



Figure 2.12. Photographs of representative samples of unaltered, weakly supergene altered and strongly supergene altered braunite lutite. A (Rex 44), B (Rex 71) and C (Rex 2) - M-zone with mottled appearance with medium-sized carbonate-ovoids and few thin carbonate lenses and laminae. D (Rex 44), E (Rex 71) and F (Rex 2) - C-zone with cloudy accretions of Mn-calcite pseudospar ovoids of small size and few thin calcite and Mn-calcite laminae, resulting in a banded appearance. G (Rex 44), H (Rex 71) and I (Rex 2) - N-zone with thick carbonate-laminae, thin lenses and small ovoids. It is important to note that weak supergene alteration (B, E, H) results only in very minor differences in optical appearance. Carbonate laminae and ovoids are still clearly recognisable, although the color of the surrounding matrix may change to more greyish colour. Note that the strongly supergene altered M, C and N-zones (C, F, I) are crosscut by veinlets filled by manganomelane, todorokite or calcite. Note also remnants of original carbonate laminae and ovoids.