



Online Resources

EU Space data and services for Civil Protection

Tools, documentation and training materials for each service



Funded by
the European Union

Earth Observation – Copernicus

Copernicus Emergency Management Service (CEMS)

DOCUMENTATION

CEMS Frequently Asked Questions

<https://emergency.copernicus.eu/help-support/>

CEMS Use Cases

<https://emergency.copernicus.eu/use-cases/the-copernicus-emergency-management-service/>

European Drought Observatory (EDO)

ACCESS AND TOOLS

EDO Map Viewer

<https://drought.emergency.copernicus.eu/tumbo/edo/map/>

GDO Map Viewer (Global Drought Observatory)

<https://drought.emergency.copernicus.eu/tumbo/gdo/map/>

EDO Download Indicators

<https://drought.emergency.copernicus.eu/tumbo/edo/download/>

EDID: European Drought Impact Database

<https://drought.emergency.copernicus.eu/tumbo/edid>

EDRA: European Drought Risk Atlas

<https://drought.emergency.copernicus.eu/tumbo/edra>

DOCUMENTATION

Current Drought Situation in Europe (DG JRC)

https://joint-research-centre.ec.europa.eu/european-and-global-drought-observatories/current-drought-situation-europe_en

EDO Publications

https://joint-research-centre.ec.europa.eu/european-and-global-drought-observatories/drought-reports_en

Drought Indicator Factsheets

https://joint-research-centre.ec.europa.eu/european-and-global-drought-observatories/drought-indicator-factsheets_en

EDO Use Cases

<https://emergency.copernicus.eu/use-cases/droughts-early-warning-and-monitoring/>

TRAINING AND VIDEOS

SUNSHINE Training Webinar: Galileo and CEMS for Disaster Resilience

<https://www.youtube.com/watch?v=aAwhp1tmPhw>

European Flood Awareness System (EFAS)

ACCESS AND TOOLS

EFAS Portal

<https://european-flood.emergency.copernicus.eu/>

EFAS Map Viewer

<https://european-flood.emergency.copernicus.eu/map>

Become an EFAS Partner

<https://european-flood.emergency.copernicus.eu/become-efas-partner>

GloFAS Portal (Global Flood Awareness System)

<https://global-flood.emergency.copernicus.eu/>

DOCUMENTATION

EFAS User Guide

<https://confluence.ecmwf.int/spaces/CEMS/pages/288346311/EFAS+User+Guide>

CEMS-Flood Data User Guide

<https://confluence.ecmwf.int/spaces/CEMS/pages/242067350/CEMS-Flood+Data+User+Guide>

EFAS Products Overview

<https://confluence.ecmwf.int/spaces/CEMS/pages/293701137/2+EFAS+products+overview>

GFM Overview (Global Flood Monitoring)

<https://global-flood.emergency.copernicus.eu/technical-information/glofas-gfm/>

EFAS Use Cases

<https://emergency.copernicus.eu/use-cases/floods-early-warning-and-monitoring/>

TRAINING AND VIDEOS

EFAS Webinars

<https://european-flood.emergency.copernicus.eu/webinars>

SUNSHINE Training Webinar: Using EU Space Services to Tackle Wildfires and Floods

<https://www.youtube.com/watch?v=TpkYXo6cV5Y>

European Forest Fire Information System (EFFIS)

ACCESS AND TOOLS

EFFIS Portal

<https://forest-fire.emergency.copernicus.eu/>

EFFIS Current Situation Viewer

<https://forest-fire.emergency.copernicus.eu/apps/effis.csv?c=1000000,6200000&z=5&t=sentinel2>

EFFIS Data and Services (incl. Data Request Form)

<https://forest-fire.emergency.copernicus.eu/applications/data-and-services>

GWIS Portal (Global Wildfire Information System)

<https://gwis.jrc.ec.europa.eu/>

DOCUMENTATION

EFFIS User Guide

<https://effis-gwis-cms.s3-eu-west-1.amazonaws.com/apps/effis.viewer/userguide.pdf>

EFFIS Annual Fire Reports

<https://forest-fire.emergency.copernicus.eu/reports-and-publications/annual-fire-reports>

EFFIS Use Cases

<https://emergency.copernicus.eu/use-cases/wildfires-early-warning-and-monitoring/>

TRAINING AND VIDEOS

SUNSHINE Training Webinar: Using EU Space Services to Tackle Wildfires and Floods

<https://www.youtube.com/watch?v=TpsyXo6cV5Y>

Global Human Settlement Layer (GHSL)

ACCESS AND TOOLS

GHSL Data Portal

<https://human-settlement.emergency.copernicus.eu/datasets.php>

GHSL Visualisation Tool

<https://human-settlement.emergency.copernicus.eu/visLanding.php>

GHSL Urban Centre Database

<https://human-settlement.emergency.copernicus.eu/ucdb2024Overview.php>

DOCUMENTATION

Atlas of the Human Planet 2024

<https://human-settlement.emergency.copernicus.eu/atlas2024.php>

GHSL Data Package 2023 Report

https://human-settlement.emergency.copernicus.eu/documents/GHSL_Data_Package_2023.pdf

TRAINING AND VIDEOS

EU Academy Course: The Degree of Urbanisation

<https://academy.europa.eu/courses/the-degree-of-urbanisation?lang=en>

SUNSHINE Training Webinar: Galileo and CEMS for Disaster Resilience

<https://www.youtube.com/watch?v=aAwhp1tmPhw>

Rapid Mapping Service (RM)

ACCESS AND TOOLS

CEMS Mapping Portal

<https://mapping.emergency.copernicus.eu/>

Rapid Mapping Activation Viewer

<https://mapping.emergency.copernicus.eu/activations/>

Mapping Service Timeline

<https://mapping.emergency.copernicus.eu/about/mapping-service-timeline/>

DOCUMENTATION

Authorised Users

<https://mapping.emergency.copernicus.eu/about/authorised-users/>

How to Request the Service

<https://mapping.emergency.copernicus.eu/about/how-to-request-the-service/>

Service Request Form Manual

<https://mapping.emergency.copernicus.eu/about/service-request-form-manual/>

Rapid Mapping Manual

<https://mapping.emergency.copernicus.eu/about/rapid-mapping-manual/>

Rapid Mapping Portfolio

<https://mapping.emergency.copernicus.eu/about/rapid-mapping-portfolio/>

Limitations When Using EO Data

<https://mapping.emergency.copernicus.eu/news/limitations-when-using-earth-observation-data/>

TRAINING AND VIDEOS

SUNSHINE Training Webinar: Using EU Space Services to Tackle Wildfires and Floods

<https://www.youtube.com/watch?v=TpkyXo6cV5Y>

Risk and Recovery Mapping Service (RRM)

ACCESS AND TOOLS

CEMS Mapping Portal

<https://mapping.emergency.copernicus.eu/>

Risk and Recovery Activation Viewer

<https://riskandrecovery.emergency.copernicus.eu/search/>

Mapping Service Timeline

<https://mapping.emergency.copernicus.eu/about/mapping-service-timeline/>

DOCUMENTATION

Authorised Users

<https://mapping.emergency.copernicus.eu/about/authorised-users/>

How to Request the Service

<https://mapping.emergency.copernicus.eu/about/how-to-request-the-service/>

Service Request Form Manual

<https://mapping.emergency.copernicus.eu/about/service-request-form-manual/>

Risk and Recovery Mapping Manual

<https://mapping.emergency.copernicus.eu/about/risk-and-recovery-manual/>

Risk and Recovery for Preparedness Portfolio

<https://mapping.emergency.copernicus.eu/about/risk-and-recovery-mapping-portfolio/>

Risk and Recovery for Recovery Portfolio

<https://mapping.emergency.copernicus.eu/about/recovery-mapping-portfolio/>

Limitations When Using EO Data

<https://mapping.emergency.copernicus.eu/news/limitations-when-using-earth-observation-data/>

TRAINING AND VIDEOS

SUNSHINE Training Webinar: Using EU Space Services to Tackle Wildfires and Floods

<https://www.youtube.com/watch?v=TpkYXo6cV5Y>

Satellite Navigation – Galileo

Galileo Overview

DOCUMENTATION

Galileo Services Overview

<https://www.gsc-europa.eu/galileo/services/galileo-services-overview>

Galileo Frequently Asked Questions

<https://www.gsc-europa.eu/galileo/faq>

Galileo Emergency Warning Satellite Service (EWSS)

DOCUMENTATION

Galileo EWSS Overview

<https://www.euspa.europa.eu/galileo-ewss>

Galileo EWSS Reference Documents (in force)

<https://www.gsc-europa.eu/electronic-library/programme-reference-documents/galileo-in-force/ewss>

TRAINING AND VIDEOS

SUNSHINE Training Webinar: Galileo and CEMS for Disaster Resilience

<https://www.youtube.com/watch?v=aAwhp1tmPhw>

Galileo High Accuracy Service (HAS)

ACCESS AND TOOLS

Receivers Implementing Galileo HAS

<https://www.gsc-europa.eu/support-to-developers/galileo-compatible-devices/receivers-implementing-galileo-has>

DOCUMENTATION

Galileo HAS Overview

<https://www.euspa.europa.eu/galileo-has>

Galileo HAS Reference Documents (in force)

<https://www.gsc-europa.eu/electronic-library/programme-reference-documents/galileo-in-force/has>

TRAINING AND VIDEOS

SUNSHINE Training Webinar: Galileo and CEMS for Disaster Resilience

<https://www.youtube.com/watch?v=aAwhp1tmPhw>

Galileo Open Service Navigation Message Authentication (OSNMA)

ACCESS AND TOOLS

Receivers Implementing Galileo OSNMA

<https://www.gsc-europa.eu/support-to-developers/galileo-compatible-devices/receivers-implementing-galileo-osnma>

DOCUMENTATION

Galileo OSNMA Overview

<https://www.gsc-europa.eu/galileo/services/galileo-open-service-navigation-message-authentication-osnma>

Galileo OSNMA Reference Documents (in force)

<https://www.gsc-europa.eu/electronic-library/programme-reference-documents/galileo-in-force/osnma>

TRAINING AND VIDEOS

SUNSHINE Training Webinar: Galileo and CEMS for Disaster Resilience

<https://www.youtube.com/watch?v=aAwhp1tmPhw>

Galileo Public Regulated Service (PRS)

DOCUMENTATION

Galileo PRS Overview

<https://www.gsc-europa.eu/galileo/services/public-regulated-service>

Galileo PRS in-force documentation is restricted to authorised users.

Galileo Search and Rescue (SAR)

ACCESS AND TOOLS

Receivers Implementing Galileo RLS

<https://www.gsc-europa.eu/support-to-developers/galileo-compatible-devices/receivers-implementing-galileo-rls>

DOCUMENTATION

Galileo SAR Overview

<https://www.euspa.europa.eu/galileo-sar-service>

Galileo SAR Reference Documents (in force)

<https://www.gsc-europa.eu/electronic-library/programme-reference-documents/galileo-in-force/sar>

Galileo SAR Return Link Service Infographic

https://www.euspa.europa.eu/sites/default/files/documents/Galileo_Search_and_Rescue-Return_Link_Service.pdf

TRAINING AND VIDEOS

SUNSHINE Training Webinar: Galileo and CEMS for Disaster Resilience

<https://www.youtube.com/watch?v=aAwhp1tmPhw>

Secure Satellite Communications (SATCOM)

SATCOM Overview

DOCUMENTATION

Secure Connectivity Overview

<https://eu-space.europa.eu/secure-connectivity>

Governmental Satellite Communications (EU GOVSATCOM)

DOCUMENTATION

EU GOVSATCOM Overview

<https://www.euspa.europa.eu/eu-space-programme/secure-satcom/govsatcom>

TRAINING AND VIDEOS

SUNSHINE Training Webinar: EU Space Services for Secure Communication and Space Situational Awareness

<https://www.youtube.com/watch?v=suxP6ukaEpQ>

Infrastructure for Resilience, Interconnectivity and Security by Satellite (IRIS²)

DOCUMENTATION

IRIS² Overview

<https://www.euspa.europa.eu/eu-space-programme/secure-satcom/iris2>

TRAINING AND VIDEOS

SUNSHINE Training Webinar: EU Space Services for Secure Communication and Space Situational Awareness

<https://www.youtube.com/watch?v=suxP6ukaEpQ>

Space Situational Awareness (SSA)

SSA Overview

DOCUMENTATION

Space Safety Overview

<https://eu-space.europa.eu/space-safety>

EU Space Surveillance and Tracking (EU SST)

ACCESS AND TOOLS

EU SST Website

<https://www.eusst.eu/>

DOCUMENTATION

EU SST Overview

<https://www.euspa.europa.eu/sst>

TRAINING AND VIDEOS

SUNSHINE Training Webinar: EU Space Services for Secure Communication and Space Situational Awareness

<https://www.youtube.com/watch?v=suxP6ukaEpQ>

Space Weather Service Network

ACCESS AND TOOLS

ESA Space Weather Service Network Portal

<https://swe.ssa.esa.int/>

DOCUMENTATION

ESA Space Weather Office Overview

https://www.esa.int/Space_Safety/Space_weather/Space_Weather_Office

TRAINING AND VIDEOS

SUNSHINE Training Webinar: EU Space Services for Secure Communication and Space Situational Awareness

<https://www.youtube.com/watch?v=suxP6ukaEpQ>