Mark Holland and Matthew Nicol\* (nicol@math.uh.edu), University of Houston, Houston, TX 77204-3008, and Andrew Torok. Whitney regularity for solutions to the coboundary equation on Cantor sets.

We prove Whitney regularity results for the solutions of the coboundary equation over dynamically defined Cantor sets satisfying a natural geometric regularity condition, in particular thick Cantor sets. To do this we prove an analogue of Journé's well-known result in the context of Cantor sets satisfying geometric regularity conditions. (Received July 30, 2007)