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Method:

Go through the entire history of PM 2.5 record.

\* Find all the specific hours when PM2.5 hit 35 and mark as hour\_index as 0

\* Use a time window of length 14 get all the segments

\* Then take the average for each variable value over different date(event)

The picture below is an example of one piece of time segment



notes: event\_date\_index is a timestamp when pm 2.5 hit above 35, it is the time of hour\_index 0.