



*B1*

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LIFE09 ENV/FI/000571  
Climate change induced drought effects on forest growth and  
vulnerability (Climforisk, [www.metla.fi/life/climforisk](http://www.metla.fi/life/climforisk))

# Aims

- Measurements of phenological changes in forests with RGB-cameras
  - Carbon exchange
  - Snow
  - Shoot growth and other processes (flowering, seed production)
- Establish a network of cameras that feed other actions of the project

# Canopy/areal images



Canopy color indexes  
Snow cover area

# Canopy/areal images



- . Do images correlate with tree activity?
  - . Gas exchange
  - . Sap-flow

# Canopy/areal images



- Information on the development of photosynthetic activity?
  - $V_{cmax}$ ,  $J_{max}$ ?
  - $f_s$ -model parameters in PRELES?

# Closeups

- . Growth of shoots
  - . Growth periods
  - . Total length growth
- . Flowering, cone production



*Forest* METLA KNOWLEDGE *Well-being*  
Know-how

*Thank you*

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