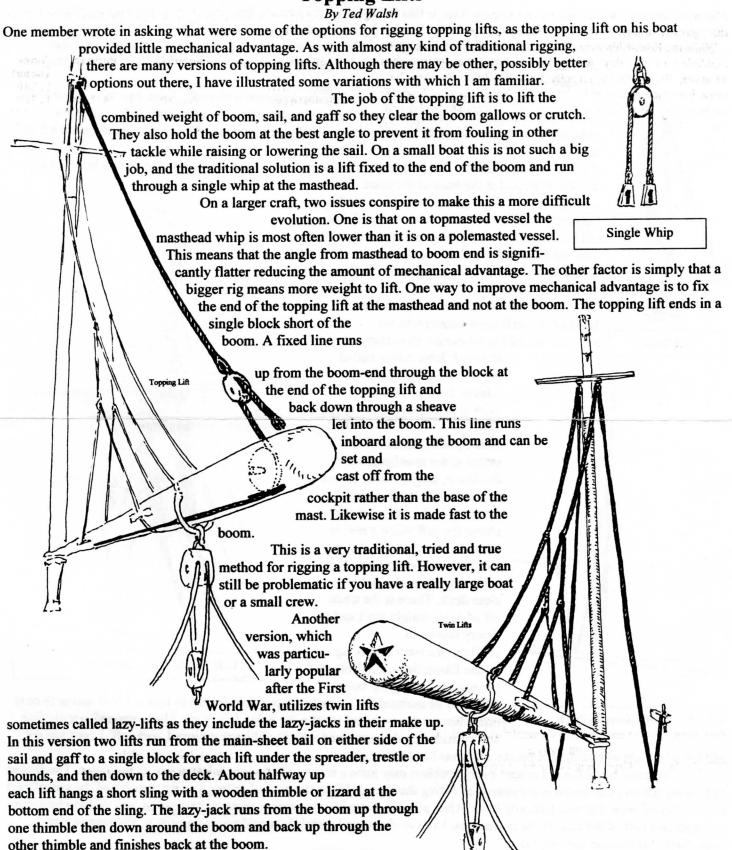
Topping Lifts



There are several advantages to this system. One is that the angle of the lifts are less flat because the topping lifts end at the mainsheet bail rather than the end of the boom, improving the mechanical advantage. The other is that you can place a crewmember on each topping lift, effectively doubling the applied muscle. Another advantage is that the gaff and

mainsail are less likely to run afoul of your topping lifts because even when fully lowered they lie

between the two lifts.

The disadvantages to this system become apparent with really large rigs. It is possible for the weight to exceed the strength of two of even the strongest crewmembers. In this case one solution is to fix the end of the topping lift to a luff tackle on deck. This gives a mechanical advantage of

three-to-one to each lift. The problem is that when the lifts are slack you now have a luff tackle

thrashing around at the base of the mast. This can be a hazard when going forward or tending halyards. Still, the system works well and does not add weight aloft. I have seen this system used on English Pilot Cutters where it is common, but on this side of the Atlantic, I have rarely seen it.

The last version with which I am familiar is much more common to the mainsails of fishing schooners than sloops,

although John Alden called for it in the rigging plan of Aimee, built in 1905 by Wilbur Morse (see J.A. design #8).

This version places the luff tackle at the masthead with the lower, single block, placed so that it is below the gaff when the sail is fully set and above the gaff when a reef is taken in. The result is that you still have a three-to-one advantage on each lift and a clear deck. There is the trade off of more weight aloft and in theory more sail chafing. We went to this rig

on the Black Star, and I like it because we have a 32' boom

Luff Tackle at the Masthead

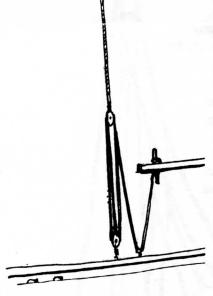
with 620' of mainsail and it makes it possible for me to take the boat out with only one other person on board to take the helm. I can't say I have noticed any chafing and considering the combined weight of boom, mainsail, and gaff, I can't say the

additional weight of two double blocks aloft has been noticeable.

To paraphrase the old adage: every problem may have a solution but every solution has its problems. The choice of topping lift on your vessel is a question of fitting the type of lift to the type of sailing you do, the size of the vessel, and the number of crew that you typically have. Also, all of us have idiosyncrasies, what we're used to, and that too becomes an important part of the mix. If the system you have works, then I certainly would not mess with it; for anyone else, I hope these illustrations are helpful.







Luff Tackle on Deck