Abstract

The invention relates to a vehicle with total or partial sail propulsion comprising a hull (j), at least one sail, inflatable or not, at least one self-supporting mast (l) having a vertical axis, said mast comprising a fixed part (o) disposed at hull level and a movable part (p) that can move about the vertical axis. This vehicle is characterized in that said mast (l) comprises, in the fixed part (o), sensors for measuring physical parameters intended to supply digital data on the thrust force, the drift force, the differential pressure of the sail, or else, in the movable part (p), sensors for measuring physical parameters intended to supply digital data on the aerodynamic thrust force projected in the axis of the sail, the aerodynamic thrust force projected in the axis at right angles to the sail, the differential pressure of the sail.

Figure for the abstract: figure 1