

1116-L1-918 **Mark A Branson*** (mbranson@stevenson.edu), Stevenson University, 1525 Greenspring Valley Road, Stevenson, MD 21153. *Changes in the Geometry of Baltimore's Public Transit System during the 2015 Protests.*

On April 28th, 2015 protests broke out in the city of Baltimore following the funeral of Freddie Gray, a young black man, who died in police custody. The Maryland Transit Authority (MTA), anticipating violence, canceled all scheduled public transportation in Mondawmin, a low-income area of West Baltimore where much of the later violence was centered. We analyze how this change in service altered the geometry of the city, using a metric of public transportation travel time. Using publicly available data from the MTA and the city of Baltimore, we construct this metric and analyze the curvature. Finally, the changes in this geometry are examined near violent incidents to determine whether cessation of public transit affected the events of that day. (Received September 15, 2015)