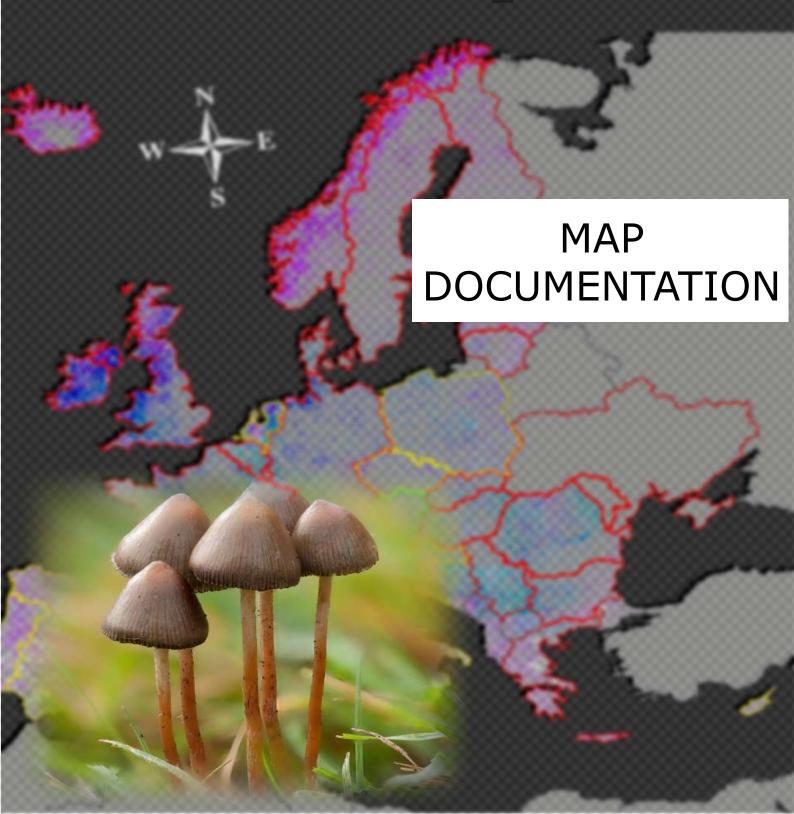
Where to find magic mushrooms in Europe



Possessing, growing and consuming magic mushrooms is currently prohibited by law in many countries.

This material and map it describes does not promote the use of any legal or illegal substances. They are made for educational and harm reduction purposes only.

Where to find magic mushrooms in Europe Map documentation

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1 Spatial Data Sources

Vector Europe polygon layer -Natural Earth - Medium scale data, 1:50m

Mean temperature raster (October, 2023) - Copernicus Interactive Climate Atlas

Soil bulk density raster -SoilGrids250m 2.0 - Bulk density aggregated 5000m

Soil pH raster -SoilGrids250m 2.0 - Soil pH in H2O aggregated 5000m

Soil organic carbon point measurements - WoSIS latest - Organic carbon

Land cover raster -CORINE Land Cover 2018 raster 100m

2 The procedure of analysis

Firstly new raster had to be interpolated from the points of measured organic carbon. It was created using IDW method with output cell size 5000m to match the ohter soil data rasters.

Rasters then had to be reclassified to match the ideal conditions for mushrooms to grow. Land cover was reclisifed to three qualitative categories.

- Best land cover Pastures, Annual crops associated with permanent crops, Land principally occupied by agriculture, with significant areas of natural vegetation, Natural grassland
- Adequate land cover Green urban areas, Vineyards, Fruit trees and berry plantations, Olive groves, Agro-forestry areas, Transitional woodland/shrub,
- Least suitable land cover Non-irrigated arable land, Permanently irrigated arable land, Rice fields, Complex cultivation patterns, Moors and heathland, Sclerophyllous vegetation, Sparsely vegetated areas, Inland marshes, Peatbogs,

This classification was conducted taking into account both the type of vegetation and the extent of human intervention in the landscape. [1]

Interpolated raster with organic carbon was reclassified to show only palces with 3% to 17%. Optimal range is 5-15% yet this interval was sligthly increased.

pH raster was reclassified to show only suitable pH levels from 4.0 to 6.0. [7]

Bulk density was reclassified to two qualitative categories. Optimal range is 0.8 - 1.0 g/cm3 and outside this interval soil suitabilty exponentially worsens. [9] So ranges 0.6 - 0.8 g/cm3 and 1.0 - 1.2 g/cm3 are also included but with half of the original weight value.

The temperature raster was classified in intervals of 1°C. Where interval 11.5-12.5°C was chosen as optimal and weight values were decreased with each following interval. Minimal suitable temperature is 8.5°C and maximal is 16.5°C. [10]

Then new raster of soil evaluation was created witch combining previously described soil rasters. They are combined with their values weighted by importance of the phenomenon [8] they show like:

- Land cover 40%
- Bulk density 25%
- Organic Carbon 20%
- pH 15%

Cells without suitable land cover are not taken into computation.

This raster was combined with temperature raster in bivariante colors. The final raster was cliped by Europe countries polygons.

3 Information sources

Psilocybe semilanceata - commonly known as the liberty cap, is both one of the most widely distributed psilocybin mushrooms in nature, and one of the most potent. In wet conditions the colour will be yellowish-brown. It has a glutinous layer which can be removed. When dried out the colour fades. The conical cap remains a similar shape throughout these changes. It has striated markings with a distinctive small nipple at the top. The thin stem can grow up to 8cm. The gills are creamy-grey at first, but as the mushroom matures they become a purple-brown.

Source: [1]

How to feel fine after consumption:

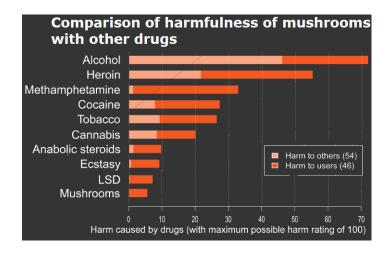
- Start with lower dosage (like 2 grams)
- Do not use if you are in a bad mood
- Use in a familiar safe space
- Have a trip-sitter with you (trusted non-using informed friend)
- Do not combine with other drugs!

Sources: [2] [3]

Possible effects on your body:

- Nasuea
- Higher body heat
- Colours seem brigther
- Short-term memory anomalies
- Objects seem moving/breathing
- Seeing visual patterns with closed eyes
- Confusion and time distortion

Sources: [2] [3]



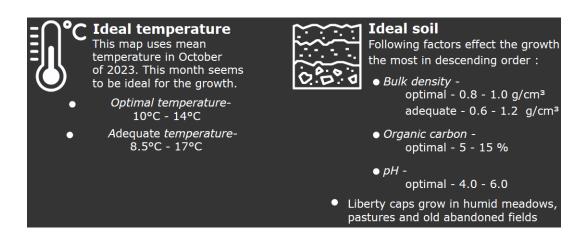
Sources: [4]

DID YOU KNOW?

That psylocibyn, the hallucinogen contained in the magic mushrooms, is experimentaly used by psychoanalysts to treat patients with depression or alcohol adiction.

Only one therapeutic session under influence of psylocybin can improve patients mood for several months.

Sources: [5] [6]



Sources: [7] [8] [9] [10] [11]

Legal status of psilocybin mushrooms [12]

- [1] Knarkkorven (2015), Nordic Liberty Cap Hunter's Field Guide.
- [2] Adam, Psychedsubstance. "Magic Mushrooms Safety-Guide (Psilocybin)" YouTube, Uploaded by Psychedsubstance, 25. 8. 2015, https://www.youtube.com/watch?v=K6QseKGAVYk.
- [3] DR. NEWCOMBE, Russel a THOMPSON, Louise, LINNELL, Michael (ed.). Magic Mushrooms. 1. U.K.: Lifeline Publications, 2004. ISBN 095200823-8.
- [4] Nutt, D.J., King, L.A., Phillips, L.D. (November 2010). "Drug harms in the UK: a multicriteria decision analysis". Lancet, 376(9752), 1558–1565. London, England. doi:10.1016/S0140-6736(10)61462-6. PMID: 21036393.
- [5] Johnson, M.W., Griffiths, R.R. Potential Therapeutic Effects of Psilocybin. Neurotherapeutics 14, 734–740 (2017). https://doi.org/10.1007/s13311-017-0542-y

- [6] ERRITZOE, David; ROSEMAN, L.; NOUR, M. M.; MACLEAN, K.; KAELEN, M. et al. Effects of psilocybin therapy on personality structure. Acta Psychiatrica Scandinavica. 2024, roč. 149, č. 5, s. 368-378. ISSN 1600-0447.
- [7] Gartz, J., Appelius, C., Taake, C., Falk, B. (1996). Magic Mushrooms Around the World: A Scientific Journey Across Cultures and Time: the Case for Challenging Research and Value Systems. LIS Publications.
- [8] Guzman, G. (1983). The Genus Psilocybe: A Systematic Revision of the Known Species Including the History, Distribution and Chemistry of the Hallucinogenic Species . J. Cramer.
- [9] Li, C. H., Ma, B. L., Zhang, T. Q. (2002). Soil bulk density effects on soil microbial populations and enzyme activities during the growth of maize (Zea mays L.) planted in large pots under field exposure. Canadian journal of soil science, 82(2), 147-154.
- [10] Boddy, L., Büntgen, U., Egli, S., Gange, A. C., Heegaard, E., Kirk, P. M., ... Kauserud, H. (2014). Climate variation effects on fungal fruiting. Fungal Ecology, 10, 20-33.
- [11] Keay, S. M., Brown, A. E. (1990). Colonization by Psilocybe semilanceata of roots of grassland flora. Mycological Research, 94(1), 49-56.
- [12] Legal status of psilocybin mushrooms. Online. In: Wikipedia: the free encyclopedia. San Francisco (CA): Wikimedia Foundation, 2001-. Dostupné z: https://en.wikipedia.org/wiki/Legal $_s$ tatus $_o$ f $_p$ silocybin $_m$ ushrooms. [cit. 2024-04-06].

4 Image Sources



https://www.foraging.co.uk/



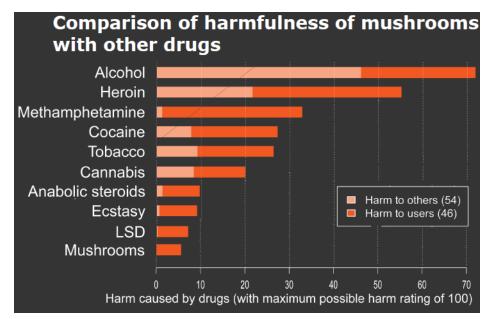
Warning Hex Filled SVG Vector, svgrepo.com, Carbon Design



Melting smiley face by Ella Mitchell



Hallucination icon created by Freepik - Flaticon



Nutt, D.J., King, L.A., Phillips, L.D. (November 2010). "Drug harms in the UK: a multicriteria decision analysis". Lancet, 376(9752), 1558–1565. London, England. doi:10.1016/S0140-6736(10)61462-6. PMID: 21036393.



Soil icon - freepik.com - Icon by ultimatearm



Thermometer icon - created by Freepik - Flaticon

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Sea horse icon by Icons8



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Octopus icon by Icons8



Dolphin icon - freepik.com - Icon by - Ida Desi Mariana



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