

Norveç model tankında 1969 senesinde yapılan bir çalışmadır. Orijinal literatur ekte bulunmaktadır. Ayrıca Lotus .wk4 Dosyasıda zip olarak sitede bulunmaktadır. Araştırmacılara Yardımcı olmak üzere eklenmiştir.

Model test edilmek üzere 30 ft in karşılığı olan 1/23 de bir ölçekte yapılmıştır. Yüksek hızlarda verilen ağırlıklara göre direnç sonuçlarını doğru bulabilmek üzere üç değişkenin fonksiyonu olarak gurublanmıştır.

$$C_l - L_{cb}/B - \beta$$

C_l yardımıyla teknenin hızı tespit edilmektedir.

$$V_{sel} \text{ (knots)} = (1/b) * (\Delta * (2/\rho) (1/C_l))^{1/2} * (1.514)$$

L_{cb}/B ise burada Ağırlık merkezinin kıçtan mesafesinin Teknenin çene genişliğine bölümüne oranıdır.

Ağırlık merkezinin yeri ise % 80,90,100,110,120,130,140,150 Sonuçları eğri olarak verilmiştir.

Deplasman ise 1.5,2.0,2.5,3.0,3.5,4.0,4.5,5.0,6.0,7.0,8.0,9.0 ton Olarak belirlenmiştir.

Yöntem tekne cene genişliğinin kıçtaki genişliğine göre F_v 2.5 tan 4.5 arası Kıçtaki genişliğin çene genişliğine oranı % 70,%80,%90 göre dirençte düzeltme imkanı vermektedir.

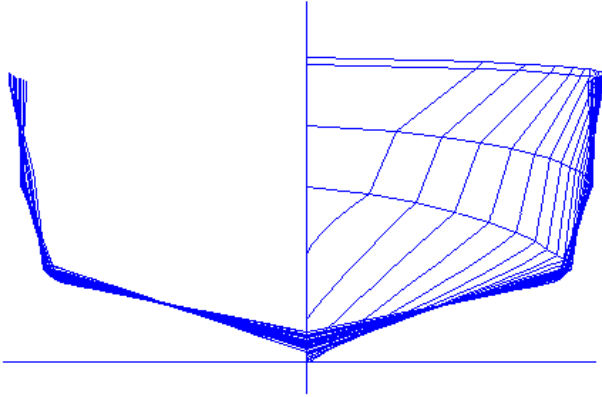
Ekte üç tane örnek hazırlanmıştır. Birinci model kalkıntı açısı 17.5 derece 1500 kg diğeri ise kalkıntı açısı 22.5 derece 2000kg Sonuncusu ise kalkıntı açısı 22.5 derece 4500 kg olarak mevcut Yöntemle Savitsky + Blount M(0.5) karşılaştırması yapılmıştır.

Oktay Çemberci
İstanbul

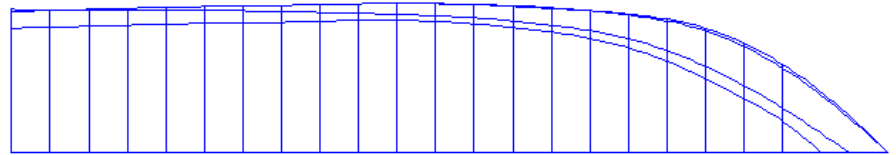
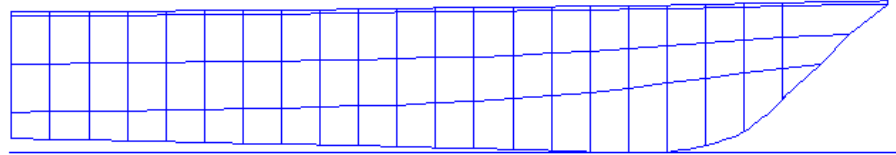
TEKNENİN BOYUTLARI

Loa TAM BOYU	5.822 metre
Lpx CENE BOYU	5.375 metre
Lwl SU HATTI BOYU	5.122 metre
Boa TAM ENİ	2.060 metre
Bpx CENE GENİŞLİĞİ	1.829 metre
Bwl SU HATTI ENİ	1.841 metre
Twl CENE BOYU ORTASINDAKİ SU KESİMİ	0.288 metre
TEKNE SU HATTINDAKİ AĞIRLIĞI Dep	1500.0 kg
CENE BOYU ORTASINDAKİ KALKINTI AÇISI	17.5 derece

Kalkinti Acisi 17.50 Derece Model



Tekne Ağırlığı 1500 kg



POWERING OF PLANING CHINE HULLS

17.50 ve 22.50 Derece Tekne değişik LCG Merkezlerindeki Güç değeri 24-Mar-2007

09:17:19 AM

Lpx	17.636 ft	5.375 Metre	Lpx/Bpx=	2.939
Bpx	6.000 ft	1.829 Metre		
Tpx - 22.50	1.243 ft	0.379 Metre		
17.50	0.946 ft	0.288 Metre		
Deplasman	2000.000 (22.5 deg)	1500.000 kg (17.5 deg)		
Lcg	4.800 ft	1.463 Metre		

Lcg/B = 0.8000

Lcg/Lpx = 0.272

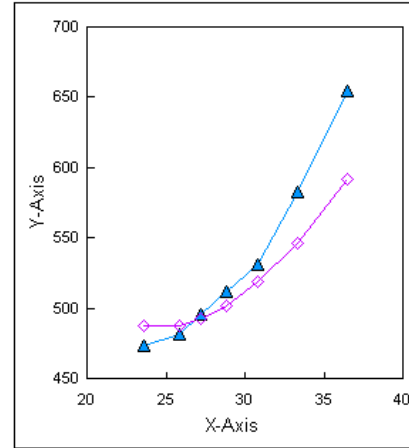
Cv	Rbh/Dep	Rbh - kg	Rbh - Libre	Vsel-knots	Hull-E Power HP
<i>0.060</i>	<i>0.14303846</i>	<i>214.56</i>	<i>473.02</i>	<i>23.56</i>	<i>34.220</i>
<i>0.050</i>	<i>0.14571581</i>	<i>218.57</i>	<i>481.87</i>	<i>25.81</i>	<i>38.188</i>
<i>0.045</i>	<i>0.14977244</i>	<i>224.66</i>	<i>495.29</i>	<i>27.20</i>	<i>41.374</i>
<i>0.040</i>	<i>0.15479808</i>	<i>232.20</i>	<i>511.91</i>	<i>28.85</i>	<i>45.357</i>
<i>0.035</i>	<i>0.16061325</i>	<i>240.92</i>	<i>531.14</i>	<i>30.84</i>	<i>50.310</i>
<i>0.030</i>	<i>0.17605235</i>	<i>264.08</i>	<i>582.19</i>	<i>33.32</i>	<i>59.564</i>
<i>0.025</i>	<i>0.19781410</i>	<i>296.72</i>	<i>654.16</i>	<i>36.50</i>	<i>73.315</i>
<i>0.000</i>	<i>0.00000000</i>	<i>0.00</i>	<i>0.00</i>	ERR	ERR
<i>0.000</i>	<i>0.00000000</i>	<i>0.00</i>	<i>0.00</i>	ERR	ERR
<i>0.000</i>	<i>0.00000000</i>	<i>0.00</i>	<i>0.00</i>	ERR	ERR

KARŞILAŞTIRMA

NSMET Model Sonuçuyla Savitsky+ Blount Hesaplama

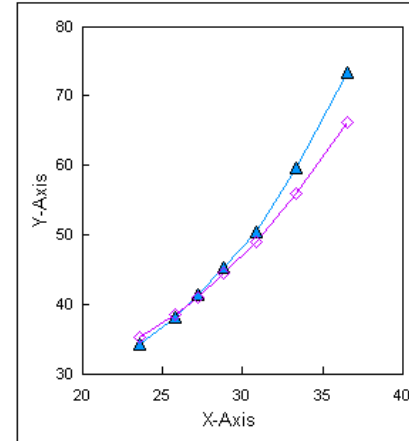
Tekne Hızı	Nsmet Rbh	Savitsky Rbh
23.56	473.02	487.38
25.81	481.87	487.35
27.20	495.29	492.14
28.85	511.91	501.66
30.84	531.14	518.48
33.32	582.19	546.24
36.50	654.16	591.13

Knot **Libre** **Libre**



Tekne Hızı	Nsmet Ehp	Savitsky Ehp
23.56	34.22	35.24
25.81	38.19	38.60
27.20	41.37	41.08
28.85	45.36	44.41
30.84	50.31	49.01
33.32	59.56	55.85
36.50	73.32	66.21

Knot **HP** **HP**



POWERING OF PLANING CHINE HULLS

17.50 ve 22.50 Derece Tekne değişik LCG Merkezlerindeki Güç değerleri 24-Mar-2007

09:17:49 AM

Lpx	17.636 ft		5.375 Metre	Lpx/Bpx=	2.939
Bpx	6.000 ft		1.829 Metre		
Tpx - 22.50	1.243 ft		0.379 Metre		
17.50	0.946 ft		0.288 Metre		
Deplasman	2000.000	(22.5 deg)	1500.000 kg	(17.5 deg)	
Lcg	5.400 ft		1.646 Metre		

Lcg/B = 0.9000

Lcg/Lpx = 0.306

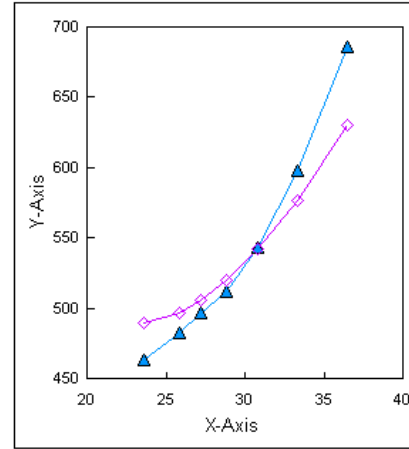
Cv	Rbh/Dep	Rbh - kg	Rbh - Libre	Vsel-knots	Hull-E Power HP
<i>0.060</i>	<i>0.14015308</i>	<i>210.23</i>	<i>463.48</i>	<i>23.56</i>	<i>33.530</i>
<i>0.050</i>	<i>0.14584762</i>	<i>218.77</i>	<i>482.31</i>	<i>25.81</i>	<i>38.223</i>
<i>0.045</i>	<i>0.15018405</i>	<i>225.28</i>	<i>496.65</i>	<i>27.20</i>	<i>41.488</i>
<i>0.040</i>	<i>0.15471194</i>	<i>232.07</i>	<i>511.62</i>	<i>28.85</i>	<i>45.331</i>
<i>0.035</i>	<i>0.16408129</i>	<i>246.12</i>	<i>542.61</i>	<i>30.84</i>	<i>51.396</i>
<i>0.030</i>	<i>0.18066030</i>	<i>270.99</i>	<i>597.43</i>	<i>33.32</i>	<i>61.123</i>
<i>0.025</i>	<i>0.20735749</i>	<i>311.04</i>	<i>685.72</i>	<i>36.50</i>	<i>76.852</i>
<i>0.000</i>	<i>0.00000000</i>	<i>0.00</i>	<i>0.00</i>	ERR	ERR
<i>0.000</i>	<i>0.00000000</i>	<i>0.00</i>	<i>0.00</i>	ERR	ERR
<i>0.000</i>	<i>0.00000000</i>	<i>0.00</i>	<i>0.00</i>	ERR	ERR

KARŞILAŞTIRMA

NSMET Model Sonuçuyla Savitsky+ Blount Hesaplama

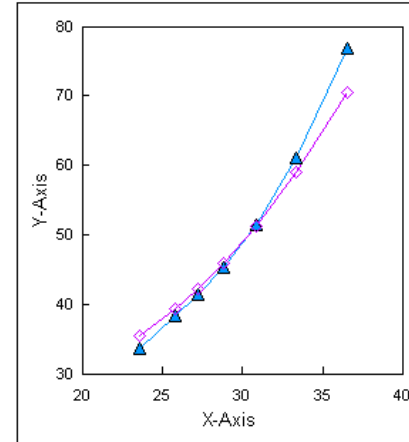
Tekne Hızı	Nsmet Rbh	Savitsky Rbh
23.56	463.48	489.90
25.81	482.31	496.70
27.20	496.65	505.47
28.85	511.62	519.60
30.84	542.61	541.85
33.32	597.43	576.33
36.50	685.72	629.92

Knot **Libre** **Libre**



Tekne Hızı	Nsmet Ehp	Savitsky Ehp
23.56	33.53	35.42
25.81	38.22	39.34
27.20	41.49	42.19
28.85	45.33	46.00
30.84	51.40	51.28
33.32	61.12	58.93
36.50	76.85	70.56

Knot **HP** **HP**



POWERING OF PLANING CHINE HULLS

17.50 ve 22.50 Derece Tekne değişik LCG Merkezlerindeki Güç değeri 24-Mar-2007

09:18:26 AM

Lpx	17.636 ft		5.375 Metre	Lpx/Bpx=	2.939
Bpx	6.000 ft		1.829 Metre		
Tpx - 22.50	1.243 ft		0.379 Metre		
17.50	0.946 ft		0.288 Metre		
Deplasman	2000.000	(22.5 deg)	1500.000 kg	(17.5 deg)	
Lcg	6.000 ft		1.829 Metre		

Lcg/B = 1.0000

Lcg/Lpx = 0.340

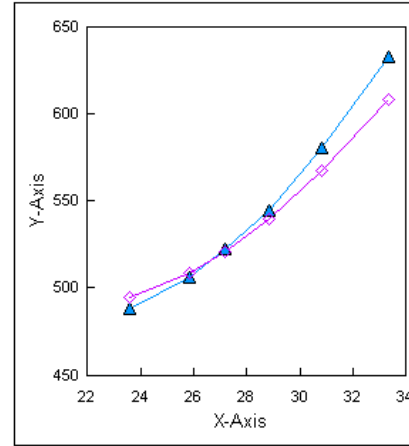
Cv	Rbh/Dep	Rbh - kg	Rbh - Libre	Vsel-knots	Hull-E Power HP
<i>0.060</i>	<i>0.14753560</i>	<i>221.30</i>	<i>487.89</i>	<i>23.56</i>	<i>35.296</i>
<i>0.050</i>	<i>0.15305992</i>	<i>229.59</i>	<i>506.16</i>	<i>25.81</i>	<i>40.113</i>
<i>0.045</i>	<i>0.15793878</i>	<i>236.91</i>	<i>522.29</i>	<i>27.20</i>	<i>43.630</i>
<i>0.040</i>	<i>0.16457463</i>	<i>246.86</i>	<i>544.24</i>	<i>28.85</i>	<i>48.221</i>
<i>0.035</i>	<i>0.17550305</i>	<i>263.25</i>	<i>580.38</i>	<i>30.84</i>	<i>54.974</i>
<i>0.030</i>	<i>0.19126503</i>	<i>286.90</i>	<i>632.50</i>	<i>33.32</i>	<i>64.711</i>
<i>0.025</i>	<i>0.00000000</i>	<i>0.00</i>	<i>0.00</i>	<i>36.50</i>	<i>0.000</i>
<i>0.000</i>	<i>0.00000000</i>	<i>0.00</i>	<i>0.00</i>	ERR	ERR
<i>0.000</i>	<i>0.00000000</i>	<i>0.00</i>	<i>0.00</i>	ERR	ERR
<i>0.000</i>	<i>0.00000000</i>	<i>0.00</i>	<i>0.00</i>	ERR	ERR

KARŞILAŞTIRMA

NSMET Model Sonuçuyla Savitsky+ Blount Hesaplama

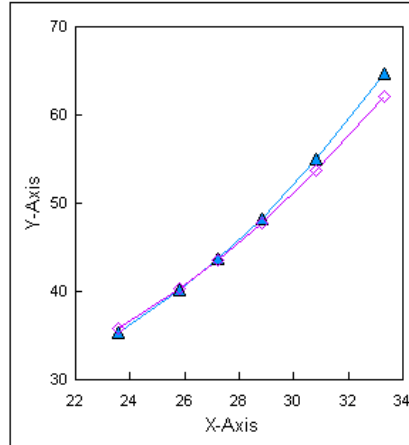
Tekne Hızı	Nsmet Rbh	Savitsky Rbh
23.56	487.89	494.91
25.81	506.16	508.25
27.20	522.29	520.85
28.85	544.24	539.40
30.84	580.38	566.88
33.32	632.50	607.98

Knot **Libre** **Libre**



Tekne Hızı	Nsmet Ehp	Savitsky Ehp
23.56	35.30	35.78
25.81	40.11	40.26
27.20	43.63	43.48
28.85	48.22	47.76
30.84	54.97	53.65
33.32	64.71	62.17

Knot **HP** **HP**



POWERING OF PLANING CHINE HULLS

17.50 ve 22.50 Derece Tekne değişik LCG Merkezlerindeki Güç değeri 24-Mar-2007

09:18:54 AM

Lpx	17.636 ft		5.375 Metre	Lpx/Bpx=	2.939
Bpx	6.000 ft		1.829 Metre		
Tpx - 22.50	1.243 ft		0.379 Metre		
17.50	0.946 ft		0.288 Metre		
Deplasman	2000.000	(22.5 deg)	1500.000 kg	(17.5 deg)	
Lcg	6.600 ft		2.012 Metre		

Lcg/B = 1.1000

Lcg/Lpx = 0.374

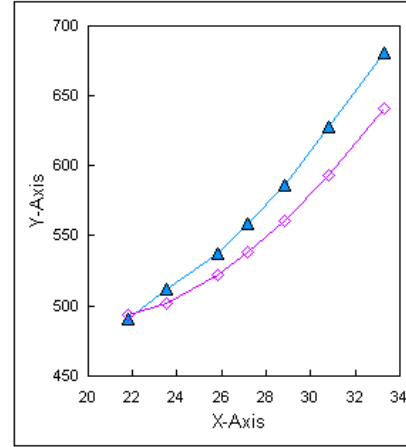
Cv	Rbh/Dep	Rbh - kg	Rbh - Libre	Vsel-knots	Hull-E Power HP
<i>0.070</i>	<i>0.14832661</i>	<i>222.49</i>	<i>490.51</i>	<i>21.81</i>	<i>32.853</i>
<i>0.060</i>	<i>0.15463770</i>	<i>231.96</i>	<i>511.38</i>	<i>23.56</i>	<i>36.995</i>
<i>0.050</i>	<i>0.16254400</i>	<i>243.82</i>	<i>537.52</i>	<i>25.81</i>	<i>42.598</i>
<i>0.045</i>	<i>0.16901337</i>	<i>253.52</i>	<i>558.92</i>	<i>27.20</i>	<i>46.690</i>
<i>0.040</i>	<i>0.17725199</i>	<i>265.88</i>	<i>586.16</i>	<i>28.85</i>	<i>51.936</i>
<i>0.035</i>	<i>0.18978616</i>	<i>284.68</i>	<i>627.61</i>	<i>30.84</i>	<i>59.448</i>
<i>0.030</i>	<i>0.20582637</i>	<i>308.74</i>	<i>680.65</i>	<i>33.32</i>	<i>69.638</i>
<i>0.000</i>	<i>0.00000000</i>	<i>0.00</i>	<i>0.00</i>	ERR	ERR
<i>0.000</i>	<i>0.00000000</i>	<i>0.00</i>	<i>0.00</i>	ERR	ERR
<i>0.000</i>	<i>0.00000000</i>	<i>0.00</i>	<i>0.00</i>	ERR	ERR

KARŞILAŞTIRMA

NSMET Model Sonuçuyla Savitsky+ Blount Hesaplama

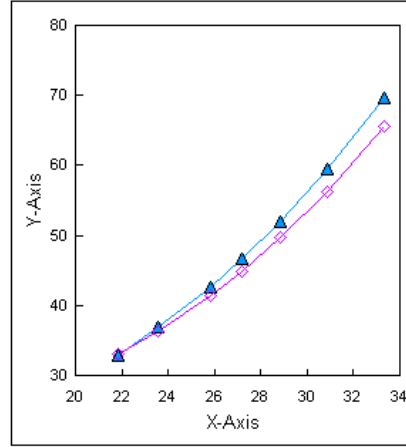
Tekne Hızı	Nsmet Rbh	Savitsky Rbh
21.81	490.51	493.19
23.56	511.38	502.04
25.81	537.52	521.67
27.20	558.92	538.02
28.85	586.16	560.86
30.84	627.61	593.43
33.32	680.65	640.73

Knot **Libre** **Libre**



Tekne Hızı	Nsmet Ehp	Savitsky Ehp
21.81	32.85	33.00
23.56	37.00	36.30
25.81	42.60	41.32
27.20	46.69	44.90
28.85	51.94	49.66
30.84	59.45	56.16
33.32	69.64	65.52

Knot **HP** **HP**



POWERING OF PLANING CHINE HULLS

17.50 ve 22.50 Derece Tekne değişik LCG Merkezlerindeki Güç değeri 24-Mar-2007

09:19:27 AM

Lpx	17.636 ft		5.375 Metre	Lpx/Bpx=	2.939
Bpx	6.000 ft		1.829 Metre		
Tpx - 22.50	1.243 ft		0.379 Metre		
17.50	0.946 ft		0.288 Metre		
Deplasman	2000.000	(22.5 deg)	1500.000 kg	(17.5 deg)	
Lcg	7.200 ft		2.195 Metre		

Lcg/B = 1.2000

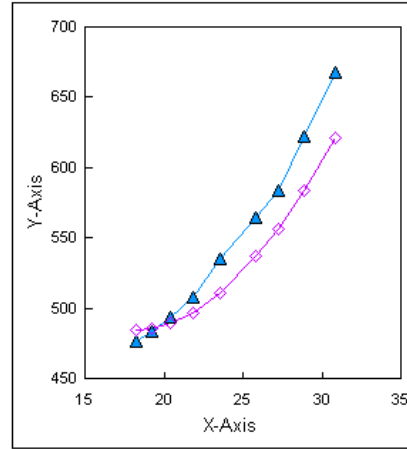
Lcg/Lpx = 0.408

Cv	Rbh/Dep	Rbh - kg	Rbh - Libre	Vsel-knots	Hull-E Power HP
<i>0.100</i>	<i>0.14411341</i>	<i>216.17</i>	<i>476.57</i>	<i>18.25</i>	<i>26.706</i>
<i>0.090</i>	<i>0.14631623</i>	<i>219.47</i>	<i>483.86</i>	<i>19.23</i>	<i>28.581</i>
<i>0.080</i>	<i>0.14917326</i>	<i>223.76</i>	<i>493.31</i>	<i>20.40</i>	<i>30.907</i>
<i>0.070</i>	<i>0.15357912</i>	<i>230.37</i>	<i>507.88</i>	<i>21.81</i>	<i>34.016</i>
<i>0.060</i>	<i>0.16173703</i>	<i>242.61</i>	<i>534.85</i>	<i>23.56</i>	<i>38.694</i>
<i>0.050</i>	<i>0.17056622</i>	<i>255.85</i>	<i>564.05</i>	<i>25.81</i>	<i>44.701</i>
<i>0.045</i>	<i>0.17655546</i>	<i>264.83</i>	<i>583.86</i>	<i>27.20</i>	<i>48.773</i>
<i>0.040</i>	<i>0.18808681</i>	<i>282.13</i>	<i>621.99</i>	<i>28.85</i>	<i>55.110</i>
<i>0.035</i>	<i>0.20166593</i>	<i>302.50</i>	<i>666.90</i>	<i>30.84</i>	<i>63.169</i>
<i>0.000</i>	<i>0.00000000</i>	<i>0.00</i>	<i>0.00</i>	ERR	ERR

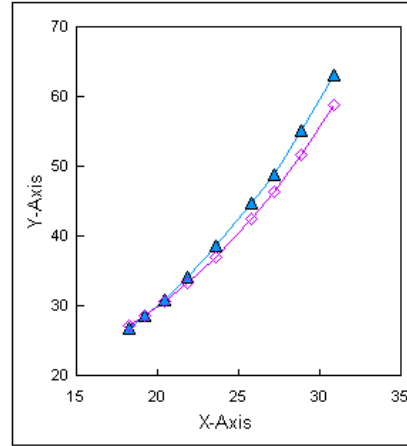
KARŞILAŞTIRMA

NSMET Model Sonuçuyla Savitsky+ Blount Hesaplama

Tekne Hızı	Nsmet Rbh	Savitsky Rbh
18.25	476.57	484.78
19.23	483.86	485.70
20.40	493.31	489.17
21.81	507.88	497.00
23.56	534.85	511.06
25.81	564.05	536.80
27.20	583.86	556.66
28.85	621.99	583.66
30.84	666.90	621.15
Knot	Libre	Libre



Tekne Hızı	Nsmet Ehp	Savitsky Ehp
18.25	26.71	27.15
19.23	28.58	28.66
20.40	30.91	30.62
21.81	34.02	33.26
23.56	38.69	36.95
25.81	44.70	42.52
27.20	48.77	46.46
28.85	55.11	51.67
30.84	63.17	58.79
Knot	HP	HP



POWERING OF PLANING CHINE HULLS

17.50 ve 22.50 Derece Tekne değişik LCG Merkezlerindeki Güç değeri

24-Mar-2007
09:19:59 AM

Lpx	17.636 ft		5.375 Metre	Lpx/Bpx=	2.939
Bpx	6.000 ft		1.829 Metre		
Tpx - 22.50	1.243 ft		0.379 Metre		
17.50	0.946 ft		0.288 Metre		
Deplasman	2000.000	(22.5 deg)	1500.000 kg	(17.5 deg)	
Lcg	7.800 ft		2.377 Metre		

Lcg/B = 1.3000

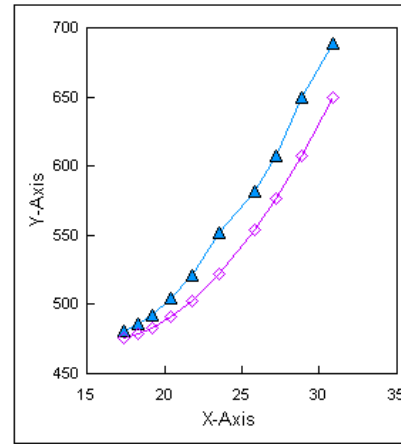
Lcg/Lpx = 0.442

Cv	Rbh/Dep	Rbh - kg	Rbh - Libre	Vsel-knots	Hull-E Power HP
<i>0.110</i>	<i>0.14537476</i>	<i>218.06</i>	<i>480.74</i>	<i>17.40</i>	<i>25.686</i>
<i>0.100</i>	<i>0.14684229</i>	<i>220.26</i>	<i>485.60</i>	<i>18.25</i>	<i>27.212</i>
<i>0.090</i>	<i>0.14875333</i>	<i>223.13</i>	<i>491.92</i>	<i>19.23</i>	<i>29.057</i>
<i>0.080</i>	<i>0.15259259</i>	<i>228.89</i>	<i>504.61</i>	<i>20.40</i>	<i>31.615</i>
<i>0.070</i>	<i>0.15759192</i>	<i>236.39</i>	<i>521.15</i>	<i>21.81</i>	<i>34.905</i>
<i>0.060</i>	<i>0.16697664</i>	<i>250.46</i>	<i>552.18</i>	<i>23.56</i>	<i>39.947</i>
<i>0.050</i>	<i>0.17602008</i>	<i>264.03</i>	<i>582.09</i>	<i>25.81</i>	<i>46.130</i>
<i>0.045</i>	<i>0.18373265</i>	<i>275.60</i>	<i>607.59</i>	<i>27.20</i>	<i>50.756</i>
<i>0.040</i>	<i>0.19647870</i>	<i>294.72</i>	<i>649.74</i>	<i>28.85</i>	<i>57.569</i>
<i>0.035</i>	<i>0.20821846</i>	<i>312.33</i>	<i>688.56</i>	<i>30.84</i>	<i>65.221</i>

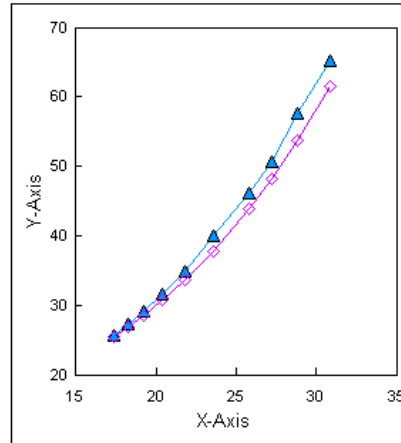
KARŞILAŞTIRMA

NSMET Model Sonuçuyla Savitsky+ Blount Hesaplama

Tekne Hızı	Nsmet Rbh	Savitsky Rbh
17.40	480.74	475.03
18.25	485.60	478.22
19.23	491.92	482.95
20.40	504.61	490.48
21.81	521.15	502.73
23.56	552.15	521.79
25.81	582.09	553.36
27.20	607.59	576.68
28.85	649.74	607.70
30.84	688.56	649.98
Knot	Libre	Libre



Tekne Hızı	Nsmet Ehp	Savitsky Ehp
17.40	25.69	25.37
18.25	27.21	26.78
19.23	29.06	28.50
20.40	31.62	30.70
21.81	34.91	33.65
23.56	39.95	37.73
25.81	46.13	43.83
27.20	50.76	48.14
28.85	57.57	53.80
30.84	65.22	61.51
Knot	HP	HP



POWERING OF PLANING CHINE HULLS

17.50 ve 22.50 Derece Tekne değişik LCG Merkezlerindeki Güç değeri 24-Mar-2007

09:20:37 AM

Lpx	17.636 ft	5.375 Metre	Lpx/Bpx=	2.939
Bpx	6.000 ft	1.829 Metre		
Tpx - 22.50	1.243 ft	0.379 Metre		
17.50	0.946 ft	0.288 Metre		
Deplasman	2000.000 (22.5 deg)	1500.000 kg (17.5 deg)		
Lcg	8.400 ft	2.560 Metre		

Lcg/B = 1.4000

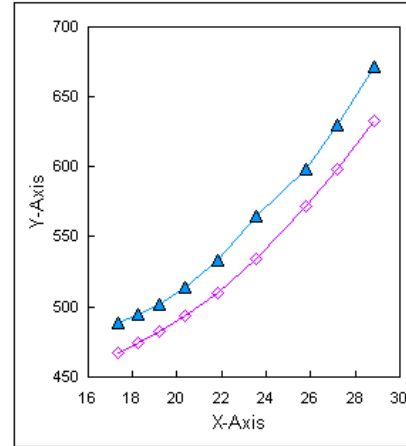
Lcg/Lpx = 0.476

Cv	Rbh/Dep	Rbh - kg	Rbh - Libre	Vsel-knots	Hull-E Power HP
<i>0.110</i>	<i>0.14786316</i>	<i>221.79</i>	<i>488.97</i>	<i>17.40</i>	<i>26.126</i>
<i>0.100</i>	<i>0.14943579</i>	<i>224.15</i>	<i>494.17</i>	<i>18.25</i>	<i>27.692</i>
<i>0.090</i>	<i>0.15157244</i>	<i>227.36</i>	<i>501.24</i>	<i>19.23</i>	<i>29.608</i>
<i>0.080</i>	<i>0.15523056</i>	<i>232.85</i>	<i>513.34</i>	<i>20.40</i>	<i>32.162</i>
<i>0.070</i>	<i>0.16119631</i>	<i>241.79</i>	<i>533.06</i>	<i>21.81</i>	<i>35.704</i>
<i>0.060</i>	<i>0.17064907</i>	<i>255.97</i>	<i>564.32</i>	<i>23.56</i>	<i>40.826</i>
<i>0.050</i>	<i>0.18087121</i>	<i>271.31</i>	<i>598.13</i>	<i>25.81</i>	<i>47.401</i>
<i>0.045</i>	<i>0.19034107</i>	<i>285.51</i>	<i>629.44</i>	<i>27.20</i>	<i>52.581</i>
<i>0.040</i>	<i>0.20295645</i>	<i>304.43</i>	<i>671.16</i>	<i>28.85</i>	<i>59.467</i>
<i>0.035</i>	<i>0.00000000</i>	<i>0.00</i>	<i>0.00</i>	<i>30.84</i>	<i>0.000</i>

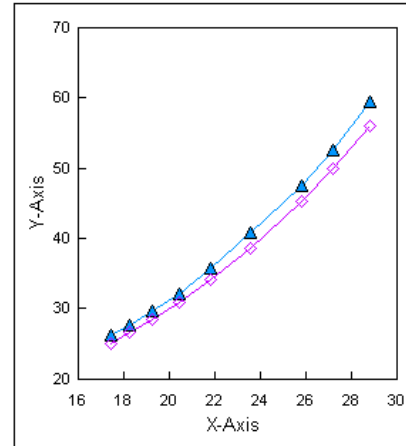
KARŞILAŞTIRMA

NSMET Model Sonuçuyla Savitsky+ Blount Hesaplama

Tekne Hızı	Nsmet Rbh	Savitsky Rbh
17.40	488.97	467.30
18.25	494.17	474.00
19.23	501.24	482.38
20.40	513.34	493.83
21.81	533.06	510.26
23.56	564.32	534.06
25.81	598.13	571.35
27.20	629.44	597.67
28.85	671.16	633.12
Knot	Libre	Libre



Tekne Hızı	Nsmet Ehp	Savitsky Ehp
17.40	26.13	24.95
18.25	27.69	26.55
19.23	29.61	28.47
20.40	32.16	30.92
21.81	35.70	34.15
23.56	40.83	38.61
25.81	47.40	45.25
27.20	52.58	49.91
28.85	59.47	56.06
Knot	HP	HP



POWERING OF PLANING CHINE HULLS

17.50 ve 22.50 Derece Tekne değişik LCG Merkezlerindeki Güç değeri

24-Mar-2007
09:20:59 AM

Lpx	17.636 ft		5.375 Metre	Lpx/Bpx=	2.939
Bpx	6.000 ft		1.829 Metre		
Tpx - 22.50	1.243 ft		0.379 Metre		
17.50	0.946 ft		0.288 Metre		
Deplasman	2000.000	(22.5 deg)	1500.000 kg	(17.5 deg)	
Lcg	9.000 ft		2.743 Metre		

Lcg/B = 1.5000

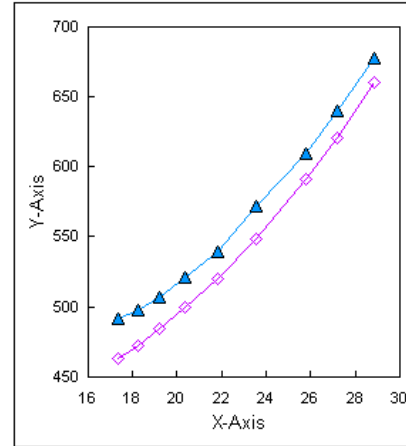
Lcg/Lpx = 0.510

Cv	Rbh/Dep	Rbh - kg	Rbh - Libre	Vsel-knots	Hull-E Power HP
<i>0.110</i>	<i>0.14855182</i>	<i>222.83</i>	<i>491.25</i>	<i>17.40</i>	<i>26.247</i>
<i>0.100</i>	<i>0.15054661</i>	<i>225.82</i>	<i>497.85</i>	<i>18.25</i>	<i>27.898</i>
<i>0.090</i>	<i>0.15318309</i>	<i>229.77</i>	<i>506.57</i>	<i>19.23</i>	<i>29.922</i>
<i>0.080</i>	<i>0.15756216</i>	<i>236.34</i>	<i>521.05</i>	<i>20.40</i>	<i>32.645</i>
<i>0.070</i>	<i>0.16305511</i>	<i>244.58</i>	<i>539.21</i>	<i>21.81</i>	<i>36.115</i>
<i>0.060</i>	<i>0.17282357</i>	<i>259.24</i>	<i>571.52</i>	<i>23.56</i>	<i>41.346</i>
<i>0.050</i>	<i>0.18409729</i>	<i>276.15</i>	<i>608.80</i>	<i>25.81</i>	<i>48.247</i>
<i>0.045</i>	<i>0.19337701</i>	<i>290.07</i>	<i>639.48</i>	<i>27.20</i>	<i>53.420</i>
<i>0.040</i>	<i>0.20493762</i>	<i>307.41</i>	<i>677.71</i>	<i>28.85</i>	<i>60.048</i>
<i>0.035</i>	<i>0.00000000</i>	<i>0.00</i>	<i>0.00</i>	<i>30.84</i>	<i>0.000</i>

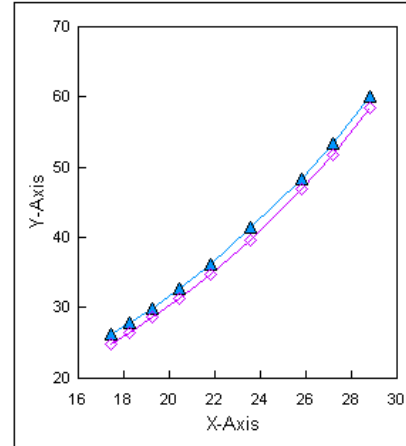
KARŞILAŞTIRMA

NSMET Model Sonuçuyla Savitsky+ Blount Hesaplama

Tekne Hızı	Nsmet Rbh	Savitsky Rbh
17.40	491.25	462.54
18.25	497.85	472.42
19.23	506.57	484.28
20.40	521.05	499.33
21.81	539.21	519.81
23.56	571.52	548.24
25.81	608.80	591.00
27.20	639.48	620.94
28.85	677.71	659.62
Knot	Libre	Libre



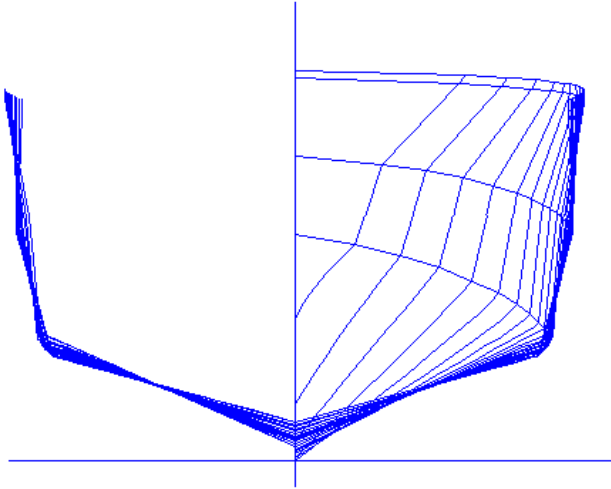
Tekne Hızı	Nsmet Ehp	Savitsky Ehp
17.40	26.25	24.70
18.25	27.90	26.46
19.23	29.92	28.58
20.40	32.65	31.26
21.81	36.12	34.79
23.56	41.35	39.64
25.81	48.25	46.81
27.20	53.42	51.83
28.85	60.05	58.40
Knot	HP	HP



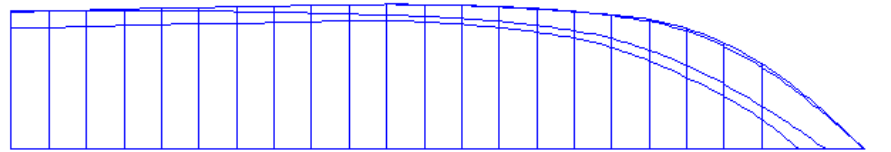
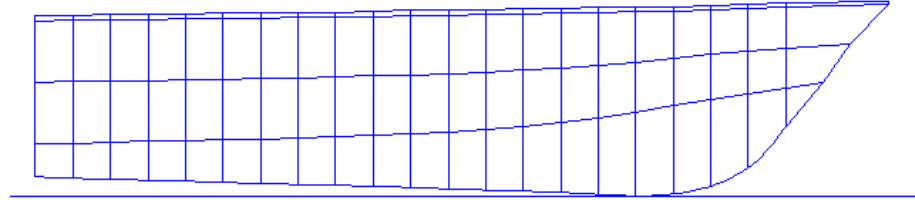
TEKNENİN BOYUTLARI

Loa TAM BOYU	5.900 metre
Lpx CENE BOYU	5.450 metre
Lwl SU HATTI BOYU	5.192 metre
Boa TAM ENİ	2.060 metre
Bpx CENE GENİŞLİĞİ	1.829 metre
Bwl SU HATTI ENİ	1.841 metre
Twl CENE BOYU ORTASINDAKİ SU KESİMİ	0.379 metre
TEKNE SU HATTINDAKİ AĞIRLIĞI Dep	2000.0 kg
CENE BOYU ORTASINDAKİ KALKINTI AÇISI	22.5 derece

Kalkinti Acisi 22.50 Derece Model



Tekne Ağırlığı 2000 kg



POWERING OF PLANING CHINE HULLS

17.50 ve 22.50 Derece Tekne değişik LCG Merkezlerindeki Güç değeri

24-Mar-2007
12:18:55 PM

Lpx	17.881 ft		5.450 Metre	Lpx/Bpx=	2.980
Bpx	6.000 ft		1.829 Metre		
Tpx - 22.50	1.243 ft		0.379 Metre		
17.50	0.946 ft		0.288 Metre		
Deplasman	2000.000	(22.5 deg)	1500.000 kg	(17.5 deg)	
Lcg	4.800 ft		1.463 Metre		

Lcg/B = 0.8000

Lcg/Lpx = 0.268

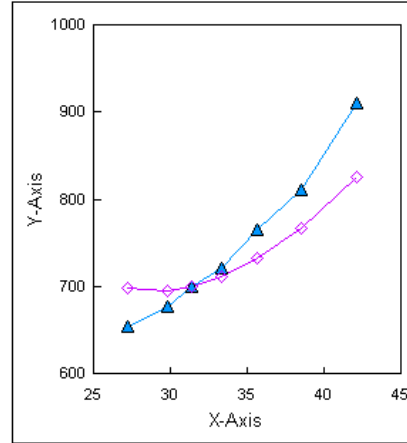
Cv	Rbh/Dep	Rbh - kg	Rbh - Libre	Vsel-knots	Hull-E Power HP
<i>0.060</i>	<i>0.14829744</i>	296.59	653.88	27.20	54.622
<i>0.050</i>	<i>0.15361087</i>	307.22	677.31	29.80	61.980
<i>0.045</i>	<i>0.15885075</i>	317.70	700.41	31.41	67.561
<i>0.040</i>	<i>0.16357249</i>	327.14	721.23	33.32	73.789
<i>0.035</i>	<i>0.17344989</i>	346.90	764.78	35.62	83.648
<i>0.030</i>	<i>0.18401386</i>	368.03	811.36	38.47	95.852
<i>0.025</i>	<i>0.20653198</i>	413.06	910.65	42.14	117.850

KARŞILAŞTIRMA

NSMET Model Sonuçuyla Savitsky+ Blount Hesaplama

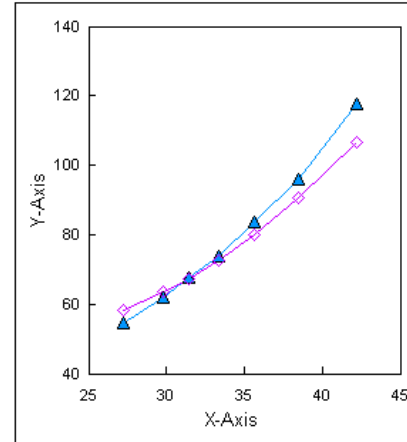
Tekne Hızı	Nsmet Rbh	Savitsky Rbh
27.20	653.88	697.82
29.80	677.31	694.68
31.41	700.41	699.73
33.32	721.23	711.10
35.62	764.78	732.21
38.47	811.36	767.43
42.14	910.65	826.17

Knot **Libre** **Libre**



Tekne Hızı	Nsmet Ehp	Savitsky Ehp
27.20	54.62	58.25
29.80	61.98	63.53
31.41	67.56	67.45
33.32	73.79	72.71
35.62	83.65	80.04
38.47	95.88	90.60
42.14	117.85	106.84

Knot **HP** **HP**



POWERING OF PLANING CHINE HULLS

17.50 ve 22.50 Derece Tekne değişik LCG Merkezlerindeki Güç değeri 24-Mar-2007

09:01:39 AM

Lpx	17.881 ft	5.450 Metre	Lpx/Bpx=	2.980
Bpx	6.000 ft	1.829 Metre		
Tpx - 22.50	1.243 ft	0.379 Metre		
17.50	0.946 ft	0.288 Metre		
Deplasman	2000.000 (22.5 deg)	1500.000 kg (17.5 deg)		
Lcg	5.400 ft	1.646 Metre		

Lcg/B = 0.9000

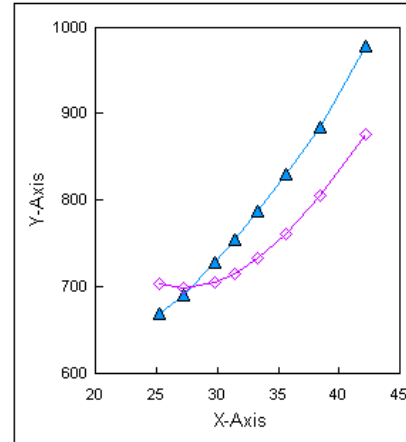
Lcg/Lpx = 0.302

Cv	Rbh/Dep	Rbh - kg	Rbh - Libre	Vsel-knots	Hull-E Power HP
<i>0.070</i>	<i>0.15179889</i>	<i>303.60</i>	<i>669.32</i>	<i>25.18</i>	<i>51.765</i>
<i>0.060</i>	<i>0.15679661</i>	<i>313.59</i>	<i>691.35</i>	<i>27.20</i>	<i>57.753</i>
<i>0.050</i>	<i>0.16521293</i>	<i>330.43</i>	<i>728.46</i>	<i>29.80</i>	<i>66.661</i>
<i>0.045</i>	<i>0.17126491</i>	<i>342.53</i>	<i>755.15</i>	<i>31.41</i>	<i>72.841</i>
<i>0.040</i>	<i>0.17841023</i>	<i>356.82</i>	<i>786.65</i>	<i>33.32</i>	<i>80.483</i>
<i>0.035</i>	<i>0.18809756</i>	<i>376.20</i>	<i>829.37</i>	<i>35.62</i>	<i>90.712</i>
<i>0.030</i>	<i>0.20054261</i>	<i>401.09</i>	<i>884.24</i>	<i>38.47</i>	<i>104.462</i>
<i>0.025</i>	<i>0.22174407</i>	<i>443.49</i>	<i>977.72</i>	<i>42.14</i>	<i>126.531</i>
<i>0.000</i>	<i>0.00000000</i>	<i>0.00</i>	<i>0.00</i>	ERR	ERR
<i>0.000</i>	<i>0.00000000</i>	<i>0.00</i>	<i>0.00</i>	ERR	ERR

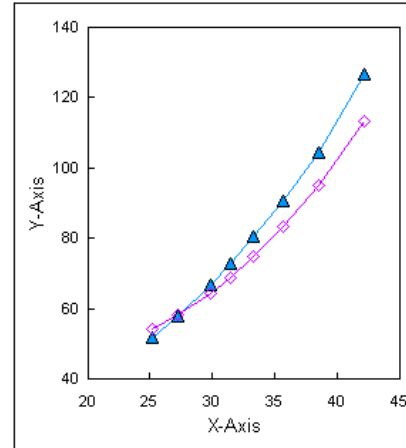
KARŞILAŞTIRMA

NSMET Model Sonuçuyla Savitsky+ Blount Hesaplama

Tekne Hızı	Nsmet Rbh	Savitsky Rbh
25.18	669.32	704.00
27.20	691.35	699.42
29.80	728.46	705.29
31.41	755.15	715.65
33.32	786.65	733.17
35.62	829.37	761.56
38.47	884.24	805.78
42.14	977.72	876.38
Knot	Libre	Libre



Tekne Hızı	Nsmet Ehp	Savitsky Ehp
25.18	51.77	54.40
27.20	57.75	58.38
29.80	66.66	64.50
31.41	72.84	68.98
33.32	80.48	74.97
35.62	90.71	83.25
38.47	104.46	95.13
42.14	126.53	113.33
Knot	HP	HP



POWERING OF PLANING CHINE HULLS

17.50 ve 22.50 Derece Tekne değişik LCG Merkezlerindeki Güç değeri

24-Mar-2007
09:02:53 AM

Lpx	17.881 ft		5.450 Metre	Lpx/Bpx=	2.980
Bpx	6.000 ft		1.829 Metre		
Tpx - 22.50	1.243 ft		0.379 Metre		
17.50	0.946 ft		0.288 Metre		
Deplasman	2000.000	(22.5 deg)	1500.000 kg	(17.5 deg)	
Lcg	6.000 ft		1.829 Metre		

Lcg/B = 1.0000

Lcg/Lpx = 0.336

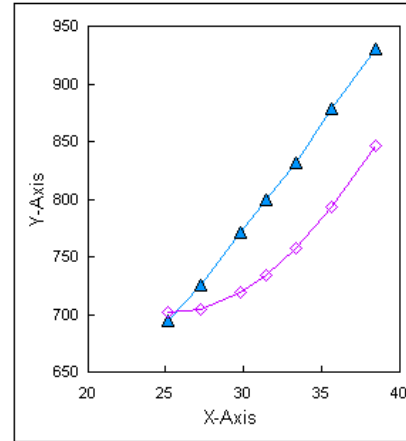
Cv	Rbh/Dep	Rbh - kg	Rbh - Libre	Vsel-knots	Hull-E Power HP
<i>0.070</i>	<i>0.15765359</i>	<i>315.31</i>	<i>695.13</i>	<i>25.18</i>	<i>53.761</i>
<i>0.060</i>	<i>0.16460089</i>	<i>329.20</i>	<i>725.76</i>	<i>27.20</i>	<i>60.628</i>
<i>0.050</i>	<i>0.17478374</i>	<i>349.57</i>	<i>770.66</i>	<i>29.80</i>	<i>70.523</i>
<i>0.045</i>	<i>0.18123834</i>	<i>362.48</i>	<i>799.12</i>	<i>31.41</i>	<i>77.083</i>
<i>0.040</i>	<i>0.18869477</i>	<i>377.39</i>	<i>832.00</i>	<i>33.32</i>	<i>85.122</i>
<i>0.035</i>	<i>0.19943596</i>	<i>398.87</i>	<i>879.36</i>	<i>35.62</i>	<i>96.180</i>
<i>0.030</i>	<i>0.21104775</i>	<i>422.10</i>	<i>930.56</i>	<i>38.47</i>	<i>109.934</i>
<i>0.025</i>	<i>0.00000000</i>	<i>0.00</i>	<i>0.00</i>	<i>42.14</i>	<i>0.000</i>
<i>0.000</i>	<i>0.00000000</i>	<i>0.00</i>	<i>0.00</i>	ERR	ERR
<i>0.000</i>	<i>0.00000000</i>	<i>0.00</i>	<i>0.00</i>	ERR	ERR

KARŞILAŞTIRMA

NSMET Model Sonuçuyla Savitsky+ Blount Hesaplama

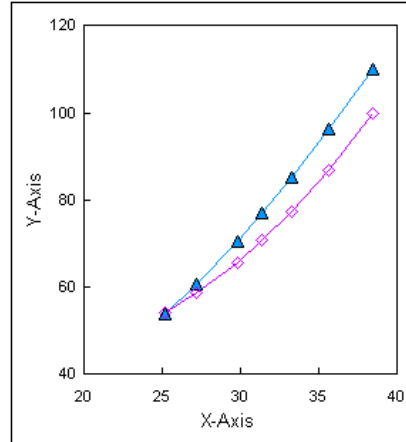
Tekne Hızı	Nsmet Rbh	Savitsky Rbh
25.18	695.13	701.88
27.20	725.76	704.44
29.80	770.66	718.94
31.41	799.12	734.39
33.32	832.00	757.92
35.62	879.36	793.34
38.47	930.56	846.27

Knot **Libre** **Libre**



Tekne Hızı	Nsmet Ehp	Savitsky Ehp
25.18	53.76	54.24
27.20	60.63	58.80
29.80	70.52	65.75
31.41	77.08	70.79
33.32	85.12	77.50
35.62	96.18	86.72
38.47	109.93	99.91

Knot **HP** **HP**



POWERING OF PLANING CHINE HULLS

17.50 ve 22.50 Derece Tekne değişik LCG Merkezlerindeki Güç değeri 24-Mar-2007

09:03:29 AM

Lpx	17.881 ft		5.450 Metre	Lpx/Bpx=	2.980
Bpx	6.000 ft		1.829 Metre		
Tpx - 22.50	1.243 ft		0.379 Metre		
17.50	0.946 ft		0.288 Metre		
Deplasman	2000.000	(22.5 deg)	1500.000 kg	(17.5 deg)	
Lcg	6.600 ft		2.012 Metre		

Lcg/B = 1.1000

Lcg/Lpx = 0.369

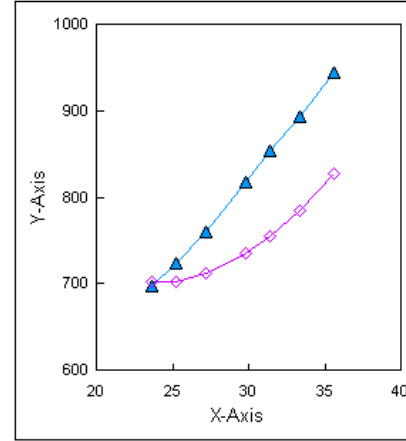
Cv	Rbh/Dep	Rbh - kg	Rbh - Libre	Vsel-knots	Hull-E Power HP
<i>0.080</i>	<i>0.15798397</i>	<i>315.97</i>	<i>696.59</i>	<i>23.56</i>	<i>50.394</i>
<i>0.070</i>	<i>0.16411849</i>	<i>328.24</i>	<i>723.64</i>	<i>25.18</i>	<i>55.966</i>
<i>0.060</i>	<i>0.17255164</i>	<i>345.10</i>	<i>760.82</i>	<i>27.20</i>	<i>63.556</i>
<i>0.050</i>	<i>0.18537412</i>	<i>370.75</i>	<i>817.36</i>	<i>29.80</i>	<i>74.796</i>
<i>0.045</i>	<i>0.19359973</i>	<i>387.20</i>	<i>853.63</i>	<i>31.41</i>	<i>82.340</i>
<i>0.040</i>	<i>0.20248226</i>	<i>404.96</i>	<i>892.79</i>	<i>33.32</i>	<i>91.342</i>
<i>0.035</i>	<i>0.21421628</i>	<i>428.43</i>	<i>944.53</i>	<i>35.62</i>	<i>103.308</i>
<i>0.025</i>	<i>0.00000000</i>	<i>0.00</i>	<i>0.00</i>	<i>42.14</i>	<i>0.000</i>
<i>0.000</i>	<i>0.00000000</i>	<i>0.00</i>	<i>0.00</i>	ERR	ERR
<i>0.000</i>	<i>0.00000000</i>	<i>0.00</i>	<i>0.00</i>	ERR	ERR

KARŞILAŞTIRMA

NSMET Model Sonuçuyla Savitsky+ Blount Hesaplama

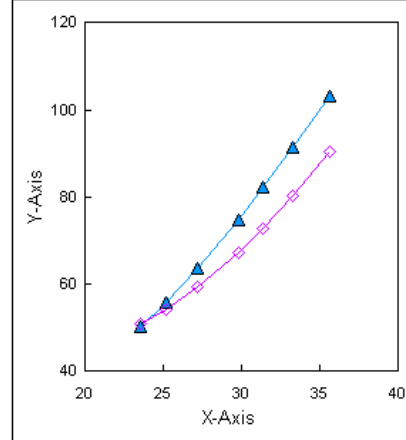
Tekne Hızı	Nsmet Rbh	Savitsky Rbh
23.56	696.59	702.92
25.18	723.64	702.79
27.20	760.82	712.29
29.80	817.36	735.14
31.41	853.63	755.51
33.32	892.79	784.68
35.62	944.53	826.89

Knot **Libre** **Libre**



Tekne Hızı	Nsmet Ehp	Savitsky Ehp
23.56	50.39	50.82
25.18	55.97	54.31
27.20	63.56	59.46
29.80	74.80	67.23
31.41	82.34	72.82
33.32	91.34	80.23
35.62	103.31	90.39

Knot **HP** **HP**



POWERING OF PLANING CHINE HULLS

17.50 ve 22.50 Derece Tekne değişik LCG Merkezlerindeki Güç değeri

24-Mar-2007

09:04:39 AM

Lpx	17.881 ft	5.450 Metre	Lpx/Bpx= 2.980
Bpx	6.000 ft	1.829 Metre	
Tpx - 22.50	1.243 ft	0.379 Metre	
17.50	0.946 ft	0.288 Metre	
Deplasman	2000.000 (22.5 deg)	1500.000 kg (17.5 deg)	
Lcg	7.200 ft	2.195 Metre	

Lcg/B = 1.2000

Lcg/Lpx = 0.403

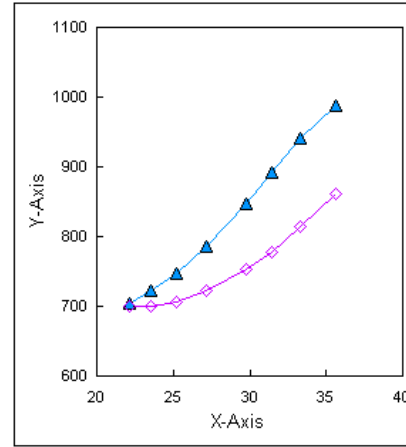
Cv	Rbh/Dep	Rbh - kg	Rbh - Libre	Vsel-knots	Hull-E Power HP
<i>0.090</i>	<i>0.15965181</i>	<i>319.30</i>	<i>703.94</i>	<i>22.21</i>	<i>48.014</i>
<i>0.080</i>	<i>0.16404048</i>	<i>328.08</i>	<i>723.29</i>	<i>23.56</i>	<i>52.326</i>
<i>0.070</i>	<i>0.16941905</i>	<i>338.84</i>	<i>747.01</i>	<i>25.18</i>	<i>57.773</i>
<i>0.060</i>	<i>0.17829207</i>	<i>356.58</i>	<i>786.13</i>	<i>27.20</i>	<i>65.670</i>
<i>0.050</i>	<i>0.19192341</i>	<i>383.85</i>	<i>846.24</i>	<i>29.80</i>	<i>77.438</i>
<i>0.045</i>	<i>0.20215181</i>	<i>404.30</i>	<i>891.34</i>	<i>31.41</i>	<i>85.977</i>
<i>0.040</i>	<i>0.21342163</i>	<i>426.84</i>	<i>941.03</i>	<i>33.32</i>	<i>96.277</i>
<i>0.035</i>	<i>0.22394845</i>	<i>447.90</i>	<i>987.44</i>	<i>35.62</i>	<i>108.001</i>
<i>0.000</i>	<i>0.00000000</i>	<i>0.00</i>	<i>0.00</i>	ERR	ERR
<i>0.000</i>	<i>0.00000000</i>	<i>0.00</i>	<i>0.00</i>	ERR	ERR

KARŞILAŞTIRMA

NSMET Model Sonuçuyla Savitsky+ Blount Hesaplama

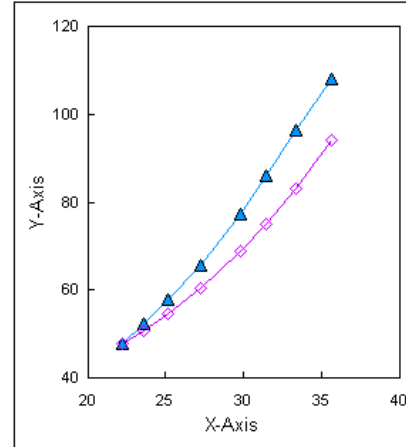
Tekne Hızı	Nsmet Rbh	Savitsky Rbh
22.21	703.94	700.18
23.56	723.29	700.49
25.18	747.01	706.13
27.20	786.13	722.50
29.80	846.24	753.61
31.41	891.34	778.52
33.32	941.03	813.25
35.62	987.44	862.07

Knot **Libre** **Libre**



Tekne Hızı	Nsmet Ehp	Savitsky Ehp
22.21	48.01	47.72
23.56	52.33	50.65
25.18	57.77	54.58
27.20	65.67	60.31
29.80	77.44	68.92
31.41	85.98	75.04
33.32	96.28	83.16
35.62	108.00	94.23

Knot **HP** **HP**



POWERING OF PLANING CHINE HULLS

17.50 ve 22.50 Derece Tekne değişik LCG Merkezlerindeki Güç değeri 24-Mar-2007

09:05:25 AM

Lpx	17.881 ft		5.450 Metre	Lpx/Bpx=	2.980
Bpx	6.000 ft		1.829 Metre		
Tpx - 22.50	1.243 ft		0.379 Metre		
17.50	0.946 ft		0.288 Metre		
Deplasman	2000.000	(22.5 deg)	1500.000 kg	(17.5 deg)	
Lcg	7.800 ft		2.377 Metre		

Lcg/B = 1.3000

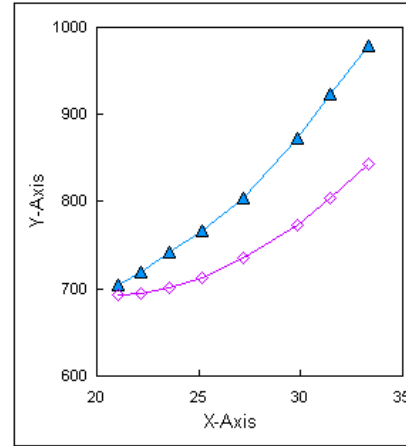
Lcg/Lpx = 0.436

Cv	Rbh/Dep	Rbh - kg	Rbh - Libre	Vsel-knots	Hull-E Power HP
<i>0.100</i>	<i>0.15980696</i>	<i>319.61</i>	<i>704.63</i>	<i>21.07</i>	<i>45.594</i>
<i>0.090</i>	<i>0.16321587</i>	<i>326.43</i>	<i>719.66</i>	<i>22.21</i>	<i>49.086</i>
<i>0.080</i>	<i>0.16837260</i>	<i>336.75</i>	<i>742.40</i>	<i>23.56</i>	<i>53.708</i>
<i>0.070</i>	<i>0.17389675</i>	<i>347.79</i>	<i>766.75</i>	<i>25.18</i>	<i>59.300</i>
<i>0.060</i>	<i>0.18240950</i>	<i>364.82</i>	<i>804.29</i>	<i>27.20</i>	<i>67.187</i>
<i>0.050</i>	<i>0.19802039</i>	<i>396.04</i>	<i>873.12</i>	<i>29.80</i>	<i>79.898</i>
<i>0.045</i>	<i>0.20922532</i>	<i>418.45</i>	<i>922.52</i>	<i>31.41</i>	<i>88.986</i>
<i>0.040</i>	<i>0.22198631</i>	<i>443.97</i>	<i>978.79</i>	<i>33.32</i>	<i>100.140</i>
<i>0.000</i>	<i>0.00000000</i>	<i>0.00</i>	<i>0.00</i>	ERR	ERR
<i>0.000</i>	<i>0.00000000</i>	<i>0.00</i>	<i>0.00</i>	ERR	ERR

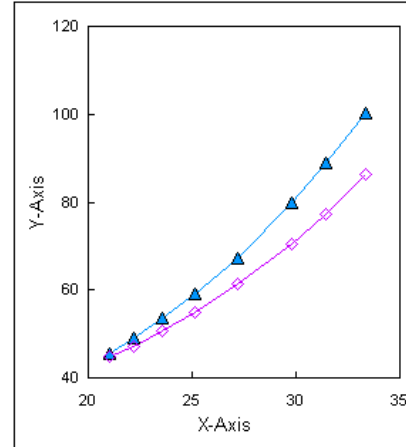
KARŞILAŞTIRMA

NSMET Model Sonuçuyla Savitsky+ Blount Hesaplama

Tekne Hızı	Nsmet Rbh	Savitsky Rbh
21.07	704.63	693.09
22.21	719.66	694.96
23.56	742.40	700.56
25.18	766.75	712.29
27.20	804.29	734.78
29.80	873.12	773.67
31.41	922.52	803.22
33.32	978.79	843.34
Knot	Libre	Libre



Tekne Hızı	Nsmet Ehp	Savitsky Ehp
21.07	45.59	44.81
22.21	49.09	47.37
23.56	53.71	50.65
25.18	59.30	55.04
27.20	67.19	61.33
29.80	79.90	70.35
31.41	88.99	77.42
33.32	100.14	86.23
Knot	HP	HP



POWERING OF PLANING CHINE HULLS

17.50 ve 22.50 Derece Tekne değişik LCG Merkezlerindeki Güç değeri 24-Mar-2007

09:06:08 AM

Lpx	17.881 ft	5.450 Metre	Lpx/Bpx=	2.980
Bpx	6.000 ft	1.829 Metre		
Tpx - 22.50	1.243 ft	0.379 Metre		
17.50	0.946 ft	0.288 Metre		
Deplasman	2000.000 (22.5 deg)	1500.000 kg (17.5 deg)		
Lcg	8.400 ft	2.560 Metre		

Lcg/B = 1.4000

Lcg/Lpx = 0.470

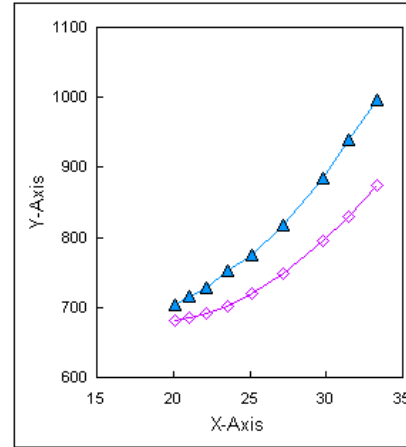
Cv	Rbh/Dep	Rbh - kg	Rbh - Libre	Vsel-knots	Hull-E Power HP
<i>0.110</i>	<i>0.15949537</i>	318.99	703.25	20.09	43.388
<i>0.100</i>	<i>0.16226288</i>	324.53	715.46	21.07	46.295
<i>0.090</i>	<i>0.16530208</i>	330.60	728.86	22.21	49.713
<i>0.080</i>	<i>0.17056755</i>	341.14	752.07	23.56	54.408
<i>0.070</i>	<i>0.17590394</i>	351.81	775.60	25.18	59.985
<i>0.060</i>	<i>0.18530425</i>	370.61	817.05	27.20	68.253
<i>0.050</i>	<i>0.20078298</i>	401.57	885.30	29.80	81.013
<i>0.045</i>	<i>0.21331095</i>	426.62	940.54	31.41	90.724
<i>0.040</i>	<i>0.22601560</i>	452.03	996.56	33.32	101.958
<i>0.000</i>	<i>0.00000000</i>	0.00	0.00	ERR	ERR

KARŞILAŞTIRMA

NSMET Model Sonuçuyla Savitsky+ Blount Hesaplama

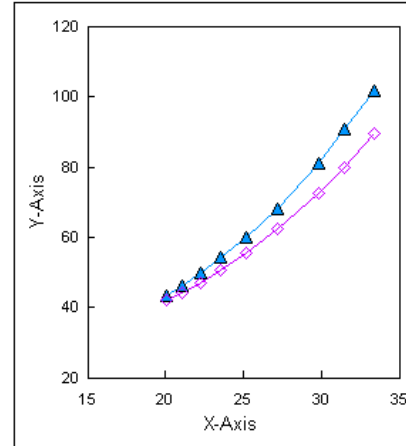
Tekne Hızı	Nsmet Rbh	Savitsky Rbh
20.09	703.25	681.74
21.07	715.46	685.60
22.21	728.86	692.21
23.56	752.07	702.90
25.18	775.60	720.17
27.20	817.05	748.92
29.80	885.30	795.61
31.41	940.54	829.70
33.32	996.56	875.07

Knot **Libre** **Libre**



Tekne Hızı	Nsmet Ehp	Savitsky Ehp
20.09	43.39	42.03
21.07	46.30	44.33
22.21	49.71	47.18
23.56	54.41	50.82
25.18	59.99	55.65
27.20	68.25	62.51
29.80	81.01	72.76
31.41	90.72	79.97
33.32	101.96	89.48

Knot **HP** **HP**



POWERING OF PLANING CHINE HULLS

17.50 ve 22.50 Derece Tekne değişik LCG Merkezlerindeki Güç değeri 24-Mar-2007

09:06:37 AM

Lpx	17.881 ft		5.450 Metre	Lpx/Bpx=	2.980
Bpx	6.000 ft		1.829 Metre		
Tpx - 22.50	1.243 ft		0.379 Metre		
17.50	0.946 ft		0.288 Metre		
Deplasman	2000.000	(22.5 deg)	1500.000 kg	(17.5 deg)	
Lcg	9.000 ft		2.743 Metre		

Lcg/B = 1.5000

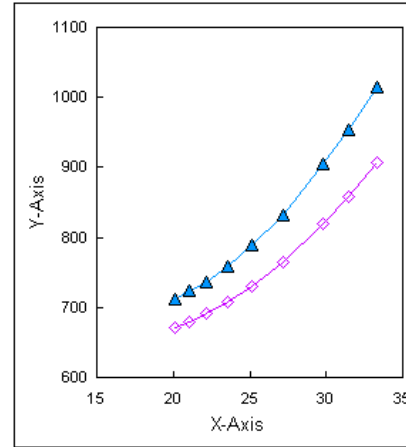
Lcg/Lpx = 0.503

Cv	Rbh/Dep	Rbh - kg	Rbh - Libre	Vsel-knots	Hull-E Power HP
<i>0.110</i>	<i>0.16165246</i>	323.30	712.76	20.09	43.974
<i>0.100</i>	<i>0.16405046</i>	328.10	723.34	21.07	46.805
<i>0.090</i>	<i>0.16683533</i>	333.67	735.62	22.21	50.174
<i>0.080</i>	<i>0.17230553</i>	344.61	759.74	23.56	54.963
<i>0.070</i>	<i>0.17892678</i>	357.85	788.93	25.18	61.015
<i>0.060</i>	<i>0.18843051</i>	376.86	830.84	27.20	69.405
<i>0.050</i>	<i>0.20548695</i>	410.97	906.04	29.80	82.911
<i>0.045</i>	<i>0.21639576</i>	432.79	954.14	31.41	92.036
<i>0.040</i>	<i>0.23010808</i>	460.22	1014.60	33.32	103.804
<i>0.000</i>	<i>0.00000000</i>	0.00	0.00	ERR	ERR

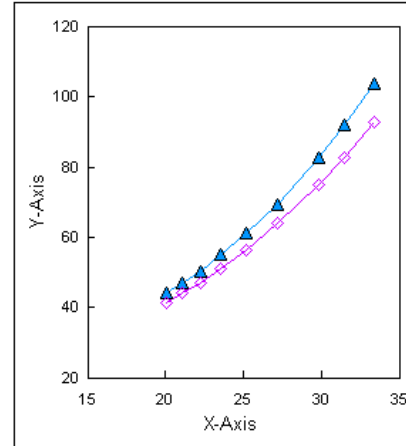
KARŞILAŞTIRMA

NSMET Model Sonuçuyla Savitsky+ Blount Hesaplama

Tekne Hızı	Nsmet Rbh	Savitsky Rbh
20.09	712.76	672.33
21.07	723.34	680.59
22.21	735.62	691.83
23.56	759.74	707.50
25.18	788.93	730.18
27.20	830.84	765.11
29.80	906.04	818.94
31.41	954.14	857.43
33.32	1014.60	907.89
Knot	Libre	Libre



Tekne Hızı	Nsmet Ehp	Savitsky Ehp
20.09	43.97	41.45
21.07	46.81	44.00
22.21	50.17	47.15
23.56	54.96	51.15
25.18	61.02	56.42
27.20	69.41	63.86
29.80	82.91	74.89
31.41	92.04	82.65
33.32	103.80	92.83
Knot	HP	HP



HERHANGİ BİR BOYUT ALINARAK HESAPLAMA SONUÇLARI

Teknemiz Mevcut modelimizin deęişik boyutlandırmasıdır.

Kalkıntı açısı 22.5 derece olarak hazırlanmıştır.

Yalnız tekнемiz yüksek hızda seyrettięi için bu hesaplamada

Teknemizin stable olup olmadığını bilemiyoruz. Bilebilmek

İçin Savitsky Yöntemiyle hesaplamak gerekmektedir.

Efektif Güç sonuçlarına bakarak az bir fark görülmektedir.

OPC Toplam verimi % 65 olarak alırsak 33 knot sürat elde

Etmek istersek $175/0.65=270$ hp + %3 Şaft Kaybı + % 10 güç

Toleransı toplam 310 hp gerekmektedir.

Savitskye göre ise 310 hp ile bu tekne 35 knot yapması

Gerekmemtedir.

POWERING OF PLANING CHINE HULLS

17.50 ve 22.50 Derece Tekne değişik LCG Merkezlerindeki Güç değeri

24-Mar-2007
12:51:43 PM

Lpx	22.000 ft	6.706 Metre	Lpx/Bpx= 2.716
Bpx	8.100 ft	2.469 Metre	
Tpx - 22.50	1.678 ft	0.511 Metre	
17.50	1.277 ft	0.389 Metre	
Deplasman	4487.455 kg		
Lcg	8.100 ft	2.469 Metre	

Lcg/B = 1.0000

Lcg/Lpx = 0.368

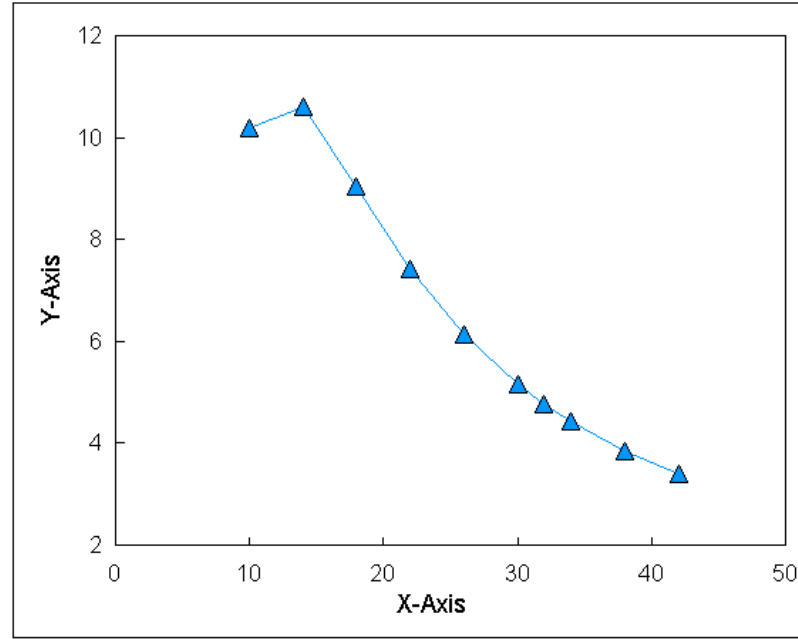
Cv	Rbh/Dep	Rbh - kg	Rbh - Libre	Vsel-knots	Hull-E Power HP
0.070	0.15823596	710.08	1565.45	27.94	134.336
0.060	0.16492906	740.11	1631.67	30.18	151.236
0.050	0.17502070	785.40	1731.50	33.06	175.808
0.045	0.18087556	811.67	1789.43	34.85	191.517
0.040	0.18768112	842.21	1856.75	36.97	210.778
0.035	0.19753938	886.45	1954.28	39.52	237.167
0.030	0.20883278	937.13	2066.01	42.68	270.815
0.000	0.00000000	0.00	0.00	ERR	ERR
0.000	0.00000000	0.00	0.00	ERR	ERR
0.000	0.00000000	0.00	0.00	ERR	ERR

KARŞILAŞTIRMA

NSMET Model Sonuçuyla Savitsky+ Blount Hesaplama

Tekne Hızı
10.00
14.00
18.00
22.00
26.00
30.00
32.00
34.00
38.00
42.00
Knot

Trim Savitsky
10.19
10.62
9.06
7.43
6.14
5.17
4.77
4.43
3.85
3.40
degree



Tekne Hızı
27.94
30.18
33.06
34.85
36.97
39.52
42.68

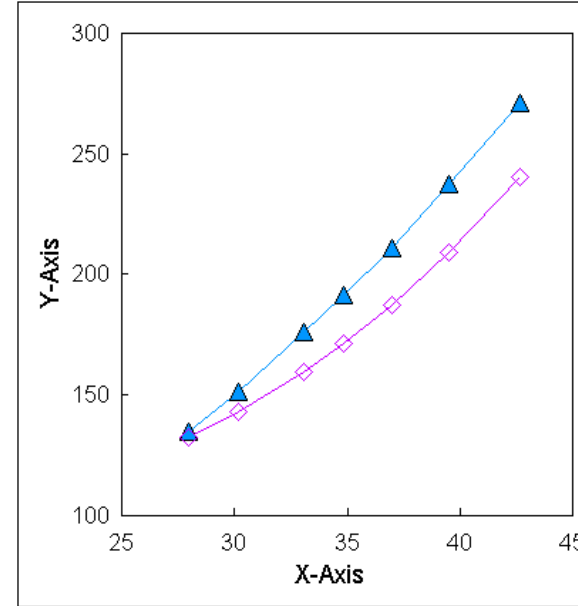
Nsmet Ehp
134.34
151.24
175.81
191.52
210.78
237.17
270.82

Savitsky Ehp
132.19
142.97
159.43
171.33
187.19
209.01
240.20

Knot

HP

HP



*AYNI BOYLARDA AYNI
AĞIRLIKTA OLAN İKİ
TEKNENİN FARKLI KALKINTI
AÇILARINA GÖRE
KARŞILAŞTIRILMASI*

POWERING OF PLANING CHINE HULLS

17.50 ve 22.50 Derece Tekne deęişik LCG Merkezlerindeki Güç deęeri 05-Apr-2007

08:44:58 AM

Lpx	17.000 ft	5.182 Metre	Lpx/Bpx=	2.764
Bpx	6.150 ft	1.875 Metre		
Tpx - 22.50	1.274 ft	0.388 Metre		
17.50	0.970 ft	0.296 Metre		
Deplasman	1998.971 kg			
Lcg	6.150 ft	1.875 Metre		

$$\text{Lcg/B} = 1.0000 \quad \text{Lcg/Lpx} = 0.362$$

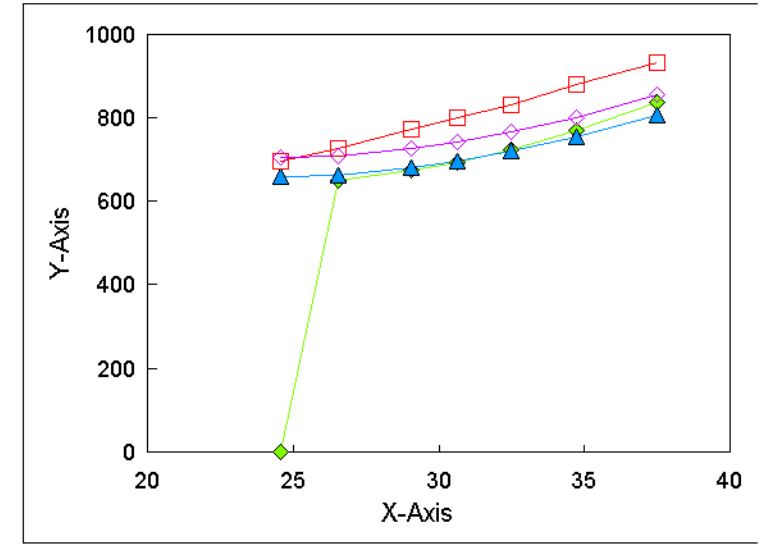
Cv	Rbh/Dep	Rbh - kg	Rbh - Libre	Vsel-knots	Hull-E Power HP
----	---------	----------	-------------	------------	-----------------

KARŞILAŞTIRMA

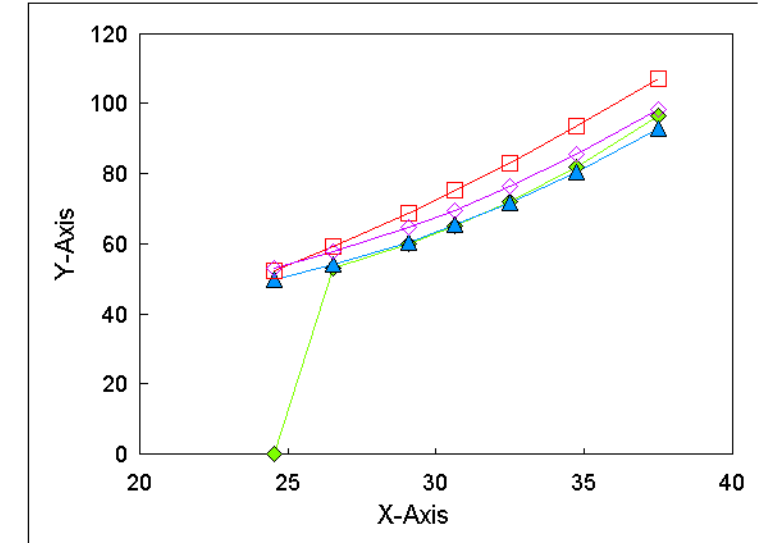
05-Apr-2007

NSMET 17.5 ile 22.5 Modellerin Sonuçuyla Savitsky+ Blount Hesaplama

Tekne Hızı	Nsmet Rbh 17.5 deg	Savitsky Rbh 17.5 deg	Nsmet Rbh 22.5 deg	Savitsky Rbh 22.5 deg
24.56	0.00	659.90	694.77	704.24
26.53	649.59	662.87	725.39	708.51
29.06	673.08	678.70	770.27	724.64
30.64	692.92	694.56	798.71	740.61
32.50	722.30	718.28	831.57	764.77
34.74	768.47	753.68	878.91	800.63
37.52	836.55	806.70	930.00	854.55
Knot	Libre	Libre	Libre	Libre



Tekne Hızı	Nsmet Ebh 17.5 deg	Savitsky Ebh 17.5 deg	Nsmet Ebh 22.5 deg	Savitsky Ebh 22.5 deg
24.56	0.00	49.74	52.41	53.08
26.53	52.93	53.97	59.10	57.68
29.06	60.08	60.52	68.75	64.62
30.64	65.19	65.31	75.15	69.64
32.50	72.08	71.64	82.98	76.27
34.74	81.98	80.35	93.76	85.38
37.52	96.39	92.88	107.17	98.39
Knot	HP	HP	HP	HP



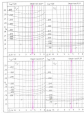


Fig. 10

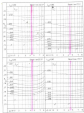


Fig. 11

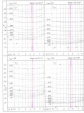


Fig. 12



Fig. 13

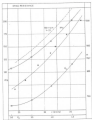


Fig. 7

compared to that of full-scale craft and they have been found to be in general agreement.

In Fig. 7 the effect of a distance V_{12} is shown that, if there the $CG - CB$ is multiplied with v , is 0.57 and corresponds to a craft weighing 4,500 kg (10,000 lb.).

From the clear agreement between the model 7 per cent below the minimum predicted from Figs. 6(a) and the corresponding full-scale conditions, it is concluded that the graphs presented here will give accurate predictions of the high-speed resistance of planing craft of size and proportions in general use.

DEFINITION

- A_{12} = projected planing bottom area, including area of internal spray strips
- B = maximum breadth
- B_{12} = mean breadth over chine, A_{12}/L_{12}
- B_{12}^* = breadth over chine, excluding internal spray strips
- B_{12}^{**} = maximum breadth over chine, including external spray strips
- b = breadth over spray strips, at longitudinal location of center of gravity
- CG = center of gravity
- C_D = wet coefficient, $\lambda/(\rho v^2 S)$
- C_F = Froude number based on volume, v/\sqrt{gV}
- L_{12} = maximum length
- L_{12}^* = projected chine length
- L_{CG} = longitudinal center of gravity location
- L_{CB} = distance of center of buoyancy forward of maximum
- M = total resistance
- v = speed
- v_{12} = slip velocity
- v_{12}^* = transverse velocity
- V = displacement, weight of
- V_{12} = displacement, volume of

(Ref. 1) E. P. Clement, *Resistance Tests of a Systematic Series of Planing Hull Forms*, NACA: 1944.

(Ref. 2) E. P. Clement, *Analyzing the Sluice Planing Test*, DTMB Report 1957.

SECOND ICBMA BOATING SAFETY CONFERENCE

the safety and standard committee of the International Council of Motor Industry Associations comprising 20 associations from 12 countries met at the Park Avenue Hotel, Cologno, at the invitation of the Cologno Boating Society, International Boat Show.

The conference was opened by the Mayor of Cologno, Capt. Mario Ramoni, who stressed the need for uniform international standards on safety and construction. He also suggested that continuation of the standards of other safe activities and sporting might well be included in the work of the Conference as this matter was also being affecting by safety of craft.

The Conference, under the Chairmanship of G. Belloni (Switzerland) then proceeded to arrive in detail the work carried out over the past three years. Following this an experimental paper presented by P. Sabin (Switzerland) was considered. This set out the experimental studies required to establish working arrangements between the various countries concerned and to derive the tests used into four categories, namely: 1. Small Boat Safety Division, up to 7 meters overall; 2. Boat Division; 3. Machinery and Electric Division; 4. Equipment Division (following and general). The four working committees to be formed would report directly to the main safety committee who in turn would send the recommendations to

ICBMA members. Co-ordinators would be appointed for each special function in relation and otherwise.

Among technical papers presented were: Boating Accidents Statistics Reports from Member Countries, by W. Linton (English); Safety Factors in Boat Design, by G. Morris, by T. Knapczyk (Poland); Standards Problems for Motor Installation, by G. Ward (U.S.A.); Fuel Tanks, by G. Bannister (France); Housings and Steering Gears, by B. Schreier (English); and Boat Construction, by H. J. van Vollenhoven (Holland).

Second Southampton Boat Show

Southampton's second Boat Show is to be held from November 23 to October 1, 1970. Once again it will be at Marlborough Park with the help of the big boats on nearby quays. There will be extra berthing space this year for boats exhibited (after) from the show yards which are getting up on trial in Southampton Water and will be important to further visitors. Last year this was the most popular feature of the show, which made contact and underwater work will also be in use on show.

The show organizers, who have the approval of Southampton Chamber of Commerce and the S.M.B.A., are J. E. Adams and Perkins.