Stop 06

Mountain range of Cuó (km 265 of the field guide). Railroad cut. Probable door-sill (?) of basalt (98-100 Ma), pre-Cambrian basement and arenites of the Açú Formation. Middle/coarse stratified sandstones (braided fluvial system) of the Açú 3 Unit, which forms the Mountain range of Cuó (Photo 08). Local geometric evidence of canalized bodies.

Overview of the mountain range of Cuó.
Detail of sandstones of the Açú Formation, showing crossed stratification.

Stop 08
BR 304, km 97 (km 318 of the field guide). Outcrops of the Açú Formation (Unit Açú 3) used for reservoir studies. Conglomeratic sandstone with crossed stratification, locally intercalated with red muds or very fine arenites. Bioturbação (iscolites) or structure of fluid escape. The observed arenites indicate fluvial deposits of the types coarse braided/meandering.
Stop 09
BR-304, km 96 (km 319 of the field guide). Outcrops of the Unit Açú 3 of the Açú Formation. The outcrops approximately correspond to two road-cut sections, of about 500 m extension. They allow to pile up a column of 23 m of deposits, evidenced for continuous cores in three wells, showing the occurrence of five cycles of normal gradation. Coarse sandstone bodies with crossed stratification of low angle. Walking to the top of the section, the sandstone bodies become progressively more massive, with a higher clay (caulinite) content, probably due to a progressive energy fall. Second layer of mudstones are related a second transgressive pulse. With the sea-level rise the area became an aluvial plain. In the upper part of the outcrop, there is a hardground.
Stop 10

BR-304, km 92 (km 325 of the field guide). Transition of the Açú Formation to the Jandaíra Formation (Photo 11). Outcrop of calcilutites, with birdseyes structures and bioturbation (Thalassinoides), overlying marlstones, bioclastics calcarenites and calciferous sandstones with crossed stratification. The observed structures suggest a local and occasional embayment with sub-aerial exposition (supratide) and terrigenous incursions. Some loose carbonate blocks of the Jandaíra Formation have gastropode and equinoid molds.

Transition of the Açú Formation to the Jandaíra Formation.
Loose block, with the record of intense bioturbation (Thalassinoides).
Carbonate block of the Jandaíra Formation with gastropode molds and birdseyes structures.

Carbonate block of the Jandaíra Formation with gastropode molds.