# Time series run chart

TREND ANALYSIS IN POWER BI
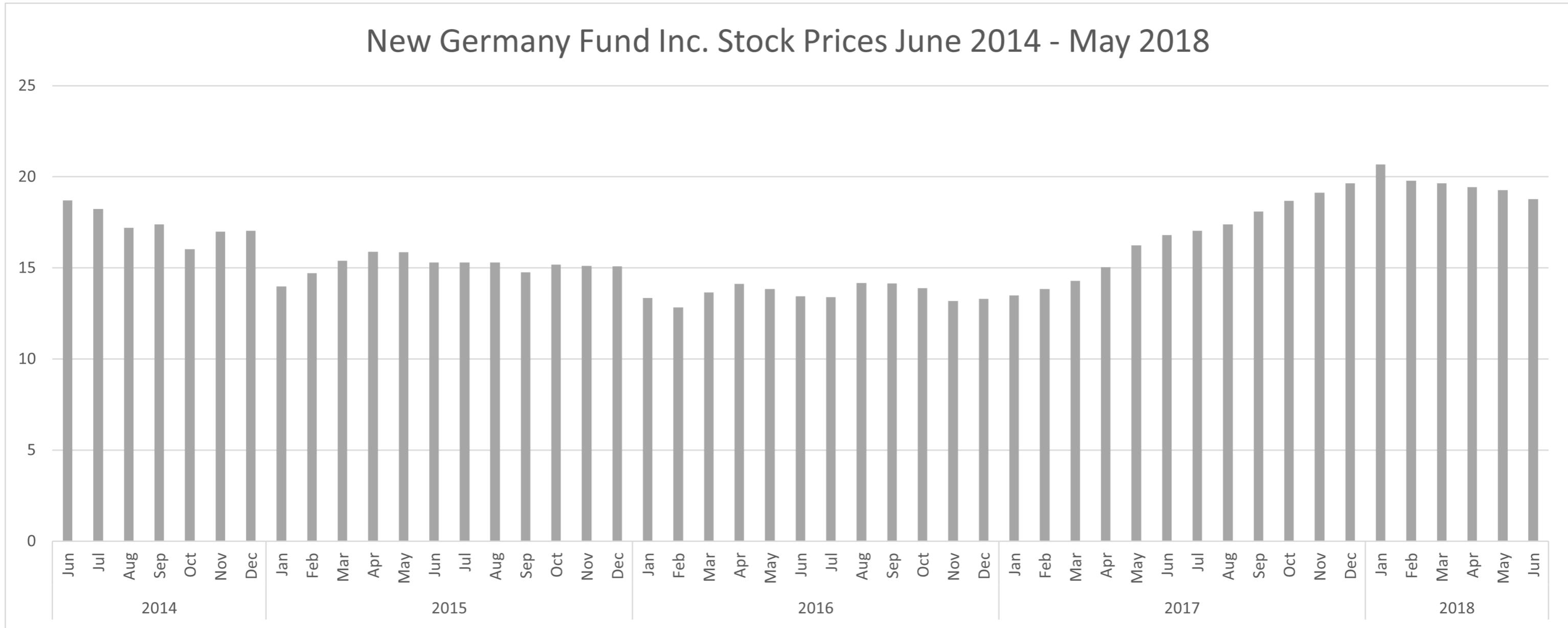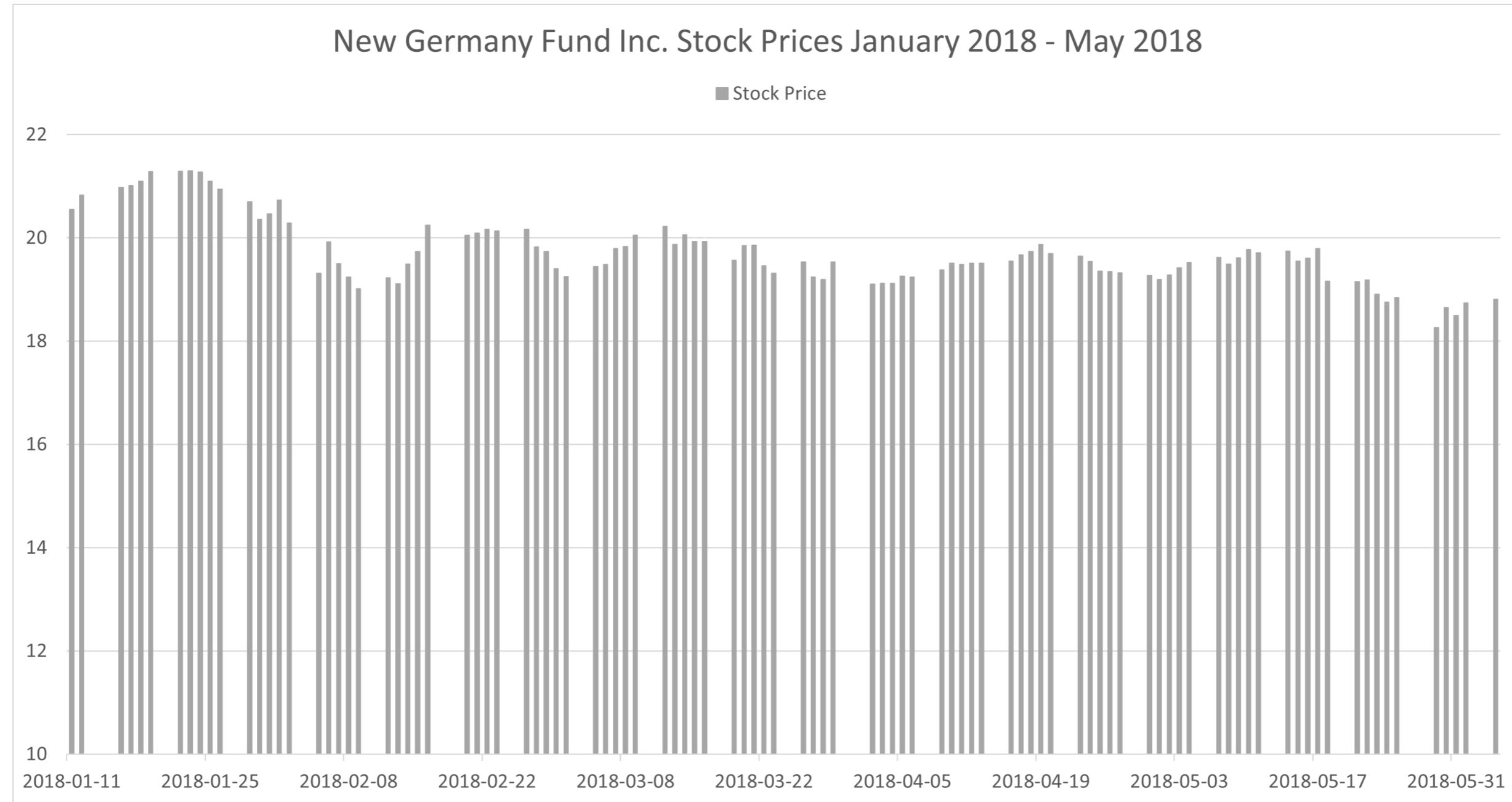
Jacob H. Marquez
Data Scientist at Microsoft

datacamp

Visualizing a time series

New Germany Fund Inc. Stock Prices June 2014 - May 2018

Visualizing a time series

New Germany Fund Inc. Stock Prices June 2014 - May 2018

Visualizing a time series

New Germany Fund Inc. Stock Prices January 2018 - May 2018

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What is a run chart?


New Germany Fund Inc. Stock Prices June 2014 - May 2018

—— Stock Price
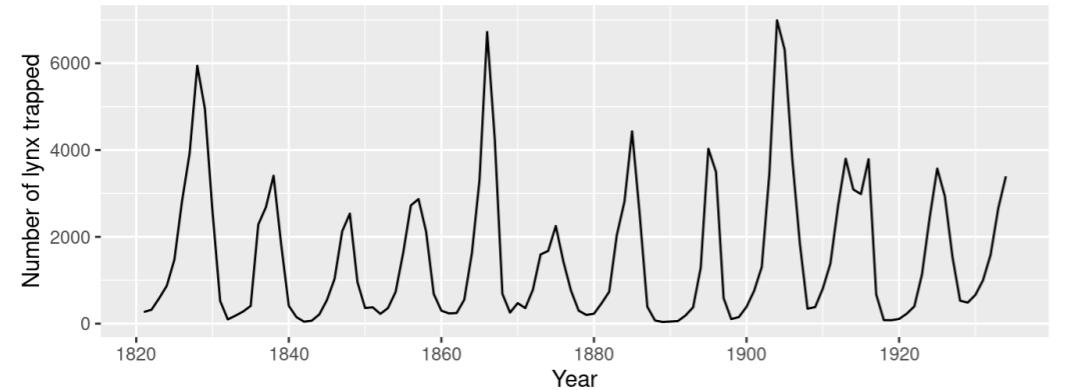
Patterns in a time series
Cyclical
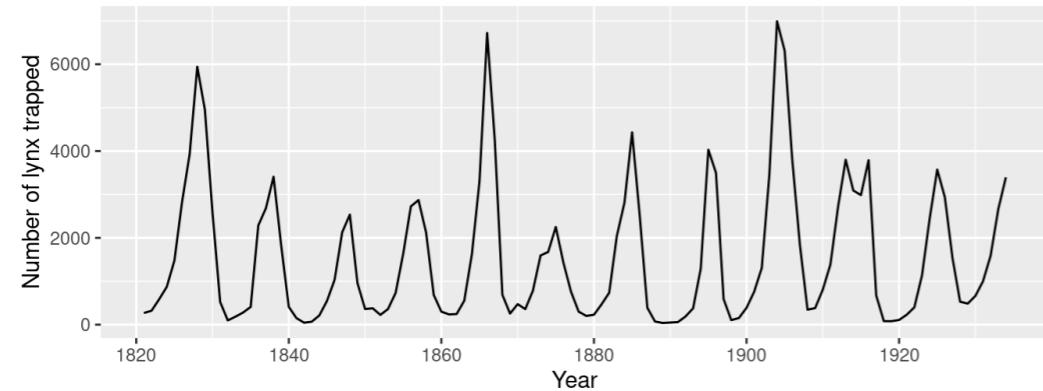
- Rise and fall patterns

- No fixed time period

- Pattern typically longer than a year in length
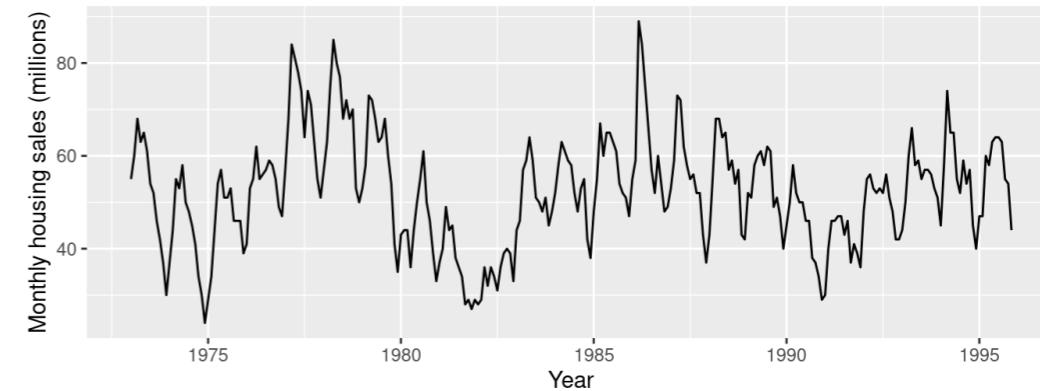
- Less predictable

Patterns in a time series
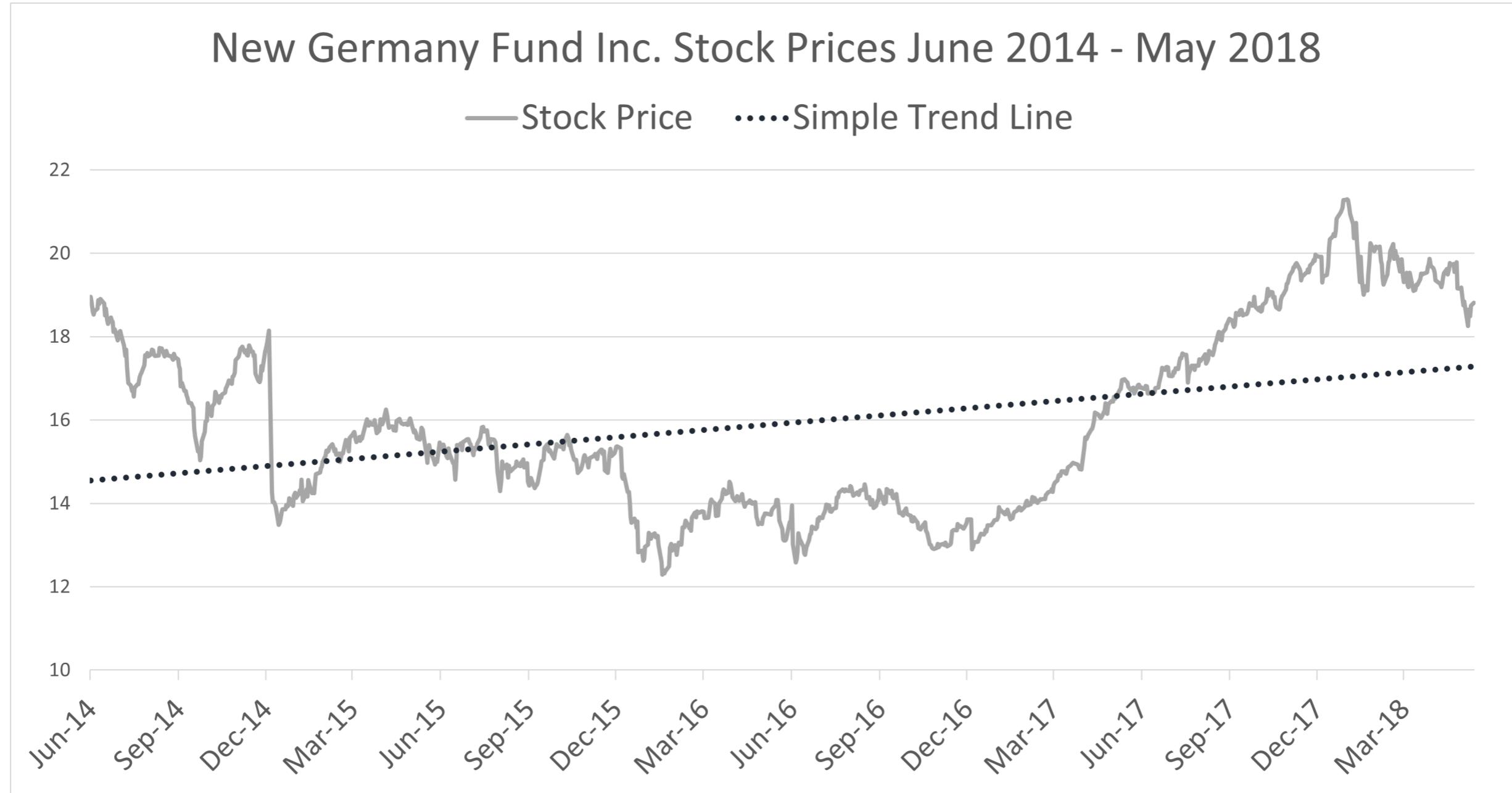
Cyclical

- Rise and fall patterns

- No fixed time period

- Pattern typically longer than a year in length

- Less predictable

Seasonality
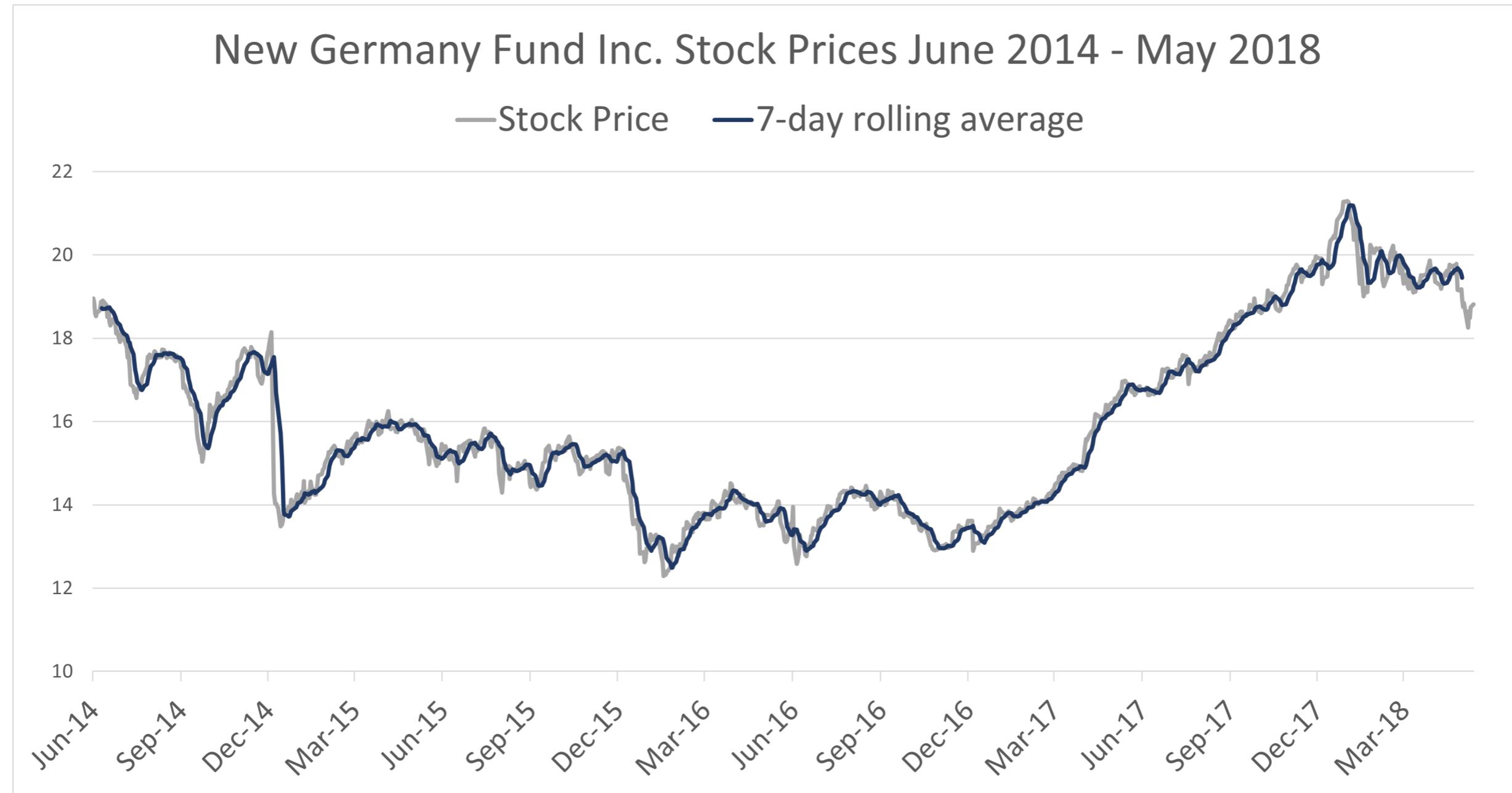
- Pattern is influenced by the season (ex. holiday spending)

- Fixed time periods

- Pattern typically occurs over less than a year
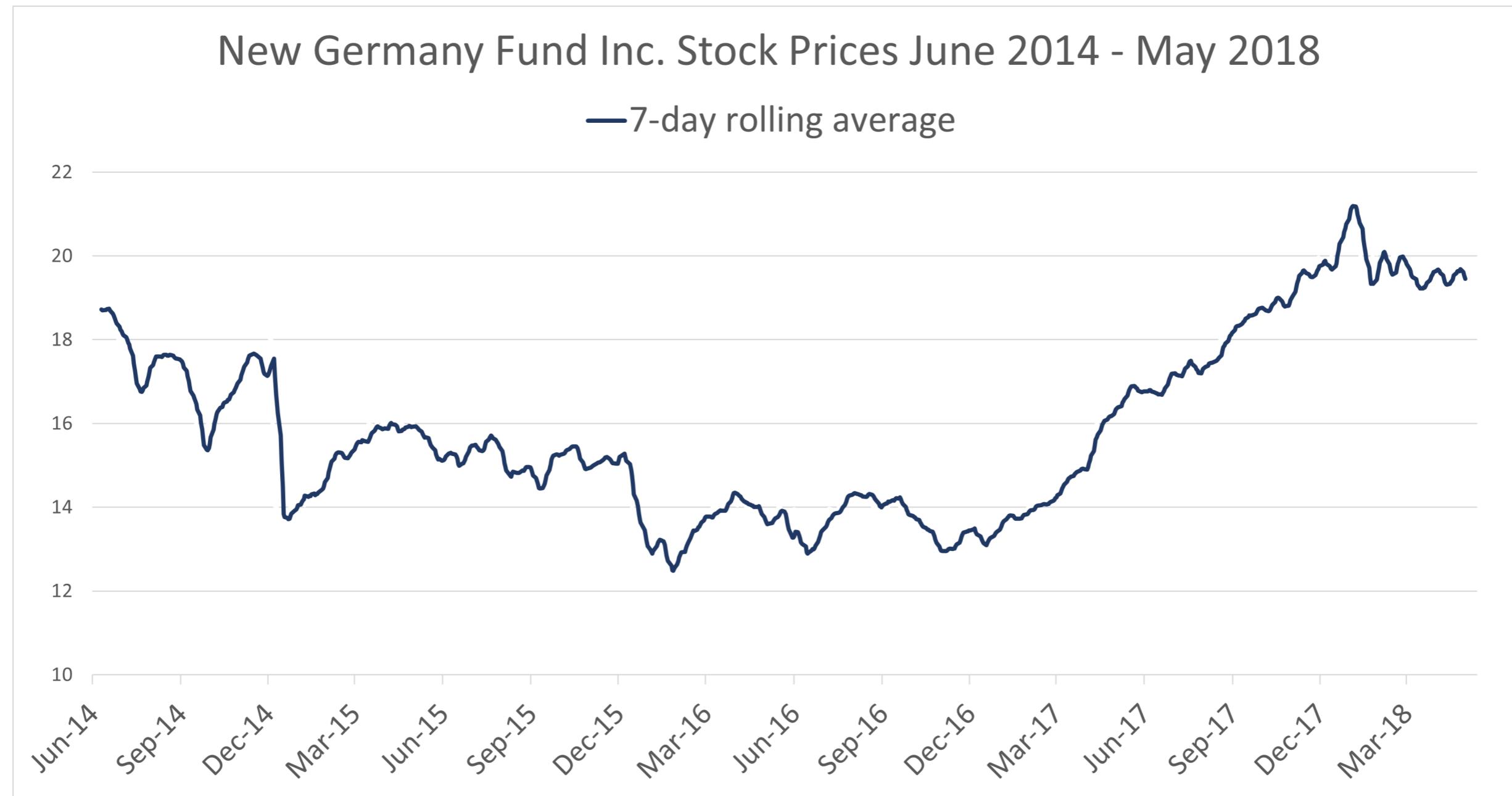
Evaluating the trend in the time series


New Germany Fund Inc. Stock Prices June 2014 - May 2018
—— Stock Price   ·····Simple Trend Line

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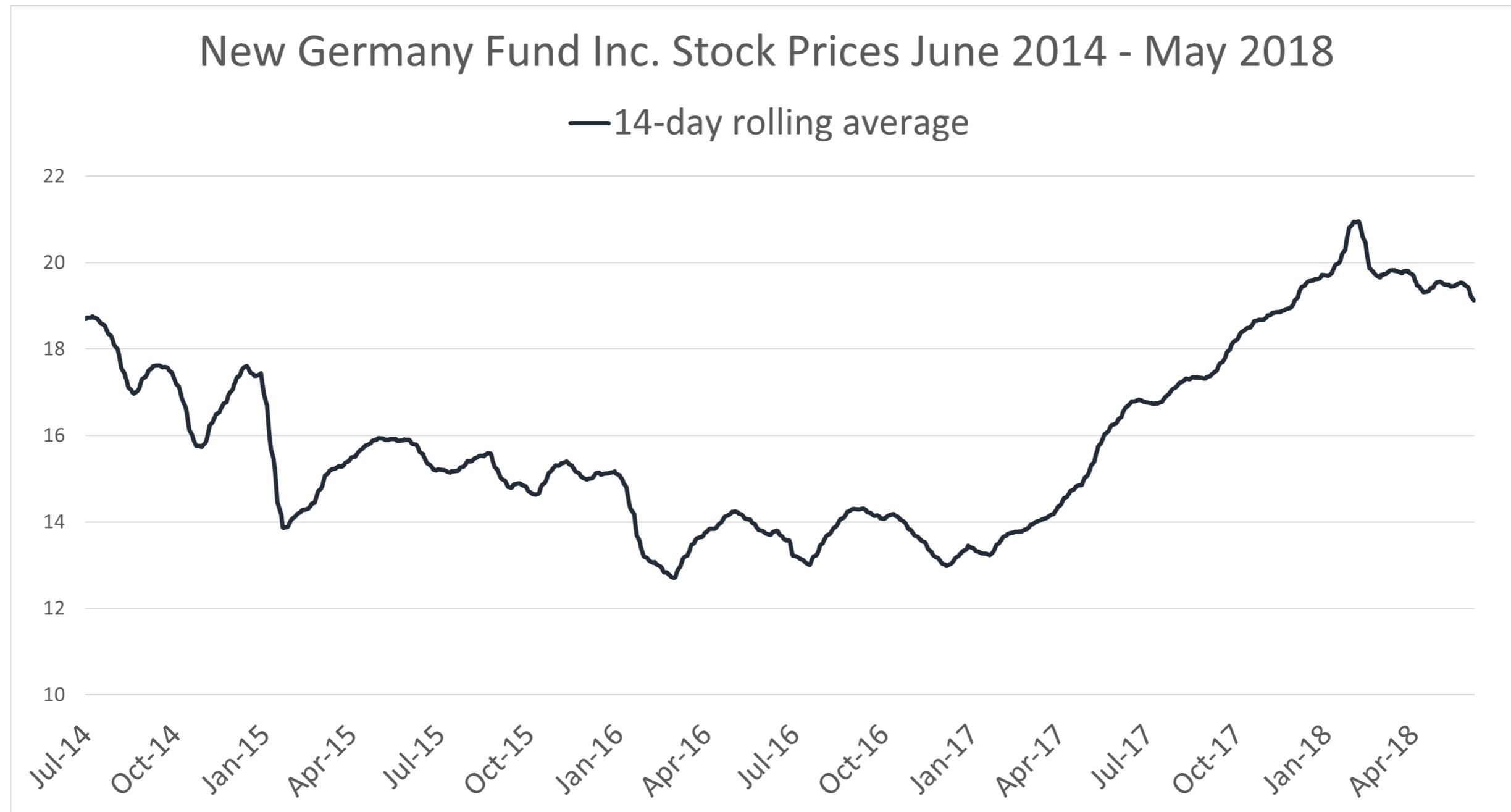
Trends with rolling averages
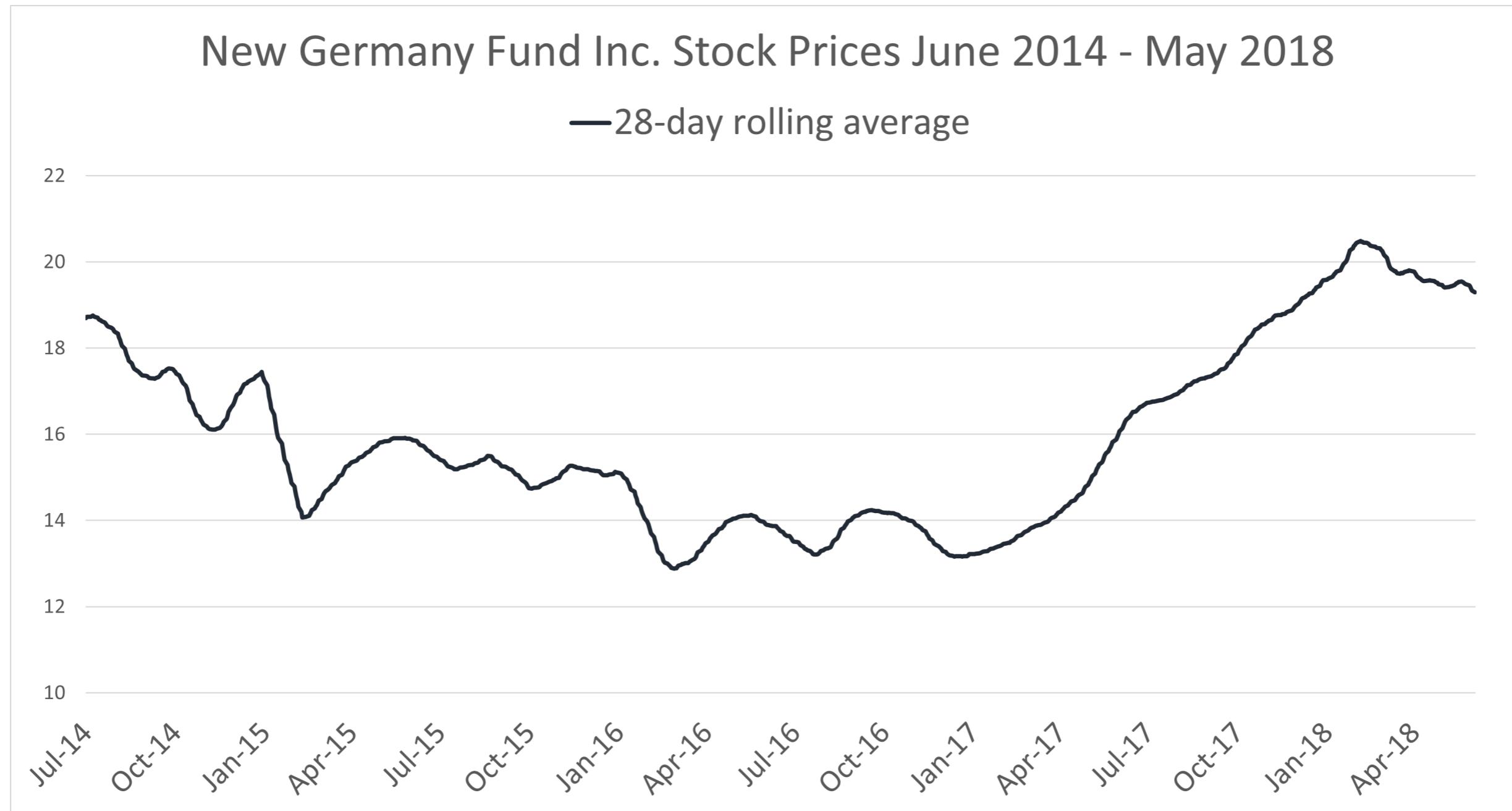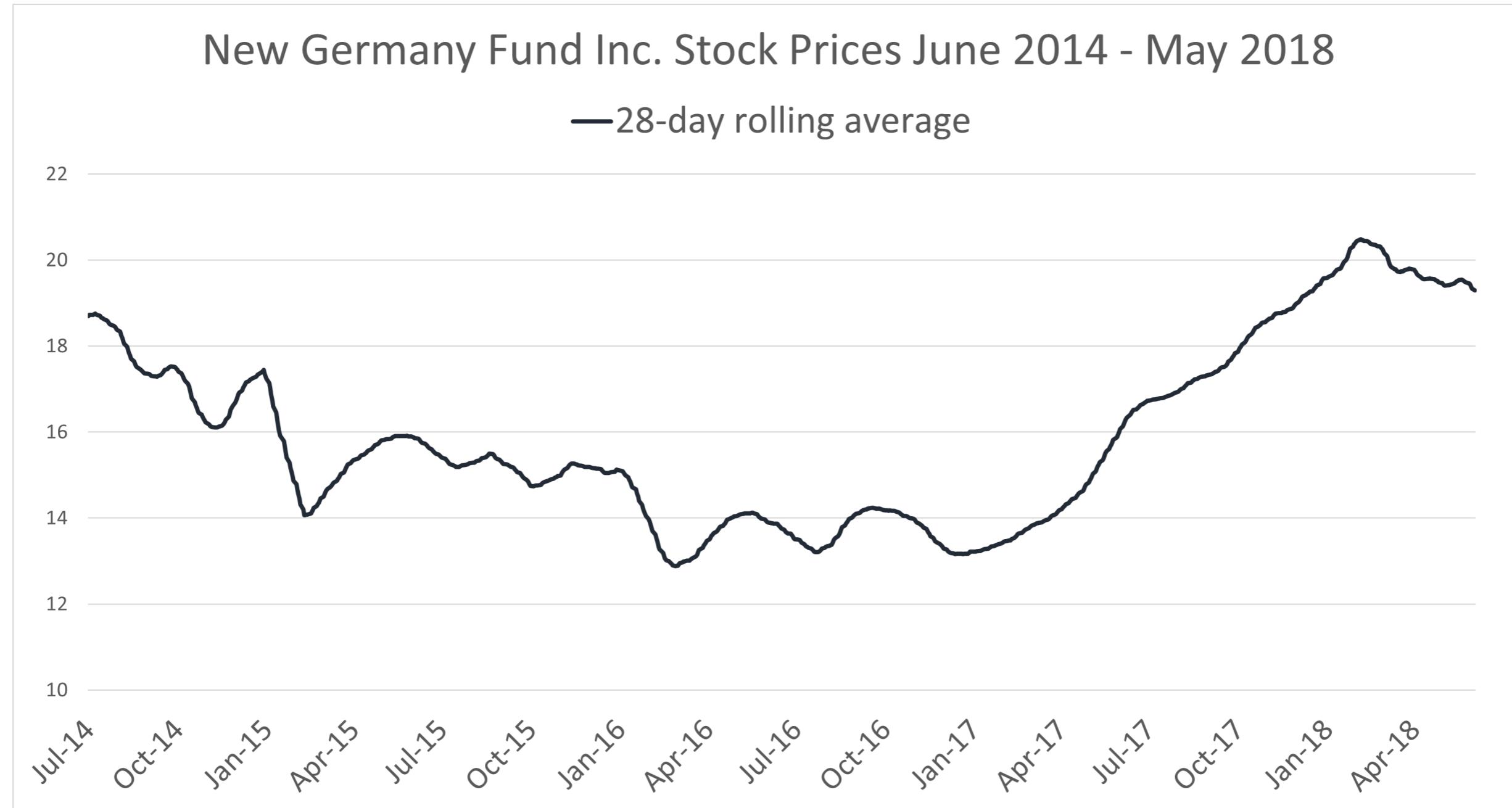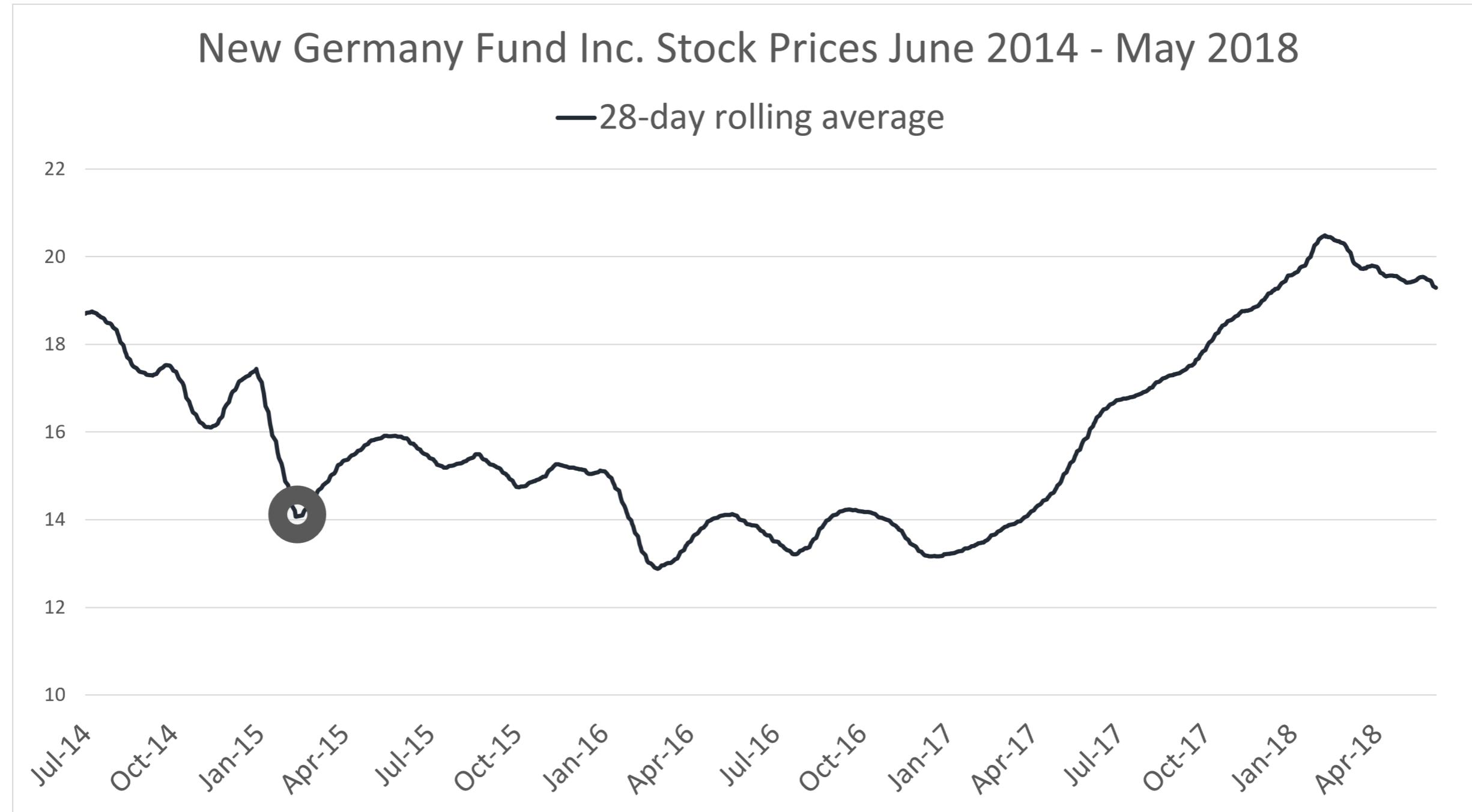
New Germany Fund Inc. Stock Prices June 2014 - May 2018

—Stock Price ——7-day rolling average

Smoothing with rolling averages

New Germany Fund Inc. Stock Prices June 2014 - May 2018

—7-day rolling average

Smoothing with rolling averages

New Germany Fund Inc. Stock Prices June 2014 - May 2018

——14-day rolling average

Smoothing with rolling averages

New Germany Fund Inc. Stock Prices June 2014 - May 2018

—28-day rolling average

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Anomalies in a time series

New Germany Fund Inc. Stock Prices June 2014 - May 2018

— 28-day rolling average

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Anomalies in a time series

New Germany Fund Inc. Stock Prices June 2014 - May 2018

—28-day rolling average

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Let's practice!

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Analyzing Glassdoor reviews over time

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Let's practice!

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