

# Final discussion

*ICC 2009  
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Finland*

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4.6.2009 Gustavelund*

**METLA**

# Content of ICC

## Field exercises

2\* Birch

3\* Norway spruce and Scots pine

## Photo test

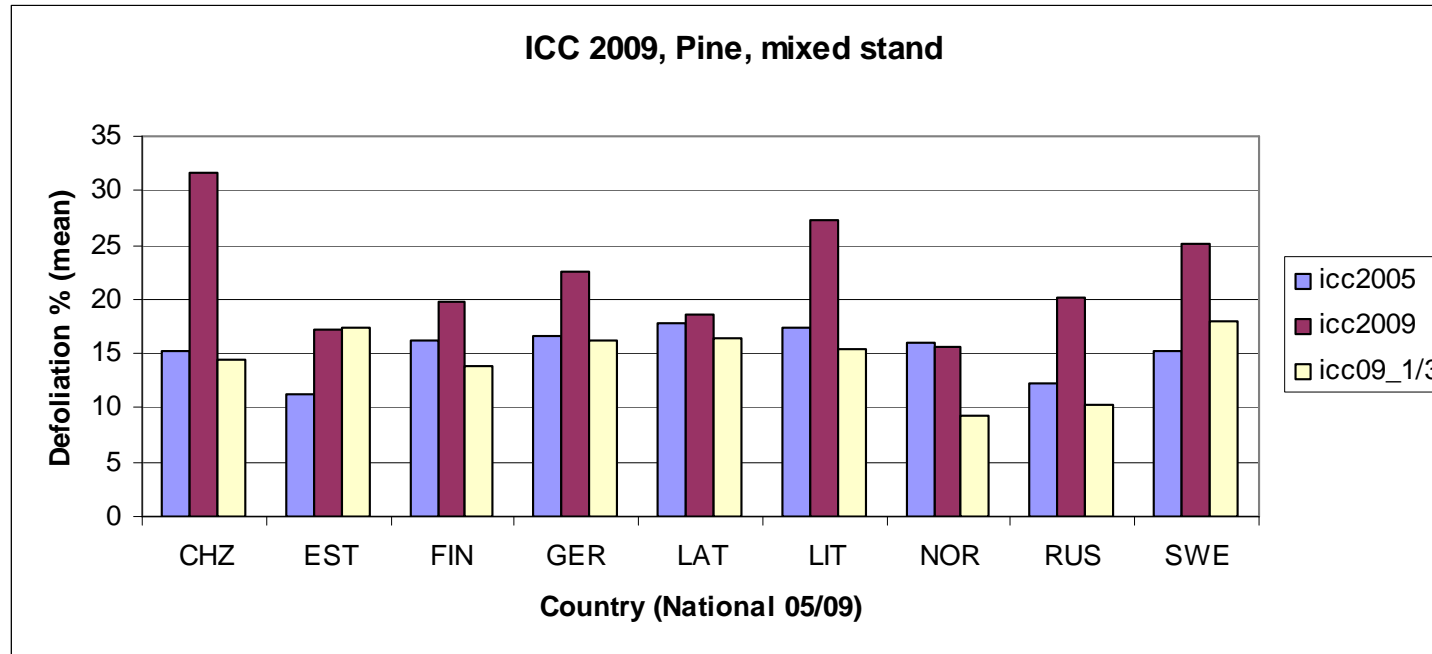
Birch, Pine and Spruce (20 trees/species)

## Introduction of D1 (competition index)

## Preliminary results of ICC 2009, some plots only

- Comparison between 2005 and 2009
  - National methods
  - 1/3 of crown (fixed), 2009

## Scots pine



Defoliation level has increased since 2005

Only few trees where Range in defoliation assessments was 10% or less (3/25 nat.methods, 11/25 in 1/3 fixed of crown)

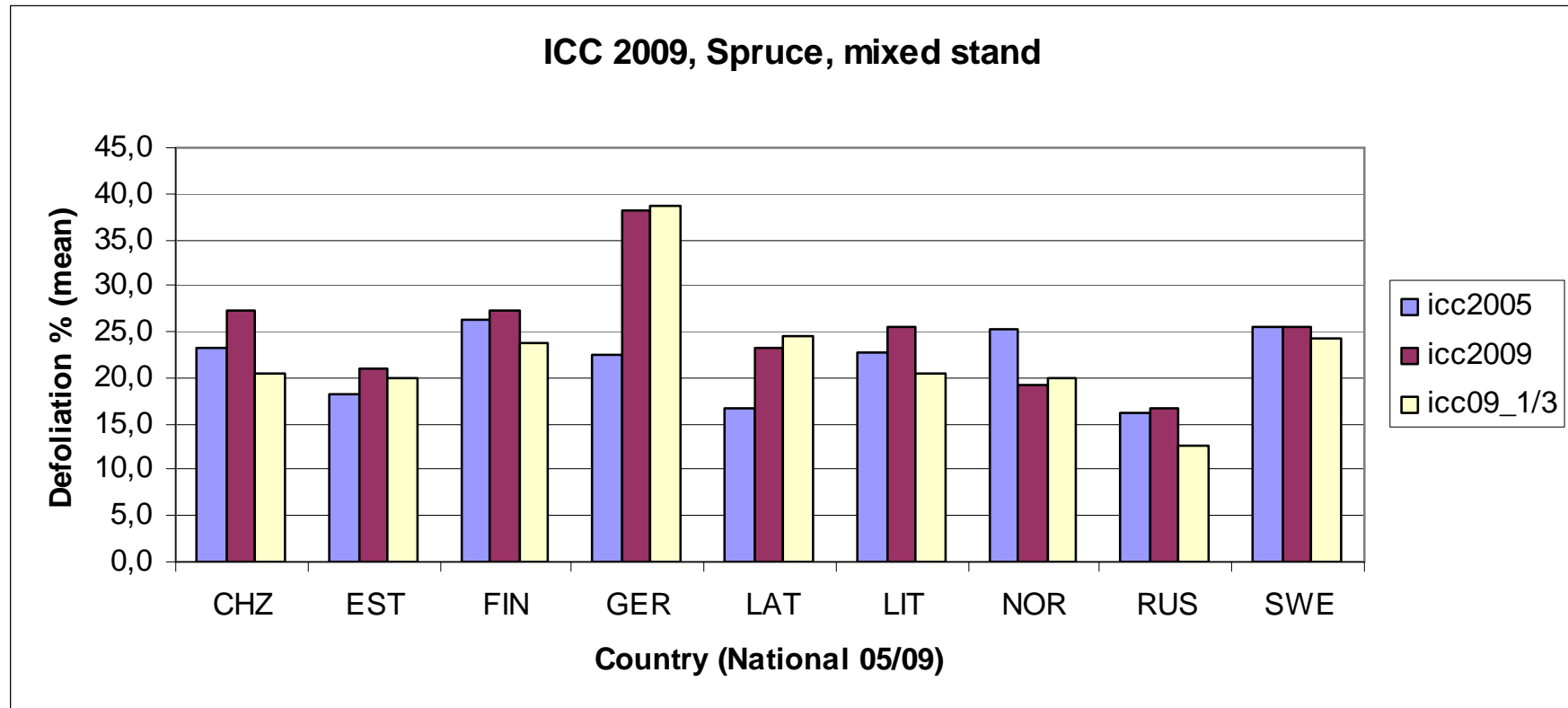
Std (between countries) increased from 2.2 (2005) to 5.2 (2009)

Std was 3.1 when using 1/3 (fixed) of the living crown (2009)

different time of the year, no new shoots, older needles have dropped?

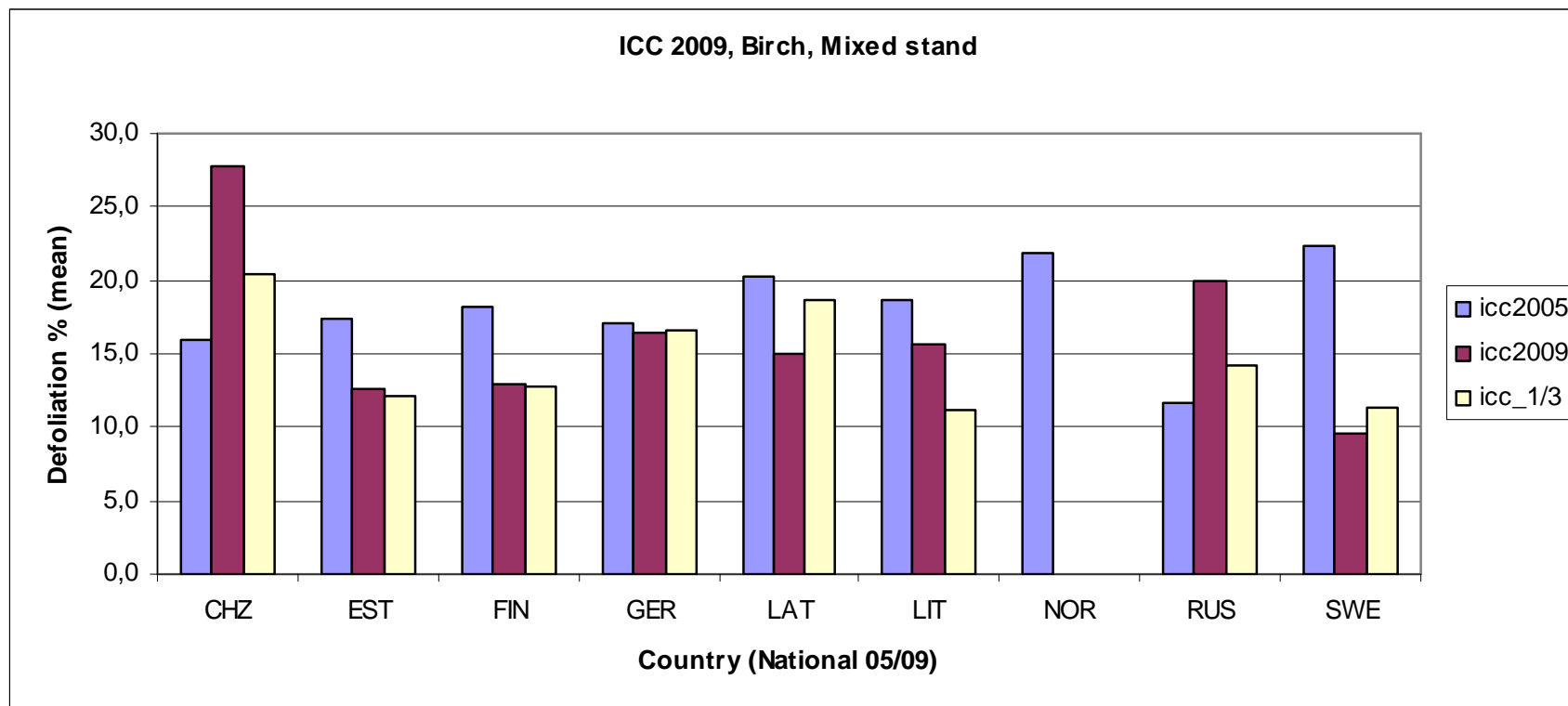
Flowering!

## Norway spruce



- Defoliation degree increased since 2005
- Only few trees where Range in defoliation assessments was 10% or less (0/25 nat.methods, 0/25 in 1/3 fixed of crown)
- Std (between countries) increased from 3.8 (2005) to 6.2 (2009)
- Std was **7.0** when using 1/3 (fixed) of the living crown! (2009)
- different time of the year, no new shoots, older needles have dropped?

# Birch



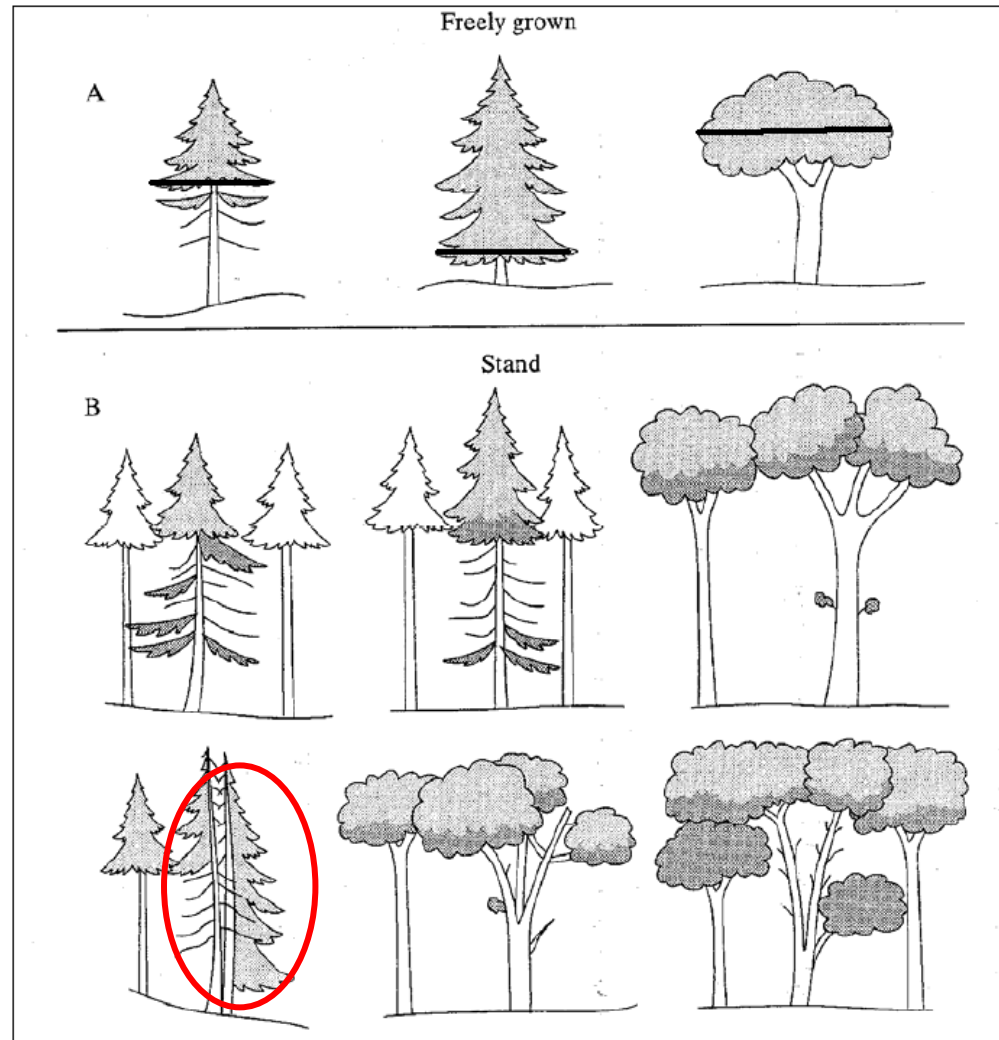
- Birches less defoliated than in 2005
- Only few trees where Range in defoliation assessments was 10% or less (0/25 nat.methods, 8/25 in 1/3 fixed of crown)
- Std (between countries) has increased from 3.3 (2005) to 5.6 (2009) in national methods
- Std was 3.5 when using the 1/3 (fixed) of the living crown

## *Methods of assessment*

### *Assessable crown*

- *widest span of the crown (fig 1 in D1 manual),*  
**PROBLEMATIC**

Fig. 1: Illustration of definition a): Assessment of the tree crown ranges from the tip of the tree to the widest horizontal span of the crown (stand: the lighter colour indicates assessable crown; freely grown trees: black line)



## ***Methods of assessment, 2***

- *1/3 of **living** crown*
- *national definition*

### *Assessment position*

- *fixed place (marked)*
- *national (e.g. different side of tree)*

### *Parameters*

- defoliation (in 5% classes, 0, >0-5, >5-10...)
- discolouration (ICP-classes or in 5% classes )
- damage (according to the ICP manual, only some trees).
  - **Dead tree top?**

## Assessment in the field

- too many parameters (lack of time, hurry, time for discussion)
- timing of the ICC (early June vs late summer)
  - no good preparation to defoliation assessment
  - Coniferous trees shoot growth in the beginning, Birches not in fully foliage
- Damage
  - use of ICP-codes/manual

## Photo test, ideas behind

- What we are testing?
  - differences between
    - trees
    - years (new photos every ICC's?)
    - assessors/countries
    - field and photo assessment
    - stability of assessment

## Additional remarks (D1)

- Tree age in FutMon D1 plots
- "Competition index, Distance"
  - Starting from the nearest tree (should be included in to the protocol, message to Johannes)
  - How to handel dead trees, should be clarify in the protocol, message to Johannes. Freshly cut trees (stumps)?

## General conclusions

- thanks for huge work done by participants
- each participant gave us the correct assessment
- data evaluation and structure of report will be discussed after the ICC in Czech, **dead line?**
- Help from PCC?
- comparison with values from 2005 and 2001 is possible the first time (some trees, some participants)

