

Poplars and Willows in the World: meeting the needs of society and the environment

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Background

- *Poplars in forestry and land use* - FAO 1958
- *Poplars and willows in wood production and land use* - FAO 1980
- Both now out of date & out of print
- IPC Exec. Comm. 2002 - proposed new edition of FAO/IPC poplar book
- A new global publication resource for a new age

Objective

- To produce a major update of the previous (1980) edition of the FAO publication on poplars and willows in an accessible format, providing a practical worldwide overview and guide to their basic characteristics, cultivation and use as well as issues, problems and trends relating to poplars and willows.

Audience

- Public and private sectors
- Decision makers & policy makers in forestry, agriculture & environment ministries
- Foresters, ecologists, botanists, agronomists, environmental engineers

Scope

- World-wide
- More emphasis on willows
- New focus on environmental uses and sustainable rural development
- Sourcebook and information guide
 - comprehensive bibliography, index, contacts, links to Internet resources

Contents

Preface

1. Introduction

2. Poplars & willows in the world

3. Natural ecosystems

4. Genetic resources

5. Industrial plantations

6. Environmental uses

7. Abiotic stresses

8. Diseases

9. Animal pests

10. Properties and utilization

11. Markets, trends and outlook

12. Sustainable rural development

13. Conclusions

Appendices

A. Research agencies, institutions & organizations

B. Bibliography

C. Index

D. Glossary

Lead Chapter Authors

- Poplars & willows in the world - Don Dickmann, Julia Kuzovkina, USA
- Natural ecosystems – Jim Ball, UK +
- Genetic resources – Brian Stanton, USA
- Industrial plantations – John Stanturf, USA
- Environmental uses - Jud Isebrands, USA
- Abiotic stresses - Reinhart Ceulemans/N. Marron, Belgium
- Diseases – Mauritz Ramstedt, Sweden
- Animal pests - Sylvie Augustin, France + John Charles, NZ
- Properties & utilization - John Balatinecz, Canada
- Markets, trends and outlook - Qiang Ma, FAO
- Sustainable rural development - Jim Carle, FAO
- Other chapters - Jud Isebrands, Jim Richardson

Format

- Electronic publication as 1st goal
 - chapters on FAO/IPC website in PDF
 - published as completed, after review
 - illustrations & references
- Individual chapters published as FAO Forestry Working Papers
- Future - CD? Printed book?
- English initially → French, Spanish later

Process

- Overall project supervision - Jim Carle
- Editing/coordination - Jud Isebrands, Jim Richardson
- Chapters written by teams of authors with chapter leads
- Peer review
- Production by FAO
 - Chapters on Internet
 - Chapters as FAO Working Papers
 - CD? Book?

Revised Schedule

- May 2004 - prospectus accepted by FAO
- Dec. 2004 - lead authors recruited
- 2005 – lead author changes, building author lists, chapter outlines complete
- 2006 - writing & review – some chapters in complete draft
- Feb. 2007 - progress report to IPC Exec. Comm.
- 2007 – writing, review and revision
- Oct. 2008 – **first chapters available on FAO/IPC website**
- Dec. 2008 – more chapters available on web, in print as FAO Working Papers
- Mar. 2009 – most chapters on web & in print
- July 2009 – project completion

Chapter 2

- ‘Poplars and willows of the world, with emphasis on silviculturally important species’
- Don Dickmann (poplars) and Julia Kuzovkina (willows)
- **Completed. Now available on FAO/IPC website** – <http://www.fao.org/forestry/ipc>
- Almost a book in itself

Chapter 2

- Includes:
 - 144 pages
 - 8 pages references
 - 40 range maps
 - 42 photos & figures
 - ‘proposed taxonomic classification of the genus *Populus*’
 - ‘classification of the genus *Salix* by world region’

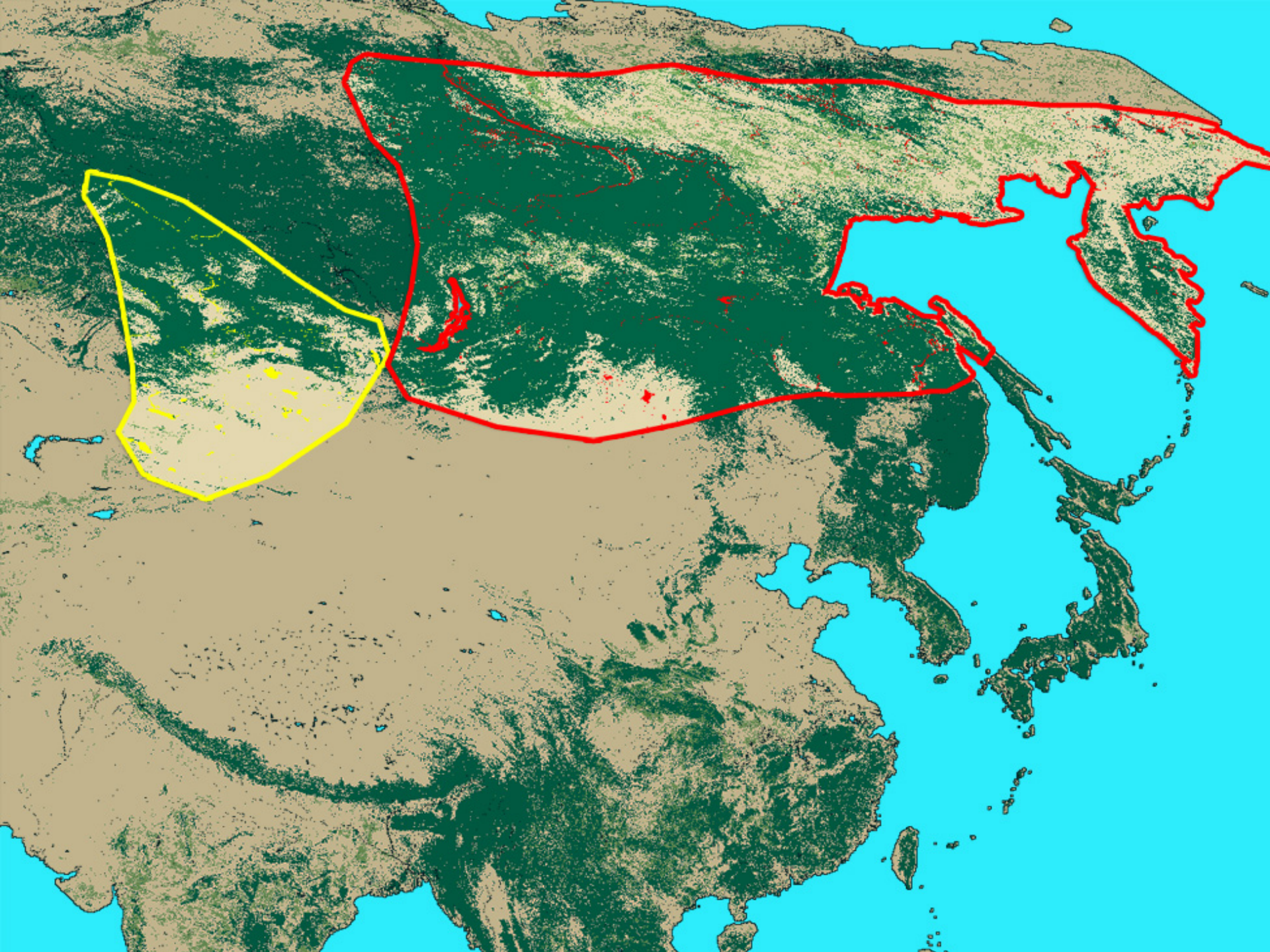




Table 2-2. Proposed taxonomic classification of the genus *Populus*.^a

Section	Taxon	English common name ^b	Notes and synonyms
<i>Abaso</i>	<i>P. mexicana</i> Wesmael	Yaqui cottonwood	Monotypic section
<i>Turanga</i> (Afro-Asian poplars)	<i>P. euphratica</i> Olivier <i>P. ilicifolia</i> (Engler) Rouleau <i>P. pruinosa</i> Schrenk	Euphrates poplar Kenyan poplar Desert poplar	Includes <i>P. diversifolia</i> Formerly synonymous with <i>P. euphratica</i> Formerly synonymous with <i>P. euphratica</i>
<i>Leucoides</i> (Swamp poplars)	<i>P. glauca</i> Haines <i>P. heterophylla</i> Linnaeus <i>P. lasiocarpa</i> Oliver	Asian swamp cottonwood Swamp cottonwood Heart-leaf poplar	Formerly <i>P. wilsonii</i>

Chapter 4

- ‘Genetic Resources’
- Brian Stanton + Larry Smart
- Contributions from Bel, Can, Chi, Ind, Ita, Kor, Ser, Tur, USA +
- Poplar section completed, awaiting willow section
- Available on web by December 2008

Chapter 6

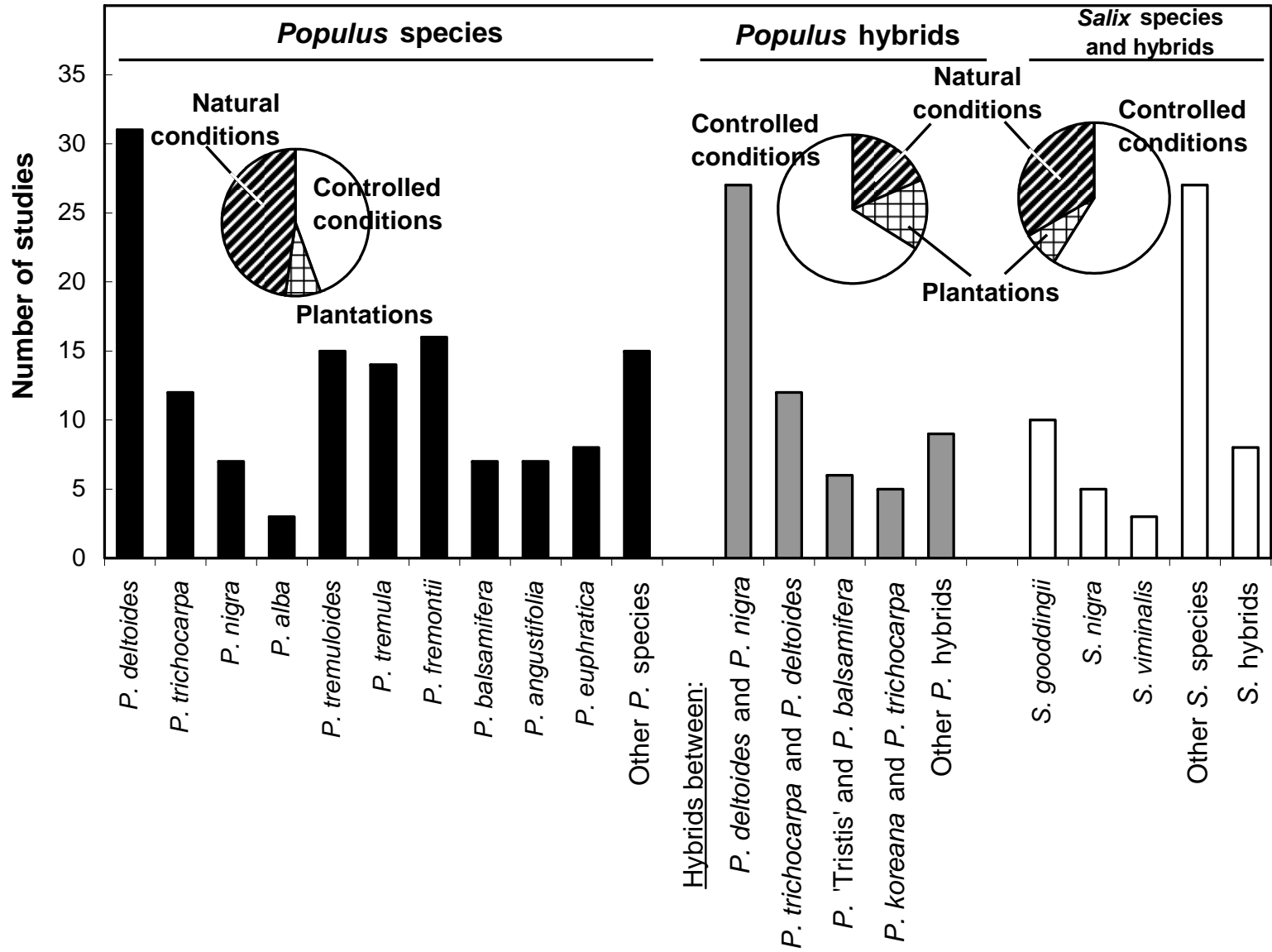
- ‘Environmental Uses’
- J.G. Isebrands
- Discussed in subsequent presentation this afternoon

Chapter 7

- ‘Abiotic stresses’
- Nicolas Marron, Reinhart Ceulemans & 8 others
- **Completed. Now available on FAO/IPC website** - <http://www.fao.org/forestry/ipc>
- Covers edaphic (water deficit, desertification, salinity, soil nutrient status) and atmospheric (O₃, CO₂, increased temperature, photoinhibition) stresses

Chapter 7

- Includes:
 - 69 pages text + 13 pages figures
 - 22 pages of references
 - comprehensive annotated list of studies
 - glossary





Chapter 9

- 'Insects and other pests of willows and poplars
- John Charles, Sylvie Augustin, Ludovic Nef
- Core text + contributed text boxes on specific pests
- Close to final version just received
- Look for availability in next few months

Chapter 10

- ‘Properties, Processing and Utilization’
- John Balatinecz
- Contributions from Belgium, China
- Draft completed and reviewed
- Final revision underway
- Available by December 2008

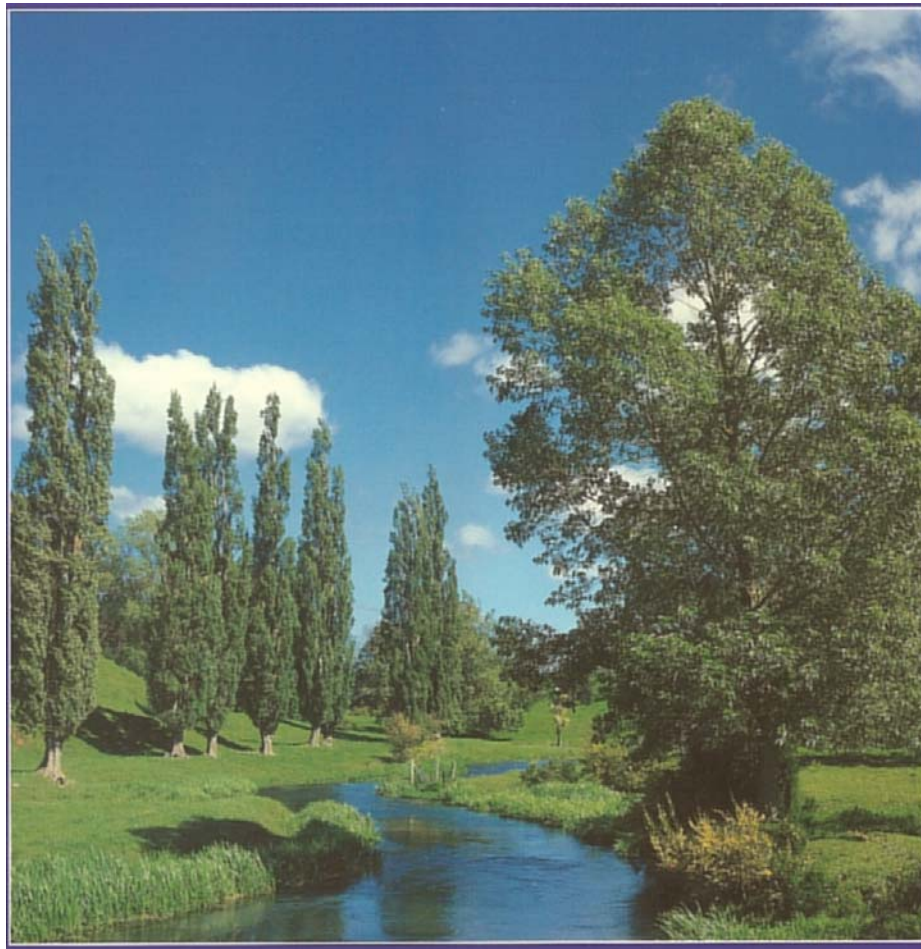
Acknowledgements

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Thank you!

www.fao.org/forestry/ipc/p-w_book/Ch2

www.fao.org/forestry/ipc/p-w_book/Ch7



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