



Curriculum vitae

PERSONAL INFORMATION

Name **GIACOMO GRASSI**

EDUCATION

- **Ph.D. in forest ecology**, University of Bologna (1995-1999). I studied the functioning and sustainability of coniferous forest ecosystems under uneven-aged management in the Italian eastern Alps, with special emphasis on the dynamics of natural regeneration and on ecophysiology of photosynthesis of Norway spruce and silver fir.
- **Degree in agricultural science** at the University of Bologna (1989-1994), final mark 110/110 *cum laude*.

WORK EXPERIENCE

Dates: June 2005 – today

Employer: **European Commission**, DG **Joint Research Centre**, Institute for Environment and Sustainability (Ispra, Italy)

Position: **permanent official** within the **Climate Change Unit**

Main activities:

- Scientific and technical support for implementing the European greenhouse gas (GHG) inventory system in the sector Land Use, Land Use Change and Forestry.
- Research on the GHG balance and climate change impacts in terrestrial ecosystems.

Dates: January 2005 – May 2005

Name and address of employer: Dipartimento TeSAF, University of Padova.

Position held: **permanent researcher**.

Main activities: research in the field of forest ecology and silviculture

Dates: January 2003 – May 2005

Employer: Dipartimento Colture Arboree, University of Bologna.

Position held: **contract researcher**.

Main activities: coordination of photosynthetic measurements within EU projects aimed at estimating the carbon balance of forests ecosystems and their vulnerability to climate change.

Dates: March 2003 – September 2003

Employer: Faculty of Environmental Science, University of Urbino.

Position held: **contract professor** of the course “**Plant ecophysiology**” (32 hours)

Main activities: lectures, lab exercises, exams.

Dates: May 1999 – December 2002

Employer: Dipartimento Colture Arboree, University of Bologna.

Position: **post-doc researcher** on the project “Integrated study on productive and environmental aspects of forest plantations” (36 months).

Main activities: set up, coordination and implementation of research, data processing and analysis, presentation of the results in international meetings and journals.

Periods abroad:

- 1990-1991: one-year **Erasmus** at the University of **Canterbury**.
 - 1998: one year at the University of **Edinburgh** (working with Prof. P.G. **Jarvis**)
 - 2000: two months at the *Macaulay Land Use Research Institute* of **Aberdeen**.
-

PUBLICATIONS

- **42 scientific publications** – 25 of which as first author – in refereed international (20) and national (8) journals and in refereed conference proceedings (14).

Selected papers:

- 1) Grassi G., Meir P., Cromer R., Tompkins D., Jarvis P.G. (2002) Photosynthetic parameters in seedlings of *Eucalyptus grandis* in response to nitrogen supply. *PLANT, CELL AND ENVIRONMENT* 25:1677-1688.
- 2) Grassi G., Millard P., Wendler R., Minotta G., Tagliavini M. (2002) Measurement of xylem sap amino acid concentrations in conjunction with whole tree transpiration estimates spring N remobilization by cherry (*Prunus avium* L.) trees. *PLANT, CELL AND ENVIRONMENT* 25: 1689-1699.
- 3) Grassi G., Minotta G., Giannini R., Bagnaresi U. (2003) The structural dynamics of managed uneven-aged conifer stands in the Italian eastern Alps. *FOREST ECOLOGY AND MANAGEMENT* 185:225-237.
- 4) Grassi G., Millard P., Gioacchini P., Tagliavini M. (2003) Recycling of N in the xylem starts when spring remobilization of internal reserves finishes in *Prunus avium* trees. *TREE PHYSIOLOGY* 23:1061-1068.
- 5) Tonon G., Panzacchi P., Grassi G., Minotta G., Cantoni L., Bagnaresi U. Spatial and temporal dynamics of natural regeneration in *Pinus nigra* stands in the northern Apennines (2005). *ANNALS OF FOREST SCIENCE* 62, 669–667.
- 6) Grassi G., Vicinelli E., Ponti F., Cantoni L., Magnani F. (2005) Seasonal and interannual variability of photosynthetic capacity in relation leaf nitrogen in a deciduous forest plantation in northern Italy. *TREE PHYSIOLOGY* 25: 349-360.
- 7) Grassi G., Magnani F. (2005) Stomatal, mesophyll conductance and biochemical limitations to photosynthesis as affected by drought and leaf ontogeny in ash and oak trees. *PLANT, CELL & ENVIRONMENT* 28:834-849.
- 8) Granier A, Reichstein M, Grassi G, ... (2007) Evidence for soil water control on carbon and water dynamics in European forests during the extremely dry year: 2003. *AGRICULTURAL AND FOREST METEOROLOGY*, 143, 123–145.
- 9) Mollicone D., Achard F., Federici S., Eva H., Grassi G., Belward A., Raes F., Seufert G., Matteucci G. and Schulze E.-D. (2007) An incentive accounting mechanism for reducing emissions from conversion of intact and non-intact forests. *CLIMATIC CHANGE* 83:477–493.
- 10) Mollicone D., Freibauer A., Schulze E.-D., Braatz S., Grassi G. and Federici S. (2007) Elements for the expected mechanisms on Reduced Emissions from Deforestation and Degradation (REDD) under UNFCCC. *ENVIRONMENTAL RESEARCH LETTERS* (*in press*)

- More than **60 popular scientific publications**, written as consultant of the national journals *Monti e Boschi* (1996 - 2003), *Alberi e Territorio* and *Forest@* (2003 - today).

Other editorial activity:

- **Member of the editorial review board** of the journal *Tree Physiology*.
- **Associate editor** of the journal *Forest@*.