Soil maps of Europe

International boundary Major road Major river National capital ROMA (ROME) Locality (by population) 1 000 000 - 5 000 000 ■ MILANO (MILAN) 250 000 - 1 000 000 Verona 100 000 - 250 000 Novara 25 000 - 100 000 Verbania

How does the legend work?

10 000 - 25 000

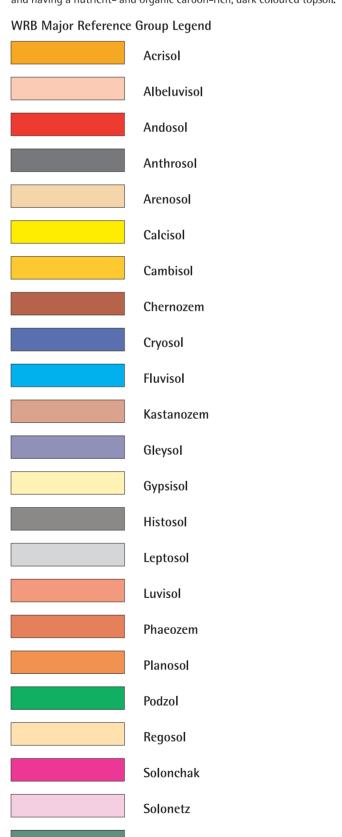
A legend is intended to ease the understanding of a soil map and consists typically of a symbol or a series of symbols within a specific colour repeated on the map sheets and consistent over all the maps presented. It is followed by the name of the dominant soil in the mapping unit, the characteristics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



Umbrisol

Vertisol

Codes for soil types on regional maps		Beg	Eutri-gleyic Cambisol
А	Acrisol	Bev	Eutri-vertic Cambisol
Ag	Gleyic Acrisol	Bg	Gleyic Cambisol
Ah	Humic Acrisol	Bgc	Calcari-gleyic Cambisol
Ao	Haplic Acrisol	Bgg	Stagnic Cambisol
D	Albeluvisol	Bgv	Gleyi-vertic Cambisol
Dd	Haplic Albeluvisol	Bkf	Calcari-fluvic Cambisol
De	Endoeutric Albeluvisol	Bv	Vertic Cambisol
Dg	Gleyic Albeluvisol	Bvc	Calcari-vertic Cambisol
Dge	Endoeutri-gleyic Albeluvisol	Ba/Bec/Ec	Calcaric Cambisol
Dgs	Stagnic Albeluvisol	Вх	Gelic Cambisol
То	Acroxic Andosol	Geh	Eutri-stagnic Cambisol
Тд	Gleyic Andosol	Gs	Stagnic Cambisol
Th	Umbric Andosol	С	Chernozem
Tha	Haplic Andosol	Ch	Chernic Chernozem
Tv	Vitric Andosol	Ck/Ckc	Calcic Chernozem
ATc	Terric Anthrosol	Ckb	Vermi-calcic Chernozem
ATa	Arenic Anthrosol	Ckeb	Vermi-calcic Chernozem
Q	Arenosol	CI	Luvic Chernozem
Qa	Albic Arenosol	Gx	Gleyic Cryosol
Qc	Haplic Arenosol	Rx	Haplic Cryosol
Qcc	Calcaric Arenosol	Je/Jef	Calcaric Fluvisol
Qcd	Dystric Arenosol	Jeg	Calcari-gleyic Fluvisol
Øl	Lamellic Arenosol	Jd	Dystric Fluvisol
Qld	Dystri-lamellic Arenosol	Jdg	Histic Fluvisol
Bel	Luvic Calcisol	Je/Jef	Eutric Fluvisol
Bk/Bkh	Haplic Calcisol	Jeg	Eutri-gleyic Fluvisol
Bkv	Vertic Calcisol	Jm	Mollic Fluvisol
Xk	Aridic Calcisol	Jmg	Molli-gleyic Fluvisol
Вс	Chromic Cambisol	Jt	Thionic Fluvisol
Всс	Chromi-calcaric Cambisol	Gc	Calcaric Gleysol
Bd	Dystric Cambisol	Gd	Dystric Gleysol
Bda	Dystri-andic Cambisol	Gds ¹	Dystri-stagnic Gleysol
Ве	Eutric Cambisol	Ge	Eutric Gleysol
Bea	Eutri-andic Cambisol	Gef	Eutri-fluvic Gleysol
Bef	Eutri-fluvic Cambisol	Ges ¹	Eutri-stagnic Gleysol

Lc

Lcr

Lcv

Ldg

Lf

Lg/Lgp

Lga

Lk

Lkc

Lkcr

Chromic Luvisol

Rhodic Luvisol

Chromi-vertic Luvisol

Dystri-gleyic Luvisol

Ferric Luvisol

Gleyic Luvisol

Calcic Luvisol

Albi-gleyic Luvisol

Chromi-calcic Luvisol

Rhodi-calcic Luvisol

			ı			ı
					Soil maps of Europe	
Gev	Eutri-vertic Gleysol	Lo	Haplic Luvisol	Sof	Fluvic Solonetz	
Gfm	Fluvi-mollic Gleysol	Lv	Vertic Luvisol	U	Umbrisol	
Gh/Ghh ²	Humic Gleysol	Lvk	Calci-vertic Luvisol	Bh	Haplic Umbrisol	
Gm	Mollic Gleysol	He/Heb	Calcaric Phaeozem	Ud	Leptic Umbrisol	
Gmc	Calcari-mollic Gleysol	Hcf	Calcari-fluvic Phaeozem	Qh	Arenic Umbrisol	
Gmf	Fluvi-mollic Gleysol	Hen	Sodic Phaeozem	Bds	Endoskeletic Umbrisol	
Gtz	Thionic Gleysol	Hg	Gleyic Phaeozem	Vec	Calcari-chromic Vertisol	
Ху	Aridic Gypsisol	Hgc	Calcari-gleyic Phaeozem	Vc	Chromic Vertisol	
Od	Dystric Histosol	Hgs	Stagnic Phaeozem	Ve	Eutric Vertisol	
0e	Eutric Histosol	Hh/Ho	Haplic Phaeozem	Vg	Gleyic Vertisol	
0x	Gelic Histosol	HI/Lh	Luvic Phaeozem	Vk	Calcic Vertisol	
Kh	Haplic Kastanozem	HIv	Luvi-vertic Phaeozem	Vp	Pellic Vertisol	
Kk	Calcic Kastanozem	Мо	Greyic Phaeozem	Vpc	Calcari-pellic Vertisol	
Kkb	Vermi-calcic Kastanozem	Wd	Dystric Planosol	Vpg	Gleyi-vertic Vertisol	
KI	Luvic Kastanozem	We	Eutric Planosol		Urban	
Е	Leptosol	Wev	Eutri-vertic Planosol	sdm	Soil disturbed by man	
Eh/Eo	Rendzic Leptosol	Wm	Mollic Planosol		Water body	
1	Lithic Leptosol	Pg	Gleyic Podzol	m	Marsh	
lc/lch	Calcari-lithic Leptosol	Pgh	Histic Podzol	g	Glacier	
Id	Dystri-lithic Leptosol	Pgs	Stagnic Podzol	r	Rock outcrops	
le	Euri-lithic Leptosol	Ph	Carbic Podzol			
lm	Molli-lithic Leptosol	Phf/Po	Haplic Podzol			
lo	Hapli-lithic Leptosol	PI	Episkeletic Podzol			
lu	Umbri-lithic Leptosol	Plh/Pof	Skeleti-umbric Podzol			
Lgs/Gls	Stagnic Luvisol	Poh	Rustic Podzol			
La	Albic Luvisol	Рр	Placic Podzol			

Calcaric Regosol

Dystric Regosol

Eutric Regosol

Leptic Regosol

Gleyic Solonchak

Haplic Solonchak

Gleyic Solonetz

Mollic Solonetz

Haplic Solonetz

Solonchak

Rc

Rd

Re

RI

Zg

Zo

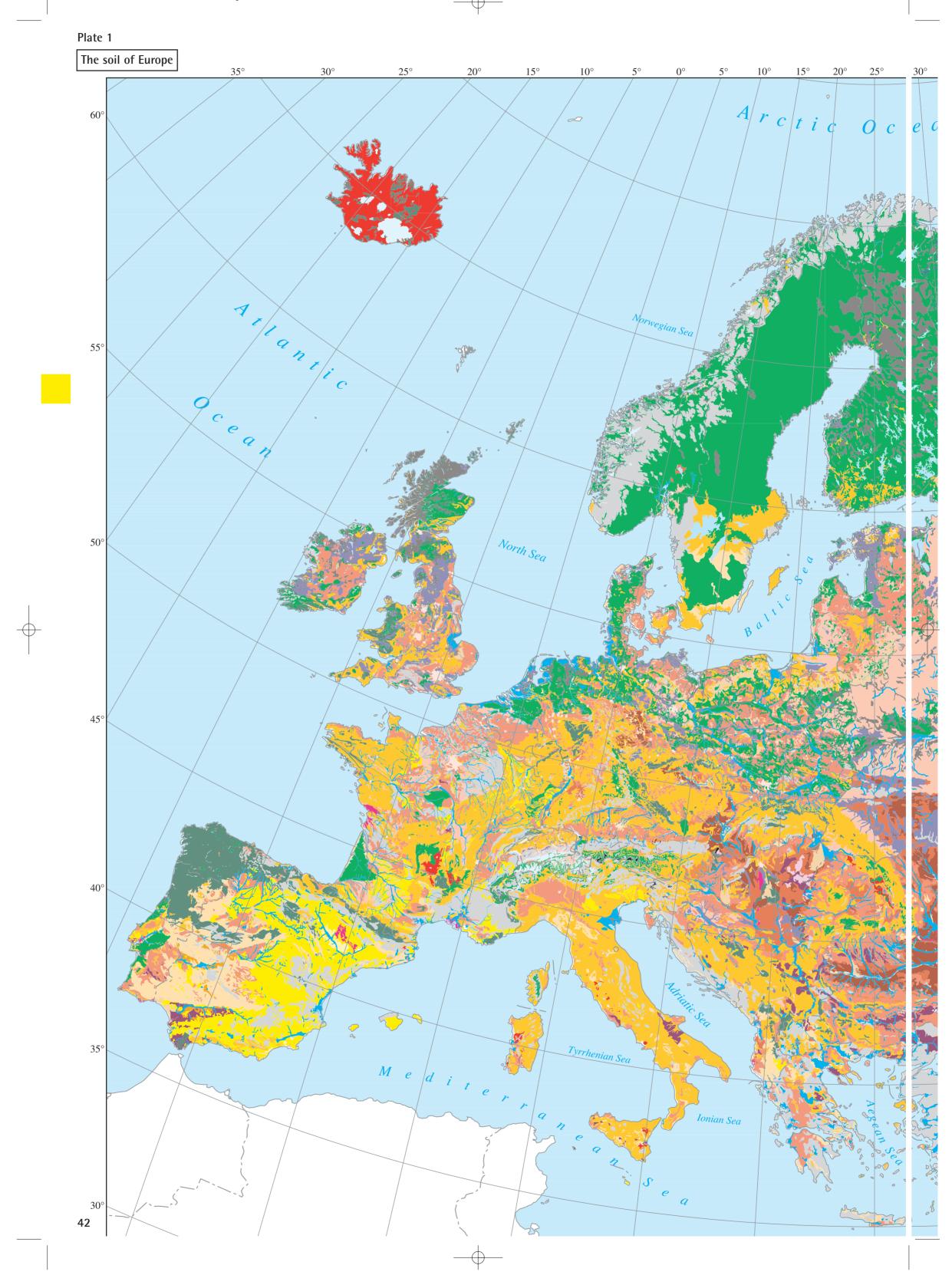
Sg

Sm

So

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.

² 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.



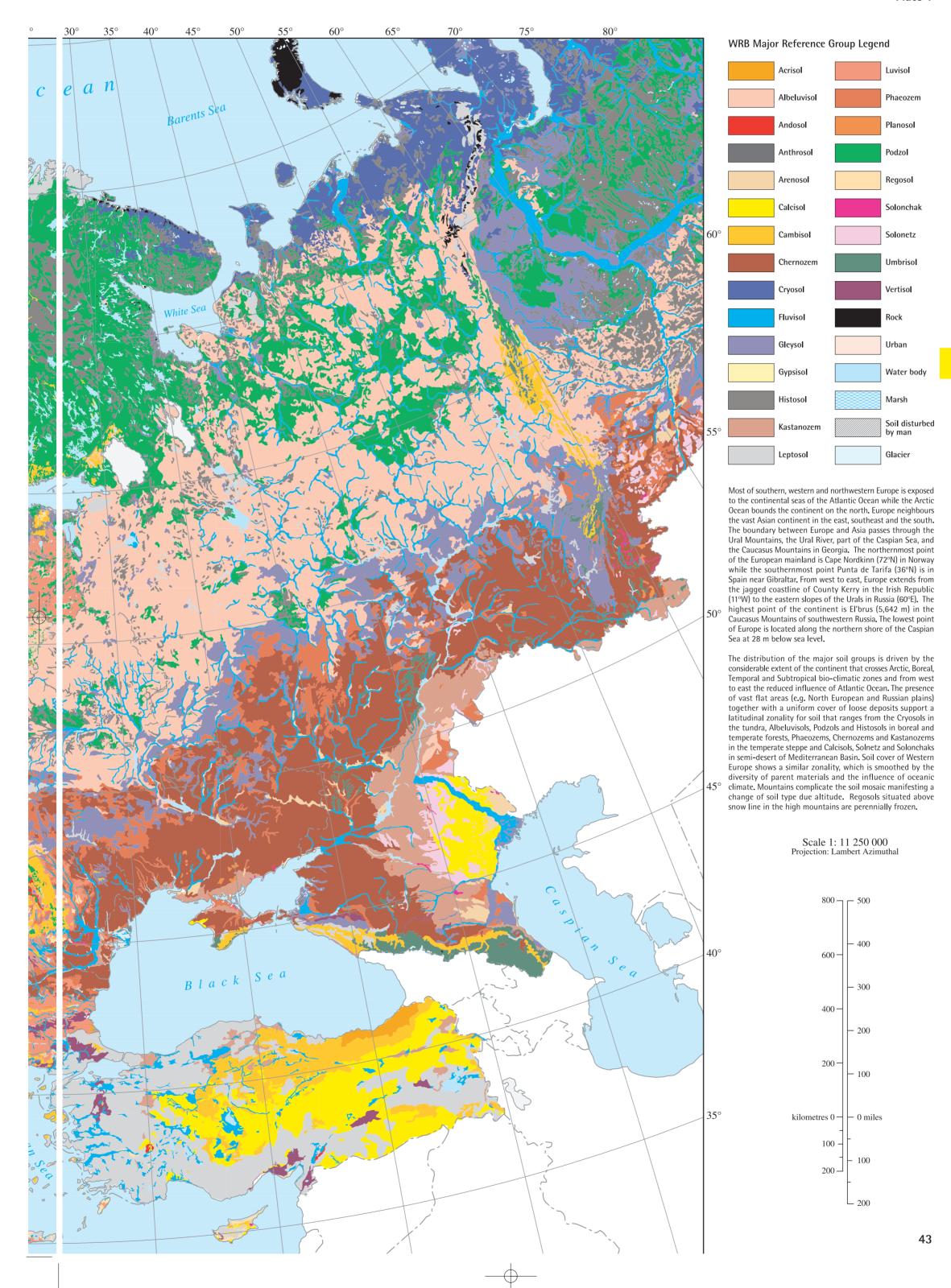
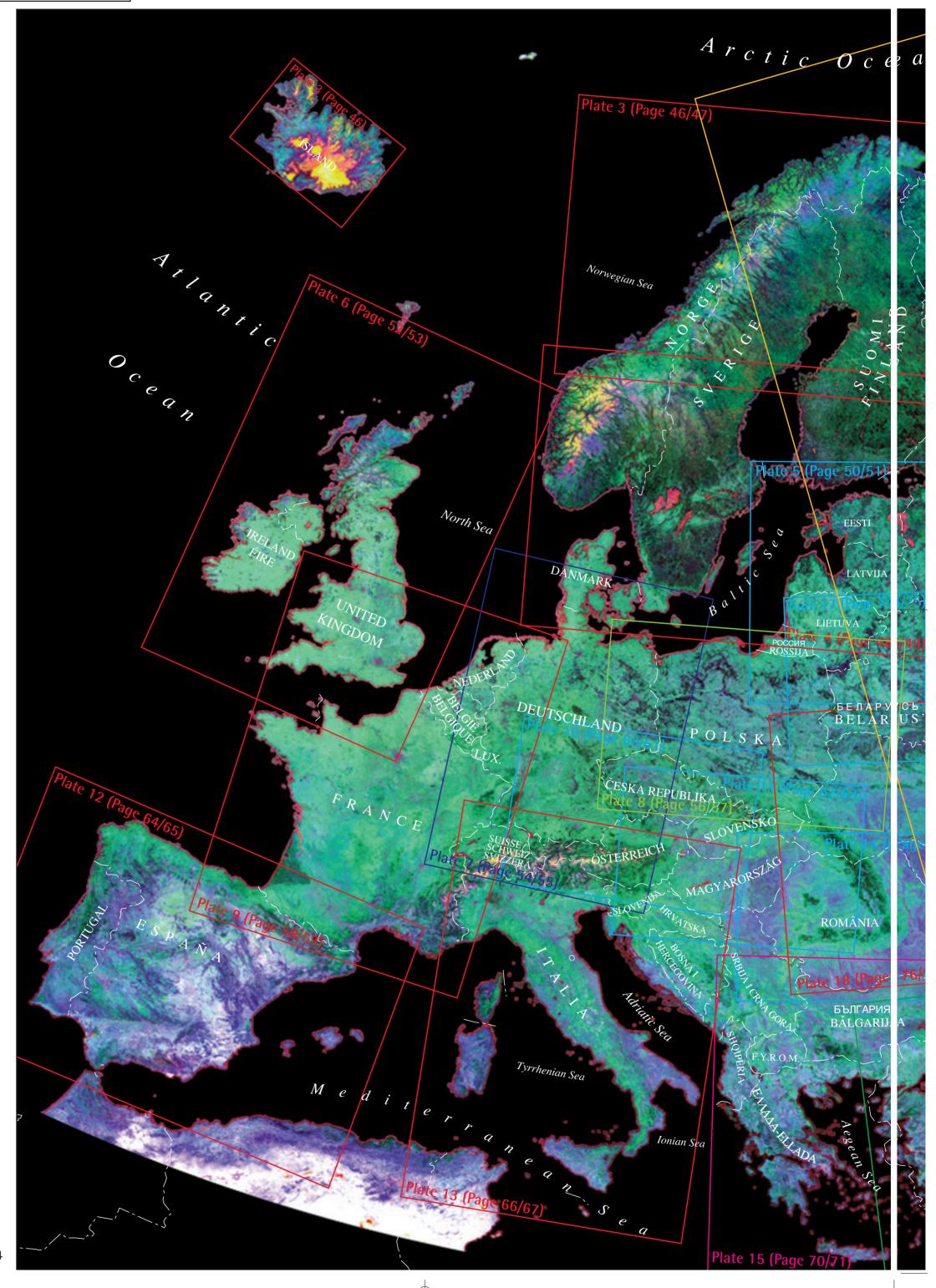
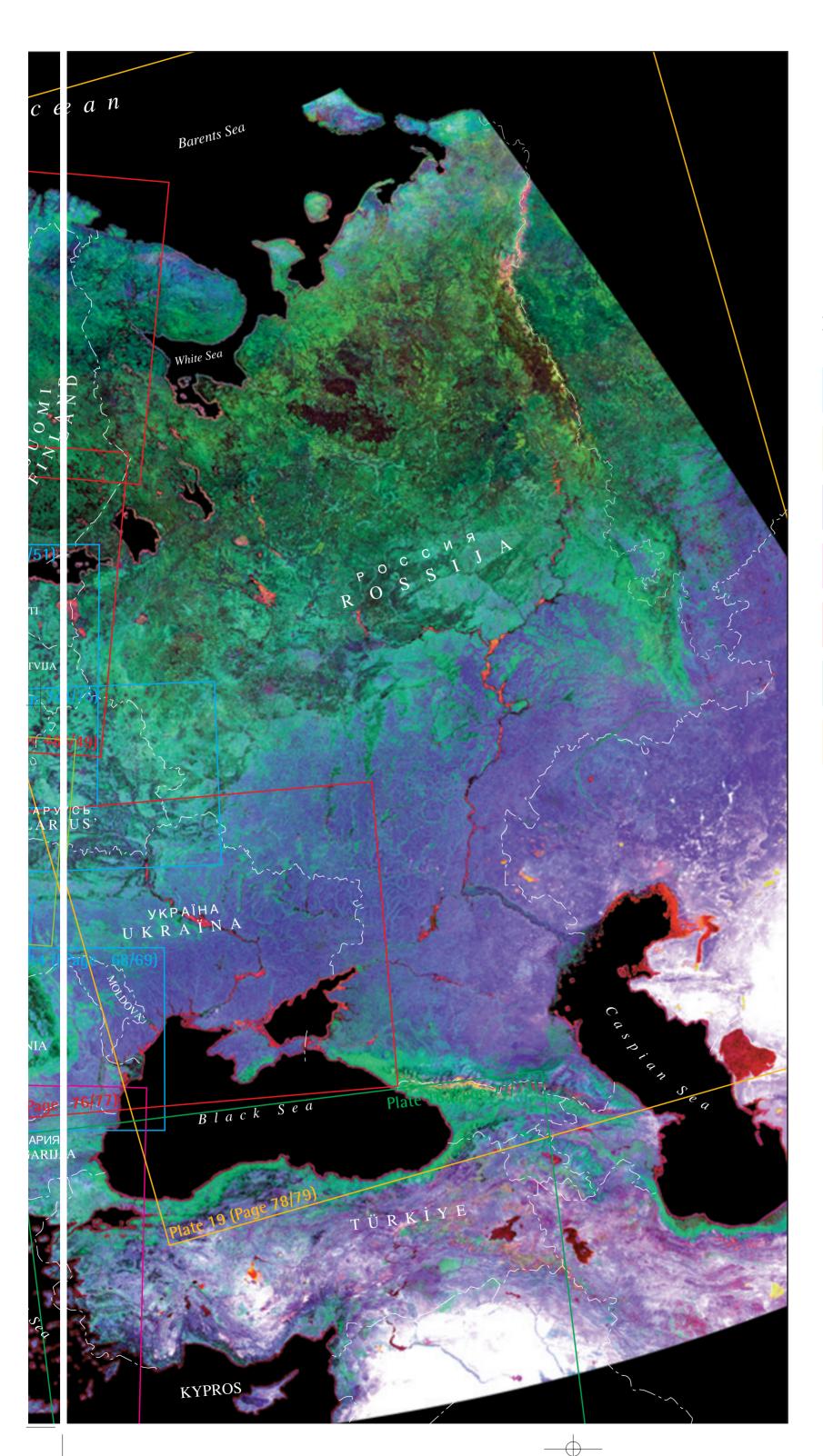


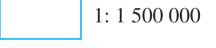
Plate 2

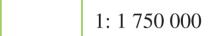
Index of regional maps



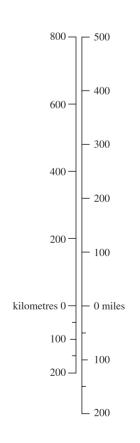


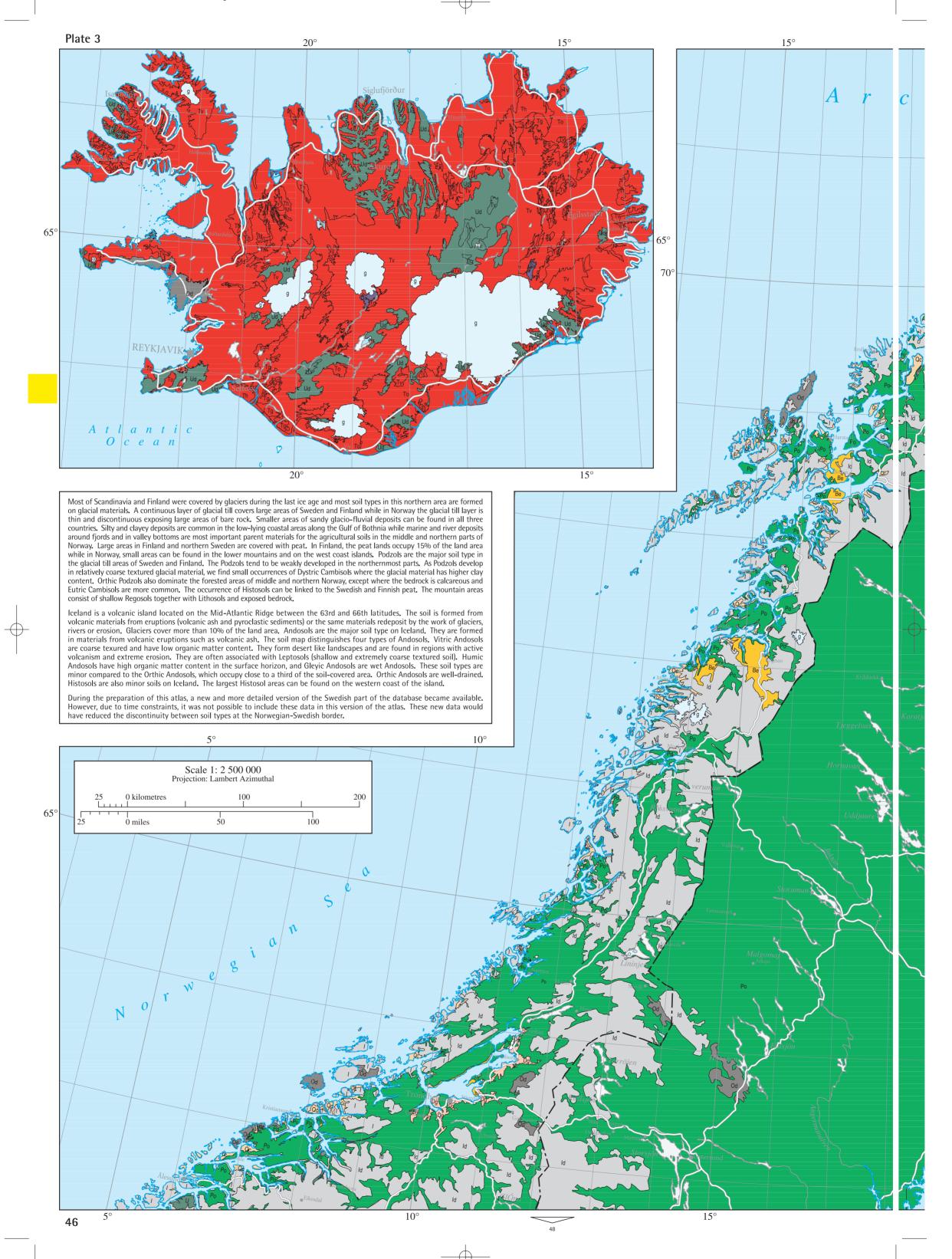
Key to map scales

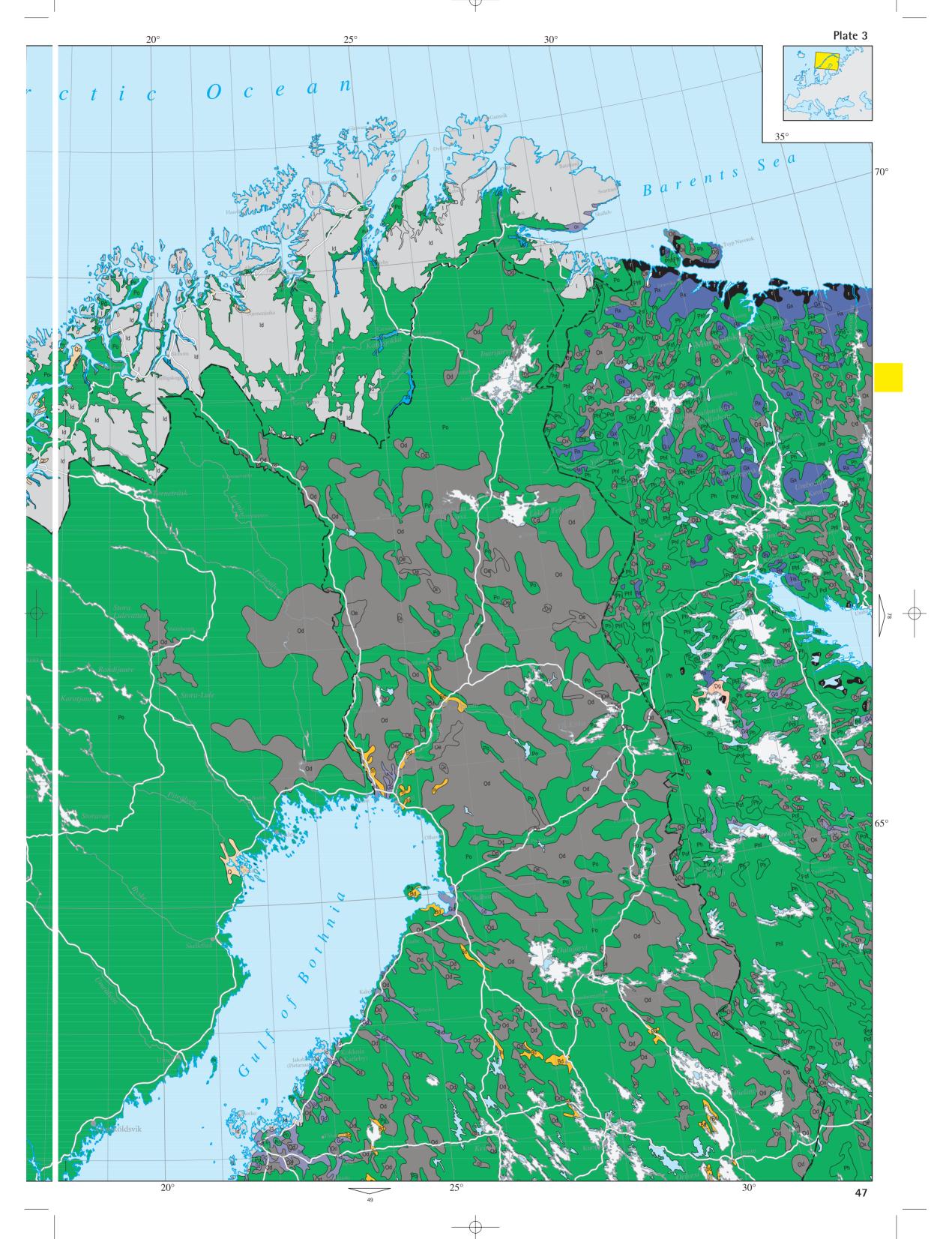


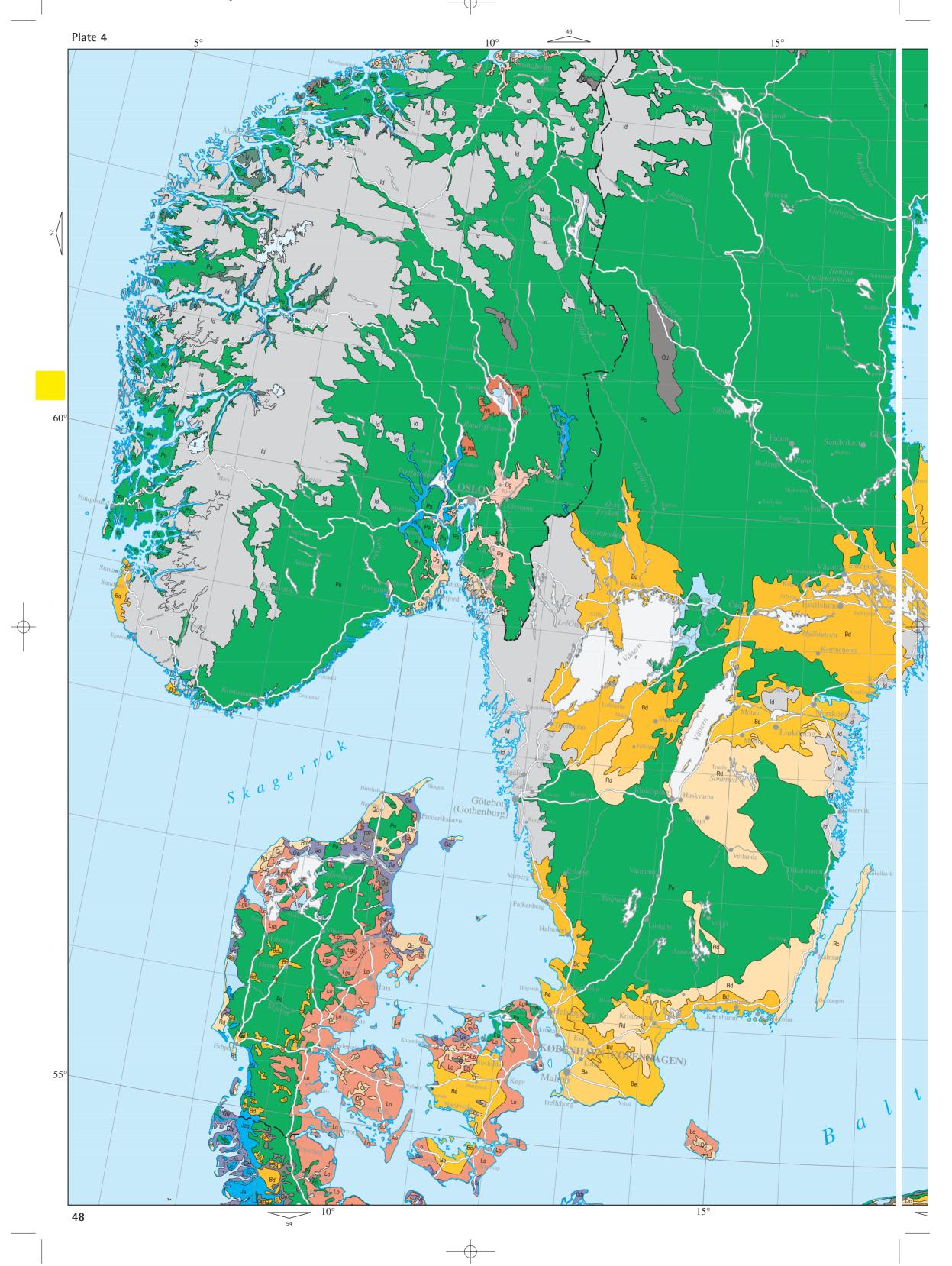


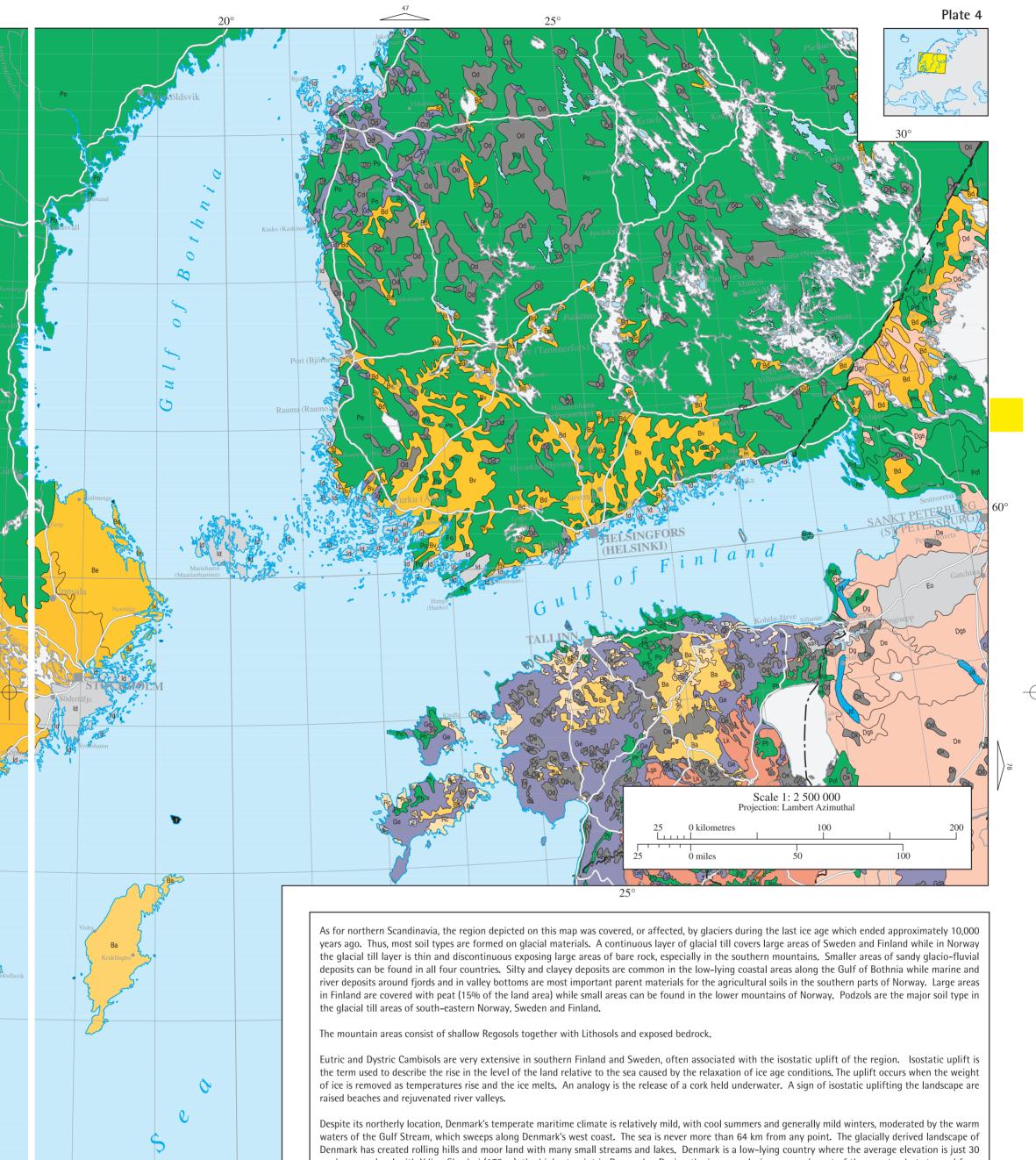
Scale 1: 11 250 000 Projection: Lambert Azimuthal











m above sea level with Yding Skovhøj (173 m), the highest point in Denmark. During the ice age, glaciers covered most of the country, but stopped for a longer time in the middle of the Jutland. Where the glaciers stopped in the middle of Jutland the underlying soil was pressed up to form a north-south running "mountain range" with "peaks" up to 173 m above sea level.

As in the other Scandinavian countries, the dominant soil type is Podzol, forming a continuous block over nearly all the western half of the country. The sandy Podzols of western Jutland are of low natural fertility and limit agricultural activity in this region unless heavily fertilized and limed. Until the beginning of the 20th century, almost all this land was covered by heath.

The western coast of the mainland is low and rimmed by dunes giving rise to Arenosols while the northern coast is characterised by the Gleysols of the coastal marshes. The eastern coast of Denmark, which is slightly higher in elevation, is deeply indented by a series of fjords. This small amount of relief changes the soil forming processes and Haplic Luvisols predominate, which is the most productive soil in the country. Locally, organic rich Histosols can be significant and important although many areas once covered with bogs and swamps have been drained and are now cultivated.

The island of Bornholm is the only place in Denmark where solid rock is exposed.

