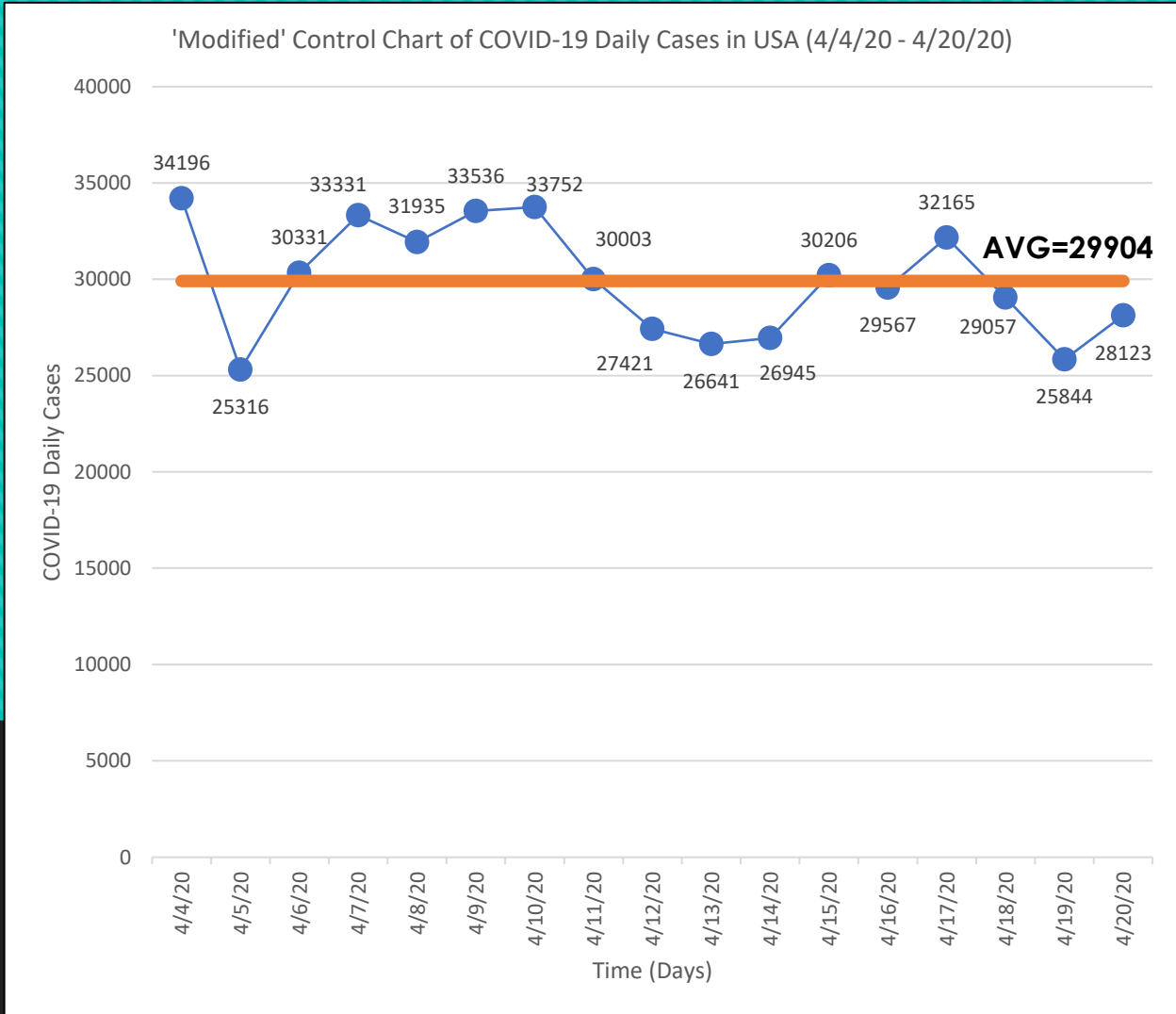


# COVID-19

## 'MODIFIED' Control Chart Analysis

As of Monday 4/20/2020, 5:00PM HST

# USA

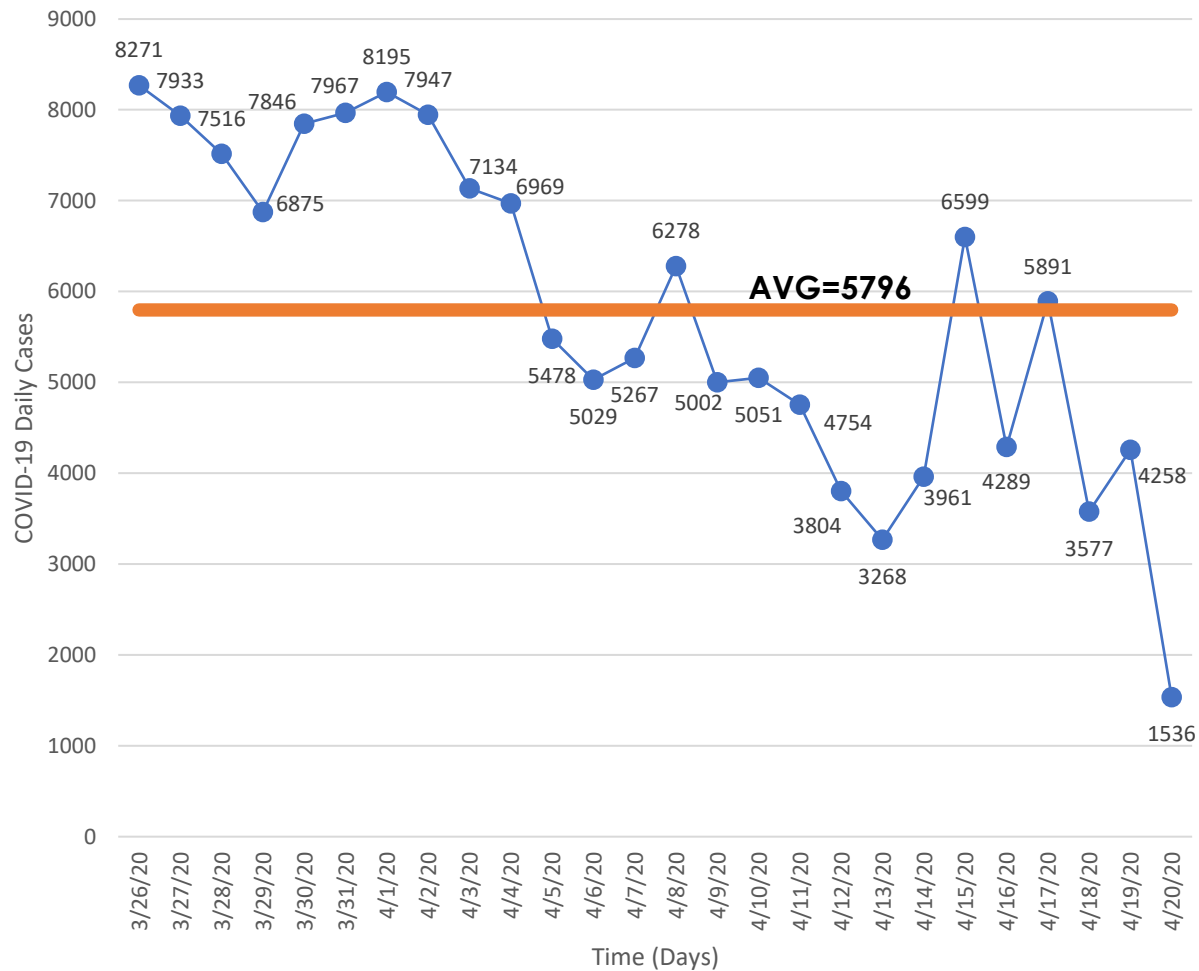


## 'Modified' Control Chart Analysis:

- Two points, out of three successive points, are on the same side of the centerline in Zone A or beyond.
  - The last three points (4/18/20 - 4/20/20) are below the control line, which suggests a good 'out-of-control' pattern for COVID-19 cases in USA.
- Four points, out of five successive points, are on the same side of the centerline in Zone B or beyond.
  - Four points (4/16/20 and 4/18/20 - 4/20/20) are below the control line, which suggests a good 'out-of-control' pattern for COVID-19 cases in USA.

# Spain

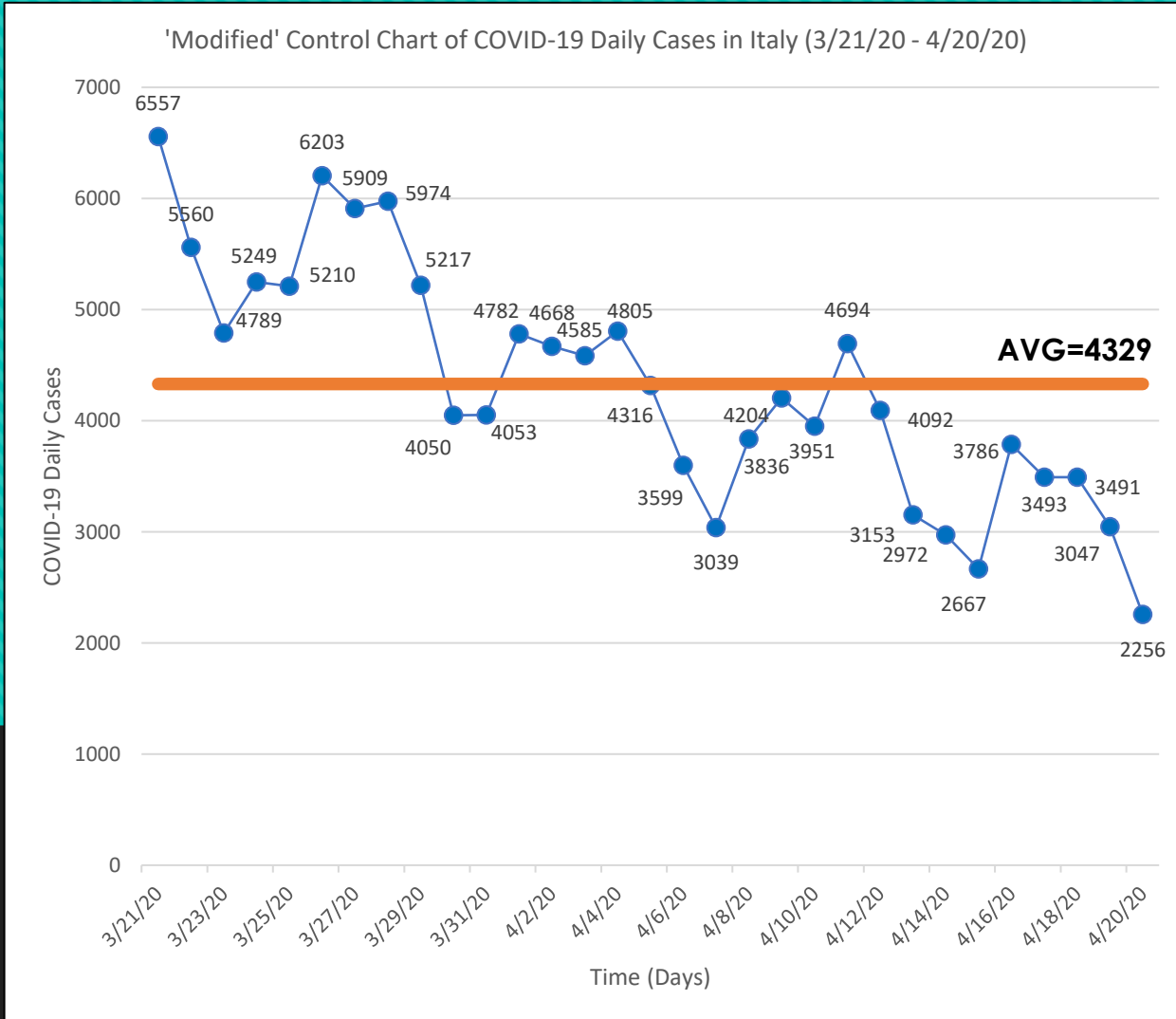
'Modified' Control Chart of COVID-19 Daily Cases in Spain (3/26/20 - 4/20/20)



## 'Modified' Control Chart Analysis:

- Two points, out of three successive points, are on the same side of the centerline in Zone A or beyond.
  - The last three points (4/18/20 - 4/20/20) are below the control line, which suggests a good 'out-of-control' pattern for COVID-19 cases in Spain.
- Four points, out of five successive points, are on the same side of the centerline in Zone B or beyond.
  - Four points (4/16/20 and 4/18/20 - 4/20/20) are all below the control line, which suggests an 'out-of-control' pattern for COVID-19 cases in Spain. A good 'out-of-control' sign.
- Nine successive points are on one side of the centerline.
  - Nine consecutive points (3/26/20 - 4/14/20) are all on one side (above) of the centerline. This was a bad 'out-of-control' pattern.

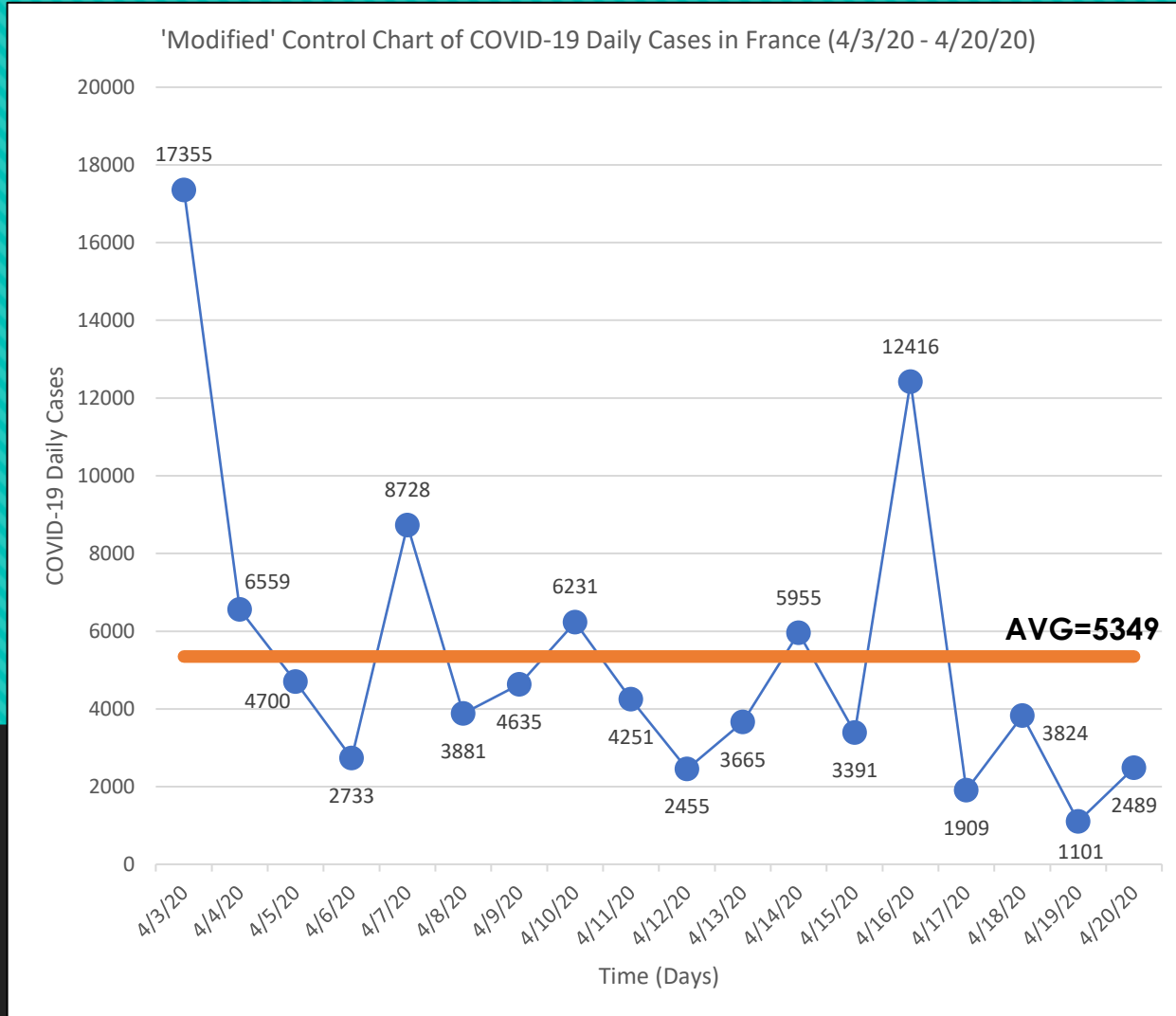
# Italy



## 'Modified' Control Chart Analysis:

- Two points, out of three successive points, are on the same side of the centerline in Zone A or beyond.
  - The last three points (4/18/20 - 4/20/20) are below the control line, which suggests a good 'out-of-control' pattern for COVID-19 cases in Italy. The linear trend line has a remarkable downward slope.
- Four points, out of five successive points, are on the same side of the centerline in Zone B or beyond.
  - The last five points (4/16/20 - 4/20/20) are all below the control line, which suggests an 'out-of-control' pattern for COVID-19 cases in Italy. A good 'out-of-control' sign. The linear trend line has a remarkable downward slope.
- Nine successive points are on one side of the centerline.
  - The nine consecutive points (4/12/20 - 4/20/20) are all on one side (below) of the centerline. This good 'out-of-control' pattern indicates that the daily COVID-19 cases in Italy are stabilizing in a positive direction.

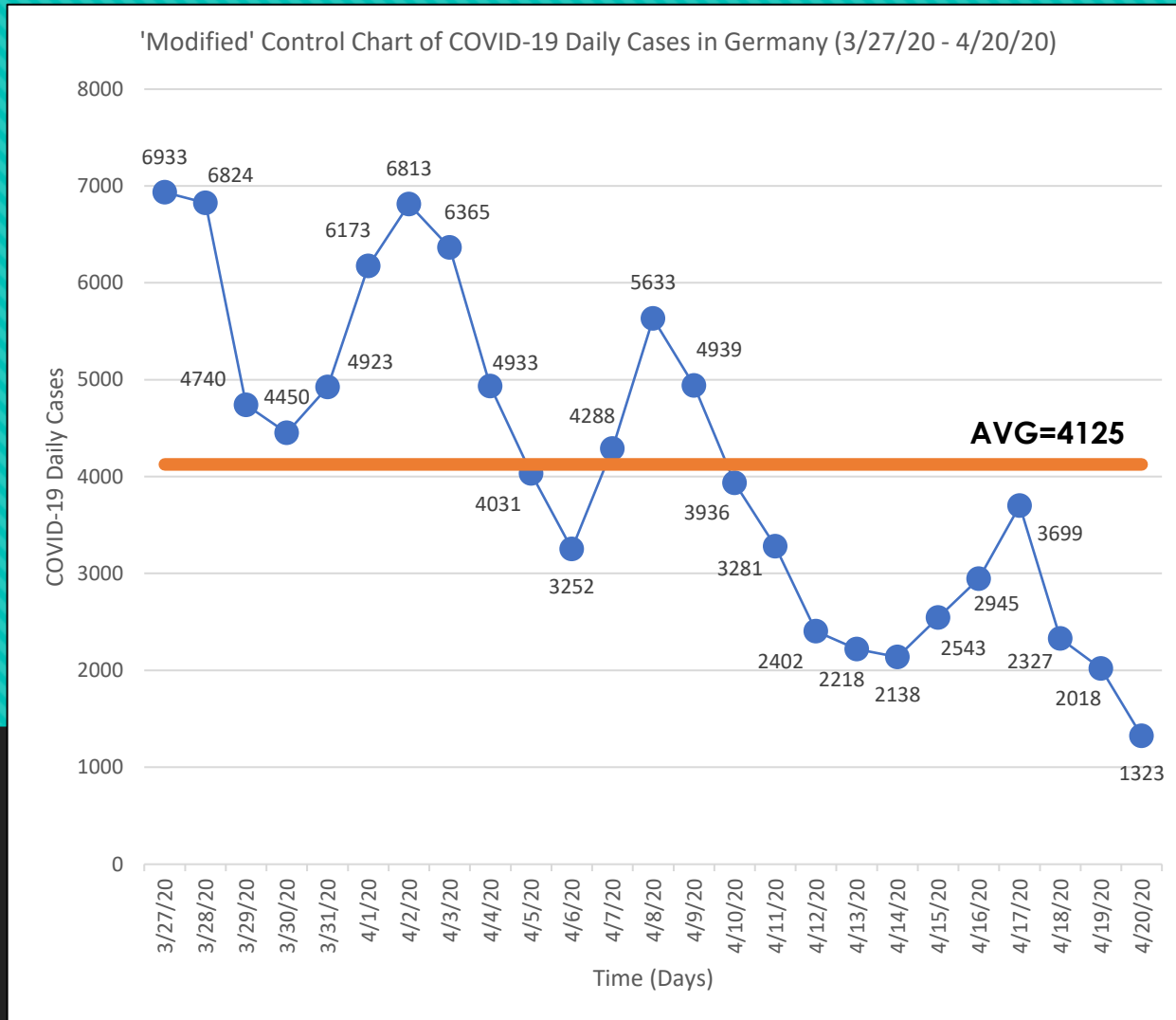
# France



## 'Modified' Control Chart Analysis:

- Two points, out of three successive points, are on the same side of the centerline in Zone A or beyond.
  - The last three points (4/18/20 - 4/20/20) are below the control line, which suggests a good 'out-of-control' pattern for COVID-19 cases in France.
- Four points, out of five successive points, are on the same side of the centerline in Zone B or beyond.
  - Four points (4/17/20 - 4/20/20) are all below the control line, which suggests an 'out-of-control' pattern for COVID-19 cases in France. A good 'out-of-control' sign.

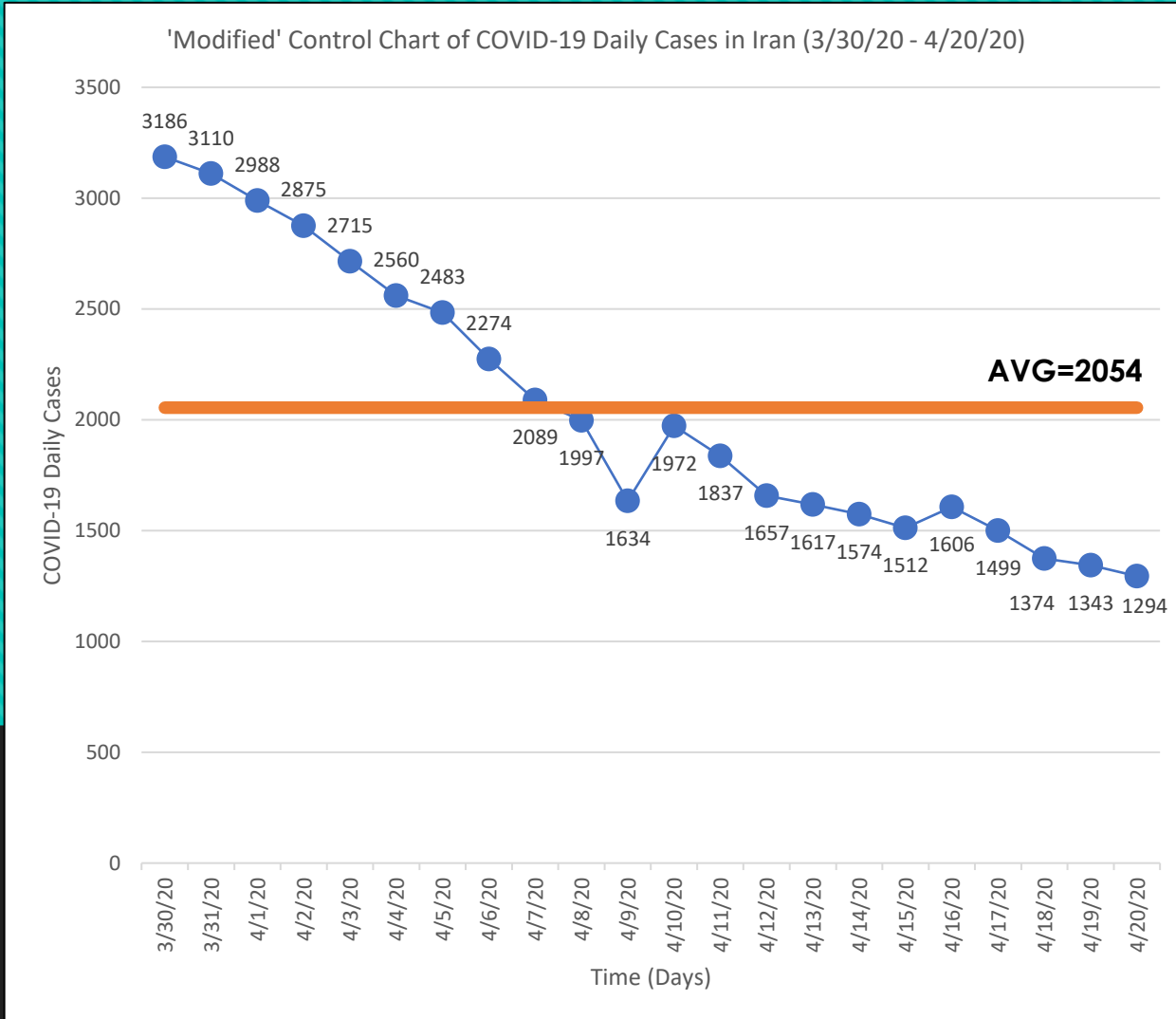
# Germany



## 'Modified' Control Chart Analysis:

- Two points, out of three successive points, are on the same side of the centerline in Zone A or beyond.
  - The last three points (4/18/20 - 4/20/20) are below the control line, which suggests a good 'out-of-control' pattern for COVID-19 cases in Germany. The linear trend line has a remarkable downward slope.
- Four points, out of five successive points, are on the same side of the centerline in Zone B or beyond.
  - The last five points (4/16/20 - 4/20/20) are all below the control line, which suggests an 'out-of-control' pattern for COVID-19 cases in Germany. A good 'out-of-control' sign. The linear trend line has a downward slope.
- Nine successive points are on one side of the centerline.
  - The nine consecutive points (4/12/20 - 4/20/20) are all on one side (below) of the centerline. This good 'out-of-control' pattern indicates that the daily COVID-19 cases in Germany are stabilizing in a positive direction.
- There are six consecutive points, increasing or decreasing.
  - There are six consecutive points (4/8/20 - 4/15/20) decreasing which indicates a good 'out-of-control' sign.

# Iran

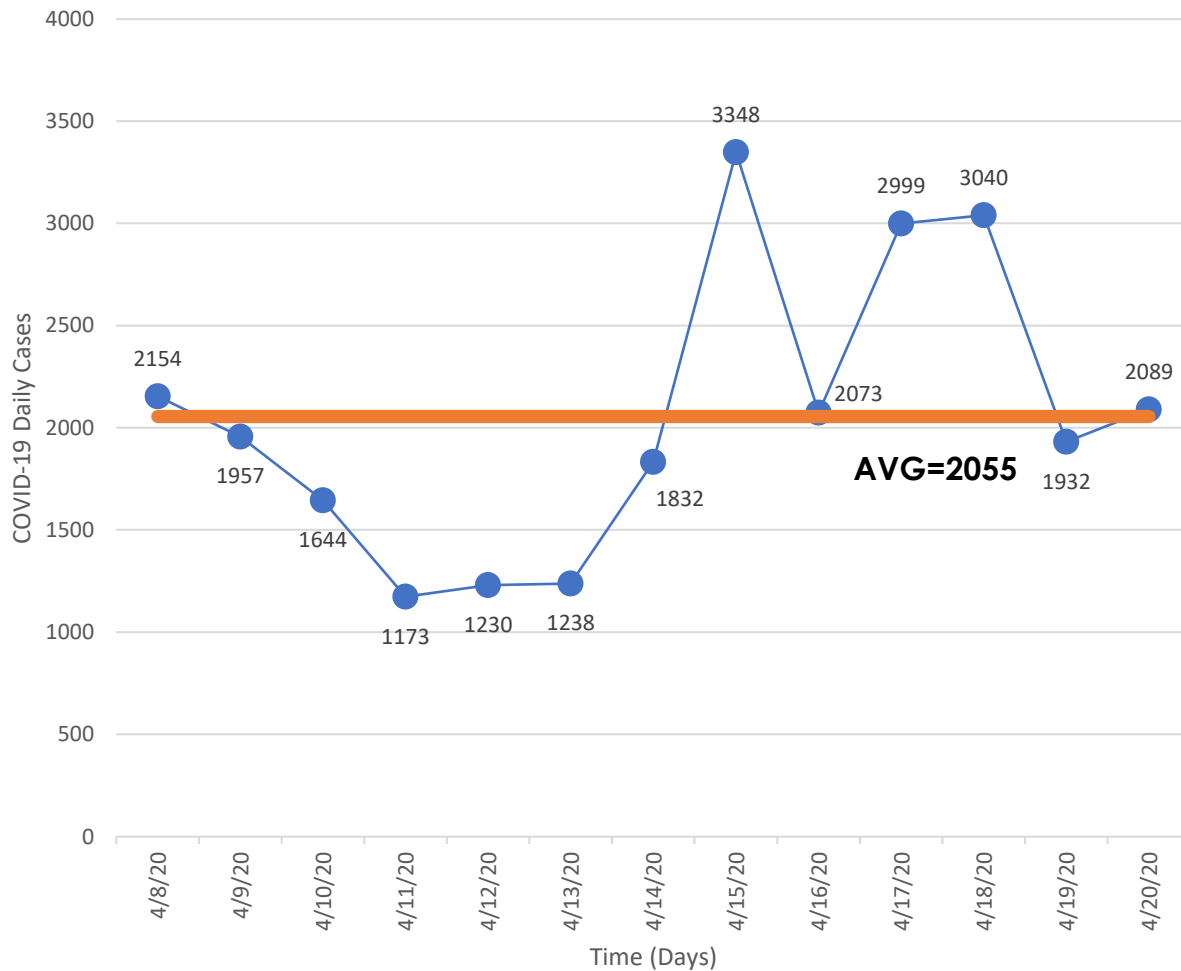


## 'Modified' Control Chart Analysis:

- Two points, out of three successive points, are on the same side of the centerline in Zone A or beyond.
  - The last three points (4/18/20 - 4/20/20) are below the control line, which suggests a good 'out-of-control' pattern for COVID-19 cases in Iran. The linear trend line has a remarkable downward slope since 3/30/20.
- Four points, out of five successive points, are on the same side of the centerline in Zone B or beyond.
  - The last five points (4/16/20 - 4/20/20) are all below the control line, which suggests an 'out-of-control' pattern for COVID-19 cases in Iran. A good 'out-of-control' sign. The linear trend line has a downward slope.
- Nine successive points are on one side of the centerline.
  - The nine consecutive points (4/12/20 - 4/20/20) are all on one side (below) of the centerline. This good 'out-of-control' pattern indicates that the daily COVID-19 cases in Iran are stabilizing in a positive direction.
- There are six consecutive points, increasing or decreasing.
  - Six consecutive points (4/3/20 - 4/9/20) are decreasing, which indicates a good 'out-of-control' sign.

# Brazil

'Modified' Control Chart of COVID-19 Daily Cases in Brazil (4/8/20 - 4/20/20)

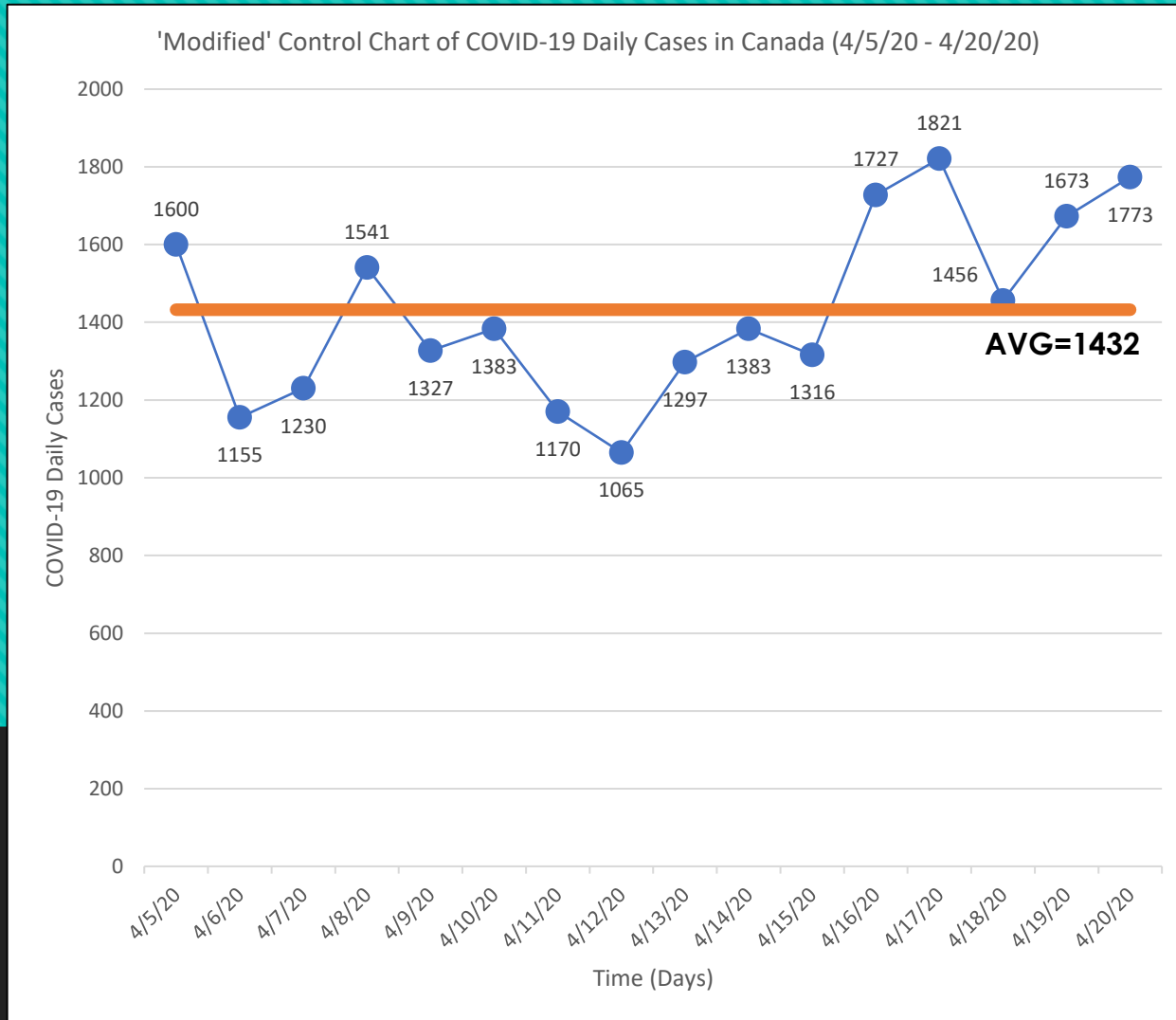


## 'Modified' Control Chart Analysis:

- Two points, out of three successive points, are on the same side of the centerline in Zone A or beyond.
  - Two points (4/18/20 and 4/20/20) are all above the control line, which suggests a bad 'out-of-control' pattern for COVID-19 cases in Brazil.
- Four points, out of five successive points, are on the same side of the centerline in Zone B or beyond.
  - Four points (4/16/20 - 4/18/20 and 4/19/20) are all above the control line, which indicates a bad 'out-of-control' pattern for COVID-19 cases in Brazil.



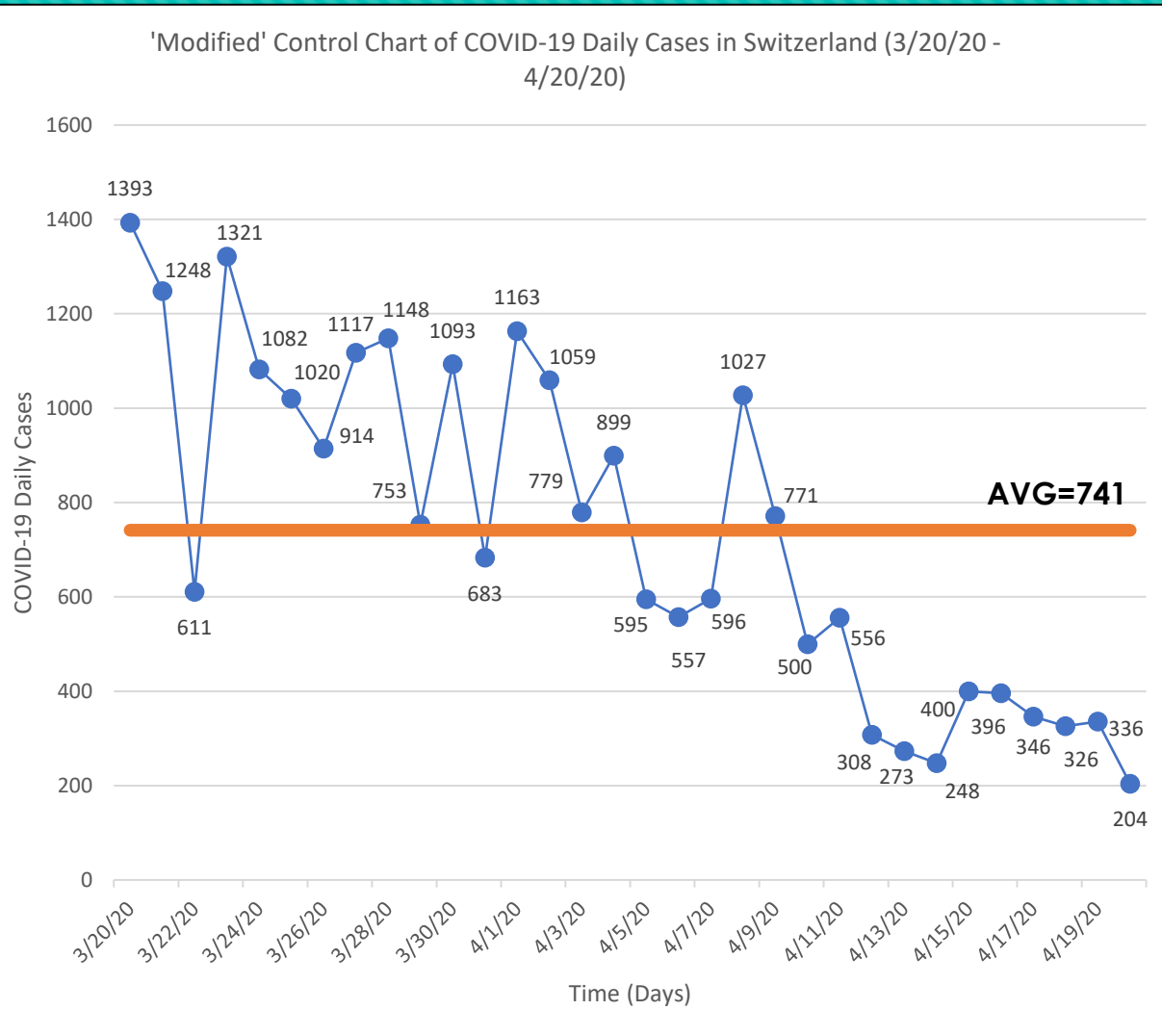
# Canada



## 'Modified' Control Chart Analysis:

- Two points, out of three successive points, are on the same side of the centerline in Zone A or beyond.
  - The last three points (4/18/20 - 4/20/20) are above the control line, which suggests a bad 'out-of-control' pattern for COVID-19 cases in Canada.
- Four points, out of five successive points, are on the same side of the centerline in Zone B or beyond.
  - The last five points (4/16/20 - 4/20/20) are all above the control line, which suggests a bad 'out-of-control' pattern for COVID-19 cases in Canada.

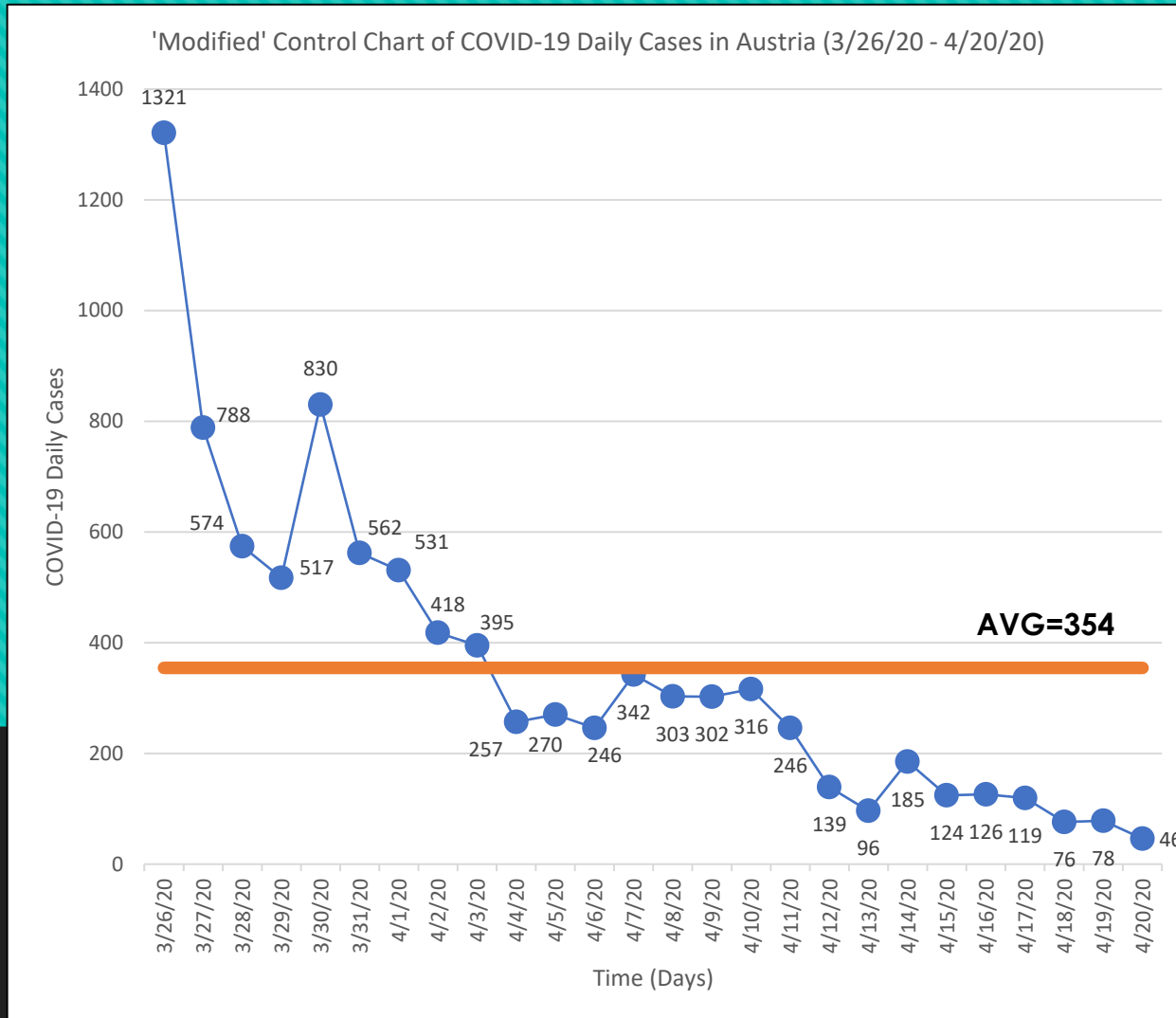
# Switzerland



## 'Modified' Control Chart Analysis:

- Two points, out of three successive points, are on the same side of the centerline in Zone A or beyond.
  - The last three points (4/18/20 - 4/20/20) are below the control line, which suggests a good 'out-of-control' pattern for COVID-19 cases in Switzerland. The linear trend line has a downward slope.
- Four points, out of five successive points, are on the same side of the centerline in Zone B or beyond.
  - The last five points (4/16/20 - 4/20/20) are all below the control line, which suggests an 'out-of-control' pattern for COVID-19 cases in Switzerland. A good 'out-of-control' sign.
- Nine successive points are on one side of the centerline.
  - The nine consecutive points (4/12/20 - 4/20/20) are all on one side (below) of the centerline. This is a good 'out-of-control' pattern and indicates that the COVID-19 cases in Switzerland are stabilizing in a positive direction.

# Austria

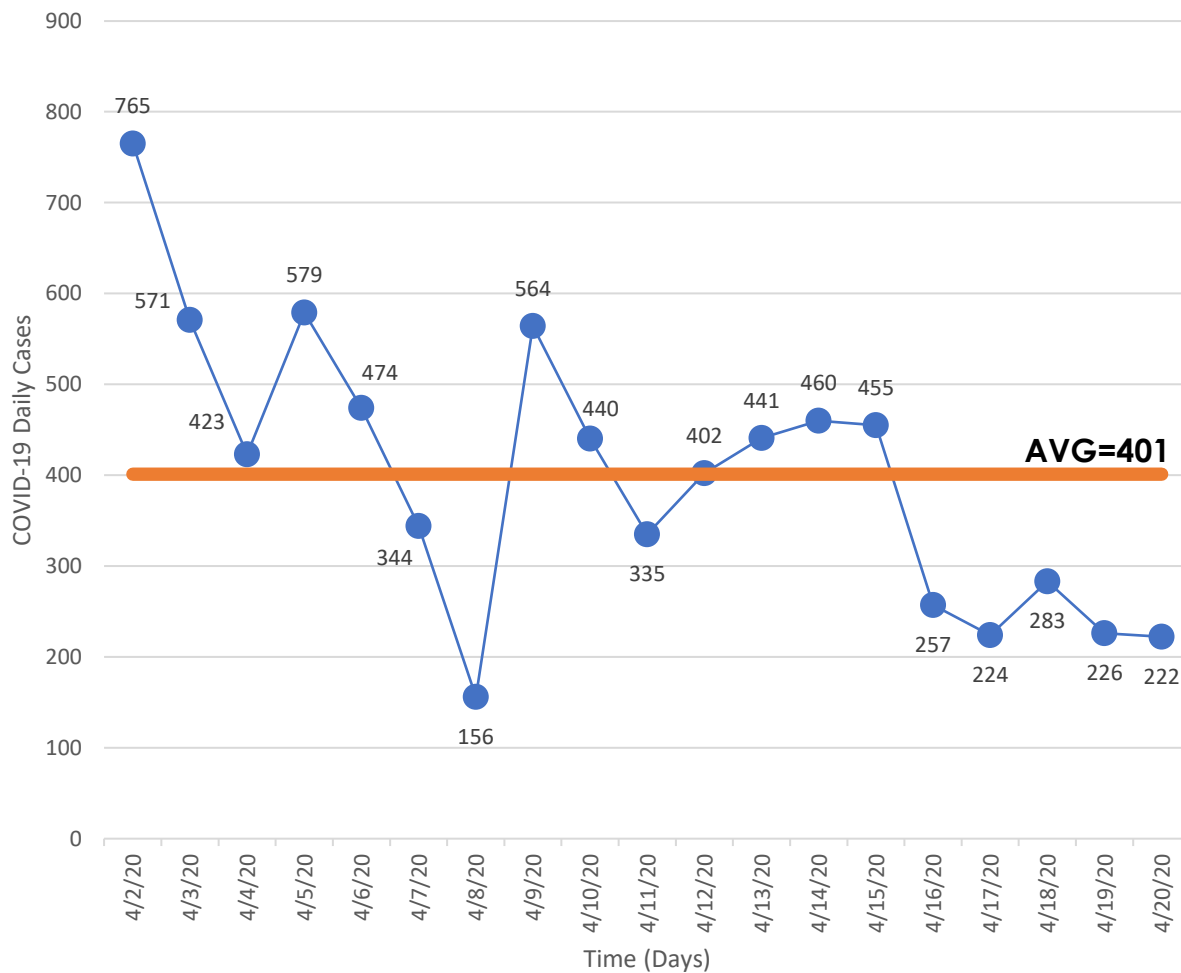


## 'Modified' Control Chart Analysis:

- Two points, out of three successive points, are on the same side of the centerline in Zone A or beyond.
  - The last three points (4/18/20 - 4/20/20) are below the control line, which suggests a good 'out-of-control' pattern for COVID-19 cases in Austria.
- Four points, out of five successive points, are on the same side of the centerline in Zone B or beyond.
  - The last five points (4/16/20 - 4/20/20) are all below the control line, which suggests an 'out-of-control' pattern for COVID-19 cases in Austria. A good 'out-of-control' sign.
- Nine successive points are on one side of the centerline.
  - Nine consecutive points (4/12/20 - 4/20/20) are all on one side (below) of the centerline. This good 'out-of-control' pattern suggests that the daily COVID-19 cases in Austria are stabilizing in a positive direction.

# Israel

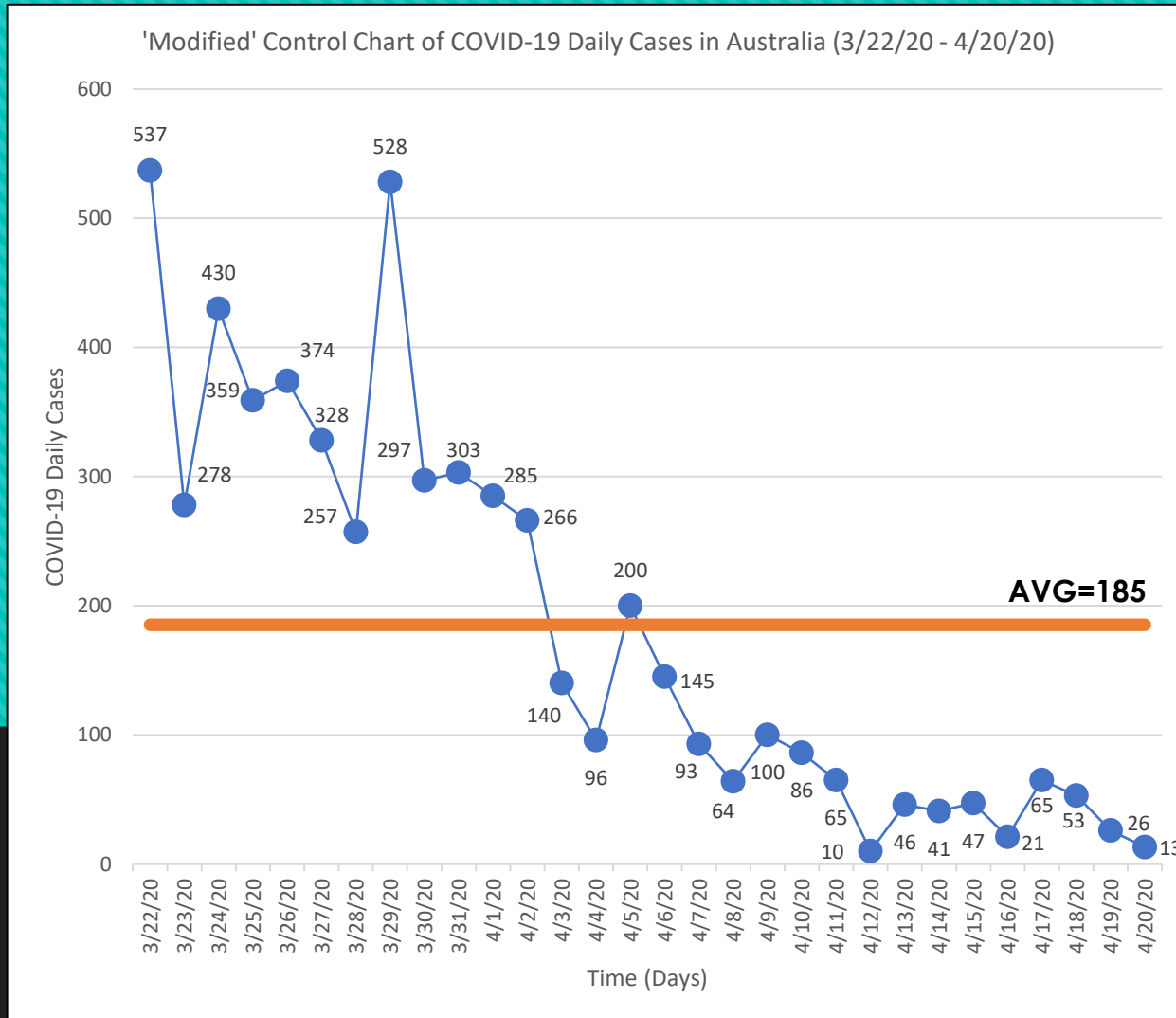
'Modified' Control Chart of COVID-19 Daily Cases in Israel (4/2/20 - 4/20/20)



## 'Modified' Control Chart Analysis:

- Two points, out of three successive points, are on the same side of the centerline in Zone A or beyond.
  - The last three points (4/18/20 – 4/20/20) are below the control line, which suggests a good 'out-of-control' pattern for COVID-19 cases in Israel.
- Four points, out of five successive points, are on the same side of the centerline in Zone B or beyond.
  - The last five points (4/16/20 – 4/20/20) are all below the control line, which suggests an 'out-of-control' pattern for COVID-19 cases in Israel. A good 'out-of-control' sign.

# Australia



## 'Modified' Control Chart Analysis:

- Two points, out of three successive points, are on the same side of the centerline in Zone A or beyond.
  - The last three points (4/18/20 - 4/20/20) are below the control line, which suggests a good 'out-of-control' pattern for COVID-19 cases in Australia.
- Four points, out of five successive points, are on the same side of the centerline in Zone B or beyond.
  - The last five points (4/16/20 - 4/20/20) are all below the control line, which suggests an 'out-of-control' pattern for COVID-19 cases in Australia. A good 'out-of-control' sign. Also, a remarkable linear trend line with a downward slope can be observed from 3/22/20.
- Nine successive points are on one side of the centerline.
  - Nine consecutive points (4/12/20 - 4/20/20) are all on one side (below) of the centerline. This good 'out-of-control' pattern suggests that the daily COVID-19 cases in Australia are stabilizing in a positive direction.