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A REVIEW OF THE PENNSYLVANIA AND GEORGIA 2020 PRESIDENTIAL ELECTION RESULTS

by [REDACTED]

This brief document presents a review of the Pennsylvania and Georgia running total vote counts as reported by Edison Research for the 2020 presidential election. This review has found that the vote count in these two states played out in such a way as to indicate some entity manipulated the voting systems.

The reported vote count for both candidates in the two states are shown in Figure 1. The horizontal scale is the hours since counting started on November 3rd. The vertical scale is in millions of votes.

The Pennsylvania vote plot shows Trump (red symbols) led Biden (blue symbols) by approximately 600,000 votes after 6 hours of counting. Trump's Pennsylvania lead continually decreased, however, and after 60 hours of counting, with unexplained pauses, Biden took and retained the lead.

The Georgia vote was similar with Trump having an early lead but votes for Biden continued to increase and after 70 hours, Biden's vote count exceeded Trumps. As in the Pennsylvania count, Georgia's count had multiple pauses.

The reason for the pauses is unknown and the duration of the vote count for both states is odd. In contrast to these long vote counts, Ohio counted the 5.6 million ballots cast in the 2020 election in under 6 and ½ hours.

After reviewing the Pennsylvania and Georgia vote counts, it was decided to see if the numerous pauses in the count had any underlying correlations. To do that the data were replotted with emphasis on the paused segments and with the time scale based on the original time stamps. The time stamps are in Coordinated Universal Time (UTC) and are independent of time zones. Eastern Standard Time is UTC time minus 5 hours. Pennsylvania polls closed at 8pm on Nov. 3rd or 01:00 UTC time on the 4th. In Georgia, the polls closed at 7pm or 00:00 UTC time on the 4th.

As shown in the two plots in Figure 2, a vertical line is placed at each significant break in the count and labeled A (or a) through F. The vertical scale on each plot is in million votes; the horizontal is in UTC Day-hour units. The following table lists the letter label with its UTC time (day hour:min:sec) for both Pennsylvania and Georgia. The Time Difference column notes the time that elapses between when one state stops, or re-starts vote counting and when the other state does the same.

Time	Pennsylvania	Georgia	Time Difference
a	---	4d 06:34:49	---
A	4d 07:41:48	4d 07:58:51	00h 17m 03s
B	4d 14:16:51	4d 16:32:54	02h 16m 03s
C	5d 04:09:54	5d 03:40:00	00h 39m 54s
D	5d 13:54:50	5d 13:44:46	00h 10m 04s
E	6d 06:30:10	6d 06:44:04	00h 13m 54s
F	6d 12:45:12	6d 13:06:43	00h 21m 31s

¹ [REDACTED] is a private analyst retired in Bend, Oregon.

Based on this table of UTC times for these supposedly independent vote counting and reporting systems, a timeline of actions is as follows:

Day 4: (November 4) at 06:34 (GA time a) Georgia started intermittently counting votes; Pennsylvania continued counting.

Day 4: at 07:41 (PA time A) Pennsylvania stopped counting votes. 17 minutes later (GA time A), Georgia made minor adjustments to the vote count and then paused the count.

Day 4: at 14:16 (PA time B) Pennsylvania re-started the vote count; 2 hours and 16 minutes later Georgia also restarted the count (GA time B) .

Day 5: at 03:40 (GA time C) Georgia stopped the count. 39 minutes later (PA time C) Pennsylvania stopped counting.

Day 5: Georgia restarted counting votes at 13:44 (Ga time D). 10 minutes later (PA time D), Pennsylvania restarted their count.

Day 6: at 06:30 (PA time E) Pennsylvania stopped counting votes. Georgia had started intermittent counting a little earlier, but one posting came 13 minutes (GA time E) after Pennsylvania had stopped their count. Georgia's intermittent counting continued.

Day 6: Pennsylvania ended their count pause at 12:45 (PA time F) and started intermittent counting. 21 minutes later at 13:06 (GA time F), Georgia also started intermittent counting.

Even though these state election organizations are ostensibly independent, these data show there is a definite coordination of their counting procedures. It implies that some entity had control of both state voting systems and could possibly manipulate the vote to favor a particular candidate.

Georgia and Pennsylvania should audit their voting systems and establish that the ballot chain of custody has not been violated. Of specific interest are any mechanical or electronic machines used for voting or counting.

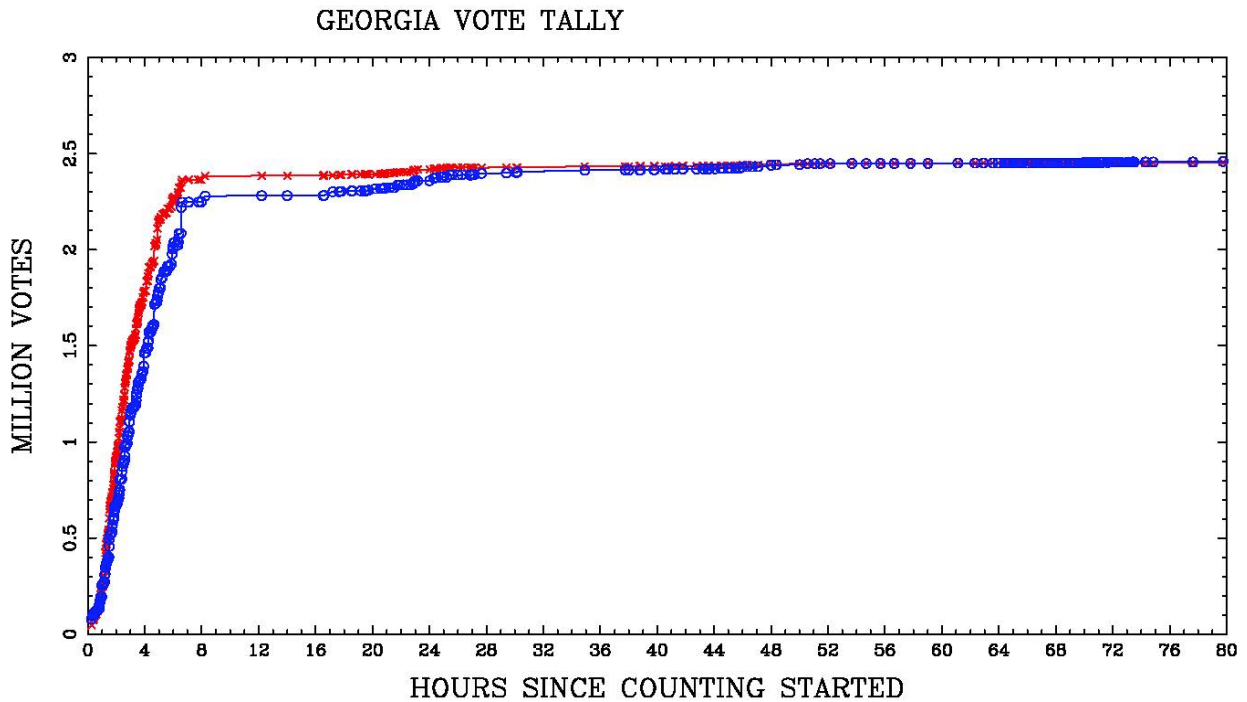
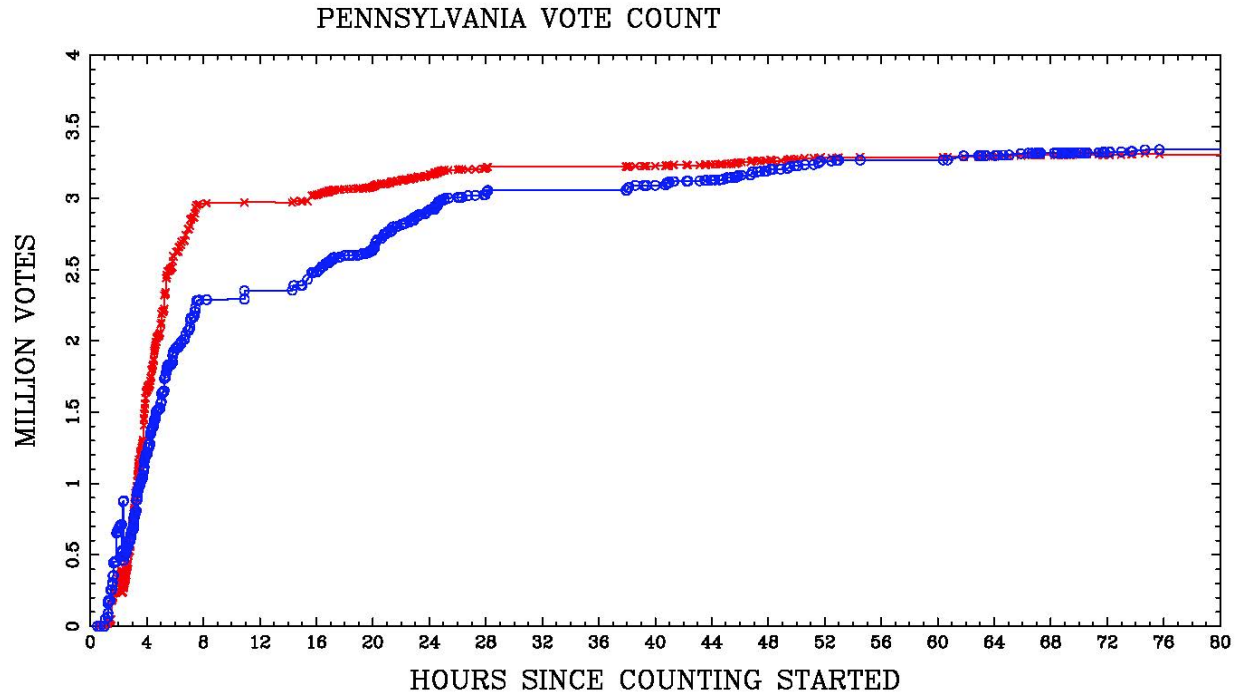


Figure 1. These plots show the vote tally in millions for Pennsylvania (top) and Georgia (bottom) as a function of hours since counting began. In both cases Trump led the vote (red symbols) in the early stages, but the later vote count favored Biden. Biden gained and kept the lead in Pennsylvania after 60 hours and in Georgia after 70 hours.

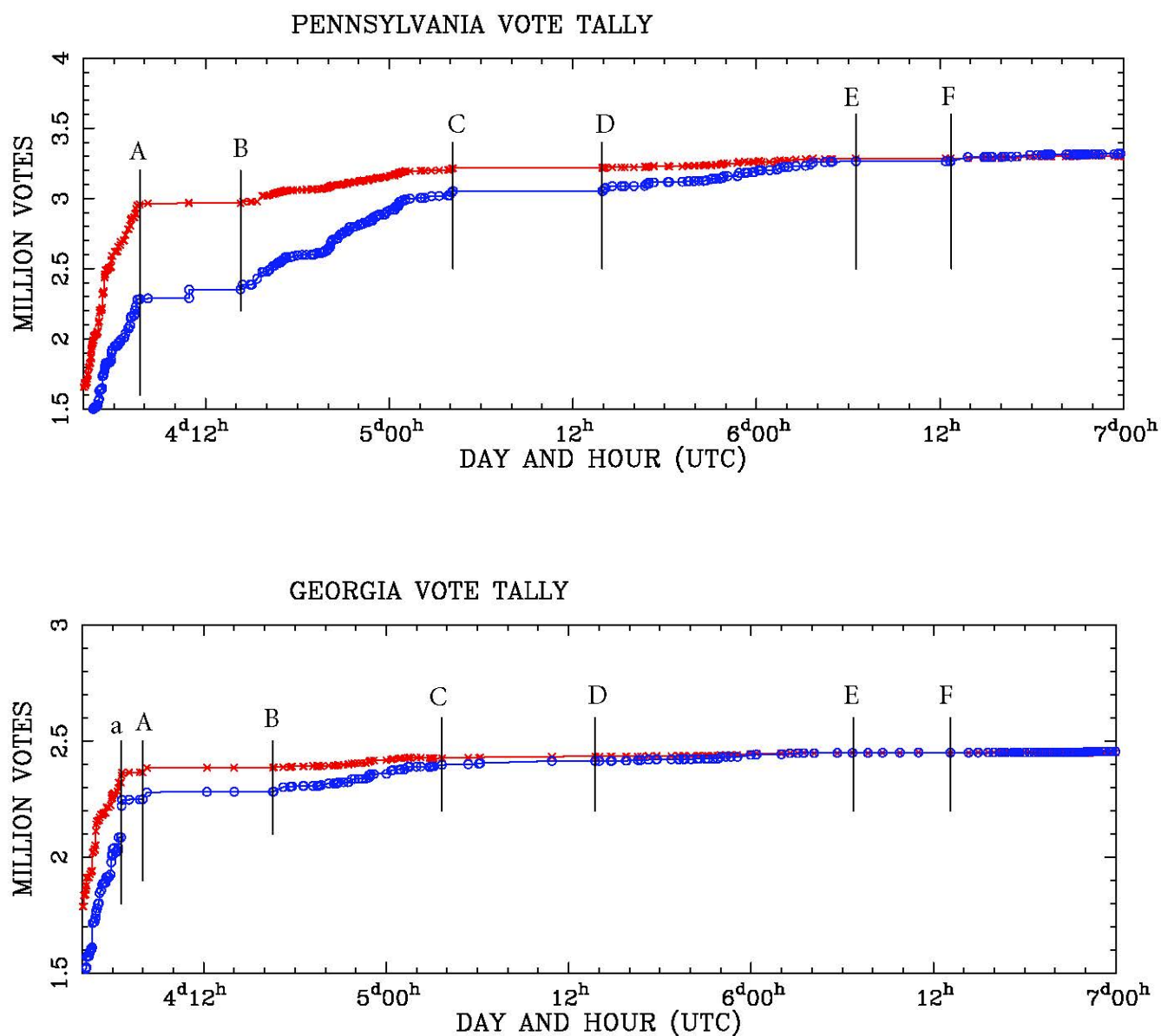


Figure 2. These plots show the same data shown in Figure1 but with the vertical scale decreased and the horizontal scale changed to the UTC time definition. The UTC time was provided each time a vote count was released and provides a common time scale for each state. The several counting breaks are noted with a vertical line and a letter designation. The times of the breaks are found to be highly correlated indicating the state counts were directed by a common entity rather than independently by the state election offices.