



Oaks of the World

from California to Hokkaido

Philippe de Spoelberch,

Arboretum Wespelaar

IDS Webinar

24 November 2021

Western United States





Lithocarpus densiflorus

Lithocarpus densiflorus - Prairie Creek Redwood Park - IDS in California 2010.0707



Lithocarpus densiflorus –
Pigmy Forest, Mendocino

A photograph of a large, gnarled tree trunk in a forest. The tree is the central focus, with its thick, textured bark and spreading branches. Sunlight filters through the dense green foliage, creating dappled light on the ground. The forest floor is covered with rocks and low-lying vegetation. The overall scene is a lush, sun-dappled woodland.

Quercus chrysolepis

-Quercus chrysolepis - Ahwahnee, Yosemite - 2010.0713



Quercus chrysolepis
Section *Protobalanus*

Ahwahnee Hotel,
Yosemite National
Park

IDS - 2010.0713





Quercus chrysolepis Ahwahnee Hotel, Yosemite National Park



Quercus vaccinifolia

Quercus vaccinifolia - Tenaya lake, Yosemite - 2010.0712











Quercus gambelii

Quercus gambelii - Ghost Ranch, New Mexico -
2003.0630 - IDS in Rocky Mountains -



Quercus gambelii - Animas river valley, 2500m, - IDS in Rocky Mts - 2003.0707 -



Quercus gambellii - Mesa Verde - IDS in Rocky M - 2003.0708



Quercus douglasii

Quercus douglasii - California plains, road to Yosemite - Oct 1998



Quercus douglasii - Quarryhill BG - 2010.0701



Quercus lobata

Quercus lobata - Quarryhill BG - 2010.0701



Quercus kelloggii

Quercus kelloggii - Yosemite N.P. - 1998.1002







Quercus kelloggii, *Calocedrus decurrens* - Mount Lassen to Lake Tahoe - 2010.0709

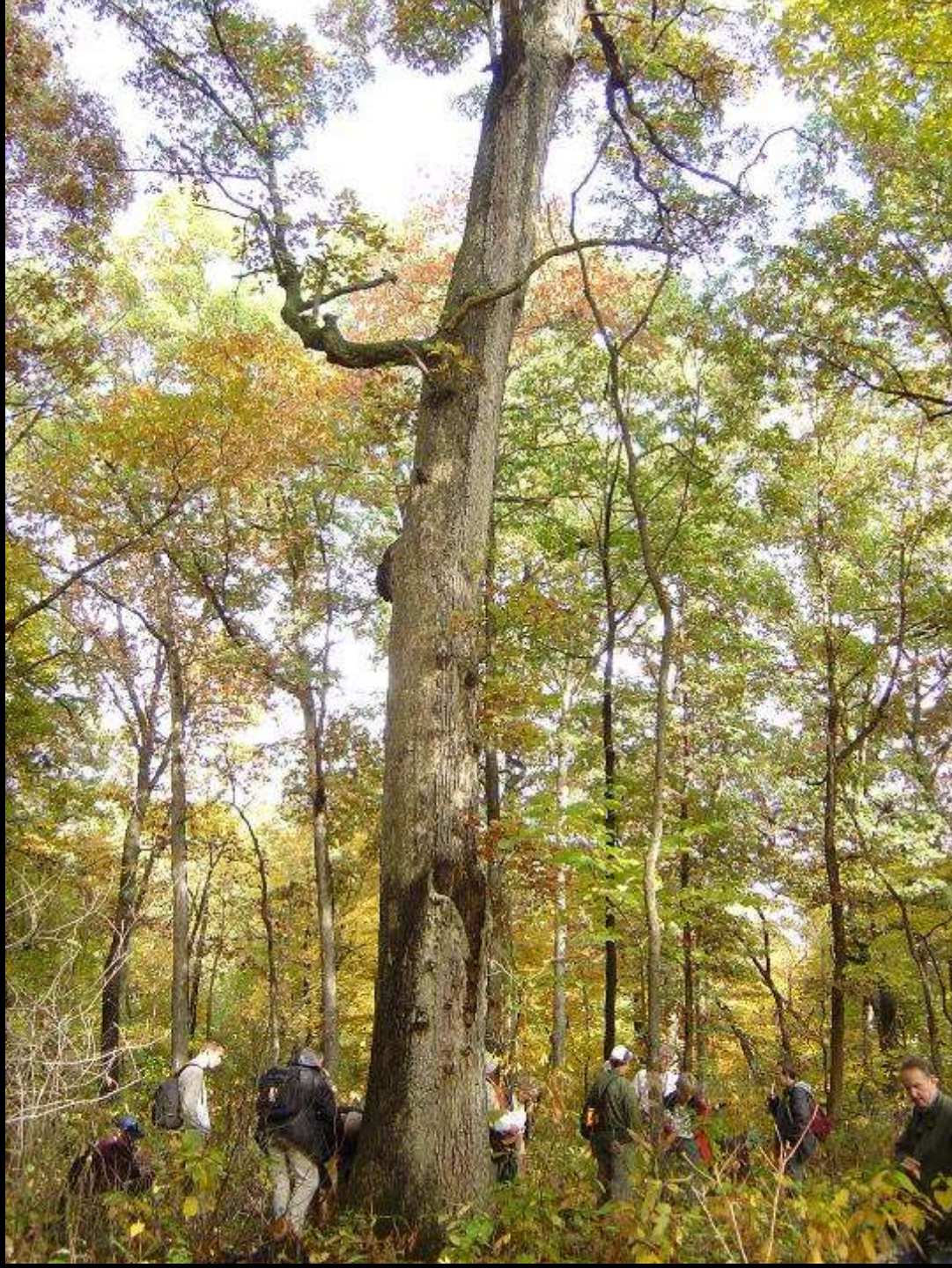
Eastern North America





Quercus alba

Quercus alba - born 1755, on Gudgel road , Athens, Illinois USA



Quercus alba
450 years old,
Carpenter Nature Reserve,
Illinois, USA



Quercus alba - 450 years old, Carpenter Nature Reserve, Illinois, USA



Quercus alba - Oak Ridge Cemetery, Springfield, Illinois -



Quercus alba -
Winterthur
(Delaware)-
2011.0502



Quercus alba - Native American trail marker, Athens, Ill.,_



Quercus alba - Martha's Vineyard, Peaked Hill trail - 2007.0623



Quercus alba - Martha's Vineyard, - 2007.0623



Quercus alba - 1995 - Arboretum Wespelaar - 84370 - esv - 209



Quercus alba - Arb. Wespelaar 84370-esv-209 - 2016.1019



Quercus
bicolor

Quercus bicolor - Scott Arboretum, Swarthmore College - 2011.0501



Quercus bicolor - Von Gimborn Arboretum, Netherlands - 2004 -



Quercus bicolor – Arboretum Wespelaar - 83121-hil-216 - 2012.0623





A large, mature Quercus macrocarpa tree dominates the center of the image. The tree has a thick, gnarled trunk and a dense canopy of green leaves. In the background, a white, two-story house with a grey roof and a covered porch is visible. The house has dark shutters and a small arched entrance. The foreground is a well-maintained green lawn. A few people are scattered around the base of the tree, providing a sense of scale. The sky is overcast and grey.

Quercus macrocarpa

Quercus macrocarpa 613cm - Knudsen Property, South west of Bloomington, Ill.,-













Quercus lyrata - Lincoln's New Salem Historic site, Illinois - 2004.1015



Quercus lyrata - Lincoln's New Salem Historic site, Illinois - 2004.1015



Quercus rubra

Quercus rubra – Geographical arboretum Tervuren , plot 12 - 2011.1102



Quercus rubra 'Aurea' - *Cornus florida* 'Sweetwater' - Herkenrode - 2006.0511 -



Quercus velutina

Quercus velutina – Olmenhof, Belgium - BD.6818 - 1990.10 -





A group of about seven people are gathered on a dirt trail in a wooded area during autumn. The trees have yellow and orange leaves. A large, thick-trunked tree is prominent on the left. The background shows a hazy landscape with rolling hills. The text 'Quercus stellata' is overlaid in white serif font across the middle of the image.

Quercus stellata

Quercus velutina, Quercus stellata - Inspiration Point trail_Pine hill area_Shawnee N.F._



Quercus velutina, Quercus stellata - Inspiration Point trail_Pine hill area_Shawnee N.F._



Quercus coccinea

Quercus coccinea aff. – Colonel Ashley's House, Mass. - 1989.10



Quercus coccinea aff.
(not *rubra*)

Hemelrijk Arboretum
nr 13585 in plot 585 -

2009.1025



Quercus coccinea 'Splendens' – Arboretum Wespelaar 91093 - 2008.1017



Quercus coccinea 'Splendens' – Wespelaar - 88155-esv-572 - 2007.1020 -



Quercus palustris

Quercus palustris – Parc de Wespelaar - AA300-div-578 - 2011.1031



Quercus palustris plantation 1933 -
Arboretum Wespelaar





Quercus palustris –Herkenrode - 96077 - 31 October 2011



A large, spreading tree with dense foliage in shades of reddish-brown and orange, characteristic of autumn. The tree is set in a grassy field with other trees in the background under a clear blue sky. The text "Quercus acerifolia" is overlaid in white serif font across the center of the image.

Quercus acerifolia

Quercus acerifolia Morton Arboretum, Lisle, Ill. _702-50



Quercus acerifolia -
Hillier's Arboretum-

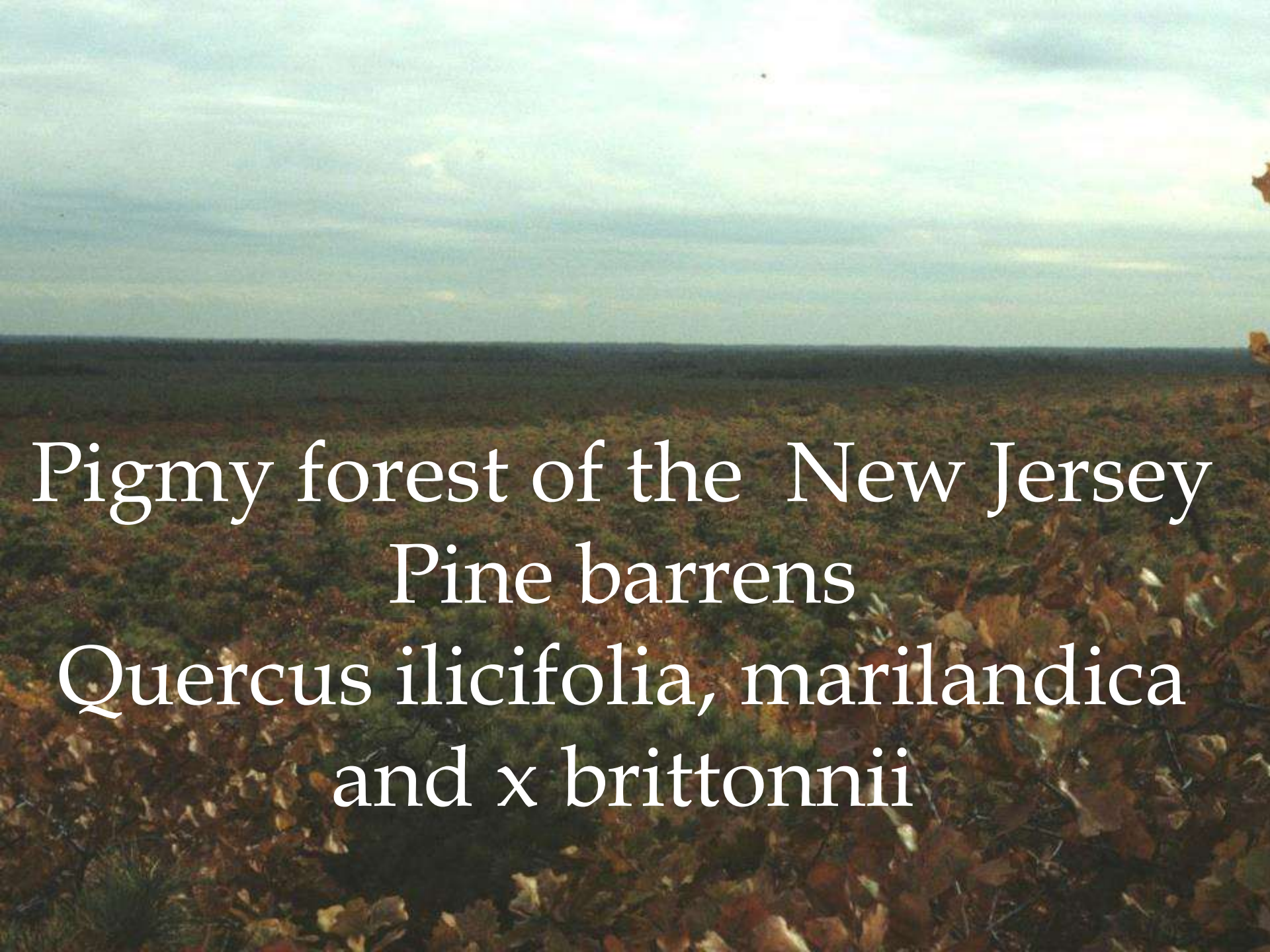




Quercus ilicifolia

Quercus ilicifolia - Echo Lake, N. Conway, N.H - BDB in New England - 1997.1013 -





Pigmy forest of the New Jersey
Pine barrens
Quercus ilicifolia, *marilandica*
and *x brittonii*



Pinus rigida, *Quercus marilandica* - Pigmy Forest - New Jersey Pine Barrens -18 Oct 1988



Quercus marilandica, *Gaylussacia*, *Gaultheria* aff. - New Jersey Pine Barrens



Quercus ilicifolia , *marilandica* , hybrid x *brittonii* - New Jersey Pine Barrens



Quercus ilicifolia , *marilandica* , hybrid x *brittonii* - seedlings ex New Jersey
Pine Barrens, growing at Arboretum Wespelaar



ilicifolia

x *brittonii*

marilandica



Quercus x brittonii (*ilicifolia* x *marilandica*) - 93297-wld-222 -



Quercus x brittonii (*ilicifolia* x *marilandica*) - 93297-wld-222 -



Que



Quercus x brittonii (*ilicifolia* x *marilandica*) -



Quercus imbricaria

Quercus imbricaria – Beukehof, Belgium,
BD.1542, 2,56 m x 22 m



Quercus imbricaria - Mingus Mill, Great Smoky Mts - 2013.1018



A large, mature Quercus phellos tree stands prominently in the center of the image. The tree has a thick, dark trunk and a dense canopy of green leaves. In the background, a wooden fort structure with a small tower is visible, surrounded by a wooden fence. The foreground is a grassy area with a wooden fence. The sky is overcast.

Quercus phellos

Quercus phellos, Fort Massac, Illinois USA, 2004



Quercus phellos - Arboretum Wespelaar 91106- 24 nov 04 -



-*Quercus phellos* - Herkenrode - 91104-572 - October 2004

Western Europe





Quercus robur

Quercus robur – Domaine Empain, Esneux , BD.12283 - 1994.10.20 -



Quercus robur

Liernu (Eghezee),
Belgium -

1015cm x 18m -



Quercus robur – Arboretum Wespelaar AA275 , 410cm x 25 135 years old - 2021





Quercus robur 757cm – Golf d'Enghien BD.197 foto Michel Timacheff,-





Quercus robur (Pollarded) - Maenan Hall, Wales UK - 2000.0507 -

A large, mature Quercus petraea tree stands prominently in a park-like setting. The tree is tall and has a dense, rounded canopy of green leaves. It is situated on a grassy slope. In the background, other trees and a small green van are visible. The sky is blue with some light clouds.

Quercus petraea

Quercus petraea – Les Amerois , BD.15018, 358cm - 2000.0820 -



Quercus petraea - HEX, 532cm, 2012.0302

Quercus petraea - Arboretum de la Tessenire, Esneux, Belgium



Quercus petraea - HEX, 532cm, 2012.0302

Quercus petraea – Arboretum de la Tessenire, Esneux, Belgium



Quercus petraea - HEX, 532cm, 2012.0302



Mediterranean and Near-East



Quercus pubescens

Quercus pubescens - La Sainte Baume , France - 2011.0417



Quercus pubescens – Verignon France - 2012.0405









*Quercus pubescens*_409cm_BD.1494_Herzele 2004.0828



Quercus ilex

Quercus ilex forest on North slope – Monastère de la Verne, Var France January 2004







Quercus ilex 7,5m girth - Bolsena - Isola Bisentina, Italy - 20060504 -



Quercus ilex - Villa Balbianello - 2014.0527

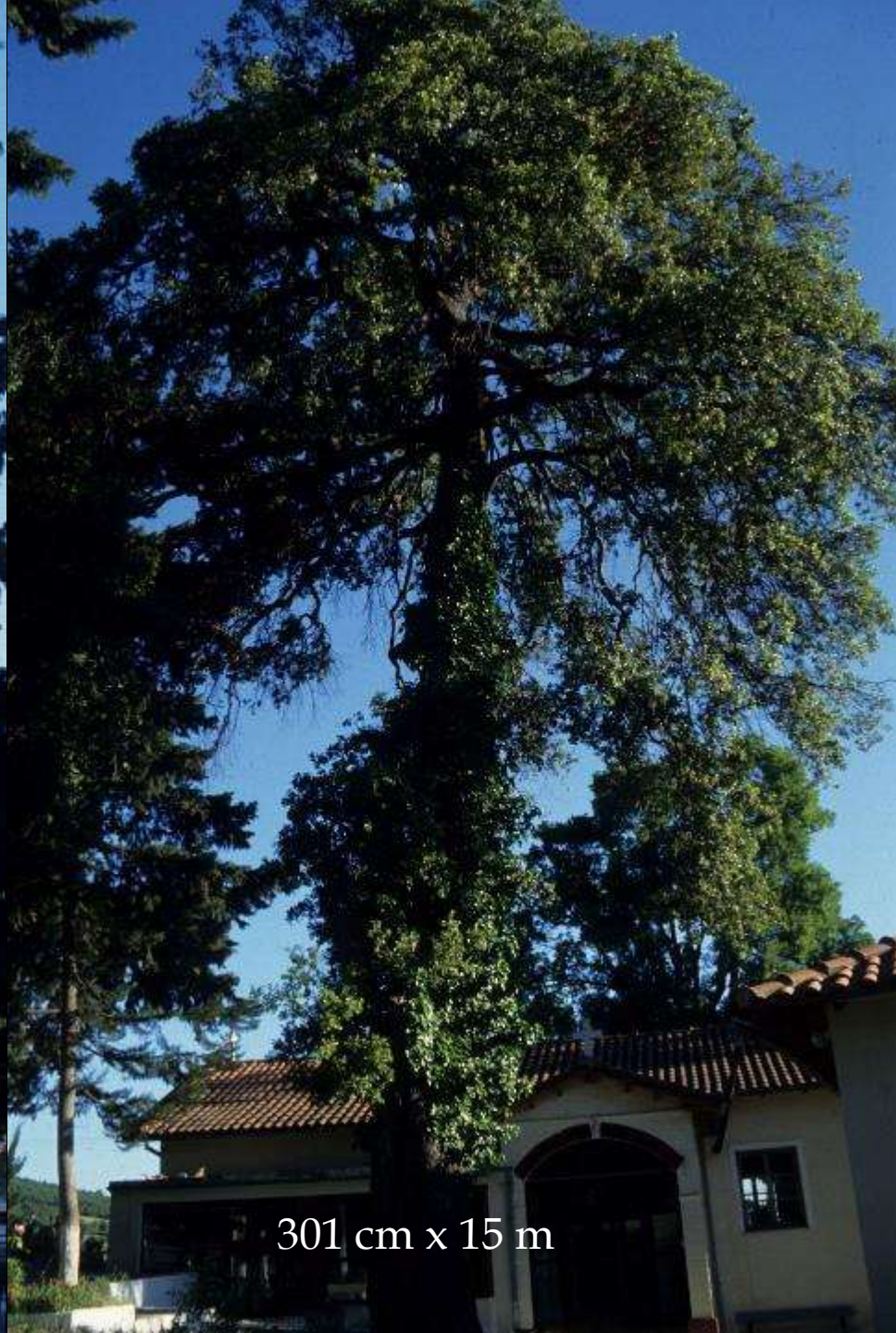


Quercus coccifera

Quercus coccifera,
Arbutus sp. –

Mount Olympos,

IDS in Greece -
1994.0523



301 cm x 15 m



A large, mature Quercus suber tree with a thick, gnarled trunk and a dense, rounded canopy of green leaves. The tree is situated on a well-maintained green lawn. In the background, a group of people is walking along a path, and there are other trees and a clear blue sky with some light clouds.

Quercus suber

-Quercus suber - Anthony House, Cornwall - 2008.0327 -





Quercus suber - La Garde Freinet France - 2012.0905 -















Quercus
castaneifolia

Quercus castaneifolia - Golestan, warm south bank , IDS in Iran- 2017.0420



Quercus castaneifolia - Golestan, warm south bank , IDS in Iran- 2017.0420



Quercus castaneifolia - Golestan, warm south bank , IDS in Iran- 2017.0420



Quercus castaneifolia - Golestan, warm south bank , IDS in Iran- 2017.0420





Quercus frainetto

Quercus frainetto - Arboretum Wespelaar 84829-vpl-215 - 2007.1003



Quercus frainetto - Arboretum Wespelaar 84829-vpl-215 - 2007.1003



Quercus petraea subsp. *iberica*- Oil Pipeline - Adzameti Reserve, Kutaisi
- DDG in Georgia - 25 Aug 2001



Quercus petraea subsp. *iberica*
with *Viscum album* (Mistletoe)

–

Sagurami Nat. Reserve

DDG in Georgia –
2001.0817 –





Quercus pontica

Quercus pontica - Arboretum Wespelaar - 91492-waa-165 - 2009.1027



Quercus pontica - Trompenburg , Netherlands - 1994.1008 -



Quercus 'Pondaim' (*pontica* x *dentata*) - 91490-waa-221 - 2007.1020



A large, mature Quercus cerris tree is the central focus of the image. It has a dense, dark green canopy and a thick, textured trunk. The tree is situated in a forest with other trees visible in the background. The foreground shows a grassy area. The sky is a clear, light blue.

Quercus cerris

Quercus cerris - ARDEN, BD.4623 - 427cm x 25 m (2001) - NM-Houyet-ARDEN - 1990.0





A photograph of a mountainous landscape. The foreground shows a grassy slope leading down to a valley. The middle ground features a steep, rocky hillside with several patches of snow and scattered, bare trees. The background shows a ridge with more snow patches and a few more trees under a blue sky with white clouds. The text "Quercus macranthera" is overlaid in the center of the image in a white, serif font.

Quercus macranthera

Quercus macranthera - Olang Pass 2200m , IDS in Iran - 2017.0421









Himalaya

7719
Kongur Shan

7723
Muztag

Kunlun Shan

8611
Mt K2

8848
Mt Everest

Xizang / Tibet

NEPAL

Assam

SIKKIM

BHOUTAN

Yunnan

BANGLADESH

MYANMAR
(BIRMANIE)

INDE

Salween

Mekong



Quercus griffithii

Quercus griffithii, Paro valley, Bhutan - April 1984 -











A photograph of a dense forest of Lithocarpus pachyphyllus trees covering a steep hillside. The trees are mostly green, with some showing signs of autumnal change to brown and yellow. The forest is thick and extends up the slope. In the foreground, there is a rocky, light-colored ground surface.

Lithocarpus pachyphyllus

Lithocarpus pachyphyllus - Bansoi bridge on Teesta river,
2500m, IDS in Sikkim - India - 2010.0509



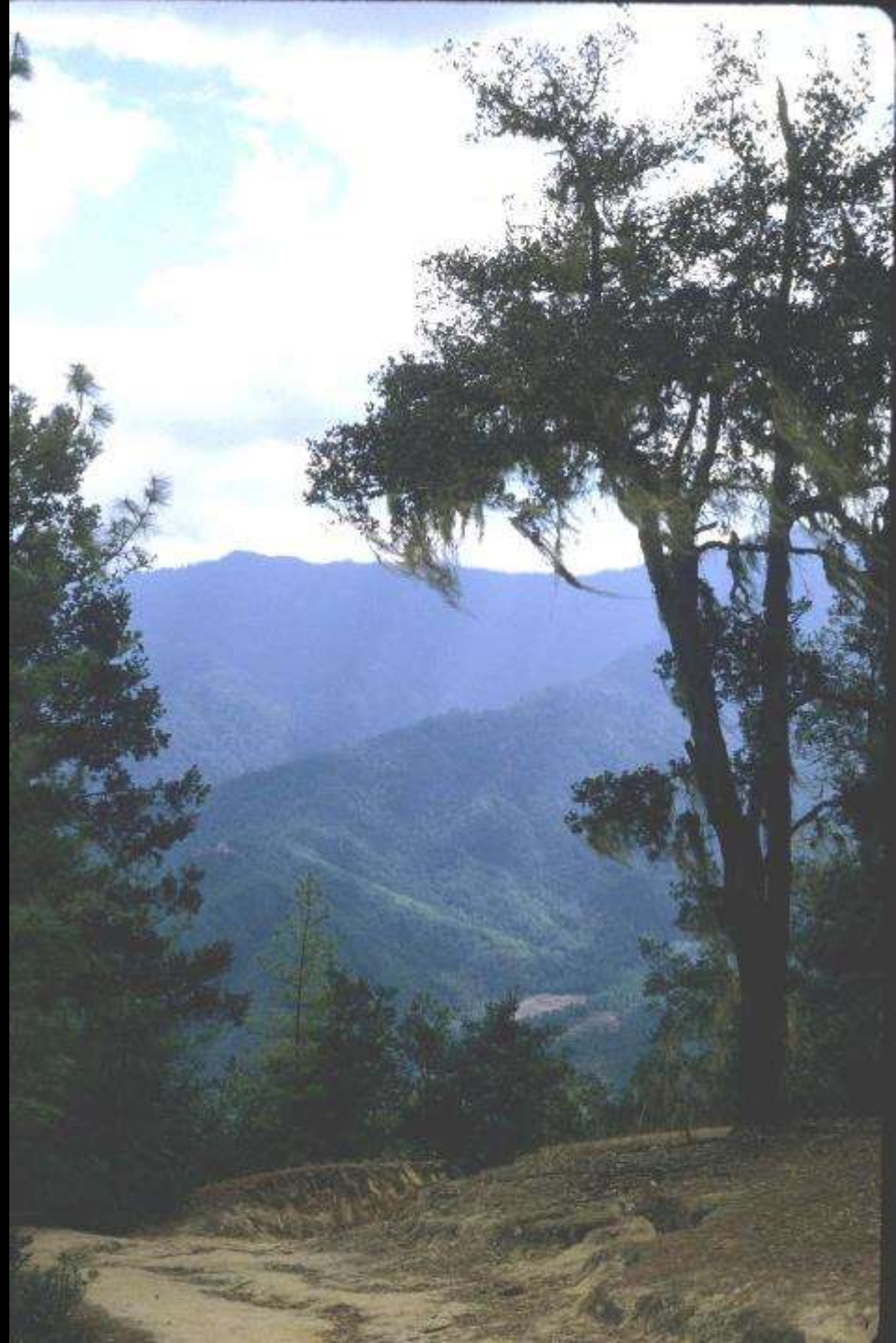
Quercus lamellosa

Quercus
lamellosa –
after
Rabongla,
Pelling to
Gangtok

Sikkim, India -
2010.0502



Quercus lamellosa – Yuksam - Ketchoperi lake, Sikkim - 2010.0429



Quercus
semecarpifolia,

(Section *Ilex*)

Taksang Monastery

- Bhutan - Apr 1984



CHINE

Central and South Western China

Xizang / Tibet

Assam
SIKKIM

OUTAN

SH

Yunnan

MYANMAR
(BIRMANIE)

Salween

Mekong

Yang-Tse

An aerial photograph showing a dense forest of Quercus semecarpifolia trees. The trees are dark green and cover a significant portion of a hillside. In the upper part of the image, there is a rocky, light-colored slope that appears to be a scree or talus slope. The overall scene is a natural, undisturbed forest landscape.

Quercus semecarpifolia

Quercus semecarpifolia aff. - Benzilan to Degen, Sichuan-Yunnan border



Quercus semecarpifolia aff. - Benzilan to Deqen - 2008.0704



Quercus aquifolioides

Quercus aquifolioides - 3000m entrance to park - 99 Dragon Pools; Laojun, Jian Chuan, Yunnan - 2007.0407



Quercus aquifolioides - 3000m entrance
to park - 99 Dragon Pools;
Laojun, Jian Chuan, Yunnan - 2007.0407



Quercus aquifolioides - 3000m entrance to park - 99 Dragon Pools;
Laojun, Jian Chuan, Yunnan - 2007.0407



Quercus aquifolioides - Göttingen BG. - 2010.1009 060



Quercus monimotricha

Quercus monimotricha - Yuhu, Lijiang, Yunnan, China- 2008.0624









Quercus pannosa

Quercus pannosa - Picea likiangensis - 4000m Bamashan, Xiangcheng - 2008.0704





Quercus pannosa - Bamashan,
West of Xiangcheng , 3800m, -
Sichuan-Yunnan border - 2008.0704







Quercus pannosa – Shibao shan, Jian Chuan, Yun. - 2007.0406



Quercus pannosa – Shibao shan, Jian Chuan, Yun. - 2007.0406

A close-up photograph of a branch of Quercus acutissima. The branch features several large, ovate leaves with prominent pinnate venation and serrated margins. Interspersed among the leaves are several clusters of small, brown, fuzzy catkins (male flowers) hanging from the branch. The background is a blurred, greyish-brown rock surface.

Quercus acutissima

Quercus acutissima - Stone forest - Kunming, Yunnan - 2007.0403



Quercus acutissima – Arboretum Robert Lenoir nr 2448.14 , - Belgium - 2008.0721



Quercus acutissima - Lenoir 2448.14 - 2008.0721



Quercus acutissima - Morris Arboretum - 2007.0718



Quercus dentata
subsp. *yunnanensis*

Quercus dentata subsp. *yunnanensis* (Yunnan, China, 2250m) –
Arboretum Wespelaar01248 - 2012-0917







A photograph of a Quercus fabri tree in a park setting. The tree is the central focus, with a dense canopy of green leaves. The background shows a clear blue sky and other trees, including a large evergreen on the right. The text 'Quercus fabri' is overlaid in white serif font at the bottom center.

Quercus fabri

Quercus fabri – Arboretum Wespelaar 91470- 11 august 2004 -



Quercus fabri – Arboretum Wespelaar 91470-waa-289 - 14 mai 2004 -



Quercus fabri - Arboretum Wespelaar - 91470-waa-289 - 16 jun 2005

Eastern Asia





Quercus variabilis

Quercus
variabilis -

Chollipo
Arboretum,

Korea - May
1989.





Quercus variabilis - out of Lishan, IDS in Taiwan - 2012.1114



Quercus variabilis - 2100m, Gaoligong, road to Pianma, Yunnan - 2007.0410 -



Quercus variabilis versus *Q. acutissima* (right)
- Chollipo Arboretum



Quercus crispula
(Syn. *Q. mongolica* subsp. *crispula*)

Quercus crispula - just out of Park Boundaries, Shirafu, Mt Azuma, Honshu, Japan , 1992



Quercus crispula - 1350m nr. Norikura Mountain - 2008.1015









Quercus crispula - Norikura Mt., 1350m , Honshu- 2008.1015



Quercus crispula - Arboretum Wespelaar - 84649-dbl-216 - 2011.1031





Quercus crispula var. *horikawae*
Mount Zao, Honshu



Quercus crispula var. *horikawae* - *Acer australe* , *Sorbus*, *Prunus* - Mount Zao - 2008.1007





The image shows three distinct branches of oak species laid out on a grassy surface. The branch on the left has several large, light green, ovate leaves with prominent veins. The middle branch is a woody stem with numerous smaller, darker green, lanceolate leaves. The branch on the right has several large, dark green, lanceolate leaves with serrated margins. The text 'Quercus glauca' is overlaid in white serif font across the center of the image.

Quercus glauca

Quercus glauca -
00602-diy-174 -

Quercus salicina
(Okayama, Japan) -
07141-wld-172 -

Quercus myrsinifolia -
89251-spi-164 -



Quercus glauca (Cyclobalanopsis) - 3 waterfall path - Lushan - 2007.0331



Quercus glauca – Arb. Wespelaar – 00602 – 2006.0605



Quercus glauca - Arborertum Wespelaar - 00602 - 2007.12



15 April 2012



27 June 2012



Quercus myrsinifolia - 89251 - (left) vs. *Q. glauca* 00602 - Arb Wespelaar - 2006.0605



Quercus myrsinifolia

Quercus myrsinifolia – Arboretum Wespelaar 89251 - 2004.1113



January 2007



20 March 2009



11 December 2011



17 September 2012





Quercus myrsinifolia aff.

Quercus myrsinifolia aff. - Shixi, Jiangsi, Central China, 2009.0510



Quercus myrsinifolia aff. - Shixi, Jiangsi , Central China - 2009.0510 -



Quercus salicina (Okayama, Japan) – Arboretum Wespelaar 07141- 2011.0525



Quercus salicina
(Okayama, Japan) -

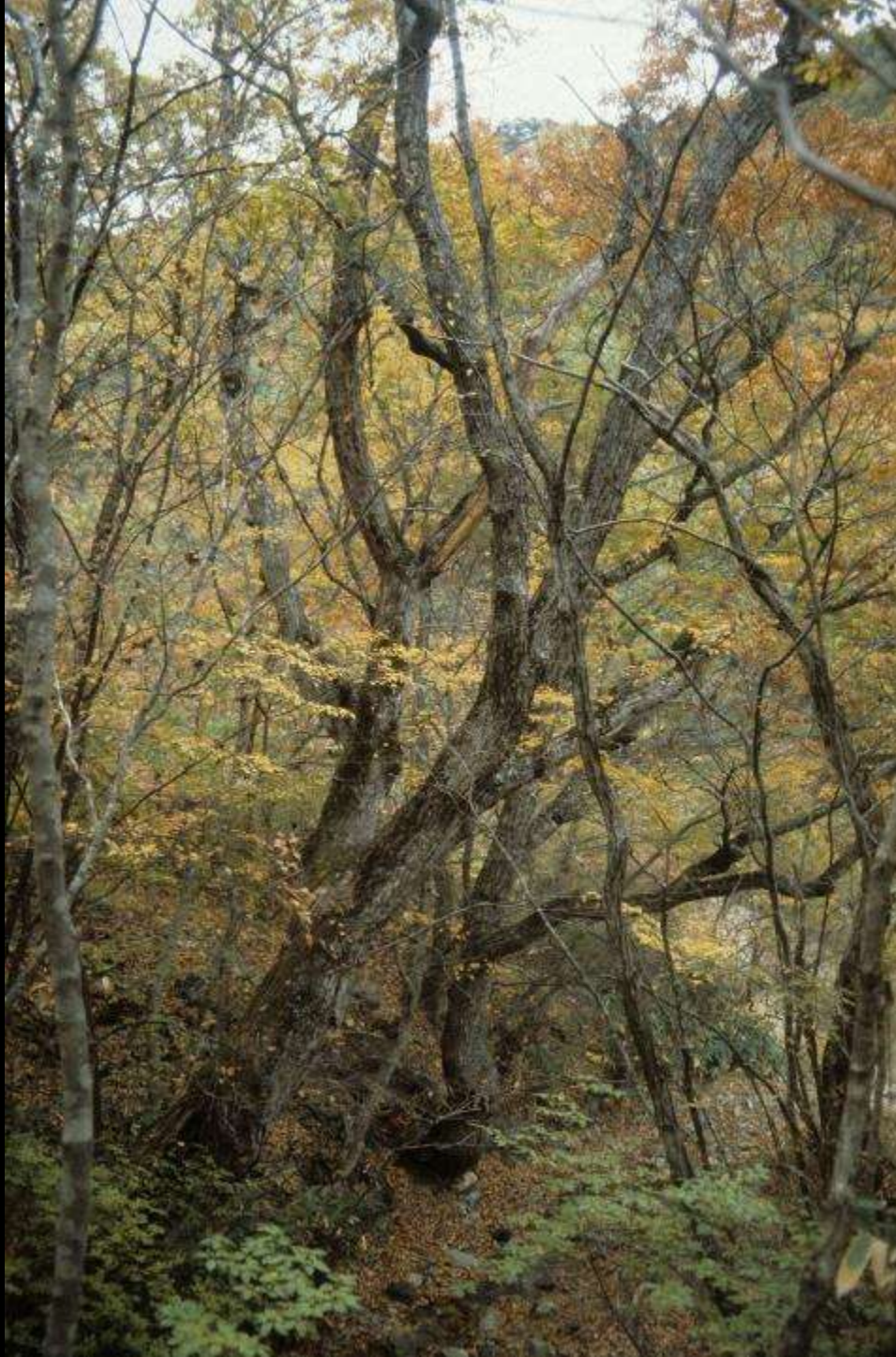
Arboretum Wespelaar

07141-wld-172 -
2012.0623

A large, mature Quercus serrata tree with a dense, rounded canopy of green leaves. The tree is the central focus of the image. In the background, there are rolling green hills and mountains under a clear blue sky. Several people are visible in the foreground and middle ground, some standing and some taking photos, indicating a public park or scenic area. The ground in the foreground is a mix of dirt and grass.

Quercus serrata

Quercus serrata - Lake Tazawa , Honshu Japan - 2008.1003



Quercus serrata –
Honshu, Japan, -
1992.10 -



Quercus serrata - Tono Hetsuri, Okawa river - Honshu, Japan - 1992.1029



Quercus serrata 'Herkenrode' (ex Tono Hetsuri, Honshu, Japan)
Arboretum Wespelaar 97037 -





Quercus serrata (ex.Tono Hetsuri, Honshu, Japan) – Arboretum Wespelaar - 97036- 2008



Quercus dentata

Quercus dentata - Hakodate - Hokkaido, Japan - IDS- 26 Oct 1992



Quercus dentata - Chollipo Arboretum, Korea - 1989.0513 -







Quercus dentata – Hemelrijk Arboretum, Belgium, 2012.0414



Quercus dentata 'Carl Ferris Miller' - Arb. Wespelaar -2010.1103



Quercus 'Pondain'
(dentata x pontica)

Quercus 'Pondaim'
(dentata x pontica)



Quercus dentata - Ichiko Lake, Hokkaido
2019.1028

The End

