

Copernicus for agri-environmental applications

Copernicus for Climate Change: monitoring Land Use, Land Use Changes and Forestry

Applications for the Ministry of Agriculture, Fisheries and Food

Guillermo Fernández Centeno
gfcenteno@mapa.es



Updated draft Agenda of the 2nd meeting of the NRC Forests

Venue: European Environment Agency, Kongens Nytorv 6, Copenhagen DK - 1050

October 16-17, 2019

Forest-relevant EU policies

Rural Development

Civil Protection

Bioenergy

Climate change

Water

Research

Nature

Development

Biodiversity

Industry

Bio-economy

Trade



Forest Information System for Europe (FISE)

The Forest Information System for Europe (FISE) is the hub for data and information on forests and forestry in Europe

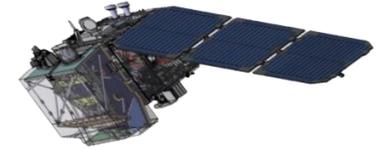
1. FOREST AND FORESTRY OFFICIAL STATISTICS: EUROSTAT, FOREST EUROPE, UNECE, UNFF, FRA-FAO, ITTO

2. NATIONAL FOREST INVENTORIES



3. COPERNICUS SERVICES





COPERNICUS SERVICES

- ATMOSPHERE
- MARINE
- LAND
 - Systematic monitoring of biophysical parameters
 - Land cover and ¿land use? Mapping
 - Thematic hot-spot mapping
 - Imagery and reference data (image mosaic in high and very high resolutions and reference datasets)
- CLIMATE CHANGE
- SECURITY
- EMERGENCY (EMS)
 - A mapping component (preparedness, prevention, disaster risk reduction, emergency response and recovery)
 - An early warning component:
 - [The European Flood Awareness System](#) (EFAS)
 - [The European Forest Fire Information System](#) (EFFIS)
 - [The European Drought Observatory](#) (EDO) (Insurances, water management, soil erosion)



Copernicus for forestry applications ongoing

National Forest Inventory and National Forest Map (SDG 15.1, 15.2)

- LULUCF, Kioto Protocol and UNFCC
 - Land Use: grasslands (including shrublands) and forest lands
 - Land Use Change (deforestation and discrimination where is an effective land use change or not)
 - Forestry
- Desertification - UNCCD
 - SDG indicator 15.3.1 (Proportion of land that is degraded over total land area) and Land Degradation Neutrality (UNCCD)
- Common Agriculture Policy. Pasture and grazing areas
 - Pasture Reduction Coefficient (Multi-temporal vegetation index series)
 - Pastures with trees and/or shrubs covered around 16 million ha of land eligible for CAP. Agroforestry Systems and Silvopastoralism

Goal 15. Protect, restore and promote sustainable use of terrestrial ecosystems, sustainably manage forests, combat desertification, and halt and reverse land degradation and halt biodiversity loss



Implementation of new forest applications from Copernicus products

- Forest Health Monitoring Program
 - ICP Forests was established in 1985
 - Invasive plant, insects, and diseases: oak decline, pine wilt nematode...
- Forest Management Monitoring Program
 - Forest Management Plans
 - Monitoring forest thinning
 - Clear-cutting and natural regeneration
 - Assessment of prescribed fire practises
- Post- Forest Fire Emergency Stabilisation Program
 - Priority areas for restoration actions
 - Monitoring restoration process



Centro Integrado de Formación Profesional de ALMÁZCARA



-  Inicio
-  Explorar
-  Notificaciones
-  Mensajes
-  Guardados
-  Listas
-  Perfil
-  Más opciones

Twitter

← **Twitter**



educación forestal
@eforestal

 **#IFPaternadelCampo**

Según estimaciones propias tomando como base imagen  **#Sentinel2** de **@CopernicusEU** de 19/09/2019 habría afectado a 1444 ha

(imagen gracias a **@sentinel_hub**)



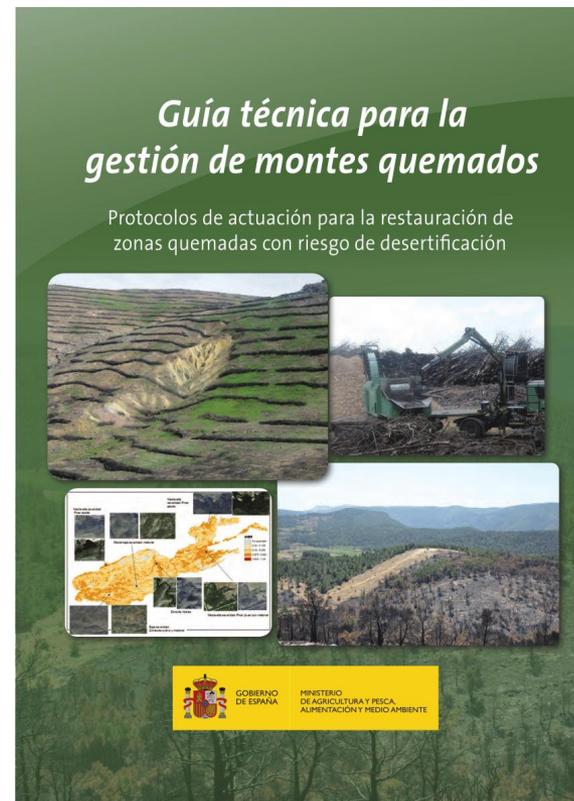
 Copernicus EMS y Sentinel Hub

10:27 p. m. · 19 sept. 2019 · Twitter Web App

21 Retweets 36 Me gusta



MAPA PUBLICATIONS (2013)



Eg. Fire Severity Index



MUCHAS GRACIAS

Guillermo Fernández Centeno
gfccenteno@mapa.es