

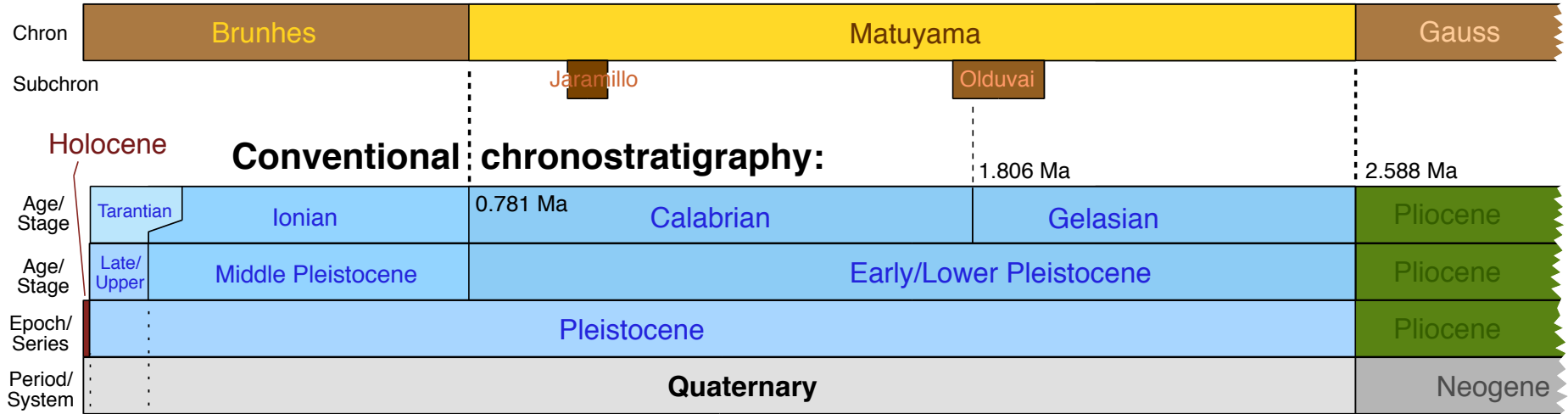
The integrated schizophrenia of Quaternary geochronology I

The geochronology of most geologic periods is only a matter of conventional epochs and ages. For the Quaternary period, geochronology comes in *three*

kinds: conventional named epochs and ages, magnetic chrons, and marine isotope stages. The good news in this three-fold system is that the breaks between the conventional named ages or stages of the Pleistocene match up well with the breaks between

the magnetic chrons and between marine isotope stages (as shown by the dashed lines). Thus the Early Pleistocene effectively equals the Matuyama Chron. the rest of the Pleistocene effectively equals the present Brunhes Chron, the Late Pleistocene is effectively MIS 5 to MIS 2, and the Holocene is effectively MIS 1.

Magnetic chronostratigraphy:



Conventional chronostratigraphy:

Isotopic chronostratigraphy:

