Las plataformas AgroClima y DataClima: una forma sencilla, intuitiva e interactiva de acceder a datos climáticos y agroclimáticos en Portugal

The AgroClima and DataClima platforms: a user-friendly and interactive way to access climatic and agroclimatic data in Portugal

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RESUMEN

Under the framework of the ECMWF's Copernicus Climate Change Service (C3S), the Portuguese Institute for the Sea and Atmosphere (IPMA), in collaboration with the +ATLANTIC CoLAB, as coordinator of the National Collaborative Programme for Portugal (NCP Portugal), developed an interactive way to access, visualize, and download relevant climate information for Portugal. By building 2 digital platforms – both with climate data from downscaled ECMWF's ERA5 reanalysis (3x3km), ECMWF's weather forecasts (9x9km) and interpolated IPMA's weather station networks, the platforms are targeted to various stakeholders, such as agriculture, agroforestry, hydrology, water management, energy, health, environment, civil protection or society. Through stakeholder consultations and the development of a continuously updated national user requirements database (URDB), NCP Portugal ensures that climate services are tailored to sectoral demands. The indicators present in both platforms vary from air temperature statistics (mean, maximum, and minimum, number of days above or below certain thresholds), total precipitation, wind speed, ground or surface temperature, relative air humidity, chill hours, soil moisture, drought and aridity indexes, evapotranspiration, among others. Led by IPMA, Portugal's national meteorological authority with long-standing operational and scientific expertise, and supported by +ATLANTIC CoLAB's agile delivery capacity, particularly in terms of translating user needs into applications and learning materials. The NCP Portugal team integrates multidisciplinary specialists in climate science, data analysis, and stakeholder engagement. Together, aim to promote climate resilience, informed policy-making, and effective use of Copernicus datasets through accessible, user-centred and operationally relevant climate services, in full alignment with the C3S vision for the future.