

ICP Forests: Activities 2014/2015

Walter Seidling,

Thünen Institute of Forest Ecosystems



1st EMEP / WGE session
14-18 Sept. 2015



wge

Working Group on Effects
of the
Convention on Long-range Transboundary Air Pollution

Activities of ICP Forests 2014/15

June 10
Tuesday



International Cross calibration Course Crown Condition (Central Europe)

June 10, 2014 at 6pm to June 13, 2014 at 12pm – Witzenhausen, Germany

Cross calibration course Here you will find the 2. Announcement for download [Second_announcement.pdf](#)

Organized by German Federal Ministry of Food and Agriculture in co-operation with the Northwest German Forestry Research Station | Type: **scientific**

October 29
Wednesday



PCG Meeting of ICP Forests

October 29, 2014 at 1pm to October 30, 2014 at 1pm – German Federal Ministry of Food and Agriculture

The agenda will include the following main topics: Reporting Data management Data analyses Future meetings New ICP Forests strategy Please find attached the provisional agenda of the next PCG meeti...

Organized by PCC | Type: **strategic**

April 21
Tuesday



Combined EP Meeting

April 21, 2015 to April 24, 2015 – Göttingen, Germany, Northwest Forest Research Station

Combined Expert Panel meeting in Göttingen (Germany)
21.-24.4.2015 Meeting of the EP`s Foliar, Ambient Air Quality, Soil and Soil Solution, Deposition, Crown Condition and WG QA/QC in Labs Invitatio...

Organized by Nils König, Henning Meesenburg | Type: **scientific**,

Activities of ICP Forests 2014/15

May 19
Tuesday



4th ICP Forests Scientific Conference

May 19, 2015 at 4pm to May 21, 2015 at 2pm – Ljubljana, Slovenia

[http://www.icp-](http://www.icp-forests.org/DocsEvents/SC_2015/ICPForests_SciConf_Session1.zip)

[forests.org/DocsEvents/SC_2015/ICPForests_SciConf_Session1.zip](http://www.icp-forests.org/DocsEvents/SC_2015/ICPForests_SciConf_Session1.zip)

The 4th ICP Forests Scientific Conference with the title "Long-term trend and effects of air pollution on forest ecosystems..."

Organized by M. Ferretti, W. Seidling, A. Michel, D. Žlindra |

Type: scientific

May 20
Wednesday



31st Task Force Meeting of ICP Forests

May 20, 2015 at 8pm to May 22, 2015 at 4pm – Ljubljana, Slovenia

The 31st Task Force Meeting of ICP Forests will take place in Ljubljana, Slovenia, on May 20-22, 2015. This meeting is open for official delegates of ICP Forests and invited experts only. The dinner...

Organized by Walter Seidling, Alexa Michel, Daniel Žlindra | Type:

administrative

June 1
Monday



IUFRO NICE 2015: Global Challenges of Air Pollution and Climate Change to Forests"

June 1, 2015 to June 6, 2015 – Palais de la Méditerranée

IUFRO 7.01 Meeting and COST Action "GreenInUrbs";

Presentations can be downloaded from the following link:

<http://iufro-nice2015.com/programSchedule.php>

Organized by Pierre Sicard | Type: conference



Maintaining the Monitoring Programme

- Ongoing data acquisition of more than 500 parameters according to the manual by our member states at both intensity levels
- Data submission rules could be adapted: since December 2014 continuous data submission throughout the year is possible. A deadline (15th of February) decides, whether data will be regarded in the most recent evaluations (important for crown condition data as some Ministries are still highly interested in these evaluations).
- Continuation and further development of standard evaluation routines for administrative reporting; the WGE trend report has set some new standards, but we still see a need for further more meaningful descriptive statistics.
- There is still a need for further meaningful integrated evaluations on cause effect relationships.

Task Force Meeting of ICP Forests

The 31th Task Force Meeting was held on 19 - 22 May 2015 at Ljubljana/Slovenia chaired by Michael Köhl (minutes available on Web page of ICP Forests)

Agenda of the 31th Task Force Meeting of ICP Forests at Ljubljana/Slovenia

PCC of ICP Forests at Thünen Institute of Forest Ecosystems, Eberswalde, Germany
Slovenian Forestry Institute, Ljubljana, Slovenia

TFM ICP Forests Compressed Agenda #1

Thursday, 21 May 2015 **Task Force Meeting (afternoon)**, venue: GRAND Hotel Union

Opening by the Chairman Michael Köhl and the Host Country

Item 1 Adoption of the agenda

PCC: agenda for adoption, overview meeting docs. Adoption minutes 30th TFM

Item 2 Report by PCC

PCC: report on activities and progress since the 30th Task Force Meeting

Item 3 Reporting PCC of ICP Forests

implementation of the **2014/2015 Workplan of WGE**

contributions to **WGE Trends report**

draft of the Technical Report 2015

Executive Report 2014

30 year anniversary publication.

TFM ICP Forests Compressed Agenda #2

Item 4 Reports of sister ICPs

Franc Batic (ICP Vegetation, NFC Slovenia)

Lars Lundin (Chairman of ICP Integrated Monitoring)

Item 5 Activities of Expert Panels and other bodies of ICP Forests

chairs of Expert Panels, Quality Assurance Committee, Working Group on Quality in Laboratories and Chair of the Scientific Evaluation Committee.

Conference Dinner with 30 years anniversary statement(s)

Item 6 Data analysis by external institution and ICP Forests Expert Panels

On-going studies based on ICP Forests data will be presented

TFM ICP Forests Compressed Agenda #3

Item 7 **Status of the data base and future developments of the data infrastructure**

Overview by PCC on the recently submitted data

Overview by PCC on current/future developments of the data infrastructure

Experiences with manually operated data up-dates by PCC

Experiences with changeover towards a **continuous data submission** system

Revised **Data Policy** of ICP Forests

Item 8 **Co-operations with international organisations**

Reports on co-operations with LTER, EANET, IUFRO, efforts under COST

Item 9 **Obligations against WGE / CLRTAP**

“**Executive Summary** 2015” will be presented for discussion and adoption by the Task Force and for submission to WGE.

PCC will report on **CLRTAP Assessment Report 2016**

Item 10 **Medium-term Strategy (2016 – 2023) of ICP Forests**

Draft will be presented and discussed

4th Scientific Conference

- Session 1: Measuring and modelling air pollution trends and effects in Europe.
Chair: Karin Hansen
- Session 2: Measuring and modelling air pollution trends and effects in Europe (cont.).
Chair: Nenad Potočić
- Session 3: Forest response: health, diversity and growth.
Chair: Walter Seidling
- Session 4: New developments.
Chair: Marcus Schaub



“Global Challenges of Air Pollution and Climate Change to Forests”



Contributions from ICP Forests (*: presenting, ** EMEP MSC-W. ***: ICP M+M)

- *M. Nicolas* :
Global challenges of air pollution and climate change to the public forest management in France.
- *M Ferretti**, *K Hansen*, *V Calatayud*, *M Camino-Serrano*, *N Cools*, *B De Vos*, *TM Nieminen*, *N Potocic*, *P Rautio*, *M Schaub*, *V Timmermann*, *L Ukonmaanaho*, *P Waldner*:
Monitoring and modeling the long-term impact of air pollution on forest health and growth in Europe.
- *T Sanders*, *W Seidling**:
Accumulating influences on individual tree parameters: Focus on crown condition.
- *M. Schaub**, *M. Haeni*, *M. Ferretti*, *E. Gottardini*, *D. Simpson***, *V. Calatayud*:
Ozone risk assessment for European forests - a ten-year study on permanent monitoring plots.

“Global Challenges of Air Pollution and Climate Change to Forests”



Contributions from ICP Forests (*: presenting, ** EMEP MSC-W. ***: ICP M+M)

- *O. Badea**, *I. Popa*, *S. Leca*, *D. Silaghi*:
Effect of climate change on tree growth from intensive forest monitoring network in Romania.
- *W. de Vries**, *S. Etzold*, *M. Posch****, *G. Jan Reinds****, *L. Bonten*, *S. Solberg*, *P. Waldner*, *M. Schaub*, *D. Simpson***:
Assessment of impacts of nitrogen deposition, ozone exposure and climate change on carbon sequestration by monitoring and modeling.

ICP Forests: Technical Report 2015 and other Documentations

Walter Seidling,
Thünen Institute of Forest Ecosystems



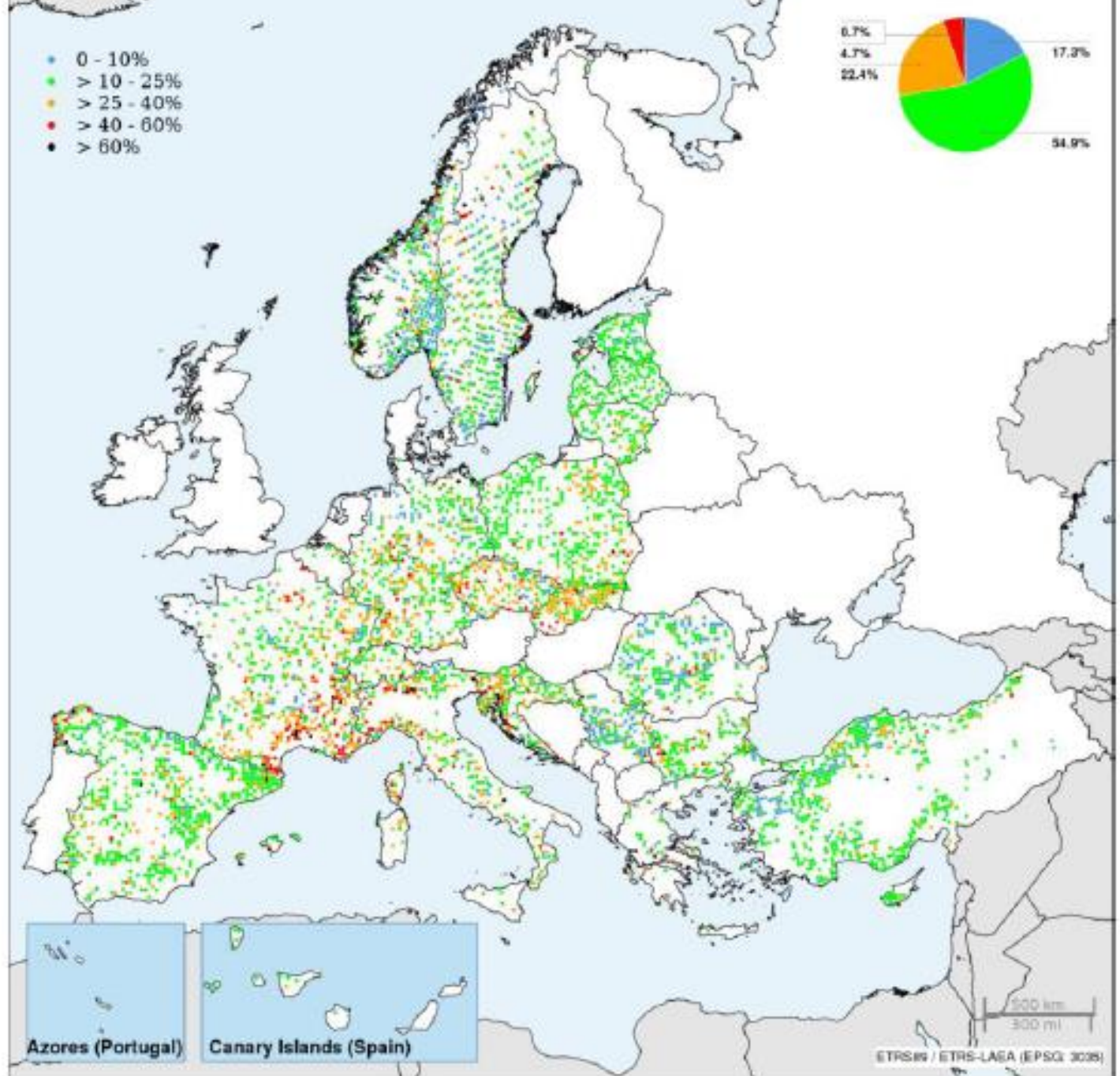
1st EMEP / WGE session
14-18 Sept. 2015



wge

Working Group on Effects
of the
Convention on Long-range Transboundary Air Pollution

All species 2014



Overall trend of crown condition in Beech

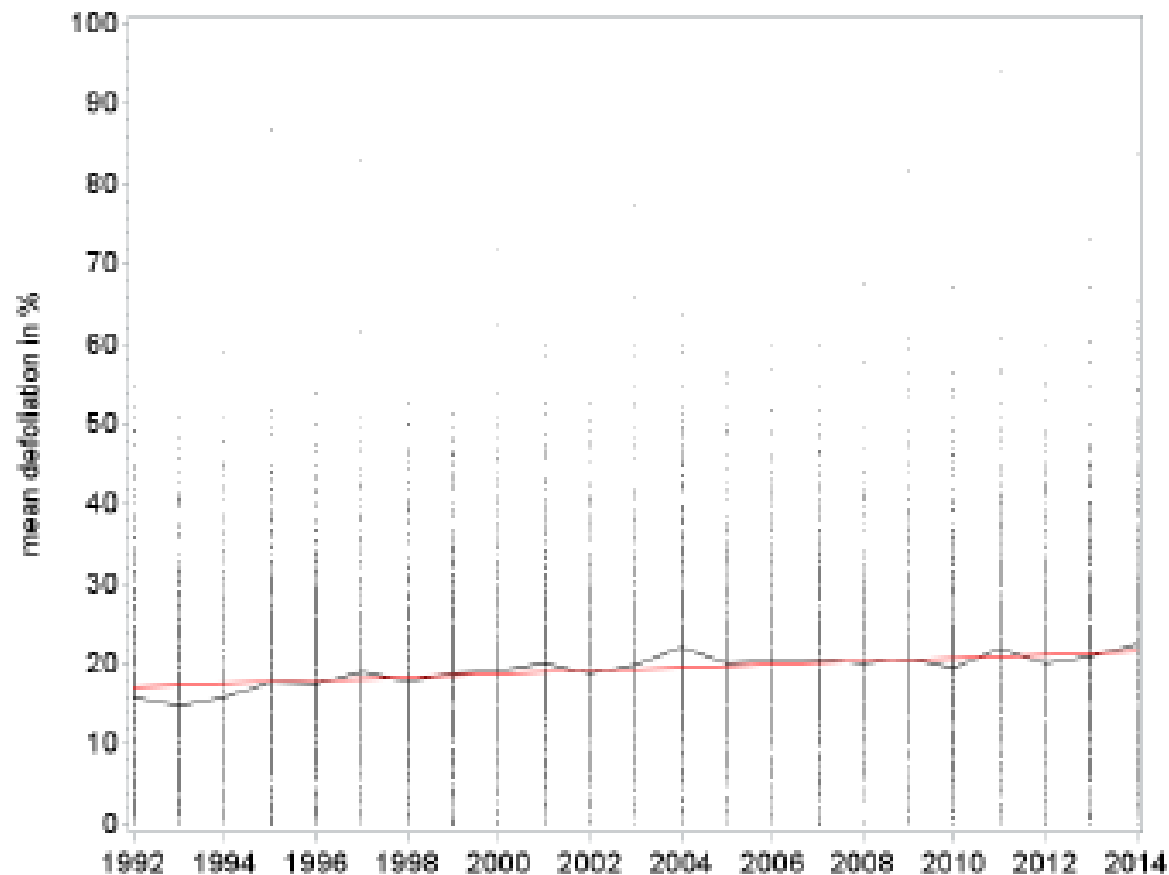
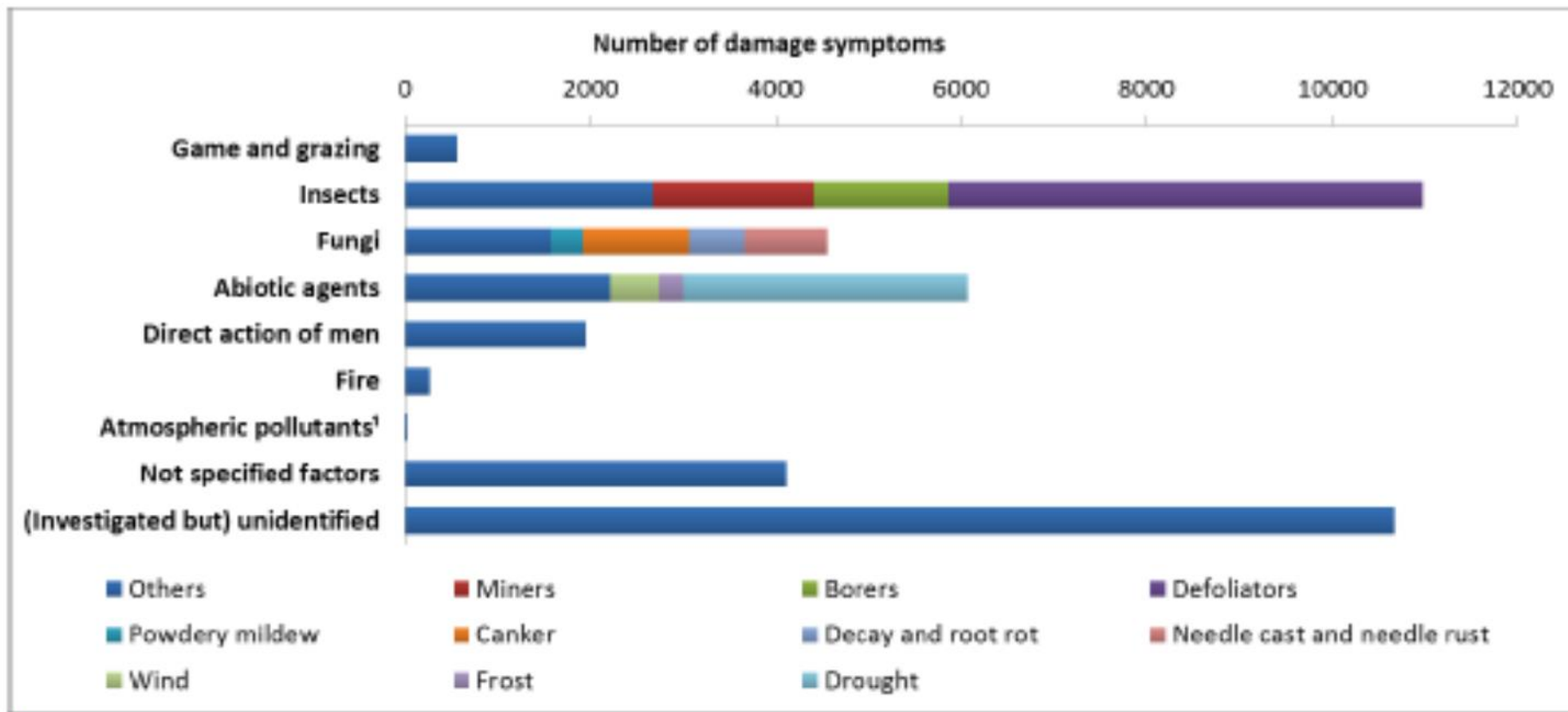


Figure 3-16. Over-all trend (regional Sen's slope = 0.2, $p < 0.001$; minimum length of time span: 20 years, red line) and yearly over-all mean defoliation (black line) of *Fagus sylvatica* at Level I sites; points represent annual plot means, for clarity these are not interconnected from year to year.

Overall registered cases of damages by causal agents



¹ Visible symptoms of direct atmospheric pollution impact only (cf. Figure 3-1)

Figure 3-30. Damage symptoms according to agent group and specific agents/factors (n=39 146). Each agent group was only counted once per tree.

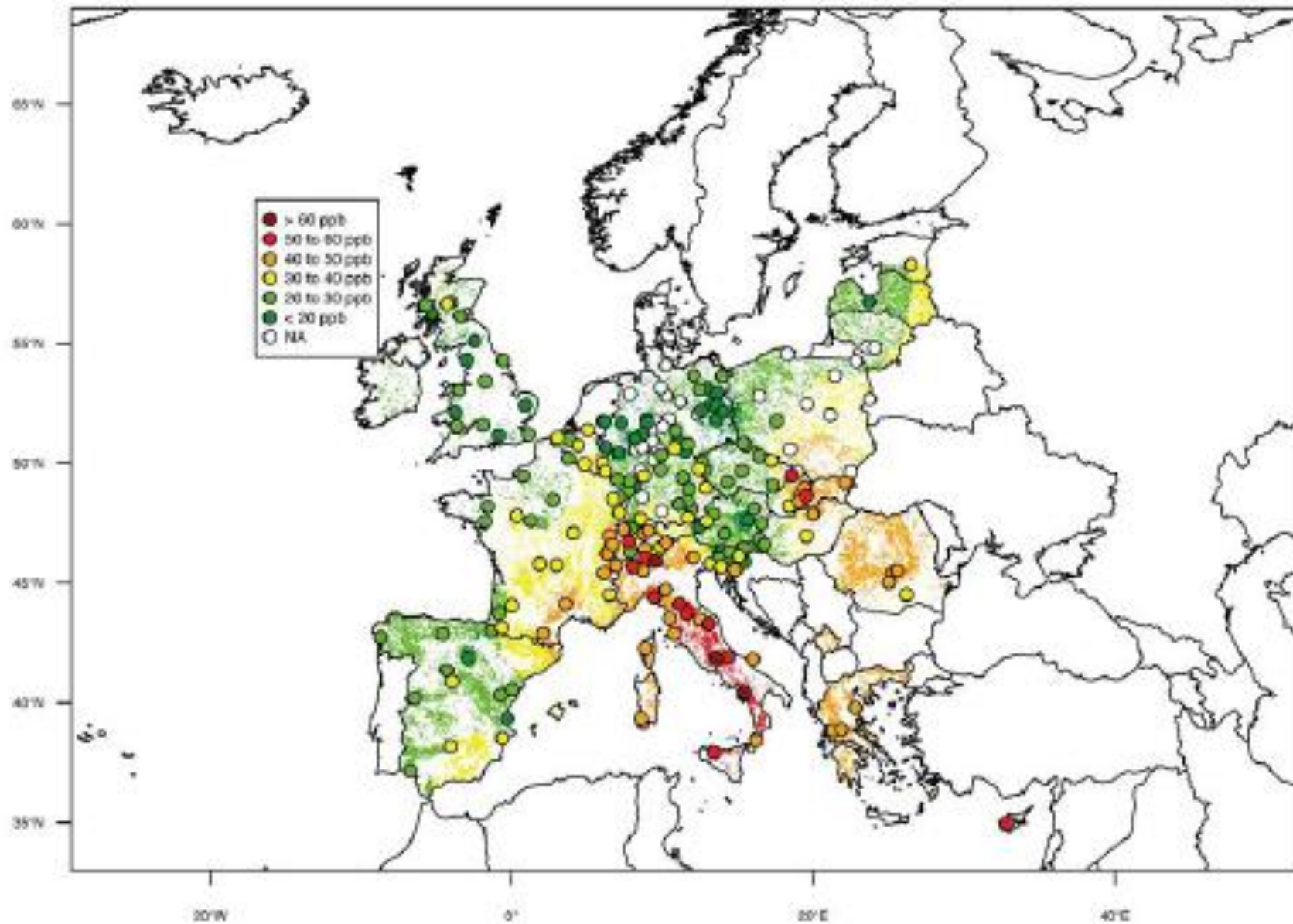


Figure 5-2. Spatial distribution of April–September mean ozone concentrations (ppb) from passive samplers on 203 plots and 20 countries during 2000-2013.

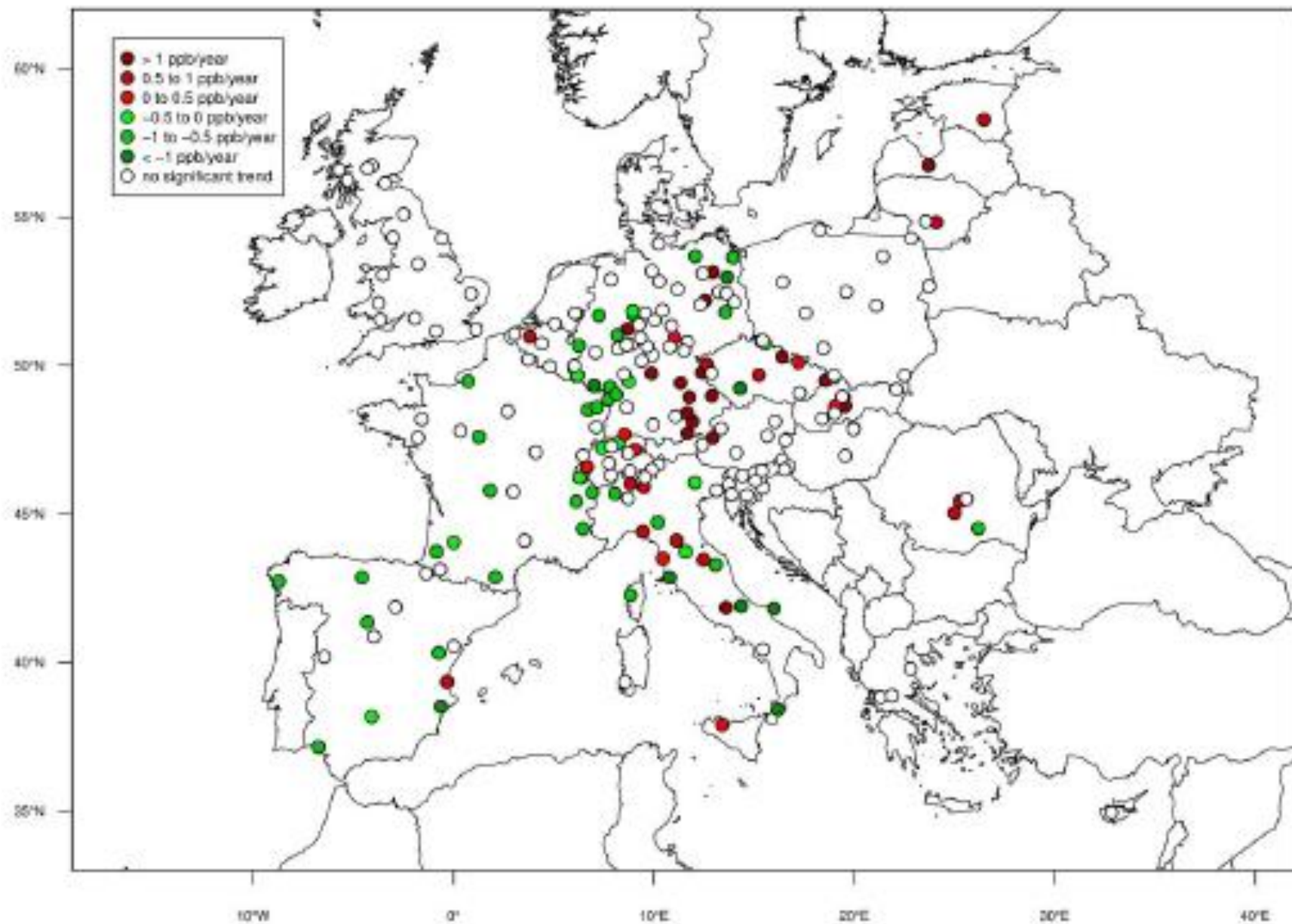
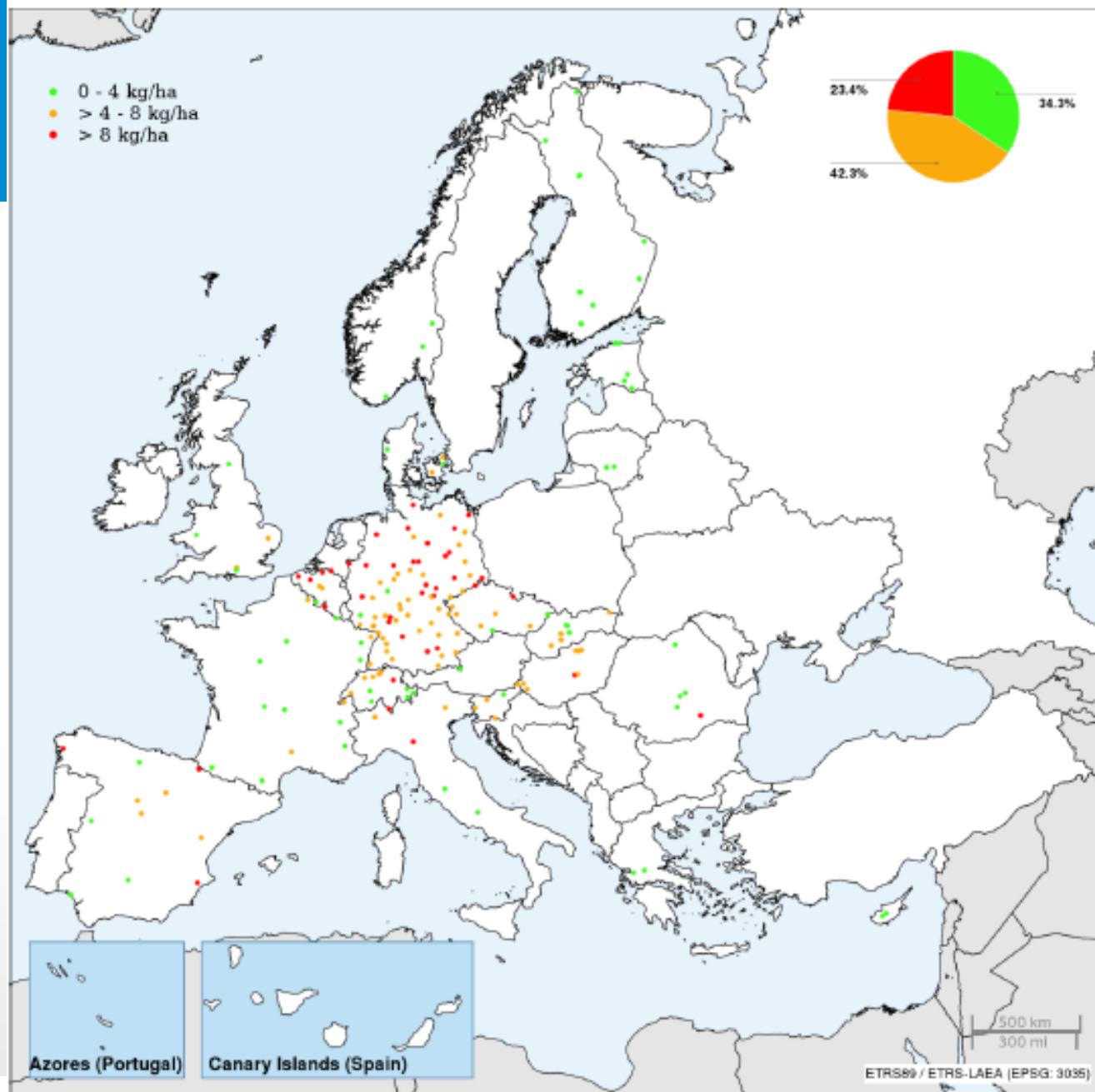


Figure 5-5. Spatial distribution of significant trends for weighted mean ozone concentrations on 203 sites with at least 4 years and 120 days per season (April–September) of data coverage from 2000-2013.

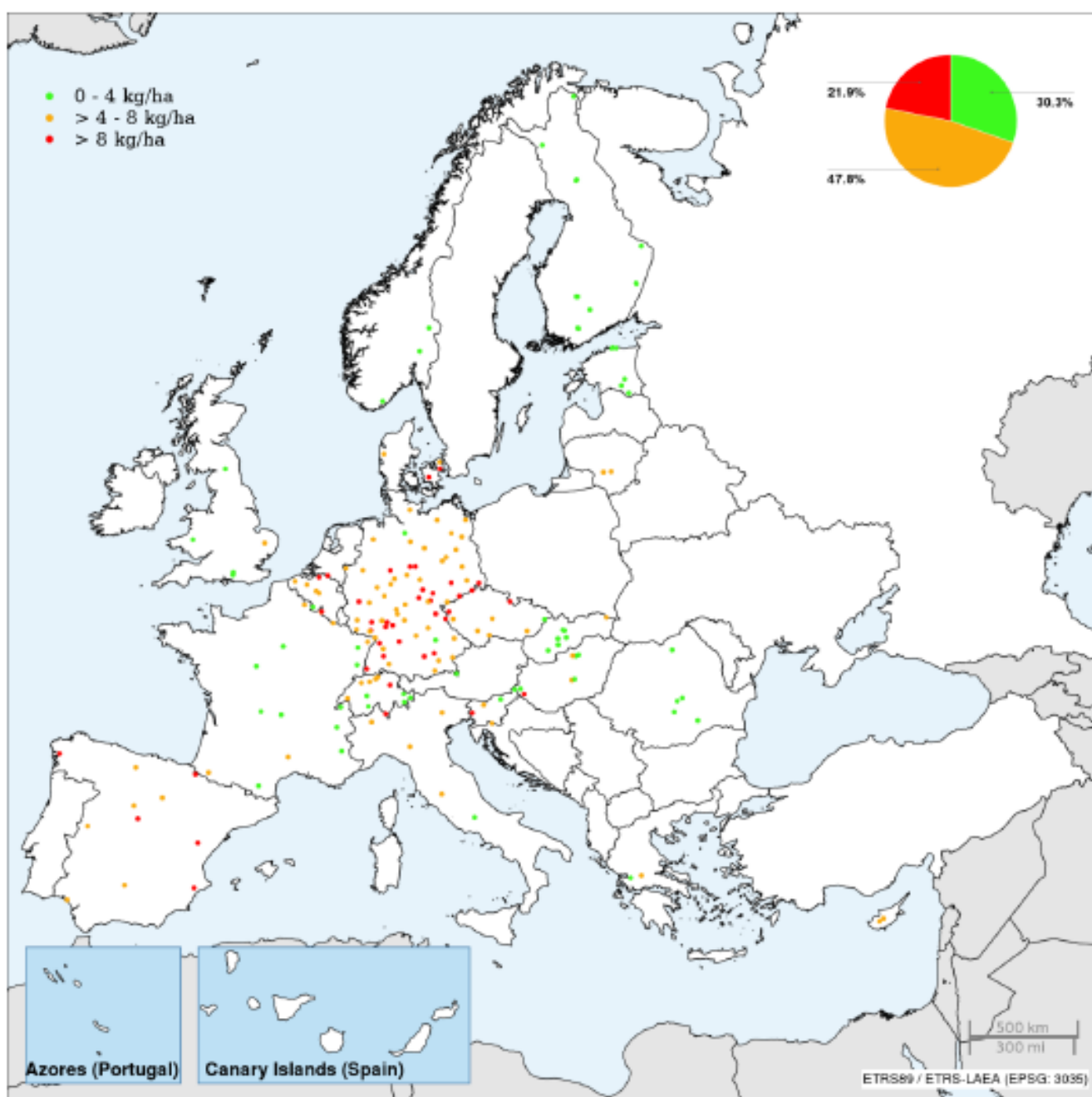
NH₄-N throughfall

Wet deposition



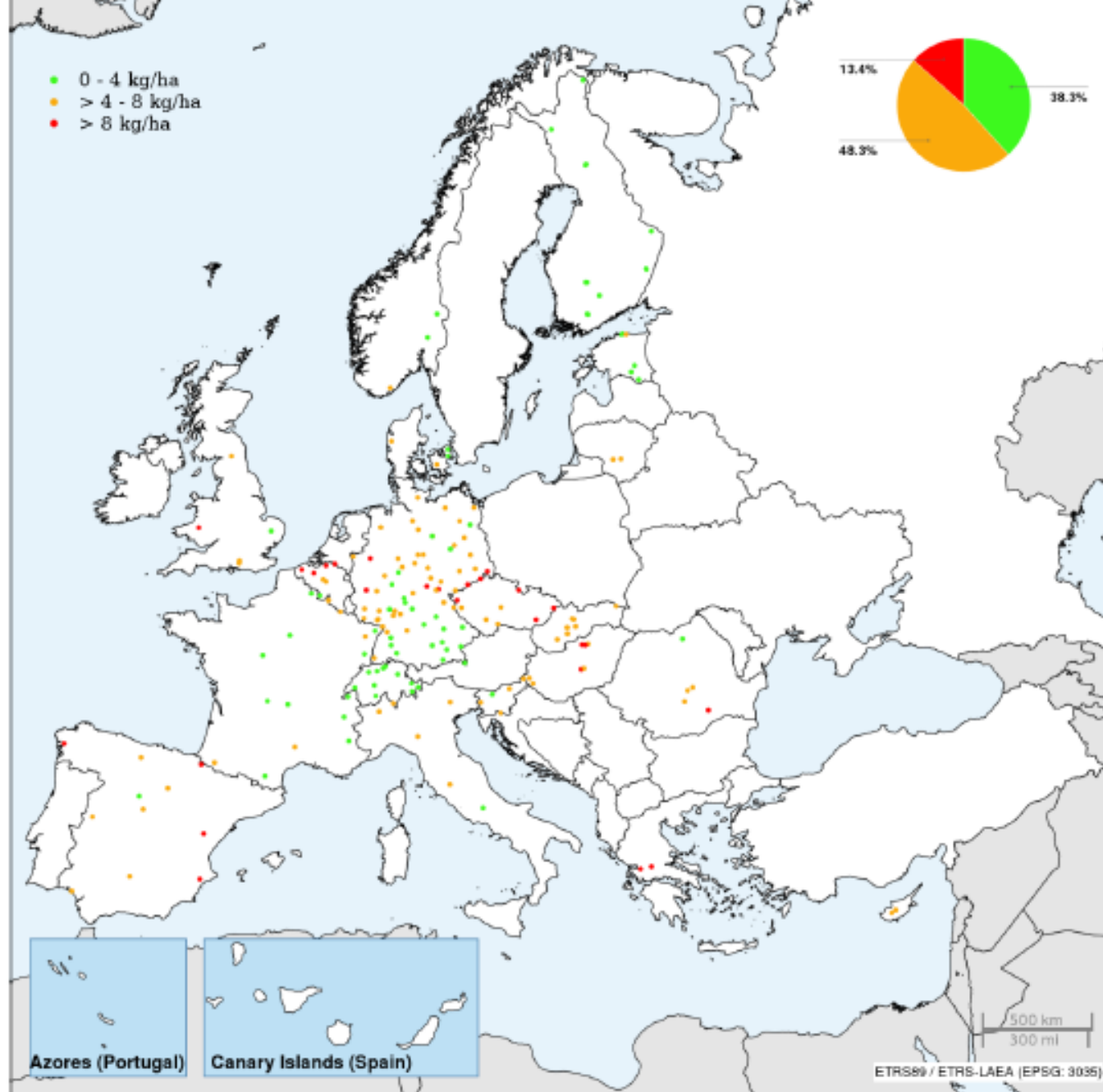
NO₃-N throughfall

Wet deposition



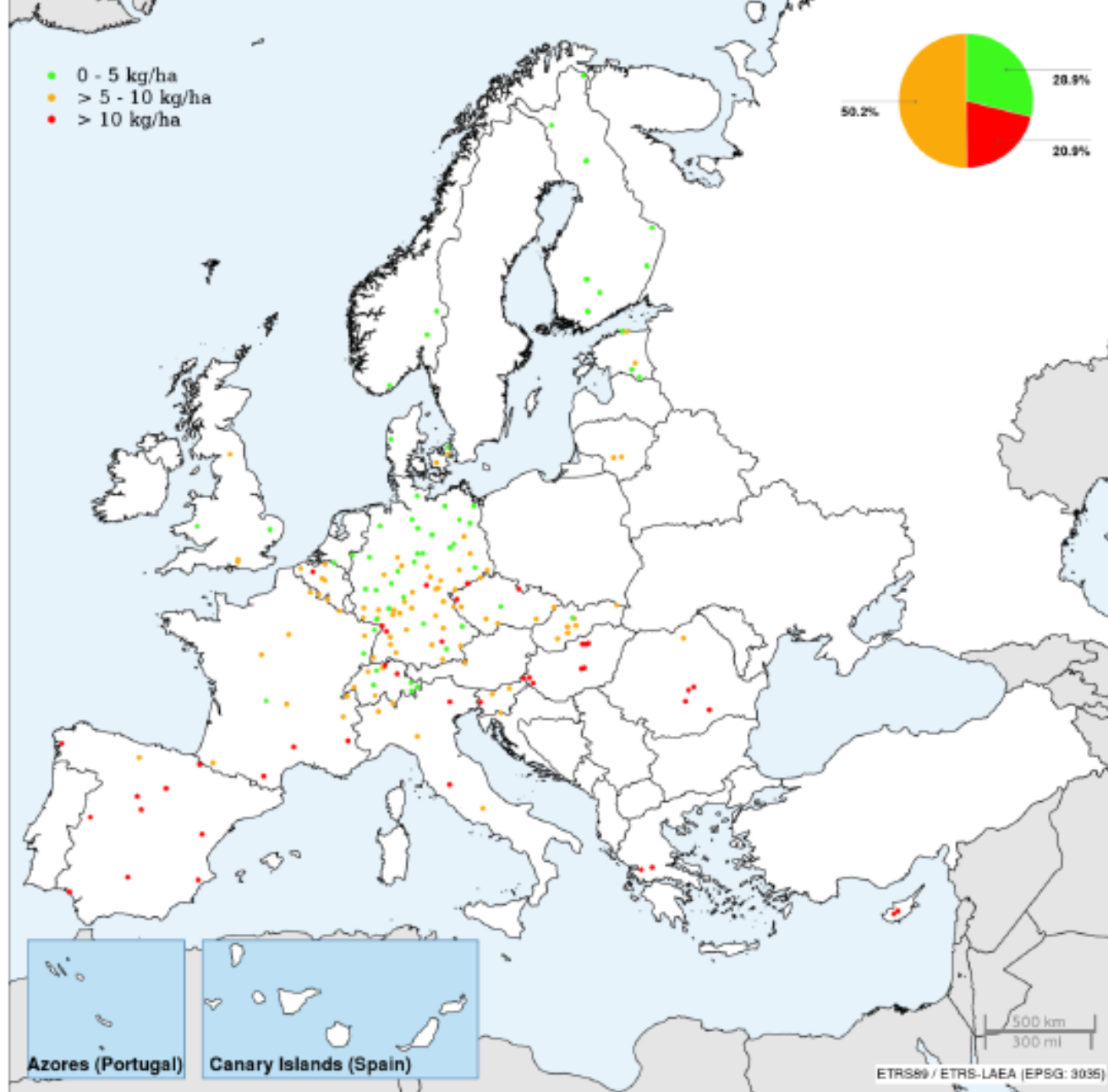
SO₄-S throughfall

Wet deposition



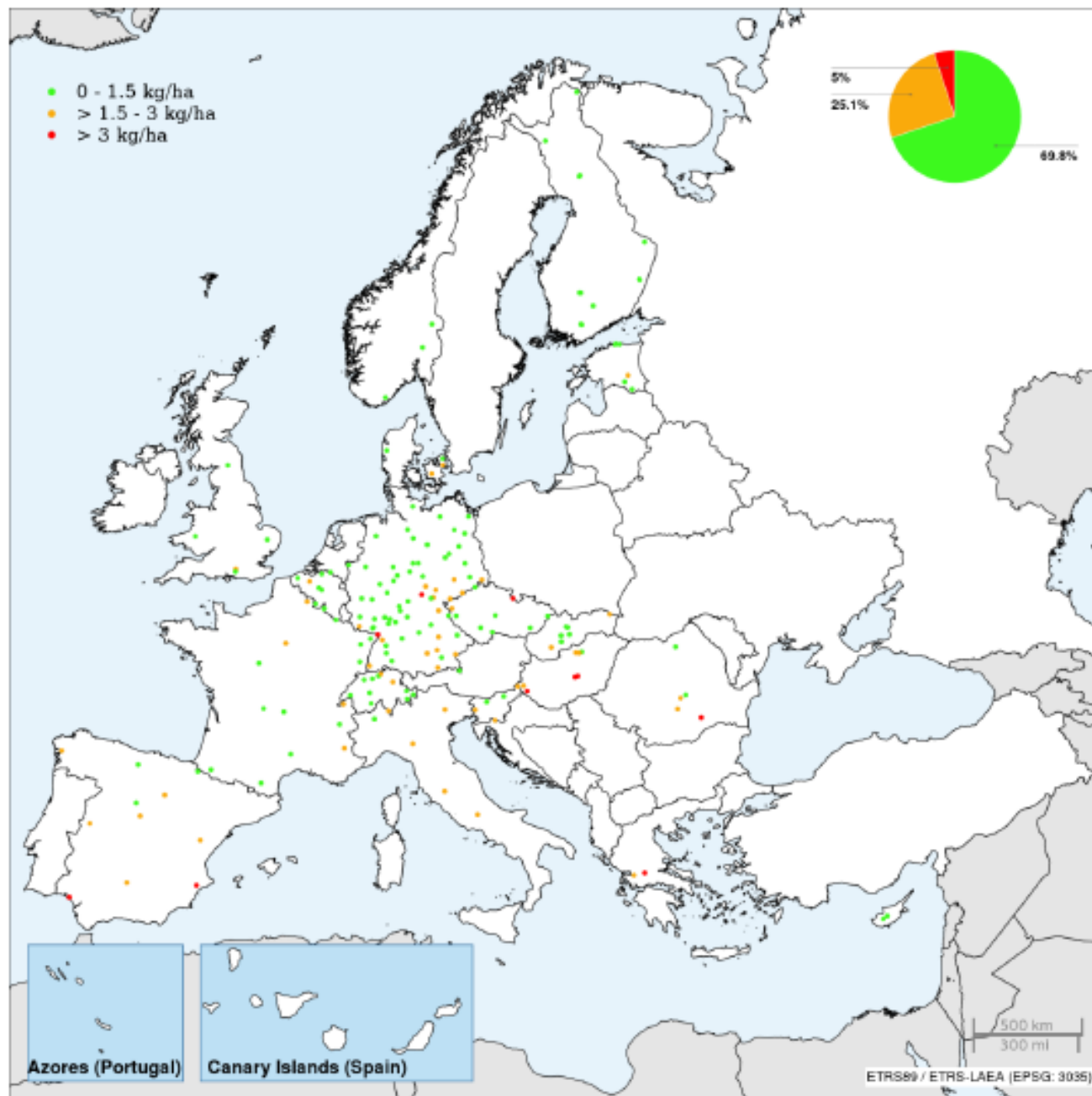
Ca (corrected) throughfall

Wet deposition



Mg (corrected) throughfall

Wet deposition



2014 Executive Report

ICP Forests



In Press

Contents:

- Forest vitality in Europe
- Forests in a changing climate
- Role and distribution of abiotic and biotic damaging agents
- Nitrogen: between pollutant and fertilizer
- Ground level ozone and its impact on European forests

THE CONDITION OF FORESTS IN EUROPE

2014 EXECUTIVE REPORT



2014

30 Years Anniversary Report



Thank you for your attention

