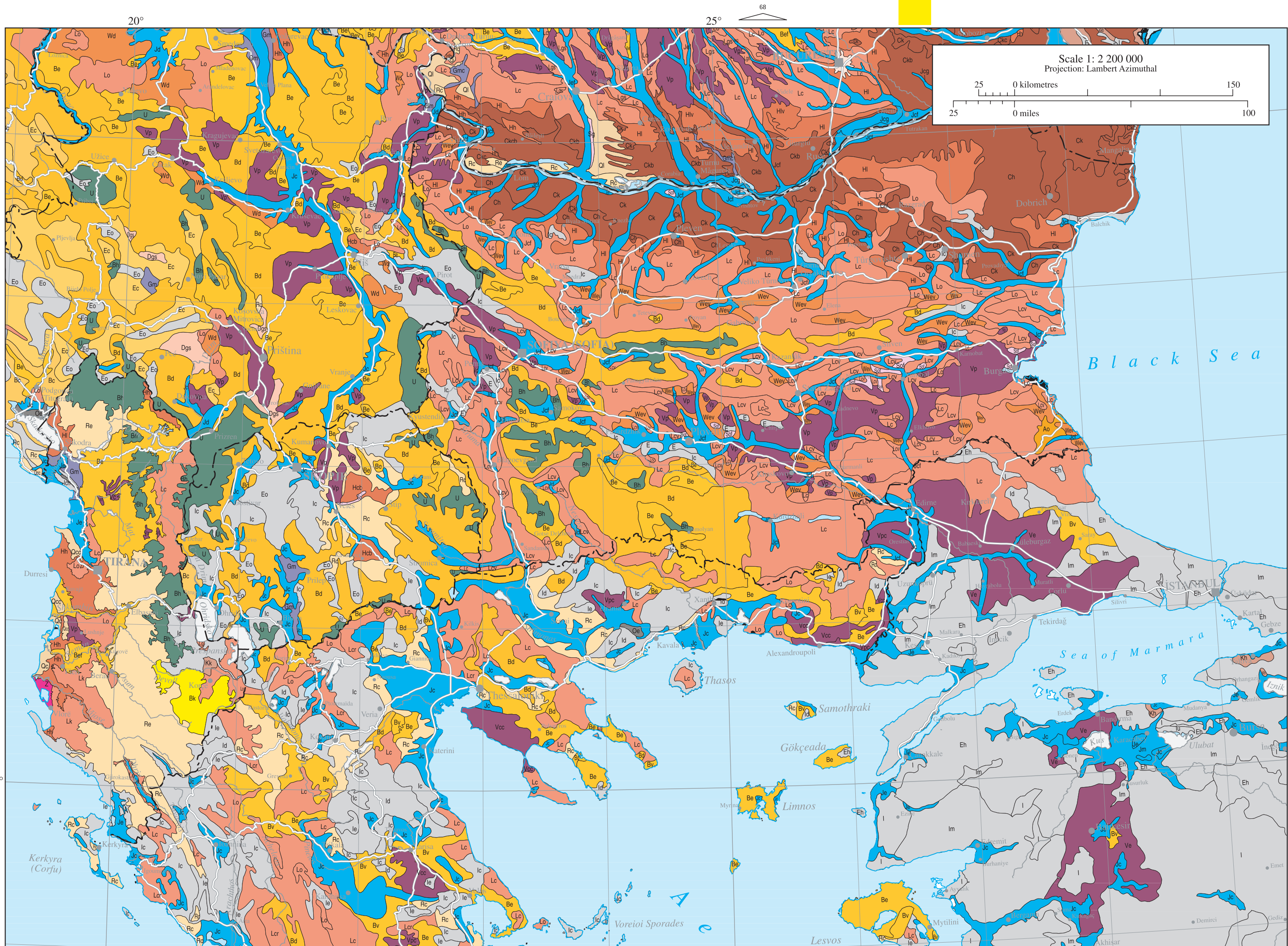






Soil maps of Europe

Map Legend

|                          |                           |
|--------------------------|---------------------------|
| International boundary   | <div></div>               |
| Major road               | <div></div>               |
| Major river              | <div>Po</div>             |
| National capital         | <div>ROMA (ROME)</div>    |
| Locality (by population) |                           |
| 1 000 000 – 5 000 000    | <div>MILANO (MILAN)</div> |
| 250 000 – 1 000 000      | <div>Verona</div>         |
| 100 000 – 250 000        | <div>Novara</div>         |
| 25 000 – 100 000         | <div>Verbania</div>       |
| 10 000 – 25 000          | <div>Ispra</div>          |

How does the legend work?

A legend is intended to ease the understanding of a soil map and consists typically of a symbol or a series of symbols within a specific colour repeated on the map sheets and consistent over all the maps presented. It is followed by the name of the dominant soil in the mapping unit, the characteristics of which can be deduced from the tables included in the soil classification section.

The symbols used in the legend are those that appeared on the original Soil Map of Europe at 1:1 million scale in 1985. However, since then the soil classification scheme has changed and the names of the units represented have been reclassified in the World Reference Base. This may have led to small errors in boundaries between some units, while the correlation itself between the two systems may not be perfect in places. The colours corresponding with each Reference Soil Group are those used by the Food and Agriculture Organization (FAO), with slight modifications.

Example: Gmc Calcari-mollic Gleysol

The colour of all Gleysols is dark blue and they are all having the symbol G indicating the dominant soil in the unit. (Note that not all Reference Soil Groups in the legend have the same letter symbol as some have been correlated with different soil types due to differences between the soil classification used).

All mapping units with the symbol Gmc would have as dominant soil Calcari-mollic Gleysols characterized by a high water table for a long time during the year, being calcareous between 20 and 50 cm depth and having a nutrient- and organic carbon-rich, dark coloured topsoil.

WRB Major Reference Group Legend

|  |             |
|--|-------------|
|  | Acrisol     |
|  | Albeluvisol |
|  | Andosol     |
|  | Anthrosol   |
|  | Arenosol    |
|  | Calcisol    |
|  | Cambisol    |
|  | Chernozem   |
|  | Cryosol     |
|  | Fluvisol    |
|  | Kastanozem  |
|  | Gleysol     |
|  | Gypsisol    |
|  | Histosol    |
|  | Leptosol    |
|  | Luvisol     |
|  | Phaeozem    |
|  | Planosol    |
|  | Podzol      |
|  | Regosol     |
|  | Solonchak   |
|  | Solonetz    |
|  | Umbrisol    |
|  | Vertisol    |

Codes for soil types on regional maps

|        |                              |
|--------|------------------------------|
| A      | Acrisol                      |
| Ag     | Gleyic Acrisol               |
| Ah     | Humic Acrisol                |
| Ao     | Haplic Acrisol               |
| D      | Albeluvisol                  |
| Dd     | Haplic Albeluvisol           |
| De     | Endoeutric Albeluvisol       |
| Dg     | Gleyic Albeluvisol           |
| Dge    | Endoeutri-gleyic Albeluvisol |
| Dgs    | Stagnic Albeluvisol          |
| To     | Acroxic Andosol              |
| Tg     | Gleyic Andosol               |
| Th     | Umbric Andosol               |
| Tha    | Haplic Andosol               |
| Tv     | Vitric Andosol               |
| ATc    | Terric Anthrosol             |
| ATa    | Arenic Anthrosol             |
| Q      | Arenosol                     |
| Qa     | Albic Arenosol               |
| Qc     | Haplic Arenosol              |
| Qcc    | Calcaric Arenosol            |
| Qcd    | Dystric Arenosol             |
| Ql     | Lamellic Arenosol            |
| Qld    | Dystri-lamellic Arenosol     |
| Bcl    | Luvic Calcisol               |
| Bk/Bkh | Haplic Calcisol              |
| Bkv    | Vertic Calcisol              |
| Xk     | Aridic Calcisol              |
| Bc     | Chromic Cambisol             |
| Bcc    | Chromi-calcaric Cambisol     |
| Bd     | Dystric Cambisol             |
| Bda    | Dystri-andic Cambisol        |
| Be     | Eutric Cambisol              |
| Bea    | Eutri-andic Cambisol         |
| Bef    | Eutri-fluvic Cambisol        |

|                  |                         |
|------------------|-------------------------|
| Beg              | Eutri-gleyic Cambisol   |
| Bev              | Eutri-vertic Cambisol   |
| Bg               | Gleyic Cambisol         |
| Bgc              | Calcari-gleyic Cambisol |
| Bgg              | Stagnic Cambisol        |
| Bgv              | Gleyi-vertic Cambisol   |
| Bkf              | Calcari-fluvic Cambisol |
| Bv               | Vertic Cambisol         |
| Bvc              | Calcari-vertic Cambisol |
| Ba/Bec/Ec        | Calcaric Cambisol       |
| Bx               | Gelic Cambisol          |
| Geh              | Eutri-stagnic Cambisol  |
| Gs               | Stagnic Cambisol        |
| C                | Chernozem               |
| Ch               | Chernic Chernozem       |
| Ck/Ckc           | Calcic Chernozem        |
| Ckb              | Vermi-calcic Chernozem  |
| Ckeb             | Vermi-calcic Chernozem  |
| Cl               | Luvic Chernozem         |
| Gx               | Gleyic Cryosol          |
| Rx               | Haplic Cryosol          |
| Jc/Jcf           | Calcaric Fluvisol       |
| Jcg              | Calcari-gleyic Fluvisol |
| Jd               | Dystric Fluvisol        |
| Jdg              | Histic Fluvisol         |
| Je/Jef           | Eutric Fluvisol         |
| Jeg              | Eutri-gleyic Fluvisol   |
| Jm               | Mollic Fluvisol         |
| Jmg              | Molli-gleyic Fluvisol   |
| Jt               | Thionic Fluvisol        |
| Gc               | Calcaric Gleysol        |
| Gd               | Dystric Gleysol         |
| Gds <sup>1</sup> | Dystri-stagnic Gleysol  |
| Ge               | Eutric Gleysol          |
| Gef              | Eutri-fluvic Gleysol    |
| Ges <sup>1</sup> | Eutri-stagnic Gleysol   |

|                     |                         |         |                         |     |                                                                                                                                                                                                           |
|---------------------|-------------------------|---------|-------------------------|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Gev                 | Eutri-vertic Gleysol    | Lo      | Haplic Luvisol          | Sof | Fluvic Solonetz                                                                                                                                                                                           |
| Gfm                 | Fluvi-mollic Gleysol    | Lv      | Vertic Luvisol          | U   | Umbrisol                                                                                                                                                                                                  |
| Gh/Ghh <sup>2</sup> | Humic Gleysol           | Lvk     | Calci-vertic Luvisol    | Bh  | Haplic Umbrisol                                                                                                                                                                                           |
| Gm                  | Mollic Gleysol          | Hc/Hcb  | Calcari Phaeozem        | Ud  | Leptic Umbrisol                                                                                                                                                                                           |
| Gmc                 | Calcari-mollic Gleysol  | Hcf     | Calcari-fluvic Phaeozem | Qh  | Arenic Umbrisol                                                                                                                                                                                           |
| Gmf                 | Fluvi-mollic Gleysol    | Hcn     | Sodic Phaeozem          | Bds | Endoskeletal Umbrisol                                                                                                                                                                                     |
| Gtz                 | Thionic Gleysol         | Hg      | Gleyic Phaeozem         | Vcc | Calcari-chromic Vertisol                                                                                                                                                                                  |
| Xy                  | Aridic Gypsisol         | Hgc     | Calcari-gleyic Phaeozem | Vc  | Chromic Vertisol                                                                                                                                                                                          |
| Od                  | Dystic Histosol         | Hgs     | Stagnic Phaeozem        | Ve  | Eutric Vertisol                                                                                                                                                                                           |
| Oe                  | Eutric Histosol         | Hh/Ho   | Haplic Phaeozem         | Vg  | Gleyic Vertisol                                                                                                                                                                                           |
| Ox                  | Gelic Histosol          | HI/Lh   | Luvic Phaeozem          | Vk  | Calcic Vertisol                                                                                                                                                                                           |
| Kh                  | Haplic Kastanozem       | Hlv     | Luvi-vertic Phaeozem    | Vp  | Pellic Vertisol                                                                                                                                                                                           |
| Kk                  | Calcic Kastanozem       | Mo      | Greyic Phaeozem         | Vpc | Calcari-pellic Vertisol                                                                                                                                                                                   |
| Kkb                 | Vermi-calcic Kastanozem | Wd      | Dystic Planosol         | Vpg | Gleyi-vertic Vertisol                                                                                                                                                                                     |
| Kl                  | Luvic Kastanozem        | We      | Eutric Planosol         |     | Urban                                                                                                                                                                                                     |
| E                   | Leptosol                | Wev     | Eutri-vertic Planosol   | sdm | Soil disturbed by man                                                                                                                                                                                     |
| Eh/Eo               | Rendzic Leptosol        | Wm      | Mollic Planosol         |     | Water body                                                                                                                                                                                                |
| I                   | Lithic Leptosol         | Pg      | Gleyic Podzol           | m   | Marsh                                                                                                                                                                                                     |
| Ic/Ich              | Calcari-lithic Leptosol | Pgh     | Histic Podzol           | g   | Glacier                                                                                                                                                                                                   |
| Id                  | Dystri-lithic Leptosol  | Pgs     | Stagnic Podzol          | r   | Rock outcrops                                                                                                                                                                                             |
| Ie                  | Euri-lithic Leptosol    | Ph      | Carbic Podzol           |     |                                                                                                                                                                                                           |
| Im                  | Molli-lithic Leptosol   | Phf/Po  | Haplic Podzol           |     |                                                                                                                                                                                                           |
| Io                  | Hapli-lithic Leptosol   | Pl      | Episkeletic Podzol      |     |                                                                                                                                                                                                           |
| Iu                  | Umbri-lithic Leptosol   | Plh/Pof | Skeleti-umbric Podzol   |     |                                                                                                                                                                                                           |
| Lgs/Gls             | Stagnic Luvisol         | Poh     | Rustic Podzol           |     |                                                                                                                                                                                                           |
| La                  | Albic Luvisol           | Pp      | Placic Podzol           |     |                                                                                                                                                                                                           |
| Lc                  | Chromic Luvisol         | Rc      | Calcari Regosol         |     |                                                                                                                                                                                                           |
| Lcr                 | Rhodic Luvisol          | Rd      | Dystic Regosol          |     |                                                                                                                                                                                                           |
| Lcv                 | Chromi-vertic Luvisol   | Re      | Eutric Regosol          |     |                                                                                                                                                                                                           |
| Ldg                 | Dystri-gleyic Luvisol   | RI      | Leptic Regosol          |     |                                                                                                                                                                                                           |
| Lf                  | Ferric Luvisol          | Z       | Solonchak               |     |                                                                                                                                                                                                           |
| Lg/Lgp              | Gleyic Luvisol          | Zg      | Gleyic Solonchak        |     |                                                                                                                                                                                                           |
| Lga                 | Albi-gleyic Luvisol     | Zo      | Haplic Solonchak        |     |                                                                                                                                                                                                           |
| Lk                  | Calcic Luvisol          | Sg      | Gleyic Solonetz         |     | <sup>1</sup> Recent re-evaluation of this soil type has lead to a re-classification as Stagnic Cambisol, because of slowly permeable subsoil that causes stagnating water to create a perched watertable. |
| Lkc                 | Chromi-calcic Luvisol   | Sm      | Mollic Solonetz         |     | <sup>2</sup> Recent re-evaluation of this soil type has lead a re-classification as Stagnic Umbrisol in the British Islands, where they have slowly permeable subsoil causing a perched watertable.       |
| Lkcr                | Rhodi-calcic Luvisol    | So      | Haplic Solonetz         |     |                                                                                                                                                                                                           |