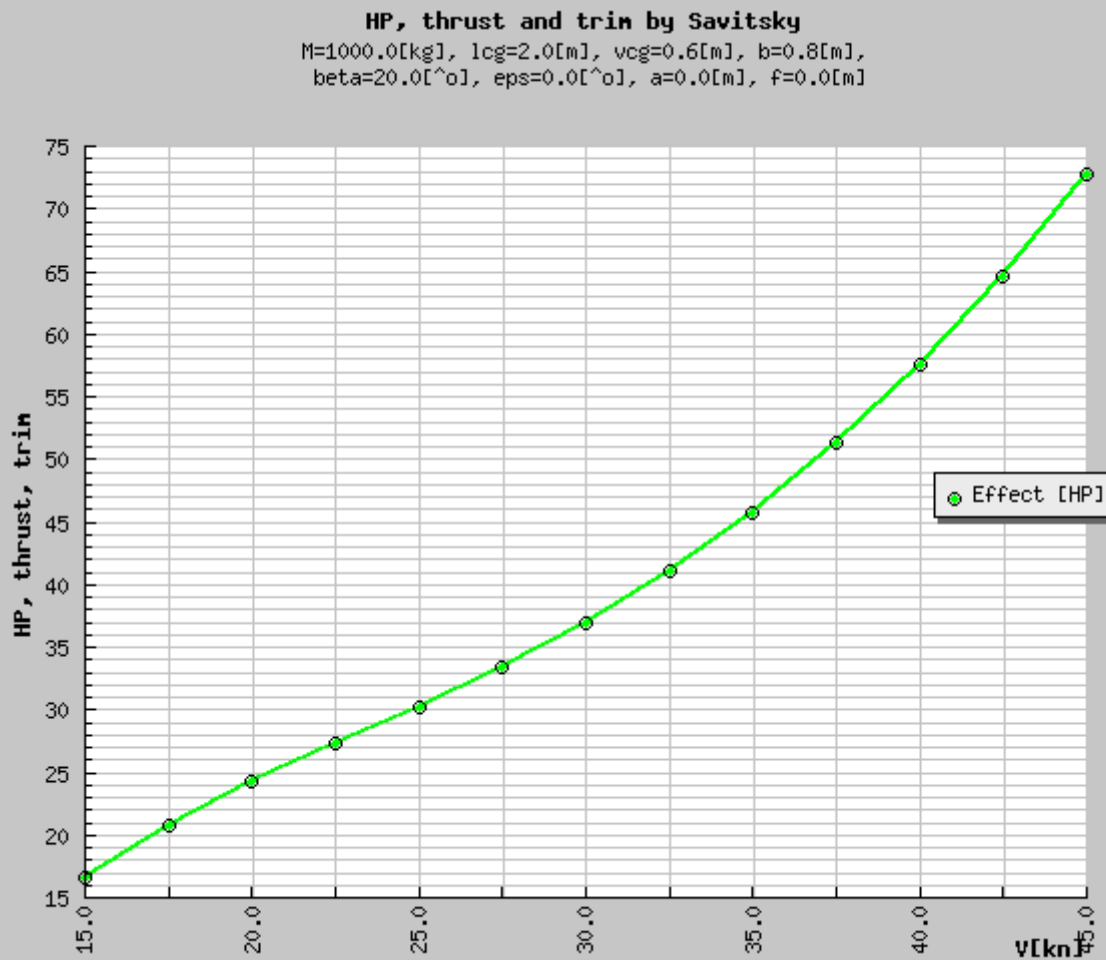


Hydrodynamic design of planing hulls

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Results from the Savitsky procedures.

the required thrust [kg] and horse power [hk] as well as trim angle and porpoising stability for a given planing boat and a given velocity range. The interested reader should read the original paper which gives more data on several topics : lift, drag, wetted area, center of pressure, porpoising stability as a function of speed, trim angle, deadrise angle and loading. The paper may also help you to better understand the physics.

INPUT :

Mdepl[kg]	<input type="text" value="1000"/>
l _{cg} [m]	<input type="text" value="2"/>
v _{cg} [m]	<input type="text" value=".6"/>
b [m]	<input type="text" value=".8"/>
β [°]	<input type="text" value="0"/>
ε [°]	<input type="text" value="0.0"/>
a [m]	<input type="text" value="0.0"/>
f [m]	<input type="text" value="0.0"/>

OUTPUT:

<input type="checkbox"/> HP
<input type="checkbox"/> Thrust
<input type="checkbox"/> Trim
<input type="checkbox"/> L _k
<input type="checkbox"/> D
<input type="checkbox"/> Porpoising