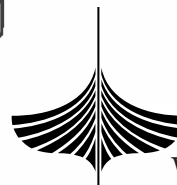
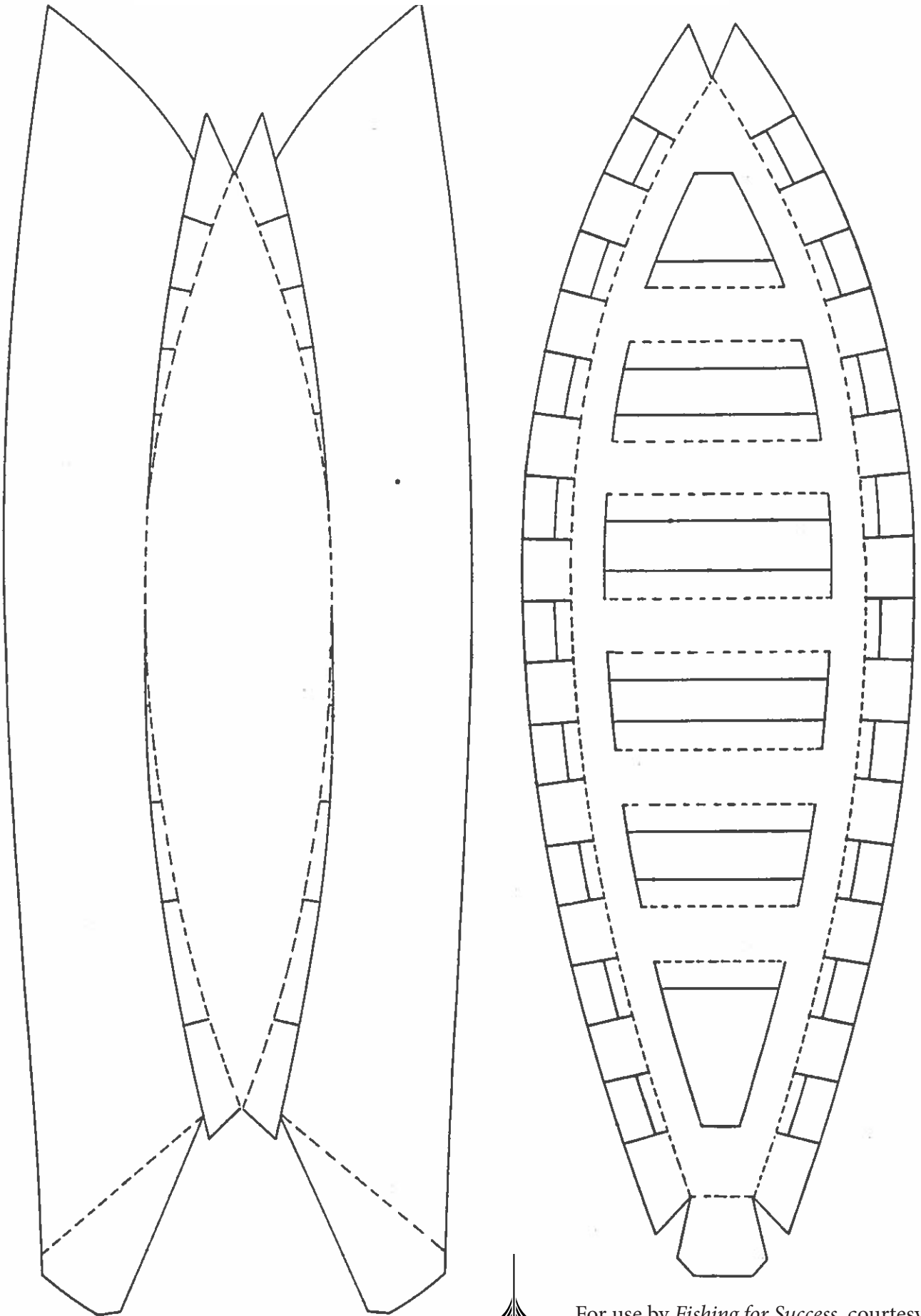


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Solid lines are to be cut. Dotted lines are to be folded.



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# Building the Cardboard Dory

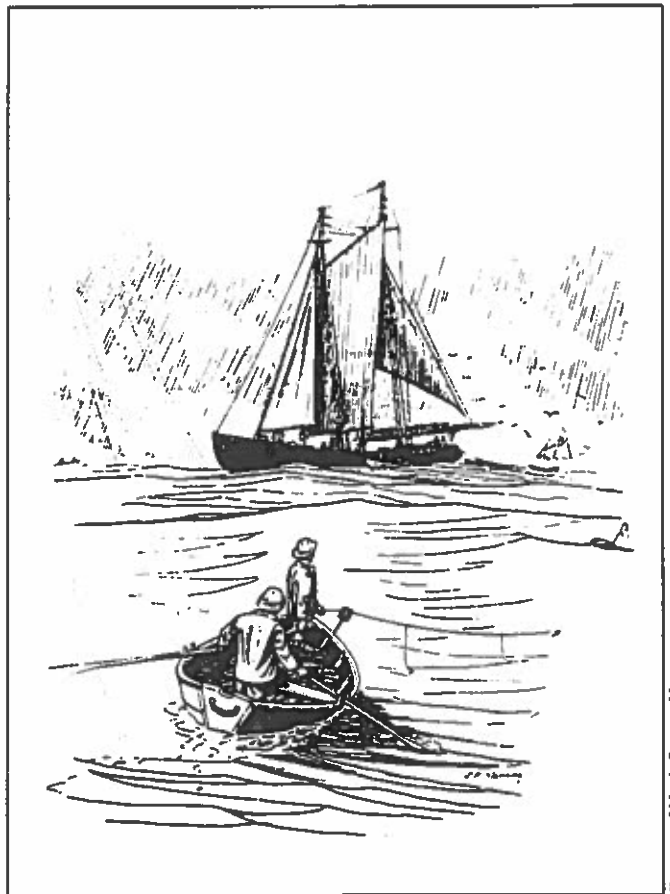
Text, drawings, and model by S.F. Manning

Taped cardboard provides a beautiful means of building small boat models. The Banks dory offered here has been scaled from John Gardner's drawings for a two-man dory that was produced by Hiram Lowell & Sons for the United States Coast Guard in 1944. Try building it as shown—the whole project takes about 2½ hours, and the resulting boat can go into the bathtub without any paint at all. If you desire long-term waterproofing, dip the completed model into a can of paint or varnish and bail out the excess fluid with a watercolor brush.

Construction is quite simple. Cuts are made along solid lines. Use a sharp-pointed X-ACTO knife, and be certain that all cuts are dead accurate. Fold the cardboard along the broken lines. Scoring each broken line with a smooth, sharp stylus (such as an awl or ice pick) before folding will assure crisp and true work.

The skill here is in the taping—if you want the tape to imitate real plank. Fortunately, the skill is easily developed. And, should you make a mistake, whole planks of tape can be pulled off and re-done. Just double the tape back sharply on itself and pull gently. It'll come off. If some cardboard comes up in the process, the next tape strake will cover the imperfection. Tape can be edgeseet considerably, but a few wrinkles will appear. Small wrinkles can be burnished out with your thumbnail. Larger wrinkles should be slit at their apexes and then smoothed down.

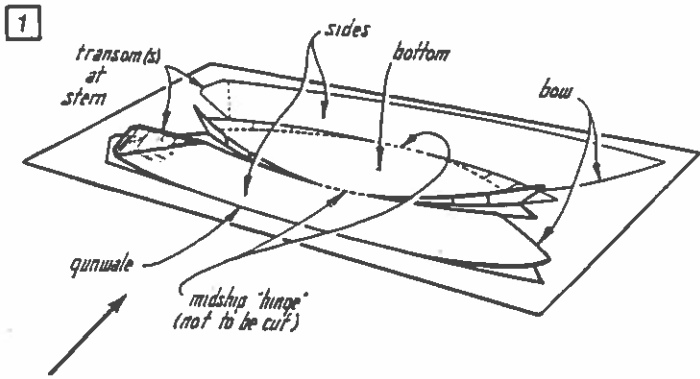
This construction is most forgiving. If you make a wrong cut (such as cutting rather than folding along a broken line), simply put a piece of tape on the backside of the "wrong cut" and continue with the work at hand. The repair swatch will be removed in the course of whole-hull taping. Follow the numbered instructions on the following pages, and your dory will go together in fine style.



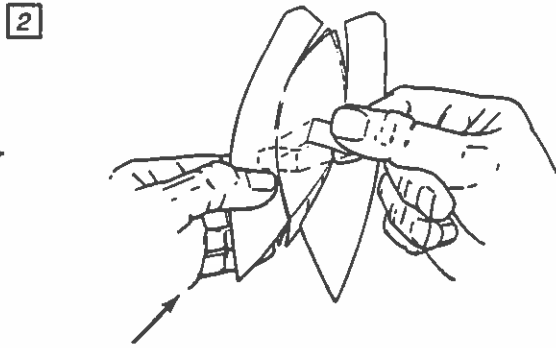
*Dorymen tending trawl on the Grand Banks.*

#### Helpful tools and materials:

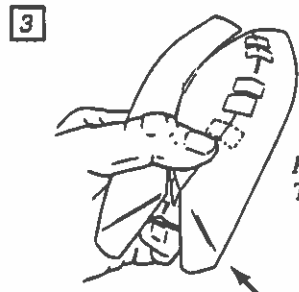
- Sharp-pointed X-ACTO knife
- Lollipop stick with smooth, rounded ends
- Roll of ¾" masking tape
- Pair of sharp scissors
- Awl or ice pick



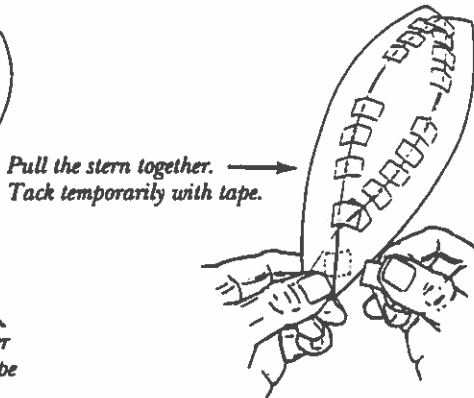
Fold the tabs along the bottom upward.  
 Fold the sides upward along their midship "hinge."  
 Fold the transoms inward.



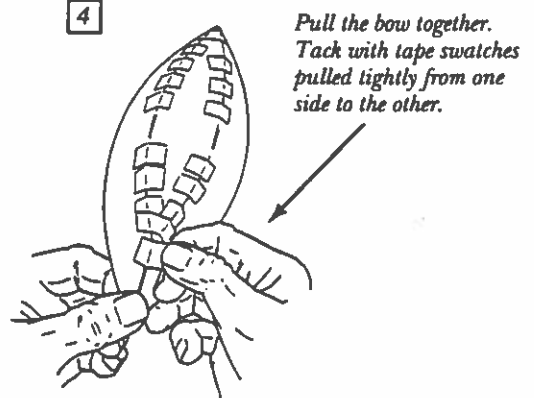
Draw together sides and bottom, starting from the middle of the boat and working toward the ends.



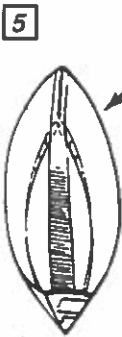
Tack sides and bottom together with temporary swatches of tape on the outside of the hull.



Pull the stern together.  
 Tack temporarily with tape.



Pull the bow together.  
 Tack with tape swatches pulled tightly from one side to the other.



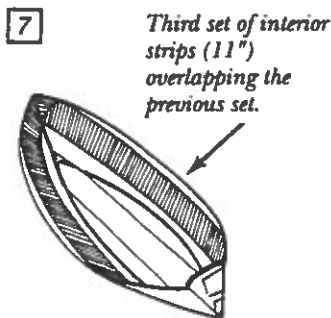
A 12" strip of tape is run down the inside of the hull and up to close the bow and stern. Crease this into all corners.

Major wrinkles are slit, with their flaps smoothed down.

Minor wrinkles can be smoothed with your thumbnail.



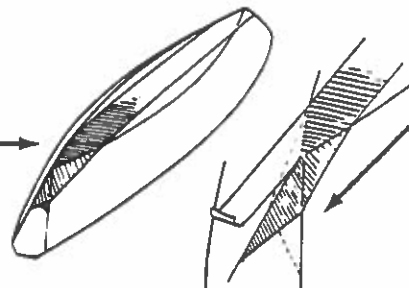
Overlap this center strip of tape with an 11" strip on each side. Let the ends of these strips climb the sides of the boat and hook across the bow and stern.



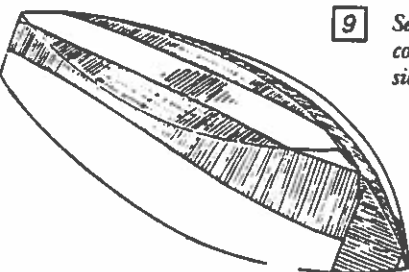
Third set of interior strips (11") overlapping the previous set.

Pull off all temporary swatches on the outside of the hull.

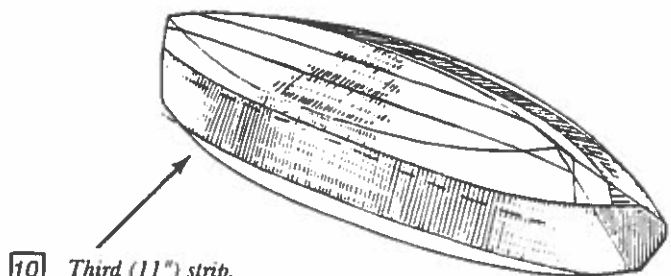
Run a 9" strip down the center of the bottom.



Ends of the strip are slit where needed to hook around the bow and stern in natural lay.

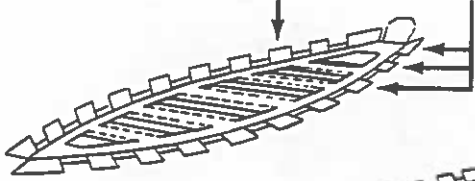


Second exterior strip (11") covers the junction of sides and bottom.

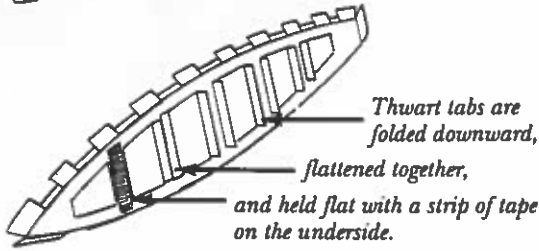


Third (11") strip.

11 Thwart-deck cut-out—  
side tabs are folded upward.

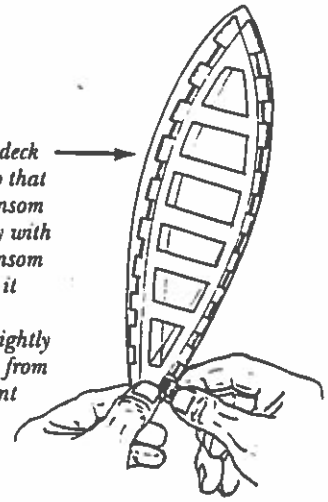


Tops of these tabs will align with the gunwale.

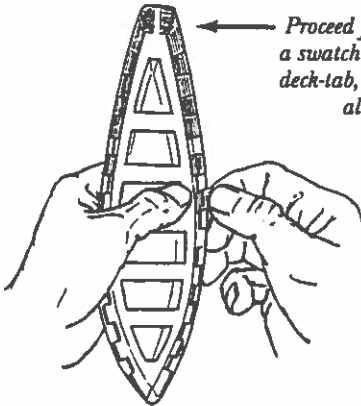


Thwart tabs are folded downward, flattened together, and held flat with a strip of tape on the underside.

12 Place the thwart-deck inside the boat so that the top of the transom tab aligns exactly with the top of the transom of the hull. Tack it there with tape swatches pulled tightly over the gunwale from the closest adjacent tabs.

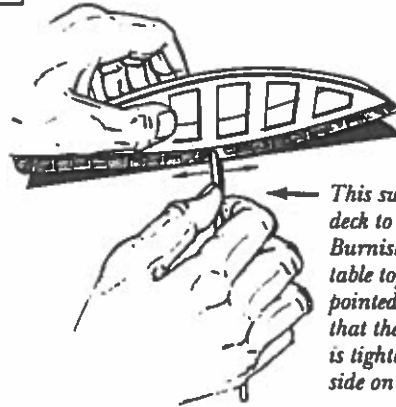


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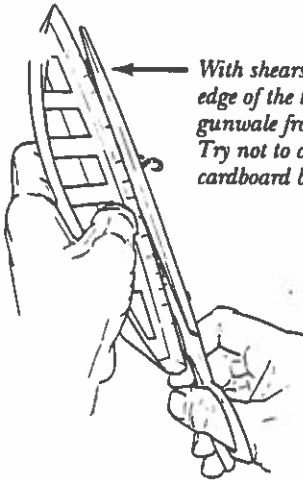
Proceed forward from the transom, sticking a swatch of tape to the inside face of each deck-tab, pulling it (with the tape) into tight alignment with the top of the boat's gunwale. Smooth down each swatch on the outside. Work tab by tab, alternate sides, until deck and hull are closed to the bow. Then swatch-tape the open spaces between the tabs.

14



This swatch-taping of thwart-deck to gunwale is permanent. Burnish it firmly against a table top with a smooth, pointed instrument to be sure that the tape between the tabs is tightly stuck to the boat's side on the interior.

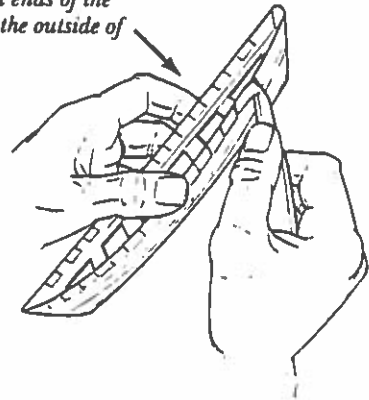
15



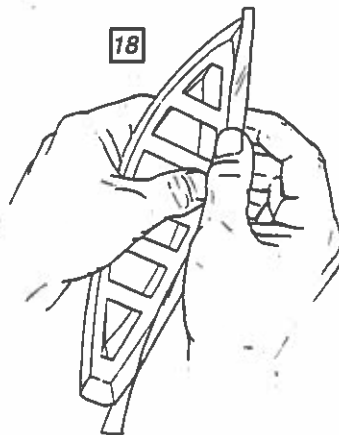
With shears or scissors, trim off the folded edge of the tape swatches where they cross the gunwale from the inside to outside of the boat. Try not to cut the curved edge of the cardboard beneath.

16

Remove the cut ends of the swatches from the outside of the boat.

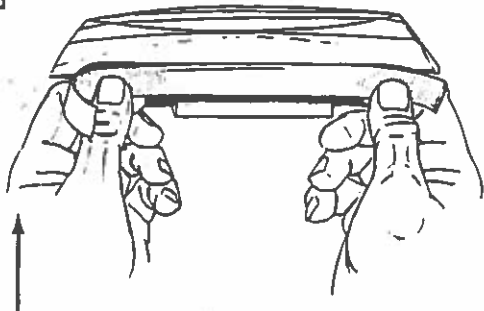


18



Bend this strip over the gunwale. Trim where necessary. Burnish-out any wrinkles occurring on the inside.

17



Add a third (11") strip of tape to the outside of the boat, approximating the uppermost plank of the sides.

