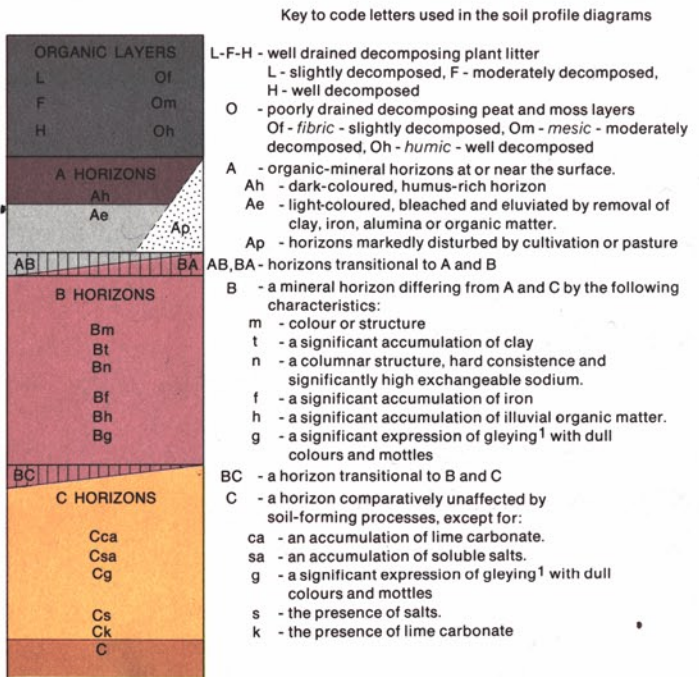


SOIL PROFILES

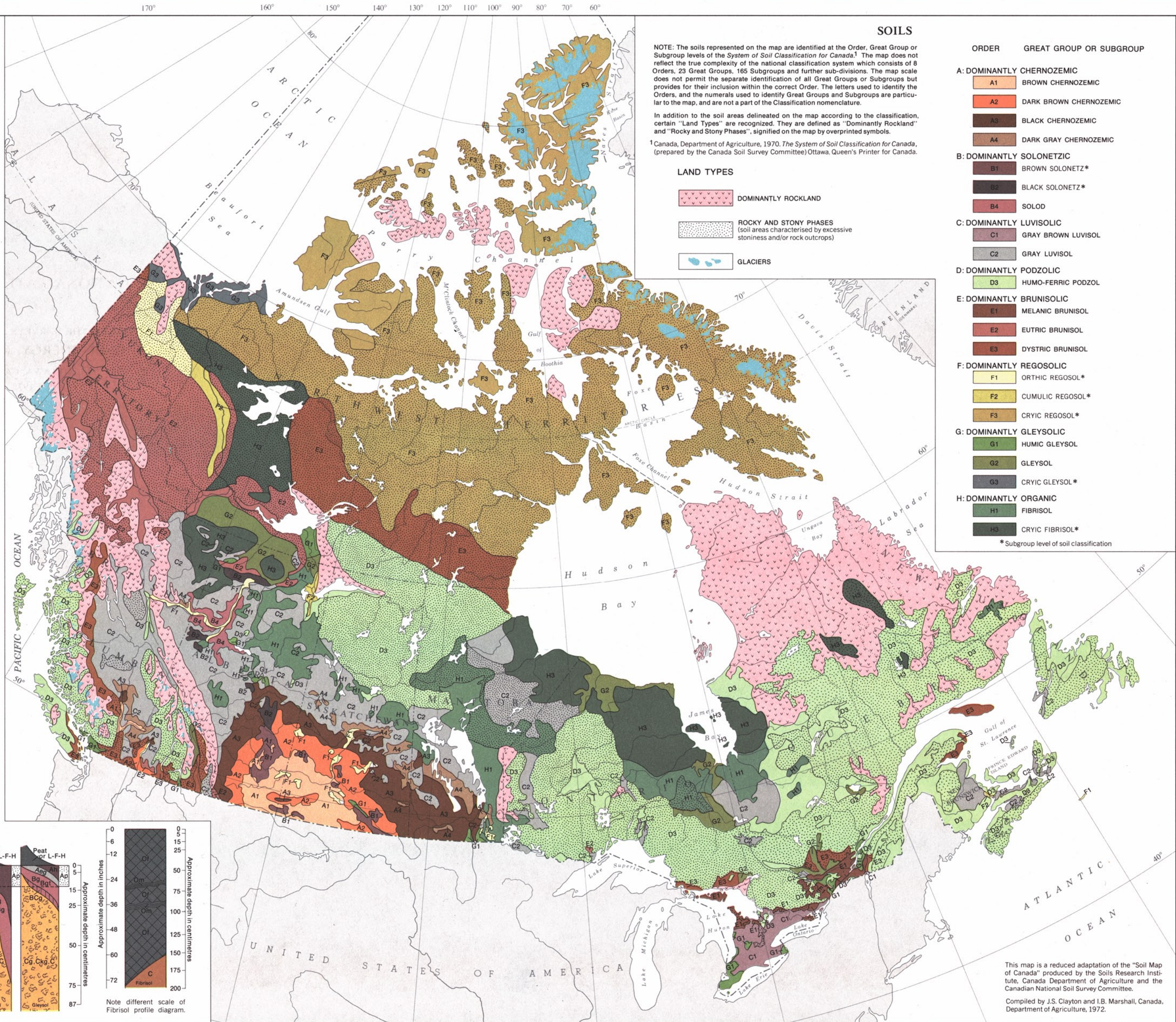
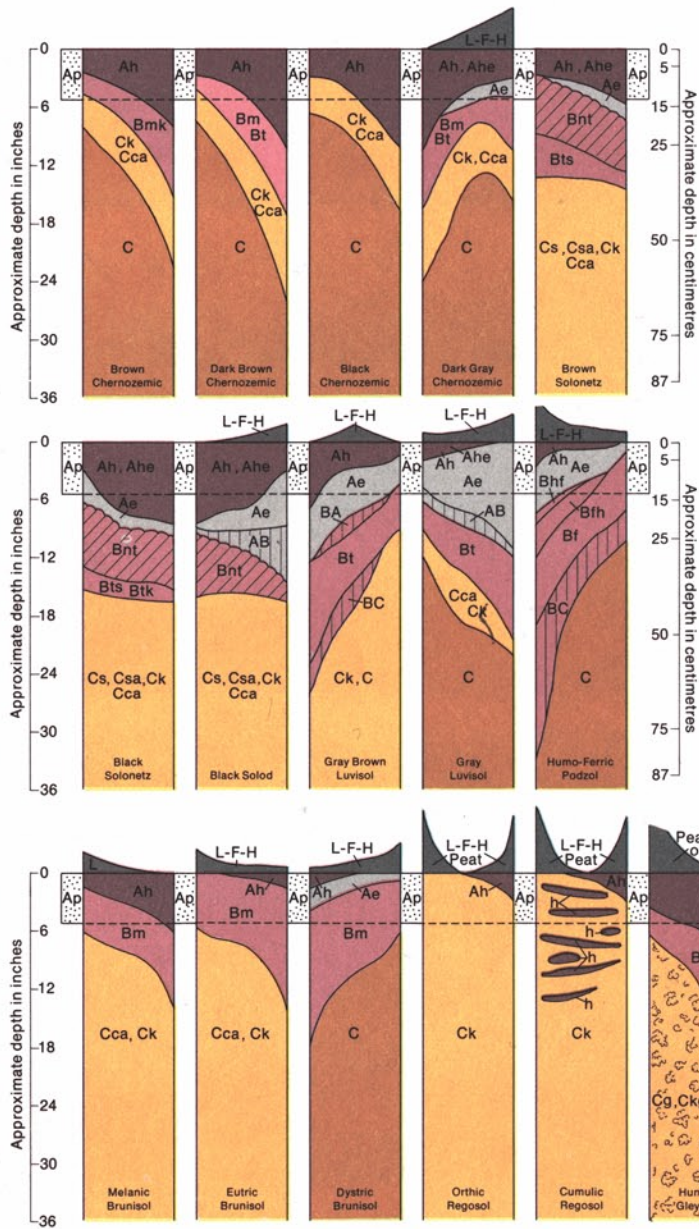
A particular soil is recognized by identifying the various soil layers that make up its vertical cross-section or profile. These layers, known as 'horizons', occur approximately parallel to the land surface and each soil horizon differs from adjacent genetically related layers in properties such as, colour, structure, texture, consistency and chemical, biological and mineralogical composition.

The diagrams of soil profiles shown here depict the general horizon characteristics of the soils shown on the map.



¹Gleying¹ or gleyation refers to a soil-forming process operating under poor drainage conditions which results in the reduction of iron and other elements and in gray colours, and mottles.

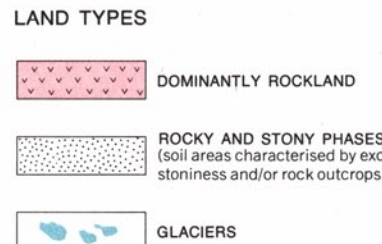
Note: The lower case code letters shown above in the B and C horizons are sometimes combined in the diagrams to express combinations of characteristics.



NOTE: The soils represented on the map are identified at the Order, Great Group or Subgroup levels of the System of Soil Classification for Canada¹. The map does not reflect the true complexity of the national classification system which consists of 8 Orders, 23 Great Groups, 165 Subgroups and further sub-divisions. The map scale does not permit the separate identification of all Great Groups or Subgroups but provides for their inclusion within the correct Order. The letters used to identify the Orders, and the numerals used to identify Great Groups and Subgroups are particular to the map, and are not a part of the Classification nomenclature.

In addition to the soil areas delineated on the map according to the classification, certain "Land Types" are recognized. They are defined as "Dominantly Rockland" and "Rocky and Stony Phases", signified on the map by overprinted symbols.

¹Canada, Department of Agriculture, 1970. The System of Soil Classification for Canada, (prepared by the Canada Soil Survey Committee) Ottawa, Queen's Printer for Canada.



SOILS

ORDER	GREAT GROUP OR SUBGROUP
A: DOMINANTLY CHERNOZEMIC	
A1	BROWN CHERNOZEMIC
A2	DARK BROWN CHERNOZEMIC
A3	BLACK CHERNOZEMIC
A4	DARK GRAY CHERNOZEMIC
B: DOMINANTLY SOLONETZIC	
B1	BROWN SOLONETZ*
B2	BLACK SOLONETZ*
B4	SOLOD
C: DOMINANTLY LUVISOLIC	
C1	GRAY BROWN LUVISOL
C2	GRAY LUVISOL
D: DOMINANTLY PODZOLIC	
D3	HUMO-FERRIC PODZOL
E: DOMINANTLY BRUNISOLIC	
E1	MELANIC BRUNISOL
E2	EUTRIC BRUNISOL
E3	DYSTRIC BRUNISOL
F: DOMINANTLY REGOSOLIC	
F1	ORTHIC REGOSOL*
F2	CUMULIC REGOSOL*
F3	CRYIC REGOSOL*
G: DOMINANTLY GLEYSOLIC	
G1	HUMIC GLEYSOL
G2	GLEYSOL
G3	CRYIC GLEYSOL*
H: DOMINANTLY ORGANIC	
H1	FIBRISOL
H3	CRYIC FIBRISOL*

This map is a reduced adaptation of the "Soil Map of Canada" produced by the Soils Research Institute, Canada Department of Agriculture and the Canadian National Soil Survey Committee. Compiled by J.S. Clayton and I.B. Marshall, Canada, Department of Agriculture, 1972.