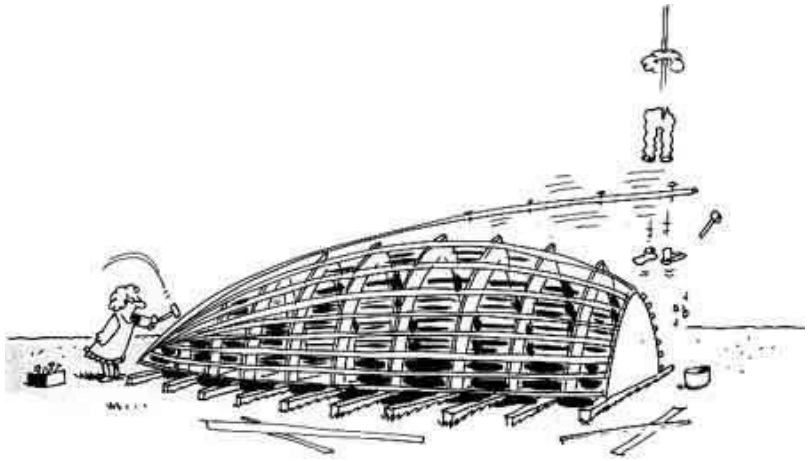
How to build an ocean cruiser from your own forest ?



<u>Here is the short version:</u>

1. Cut down the trees you need
2. Split them to hundreds of long strips
3. Glue them side by side on frames shaped like a boat
4. Cover everything with glass fibre and epoxy

Done !

by Johan Kjellander 2014

If you want a longer version, go on reading !

If you want the full version check http://www.toan.se

First of all, you need a boat house.

I used my old Volvo tractor “Bettan” to pre-pare the area.

One rock was too big.

A good fire took care of that!

I added some gravel…

…and prepared for concreting.

Good friends came to help me and the truck arrived with concrete.

We used a 7 meter long vibrator to fair the surface.

Now it was time for woodwork.

I cut the trees and my friend Nisse helped me with transportation…

…to his fathers sawmill.

First cuts with the big circular saw…

…and then adjustment in the band saw.

I could now start assembling the truss to carry the walls and roof of the boat house.

Frames erected, time for roofing party!

Sheet metal on the roof and walls of wood.

Timber cut early -98

Ground work with Bettan summer -98

Concreting in August -99

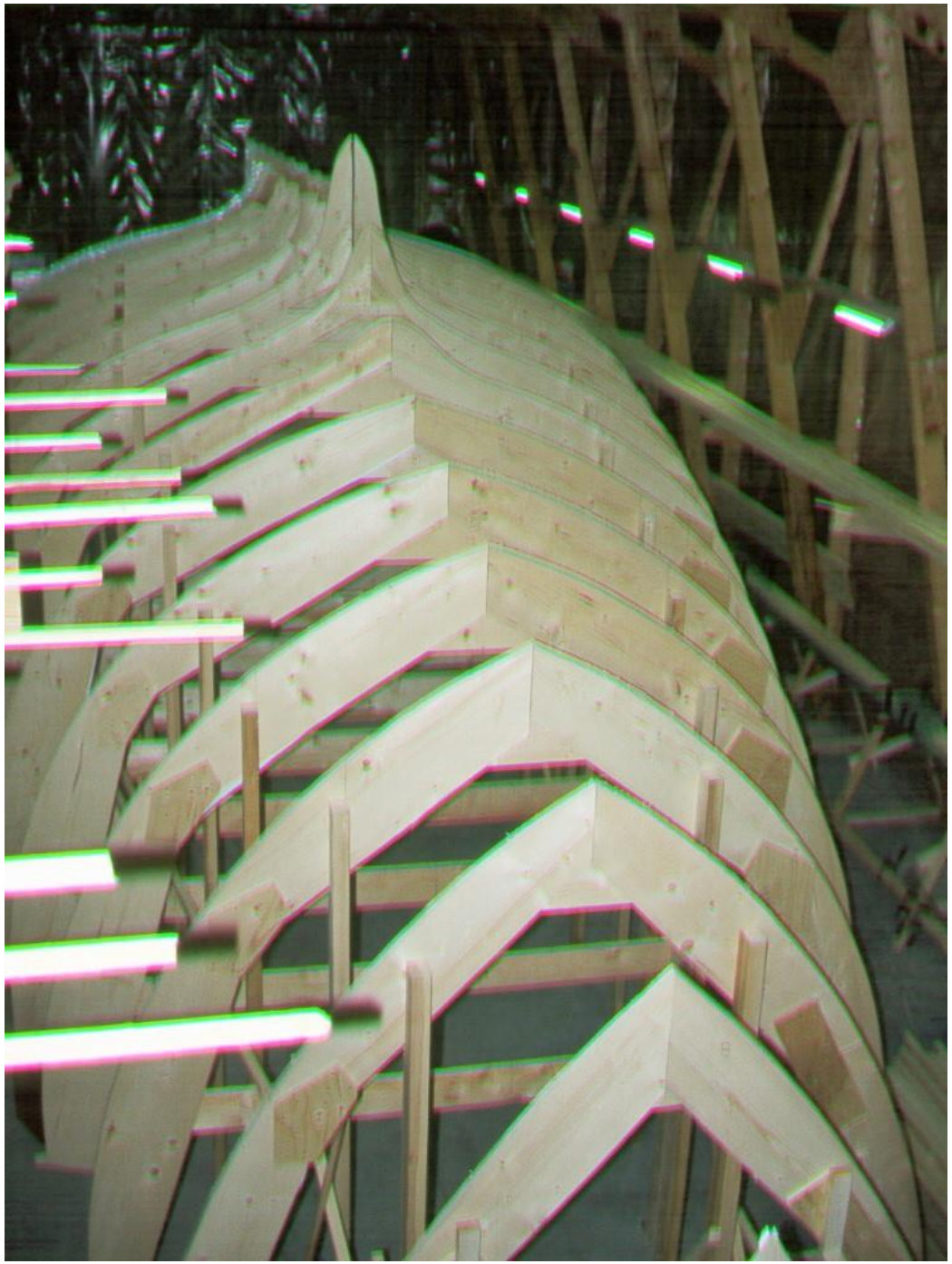
Boat house finished October -99.

Spring 2000.

Time to start building a boat !

You need a lot of frames.

Put the frames upside down on the floor.



Then you add the stem and horn timber.

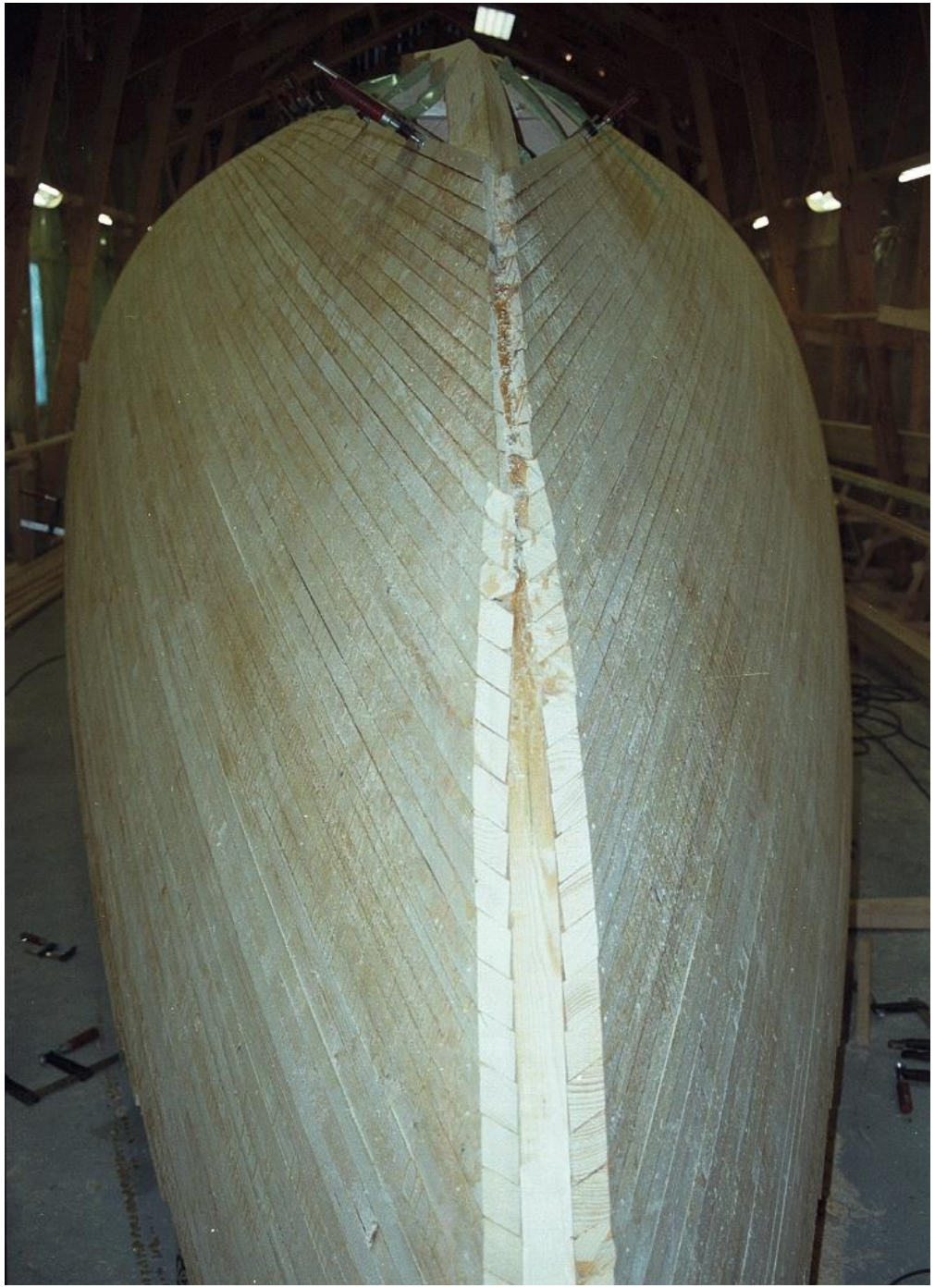
You also need a sheer plank.

Then the first strips can be fastened.

Add more strips !

And more strips…

..until the hull is covered.



During the winter you can finish the keel plank.

Planing big pieces of wood.

And shaping them
to fit the hull.

Many strange wood pieces make up the keel plank.

Here is the first piece in position.

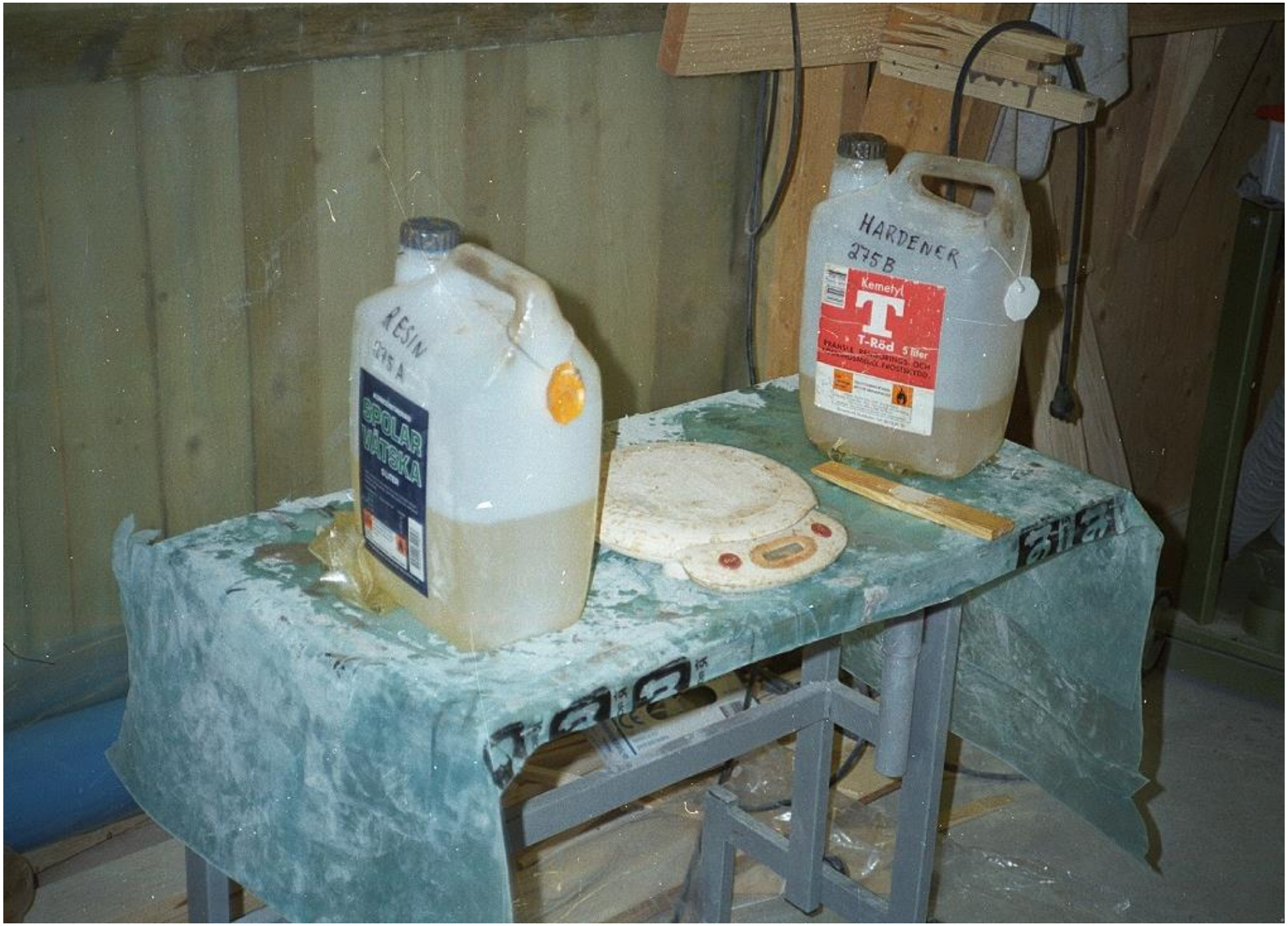
The big wedge.

All pieces in place and sanded to the right shape.

Still some strips missing.

Last strips in place.

Epoxy.



A first coat.

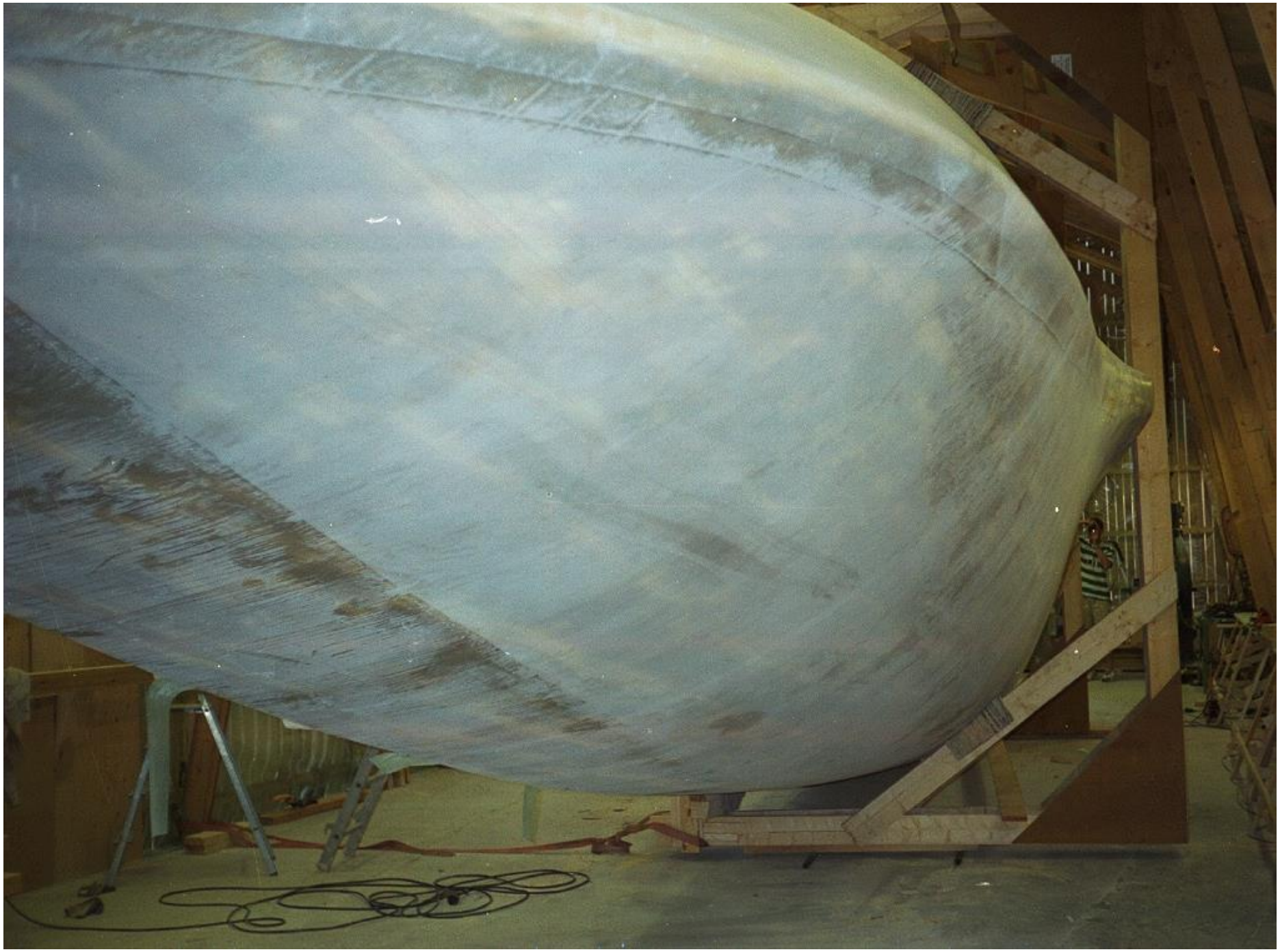
Glass fibre.

Outside of hull covered with four layers of glass and epoxy.

Time to turn the hull the right way.

Two tons of weight.

Half way around.



A sideways move before completing the turn.

Bird of Passsage finally on an even keel.

Turning took two days !

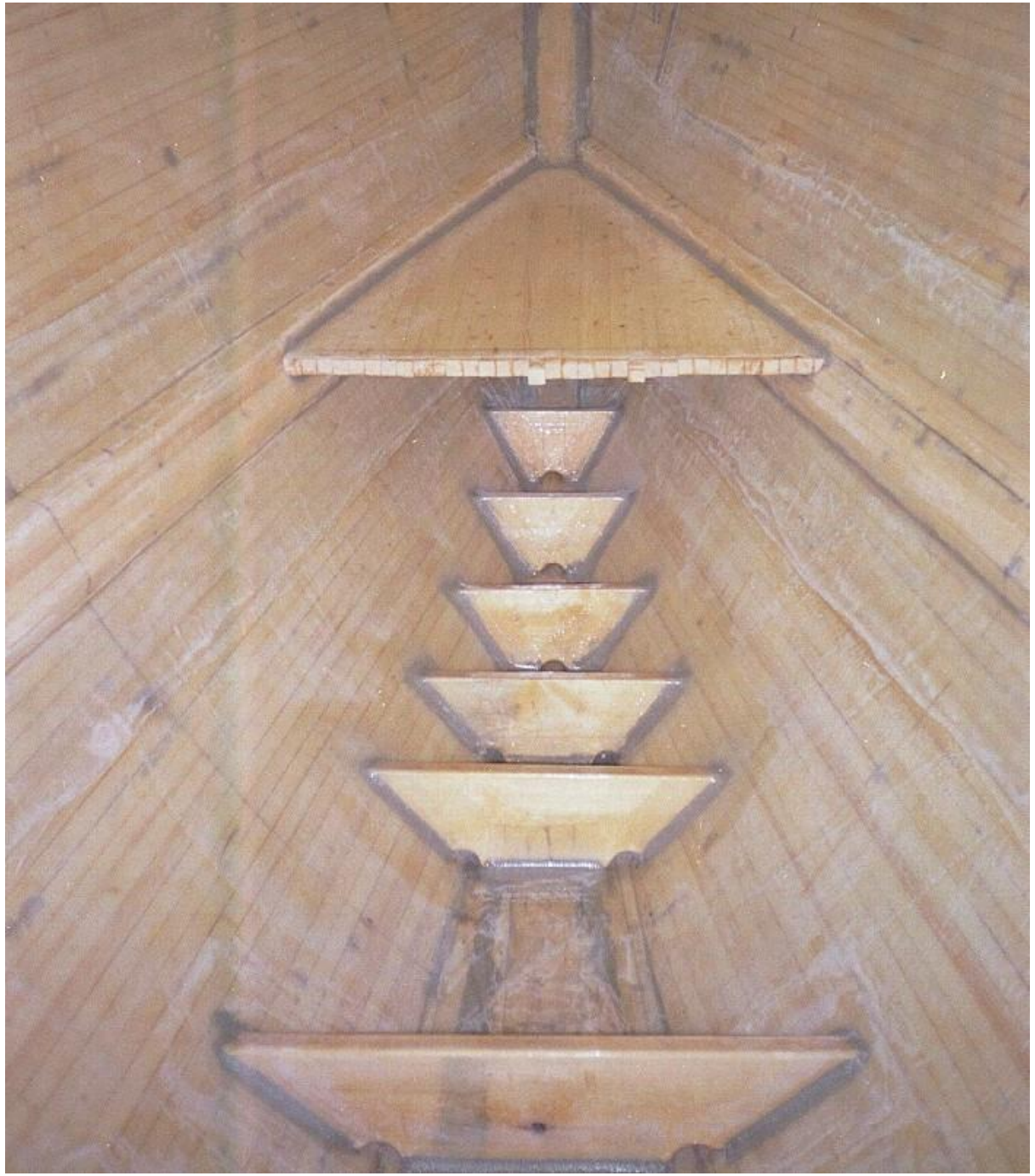
Remove the frames, add glass fibre and epoxy also on the inside.

Four layers everywhere

Stringers and floors is a lot of job.

One floor every foot along the keel.

Bottom of future anchor box.



I made the stern in my garage during the winter.

First a big rounded piece…

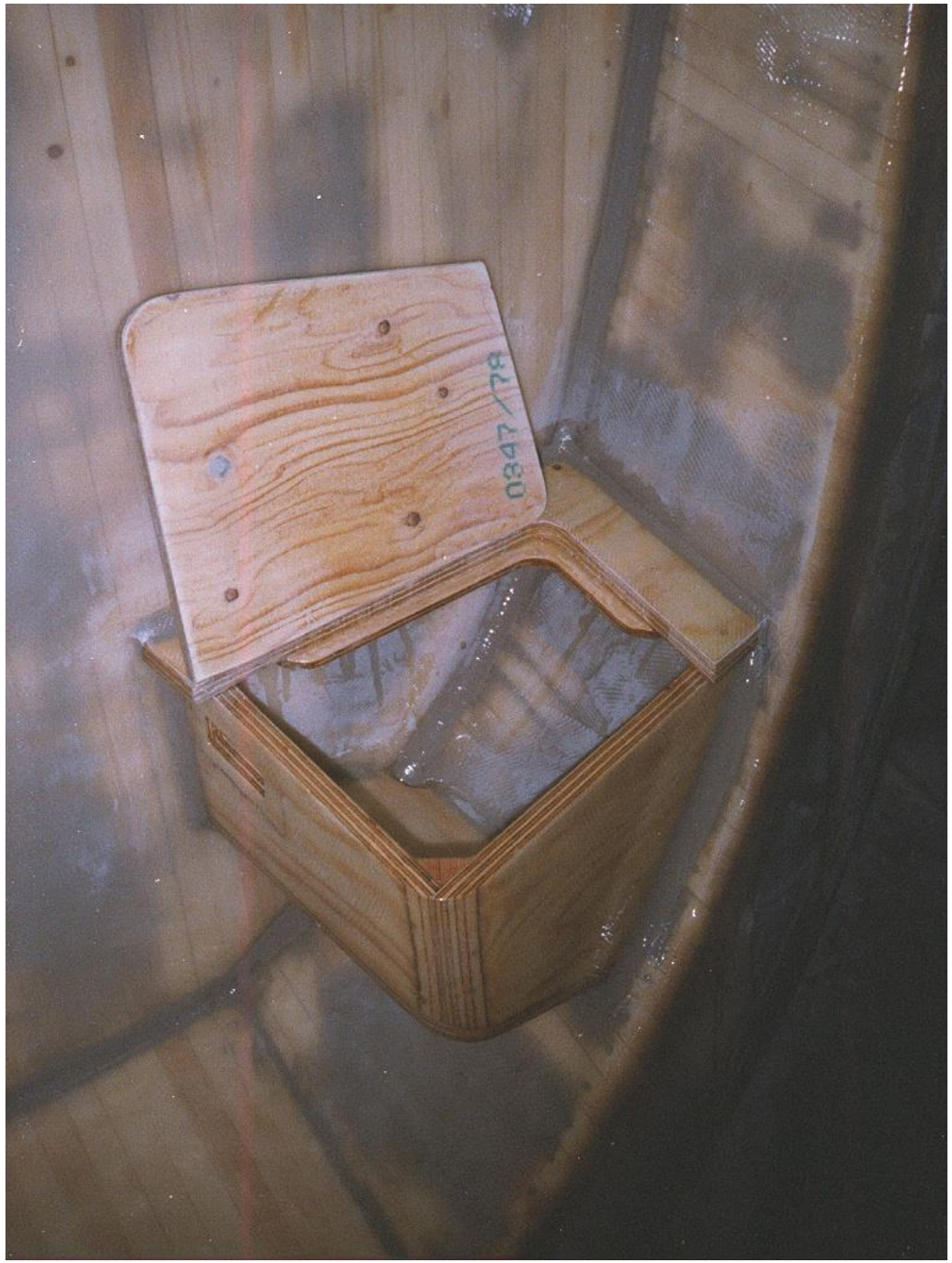
…and then another one differently rounded.

Then I joined the two, also with strips.

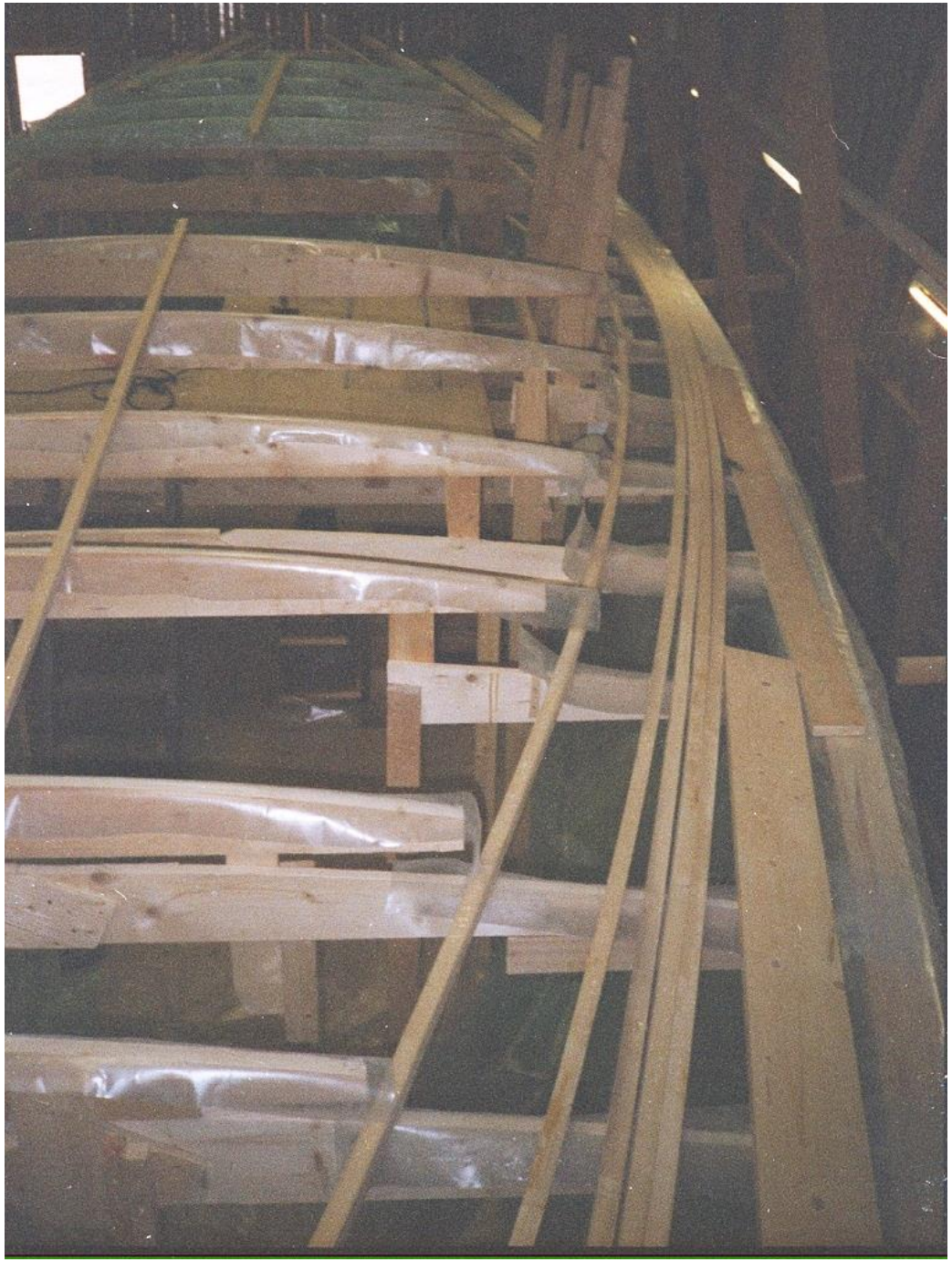
Glass fibre and expoxy on both sides and then I mounted it on the hull.

Three steps on one side…

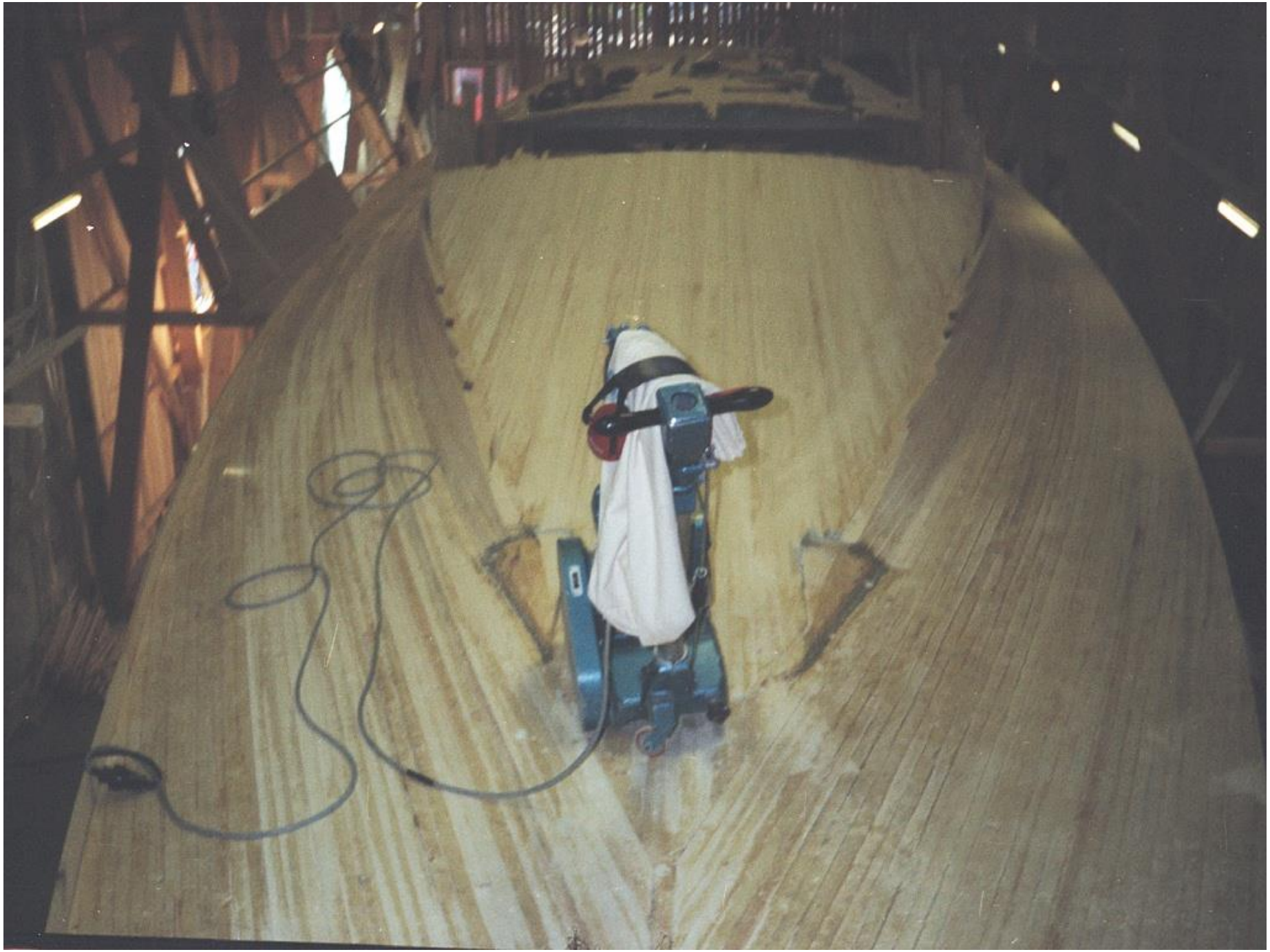
…and a box for the shower on the other side.



Time to start with the deck.



Raised fore deck.



Bridge deck.

Outside of deck covered with glass fibre and epoxy.

Time for turning !

Deck upside down. Now the frames can be removed and…

…also this side covered with glass fibre and epoxy.

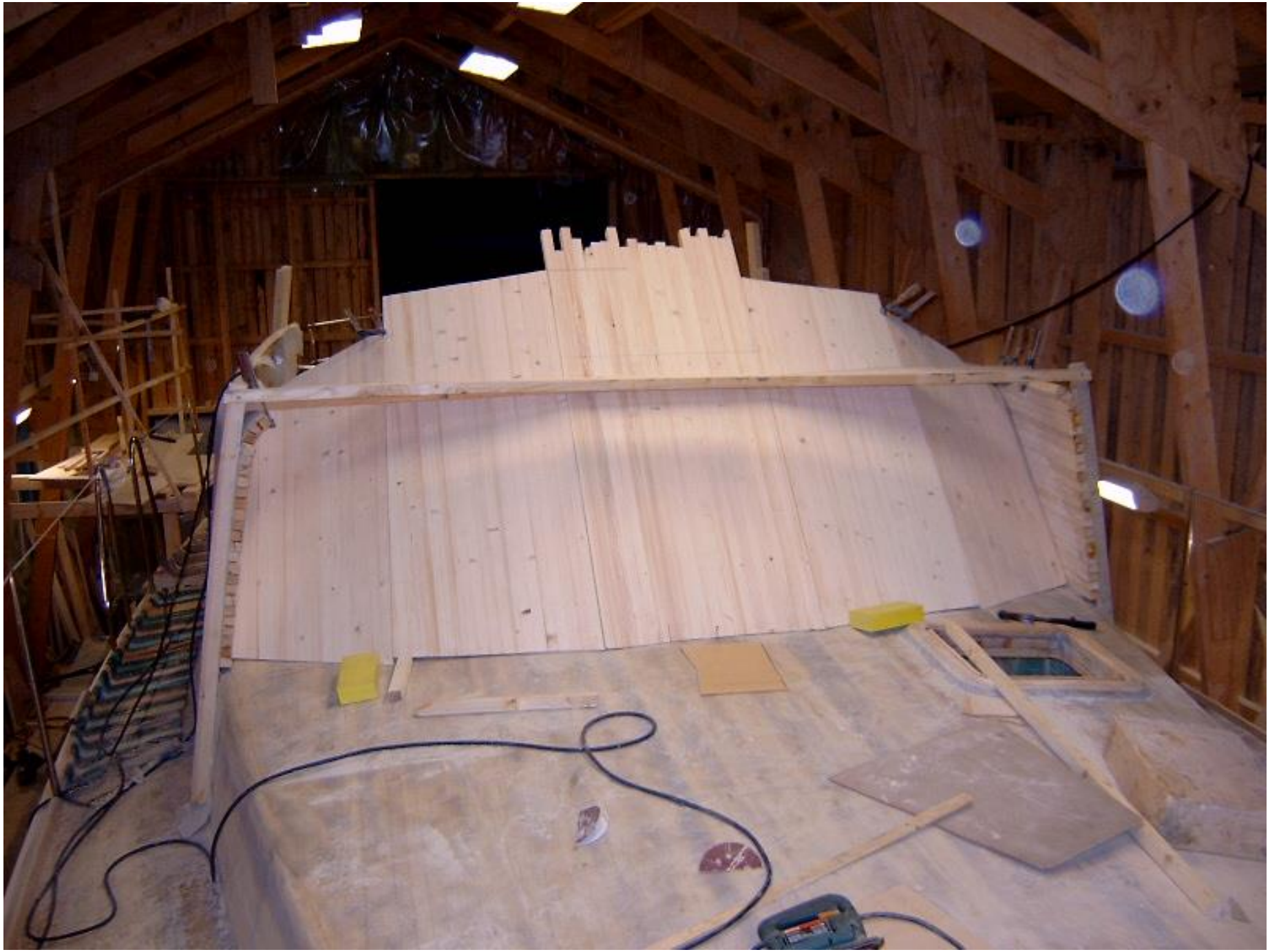
Forward anchor box

Two anchor boxes on the aft deck.

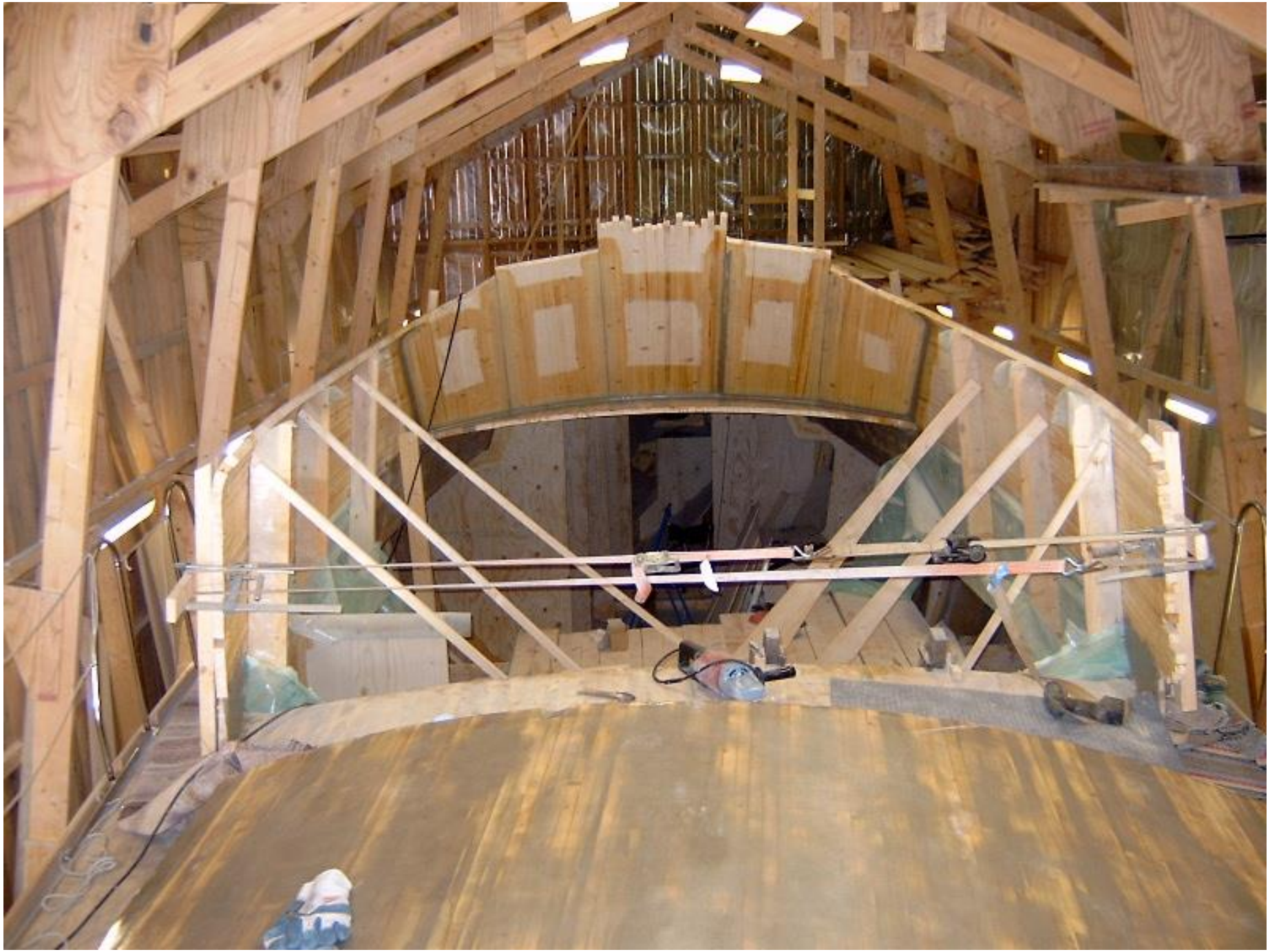
Skylight on the bridge deck.

Time to start with the deck saloon.

Forward part.



Side walls.



Roof.

Ribs for maximum strength.

Rear wall and roof.

Holes cut for windows.

Steering console.

Hatch for shore connections.

Plywood interior.

Some spaces are difficult tor reach !

Galley.

Forward cabin.

Forward collision bulkhead with watertight hatch.

Aft cabin.

Aft cabin storage.

Opening to machine room.

Toilet and shower to the left.

Pulpit.

Pushpit.

Welding together the parts for the keel box.

One side done.

Soon finished.

Lifting the keel box into the hull.

Almost there.

Boat lifted one meter.

Deadwood.

Retractable part of keel.

To be filled with lead.

Dig a hole in the ground.

Put the empty keel in the hole.

Melt lead.

Pour it into the keel.

Plastic tubes for electric wiring.

400 meters in total !

Electricity.

Water tank, 400 litres.

Outside painting.

Grey anti skid paint on deck.

Rudder.

Hydraulic steering system.

Two engines.

Galley.

Forward toilet/shower and cabin.

Mid cabin.

Saloon.

Navigation.

Bar.

Aft cabin.

Aft toilet and shower.

An old truck wagon…

…rebuilt to fit
Bird of Passage.

First roll out.

Tight start.

Launch…

Party again !

First sea trial.

Rigging.

A lot of lines.

140 square meters of sail.

Bimini and solar panels.

Windlass.

The End