

Magnetic Mendota:

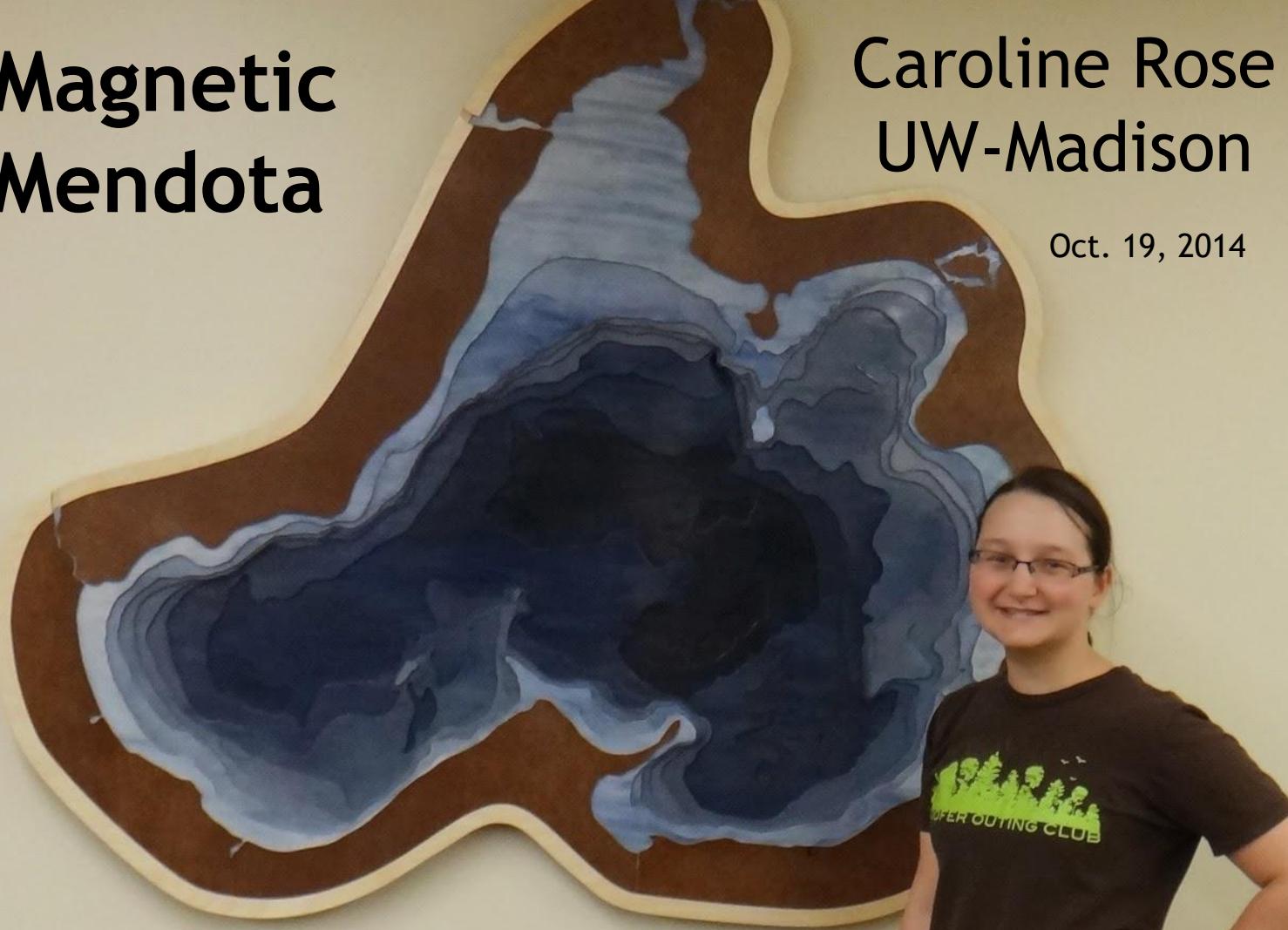
Caroline Rose UW-Madison

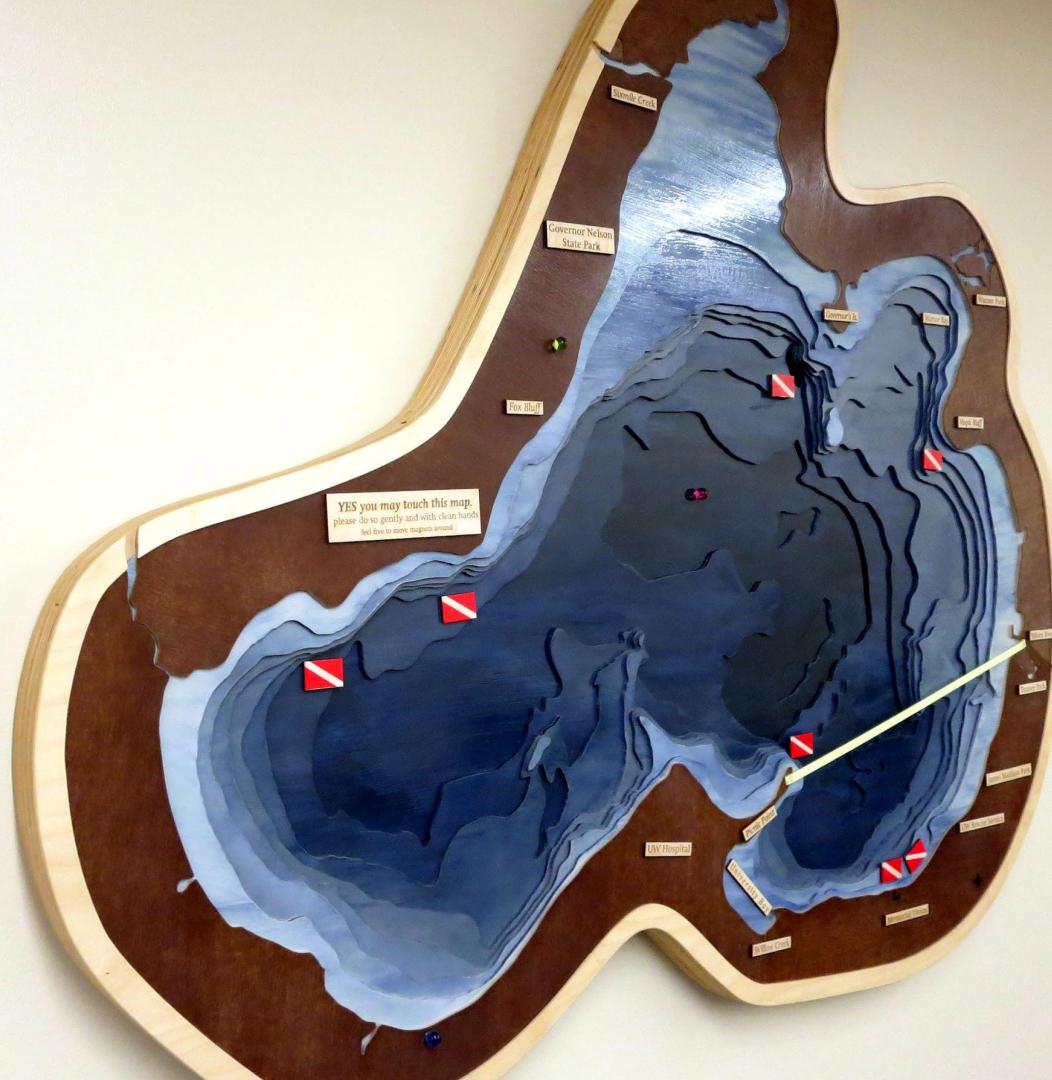
Oct. 19, 2014

Magnetic Mendota

Caroline Rose
UW-Madison

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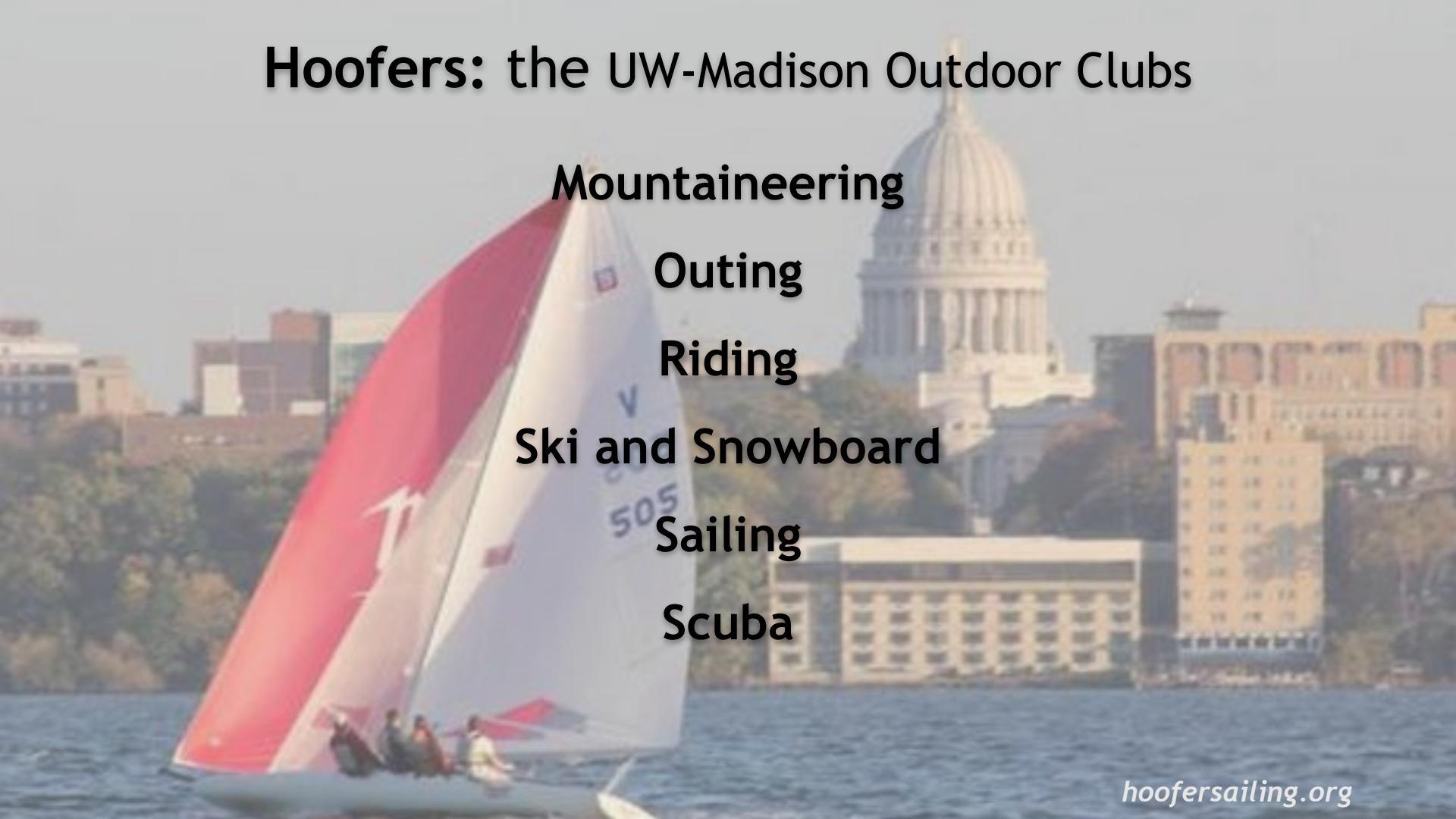








Hoofers: the UW-Madison Outdoor Clubs

A photograph of a sailboat with a red and white sail on Lake Mendota in Madison, Wisconsin. In the background, the white dome of the Wisconsin State Capitol building stands prominently against a clear sky. The water is calm, reflecting the light.

Mountaineering

Outing

Riding

Ski and Snowboard

Sailing

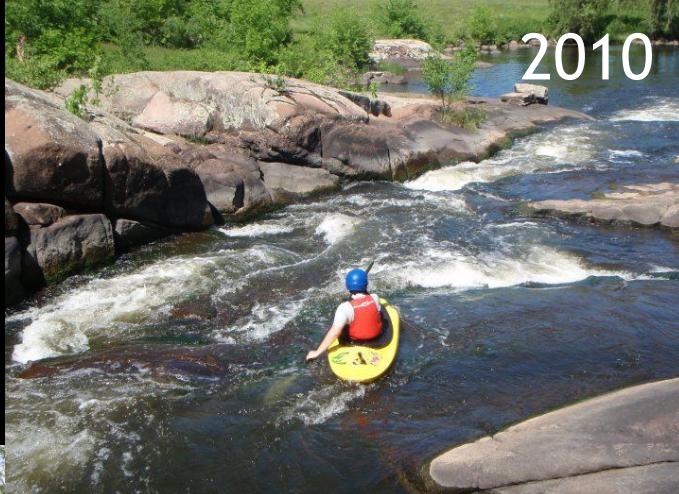
Scuba



2009



2010



2011



2012

lake mendota map



cmrose@wisc.edu x



Joe Webb

to cmrose ▾

Hi Caroline,

I figured since you know a lot about maps that you might be a good person to ask. I am looking for a large scale map/digital file of lake Mendota for the new space. Think about something that we could enlarge to fit on a wall (maybe as wallpaper). Any suggestions?

Thanks,

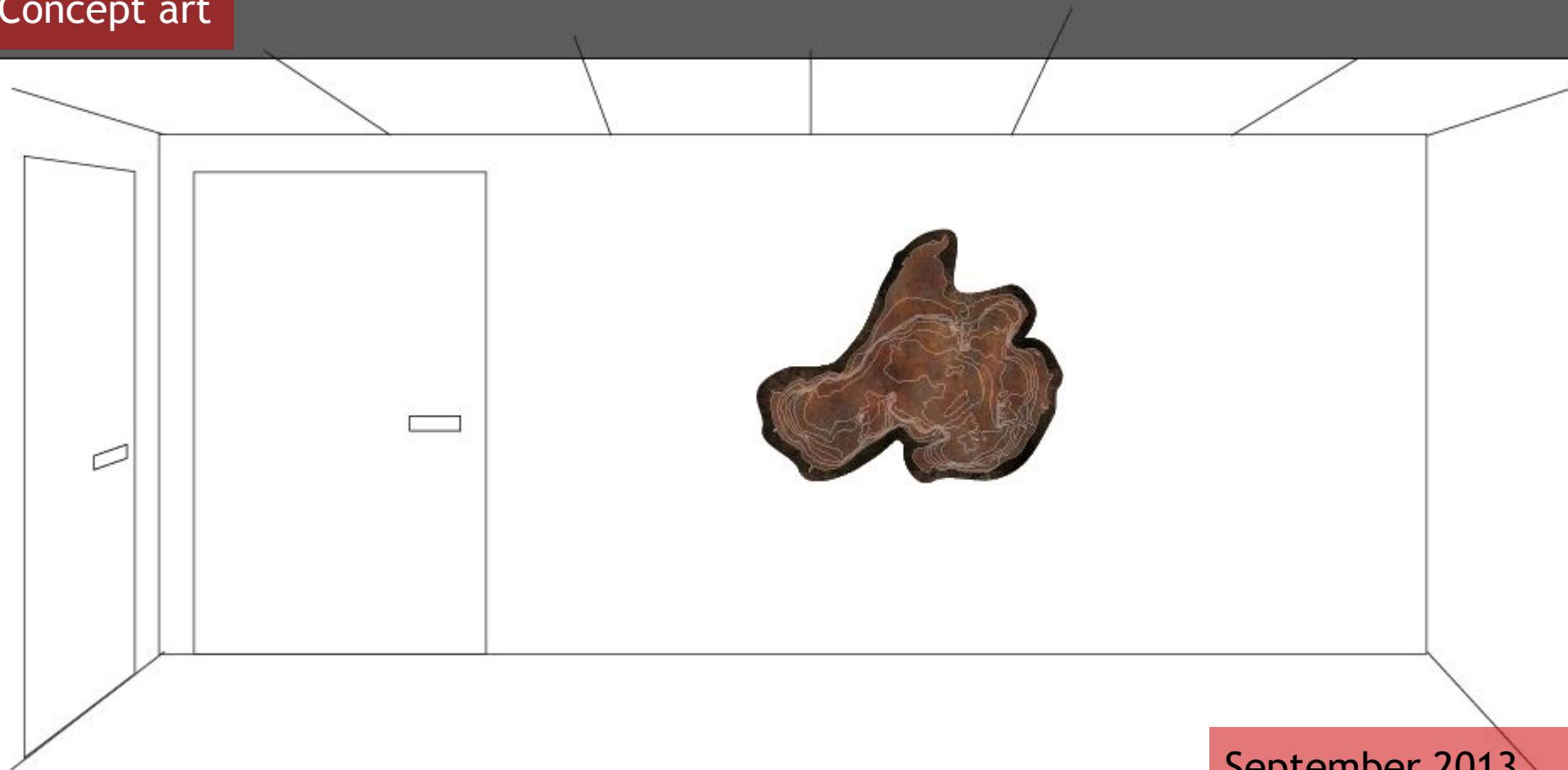
Joe

Initial Plans: April 2013

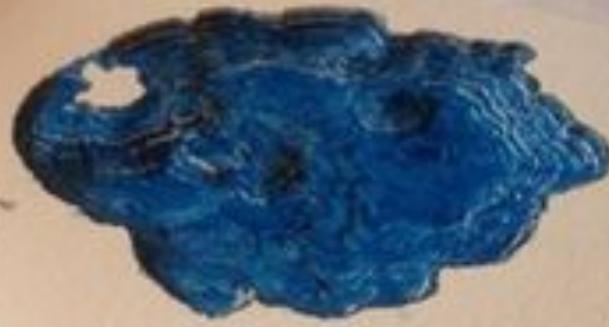
hooferouting.org



Concept art



September 2013



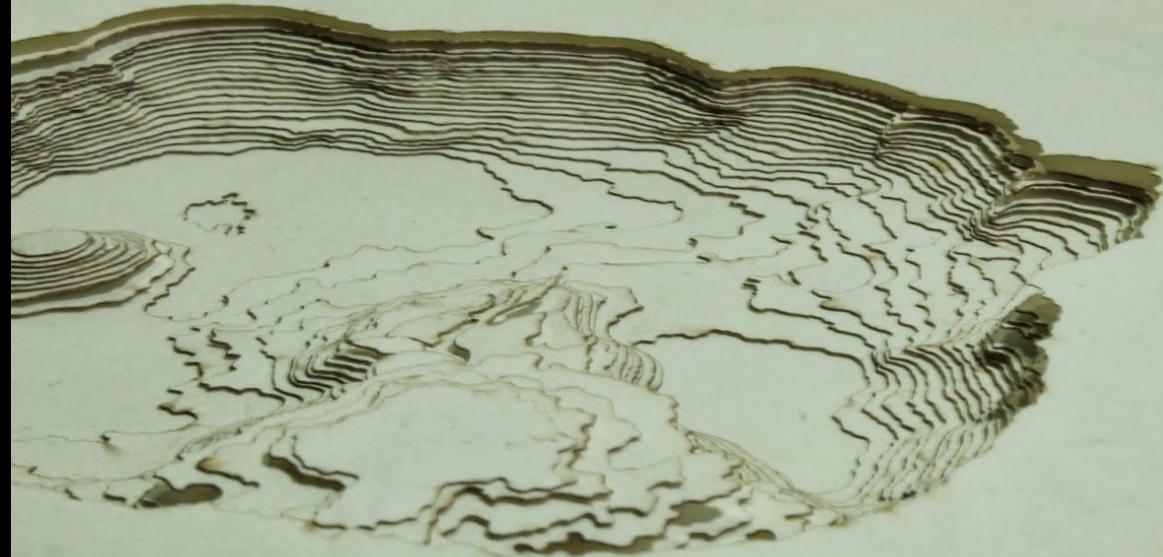
Blue fabric

17th century
This fragment of blue fabric was found at the site of the former St. John's Church in Boston. It is made of a heavy, woven fabric, possibly silk or cotton, and shows signs of wear and discoloration. The fabric appears to be a fragment of a larger garment, possibly a vestment or a part of a church robe. The color is a deep, saturated blue, which has faded significantly over time. The texture of the fabric is visible, showing the weave pattern. There are some small, dark spots and areas of wear, particularly along the edges, indicating its age and history. The fragment is displayed on a light-colored card, which also contains some handwritten notes about its origin and characteristics.











sector67.org



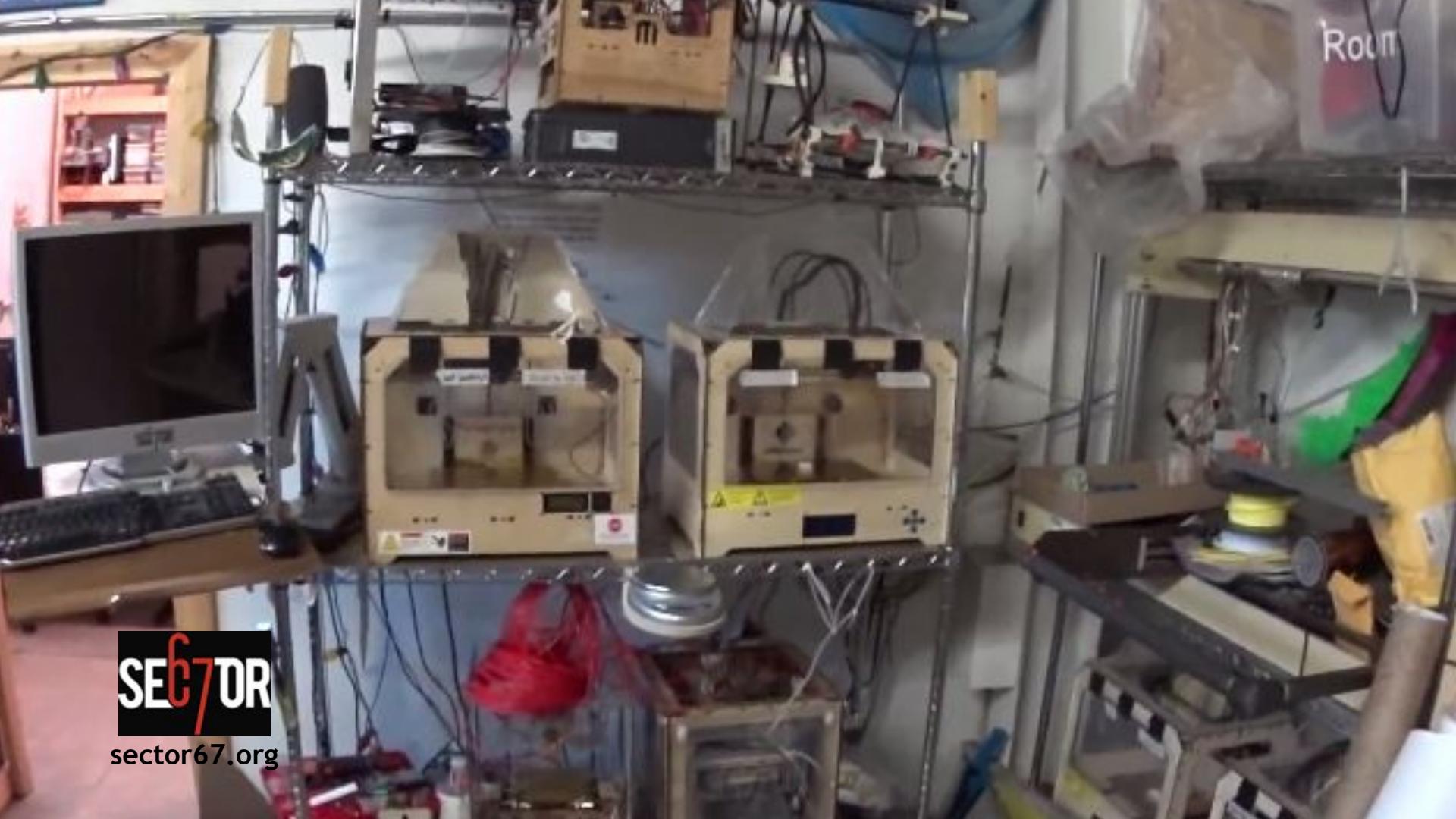
A photograph of a well-lit woodshop or workshop. In the foreground, a large table saw with a red blade guard is positioned. Behind it, there's a tall wooden shelving unit holding various tools and materials. To the right, a red stool sits on a workbench. A large window on the right side lets in natural light, and a satellite dish is visible outside. The overall atmosphere is one of a functional and organized workspace.

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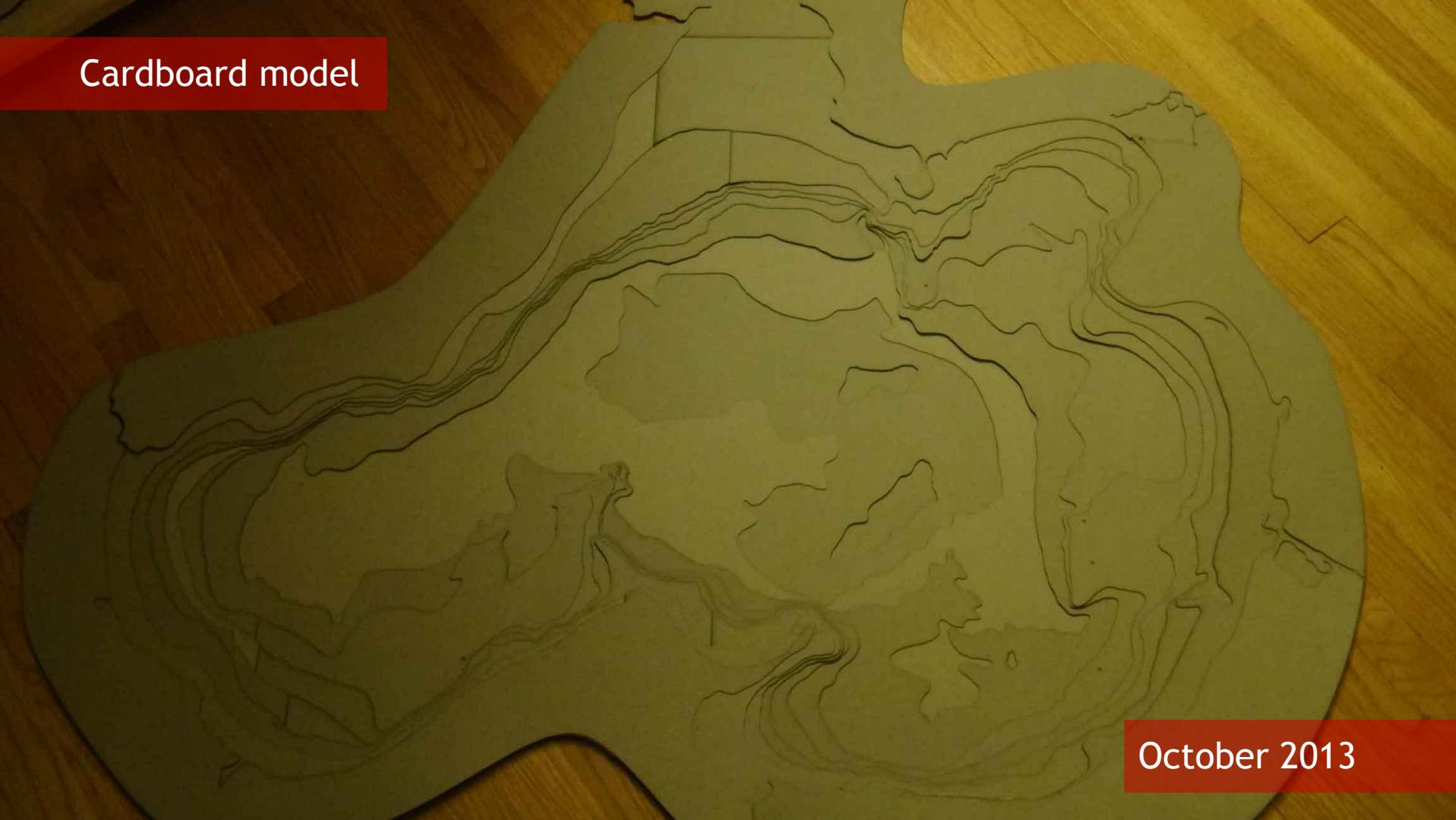
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Laser cutter



October 2013

Cardboard model



October 2013

Chemetal magnetic laminate

- iron foil sandwiched between a paper & resin material
- looks like wood
- attracts magnets like metal
 - ...instructors can add anything to the map using magnets
- cuts with woodworking tools
 - We could do our own cutting:
made by Hoofers for Hoofers

November 2013

Laminating Chemetal & wood



November 2013

Manual Control [F3] MDI [F5]

Preview DRO

Toolpath for the router

X: 48.7483
Y: 43.9619
Z: -0.1352
Vel: 6.7000
DTG: 0.2144



November 2013

CNC Router



November 2013



November 2013



Hoofer boathouse



January 2014

Paint tests



January 2014

Base coat in shades of grey



January 2014

Absorbent ground



January 2014

Blue dye-based ink

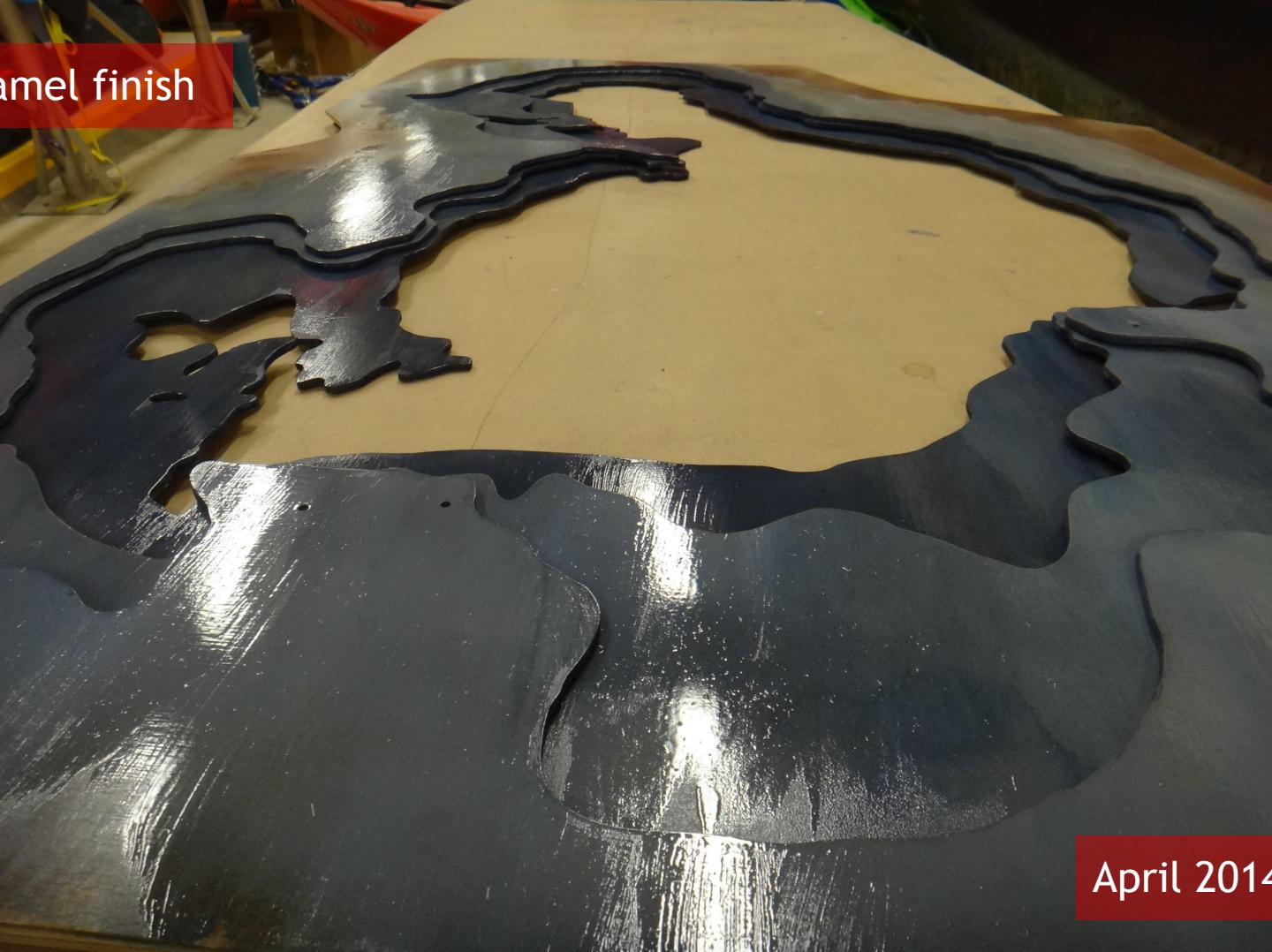
January 2014

Spray varnish



March 2014

Clear enamel finish



April 2014

In pieces



April 2014

Stacking up the layers



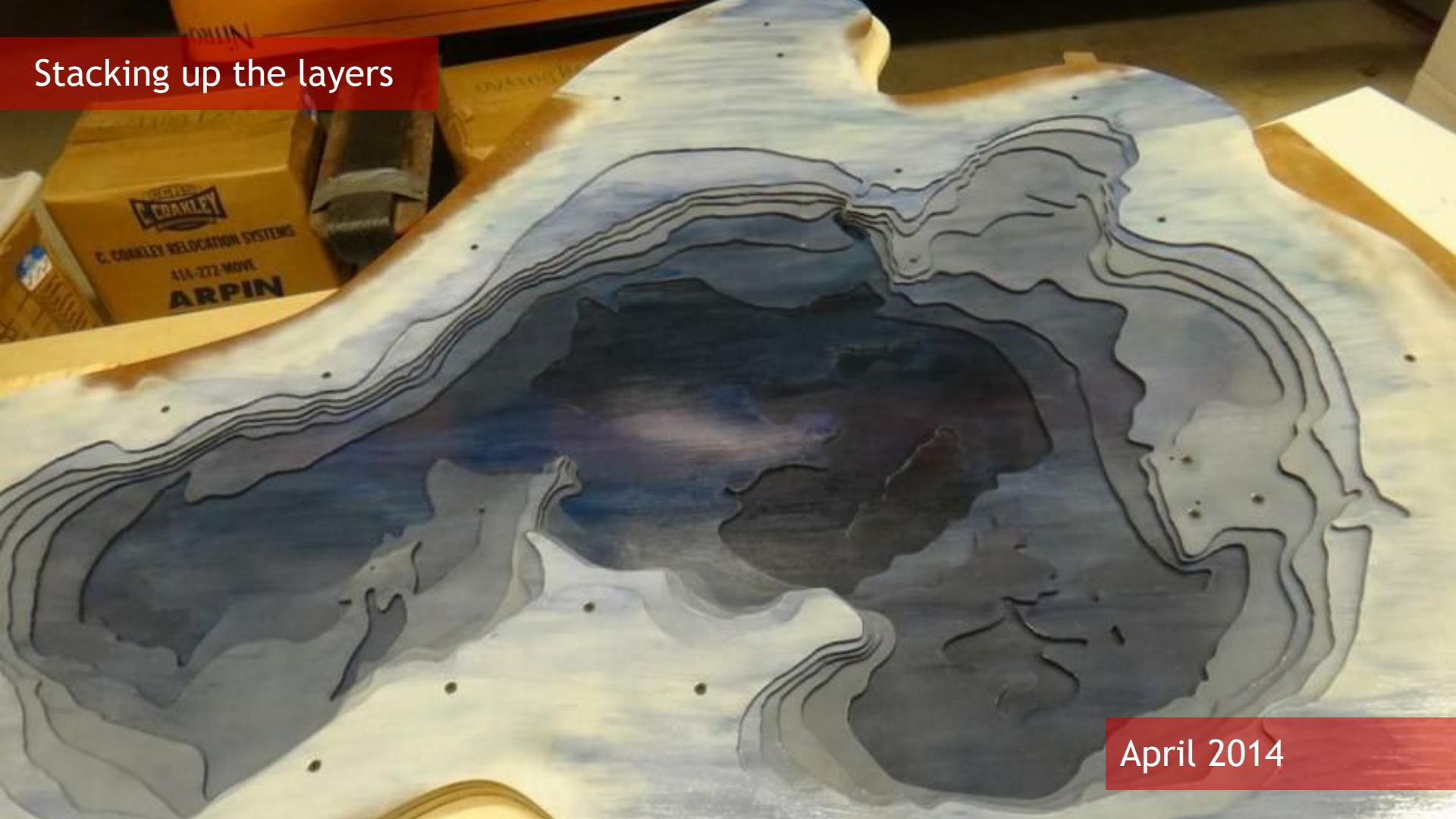
April 2014

Stacking up the layers



April 2014

Stacking up the layers



April 2014

Grinding off protruding screws



April 2014

Wooden frame pieces



April 2014

Building the wooden frame

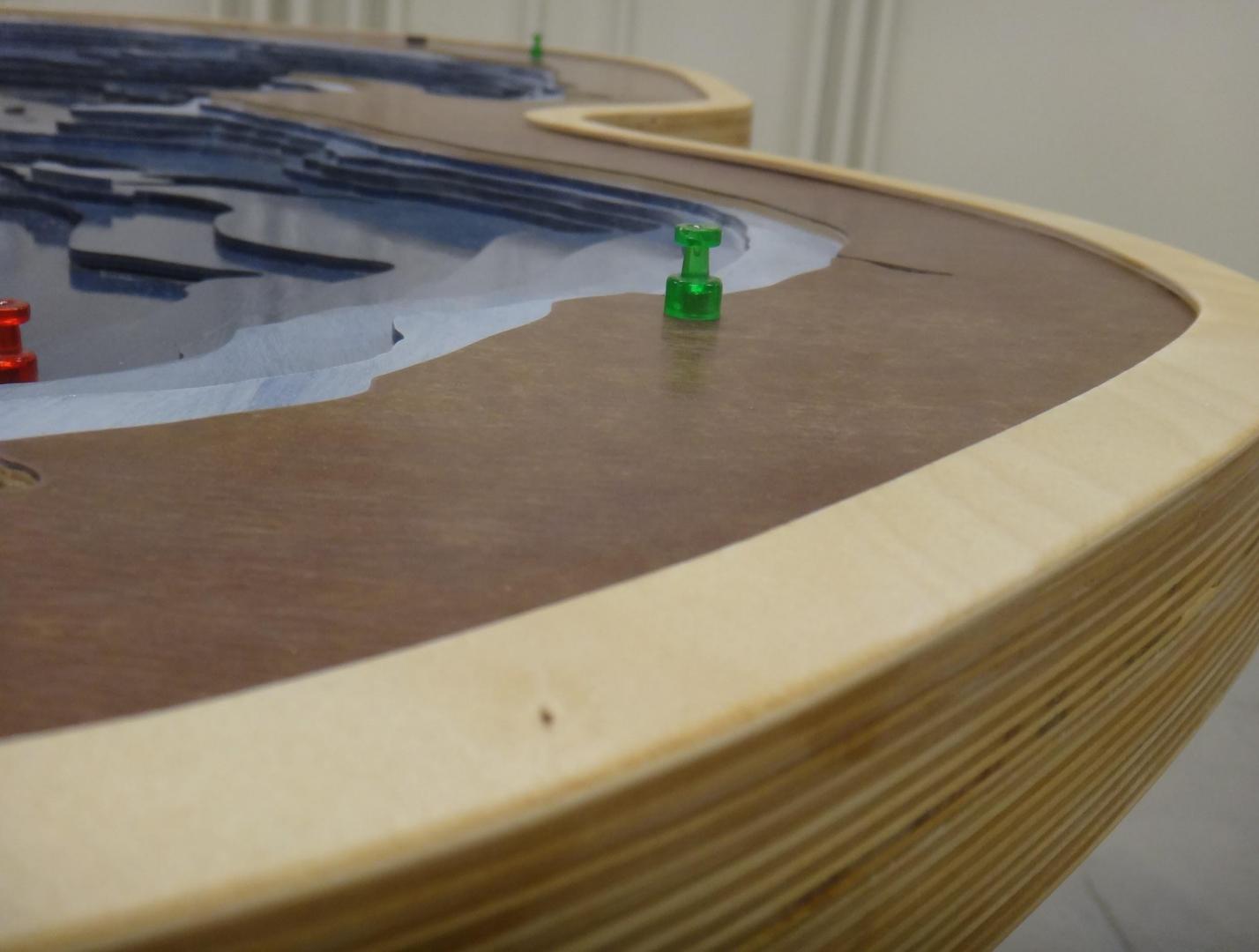


April 2014

Sanding the wooden frame



May 2014





@cmrRose

@southpolesteve @sector67 @UWMadison
@WisconsinUnion Breaking News: IT'S
DONE. Better photos and some blog posts
soon

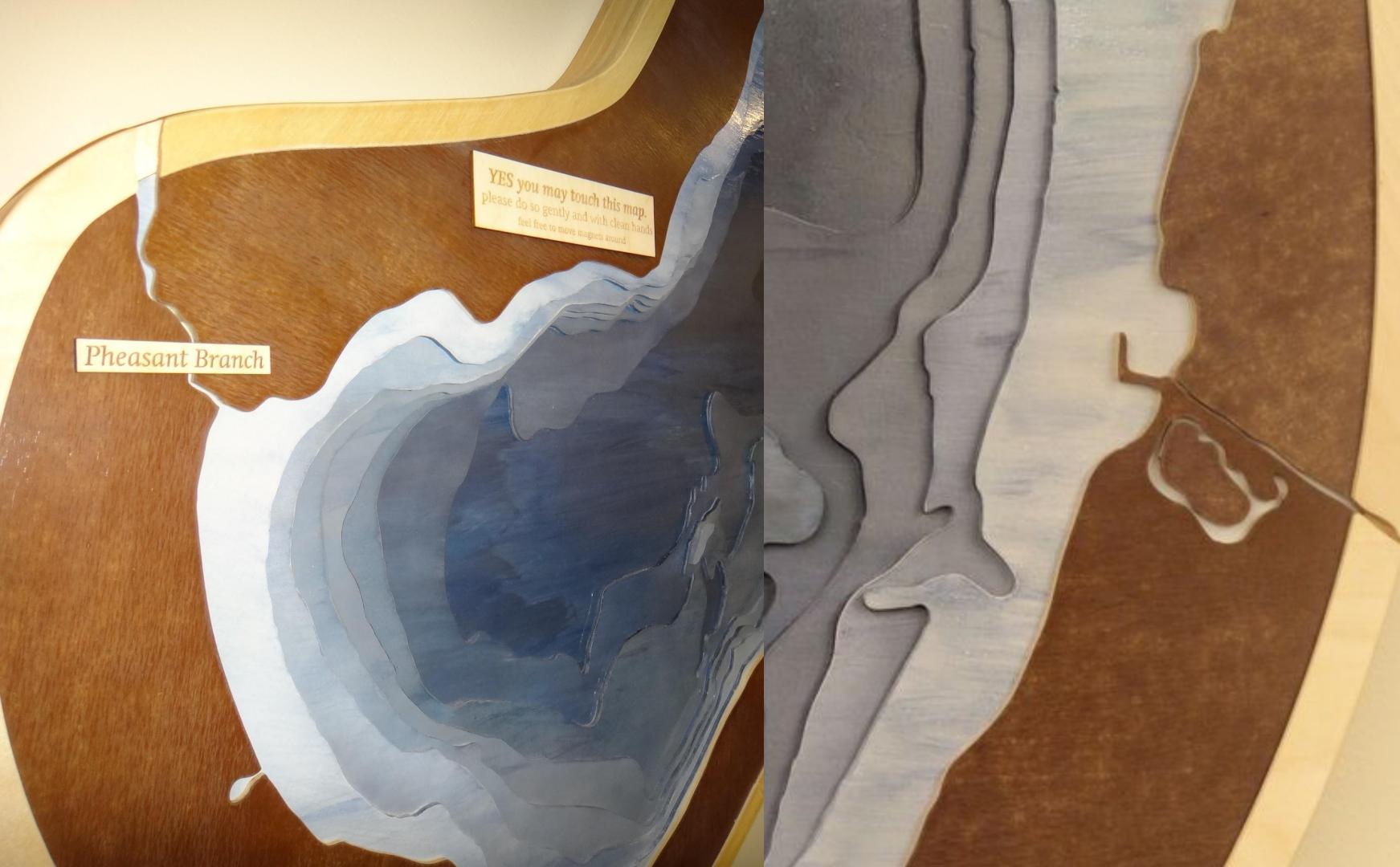
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RETWEETS

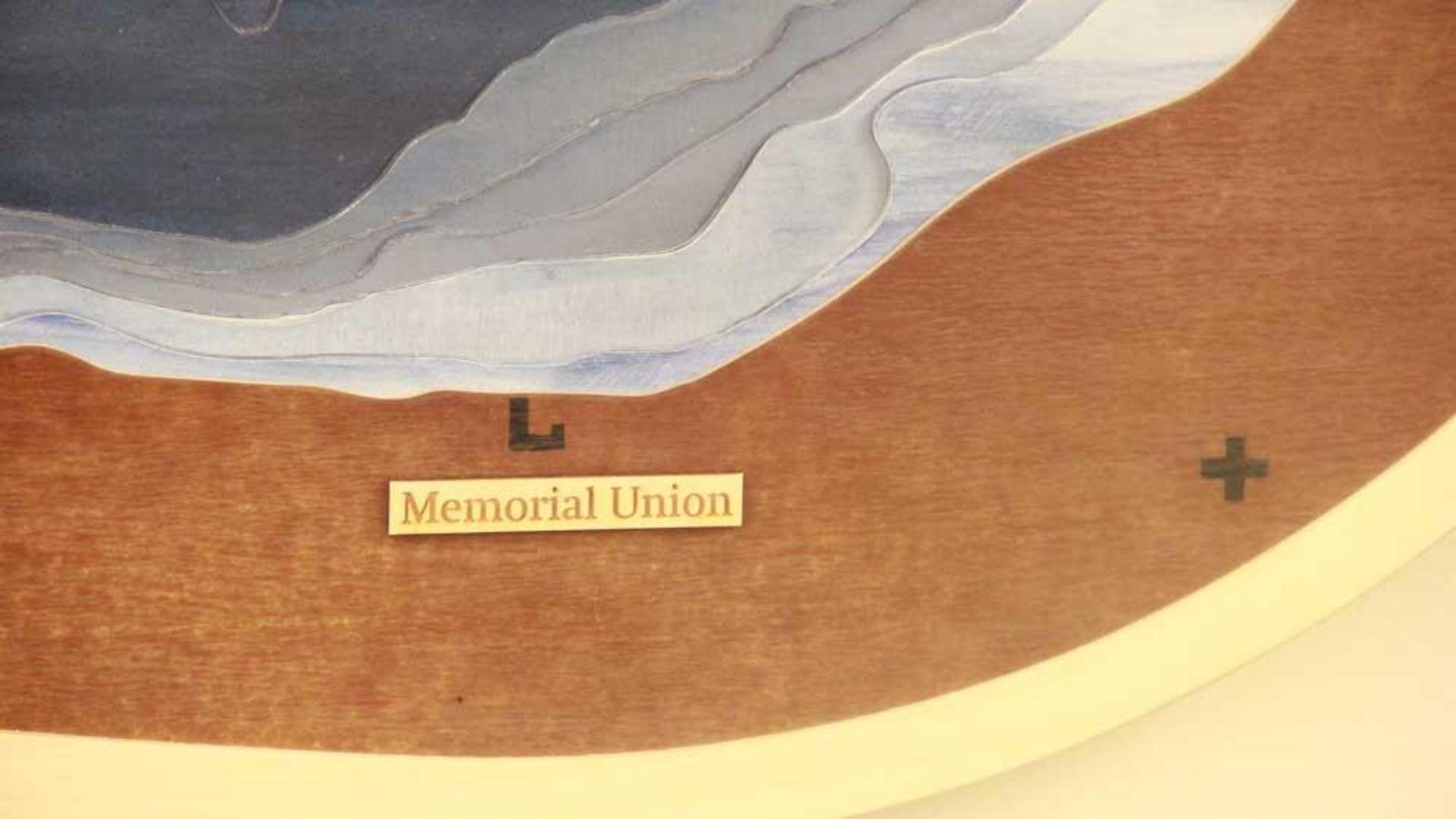
FAVORITES





Pheasant Branch

YES you may touch this map.
please do so gently and with clean hands
feel free to move magnets around



A large, stylized mural of a landscape occupies the upper portion of the image. It features rolling hills in shades of blue and grey, transitioning into a lighter blue area that suggests water or a distant horizon. The overall style is painterly and abstract.

L

Memorial Union

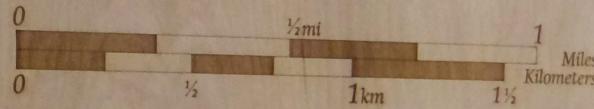
+

YES you may touch this map.
please do so gently and with clean hands
feel free to move magnets around





Lake Mendota



Contour interval: 10 feet Maximum depth: 83 feet

*dedicated to
Hoofer volunteers,*

who give so much of their time and themselves

*this map was built by Caroline Rose
with assistance from fellow Hoofers
Justin Randall, Dennis Mossholder & Eric Oberhart
and from Sector67*

Fox Bluff

Governor's Is.

Maple Bluff

Governor Nelson
State Park

James Madison Park

Pheasant Branch

Memorial Union

Picnic Point

Tenney Park

Sixmile Creek

UW Hospital

Warner Bay

UW Rescue Service

Willow Creek

Warner Park

University Bay

Willow Creek

Yahara River

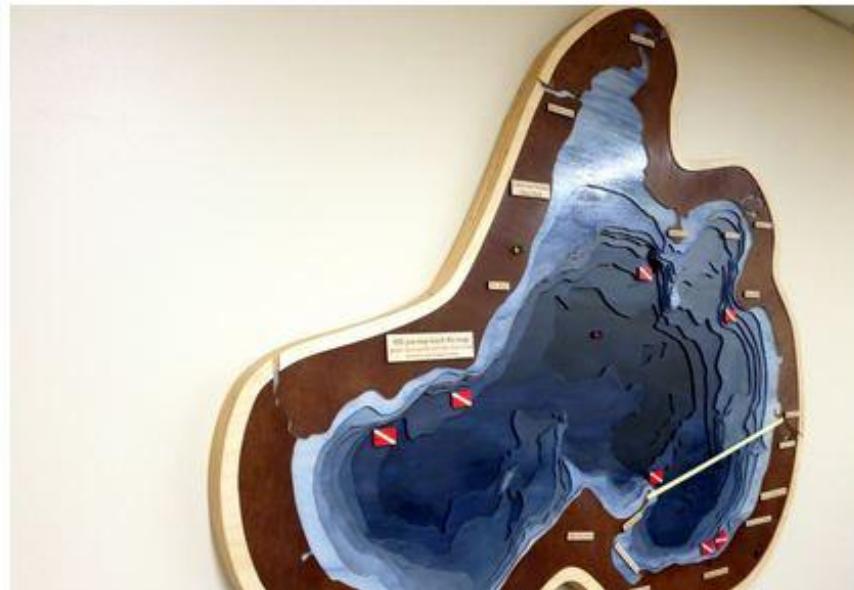






Mendota Goes Magnetic

Posted By Kayla Schmidt on Jun 16, 2014 | 0 comments





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UNCA RECOGNIZED

Lake Mendota mapmaker shows depth of her appreciation

BY GEOGRAPHY STAFF · JUNE 24, 2014 · POST A COMMENT

Story by Käri Knutson, UW Communications



Caroline Rose remembers the first time she saw Lake Mendota. The Minnesota native had been accepted at UW-Madison and came to campus for a visit.

"It was this beautiful, sunny day," Rose says. "There were sailboats out on the lake and it just looked so peaceful."

Like so many people, Rose developed a connection with the lake. Now, the student of cartography and geographic information systems, who is pursuing a master's degree here, has paid tribute with a three-dimensional, magnetic map of Lake Mendota located in the renovated



CARTOGRAPHY

3-D Hoofers map shows deep appreciation of lake

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Magnetic, 3D Relief Lake

By Nathan Hurst Posted June 16th, 2014 11:54 am Category [Art & Design](#), [CNC Machining](#)

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In the early planning stages, Rose had a lot of help from fellow Hoofer and experienced craftsman Dennis Mossholder, who suggested several of the materials ultimately used in the map, such as Baltic birch for the wood components.

Rose used data from the Wisconsin DNR to produce Mendota's lake depth contours at 10 foot intervals.



Instructor Joe Silverberg refers to Rose's map of Lake Mendota while teaching a ground school sailing class.

After cutting out the map pieces, more table space and fewer power tools were needed, so the map moved to Memorial Union. Rose says that finding a suitable clear coat for the project was one of the greatest challenges. The finish had to hold up to touching and magnet movement, yet be thin enough not to impede magnetic attraction.

"The look of the enamel finish is great for this piece," Rose says. "It gives the lake area a candy-apple shine and retains some of the texture of the brush-strokes, adding visual interest."

The magnetic text labels were designed by a fellow scuba diving flag magnets and hopes to create more

While many in Madison are familiar with Lake Mendota, appreciation.



MadGeogNews

News from the UW-Madison Geography Department







Justin Randall

**fellow Hoofers
Dennis Mossholder
and Eric Oberhart**

Sector 67 founder Chris Meyers

Sector 67 members Charlie, Scott, Tim, and Jesse



Milwaukee Makerspace

2555 S. Lenox St.

Weekly open meeting
Tuesdays 7pm

<http://milwaukeemakerspace.org/>

Caroline Rose
cmr.rose@gmail.com

bathymetricbook.blogspot.com

geography.wisc.edu/cartography/blog

