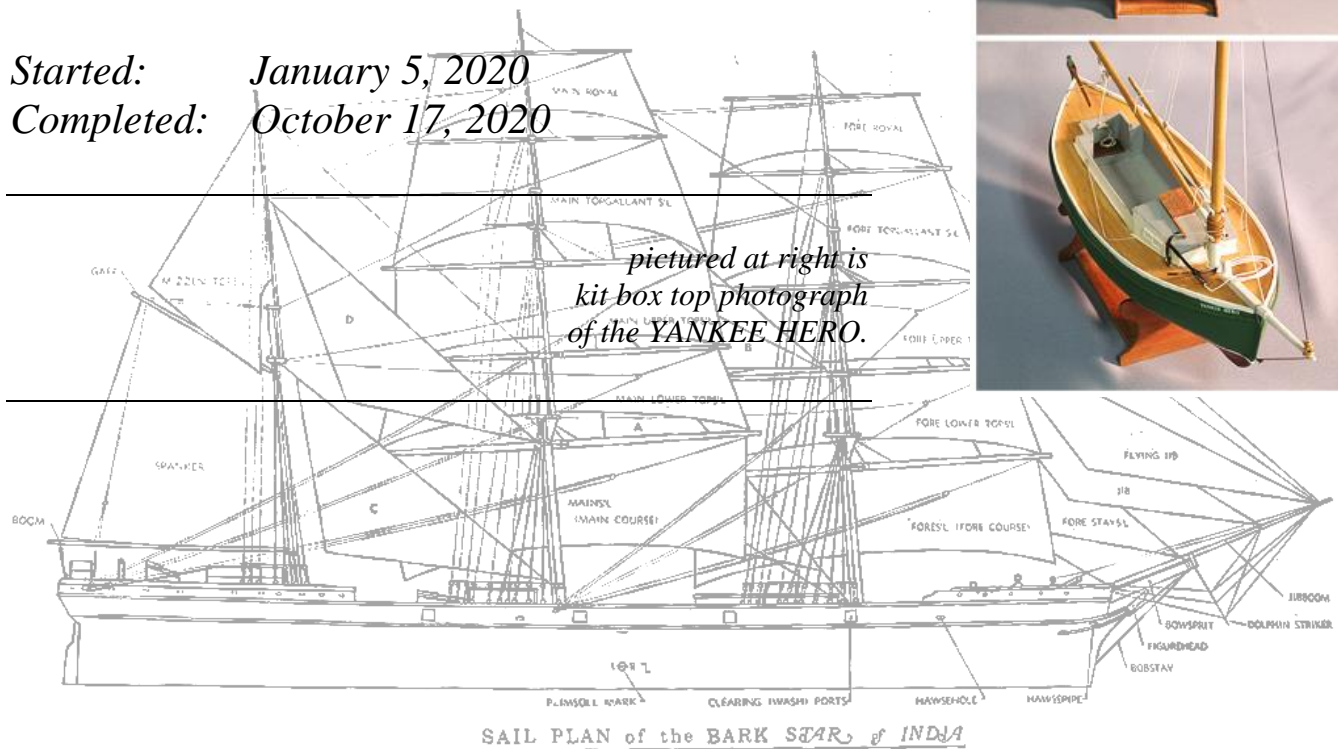




**Build No. 4**  
**Quoddy Boat *YANKEE HERO* (1889)**

Started: January 5, 2020  
Completed: October 17, 2020





# SAN DIEGO SHIP MODELERS GUILD

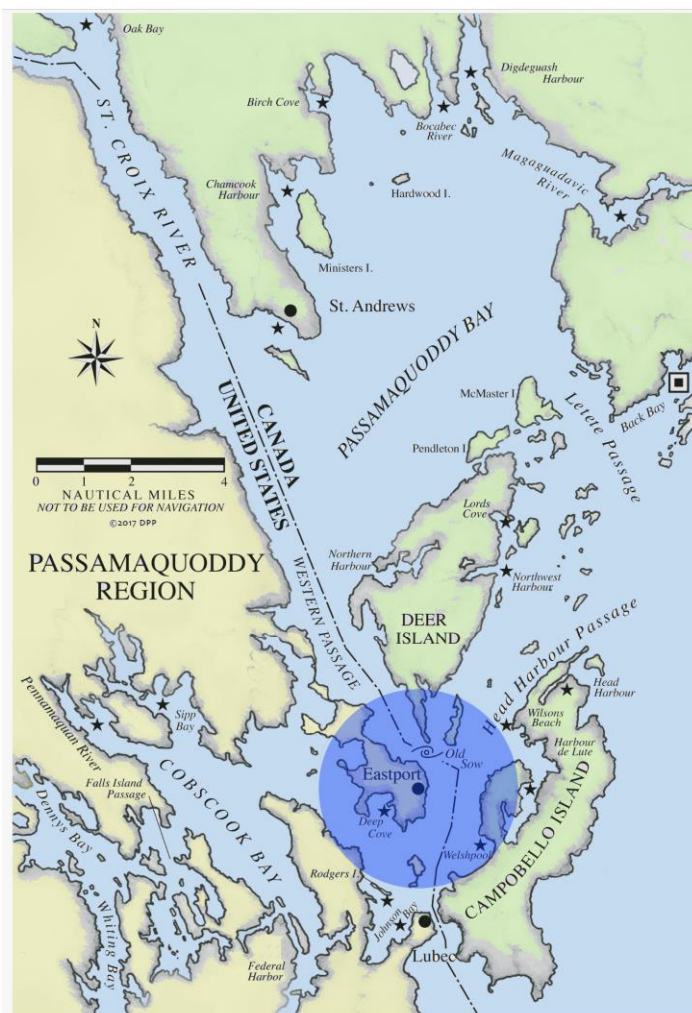
## Quoddy Boat *YANKEE HERO* (1889)

Alex Roel / completed October 2020

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<b>Kit:</b>	BlueJacket Shipcrafters #1022	<b>Length:</b>	14 <sup>7</sup> / <sub>8</sub> " (39' 8")
<b>Scale:</b>	3/8"=1' 1:32	<b>Height:</b>	14" (37' 4")

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## Background

Quoddy boats (name abbreviated from its area of origin, Passamaquoddy Bay, between Maine and New Brunswick) were working boats developed in the region in the late 19<sup>th</sup> century. They ranged from 20 to 40 feet in length, and were cat-rigged with a single gaff-sail. Most were lapstrake planked but in later years carvel planking became favored in all sizes of the boat. They were usually ballasted with iron ore obtained locally. The Quoddy boat was noted for its seaworthiness.

Quoddy boats, having double-ended hulls, are related to the larger off-shore schooners known as “Pinks”

(pinched stern boats) and Quoddy boats were sometimes referred to as “Eastport Pinkies”.

The *YANKEE HERO* was built to carry herring (sardines) from the local weirs (fish traps, or holding pens) to the canneries, and had a large fish hatch amidships along with a standing well right abaft that for the helmsman.



# SAN DIEGO SHIP MODELERS GUILD

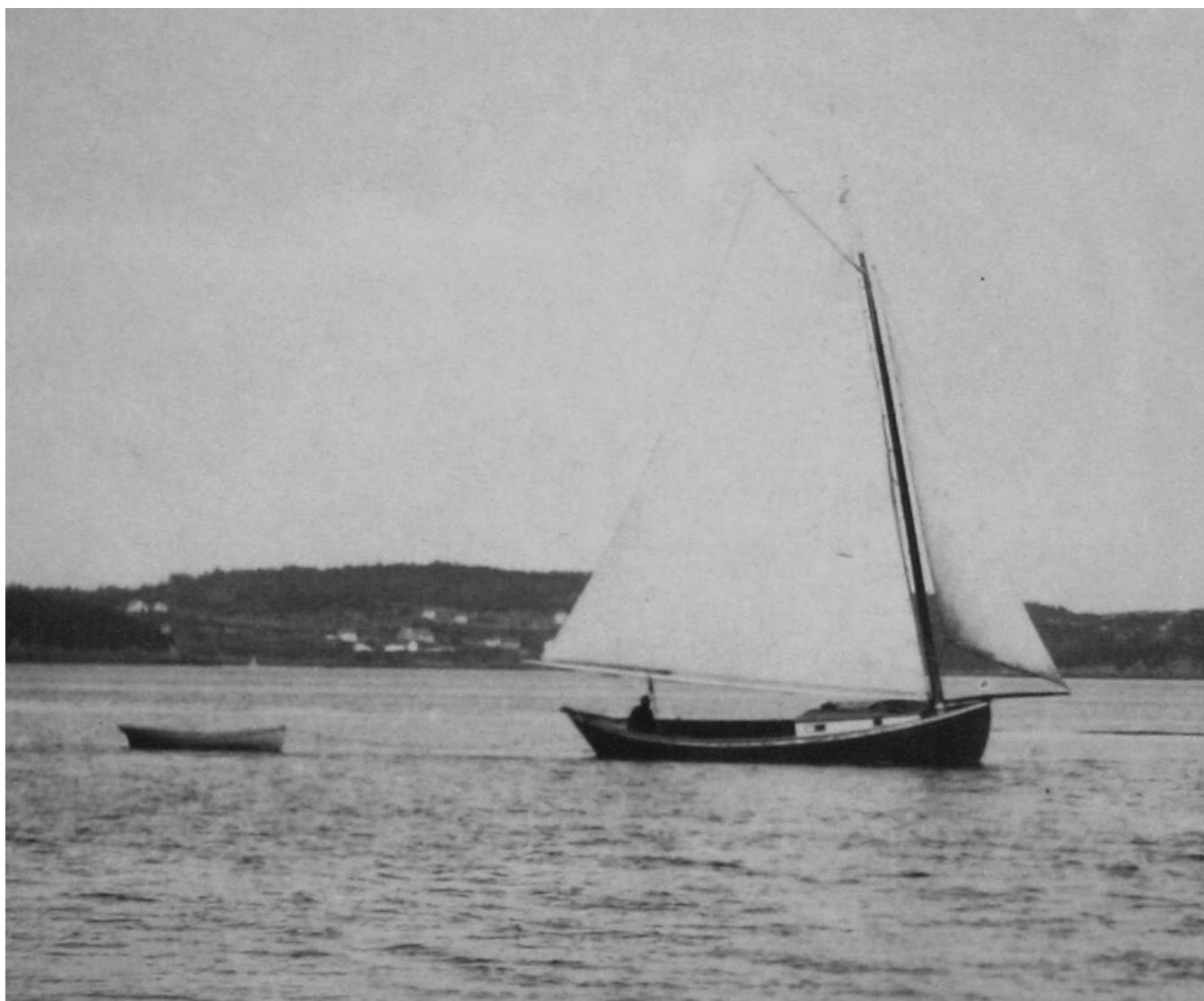
## Quoddy Boat *YANKEE HERO* (1889)

Alex Roel / completed October 2020

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*Sloop-rigged Quoddy boat under sail near Eastport, Maine 1882*





# SAN DIEGO SHIP MODELERS GUILD

## Quoddy Boat *YANKEE HERO* (1889)

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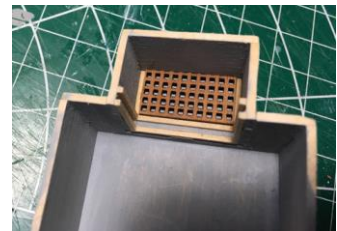
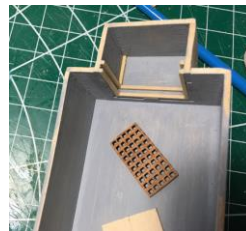
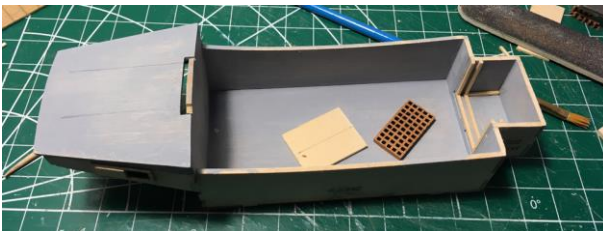
### Build Notes

⚓ Started by building the model's mahogany cradle. Sanded and varnished all pieces prior to gluing the assembly.

⚓ Marked the hull's centerline along the topside and stem and stern. Sanded the bow and stern to approximate final shape using the kit templates.

⚓ Began work on the standing room, hold and cabin. Assembled the laser-cut pieces and then primed them with gray paint. As the assembly was drying, noted a number of things to embellish or fix:

- \* The eaves of the cabin's roof didn't extend out far enough on all four sides: furred out the port, starboard, and aft cabin eaves.
- \* The port and starboard windows the kit provided are Britannia castings: discarded those and cut holes in the cabin bulkheads and trimmed them, including a sliding shutter to match the castings.
- \* Noted from the instructions that the standing well on some of these boats had a vertical board that could be slid into place to separate that space from the herring well. This kit did not have this feature: added the sliding board and rails.
- \* Trimmed down the kit's mahogany grating to fit snugly on the deck of the standing well.





# SAN DIEGO SHIP MODELERS GUILD

## Quoddy Boat *YANKEE HERO* (1889)

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⚓ Ensured the keel's centerline plane was sanded flat with #P220 sandpaper, and then marked 1/16" either side of the centerline on the sternpost, keel and stem.

⚓ Started sanding the solid Basswood hull by taking down the largest proud areas with a Dremel tool. After that excess wood was removed, carved closely along the length of both sides of the centerline plane using a #11 Xacto blade, then using #P220 sandpaper to smooth the Dremel and Xacto marks and fair the surface further.

⚓ Made four hull station templates in order to check the symmetry between port and starboard hull fairing. Continued #P220 sanding until both sides matched. Continually checked the fairing process throughout using thread to reveal areas on the hull that were either shy or proud.

⚓ Deck provided in kit came as one scribed piece: separated it into individual planks, blacking one longitudinal edge of each plank with paint to simulate tar caulking. Laid all deck planks parallel to the boat's centerline.







# SAN DIEGO SHIP MODELERS GUILD

## Quoddy Boat *YANKEE HERO* (1889)

Alex Roel / completed October 2020

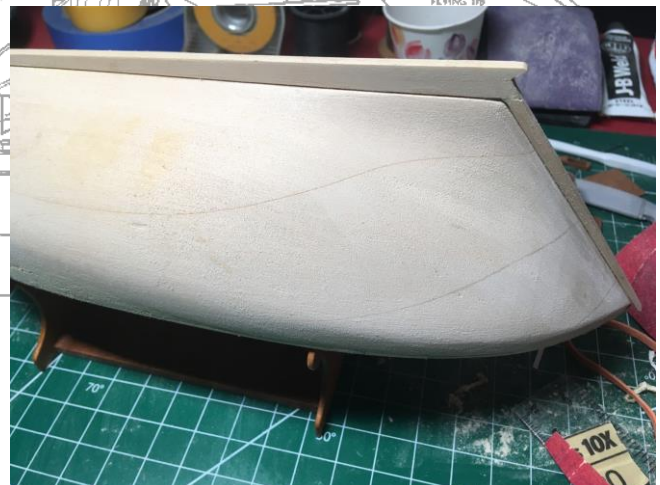
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⚓ Considered the solid hull provided in the kit and wondered whether to plank it over instead of simply painting it. Consulted Nic Damuck of BlueJacket Shipcrafters about planking the model: he suggested lapstraking was the most visually interesting, possibly using card stock for the planks using 1/2" scale width and noting that 20' planks were not uncommon in Quoddy construction. Additional research revealed photos of three historic models of the *YANKEE HERO*, each lapstraked. However, as noted earlier, Quoddy boat construction evolved from lapstrake to carvel planking over the years, and decided to carvel plank the *YANKEE HERO* (while concurrently working on an "Introduction to Planking" build from the Nautical Research Guild that illustrates step-by-step carvel planking methodologies.)

⚓ Created a faux rabbet along the centerline of the hull by gluing a 1/16" wide strip of card stock (which will also be used to plank) along the length of the sternpost, keel, and stem.



⚓ Glued the sternpost, keel and stem on top of the faux rabbet strip which left a gap the thickness of the card stock to act as a rabbet.



# SAN DIEGO SHIP MODELERS GUILD

## Quoddy Boat *YANKEE HERO* (1889)

Alex Roel / completed October 2020

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⚓ Chamfered the leading edge of the stem (excepting the very top portion) and rounded the trailing edges of the sternpost (to match gudgeon fittings.)

⚓ Primed sternpost, keel, and stem.

⚓ Marked the waterline on the hull, followed by marking out six planks aside using chart tape. Stealers and drop planks did not appear to be required on this hull.

⚓ Alternating port and starboard, began carvel planking with the garboard strakes, setting each into the faux rabbet, followed by broad strakes. Card stock became a bit more pliable and forgiving once in contact with glue; planks could be manipulated somewhat as they wicked glue and were applied to the hull. Glue overage on card stock was fairly easy to clean off even after starting to set by using a damp cloth while being careful not to overwork the area.





**Scale:** 3/8"=1' 1:32 **Height:** 14" (37' 4")

 Installed toe rails, port and starboard.





# SAN DIEGO SHIP MODELERS GUILD

## Quoddy Boat *YANKEE HERO* (1889)

Alex Roel / completed October 2020

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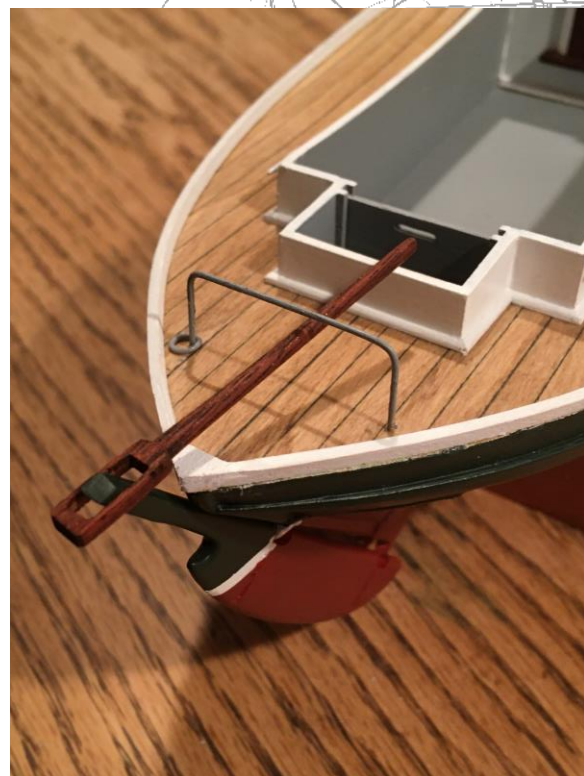
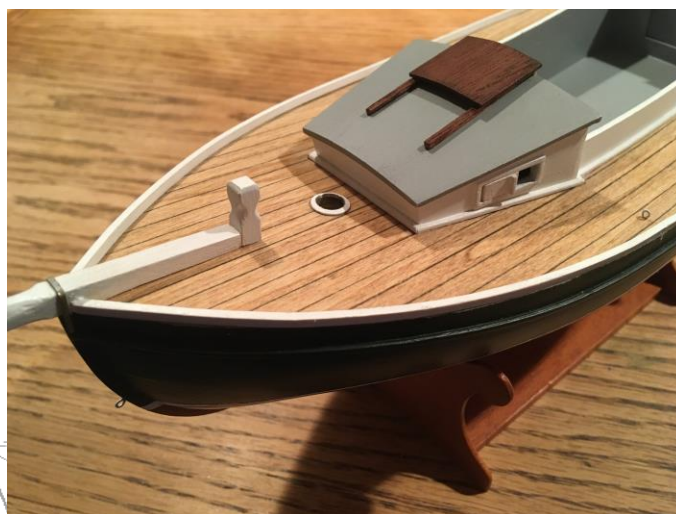
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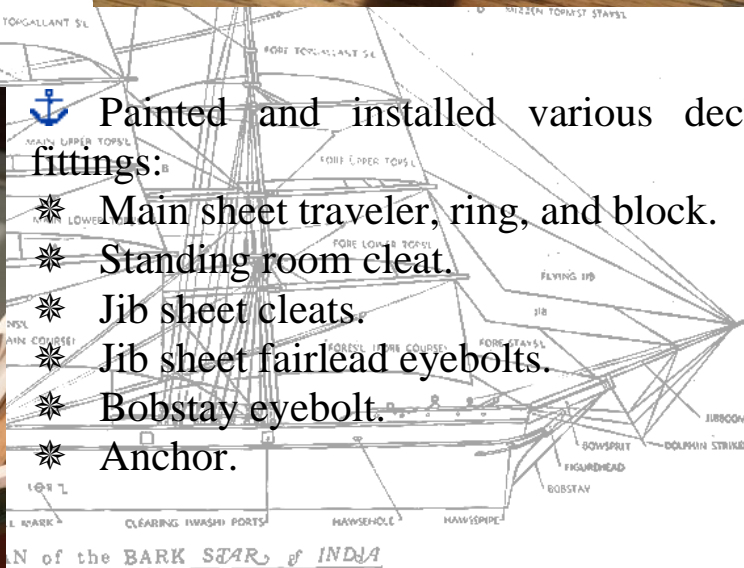
Installed cabin assembly:

- \* Cabin sliding doors, step and trim.
- \* Cabin stopwater and rails.
- \* Cabin sliding top.
- \* Glued cabin assembly to deck opening.
- \* Trimmed cabin assembly with molding.



Painted and installed various deck fittings:

- \* Main sheet traveler, ring, and block.
- \* Standing room cleat.
- \* Jib sheet cleats.
- \* Jib sheet fairlead eyebolts.
- \* Bobstay eyebolt.
- \* Anchor.





# SAN DIEGO SHIP MODELERS GUILD

## Quoddy Boat *YANKEE HERO* (1889)

Alex Roel / completed October 2020

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Built an alternative display stand based upon one seen for a model of an Eastport Pinky on the Internet (new stand to left of original.)



Fashioned and equipped spars:

- \* Main mast, bolster, boom rest, mast hoops, eyebolts, blocks.
- \* Boom, yoke, eyebolts, blocks.
- \* Gaff, yoke, eyebolts, blocks.



Performed final “touch ups”, cleaned up various nicks and blemishes prior to commencing rigging.



Decided against using the kit-supplied white running rigging thread and substituted a tan thread of the same weight.





# SAN DIEGO SHIP MODELERS GUILD

## Quoddy Boat *YANKEE HERO* (1889)

Alex Roel / completed October 2020

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Ran standing rigging:

- \* Stepped main mast.
- \* Strung jib hanks.



Ran running rigging:

- \* Rigged gaff.
- \* Rigged boom.



Added boat name and home port (dry transfer) to hull.





# SAN DIEGO SHIP MODELERS GUILD

## Quoddy Boat *YANKEE HERO* (1889)

Alex Roel / completed October 2020

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### Completed Build (*October 17, 2020*)





# SAN DIEGO SHIP MODELERS GUILD

## Quoddy Boat *YANKEE HERO* (1889)

Alex Roel / completed October 2020

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# SAN DIEGO SHIP MODELERS GUILD

## Quoddy Boat *YANKEE HERO* (1889)

Alex Roel / completed October 2020

















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## Materials Used

### Model

- 
-  Basswood (hull, hold, well, keel, rudder, deck, furniture)
  -  Mahogany (tiller, grating, companionway top, cabin door)
  -  Birch (mast, gaff, boom)
  -  Card Stock (planking)
  -  Brass (traveler, pins, eyebolts, mast hoops, stand rods)
  -  Britannia metal (blocks, cleats, pintles, gudgeons, anchor)
  -  Minwax #210B "Golden Oak" stain (deck)
  -  Minwax #225 "Red Mahogany" stain (cabin, tiller, spars)
  -  ModelExpo #MS4831 "White" acrylic (cabin, spars)
  -  ModelExpo #MS482 "Deck Medium Gray" acrylic (cabin)
  -  Model Master #2111 "Italian Dark Brown" enamel (blocks, hoops)
  -  Model Master #2781 "Grey Primer" enamel (traveler, gammon)
  -  Testors #1149 "Flat Black" enamel (rigging)
  -  Testors #1258 "Flat White" spray enamel (hull, rudder)
  -  Tamiya #TS-33 "Dull Red" spray enamel (hull, rudder)
  -  Tamiya #AS-13 "Green (USAF)" spray enamel (hull, rudder)

### Display Case

-  Cedar (base)
-  Plexiglass (cover)
-  Brass (screws)





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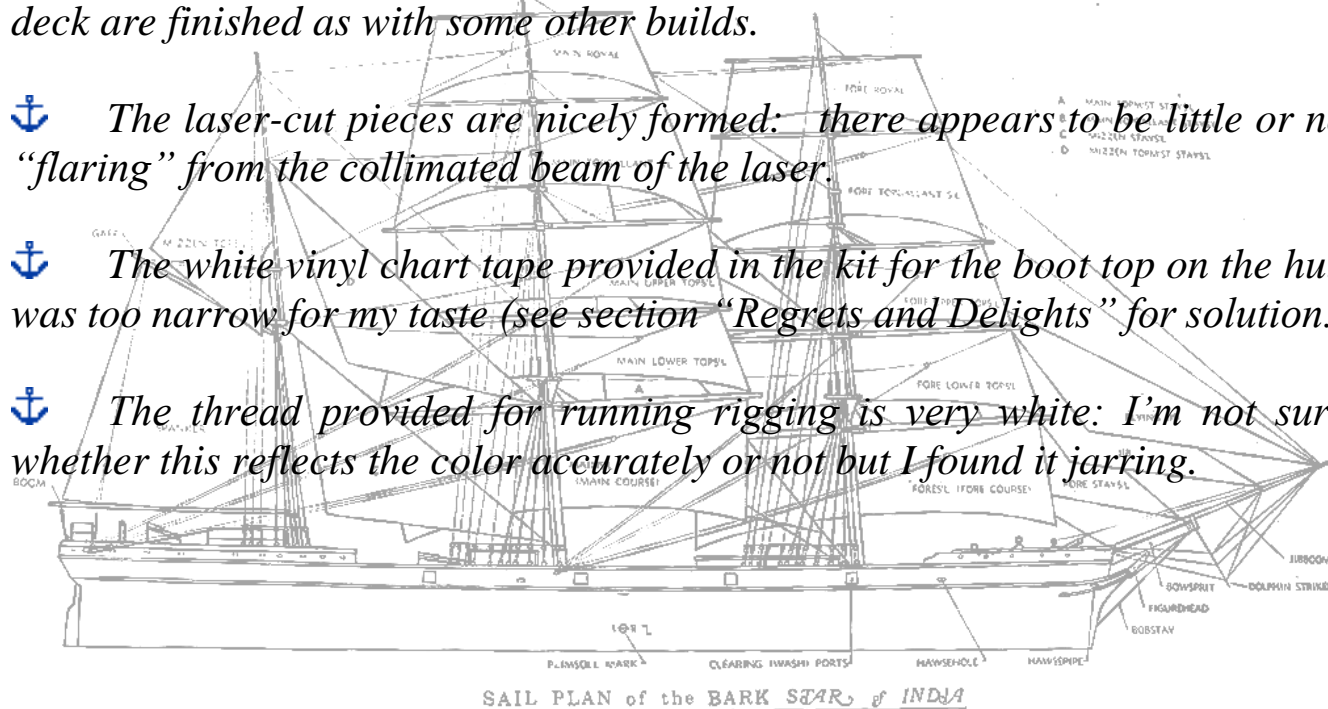
### Kit Notes

⚓ *One thing that appears to be somewhat unique about this kit is that you can build the deck furniture and fair the hull simultaneously. This is because the deck furniture on this boat are all encompassed in the cabin / hold / standing room assembly which is later inserted into the deck in its entirety. As such, you can build this assembly ahead of time rather than waiting until the hull and deck are finished as with some other builds.*

⚓ *The laser-cut pieces are nicely formed: there appears to be little or no "flaring" from the collimated beam of the laser.*

⚓ *The white vinyl chart tape provided in the kit for the boot top on the hull was too narrow for my taste (see section "Regrets and Delights" for solution.)*

⚓ *The thread provided for running rigging is very white: I'm not sure whether this reflects the color accurately or not but I found it jarring.*





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### Lessons Learned

 I've found the "Build Log" process to be useful in eliminating potential problems during the build. I use the Build Log both to record exactly what I did, step-by-step, but almost more importantly, listing the steps that I anticipate are next. This process of thinking out the next logical step(s) has more than once prevented me from proceeding down a "wrong alley" from which I'd need to backtrack.

 Working with card stock as planking has different challenges than using Basswood. Card stock bends more easily, but is less forgiving if it is accidentally creased or dented than is Basswood. Amending the finish of card stock really relies on the number of coats of primer applied: hiding card stock blemishes requires more coats of primer.

 **Lesson not yet learned:** how to retain visible planking seams on hull after repeated sanding / painting (see section "Regrets and Delights".)

 This build taught me to be more discriminating on matching paint types with material: metal parts (lightly scuffed) seem more suited to enamel based painting while wooden parts seem to match better with acrylics for the most part to preserve the "feel" of the wood.

 Minwax brand stains seem to be very useful on decking when it comes to glue overages: a Minwax stained deck appears to have a "waxy" finish that makes cleaning up white glue very easy with a damp paintbrush and leaves no glue shadow.



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### Regrets and Delights

 *Delight:* Shortly before commencing this build I had started working on the Nautical Research Guild's "Introduction to Planking" half-hull carvel planking kit as part of the SDSMG's Community Build group. This allowed me to learn about and practice carvel planking in detail before reaching that step on the *YANKEE HERO*.

 *Regret:* From a historical standpoint I slightly regret my choice of carvel versus lapstrake planking for the *YANKEE HERO* as seemingly she was lapstraked. However, as noted immediately above, the timing was right to do a proper carvel planking, and personally and artistically I prefer the clean look of smooth planking with the *YANKEE HERO*'s green / burnt sienna / white color scheme.

 *Regret:* Priming the hull after planking revealed some problem areas that required amending. This led to a series of patching / priming / sanding iterations that eventually led to the near obliteration of the seams between the strakes. This outcome nearly matches that of simply sanding and painting the original solid wood hull without planking.

 *Delight:* I chose to use the boot top painting method recently published in the Spring 2020 issue of the National Research Journal (Vol. 65, No. 1, pages 83-88) by Kurt Van Dahm. Combined with the use of the "Delicate Surface" version of Frog Tape the result was very pleasing.

 *Delight:* Achieved my goal of using no CA glue at all on this build.





# Plaque

**YANKEE HERO**

**EASTPORT, MAINE - 1887 - 3/8"=1' - 132'**

LEGEND:

- A. MAIN TOPMIST STAY
- B. MAIN TOPGALLANT STAY
- C. MIZZEN STAY
- D. MIZZEN TOPMIST STAY

Labels on the drawing include: BOOM, SPARKER, MAIN TOPGALLANT STAY, FORE TOPGALLANT STAY, MAIN UPPER TOP, FORE UPPER TOP, MAIN LOWER TOP, FORE LOWER TOP, MAINSAIL (MAIN COURSE), FORESAIL (FORE COURSE), FORE STAY, FLYING JIB, JIB, JIB BOOM, BOWSPRIT, FIGUREHEAD, BOBSTAY, JIBBOOM, BOWSPRIT, FIGUREHEAD, BOBSTAY, MAINMIST, FOREMIST, MAINMIST STAY, FOREMIST STAY, MAINMIST UPPER TOP, FOREMIST UPPER TOP, MAINMIST LOWER TOP, FOREMIST LOWER TOP, MAINMIST (MAIN COURSE), FOREMIST (FORE COURSE), FOREMIST STAY, JIB, JIB BOOM, BOWSPRIT, FIGUREHEAD, BOBSTAY, MAINMIST, FOREMIST, MAINMIST STAY, FOREMIST STAY, MAINMIST UPPER TOP, FOREMIST UPPER TOP, MAINMIST LOWER TOP, FOREMIST LOWER TOP, MAINMIST (MAIN COURSE), FOREMIST (FORE COURSE), FOREMIST STAY, JIB, JIB BOOM, BOWSPRIT, FIGUREHEAD, BOBSTAY.

Scale: 3/8"=1' - 132'

SAIL PLAN of the BARK *STAR of INDIA*