

A Pictorial Demonstration of the Development of a
Sailing Inflatable Kayak

utilising the BSD Batwing Sail and BOSS outrigger system
in conjunction with a
Gumotex Helios 380 inflatable kayak

by Neal Graneau



designed for airline transport – total weight of boat and rig ~ 32 kg



stern transom fitting : the three bolts go through holes in a the hypalon flap, that is designed for the Gumotex rudder. The Gumotex model would be too weak for sailing



transom attached to stern of boat



Rudder attached and in down position held by elastic cord. The previous pintle was damaged by rot and the existing one came from a "Sunfish" and bodged together



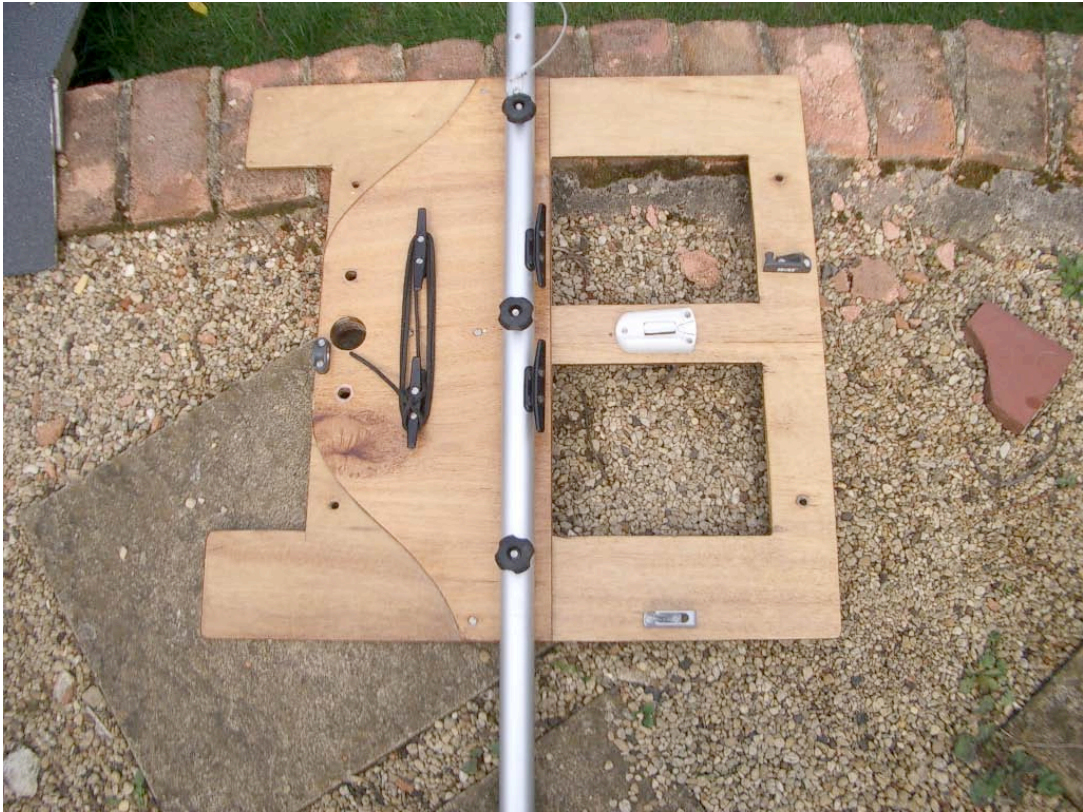
Rudder in up position for beaching



rudder showing yoke



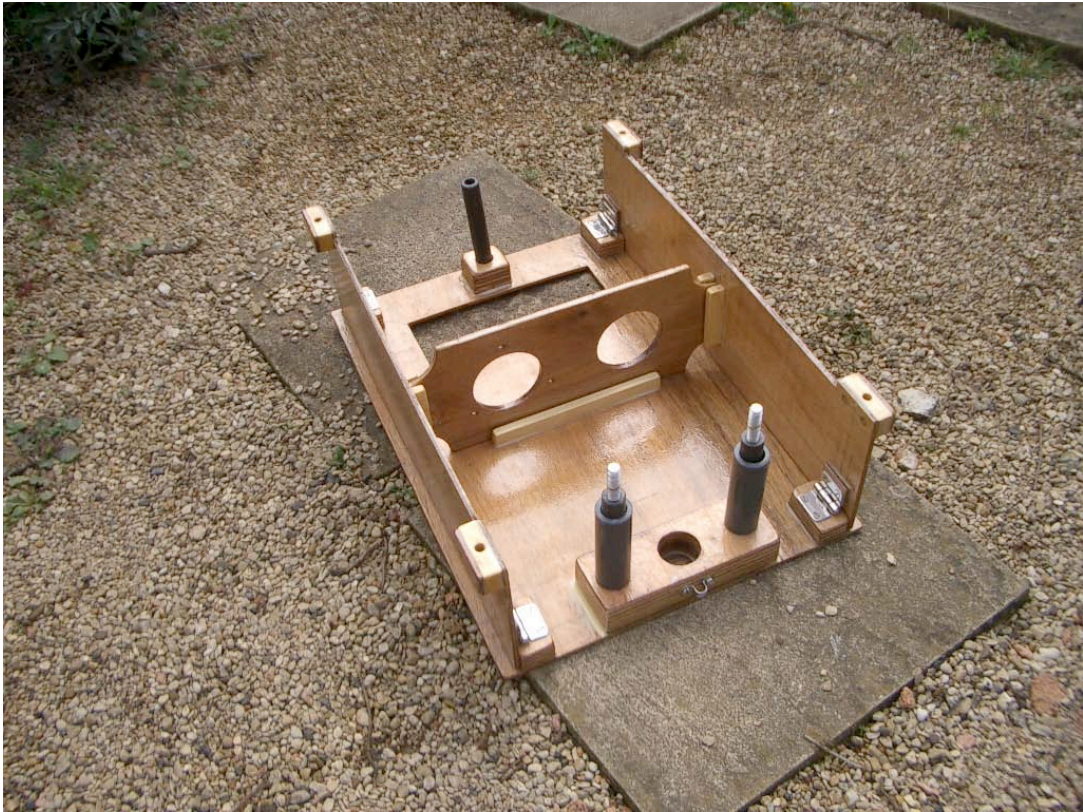
Two sections of top plate of rig support system, to be bolted together with the outrigger thwart. There are two sections to ease packing for airline transport



assembled top plate



bottom section of rig support system (folded for transport)



bottom section unfolded showing PVC support legs and M12 stainless bolts



mast support system fully assembled (front view)



mast support system fully assembled (top view)



bottom section of rig support system strapped into boat using existing tie down points that are originally intended to support gumotex paddling foot supports



mast foot in situ



mast support system installed in boat



carbon fibre mast, sail and outriggers installed



cockpit, showing steering lines, red ropes kept in tension by black bungee cord and controlled by black foot stirrups



view from the cockpit



At anchor in the mysterious shallow waters of the Bahamas