

Witch's Brooms

by **edfrank** » Fri Dec 21, 2012 10:47 am

Barry Caselli and others posted a number of times about witches brooms. Here are some of those photos and links:

Barry Caselli, 1/4/10

I saw roughly 9 or 10 witch's brooms today in my short walk in Wharton State Forest. I photographed 8 of them, and here are 4 of the coolest ones. Hope you enjoy. The trees are of course Pitch Pine.





branch, but I know of a White Pine in a residential area whose entire top is a witch's broom! I have a photo of it as well. Also I drove past it today.



Witch's Broom on Pitch Pine

Being that the Pine Barrens is such a large forested area, these things are quite easy to find.

<https://groups.google.com/forum/?hl=en&fromgroup=s#!topic/entstrees/6vq-hVUT7d4>

Most were very high up in the trees near the top. There was one that was on a tree that was only 10 to 12 feet tall. That one was maybe 4 feet off the ground. Two of them, the two biggest ones, were about 12 feet up. I've seen them in all sizes of trees, at all heights above the ground. I even found a tiny one growing on a knee-high tree one time. I find them fascinating to look at. And they are very common. Oftentimes you can stand in one spot and look all around you and see 3 or 4 of them, if you look hard enough.

Barry Caselli, May 15, 2006 19:53 PDT

One tree phenomenon that I enjoy finding here in the NJ Pine Barrens is "witch's brooms" (on Pitch Pines). From my limited research, this is what they are called. I don't quite know or understand all about them, but I enjoy noticing them while driving around the Pine Barrens. I have photos of probably 4 or 5 of them, but have seen dozens. Normally they are on a



Witch's Broom on Pitch Pine

One time I found one on a White Pine at work, and someone ran some machinery next to the tree which it was on, and broke it off the tree. I've got it in the back seat of my car.

http://www.nativetreesociety.org/species/witchs_broom/witchs_broom.htm

Barry Caselli, 2/20/09

http://www.nativetreesociety.org/fieldtrips/new_jersey/ground_level.htm

Today I took a hike in Wharton State Forest, something I have not done enough of. I've lived 6 miles or so from Wharton for 24 years, and have driven through it quite a bit, but hiking is another story. FYI, Wharton is the largest unit in the NJ state parks and forests system, at 115,000 acres. It contains over 400 miles of sand and dirt roads, plus a couple of paved roads go through it. It also contains some marked nature trails. Today I hiked part of the yellow trail. I believe I did a round-trip hike of 8 miles.

It was around 32 degrees and windy, but I like the cold. I took many digital photos, and shot a couple of minutes of video as well, just to add a personal touch. I plan on making a Windows slideshow with the photos, and add the video to it.

Usually I try and photograph every, or nearly every, witch's broom that I see. That's not always possible. But when hiking it's easier, definitely. I saw quite a few. There must be thousands of them throughout the entire Pine Barrens.

One other thing I see a lot of in the Pine Barrens is branches coming out of the Pitch Pines at or just above ground level. I also see branches come out of a tree and droop down to the ground. I find the ground-level branches to be quite interesting. In everyone's experience, have you seen this on other species?

Another thing I saw today is trees that fell over, all the way to the ground, and then one or more branches became new trees. Anyone see this before?

Once I get the slideshow/video made and uploaded, I will inform the group...

All right folks. I made up the slideshow and uploaded it last night. Part 2 contains a tiny bit of video near the end.

As usual, read the full description before viewing. Here's the link:

<http://www.youtube.com/user/MillerMeteor74>

Just look under "videos" for NJ Pine Barrens Wharton SF 1, and NJ Pine Barrens Wharton SF 2.



<http://www.youtube.com/watch?v=Q0IeAs3y4jw>



<http://www.youtube.com/watch?v=RUB3N9ZOkg0>

Barry Caselli, January 23, 2009

White Pine Witches Broom A couple years ago, before the forums became a Google group, we discussed brooming in trees.

http://www.nativetreesociety.org/specie..._broom.htm This is the largest and most conspicuous broom I know of. I happened to be in the area of this tree today, so snapped a couple pictures.



http://www.nativetreesociety.org/fieldtrips/new_jersey/20090123-witchesbroom/white_pine_witches_broom.htm

Now I see them everywhere. But I drive through Pitch Pine forests every day of the year, no matter where I go. There must be hundreds of them in the Pine Barrens, or maybe thousands. I suspect thousands, seeing as the Pine Barrens covers a million acre area. The smallest one I ever saw was not more than 6 inches in diameter, on a tree not more than 3 feet tall. I know I have that one on video, but not sure if I took a picture of it.

Edward Frank, Jan 31, 2008

TOPIC: Craters of the Moon National Park, ID
http://www.nativetreesociety.org/fieldtrips/us_west/idaho/craters/craters_of_the_moon_national_mon.htm
http://groups.google.com/group/entstrees/browse_thread/thread/68bfd317babbd63c?hl=en



photo by Edward Frank - A limber pine tree infected with dwarf mistletoe. The mistletoe results in part in the formation of the witch's brooms that appear prominently on the right side of this tree.

Edward Frank

[Splitrock, NJ](#)

by **greenent22** » Sun Dec 23, 2012 1:45 am

Super small patch of virgin old-growth, with some very tall and fat oaks. One oak is around 60" DBH or more (very tall, very high branching deep forest grown). Maybe a little surveyor's error or boundary woods. Nice patch of a few trees. Possibly more to the west, probably not, hope so, needs looking into.

[400-Year Old Osage Orange in Baltimore, MD? Felled by Sandy](#)

by **MickR** » Sat Dec 22, 2012 7:47 pm

Although this is "old news" now, I wanted to post about it because it seems skeptical to me after reading about the "discovery" of Osage Orange (*Maclura pomifera*) in Eric Rutkow's excellent new book *American Canopy*. Here is a link to the story on the tree in Baltimore:

<http://articles.baltimoresun.com/2012-1...ry-workers>

I just got *American Canopy*, where the author mentions Merriweather Lewis made the first cuttings of Osage Orange on the Lewis & Clark expedition in 1804. The tree was then naturalized across the nation as a windscreen and as a natural barbed wire-type hedge planting. The Baltimore Sun article mentions how the tree was part of the 1860 planning of the city park, and could be "upwards of 4 centuries old". I found this to be curious, as my understanding is the species was confined to north Texas and western Arkansas until the 1804 discovery.

If the tree was from a cutting, could it have reached a large size in 50 or so years as to warrant a carriage path to circumvent the tree? Is there any chance the tree was native to Maryland? There are a few other beautiful, gnarly Osages in the park, and a few down the road and across the Jones falls in a weedy cropping which suggest the tree has been escaping mildly over the years. This particular tree had a massive, twisted and prone trunk. It certainly suggested old age, but pre-dating the cuttings in 1804?

[Re: 400-Year Old Osage Orange in Baltimore? Felled by Sandy](#)

by **edfrank** » Sat Dec 22, 2012 9:31 pm

I have read quite a bit about Osage orange. It seems it was much more widespread 10-12,000 years ago.

it reproduced across a wider range after its seeds had passed through the guts of various herbivorous megafauna. (I will need to look up the references). It is extremely unlikely that there were any examples outside of the natural range in Texas and Arkansas. I know many species can grow quite large in 50 years, I would guess that Osage orange could as well. It is not reasonable that the tree could be older than the 1804 cuttings. (Actually I think the first cutting died and the populations were derived from a second collection).

Here is a long discussion about osage orange with much of the info I found about it:

<http://www.ents-bbs.org/viewtopic.php?f=106&t=1113>

Ed Frank

[Re: 400-Year Old Osage Orange in Baltimore? Felled by Sandy](#)

by **Bart Bouricius** » Sun Dec 23, 2012 1:03 pm

My presumption is that the age estimate was not based on counting rings, but on the old and venerable eye ball and hearsay techniques. As is typical in such stories, no dimensions are given.

[Re: 400-Year Old Osage Orange in Baltimore? Felled by Sandy](#)

by **PAwildernessadvocate** » Mon Dec 24, 2012

I worked one summer in Rock Creek National Park in Washington, D.C. of course not far from Baltimore. We had some big old osage orange trees, in the Dumbarton Oaks section of the park, but I remember it being emphasized that they were planted and that osage orange was most certainly not native to the region.

Re: Balkans Expedition 2012 - Location Map (Former Yugoslavi)

by **Chris** » Wed Dec 26, 2012 10:07 pm

My local PBS station just had a rerun of a Nature episode focused on the Balkans.
<http://www.pbs.org/wnet/nature/episodes/wild-balkans/introduction/5485/> Although the didn't visit any of the same places as Jeroen/Kouta/Michael and the endless comparisons to Tolkien's Middle Earth are annoying, still some nice places visited. You can watch it online (though maybe only in the US).

Chris Morris

Re: Balkans Expedition 2012 - Location Map (Former Yugoslavi)

by **KoutaR** » Thu Dec 27, 2012 3:38 am

Youtube has a document also called "Wild Balkans", but apparently not the same Chris linked. The first part is here:

http://www.youtube.com/watch?v=2eo8oet_pk8

Focus is on animals. And as often in Europe, there is also much about people. At the beginning the film shows the black pine forest of Crna Poda and great views to the Tara Canyon.

Kouta Rasenan

(Chris commented that this was the same documentary)

Re: Asheville Trees, NC

by **bbeduhn** » Wed Dec 26, 2012 2:10 pm

WNC Arboretum

I spent part of X-mas hitting a few spots I'd wanted to revisit. At the arboretum, I did some measuring between the Blue Ridge Parkway and the gate. 8 dawn redwoods stand sentinel by the gate, 7 of which top 100 feet. I reported on them several months back. i hadn't noticed the red pines before. The loblollies garnered most of my attention before. They are whoppers, especially for the mountains.

thuja occidentalis	northern whitecedar	75.5'
		79.4'
pinus resinosa	red pine	85.0' 94.2'
acer saccharum	sugar maple	99.7'
pinus taeda	loblolly pine	118.9'
122.2'	125.2'	129.4' 133.7' 134.0'

next, I checked out my shortleaf right off the Parkway, briefly the state champ for height. I'd hoped for a miraculous recovery. No such luck.

pinus echinata	shortleaf pine	120.7' and
		very dead, formerly 124.6'

I wanted to make sure the 124.8' pitch pine was indeed a pitch and not a loblolly. It is a pitch and I found a couple of nice cohorts.

pinus rigida	pitch pine	106.4' 110.1'
		124.8' previously measured

this is a grove I meant to get back to last winter but didn't make it. the white pines looked like they'd come close to 150' they're young and vibrant, also, just off the Parkway on the Mountains-to-Sea Trail.

prunus serotina	blk cherry	109.2'
acer rubrum	red maple	110.2'
quercus alba	white oak	111.4'
quercus coccinea	scarlet oak	105.4'
carya glabra	pignut hickory	129.4'

easily the tallest I've found. There's a 163 footer in

the county

pinus rigida	pitch pine	99.4'	102.3'
pinus echinata	shortleaf pine	98.8'	113.0'
pinus strobus	white pine	128.3'	
135.7'	136.3'	140.6'	147.3'

Brian Beduhn

[Dendrochronology used to gauge the age of Viking longships](#)

by PAwildernessadvocate » Sat Dec 29, 2012

Skip ahead to about the 7:40 mark in this video to see just the dendrochronology segment.



<http://www.youtube.com/watch?v=QSOrt8cclMc>

[Re: New Tallest California Sycamore](#)

by yofoghorn » Sat Dec 29, 2012 7:01 pm

This is the tallest California sycamore - 178.20'. It was measured by Impulse in May 2012 and discovered in December 2011. If you look closely, you can see two people standing at the base of the tree.

Zane J. Moore
Undergraduate Student
Colorado State University



Son of a Beech! (CT)

by **RyanLeClair** » Sun Dec 23, 2012 5:15 pm

Just some tasteless humor to kick off today's post.

Fairfield, Conn., is home to Lake Mohegan Park. This park has A LOT of beeches. The park features a lot of well-drained slopes, and the beeches dominate these areas.

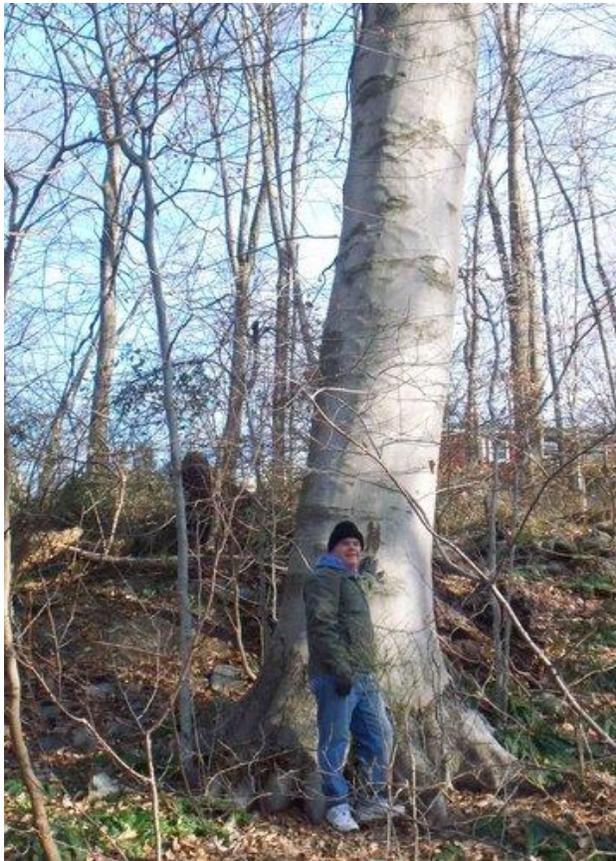
The first beech we measured was essentially a snag--the top blew out long, long ago, and the tree only has a couple of branches left. It's FAT, though.

BEECH #1

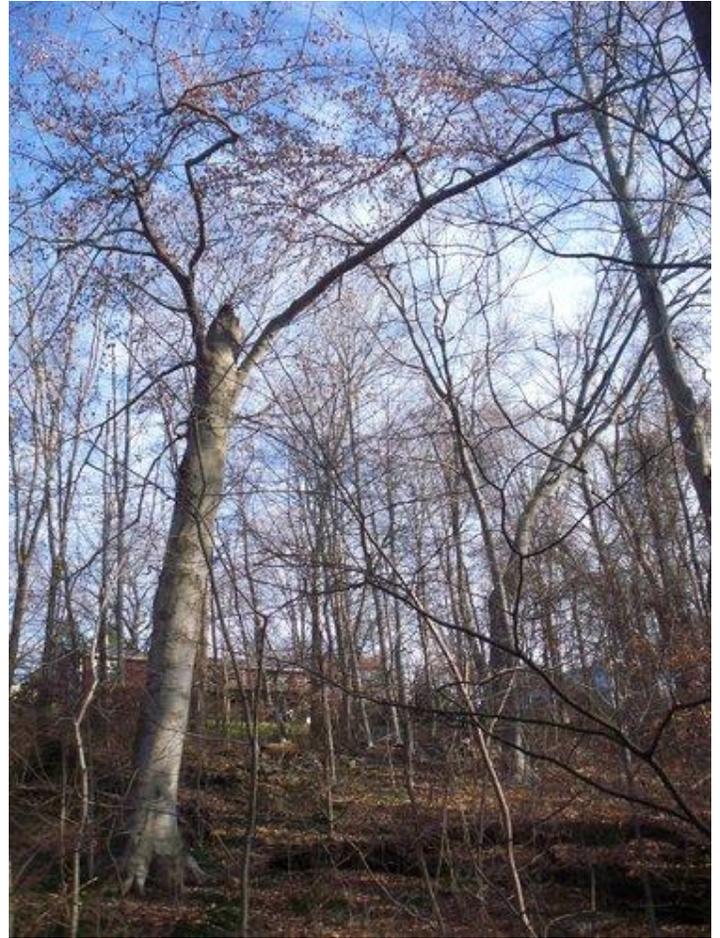
Ht: 56.4'

Circumference: 10' 2"

Diameter: 3.2'



Beech #1



Beech #1

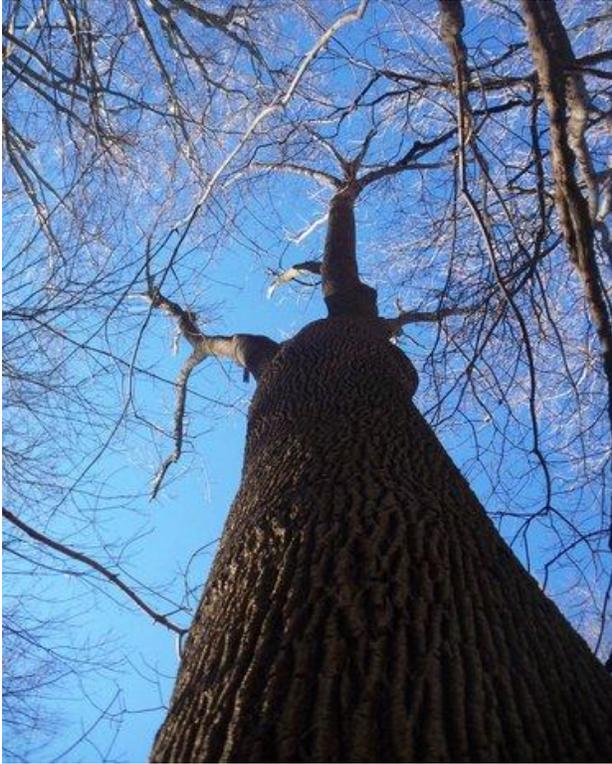
The next tree was an ash. I believe it's a green.

GREEN ASH

Ht: ~100' (straight-up, because the top was so irregular)

Circumference: 9' 9"

Diameter: 3.1'



Green Ash



Green Ash

Beech No. 2 was perfect. A specimen tree. A sight to behold.

BEECH #2

Ht: ~100' (again a straight-up. I couldn't find the top)

Circumference: 10' 5.5"

Diameter: 3.3'

The next beech was somewhat tall, though not very thick.



Beech #2

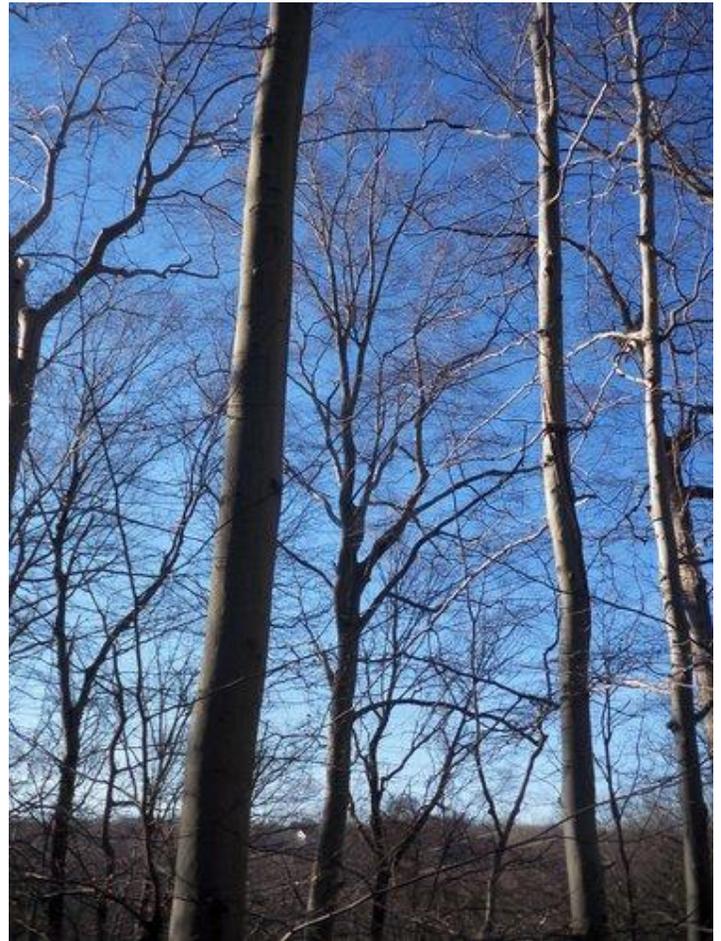


Beech #2



Beech #2

BEECH #3
Ht: 115.2'



Beech #3 (The Tallish Beech)

Ryan LeClair

[Part II: the Sacred Spring near the Sacred Cave](#)

by **michael gatonska** » Mon Dec 24, 2012 3:47 pm

This is Part II in a series of two soundscapes that I captured at what is considered a sacred site in northwestern Massachusetts. Part II is a 4'20" soundscape of a natural spring adjacent to a small cave, where at least four different tribes of indigenous peoples of the Americas have held special ceremonies (tribal peoples coming from the northeast and plains regions of the United States and Canada).

This soundscape follows a clear formal architectonic shape: a) the gentle trickling sounds of the flow of a natural spring, rustling leaves during the fall season, bird-life; b) an increase in wind intensity and forest sounds activity; and c) a decrease in the wind intensity revealing the "tapping" percussive sounds of falling leaves (lots of birch and white oak), shaken from their branches and making their improvisatory decent to earth.

Native American spirituality is a land-based spirituality, above all else. The relationship between the land and the people was one of mystical interdependence, and it played a central role in the lives of many of these peoples. As Angie Debo writes in *The History of the Indians of the United States*: he (the Indian) was deeply religious. The familiar shapes of earth, the changing sky, the wild animals he knew, were joined with his own spirit in mystical communion. The powers of nature, the personal quest of the soul, the acts of daily life, the solidarity of the tribe--all were religious, and were sustained by dance and ritual.

Taken from the info found below.

Location: Northwest Massachusetts

Date: October 21, 2012

Time: 7:30 a.m.

State: MA

Description: morning near natural spring

Habitat: natural springs/coniferous/deciduous/river

VoxType: morning

Category: soundscape

Recorder: H2next

Mics: H2next

Sample rate: 48k 24 bit

Microphone pattern: Double MS stereo-2 channel; 150 °

Take# 1

Anthrophony: automobile traffic

Geophony: natural spring low/moderate winds in deciduous forest/falling leaves

Weather: cloudy

Temp: 43 Fahrenheit

Humidity:

Wind: moderate 6-18 mph

GPS: Lat/Lon: 42.6°N 72.63°W Elevation: 197 ft.

Recordist: Michael Gatonska

Notes: homemade Mic suspension with windjammer and gitzo tripod/monitored with headphones



<http://www.youtube.com/watch?v=U5fYj8fgXwo>

Michael Gatonska

[Re: Links Exchanges With Other Tree Groups](#)



Trees to Breathe Trees to Breathe founded in 2012 is a means to plant trees locally, educate people on the value of trees, and help fight deforestation around the world. Want to grow a tree? For every tree you grow from Trees to Breathe another will be planted in the rainforest. Trees are the lungs of the earth. We hope this site offers you much insight into the challenges we face and how you can make an immediate impact.

Facebook Page:

<http://www.facebook.com/TreesToBreathe/info>

[Re: Links Exchanges With Other Tree Groups](#)

by **Don** » Sun Dec 30, 2012 12:22 am

Ed- I am in travel status without access to all my resources, but my visit to England this summer featured visits to significant trees as part of a National Trust...I'll dig it up when I return to Alaska, if you'd like to add it...had great descriptive and locational data available in searchable database. Attaching one near our host's residence south of Colchester



My better half has seated herself in the buttressing of this English Oak (*Quercus robur*), for scale...she's 5'4" tall, and about the same armspan.

Don Bertollette

[Re: New Tallest Bay Laurel](#)

by **Don** » Sat Dec 29, 2012 11:56 pm

Zane-

Excellent find!

As an undergraduate Humboldt forestry student, I was happy just to encounter *Umbellularia californica*...a very handsome tree in most cases. The quickest ID cue was obtained by folding a leaf and smelling it...the traditional bay leaf that many of us grew up pulling out of stews and such. Same tree in Oregon is called the Oregon myrtle. It's also known as a Pepperwood, and has other common names I'm not immediately able to bring up. In Oregon, there used to be, and probably still is, roadside shops where you could purchase many items carved, shaped out of 'myrtlewood', known for its beautiful grain and durability.

Don Bertollette - President/Moderator, WNTS BBS

[Hawaii, Looking Back](#)

by **dbhguru** » Sun Dec 30, 2012 10:27 am

NTS, As I look out my window and behold a blanket of white, my recent Hawaii visit seems little more than a dream. Was I really there? Well, I have lots of images and a notebook full of tree

measurements to jog my aging memory. It was a productive trip. I probably measured somewhere between 150 and 200 trees while on the islands. By Will Blozan's standards, that's not much, nor by my own past standards, but the conditions under which measurements were obtained weren't ideal. Here are some images from inside an old growth ohia forest. The images were taken by Patricia Missler.









I went to the edge of one rainforest research area in Volcanoes National Park that is so dense that researchers follow a rope into the forest and take whatever measurements they need from within an arm's length or two of the rope. The forest gets between 200 and 300 inches of rain per year. There is no possibility of getting traditional tree measurements. The ohia forests are more open, so although challenging, measurements are possible.

My work relative to the natural forests of Hawaii is far from over. It looks like my friend Dr. Lee Frelich is interested in becoming involved in studying the old growth ohia forest that I will most likely be getting access to on private land. I have to develop a proposal and present it to the owners, which I will soon begin working on. The circle of support continues to grow. No rest for the retired.



The Hawaii trip has motivated me to rethink my priorities. With lots of projects on my plate (there always is), there is more than this old duffer can get done. So targeting my energy and time to the projects that hold the most promise of bearing fruit is the operative direction. I'm not yet sure of what should be removed from the list, but judging by results to date, one casualty will likely be the planned Blue Ridge Parkway old-growth guide. My time in the project thus far has been spent mostly in Virginia, and there aren't that many places along the Parkway that I could actually call outstanding or exemplary. North Carolina is better, but it is not clear if there is enough accessible old growth to justify a book. I have to be realistic.

This is not to say Monica and I won't return, and return often, to the Parkway, but more to develop site reports for the Parkway interpretive staff than to work on a book. I think I can be of most value

collecting data and turning it over to the Parkway people. Could I just go down there without pursuing a forest-tree mission? Absolutely not! There always has to be a mission.

Projects and activities that will definitely stay on my list include the October 9-13 rendezvous in Atlanta, working with the NP Service at Marsh-Billings-Rockefeller NHP, tree measuring in southwestern Colorado, the various projects here in Massachusetts, informal consulting with LTI, a chapter in Joan Maloof's follow-on book to 'Eastern Old Growth Forests', and of course, the Hawaii initiative. This is enough to keep me off the streets. Oh yes, one more project, the Hawaii adventure has caused me to think much more seriously about measuring the structurally complex forms of tropical trees. Bart Bouricius is interested in getting a handle on some of the growth forms he encounters, so I'm going to be devoting time to helping him measure

some of those unruly forms. I'll solicit help from the one and only Michael Taylor. The challenge clearly exceeds what I can do alone.

Two final images from hawaii. Trees there come in all forms.



Robert T. Leverett

[Redwood NP, CA Big Honkin Douglas Fir Trees](#)

by **mdvaden** » Sun Dec 30, 2012 2:05 am

At the moment, I'm typing from Crescent City at the Curly Redwood Lodge. Drove down last night, to spend a few days down here in the redwoods.

This morning, I had it in mind to try another top to bottom photo of Hyperion, but got enjoyably distracted by several huge Douglas fir trees not far from Lady Bird Johnson grove. These Douglas fir are not very tall, nor champions of sorts, but I was amazed to find trunks this big in the particular areas. In fact, I don't recall seeing any this wide since visiting 'Ol Jed a couple of years ago ... it was much wider though. But I can't remember the last time finding an 8 footer in the redwoods. Oregon yes, with Taylor and Hanuschik. But not in the redwoods. and then today, here's three 8 footers in just 2 hours: one closing-in on 9 ft..

The three I photograph and tape wrapped today were ..

1. 27 ft. circumference and 147 feet tall. 8.6 ft. diam.
The big limbs are about 24 in. diam.

2. 25 ft. circum. and 175 feet tall.

3. 26 ft. circum. and 178 feet tall.

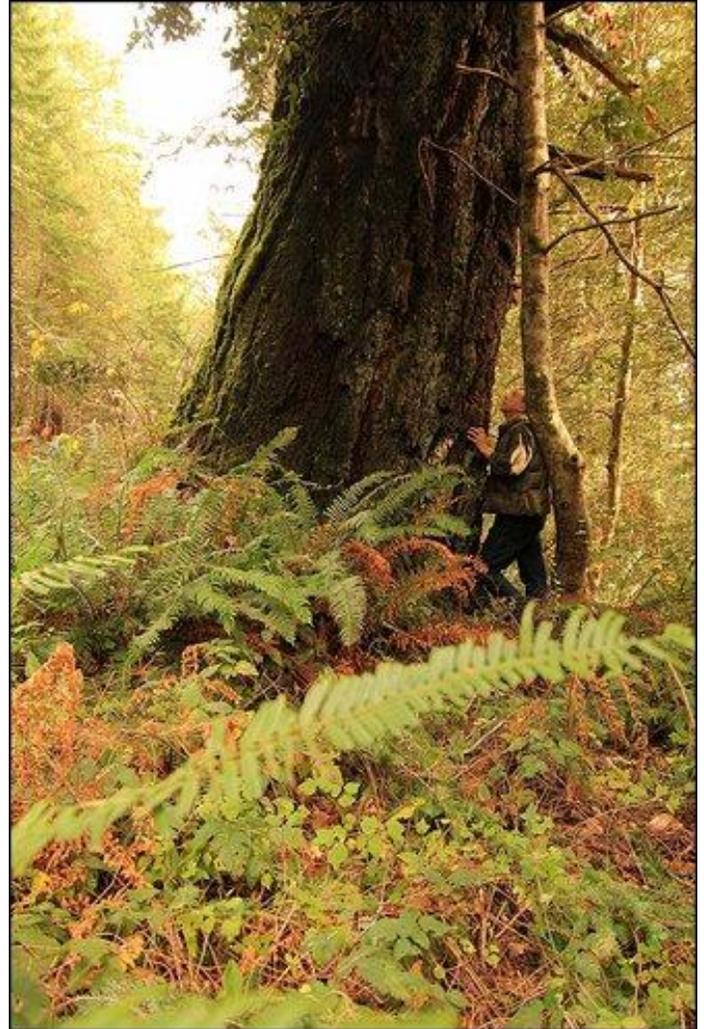
Finding these with moderate effort, leads me to believe that Redwood National Park has much more yet to be discovered.

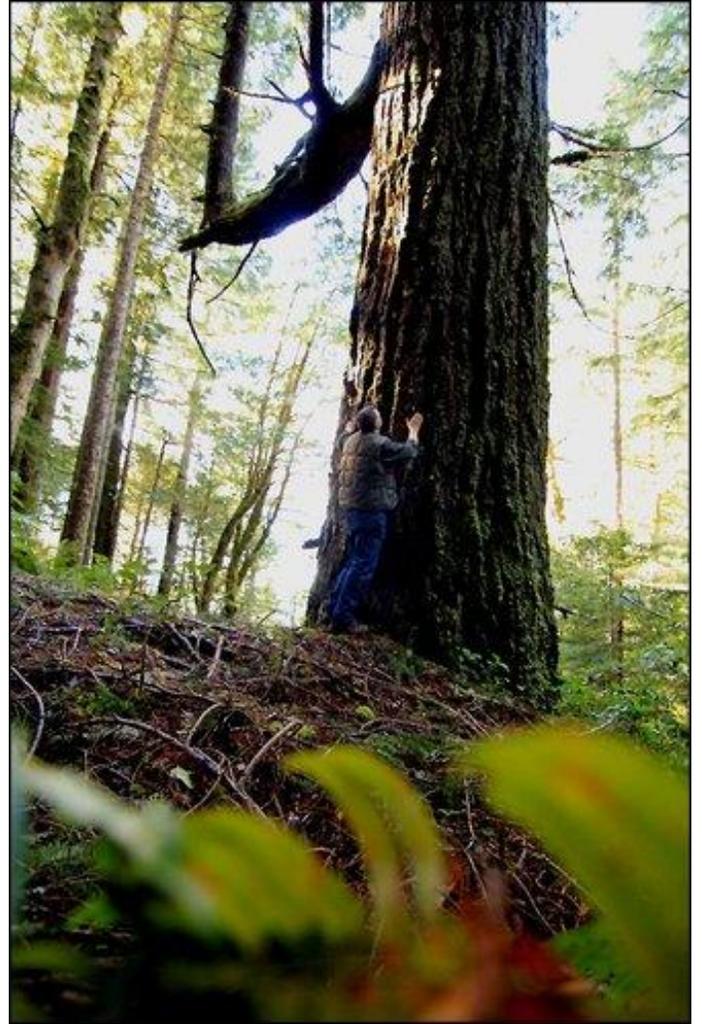
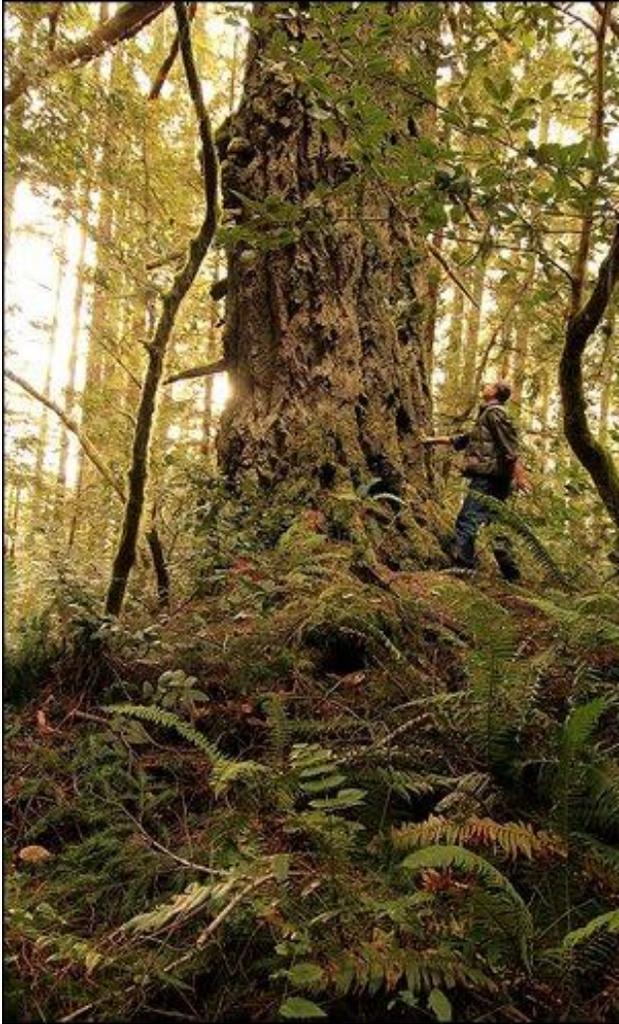
LOL ...

To keep track for reference, should call these 3 trees, **Shadrach, Meshach and Abednego** ...

:-)

Because there have lived through some heavy duty stuff.





M. D. Vaden of Oregon

[Tallest Tanoak, CA](#)

by **yofoghorn** » Sat Dec 29, 2012 7:05 pm

Tallest Tanoak - 160.02'. It was measured with Mike Hanuschik in March 2012 using the Impulse laser and discovered in December 2011. It stands on a remote hillside in the Forest of Nisene Marks State Park. My dad is standing at the base of the tallest tanoak. Nearby stands the third tallest tanoak. It's amazing how high up the first branches are on that tree.



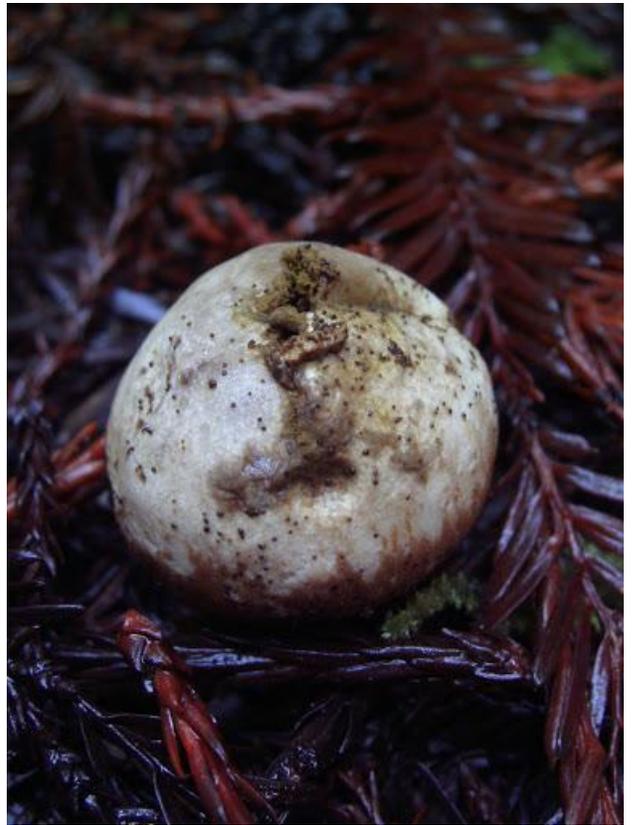
Zane J. Moore

[#13\) Re: Pictures of Fungi in the Redwood Forest, CA](#)

by **Mark Collins** » Sun Dec 30, 2012 9:53 pm

December 2012







[Mark Collins](#)

Posts: 60

Joined: Sat Apr 28, 2012 10:57 pm

Location: California

[Re: Pictures of Fungi in the Redwood Forest, CA](#)

by **mdvaden** » Mon Dec 31, 2012 12:08 am

Especially like the white one above. Nice.

From Jedediah Smith redwoods today ... one of various Birds Nest Fungi.



M. D. Vaden of Oregon

[St. Charles Borromeo Church Live Oaks, LA](#)

by **Larry Tucci** » Sat Dec 31, 2011 10:22 pm

NTS, St. Charles Borromeo Church is located on River rd., in the city of Destrehan Louisiana. The first Church built here in 1740 called Little Red Church burned in 1806 was rebuilt burned and rebuilt again in 1921. There are many early prominent figures from days past buried at the Church Cemetery. Two large Live Oaks were planted here in 1852 and 1858. The first is the Red Church Oak a multi-trunked tree that measured CBH-26'10", Height-72' and Spread-124.5' x 108'. The larger of the two trunks measured 18' 10". The second tree is the Rev. John F. Basty Oak it measured CBH-22' 2", Height-60' and Spread-108' x 108'. Both of these trees are on the Louisiana Live Oak Society Listing at number 671 and 673. The 1921 Church and grounds are very beautiful with many Live Oaks but these are the two largest. I spent several hours in this part of Louisiana today at 5 different locations and will report on several other larger trees in upcoming posts. Larry



Red Church Oak



Red Church Oak



Rev John F. Basty Oak





Rev John F. Basty Oak

[Re: Guilford Courthouse- Greensboro, NC](#)

by **bbeduhn** » Mon Dec 31, 2012 1:10 pm

Eli Dickerson wrote: 9' cbh Shortleaf!! That's awesome. I consider 7' cbh to be a large Shortleaf in Atlanta... and those date back to the Civil War or earlier.

Guilford Courthouse is a Revolutionary War site. There's a chance this tree is from that era, but I'd guess it's a little younger. It's right on the side of the oldest road at the site, about a quarter mile from the presumed site of the original courthouse. A seven footer is what I'd consider a large shortleaf as well.



The battlefield at Guilford Courthouse is also a beautiful forest. (NPS photo)

[Re: Cooper Creek WMA, GA](#)

by [eliahd24](#) » Sun Dec 30, 2012 11:33 pm

Made it back to Cooper Creek and the "Valley of the Giants" today. Boy oh boy was it chilly (for Georgia at least). Didn't do much measuring, but did get some neat pictures. Mostly just explored the old growth. Had a fantastic time. I'll try to post the pictures soon. Such a neat spot.

[Re: Cooper Creek WMA, GA](#)

by [eliahd24](#) » Mon Dec 31, 2012 6:58 pm

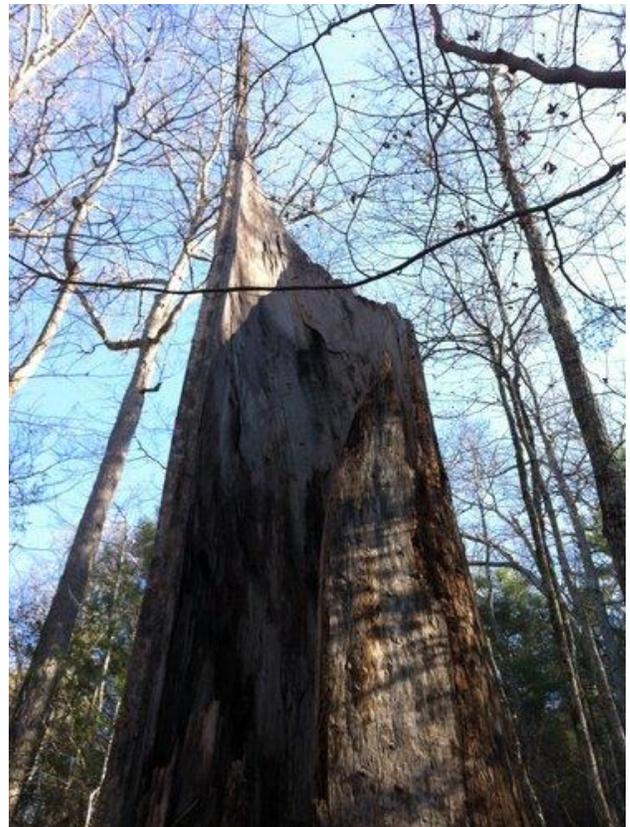
Yesterday was a really magical day in the woods. I took 2 fellow tree enthusiasts, a local ecology professor (and tree enthusiast) and my dog, Ophelia. It was cold with temps in the 20's/30's after a dusting of frozen precip the day before.

The hike in to the old growth at Cooper Creek is short and non-strenuous. The trailhead, however, is not marked. I think is a good thing. I'd hate to see this special spot get "Disneyfied" like many other natural areas.

One of the highlights of the trip was the "discovery" of a giant tuliptree shell. It was a stubby standing dead spire of the trunk. The cbh without any bark (and after some decay) was 13'7". The massive trunk was splayed out on the sloped hillside below, now covered with moss, lichen, fungi and serving as a nurse log for many other trees such as hemlock, white pine, basswood, etc

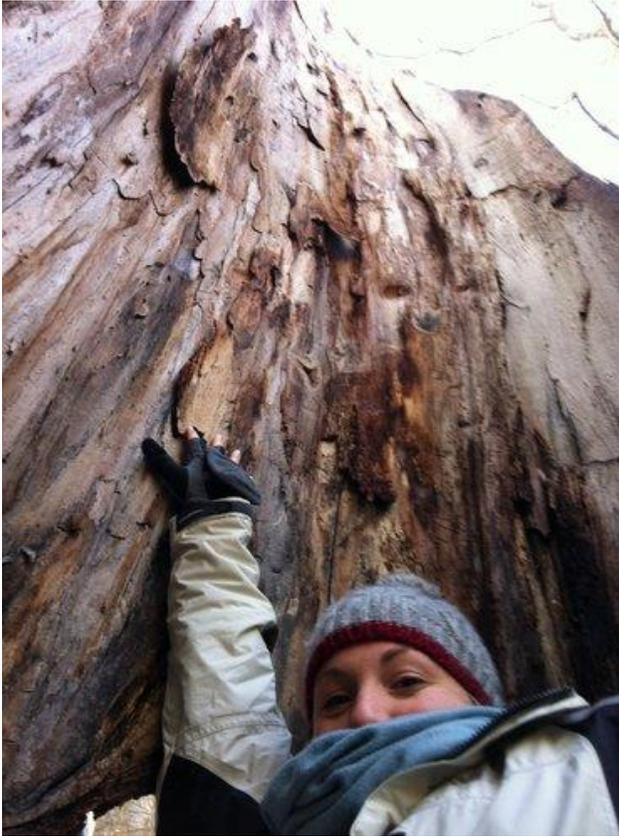


dusting of sleety snow



Dead LiTu spire_GORGEOUS

The cavity in the big standing snag was completely accessible and just amazing



Sara in the bowels of a dead tuliptree



LiTu inside_out



LiTu rings_TIGHT

I could count some of the rings in a vertical segment of exposed wood in the giant tuliptree- clearly growth was slow in the last few decades (or centuries)

There were scattered old oaks as well... mostly *Quercus alba*, but some gnarly *Quercus rubra* like this beauty



N. Red Oak stitch - 13' x 118'

FYI- my dog is a tall and leggy 85 pound puppy, so you can get an idea of the size of this tree



N. Red with 85lb pup for scale

The professor I brought along reminded me of one of the geographical/aesthetic indicators of old growth- "pits and mounds" on the forest floor...



Pits and Mounds_Old Growth indicator

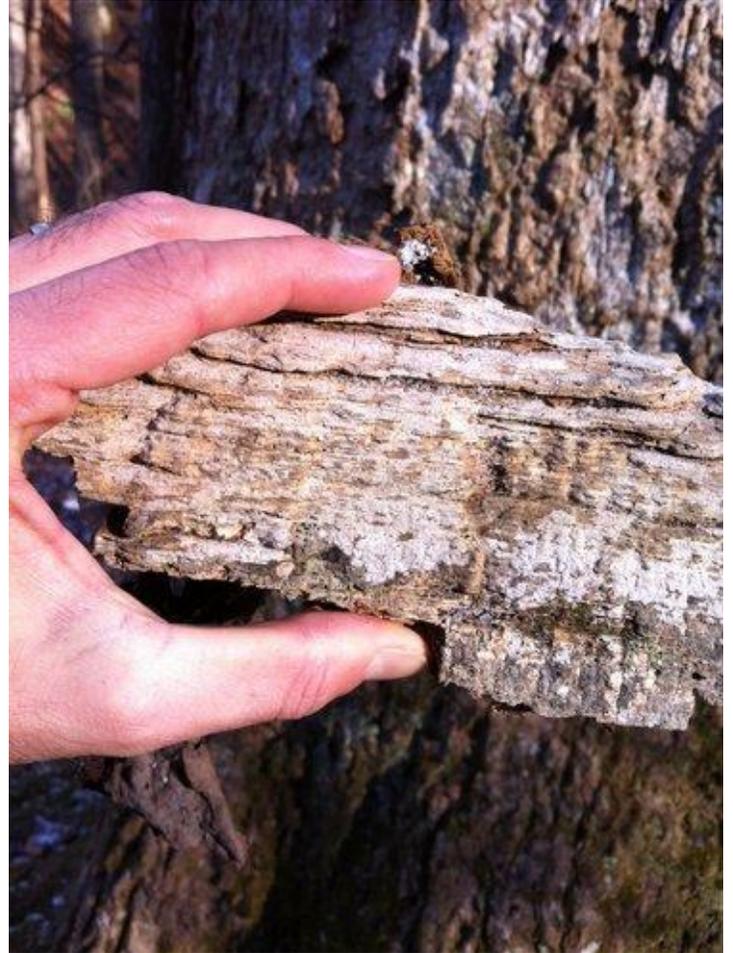
Besides *Liriodendron*, Basswood is the next most impressive species in this old growth cove.

Numerous giants exist and with a little more searching a state champion will be found here.



Multi-trunked Basswood_BIGGIE - 8'7" x 98'

Many of the tuliptrees had already shed what I refer to as their "primary bark", thus showing the neat balding and swirly patterns of the "secondary bark", however some of the giants still had deeply furrowed bark that was 6"+ thick. Here's moderately thick piece.



LiTu bark

And the gnarliest beast without a fully blown out top... also the point champion for the species at 390 Big Tree Points! What a beauty!



BIGGIE!

Happy New Year fellow NTSers,
~Eli

Frozen Forest, NC

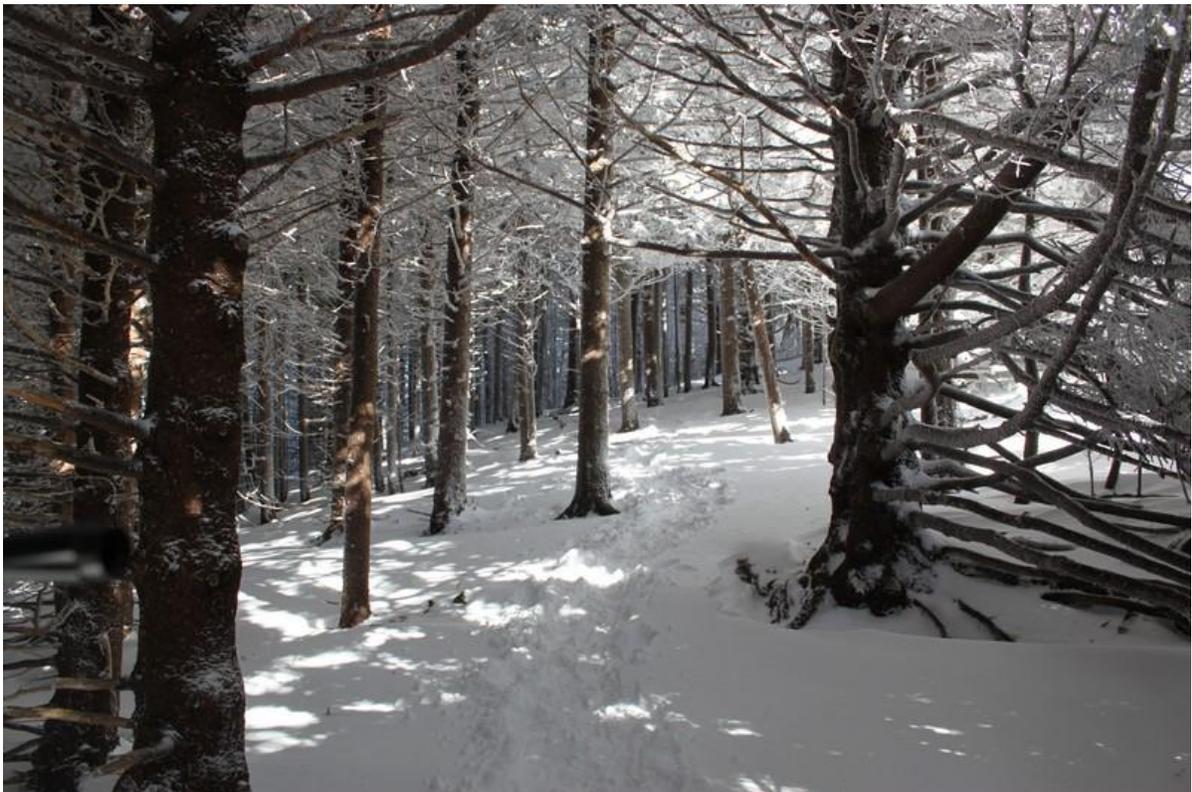
by [jamesrobertsmith](#) » Mon Dec 31, 2012 10:09 pm

Since it almost never snows around Charlotte anymore, I try to get up to the mountains when I can to see some actual winter weather. My wife and I drove up to Carver's Gap on the TN/NC border so that we could hike around the Roan Highlands. I didn't see any particular trees of note, but I did see a whole lot of actual snow, ice, and rime ice. The forest was transformed. They'd had well over a foot of snow, it was very cold (in the teens while we were there), with powerful gusting winds. It was great to actually experience winter again, if only for the day.



Rime ice really changes the spruce trees!







The snow was deepest in Carver's Gap where the wind had not blown any of it away.











Carole was going to hike with me through the forest in Carver's Gap, but the snow was too deep for her.

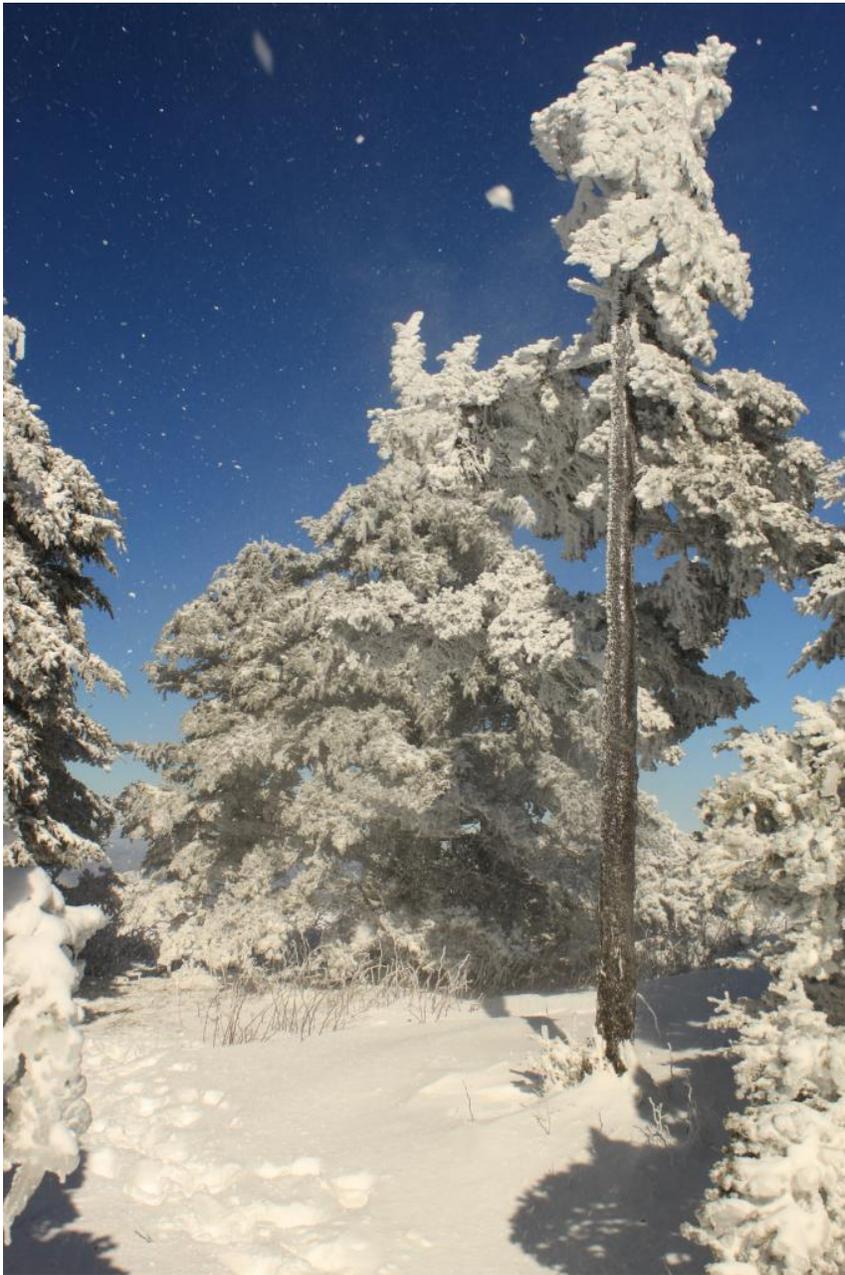


Little rimed tree on the summit of Round Bald.

Re: Frozen Forest

▣ by jamesrobertsmith » Mon Dec 31, 2012 10:59 pm

Thanks, Ed. I was surprised at how thick the rime was on everything. I wasn't quite expecting that, but I suppose the conditions had been perfect. The storm there started out as heavy rain, then the temperature plummeted. The snow we encountered was a very dry powder. We couldn't even make snowballs out of it! On the summit of Round Bald most of the snow had blown off and there was a coating a couple of inches thick of solid ice. I had a hard time keeping my footing on the top of the mountain. Encountered one snowdrift that was about six feet high. I was tempted to jump into it.



The rime ice was blowing off the trees in this stand of spruce near the summit.

[Re: Frozen Forest, Alaska](#)

by **Will Blozan** » Mon Dec 31, 2012 10:53 pm

JRS,

Awesome shots! I too, am in search of a winter experience and here in Alaska we are having it. Here are some shots from a heavy snow squall yesterday. The shots came out surrealistic due to the long zoom and density of snow. I am on the hunt for a champion black spruce and have some good leads. If all goes well I should have three Alaska State records before I return in January.

Will Blozan



External Links:

Ross Creek Giant Cedar Grove, MT

<http://www.youtube.com/watch?v=Hvx3K8bAyhY>

<http://www.libbymt.com/areaattractions/rosscreekcedars.htm>

Upon further review, giant sequoia tops a neighbor by Tracie Cone, Associated Press

http://www.dailydemocrat.com/news/ci_22113634/upon-further-review-giant-sequoia-tops-neighbor

Tree Power by C. Claiborne Ray, Published: December 3, 2012

<http://www.nytimes.com/2012/12/04/science/how-many-pounds-of-carbon-dioxide-does-our-forest-absorb.html>

American Chestnuts in Glen Providence Park!

Dec 3, 2012 by stephanie Friends of Glen Providence Park, Delaware Co., PA

<http://glenprovidencepark.org/2012/12/03/american-chestnuts-in-glen-providence-park/>

Mich. man planting clones of long-dead redwoods

by Jeff Barnard, AP Environmental Writer, Monday, December 3, 2012

<http://www.sfgate.com/news/science/article/Mich-man-planting-clones-of-long-dead-redwoods-4087869.php#ixzz2E9C9aX1J>

Antarctic Beech in the Border Ranges National Park, northern NSW, Australia - video

<http://www.youtube.com/watch?v=bLWCfb9MmAE>

'Prince William of Orange' oak at Teigngrace under threat, Teigngrace, UK

<http://www.ancient-tree-hunt.org.uk/news/Prince+William+of+Orange+Oak+at+Teigngrace+under+threat>

Romania moves to save virgin forests (2:02)

<http://www.reuters.com/video/2012/12/03/reuters-tv-romania-moves-to-save-virgin-forests?videoId=239583399&videoChannel=118065>

Indian tribal art form Madhubani to save trees by

Amarnath Tewary Madhubani, Bihar

<http://www.bbc.co.uk/news/world-asia-india-20422540>

Explore the Tropical Montane Cloud Forests of Monteverde, Costa Rica. Canopy in the Clouds brings it directly to the classroom

<http://www.canopyintheclouds.com/>

There was something of a church about the woods, the main ride like a nave at Waresley Wood, Cambridgeshire: The charcoal buds on the tips of the ash tree's twigs seemed now to be the stigmata of wounds yet to come. by Derek Niemann, The Guardian, Friday 30 November 2012 16.00 EST

<http://www.guardian.co.uk/environment/2012/nov/30/waresley-wood-cambridgeshire-church-broad-nave>

As the CORK is harvested in Sardinia – video

<https://www.youtube.com/watch?v=bqF3SGFigdY>

Savannah Ecosystems in Peril

http://www.enn.com/top_stories/article/45299

Late Miocene forests were 90% oak, pine, and hickory The Gray Fossil Site in Washington County, Tennessee

<http://www.sciencedirect.com/science/article/pii/S0034666712000772>

World's Big Trees Are Dying: Alarming Increase in Death Rates Among Trees 100-300 Years Old

<http://www.sciencedaily.com/releases/2012/12/121206162519.htm>

Make Your Own Mic Blimp

http://www.videomaker.com/article/14073?utm_source=enews&utm_medium=email&utm_content=article4_2012_tue_12_25&utm_campaign=traffic

More Links from the Facebook Native Tree Society Page:

Rob McBride - As a final 2012 fling...Top SHropshire Athlete breaks a world record! For the TREE Hundred Metres! (yes I hv finally flipped!)...
<http://www.youtube.com/watch?v=nCLfcD79-tE&feature=youtu.be>

Rebecca Tarbotton, head of Rainforest Action Network, dies at 39

<http://grist.org/politics/remembering-rebecca-tarbotton-head-of-rainforest-action-network-who-died-this-week/>

Tree Hugging Now Scientifically Validated

Written by The UpLift Editorial Staff on 28 December 2012. Posted in Natural Healing
<http://50.28.60.91/~upliftme/index.php/people/natural-healing/521-tree-hugging-scientifically-validated>

Breen Oakwood in Winter! Dick Glasgow posted to Native Tree Society I tried to do a David Attenborough with this one. ;-)

<http://www.youtube.com/watch?v=CoijtiZ9oeU>

***NEW* Science of Tree Rings web site** by -- Henri Grissino-Mayer

<http://web.utk.edu/~grissino/index.htm>

The Crowleasowe Oak, Ludlow, Shropshire

<http://www.youtube.com/watch?v=8ywSeoiEwgI&feature=youtu.be>

Lake Baikal, Siberia - Lake Baikal is the the worlds oldest and deepest lake. Experts say that it is approximately 25 million years old (possibly older) and has an average depth of 744.4 meters (2,442 ft).
<http://iliketowastemytime.com/2012/04/16/breathtaking-photos-of-frozen-lake-baikal-in-siberia-russia-23-pics>

As Forests Disappear, Examining the Mechanisms of Their Death

Los Alamos national Laboratory
<http://www.nytimes.com/2012/12/25/science/los-alamos-national-laboratory-studies-tree-deaths.html?pagewanted=1&r=3&>

The Spine of the Continent: Wildlife from Yukon to Mexico

http://fora.tv/2012/12/04/The_Spine_of_the_Continent_Wildlife_from_Yukon_to_Mexico

Named 'Medusa' by the Rangers at the Sherwood Forest National Nature Reserve...

<http://sherwoodforesthistor.blogspot.co.uk/2012/12/the-medusa-oak-icon-of-medieval.html>

Death in the forest: saving the lungs of the planet

Sandra Blakeslee December 26, 2012

<http://m.theage.com.au/environment/death-in-the-forest-saving-the-lungs-of-the-planet-20121226-2bvuk.html>

Old trees to be cut for Adelaide Oval car park

Alice Higgins, The Advertiser, December 26, 2012 10:30PM,

<http://www.adelaidenow.com.au/news/south-australia/old-trees-to-be-cut-for-adelaide-oval-car-park/story-e6frea83-1226543786786>

Environmental Outlook: "American Canopy"

Eric Rutkow (Rebroadcast) Thursday, December 27, 2012 - 10:06 a.m.

<http://thedianerehmsshow.org/shows/2012-12-27/environmental-outlook-american-canopy-eric-rutkow-rebroadcast>

If we save our trees, we save our souls

- We British identify with trees, and I hope ash dieback is a spur for all of us to think more deeply about them. By Hannah Betts, The Guardian, Tuesday 25 December 2012

<http://www.guardian.co.uk/commentisfree/2012/dec/26/save-trees-souls-british-identify-ash>

Ramblers anger over plan to remove hedge,

December 22, 2012 11:16Ramblers have hit out at plans to remove more than 11km of hedgerow from the south Shropshire countryside – claiming it would ruin the.. landscape.

<http://www.shropshirestar.com/news/2012/12/22/ramblers-anger-over-plan-to-remove-hedge/>

Bacteria May Have Been Responsible For World's Biggest Extinction Event

- Most of the world's ocean species died--and lots of land-based ones, too-- and it might have been the fault of a microbe. (Wnd of Permian Extinction Event)

<http://m.popsoci.com/science/article/2012-12/bacteria-may-have-worsened-worlds-deadliest-extinction-event-producing-too-much-methane>

How shrubs are reducing the positive contribution of peatlands to climate

<http://www.sciencedaily.com/releases/2012/12/121223180005.htm>

Tree that weeps dragons blood among new discoveries

A tree with "dragons blood" running beneath its bark, a rare mountain top snowdrop and a critically-endangered orchid are among more than 60 new species discovered by botanists in the past year. The Telegraph, Richard Gray, Science Correspondent, 12:33PM GMT 23 Dec 2012

<http://www.telegraph.co.uk/earth/earthnews/9762699/Tree-that-weep-dragons-blood-among-new-discoveries.html>

Fungus threatens thousands of trees along famed French canal

- The picturesque Canal du Midi in southern France is a recognised UNESCO World Heritage site. But the 42,000 plane trees which run along its sides may have to be chopped down due to the spread of the infectious Ceratocystis platani fungus.

<http://www.bbc.co.uk/news/world-europe-20815665>

River Red Gum is the state's largest tree, NSW, Australia arborists say,

Science Reporter Clare Peddie, adelaidenow, December 17, 2012 10:00PM <http://www.adelaidenow.com.au/news/south-australia/a-giant-hidden/story-e6frea83-1226538671792>

Human history preserved in tree rings of prehistoric wooden wells,

First farming communities in Europe were skilled carpenters, made water wells out of wood. 19-Dec-2012,

http://www.eurekalert.org/pub_releases/2012-12/plos-hhp121412.php

Meg's Wild and Wonderful World of Science

From the Spring 2012 issue of NC State Alumni Magazine: Meg Lowman plans to take thousands of schoolchildren into the Amazon to study the rain forest. She wants to take them to Ethiopia, where she works to preserve what remains of the rain forest there. She also wants them to work side-by-side with other scientists doing [...]

http://www.alumni.ncsu.edu/s/1209/images/editor_documents/magazine/lowman_reducsize.pdf

Guide to Frost

<http://www.its.caltech.edu/~atomic/snowcrystals/frost/frost.htm>

Old Growth Forest Network

is wrapping up a very successful first year. Thank you for 'liking' us. We like you too. Here is the link to our end of year newsletter. Please visit the link to sign up for future newsletters if you are not on our mailing list already. Onward together to 2013!

http://campaign.r20.constantcontact.com/render?llr=7vgxd4jab&v=001laauDGMXfkUPrrWXYL9yCUMsjdCFNmHdVSEZKFJgodf-UoloIObAzGxR6Zrio0NywIqelO5yGZsp8v_D95xbQYNd80JGyhmXGkK5FIQLLoD9tcofNxt1gjHTa2Xd0Vdc_G_4FvBY4%3D

Help Conserve a Church Forest

<http://treefoundation.org/2012/12/16/help-conserve-a-church-forest/>

A Photographic Study of One Tree Over Many Years and Seasons

by Michael Zhang · Dec 16, 2012 <http://www.petapixel.com/2012/12/16/a-photographic-study-of-one-tree-over-many-years-and-seasons/>

E. O. Wilson's Global Town Hall - December 13, 2012

http://www.livestream.com/naturalsciences/video?cliPid=pla_26ebb425-91c6-4c78-b174-fdc44dedd422

6,000 Insect Species Found in Three Acres of Rain Forest | Wired Science | Wired.com

<http://www.wired.com/wiredscience/2012/12/panama-bug-count/>

Nature Nurtures Creativity After Four Days of Hiking

<http://www.sciencedaily.com/releases/2012/12/12121212204826.htm>

French Trees

<http://www.flickr.com/photos/14919622@N02/collections/72157617790792468/>

Video of a city-sized iceberg breaking off from a glacier will blow your mind by Jess Zimmerman

<http://grist.org/list/this-video-of-a-city-sized-iceberg-breaking-off-from-a-glacier-will-blow-your-mind/>

Borneo Tree Climbing by CornellTreeClimbing

<http://www.youtube.com/watch?v=2xkD36EY3t0&feature=youtu.be&hd=1>

A year in the branch office, December 9, 2012 by Andrew Darby IT'S lonely at the top for Miranda Gibson. A year ago she climbed a gum tree on the cold fringe of the Tasmanian wilderness and promised to stay until it was forever safe from logging. That vow means that since then she has not felt solid ground under her feet. Every day and night she has been 60 metres up in the crown of the tree, through rain, snow and wind. Video - Read more: <http://www.theage.com.au/victoria/a-year-in-the-branch-office-20121208-2b2xa.html#ixzz2GkY5epen>

Cloud Forest Trees Drink Water Through Their Leaves Dec. 12, 2012 — Tropical montane cloud forest trees use more than their roots to take up water. They also drink water from clouds directly through their leaves, University of California, Berkeley, scientists have discovered.

<http://www.sciencedaily.com/releases/2012/12/1212123104228.htm>

Fallen Trees Create Learning Opportunity

December 10, 2012 Read more:

<http://njtoday.net/2012/12/10/photo-fallen-trees-create-learning-opportunity/#ixzz2GkYccSJf>

Trees Are Freaking Awesome! by Ruth Hamberg on November 14, 2012 at 10:07am

http://thegrove.americangrove.org/video/trees-are-freaking-awesome?xg_source=msg_mes_network#.UOMrJK5p7it

China at the centre of 'illegal timber' trade -

Environmental groups accuse ports and cities of being a centre for illegally logged wood despite international conservation treaties. by Laurence Caramel and Harold Thibault, Guardian Weekly, Tuesday 11 December 2012 05.13 EST

<http://www.guardian.co.uk/environment/2012/dec/11/china-illegal-logging-deforestation?intcmp=122>

Virginia Tech Tree ID App

https://play.google.com/store/apps/details?id=org.pottsoftware.agps21&feature=search_result#?t=W251bGwsMSwyLDEsIm9yZy5wb3R0c3NvZnR3YXJlMFnCHMyMSJd

The blood-red brilliance, mystery and melancholy of the hawthorn - Wenlock Edge: Inside each pillar-box-red haw are seeds in which the last year is folded like a bus ticket to the next.

by Paul Evans, The Guardian, Tuesday 11 December 2012 15.59 EST

<http://www.guardian.co.uk/environment/2012/dec/11/wenlock-edge-hawthorn-mystery-melancholy>

Julia Butterfly sends a message of support

<http://www.youtube.com/watch?v=QRsS-7sqgk&feature=share>

Part 1 - Julia Butterfly Hill - Adventures In Treesitting by michaelofthemountain

<https://www.youtube.com/watch?v=FyLiOnmBZLw>

Michael Mann's Hockey Stick, The climate scientist tells his story and explores the role of skepticism in science by Rudy M. Baum "Climate-change deniers like to compare themselves to great scientists like Galileo or Darwin who challenged the scientific orthodoxy of their times—the current orthodoxy being, of course, the belief that humans are altering Earth's climate. Skepticism, they maintain, is central to science. "True skepticism, however," Mann writes, "demands that one subject all sides of a scientific contention or dispute to equal scrutiny and weigh the totality of evidence without prejudice. That should not be conflated with contrarianism or denialism, which is a kind of one-sided skepticism that entails simply rejecting evidence that challenges one's preconceptions. Unfortunately, the term skeptic has at times been coopted by those who are not skeptics at all, but are instead contrarians or deniers, predisposed to the

indiscriminate rejection of evidence supporting a human influence on climate.”

<http://cen.acs.org/articles/90/i50/Michael-Manns-Hockey-Stick.html>

French airport protesters seek safety in the trees -

Dairy farmers, locals and eco-warriors face eviction over plans to build second airport in Nantes on top of precious woodland, Angelique Chrisafis in Notre-Dame-des-Landes, guardian.co.uk, Monday 10 December 2012 07.41 EST,

<http://www.guardian.co.uk/world/2012/dec/10/french-airport-protesters-squat>

Qatar's mangroves: why they matter to climate change 8 Dec 2012 by Kate Evans

<http://blog.cifor.org/13101/qatars-mangroves-why-they-matter-to-climate-change/#.UOMtcK5p7jt>

Loggers leave Cortes ... but promise to return by

Brian Kieran - Campbell River Mirror, Published: December 07, 2012 3:00 PM, Updated: December 07, 2012 3:19 PM

<http://www.campbellrivermirror.com/news/182604271.html>

Political leadership needed to resolve Cortes

Island's "War in the Woods" Conservationists renew call for BC Liberals to commit to restoring and expanding a "BC Park Acquisition Fund" to purchase and protect endangered forests on private lands. by Ancient Forest Alliance, posted: Dec 6th, 2012.

<http://www.vancouverobserver.com/sustainability/political-leadership-needed-resolve-cortes-island%E2%80%99s-%E2%80%9Cwar-woods%E2%80%9D>

Stopping by woods on a snowy evening as read by Robert Frost.

<http://www.youtube.com/watch?v=hfOxdZfo0gs>

World's Big Trees Are Dying: Alarming Increase in Death Rates Among Trees 100-300 Years Old

The largest living organisms on the planet, the big, old trees that harbour and sustain countless birds and other wildlife, are dying, Dec. 6, 2012

<http://www.sciencedaily.com/releases/2012/12/121206162519.htm>

World's oldest and biggest trees 'dying out'.

Scientists have warned of an alarming increase in the death rates of the largest living organisms on the planet, the giant, old trees that harbour and sustain countless birds and wildlife.

<http://www.telegraph.co.uk/earth/environment/9728797/Worlds-oldest-and-biggest-trees-dying-out.html>

Dying aspen trees sound alarm for world's forests,

16:48 05 December 2012 by Bob Holmes.

<http://www.newscientist.com/article/dn22589-dying-aspen-trees-sound-alarm-for-worlds-forests.html>

Orchid collecting expedition to Los Cedros

Reserve, Ecuador January 1993 by Morley Read

http://www.youtube.com/watch?v=FFKv2SEdv60&feature=youtube_gdata_player

ORCHIDS OF ECUADOR, VILLONACOPARK

http://www.youtube.com/watch?v=WrdJfRliWp8&feature=youtube_gdata_player

As the CORK is harvested in Sardinia

<https://www.youtube.com/watch?v=bqF3SGFigdY>

Savannah Ecosystems in Danger, by Jeremy Hance,

MONGABAY.COM, More from this Affiliate

Published December 4, 2012 04:45 PM

http://www.enn.com/top_stories/article/45299

American Chestnuts in Glen Providence Park!

Dec 3, 2012 by stephanie

<http://glenprovidencepark.org/2012/12/03/american-chestnuts-in-glen-providence-park/>

Antarctic Beech in the Border Ranges National

Park.wmv Published on Dec 4, 2012 Video of a

beautiful coppice stool of Antarctic Beech visited in 2012 in the very lovely Border Ranges National Park northern NSW

<http://www.youtube.com/watch?v=bLWCfb9MmAE>

'Prince William of Orange' oak at Teigngrace

under threat One of Devon's oldest oaks – the Prince William of Orange oak at Teigngrace - is suffering and faces an uncertain future, according to local ATH recorder Spencer Keys.

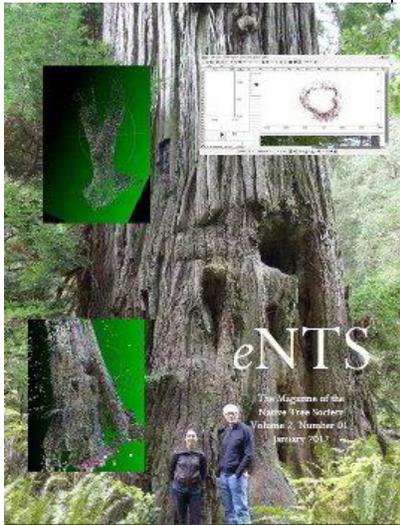
<http://www.ancient-tree-hunt.org.uk/news/Prince+William+of+Orange+Oak+at+Teigngrace+under+threat>

Artists in India's Bihar state are painting images of Hindu deities on trees to save them from being cut down and to protect the environment! Check out more about this campaign to save these trees here:
<http://ow.ly/fNkks>

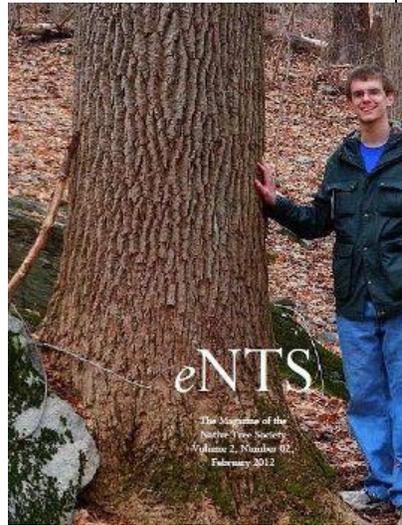
Romania moves to save virgin forests (2:02) Dec. 3 - Romania's dwindling virgin forests have been thrown a lifeline with a new law protecting them from logging. The forests are among the oldest ecosystems in Europe, but have been decimated by the cash-strapped country since Communism fell more than a decade ago. Rob Muir reports.
<http://www.reuters.com/video/2012/12/03/romania-moves-to-save-virgin-forests?videoId=239583399&videoChannel=74>

Ponderosa Fire & Dr Cajun James by SierraPacVideo
<http://www.youtube.com/watch?v=rZOcMDgmSsM&feature=plcp>

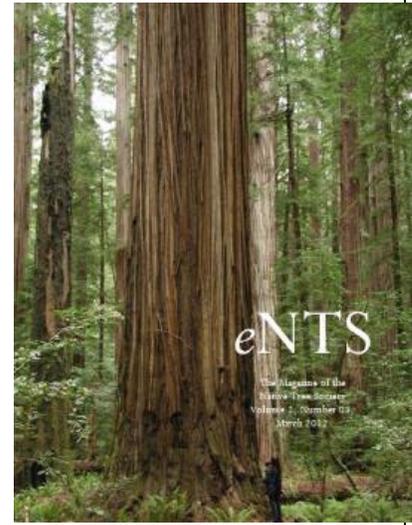
Back Issues of eNTS: The Magazine of the Native Tree Society



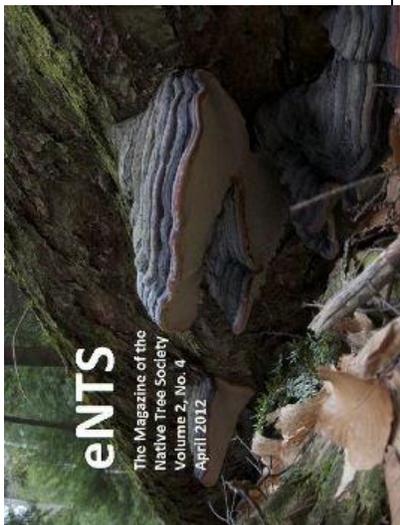
[eNTS Magazine January 2012](#) 21 MB
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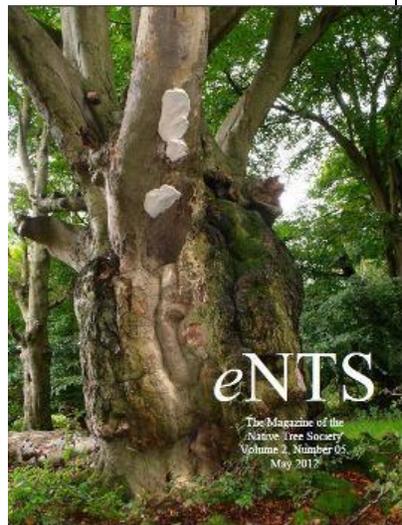
[eNTS Magazine February 2012](#) 20.5 MB
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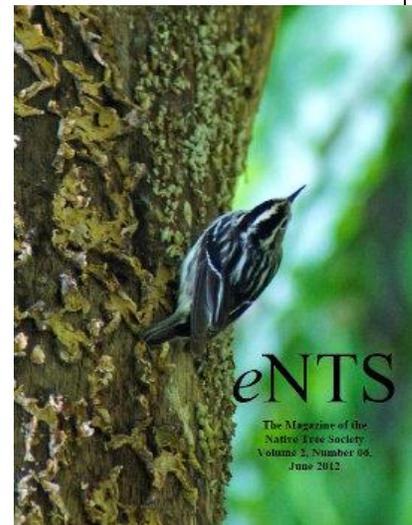
[eNTS Magazine March 2012](#) 21 MB
Broken into Four Parts: [A](#), [B](#), [C](#), [D](#)



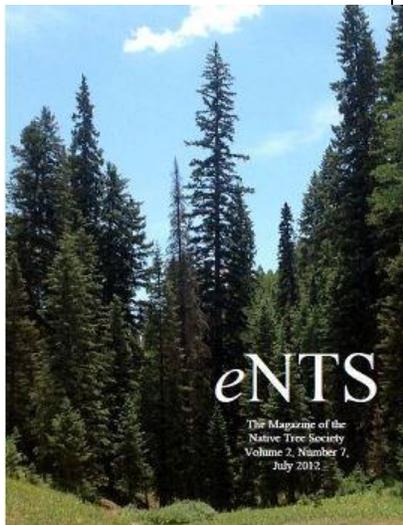
[eNTS Magazine April 2012](#) 17.6 MB
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[eNTS Magazine May 2012](#) 16.6 MB
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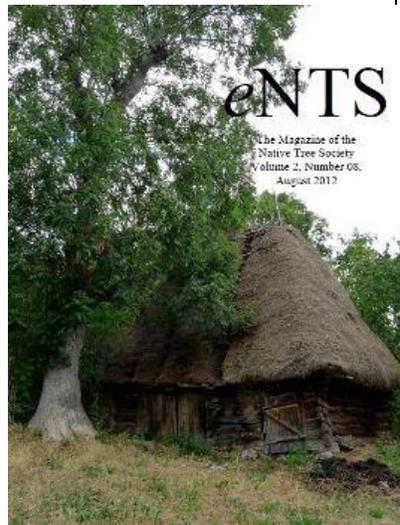


[eNTS Magazine June 2012](#) 8.7 MB



[eNTS Magazine July 2012](#) 10 MB

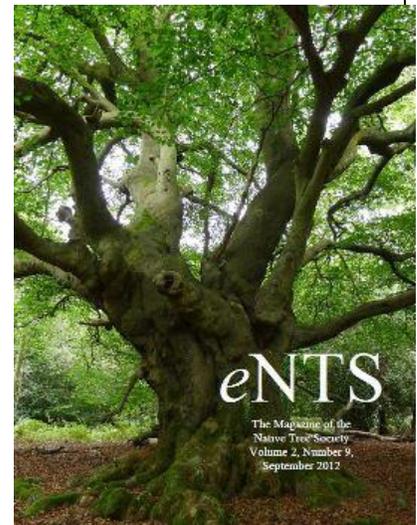
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[eNTS Magazine August 2012](#) 13.3

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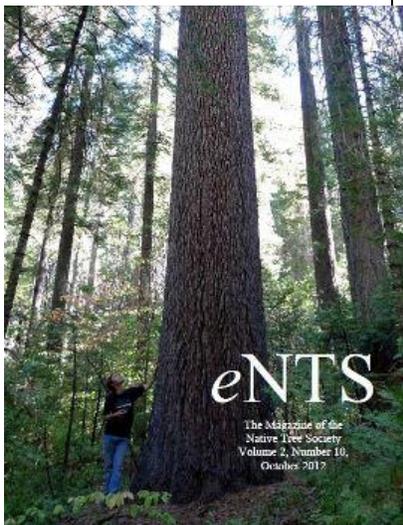
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[eNTS Magazine September 2012](#) 13

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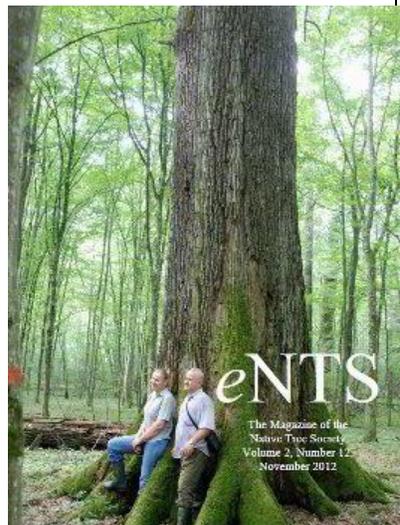
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[eNTS Magazine October 2012](#) 18

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[eNTS Magazine November 2012](#)

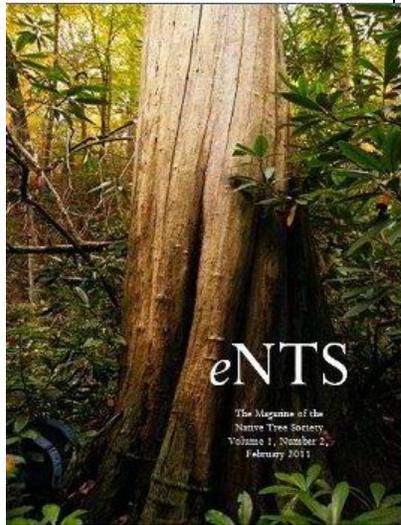
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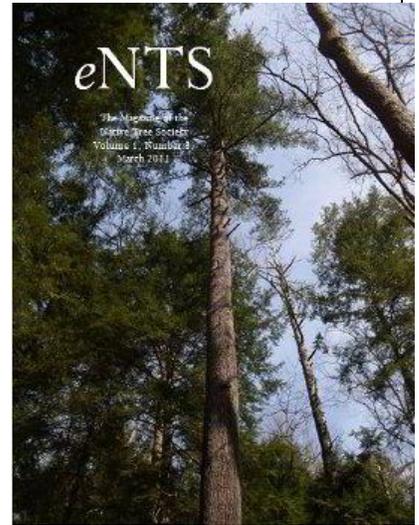
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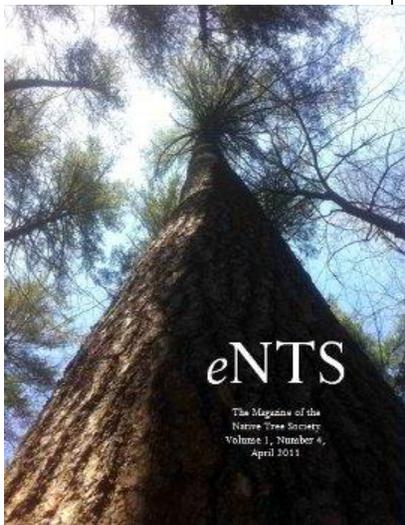
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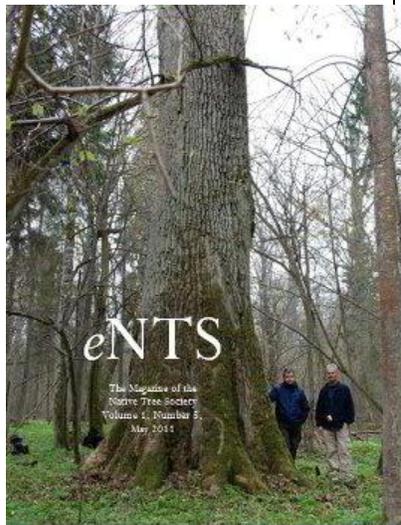
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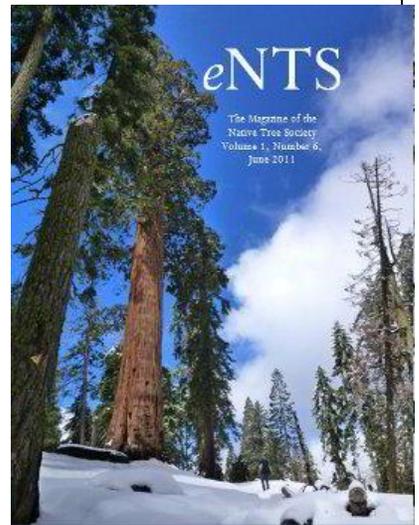
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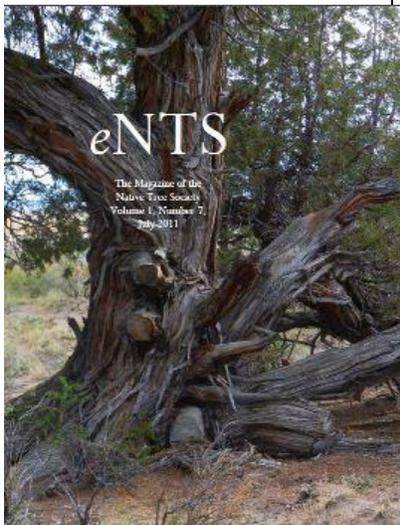
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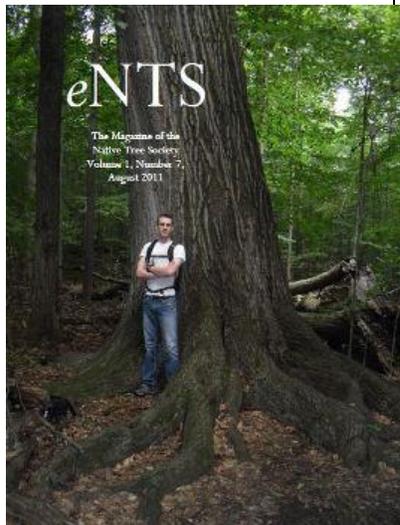
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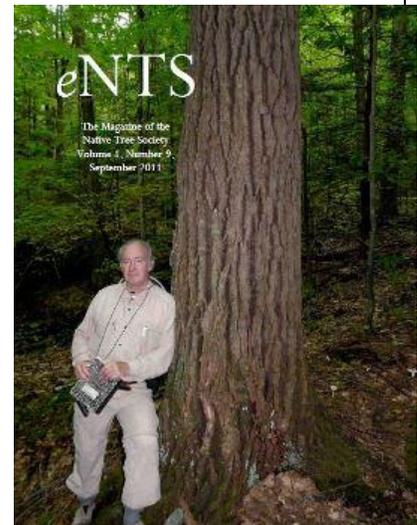
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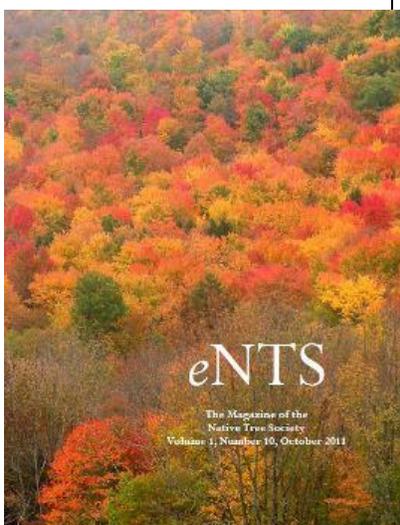
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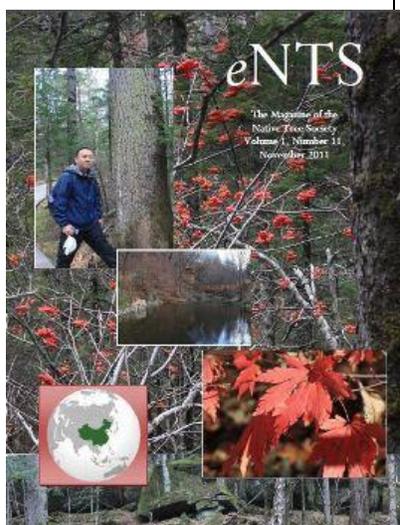
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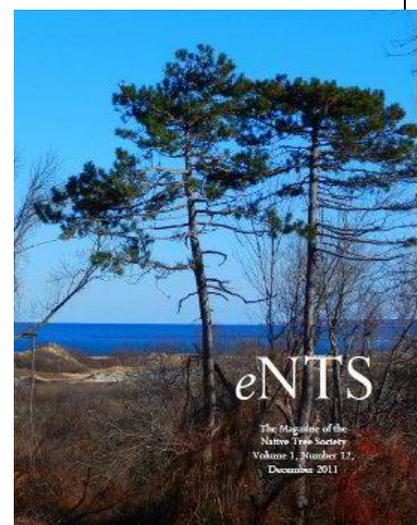
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About: eNTS: The Magazine of the Native Tree Society

This magazine is published monthly and contains material that is compiled from posts made to the NTS BBS. <http://www.ents-bbs.org> It features notable trip reports, site descriptions and essays posted to the BBS by NTS members. The purpose of the magazine is to have an easily readable and distributable magazine of posts available for download for those interested in the Native Tree Society and in the work that is being conducted by its members.

This magazine serves as a companion to the more formal science-oriented *Bulletin of the Eastern Native Tree Society* and will help the group reach potential new members. To submit materials for inclusion in the next issue, post to the BBS. Members are welcome to suggest specific articles that you might want to see included in future issues of the magazine, or point out materials that were left from a particular month's compilation that should have been included. Older articles can always be added as necessary to the magazine. The magazine will focus on the first post on a subject and provide a link to the discussion on the website. Where warranted later posts in a thread may also be selected for inclusion.

Edward Frank – Editor-in-Chief