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GEOLOGICAL COMPILATION OF THE ABITIBI SUBPROVINCE (PRELIMINARY VERSION)

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Geological compilation of the Abitibi Subprovince (preliminary version)

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Abstract

The purpose of this publication is to archive the 2007 version of the Abitibi Subprovince geological compilation and legend. This version is distinguished by its presentation of volcanic and sedimentary episodes based on U-Pb ages. It has been used to compare the volcanic and sedimentary episodes on the Québec side of the Abitibi with those on the Ontario side.

The map was generated using geological maps from SIGÉOM and information from a compilation of U-Pb isotopic ages for the Abitibi, now available in the Canadian geochronology knowledgebase of Natural Resources Canada (<http://gdr.nrcan.gc.ca/geochron/>). The map was constructed in two parts using the UTM NAD83 projection: zone 17 and zone 18. These two zones were matched up along longitude 78° west.

The stratigraphic legend for this compilation provides a constant time scale, except at each end. This makes it easier to visualize the duration of each volcanic episode, the diachronism of the sedimentary episodes, and the synchronous emplacement of intrusive rocks during volcanism and sedimentation. On the left side, the long vertical lines roughly represent, from west to east, the Ontario-Québec border and longitudes 78°, 76° and 74°. This serves to illustrate the regional disparity of some episodes. On the right side, intrusive rocks were first divided into two groups, synvolcanic or syntectonic, based on criteria defined by several authors and their geochemical affinity.