

"A LIFETIME WITH TREES"

4th European I-Tree Conference

Dundee, Scotland

June 19/20th 2024

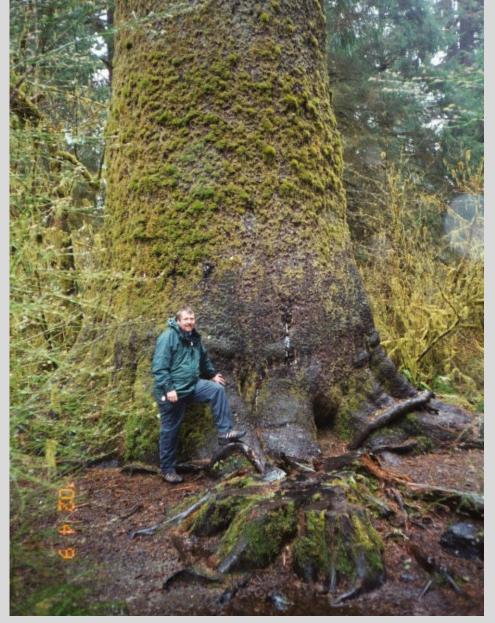
Tony Kirkham MBE, VMH, FICFor (Hon)



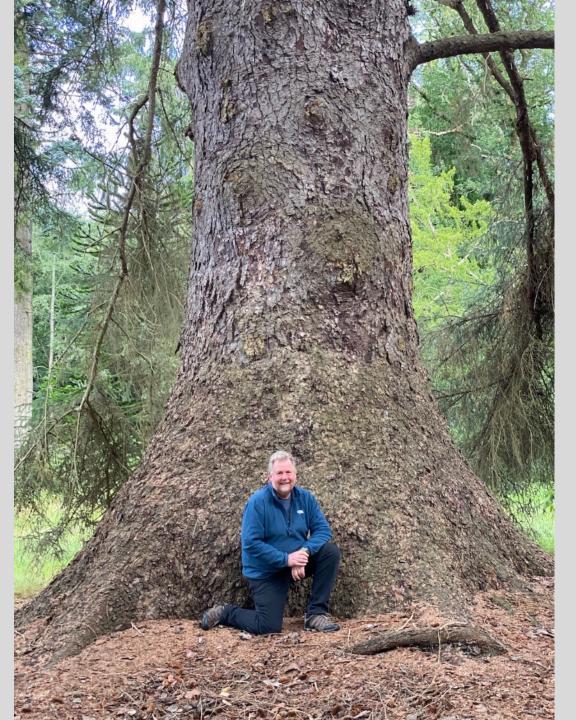




Forestry in the UK with 51% of conifer forest being Sitka spruce, *Picea* sitchensis covering 323,000 ha in Britain (Forest Research 2018)



Sitka spruce *Picea sitchensis* Western USA Original introduction of by David Douglas in 1831





Original Douglas Fir, *Pseudotsuga menziesii* at Scone Palace



The tapestry of trees in our landscape, arboreta and gardens Kew created by Princess Augusta in 1759



Many tree introductions in the landscape 14,000 trees and 2,500 taxa





Japanese Pagoda tree Styphnolobium japonicum

Syn*. Sophora japonica* Planted in 1762

An "Old Lion" Brought to England from China via France by London nurseryman James Gordon in 1753

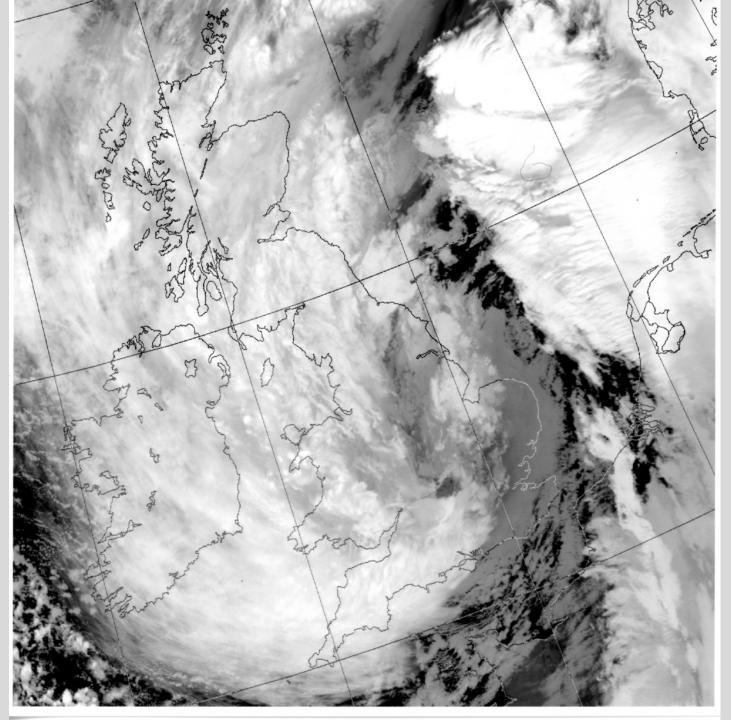
Central & Southern China



Turner's oak, Quercus x turneri 'Pseudoturneri' planted 1978



16 October 1987



Biggest storm for over 250 years

15 million trees felled in one night

700 trees lost in Kew Gardens



"Old Lion" Caucasian elm Zelkova carpinifolia planted in 1762 felled in 1987

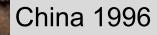
The Temperate Loop



Russian Far East 1994

Taiwan 1992

Hokkaido 1997



S. Korea 1989





1994 The Russian Far East and Sakhalin Island





Seed cleaning & changing herbarium specimens



"OBSERVATION" Four Girls Mountain, Sichuan, W. China



Ulleung rowan

Sorbus ulleungensis 'Olympic Flame'

Syn. S. commixta 'Dodong'







1992 - The Sapphire dragon tree *Paulownia kawakamii* ETOT 41



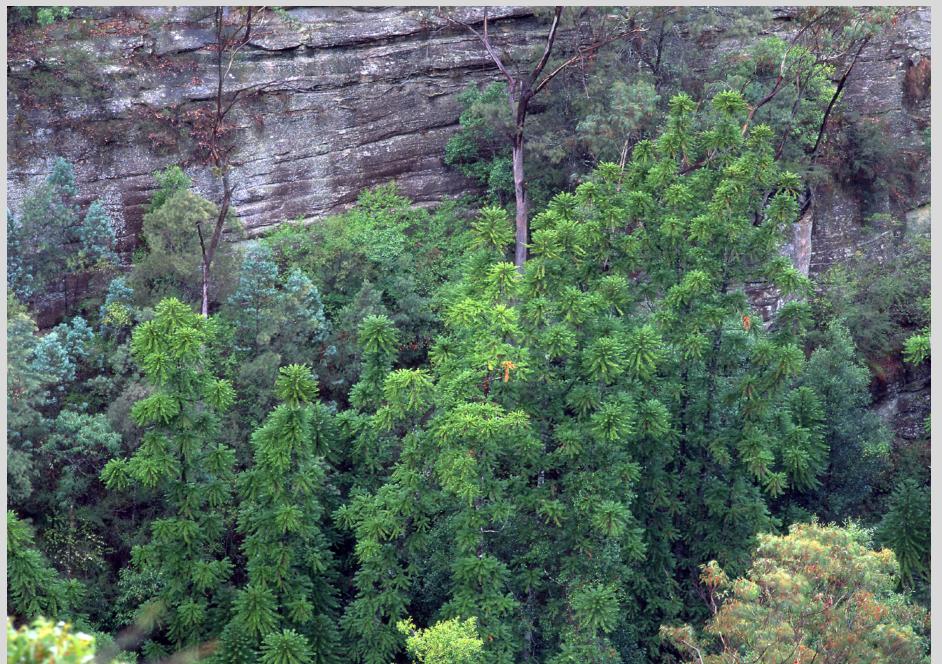


1992 - Taiwan incense cedar Calocedrus formosanus ETOT 10





The Wollemi pine Wollemia noblis seen by David Noble in 1994







vid Noble & ily 2006



Monkey Puzzle Araucaria araucana



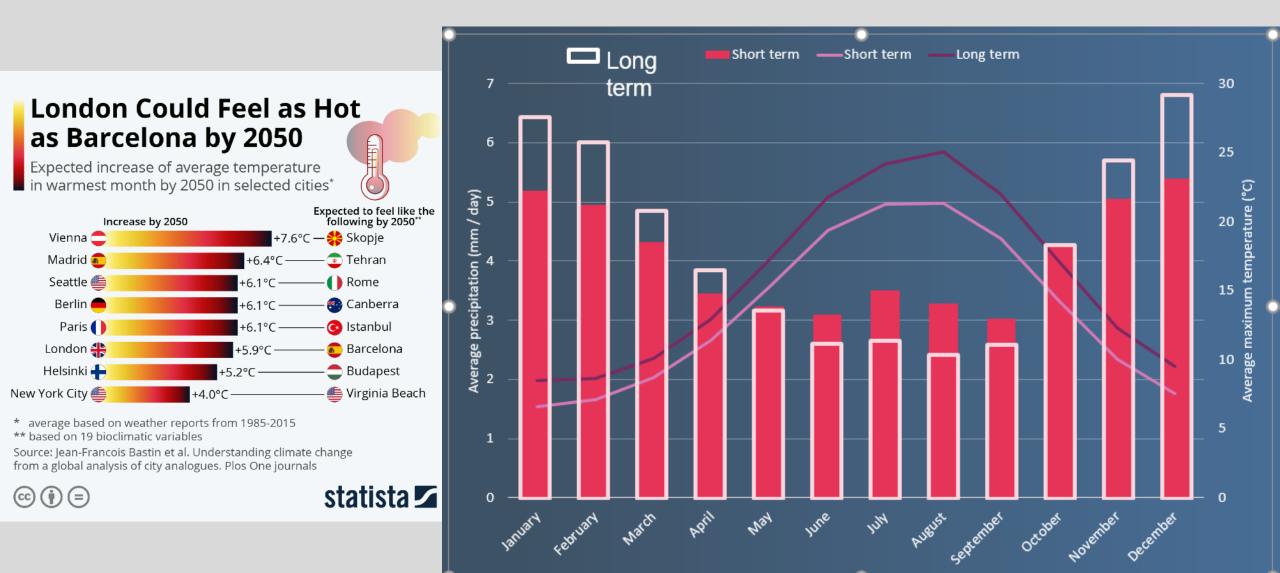
Horse chestnut, Aesculus hippocastanum



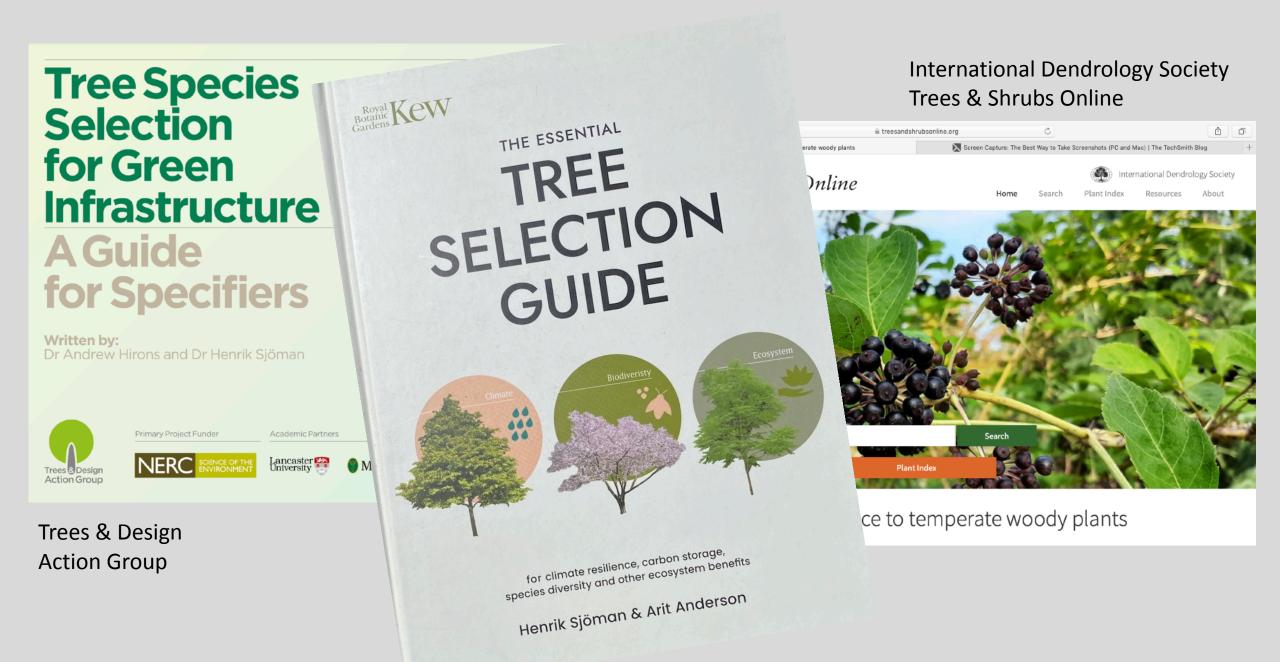
Indian horse chestnut Aesculus indica 'Sydney Pearce' planted 1935

Vietnamese buckeye Aesculus wangii

Climate and Seasonal Change By 2050



Manchester predicted Climate by 2050



A plethora of information published and on the internet



What do we need in our future tree selection and tree establishment

- Diversity for resilience.
- A mix of native and non-native species.
- Shade trees (large canopy trees) for canopy cover not pioneer species.
- Drought tolerant species.
- Tree species that will tolerate high UV levels and summer heat.
- Tree species that will tolerate urban stress.

