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 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