



3. Main Particulars of the Training/research Vessel –Navigator XXI

Navigator XXI is a training/research vessel of Maritime Academy (former Maritime University –WSM) of Szczecin in Poland. This part of report contains geometrical data of ship, geometry of ship model (M588) and geometry of CP 401 propeller used as a stock propeller.

3.1. Navigator XXI Hull Particulars

Length overall	L_{OA}	60.30 m
Length on water –line	L_{WL}	55.16 m
Length between perpendiculars	L_{pp}	54.13 m
Breadth moulded	B	10.50 m
Draught: fore	T_F	3.15 m
aft	T_A	3.20 m
Depth	H	4.20 m
Displacement volume	D_{isv}	1126 m ³
Wetted surface	S	672 m ²
Block coefficient	C_B	0.623
Midsection coefficient	C_M	0.915
Prismatic coefficient	C_P	0.680
Waterline coefficient	C_W	0.824

3.2. Navigator Model Particulars

Ship model M588 is manufactured according to following drawings: NAPA file NAWIG210A.

Model scale: 1: 10 Model was manufactured of wood.

Model finish: Outer surface of the model is considered to be hydrodynamically smooth.

Turbulence stimulator: trip wire on station No. 19.

Appendages: none.



3.3. Body Lines of the WSM Training/research Vessel, Navigator XXI

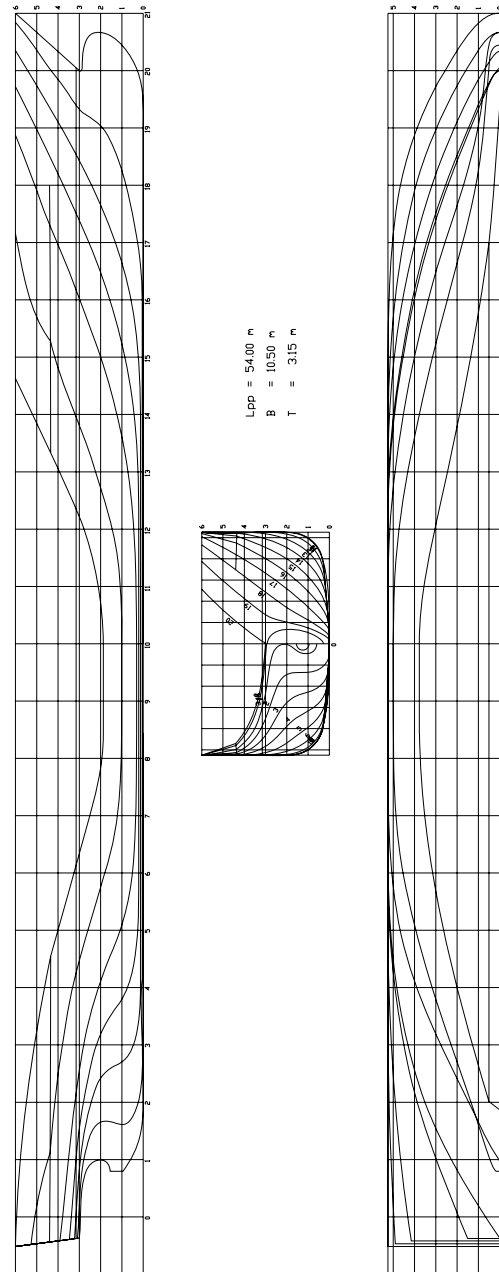


Figure 1: Body lines of the training/research WSM vessel, Navigator XXI drawn in NAPA



3.5. Figures of the Model Built at CTO



Figure 3: Photos of M588 -Navigator model