

Monitoring of forests in the EU

European Commission

DG Environment

http://ec.europa.eu/environment/forests/home_en.htm

Ana Suarez

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Outline

- EC needs for forest data
- Forest condition monitoring
- Forest Focus Regulation
- Monitoring of forests: FFDB and BiosoilDB
- Studies, experiments and demonstration projects I
- Forestbiota, ENFIN, Biosoil
- FF studies - JRC

Forest monitoring?

- EC needs harmonised, sound and comparable data to a coherent policy making
 - Forest condition (pollution, biodiversity, adaptation to CC)
 - Forest resources
 - Forest fires (format, terminology and definitions, fires causes classes...)

Forest condition monitoring

- In 1986 for protection against atmospheric pollution
- EC initiative started in 1992 for forest fires
 - Legal framework
 - Coordinated work between JRC and DG ENV until 2011 “forest protection and conservation” →EFFIS
 - EC needs: harmonised forest fires data
 - Formats
 - Terminology and definitions (wildfire event, land cover categories, fires causes classes, time frame)
- Last legal framework: Forest Focus Regulation (2003-2006)

Forest Focus Regulation 2003-2006

- Period covered: 2003-2006
- Budget: 65 mill €
- Data level I, level II and fire prevention
- New elements: soils, C, Climate change effects, biodiversity, protective functions

Monitoring of forests: FFDB

- Level I: foliar analysis, Crown condition, soil
 - ~6000 plots (16 km grid)
- Level II: growth, CC, soil, deposition, vegetation, foliage, SSolution
 - ~820 plots
- BioSoil database: soil and biodiversity data
 - Soil module: level I and II
 - Biodiversity: level I

Studies, experiments and demonstration projects

- New monitoring activities
- Assess impacts of climate change
- Assess impacts of biodiversity: Forest Biota
- Biodiversity indicators in NFI: ComMon
- Biosoil – soil and biodiversity modules
 - Samples already submitted
 - Expected to finish by Dec 2008

Studies

Forest biota: biodiversity test phase assessment

- 97 Level II plots in 10 MS
- Test implementation of monitoring methods for GV, epiphytic lichens, forest deadwood, structure and forest type classification

ENFIN: comparison and evaluation of monitoring methods

● **BIOSOIL:**

- Criteria and methods for harmonised sampling assess and monitoring
- Soil related data for all level I sites and 129 Level II plots, 19MS
- BD: 4234 plots level I and 21 countries, inventory of BD components (sp, canopy, deadwood, GV and f. types)

Forest focus studies - JRC

- Biosoil
- C-sequestration
- Fires severity
- Downscale BD
- Harmonization of NFI
- Protection of forests
- Forest resilience

Thank you for your attention

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