

## **U20 Carbon Rig Project**

September 2009

The Carbon Rig Project was initiated with discussions held between Drew Harper, Albert Heller and myself at Lake Norman in November 2008. At that time, Drew took the lead and collected \$700 from individual class members. The Class Association kicked in \$1000, as did Albert Heller. Wi2 10..4 619.92 Tm [(b)7(e)7(rs)22(.)-8( )15( )-8(T)-9(h)7(e)7454A7(e)7

## ***Mast Measurements***

Albert and I, with Fn fro Van Sheppard, Gregg Hening and Don Corey measured 6 masts:  
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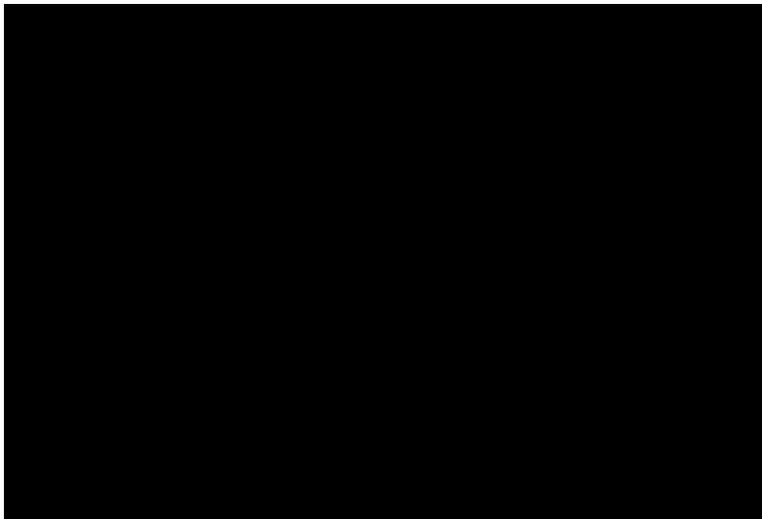
## Mast bend measurements



Figure 2: Suspending the weights



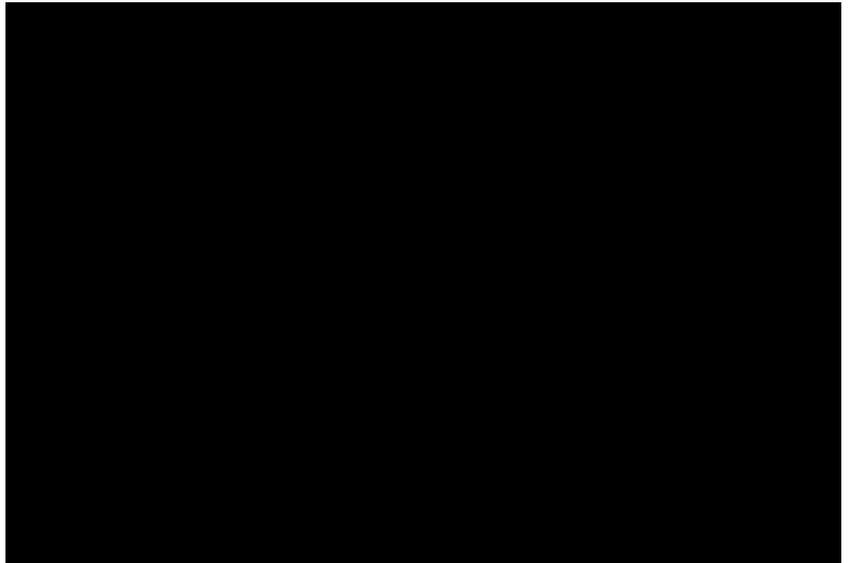
Figure 3 Side bend is 3 t1ms f [[:o-9(u)-9(r)][(3)] TJ ET Q q BT /F1 10.08 Tf 0 0 0 rg





## Differences

- 1) The main halyard exit is low on the port side
- 2) The main halyard is 2 to 1 and belays at a horn cleat on the aft face of the mast.







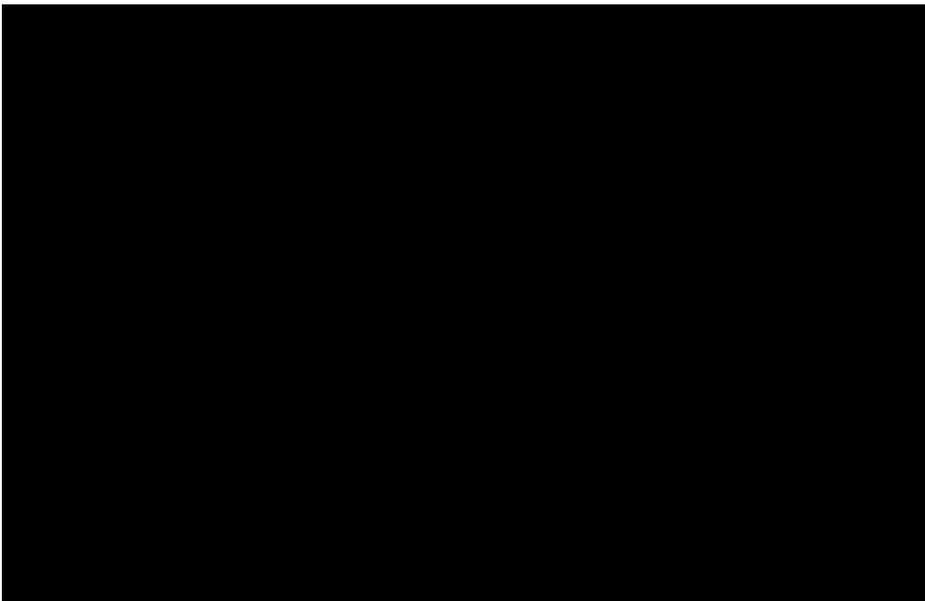
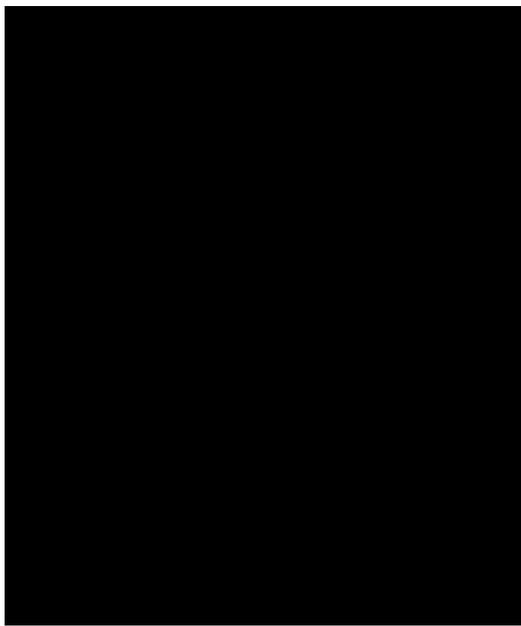
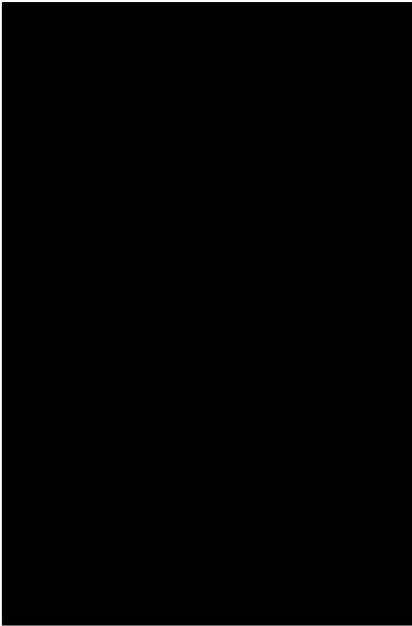
Our confidence in the mast is very high. We certainly would not have been worried about the mast coming down on Friday at the 2009 North Americans. Winds were 12-15 gusting 18 in the morning, and 22-25 knots with higher sustained gusts in the afternoon.

### ***Where to now***

Current plans have various skippers from the Ottawa area using #183 in local races. We will gather feedback from them.

We plan to attend the November regatta in Lake Norman, NC. We will arrive a day or two early to give attendees a chance to take the prototype for a sail to see for themselves.

***Other photos***



**Figure 5 You can see the outline of the old mast on the base plate**

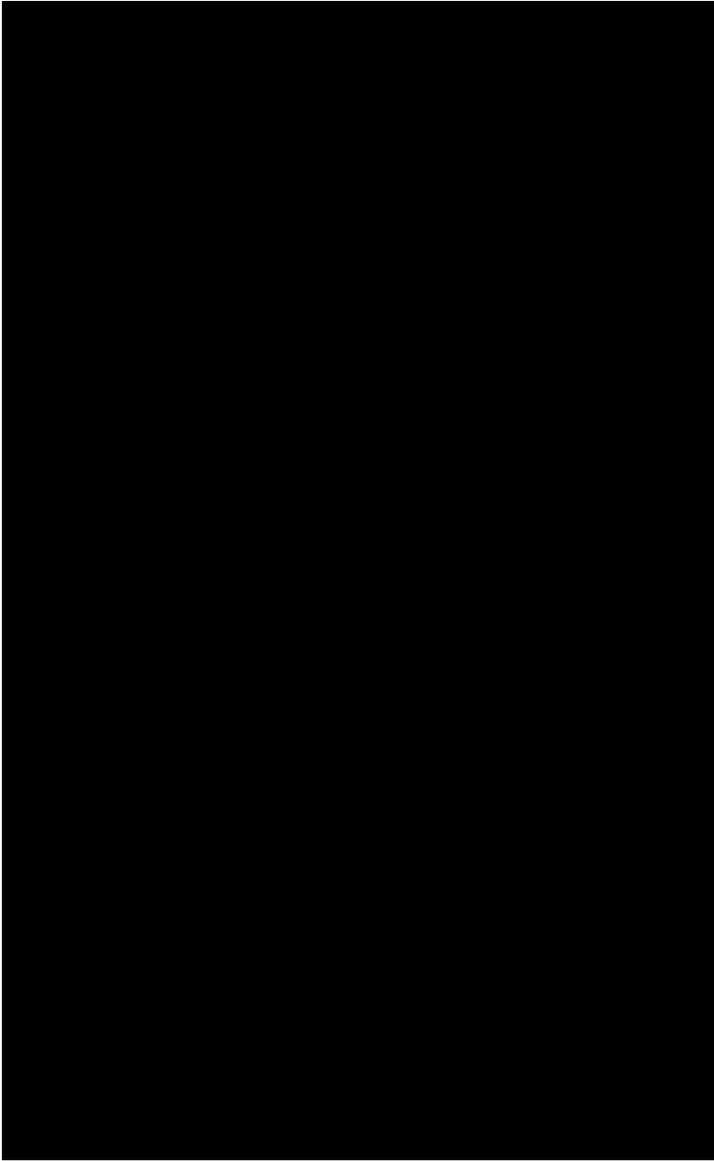


Figure 6 nice!..... :-)