | 4.013 | 1.40 | 10.26 | 0.94 | 0.05 | 1.842 | 5.587 | 0.79 |
| 1.79 | 23.38 | 1.10 | 0.11 | 0.691 | 3.813 | 1.70 | 10.15 | 0.97 | 0.06 | 1.408 | 5.048 | 0.98 |
| 2.05 | 21.89 | 1.14 | 0.13 | 0.586 | 3.669 | 2.01 | 10.03 | 1.01 | 0.07 | 1.128 | 4.683 | 1.18 |
| 2.32 | 20.60 | 1.19 | 0.15 | 0.510 | 3.561 | 2.34 | 9.88 | 1.06 | 0.09 | 0.939 | 4.423 | 1.39 |
| 2.58 | 19.45 | 1.25 | 0.17 | 0.455 | 3.479 | 2.67 | 9.72 | 1.10 | 0.10 | 0.805 | 4.231 | 1.63 |
| 2.84 | 18.42 | 1.30 | 0.19 | 0.413 | 3.415 | 3.02 | 9.54 | 1.16 | 0.12 | 0.708 | 4.085 | 1.87 |
| 3.11 | 17.46 | 1.36 | 0.21 | 0.382 | 3.366 | 3.36 | 9.34 | 1.22 | 0.13 | 0.636 | 3.971 | 2.13 |
| 3.37 | 16.56 | 1.42 | 0.23 | 0.358 | 3.327 | 3.71 | 9.13 | 1.28 | 0.15 | 0.582 | 3.882 | 2.39 |
| 3.63 | 15.72 | 1.49 | 0.25 | 0.340 | 3.298 | 4.05 | 8.90 | 1.35 | 0.17 | 0.542 | 3.812 | 2.66 |
| 3.89 | 14.92 | 1.56 | 0.27 | 0.327 | 3.276 | 4.39 | 8.66 | 1.42 | 0.18 | 0.511 | 3.756 | 2.93 |
| 4.16 | 14.15 | 1.64 | 0.29 | 0.317 | 3.259 | 4.73 | 8.41 | 1.50 | 0.20 | 0.488 | 3.711 | 3.20 |
| 4.42 | 13.43 | 1.71 | 0.31 | 0.310 | 3.248 | 5.05 | 8.15 | 1.58 | 0.22 | 0.469 | 3.676 | 3.48 |
| 4.68 | 12.74 | 1.79 | 0.33 | 0.304 | 3.239 | 5.36 | 7.89 | 1.67 | 0.23 | 0.455 | 3.647 | 3.75 |
| 4.95 | 12.11 | 1.86 | 0.35 | 0.299 | 3.233 | 5.67 | 7.63 | 1.75 | 0.25 | 0.443 | 3.623 | 4.02 |
| 5.21 | 11.52 | 1.93 | 0.37 | 0.294 | 3.226 | 5.97 | 7.38 | 1.83 | 0.27 | 0.432 | 3.601 | 4.28 |
| 5.47 | 10.98 | 1.98 | 0.39 | 0.287 | 3.219 | 6.26 | 7.14 | 1.90 | 0.28 | 0.421 | 3.581 | 4.55 |
| 5.74 | 10.49 | 2.03 | 0.41 | 0.280 | 3.211 | 6.56 | 6.92 | 1.96 | 0.30 | 0.409 | 3.561 | 4.81 |
| 6.00 | 10.06 | 2.05 | 0.43 | 0.271 | 3.201 | 6.85 | 6.72 | 2.02 | 0.32 | 0.396 | 3.539 | 5.07 |



Simulation Info:

28/06/2019 08:49:36 pm

Input Data:

Ship Speed: from Vs1=1.00 m/s to Vs2=6.00 m/s (for 20 different Ship Speed values)

Ship Displacement: Disp=10.44 kp

Breadth at Chine: Bc=0.21 m

Deadrise Angle: b=30.00 deg

LCG: from LCG1=0.63 m to LCG2=0.75 m (for 3 different LCG values)

Fresh water properties at 16.00C:

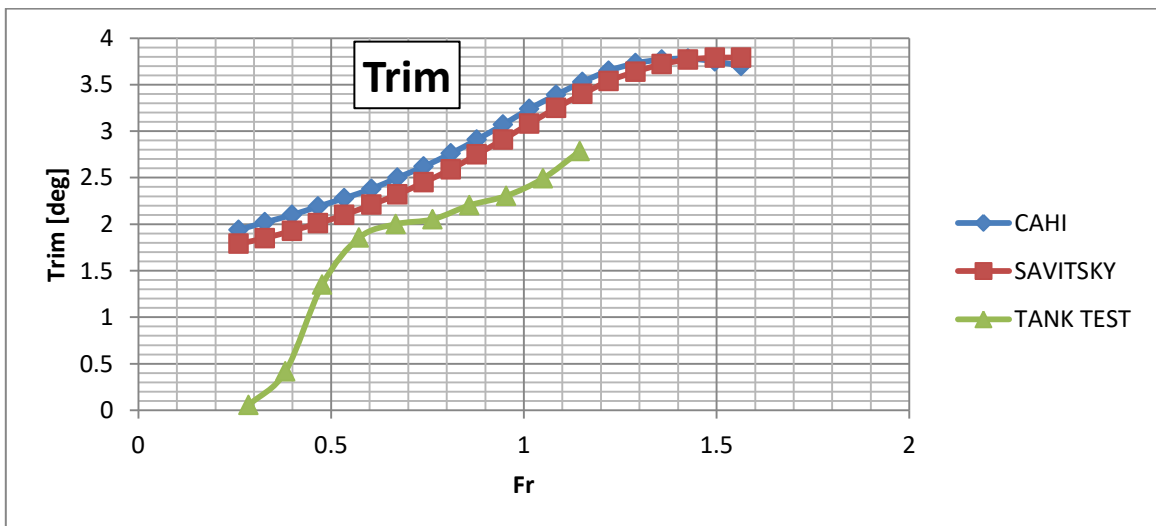
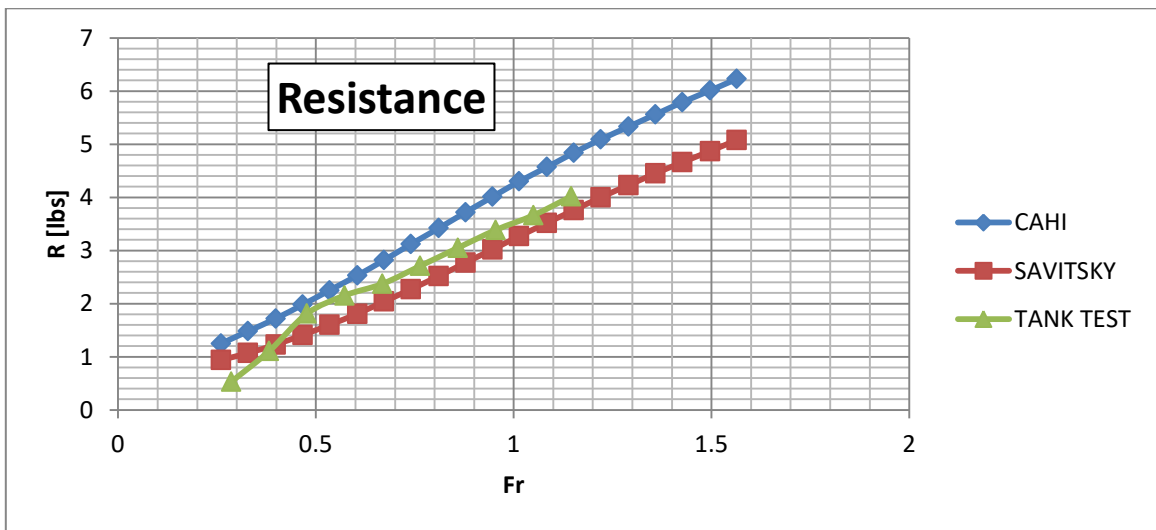
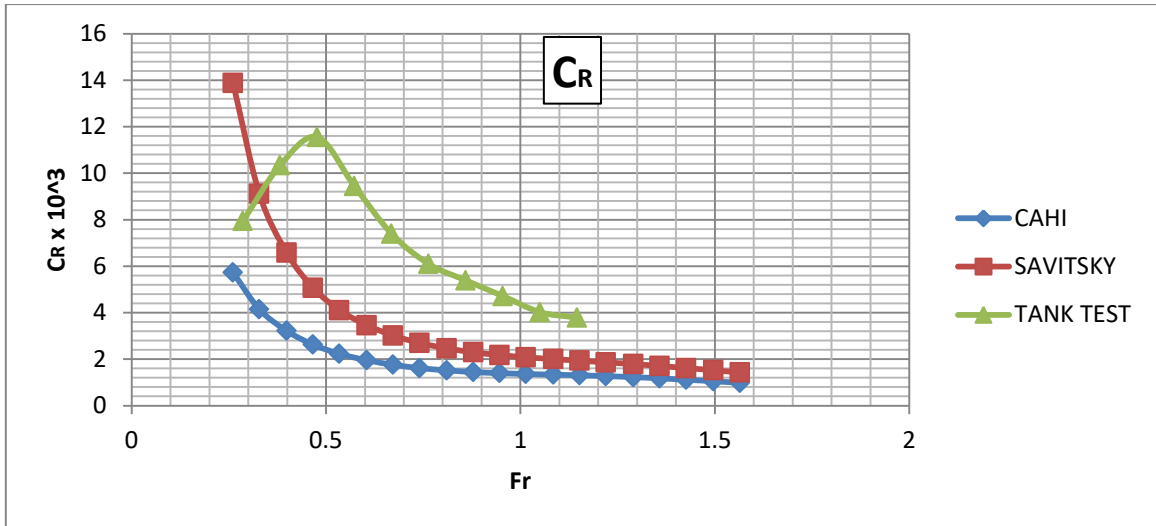
Density=998.90 kg/m³

Viscosity=1.10966*10⁻⁶ m²/s

Results:

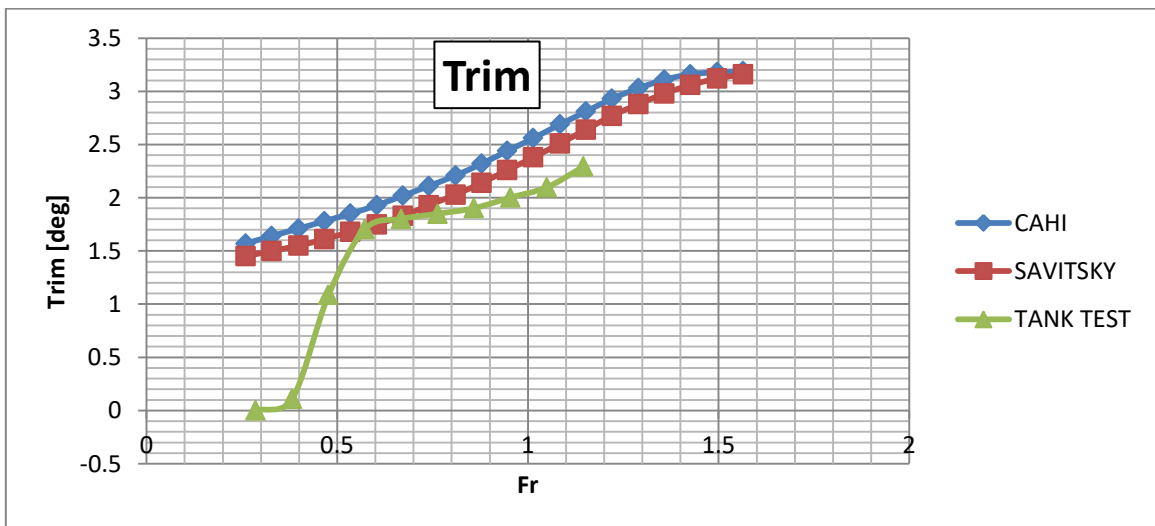
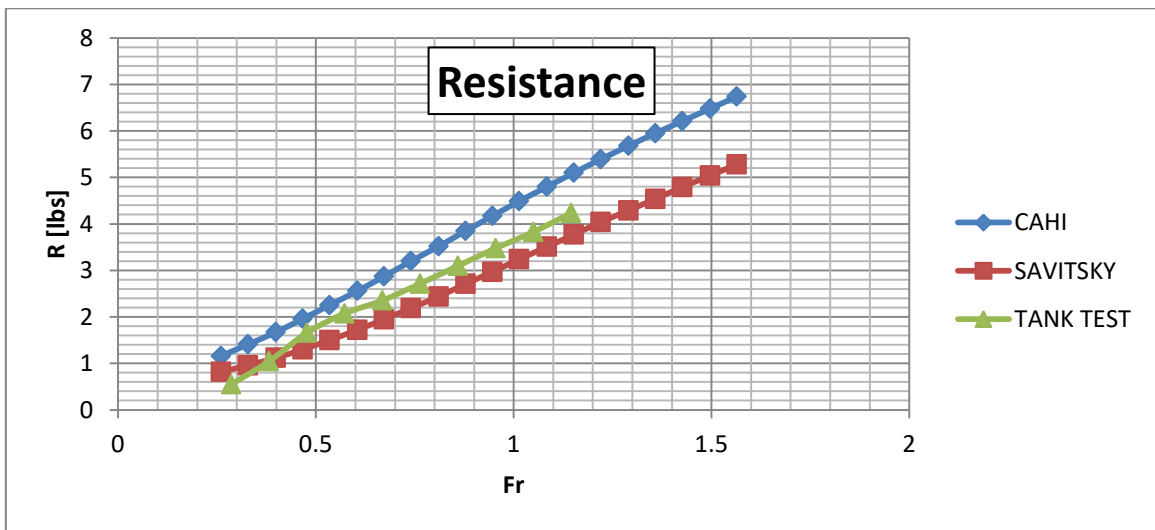
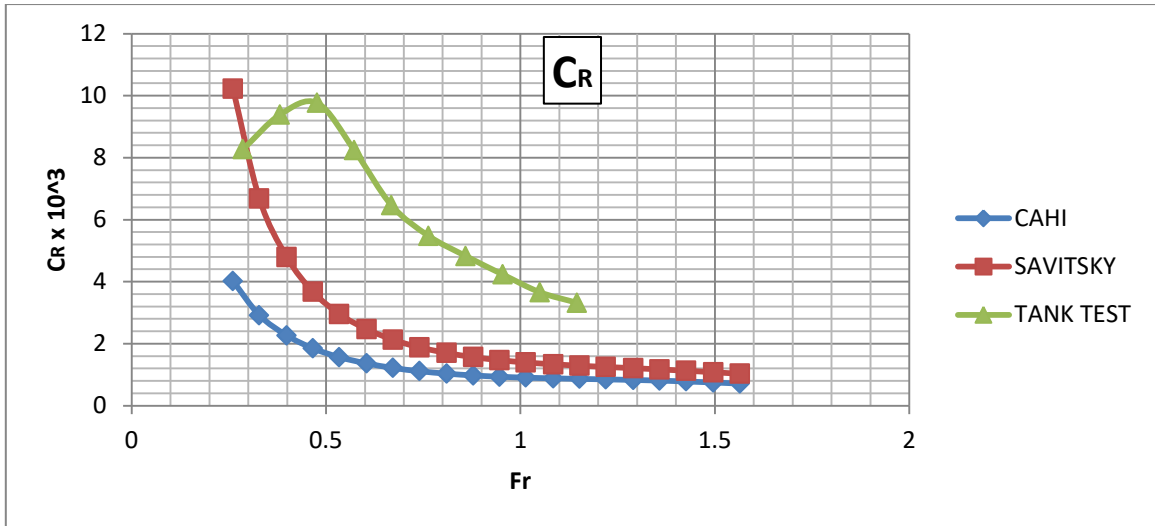
b=30.00 deg Bc=0.21 m Disp=10.44 kp LCG=0.63 m

| ~CAHI~ | | | | | | | ~SAVITSKY~ | | | | | |
|--------|-------|-------|------|-----------------|-----------------|-------|------------|-------|------|-----------------|-----------------|-------|
| Vs | Lamda | Trim | D/W | Cr | Ct | R | Lamda | Trim | D/W | Cr | Ct | R |
| [m/s] | - | [deg] | [%] | 10 ³ | 10 ³ | [lbs] | - | [deg] | [%] | 10 ³ | 10 ³ | [lbs] |
| 1.00 | 22.99 | 1.94 | 0.05 | 5.728 | 9.203 | 1.25 | 8.72 | 1.79 | 0.04 | 13.882 | 18.083 | 0.94 |
| 1.26 | 20.76 | 2.02 | 0.06 | 4.144 | 7.534 | 1.48 | 8.63 | 1.85 | 0.05 | 9.115 | 13.129 | 1.07 |
| 1.53 | 19.07 | 2.10 | 0.07 | 3.217 | 6.543 | 1.72 | 8.52 | 1.93 | 0.05 | 6.577 | 10.453 | 1.23 |
| 1.79 | 17.69 | 2.19 | 0.09 | 2.627 | 5.903 | 1.98 | 8.39 | 2.01 | 0.06 | 5.071 | 8.839 | 1.41 |
| 2.05 | 16.52 | 2.28 | 0.10 | 2.230 | 5.466 | 2.25 | 8.24 | 2.10 | 0.07 | 4.109 | 7.791 | 1.60 |
| 2.32 | 15.49 | 2.38 | 0.11 | 1.954 | 5.157 | 2.53 | 8.06 | 2.21 | 0.08 | 3.463 | 7.076 | 1.81 |
| 2.58 | 14.56 | 2.50 | 0.12 | 1.758 | 4.935 | 2.82 | 7.87 | 2.32 | 0.09 | 3.015 | 6.571 | 2.04 |
| 2.84 | 13.70 | 2.62 | 0.14 | 1.618 | 4.775 | 3.12 | 7.66 | 2.45 | 0.10 | 2.696 | 6.206 | 2.27 |
| 3.11 | 12.90 | 2.76 | 0.15 | 1.518 | 4.659 | 3.42 | 7.43 | 2.59 | 0.11 | 2.466 | 5.939 | 2.52 |
| 3.37 | 12.14 | 2.91 | 0.16 | 1.447 | 4.577 | 3.72 | 7.18 | 2.75 | 0.12 | 2.299 | 5.741 | 2.77 |
| 3.63 | 11.42 | 3.07 | 0.17 | 1.398 | 4.520 | 4.01 | 6.93 | 2.91 | 0.13 | 2.175 | 5.593 | 3.02 |
| 3.89 | 10.75 | 3.24 | 0.19 | 1.363 | 4.480 | 4.30 | 6.67 | 3.08 | 0.14 | 2.081 | 5.479 | 3.27 |
| 4.16 | 10.12 | 3.39 | 0.20 | 1.334 | 4.449 | 4.57 | 6.41 | 3.25 | 0.15 | 2.004 | 5.386 | 3.52 |
| 4.42 | 9.55 | 3.53 | 0.21 | 1.305 | 4.419 | 4.84 | 6.16 | 3.40 | 0.16 | 1.935 | 5.303 | 3.76 |
| 4.68 | 9.03 | 3.65 | 0.22 | 1.271 | 4.384 | 5.09 | 5.93 | 3.54 | 0.17 | 1.864 | 5.221 | 4.00 |
| 4.95 | 8.57 | 3.73 | 0.23 | 1.228 | 4.340 | 5.33 | 5.71 | 3.64 | 0.18 | 1.789 | 5.135 | 4.23 |
| 5.21 | 8.17 | 3.77 | 0.24 | 1.176 | 4.286 | 5.56 | 5.52 | 3.72 | 0.19 | 1.707 | 5.042 | 4.45 |
| 5.47 | 7.82 | 3.78 | 0.25 | 1.116 | 4.223 | 5.79 | 5.35 | 3.77 | 0.20 | 1.617 | 4.942 | 4.66 |
| 5.74 | 7.52 | 3.75 | 0.26 | 1.051 | 4.153 | 6.01 | 5.20 | 3.79 | 0.21 | 1.523 | 4.836 | 4.87 |
| 6.00 | 7.26 | 3.70 | 0.27 | 0.983 | 4.080 | 6.23 | 5.08 | 3.79 | 0.22 | 1.427 | 4.728 | 5.08 |



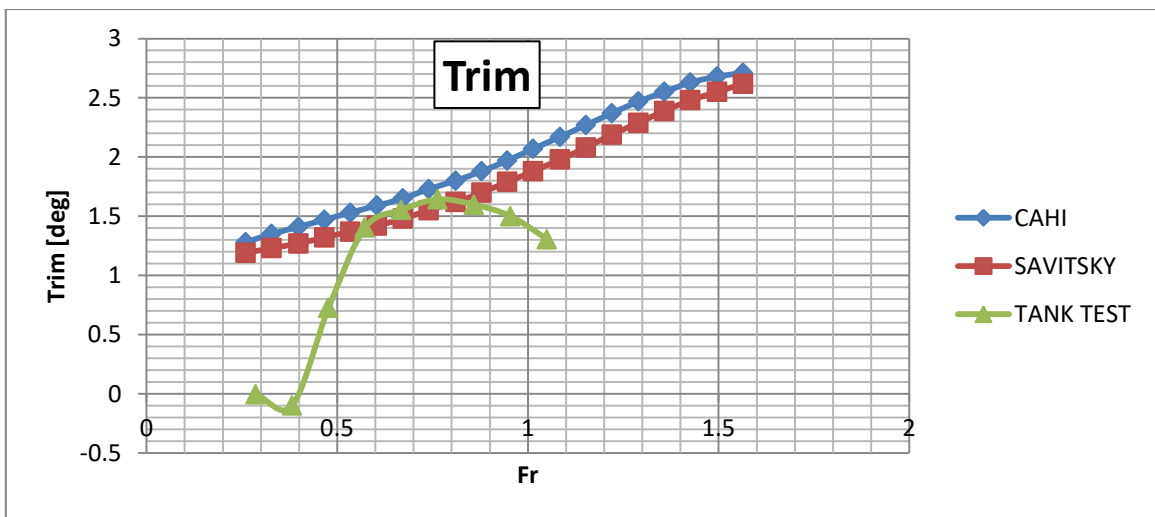
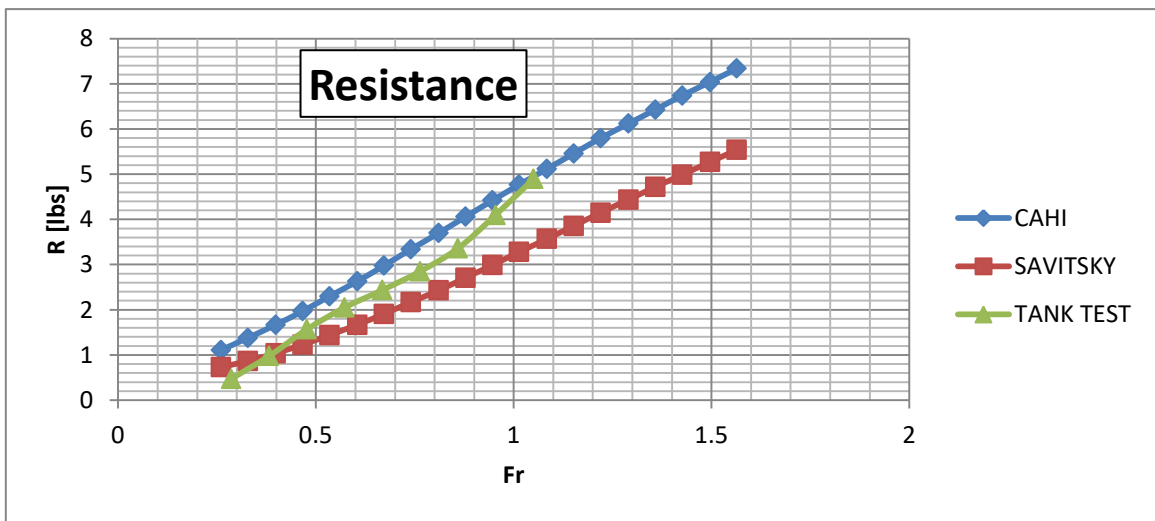
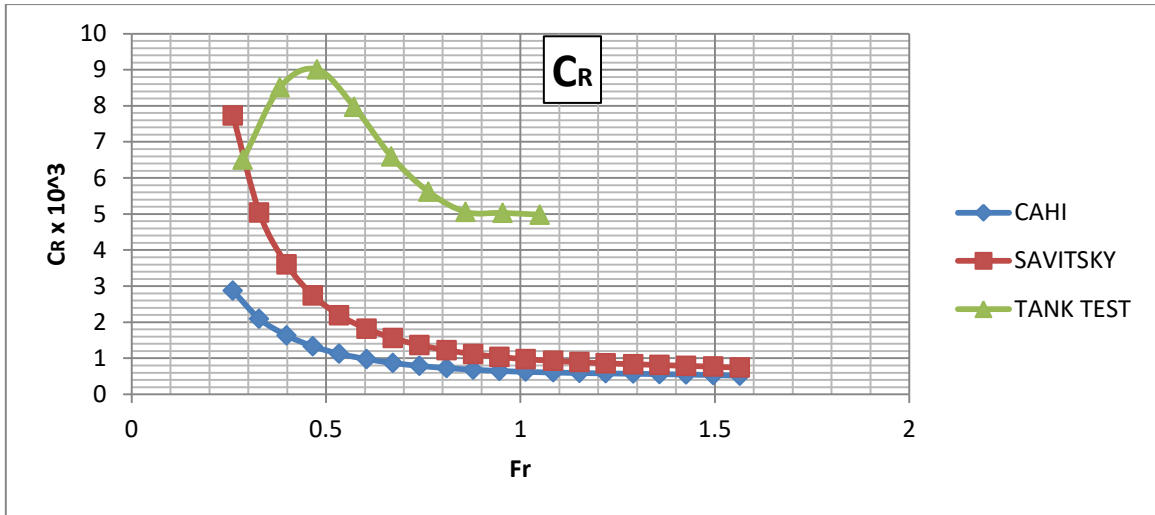
b=30.00 deg Bc=0.21 m Disp=10.44 kp LCG=0.69 m

| ~CAHI~ | | | | | | | ~SAVITSKY~ | | | | | |
|-------------|------------|---------------|------------|-----------------------|-----------------------|------------|------------|---------------|------------|-----------------------|-----------------------|------------|
| Vs [m/s] | Lamda - | Trim [deg] | D/W [%] | Cr 10 ³ | Ct 10 ³ | R [lbs] | Lamda - | Trim [deg] | D/W [%] | Cr 10 ³ | Ct 10 ³ | R [lbs] |
| 1.00 | 26.55 | 1.57 | 0.05 | 4.018 | 7.400 | 1.16 | 9.57 | 1.45 | 0.04 | 10.222 | 14.342 | 0.82 |
| 1.26 | 23.97 | 1.64 | 0.06 | 2.917 | 6.219 | 1.41 | 9.49 | 1.50 | 0.04 | 6.682 | 10.620 | 0.96 |
| 1.53 | 22.03 | 1.71 | 0.07 | 2.266 | 5.505 | 1.67 | 9.39 | 1.55 | 0.05 | 4.795 | 8.596 | 1.12 |
| 1.79 | 20.45 | 1.78 | 0.08 | 1.847 | 5.038 | 1.96 | 9.28 | 1.61 | 0.06 | 3.672 | 7.367 | 1.30 |
| 2.05 | 19.13 | 1.85 | 0.10 | 1.563 | 4.714 | 2.25 | 9.14 | 1.68 | 0.07 | 2.952 | 6.562 | 1.50 |
| 2.32 | 17.98 | 1.93 | 0.11 | 1.362 | 4.481 | 2.56 | 8.98 | 1.75 | 0.07 | 2.466 | 6.006 | 1.72 |
| 2.58 | 16.94 | 2.02 | 0.12 | 1.217 | 4.309 | 2.87 | 8.80 | 1.83 | 0.08 | 2.125 | 5.607 | 1.95 |
| 2.84 | 16.00 | 2.11 | 0.14 | 1.111 | 4.181 | 3.20 | 8.61 | 1.93 | 0.10 | 1.880 | 5.314 | 2.19 |
| 3.11 | 15.12 | 2.21 | 0.15 | 1.032 | 4.086 | 3.52 | 8.39 | 2.03 | 0.11 | 1.700 | 5.094 | 2.44 |
| 3.37 | 14.30 | 2.32 | 0.17 | 0.975 | 4.015 | 3.85 | 8.16 | 2.14 | 0.12 | 1.567 | 4.927 | 2.71 |
| 3.63 | 13.52 | 2.44 | 0.18 | 0.934 | 3.964 | 4.17 | 7.92 | 2.26 | 0.13 | 1.468 | 4.801 | 2.97 |
| 3.89 | 12.78 | 2.56 | 0.20 | 0.904 | 3.927 | 4.49 | 7.67 | 2.38 | 0.14 | 1.393 | 4.703 | 3.24 |
| 4.16 | 12.08 | 2.69 | 0.21 | 0.882 | 3.900 | 4.80 | 7.41 | 2.51 | 0.15 | 1.335 | 4.627 | 3.51 |
| 4.42 | 11.42 | 2.81 | 0.22 | 0.864 | 3.880 | 5.10 | 7.15 | 2.64 | 0.16 | 1.289 | 4.566 | 3.77 |
| 4.68 | 10.81 | 2.93 | 0.23 | 0.848 | 3.863 | 5.39 | 6.89 | 2.77 | 0.18 | 1.248 | 4.513 | 4.04 |
| 4.95 | 10.26 | 3.03 | 0.25 | 0.830 | 3.844 | 5.68 | 6.65 | 2.88 | 0.19 | 1.210 | 4.463 | 4.29 |
| 5.21 | 9.75 | 3.11 | 0.26 | 0.808 | 3.821 | 5.95 | 6.42 | 2.98 | 0.20 | 1.169 | 4.413 | 4.54 |
| 5.47 | 9.31 | 3.16 | 0.27 | 0.780 | 3.792 | 6.21 | 6.21 | 3.06 | 0.21 | 1.126 | 4.360 | 4.79 |
| 5.74 | 8.92 | 3.18 | 0.28 | 0.748 | 3.758 | 6.48 | 6.03 | 3.12 | 0.22 | 1.079 | 4.304 | 5.04 |
| 6.00 | 8.58 | 3.19 | 0.29 | 0.712 | 3.719 | 6.74 | 5.86 | 3.16 | 0.23 | 1.028 | 4.243 | 5.28 |



b=30.00 deg Bc=0.21 m Disp=10.44 kp LCG=0.75 m

| ~CAHI~ | | | | | | | ~SAVITSKY~ | | | | | |
|-------------|------------|---------------|------------|-----------------------|-----------------------|------------|------------|---------------|------------|-----------------------|-----------------------|------------|
| Vs [m/s] | Lamda - | Trim [deg] | D/W [%] | Cr 10 ³ | Ct 10 ³ | R [lbs] | Lamda - | Trim [deg] | D/W [%] | Cr 10 ³ | Ct 10 ³ | R [lbs] |
| 1.00 | 30.33 | 1.28 | 0.05 | 2.870 | 6.171 | 1.11 | 10.43 | 1.19 | 0.03 | 7.732 | 11.781 | 0.73 |
| 1.26 | 27.38 | 1.35 | 0.06 | 2.095 | 5.318 | 1.38 | 10.36 | 1.23 | 0.04 | 5.037 | 8.908 | 0.87 |
| 1.53 | 25.16 | 1.41 | 0.07 | 1.631 | 4.795 | 1.67 | 10.26 | 1.27 | 0.05 | 3.599 | 7.335 | 1.04 |
| 1.79 | 23.38 | 1.47 | 0.09 | 1.330 | 4.446 | 1.97 | 10.15 | 1.32 | 0.05 | 2.742 | 6.373 | 1.23 |
| 2.05 | 21.89 | 1.53 | 0.10 | 1.124 | 4.200 | 2.30 | 10.03 | 1.37 | 0.06 | 2.192 | 5.738 | 1.44 |
| 2.32 | 20.60 | 1.59 | 0.11 | 0.977 | 4.021 | 2.63 | 9.88 | 1.42 | 0.07 | 1.818 | 5.294 | 1.67 |
| 2.58 | 19.45 | 1.65 | 0.13 | 0.869 | 3.886 | 2.98 | 9.72 | 1.48 | 0.08 | 1.555 | 4.973 | 1.91 |
| 2.84 | 18.42 | 1.73 | 0.14 | 0.788 | 3.784 | 3.34 | 9.54 | 1.55 | 0.09 | 1.364 | 4.732 | 2.17 |
| 3.11 | 17.46 | 1.80 | 0.16 | 0.728 | 3.705 | 3.70 | 9.34 | 1.62 | 0.11 | 1.222 | 4.549 | 2.43 |
| 3.37 | 16.56 | 1.88 | 0.18 | 0.682 | 3.645 | 4.06 | 9.13 | 1.70 | 0.12 | 1.116 | 4.408 | 2.71 |
| 3.63 | 15.72 | 1.97 | 0.19 | 0.648 | 3.600 | 4.42 | 8.90 | 1.79 | 0.13 | 1.035 | 4.298 | 2.99 |
| 3.89 | 14.92 | 2.07 | 0.21 | 0.623 | 3.566 | 4.77 | 8.66 | 1.88 | 0.14 | 0.974 | 4.211 | 3.28 |
| 4.16 | 14.15 | 2.17 | 0.22 | 0.605 | 3.541 | 5.12 | 8.41 | 1.98 | 0.16 | 0.927 | 4.143 | 3.57 |
| 4.42 | 13.43 | 2.27 | 0.24 | 0.591 | 3.523 | 5.46 | 8.15 | 2.08 | 0.17 | 0.890 | 4.089 | 3.86 |
| 4.68 | 12.74 | 2.37 | 0.25 | 0.580 | 3.509 | 5.80 | 7.89 | 2.19 | 0.18 | 0.860 | 4.046 | 4.15 |
| 4.95 | 12.11 | 2.47 | 0.27 | 0.570 | 3.498 | 6.12 | 7.63 | 2.29 | 0.19 | 0.835 | 4.009 | 4.44 |
| 5.21 | 11.52 | 2.55 | 0.28 | 0.560 | 3.487 | 6.43 | 7.38 | 2.39 | 0.20 | 0.812 | 3.975 | 4.72 |
| 5.47 | 10.98 | 2.63 | 0.29 | 0.548 | 3.474 | 6.74 | 7.14 | 2.48 | 0.22 | 0.790 | 3.943 | 4.99 |
| 5.74 | 10.49 | 2.68 | 0.31 | 0.533 | 3.458 | 7.04 | 6.92 | 2.55 | 0.23 | 0.766 | 3.911 | 5.27 |
| 6.00 | 10.06 | 2.71 | 0.32 | 0.515 | 3.439 | 7.34 | 6.72 | 2.62 | 0.24 | 0.739 | 3.876 | 5.54 |



Simulation Info:

28/06/2019 08:49:59 pm

Input Data:

Ship Speed: from Vs1=1.00 m/s to Vs2=6.00 m/s (for 20 different Ship Speed values)

Ship Displacement: Disp=16.85 kp

Breadth at Chine: Bc=0.21 m

Deadrise Angle: b=30.00 deg

LCG: from LCG1=0.63 m to LCG2=0.75 m (for 3 different LCG values)

Fresh water properties at 16.00C:

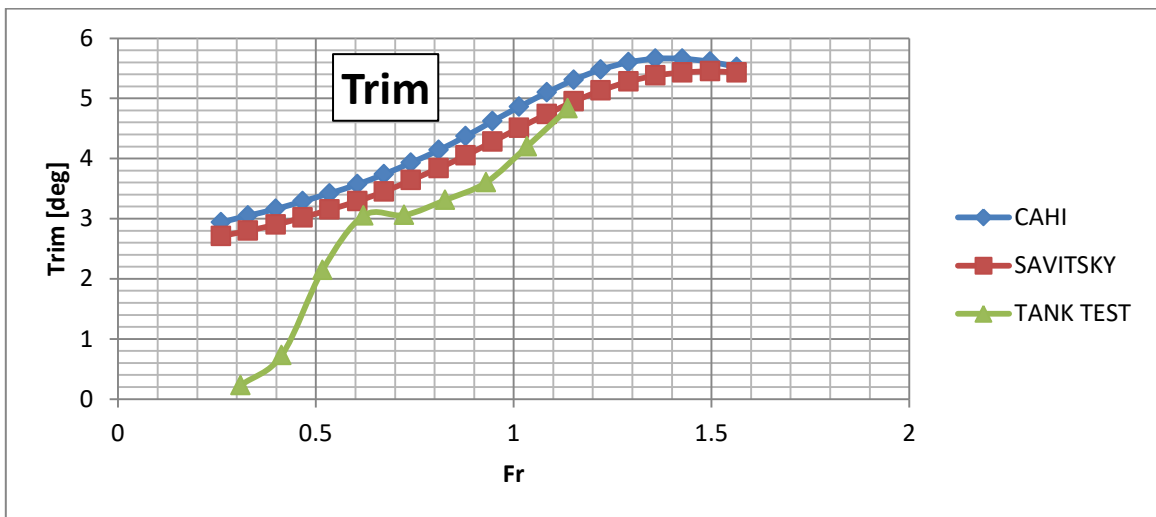
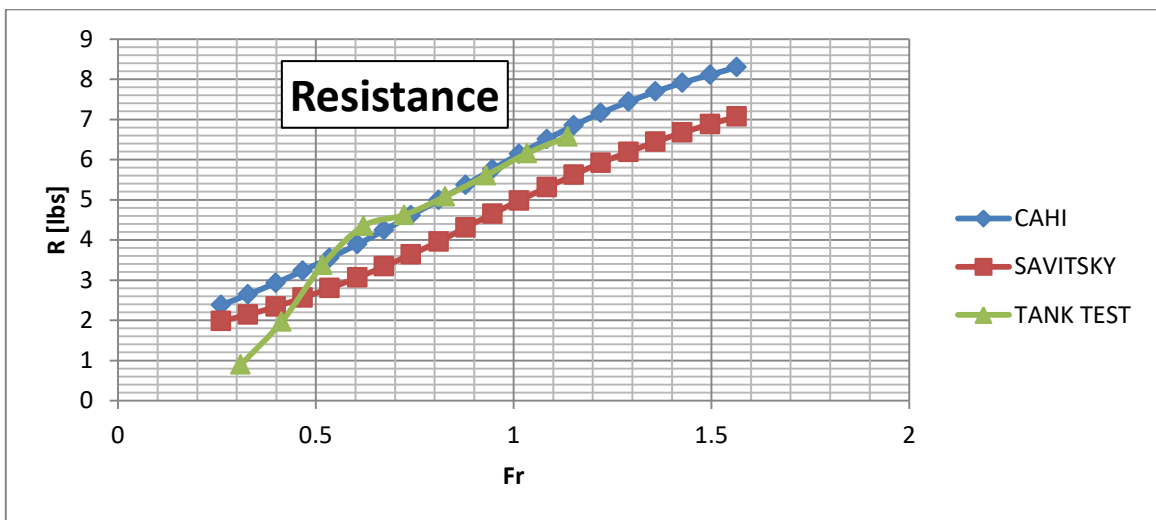
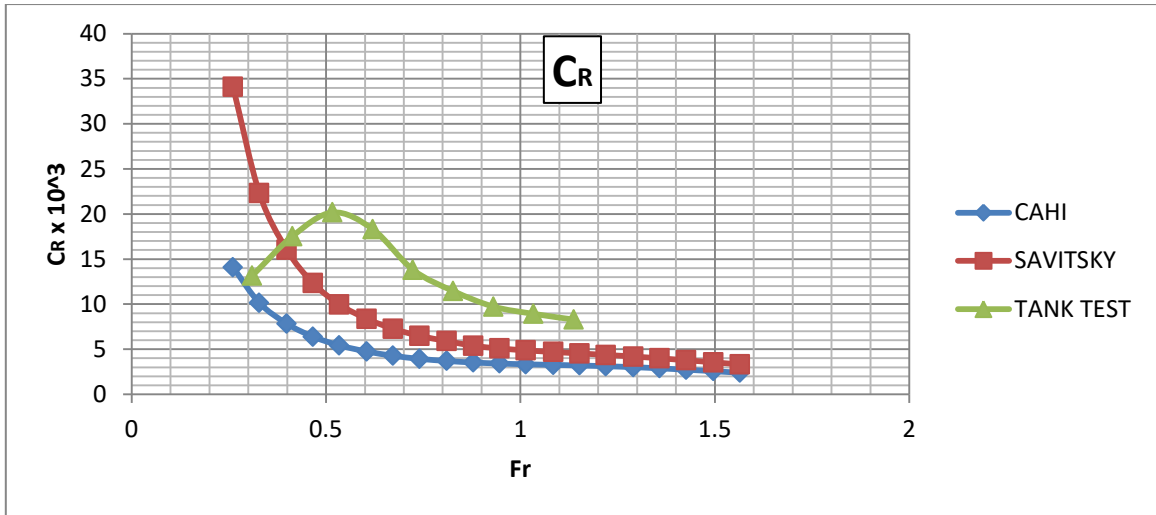
Density=998.90 kg/m³

Viscosity=1.10966*10⁻⁶ m²/s

Results:

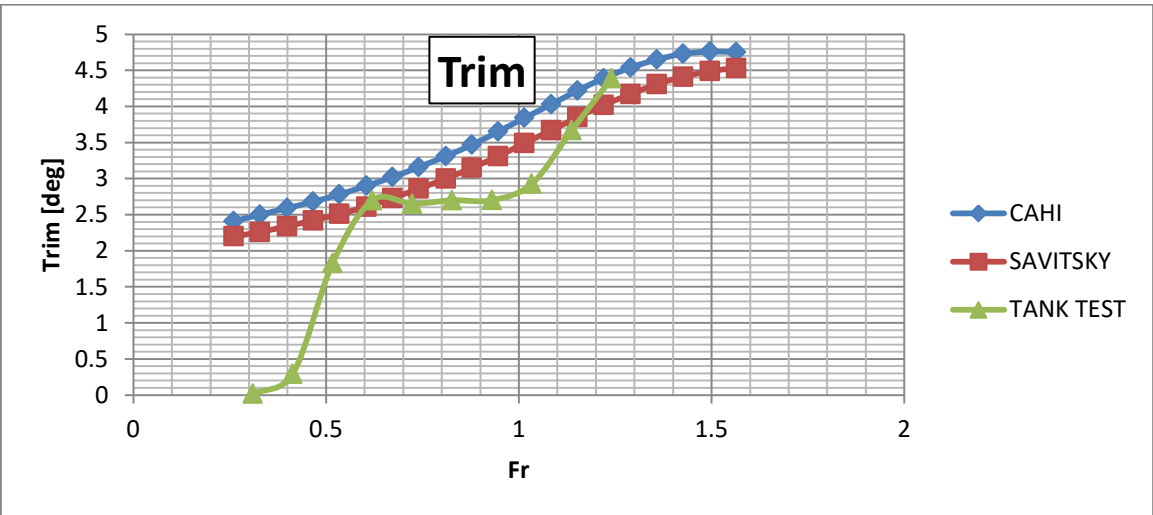
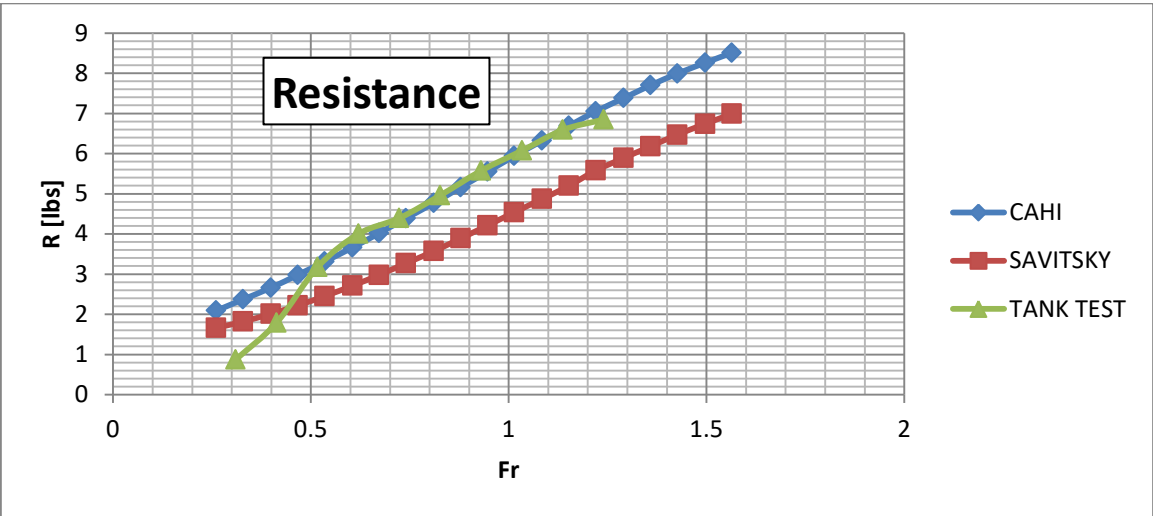
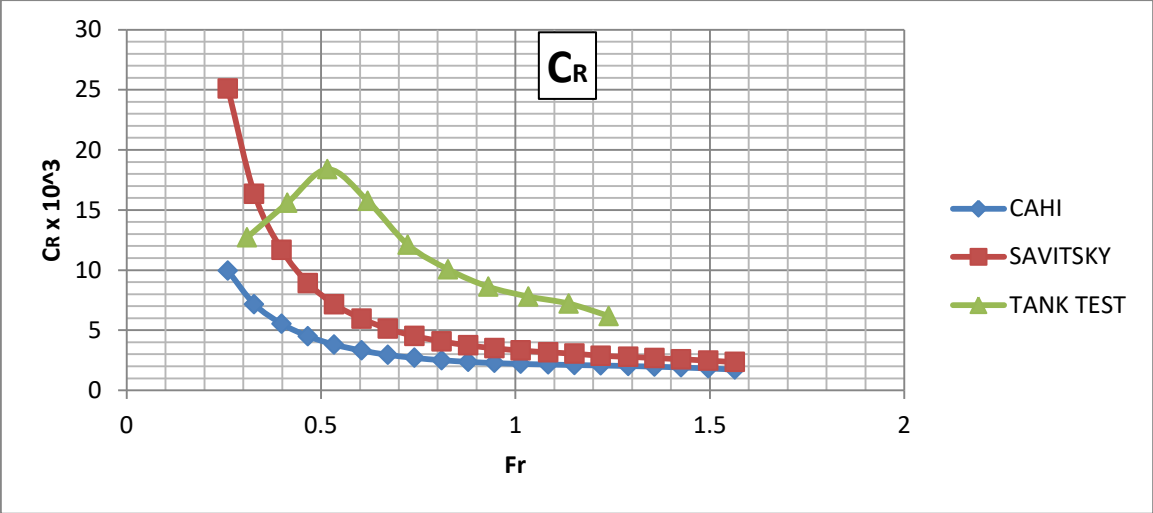
b=30.00 deg Bc=0.21 m Disp=16.85 kp LCG=0.63 m

| ~CAHI~ | | | | | | | ~SAVITSKY~ | | | | | |
|--------|-------|-------|------|-----------------|-----------------|-------|------------|-------|------|-----------------|-----------------|-------|
| Vs | Lamda | Trim | D/W | Cr | Ct | R | Lamda | Trim | D/W | Cr | Ct | R |
| [m/s] | - | [deg] | [%] | 10 ³ | 10 ³ | [lbs] | - | [deg] | [%] | 10 ³ | 10 ³ | [lbs] |
| 1.00 | 22.99 | 2.94 | 0.06 | 14.088 | 17.563 | 2.38 | 8.72 | 2.71 | 0.05 | 34.110 | 38.312 | 1.98 |
| 1.26 | 20.76 | 3.05 | 0.07 | 10.137 | 13.529 | 2.64 | 8.63 | 2.80 | 0.06 | 22.319 | 26.335 | 2.14 |
| 1.53 | 19.07 | 3.16 | 0.08 | 7.844 | 11.171 | 2.93 | 8.52 | 2.90 | 0.06 | 16.051 | 19.928 | 2.34 |
| 1.79 | 17.69 | 3.29 | 0.09 | 6.394 | 9.671 | 3.23 | 8.39 | 3.02 | 0.07 | 12.335 | 16.104 | 2.56 |
| 2.05 | 16.52 | 3.42 | 0.10 | 5.424 | 8.660 | 3.55 | 8.24 | 3.15 | 0.08 | 9.964 | 13.648 | 2.80 |
| 2.32 | 15.49 | 3.57 | 0.10 | 4.751 | 7.956 | 3.89 | 8.06 | 3.29 | 0.08 | 8.374 | 11.988 | 3.06 |
| 2.58 | 14.56 | 3.74 | 0.11 | 4.276 | 7.454 | 4.24 | 7.87 | 3.45 | 0.09 | 7.268 | 10.826 | 3.34 |
| 2.84 | 13.70 | 3.93 | 0.12 | 3.937 | 7.095 | 4.61 | 7.66 | 3.64 | 0.10 | 6.482 | 9.994 | 3.64 |
| 3.11 | 12.90 | 4.14 | 0.13 | 3.698 | 6.840 | 4.99 | 7.43 | 3.84 | 0.11 | 5.914 | 9.388 | 3.96 |
| 3.37 | 12.14 | 4.37 | 0.14 | 3.530 | 6.662 | 5.37 | 7.34 | 4.05 | 0.12 | 5.383 | 8.813 | 4.31 |
| 3.63 | 11.42 | 4.62 | 0.16 | 3.415 | 6.539 | 5.76 | 7.06 | 4.28 | 0.13 | 5.093 | 8.500 | 4.65 |
| 3.89 | 10.75 | 4.86 | 0.17 | 3.333 | 6.453 | 6.14 | 6.77 | 4.51 | 0.13 | 4.874 | 8.263 | 4.98 |
| 4.16 | 10.12 | 5.10 | 0.18 | 3.267 | 6.385 | 6.51 | 6.49 | 4.74 | 0.14 | 4.696 | 8.071 | 5.31 |
| 4.42 | 9.55 | 5.31 | 0.18 | 3.200 | 6.316 | 6.85 | 6.22 | 4.95 | 0.15 | 4.535 | 7.899 | 5.62 |
| 4.68 | 9.03 | 5.48 | 0.19 | 3.118 | 6.234 | 7.16 | 5.97 | 5.13 | 0.16 | 4.371 | 7.725 | 5.92 |
| 4.95 | 8.57 | 5.60 | 0.20 | 3.013 | 6.127 | 7.44 | 5.74 | 5.28 | 0.17 | 4.193 | 7.538 | 6.19 |
| 5.21 | 8.17 | 5.66 | 0.21 | 2.882 | 5.995 | 7.69 | 5.54 | 5.38 | 0.17 | 3.996 | 7.331 | 6.44 |
| 5.47 | 7.82 | 5.66 | 0.21 | 2.731 | 5.841 | 7.91 | 5.37 | 5.43 | 0.18 | 3.780 | 7.105 | 6.67 |
| 5.74 | 7.52 | 5.61 | 0.22 | 2.566 | 5.671 | 8.11 | 5.22 | 5.45 | 0.19 | 3.552 | 6.865 | 6.88 |
| 6.00 | 7.26 | 5.52 | 0.22 | 2.393 | 5.494 | 8.30 | 5.09 | 5.43 | 0.19 | 3.316 | 6.618 | 7.07 |



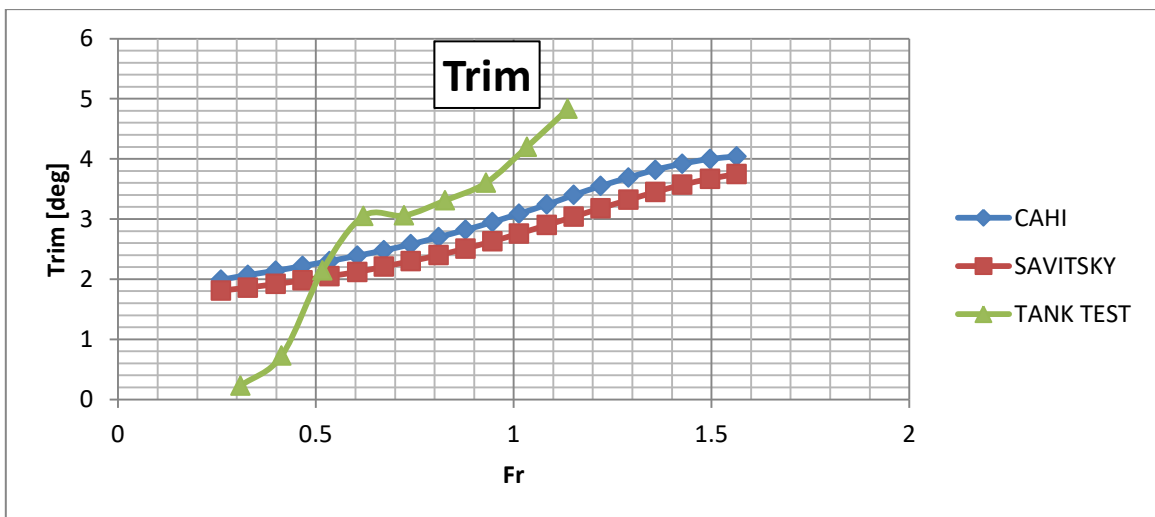
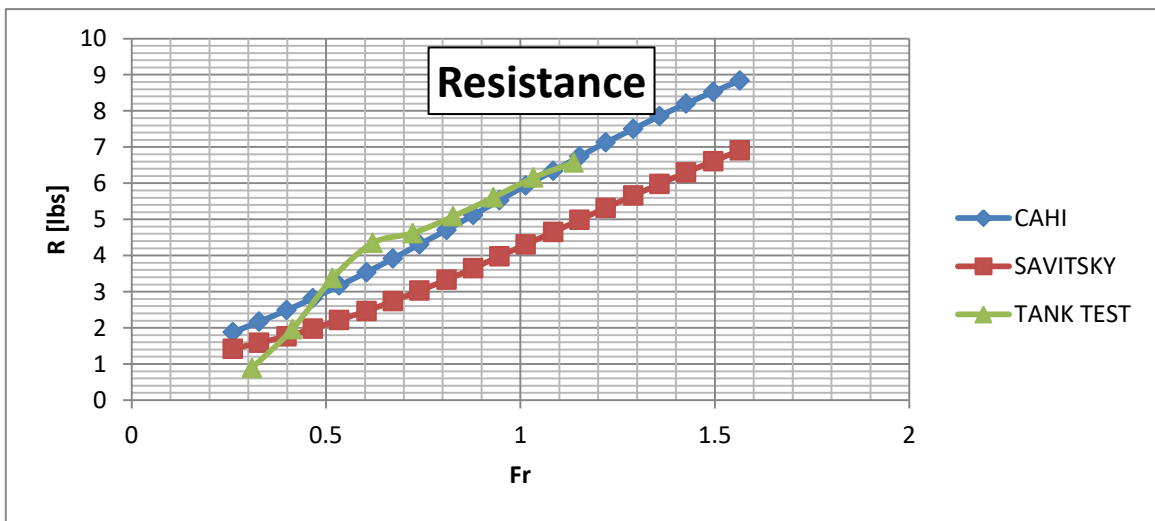
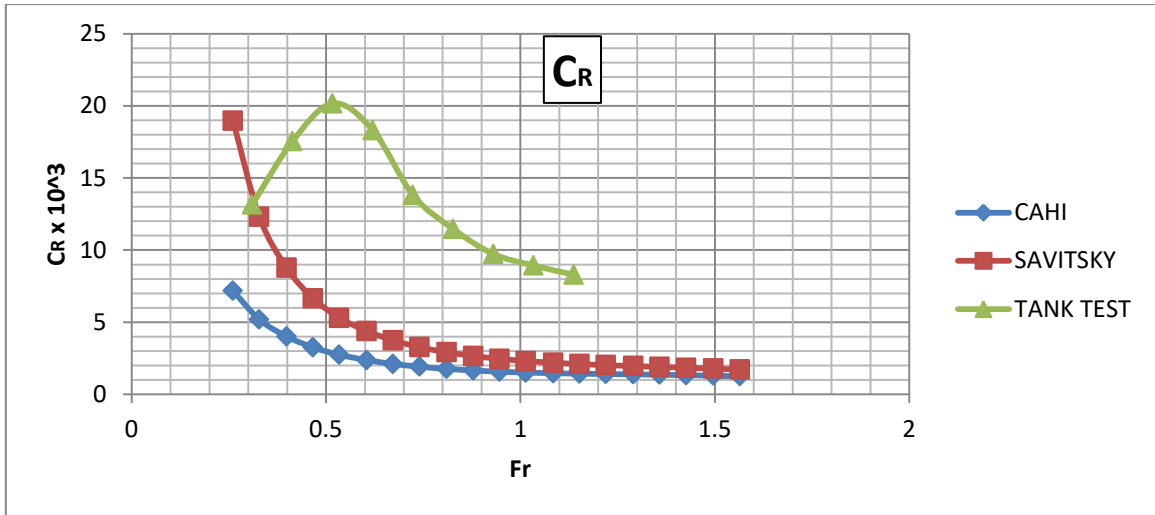
b=30.00 deg Bc=0.21 m Disp=16.85 kp LCG=0.69 m

| ~CAHI~ | | | | | | | ~SAVITSKY~ | | | | | |
|-------------|------------|---------------|------------|-----------------------|-----------------------|------------|------------|---------------|------------|-----------------------|-----------------------|------------|
| Vs [m/s] | Lamda - | Trim [deg] | D/W [%] | Cr 10 ³ | Ct 10 ³ | R [lbs] | Lamda - | Trim [deg] | D/W [%] | Cr 10 ³ | Ct 10 ³ | R [lbs] |
| 1.00 | 26.55 | 2.41 | 0.06 | 9.946 | 13.329 | 2.09 | 9.57 | 2.20 | 0.04 | 25.092 | 29.213 | 1.66 |
| 1.26 | 23.97 | 2.50 | 0.06 | 7.165 | 10.468 | 2.37 | 9.49 | 2.26 | 0.05 | 16.345 | 20.283 | 1.82 |
| 1.53 | 22.03 | 2.59 | 0.07 | 5.538 | 8.778 | 2.66 | 9.39 | 2.34 | 0.05 | 11.688 | 15.491 | 2.01 |
| 1.79 | 20.45 | 2.68 | 0.08 | 4.500 | 7.691 | 2.98 | 9.28 | 2.42 | 0.06 | 8.922 | 12.618 | 2.22 |
| 2.05 | 19.13 | 2.78 | 0.09 | 3.799 | 6.951 | 3.31 | 9.14 | 2.51 | 0.07 | 7.150 | 10.761 | 2.45 |
| 2.32 | 17.98 | 2.90 | 0.10 | 3.307 | 6.426 | 3.66 | 8.98 | 2.61 | 0.07 | 5.954 | 9.495 | 2.71 |
| 2.58 | 16.94 | 3.02 | 0.11 | 2.952 | 6.045 | 4.02 | 8.80 | 2.73 | 0.08 | 5.116 | 8.599 | 2.98 |
| 2.84 | 16.00 | 3.16 | 0.12 | 2.694 | 5.765 | 4.39 | 8.61 | 2.86 | 0.09 | 4.512 | 7.947 | 3.27 |
| 3.11 | 15.12 | 3.31 | 0.13 | 2.505 | 5.559 | 4.77 | 8.39 | 3.00 | 0.10 | 4.069 | 7.464 | 3.57 |
| 3.37 | 14.30 | 3.47 | 0.14 | 2.367 | 5.408 | 5.16 | 8.16 | 3.15 | 0.10 | 3.740 | 7.102 | 3.89 |
| 3.63 | 13.52 | 3.65 | 0.15 | 2.268 | 5.299 | 5.55 | 7.92 | 3.31 | 0.11 | 3.494 | 6.828 | 4.21 |
| 3.89 | 12.78 | 3.84 | 0.16 | 2.197 | 5.222 | 5.94 | 7.67 | 3.49 | 0.12 | 3.307 | 6.618 | 4.54 |
| 4.16 | 12.08 | 4.03 | 0.17 | 2.146 | 5.166 | 6.32 | 7.41 | 3.67 | 0.13 | 3.162 | 6.455 | 4.87 |
| 4.42 | 11.42 | 4.22 | 0.18 | 2.105 | 5.123 | 6.69 | 7.15 | 3.85 | 0.14 | 3.044 | 6.322 | 5.20 |
| 4.68 | 10.81 | 4.39 | 0.19 | 2.066 | 5.083 | 7.05 | 7.05 | 4.02 | 0.15 | 2.875 | 6.127 | 5.58 |
| 4.95 | 10.26 | 4.54 | 0.20 | 2.022 | 5.038 | 7.38 | 6.79 | 4.17 | 0.16 | 2.783 | 6.025 | 5.89 |
| 5.21 | 9.75 | 4.65 | 0.21 | 1.968 | 4.983 | 7.70 | 6.55 | 4.31 | 0.17 | 2.687 | 5.921 | 6.18 |
| 5.47 | 9.31 | 4.73 | 0.22 | 1.900 | 4.914 | 7.99 | 6.33 | 4.41 | 0.17 | 2.583 | 5.808 | 6.47 |
| 5.74 | 8.92 | 4.76 | 0.22 | 1.819 | 4.831 | 8.26 | 6.14 | 4.49 | 0.18 | 2.470 | 5.686 | 6.74 |
| 6.00 | 8.58 | 4.75 | 0.23 | 1.729 | 4.738 | 8.51 | 5.97 | 4.53 | 0.19 | 2.348 | 5.554 | 6.99 |



b=30.00 deg Bc=0.21 m Disp=16.85 kp LCG=0.75 m

| ~CAHI~ | | | | | | | ~SAVITSKY~ | | | | | |
|-------------|------------|---------------|------------|-----------------------|-----------------------|------------|------------|---------------|------------|-----------------------|-----------------------|------------|
| Vs [m/s] | Lamda - | Trim [deg] | D/W [%] | Cr 10 ³ | Ct 10 ³ | R [lbs] | Lamda - | Trim [deg] | D/W [%] | Cr 10 ³ | Ct 10 ³ | R [lbs] |
| 1.00 | 30.33 | 1.99 | 0.05 | 7.178 | 10.479 | 1.88 | 10.43 | 1.81 | 0.04 | 18.967 | 23.017 | 1.42 |
| 1.26 | 27.38 | 2.07 | 0.06 | 5.185 | 8.408 | 2.17 | 10.36 | 1.86 | 0.04 | 12.313 | 16.184 | 1.59 |
| 1.53 | 25.16 | 2.14 | 0.07 | 4.008 | 7.172 | 2.49 | 10.26 | 1.92 | 0.05 | 8.768 | 12.505 | 1.77 |
| 1.79 | 23.38 | 2.22 | 0.08 | 3.253 | 6.369 | 2.82 | 10.15 | 1.98 | 0.05 | 6.658 | 10.290 | 1.98 |
| 2.05 | 21.89 | 2.30 | 0.09 | 2.738 | 5.815 | 3.17 | 10.03 | 2.05 | 0.06 | 5.304 | 8.851 | 2.22 |
| 2.32 | 20.60 | 2.39 | 0.10 | 2.373 | 5.418 | 3.54 | 9.88 | 2.12 | 0.07 | 4.386 | 7.863 | 2.47 |
| 2.58 | 19.45 | 2.48 | 0.11 | 2.108 | 5.126 | 3.92 | 9.72 | 2.21 | 0.07 | 3.739 | 7.158 | 2.74 |
| 2.84 | 18.42 | 2.58 | 0.12 | 1.911 | 4.907 | 4.31 | 9.54 | 2.30 | 0.08 | 3.270 | 6.639 | 3.03 |
| 3.11 | 17.46 | 2.70 | 0.13 | 1.763 | 4.741 | 4.71 | 9.34 | 2.40 | 0.09 | 2.922 | 6.250 | 3.33 |
| 3.37 | 16.56 | 2.82 | 0.14 | 1.653 | 4.616 | 5.12 | 9.13 | 2.51 | 0.10 | 2.660 | 5.952 | 3.65 |
| 3.63 | 15.72 | 2.95 | 0.15 | 1.570 | 4.523 | 5.53 | 8.90 | 2.63 | 0.11 | 2.461 | 5.724 | 3.98 |
| 3.89 | 14.92 | 3.09 | 0.16 | 1.510 | 4.453 | 5.94 | 8.66 | 2.76 | 0.12 | 2.308 | 5.547 | 4.31 |
| 4.16 | 14.15 | 3.24 | 0.17 | 1.465 | 4.402 | 6.34 | 8.41 | 2.90 | 0.13 | 2.190 | 5.408 | 4.65 |
| 4.42 | 13.43 | 3.40 | 0.18 | 1.432 | 4.365 | 6.74 | 8.15 | 3.04 | 0.13 | 2.098 | 5.299 | 4.99 |
| 4.68 | 12.74 | 3.55 | 0.19 | 1.407 | 4.337 | 7.13 | 7.89 | 3.18 | 0.14 | 2.023 | 5.210 | 5.32 |
| 4.95 | 12.11 | 3.69 | 0.20 | 1.383 | 4.312 | 7.50 | 7.63 | 3.32 | 0.15 | 1.959 | 5.134 | 5.66 |
| 5.21 | 11.52 | 3.82 | 0.21 | 1.358 | 4.286 | 7.86 | 7.38 | 3.45 | 0.16 | 1.901 | 5.065 | 5.98 |
| 5.47 | 10.98 | 3.92 | 0.22 | 1.328 | 4.256 | 8.20 | 7.14 | 3.57 | 0.17 | 1.842 | 4.997 | 6.30 |
| 5.74 | 10.49 | 4.00 | 0.23 | 1.291 | 4.218 | 8.53 | 6.92 | 3.67 | 0.18 | 1.781 | 4.928 | 6.61 |
| 6.00 | 10.06 | 4.04 | 0.24 | 1.246 | 4.172 | 8.84 | 6.72 | 3.75 | 0.19 | 1.716 | 4.854 | 6.91 |



Simulation Info:

28/06/2019 04:34:26 pm

Input Data:

Ship Speed: from Vs1=1.00 m/s to Vs2=6.00 m/s (for 20 different Ship Speed values)

Ship Displacement: Disp=28.17 kp

Breadth at Chine: Bc=0.57 m

Deadrise Angle: b=20.00 deg

LCG: LCG=0.75 m

Fresh water properties at 20.00C:

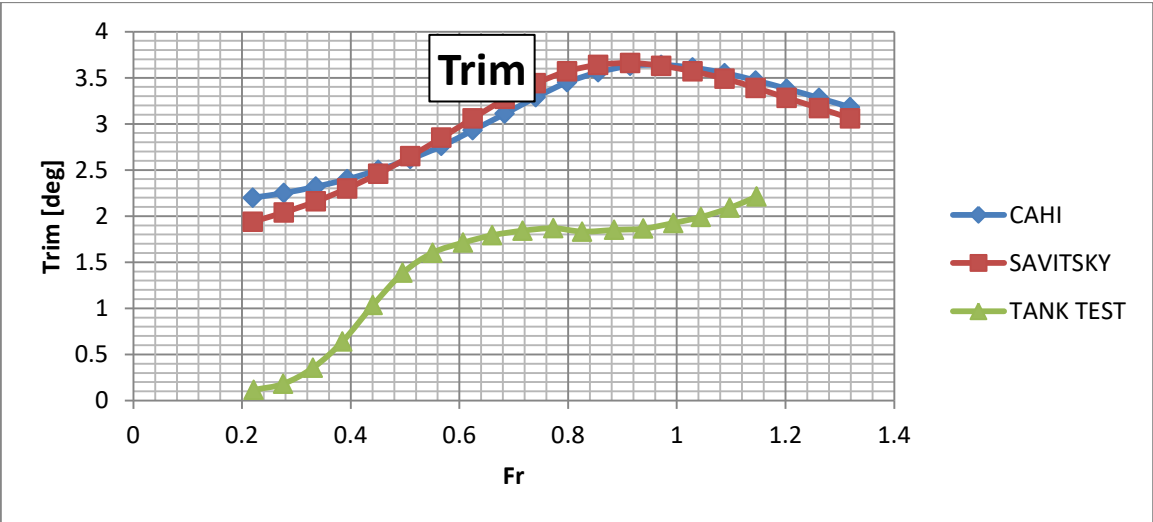
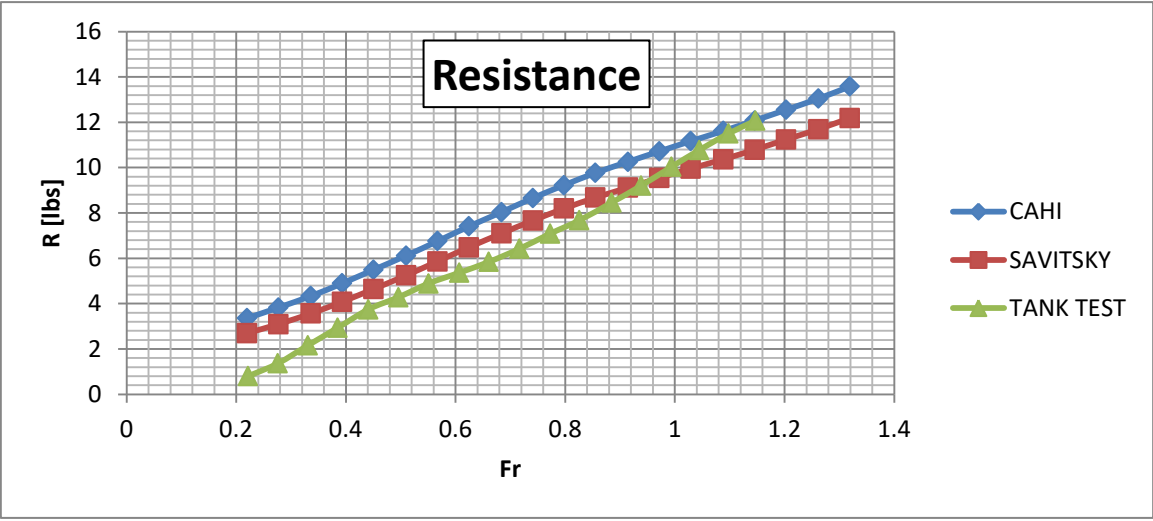
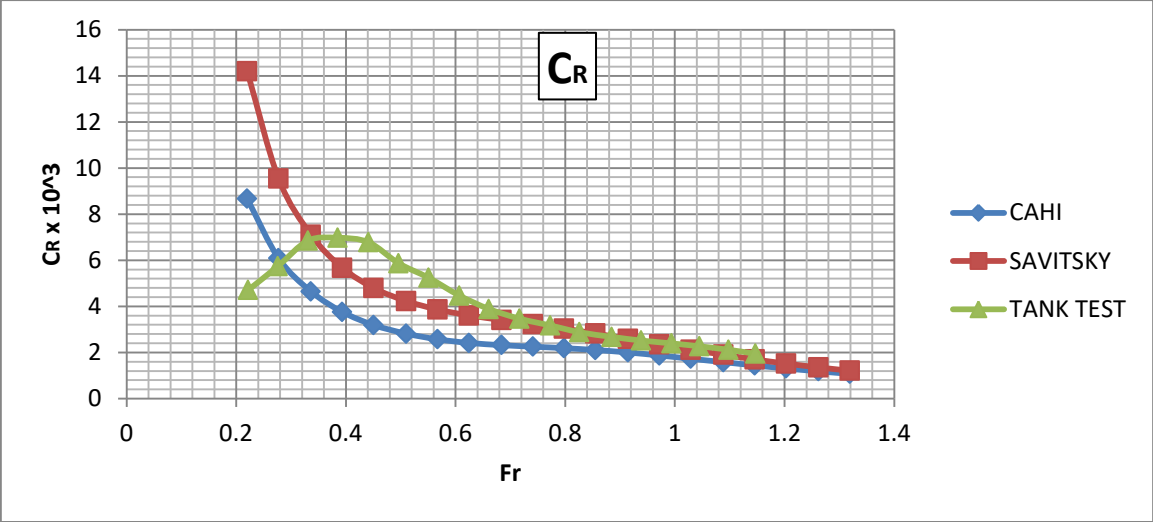
Density=998.10 kg/m³

Viscosity=1.00374*10⁻⁶ m²/s

Results:

b=20.00 deg Bc=0.57 m Disp=28.17 kp LCG=0.75 m

| ~CAHI~ | | | | | | | ~SAVITSKY~ | | | | | |
|--------|-------|-------|------|-----------------|-----------------|-------|------------|-------|------|-----------------|-----------------|-------|
| Vs | Lamda | Trim | D/W | Cr | Ct | R | Lamda | Trim | D/W | Cr | Ct | R |
| [m/s] | - | [deg] | [%] | 10 ³ | 10 ³ | [lbs] | - | [deg] | [%] | 10 ³ | 10 ³ | [lbs] |
| 1.00 | 7.08 | 2.20 | 0.05 | 8.668 | 12.206 | 3.36 | 3.82 | 1.94 | 0.04 | 14.199 | 18.187 | 2.70 |
| 1.26 | 6.47 | 2.25 | 0.06 | 6.090 | 9.533 | 3.83 | 3.74 | 2.04 | 0.05 | 9.547 | 13.370 | 3.10 |
| 1.53 | 5.99 | 2.32 | 0.07 | 4.642 | 8.015 | 4.34 | 3.65 | 2.16 | 0.06 | 7.098 | 10.801 | 3.57 |
| 1.79 | 5.57 | 2.40 | 0.08 | 3.757 | 7.076 | 4.90 | 3.54 | 2.30 | 0.07 | 5.673 | 9.287 | 4.09 |
| 2.05 | 5.21 | 2.50 | 0.09 | 3.188 | 6.467 | 5.50 | 3.41 | 2.46 | 0.07 | 4.793 | 8.339 | 4.65 |
| 2.32 | 4.86 | 2.62 | 0.10 | 2.815 | 6.063 | 6.12 | 3.27 | 2.65 | 0.08 | 4.231 | 7.725 | 5.25 |
| 2.58 | 4.53 | 2.76 | 0.11 | 2.571 | 5.797 | 6.76 | 3.12 | 2.85 | 0.09 | 3.862 | 7.318 | 5.87 |
| 2.84 | 4.22 | 2.93 | 0.12 | 2.415 | 5.627 | 7.41 | 2.96 | 3.06 | 0.10 | 3.608 | 7.036 | 6.49 |
| 3.11 | 3.92 | 3.11 | 0.13 | 2.318 | 5.522 | 8.04 | 2.80 | 3.27 | 0.11 | 3.412 | 6.819 | 7.10 |
| 3.37 | 3.64 | 3.29 | 0.14 | 2.251 | 5.452 | 8.66 | 2.65 | 3.44 | 0.12 | 3.231 | 6.620 | 7.67 |
| 3.63 | 3.39 | 3.45 | 0.15 | 2.188 | 5.387 | 9.23 | 2.52 | 3.57 | 0.13 | 3.037 | 6.411 | 8.20 |
| 3.89 | 3.17 | 3.56 | 0.16 | 2.107 | 5.305 | 9.77 | 2.41 | 3.64 | 0.14 | 2.821 | 6.181 | 8.68 |
| 4.16 | 2.99 | 3.63 | 0.17 | 2.000 | 5.194 | 10.26 | 2.32 | 3.66 | 0.15 | 2.590 | 5.934 | 9.12 |
| 4.42 | 2.84 | 3.64 | 0.17 | 1.870 | 5.059 | 10.72 | 2.24 | 3.63 | 0.15 | 2.353 | 5.680 | 9.55 |
| 4.68 | 2.71 | 3.61 | 0.18 | 1.727 | 4.909 | 11.17 | 2.18 | 3.57 | 0.16 | 2.121 | 5.430 | 9.96 |
| 4.95 | 2.61 | 3.55 | 0.19 | 1.581 | 4.753 | 11.62 | 2.12 | 3.49 | 0.17 | 1.902 | 5.193 | 10.37 |
| 5.21 | 2.53 | 3.47 | 0.19 | 1.439 | 4.600 | 12.08 | 2.08 | 3.39 | 0.17 | 1.700 | 4.972 | 10.79 |
| 5.47 | 2.46 | 3.38 | 0.20 | 1.306 | 4.455 | 12.55 | 2.04 | 3.28 | 0.18 | 1.517 | 4.770 | 11.24 |
| 5.74 | 2.40 | 3.28 | 0.21 | 1.183 | 4.320 | 13.05 | 2.01 | 3.17 | 0.19 | 1.353 | 4.588 | 11.70 |
| 6.00 | 2.34 | 3.18 | 0.22 | 1.072 | 4.196 | 13.58 | 1.99 | 3.06 | 0.20 | 1.208 | 4.424 | 12.19 |



Simulation Info:

28/06/2019 04:34:53 pm

Input Data:

Ship Speed: from Vs1=1.00 m/s to Vs2=6.00 m/s (for 20 different Ship Speed values)

Ship Displacement: Disp=33.99 kp

Breadth at Chine: Bc=0.57 m

Deadrise Angle: b=20.00 deg

LCG: LCG=0.75 m

Fresh water properties at 20.00C:

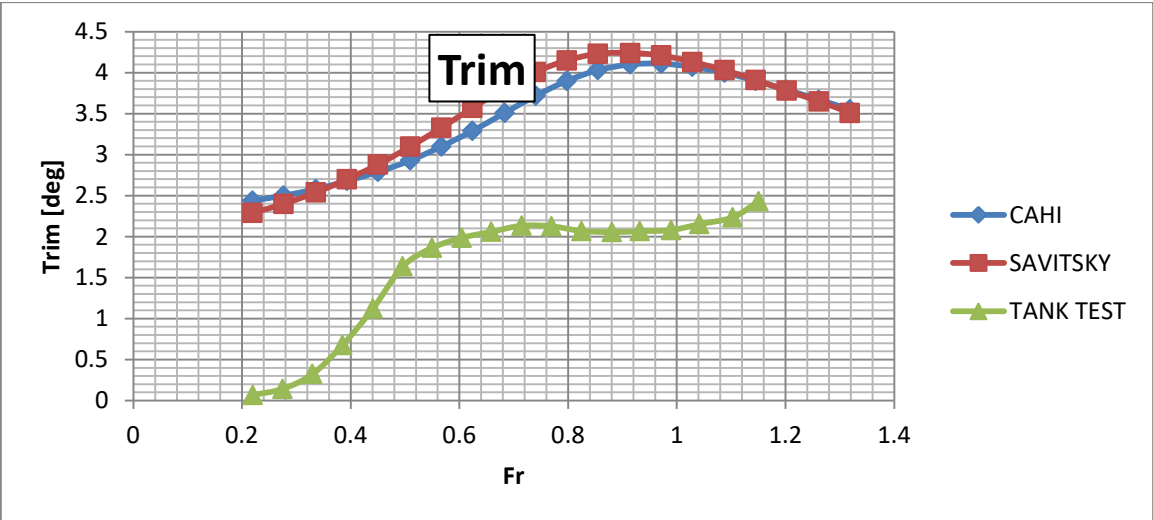
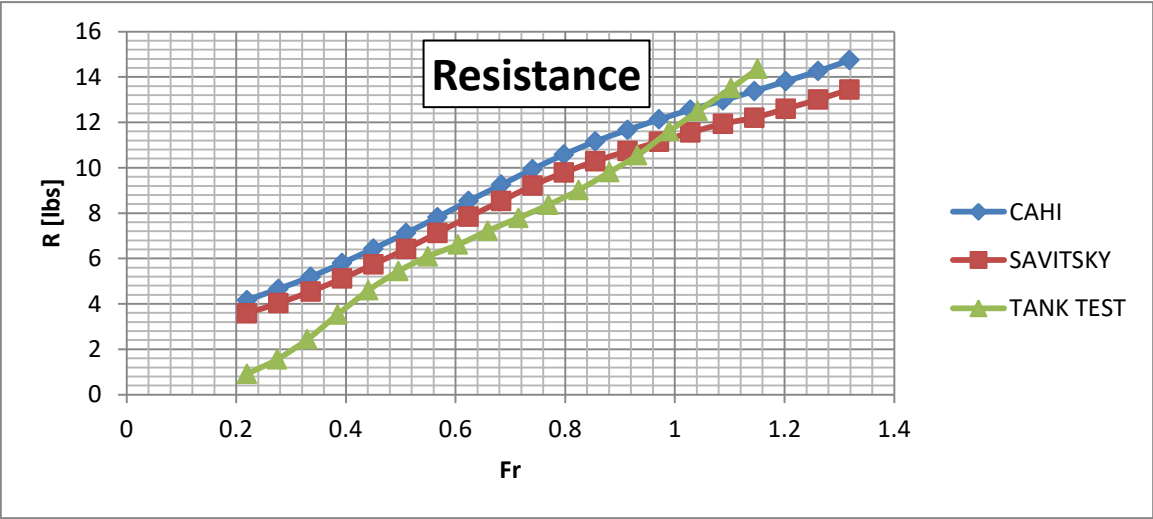
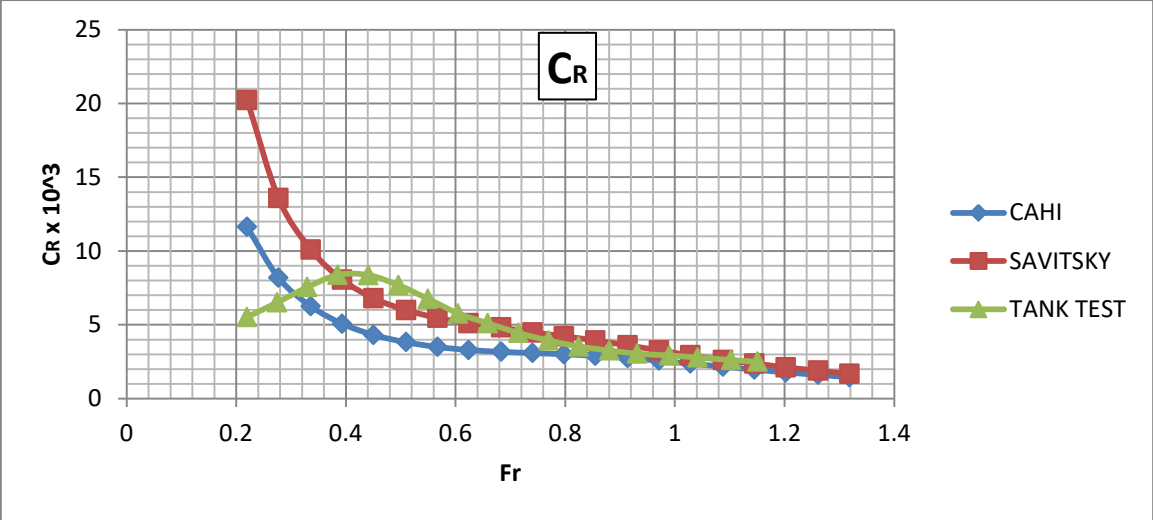
Density=998.10 kg/m³

Viscosity=1.00374*10⁻⁶ m²/s

Results:

b=20.00 deg Bc=0.57 m Disp=33.99 kp LCG=0.75 m

| ~CAHI~ | | | | | | | ~SAVITSKY~ | | | | | |
|--------|-------|-------|------|-----------------|-----------------|-------|------------|-------|------|-----------------|-----------------|-------|
| Vs | Lamda | Trim | D/W | Cr | Ct | R | Lamda | Trim | D/W | Cr | Ct | R |
| [m/s] | - | [deg] | [%] | 10 ³ | 10 ³ | [lbs] | - | [deg] | [%] | 10 ³ | 10 ³ | [lbs] |
| 1.00 | 7.07 | 2.44 | 0.06 | 11.636 | 15.174 | 4.17 | 3.82 | 2.29 | 0.05 | 20.232 | 24.221 | 3.59 |
| 1.26 | 6.47 | 2.50 | 0.06 | 8.187 | 11.631 | 4.66 | 3.74 | 2.40 | 0.05 | 13.586 | 17.410 | 4.03 |
| 1.53 | 5.99 | 2.58 | 0.07 | 6.252 | 9.625 | 5.20 | 3.65 | 2.54 | 0.06 | 10.088 | 13.792 | 4.55 |
| 1.79 | 5.57 | 2.68 | 0.08 | 5.070 | 8.390 | 5.80 | 3.54 | 2.70 | 0.07 | 8.054 | 11.668 | 5.12 |
| 2.05 | 5.20 | 2.79 | 0.09 | 4.313 | 7.592 | 6.44 | 3.41 | 2.88 | 0.08 | 6.798 | 10.344 | 5.75 |
| 2.32 | 4.86 | 2.93 | 0.09 | 3.817 | 7.066 | 7.12 | 3.27 | 3.10 | 0.09 | 5.994 | 9.489 | 6.42 |
| 2.58 | 4.53 | 3.10 | 0.10 | 3.496 | 6.723 | 7.82 | 3.11 | 3.33 | 0.10 | 5.466 | 8.923 | 7.13 |
| 2.84 | 4.22 | 3.29 | 0.11 | 3.293 | 6.506 | 8.54 | 2.96 | 3.57 | 0.10 | 5.103 | 8.531 | 7.84 |
| 3.11 | 3.92 | 3.51 | 0.12 | 3.169 | 6.374 | 9.25 | 2.80 | 3.81 | 0.11 | 4.821 | 8.229 | 8.53 |
| 3.37 | 3.64 | 3.72 | 0.13 | 3.085 | 6.287 | 9.94 | 2.69 | 4.01 | 0.12 | 4.489 | 7.871 | 9.22 |
| 3.63 | 3.39 | 3.90 | 0.14 | 3.004 | 6.204 | 10.58 | 2.55 | 4.15 | 0.13 | 4.229 | 7.597 | 9.79 |
| 3.89 | 3.17 | 4.03 | 0.15 | 2.895 | 6.094 | 11.16 | 2.44 | 4.23 | 0.14 | 3.931 | 7.286 | 10.29 |
| 4.16 | 2.98 | 4.10 | 0.16 | 2.747 | 5.943 | 11.67 | 2.34 | 4.24 | 0.14 | 3.605 | 6.944 | 10.74 |
| 4.42 | 2.83 | 4.11 | 0.16 | 2.566 | 5.757 | 12.13 | 2.27 | 4.21 | 0.15 | 3.266 | 6.587 | 11.15 |
| 4.68 | 2.71 | 4.07 | 0.17 | 2.367 | 5.550 | 12.56 | 2.21 | 4.13 | 0.15 | 2.932 | 6.234 | 11.55 |
| 4.95 | 2.61 | 4.00 | 0.17 | 2.162 | 5.336 | 12.97 | 2.16 | 4.03 | 0.16 | 2.615 | 5.897 | 11.94 |
| 5.21 | 2.53 | 3.90 | 0.18 | 1.964 | 5.127 | 13.38 | 2.08 | 3.91 | 0.16 | 2.378 | 5.652 | 12.21 |
| 5.47 | 2.46 | 3.79 | 0.18 | 1.777 | 4.928 | 13.81 | 2.04 | 3.78 | 0.17 | 2.119 | 5.374 | 12.60 |
| 5.74 | 2.40 | 3.67 | 0.19 | 1.606 | 4.744 | 14.26 | 2.01 | 3.65 | 0.17 | 1.888 | 5.124 | 13.01 |
| 6.00 | 2.34 | 3.55 | 0.20 | 1.451 | 4.576 | 14.74 | 1.99 | 3.51 | 0.18 | 1.684 | 4.901 | 13.45 |



Simulation Info:

28/06/2019 04:35:13 pm

Input Data:

Ship Speed: from Vs1=1.00 m/s to Vs2=6.00 m/s (for 20 different Ship Speed values)

Ship Displacement: Disp=40.46 kp

Breadth at Chine: Bc=0.57 m

Deadrise Angle: b=20.00 deg

LCG: LCG=0.76 m

Fresh water properties at 20.00C:

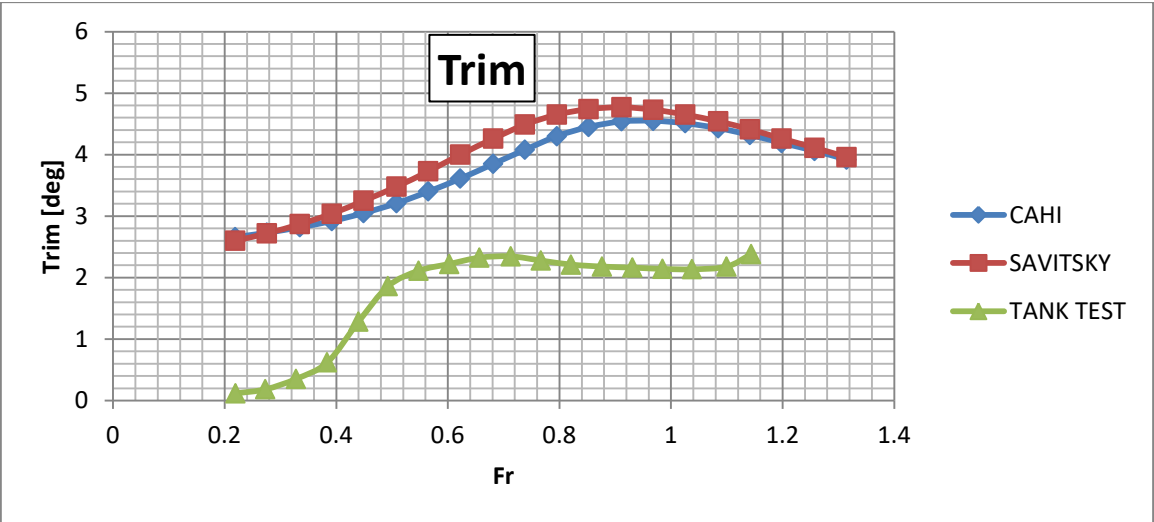
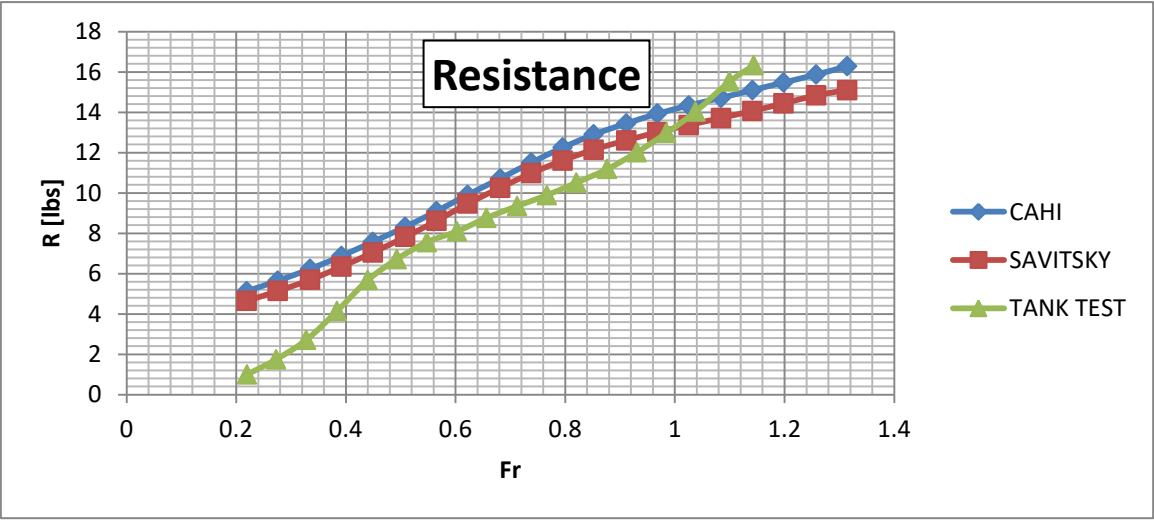
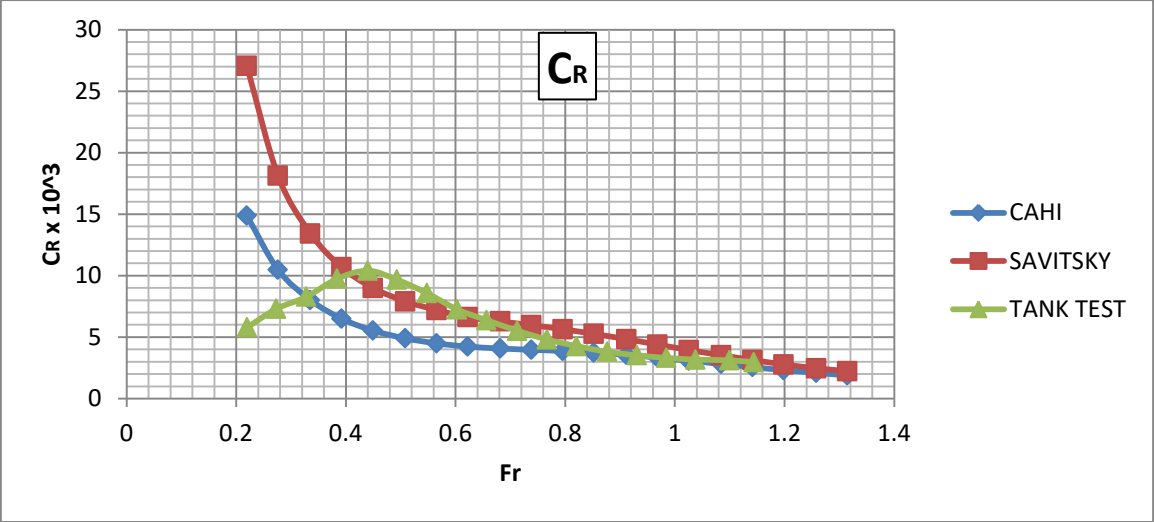
Density=998.10 kg/m³

Viscosity=1.00374*10⁻⁶ m²/s

Results:

b=20.00 deg Bc=0.57 m Disp=40.46 kp LCG=0.76 m

| ~CAHI~ | | | | | | | ~SAVITSKY~ | | | | | |
|--------|-------|-------|------|-----------------|-----------------|-------|------------|-------|------|-----------------|-----------------|-------|
| Vs | Lamda | Trim | D/W | Cr | Ct | R | Lamda | Trim | D/W | Cr | Ct | R |
| [m/s] | - | [deg] | [%] | 10 ³ | 10 ³ | [lbs] | - | [deg] | [%] | 10 ³ | 10 ³ | [lbs] |
| 1.00 | 7.18 | 2.66 | 0.06 | 14.879 | 18.407 | 5.13 | 3.86 | 2.60 | 0.05 | 27.057 | 31.037 | 4.65 |
| 1.26 | 6.57 | 2.73 | 0.06 | 10.479 | 13.914 | 5.65 | 3.79 | 2.72 | 0.06 | 18.128 | 21.943 | 5.14 |
| 1.53 | 6.08 | 2.82 | 0.07 | 8.009 | 11.374 | 6.24 | 3.69 | 2.87 | 0.06 | 13.427 | 17.123 | 5.70 |
| 1.79 | 5.66 | 2.92 | 0.08 | 6.500 | 9.811 | 6.88 | 3.59 | 3.04 | 0.07 | 10.691 | 14.296 | 6.35 |
| 2.05 | 5.29 | 3.05 | 0.08 | 5.533 | 8.803 | 7.58 | 3.46 | 3.25 | 0.08 | 8.997 | 12.535 | 7.05 |
| 2.32 | 4.94 | 3.21 | 0.09 | 4.899 | 8.139 | 8.32 | 3.32 | 3.48 | 0.09 | 7.911 | 11.397 | 7.82 |
| 2.58 | 4.61 | 3.40 | 0.10 | 4.488 | 7.705 | 9.10 | 3.17 | 3.73 | 0.10 | 7.196 | 10.643 | 8.62 |
| 2.84 | 4.30 | 3.61 | 0.11 | 4.229 | 7.432 | 9.91 | 3.05 | 4.00 | 0.11 | 6.612 | 10.022 | 9.47 |
| 3.11 | 4.00 | 3.85 | 0.12 | 4.072 | 7.267 | 10.72 | 2.87 | 4.26 | 0.11 | 6.277 | 9.669 | 10.26 |
| 3.37 | 3.71 | 4.08 | 0.13 | 3.969 | 7.161 | 11.51 | 2.71 | 4.49 | 0.12 | 5.972 | 9.351 | 10.98 |
| 3.63 | 3.46 | 4.30 | 0.14 | 3.872 | 7.063 | 12.25 | 2.56 | 4.65 | 0.13 | 5.640 | 9.007 | 11.61 |
| 3.89 | 3.23 | 4.45 | 0.14 | 3.742 | 6.931 | 12.90 | 2.44 | 4.74 | 0.14 | 5.259 | 8.614 | 12.15 |
| 4.16 | 3.04 | 4.54 | 0.15 | 3.561 | 6.747 | 13.45 | 2.35 | 4.77 | 0.14 | 4.836 | 8.176 | 12.61 |
| 4.42 | 2.89 | 4.55 | 0.16 | 3.334 | 6.516 | 13.93 | 2.27 | 4.73 | 0.15 | 4.392 | 7.714 | 13.01 |
| 4.68 | 2.76 | 4.51 | 0.16 | 3.080 | 6.254 | 14.34 | 2.21 | 4.65 | 0.15 | 3.949 | 7.253 | 13.37 |
| 4.95 | 2.66 | 4.43 | 0.17 | 2.816 | 5.981 | 14.72 | 2.16 | 4.54 | 0.15 | 3.527 | 6.811 | 13.72 |
| 5.21 | 2.57 | 4.32 | 0.17 | 2.558 | 5.712 | 15.10 | 2.13 | 4.41 | 0.16 | 3.136 | 6.399 | 14.07 |
| 5.47 | 2.50 | 4.19 | 0.17 | 2.314 | 5.457 | 15.48 | 2.10 | 4.26 | 0.16 | 2.782 | 6.023 | 14.44 |
| 5.74 | 2.43 | 4.06 | 0.18 | 2.089 | 5.219 | 15.87 | 2.08 | 4.11 | 0.17 | 2.466 | 5.685 | 14.84 |
| 6.00 | 2.38 | 3.92 | 0.18 | 1.884 | 5.002 | 16.29 | 2.01 | 3.96 | 0.17 | 2.236 | 5.446 | 15.10 |



Simulation Info:

28/06/2019 04:35:26 pm

Input Data:

Ship Speed: from Vs1=1.00 m/s to Vs2=6.00 m/s (for 20 different Ship Speed values)

Ship Displacement: Disp=29.61 kp

Breadth at Chine: Bc=0.42 m

Deadrise Angle: b=20.00 deg

LCG: LCG=0.78 m

Fresh water properties at 20.00C:

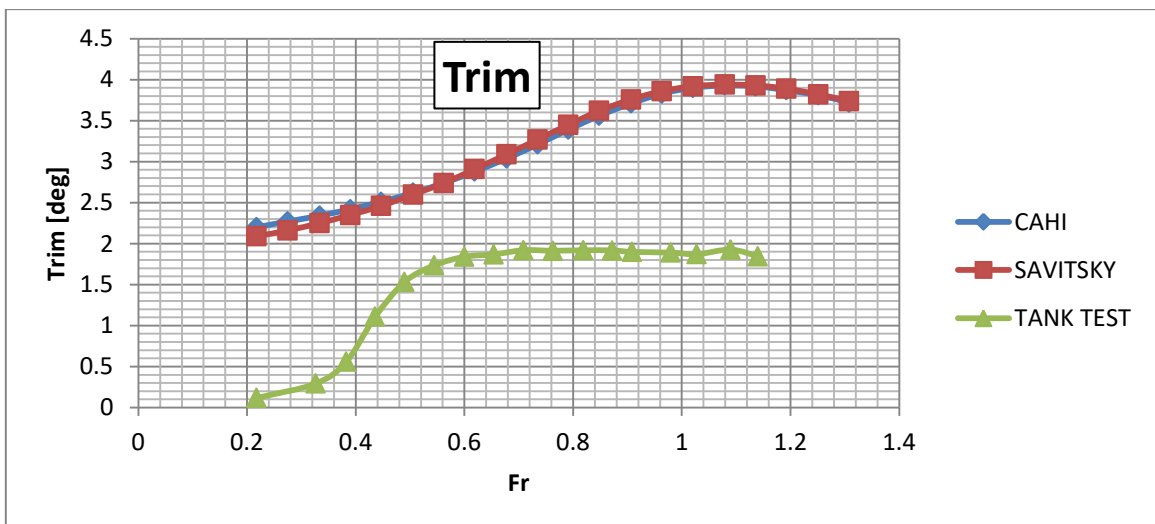
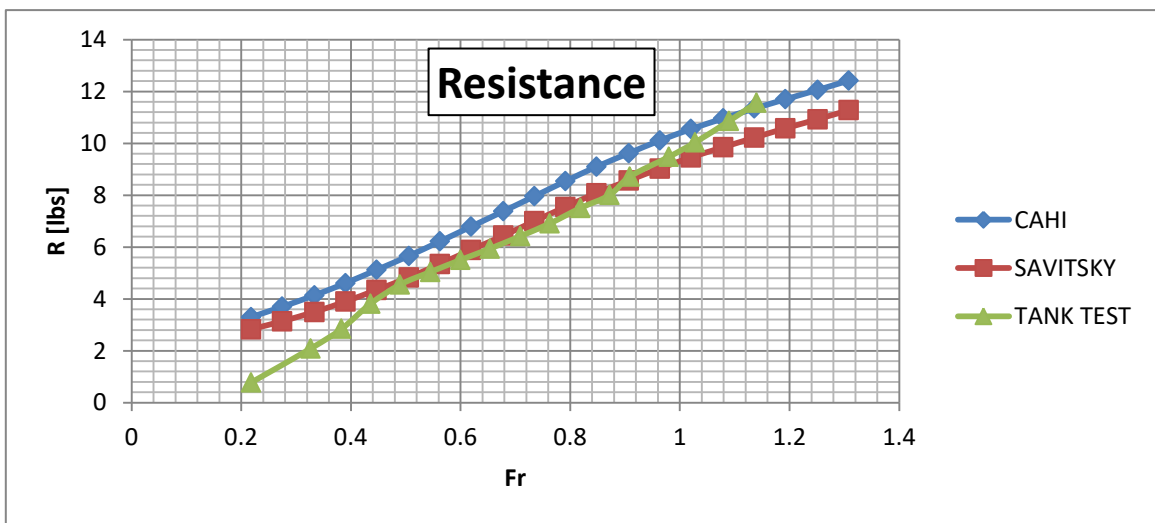
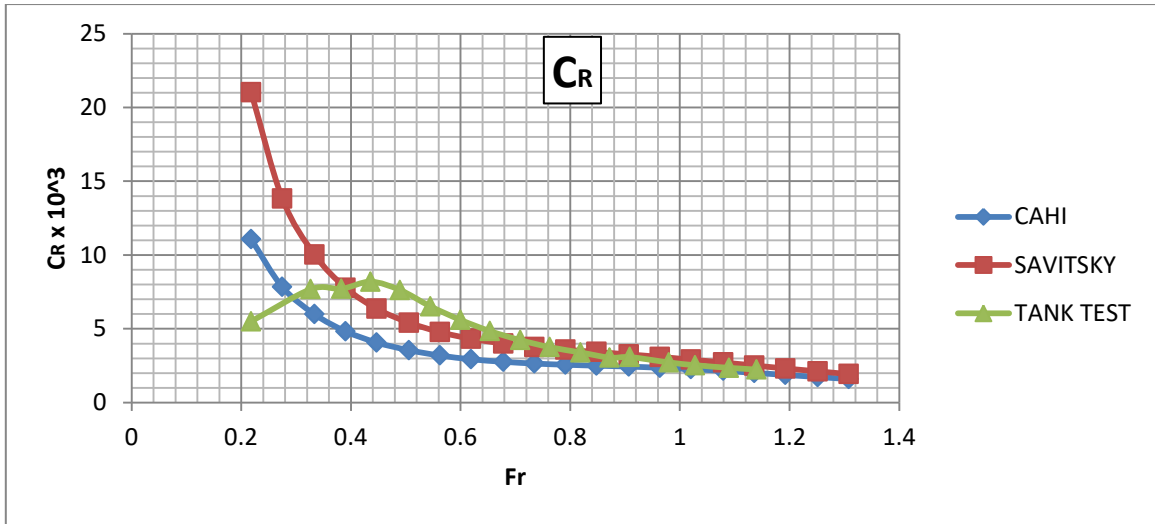
Density=998.10 kg/m³

Viscosity=1.00374*10⁻⁶ m²/s

Results:

b=20.00 deg Bc=0.42 m Disp=29.61 kp LCG=0.78 m

| ~CAHI~ | | | | | | | ~SAVITSKY~ | | | | | |
|--------|-------|-------|------|-----------------|-----------------|-------|------------|-------|------|-----------------|-----------------|-------|
| Vs | Lamda | Trim | D/W | Cr | Ct | R | Lamda | Trim | D/W | Cr | Ct | R |
| [m/s] | - | [deg] | [%] | 10 ³ | 10 ³ | [lbs] | - | [deg] | [%] | 10 ³ | 10 ³ | [lbs] |
| 1.00 | 11.04 | 2.20 | 0.05 | 11.069 | 14.523 | 3.30 | 5.49 | 2.09 | 0.04 | 21.027 | 24.978 | 2.83 |
| 1.26 | 10.07 | 2.27 | 0.06 | 7.835 | 11.201 | 3.70 | 5.42 | 2.16 | 0.05 | 13.839 | 17.623 | 3.14 |
| 1.53 | 9.31 | 2.34 | 0.06 | 5.987 | 9.284 | 4.14 | 5.33 | 2.25 | 0.05 | 10.030 | 13.690 | 3.50 |
| 1.79 | 8.69 | 2.42 | 0.07 | 4.833 | 8.078 | 4.61 | 5.23 | 2.35 | 0.06 | 7.784 | 11.348 | 3.90 |
| 2.05 | 8.14 | 2.51 | 0.08 | 4.071 | 7.274 | 5.12 | 5.10 | 2.46 | 0.07 | 6.362 | 9.851 | 4.35 |
| 2.32 | 7.65 | 2.62 | 0.09 | 3.551 | 6.721 | 5.66 | 4.96 | 2.60 | 0.07 | 5.420 | 8.849 | 4.83 |
| 2.58 | 7.20 | 2.74 | 0.10 | 3.189 | 6.333 | 6.22 | 4.81 | 2.74 | 0.08 | 4.775 | 8.157 | 5.35 |
| 2.84 | 6.78 | 2.88 | 0.10 | 2.937 | 6.061 | 6.79 | 4.64 | 2.91 | 0.09 | 4.326 | 7.670 | 5.89 |
| 3.11 | 6.37 | 3.04 | 0.11 | 2.764 | 5.873 | 7.38 | 4.46 | 3.09 | 0.10 | 4.007 | 7.322 | 6.44 |
| 3.37 | 5.99 | 3.21 | 0.12 | 2.646 | 5.745 | 7.96 | 4.27 | 3.27 | 0.11 | 3.773 | 7.064 | 7.00 |
| 3.63 | 5.62 | 3.39 | 0.13 | 2.565 | 5.658 | 8.54 | 4.09 | 3.45 | 0.12 | 3.589 | 6.863 | 7.55 |
| 3.89 | 5.28 | 3.56 | 0.14 | 2.502 | 5.591 | 9.10 | 3.91 | 3.62 | 0.12 | 3.427 | 6.687 | 8.08 |
| 4.16 | 4.96 | 3.71 | 0.15 | 2.439 | 5.526 | 9.62 | 3.74 | 3.76 | 0.13 | 3.267 | 6.514 | 8.57 |
| 4.42 | 4.69 | 3.83 | 0.15 | 2.362 | 5.449 | 10.11 | 3.59 | 3.86 | 0.14 | 3.097 | 6.332 | 9.03 |
| 4.68 | 4.44 | 3.90 | 0.16 | 2.265 | 5.350 | 10.55 | 3.46 | 3.92 | 0.14 | 2.912 | 6.136 | 9.46 |
| 4.95 | 4.24 | 3.93 | 0.17 | 2.148 | 5.229 | 10.96 | 3.34 | 3.94 | 0.15 | 2.716 | 5.928 | 9.85 |
| 5.21 | 4.06 | 3.92 | 0.17 | 2.016 | 5.092 | 11.34 | 3.24 | 3.93 | 0.16 | 2.514 | 5.713 | 10.22 |
| 5.47 | 3.91 | 3.87 | 0.18 | 1.876 | 4.946 | 11.70 | 3.16 | 3.89 | 0.16 | 2.312 | 5.498 | 10.58 |
| 5.74 | 3.78 | 3.81 | 0.18 | 1.734 | 4.796 | 12.06 | 3.09 | 3.82 | 0.17 | 2.117 | 5.289 | 10.93 |
| 6.00 | 3.67 | 3.72 | 0.19 | 1.595 | 4.649 | 12.42 | 3.03 | 3.74 | 0.17 | 1.932 | 5.090 | 11.28 |



Simulation Info:

28/06/2019 04:35:39 pm

Input Data:

Ship Speed: from Vs1=1.00 m/s to Vs2=6.00 m/s (for 20 different Ship Speed values)

Ship Displacement: Disp=36.51 kp

Breadth at Chine: Bc=0.42 m

Deadrise Angle: b=20.00 deg

LCG: LCG=0.79 m

Fresh water properties at 20.00C:

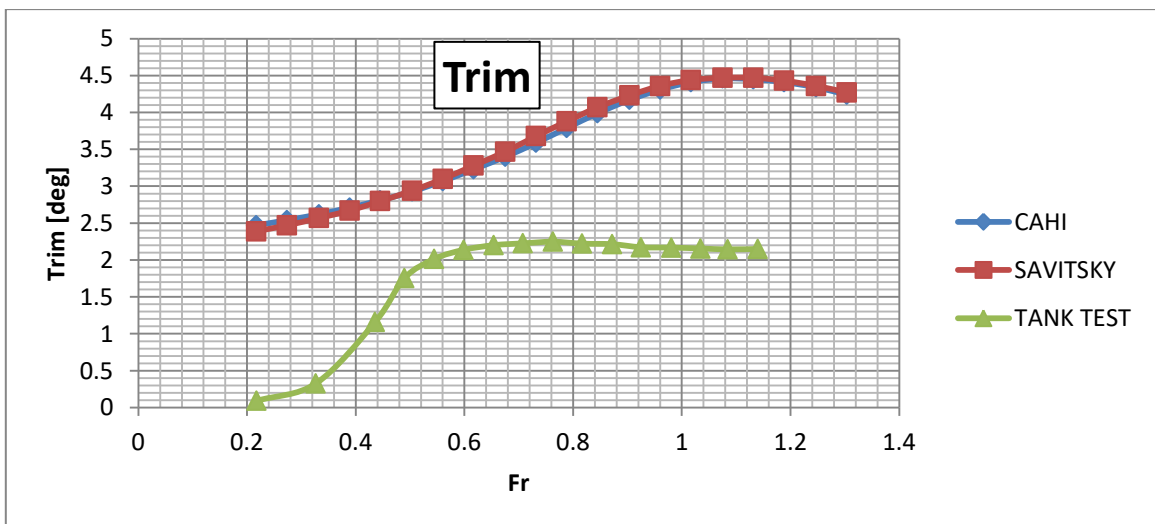
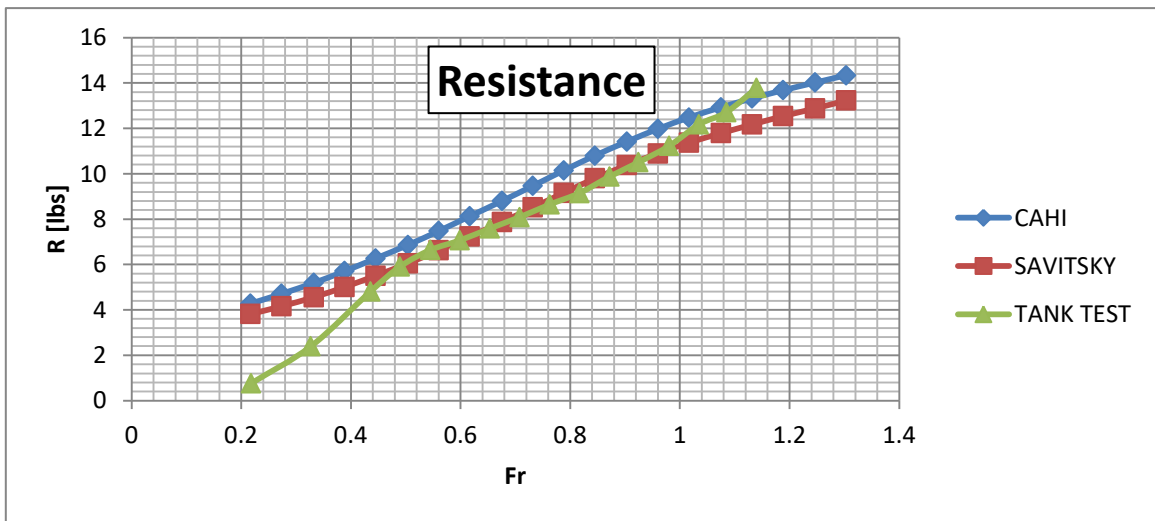
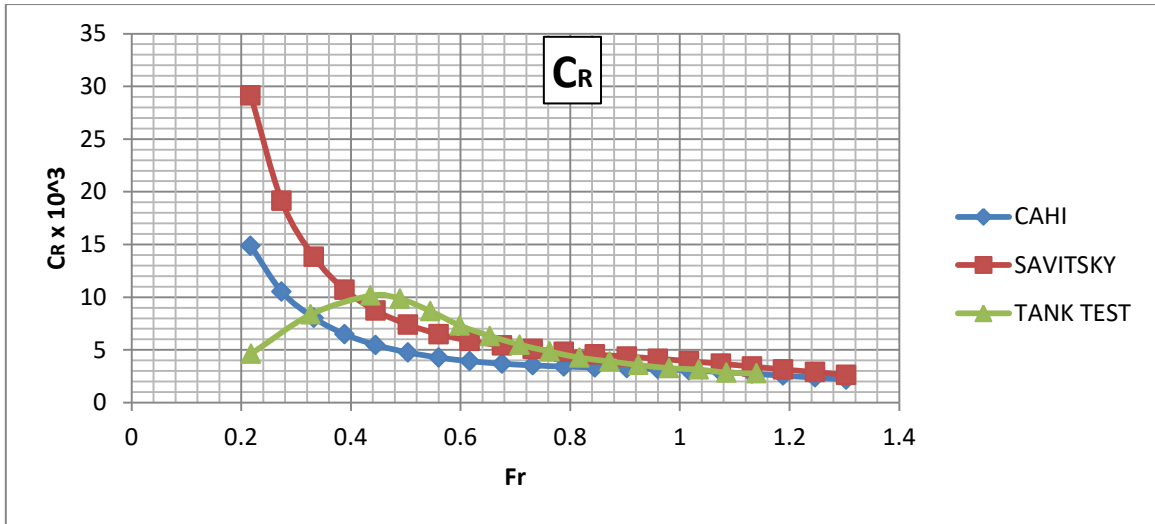
Density=998.10 kg/m³

Viscosity=1.00374*10⁻⁶ m²/s

Results:

b=20.00 deg Bc=0.42 m Disp=36.51 kp LCG=0.79 m

| ~CAHI~ | | | | | | | ~SAVITSKY~ | | | | | |
|--------|-------|-------|------|-----------------|-----------------|-------|------------|-------|------|-----------------|-----------------|-------|
| Vs | Lamda | Trim | D/W | Cr | Ct | R | Lamda | Trim | D/W | Cr | Ct | R |
| [m/s] | - | [deg] | [%] | 10 ³ | 10 ³ | [lbs] | - | [deg] | [%] | 10 ³ | 10 ³ | [lbs] |
| 1.00 | 11.38 | 2.47 | 0.05 | 14.868 | 18.304 | 4.28 | 5.61 | 2.39 | 0.05 | 29.152 | 33.087 | 3.82 |
| 1.26 | 10.37 | 2.54 | 0.06 | 10.524 | 13.871 | 4.71 | 5.54 | 2.47 | 0.05 | 19.138 | 22.906 | 4.16 |
| 1.53 | 9.59 | 2.62 | 0.06 | 8.039 | 11.319 | 5.19 | 5.45 | 2.57 | 0.06 | 13.831 | 17.476 | 4.56 |
| 1.79 | 8.95 | 2.71 | 0.07 | 6.487 | 9.715 | 5.71 | 5.35 | 2.67 | 0.06 | 10.700 | 14.249 | 5.01 |
| 2.05 | 8.40 | 2.81 | 0.08 | 5.462 | 8.648 | 6.27 | 5.23 | 2.80 | 0.07 | 8.716 | 12.190 | 5.51 |
| 2.32 | 7.90 | 2.93 | 0.09 | 4.760 | 7.913 | 6.86 | 5.09 | 2.94 | 0.08 | 7.397 | 10.811 | 6.05 |
| 2.58 | 7.44 | 3.07 | 0.09 | 4.271 | 7.397 | 7.48 | 4.94 | 3.10 | 0.08 | 6.493 | 9.858 | 6.63 |
| 2.84 | 7.01 | 3.23 | 0.10 | 3.928 | 7.034 | 8.13 | 4.77 | 3.28 | 0.09 | 5.859 | 9.187 | 7.24 |
| 3.11 | 6.60 | 3.40 | 0.11 | 3.691 | 6.782 | 8.80 | 4.59 | 3.47 | 0.10 | 5.407 | 8.705 | 7.87 |
| 3.37 | 6.20 | 3.59 | 0.12 | 3.530 | 6.610 | 9.47 | 4.41 | 3.68 | 0.11 | 5.077 | 8.351 | 8.52 |
| 3.63 | 5.83 | 3.79 | 0.13 | 3.420 | 6.494 | 10.15 | 4.22 | 3.88 | 0.11 | 4.822 | 8.077 | 9.16 |
| 3.89 | 5.48 | 3.99 | 0.13 | 3.337 | 6.407 | 10.80 | 4.08 | 4.07 | 0.12 | 4.562 | 7.797 | 9.80 |
| 4.16 | 5.16 | 4.17 | 0.14 | 3.260 | 6.328 | 11.42 | 3.89 | 4.23 | 0.13 | 4.366 | 7.590 | 10.38 |
| 4.42 | 4.87 | 4.31 | 0.15 | 3.168 | 6.235 | 11.98 | 3.73 | 4.36 | 0.14 | 4.158 | 7.372 | 10.90 |
| 4.68 | 4.61 | 4.41 | 0.16 | 3.051 | 6.116 | 12.48 | 3.58 | 4.44 | 0.14 | 3.929 | 7.133 | 11.37 |
| 4.95 | 4.39 | 4.46 | 0.16 | 2.906 | 5.968 | 12.93 | 3.46 | 4.47 | 0.15 | 3.679 | 6.872 | 11.79 |
| 5.21 | 4.21 | 4.45 | 0.17 | 2.738 | 5.795 | 13.32 | 3.36 | 4.47 | 0.15 | 3.417 | 6.598 | 12.17 |
| 5.47 | 4.05 | 4.41 | 0.17 | 2.555 | 5.607 | 13.68 | 3.27 | 4.43 | 0.16 | 3.150 | 6.318 | 12.54 |
| 5.74 | 3.91 | 4.34 | 0.17 | 2.368 | 5.413 | 14.02 | 3.20 | 4.36 | 0.16 | 2.888 | 6.041 | 12.88 |
| 6.00 | 3.79 | 4.24 | 0.18 | 2.182 | 5.220 | 14.34 | 3.14 | 4.27 | 0.16 | 2.636 | 5.774 | 13.23 |



Simulation Info:

 28/06/2019 04:35:59 pm

Input Data:

 Ship Speed: from Vs1=1.00 m/s to Vs2=6.00 m/s (for 20 different Ship Speed values)

Ship Displacement: Disp=44.53 kp

Breadth at Chine: Bc=0.42 m

Deadrise Angle: b=20.00 deg

LCG: LCG=0.81 m

Fresh water properties at 20.00C:

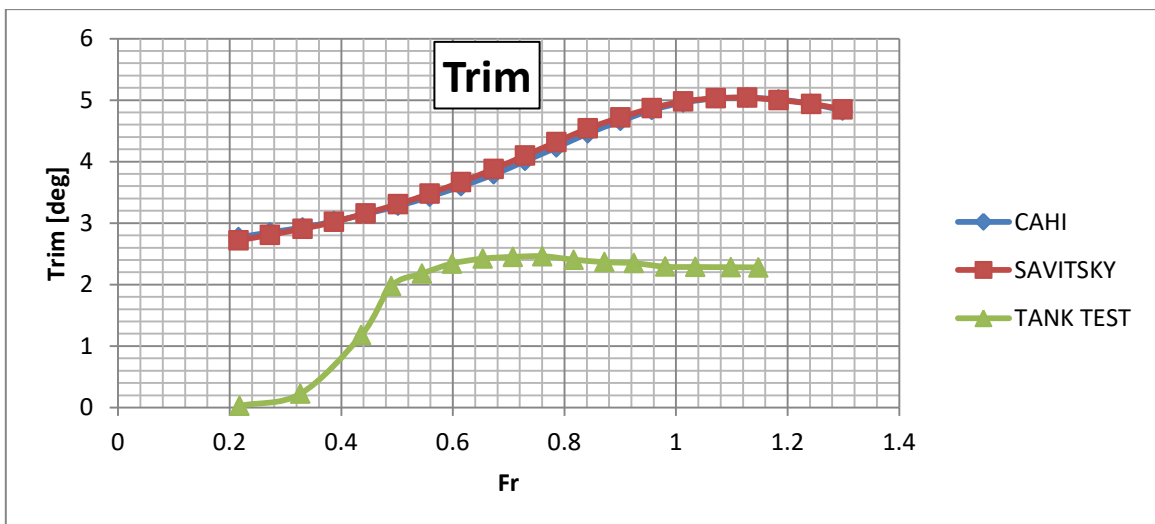
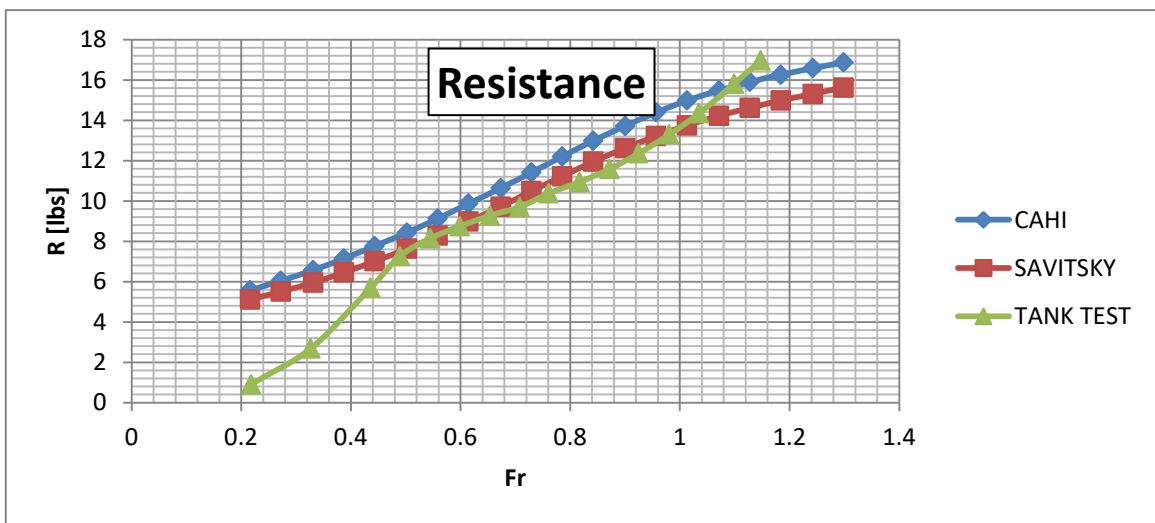
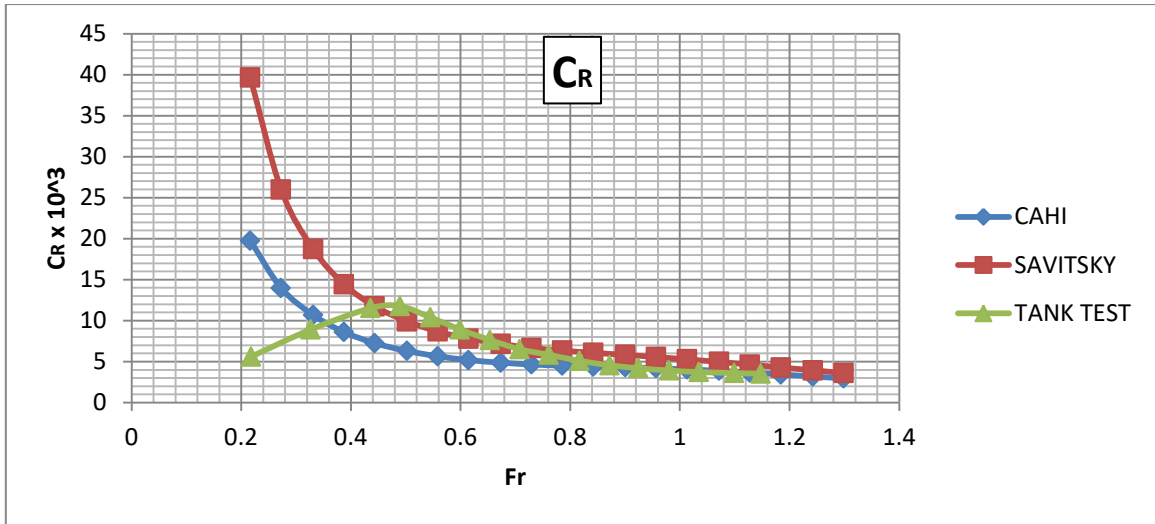
Density=998.10 kg/m³

Viscosity=1.00374*10⁻⁶ m²/s

Results:

 b=20.00 deg Bc=0.42 m Disp=44.53 kp LCG=0.81 m

| ~CAHI~ | | | | | | | ~SAVITSKY~ | | | | | |
|--------|-------|-------|------|-----------------|-----------------|-------|------------|-------|------|-----------------|-----------------|-------|
| Vs | Lamda | Trim | D/W | Cr | Ct | R | Lamda | Trim | D/W | Cr | Ct | R |
| [m/s] | - | [deg] | [%] | 10 ³ | 10 ³ | [lbs] | - | [deg] | [%] | 10 ³ | 10 ³ | [lbs] |
| 1.00 | 11.72 | 2.77 | 0.06 | 19.743 | 23.160 | 5.57 | 5.73 | 2.72 | 0.05 | 39.645 | 43.564 | 5.12 |
| 1.26 | 10.68 | 2.85 | 0.06 | 13.971 | 17.301 | 6.05 | 5.66 | 2.81 | 0.06 | 25.966 | 29.719 | 5.51 |
| 1.53 | 9.88 | 2.93 | 0.07 | 10.669 | 13.932 | 6.57 | 5.58 | 2.91 | 0.06 | 18.718 | 22.347 | 5.95 |
| 1.79 | 9.22 | 3.03 | 0.07 | 8.605 | 11.816 | 7.15 | 5.47 | 3.02 | 0.07 | 14.439 | 17.973 | 6.46 |
| 2.05 | 8.66 | 3.15 | 0.08 | 7.240 | 10.409 | 7.77 | 5.36 | 3.16 | 0.07 | 11.724 | 15.183 | 7.01 |
| 2.32 | 8.15 | 3.28 | 0.09 | 6.304 | 9.439 | 8.43 | 5.22 | 3.31 | 0.08 | 9.916 | 13.315 | 7.63 |
| 2.58 | 7.68 | 3.43 | 0.09 | 5.649 | 8.758 | 9.13 | 5.07 | 3.48 | 0.08 | 8.672 | 12.022 | 8.28 |
| 2.84 | 7.24 | 3.60 | 0.10 | 5.189 | 8.277 | 9.87 | 4.91 | 3.67 | 0.09 | 7.797 | 11.108 | 8.98 |
| 3.11 | 6.82 | 3.79 | 0.11 | 4.868 | 7.941 | 10.64 | 4.73 | 3.88 | 0.10 | 7.172 | 10.452 | 9.72 |
| 3.37 | 6.43 | 4.01 | 0.12 | 4.649 | 7.711 | 11.42 | 4.58 | 4.10 | 0.11 | 6.663 | 9.915 | 10.49 |
| 3.63 | 6.05 | 4.23 | 0.12 | 4.501 | 7.555 | 12.21 | 4.38 | 4.32 | 0.11 | 6.337 | 9.572 | 11.23 |
| 3.89 | 5.69 | 4.46 | 0.13 | 4.393 | 7.443 | 12.99 | 4.18 | 4.54 | 0.12 | 6.069 | 9.290 | 11.95 |
| 4.16 | 5.36 | 4.66 | 0.14 | 4.297 | 7.346 | 13.72 | 3.99 | 4.72 | 0.13 | 5.819 | 9.030 | 12.62 |
| 4.42 | 5.06 | 4.84 | 0.15 | 4.189 | 7.236 | 14.39 | 3.82 | 4.87 | 0.13 | 5.559 | 8.760 | 13.22 |
| 4.68 | 4.79 | 4.96 | 0.15 | 4.050 | 7.095 | 14.98 | 3.67 | 4.98 | 0.14 | 5.273 | 8.465 | 13.75 |
| 4.95 | 4.56 | 5.03 | 0.16 | 3.874 | 6.917 | 15.48 | 3.54 | 5.03 | 0.14 | 4.960 | 8.142 | 14.22 |
| 5.21 | 4.36 | 5.04 | 0.16 | 3.665 | 6.705 | 15.90 | 3.43 | 5.04 | 0.15 | 4.626 | 7.796 | 14.62 |
| 5.47 | 4.19 | 5.01 | 0.17 | 3.433 | 6.468 | 16.26 | 3.33 | 5.00 | 0.15 | 4.281 | 7.439 | 14.98 |
| 5.74 | 4.05 | 4.94 | 0.17 | 3.191 | 6.220 | 16.58 | 3.26 | 4.94 | 0.16 | 3.938 | 7.082 | 15.31 |
| 6.00 | 3.92 | 4.83 | 0.17 | 2.947 | 5.969 | 16.87 | 3.19 | 4.85 | 0.16 | 3.604 | 6.735 | 15.62 |



Simulation Info:

28/06/2019 04:36:33 pm

Input Data:

Ship Speed: from Vs1=1.00 m/s to Vs2=6.00 m/s (for 20 different Ship Speed values)

Ship Displacement: Disp=64.62 kp

Breadth at Chine: Bc=0.42 m

Deadrise Angle: b=20.00 deg

LCG: LCG=1.05 m

Fresh water properties at 20.00C:

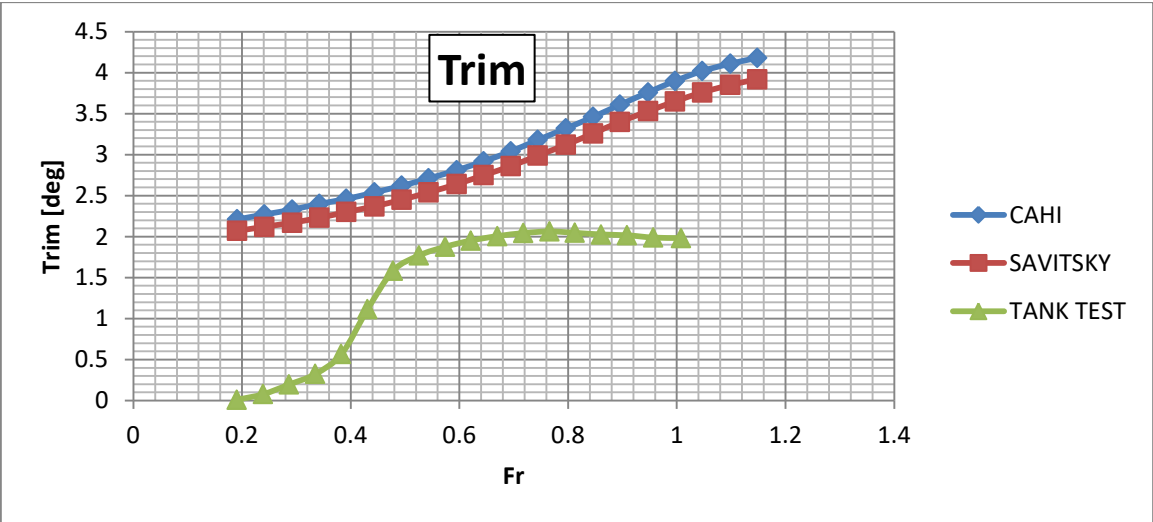
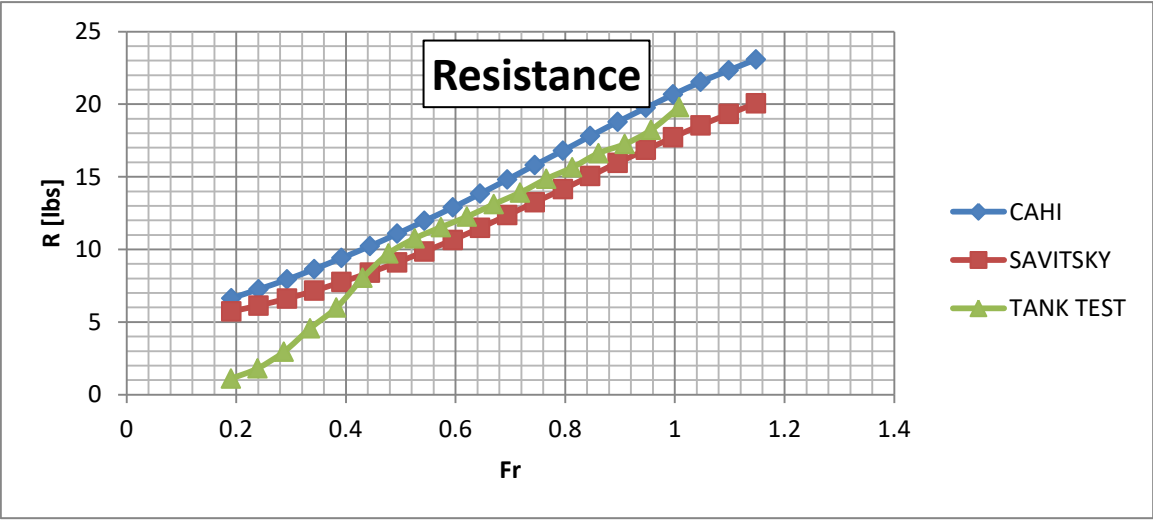
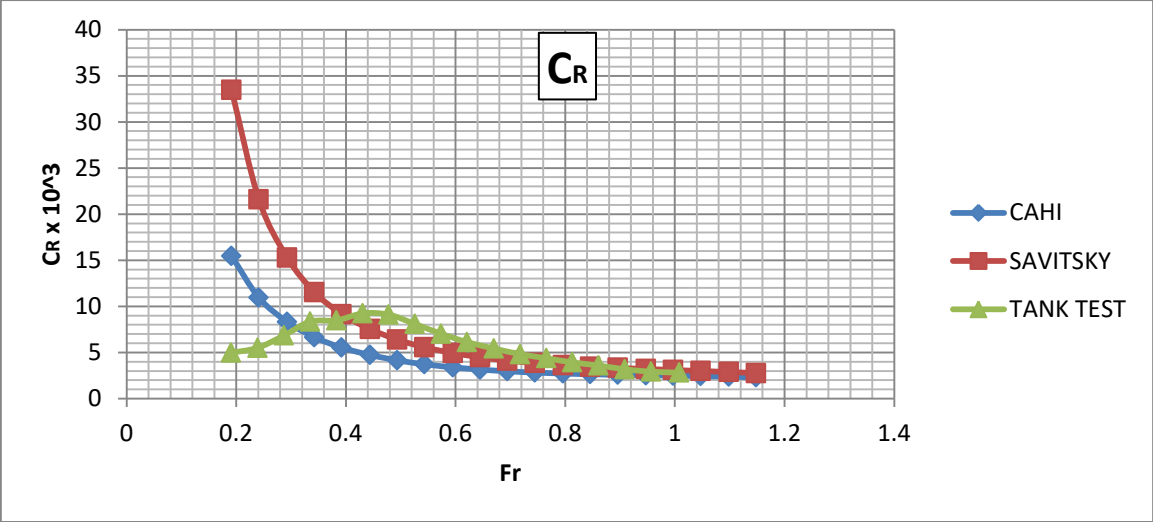
Density=998.10 kg/m³

Viscosity=1.00374*10⁻⁶ m²/s

Results:

b=20.00 deg Bc=0.42 m Disp=64.62 kp LCG=1.05 m

| ~CAHI~ | | | | | | | ~SAVITSKY~ | | | | | |
|--------|-------|-------|------|-----------------|-----------------|-------|------------|-------|------|-----------------|-----------------|-------|
| Vs | Lamda | Trim | D/W | Cr | Ct | R | Lamda | Trim | D/W | Cr | Ct | R |
| [m/s] | - | [deg] | [%] | 10 ³ | 10 ³ | [lbs] | - | [deg] | [%] | 10 ³ | 10 ³ | [lbs] |
| 1.00 | 17.30 | 2.21 | 0.05 | 15.459 | 18.641 | 6.64 | 7.48 | 2.07 | 0.04 | 33.464 | 37.183 | 5.73 |
| 1.26 | 15.73 | 2.27 | 0.05 | 10.945 | 14.050 | 7.26 | 7.43 | 2.12 | 0.04 | 21.600 | 25.161 | 6.14 |
| 1.53 | 14.56 | 2.33 | 0.06 | 8.321 | 11.366 | 7.93 | 7.36 | 2.17 | 0.05 | 15.296 | 18.739 | 6.62 |
| 1.79 | 13.61 | 2.40 | 0.06 | 6.653 | 9.649 | 8.65 | 7.29 | 2.23 | 0.05 | 11.553 | 14.903 | 7.16 |
| 2.05 | 12.82 | 2.46 | 0.07 | 5.525 | 8.482 | 9.41 | 7.20 | 2.30 | 0.05 | 9.156 | 12.430 | 7.76 |
| 2.32 | 12.13 | 2.54 | 0.07 | 4.729 | 7.653 | 10.23 | 7.09 | 2.37 | 0.06 | 7.533 | 10.745 | 8.41 |
| 2.58 | 11.51 | 2.62 | 0.08 | 4.150 | 7.046 | 11.08 | 6.97 | 2.45 | 0.06 | 6.390 | 9.550 | 9.11 |
| 2.84 | 10.95 | 2.71 | 0.08 | 3.719 | 6.592 | 11.97 | 6.85 | 2.54 | 0.07 | 5.560 | 8.677 | 9.86 |
| 3.11 | 10.43 | 2.81 | 0.09 | 3.395 | 6.249 | 12.89 | 6.70 | 2.64 | 0.07 | 4.944 | 8.024 | 10.66 |
| 3.37 | 9.94 | 2.92 | 0.10 | 3.149 | 5.987 | 13.84 | 6.55 | 2.75 | 0.08 | 4.479 | 7.528 | 11.49 |
| 3.63 | 9.48 | 3.04 | 0.10 | 2.963 | 5.788 | 14.82 | 6.39 | 2.86 | 0.09 | 4.125 | 7.147 | 12.36 |
| 3.89 | 9.03 | 3.18 | 0.11 | 2.822 | 5.637 | 15.81 | 6.21 | 2.99 | 0.09 | 3.851 | 6.851 | 13.25 |
| 4.16 | 8.61 | 3.32 | 0.12 | 2.718 | 5.525 | 16.81 | 6.03 | 3.12 | 0.10 | 3.638 | 6.620 | 14.15 |
| 4.42 | 8.20 | 3.46 | 0.12 | 2.640 | 5.441 | 17.81 | 5.85 | 3.26 | 0.11 | 3.469 | 6.436 | 15.06 |
| 4.68 | 7.81 | 3.61 | 0.13 | 2.580 | 5.378 | 18.79 | 5.66 | 3.40 | 0.11 | 3.331 | 6.284 | 15.97 |
| 4.95 | 7.44 | 3.76 | 0.14 | 2.531 | 5.326 | 19.75 | 5.48 | 3.53 | 0.12 | 3.211 | 6.154 | 16.86 |
| 5.21 | 7.09 | 3.90 | 0.15 | 2.484 | 5.277 | 20.67 | 5.30 | 3.65 | 0.12 | 3.101 | 6.035 | 17.73 |
| 5.47 | 6.77 | 4.02 | 0.15 | 2.433 | 5.226 | 21.53 | 5.13 | 3.76 | 0.13 | 2.993 | 5.919 | 18.55 |
| 5.74 | 6.48 | 4.11 | 0.16 | 2.373 | 5.164 | 22.34 | 4.97 | 3.85 | 0.14 | 2.882 | 5.800 | 19.33 |
| 6.00 | 6.21 | 4.18 | 0.16 | 2.301 | 5.091 | 23.09 | 4.82 | 3.92 | 0.14 | 2.764 | 5.675 | 20.07 |



Simulation Info:

28/06/2019 04:36:50 pm

Input Data:

Ship Speed: from Vs1=1.00 m/s to Vs2=6.00 m/s (for 20 different Ship Speed values)

Ship Displacement: Disp=80.34 kp

Breadth at Chine: Bc=0.42 m

Deadrise Angle: b=20.00 deg

LCG: LCG=1.08 m

Fresh water properties at 20.00C:

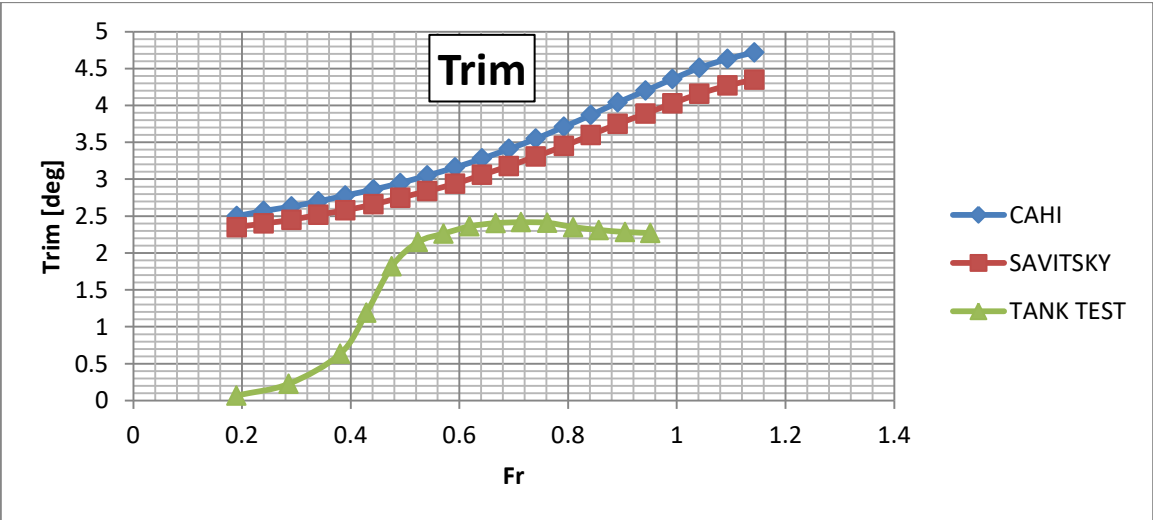
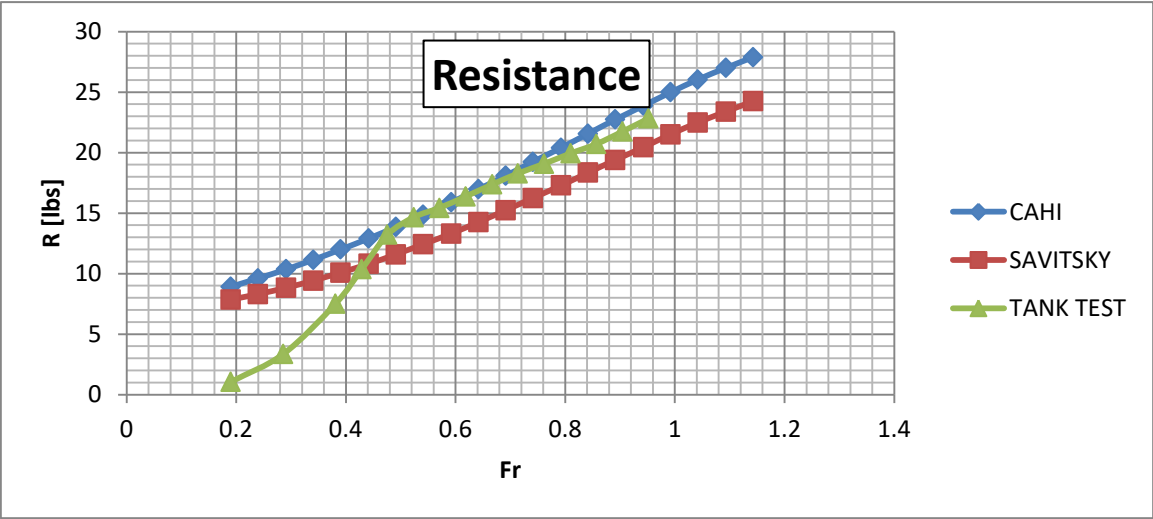
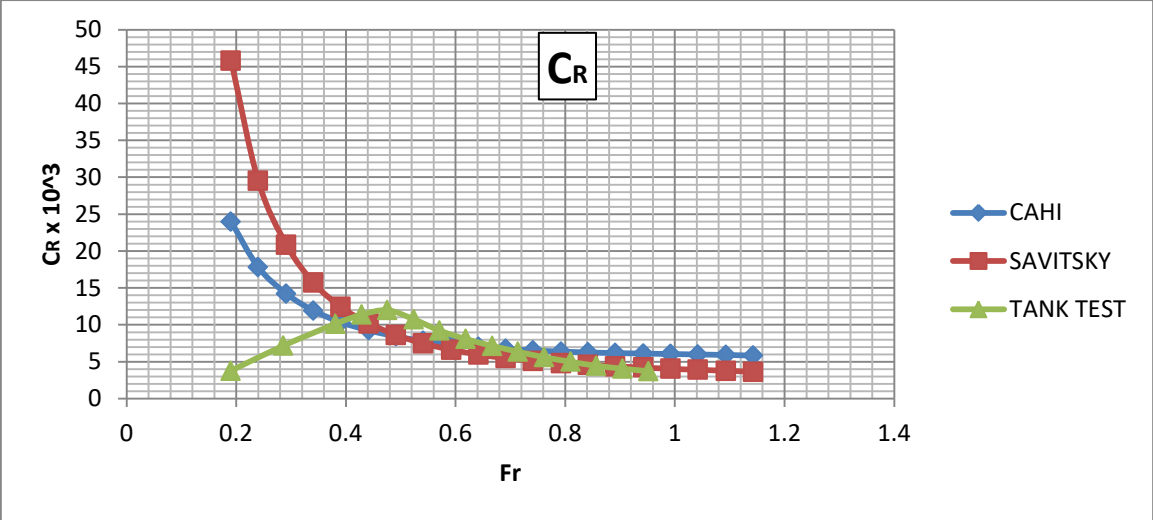
Density=998.10 kg/m³

Viscosity=1.00374*10⁻⁶ m²/s

Results:

b=20.00 deg Bc=0.42 m Disp=80.34 kp LCG=1.08 m

| ~CAHI~ | | | | | | | ~SAVITSKY~ | | | | | |
|--------|-------|-------|------|-----------------|-----------------|-------|------------|-------|------|-----------------|-----------------|-------|
| Vs | Lamda | Trim | D/W | Cr | Ct | R | Lamda | Trim | D/W | Cr | Ct | R |
| [m/s] | - | [deg] | [%] | 10 ³ | 10 ³ | [lbs] | - | [deg] | [%] | 10 ³ | 10 ³ | [lbs] |
| 1.00 | 18.10 | 2.50 | 0.05 | 20.825 | 23.982 | 8.92 | 7.71 | 2.35 | 0.04 | 45.810 | 49.507 | 7.86 |
| 1.26 | 16.46 | 2.57 | 0.05 | 14.730 | 17.811 | 9.61 | 7.66 | 2.40 | 0.05 | 29.510 | 33.051 | 8.31 |
| 1.53 | 15.22 | 2.63 | 0.06 | 11.189 | 14.210 | 10.36 | 7.60 | 2.45 | 0.05 | 20.852 | 24.275 | 8.84 |
| 1.79 | 14.24 | 2.70 | 0.06 | 8.937 | 11.910 | 11.15 | 7.52 | 2.52 | 0.05 | 15.712 | 19.042 | 9.43 |
| 2.05 | 13.41 | 2.78 | 0.07 | 7.414 | 10.348 | 12.00 | 7.43 | 2.58 | 0.06 | 12.418 | 15.673 | 10.09 |
| 2.32 | 12.69 | 2.86 | 0.07 | 6.338 | 9.239 | 12.91 | 7.33 | 2.66 | 0.06 | 10.187 | 13.381 | 10.81 |
| 2.58 | 12.05 | 2.95 | 0.08 | 5.553 | 8.427 | 13.86 | 7.22 | 2.75 | 0.07 | 8.614 | 11.755 | 11.60 |
| 2.84 | 11.47 | 3.05 | 0.08 | 4.968 | 7.819 | 14.86 | 7.09 | 2.84 | 0.07 | 7.469 | 10.567 | 12.43 |
| 3.11 | 10.94 | 3.16 | 0.09 | 4.526 | 7.358 | 15.90 | 6.96 | 2.94 | 0.08 | 6.617 | 9.678 | 13.32 |
| 3.37 | 10.44 | 3.28 | 0.10 | 4.190 | 7.005 | 16.98 | 6.81 | 3.06 | 0.08 | 5.973 | 9.001 | 14.26 |
| 3.63 | 9.96 | 3.41 | 0.10 | 3.933 | 6.735 | 18.09 | 6.65 | 3.18 | 0.09 | 5.478 | 8.480 | 15.24 |
| 3.89 | 9.50 | 3.55 | 0.11 | 3.739 | 6.530 | 19.24 | 6.48 | 3.31 | 0.09 | 5.096 | 8.075 | 16.25 |
| 4.16 | 9.07 | 3.71 | 0.12 | 3.592 | 6.375 | 20.40 | 6.30 | 3.45 | 0.10 | 4.797 | 7.757 | 17.29 |
| 4.42 | 8.65 | 3.87 | 0.12 | 3.482 | 6.259 | 21.57 | 6.12 | 3.60 | 0.10 | 4.560 | 7.504 | 18.35 |
| 4.68 | 8.25 | 4.04 | 0.13 | 3.400 | 6.172 | 22.74 | 5.93 | 3.75 | 0.11 | 4.368 | 7.299 | 19.40 |
| 4.95 | 7.86 | 4.20 | 0.13 | 3.334 | 6.103 | 23.88 | 5.75 | 3.89 | 0.12 | 4.207 | 7.126 | 20.45 |
| 5.21 | 7.50 | 4.36 | 0.14 | 3.276 | 6.043 | 24.99 | 5.60 | 4.03 | 0.12 | 4.034 | 6.940 | 21.52 |
| 5.47 | 7.17 | 4.51 | 0.15 | 3.216 | 5.982 | 26.04 | 5.42 | 4.16 | 0.13 | 3.904 | 6.803 | 22.49 |
| 5.74 | 6.86 | 4.63 | 0.15 | 3.147 | 5.913 | 27.01 | 5.24 | 4.27 | 0.13 | 3.772 | 6.664 | 23.40 |
| 6.00 | 6.57 | 4.72 | 0.16 | 3.065 | 5.830 | 27.89 | 5.08 | 4.35 | 0.14 | 3.634 | 6.519 | 24.25 |



Simulation Info:

28/06/2019 04:37:08 pm

Input Data:

Ship Speed: from Vs1=1.00 m/s to Vs2=6.00 m/s (for 20 different Ship Speed values)

Ship Displacement: Disp=96.13 kp

Breadth at Chine: Bc=0.42 m

Deadrise Angle: b=20.00 deg

LCG: LCG=1.11 m

Fresh water properties at 20.00C:

Density=998.10 kg/m³

Viscosity=1.00374*10⁻⁶ m²/s

Results:

b=20.00 deg Bc=0.42 m Disp=96.13 kp LCG=1.11 m

| ~CAHI~ | | | | | | | ~SAVITSKY~ | | | | | |
|--------|-------|-------|------|-----------------|-----------------|-------|------------|-------|------|-----------------|-----------------|-------|
| Vs | Lamda | Trim | D/W | Cr | Ct | R | Lamda | Trim | D/W | Cr | Ct | R |
| [m/s] | - | [deg] | [%] | 10 ³ | 10 ³ | [lbs] | - | [deg] | [%] | 10 ³ | 10 ³ | [lbs] |
| 1.00 | 18.88 | 2.77 | 0.05 | 26.447 | 29.580 | 11.47 | 7.93 | 2.59 | 0.05 | 58.784 | 62.462 | 10.19 |
| 1.26 | 17.16 | 2.84 | 0.06 | 18.693 | 21.751 | 12.23 | 7.88 | 2.64 | 0.05 | 37.807 | 41.329 | 10.68 |
| 1.53 | 15.87 | 2.91 | 0.06 | 14.188 | 17.187 | 13.04 | 7.82 | 2.70 | 0.05 | 26.666 | 30.071 | 11.26 |
| 1.79 | 14.84 | 2.98 | 0.07 | 11.322 | 14.275 | 13.92 | 7.75 | 2.76 | 0.06 | 20.052 | 23.365 | 11.91 |
| 2.05 | 13.98 | 3.06 | 0.07 | 9.384 | 12.297 | 14.86 | 7.66 | 2.83 | 0.06 | 15.813 | 19.051 | 12.63 |
| 2.32 | 13.24 | 3.15 | 0.07 | 8.012 | 10.893 | 15.85 | 7.56 | 2.91 | 0.06 | 12.940 | 16.117 | 13.42 |
| 2.58 | 12.58 | 3.24 | 0.08 | 7.011 | 9.864 | 16.91 | 7.45 | 3.00 | 0.07 | 10.912 | 14.036 | 14.28 |
| 2.84 | 11.98 | 3.35 | 0.09 | 6.263 | 9.093 | 18.02 | 7.33 | 3.09 | 0.07 | 9.435 | 12.515 | 15.20 |
| 3.11 | 11.43 | 3.46 | 0.09 | 5.695 | 8.506 | 19.18 | 7.20 | 3.20 | 0.08 | 8.333 | 11.375 | 16.18 |
| 3.37 | 10.91 | 3.59 | 0.10 | 5.261 | 8.056 | 20.39 | 7.05 | 3.32 | 0.08 | 7.496 | 10.507 | 17.22 |
| 3.63 | 10.42 | 3.73 | 0.10 | 4.929 | 7.710 | 21.65 | 6.89 | 3.44 | 0.09 | 6.853 | 9.836 | 18.31 |
| 3.89 | 9.96 | 3.88 | 0.11 | 4.674 | 7.444 | 22.95 | 6.73 | 3.58 | 0.09 | 6.353 | 9.313 | 19.44 |
| 4.16 | 9.51 | 4.05 | 0.11 | 4.482 | 7.243 | 24.28 | 6.55 | 3.72 | 0.10 | 5.961 | 8.902 | 20.62 |
| 4.42 | 9.08 | 4.22 | 0.12 | 4.336 | 7.091 | 25.63 | 6.37 | 3.88 | 0.10 | 5.651 | 8.575 | 21.81 |
| 4.68 | 8.67 | 4.40 | 0.13 | 4.227 | 6.977 | 26.99 | 6.23 | 4.03 | 0.11 | 5.366 | 8.273 | 23.06 |
| 4.95 | 8.28 | 4.59 | 0.13 | 4.142 | 6.889 | 28.33 | 6.03 | 4.19 | 0.11 | 5.168 | 8.064 | 24.25 |
| 5.21 | 7.90 | 4.76 | 0.14 | 4.071 | 6.815 | 29.64 | 5.83 | 4.34 | 0.12 | 4.997 | 7.884 | 25.42 |
| 5.47 | 7.55 | 4.93 | 0.15 | 4.003 | 6.745 | 30.89 | 5.64 | 4.48 | 0.13 | 4.840 | 7.719 | 26.54 |
| 5.74 | 7.23 | 5.07 | 0.15 | 3.928 | 6.669 | 32.05 | 5.46 | 4.61 | 0.13 | 4.686 | 7.559 | 27.61 |
| 6.00 | 6.93 | 5.19 | 0.16 | 3.839 | 6.579 | 33.10 | 5.29 | 4.71 | 0.13 | 4.528 | 7.394 | 28.60 |

