



Commuter Corridors Study

# Appendix A

## Traffic Congestion Scans:

### Existing Buffer Index

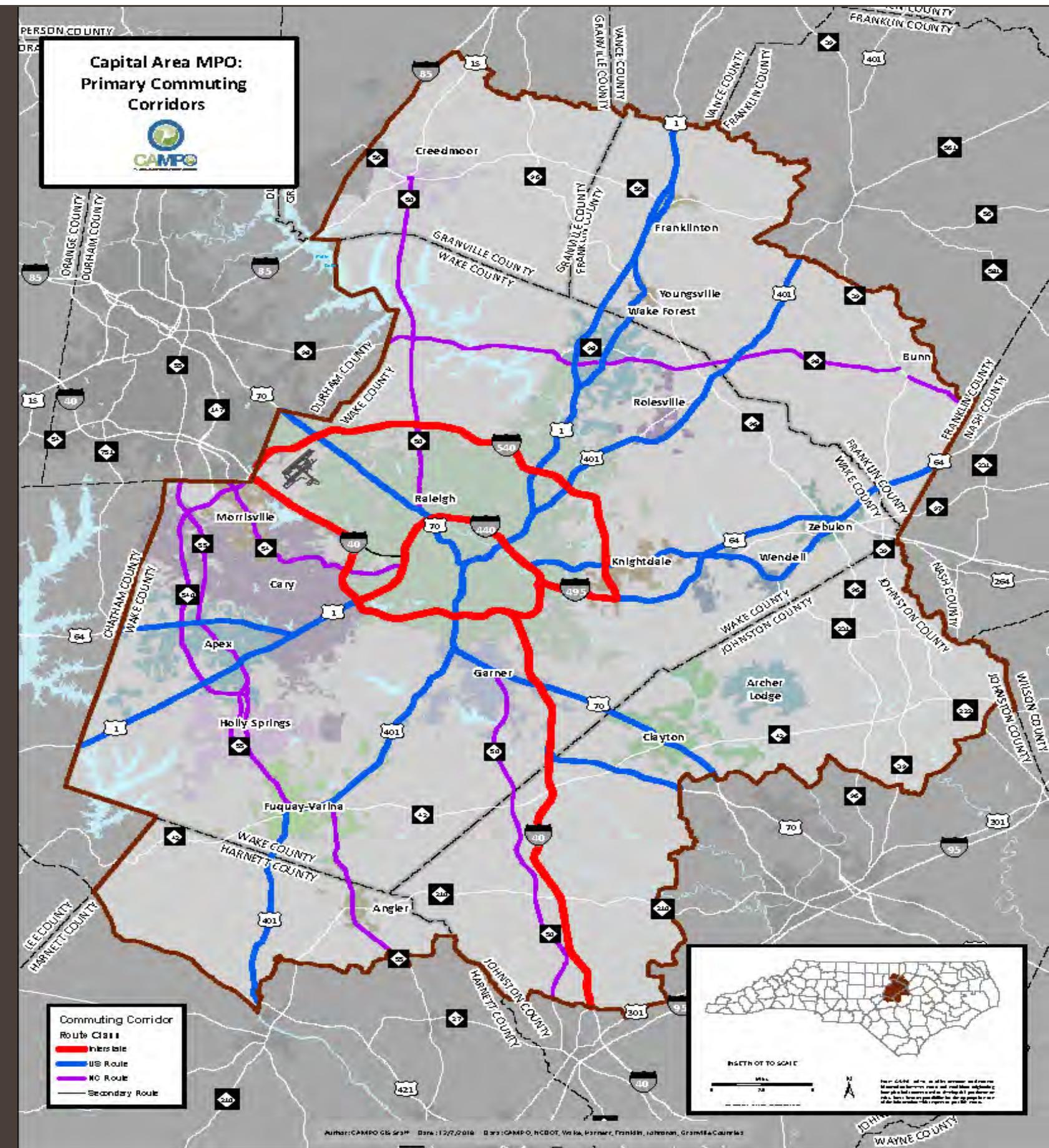
**BASELINE  
MOBILITY**



# Analysis Approach

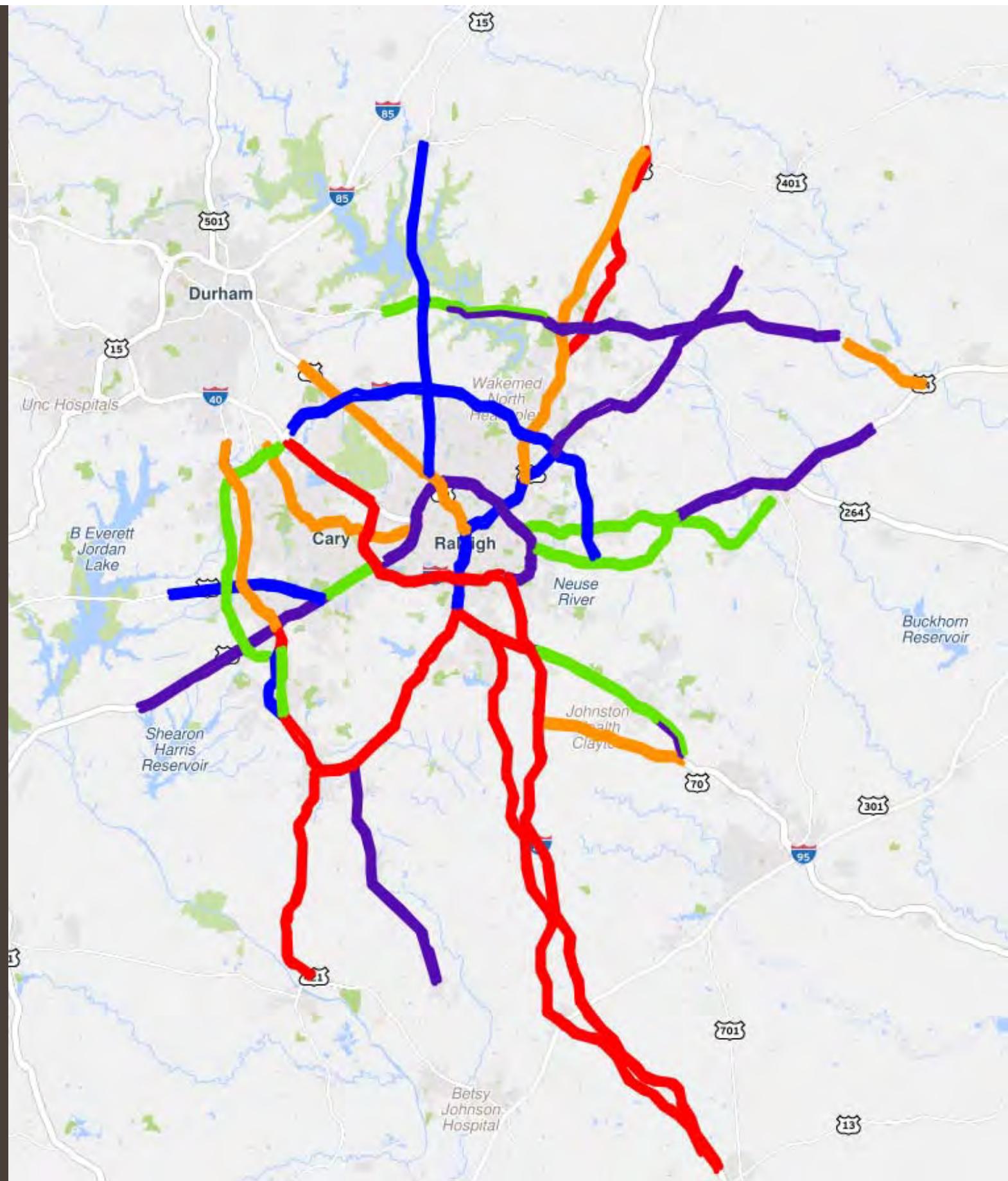
- Data Source – NPMRDS Analytics/Probe Data Analytics
- Dataset: HERE
- Year – 2018
- Months Analyzed – January thru December
- Days Analyzed – Monday thru Friday
- Hours Analyzed
  - AM (5:30 to 10:30 am)
  - PM (3 to 8 pm)
- Traffic Congestion Measure Analyzed
  - Buffer Index
  - Amount of extra "buffer" time needed to be on-time 95 percent of the time, in percent
  - A measure of system reliability

# Study Area Commuter Corridors

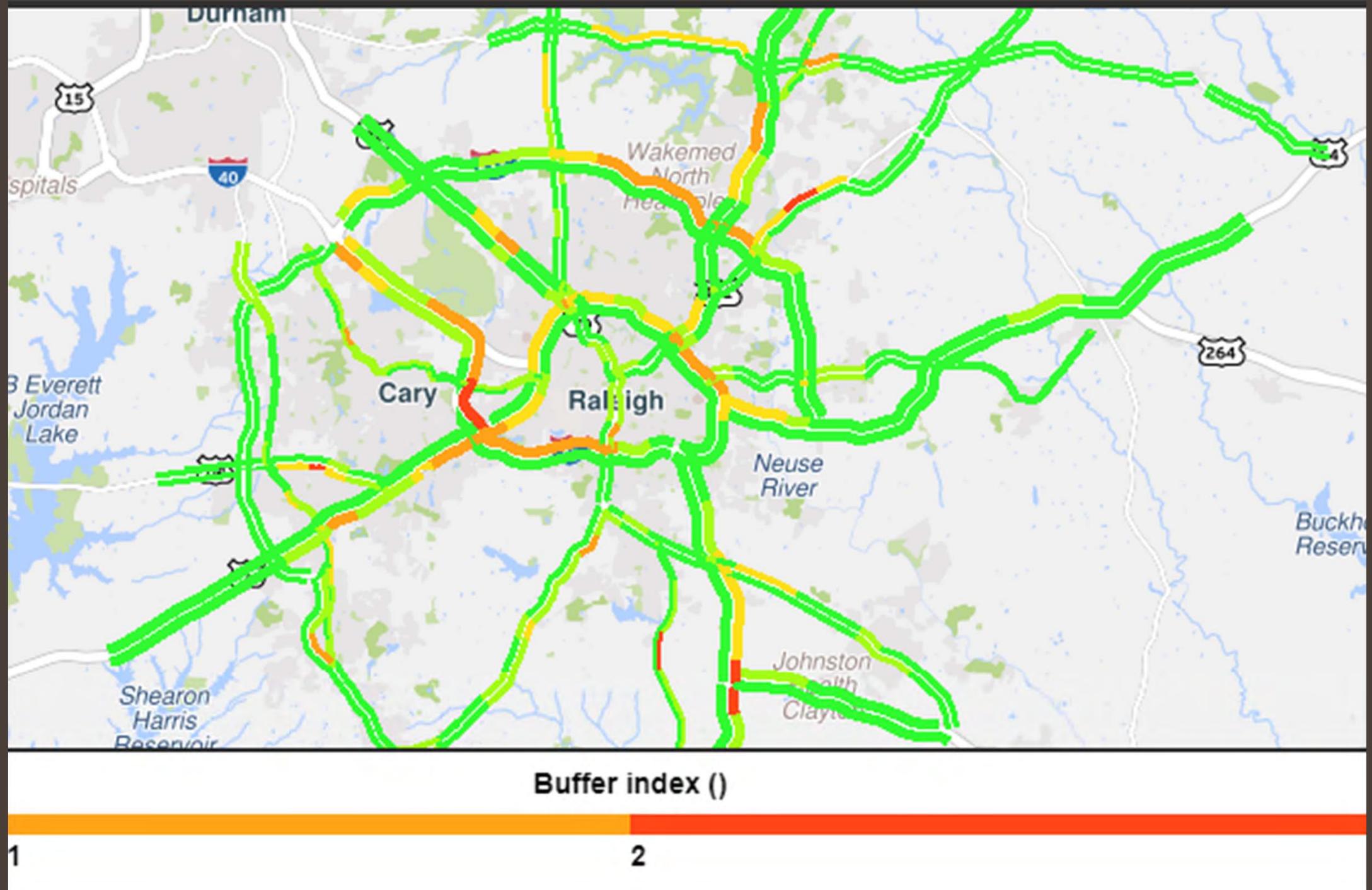


Corridor  
Segmentation  
Utilized for  
Buffer Index

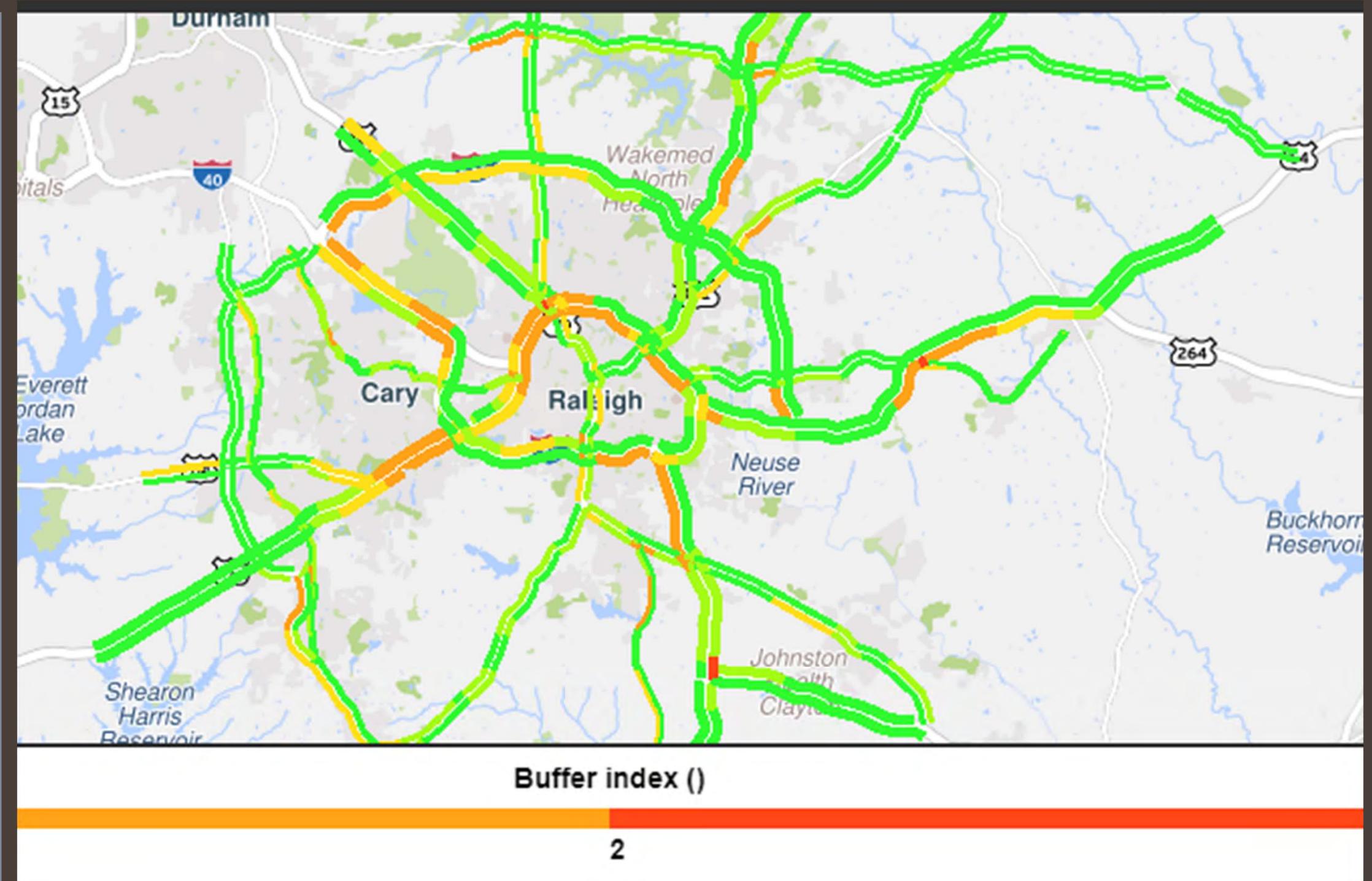
26 segments



# AM Peak Period Traffic Congestion - System Reliability

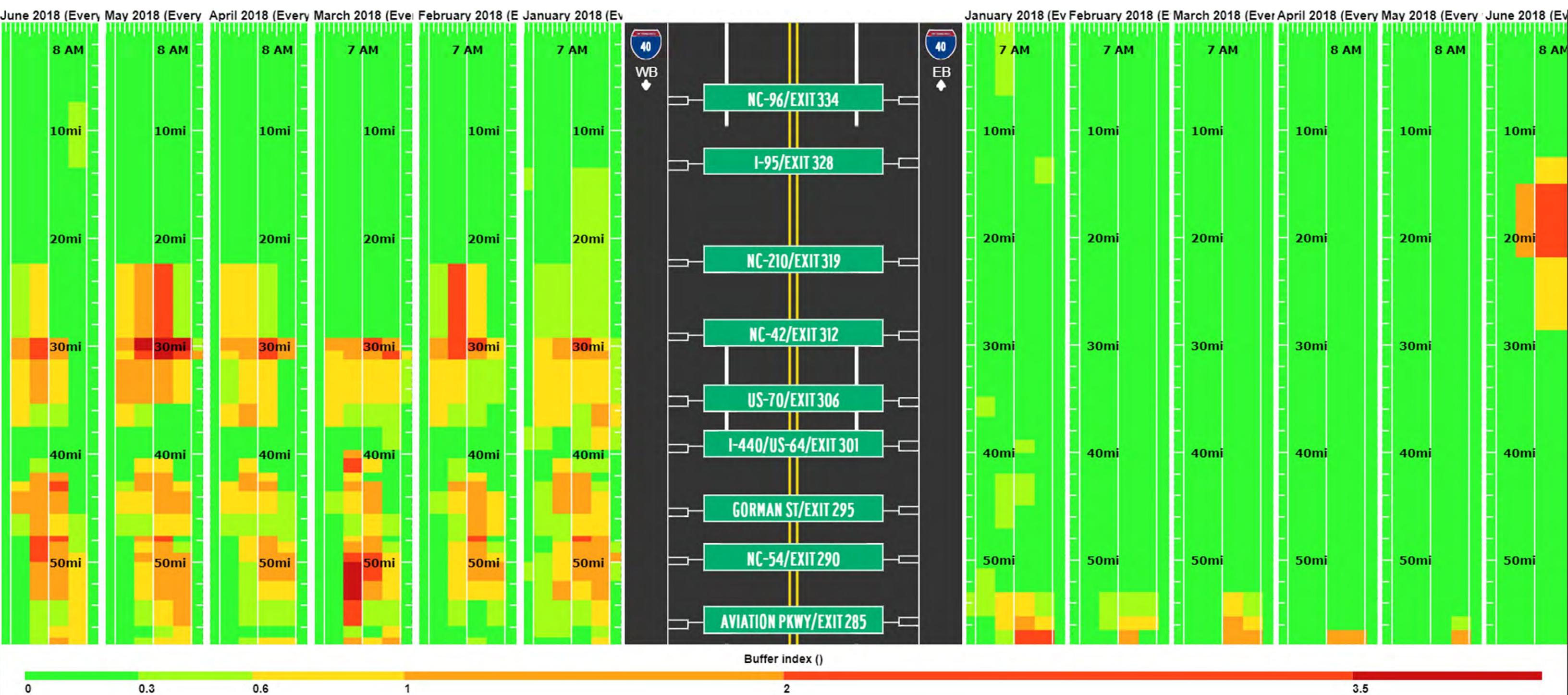


# PM Peak Period Traffic Congestion – System Reliability



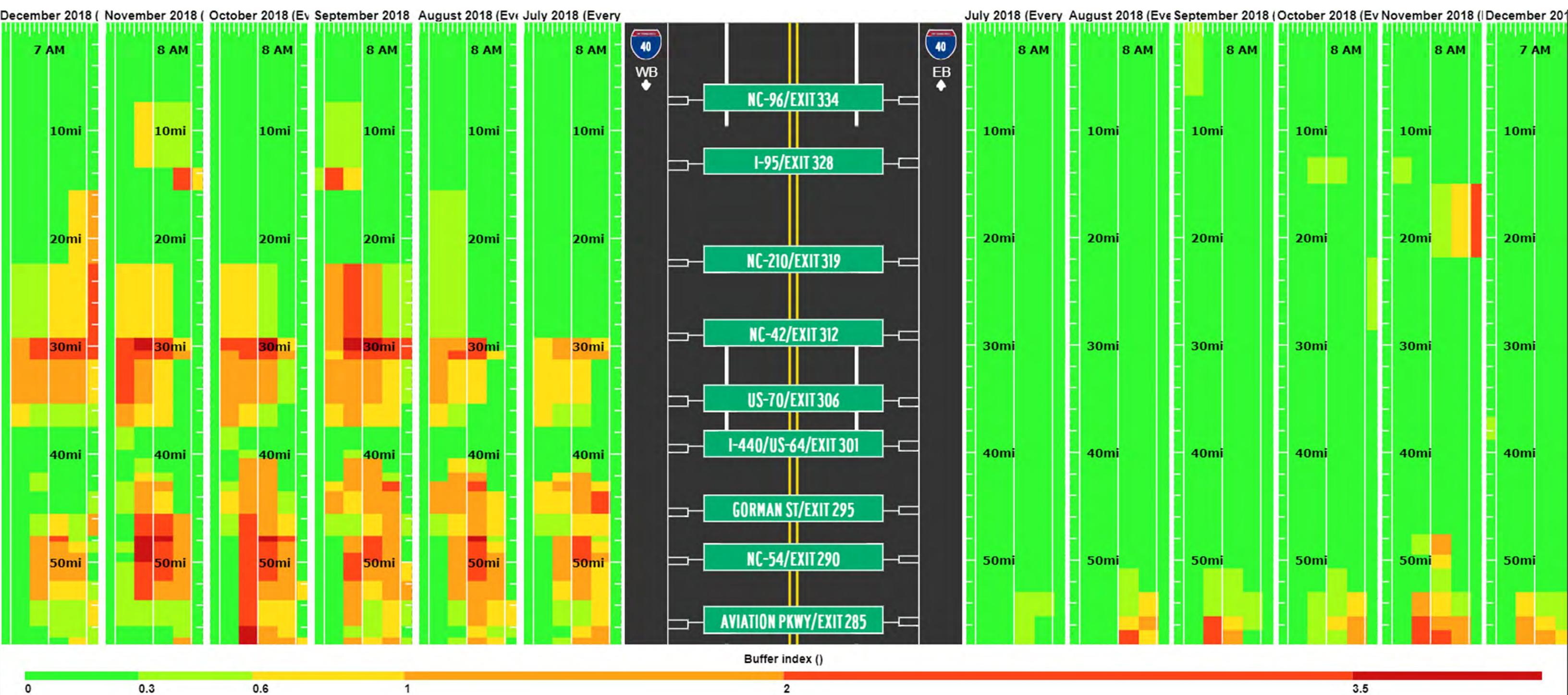
# I-40 Buffer Index, AM Peak in Jan thru Jun 2018

Buffer index for I-40 using HERE data



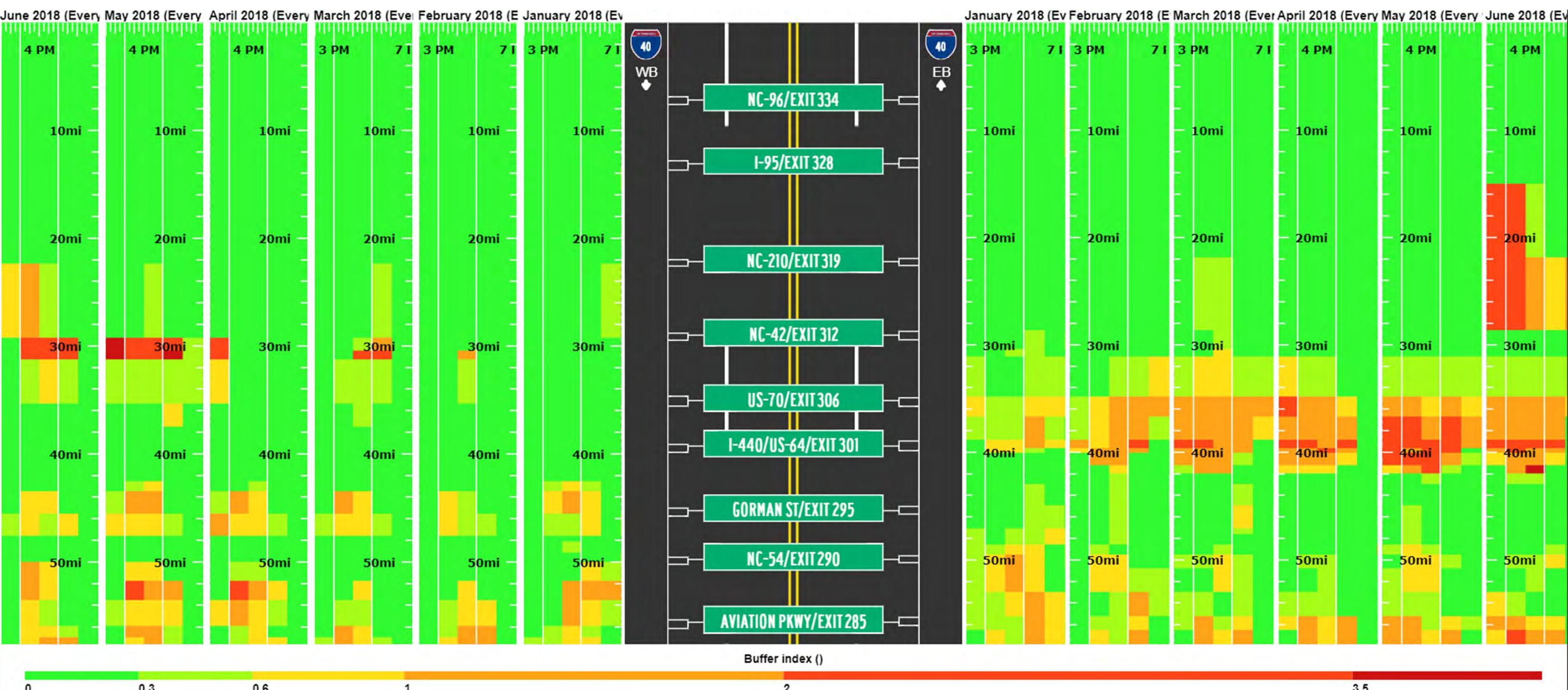
# I-40 Buffer Index, AM Peak in Jul thru Dec 2018

Buffer index for I-40 using HERE data



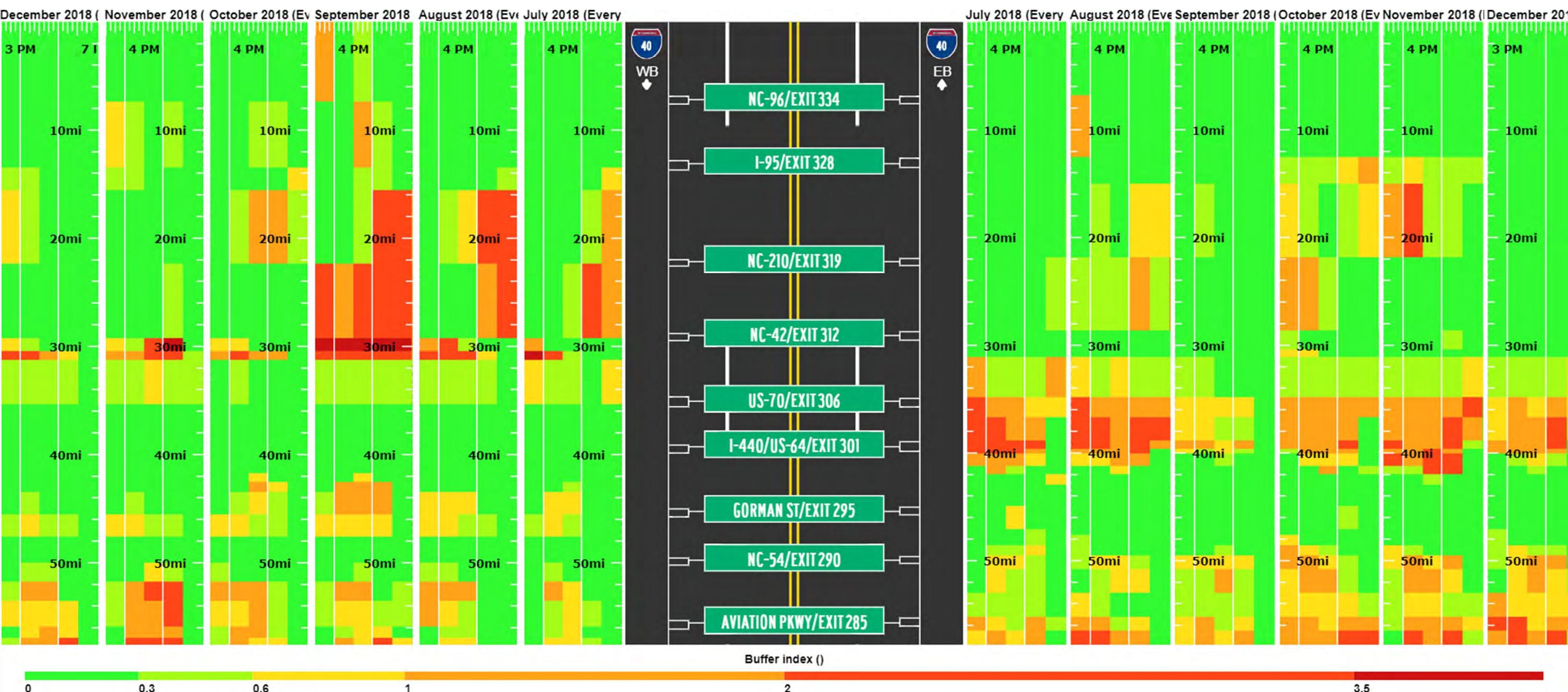
# I-40 Buffer Index, PM Peak in Jan thru Jun 2018

Buffer index for I-40 using HERE data



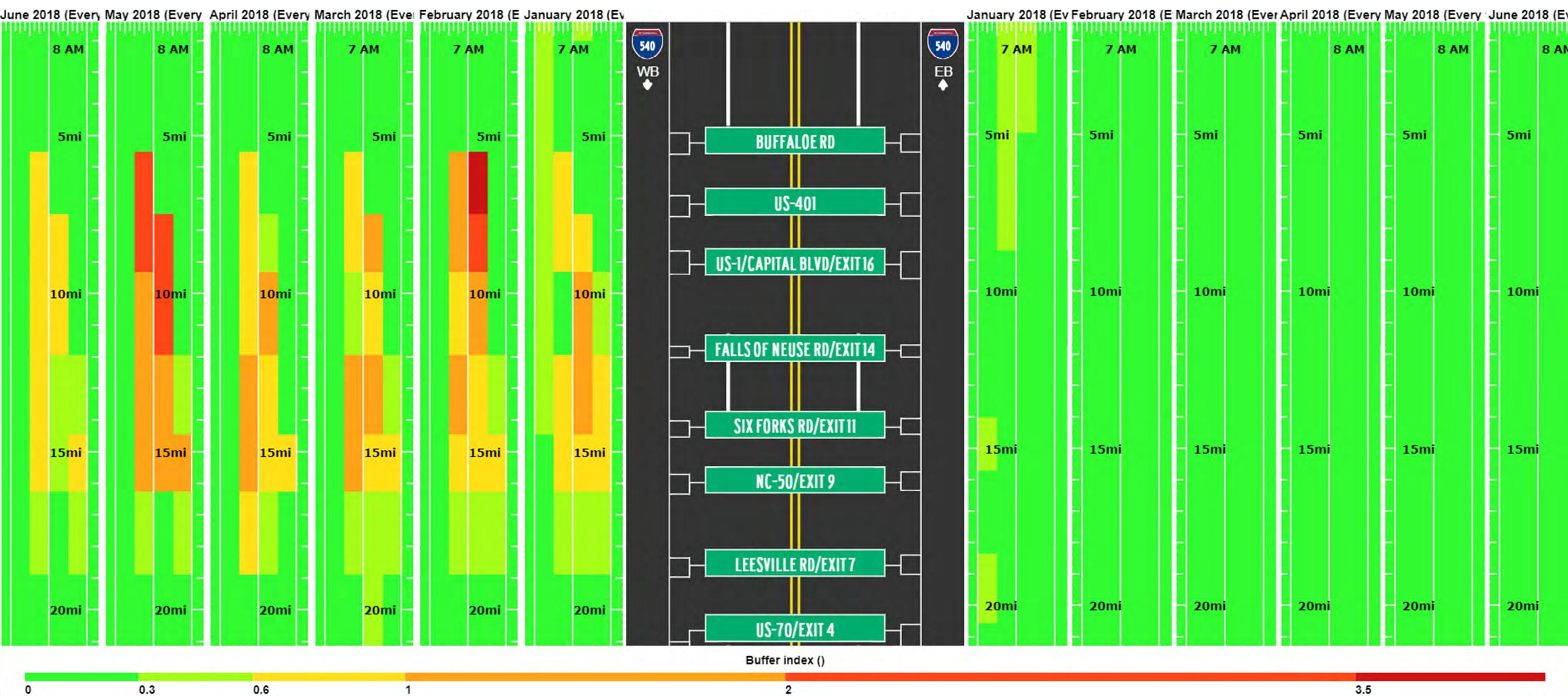
# I-40 Buffer Index, PM Peak in Jul thru Dec 2018

Buffer index for I-40 using HERE data



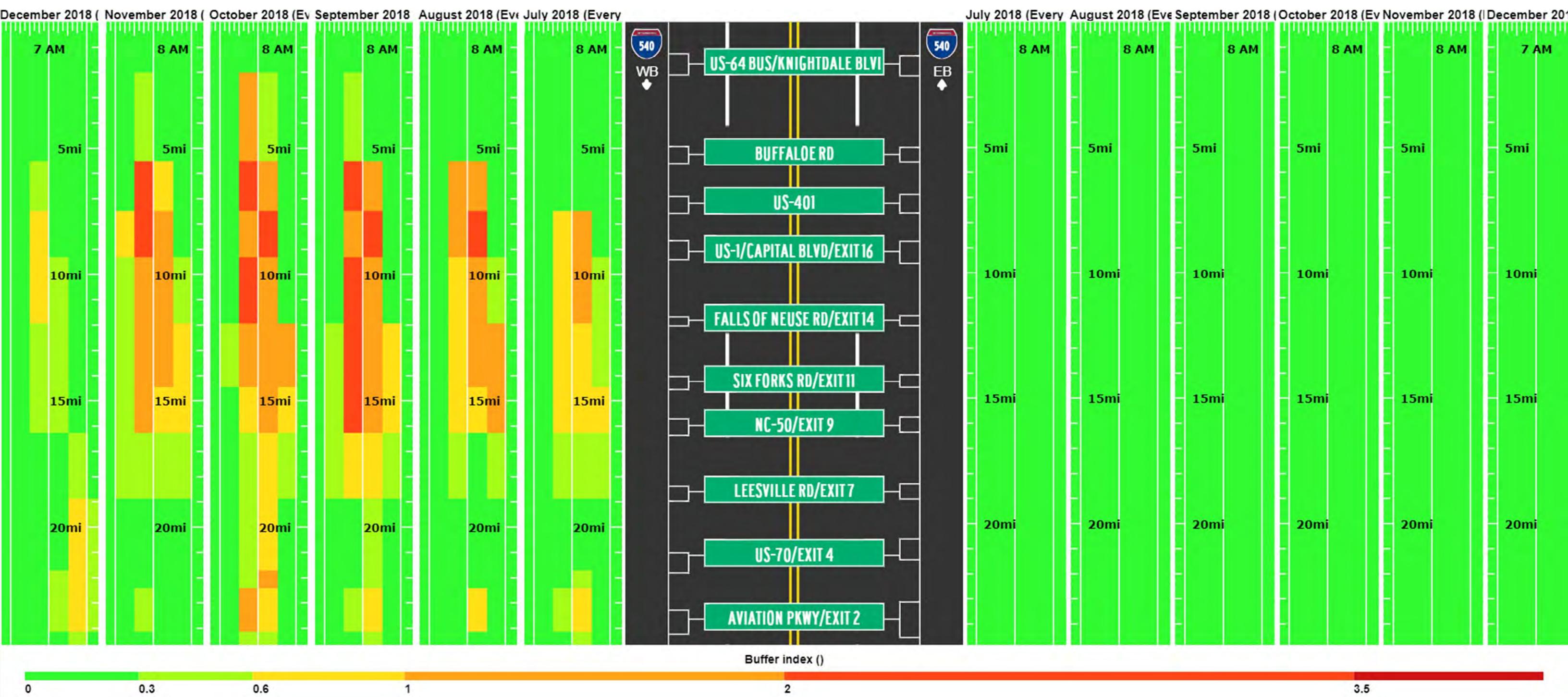
# I-540 Buffer Index, AM Peak in Jan thru Jun 2018

## Buffer index for I-540 using HERE data



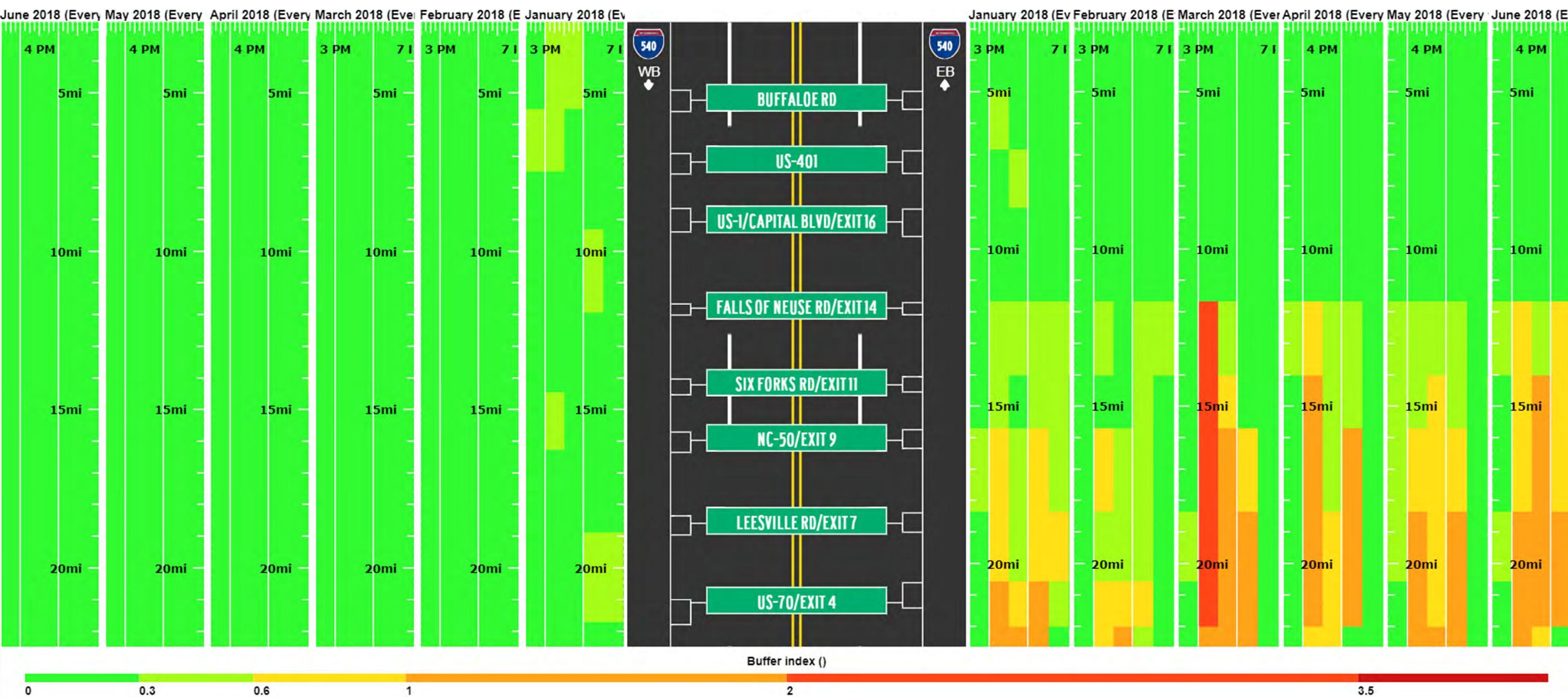
# I-540 Buffer Index, AM Peak in Jul thru Dec 2018

Buffer index for I-540 using HERE data



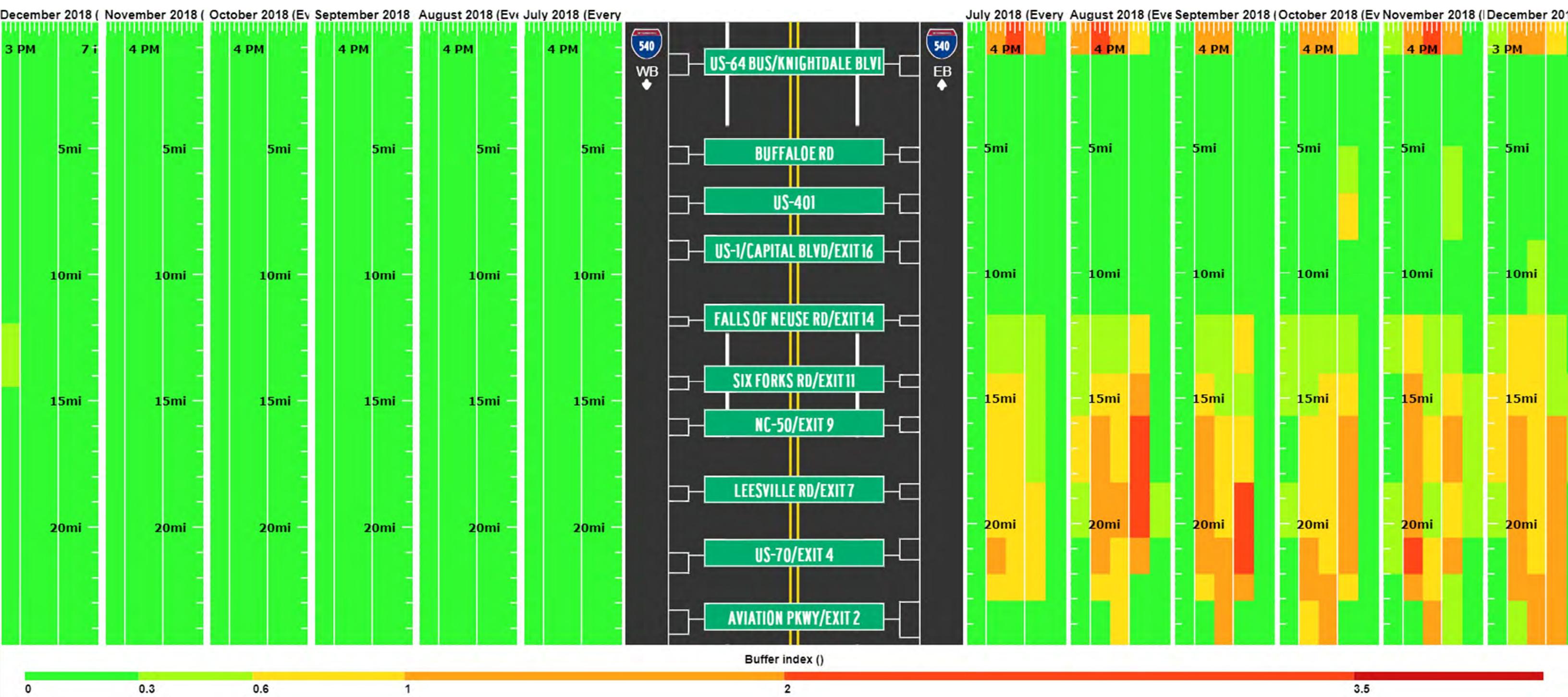
# I-540 Buffer Index, PM Peak in Jan thru Jun 2018

## Buffer index for I-540 using HERE data



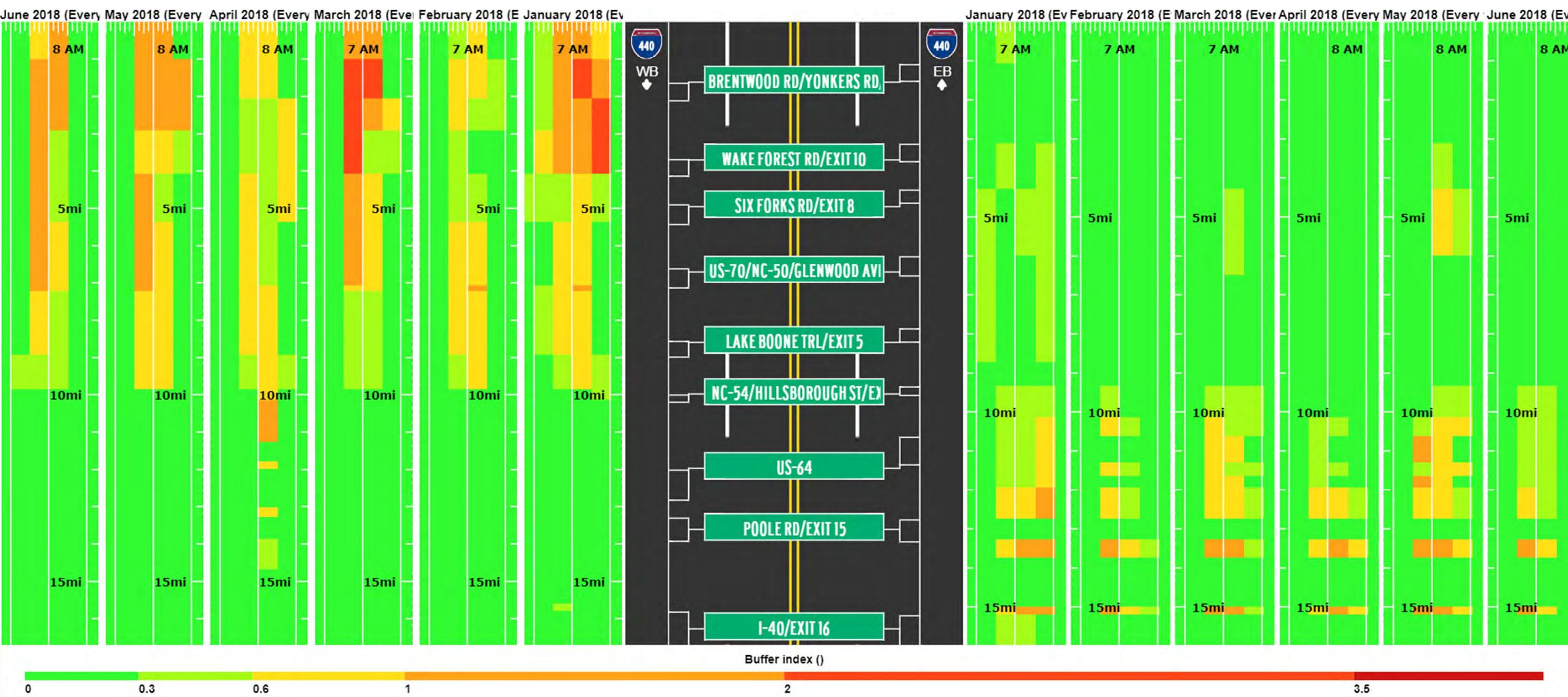
# I-540 Buffer Index, PM Peak in Jul thru Dec 2018

Buffer index for I-540 using HERE data



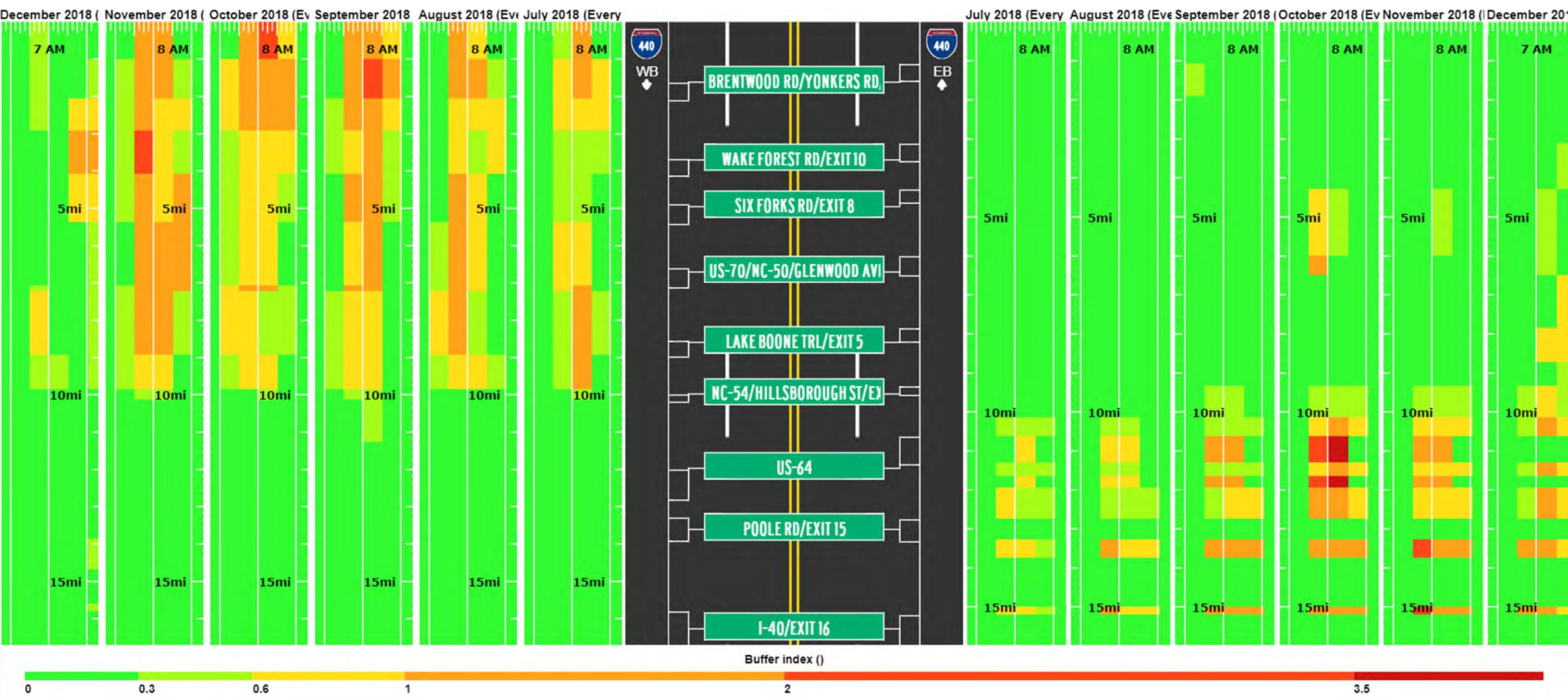
# I-440 Buffer Index, AM Peak in Jan thru Jun 2018

Buffer index for I-440 using HERE data



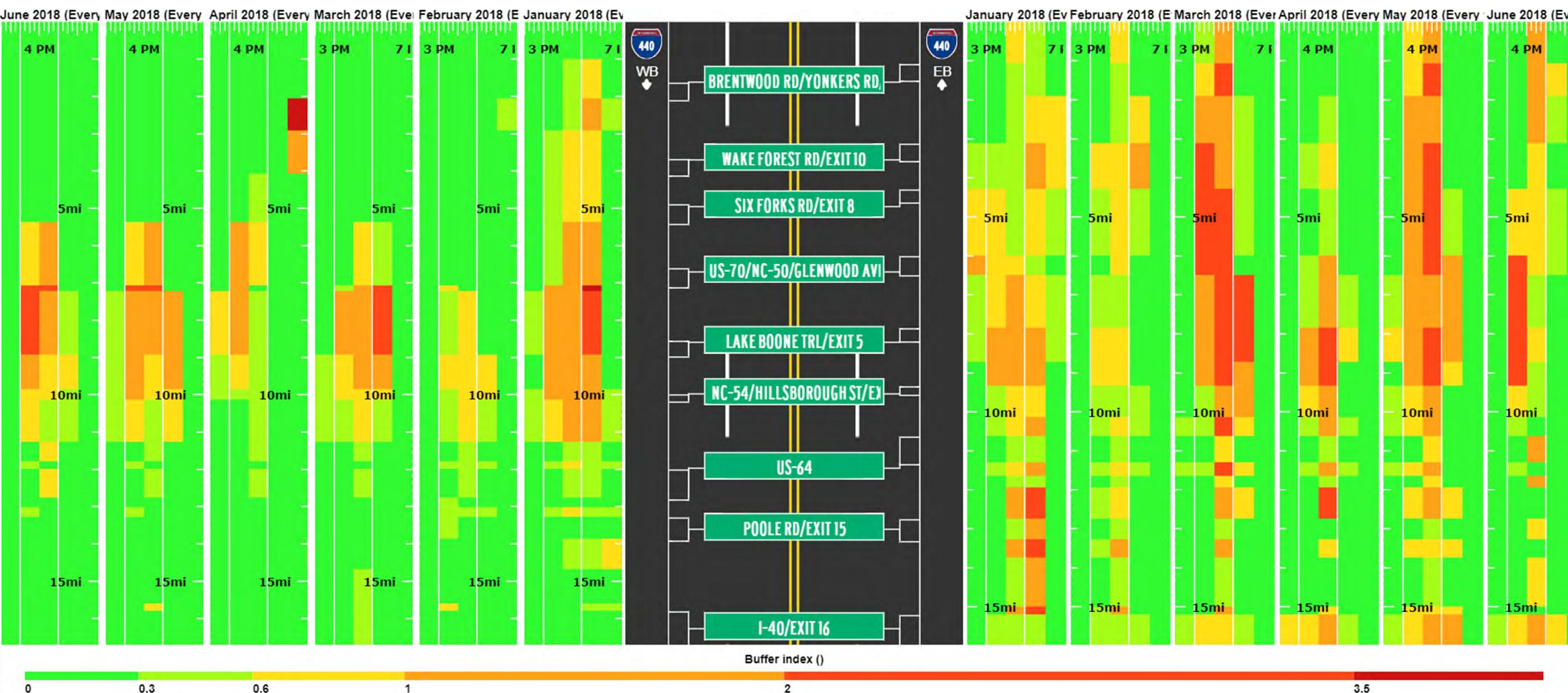
# I-440 Buffer Index, AM Peak in Jul thru Dec 2018

## Buffer index for I-440 using HERE data



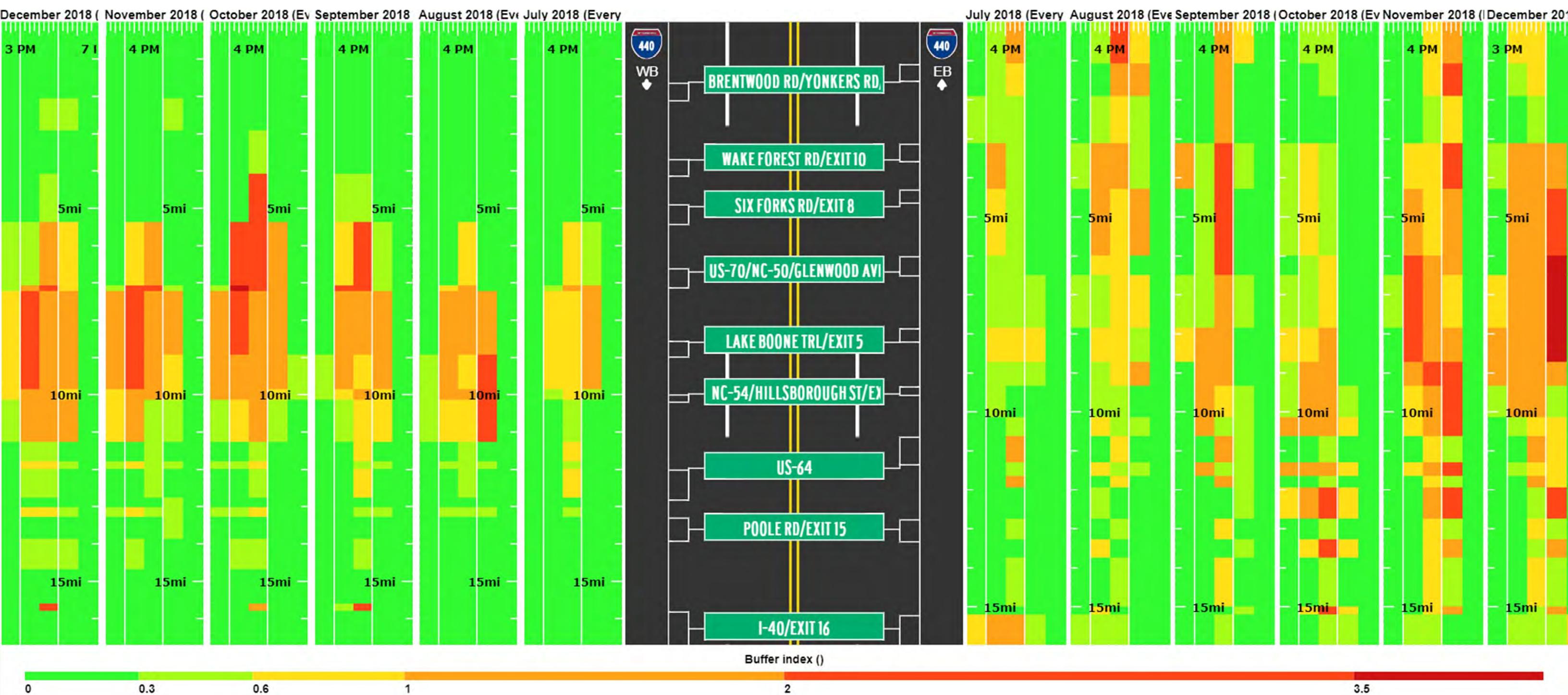
# I-440 Buffer Index, PM Peak in Jan thru Jun 2018

Buffer index for I-440 using HERE data



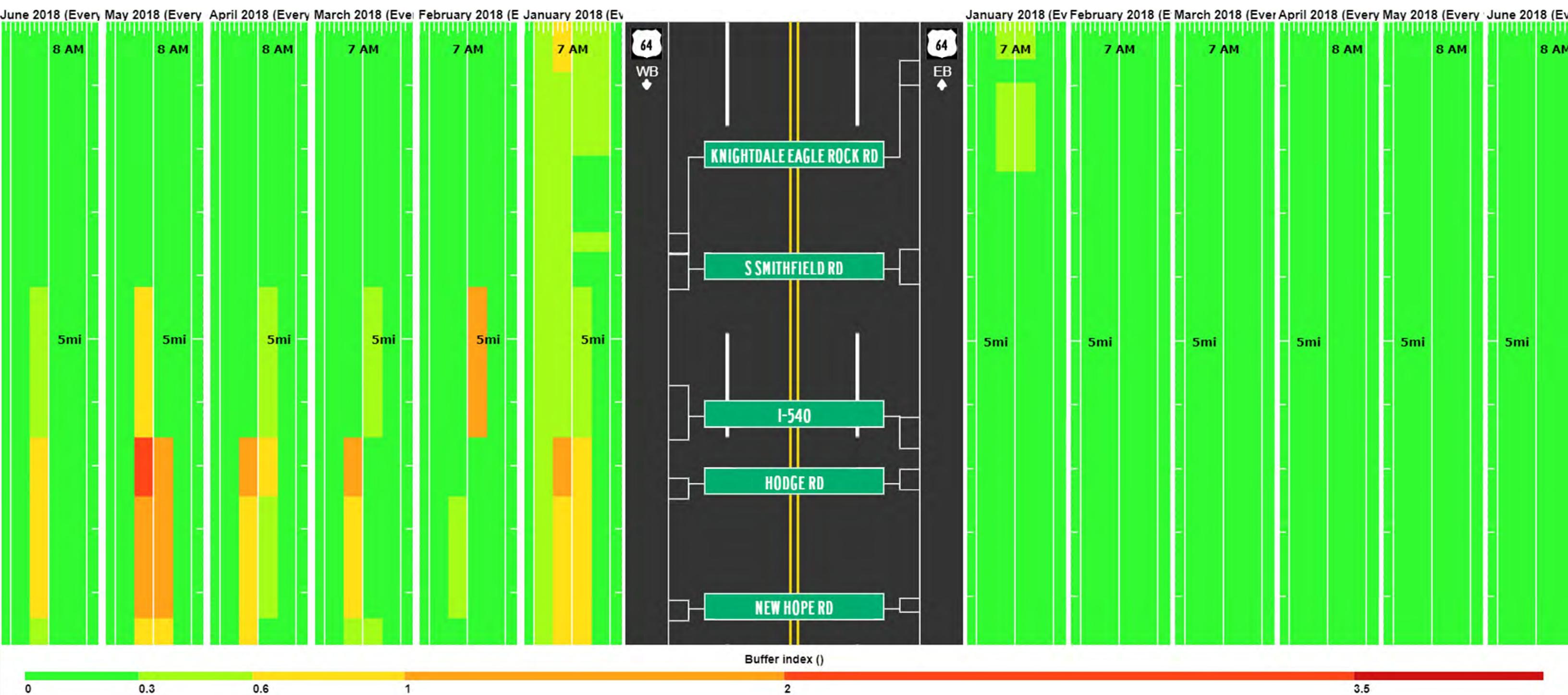
# I-440 Buffer Index, PM Peak in Jul thru Dec 2018

Buffer index for I-440 using HERE data



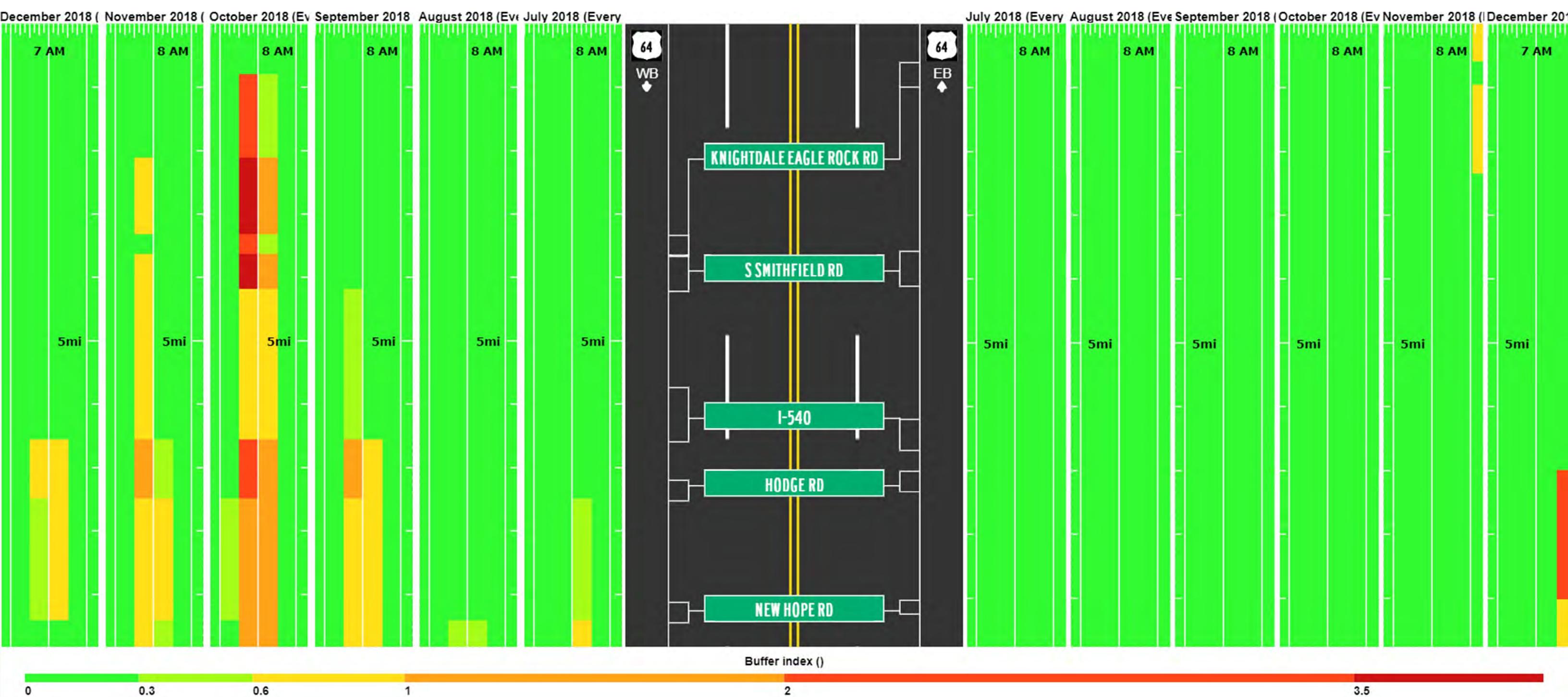
# I-87 Buffer Index, AM Peak in Jan thru Jun 2018

Buffer index for I-87 using HERE data



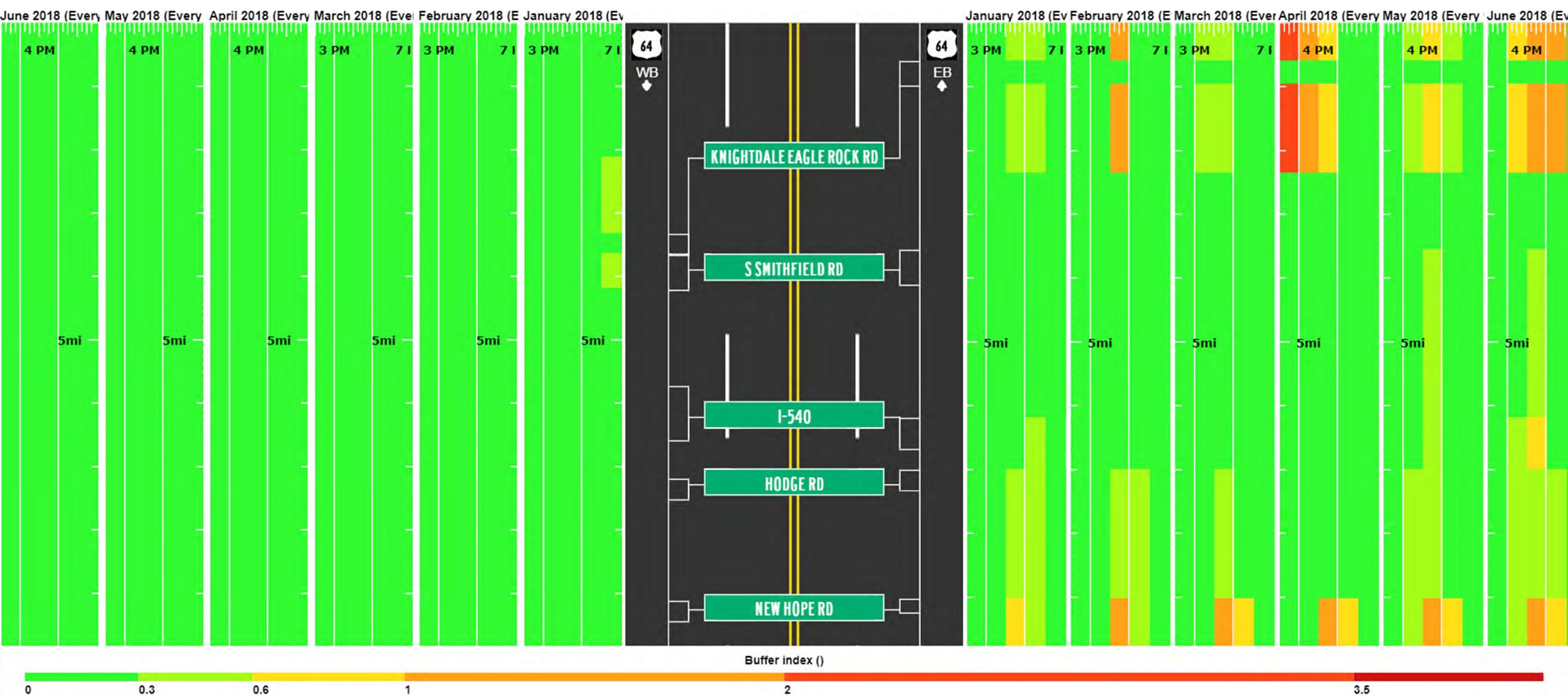
# I-87 Buffer Index, AM Peak in Jul thru Dec 2018

Buffer index for I-87 using HERE data



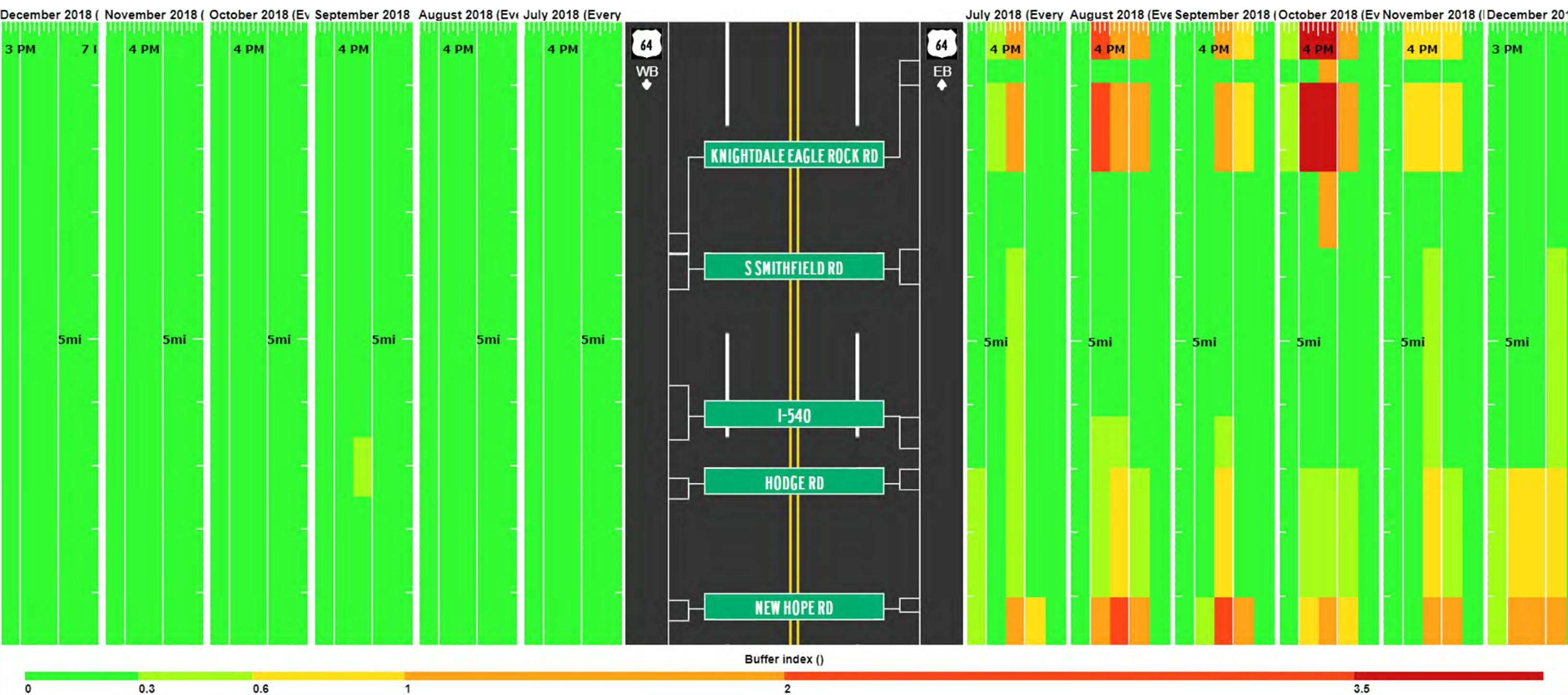
# I-87 Buffer Index, PM Peak in Jan thru Jun 2018

Buffer index for I-87 using HERE data



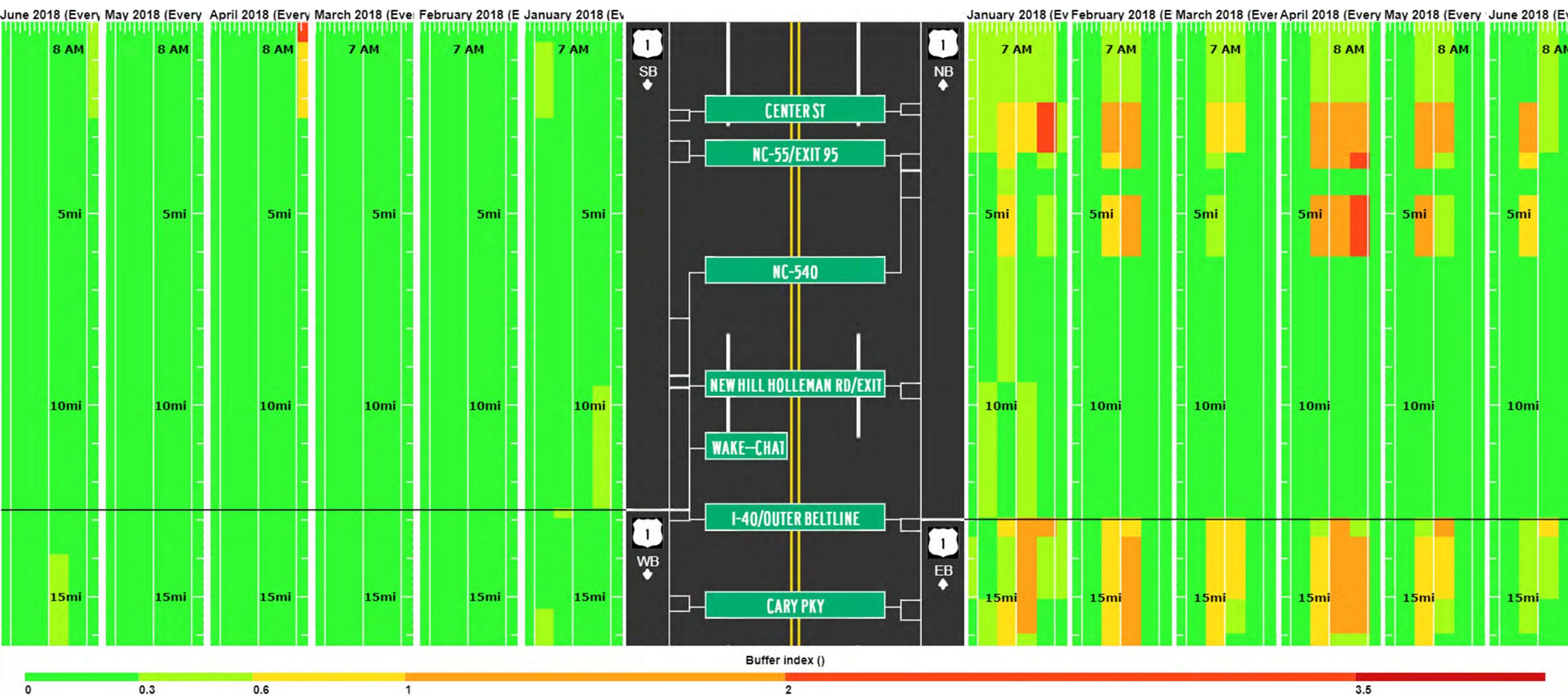
# I-87 Buffer Index, PM Peak in Jul thru Dec 2018

Buffer index for I-87 using HERE data



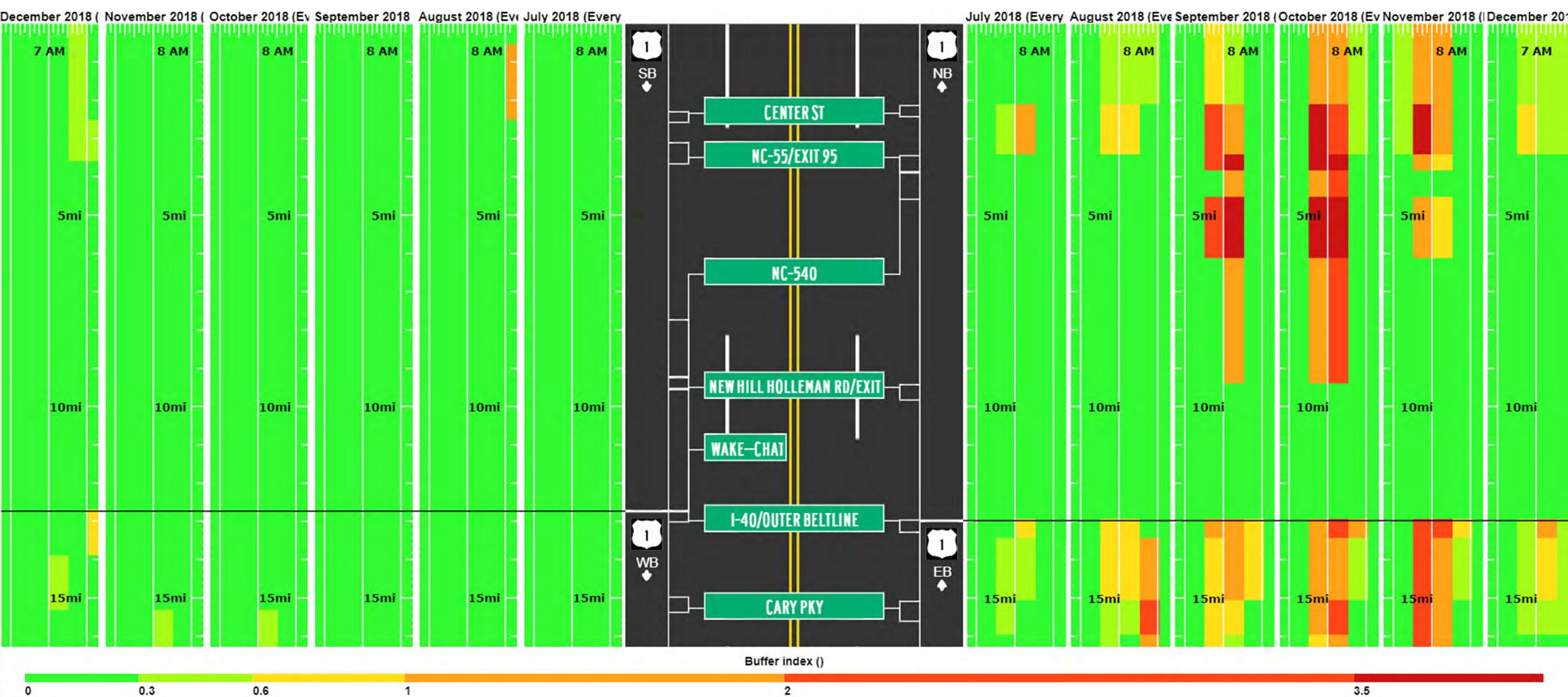
# US-1 (South) Buffer Index, AM Peak in Jan-Jun 2018

Buffer index for US-1 and US-1/US-64 using HERE data



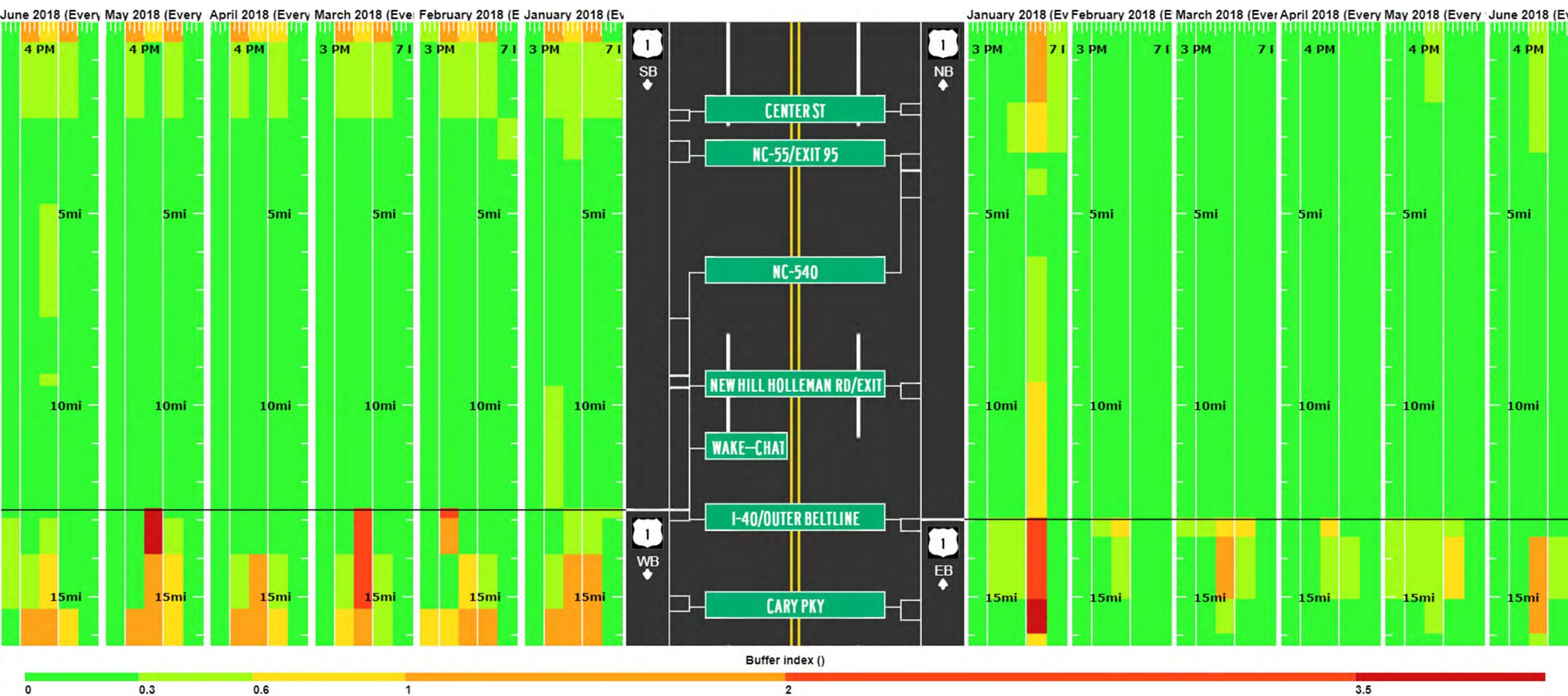
# US-1 (South) Buffer Index, AM Peak in Jul-Dec 2018

Buffer index for US-1 and US-1/US-64 using HERE data



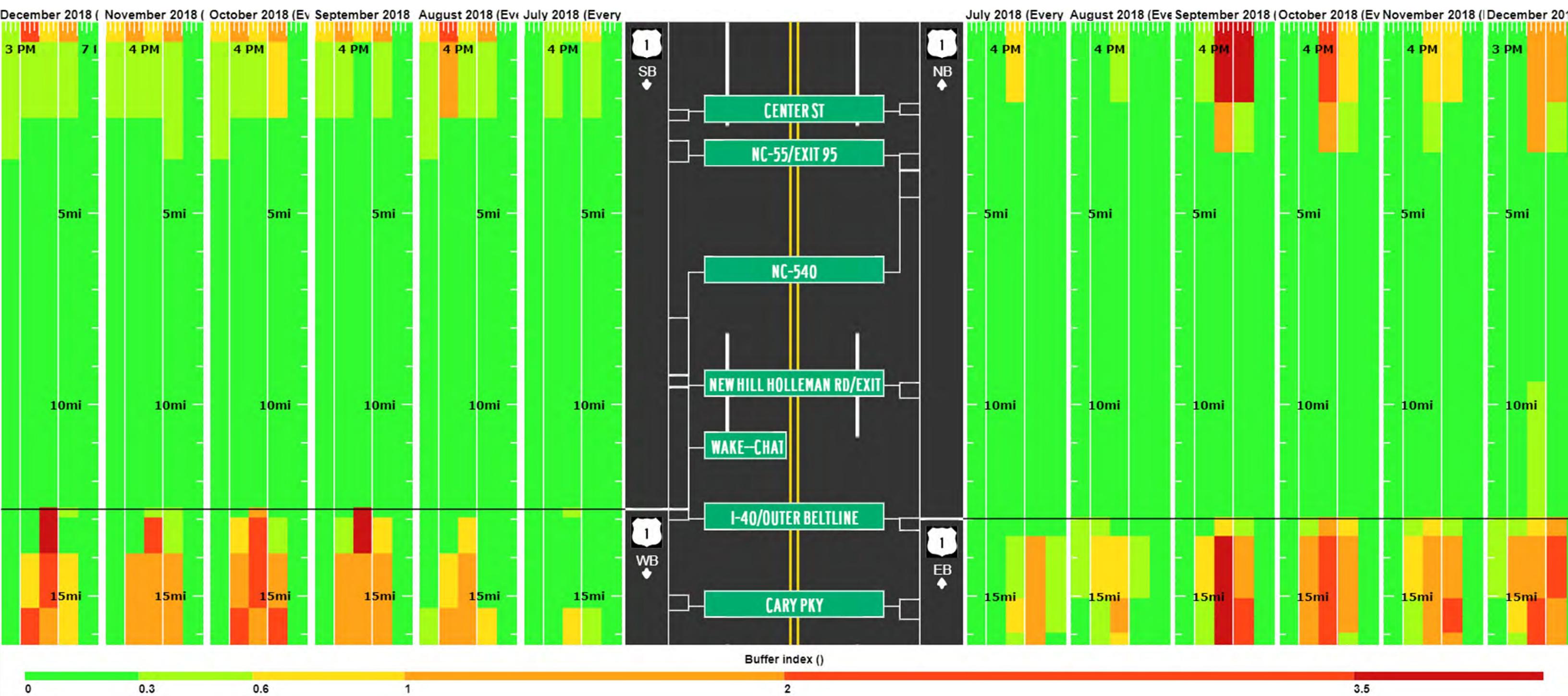
# US-1 (South) Buffer Index, PM Peak in Jan-Jun 2018

Buffer index for US-1 and US-1/US-64 using HERE data



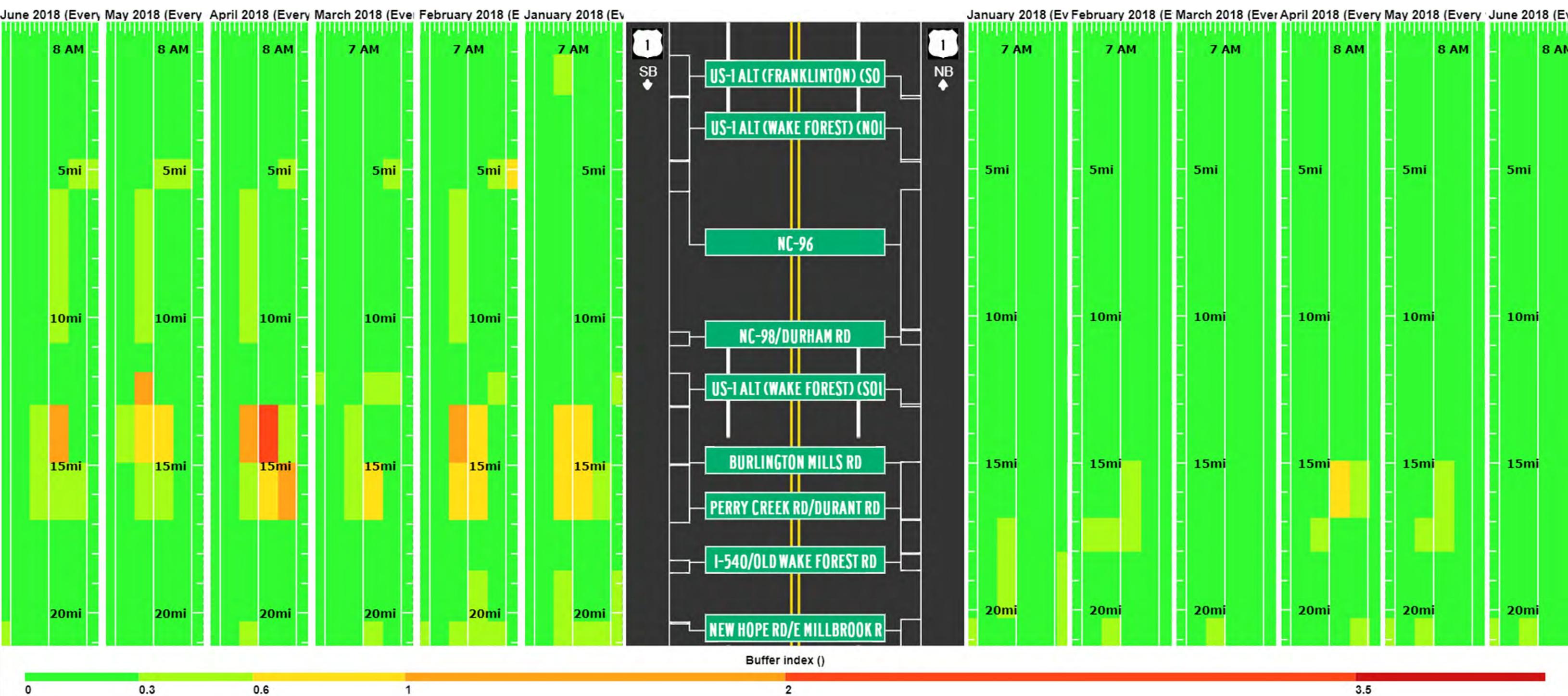
# US-1 (South) Buffer Index, PM Peak in Jul-Dec 2018

Buffer index for US-1 and US-1/US-64 using HERE data



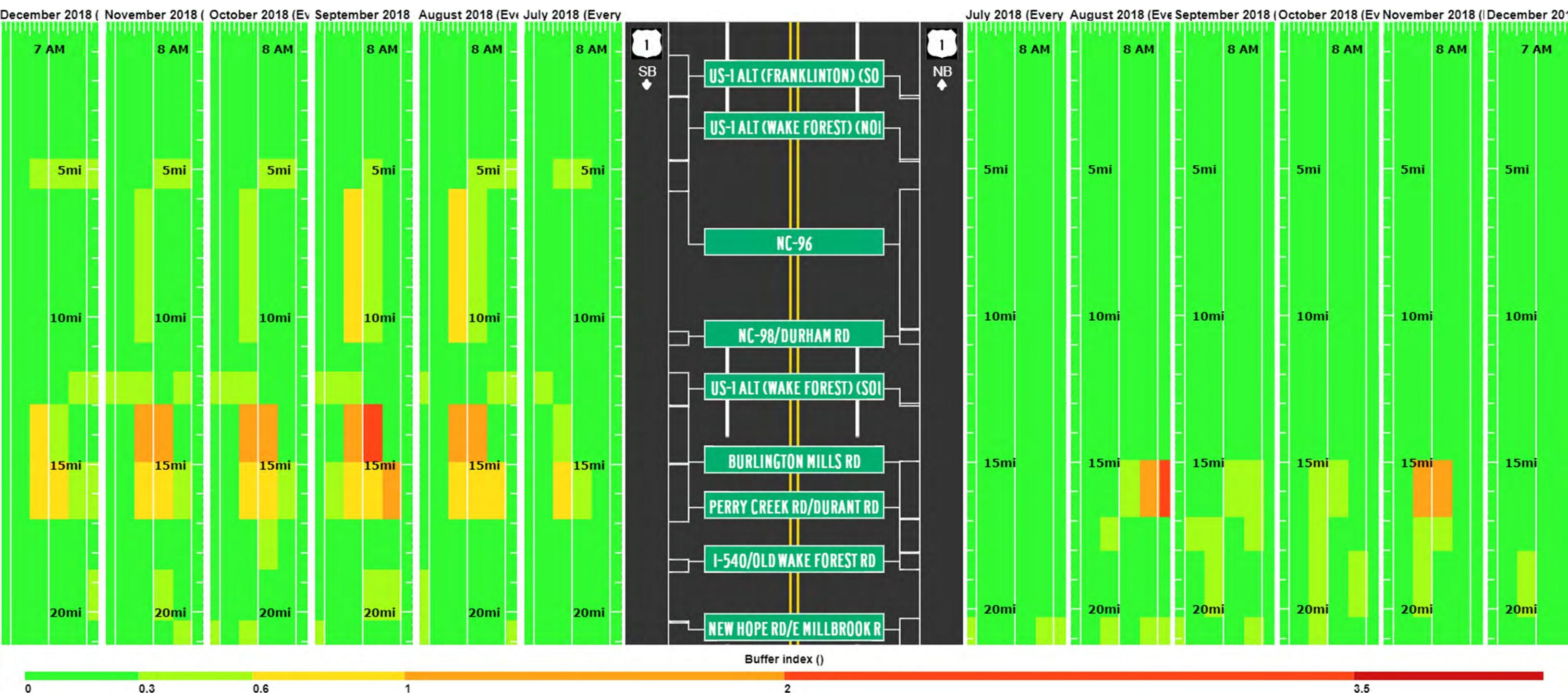
# US-1 (North) Buffer Index, AM Peak in Jan-Jun 2018

Buffer index for US-1 using HERE data



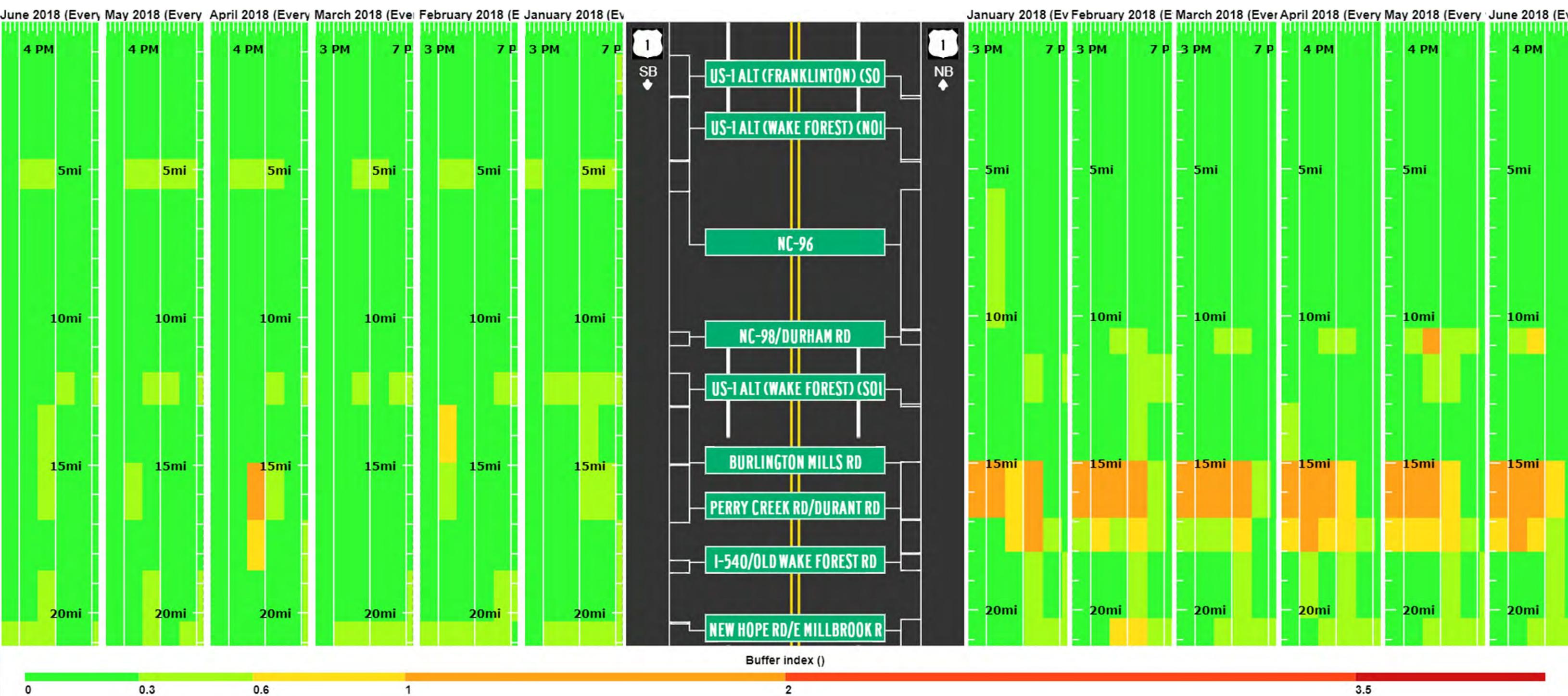
# US-1 (North) Buffer Index, AM Peak in Jul-Dec 2018

Buffer index for US-1 using HERE data



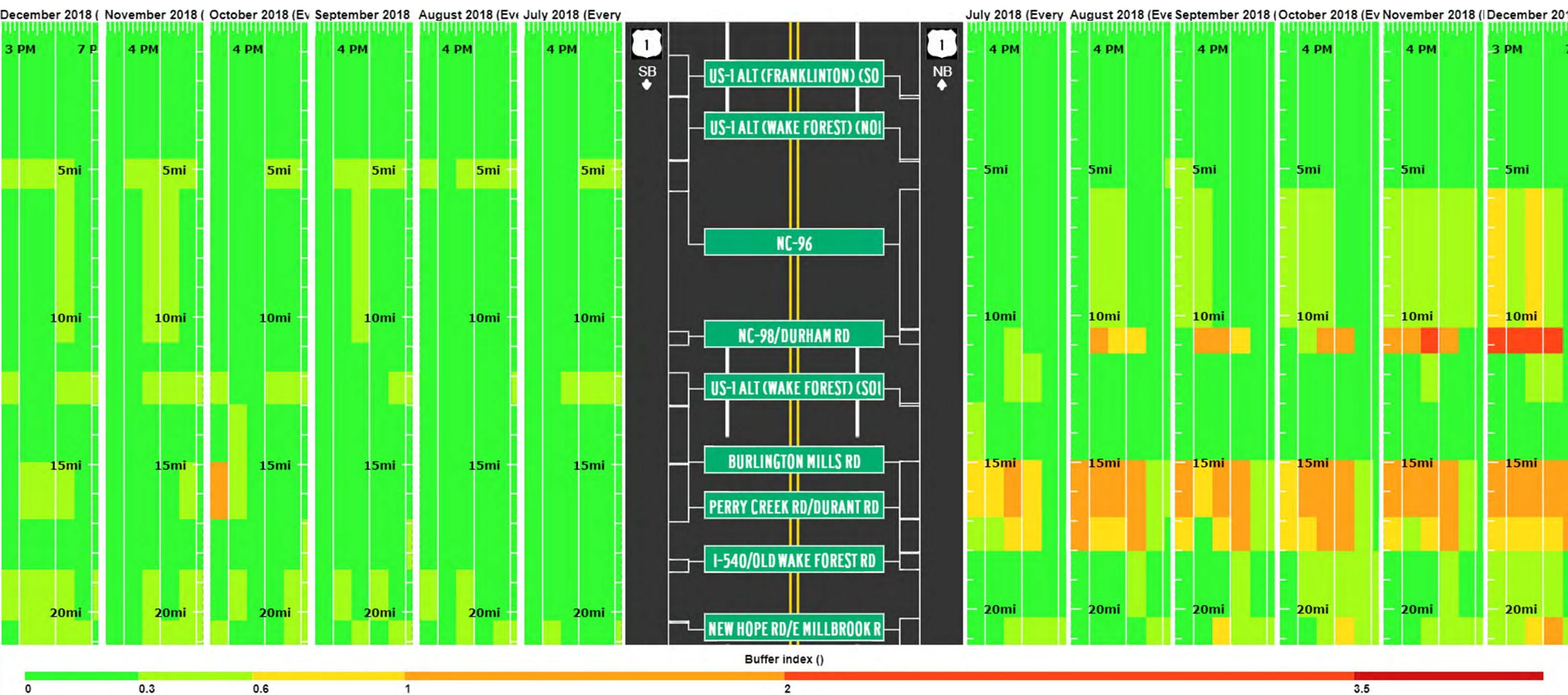
# US-1 (North) Buffer Index, PM Peak in Jan-Jun 2018

Buffer index for US-1 using HERE data



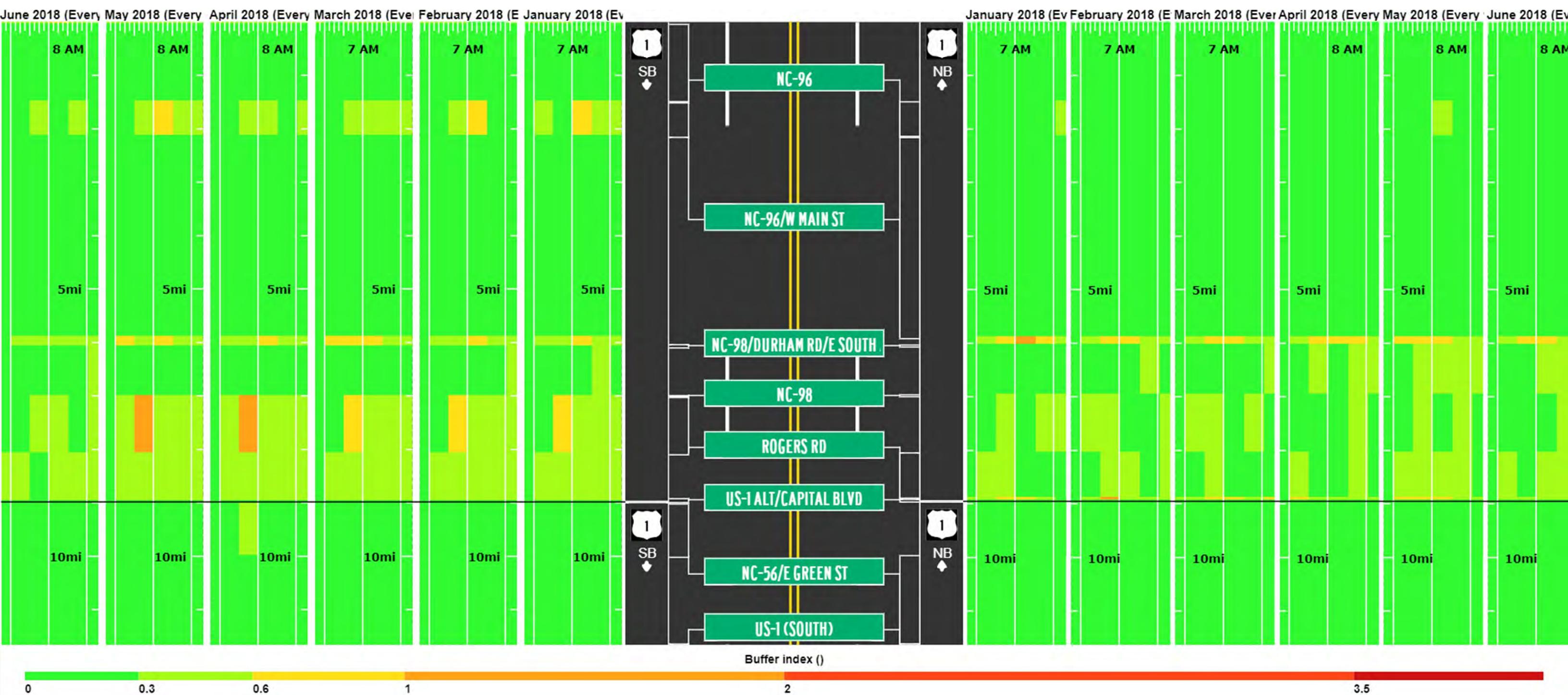
# US-1 (North) Buffer Index, PM Peak in Jul-Dec 2018

Buffer index for US-1 using HERE data



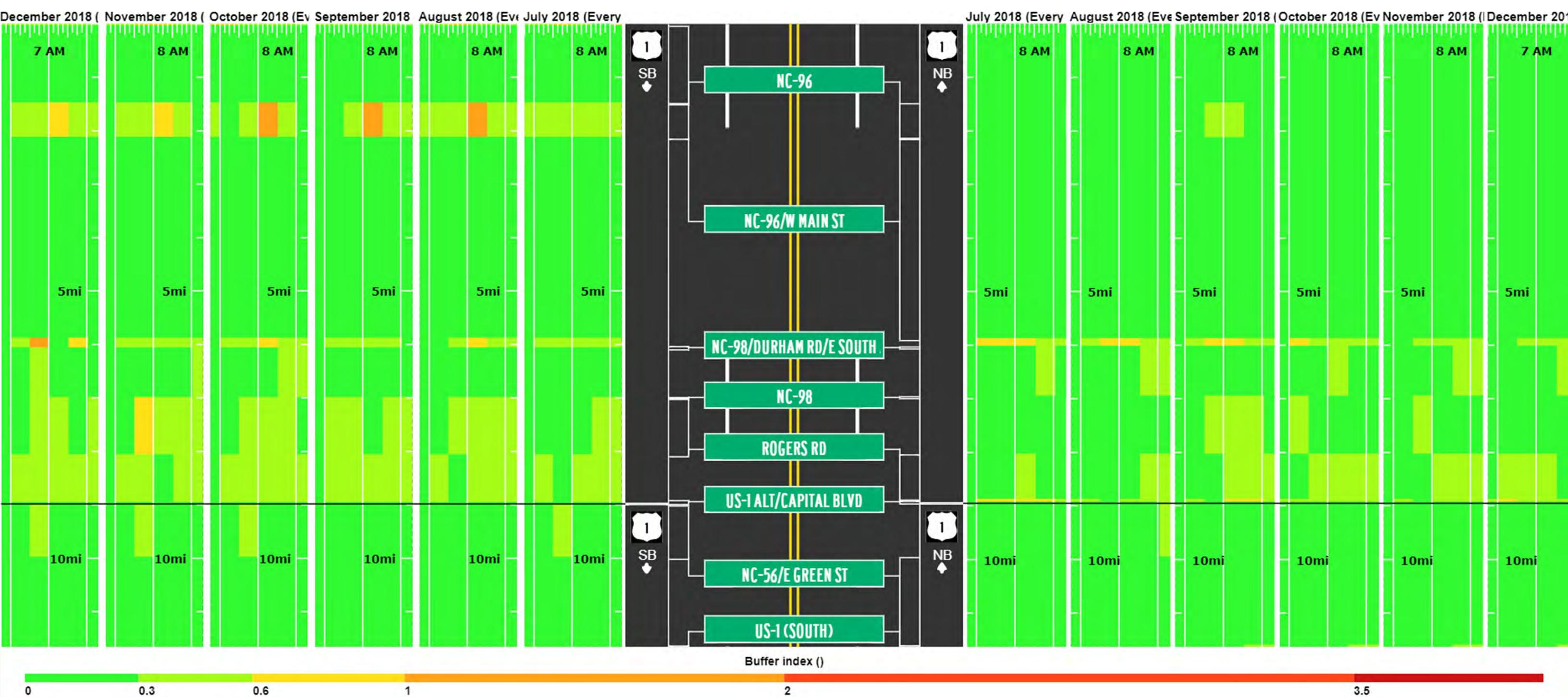
# US-1 ALT Buffer Index, AM Peak in Jan thru Jun 2018

Buffer index for US-1-ALT and US-1-ALT/MAIN ST using HERE data



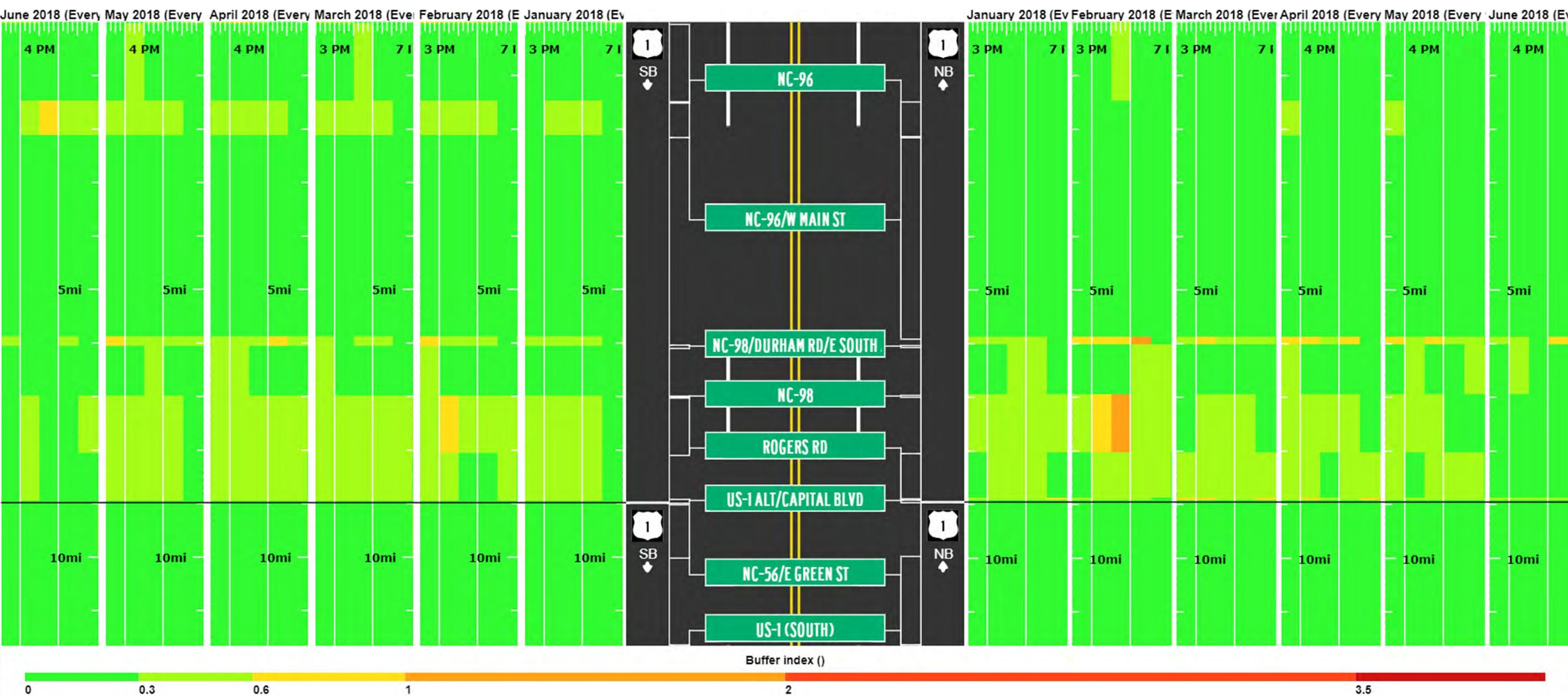
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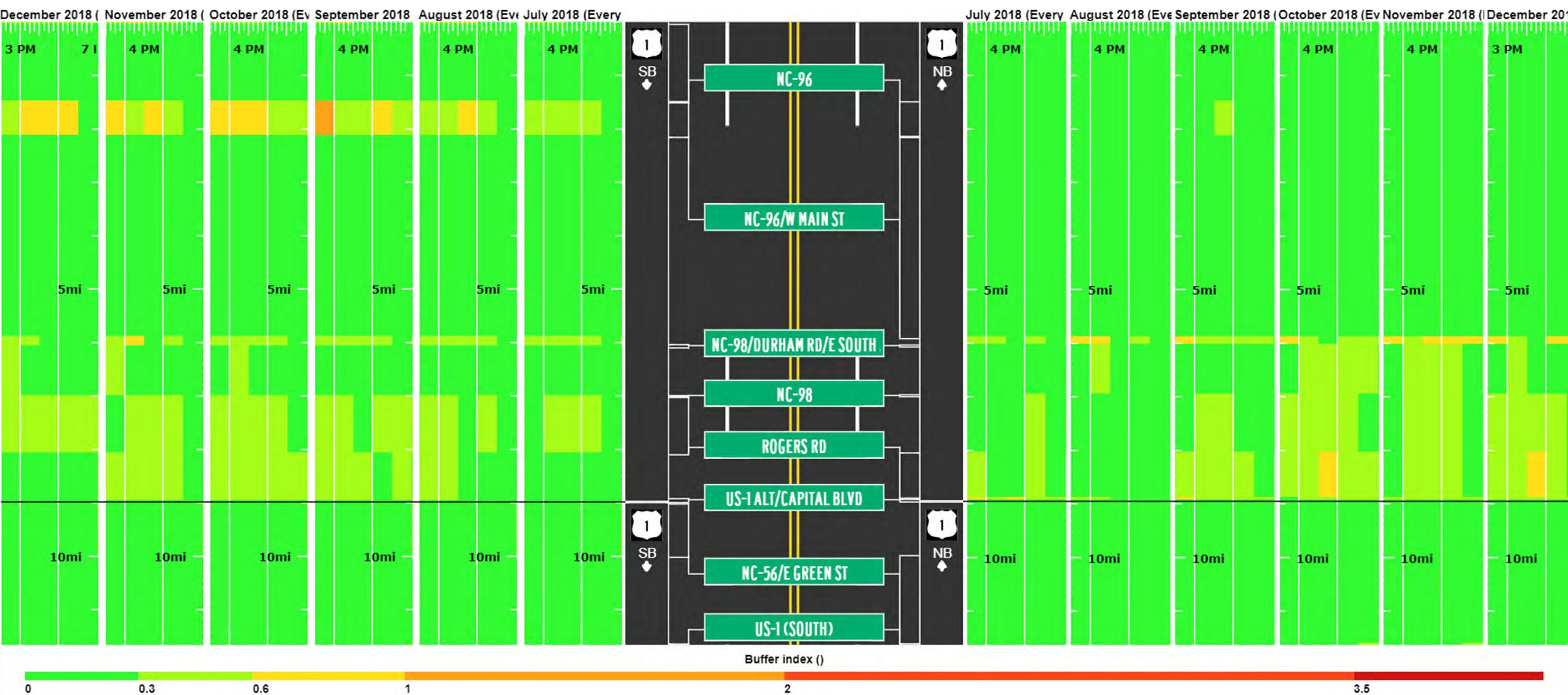
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Buffer index for US-1-ALT and US-1-ALT/MAIN ST using HERE data



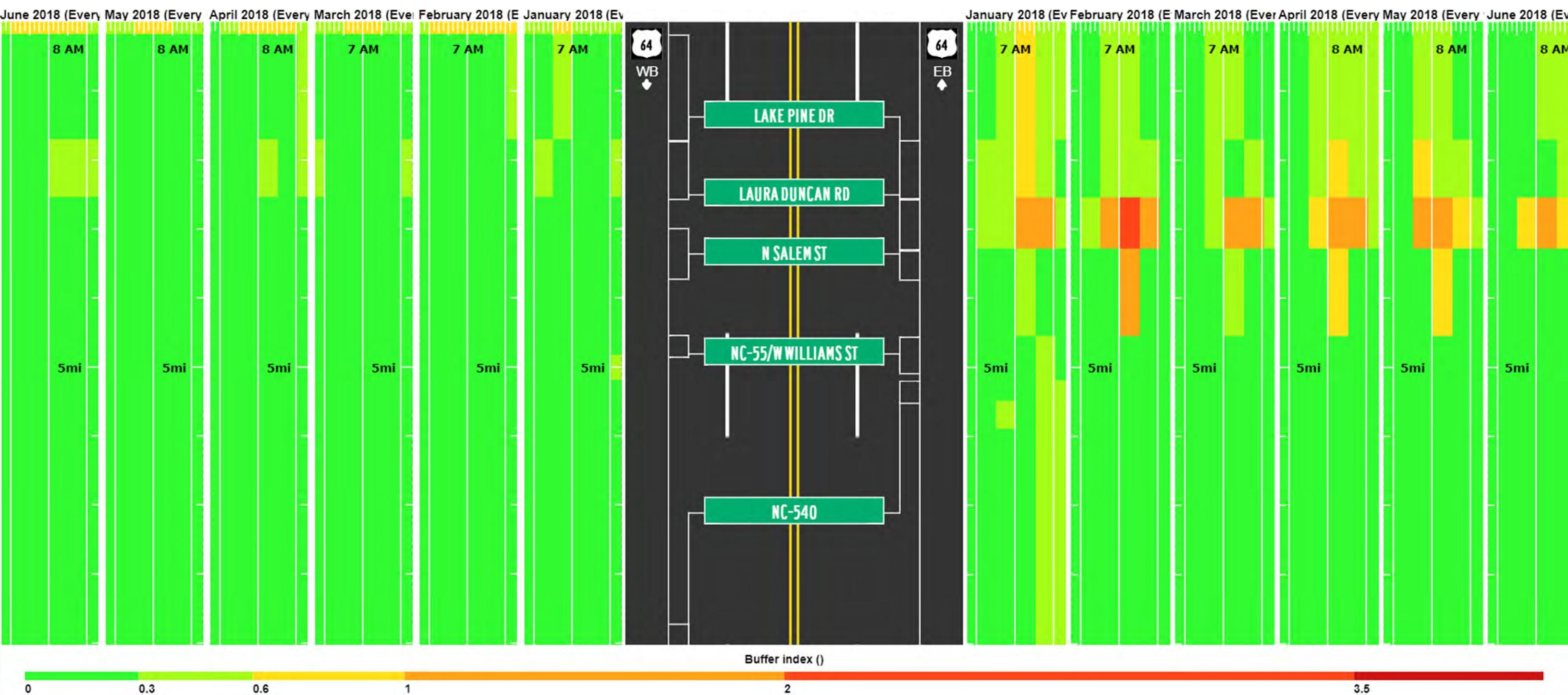
US-1 ALT Buffer Index, PM Peak in Jul thru Dec 2018

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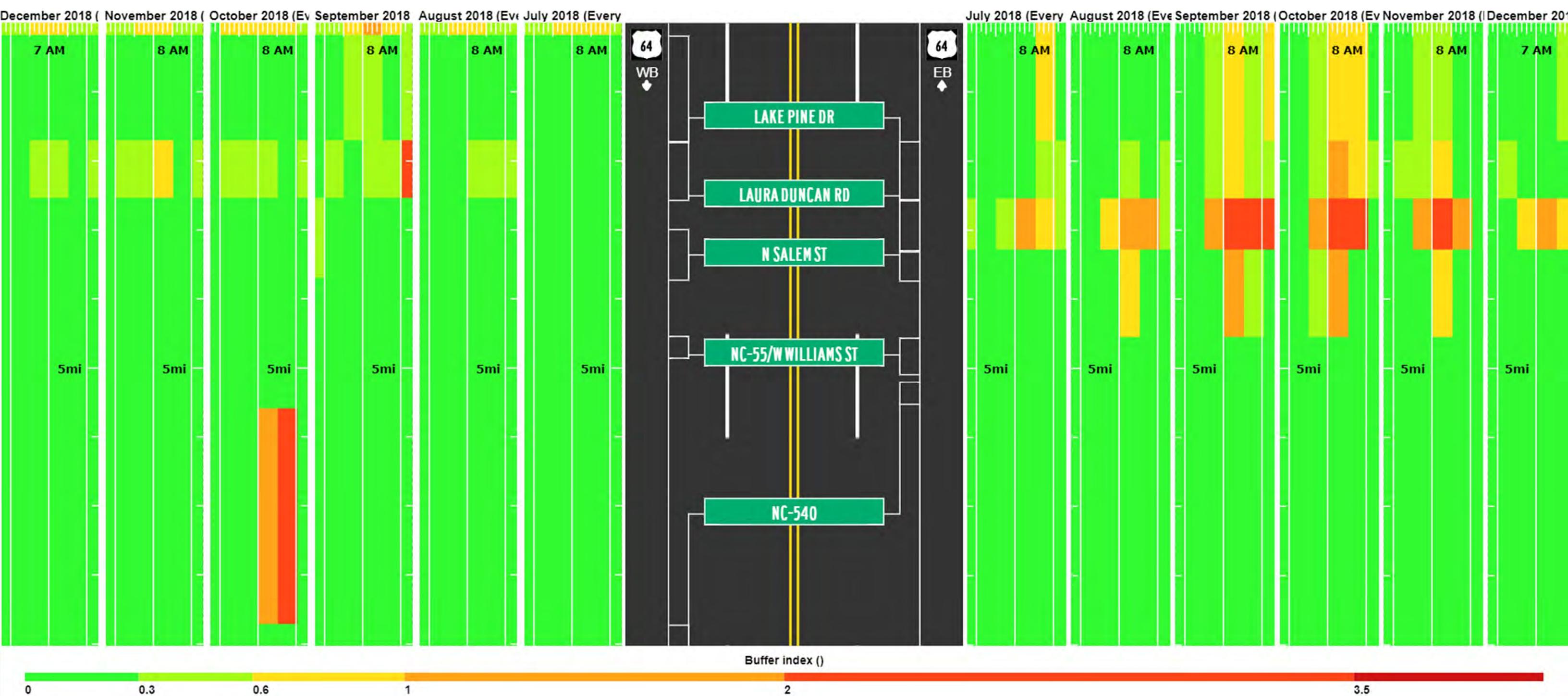
# US-64 (Cary) Buffer Index, AM Peak in Jan-Jun 2018

Buffer index for US-64 using HERE data



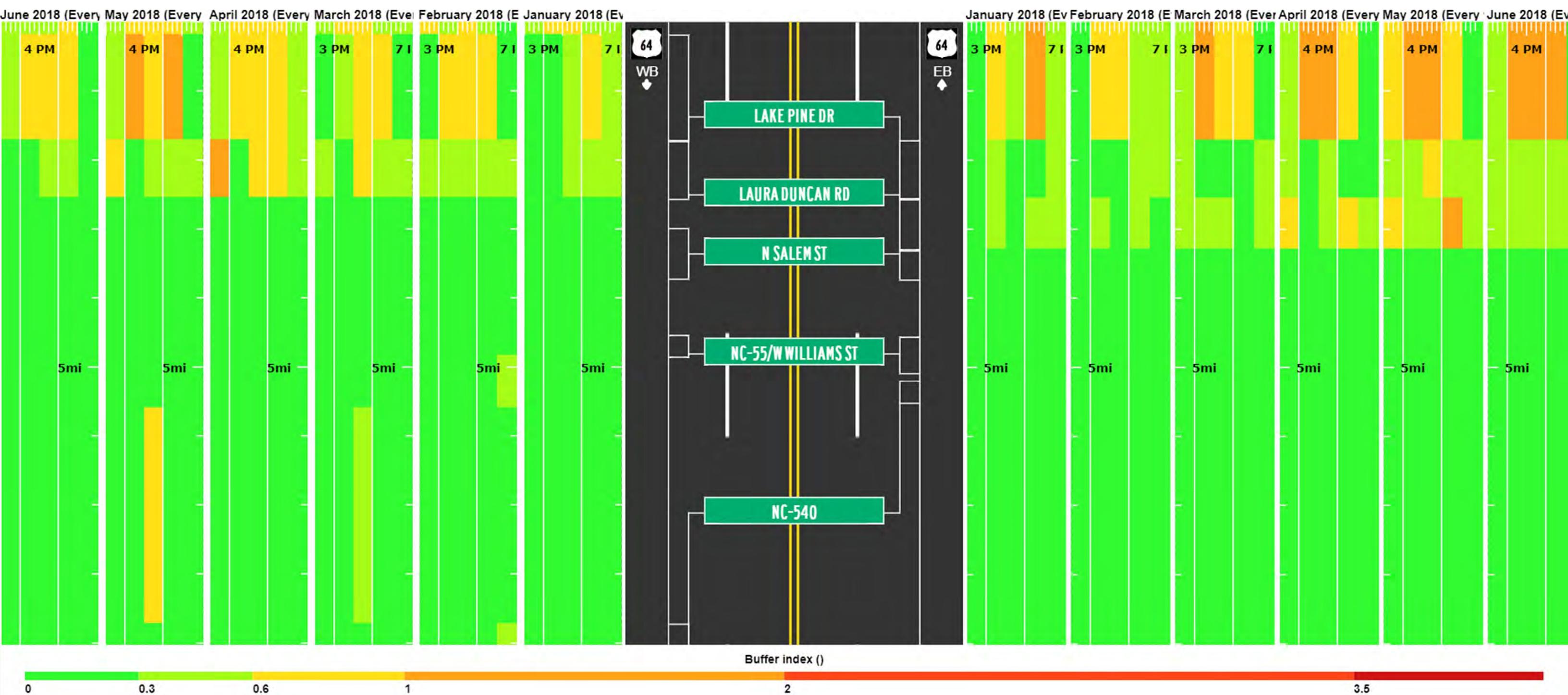
# US-64 (Cary) Buffer Index, AM Peak in Jul-Dec 2018

Buffer index for US-64 using HERE data



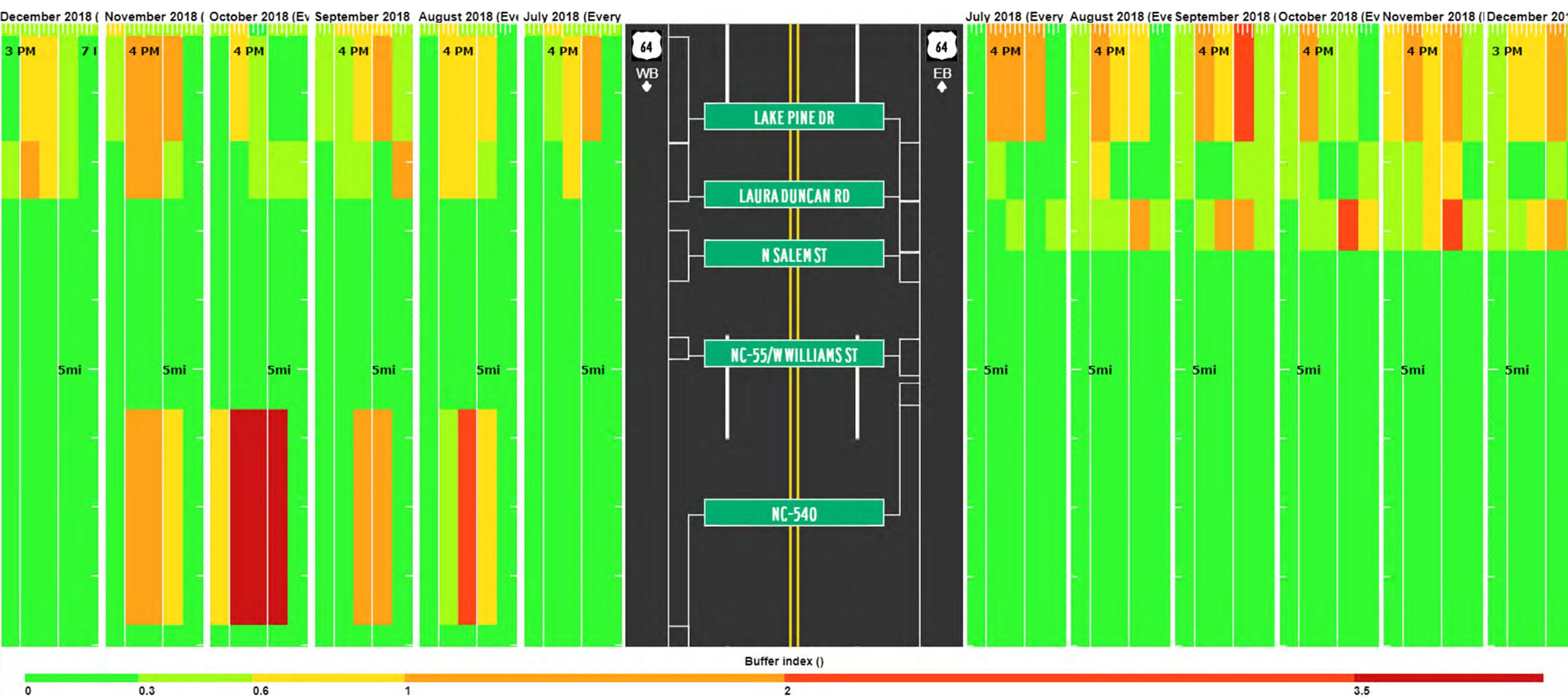
# US-64 (Cary) Buffer Index, PM Peak in Jan-Jun 2018

Buffer index for US-64 using HERE data



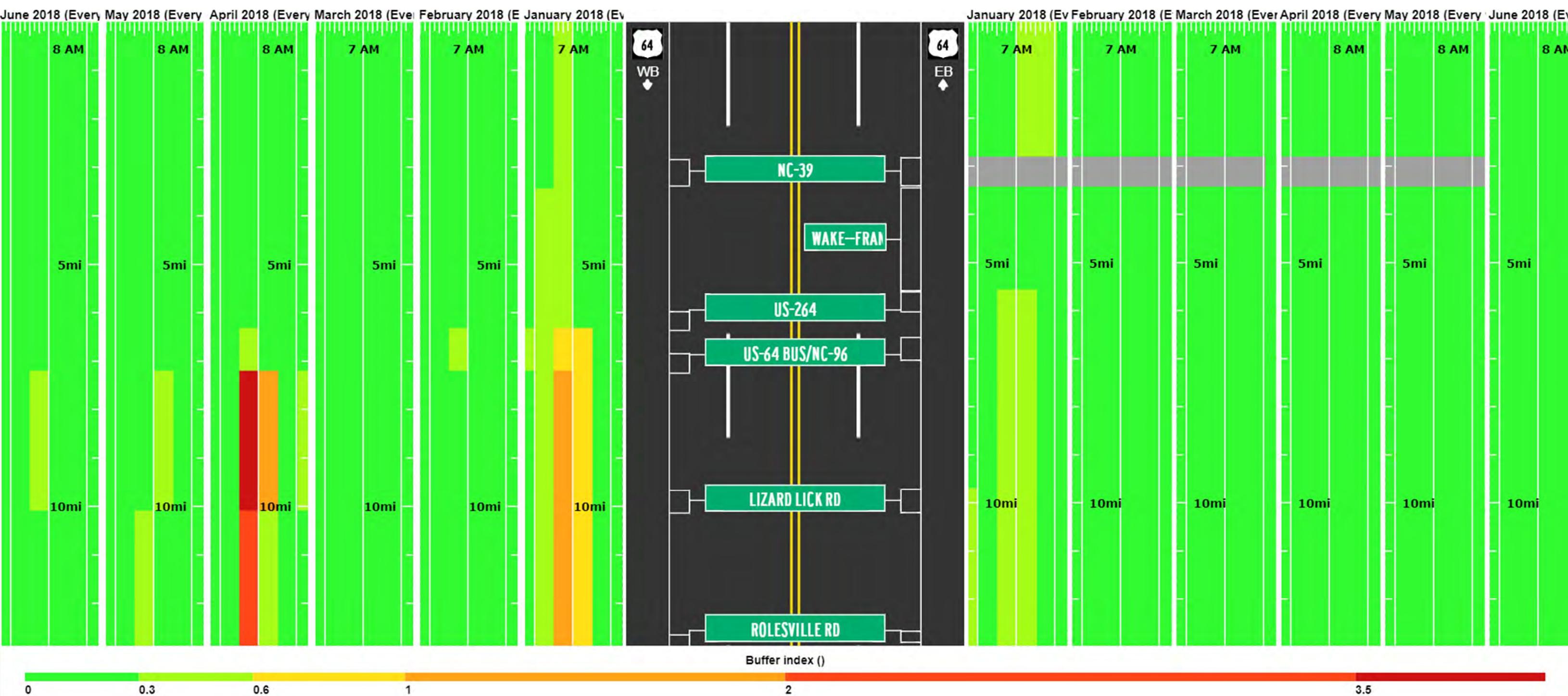
# US-64 (Cary) Buffer Index, PM Peak in Jul-Dec 2018

Buffer index for US-64 using HERE data



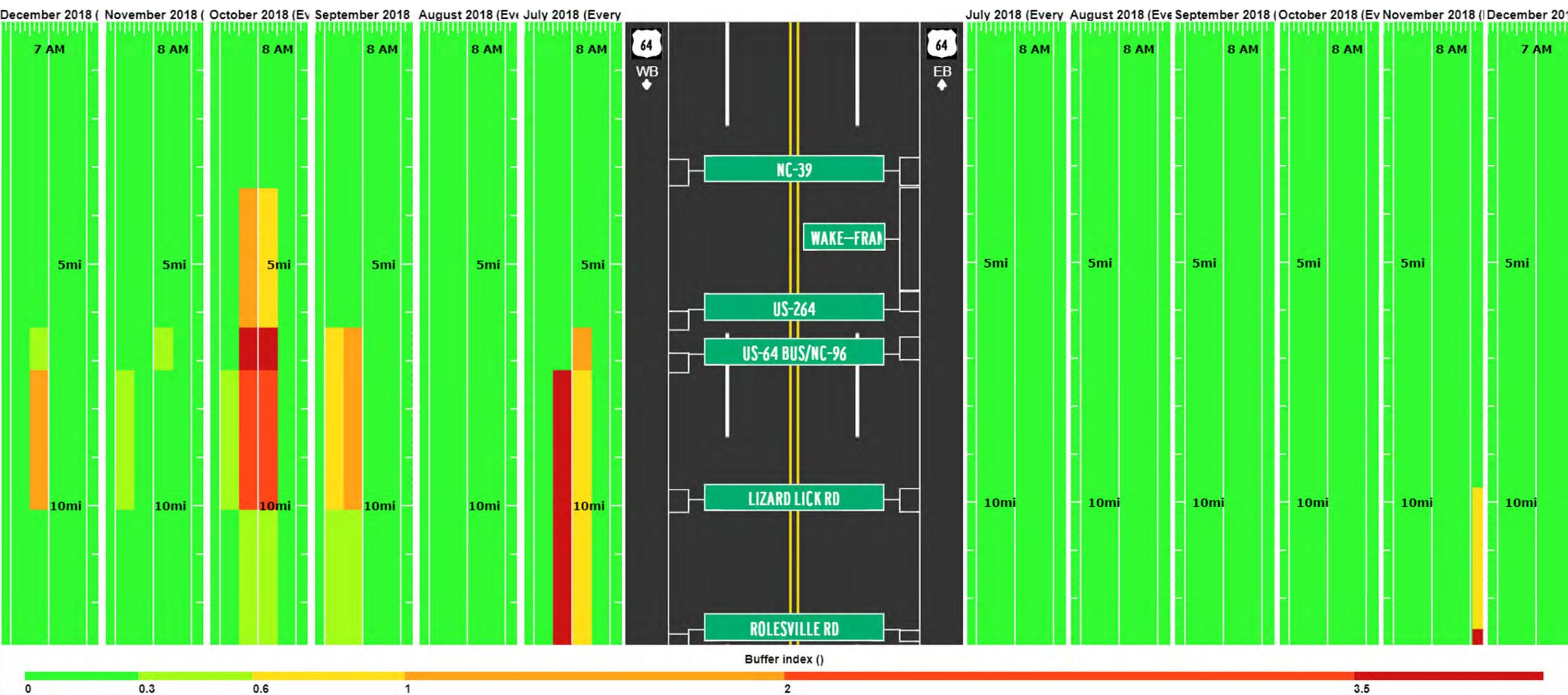
# US-64 (Zebulon) Buffer Index, AM Peak in Jan-Jun 2018

Buffer index for US-64 using HERE data



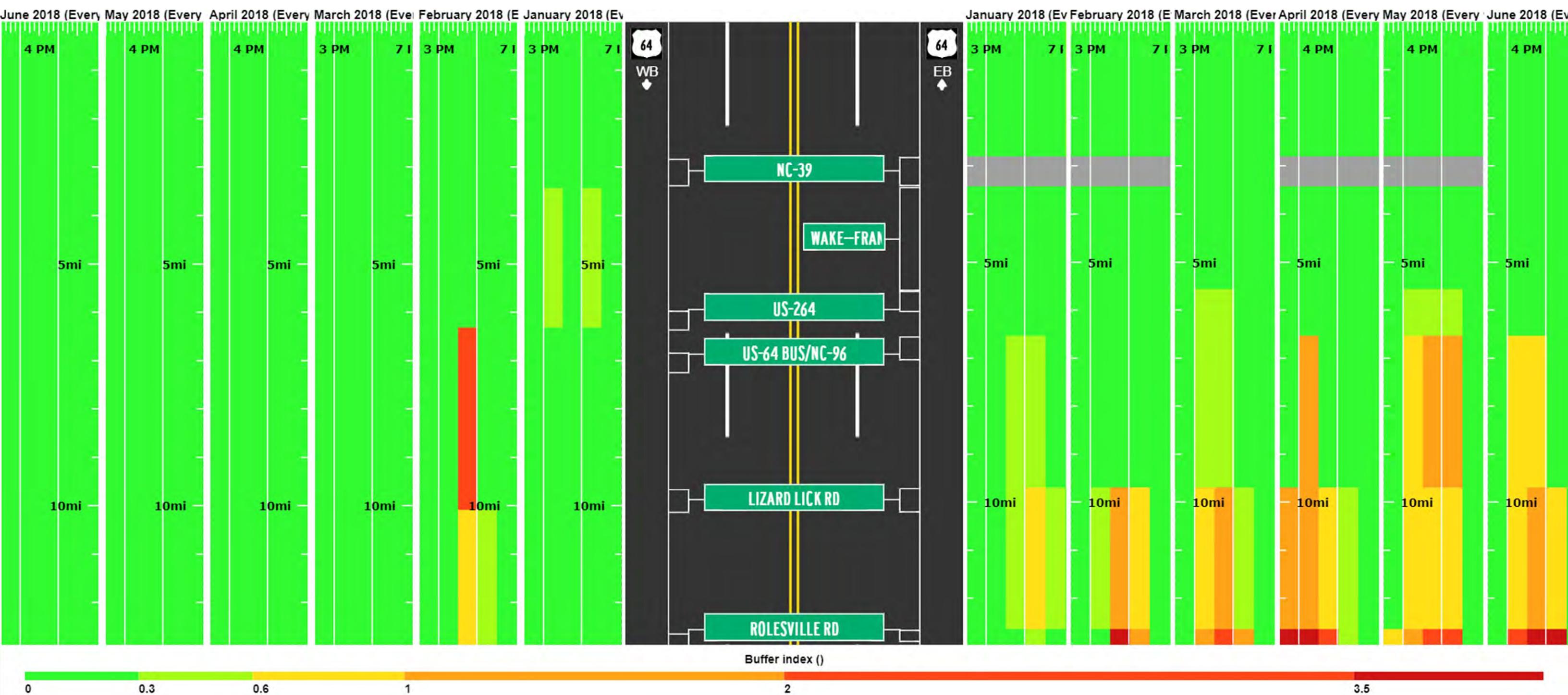
# US-64 (Zebulon) Buffer Index, AM Peak in Jul-Dec 2018

Buffer index for US-64 using HERE data



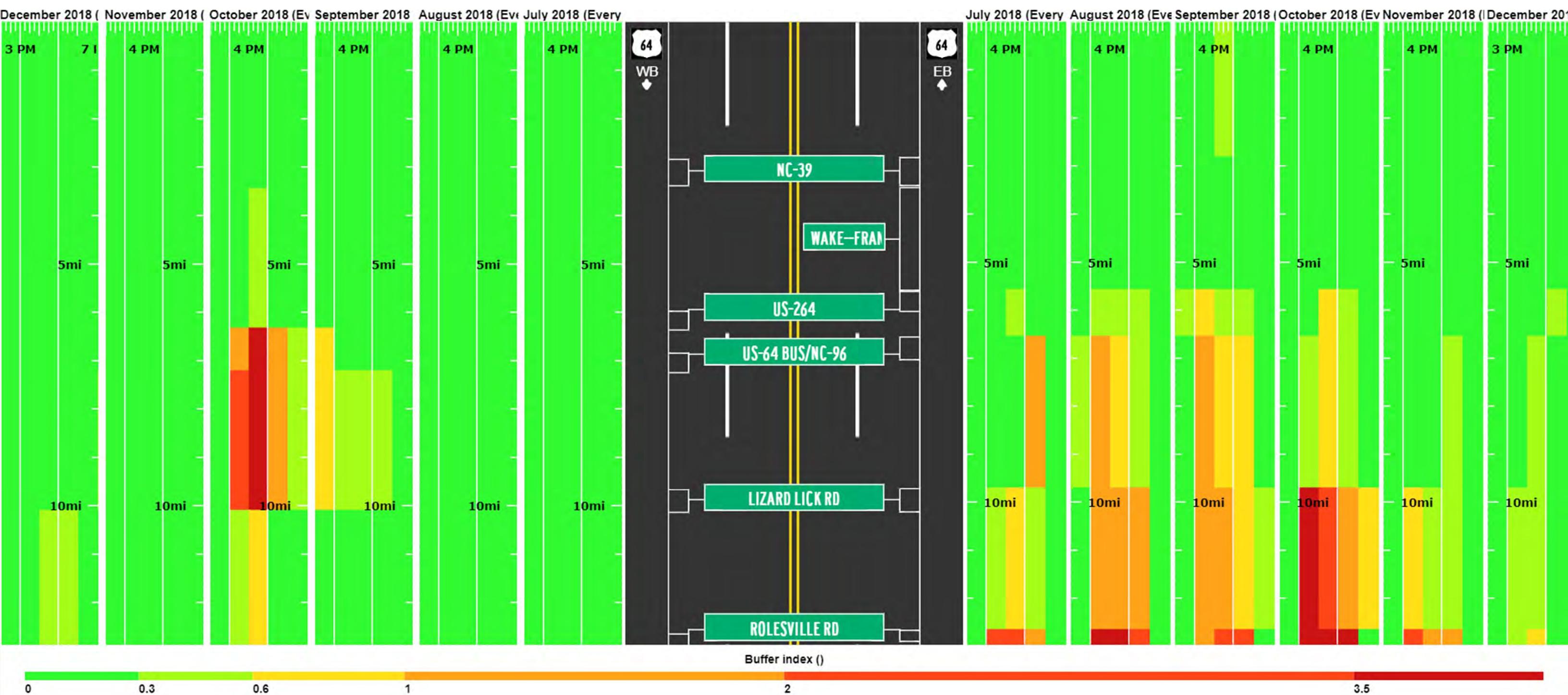
# US-64 (Zebulon) Buffer Index, PM Peak in Jan-Jun 2018

Buffer index for US-64 using HERE data



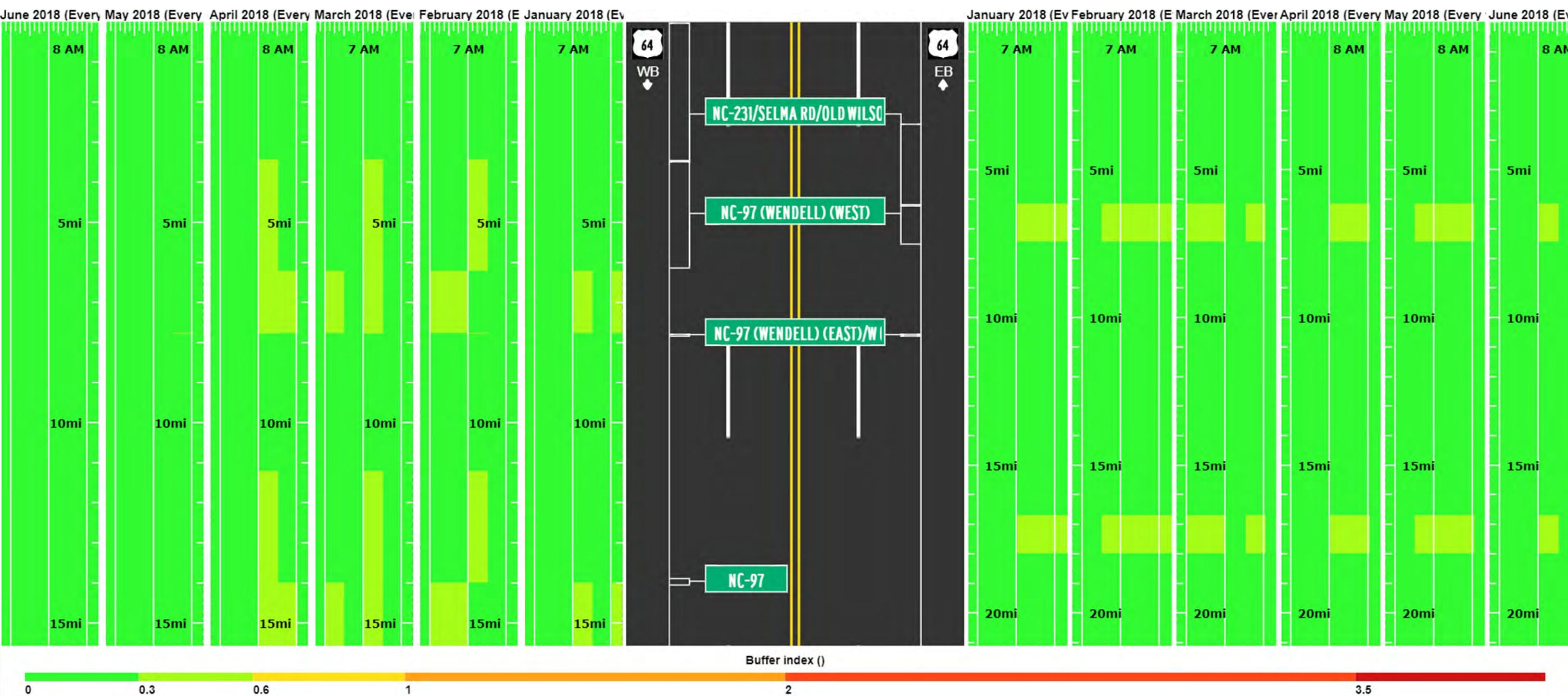
# US-64 (Zebulon) Buffer Index, PM Peak in Jul-Dec 2018

Buffer index for US-64 using HERE data



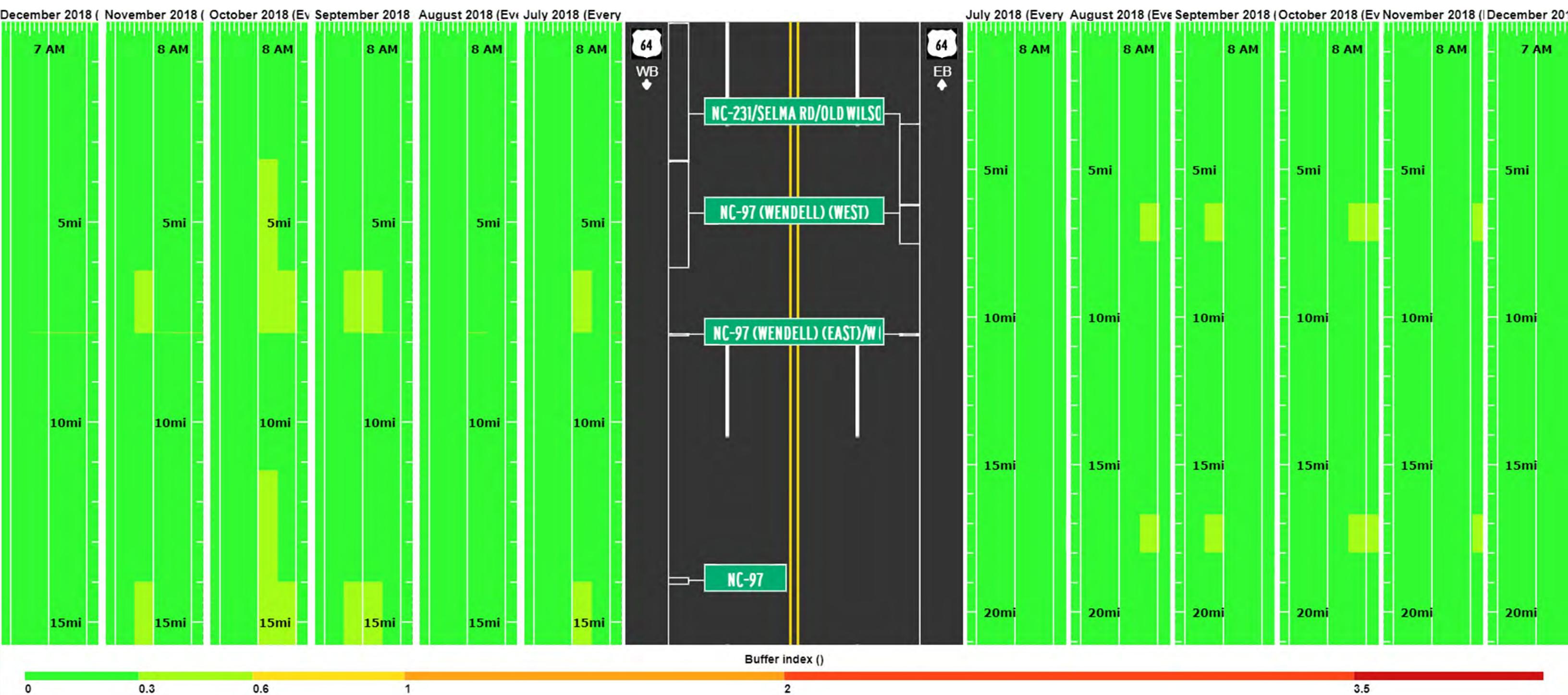
# US-64 (Bus) Buffer Index, AM Peak in Jan-Jun 2018

Buffer index for US-64-BR and US-64-BR using HERE data



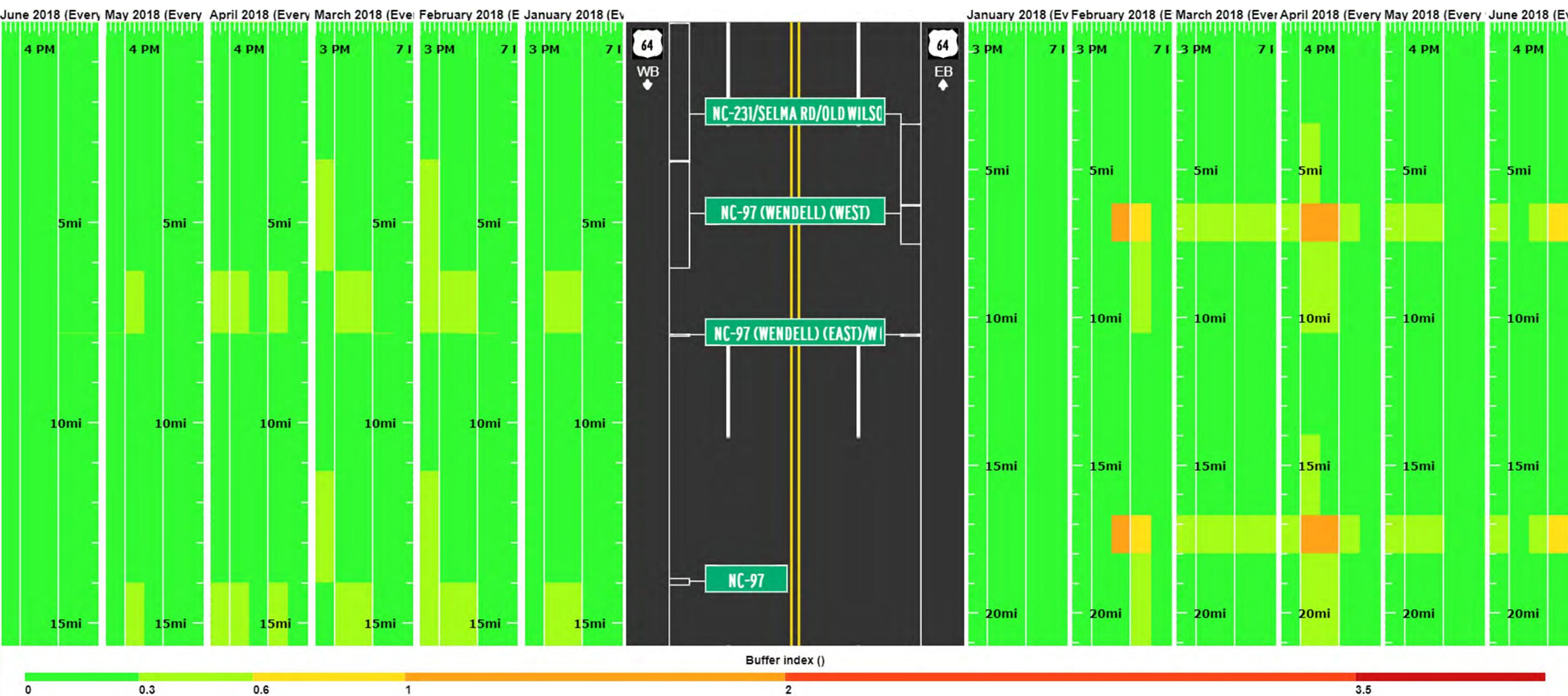
# US-64 (Bus) Buffer Index, AM Peak in Jul-Dec 2018

Buffer index for US-64-BR and US-64-BR using HERE data



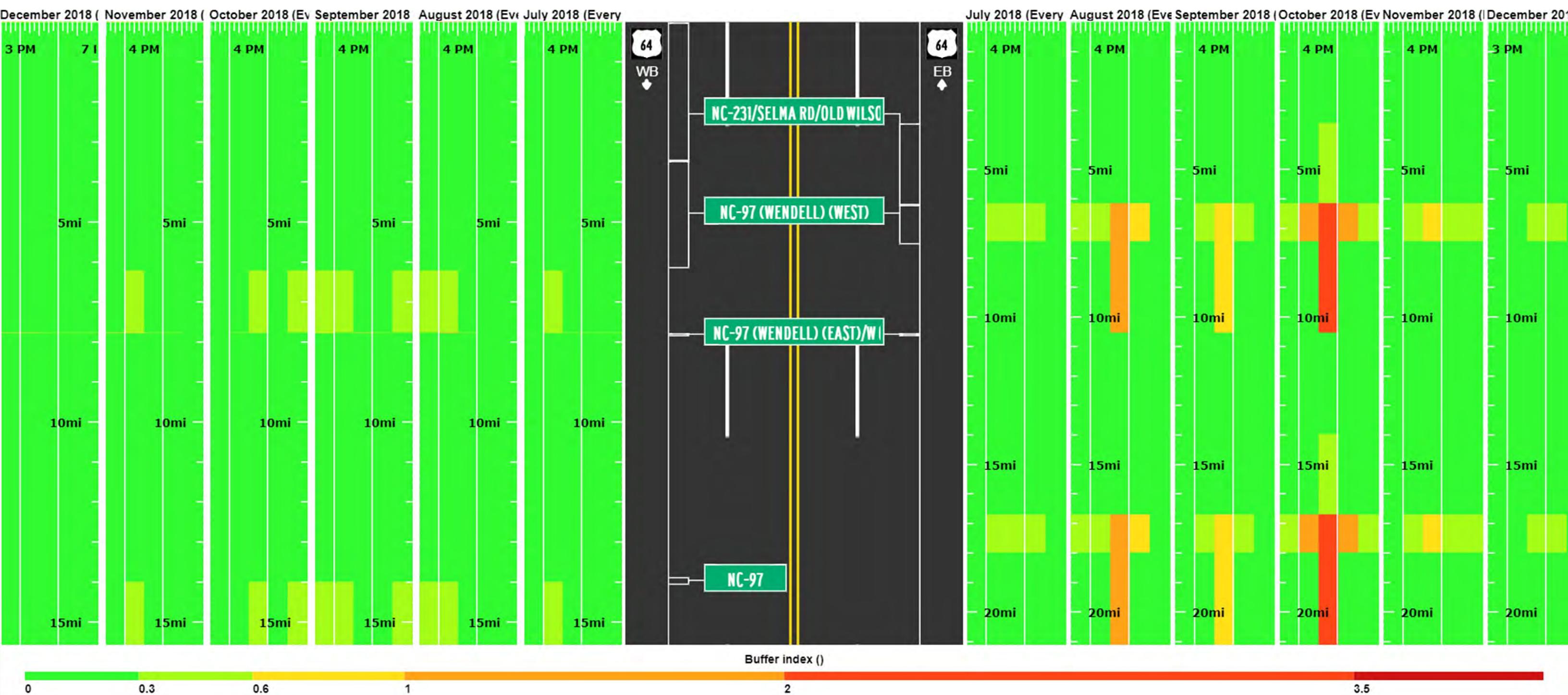
# US-64 (Bus) Buffer Index, PM Peak in Jan-Jun 2018

Buffer index for US-64-BR and US-64-BR using HERE data



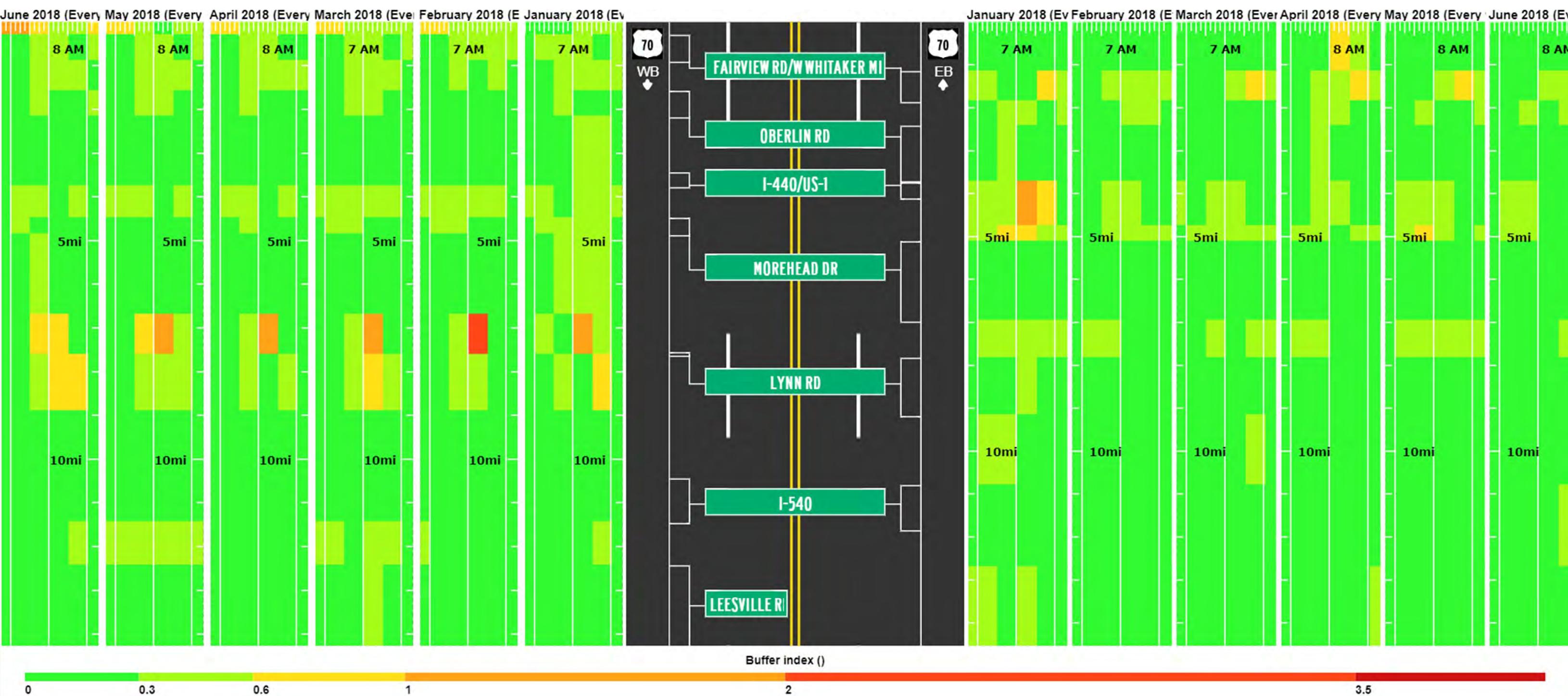
# US-64 (Bus) Buffer Index, PM Peak in Jul-Dec 2018

Buffer index for US-64-BR and US-64-BR using HERE data



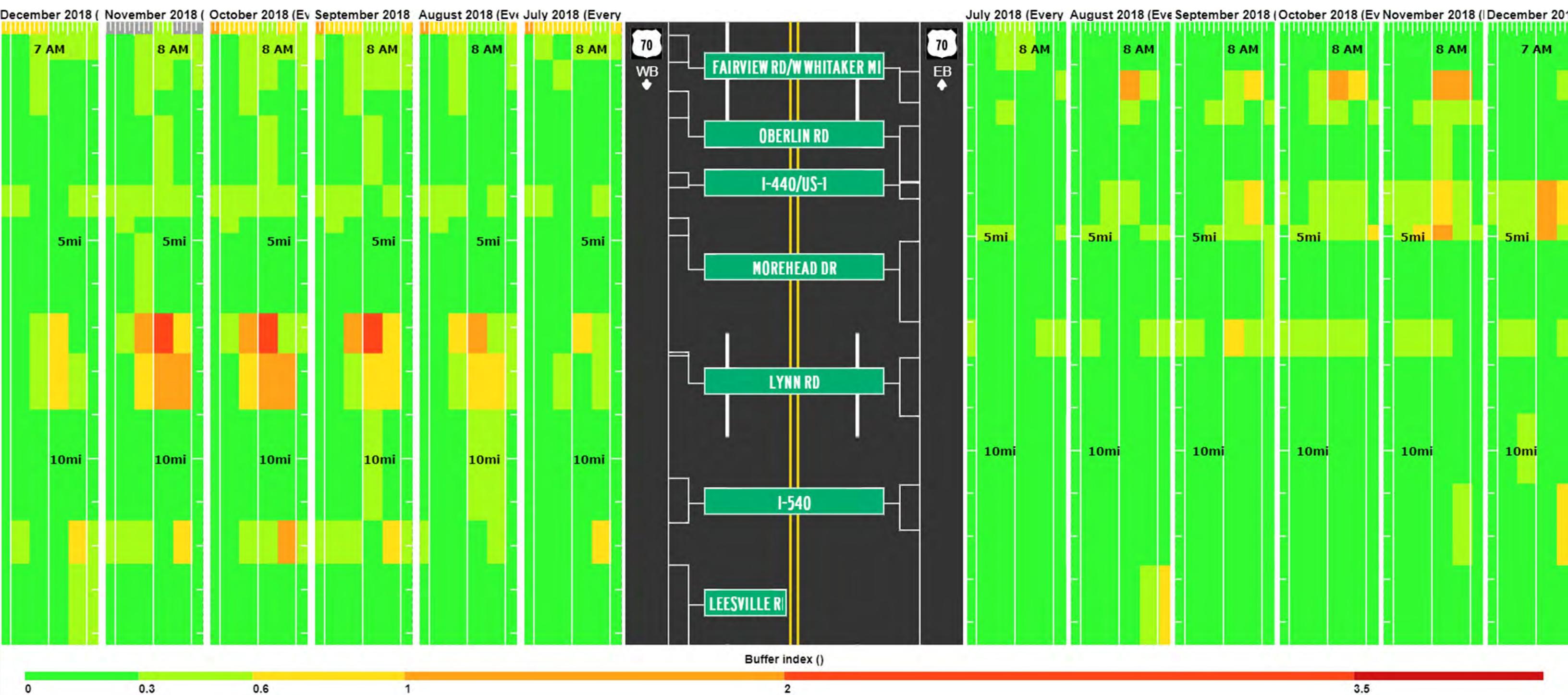
# US-70 (Raleigh) Buffer Index, AM Peak in Jan-Jun 2018

Buffer index for US-70 using HERE data



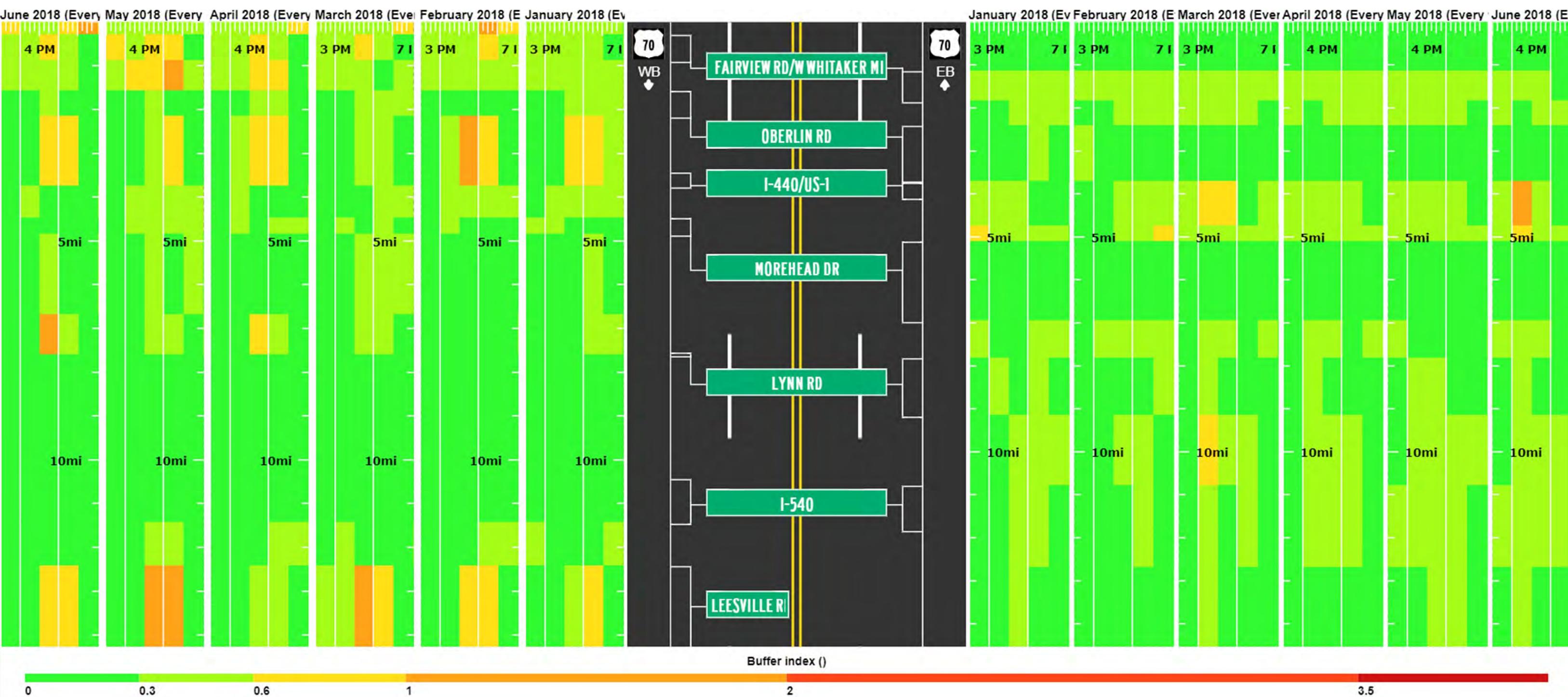
# US-70 (Raleigh) Buffer Index, AM Peak in Jul-Dec 2018

Buffer index for US-70 using HERE data



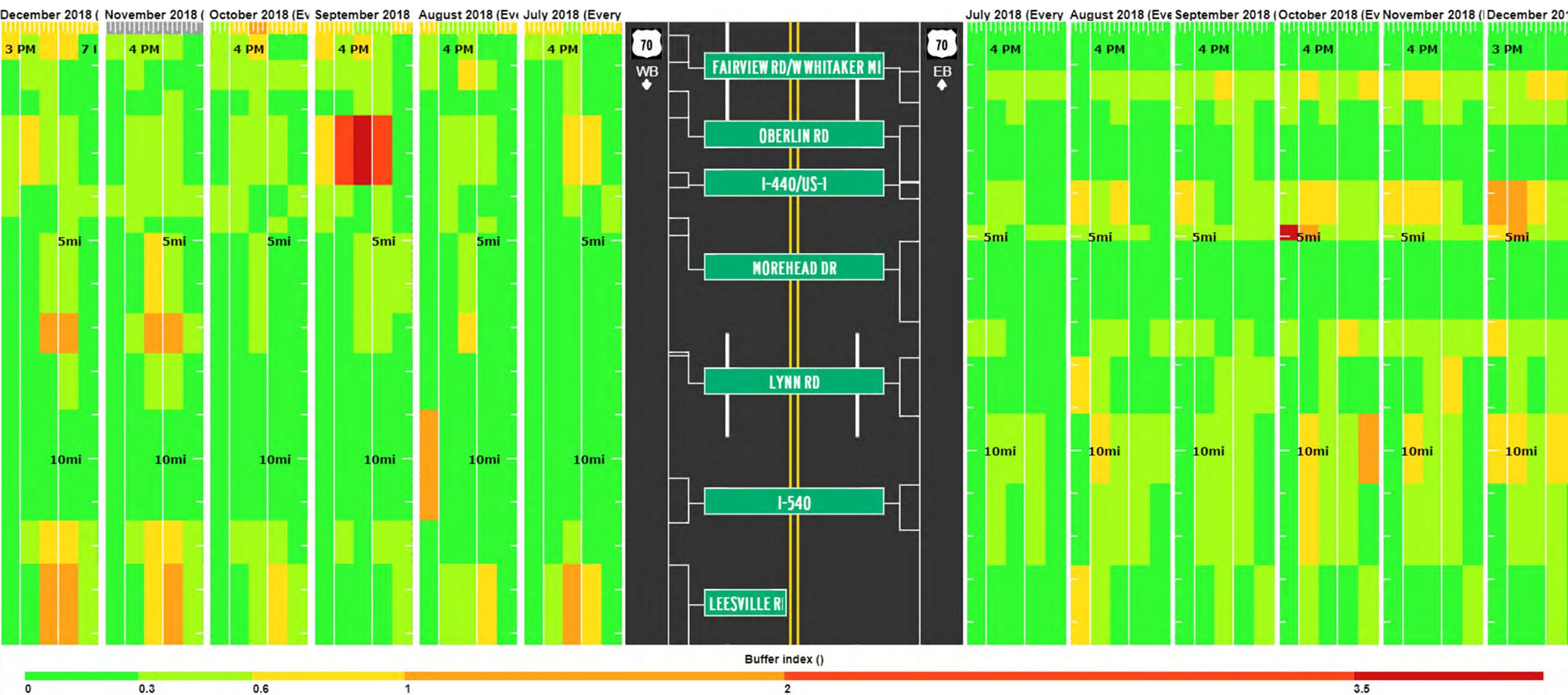
# US-70 (Raleigh) Buffer Index, PM Peak in Jan-Jun 2018

## Buffer index for US-70 using HERE data



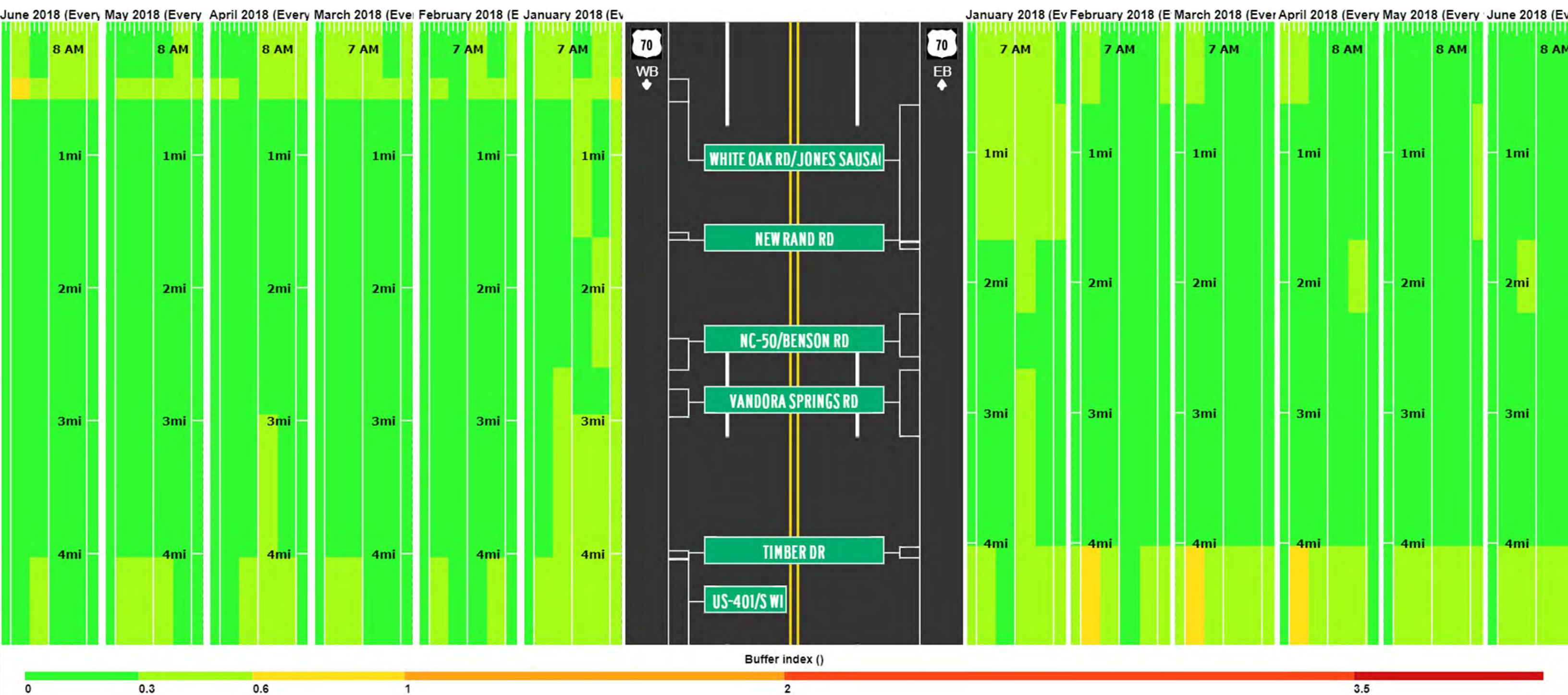
# US-70 (Raleigh) Buffer Index, PM Peak in Jul-Dec 2018

Buffer index for US-70 using HERE data



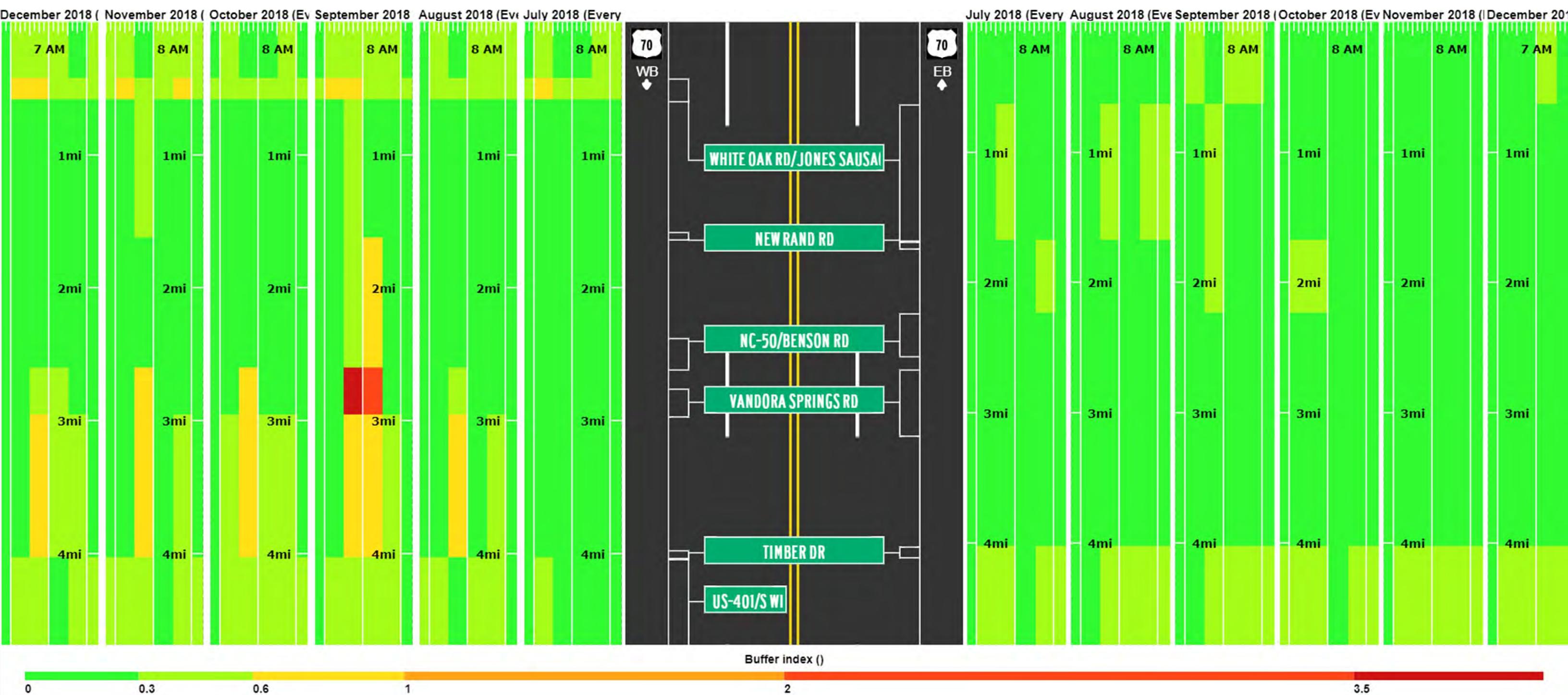
# US-70 (Garner) Buffer Index, AM Peak in Jan-Jun 2018

Buffer index for US-70 using HERE data



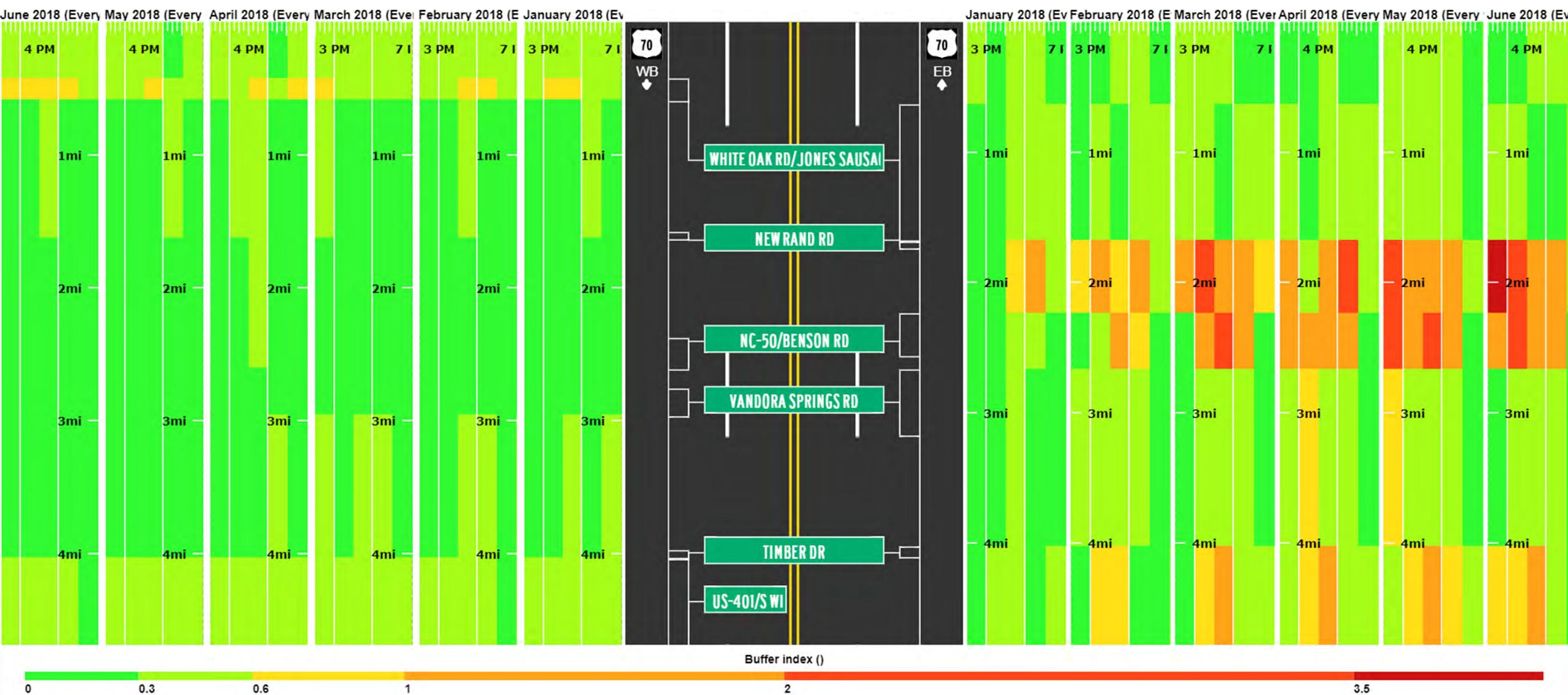
# US-70 (Garner) Buffer Index, AM Peak in Jul-Dec 2018

Buffer index for US-70 using HERE data



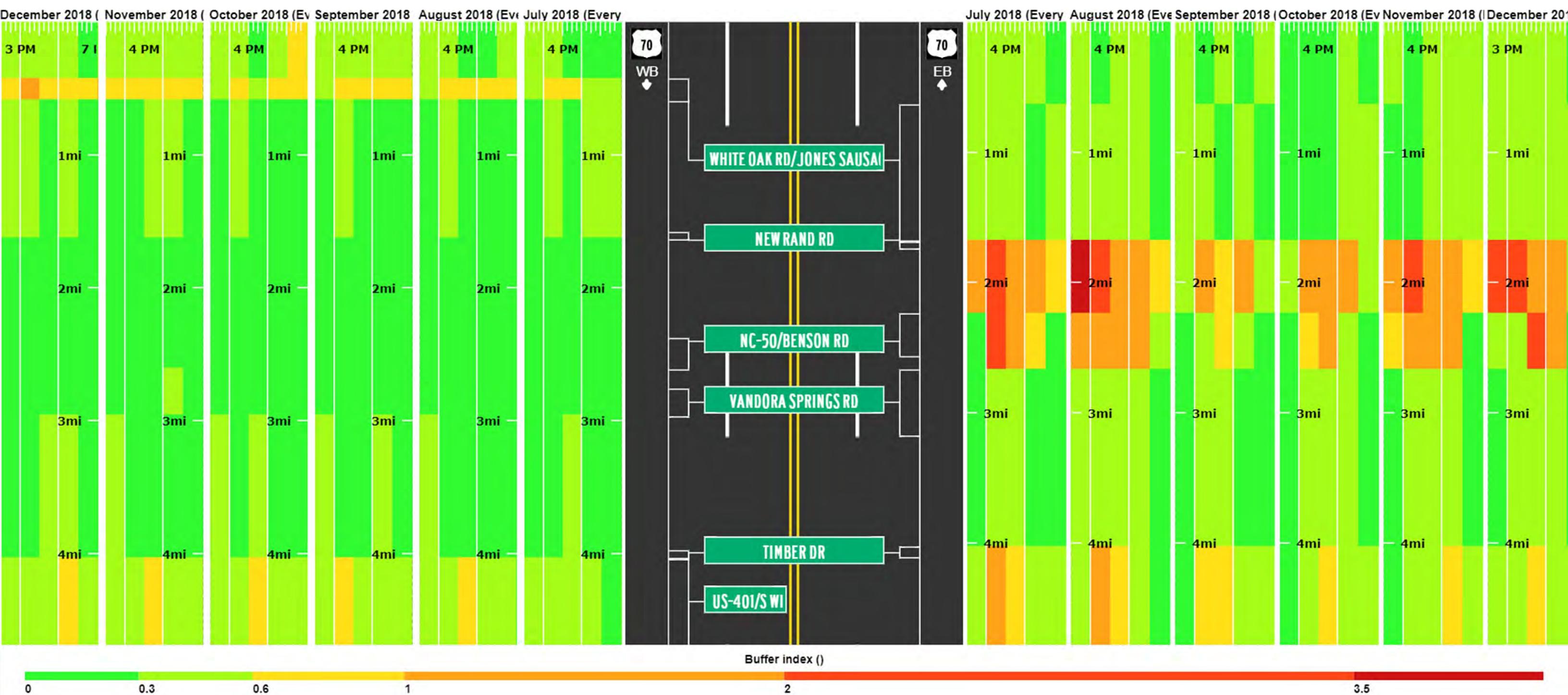
# US-70 (Garner) Buffer Index, PM Peak in Jan-Jun 2018

Buffer index for US-70 using HERE data



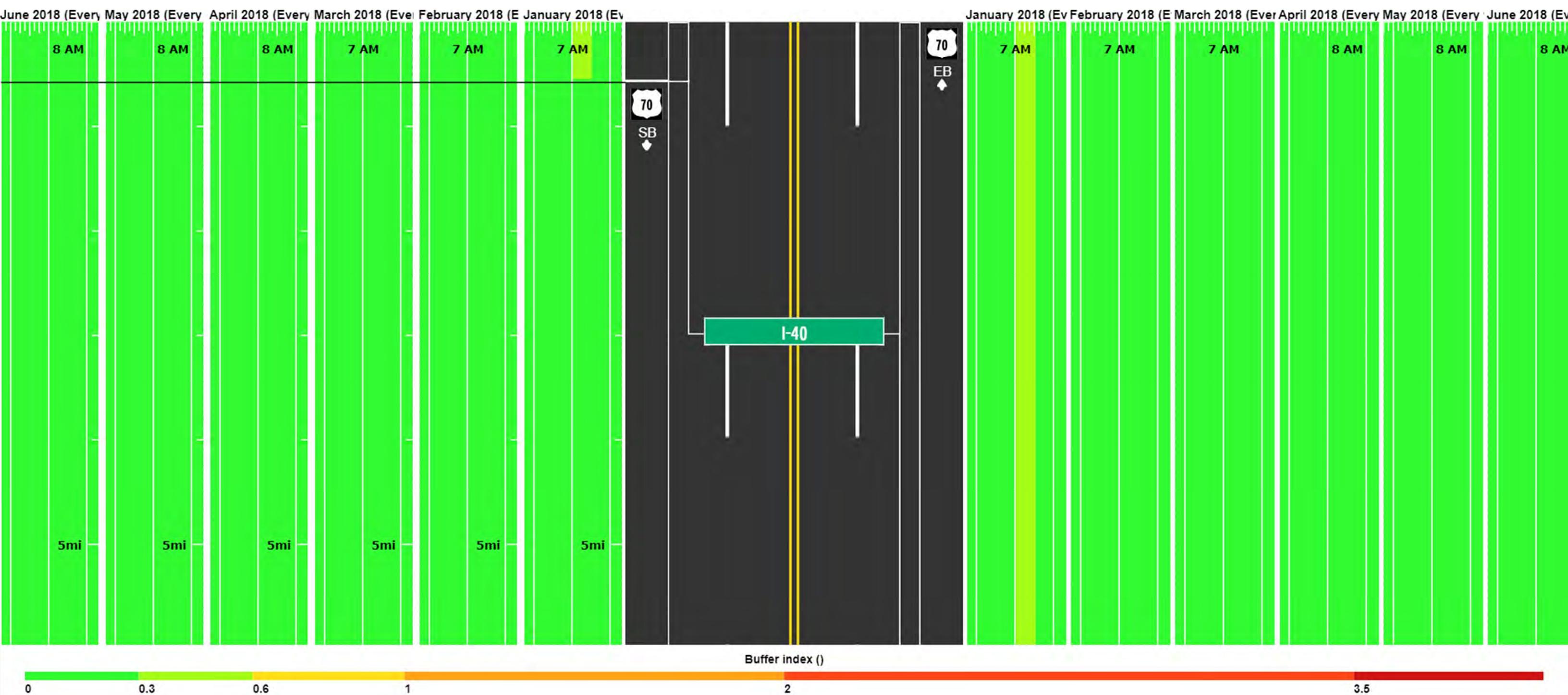
# US-70 (Garner) Buffer Index, PM Peak in Jul-Dec 2018

Buffer index for US-70 using HERE data



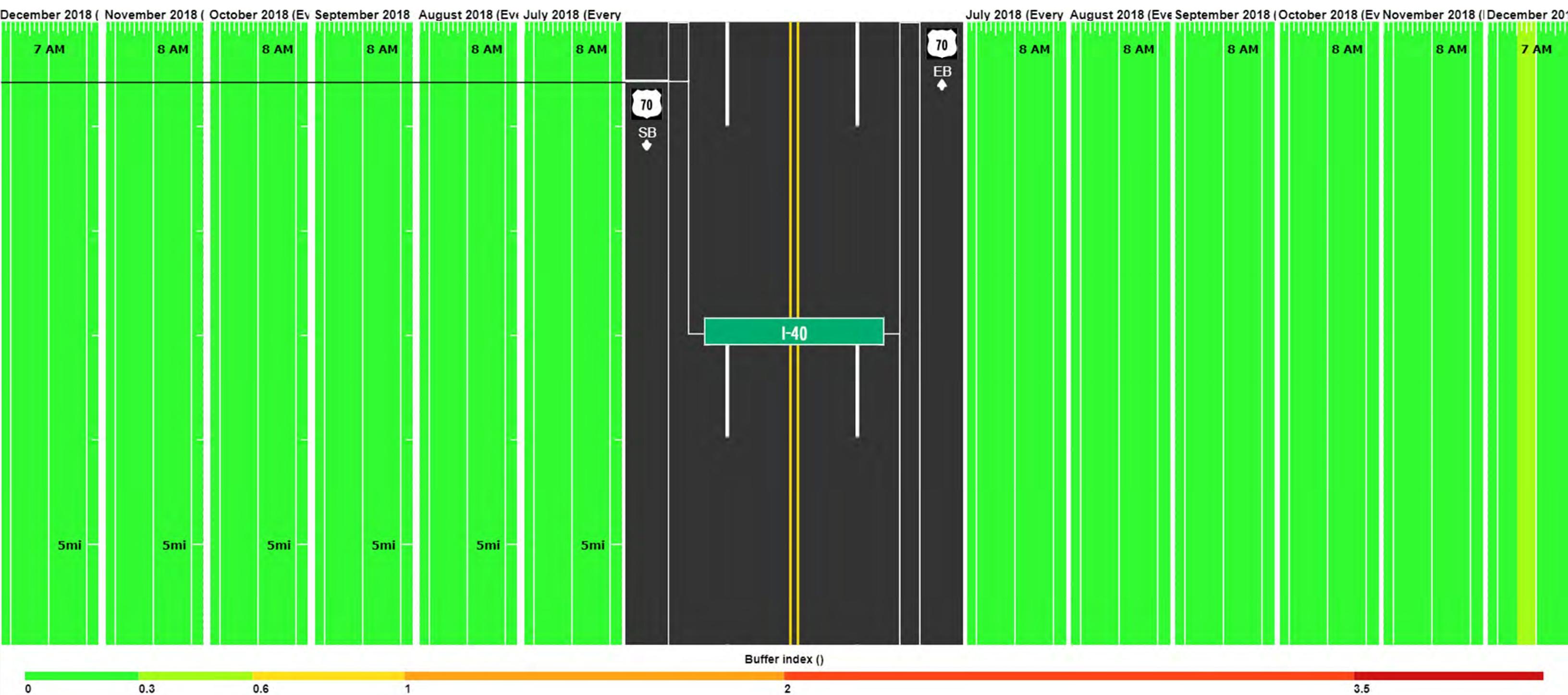
# US-70 (Bus) Buffer Index, AM Peak in Jan-Jun 2018

Buffer index for US-70, US-70-BR, and US-70-BR using HERE data



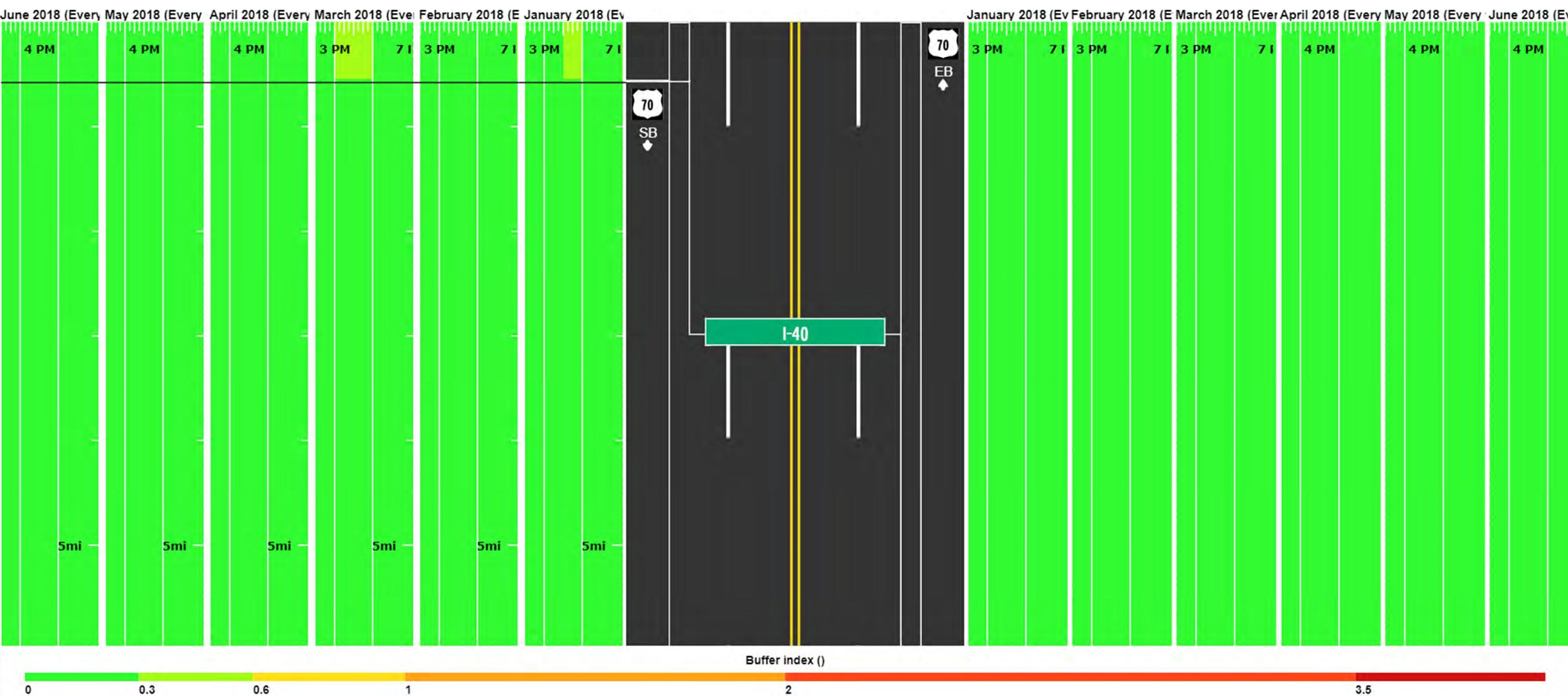
# US-70 (Bus) Buffer Index, AM Peak in Jul-Dec 2018

Buffer index for US-70, US-70-BR, and US-70-BR using HERE data



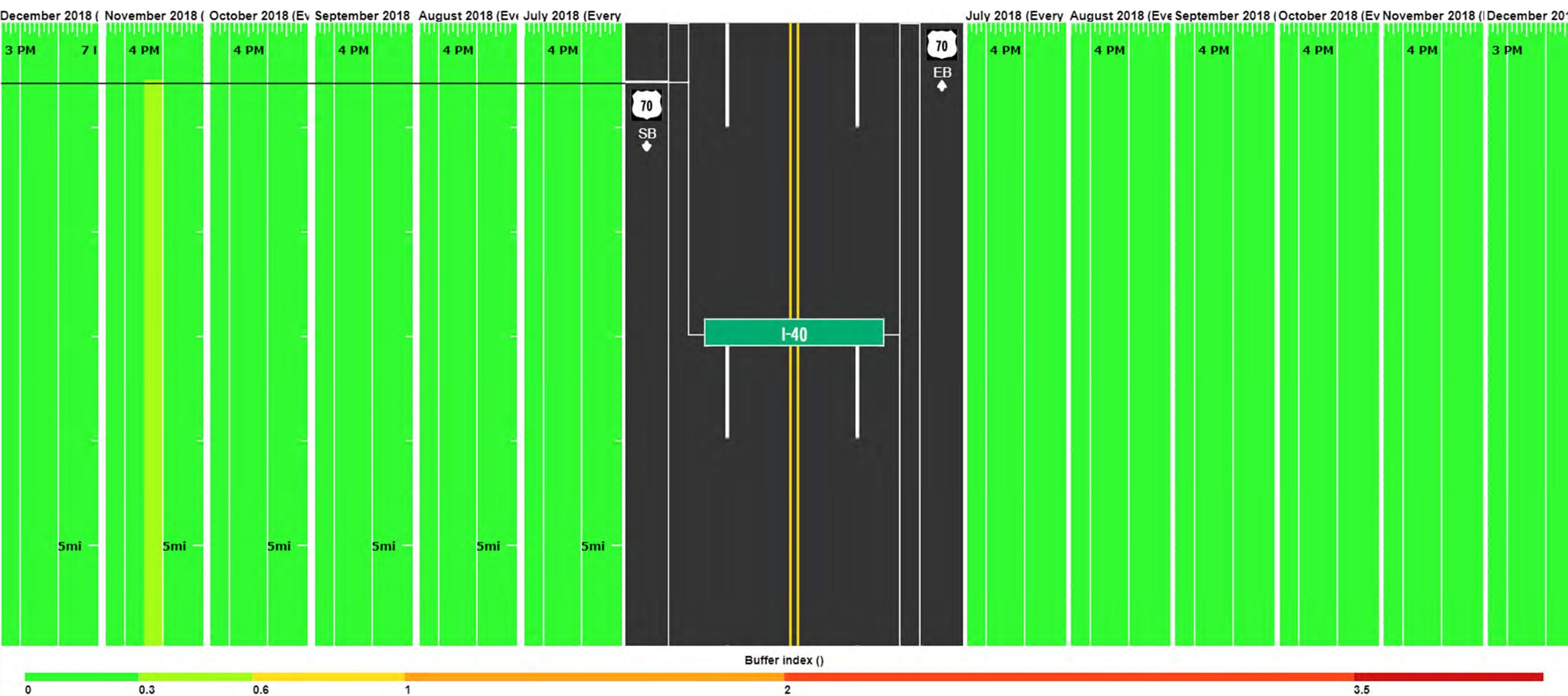
# US-70 (Bus) Buffer Index, PM Peak in Jan-Jun 2018

Buffer index for US-70, US-70-BR, and US-70-BR using HERE data



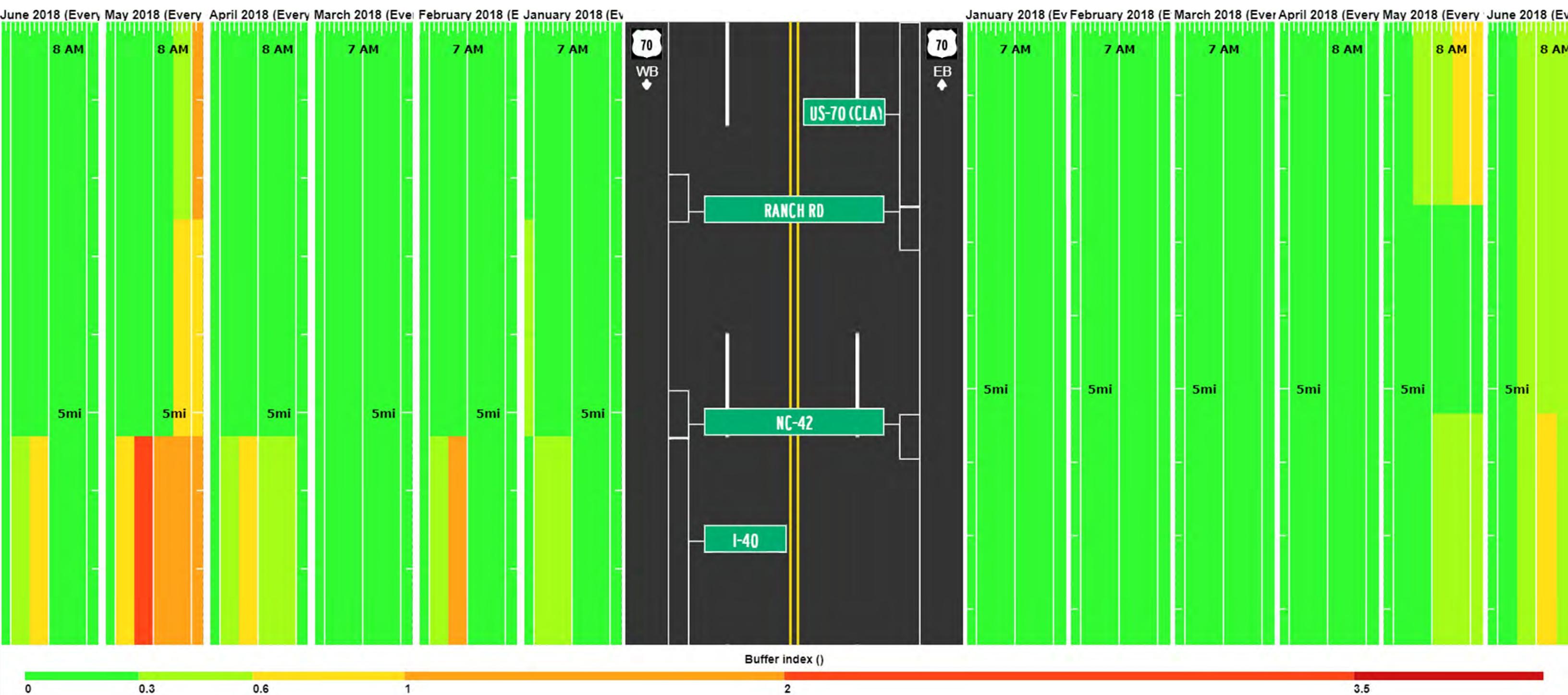
# US-70 (Bus) Buffer Index, PM Peak in Jul-Dec 2018

## Buffer index for US-70, US-70-BR, and US-70-BR using HERE data



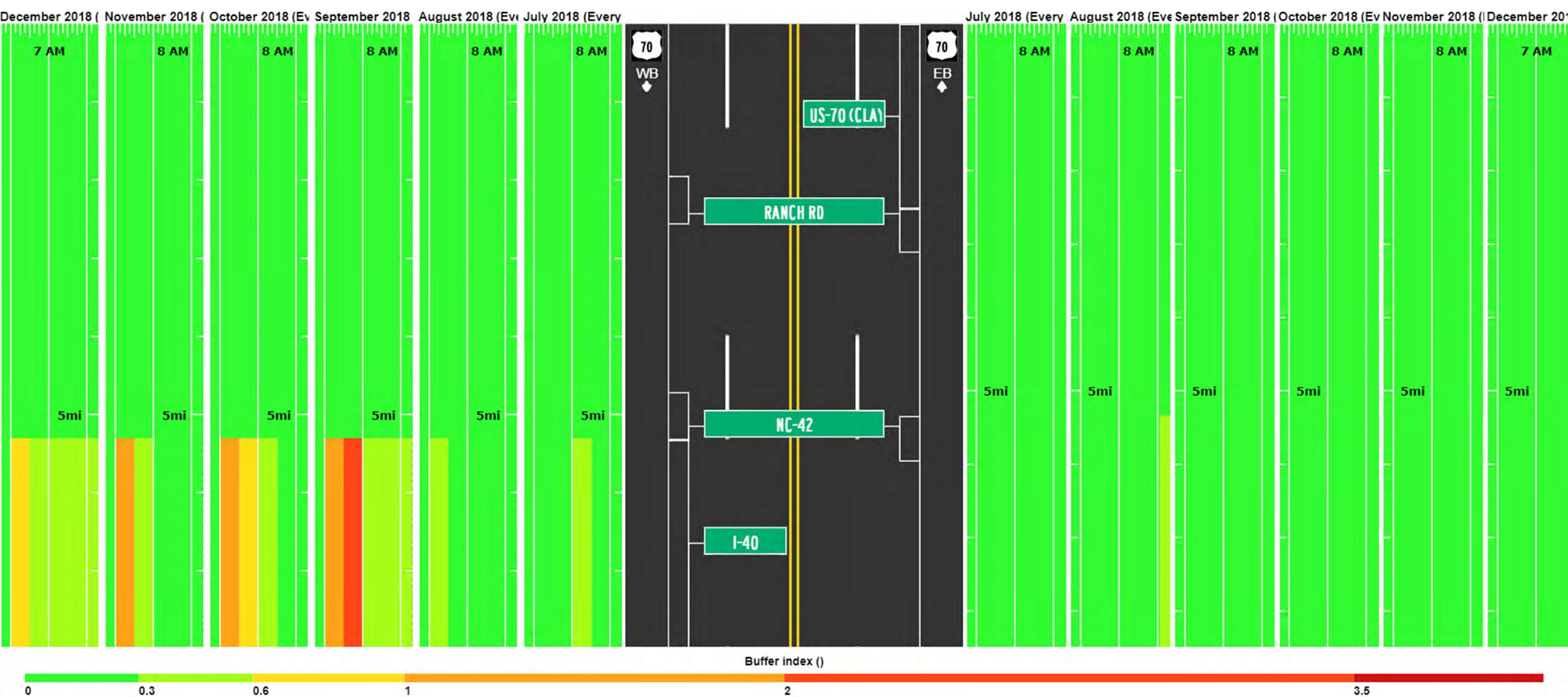
# US-70 (Clayton) Buffer Index, AM Peak in Jan-Jun 2018

Buffer index for US-70 using HERE data



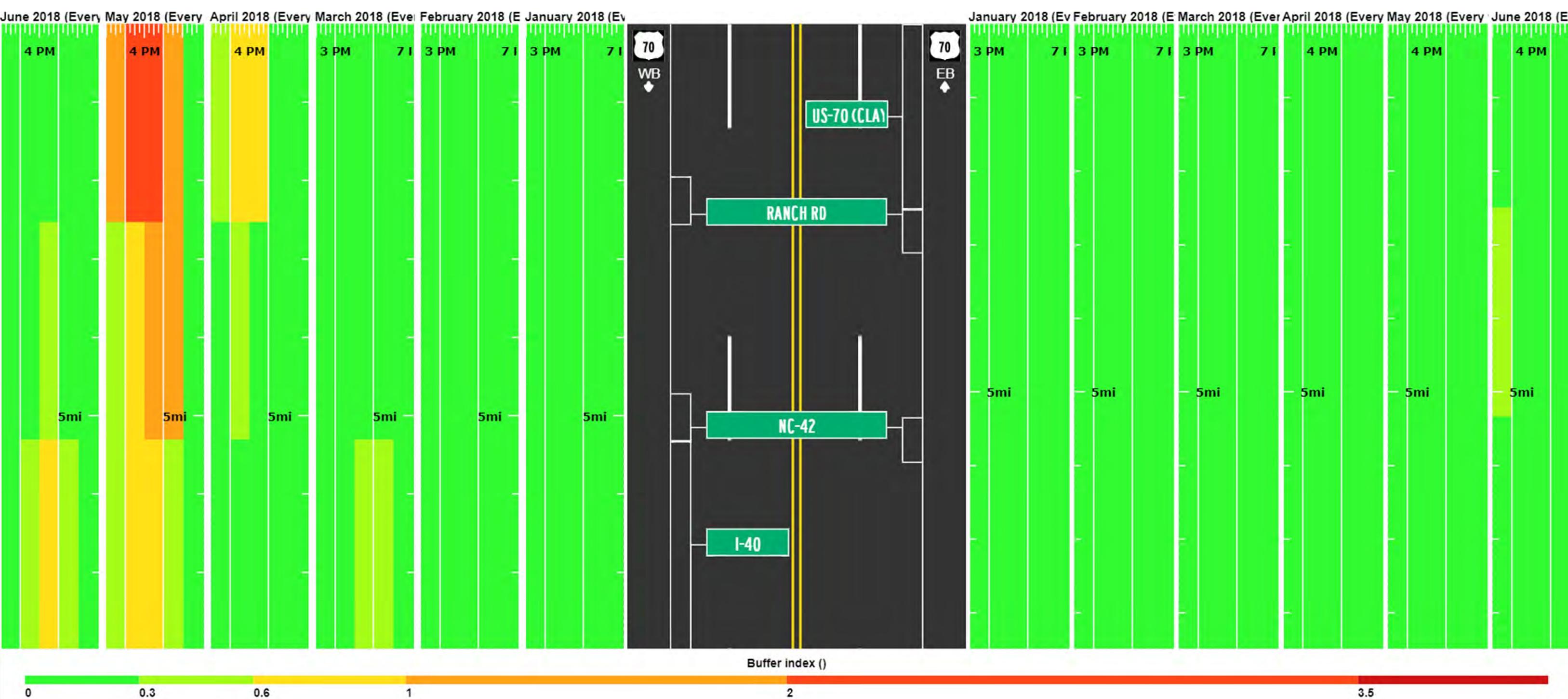
# US-70 (Clayton) Buffer Index, AM Peak in Jul-Dec 2018

Buffer index for US-70 using HERE data



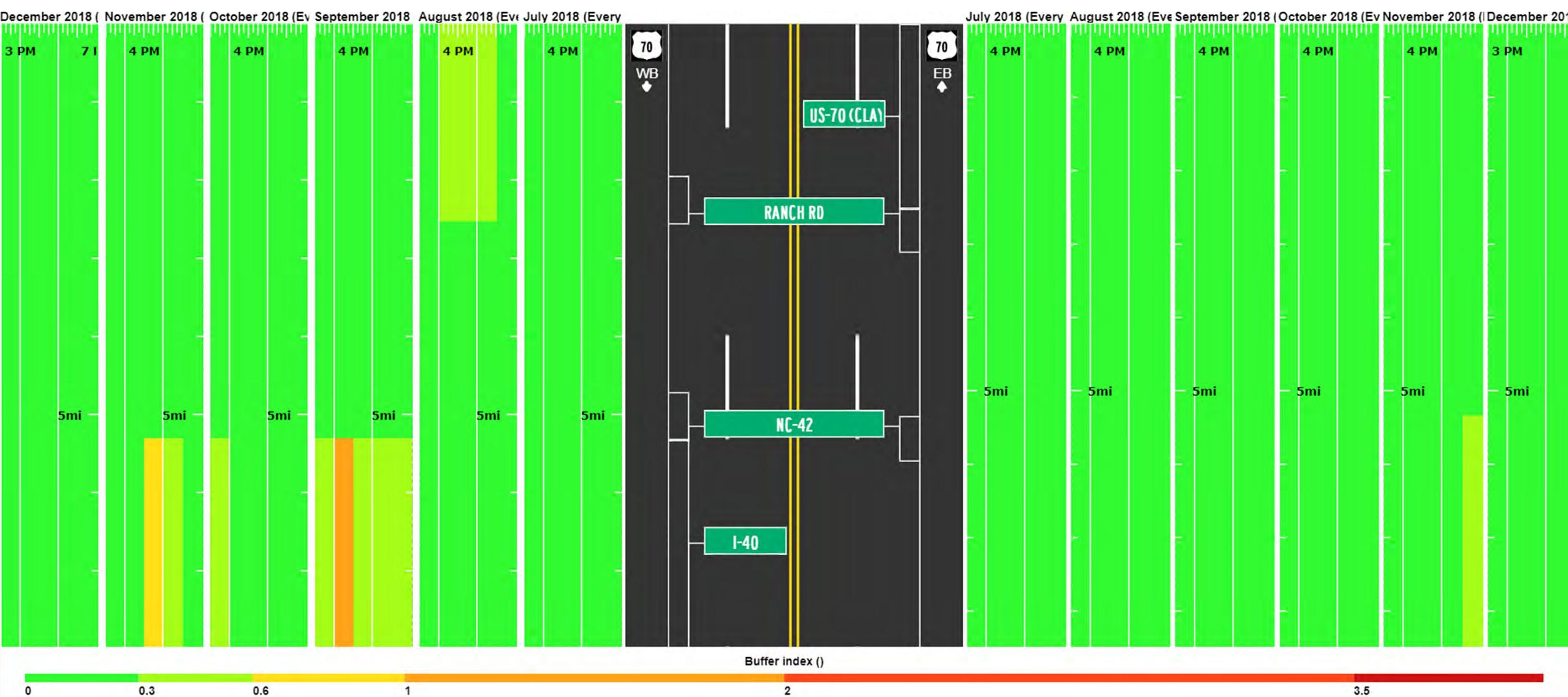
# US-70 (Clayton) Buffer Index, PM Peak in Jan-Jun 2018

## Buffer index for US-70 using HERE data



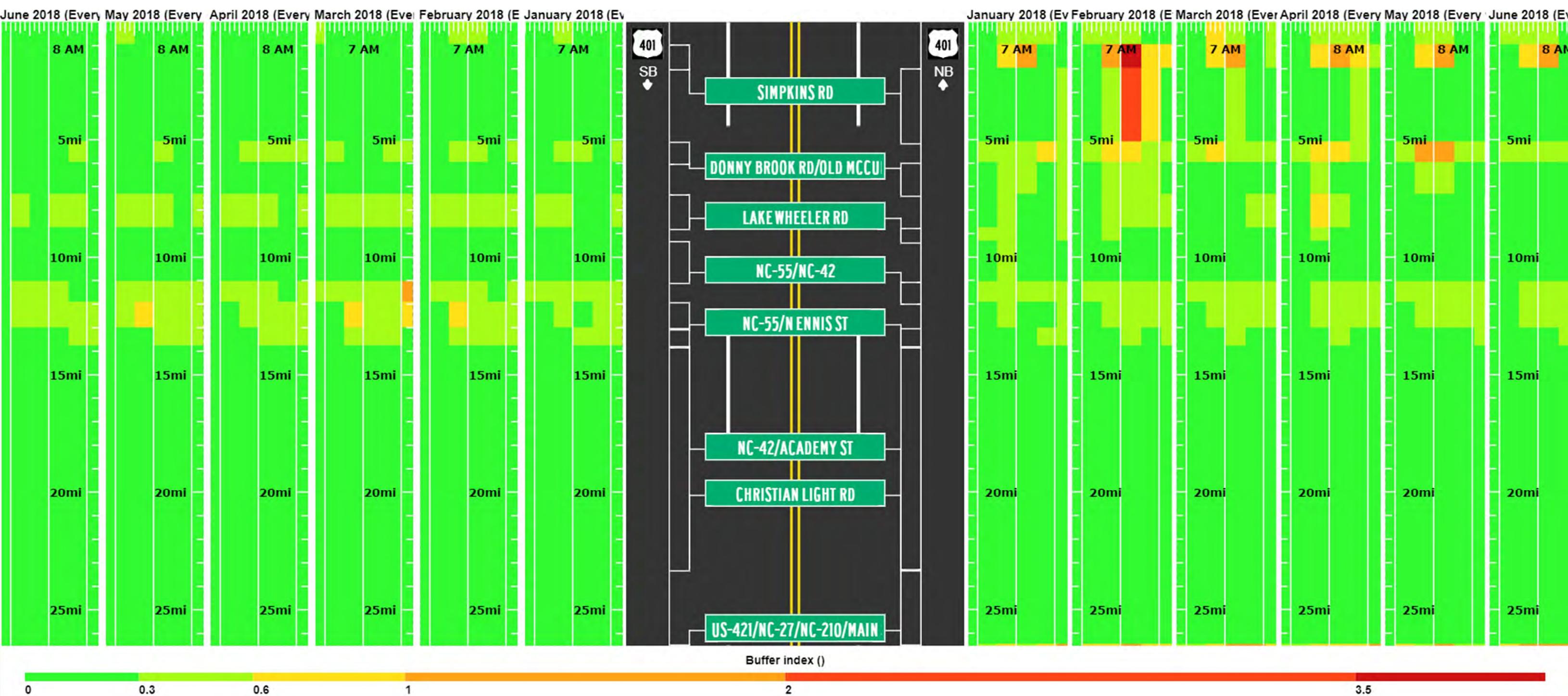
# US-70 (Clayton) Buffer Index, PM Peak in Jul-Dec 2018

Buffer index for US-70 using HERE data



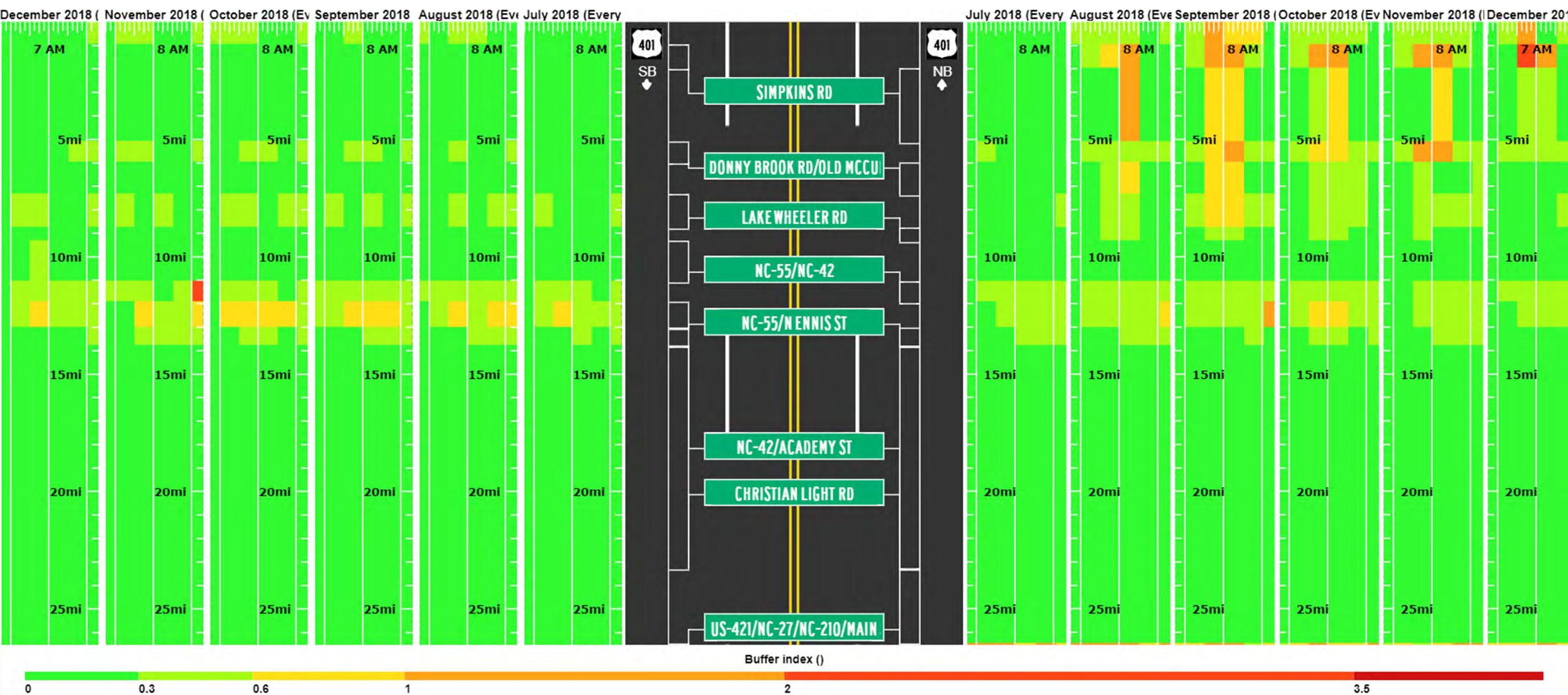
# US-401 (Fuquay) Buffer Index, AM Peak in Jan-Jun 2018

Buffer index for US-401 using HERE data



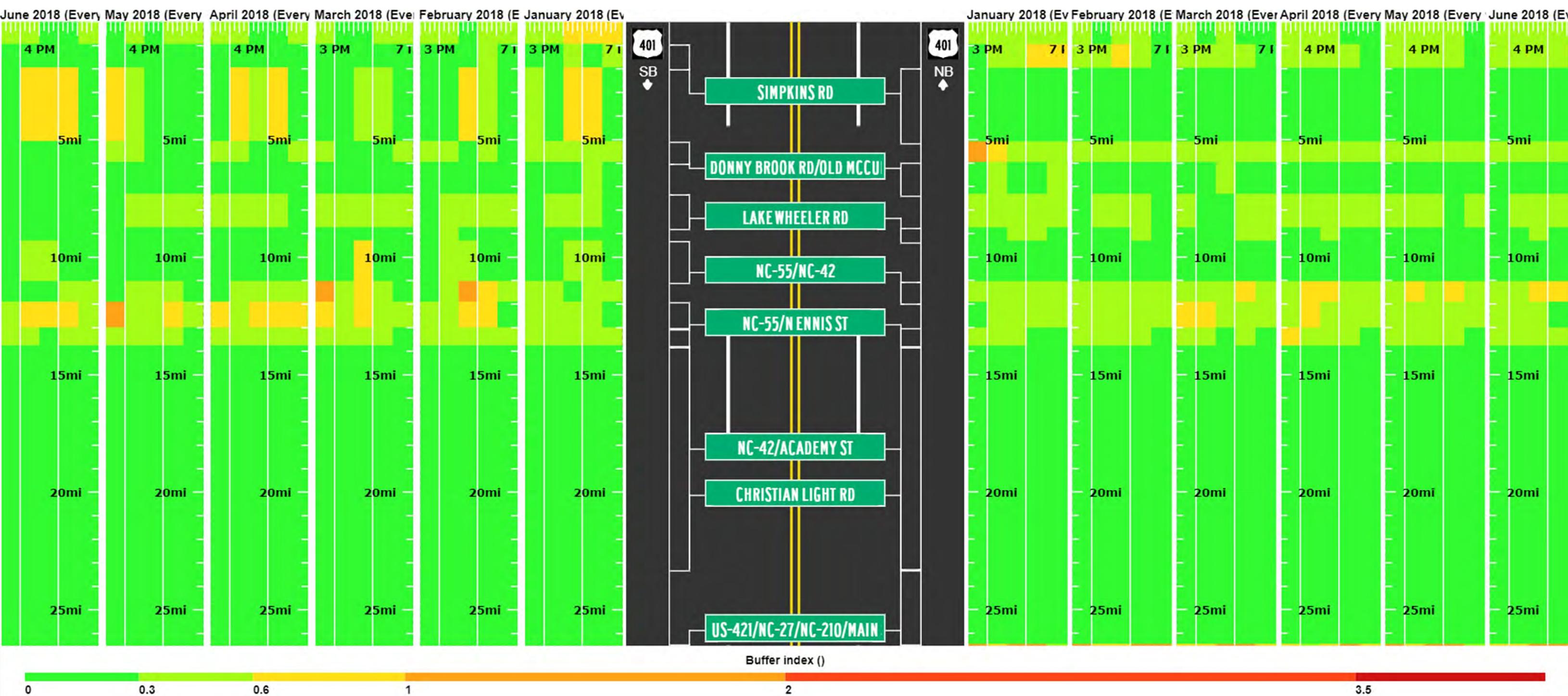
# US-401 (Fuquay) Buffer Index, AM Peak in Jul-Dec 2018

Buffer index for US-401 using HERE data



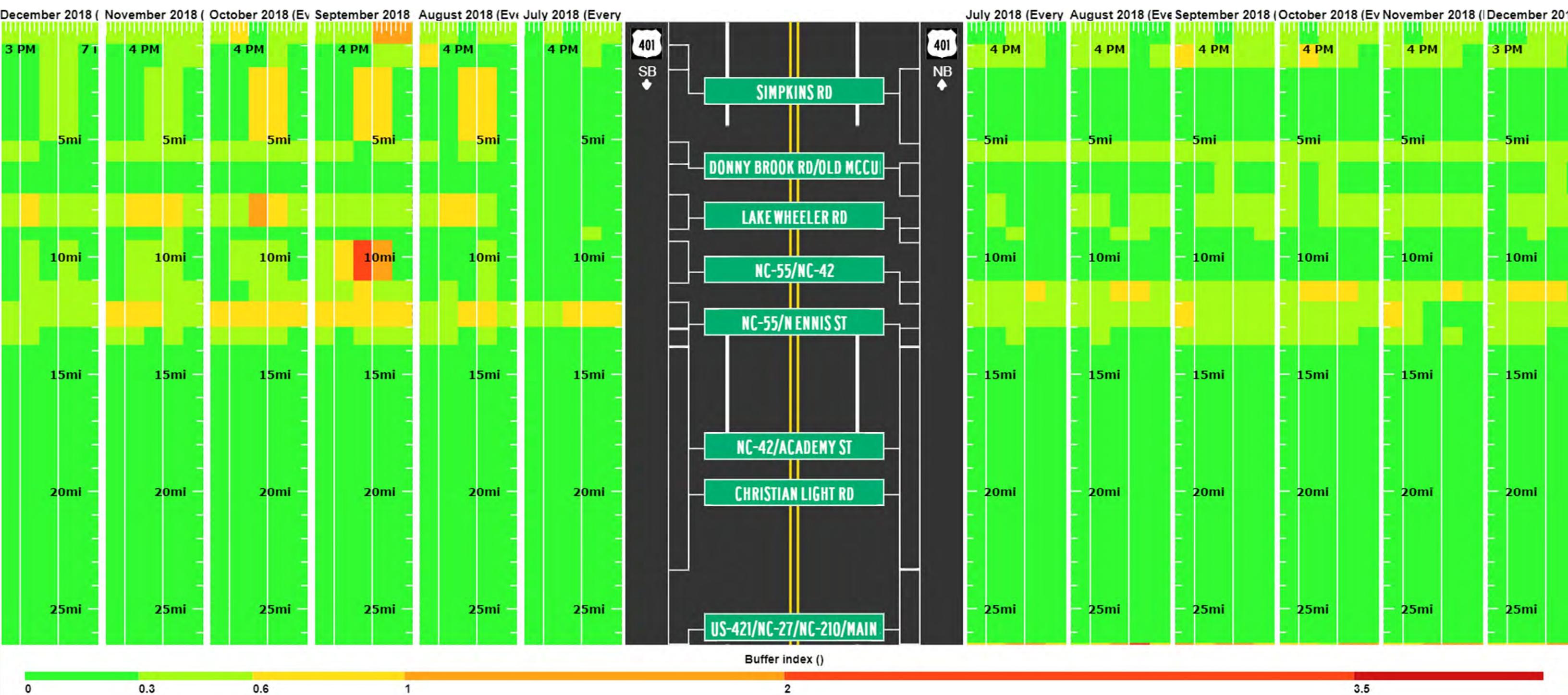
# US-401 (Fuquay) Buffer Index, PM Peak in Jan-Jun 2018

Buffer index for US-401 using HERE data



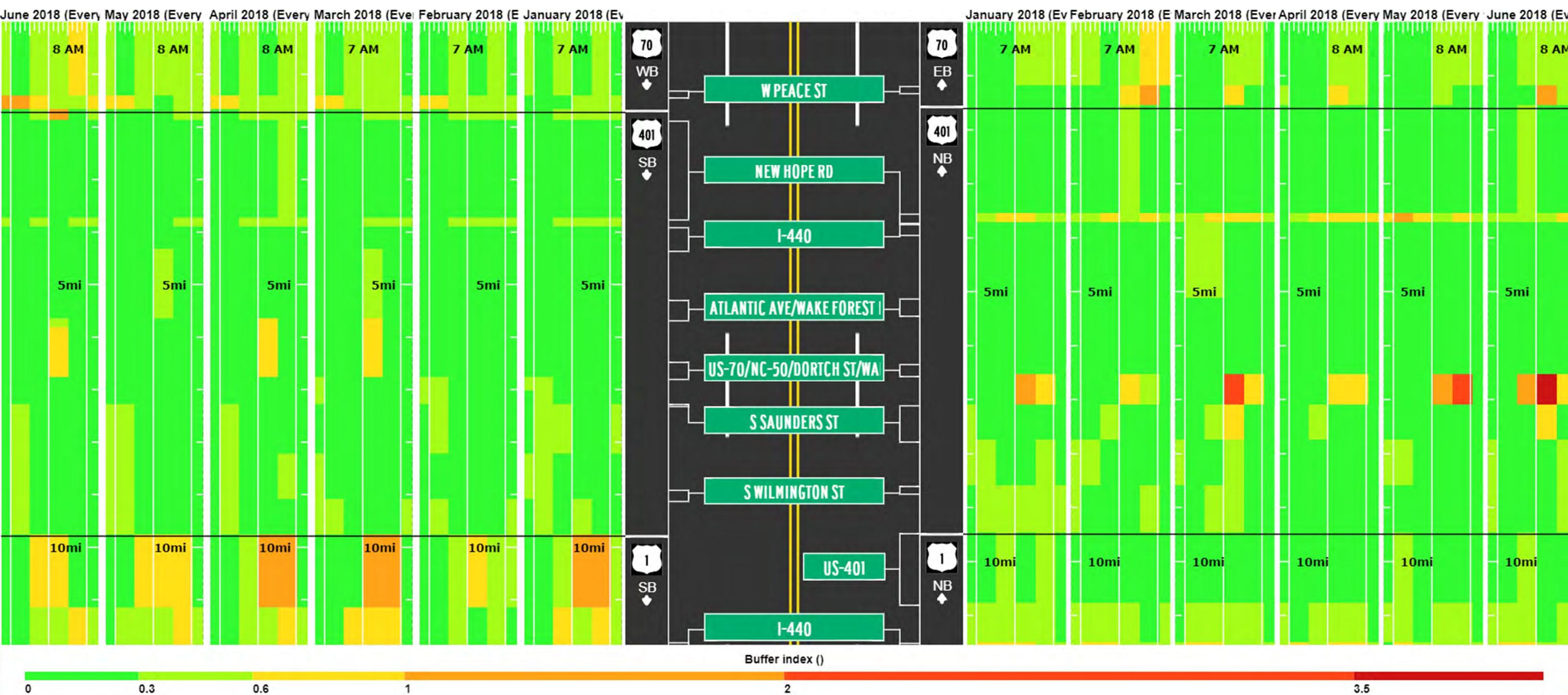
# US-401 (Fuquay) Buffer Index, PM Peak in Jul-Dec 2018

Buffer index for US-401 using HERE data



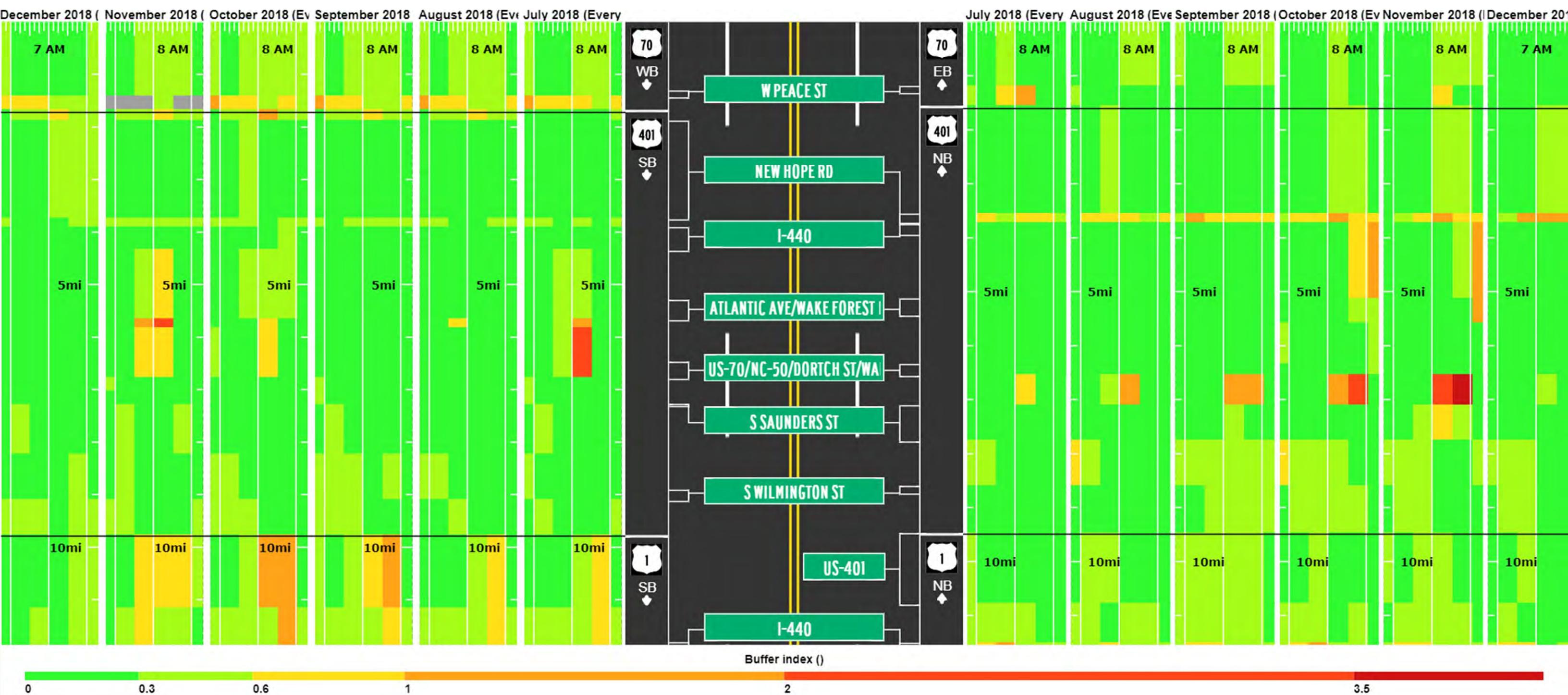
# US-401 (Raleigh) Buffer Index, AM Peak in Jan-Jun 2018

Buffer index for US-70, US-401, and US-1 using HERE data



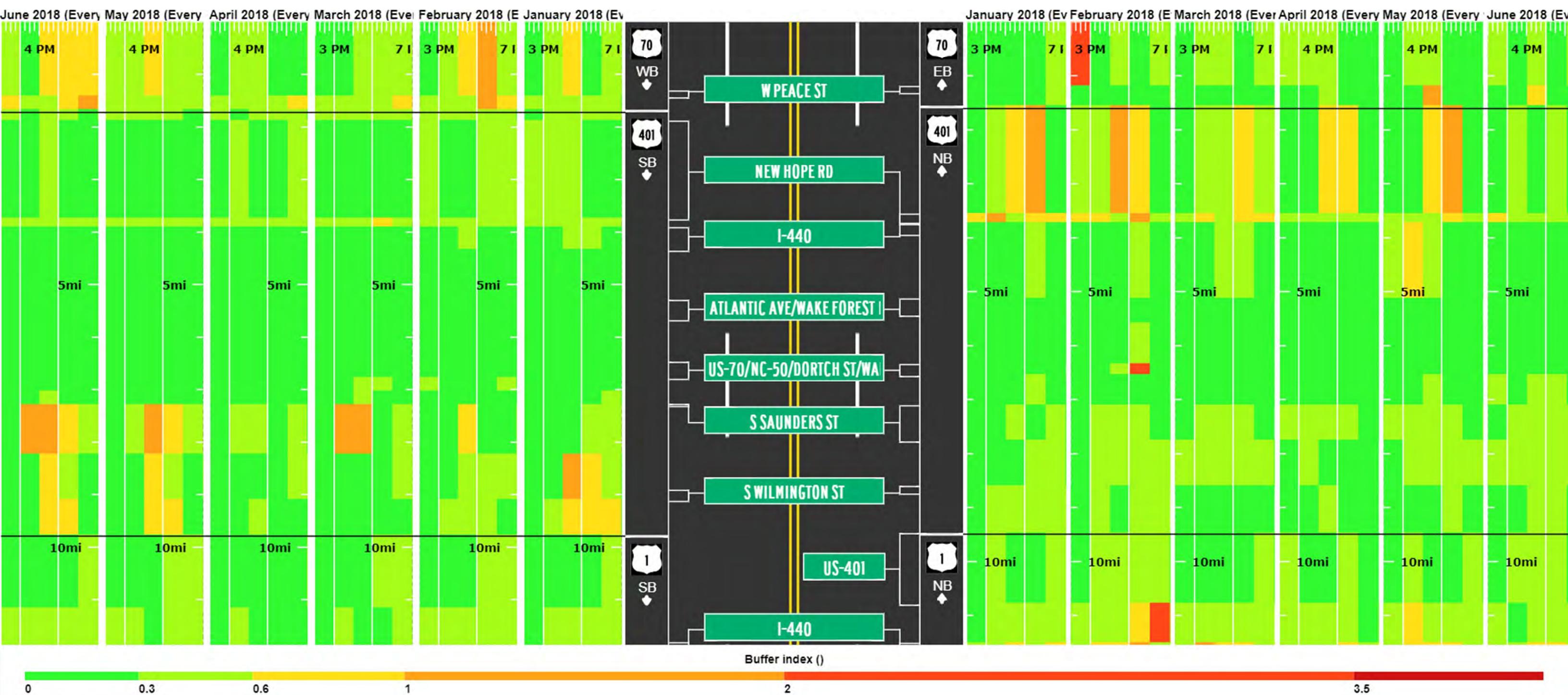
# US-401 (Raleigh) Buffer Index, AM Peak in Jul-Dec 2018

Buffer index for US-70, US-401, and US-1 using HERE data



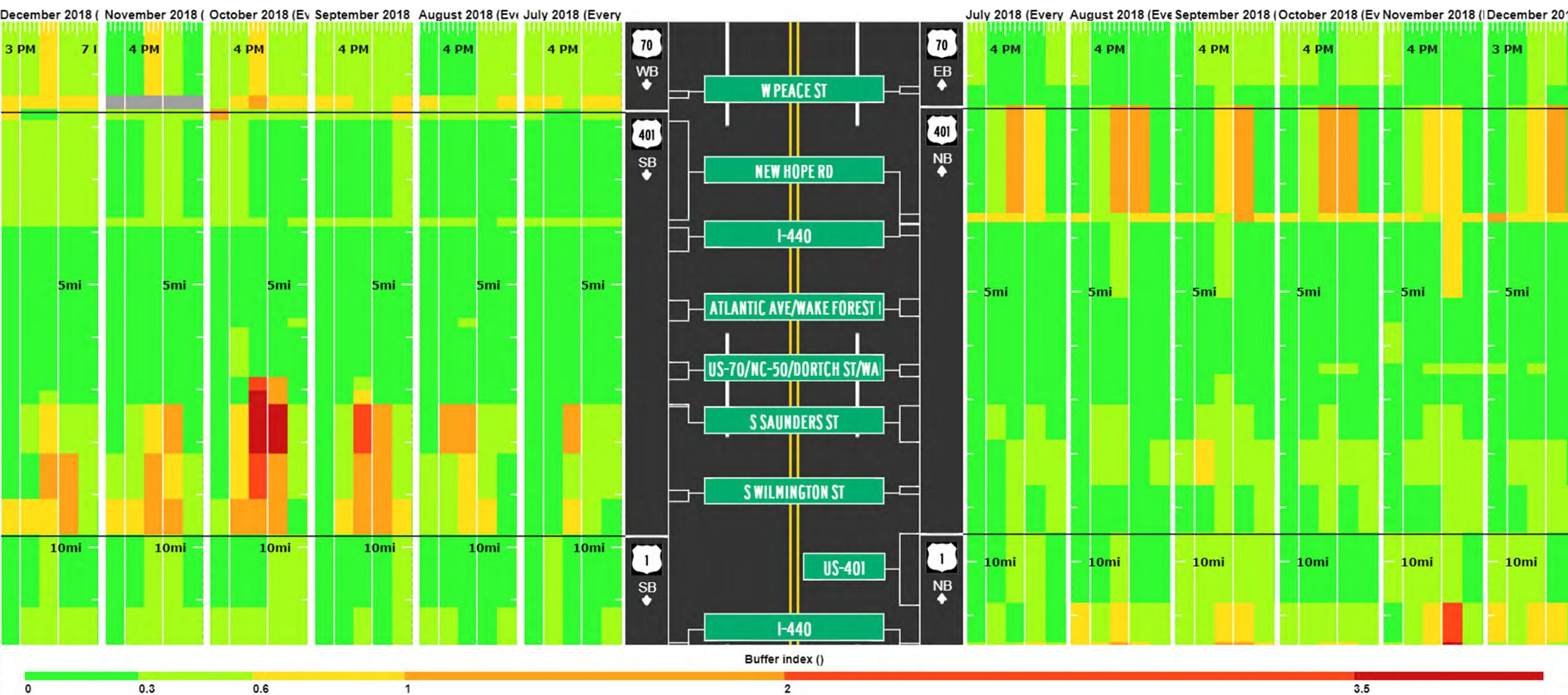
# US-401 (Raleigh) Buffer Index, PM Peak in Jan-Jun 2018

Buffer index for US-70, US-401, and US-1 using HERE data



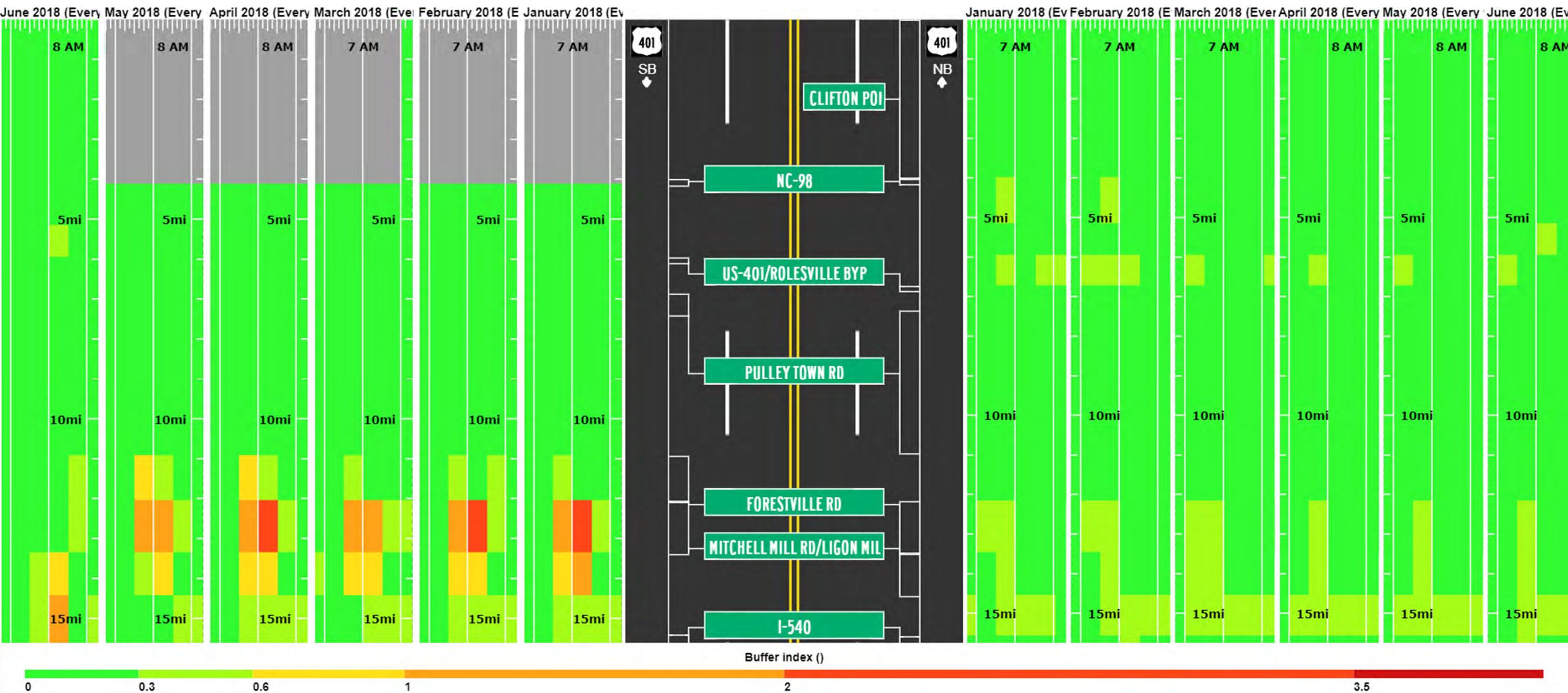
# US-401 (Raleigh) Buffer Index, PM Peak in Jul-Dec 2018

Buffer index for US-70, US-401, and US-1 using HERE data



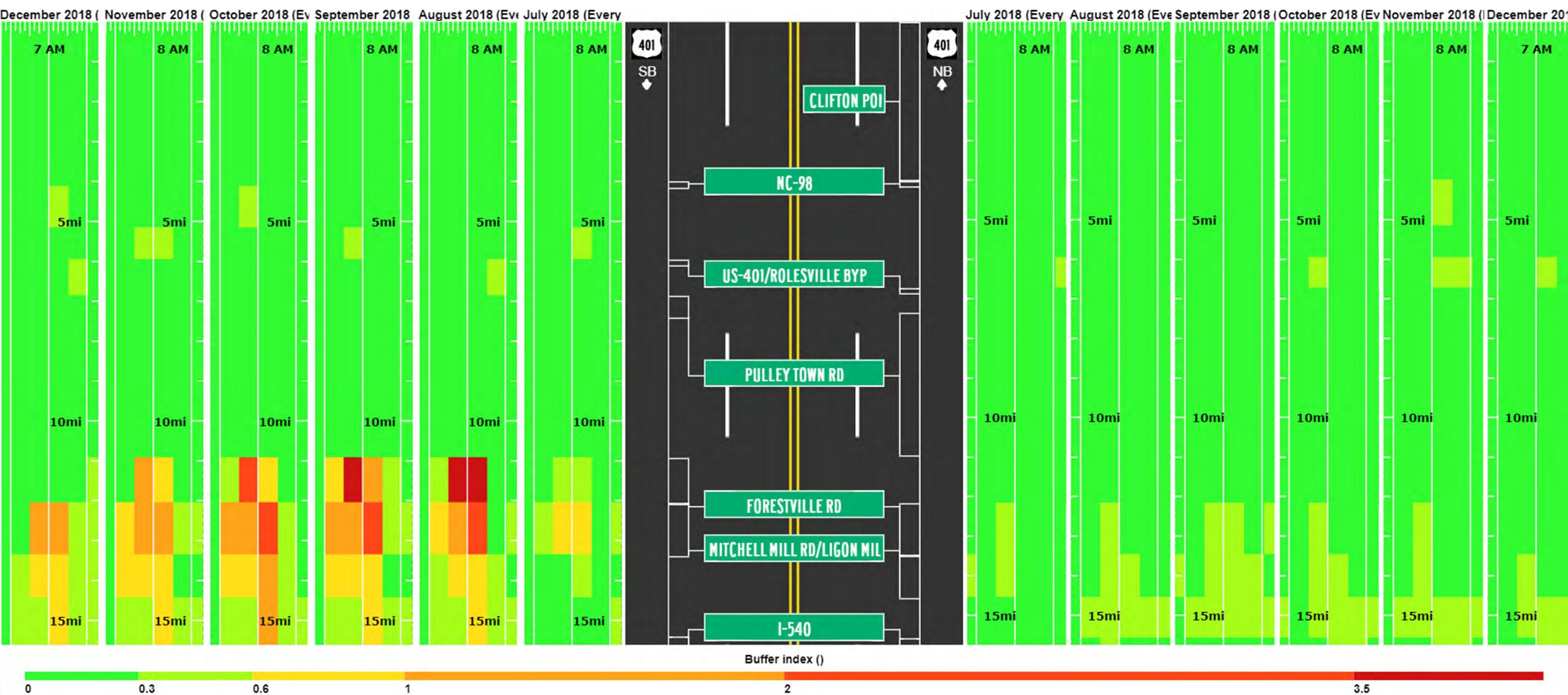
# US-401 (Rolesville) Buffer Index, AM Peak in Jan-Jun 2018

Buffer index for US-401 using HERE data



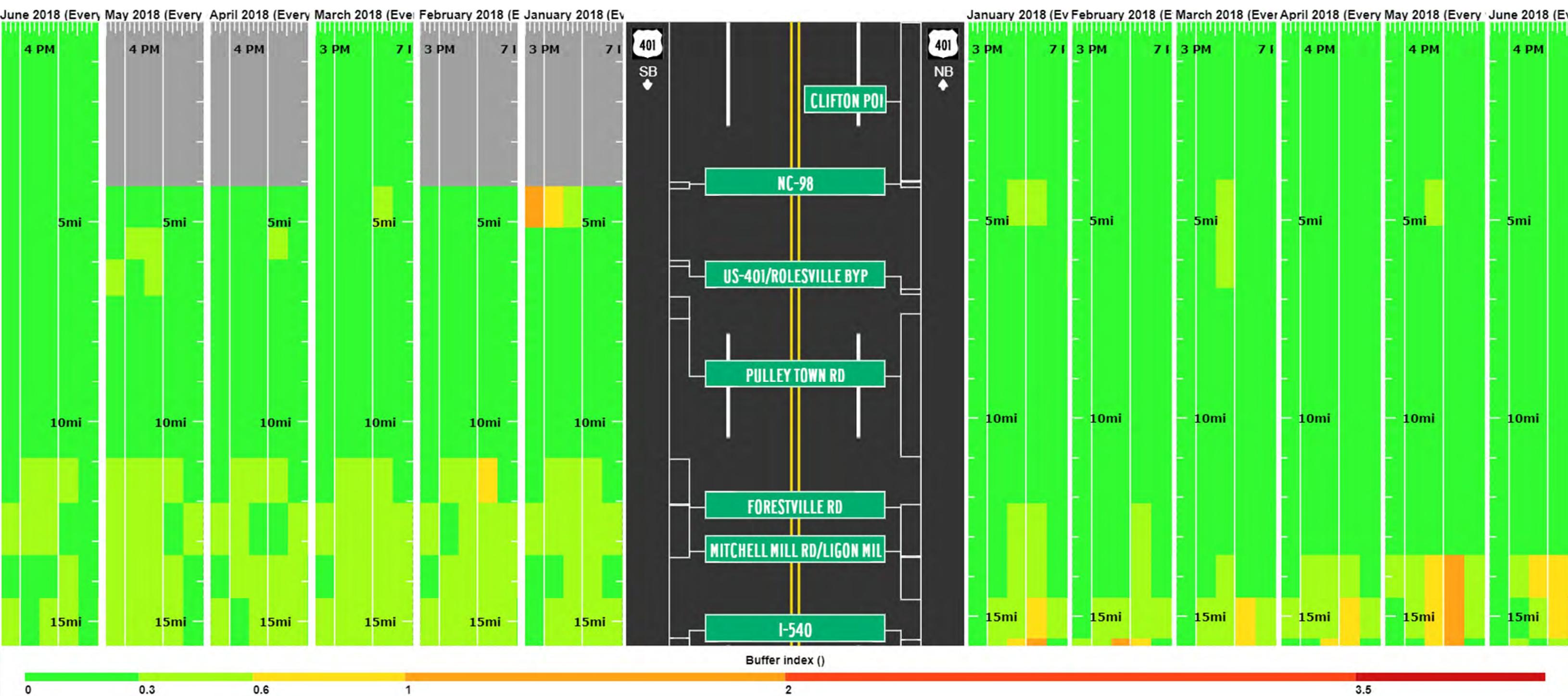
# US-401 (Rolesville) Buffer Index, AM Peak in Jul-Dec 2018

Buffer index for US-401 using HERE data



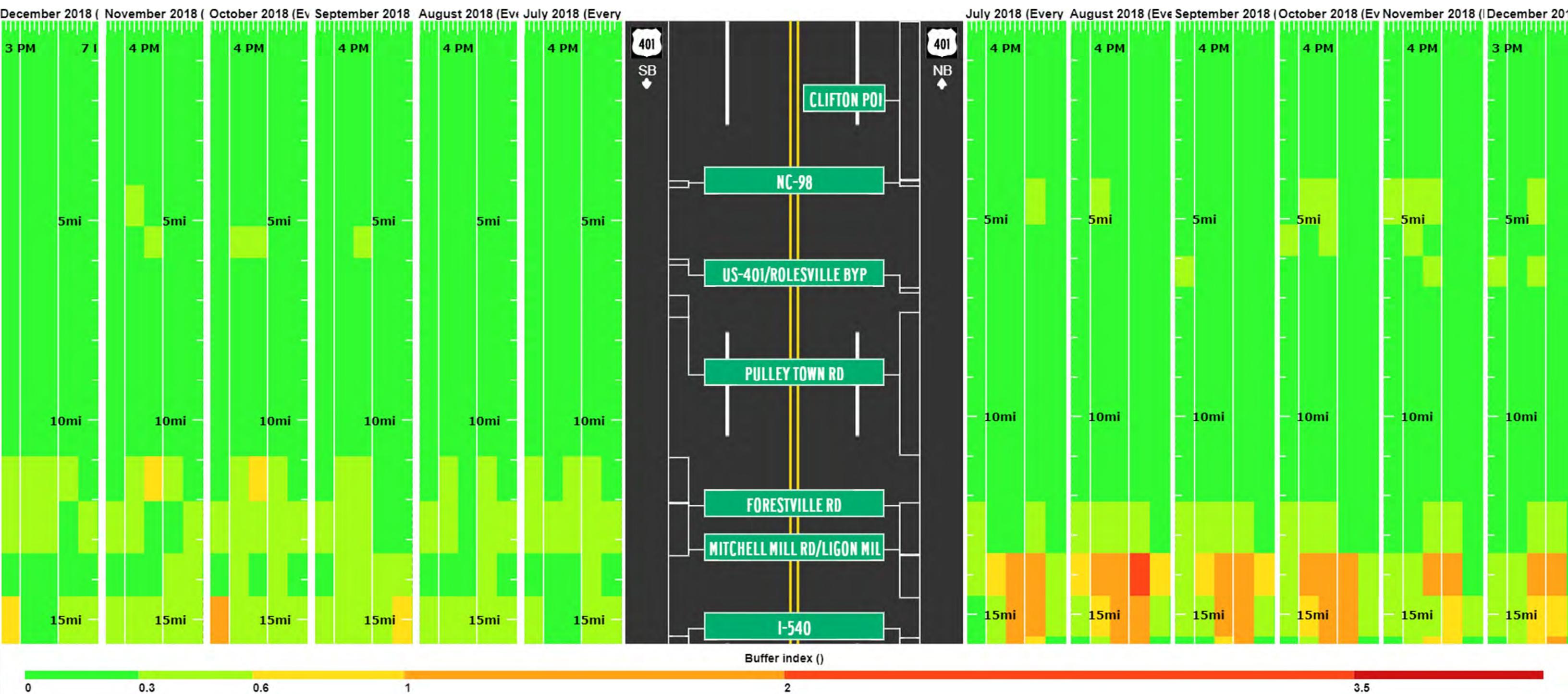
# US-401 (Rolesville) Buffer Index, PM Peak in Jan-Jun 2018

Buffer index for US-401 using HERE data



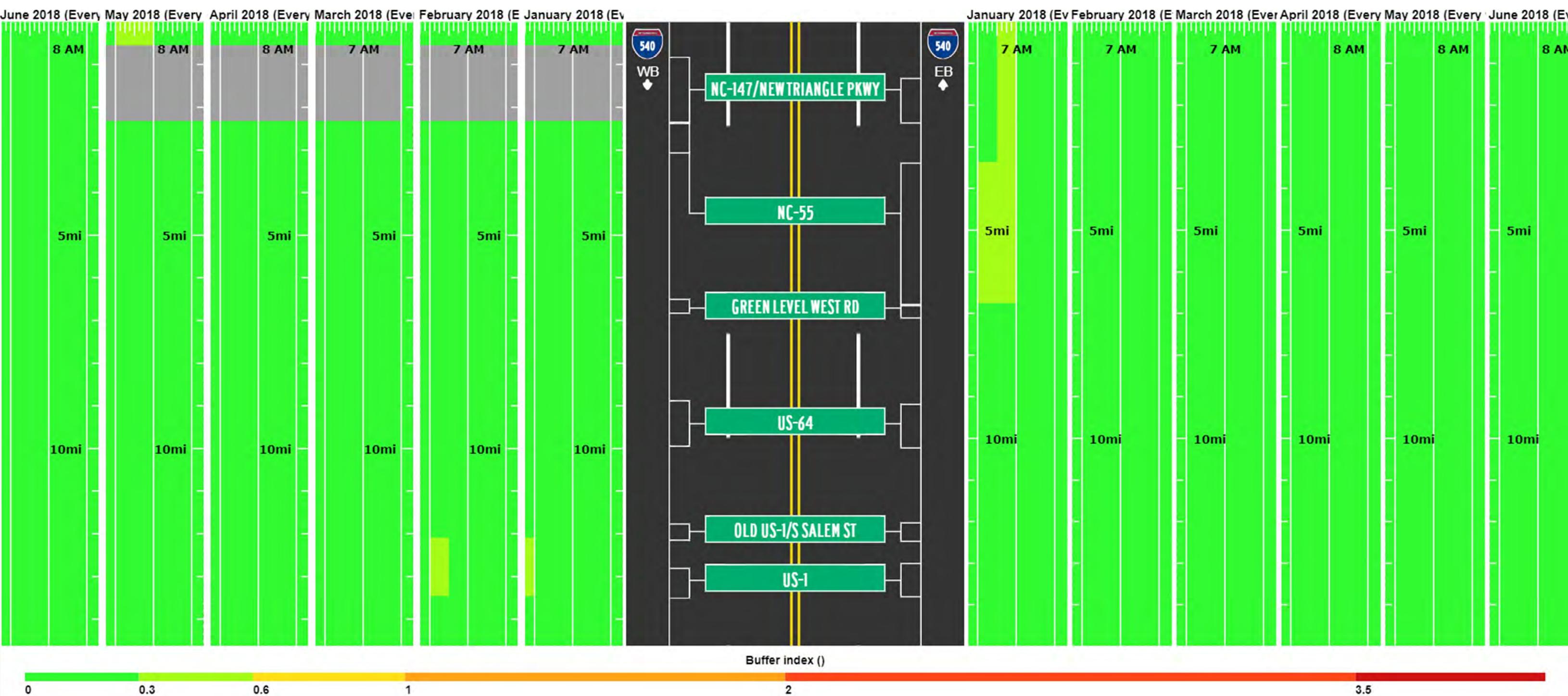
# US-401 (Rolesville) Buffer Index, PM Peak in Jul-Dec 2018

## Buffer index for US-401 using HERE data



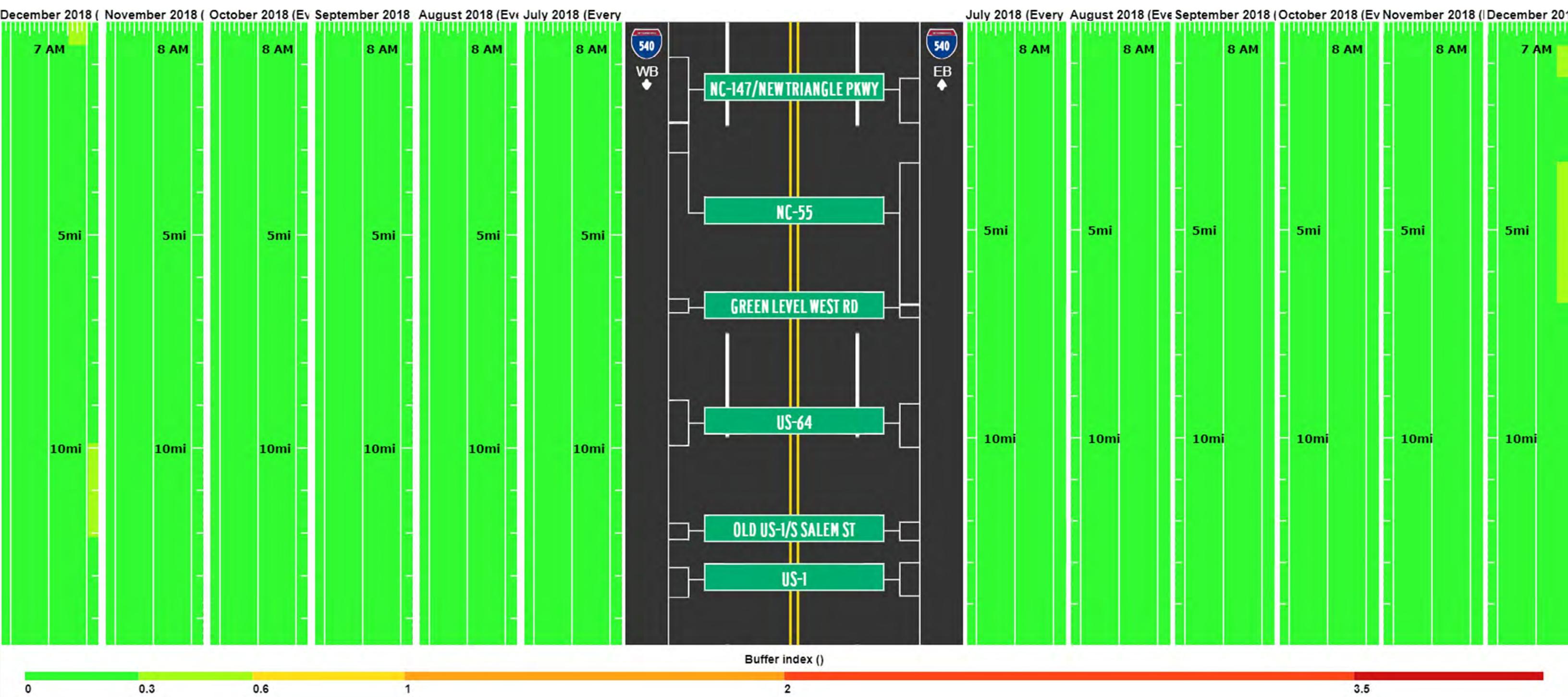
# NC-540 (Toll) Buffer Index, AM Peak in Jan-Jun 2018

Buffer index for I-540 using HERE data



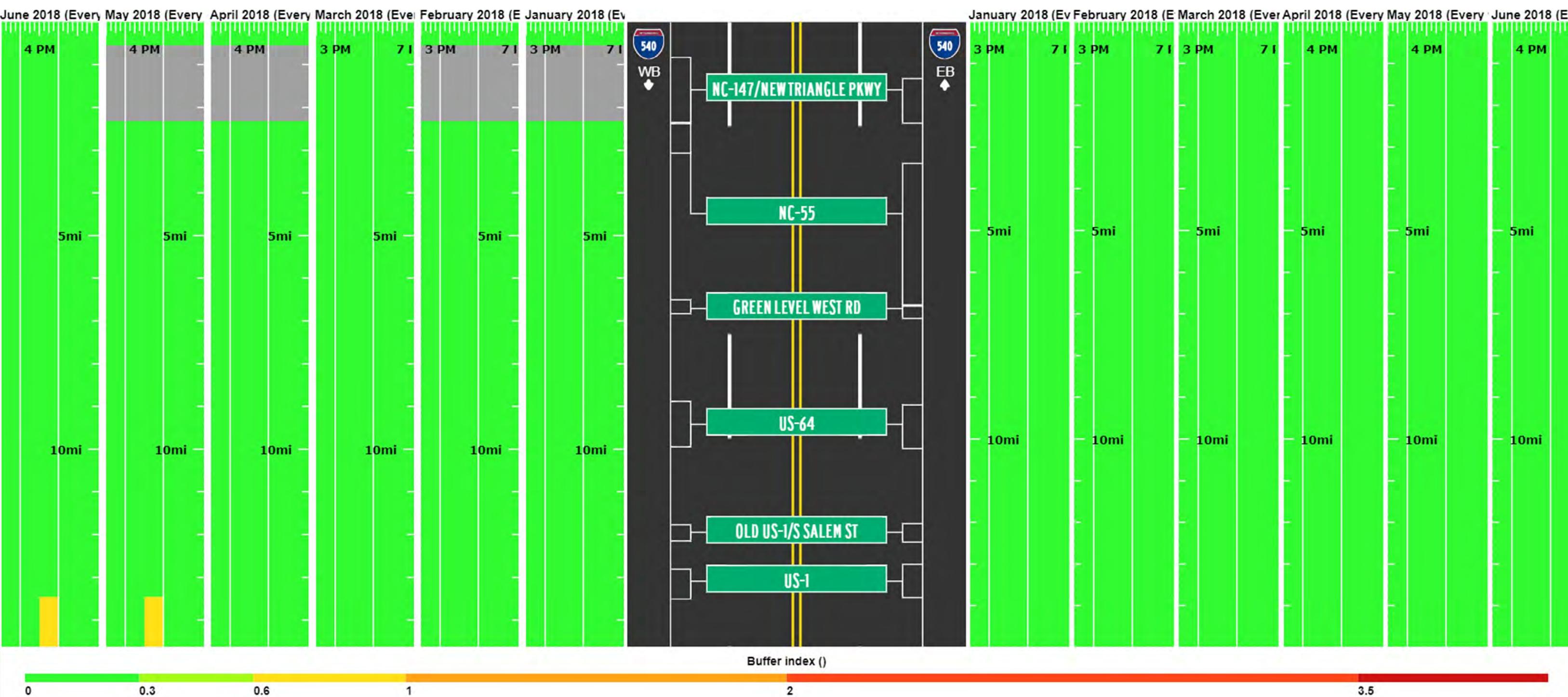
# NC-540 (Toll) Buffer Index, AM Peak in Jul-Dec 2018

Buffer index for I-540 using HERE data



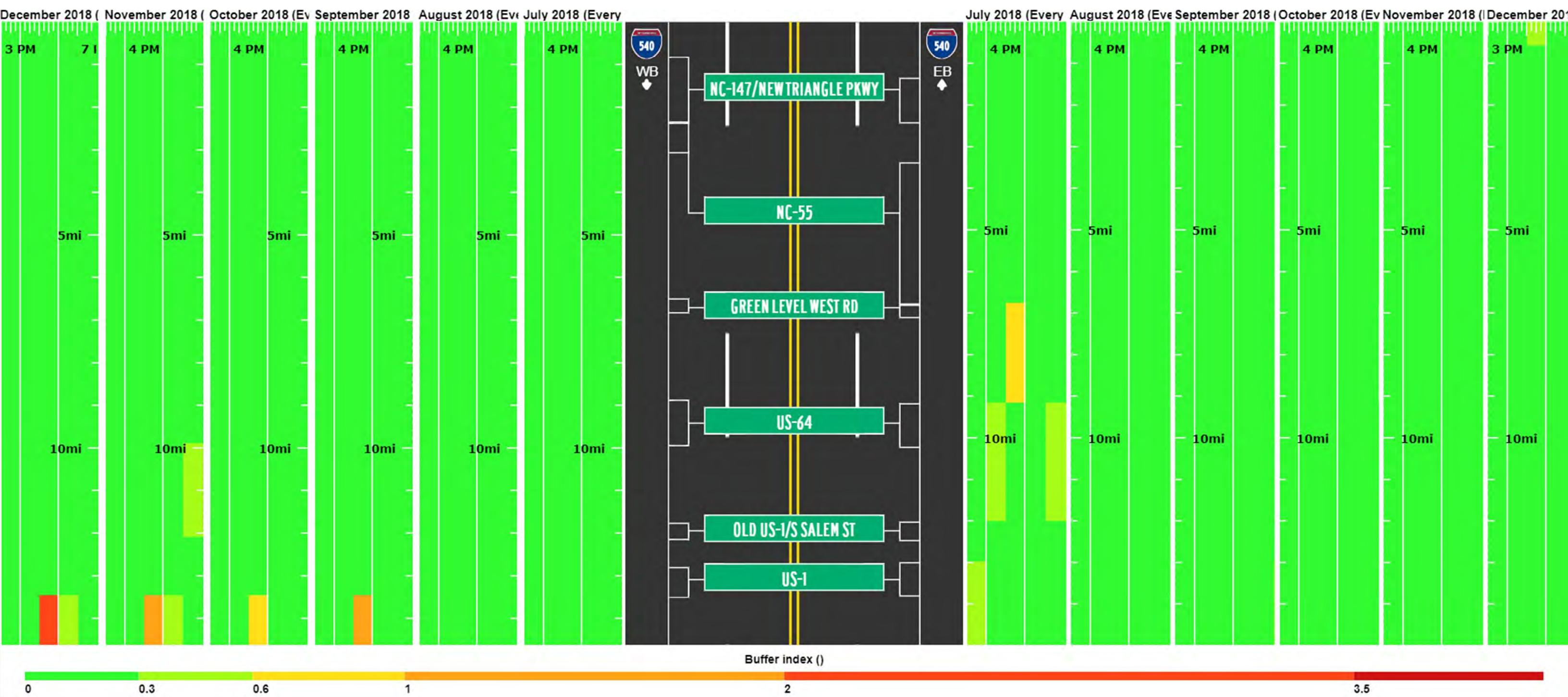
# NC-540 (Toll) Buffer Index, PM Peak in Jan-Jun 2018

Buffer index for I-540 using HERE data



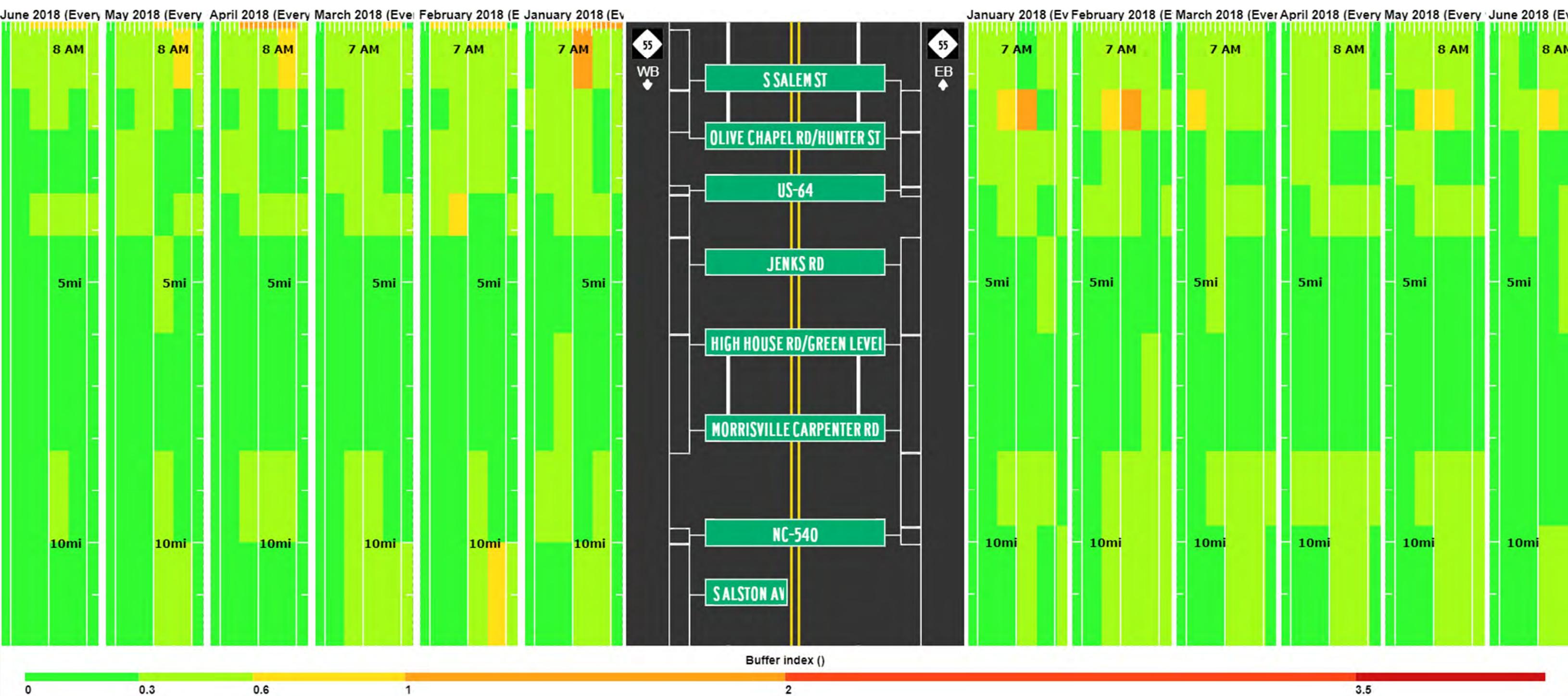
# NC-540 (Toll) Buffer Index, PM Peak in Jul-Dec 2018

Buffer index for I-540 using HERE data



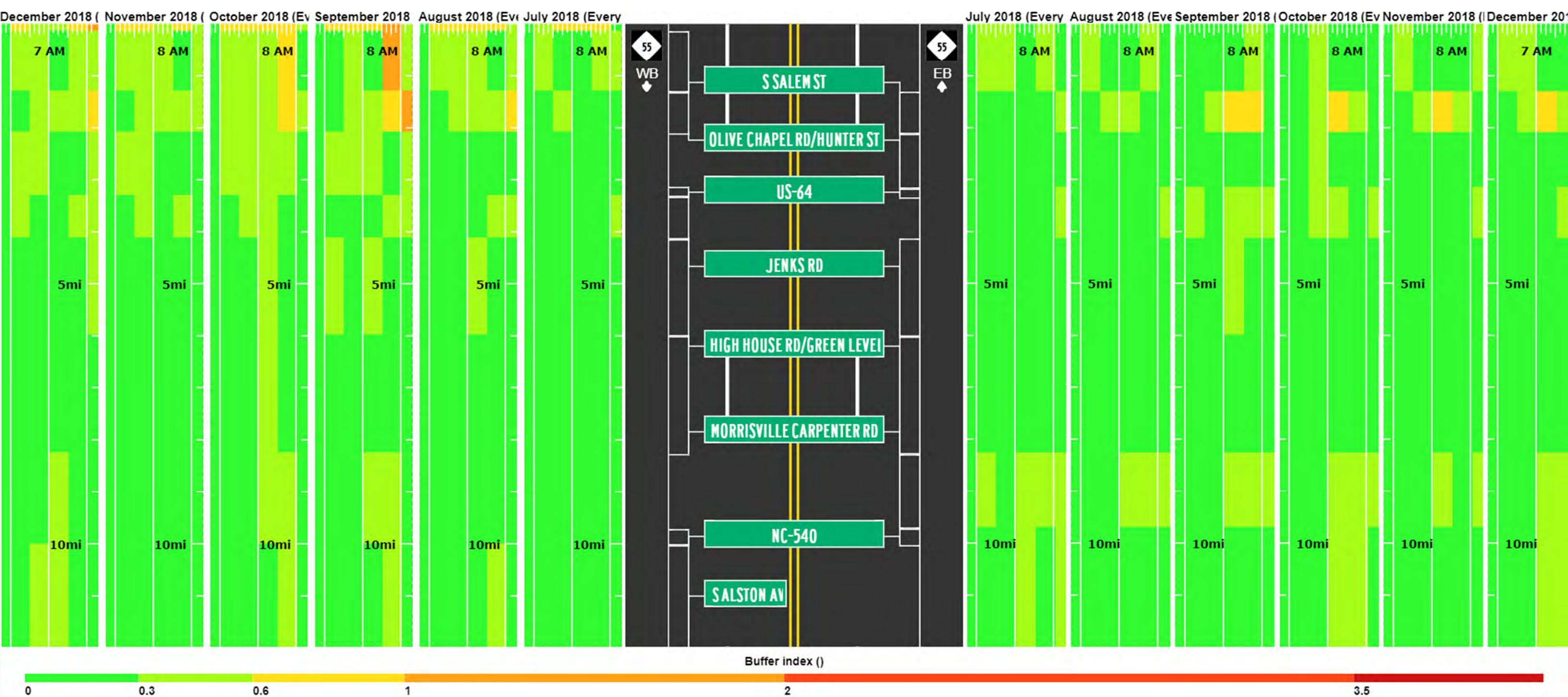
# NC-55 (Cary) Buffer Index, AM Peak in Jan-Jun 2018

## Buffer index for NC-55 using HERE data



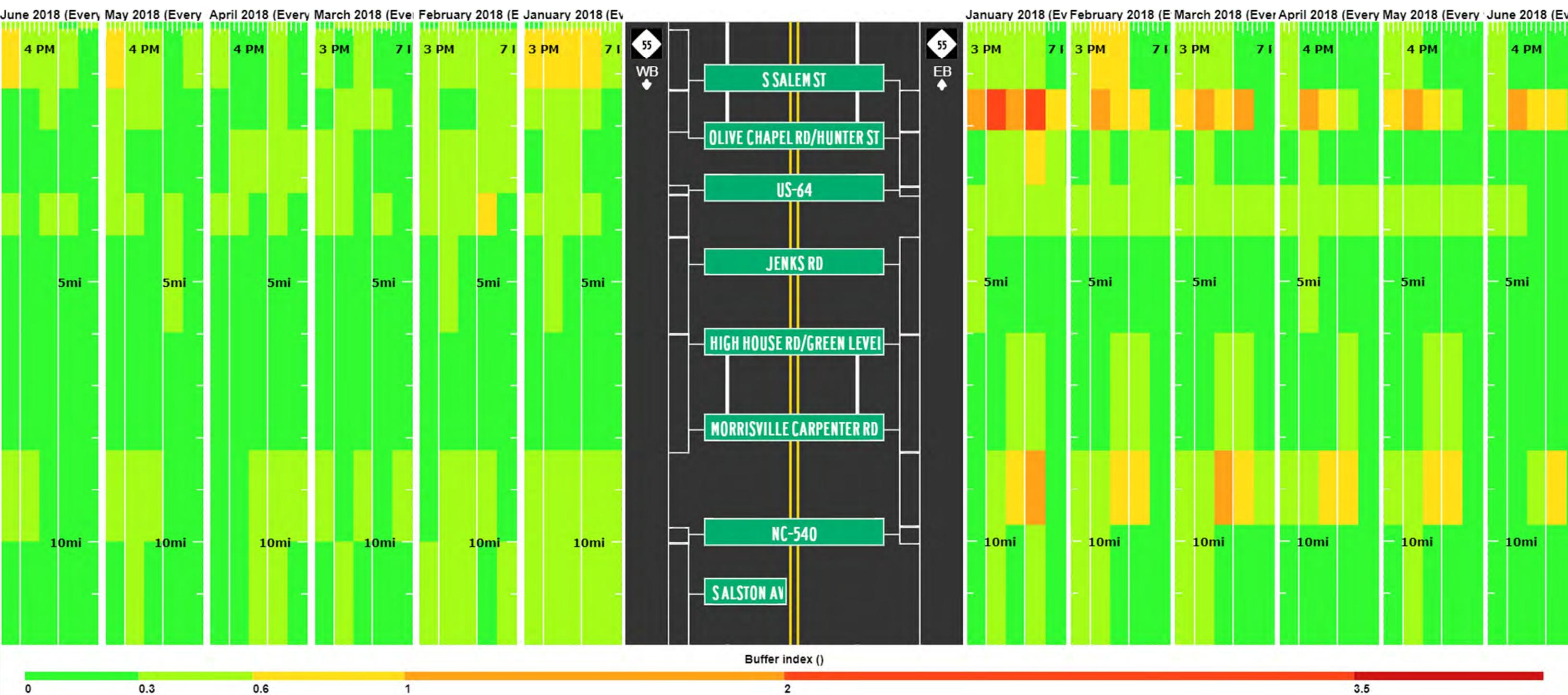
# NC-55 (Cary) Buffer Index, AM Peak in Jul-Dec 2018

Buffer index for NC-55 using HERE data



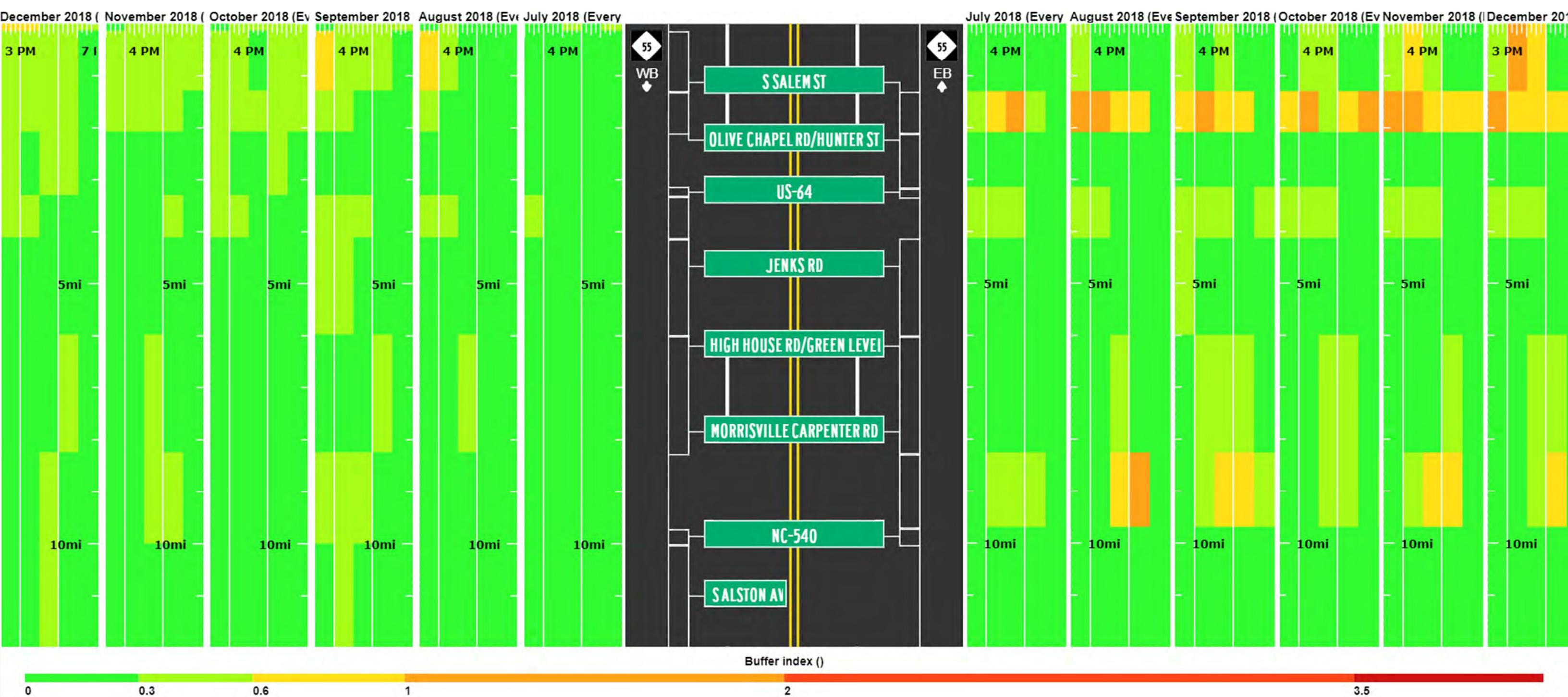
# NC-55 (Cary) Buffer Index, PM Peak in Jan-Jun 2018

Buffer index for NC-55 using HERE data



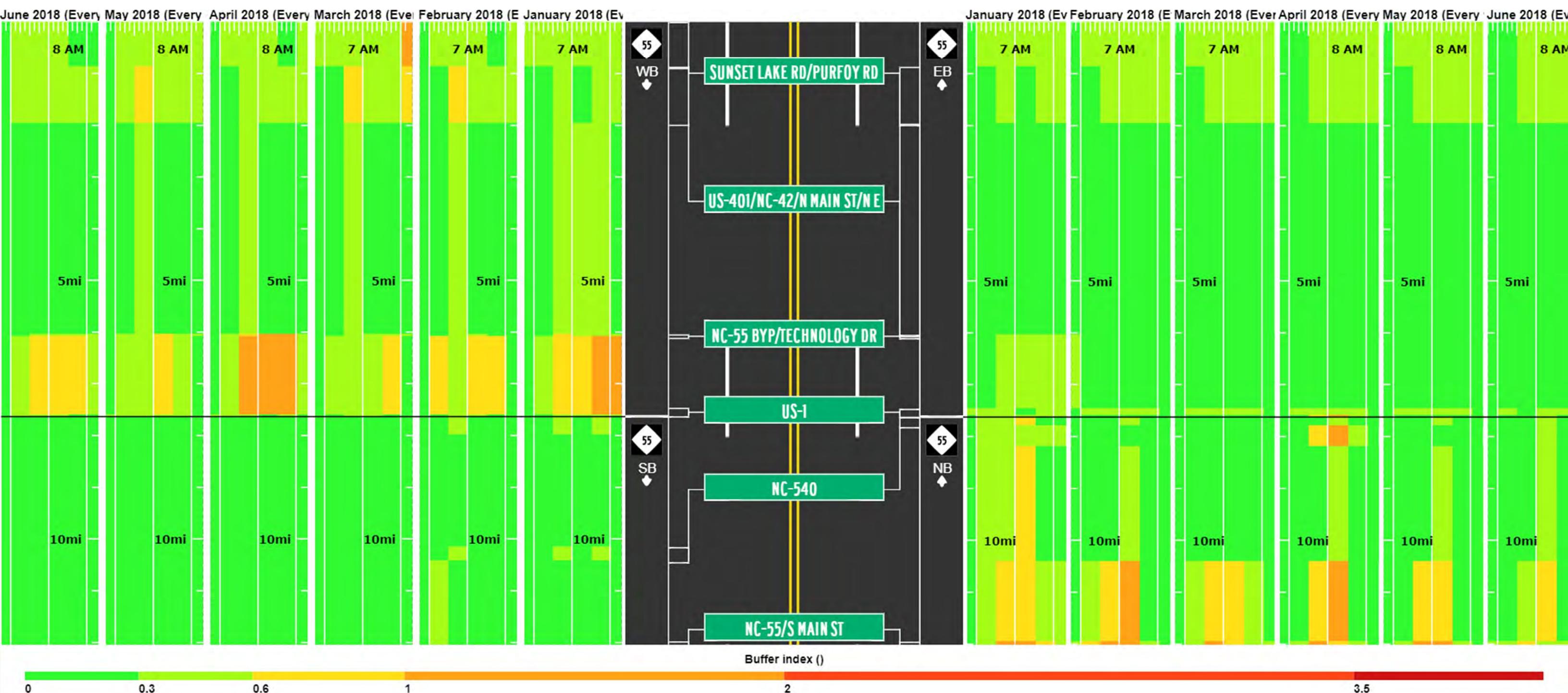
# NC-55 (Cary) Buffer Index, PM Peak in Jul-Dec 2018

Buffer index for NC-55 using HERE data



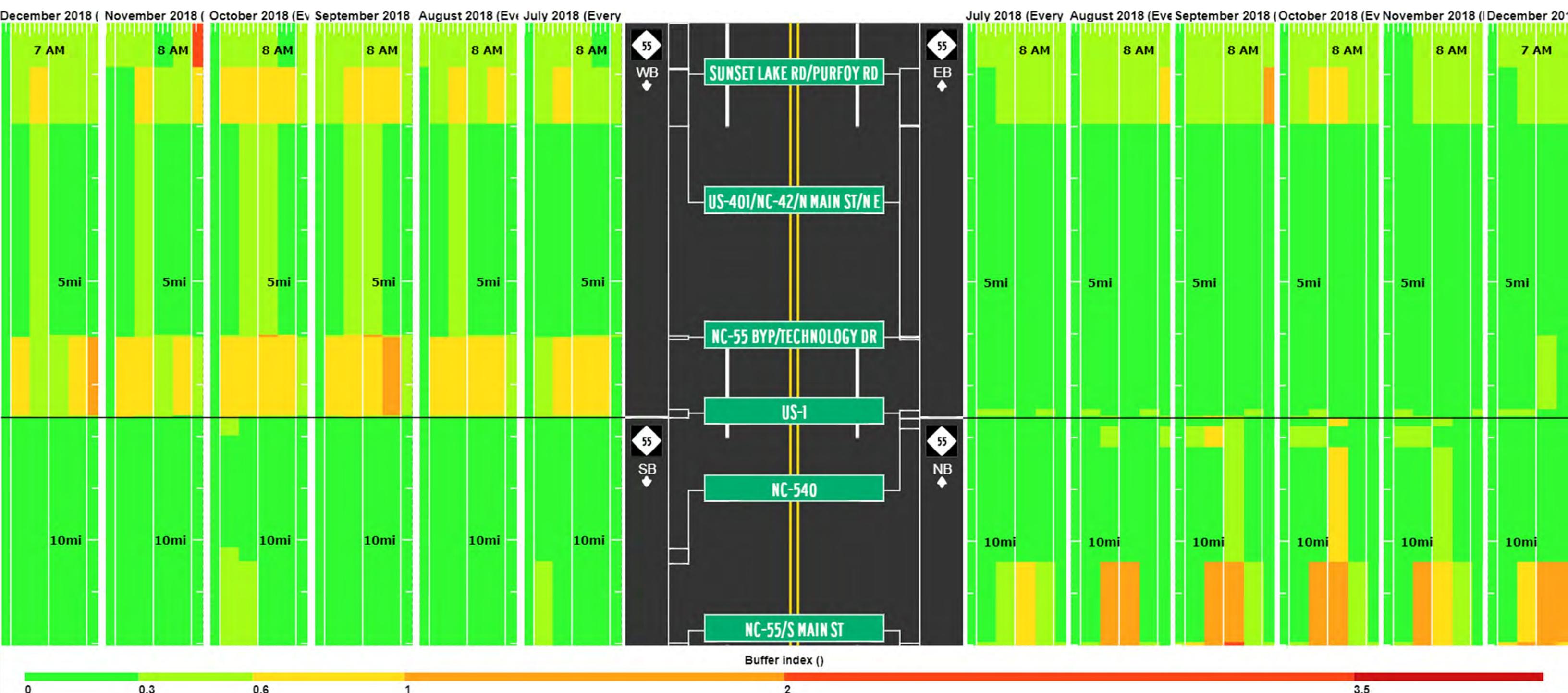
# NC-55 (Holly Springs) Buffer Index, AM Peak Jan-Jun 2018

Buffer index for NC-55 and NC-55-BYP using HERE data



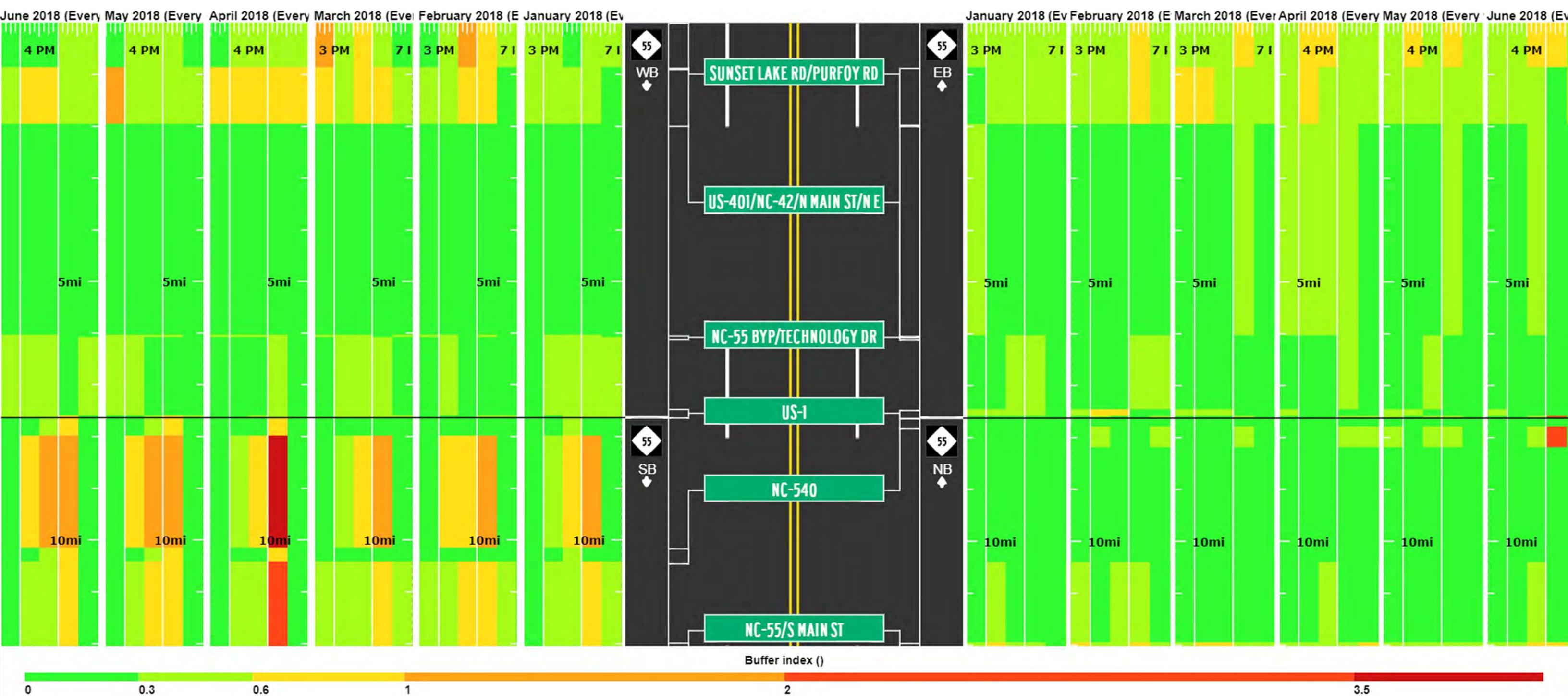
# NC-55 (Holly Springs) Buffer Index, AM Peak Jul-Dec 2018

Buffer index for NC-55 and NC-55-BYP using HERE data



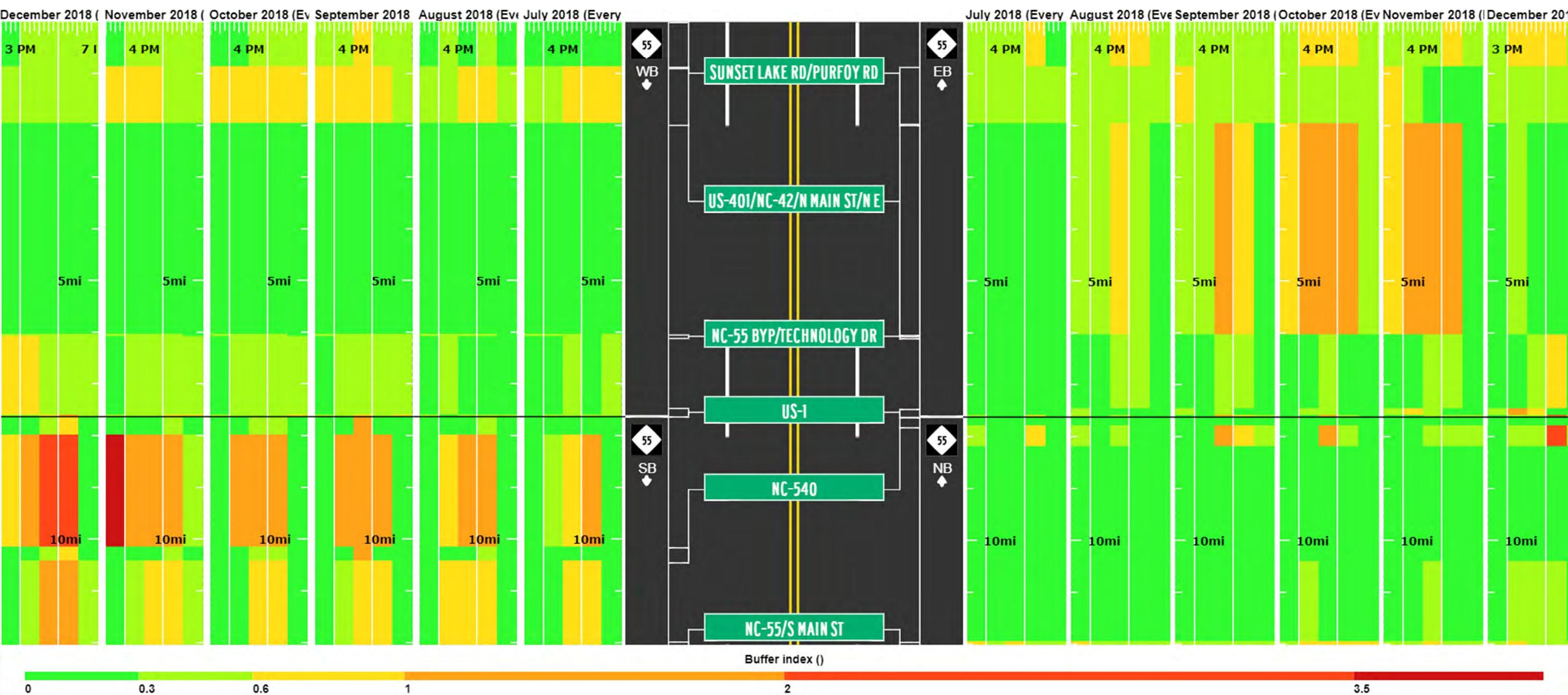
# NC-55 (Holly Springs) Buffer Index, PM Peak Jan-Jun 2018

Buffer index for NC-55 and NC-55-BYP using HERE data



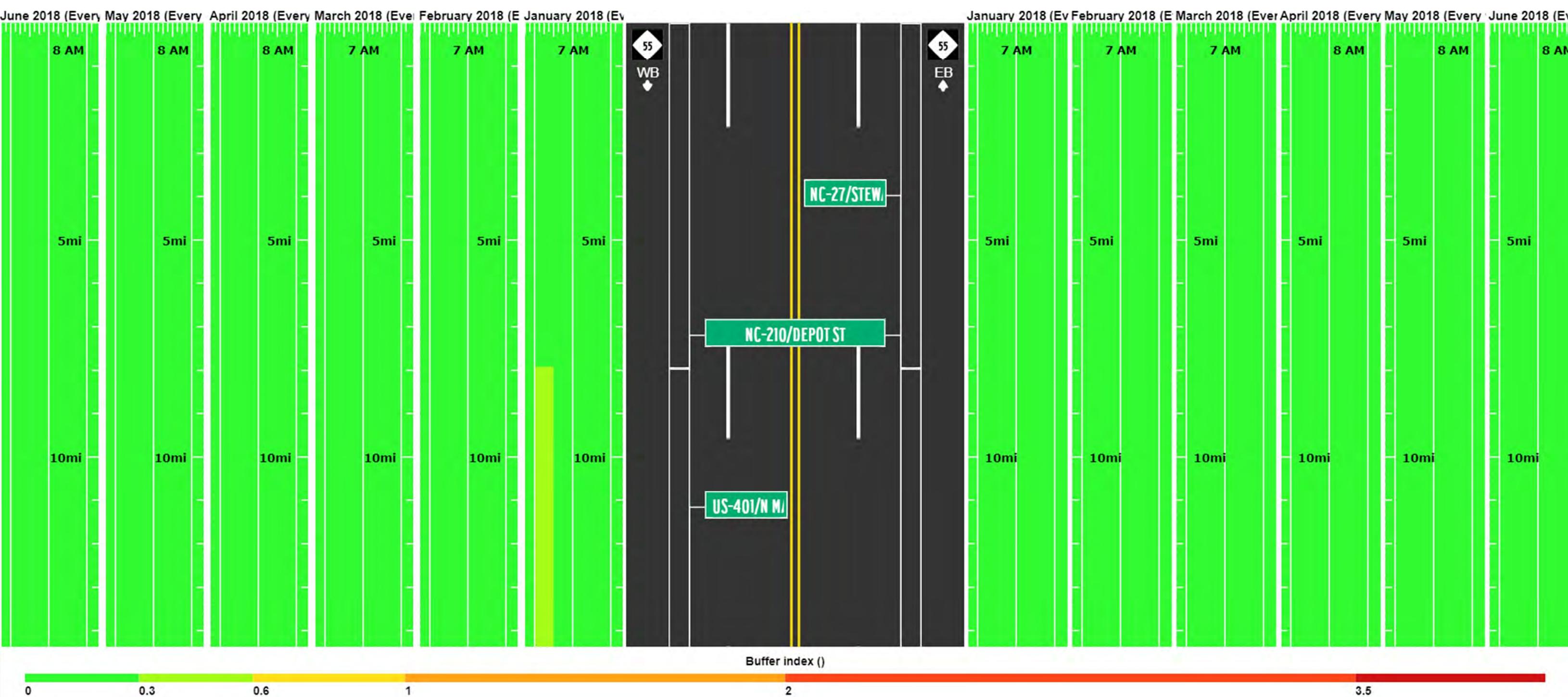
# NC-55 (Holly Springs) Buffer Index, PM Peak Jul-Dec 2018

## Buffer index for NC-55 and NC-55-BYP using HERE data



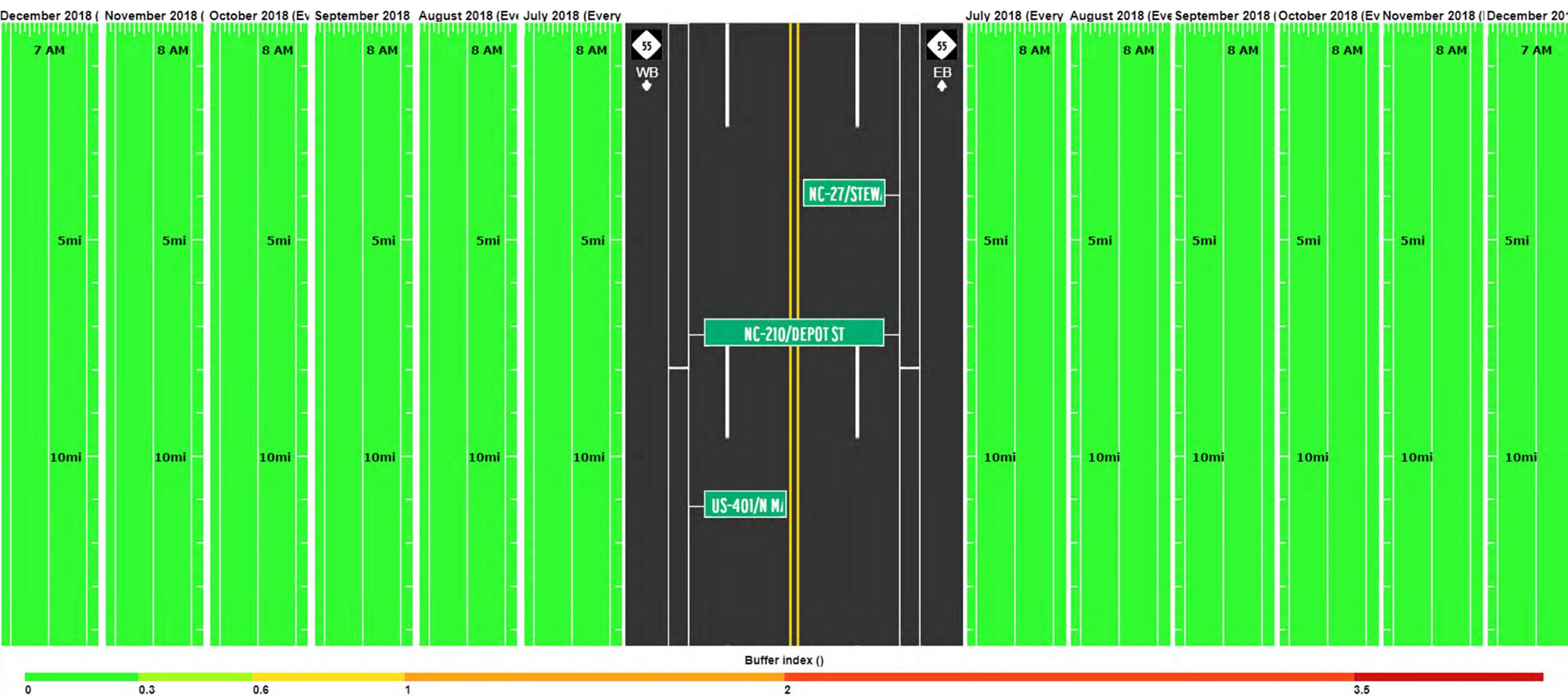
# NC-55 (Angier) Buffer Index, AM Peak in Jan-Jun 2018

Buffer index for NC-55 using HERE data



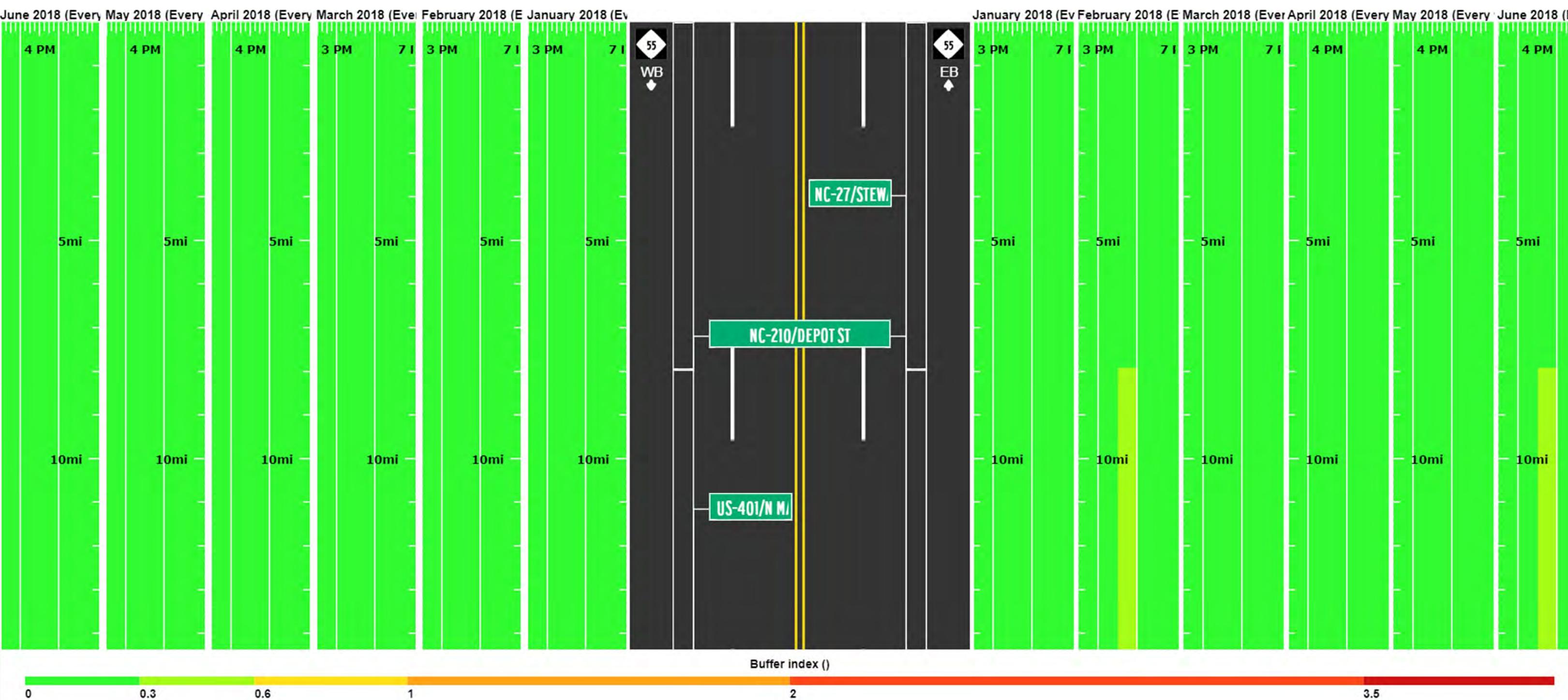
# NC-55 (Angier) Buffer Index, AM Peak in Jul-Dec 2018

Buffer index for NC-55 using HERE data



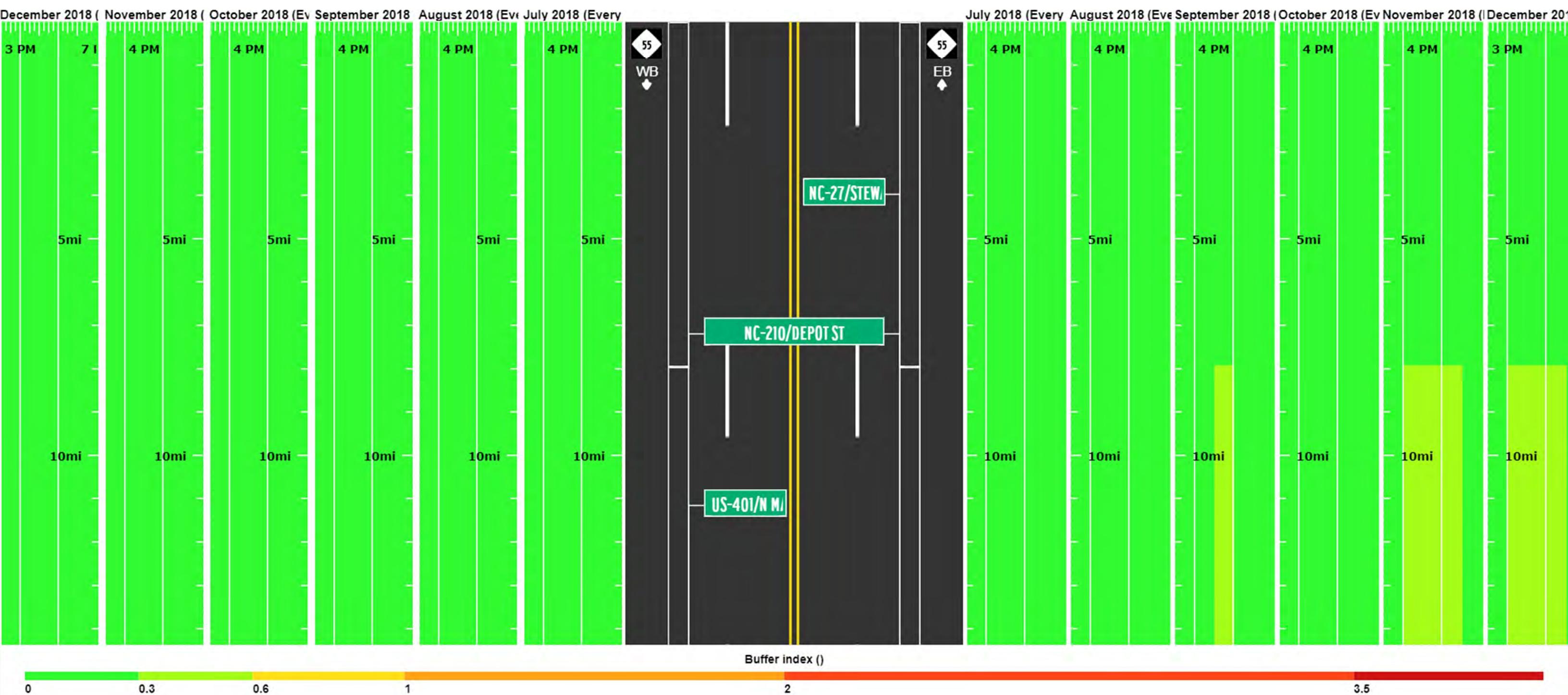
# NC-55 (Angier) Buffer Index, PM Peak in Jan-Jun 2018

Buffer index for NC-55 using HERE data



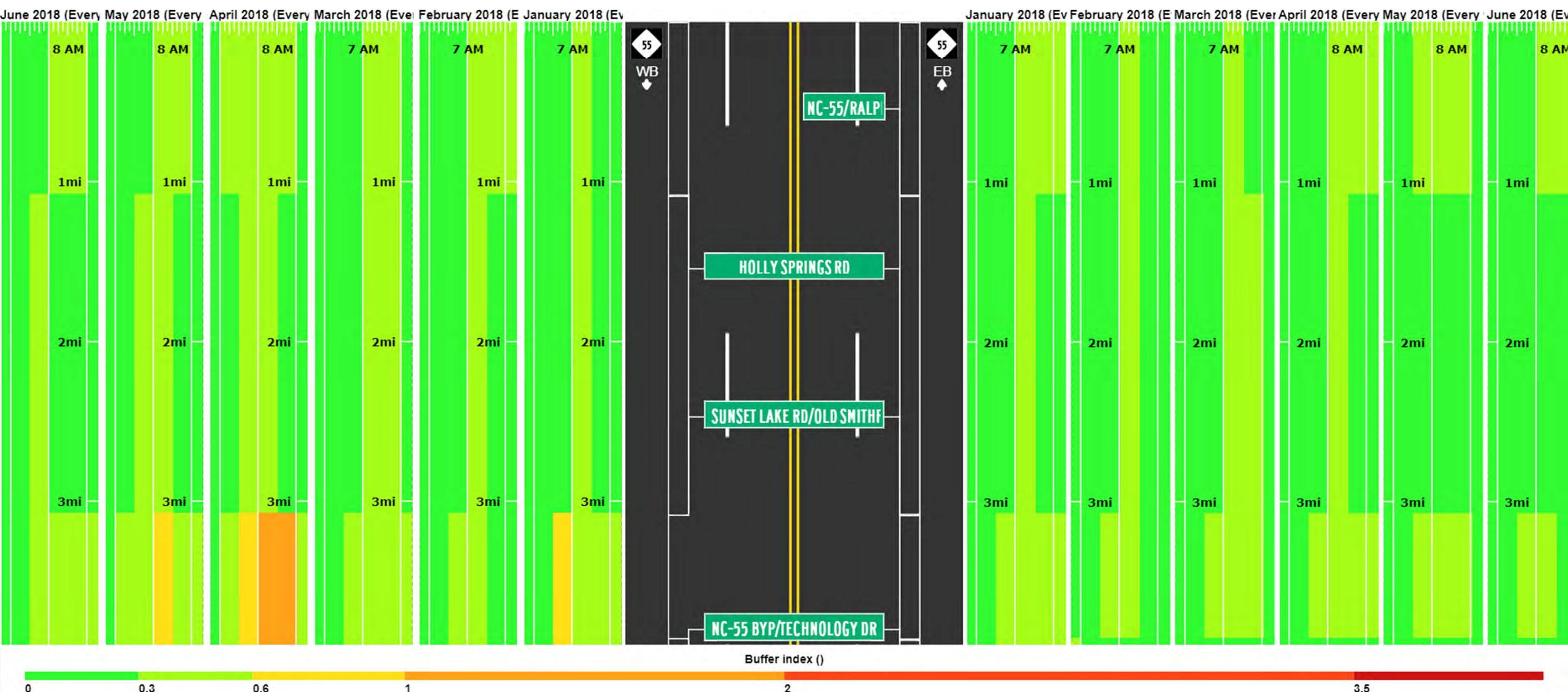
# NC-55 (Angier) Buffer Index, PM Peak in Jul-Dec 2018

Buffer index for NC-55 using HERE data



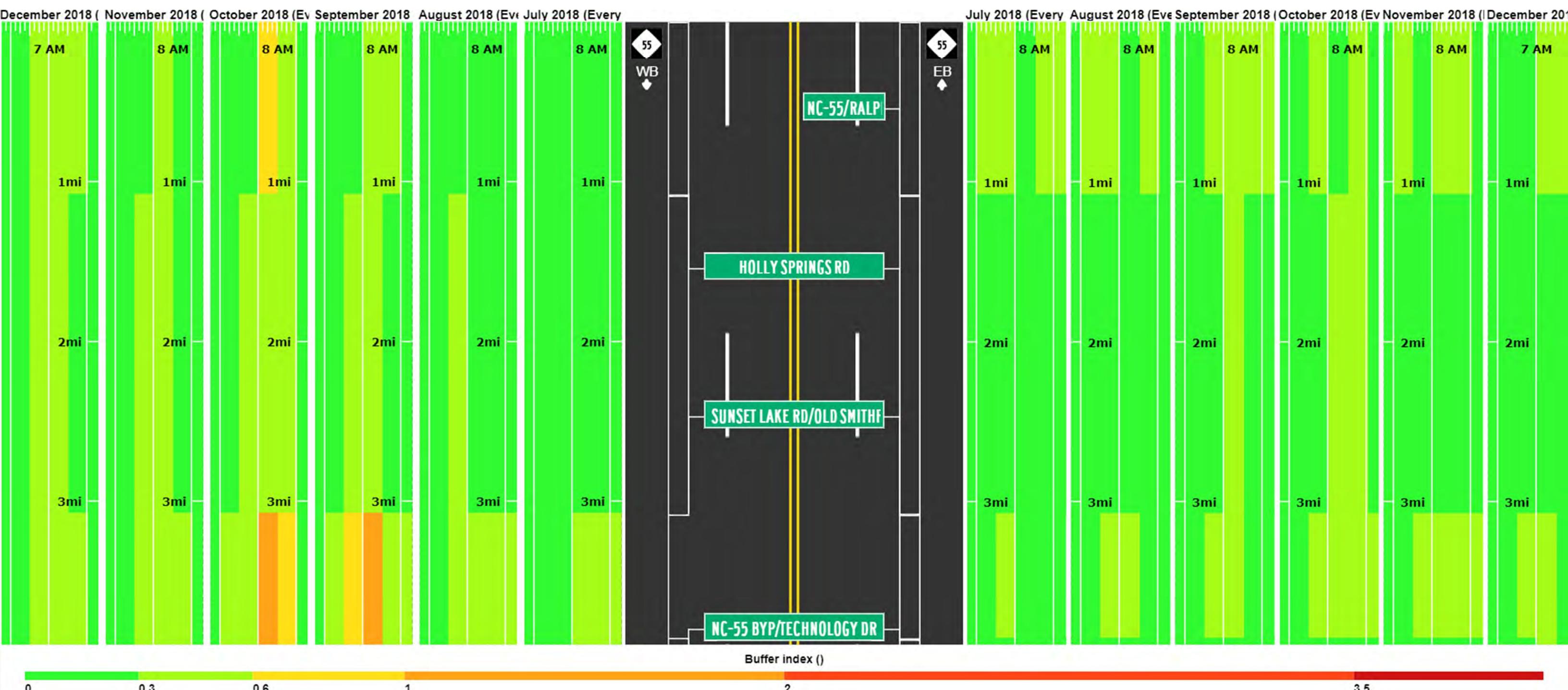
# NC-55 (Main St) Buffer Index, AM Peak in Jan-Jun 2018

Buffer index for NC-55 using HERE data



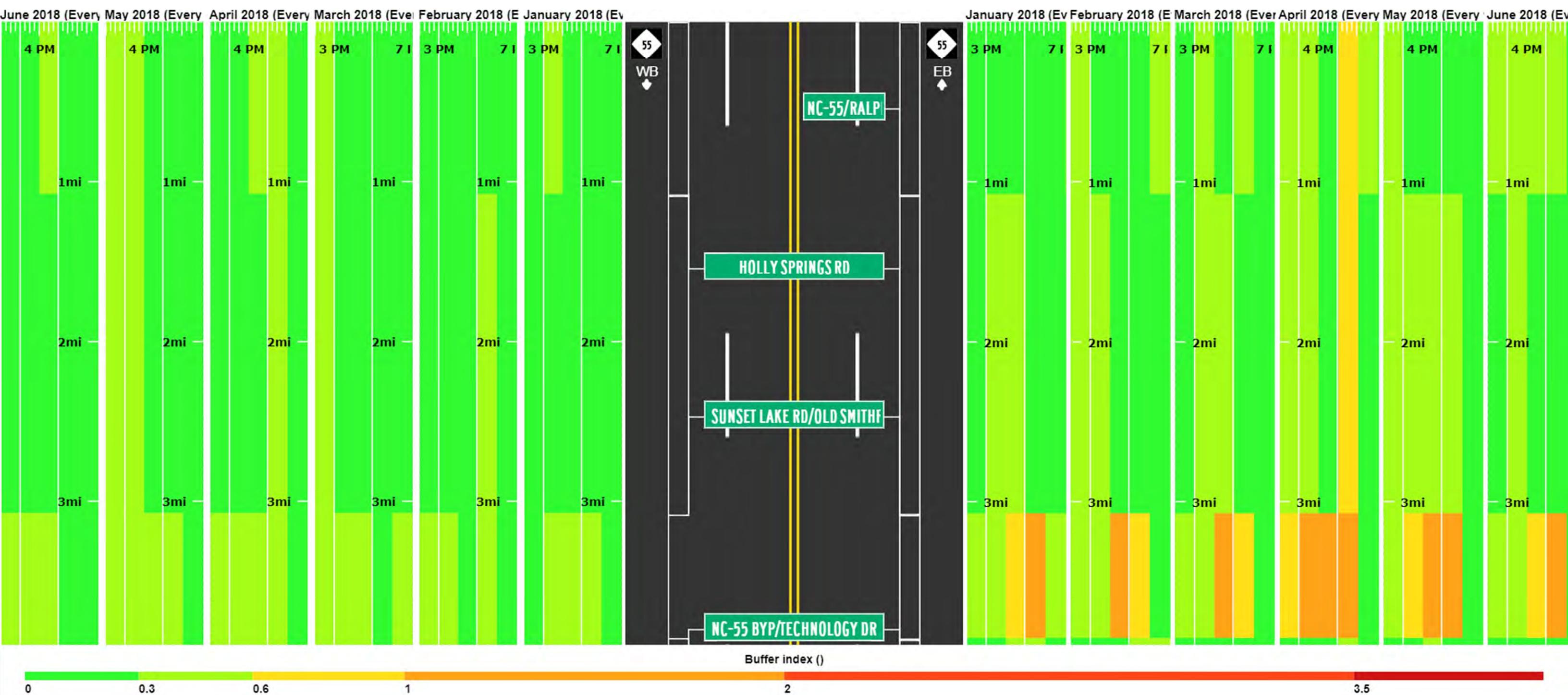
# NC-55 (Main St) Buffer Index, AM Peak in Jul-Dec 2018

Buffer index for NC-55 using HERE data



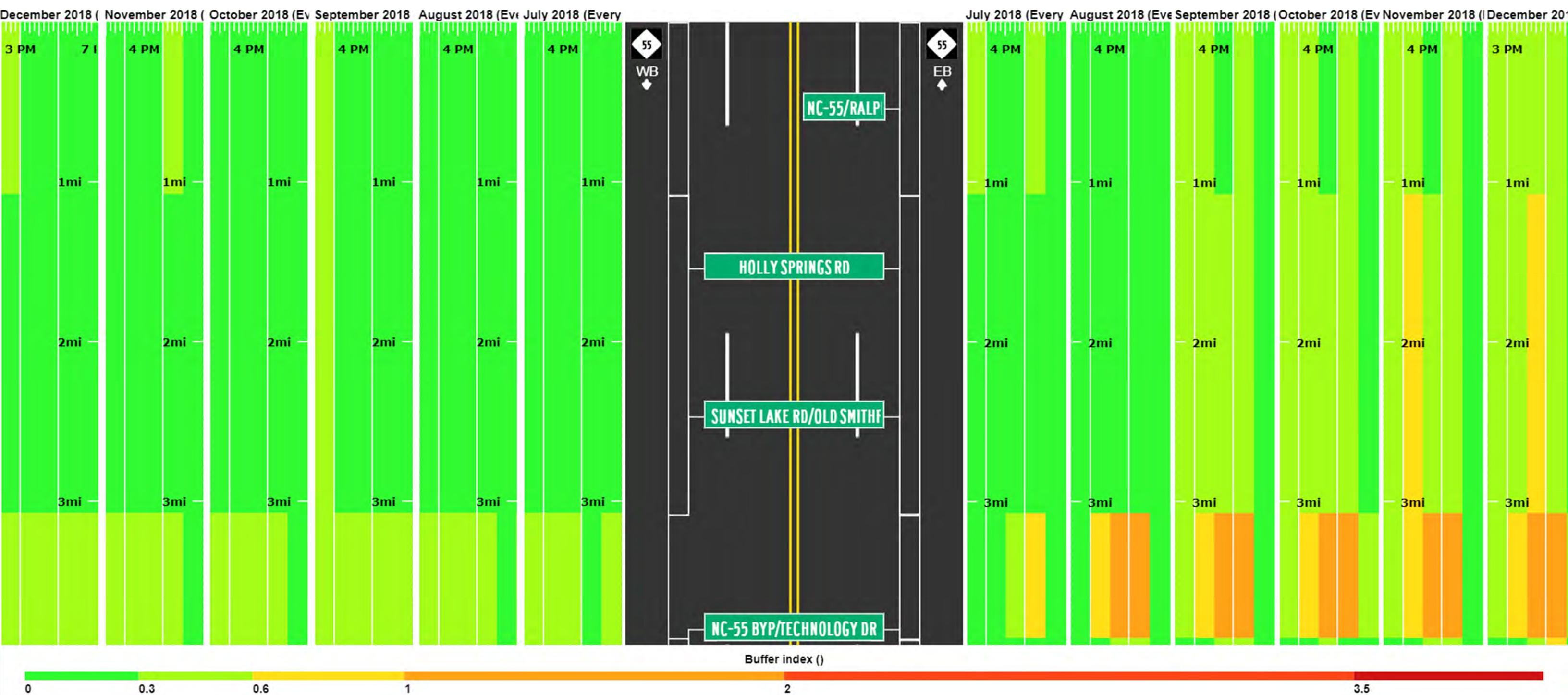
# NC-55 (Main St) Buffer Index, PM Peak in Jan-Jun 2018

Buffer index for NC-55 using HERE data



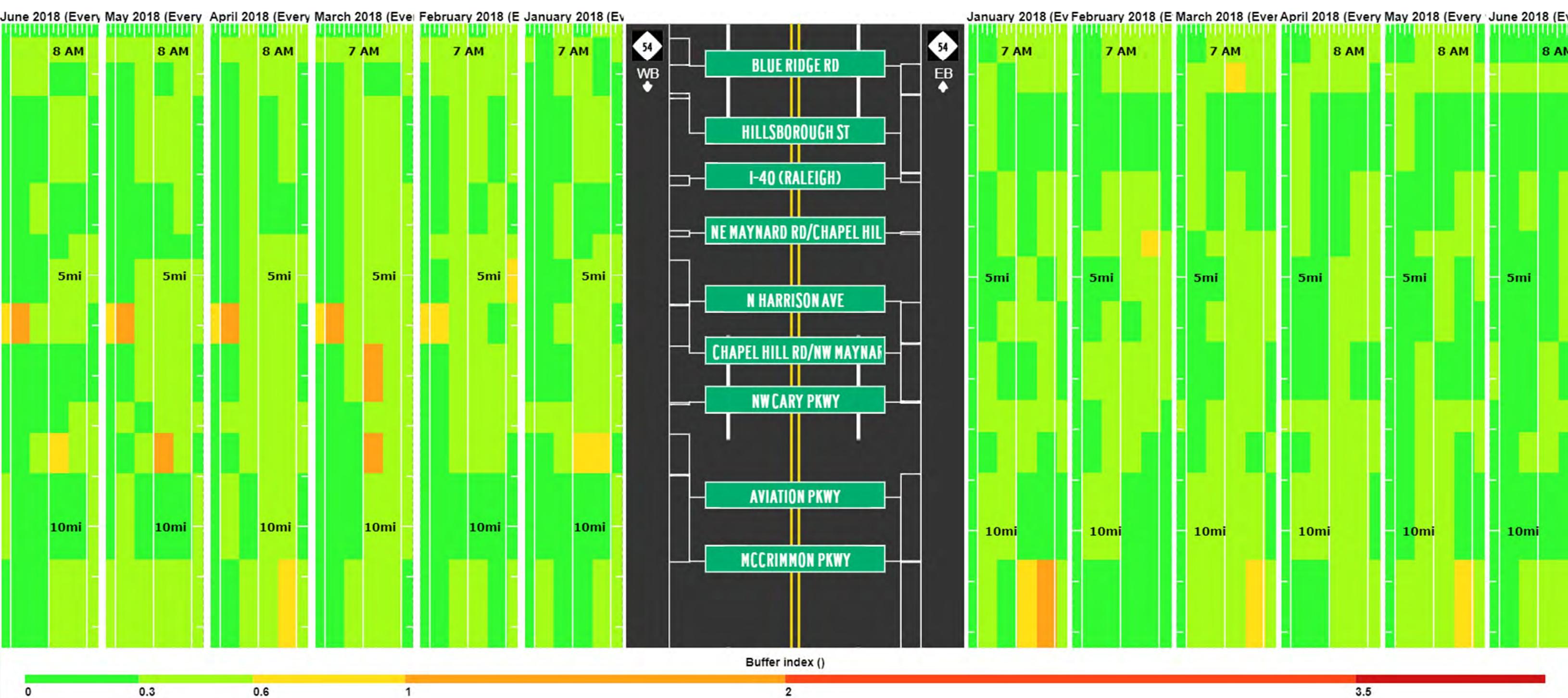
# NC-55 (Main St) Buffer Index, PM Peak in Jul-Dec 2018

Buffer index for NC-55 using HERE data



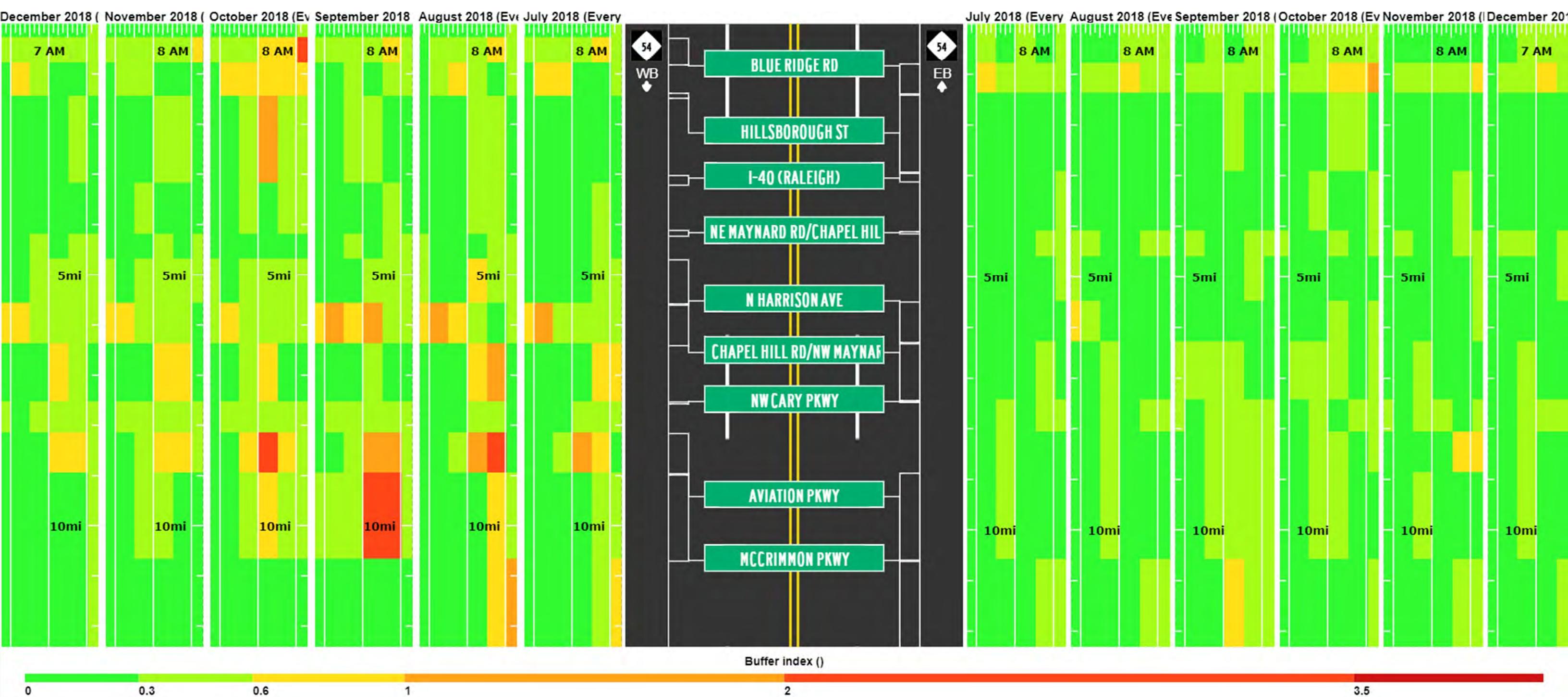
# NC-54 (Morrisville) Buffer Index, AM Peak in Jan-Jun 2018

Buffer index for NC-54 using HERE data



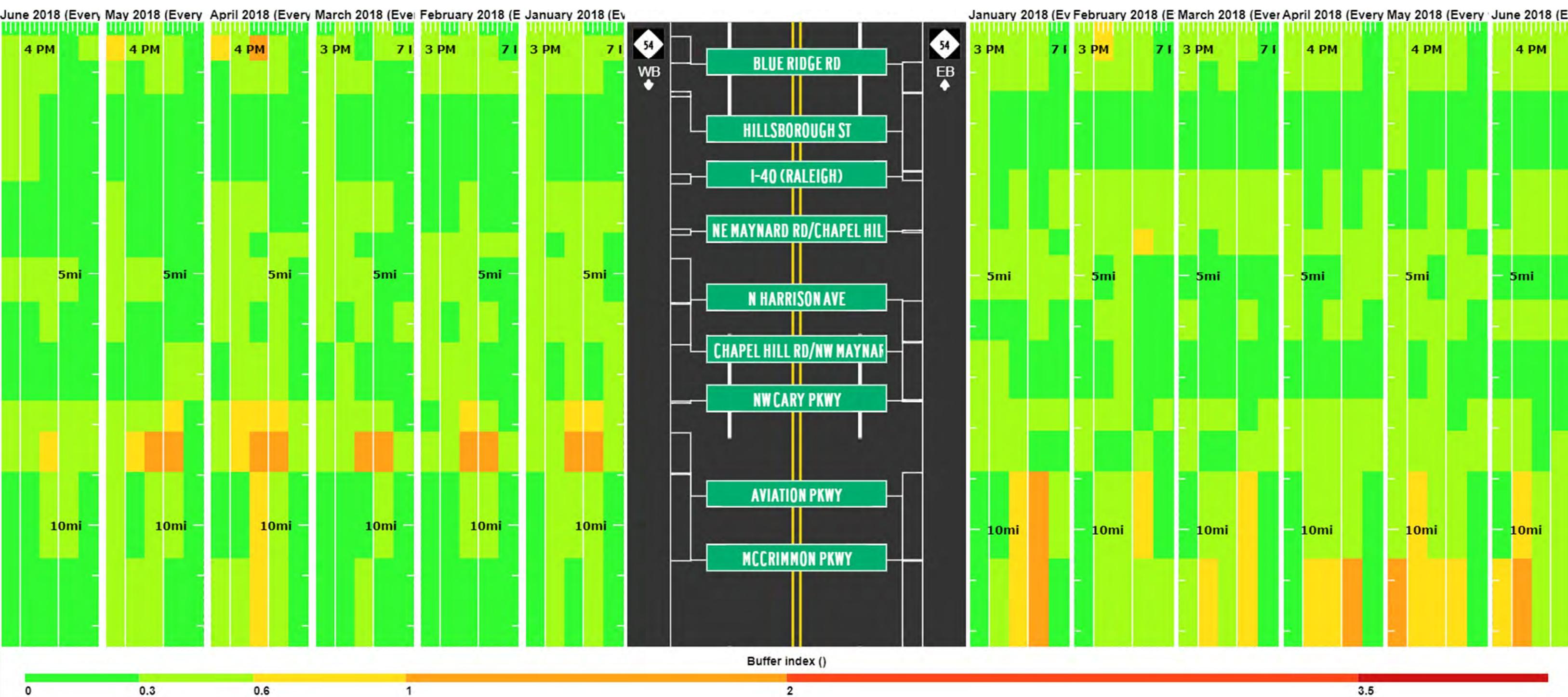
# NC-54 (Morrisville) Buffer Index, AM Peak in Jul-Dec 2018

Buffer index for NC-54 using HERE data



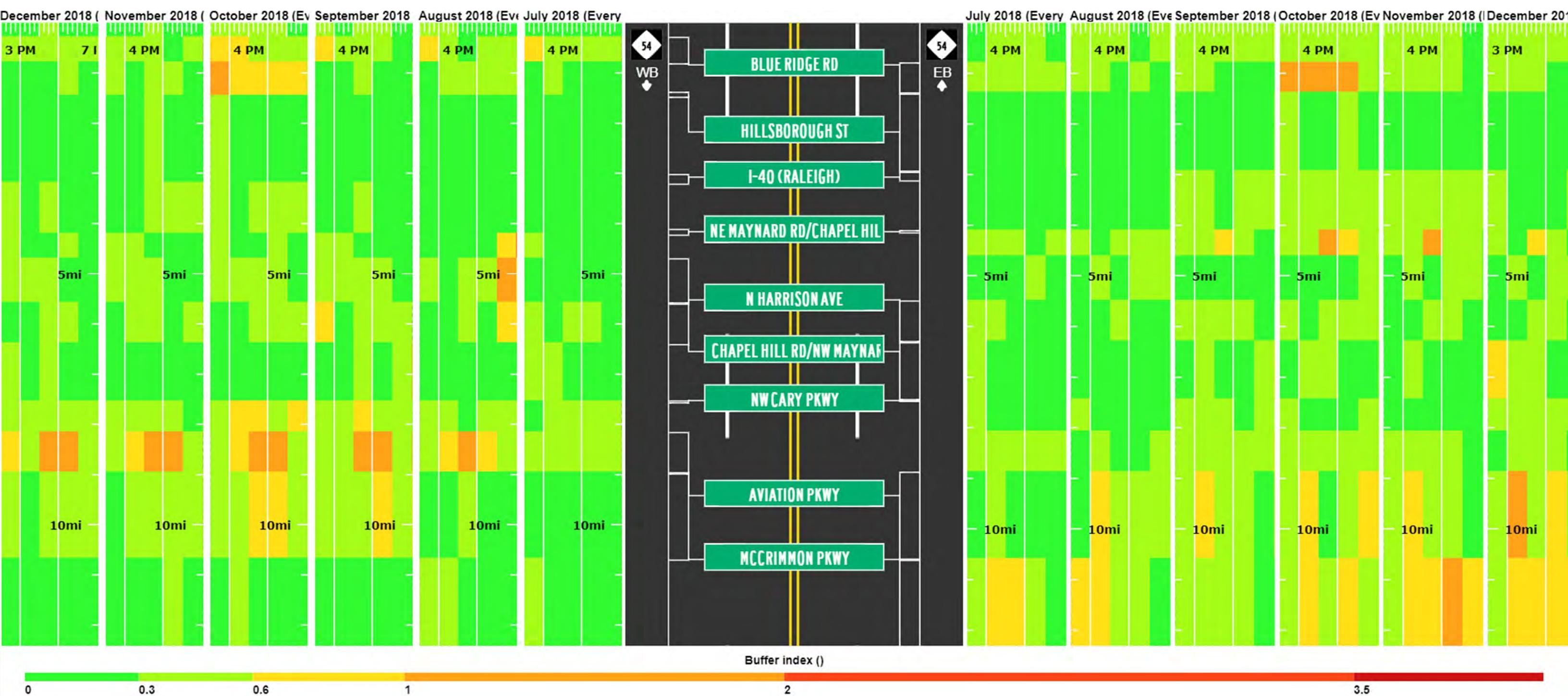
# NC-54 (Morrisville) Buffer Index, PM Peak in Jan-Jun 2018

## Buffer index for NC-54 using HERE data



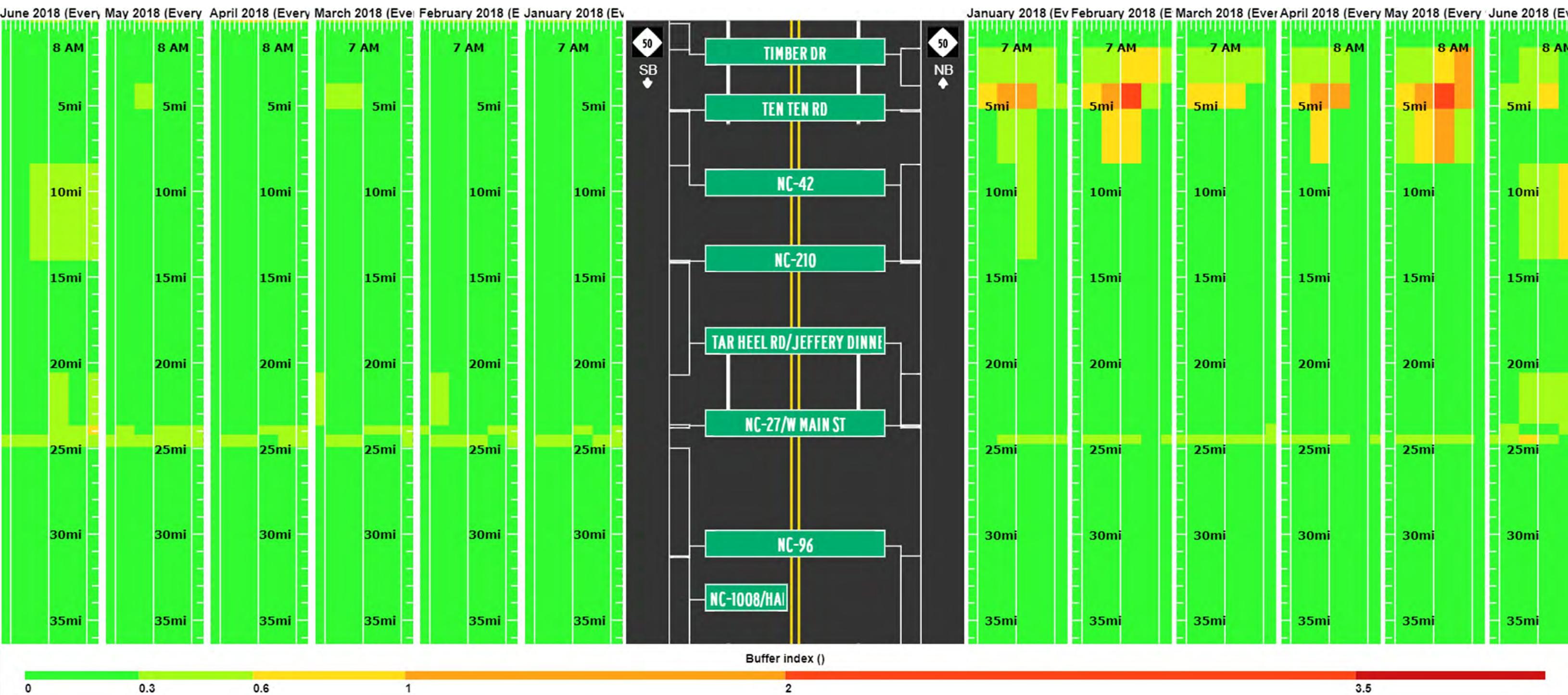
# NC-54 (Morrisville) Buffer Index, PM Peak in Jul-Dec 2018

Buffer index for NC-54 using HERE data



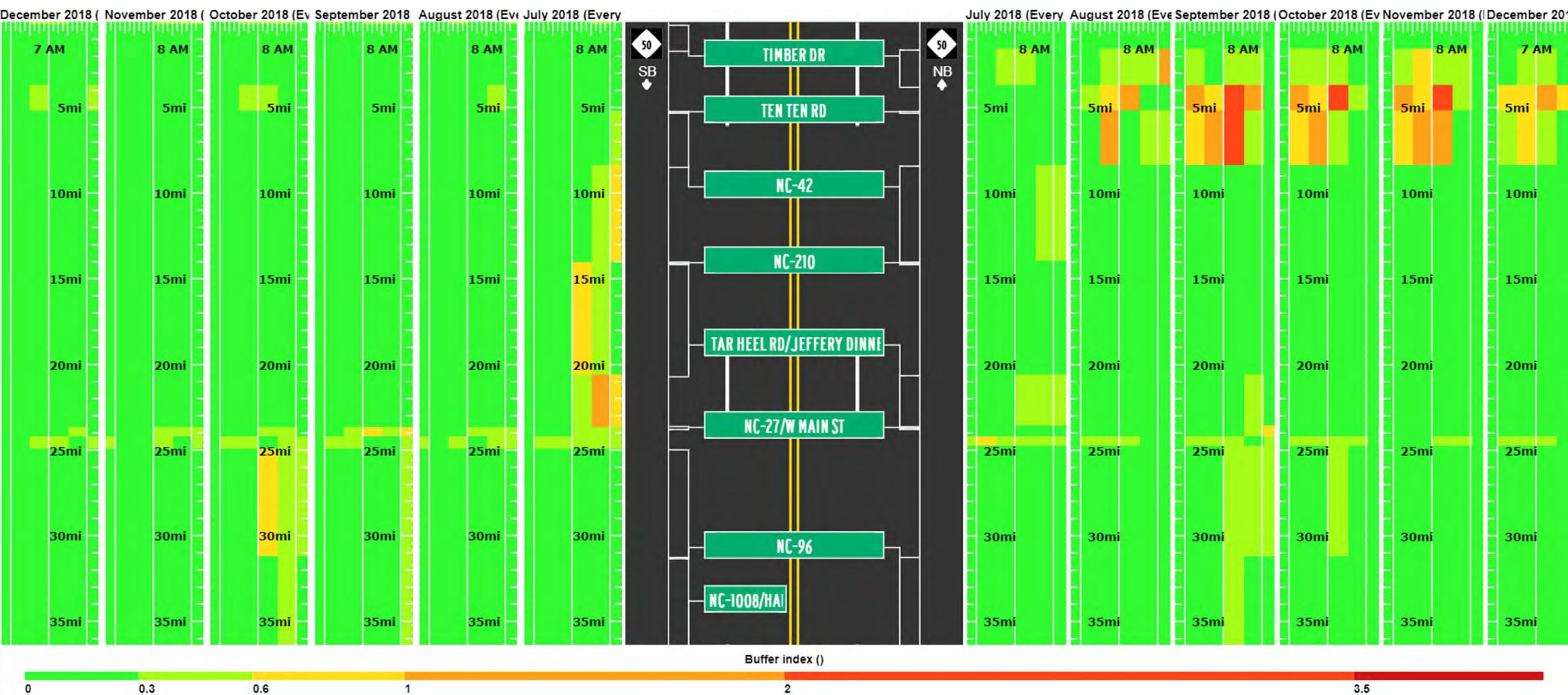
# NC-50 (Garner) Buffer Index, AM Peak in Jan-Jun 2018

Buffer index for NC-50 using HERE data



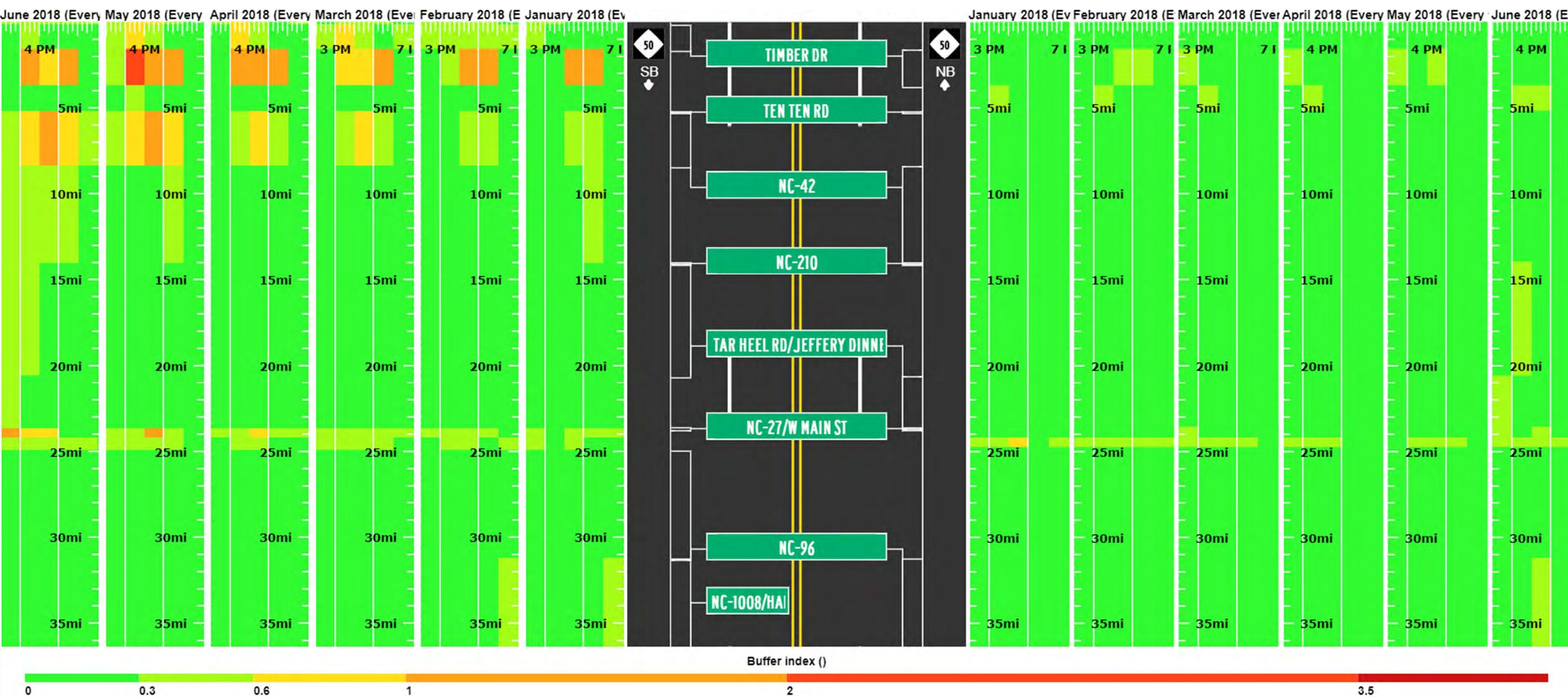
# NC-50 (Garner) Buffer Index, AM Peak in Jul-Dec 2018

Buffer index for NC-50 using HERE data



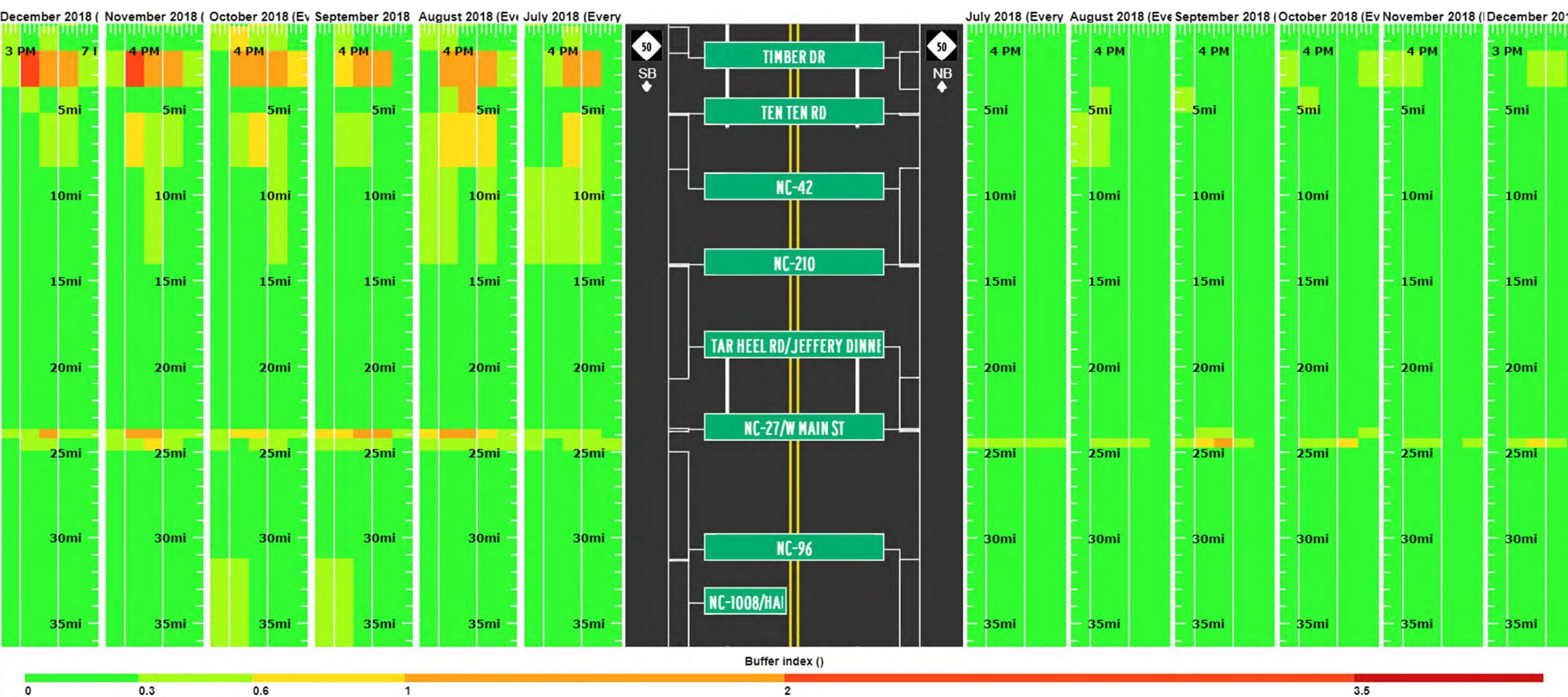
# NC-50 (Garner) Buffer Index, PM Peak in Jan-Jun 2018

Buffer index for NC-50 using HERE data



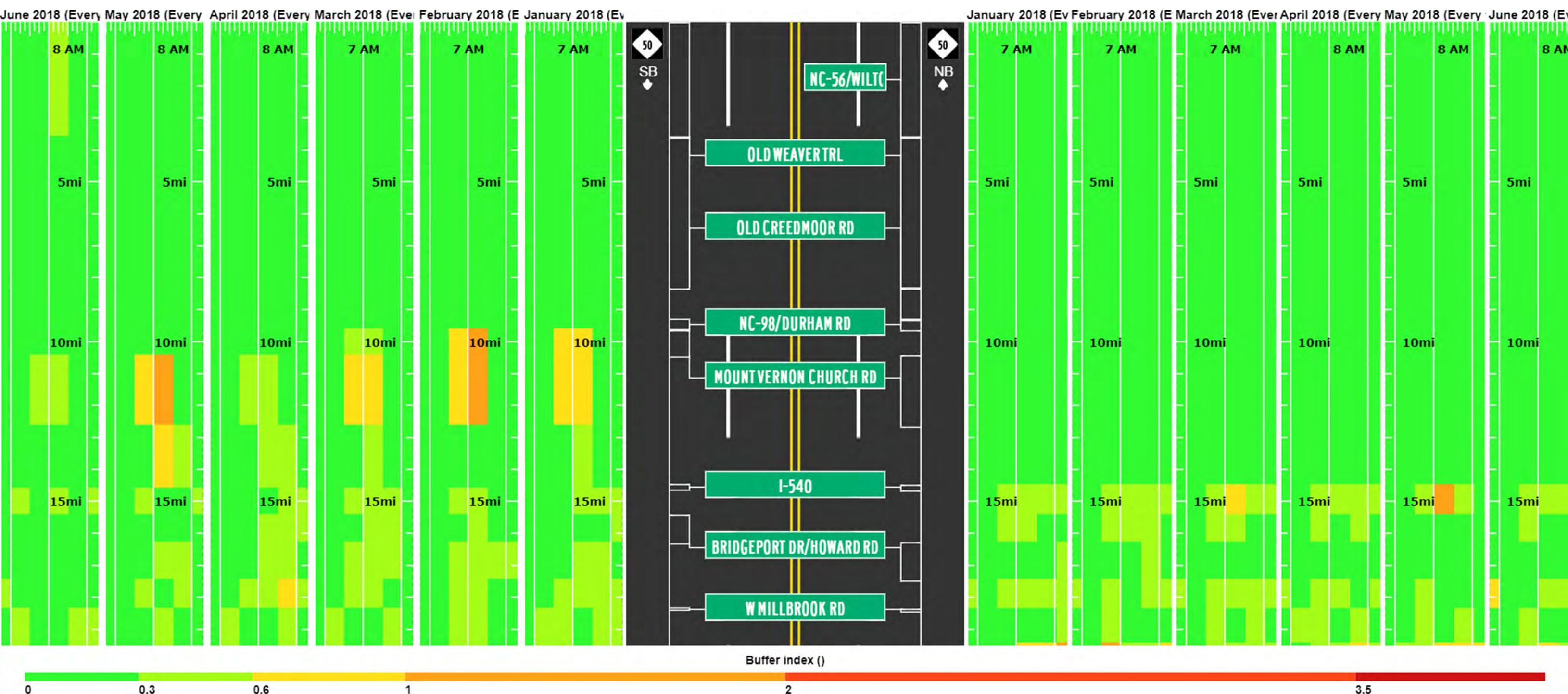
# NC-50 (Garner) Buffer Index, PM Peak in Jul-Dec 2018

Buffer index for NC-50 using HERE data



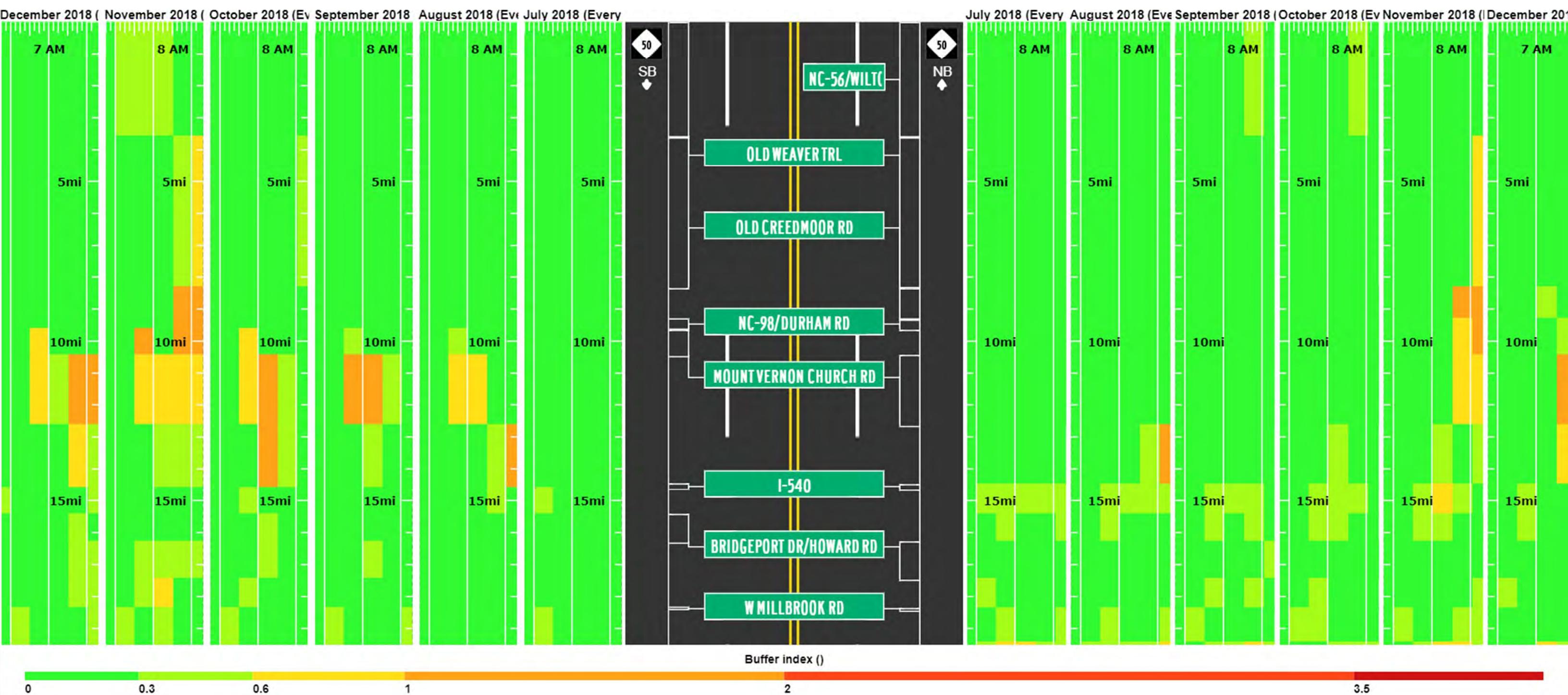
# NC-50 (Creedmoor) Buffer Index, AM Peak in Jan-Jun 2018

Buffer index for NC-50 using HERE data



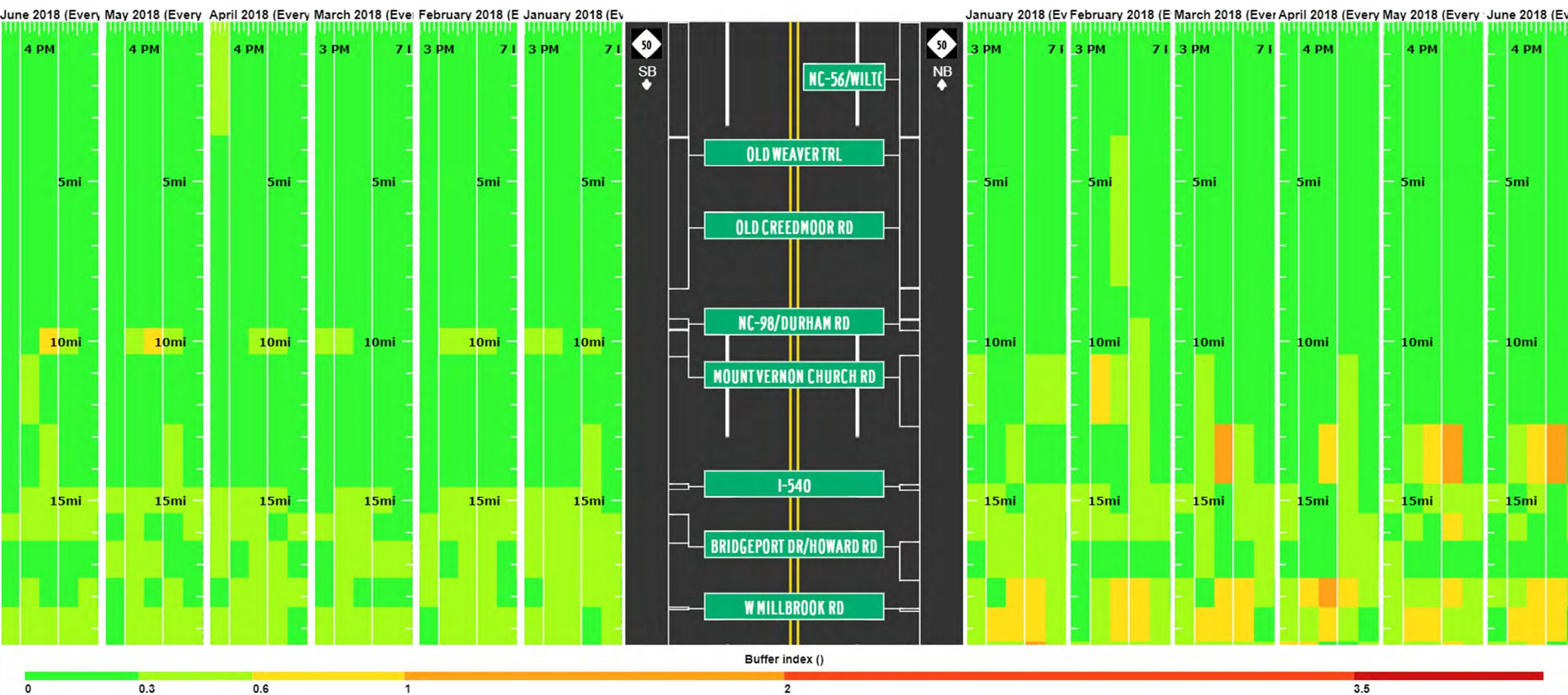
# NC-50 (Creedmoor) Buffer Index, AM Peak in Jul-Dec 2018

Buffer index for NC-50 using HERE data



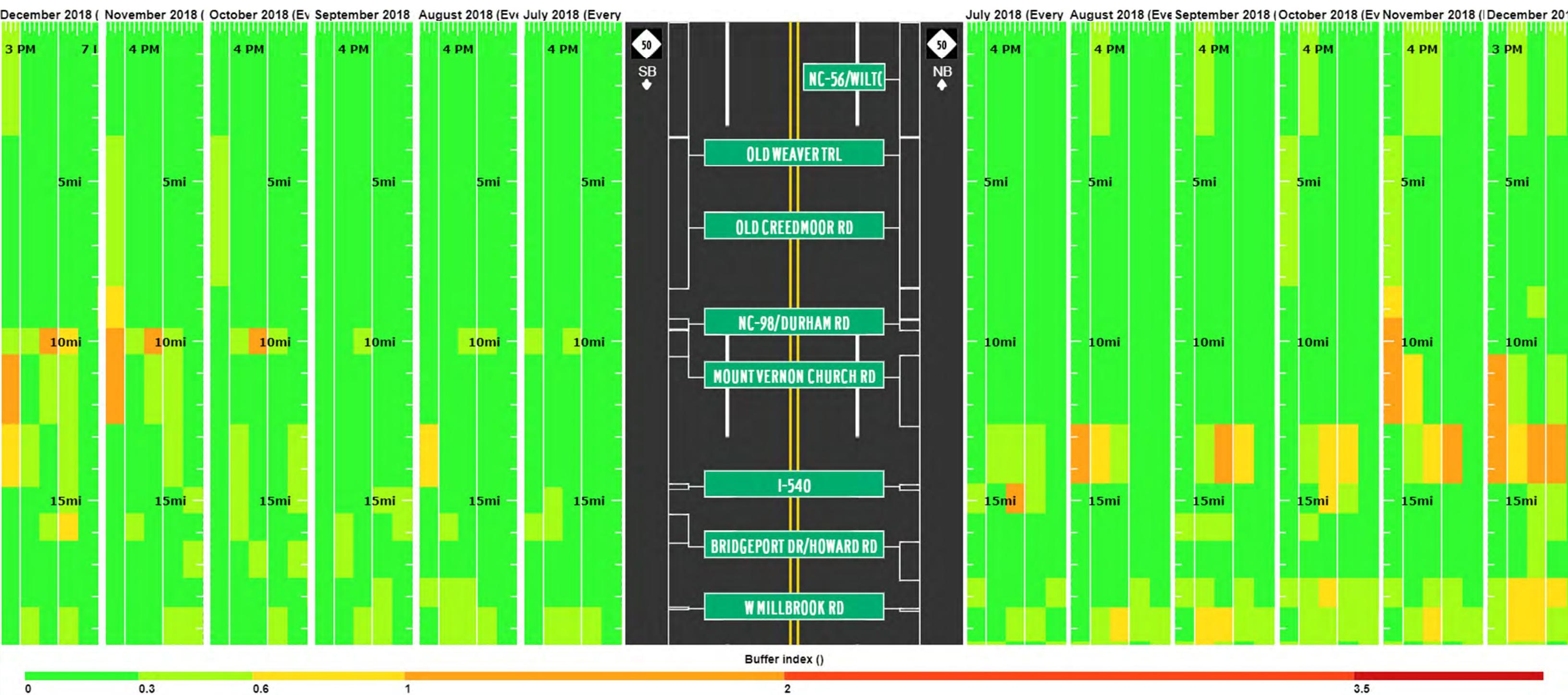
# NC-50 (Creedmoor) Buffer Index, PM Peak in Jan-Jun 2018

## Buffer index for NC-50 using HERE data



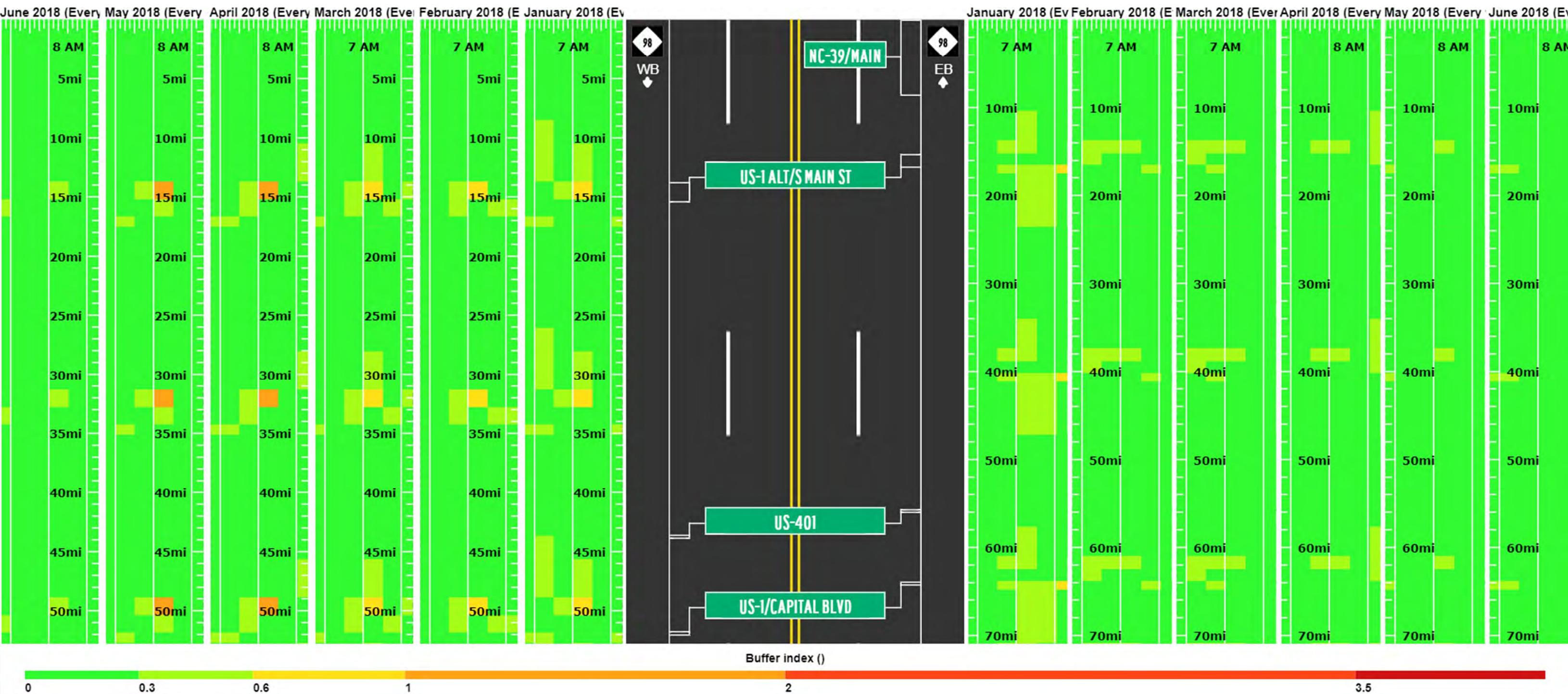
# NC-50 (Creedmoor) Buffer Index, PM Peak Jul-Dec 2018

Buffer index for NC-50 using HERE data



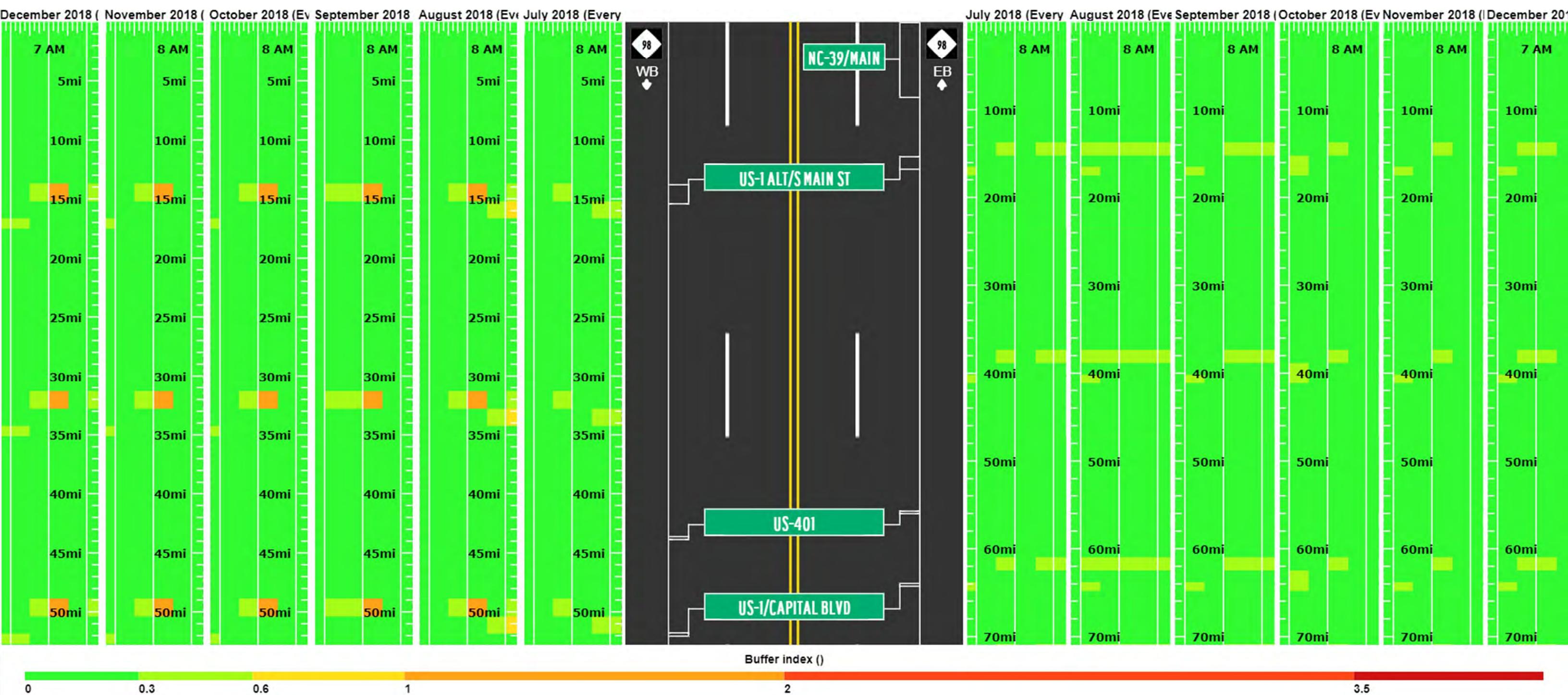
# NC-98 Buffer Index, AM Peak in Jan thru Jun 2018

Buffer index for NC-98, NC-98, and NC-98 using HERE data



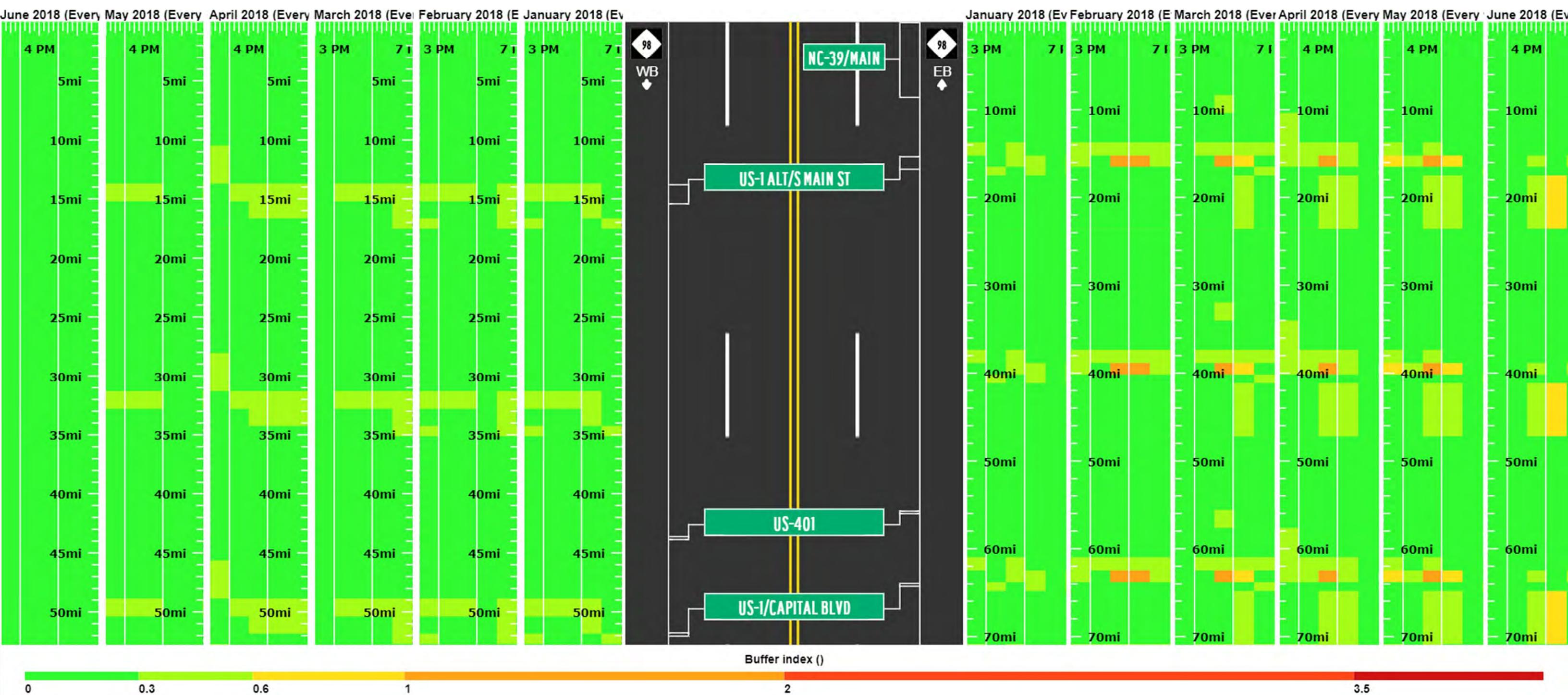
# NC-98 Buffer Index, AM Peak in Jul thru Dec 2018

Buffer index for NC-98, NC-98, and NC-98 using HERE data



# NC-98 Buffer Index, PM Peak in Jan thru Jun 2018

Buffer index for NC-98, NC-98, and NC-98 using HERE data



# NC-98 Buffer Index, PM Peak in Jul thru Dec 2018

Buffer index for NC-98, NC-98, and NC-98 using HERE data

