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Edward S. Sichel* (edsichel@mail.fresnostate.edu), Department of Mathematics, California State University, Fresno, 5245 North Backer Avenue, M/S PB108, Fresno, CA 93740-8001. *On the Nature of Expansions on Compact and Totally Bounded Metric Spaces and More*. Preliminary report.

When proving a known result describing expansive mappings on compact metric spaces as isometric surjections, we observe that relaxing the condition of compactness to total boundedness preserves the isometry property, and nearly so that of surjectivity.

While a counterexample is found showing that the converse to the above descriptions do not hold, we are able to characterize boundedness in terms of a certain specific type of expansions we call *anticontractions*. (Received September 20, 2018)