

Distance as a signal

Nutcha Wattanachit, Johannes Bracher, Evan Ray, Nick Reich

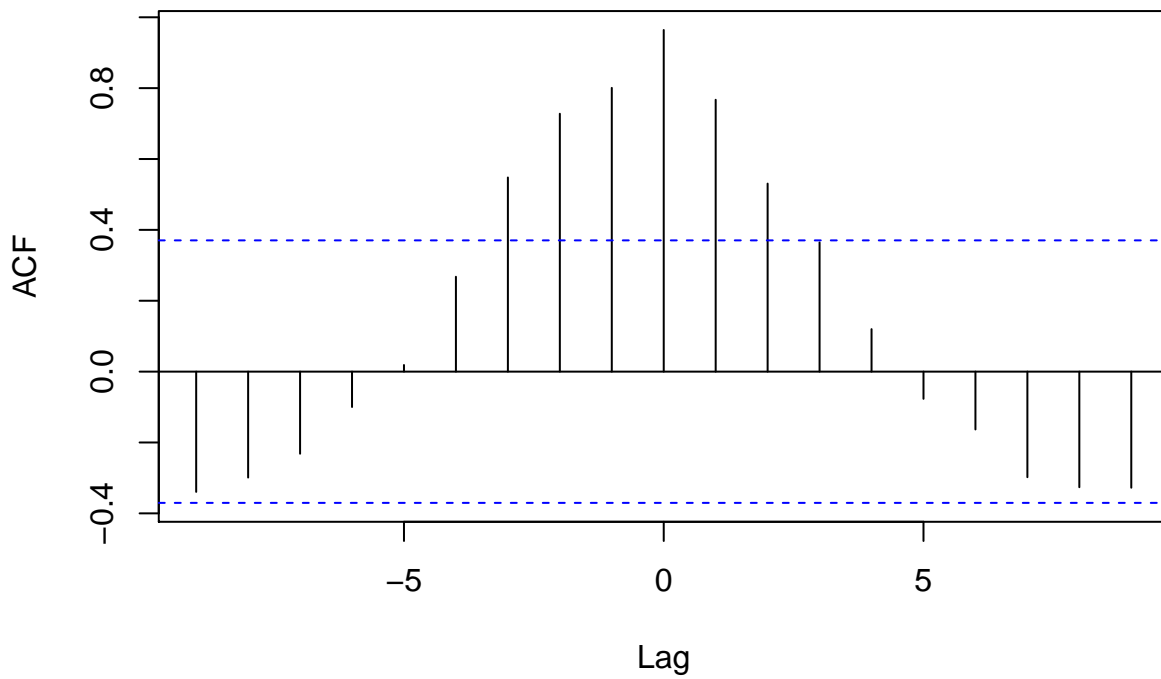
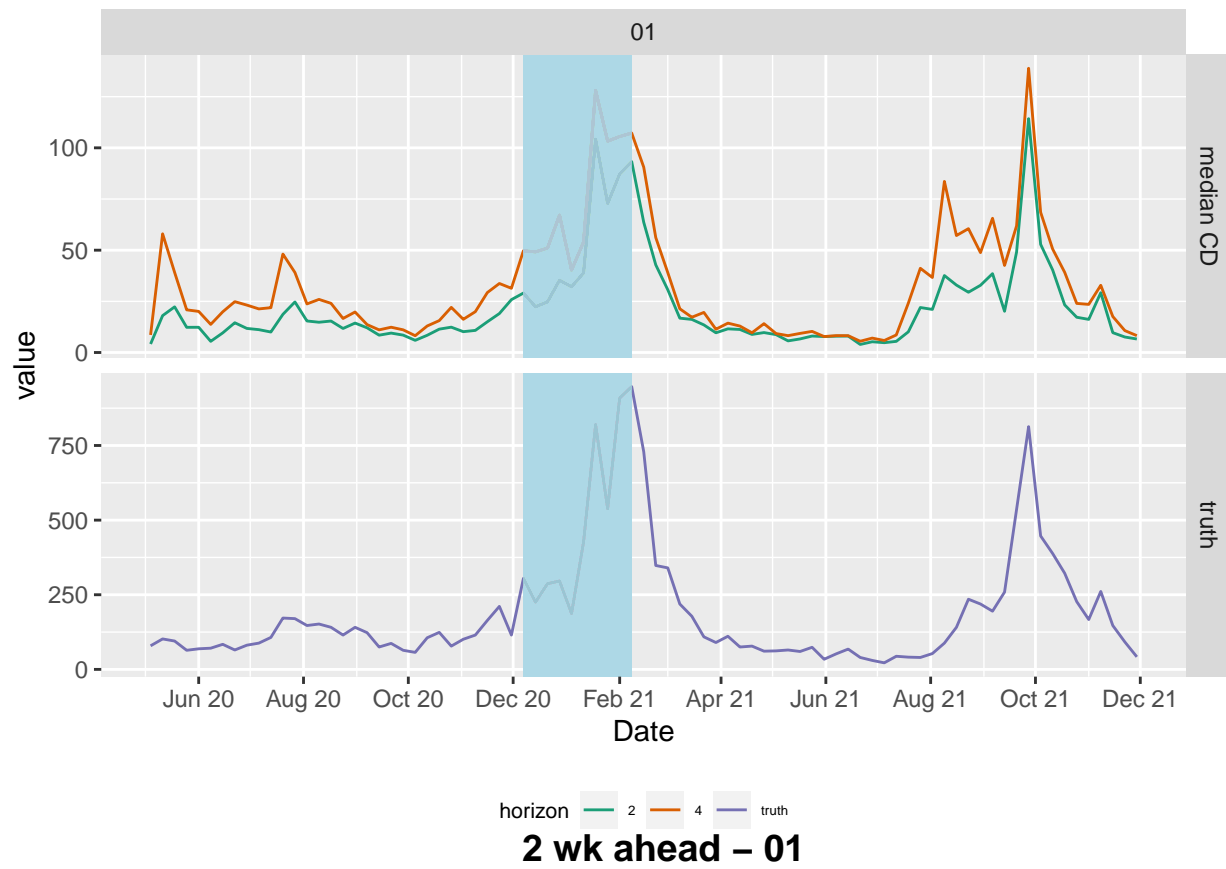
09/26/2022

Cross-correlations

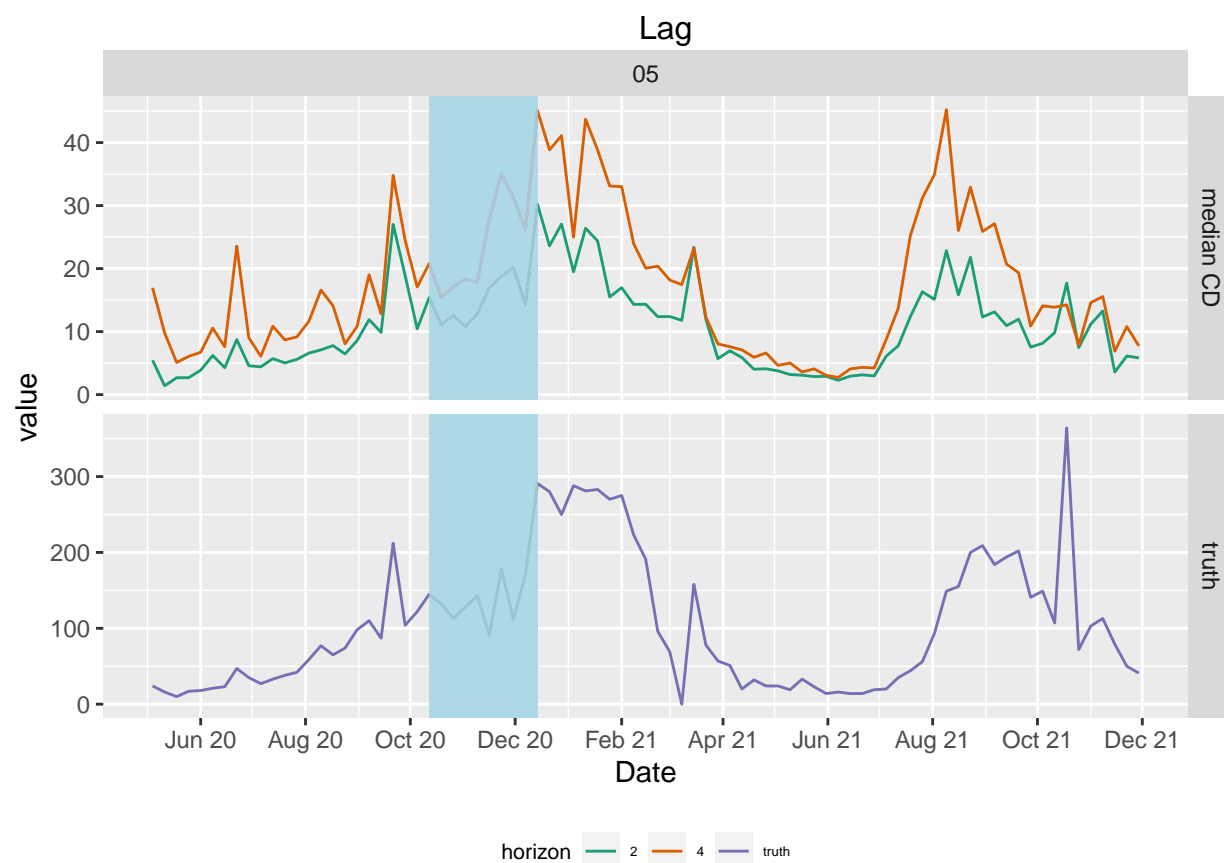
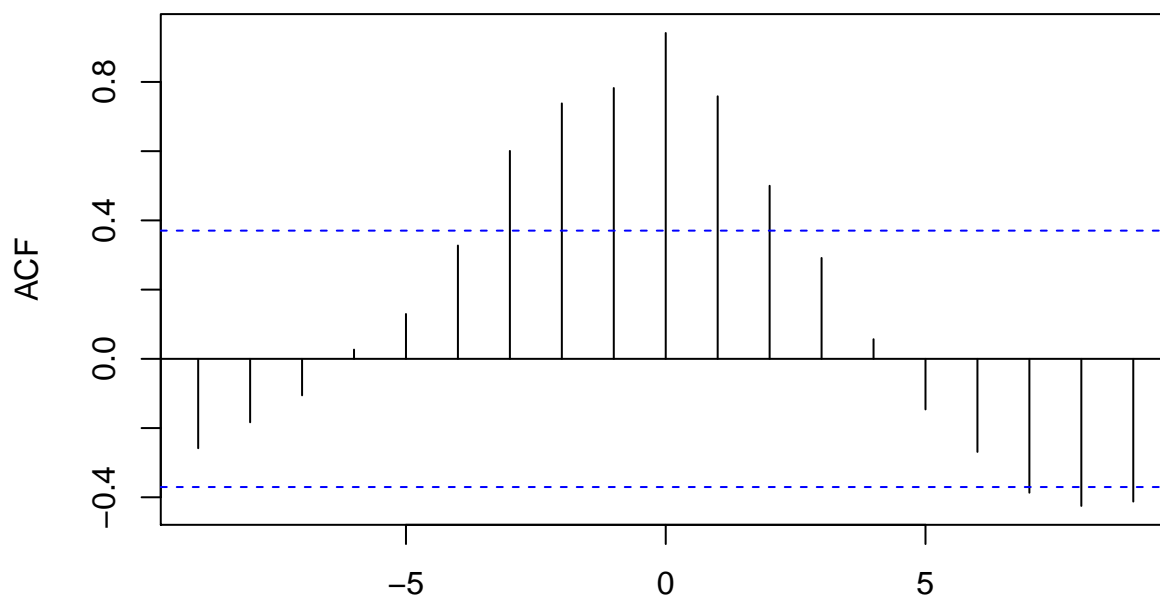
Forecast inclusion criteria

- Targets: 2 and 4 wk ahead inc death
- Target End Dates: Jan 2021-Jan 2022
- Model: all models submitted on a particular date
- Probability levels: All
- Locations: All 34 states (continental US) except HI, AK and DC. We also exclude DE, ME, MT, OK, OR, VT for low or highly variable incidents. We also exclude AZ, CA, CT, MD, MO, NE, NJ, RI since they have only one peak.

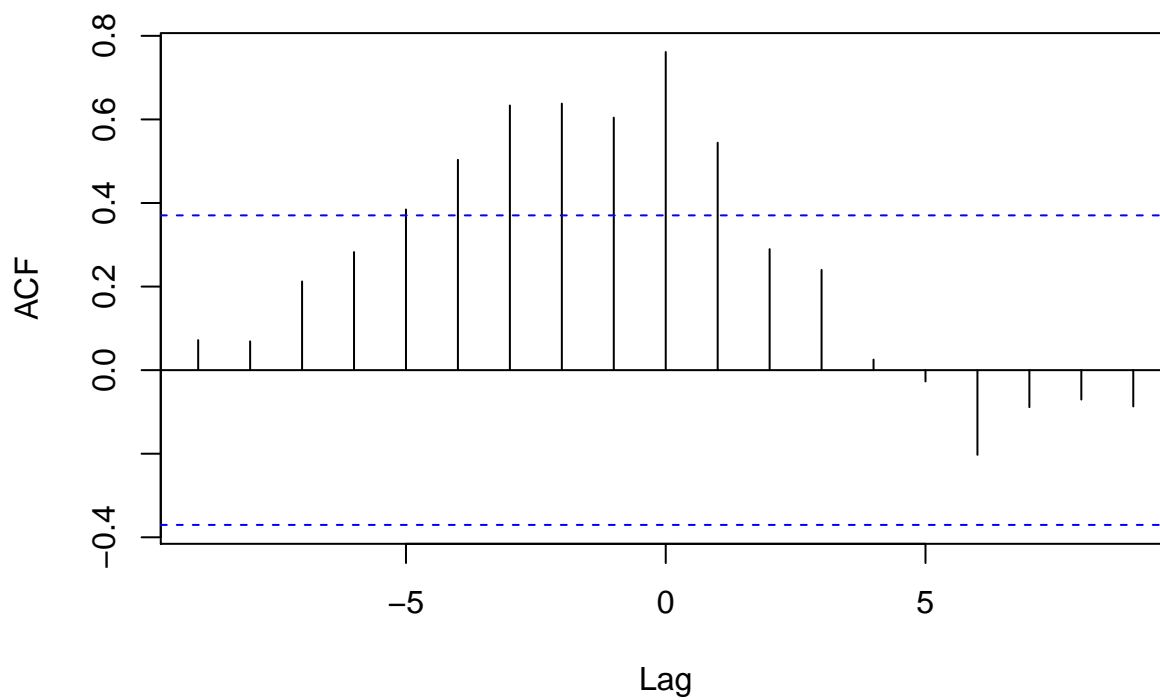
Winter 2020/21 Up



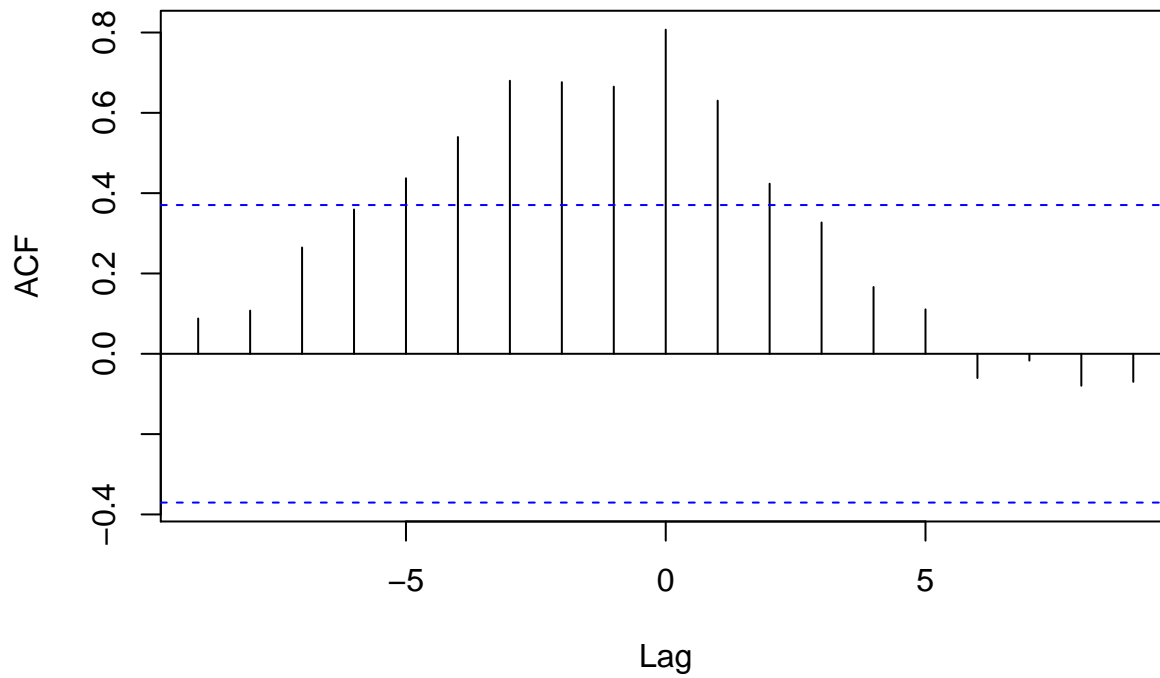
4 wk ahead – 01

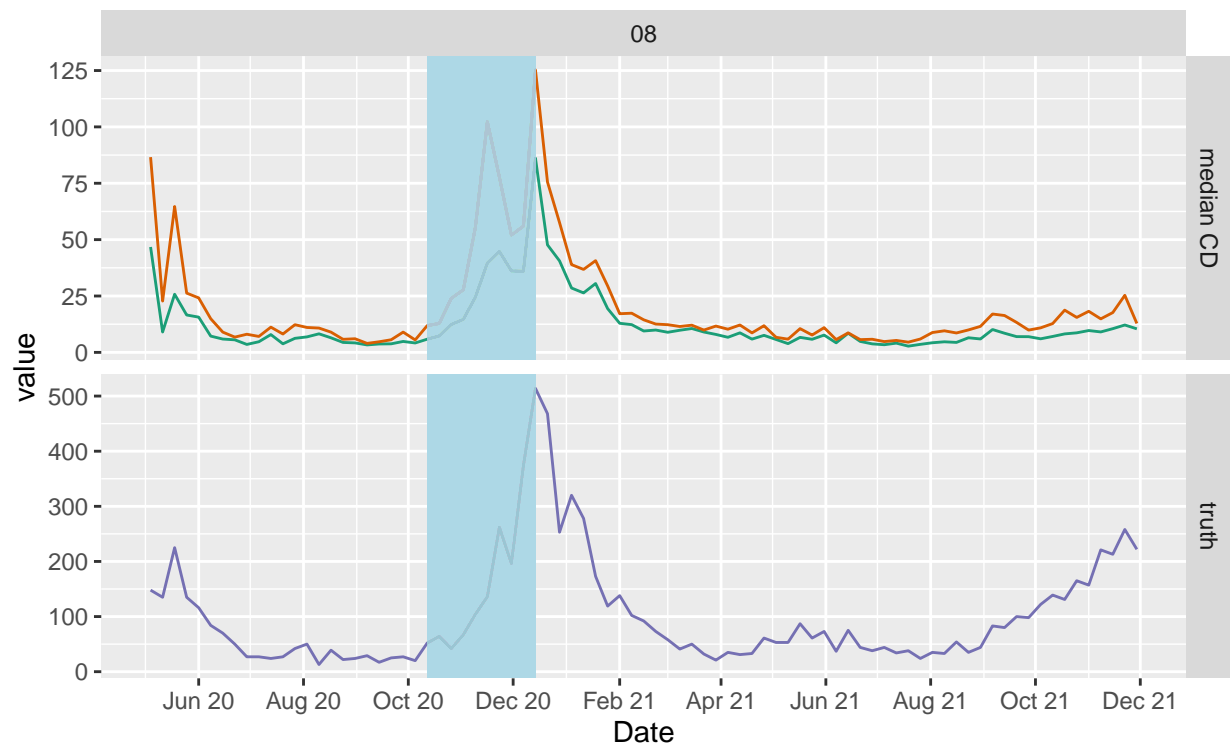


2 wk ahead – 05



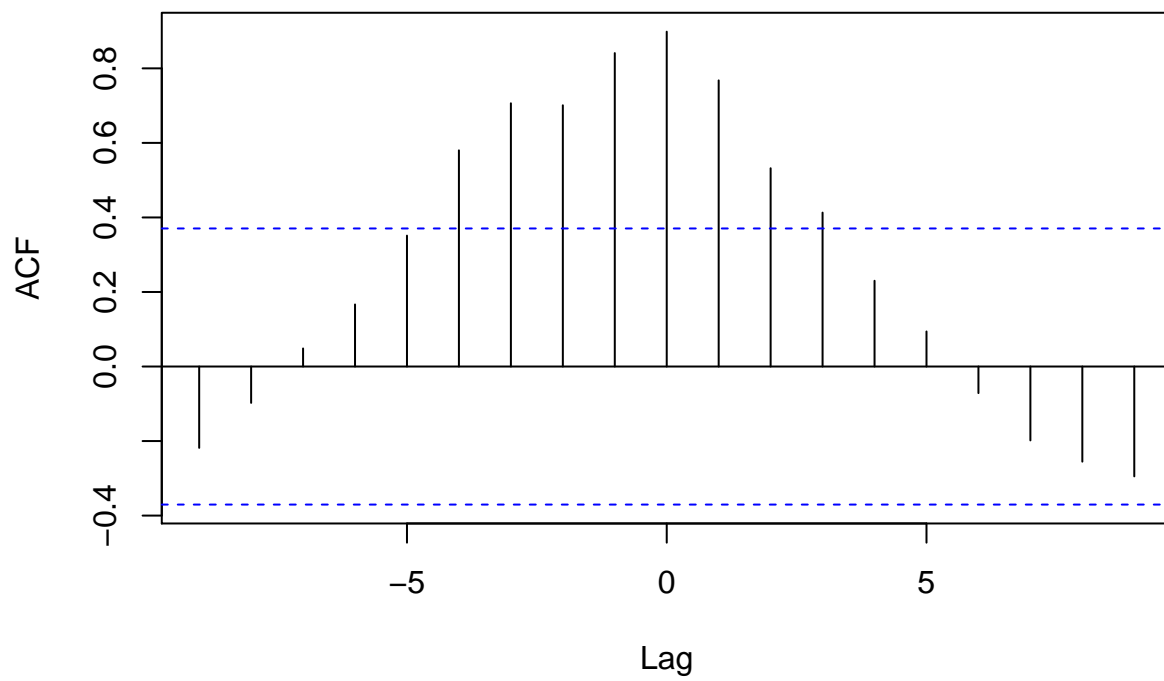
4 wk ahead – 05



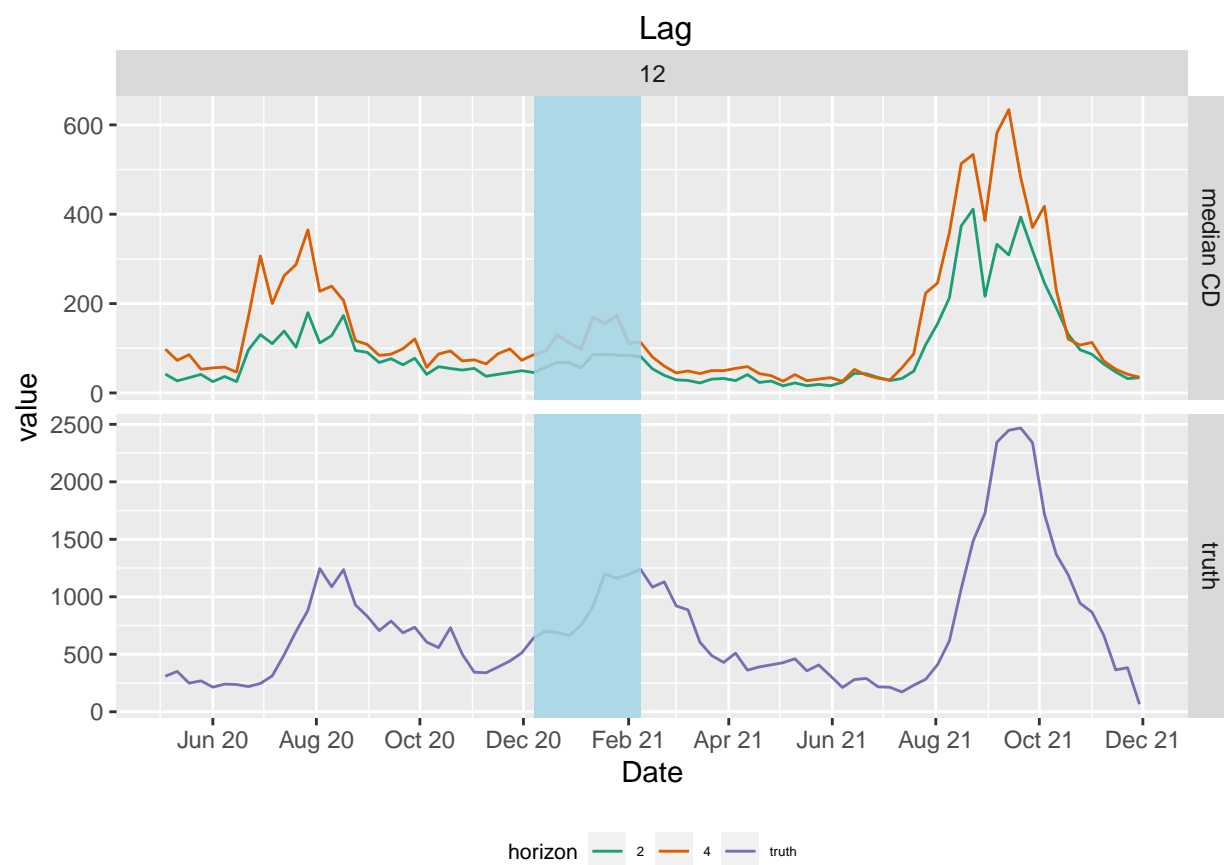
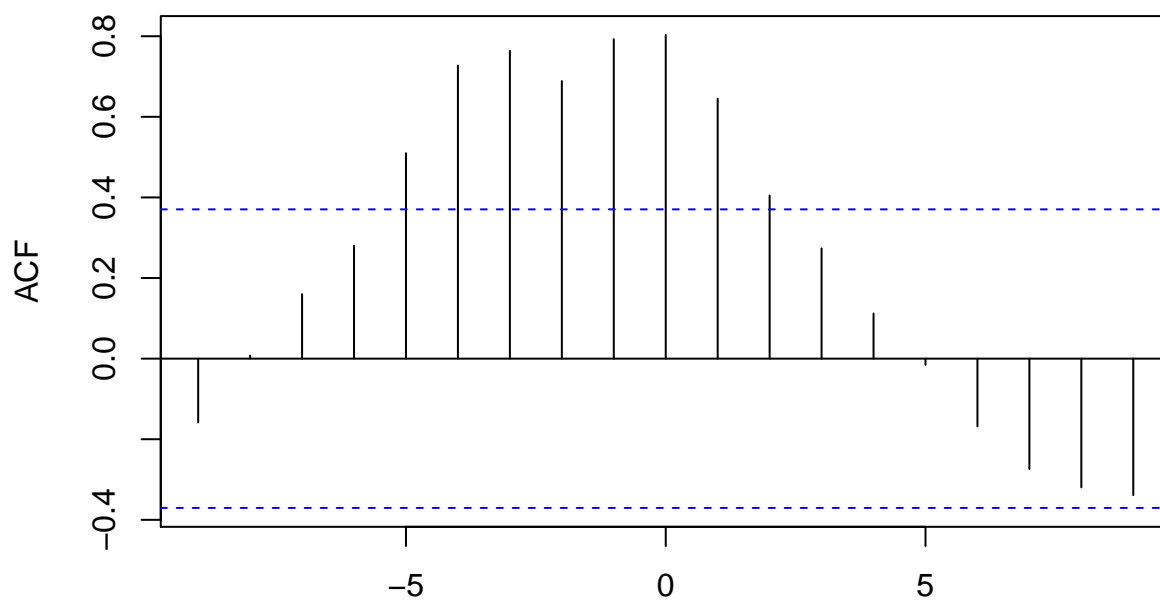


horizon 2 4 truth

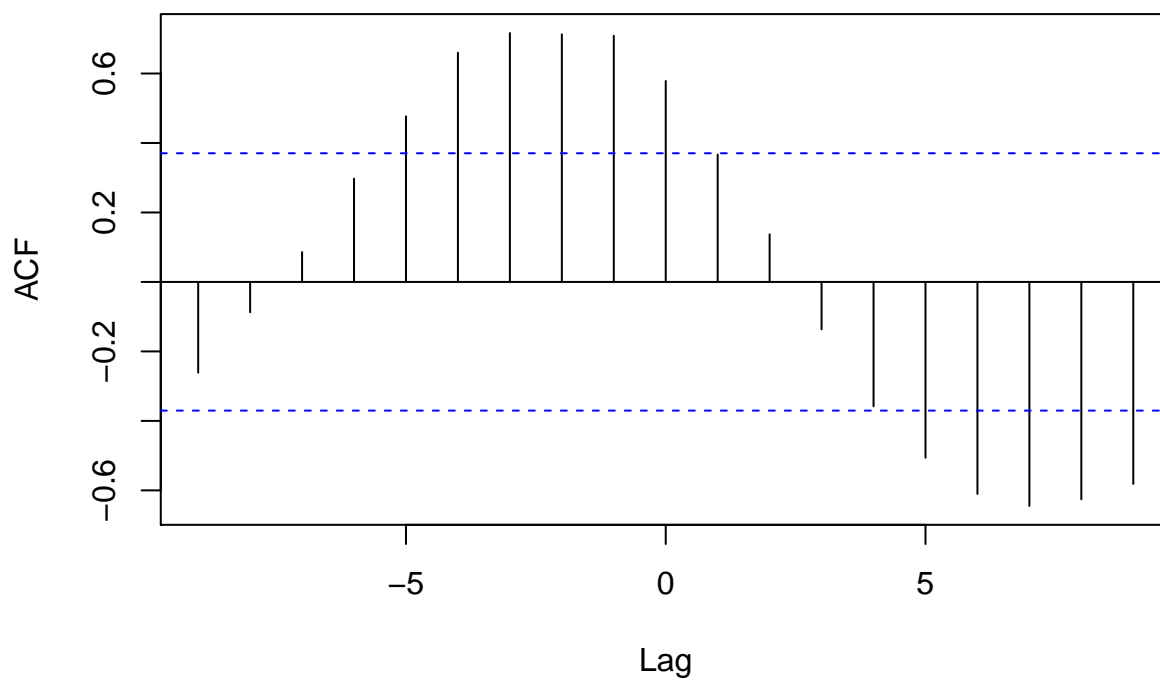
2 wk ahead – 08



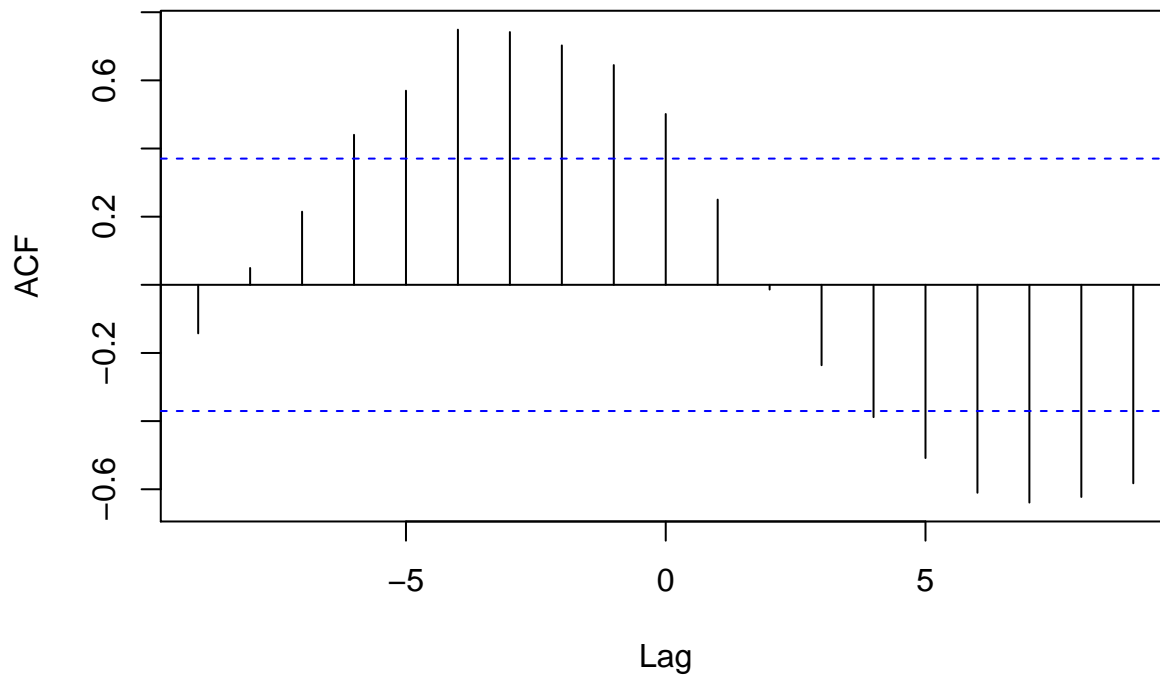
4 wk ahead – 08

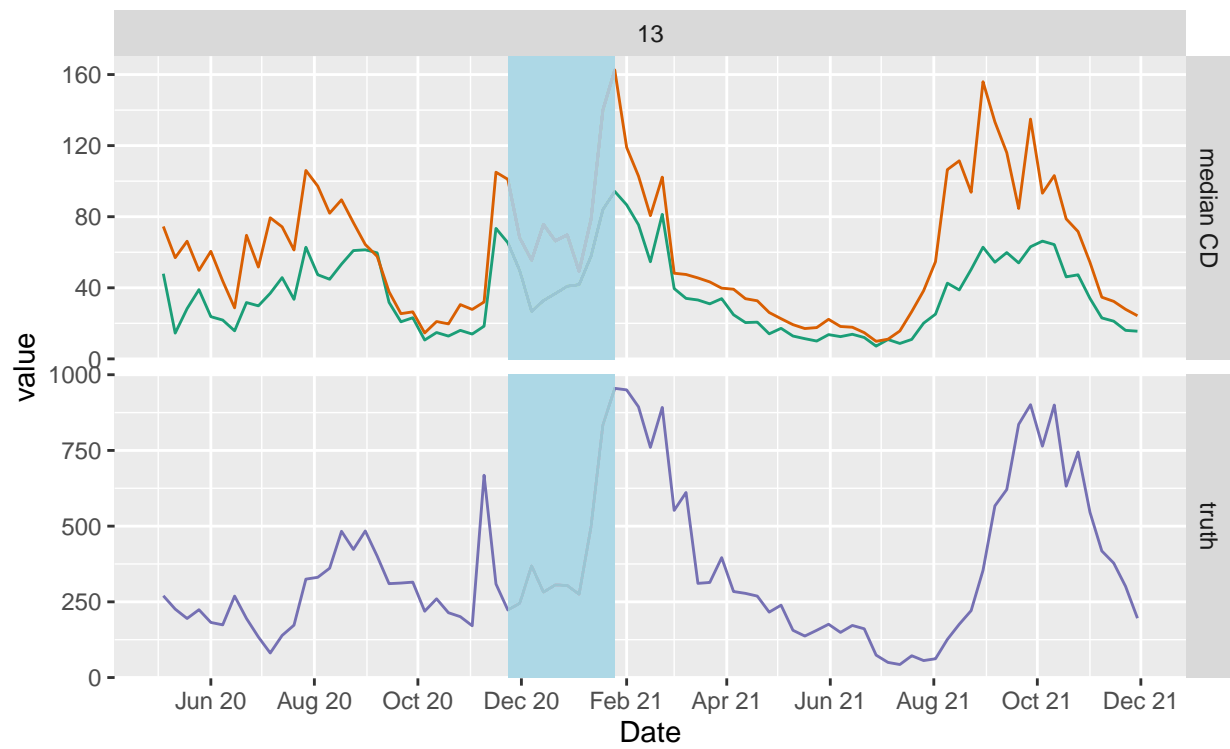


2 wk ahead – 12



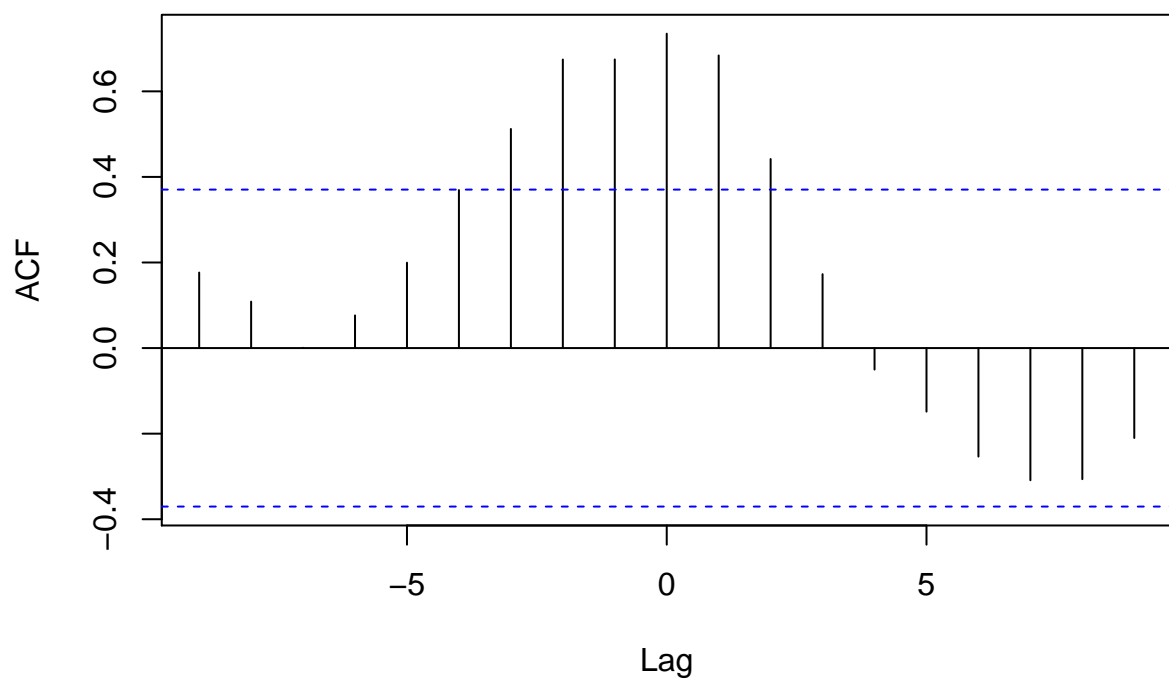
4 wk ahead – 12



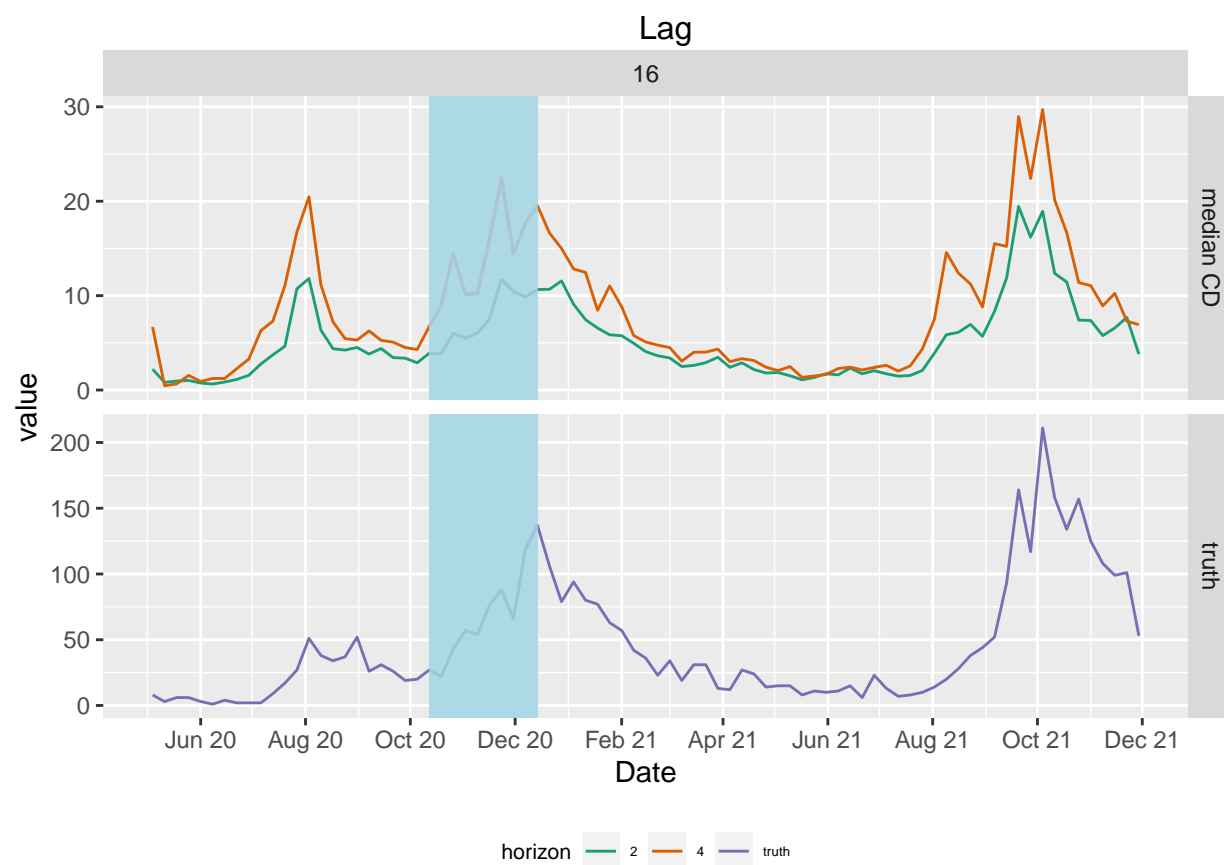
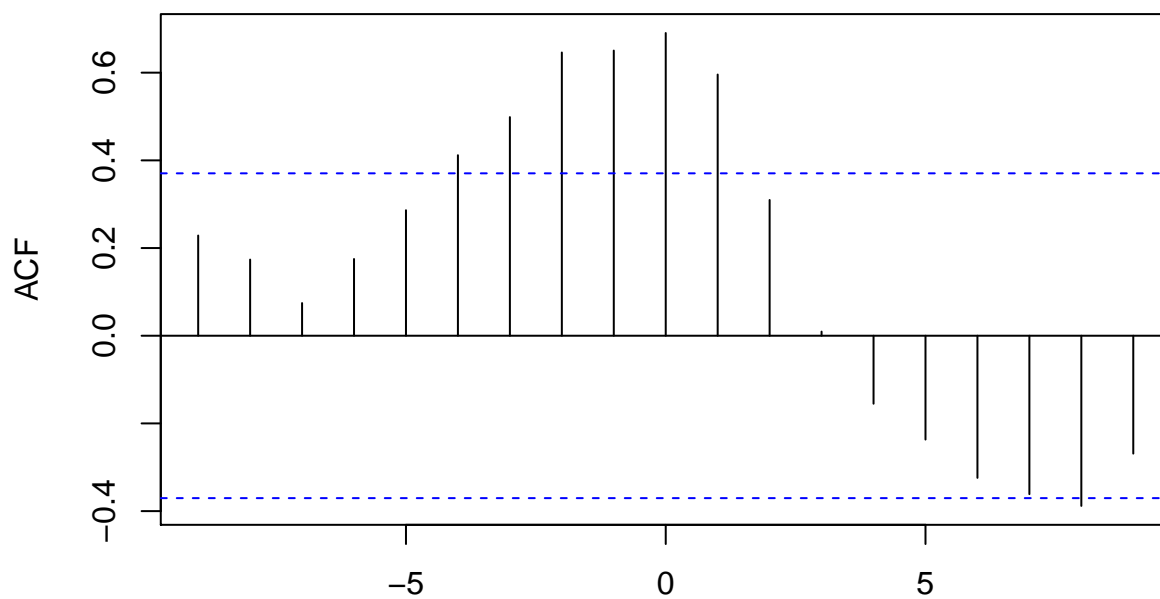


horizon 2 4 truth

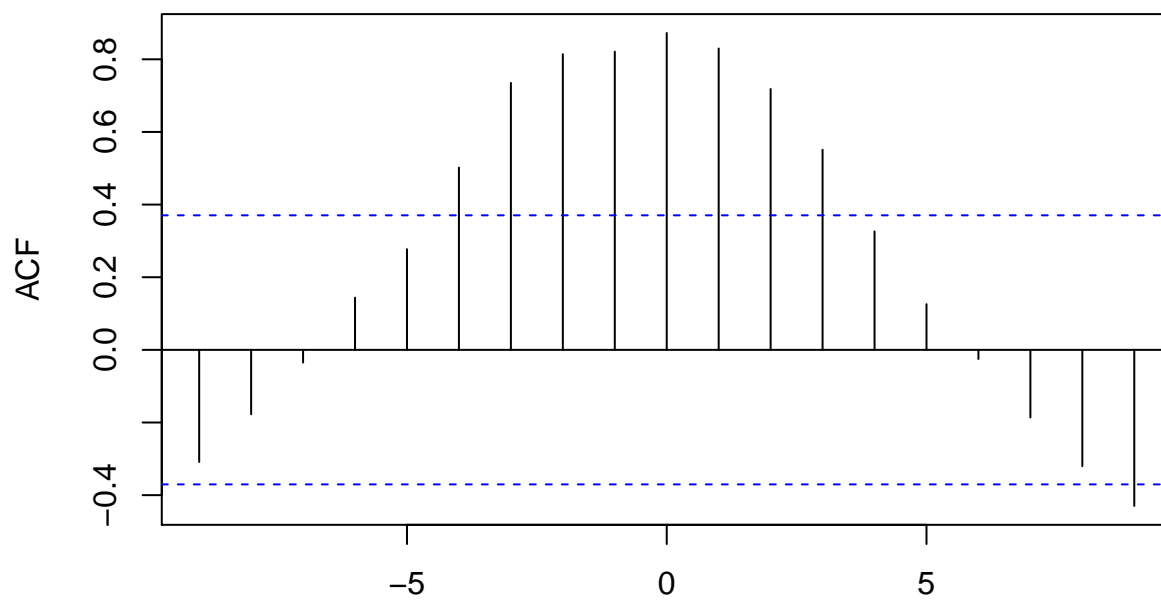
2 wk ahead – 13



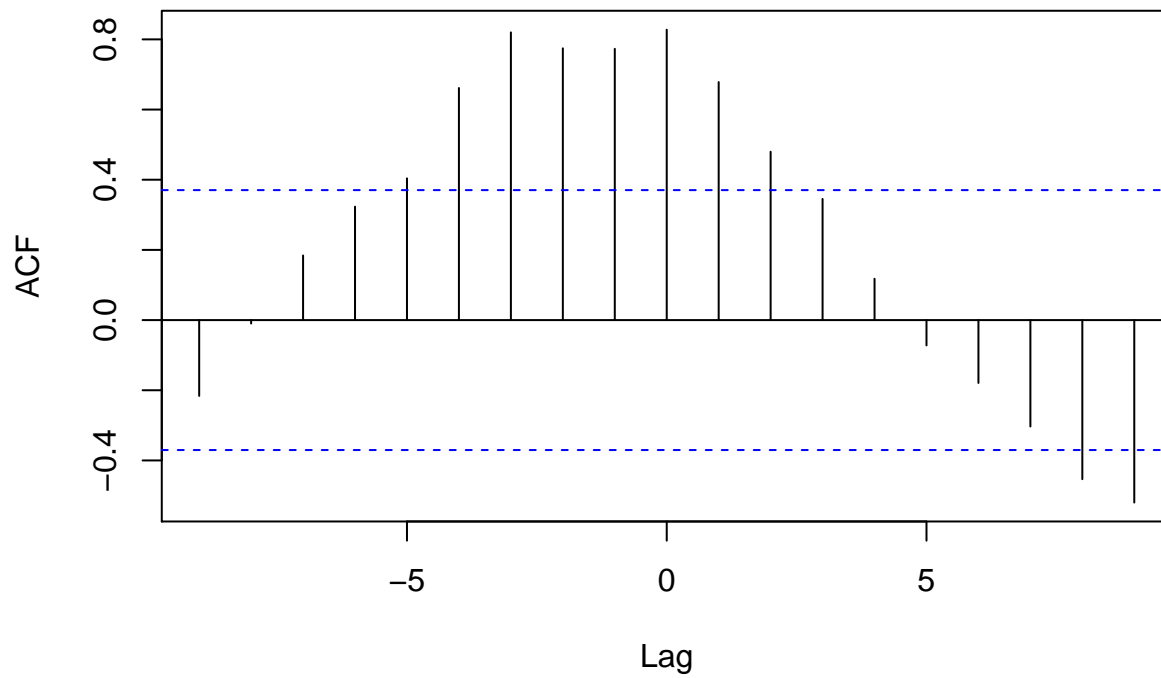
4 wk ahead – 13

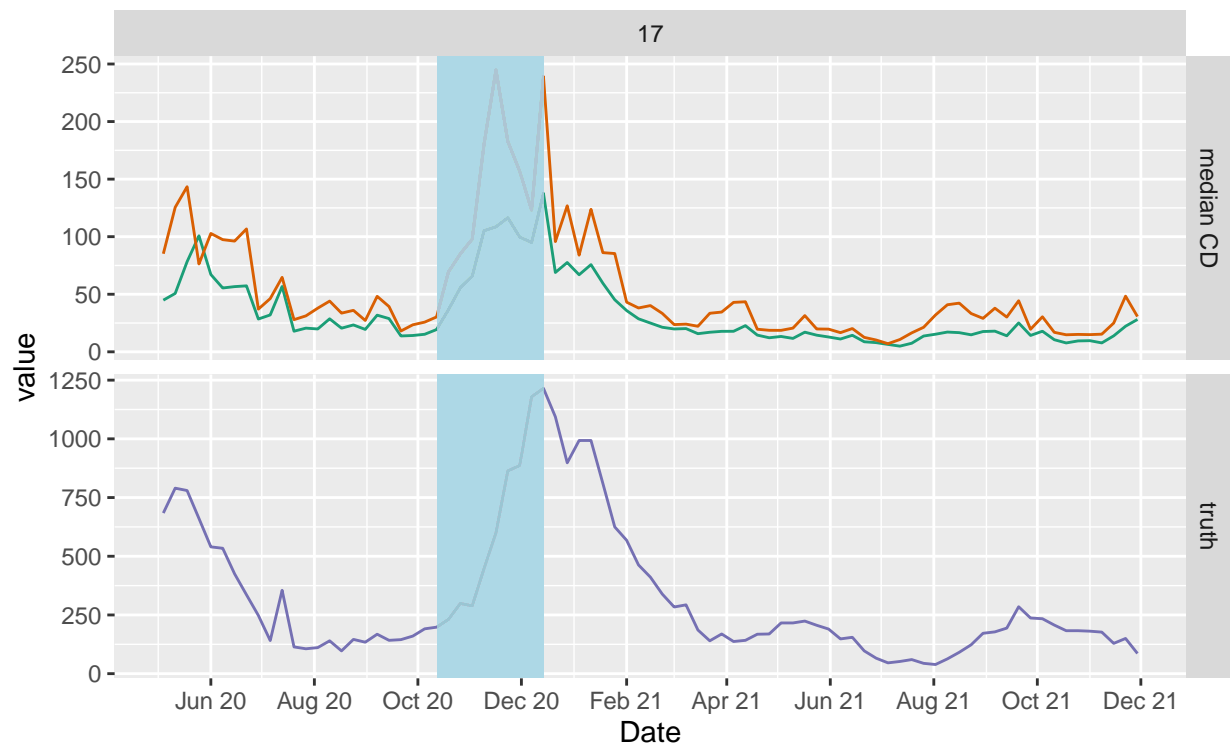


2 wk ahead – 16



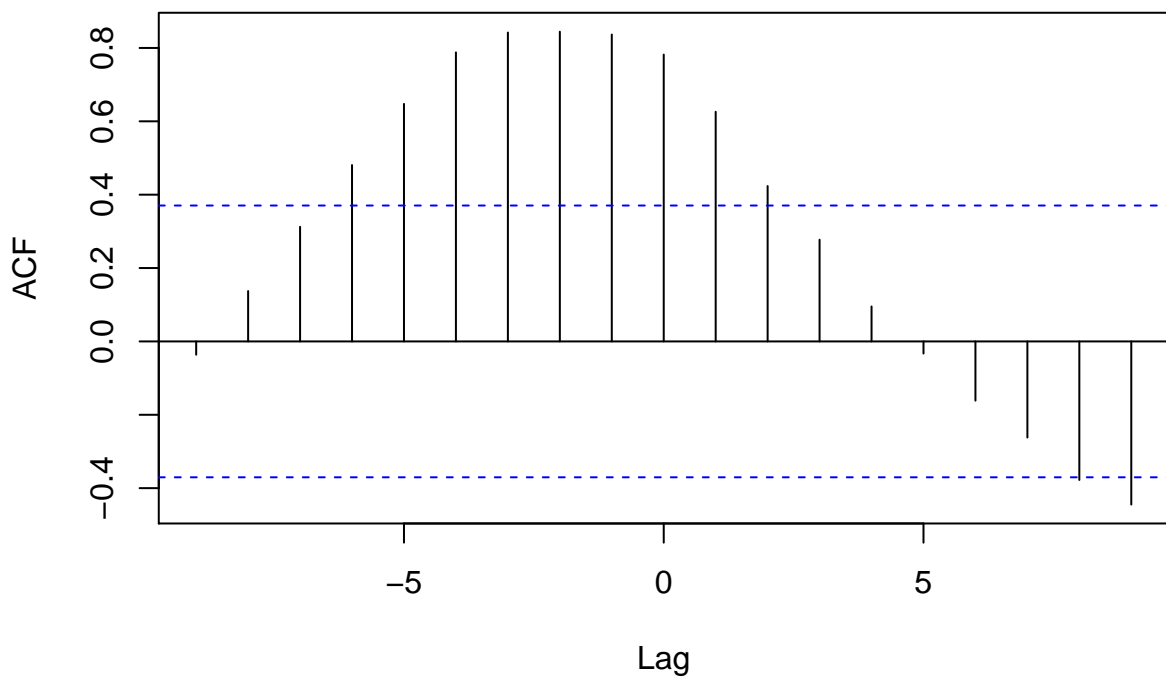
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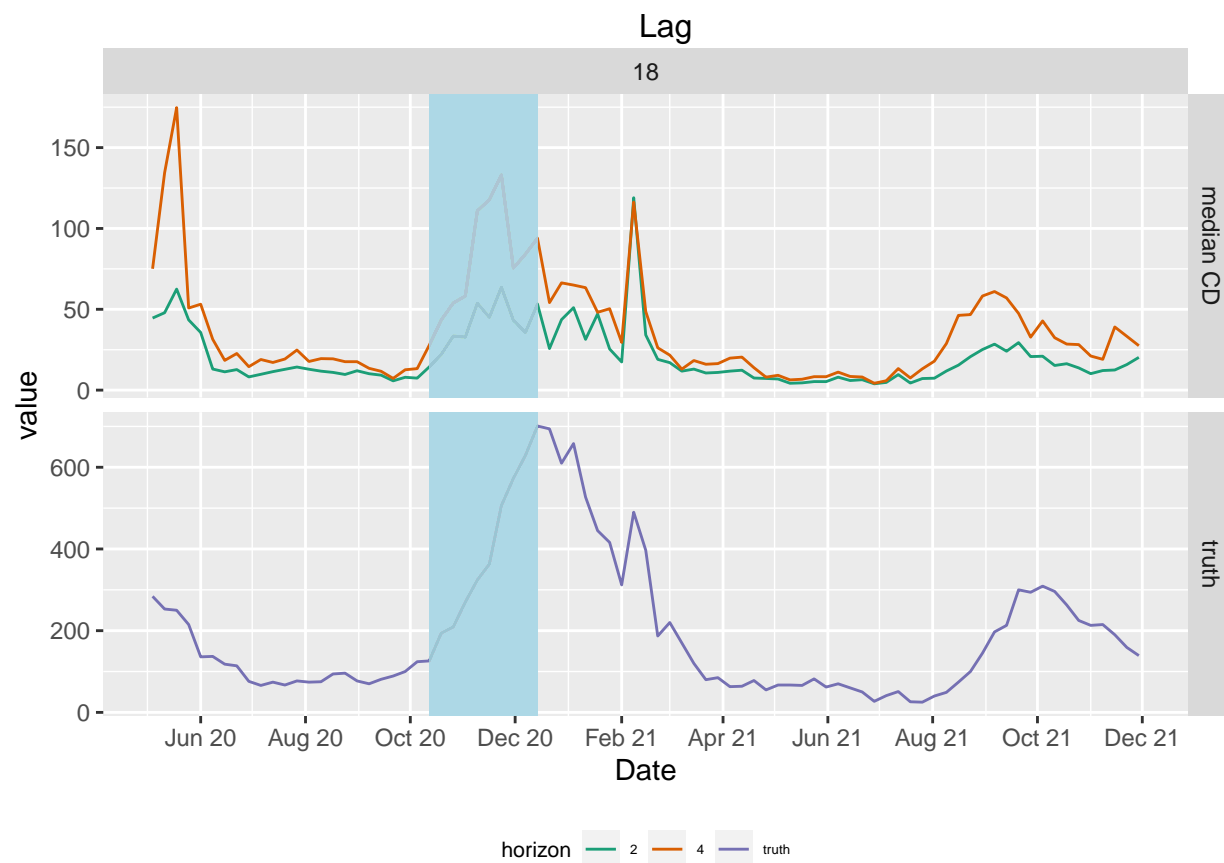
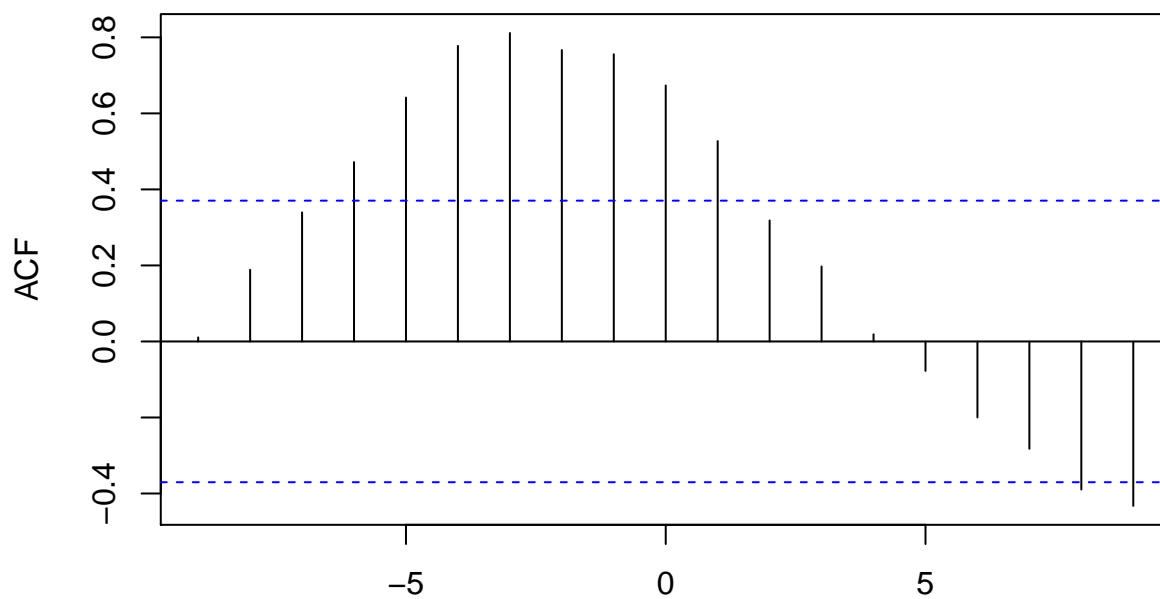


horizon 2 4 truth

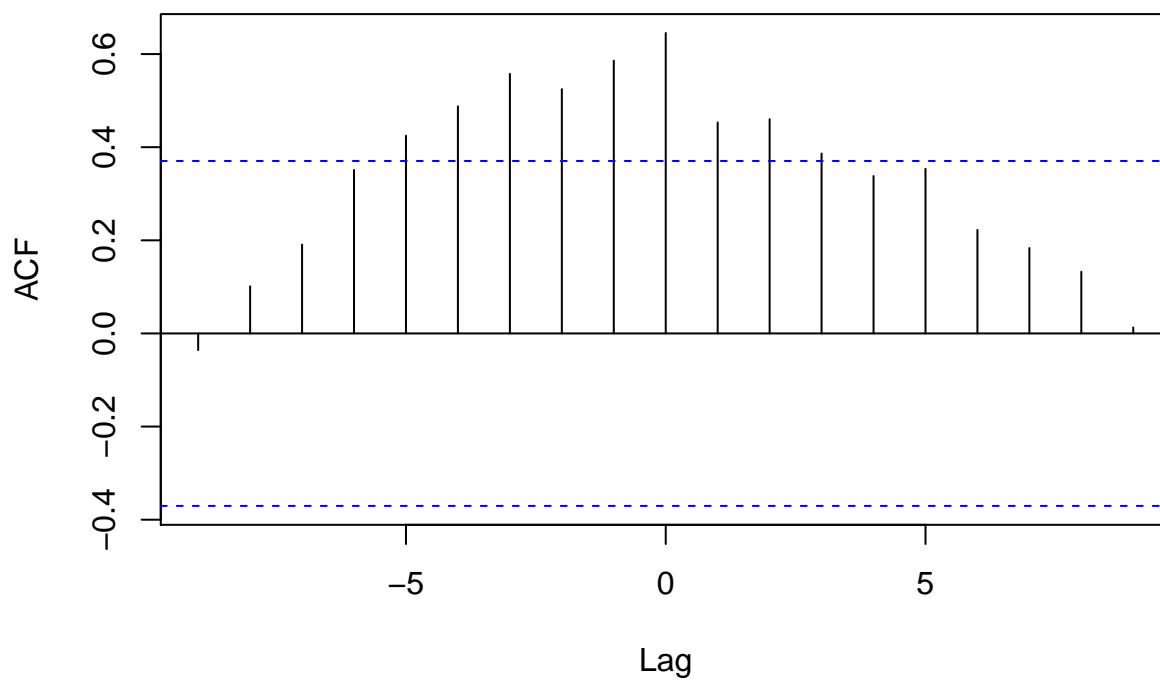
2 wk ahead – 17



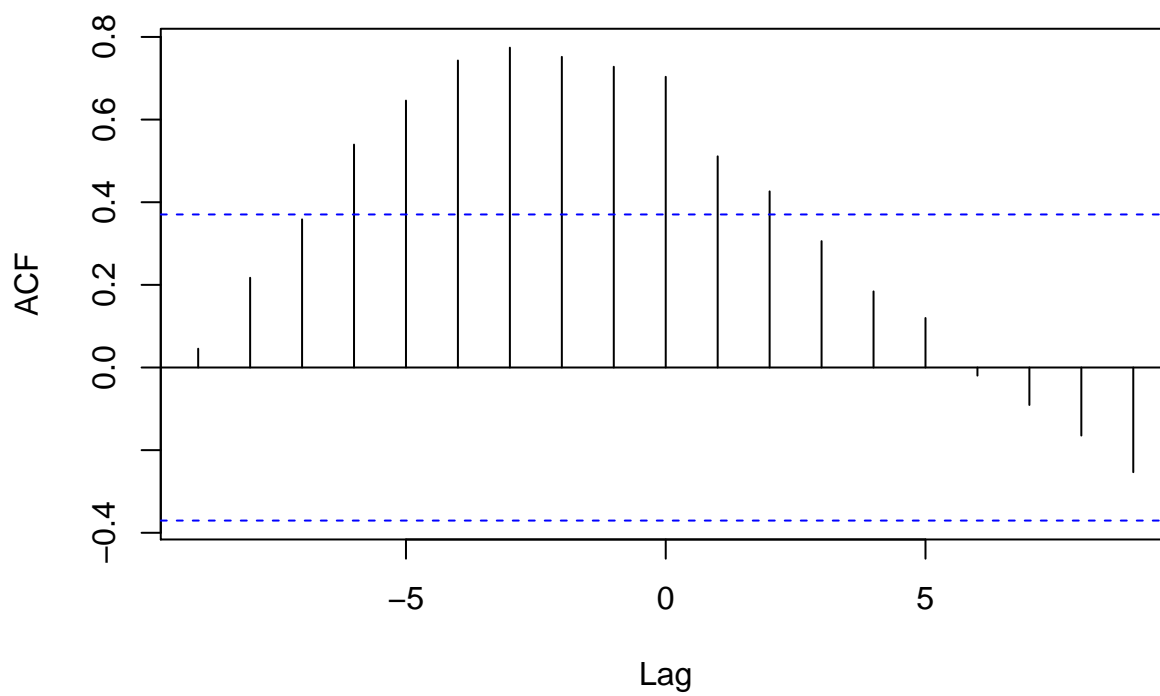
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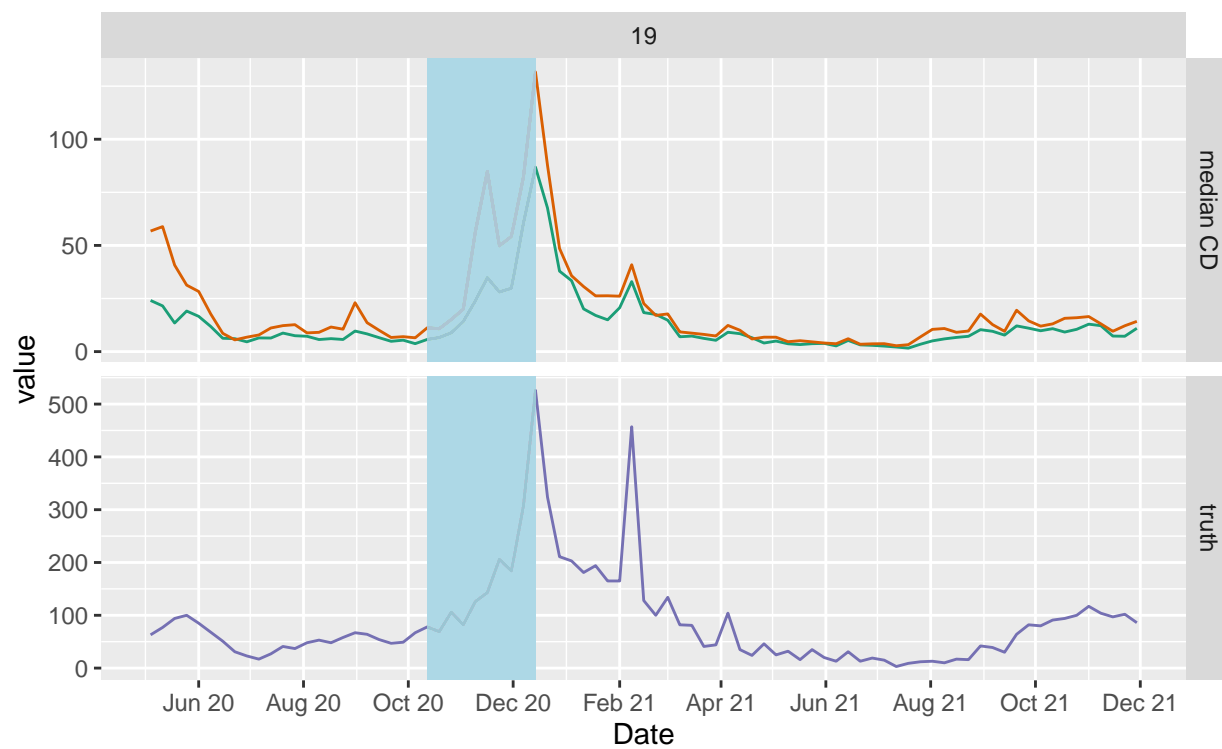


2 wk ahead – 18



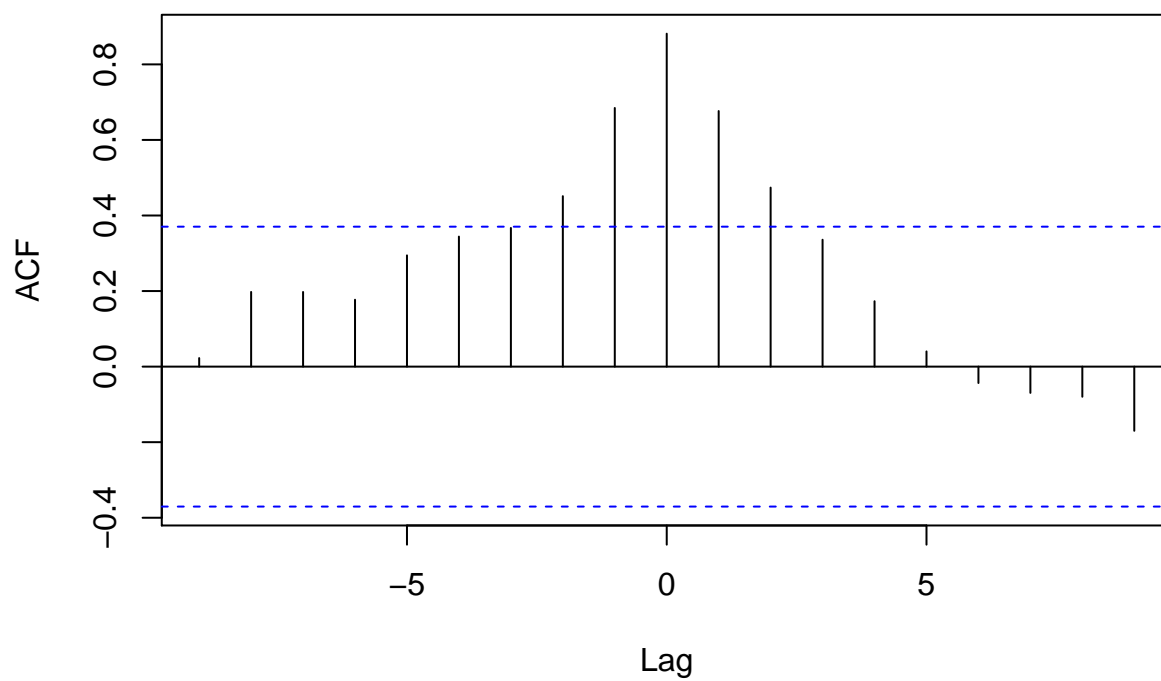
4 wk ahead – 18



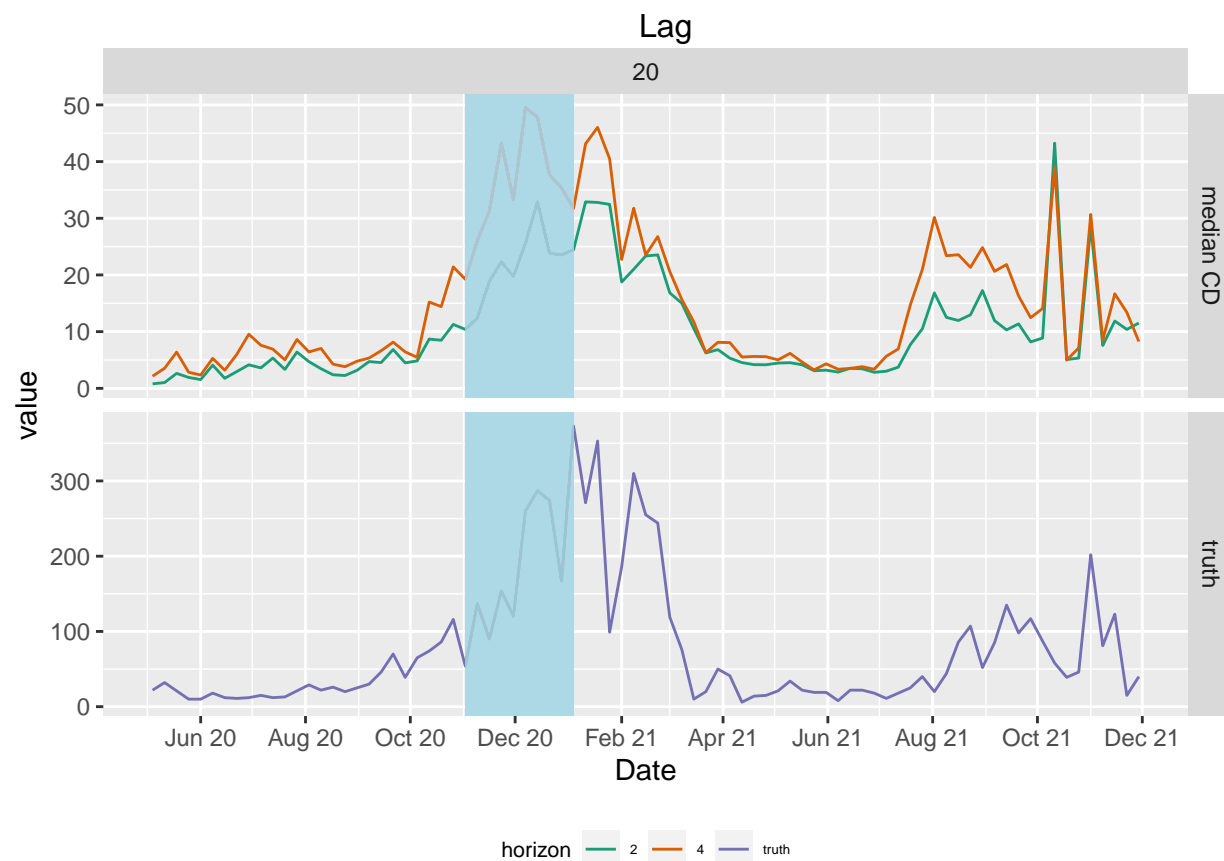
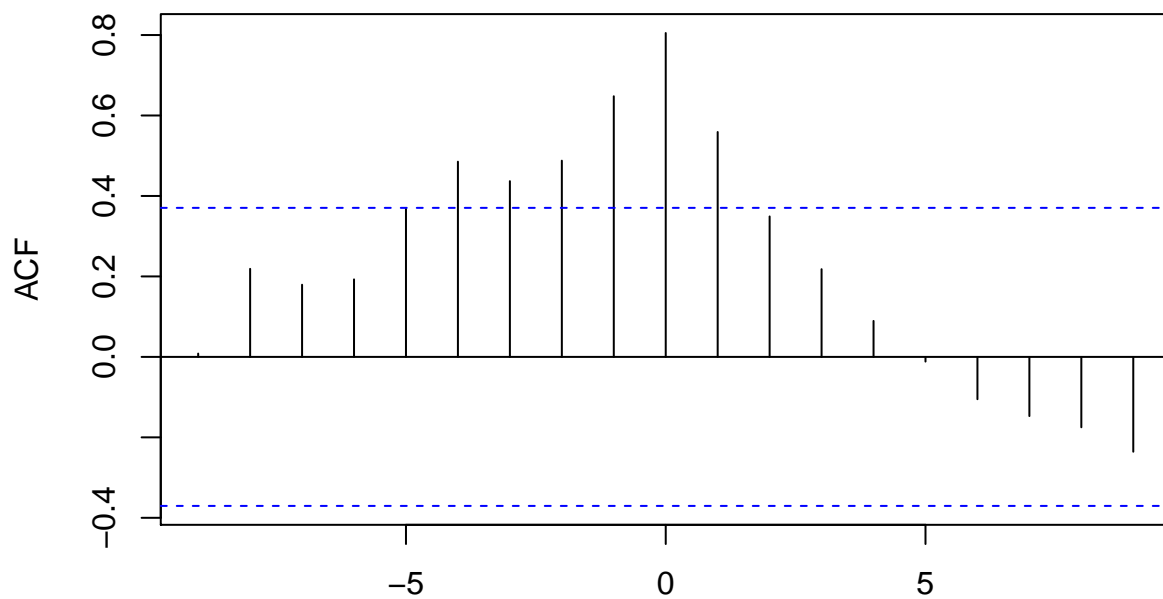


horizon 2 4 truth

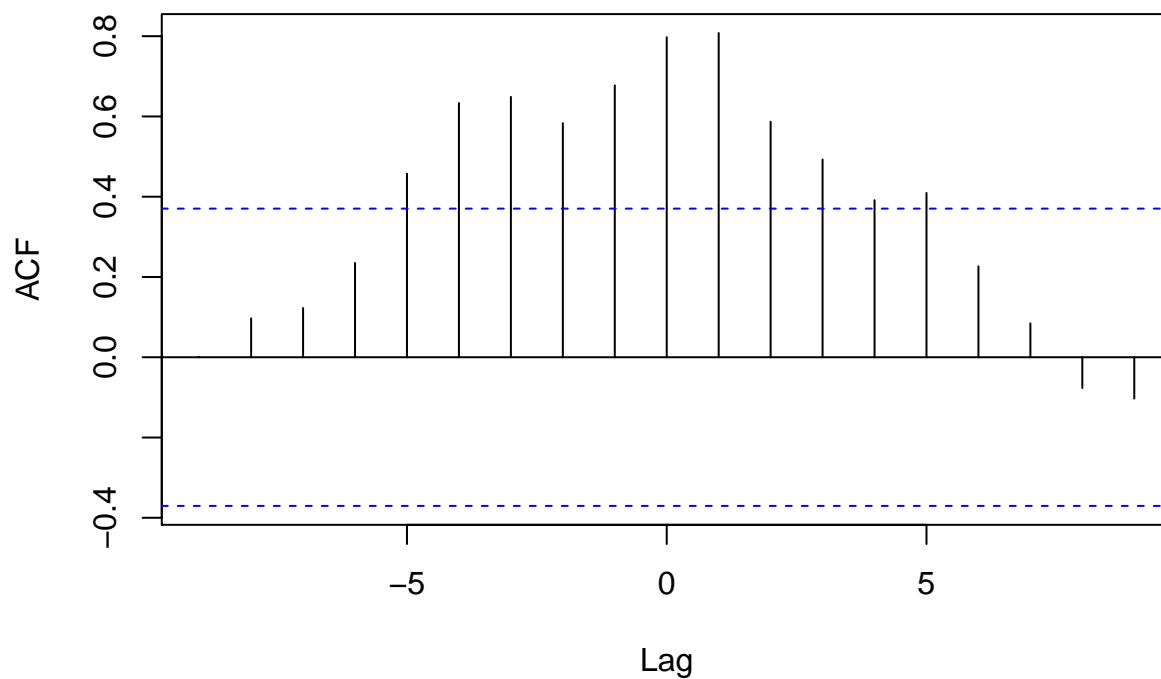
2 wk ahead – 19



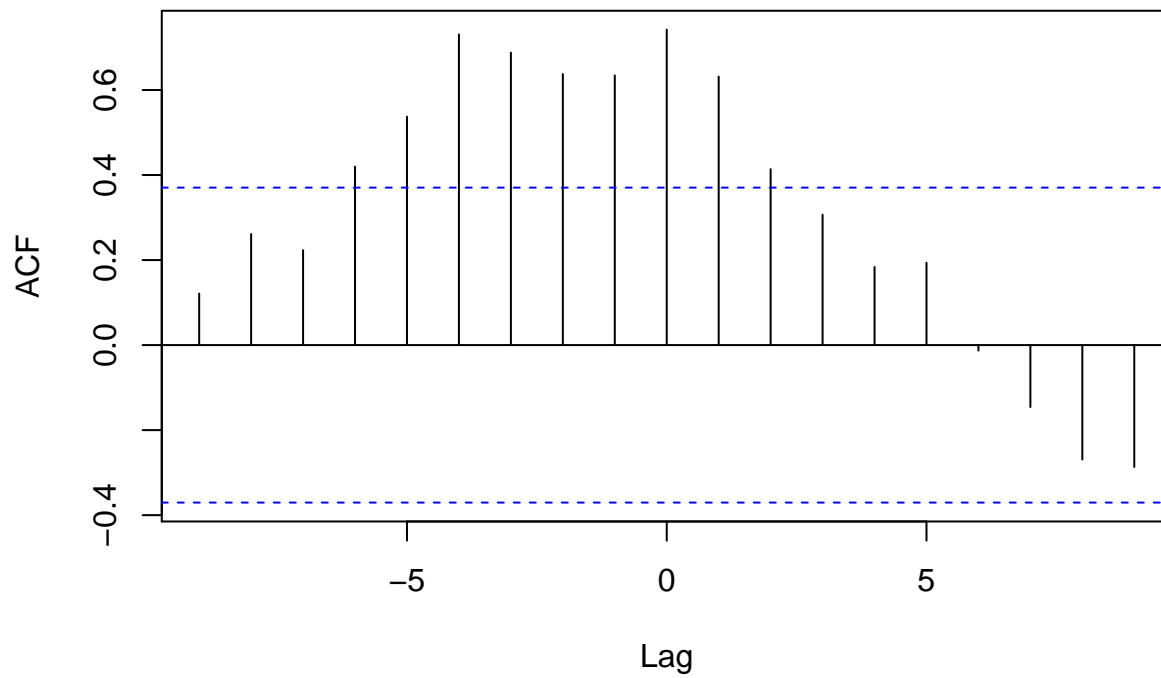
4 wk ahead – 19

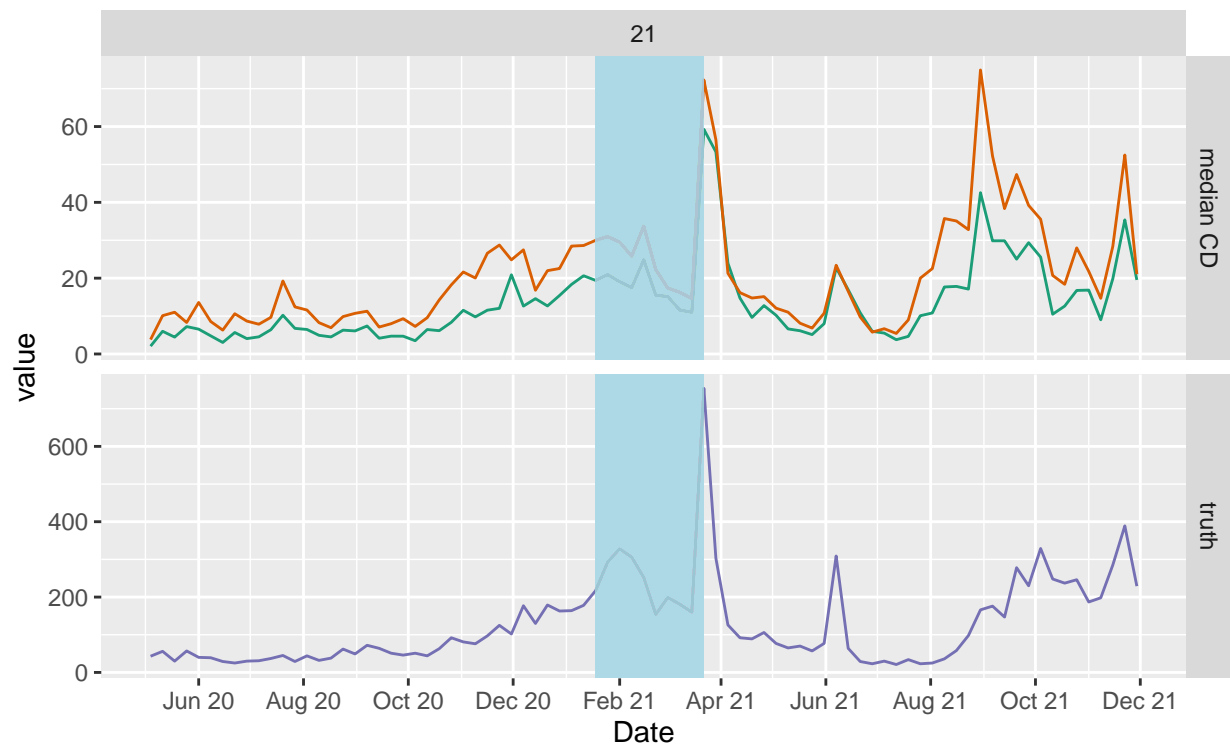


2 wk ahead – 20



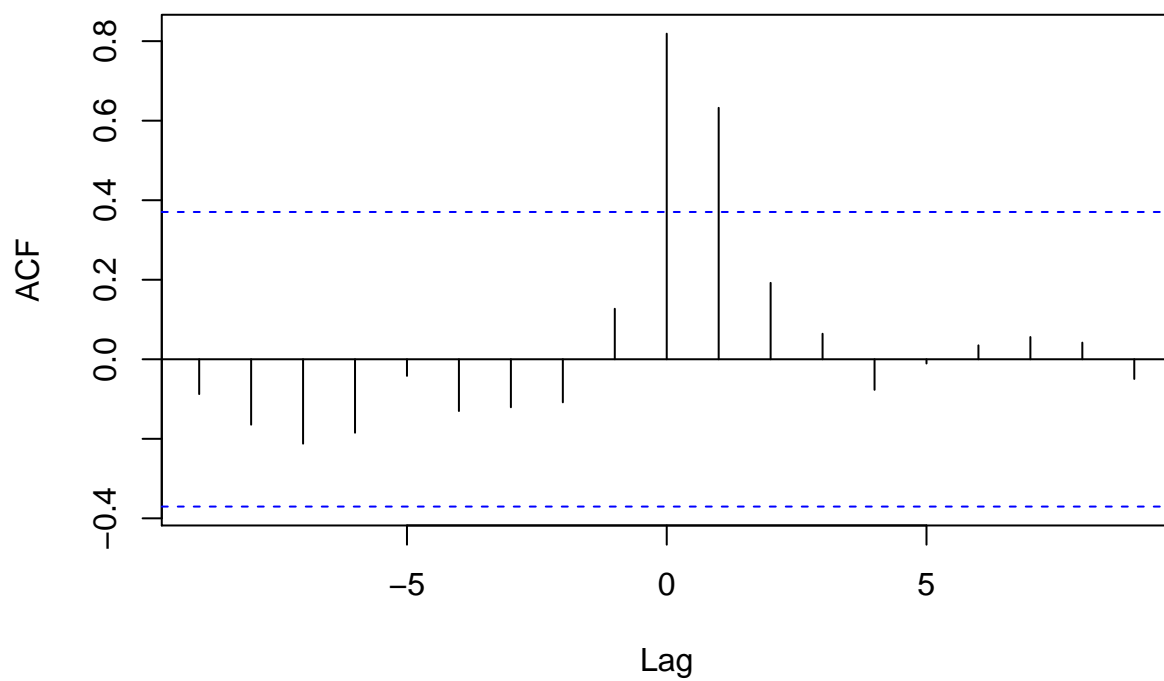
4 wk ahead – 20



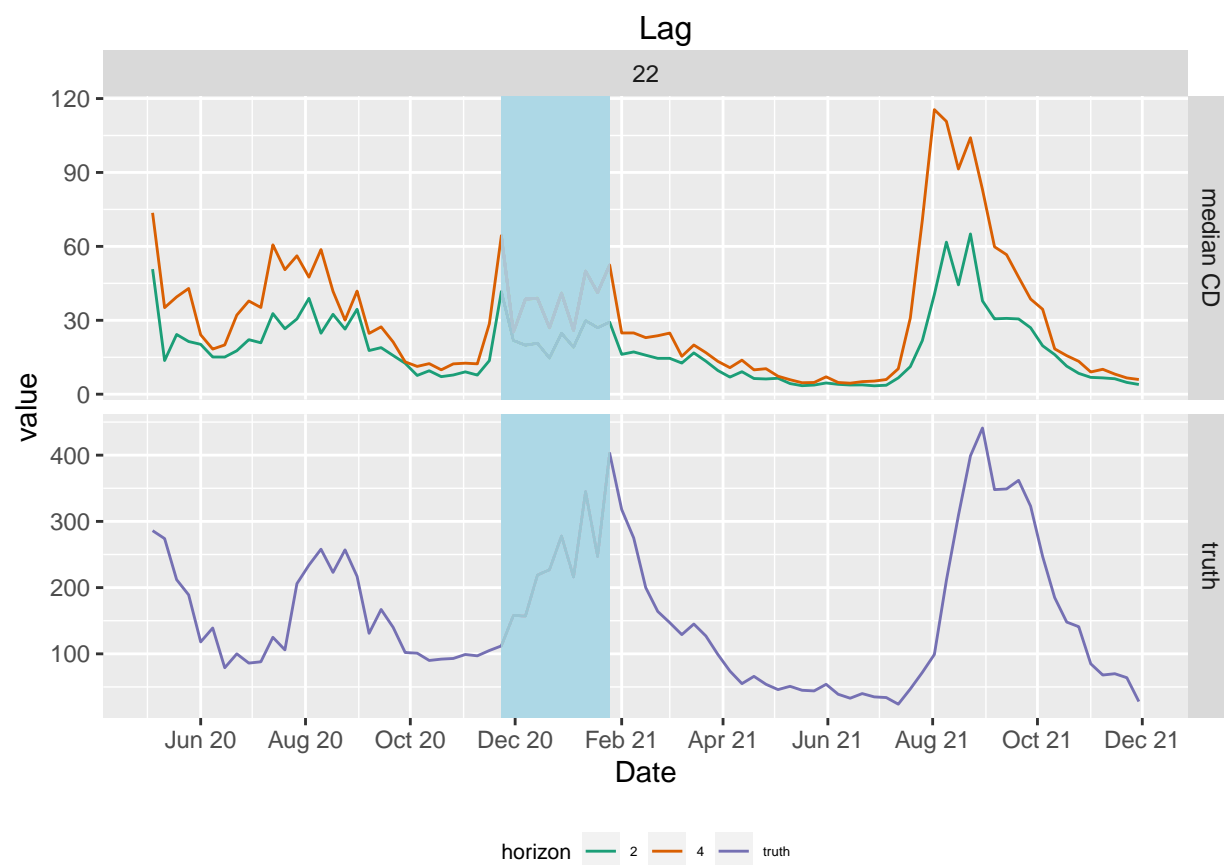
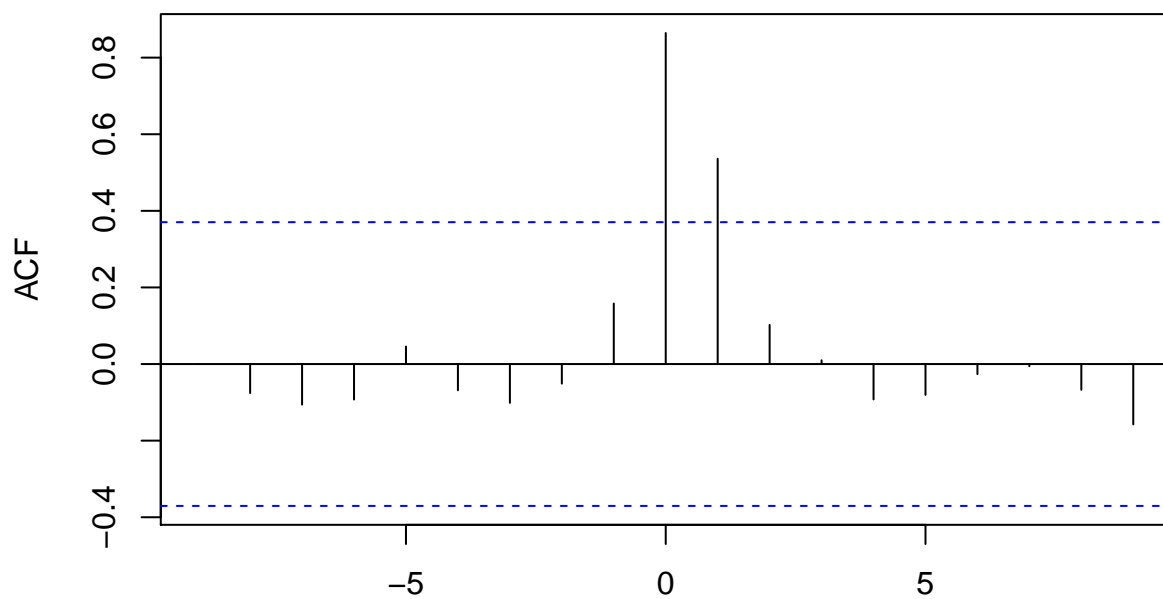


horizon 2 4 truth

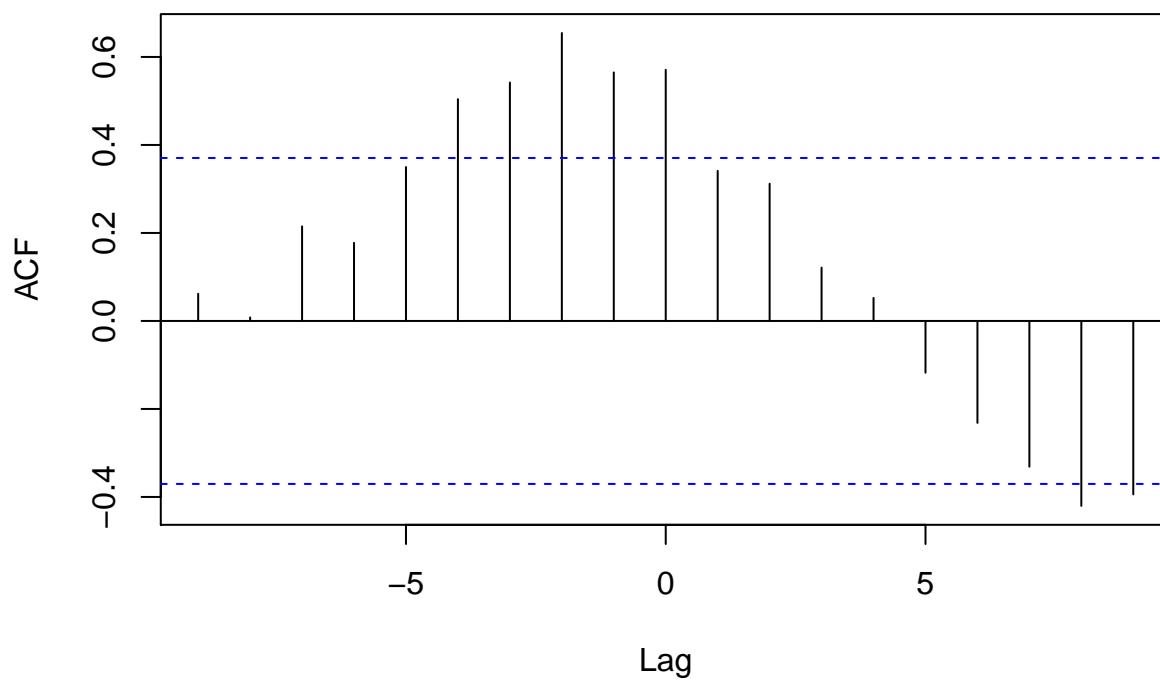
2 wk ahead – 21



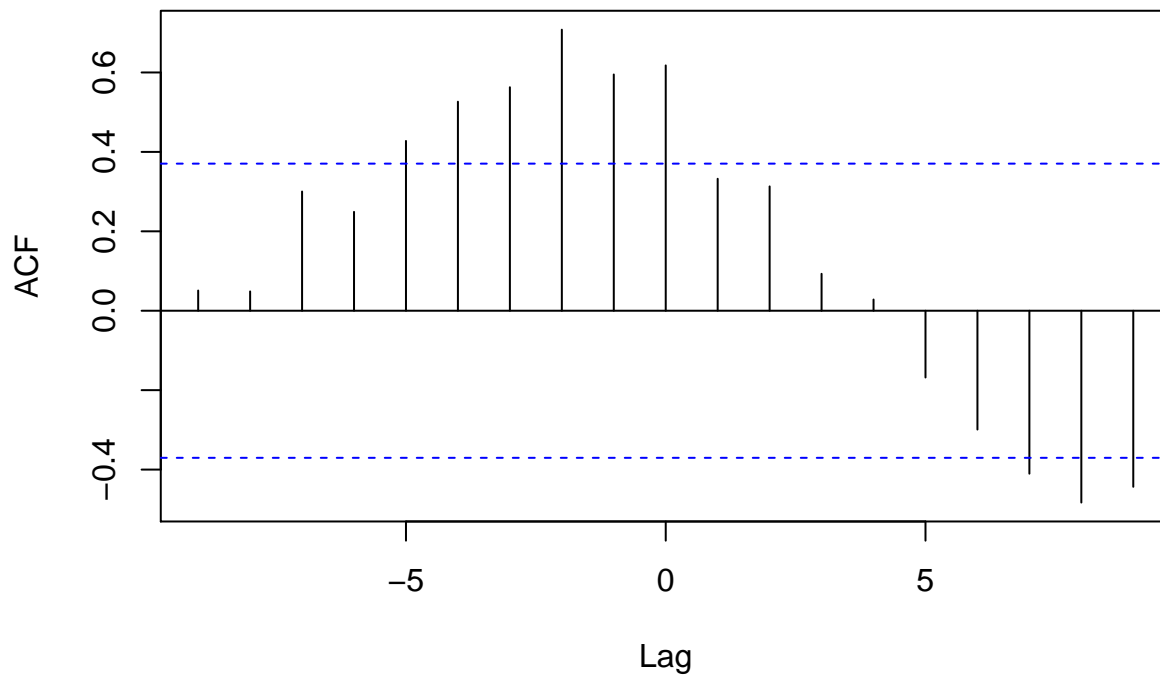
4 wk ahead – 21

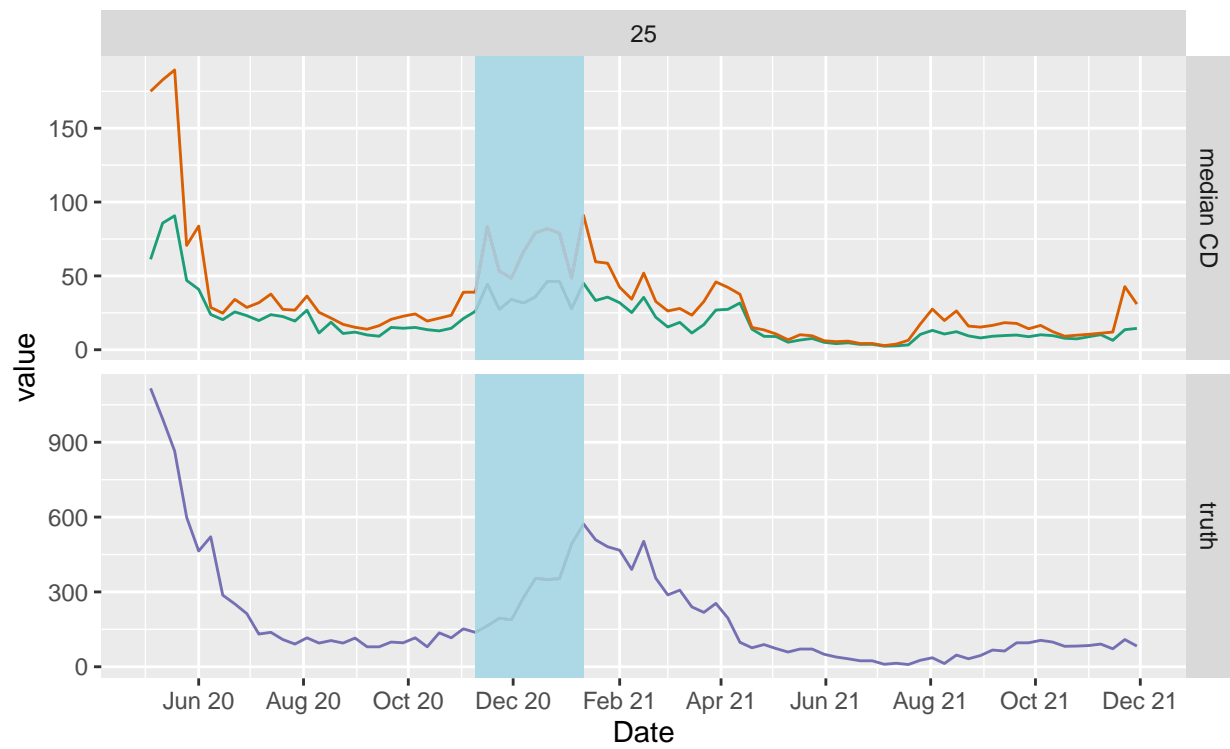


2 wk ahead – 22

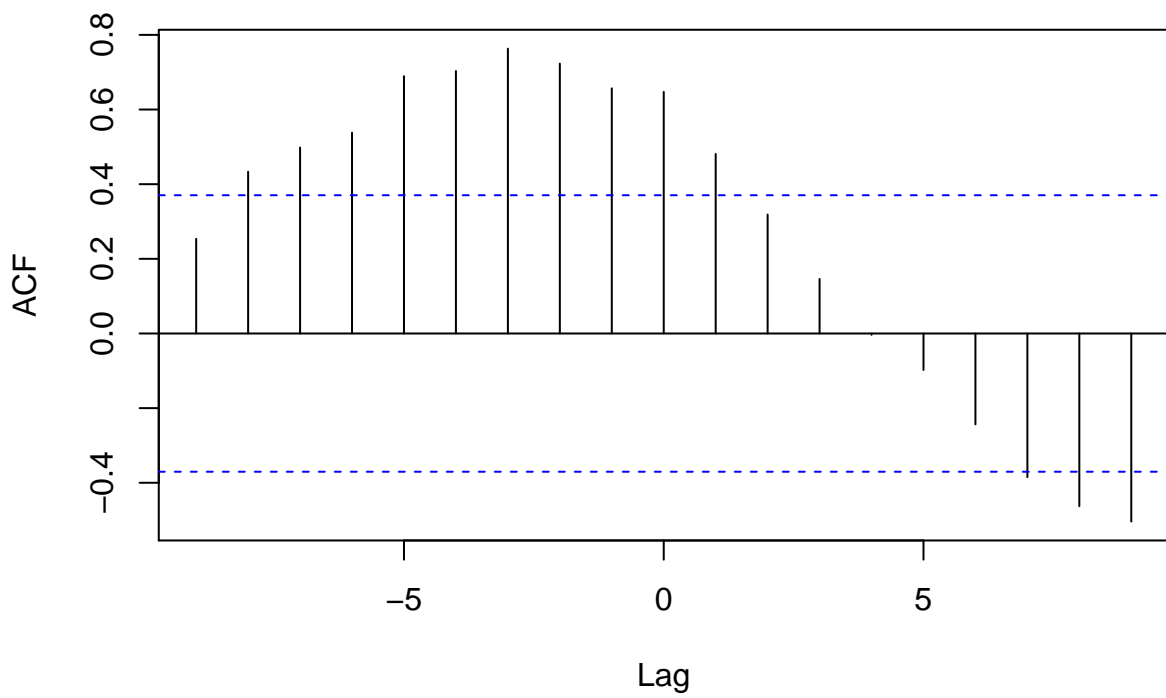


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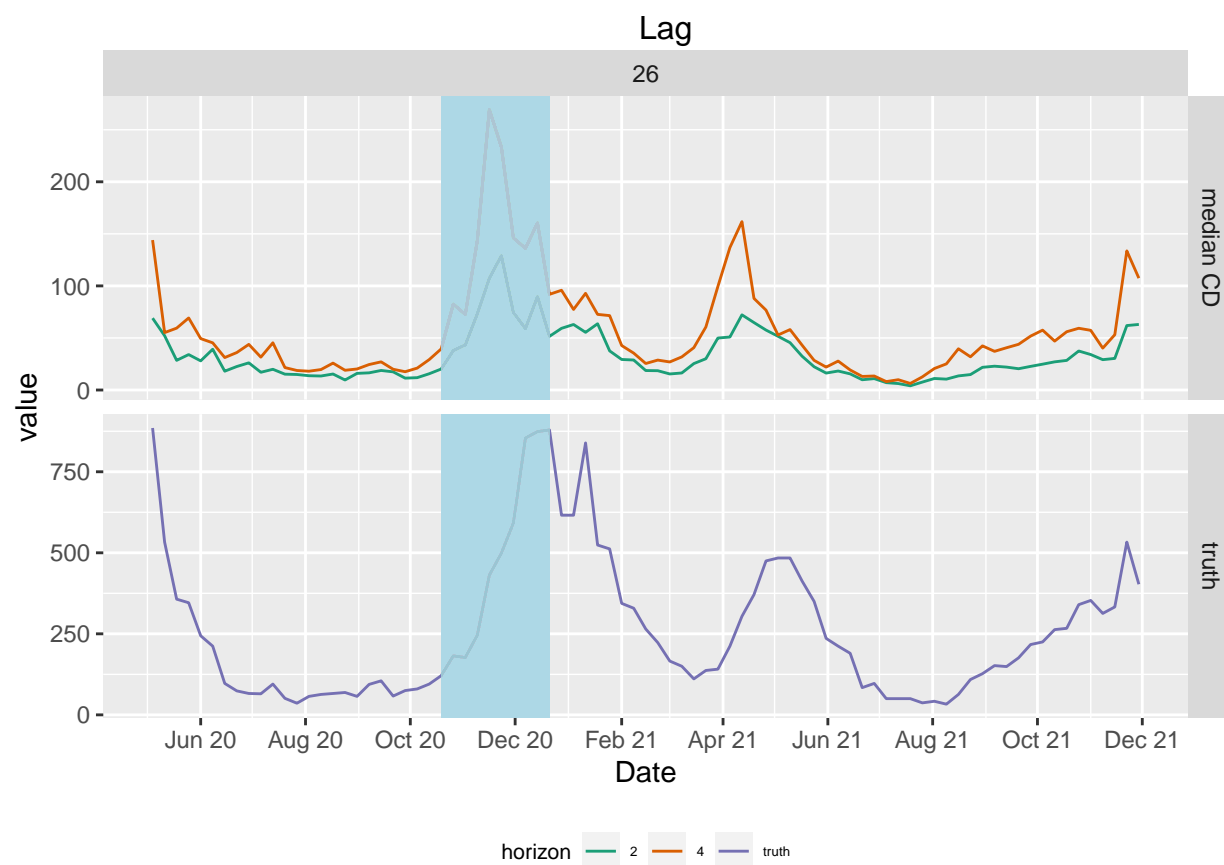
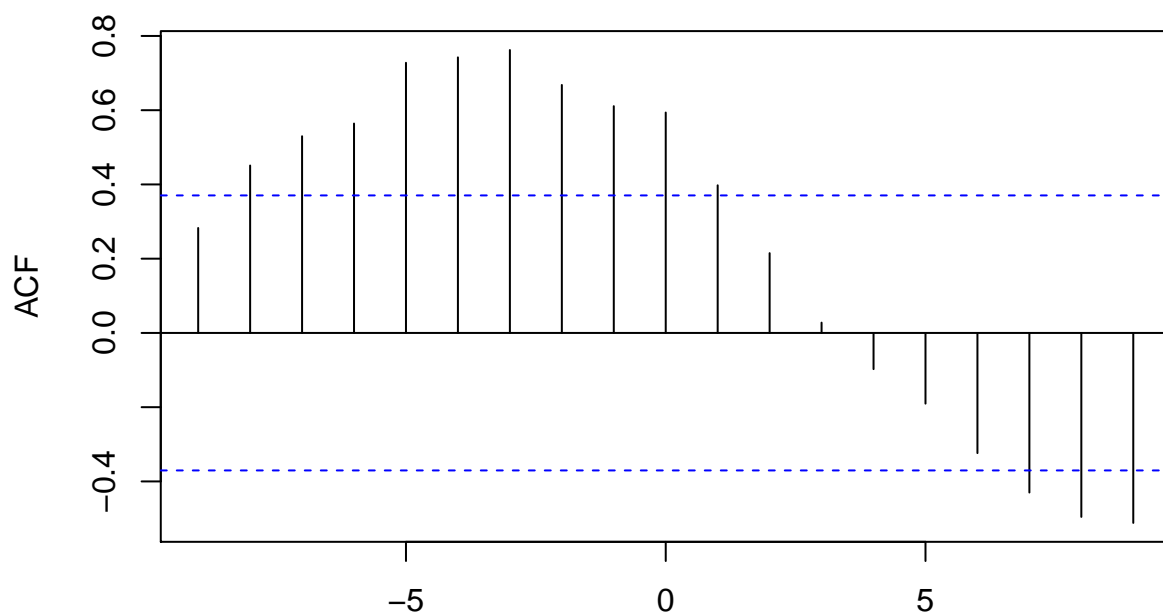




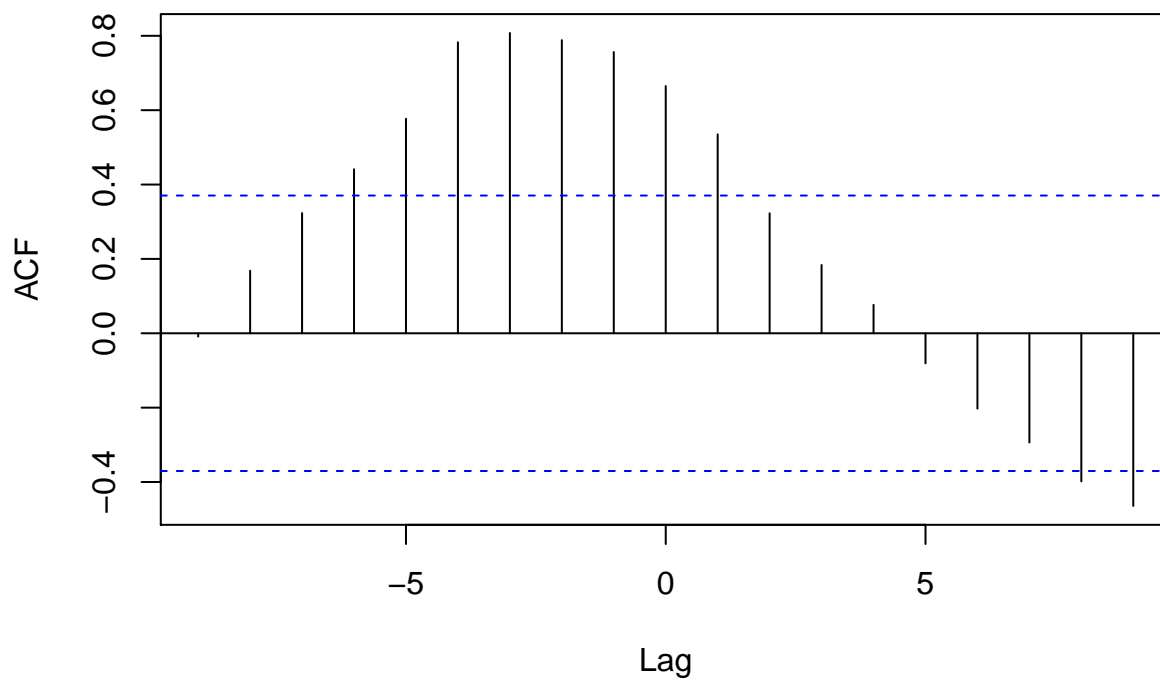
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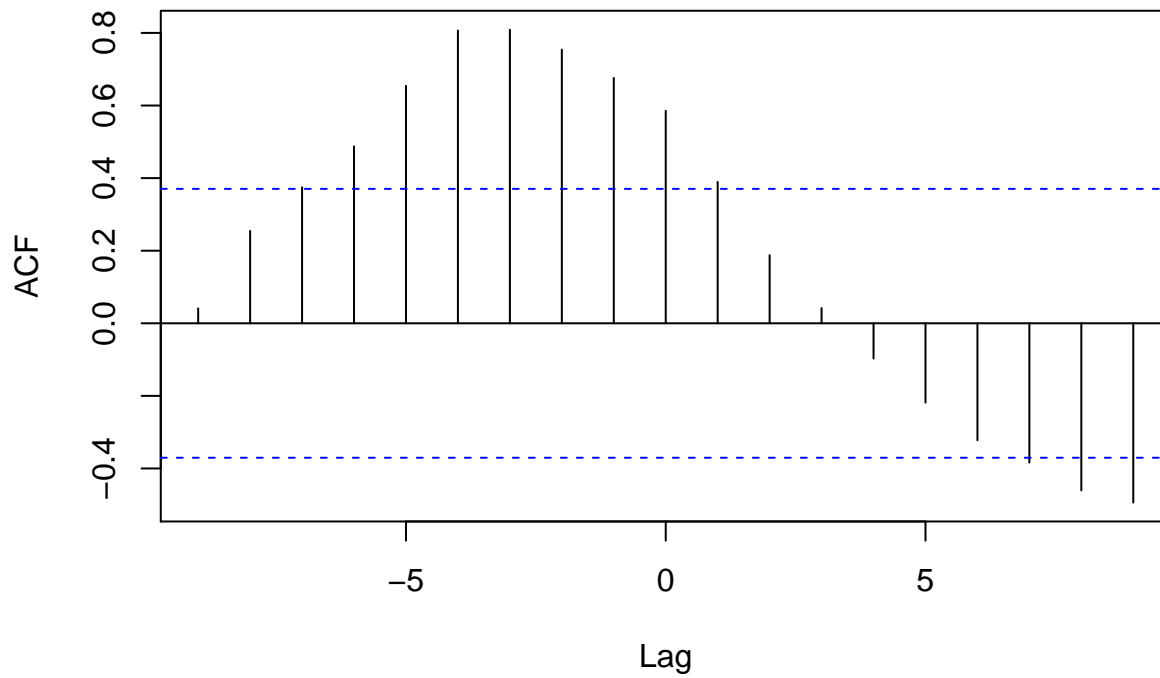
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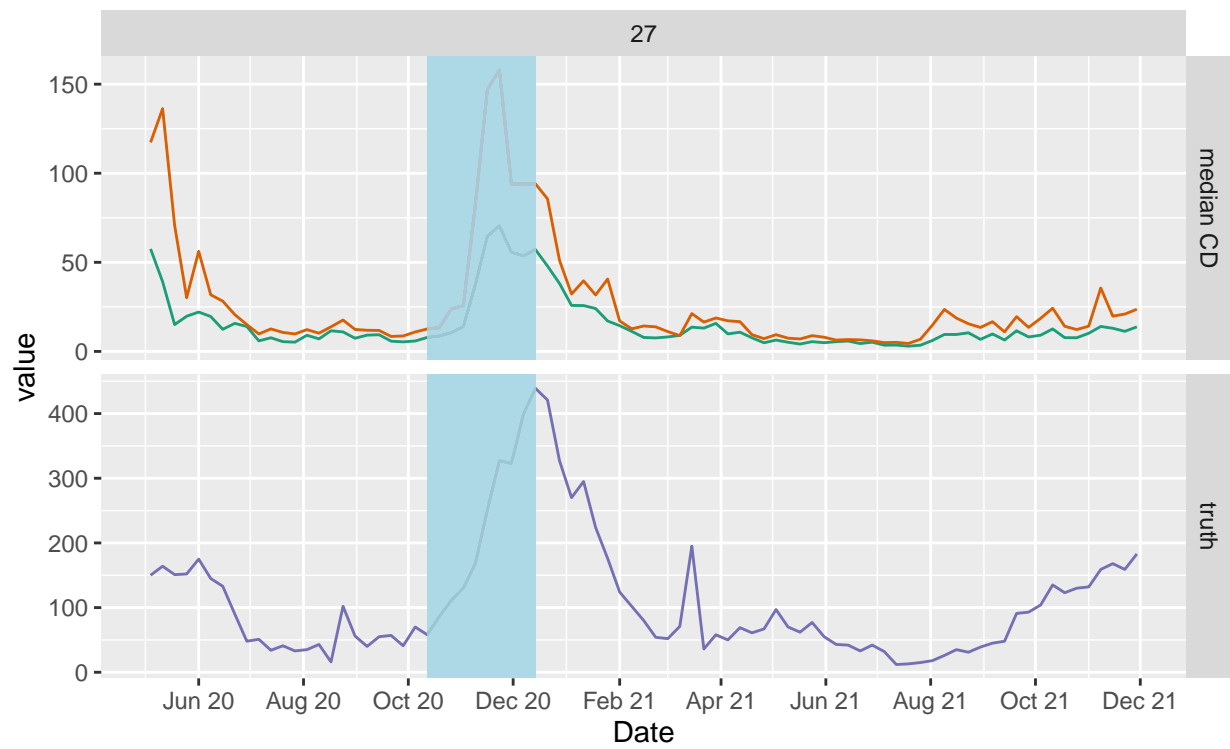


2 wk ahead – 26



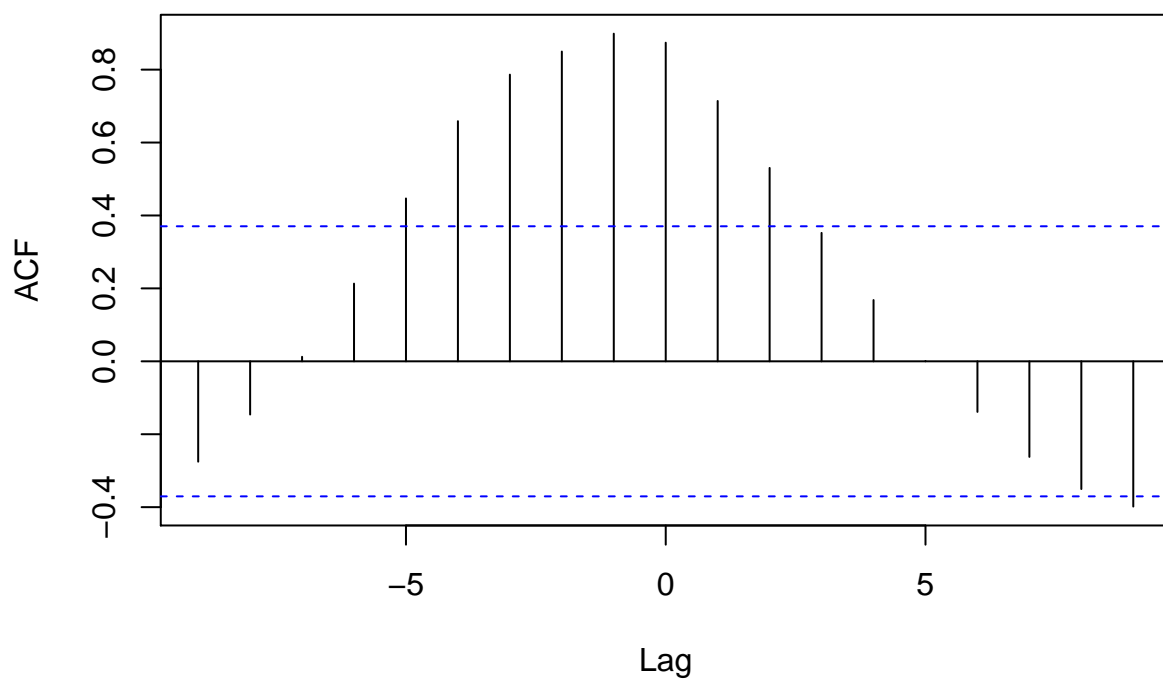
4 wk ahead – 26



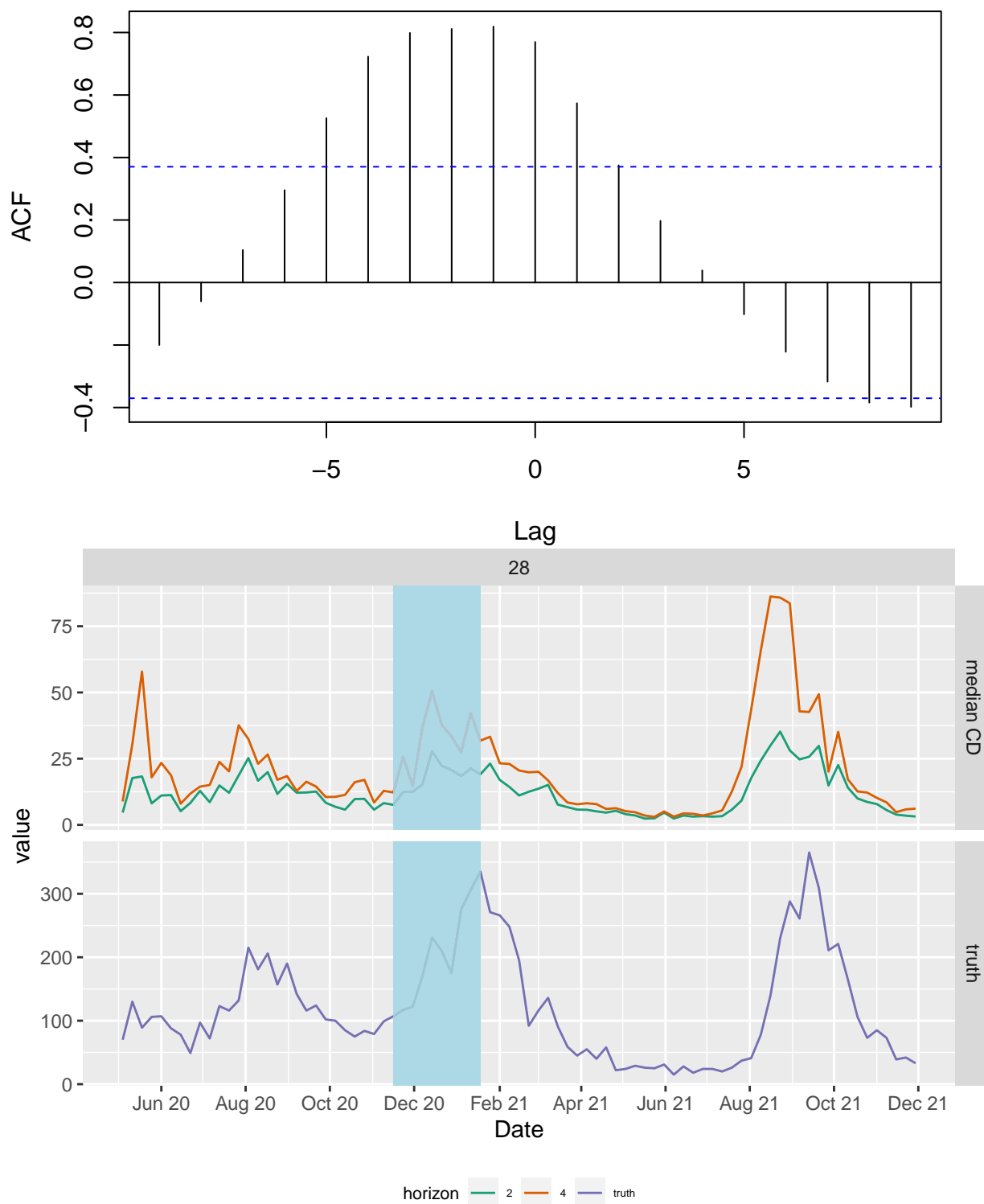


horizon 2 4 truth

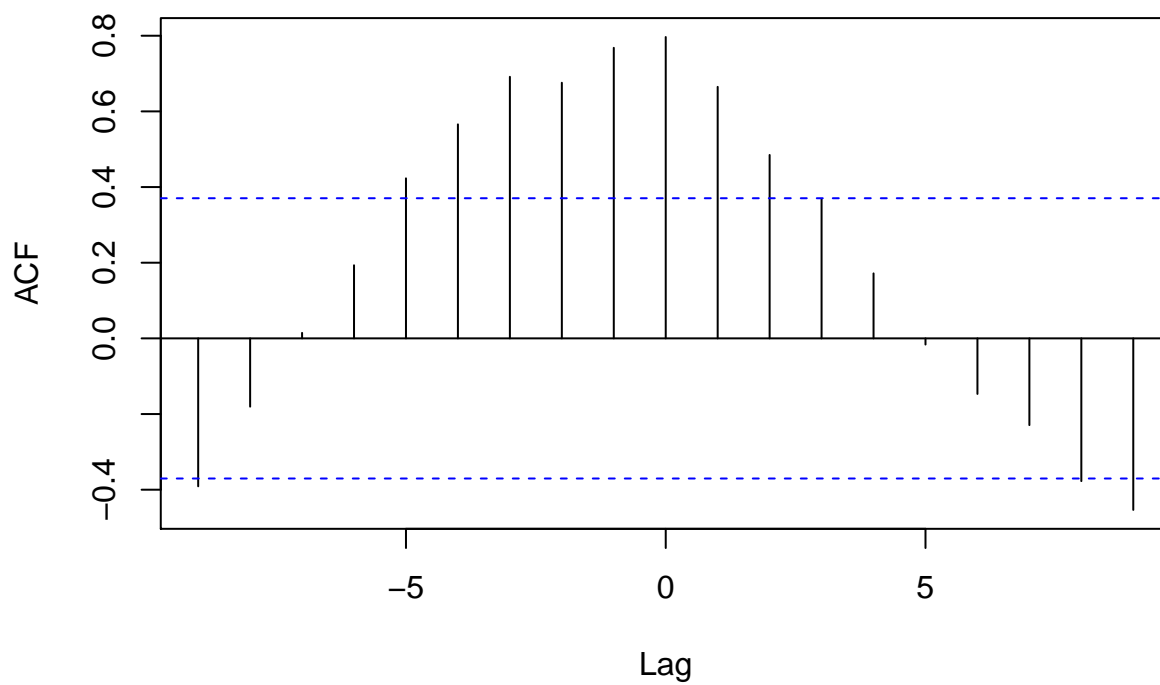
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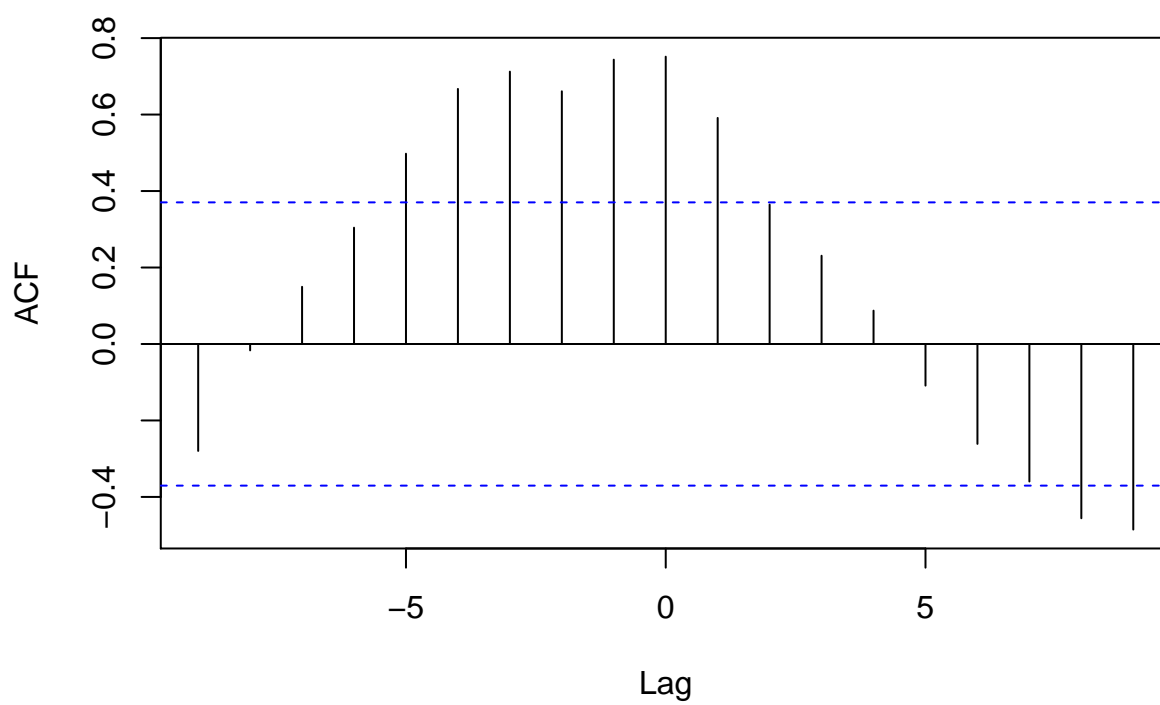
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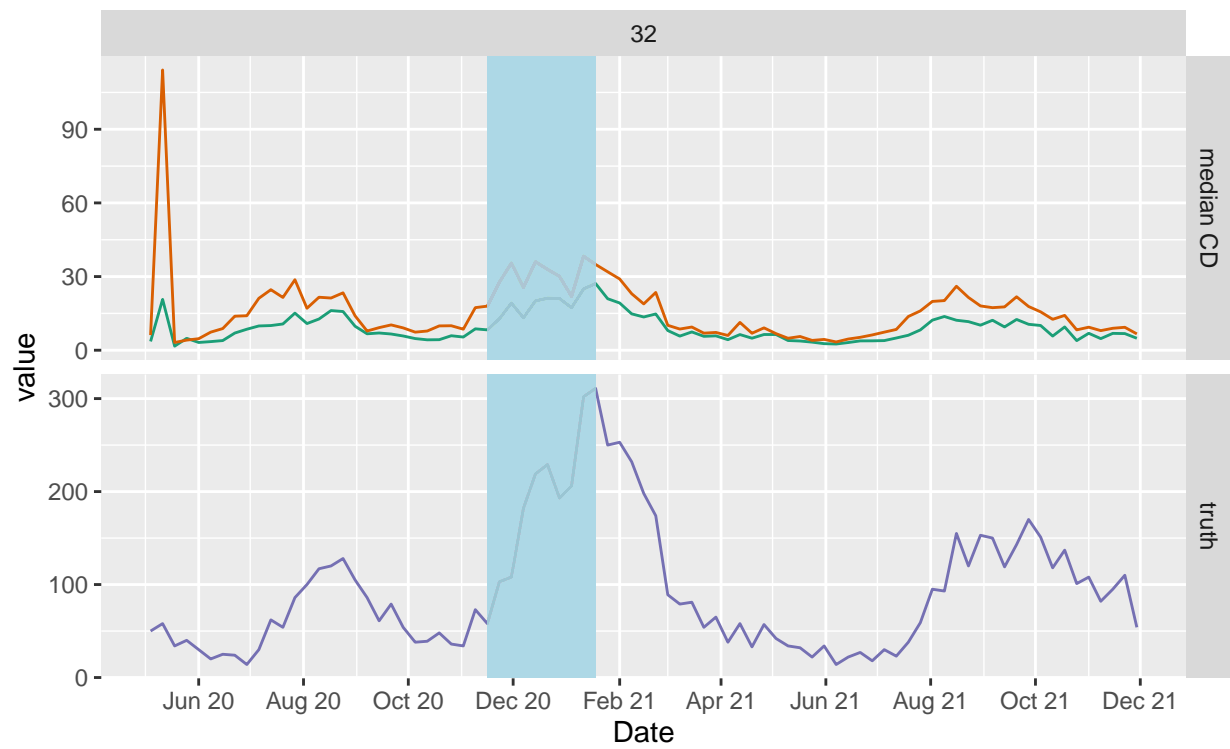


2 wk ahead – 28



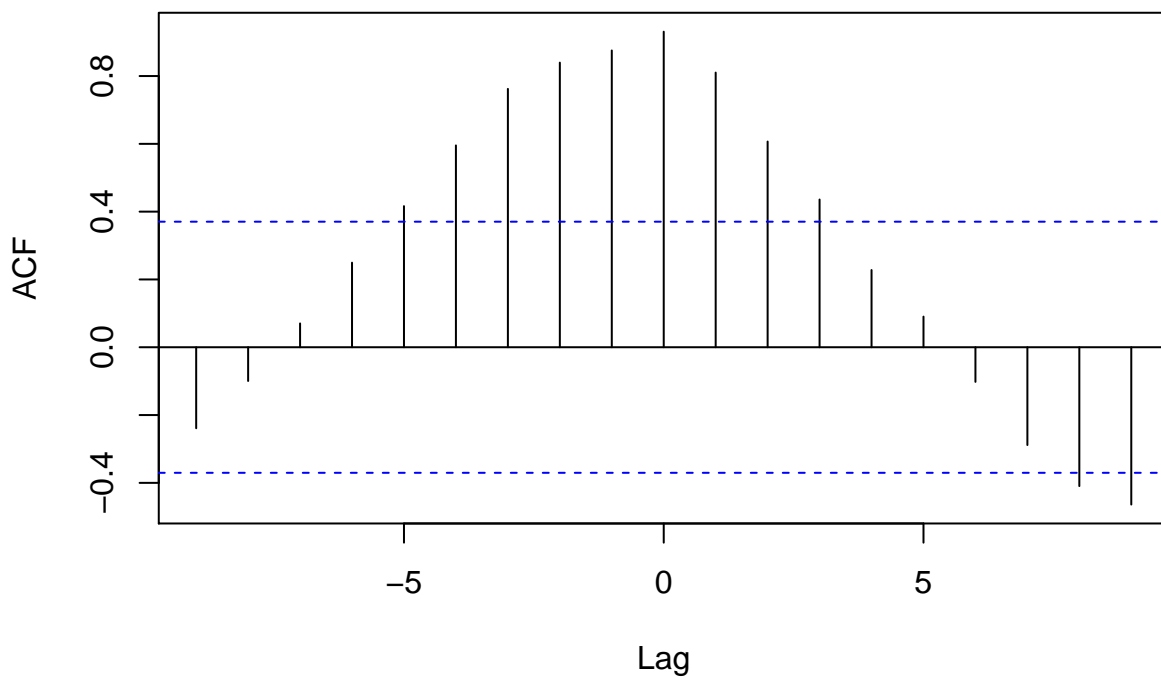
4 wk ahead – 28



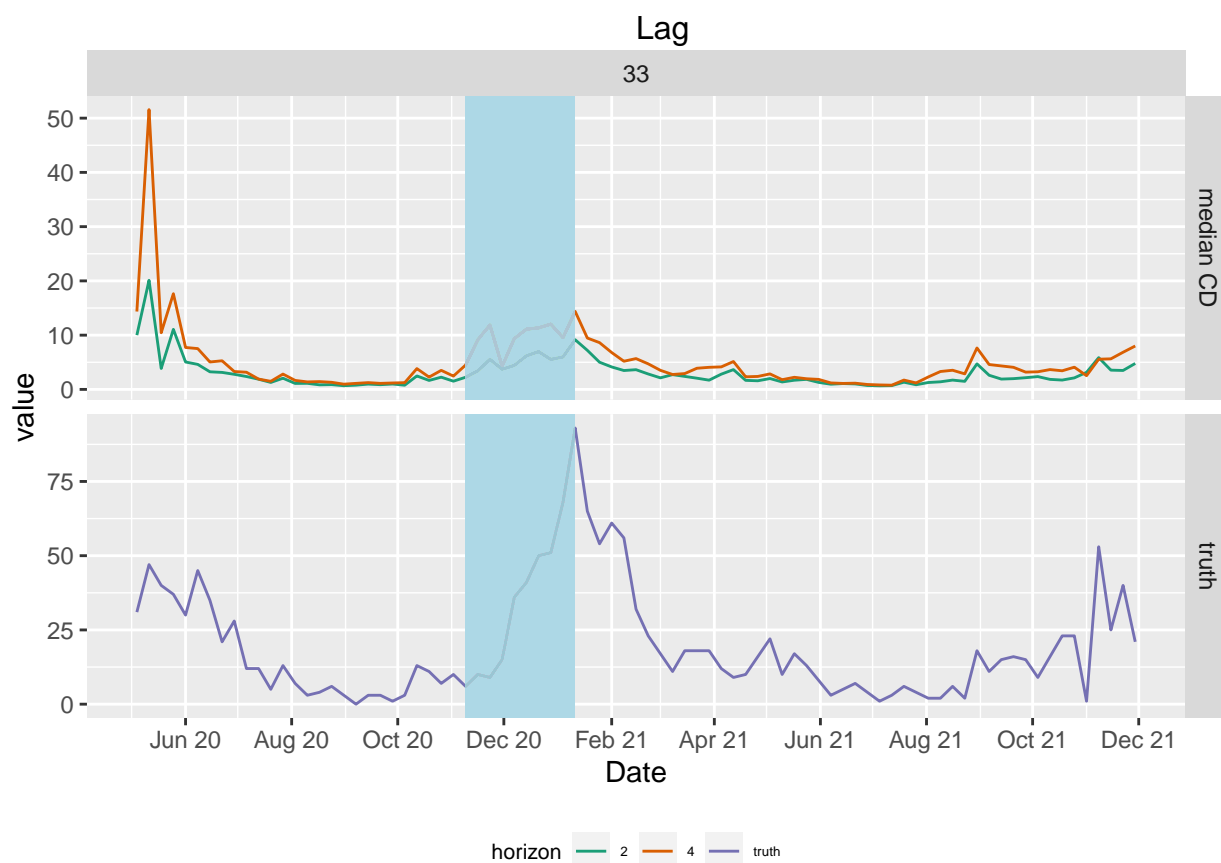
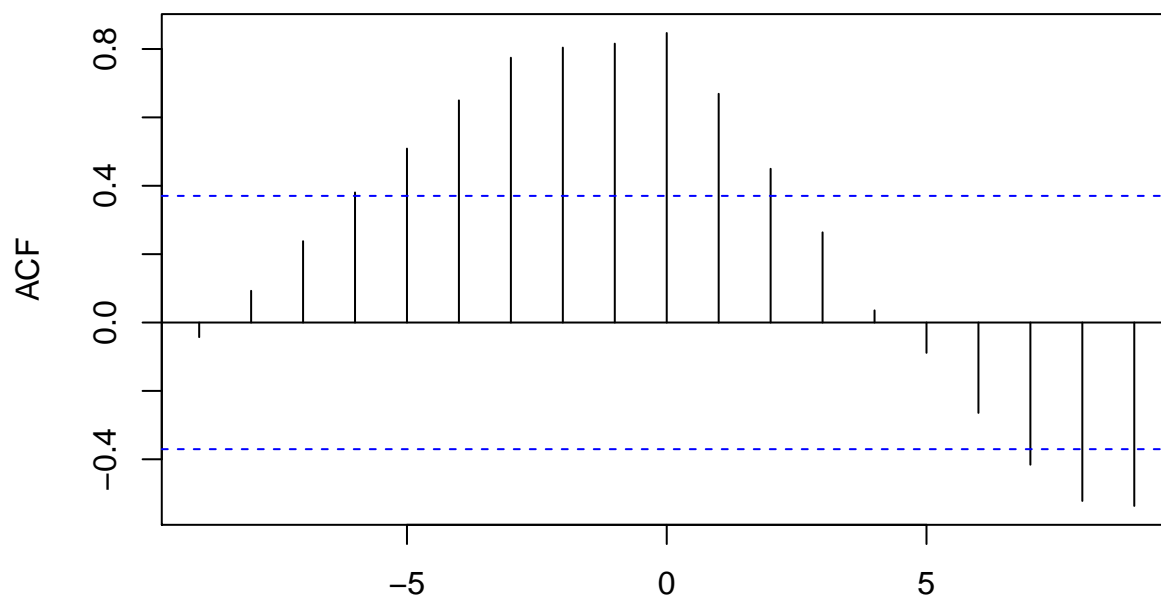


horizon 2 4 truth

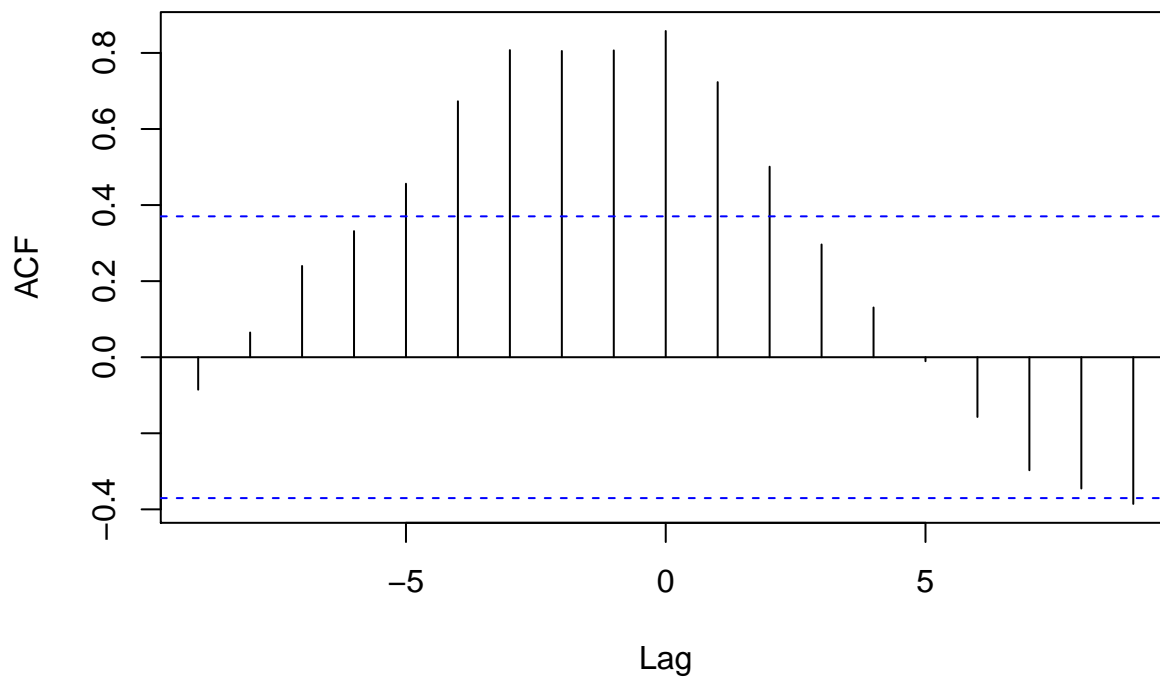
2 wk ahead – 32



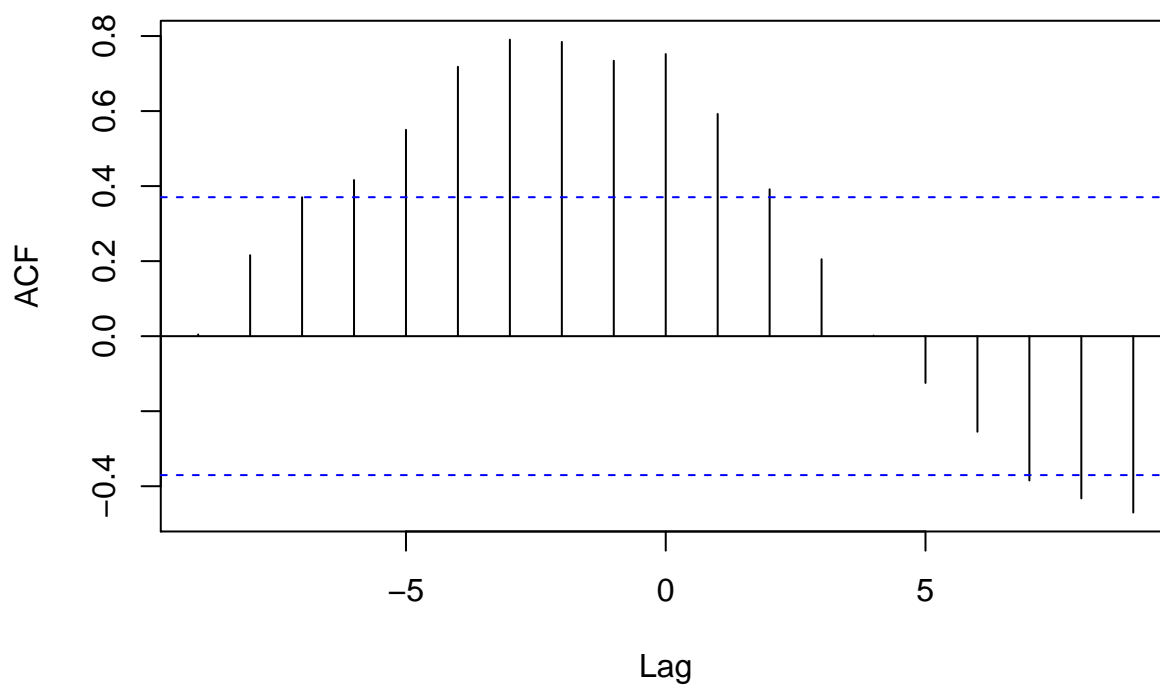
4 wk ahead – 32

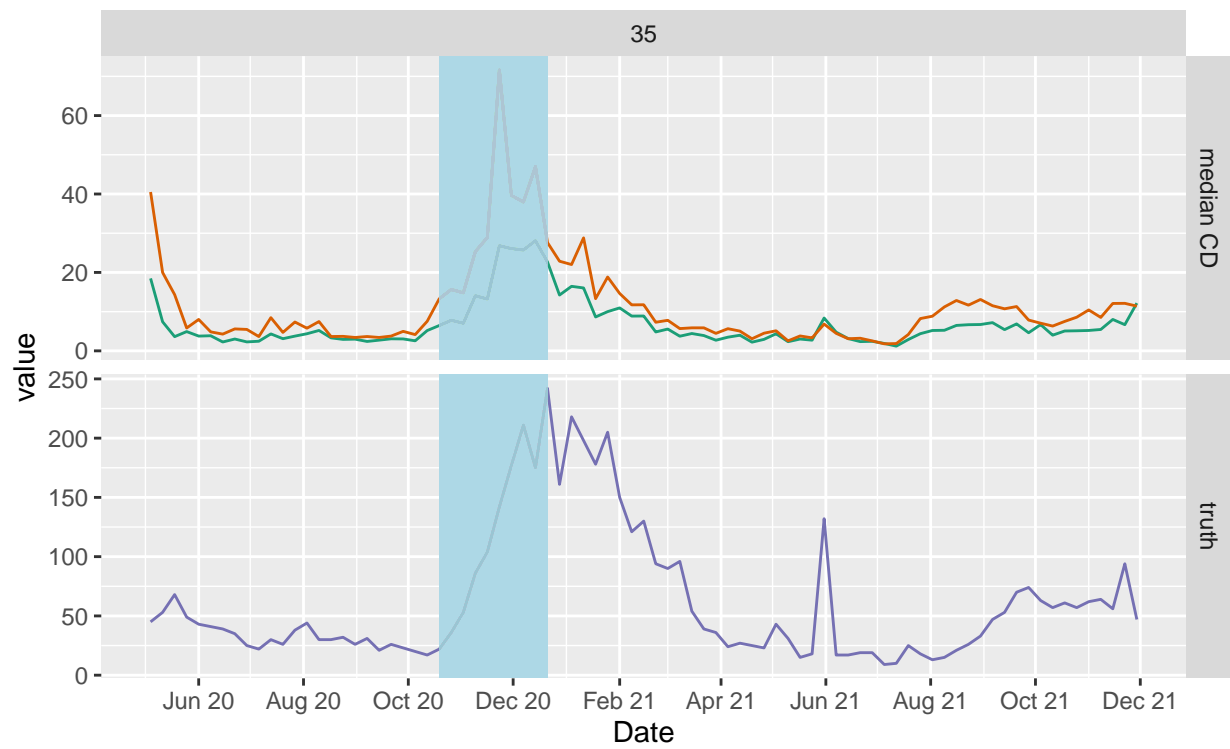


2 wk ahead – 33

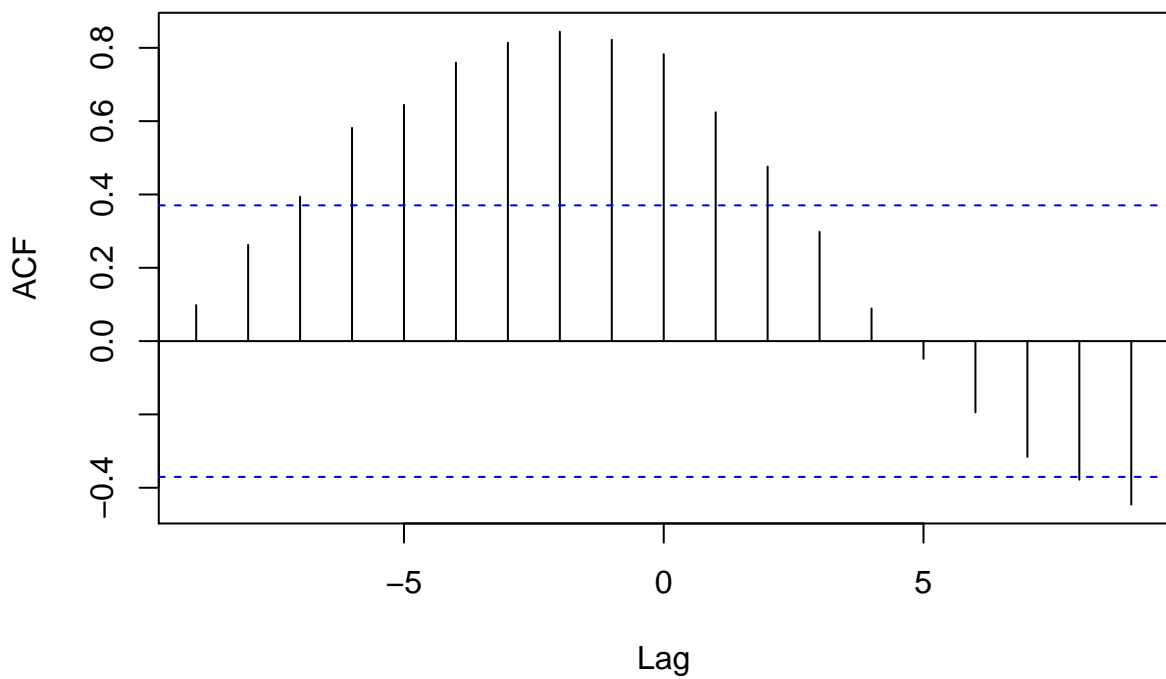


4 wk ahead – 33

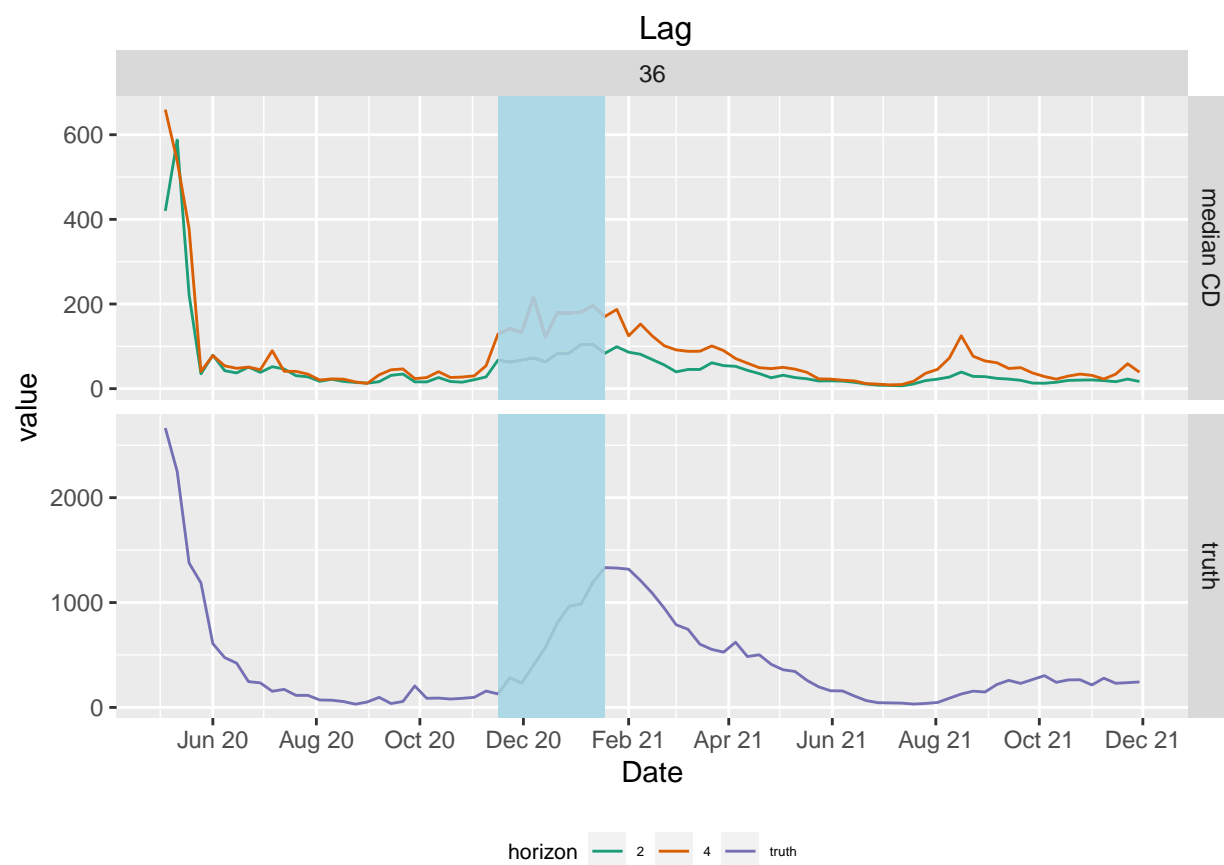
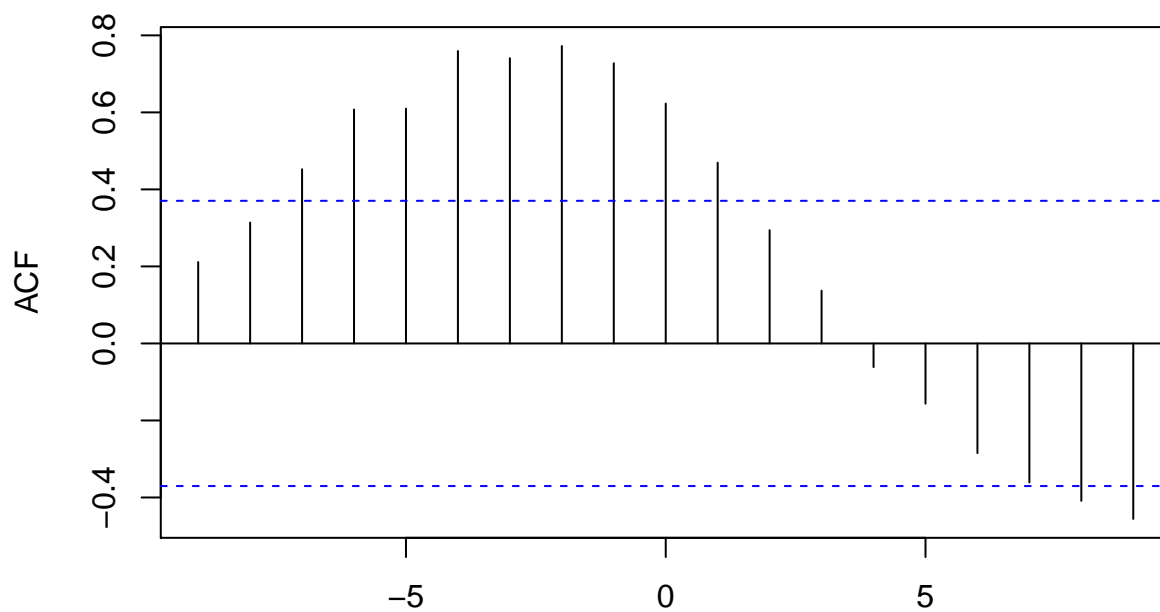




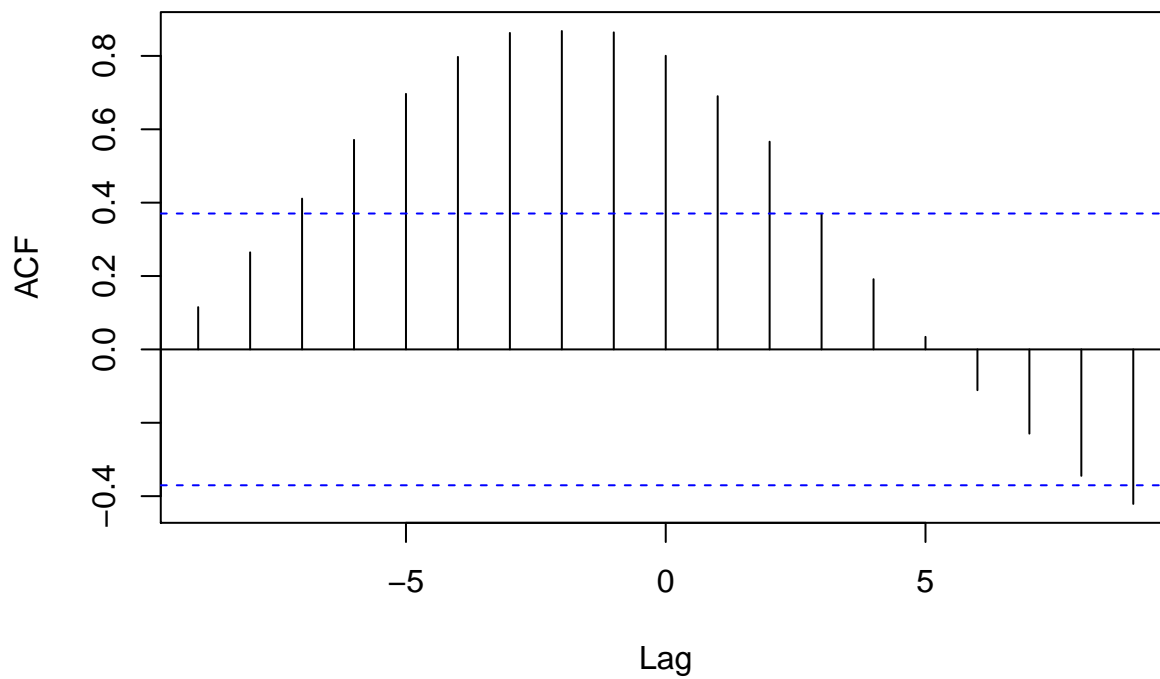
2 wk ahead – 35



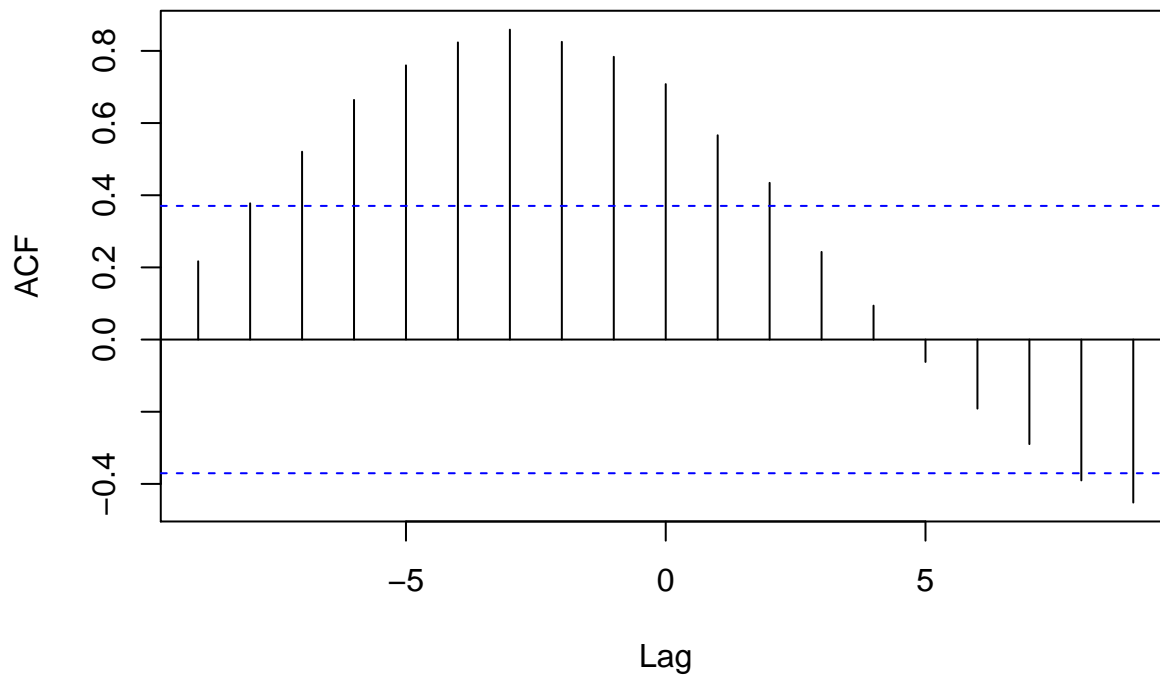
4 wk ahead – 35

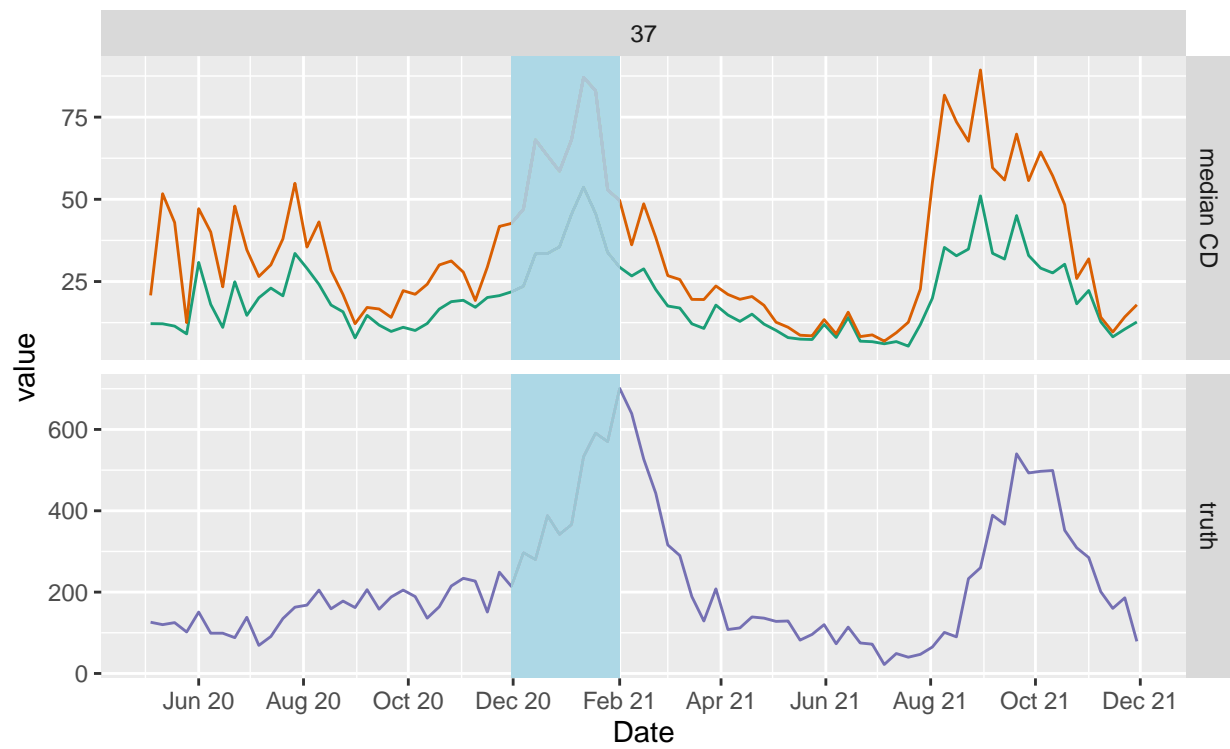


2 wk ahead – 36



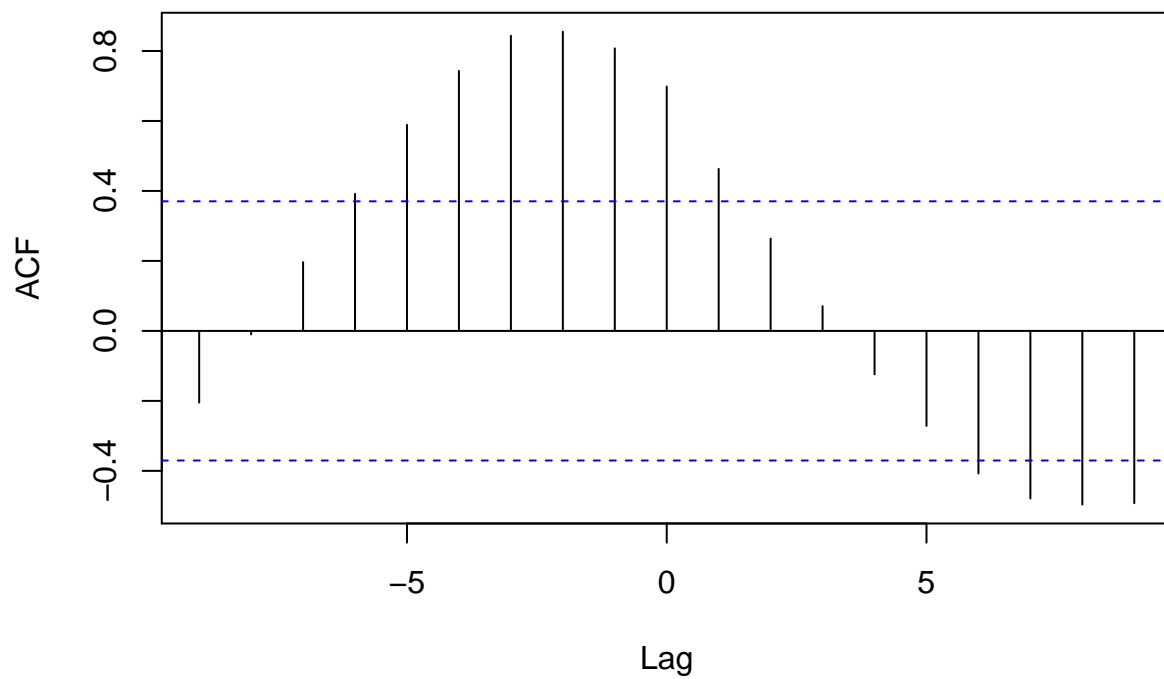
4 wk ahead – 36



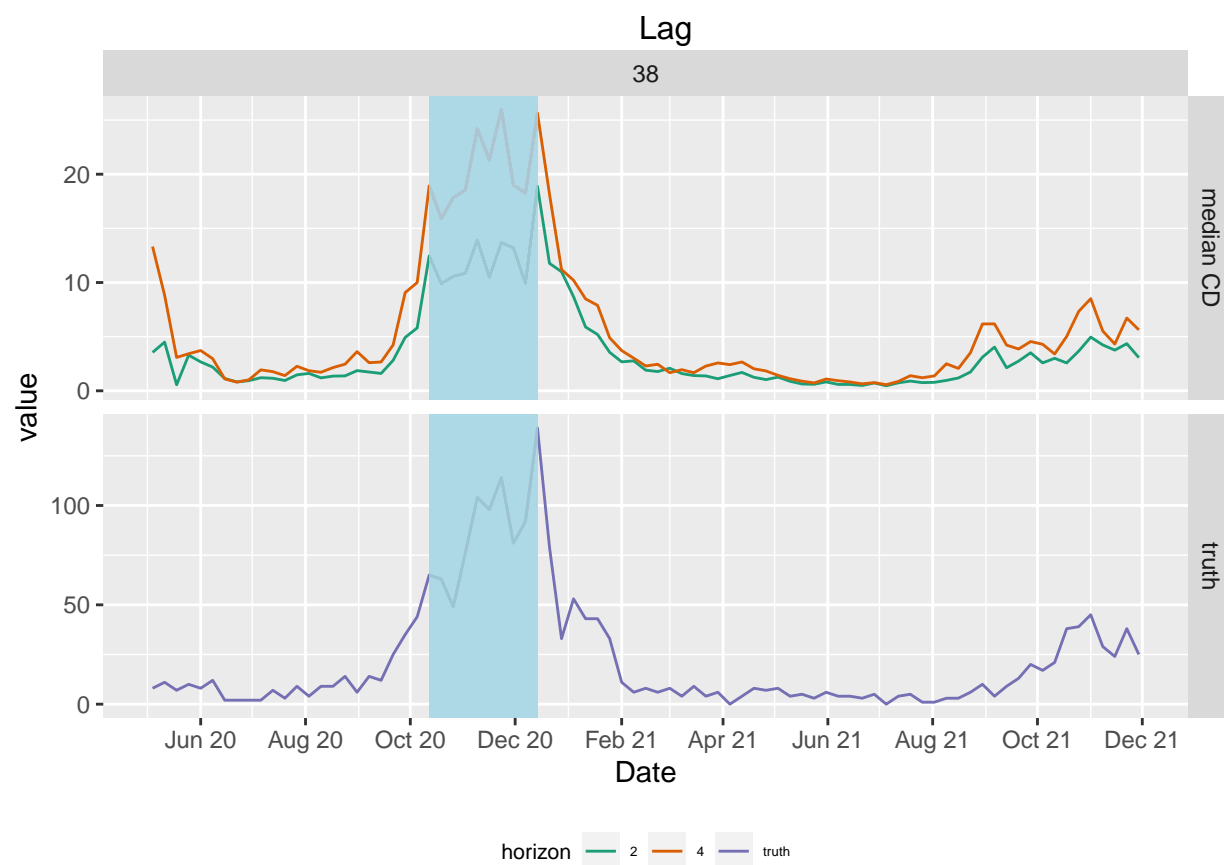
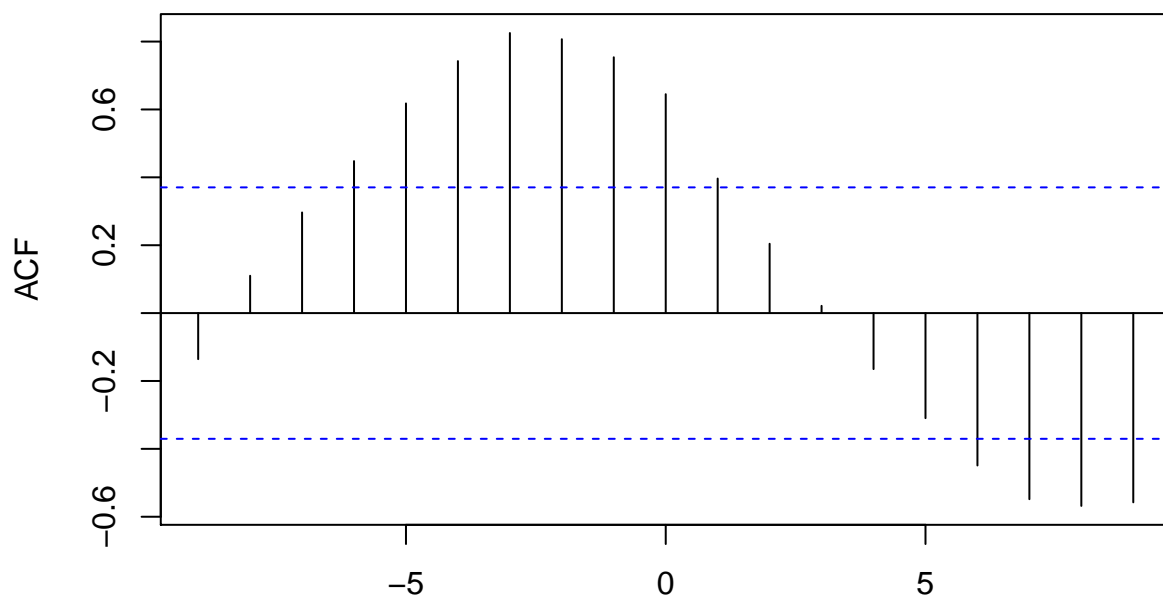


horizon 2 4 truth

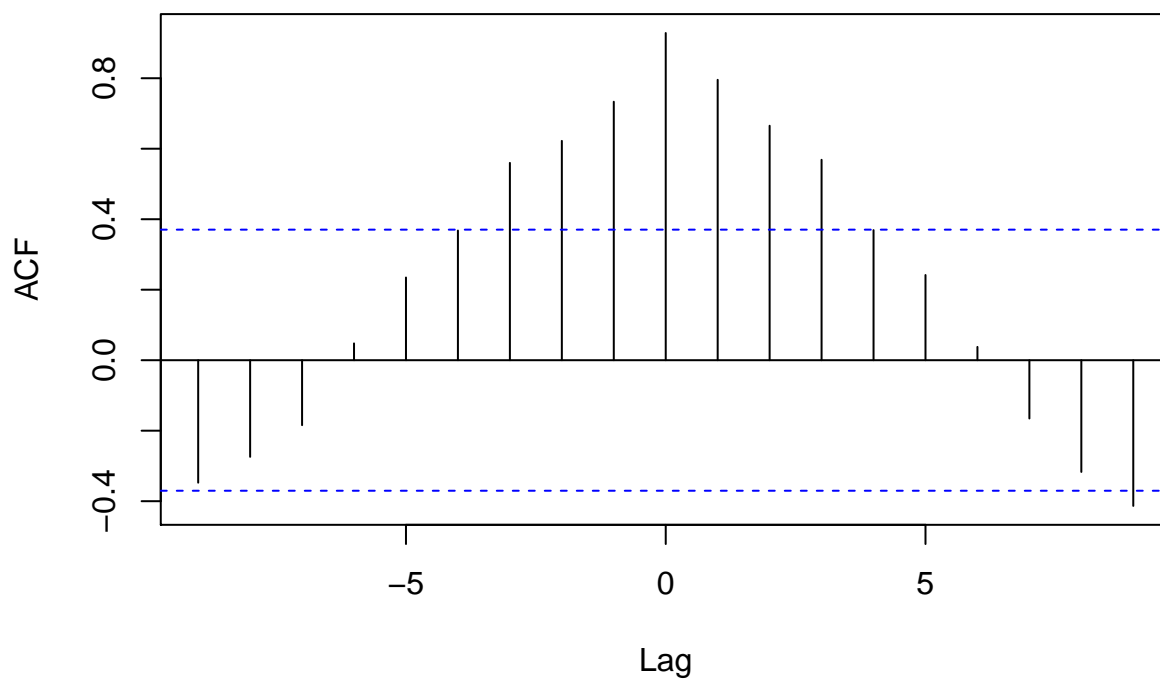
2 wk ahead – 37



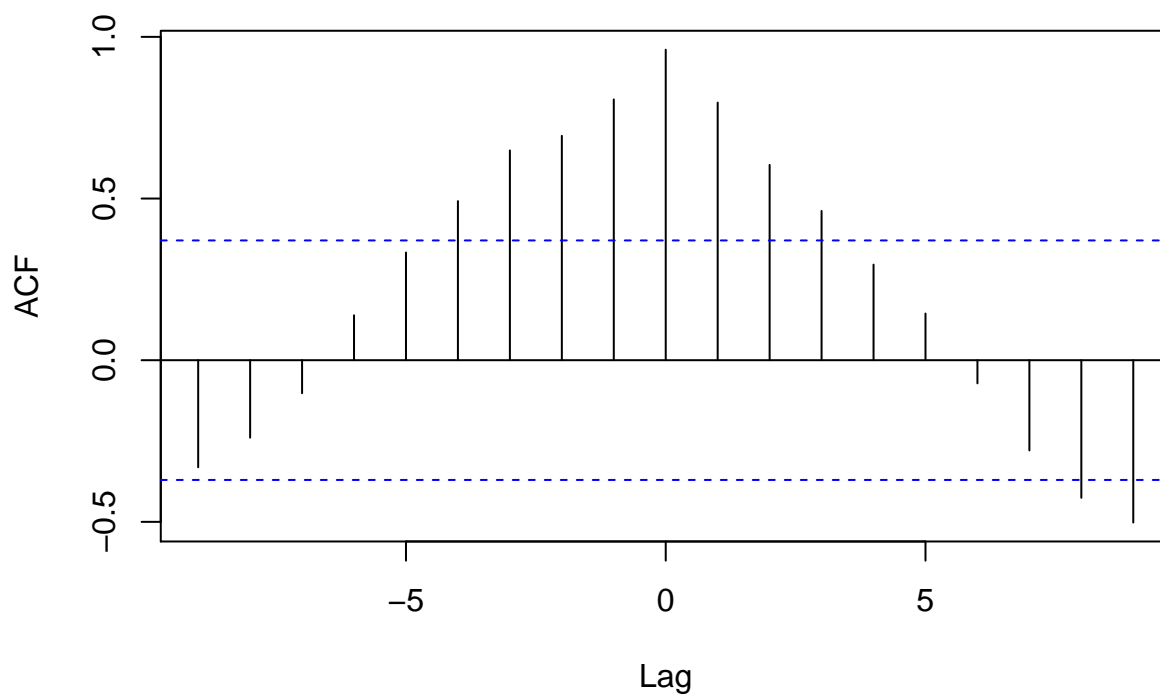
4 wk ahead – 37

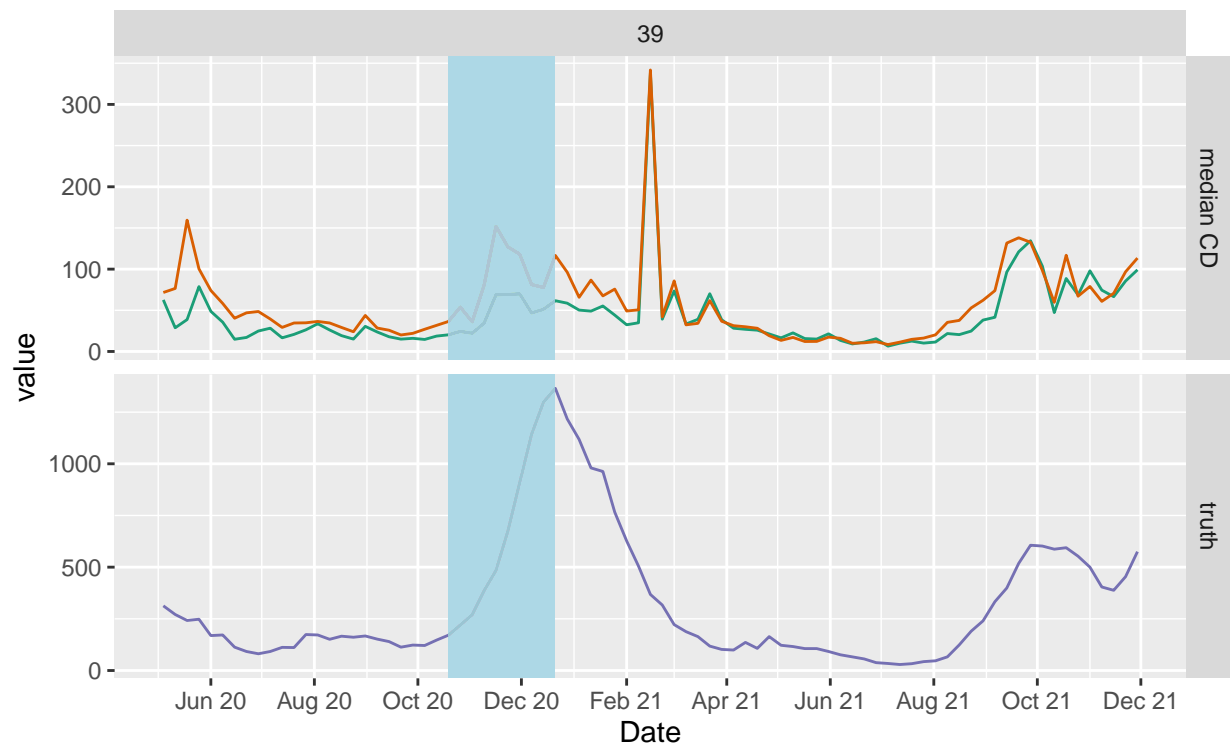


2 wk ahead – 38



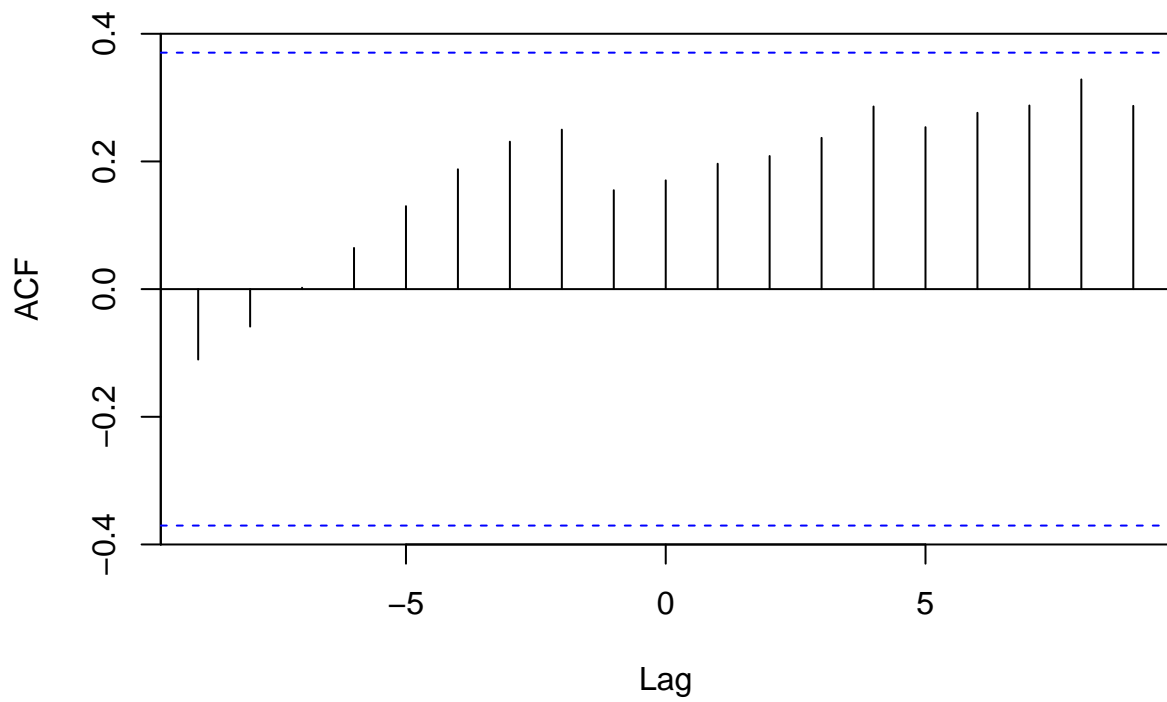
4 wk ahead – 38



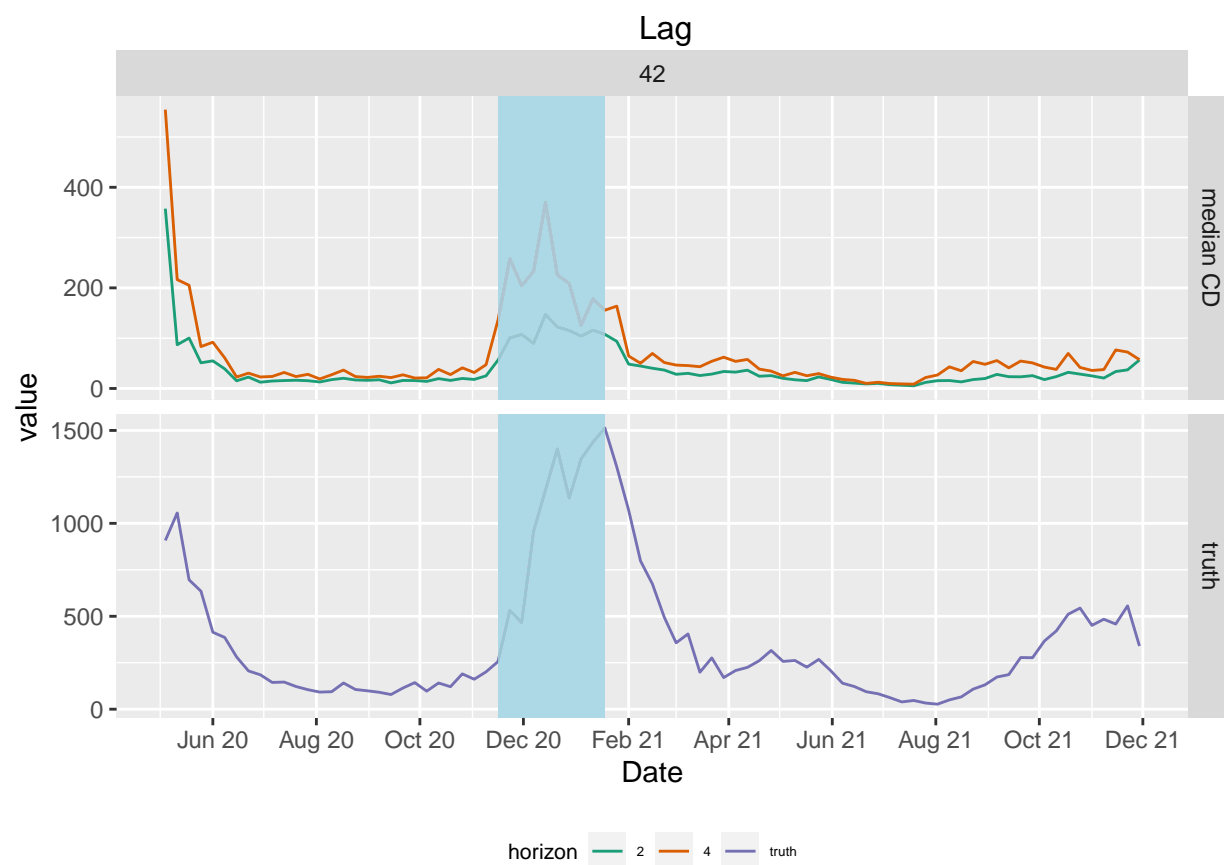
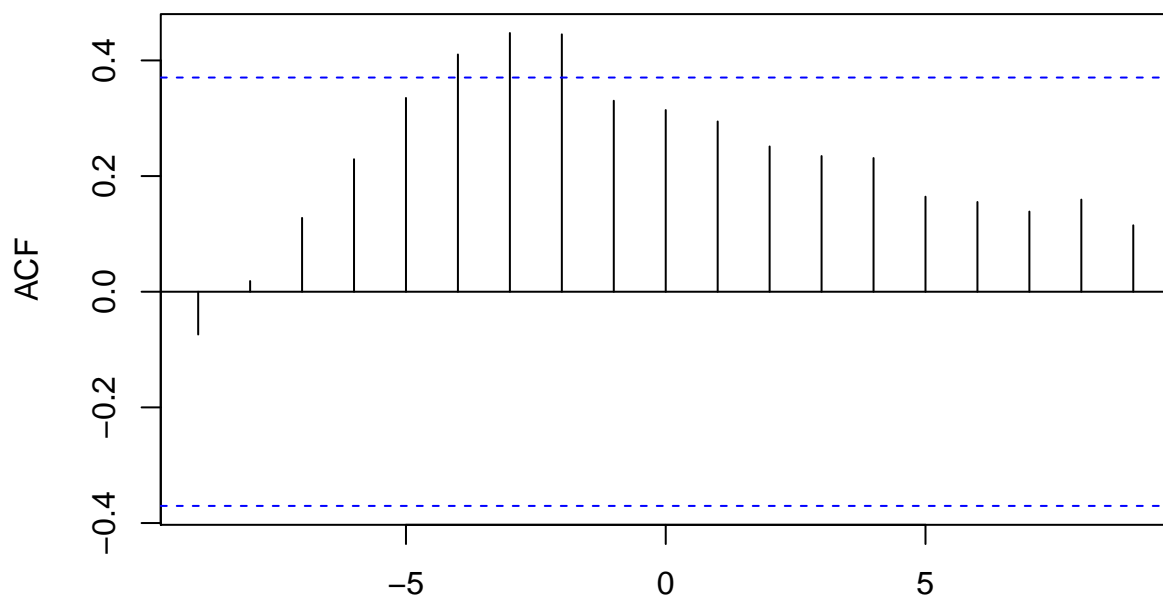


horizon 2 4 truth

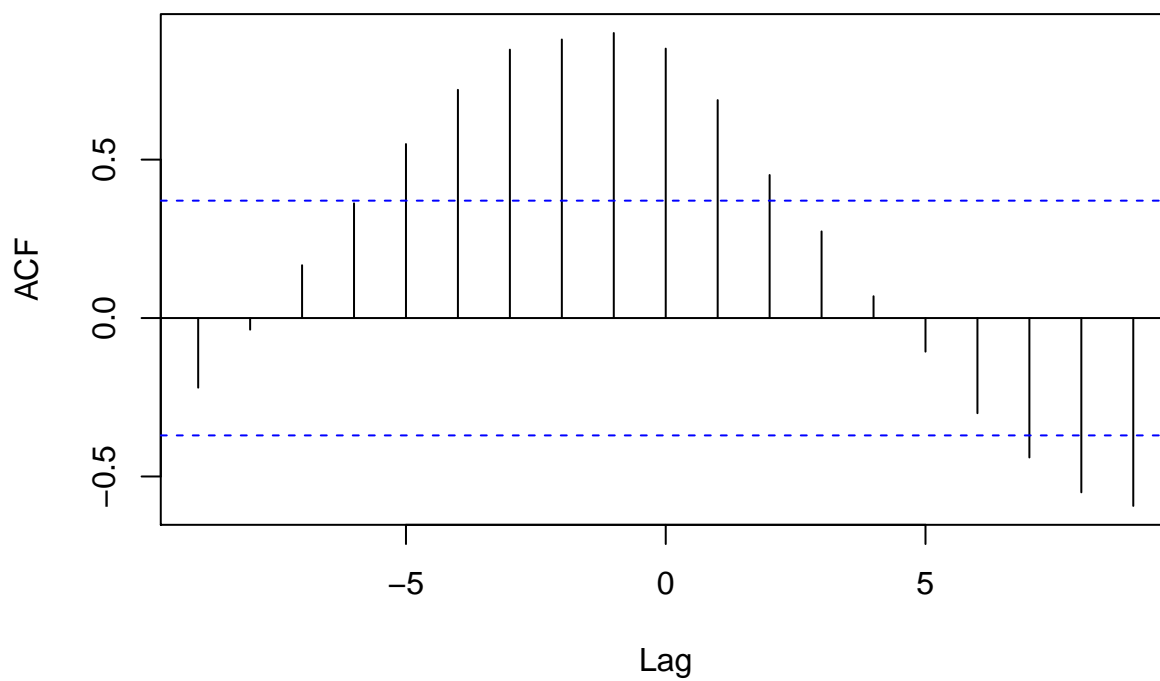
2 wk ahead – 39



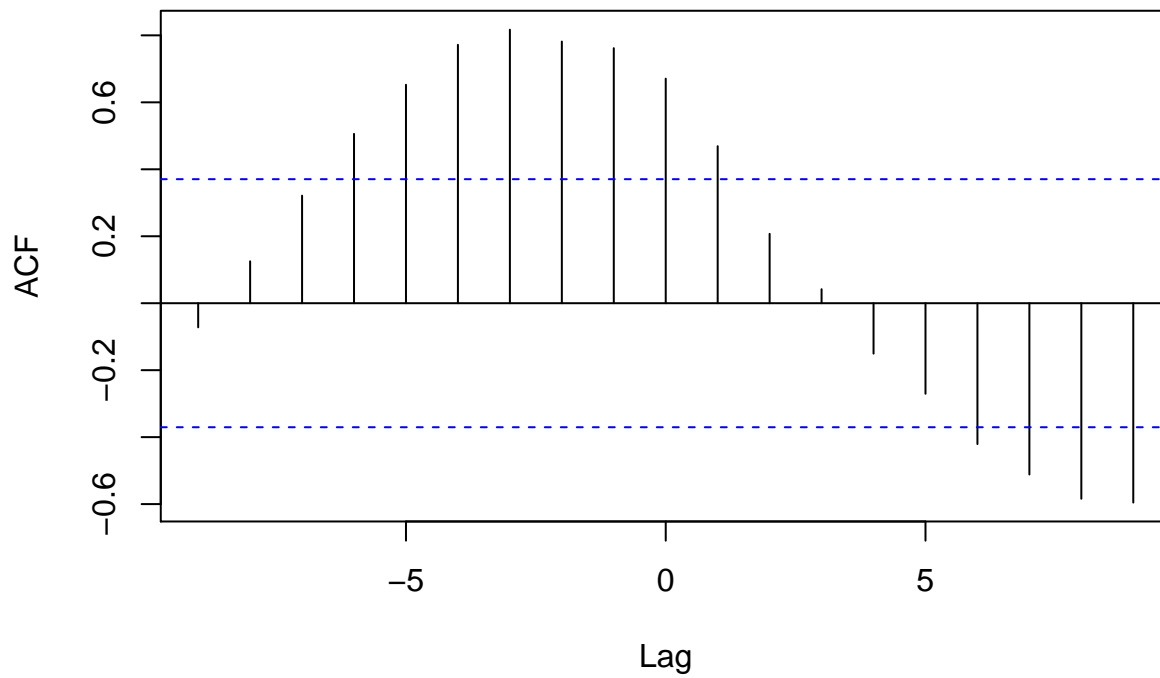
4 wk ahead – 39

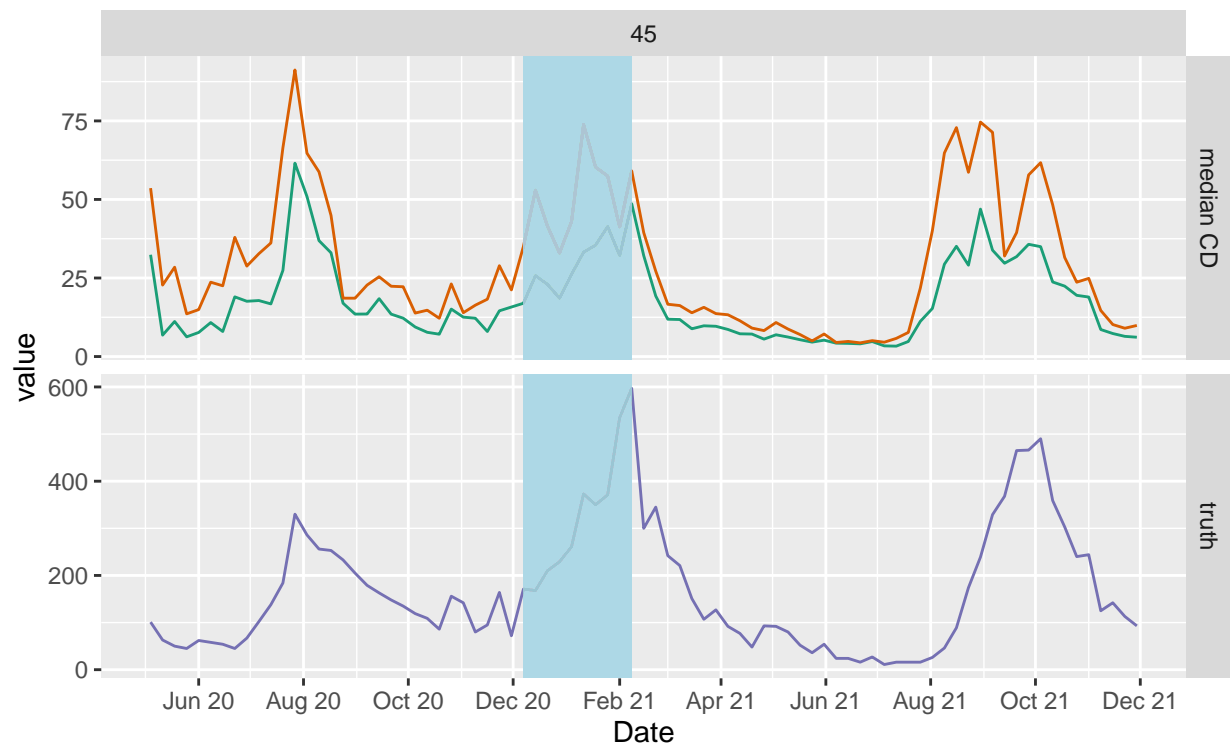


2 wk ahead – 42

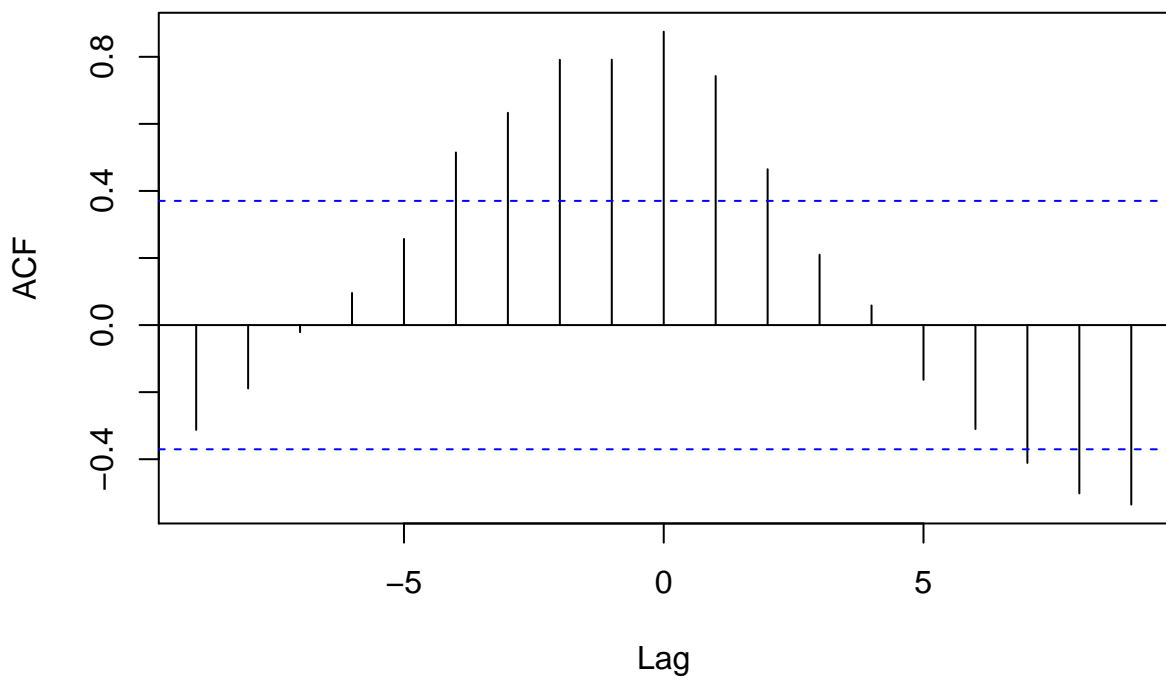


4 wk ahead – 42

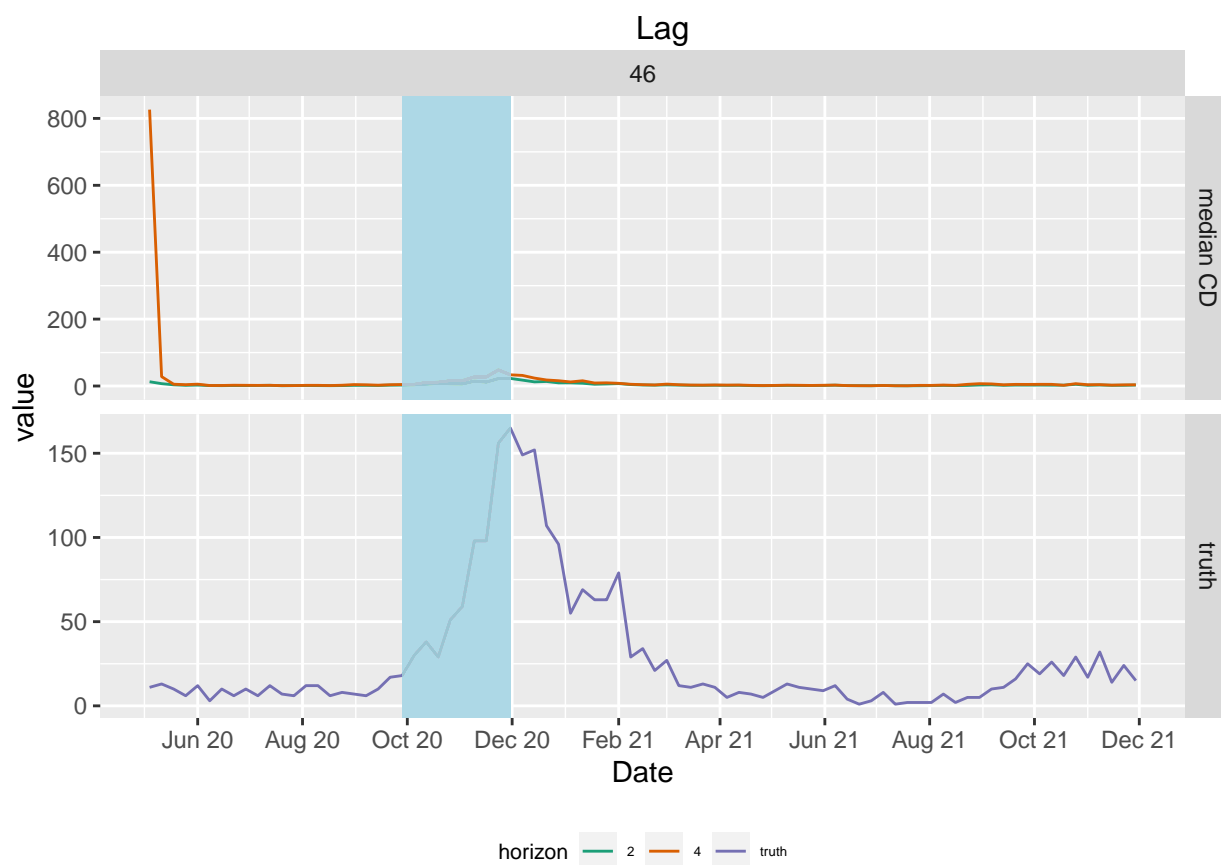
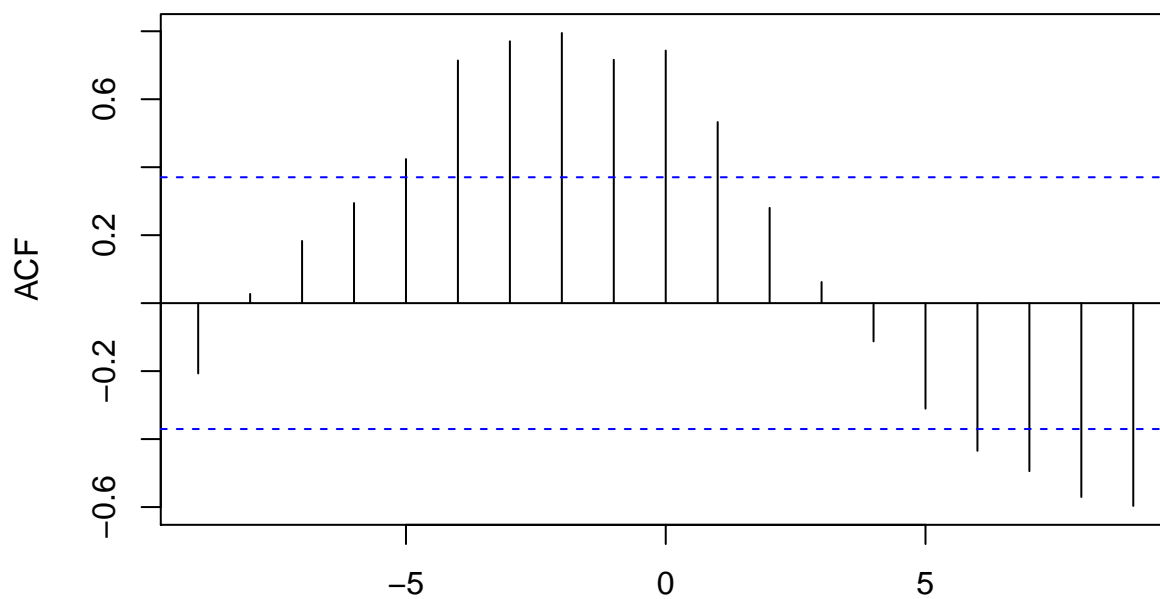




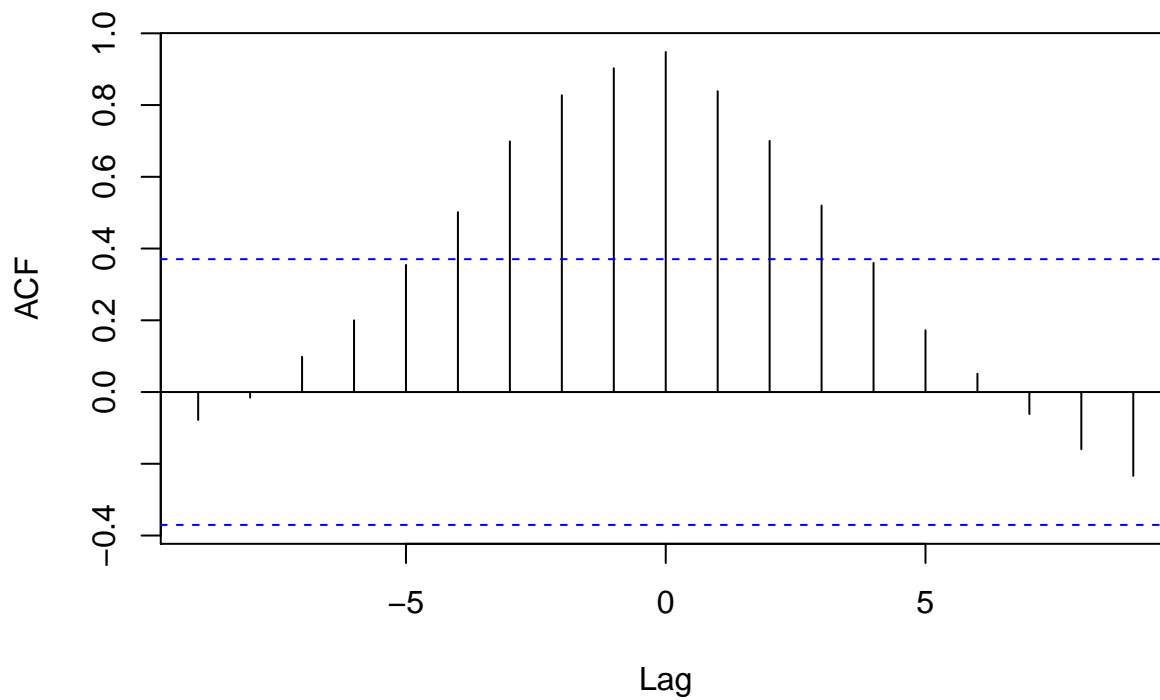
2 wk ahead – 45



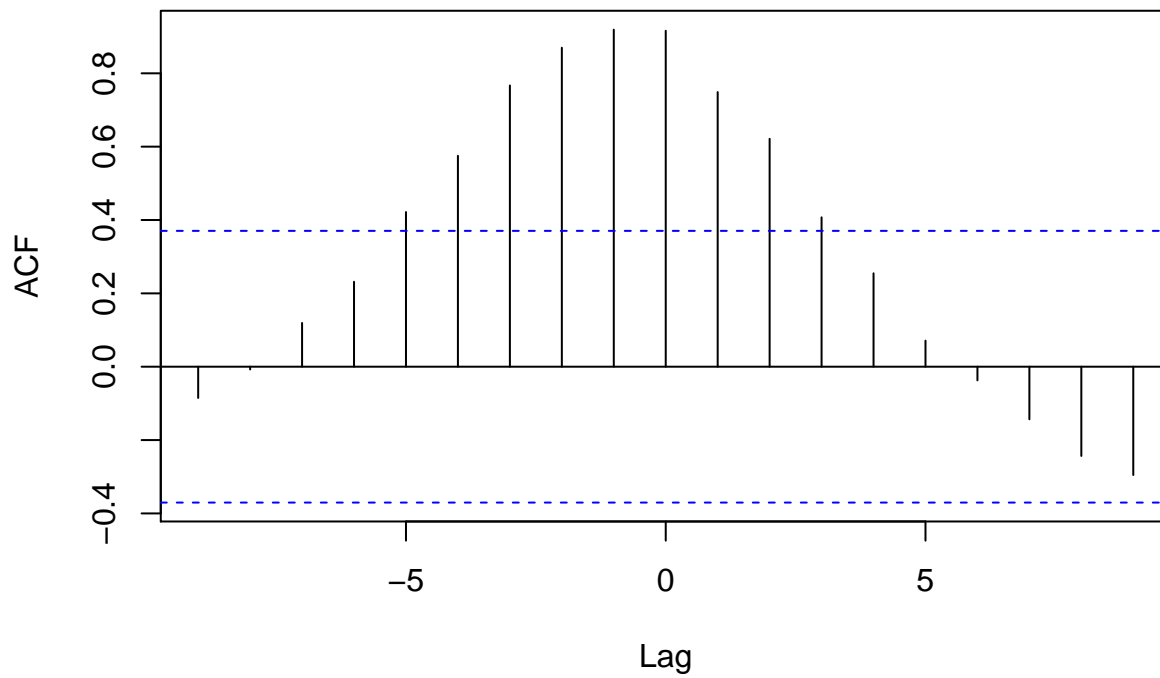
4 wk ahead – 45

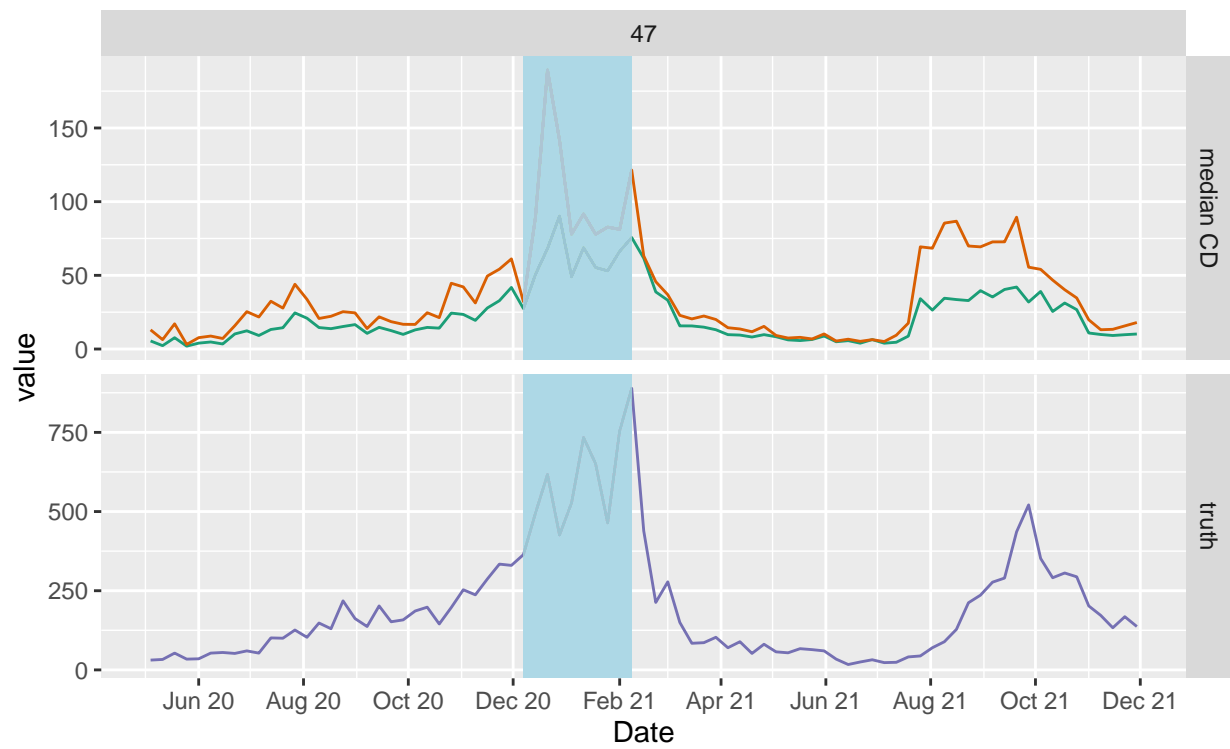


2 wk ahead – 46

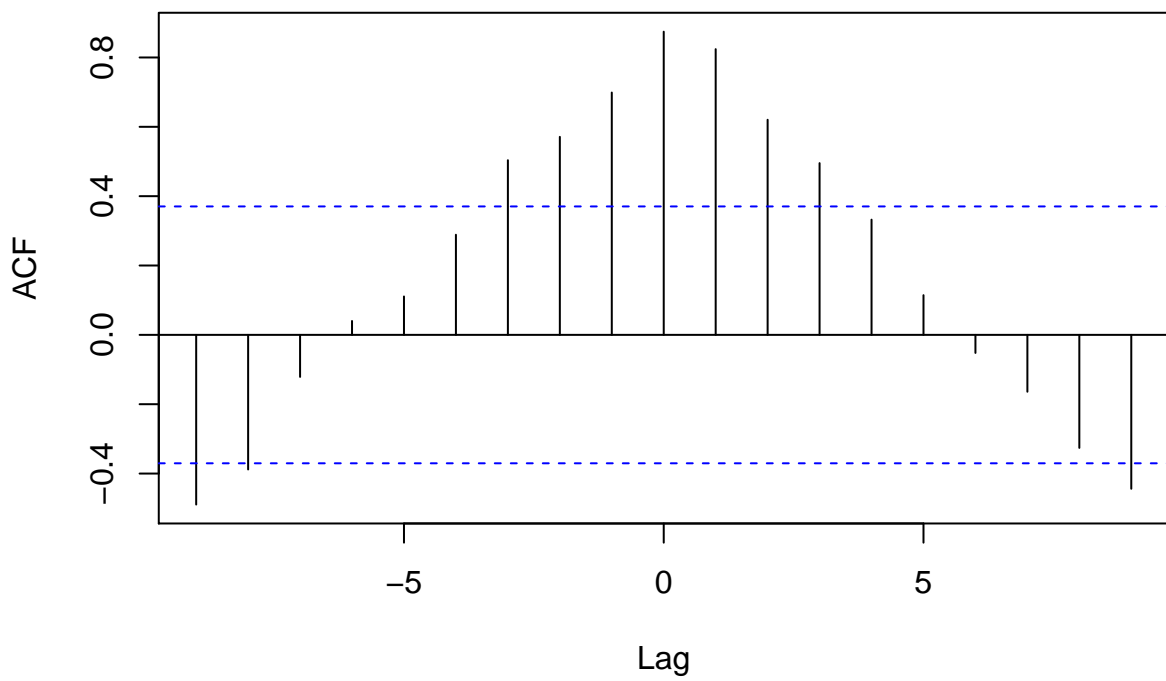


4 wk ahead – 46

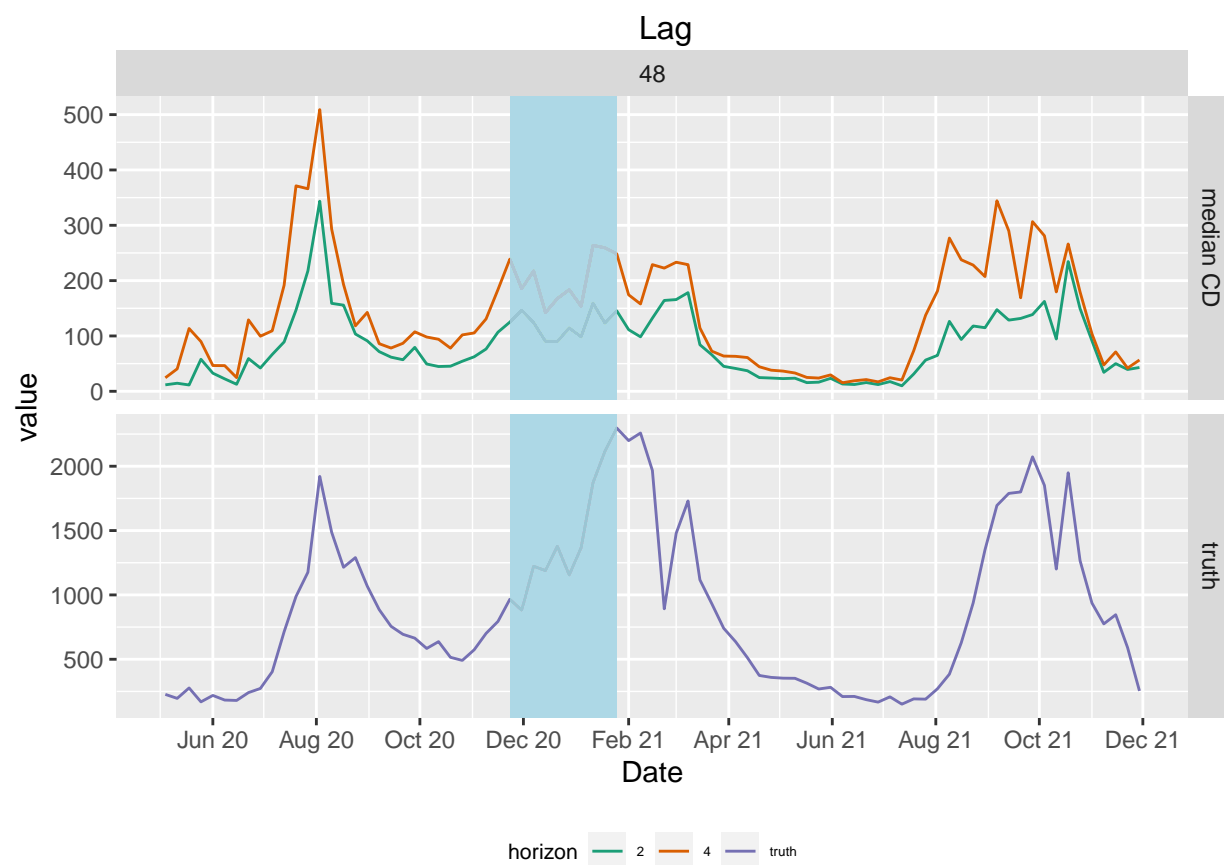
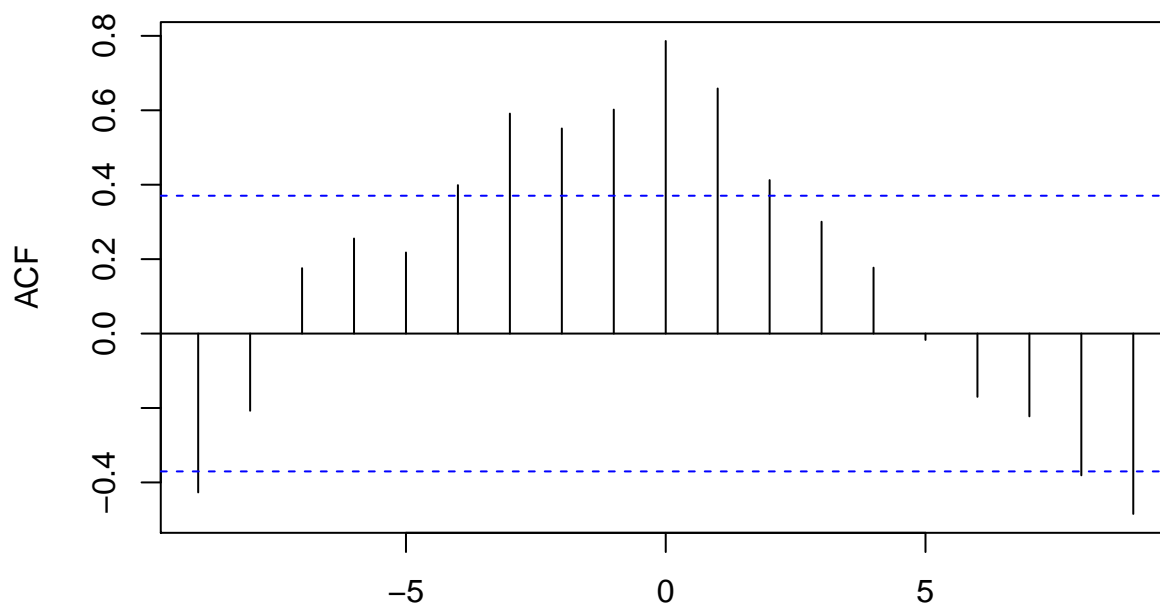




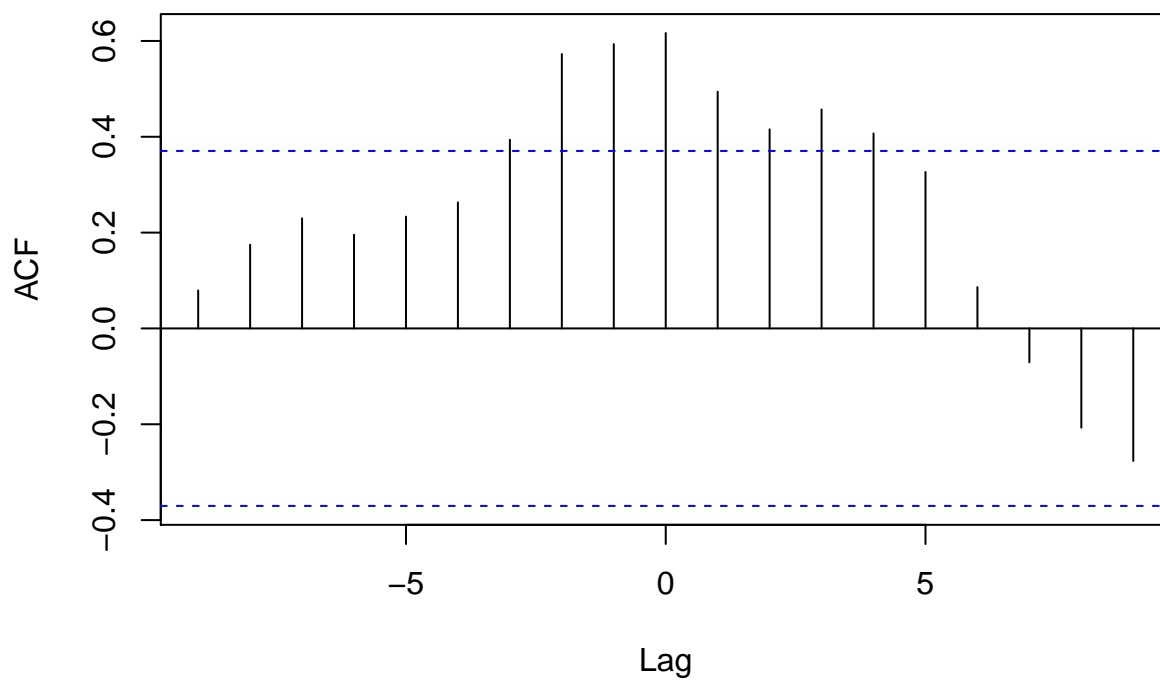
2 wk ahead – 47



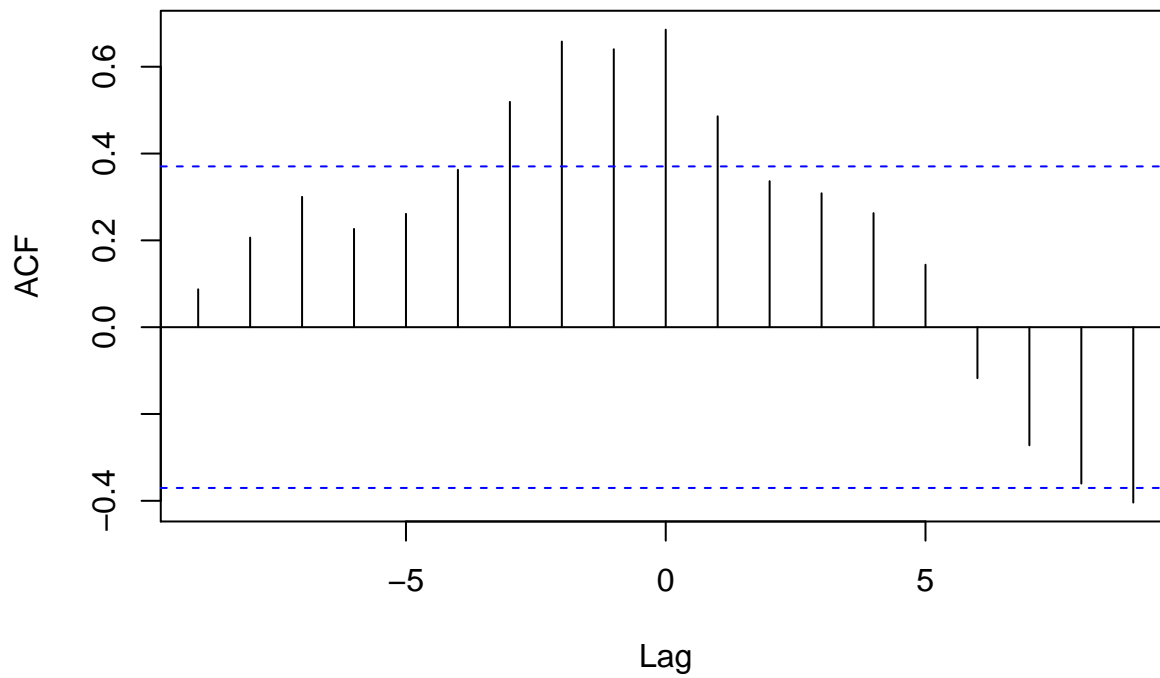
4 wk ahead – 47

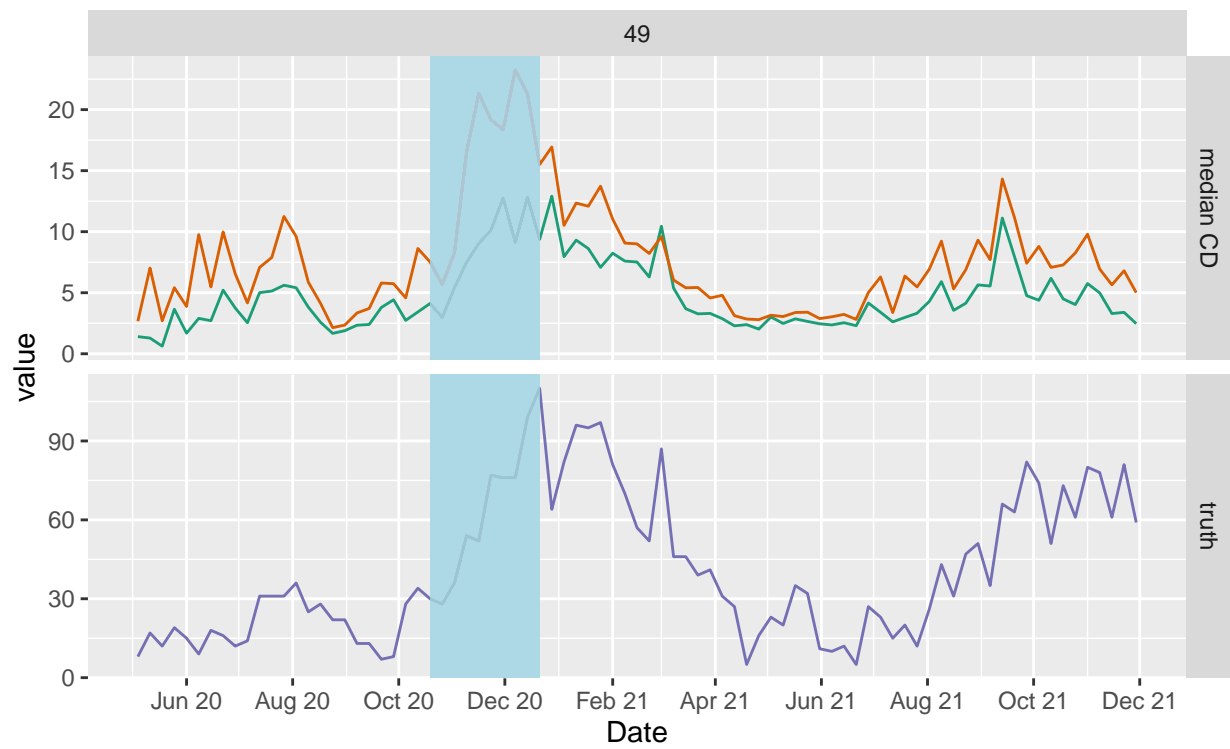


2 wk ahead – 48



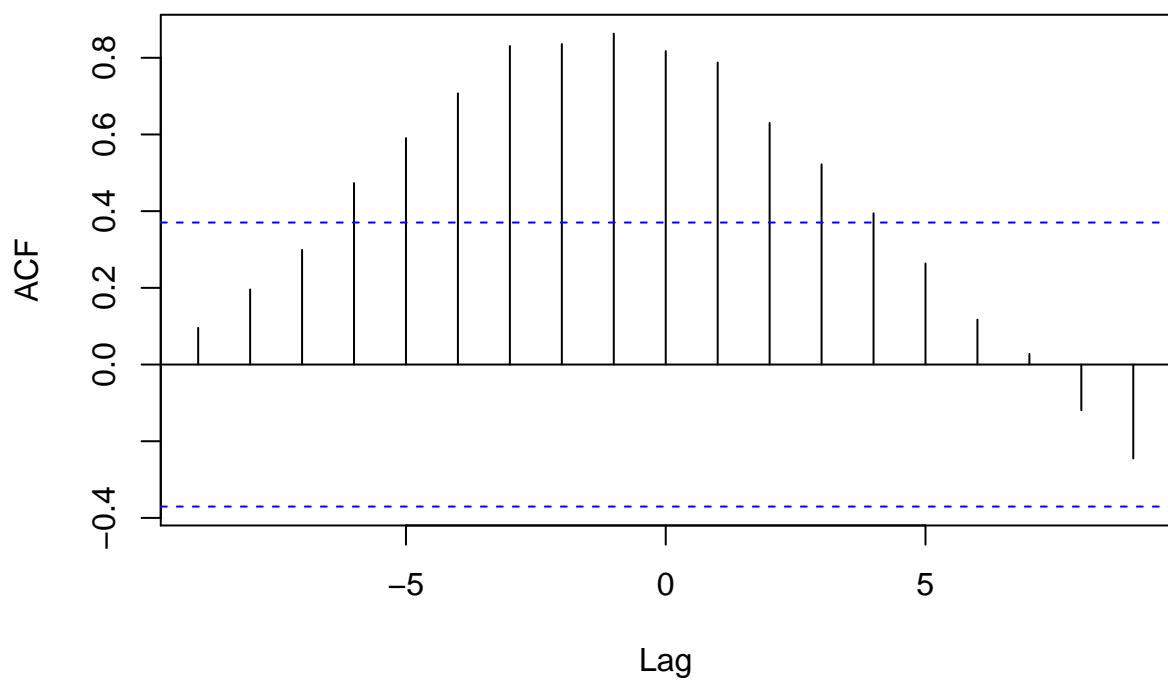
4 wk ahead – 48



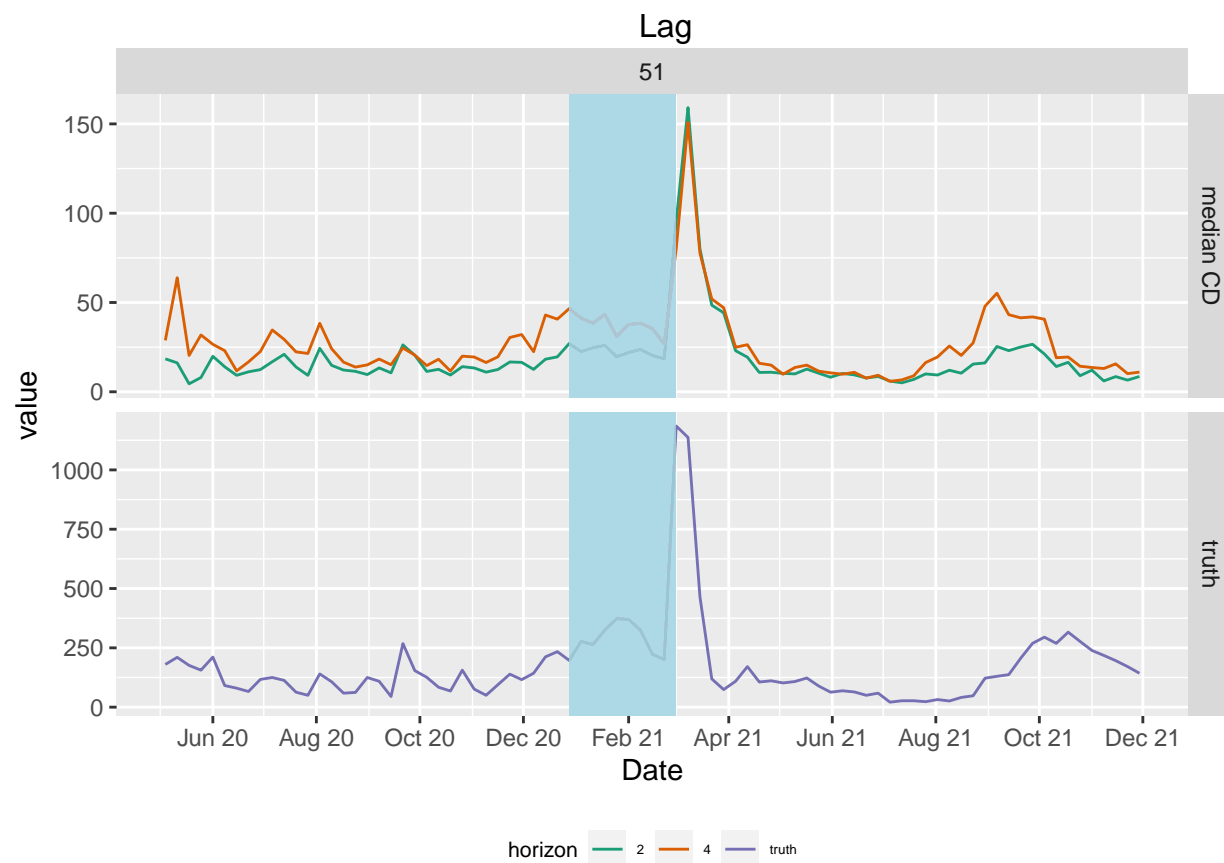
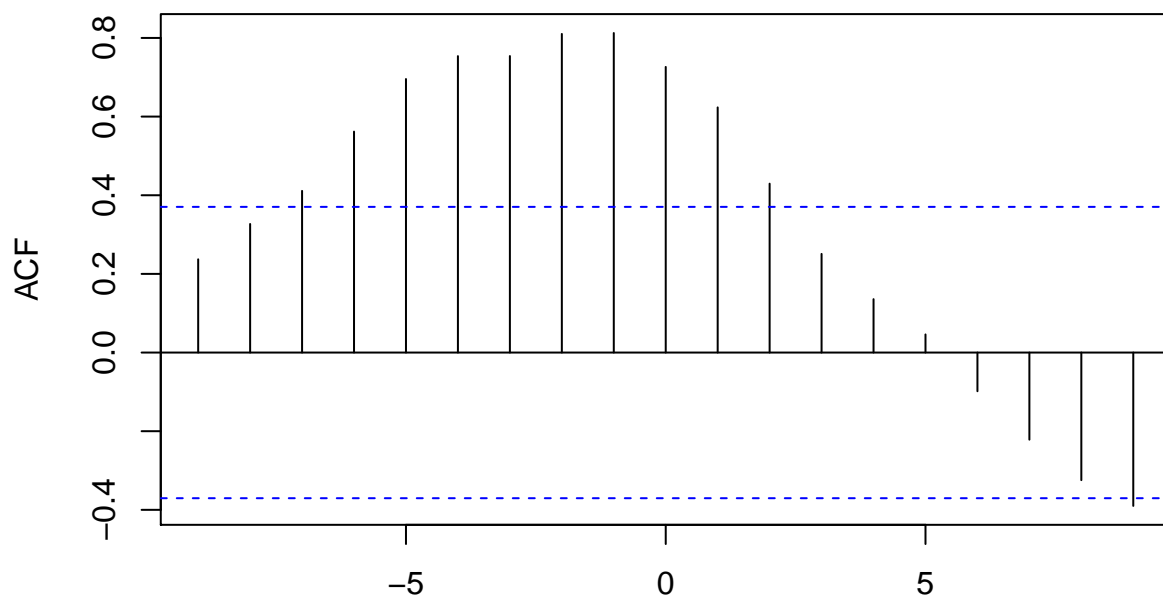


horizon 2 4 truth

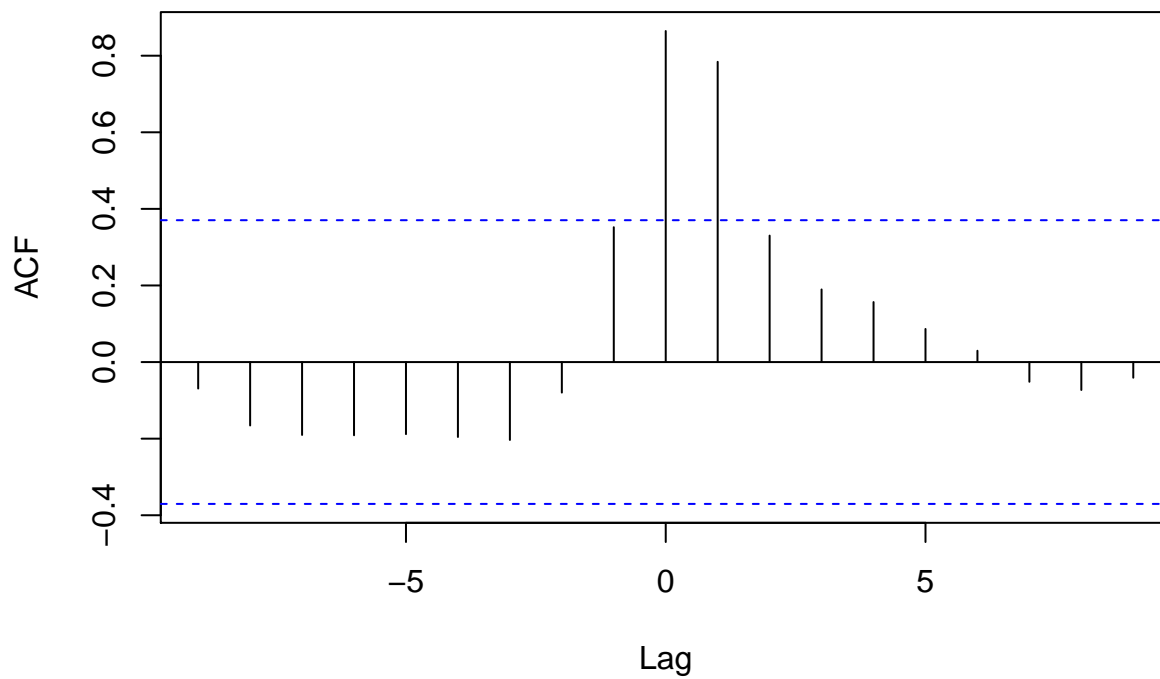
2 wk ahead – 49



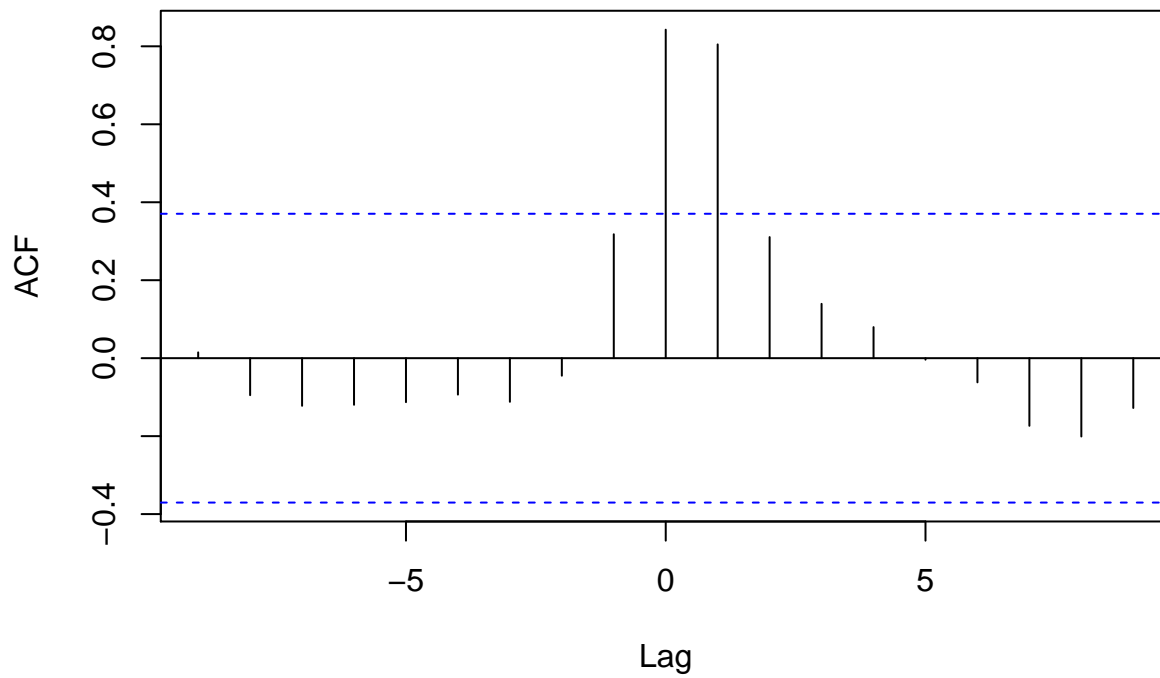
4 wk ahead – 49

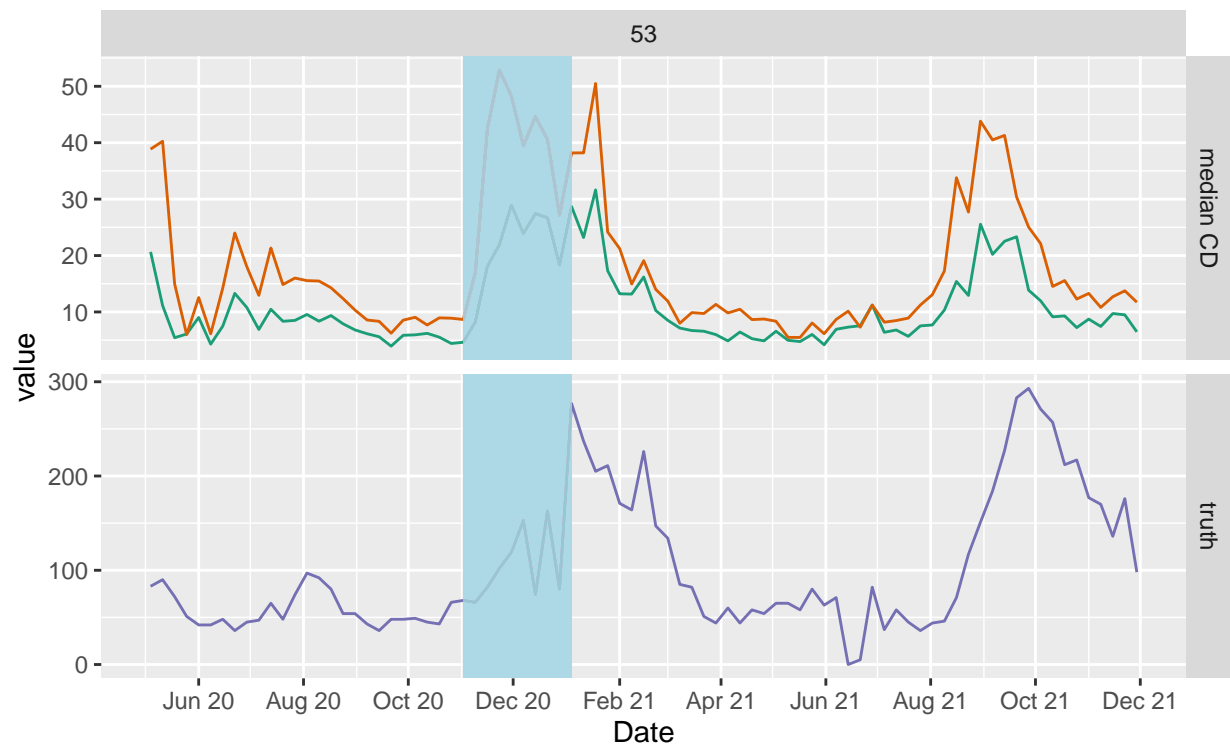


2 wk ahead – 51

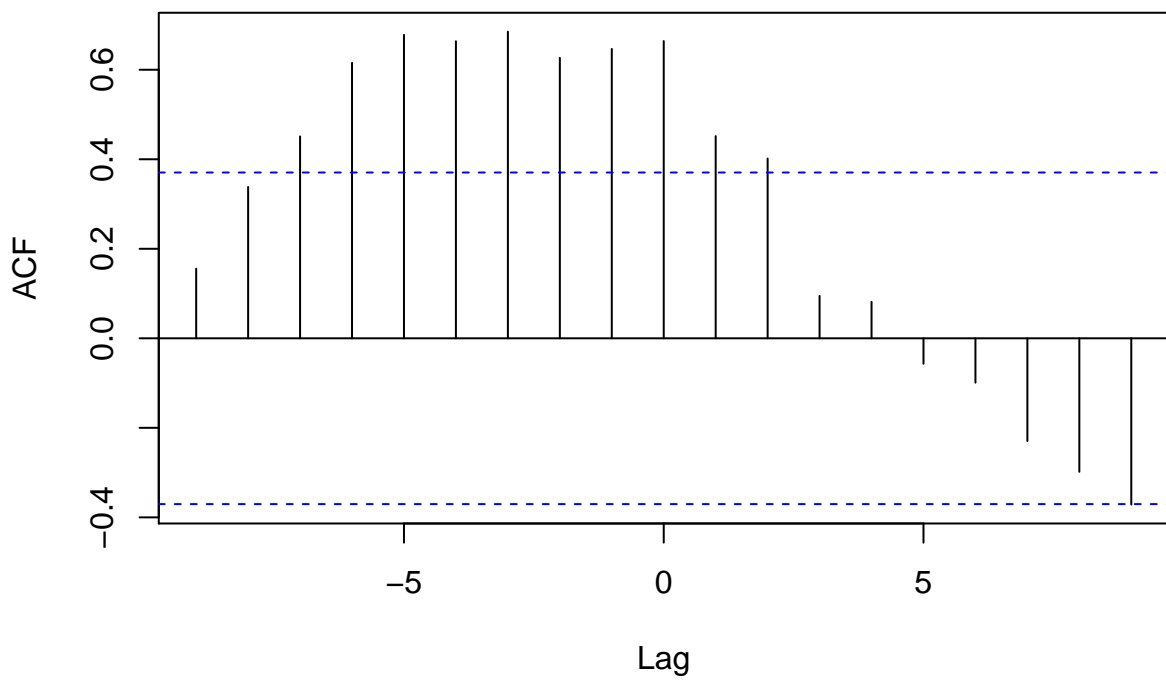


4 wk ahead – 51

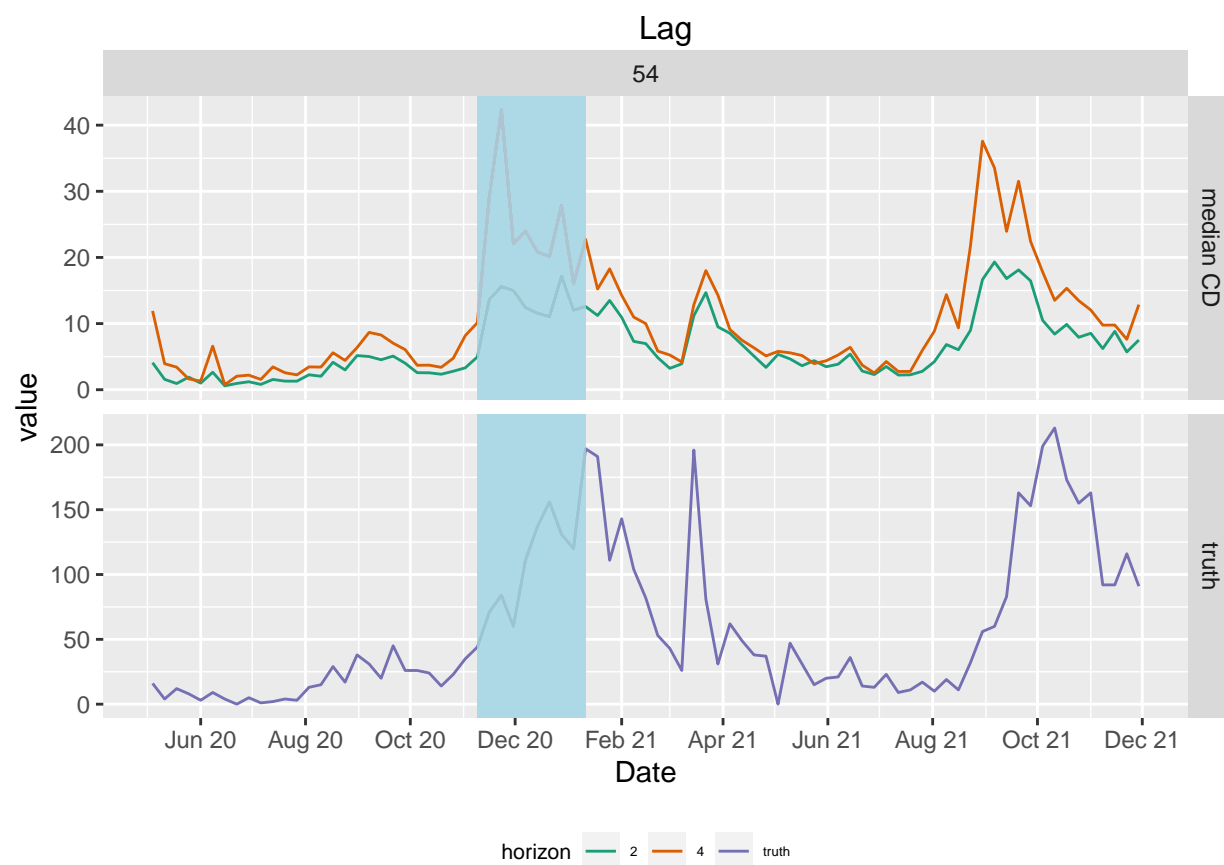
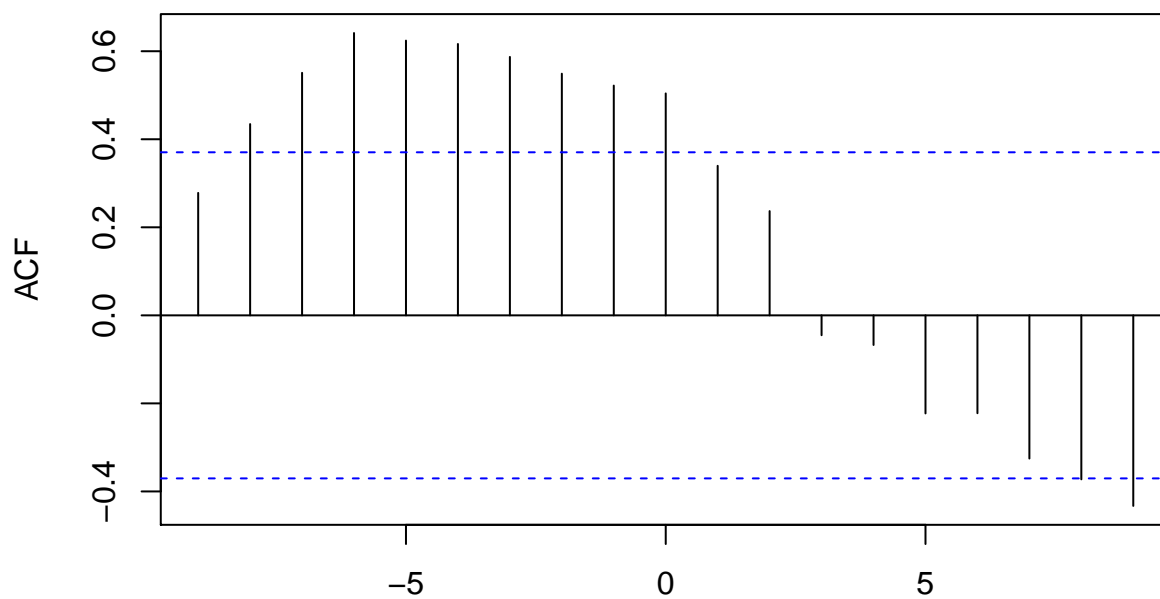




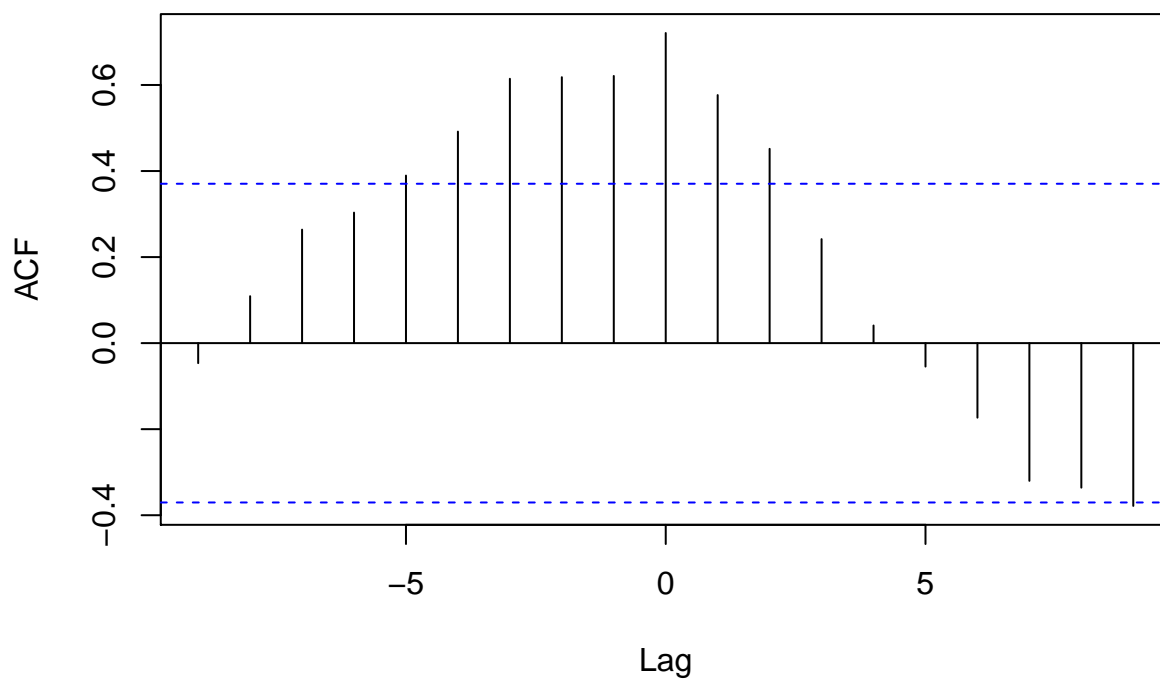
2 wk ahead – 53



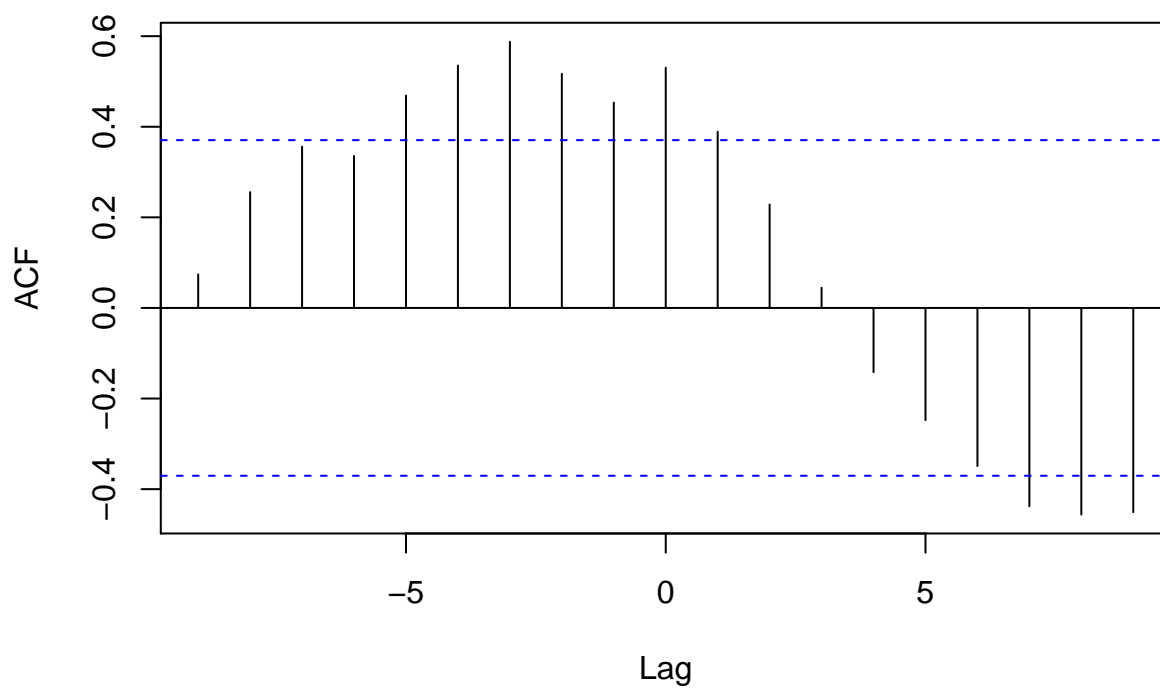
4 wk ahead – 53

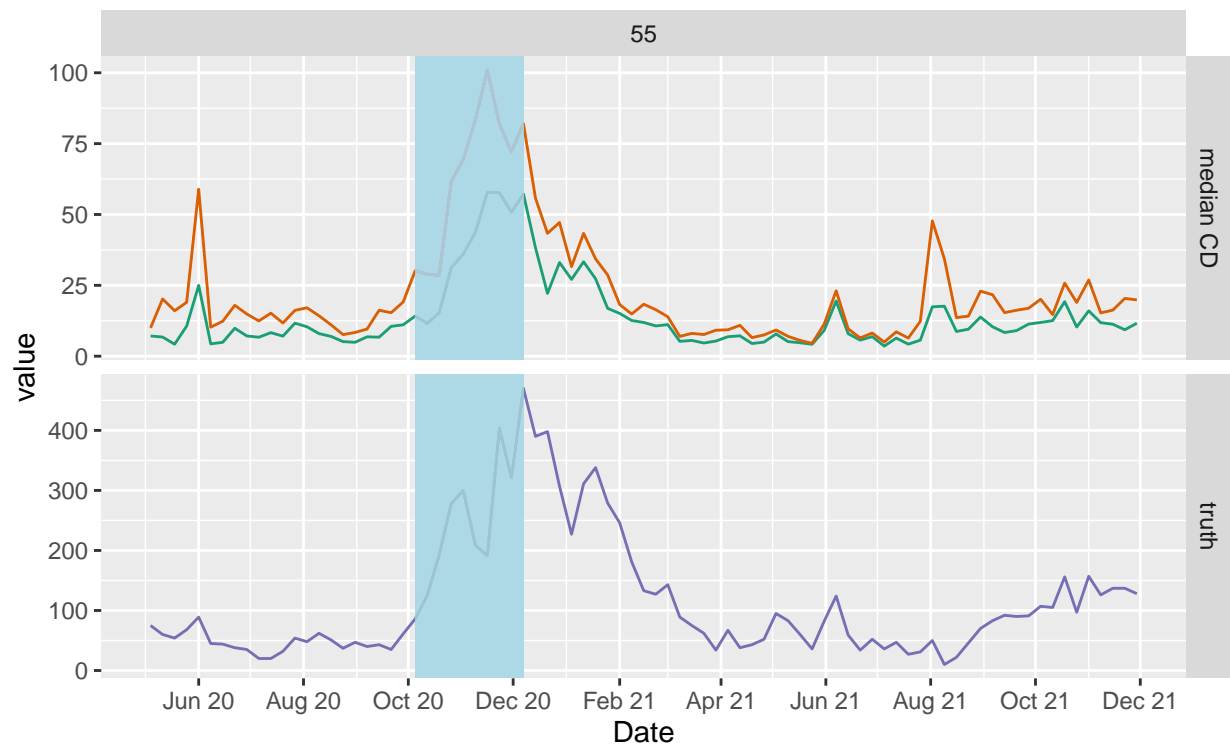


2 wk ahead – 54

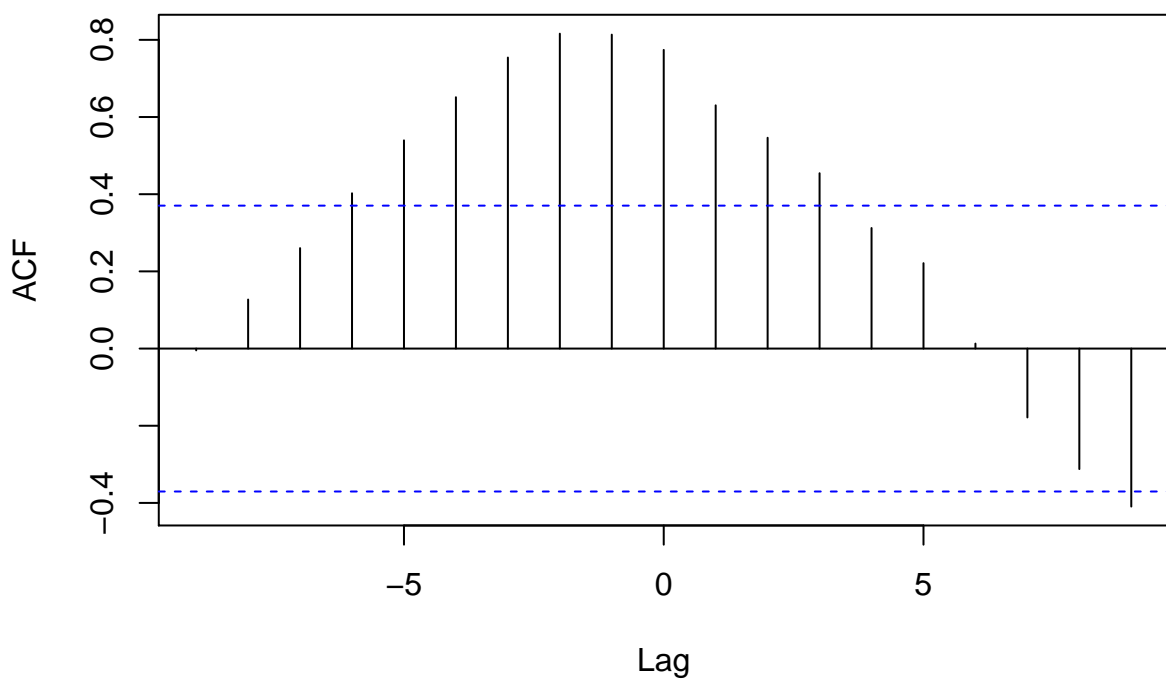


4 wk ahead – 54

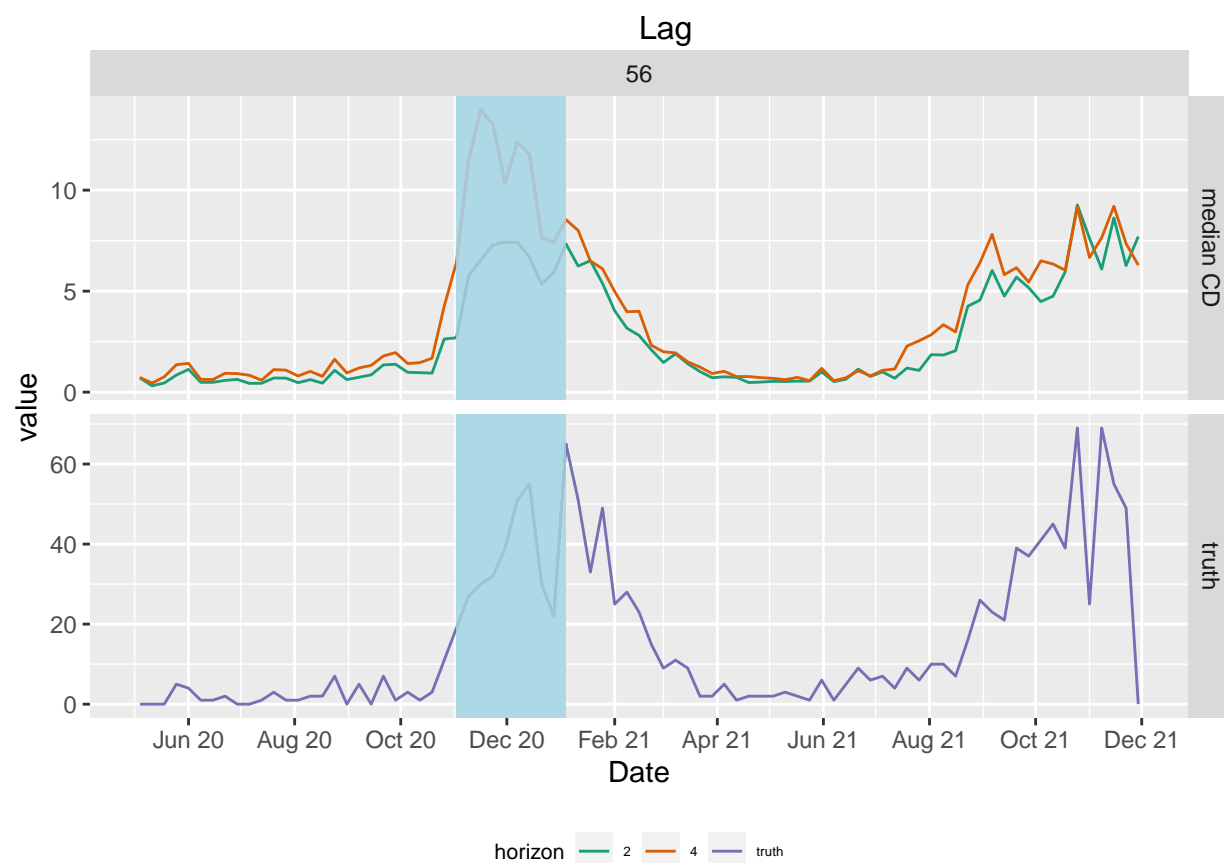
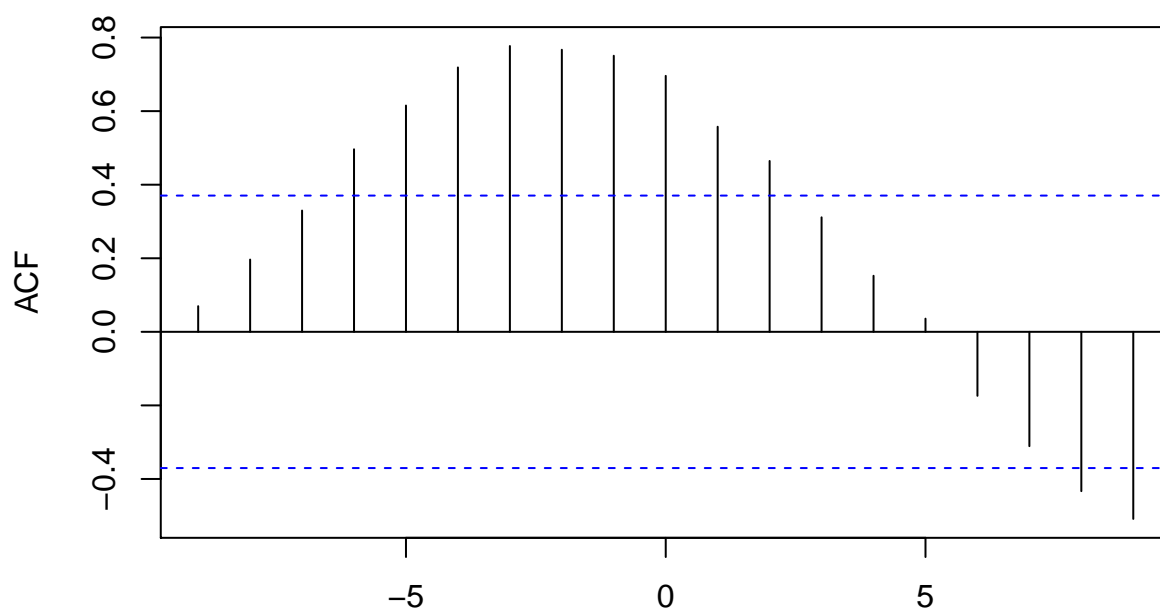




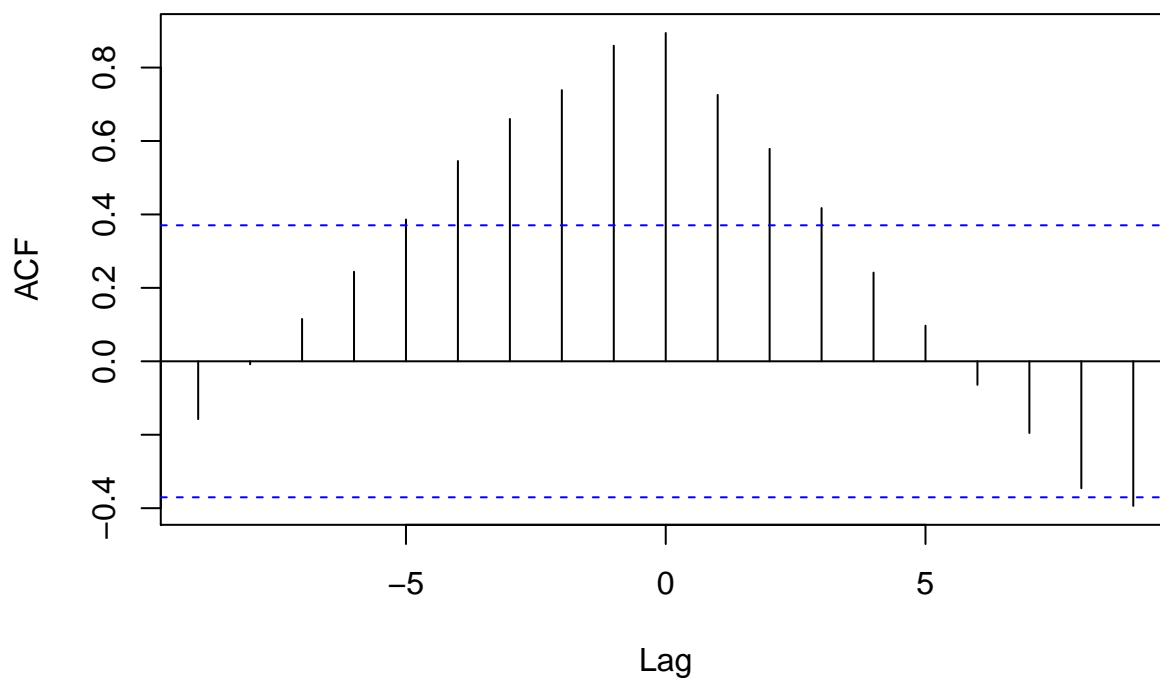
horizon 2 4 truth
2 wk ahead – 55



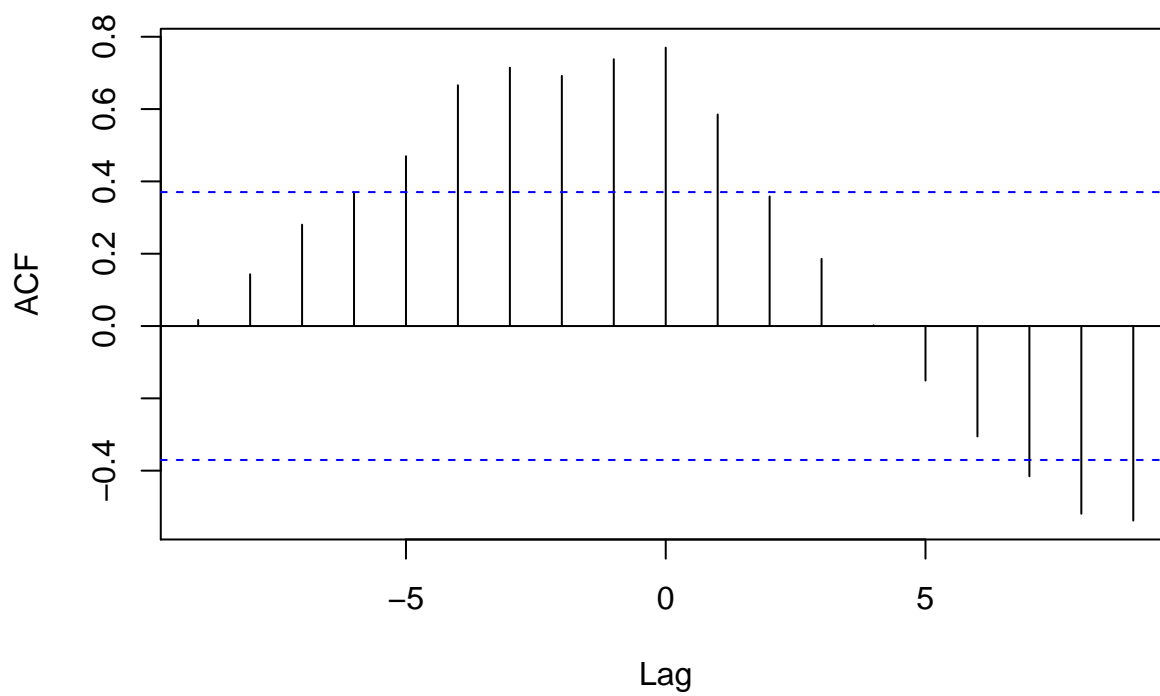
4 wk ahead – 55



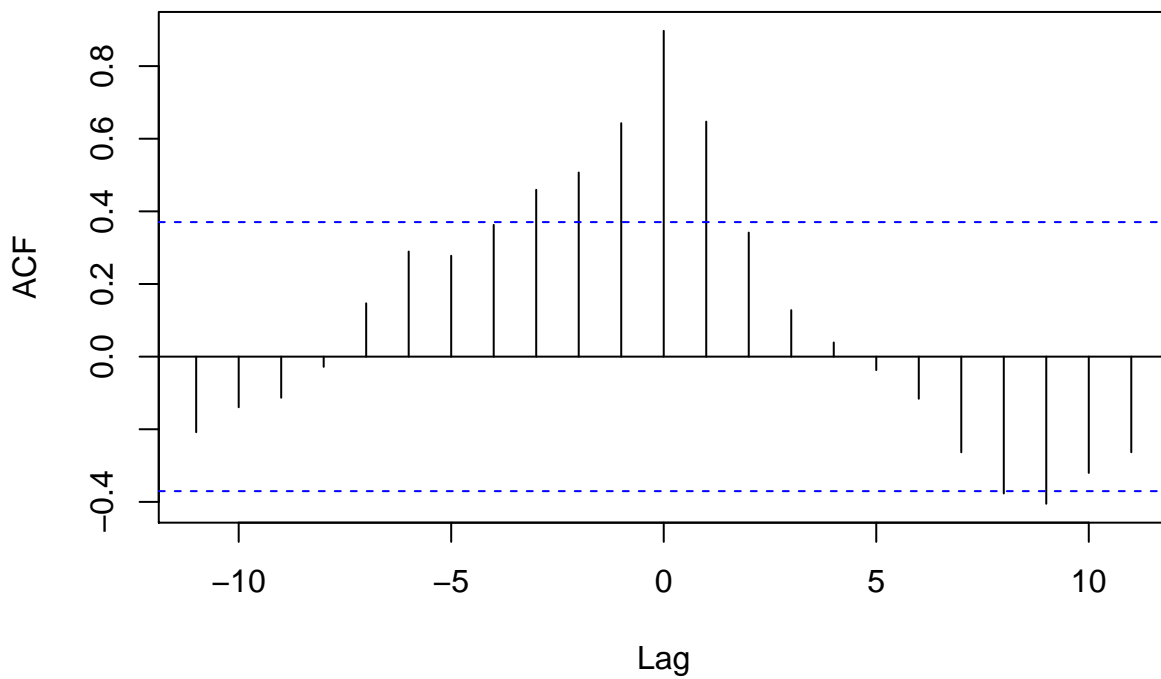
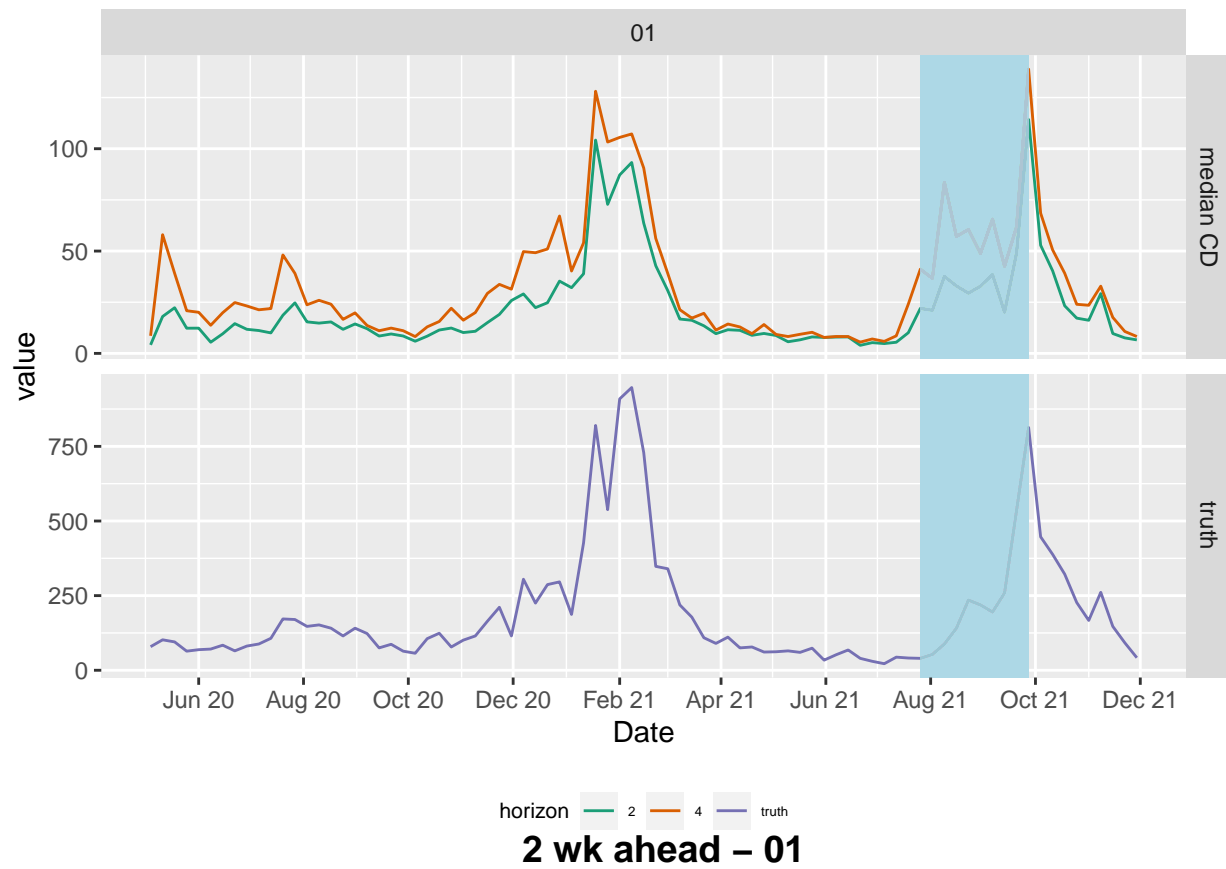
2 wk ahead – 56



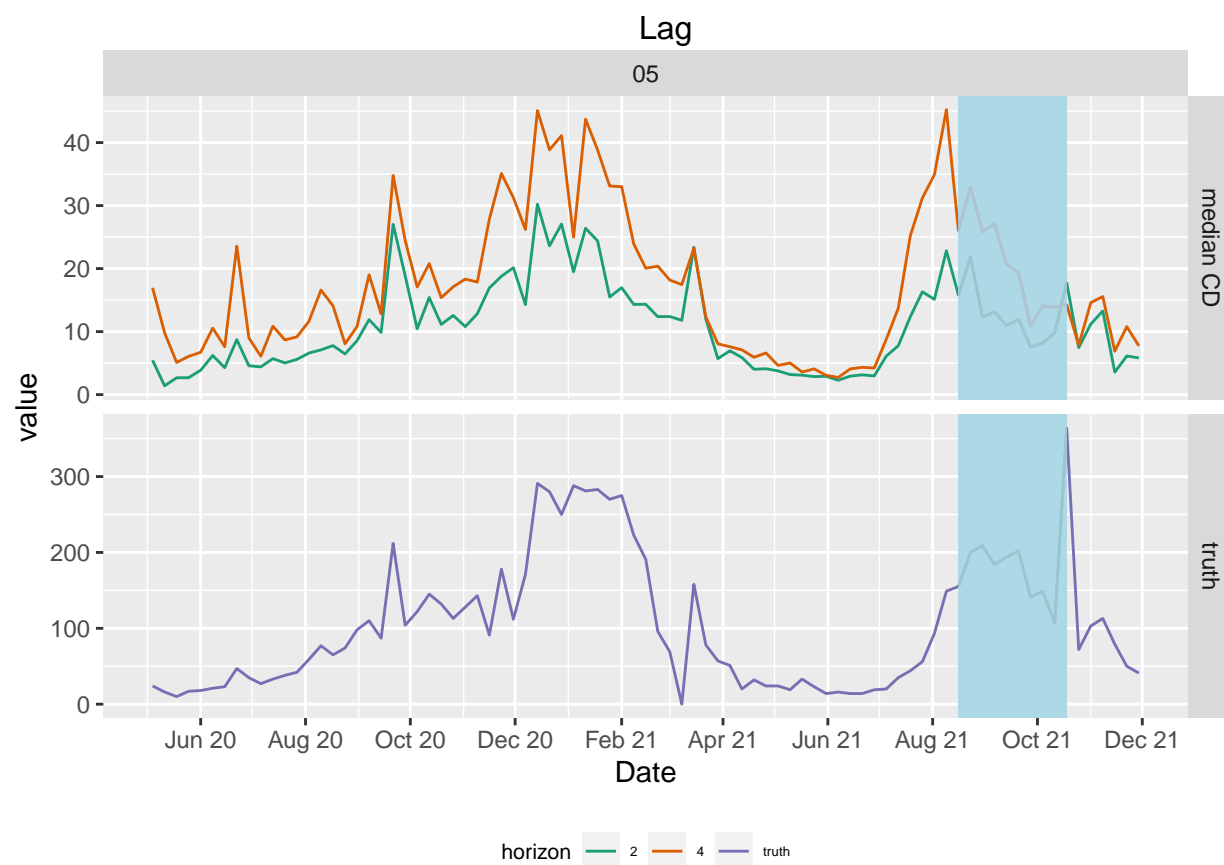
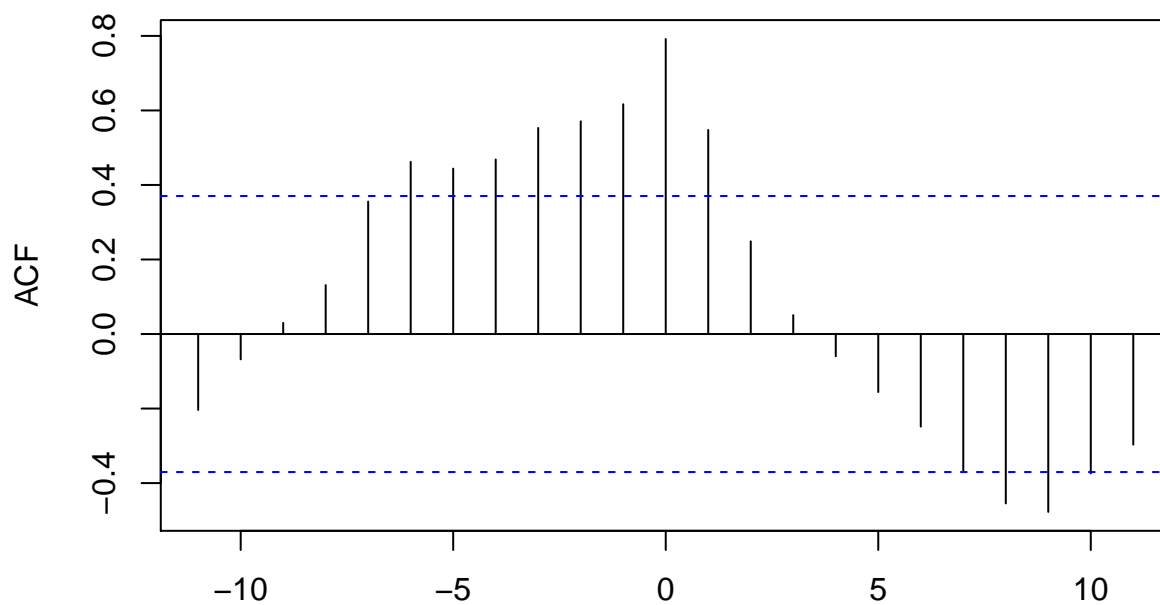
4 wk ahead – 56



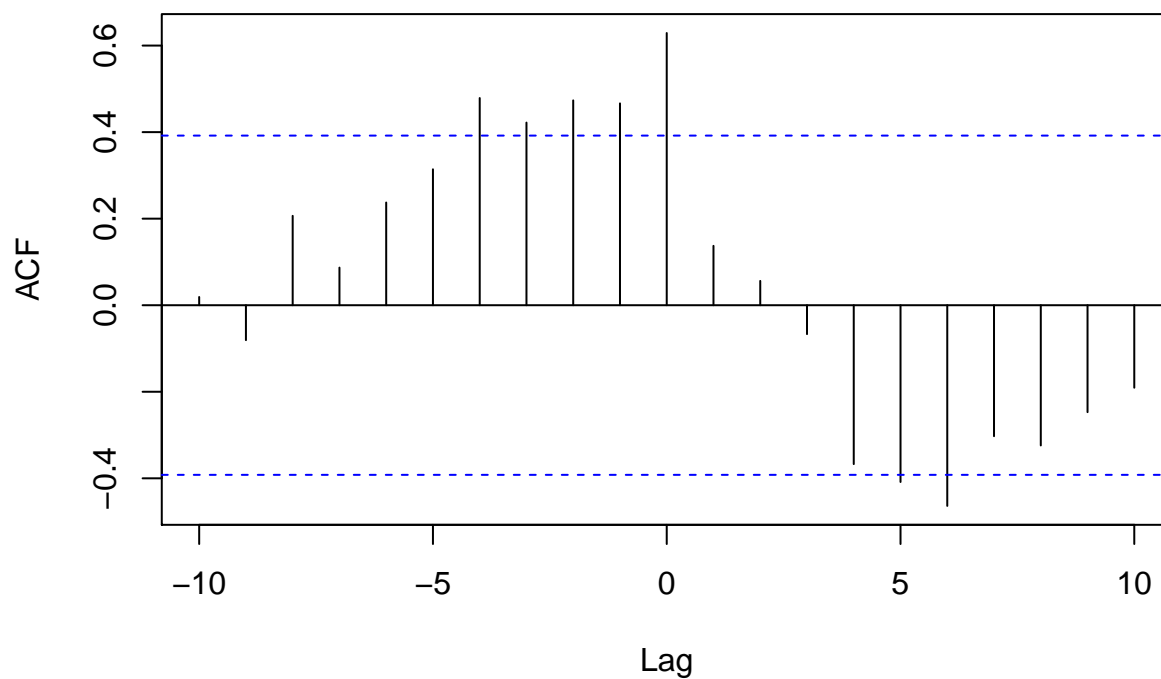
Summer/Fall 2021 Up



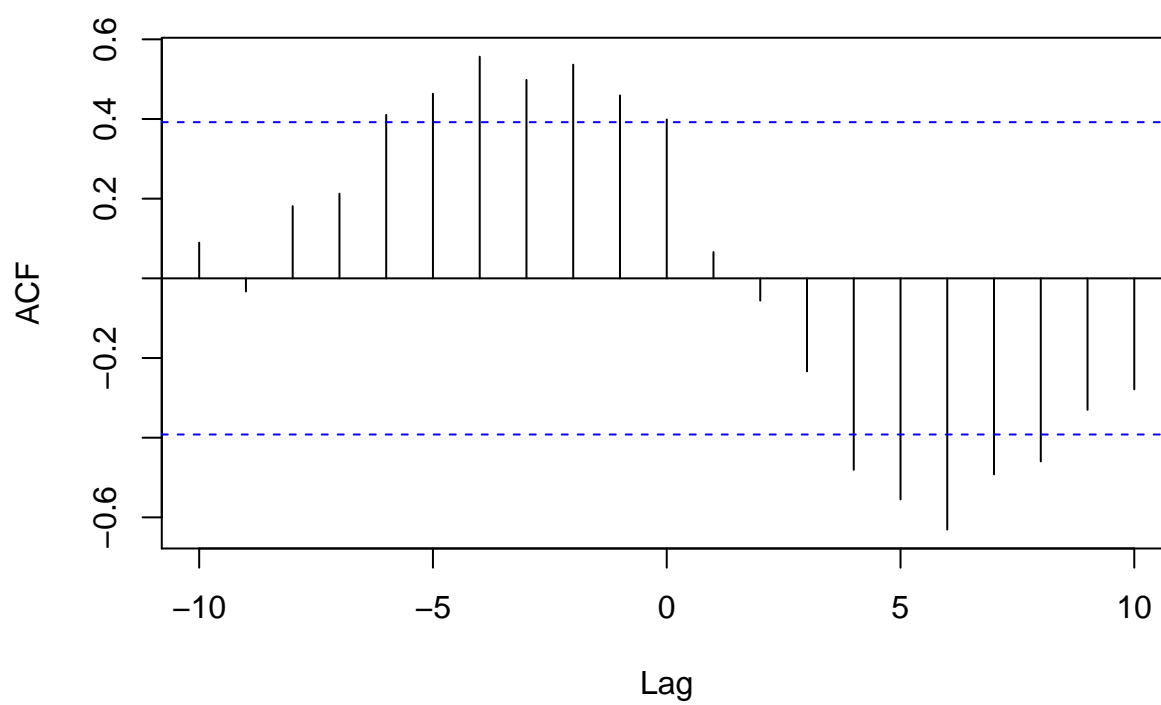
4 wk ahead – 01

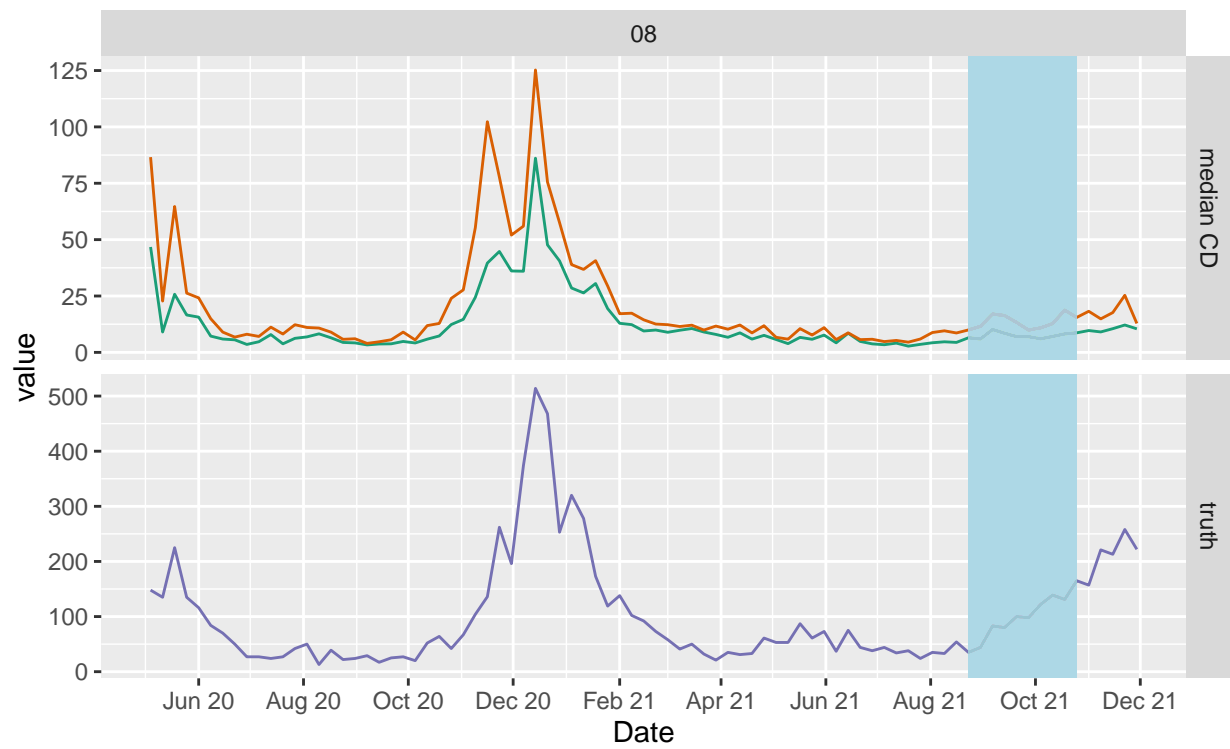


2 wk ahead – 05



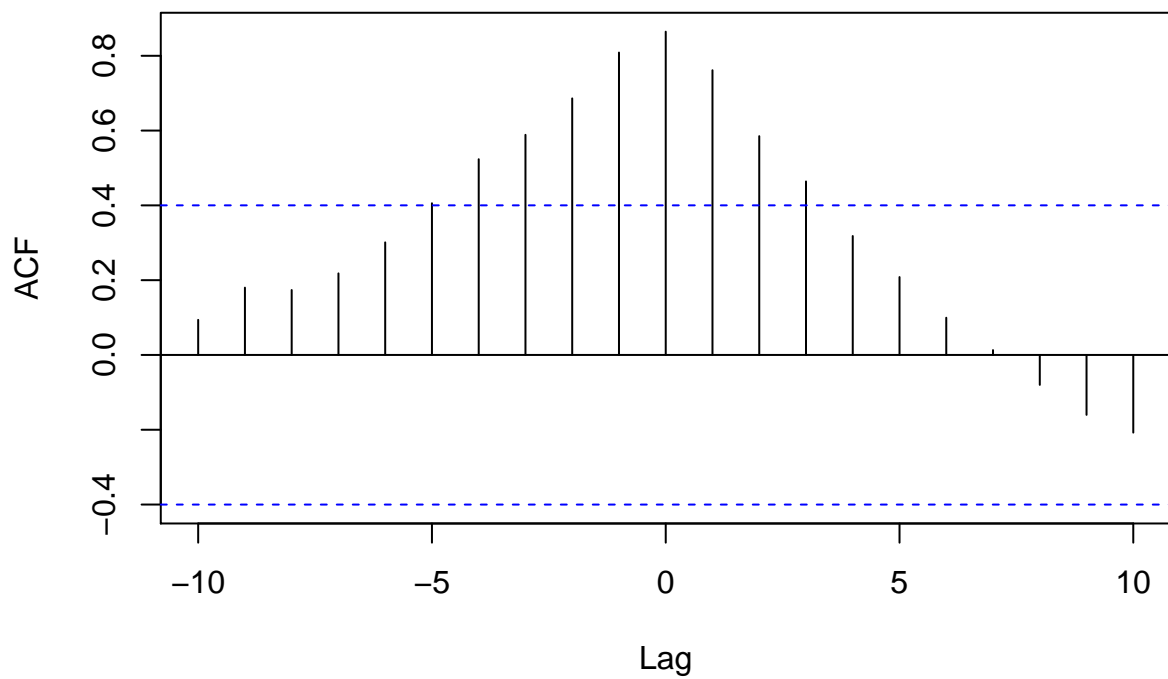
4 wk ahead – 05



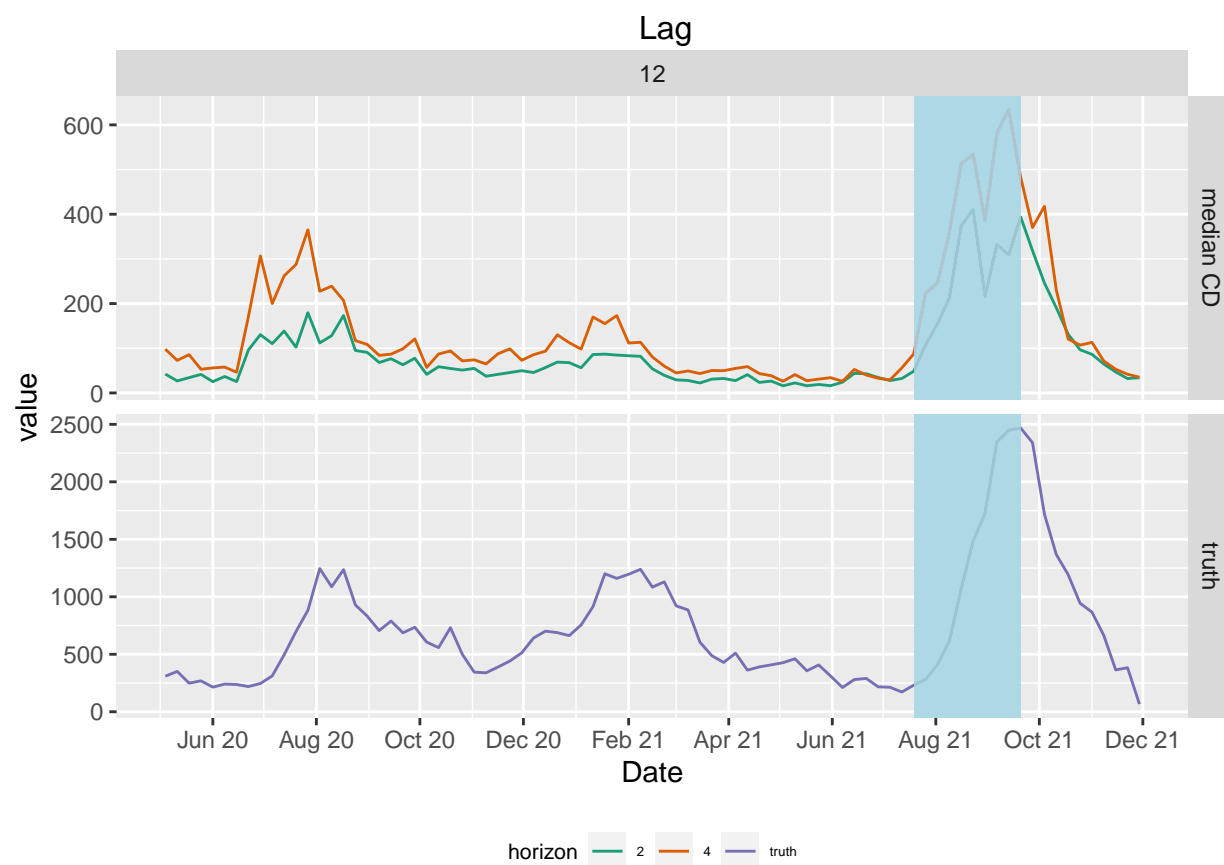
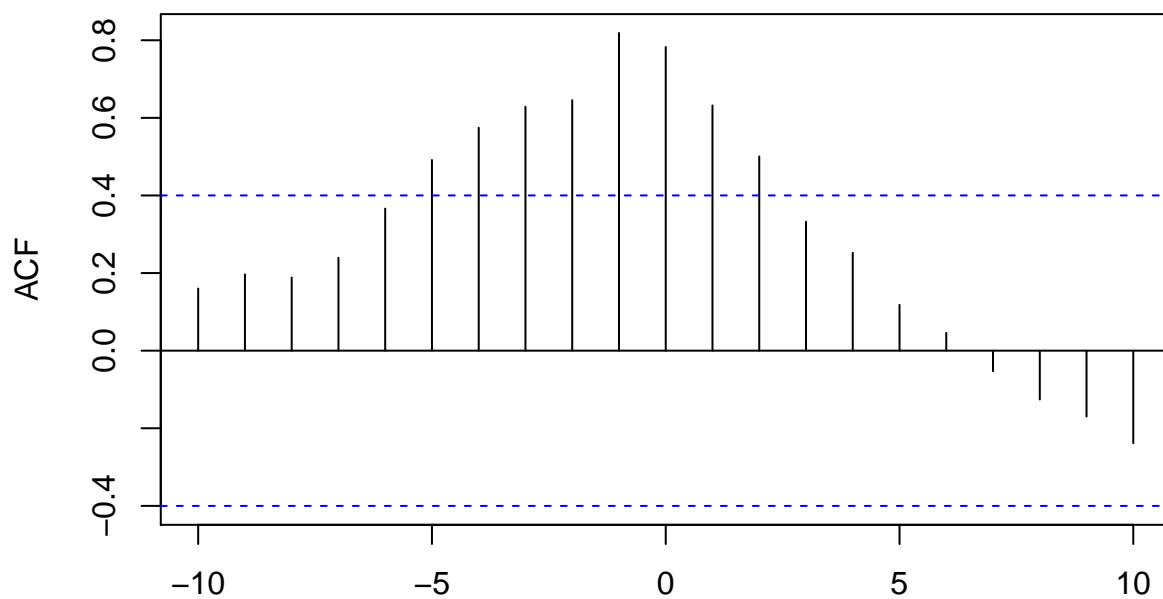


horizon 2 4 truth

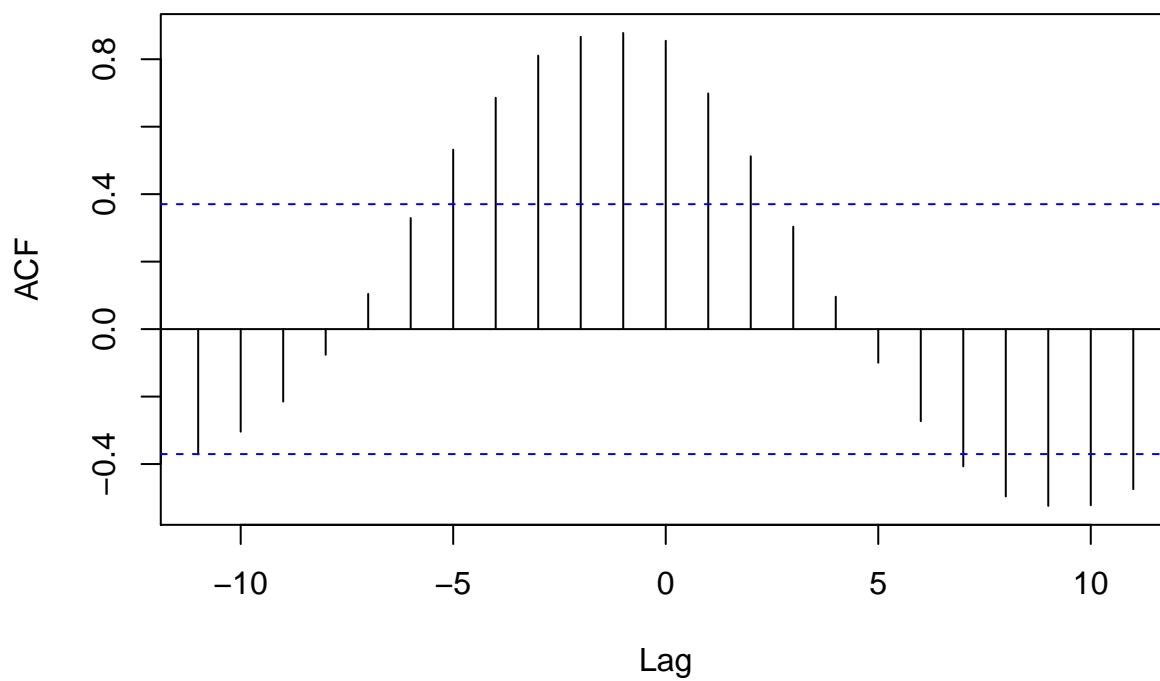
2 wk ahead – 08



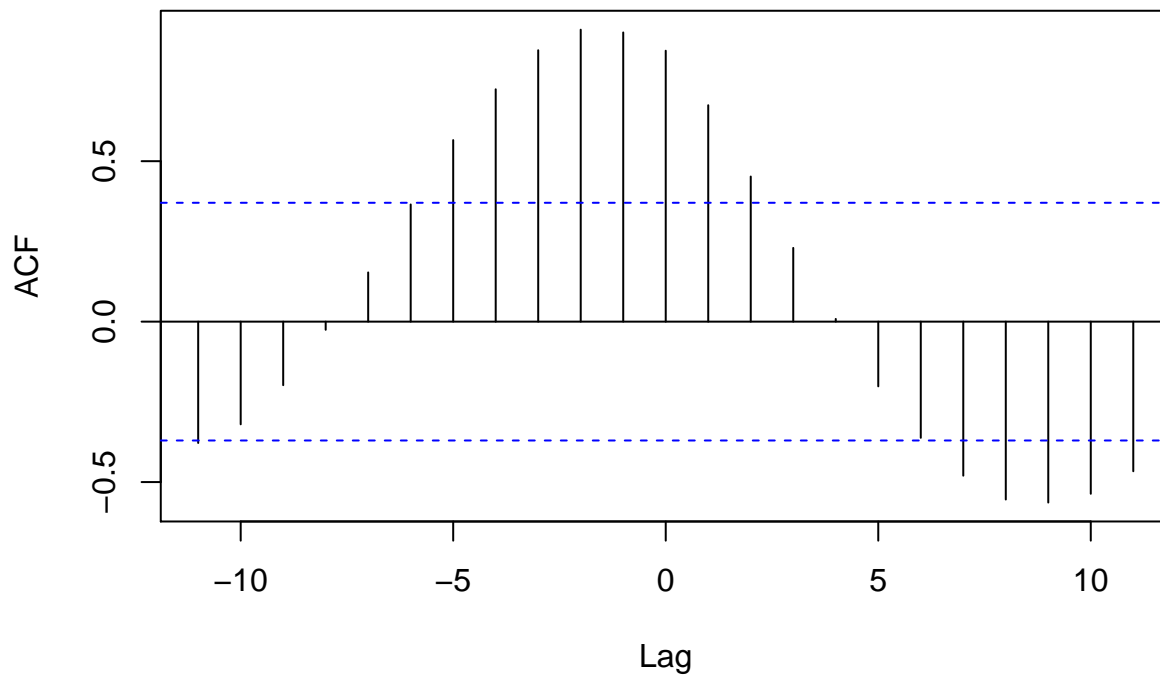
4 wk ahead – 08

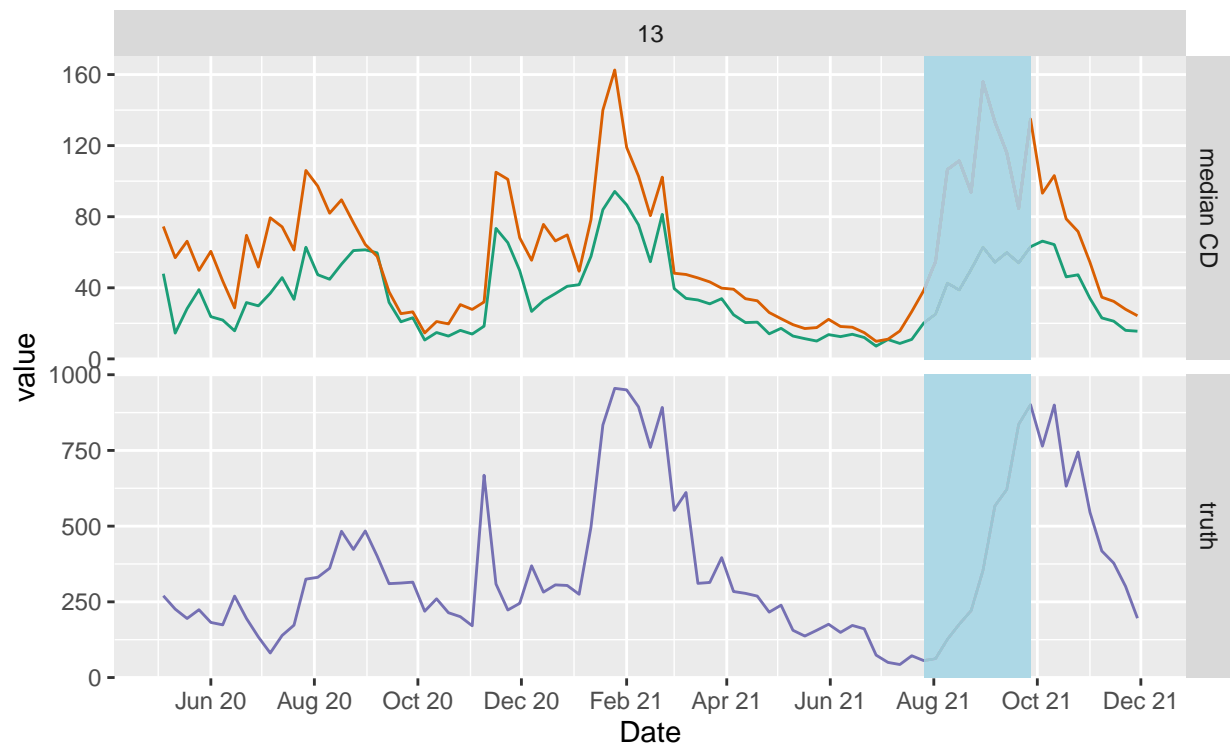


2 wk ahead – 12

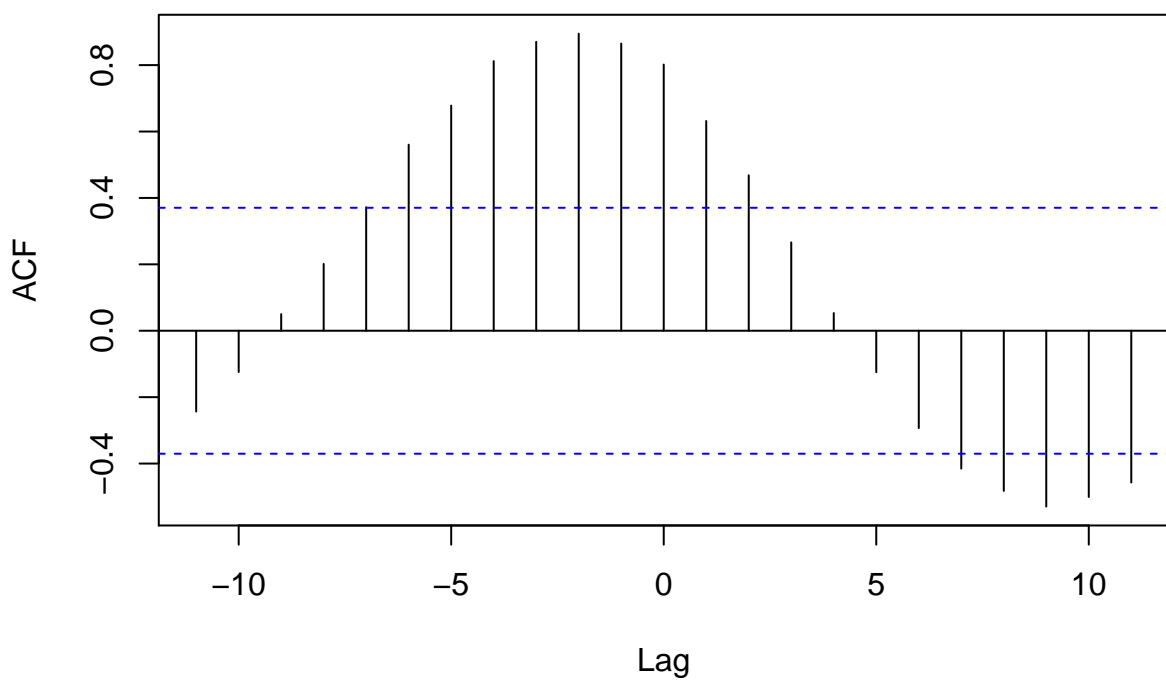


4 wk ahead – 12

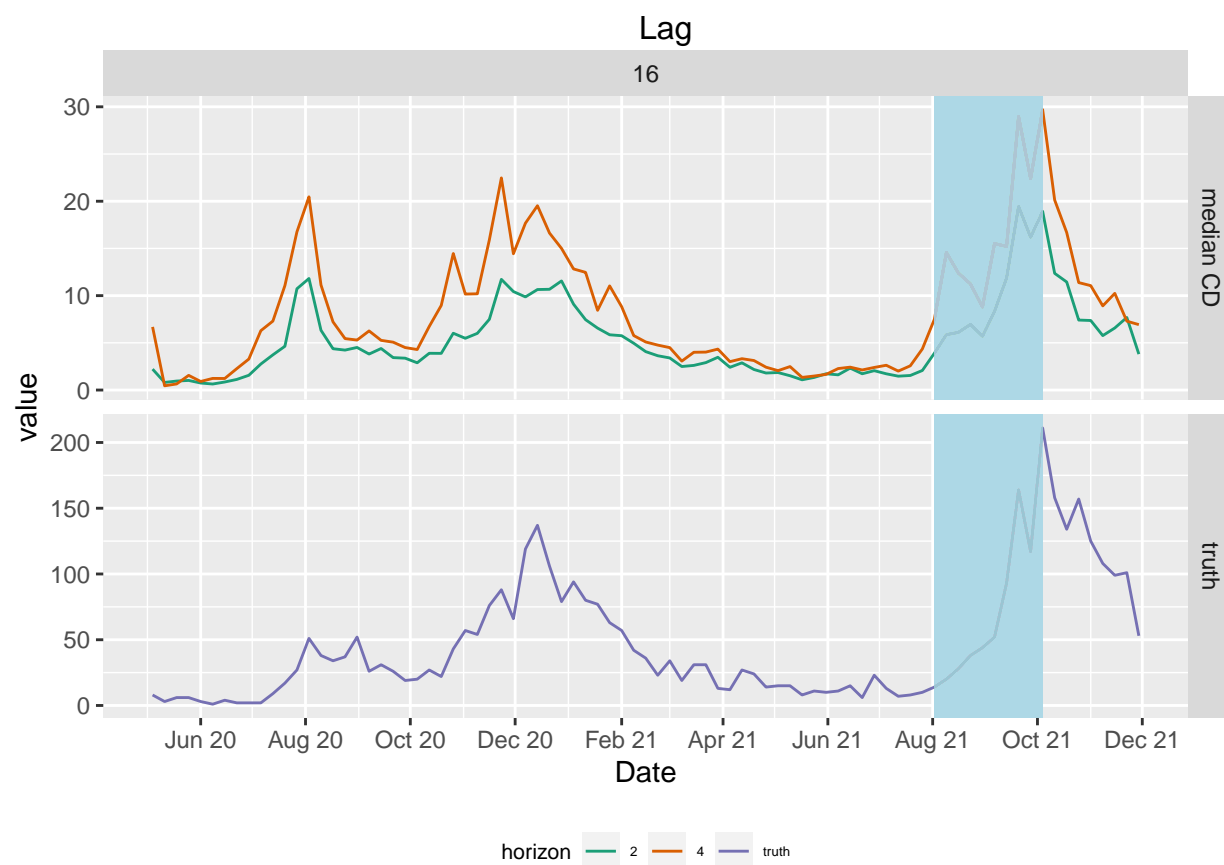
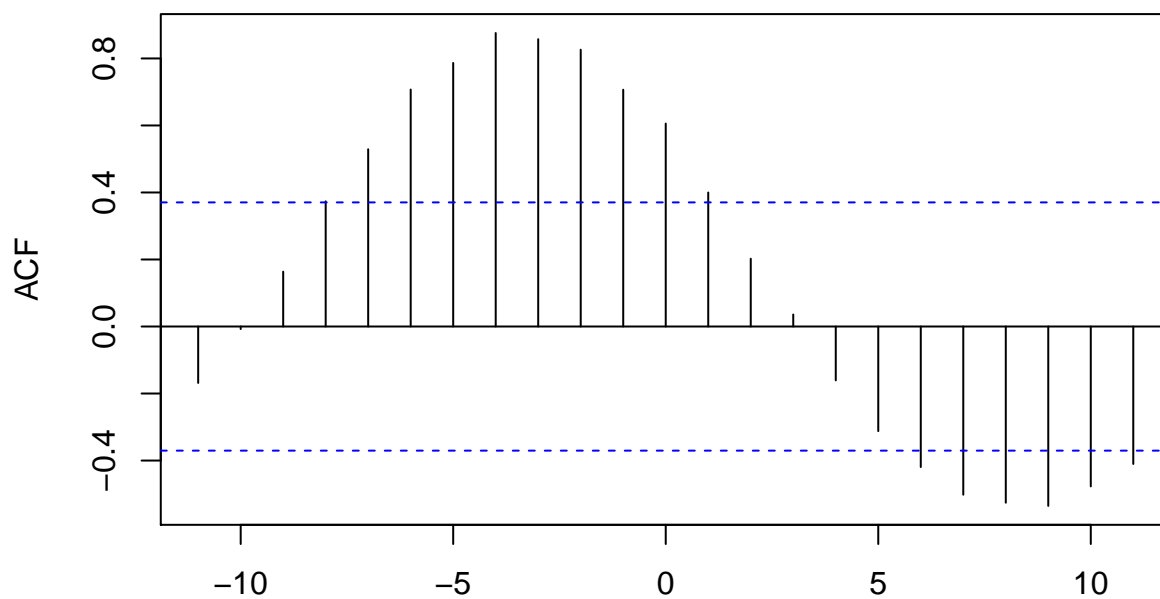




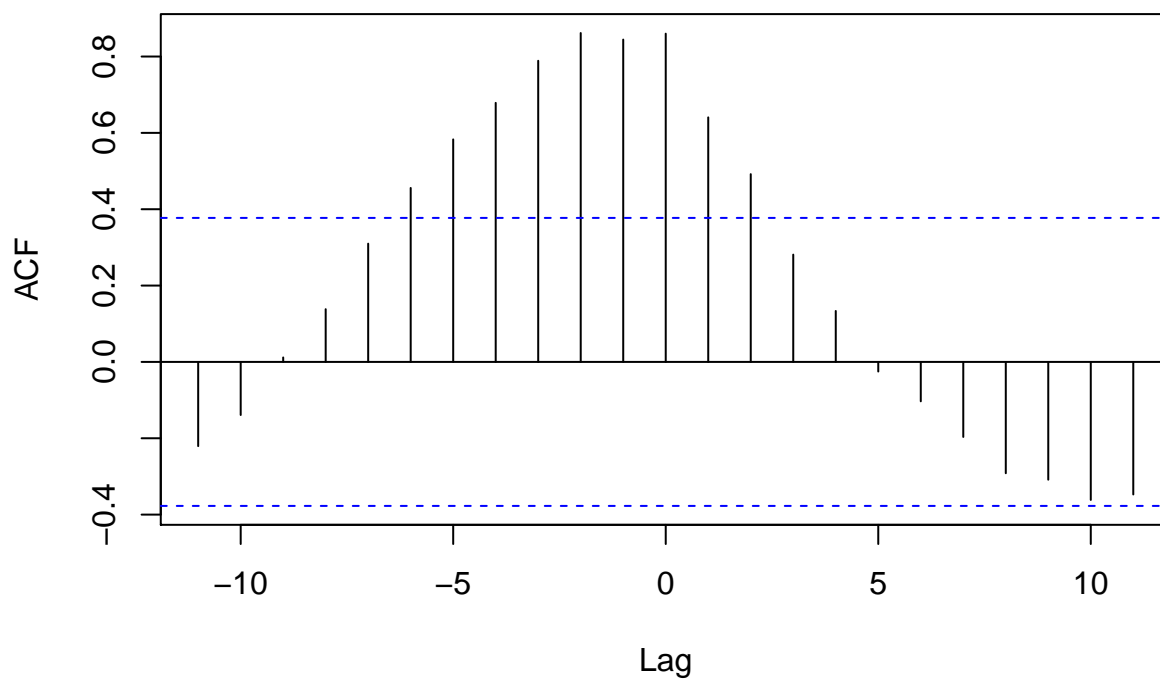
2 wk ahead – 13



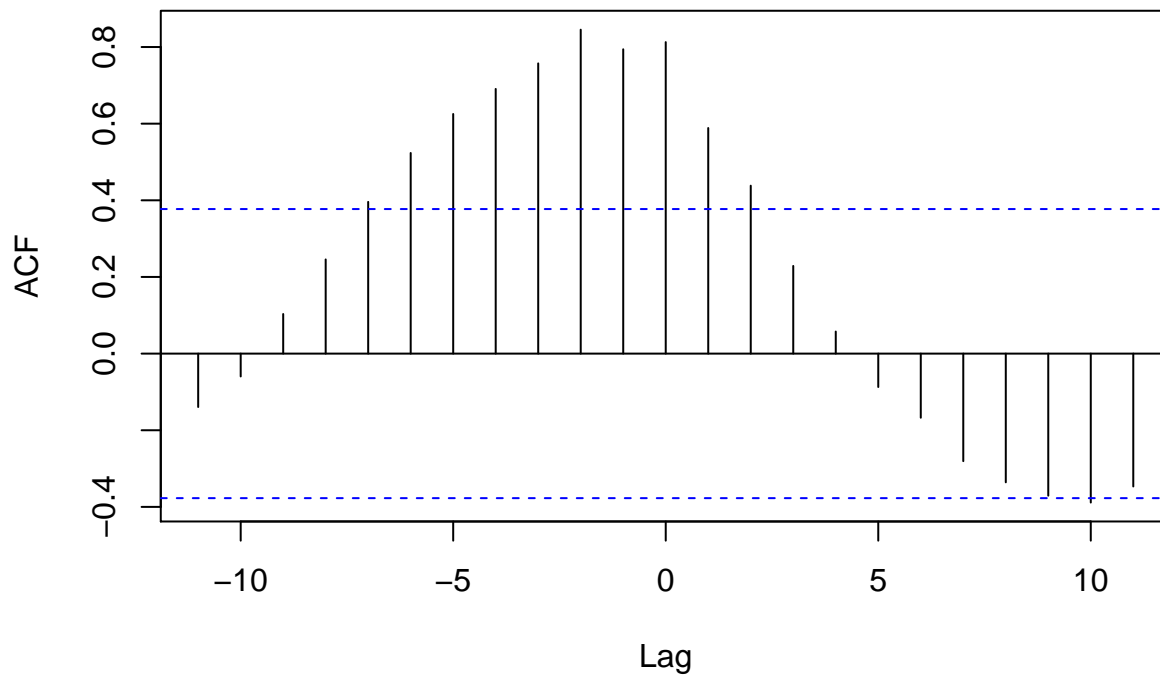
4 wk ahead – 13

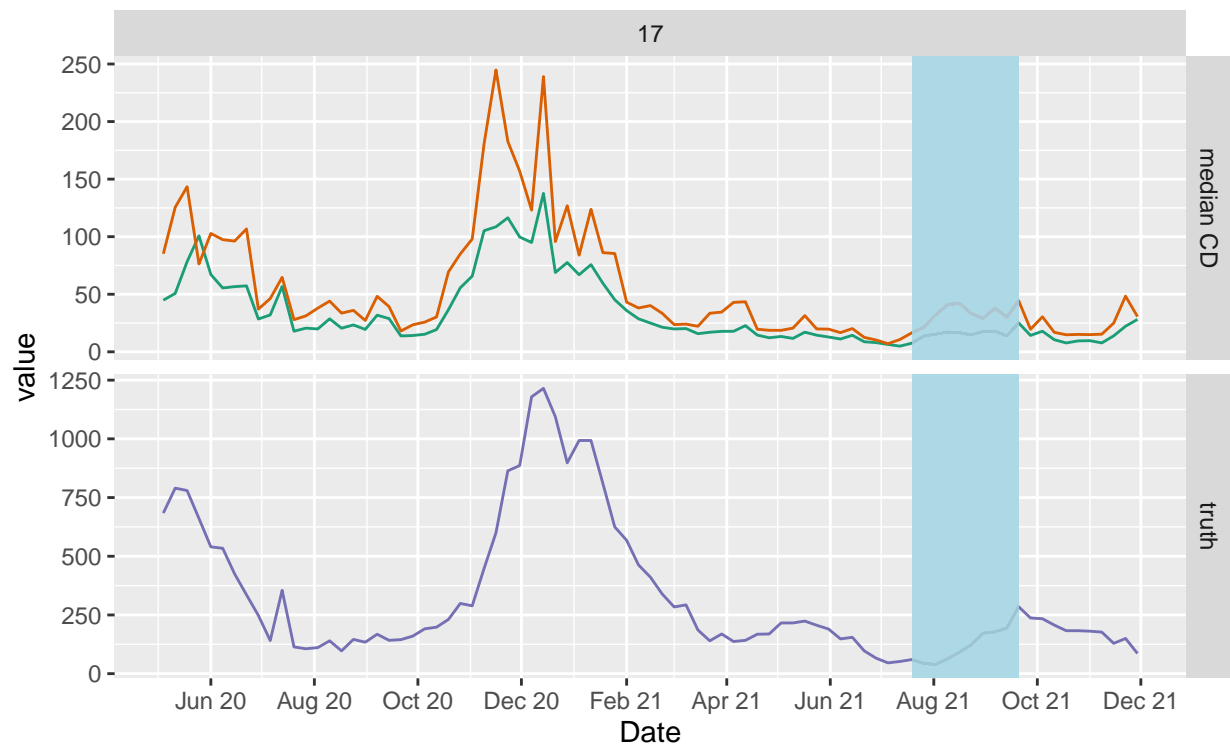


2 wk ahead – 16

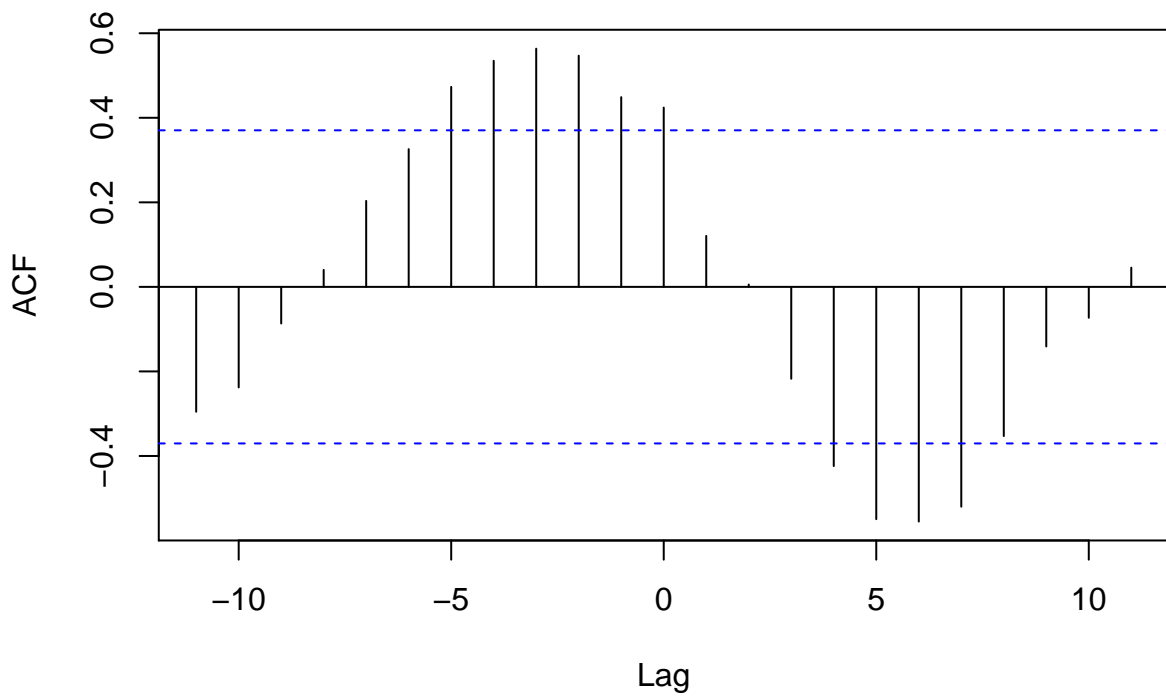


4 wk ahead – 16

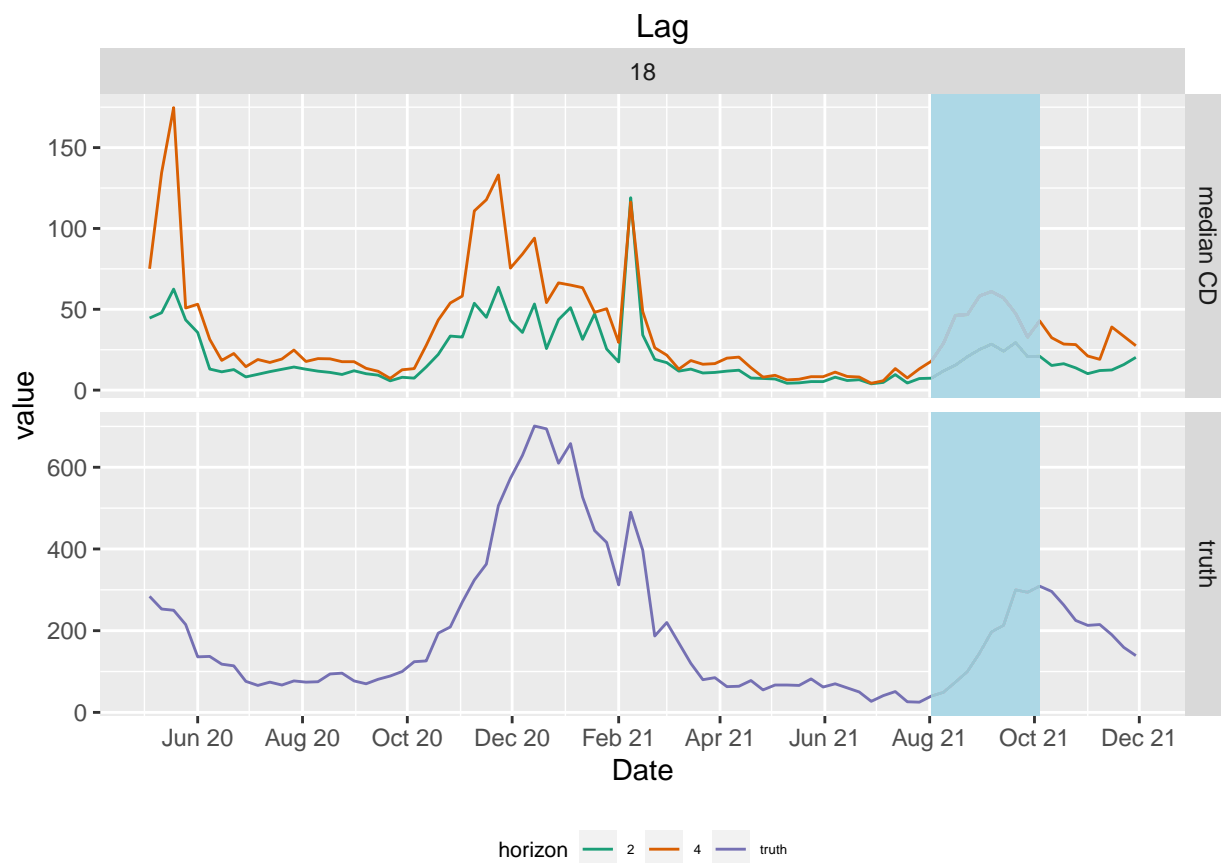
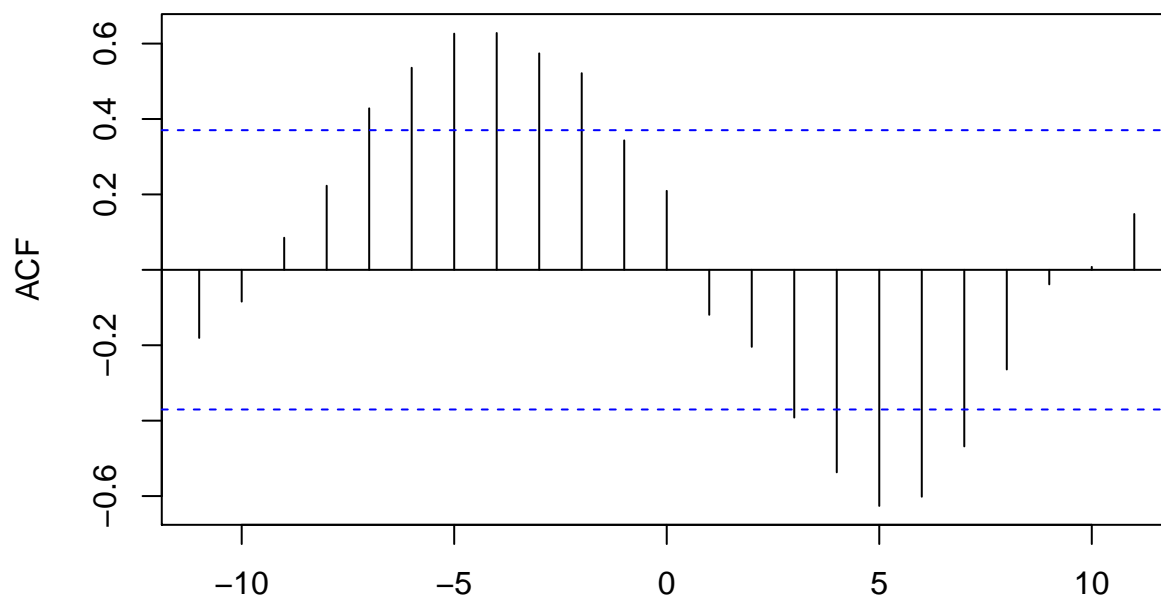




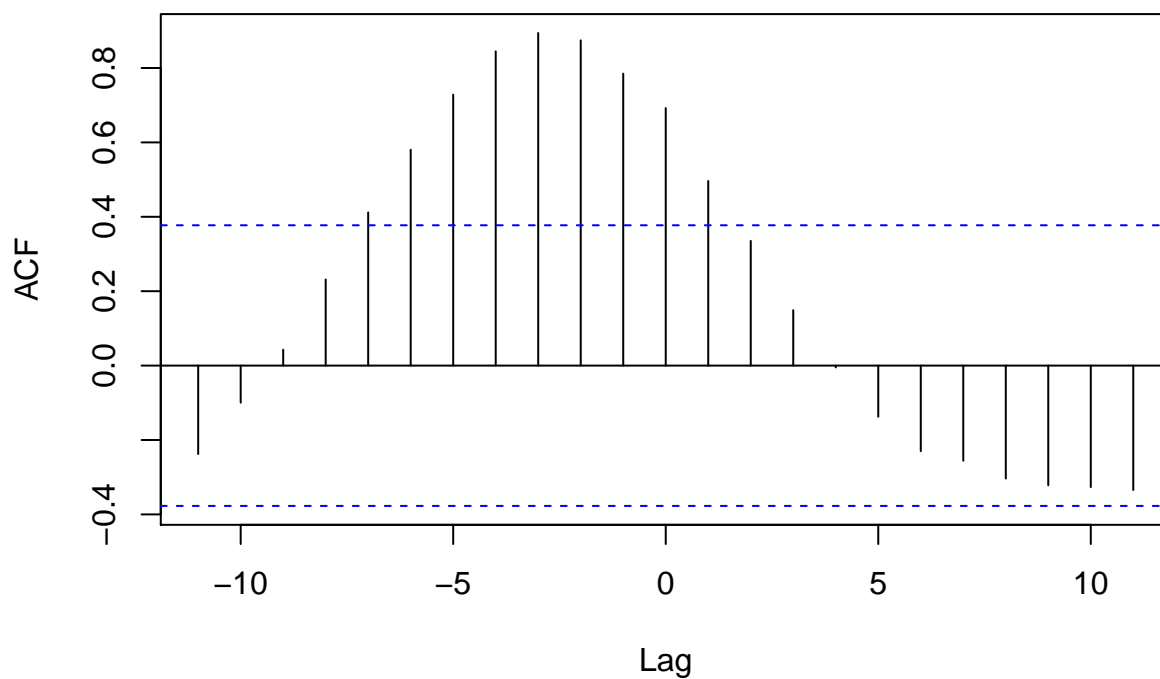
2 wk ahead – 17



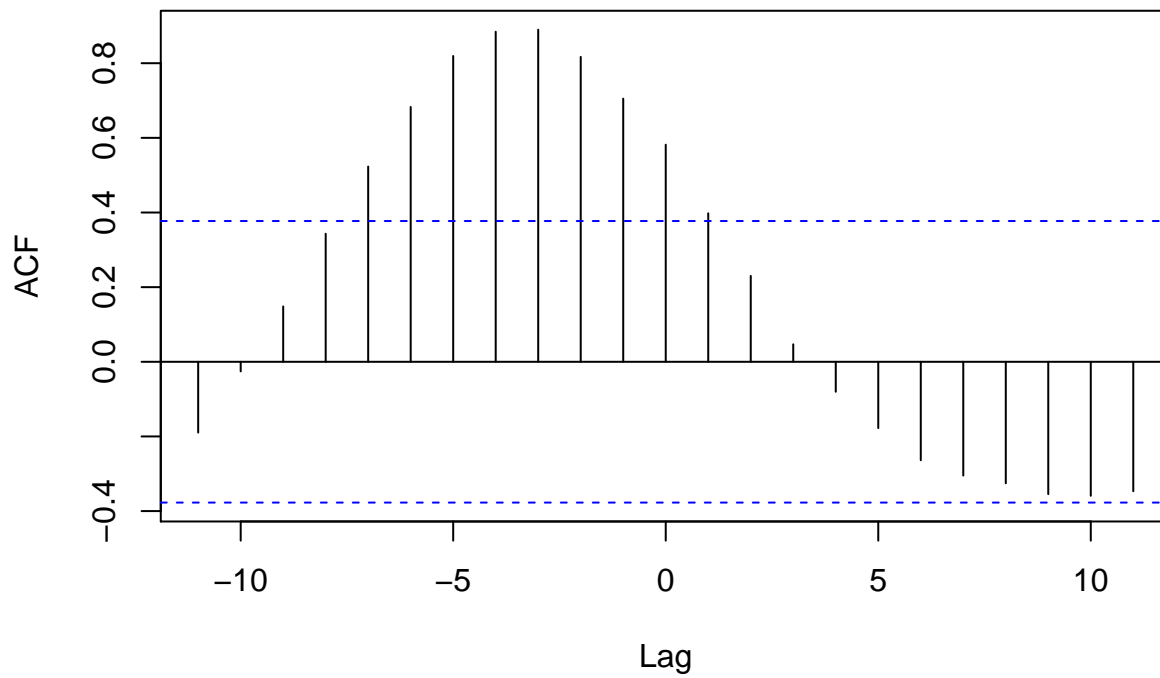
4 wk ahead – 17

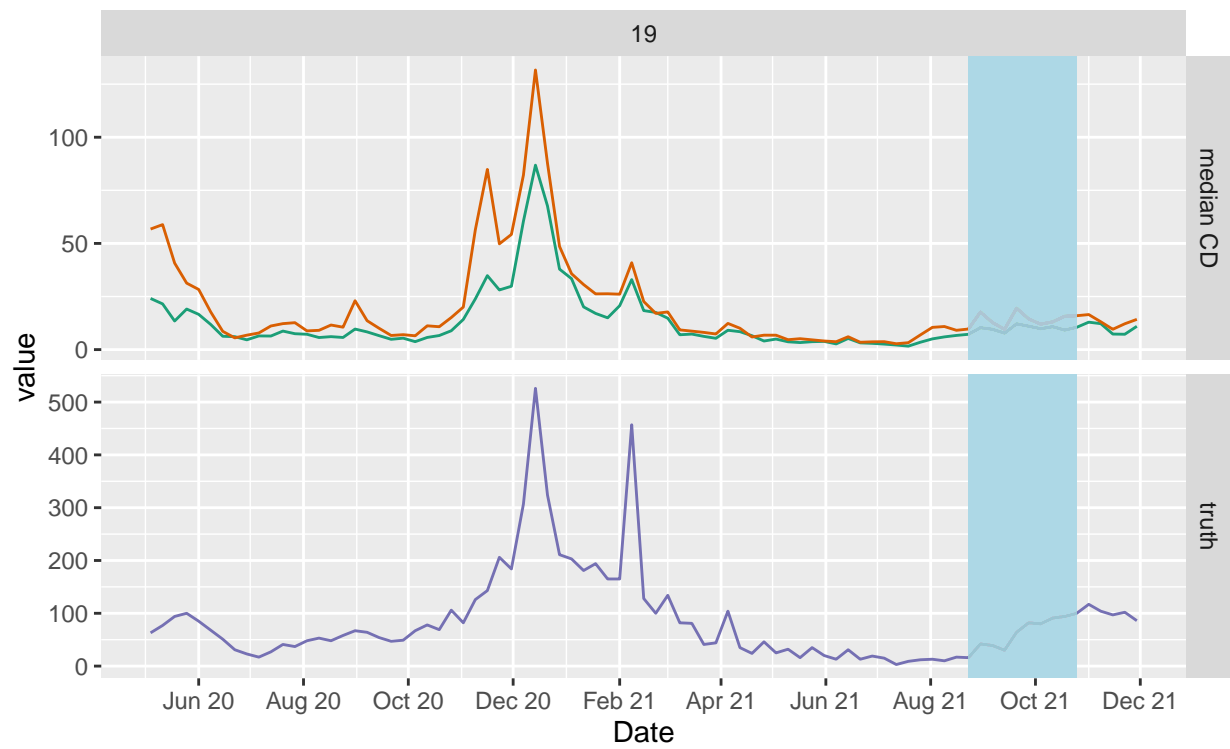


2 wk ahead – 18



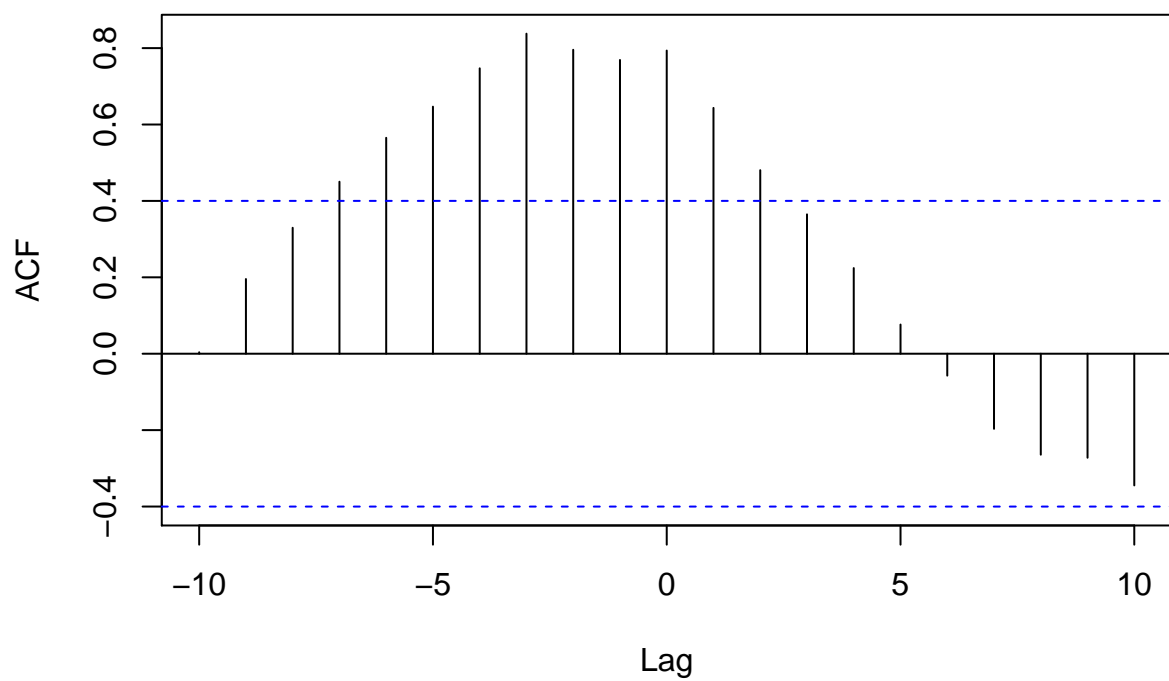
4 wk ahead – 18



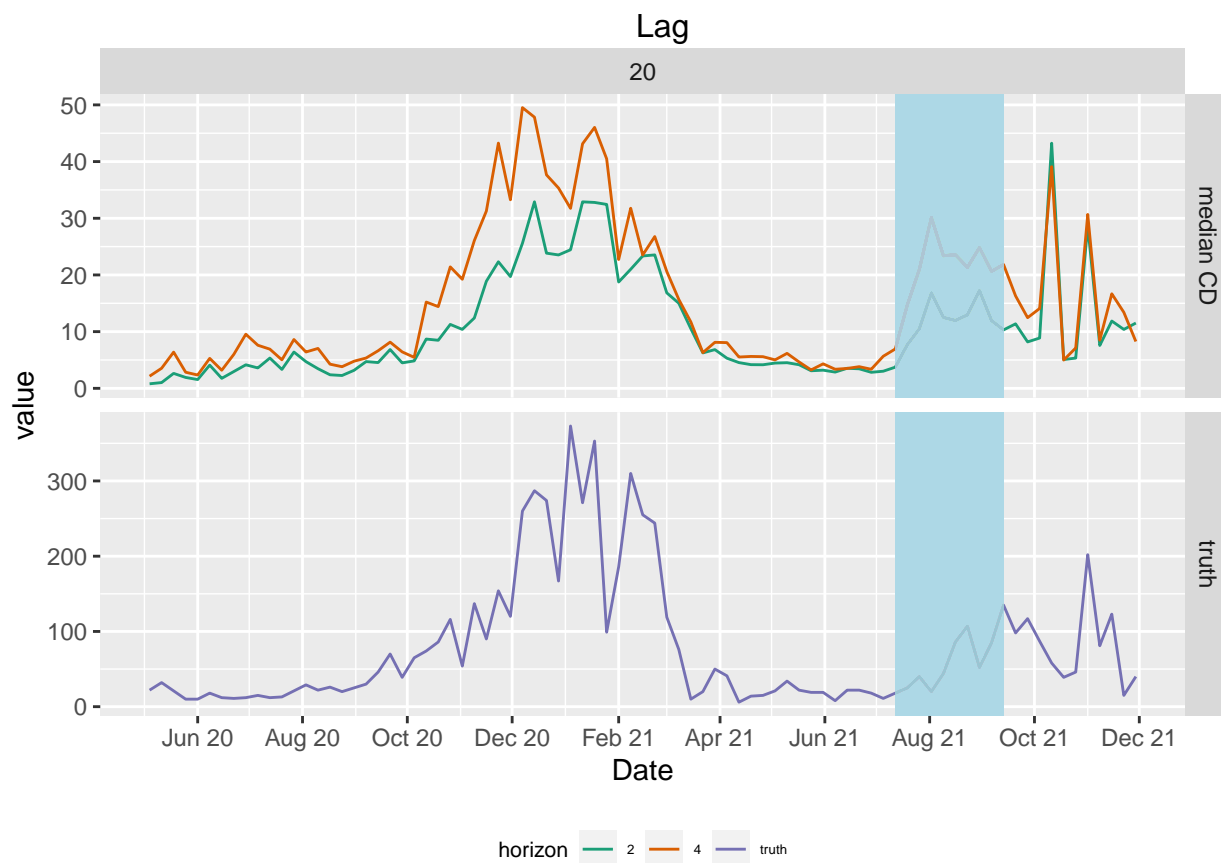
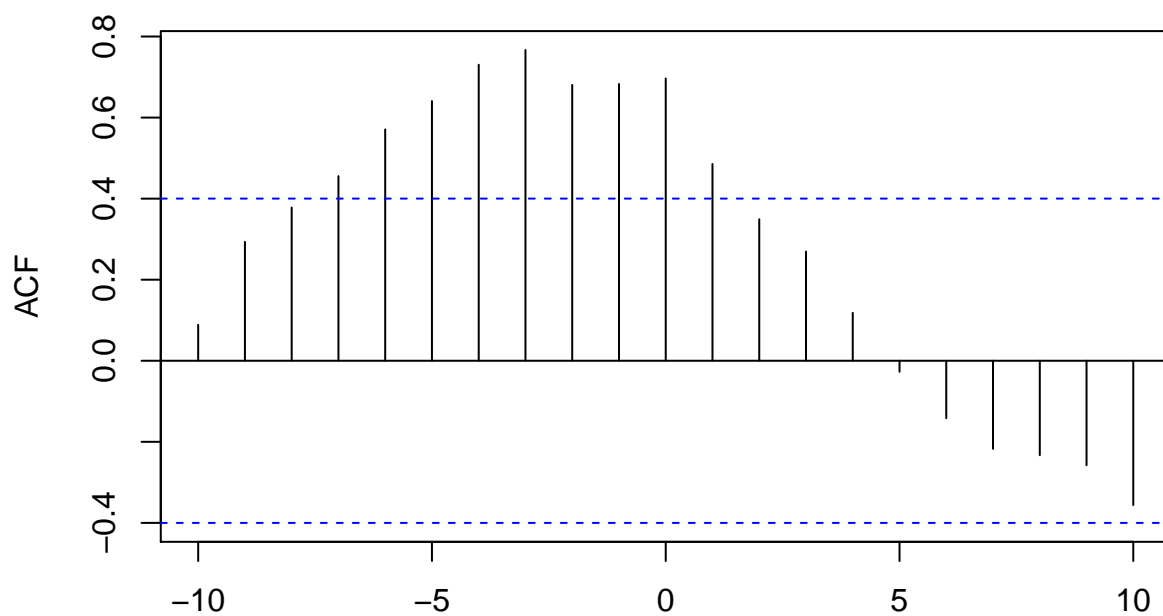


horizon 2 4 truth

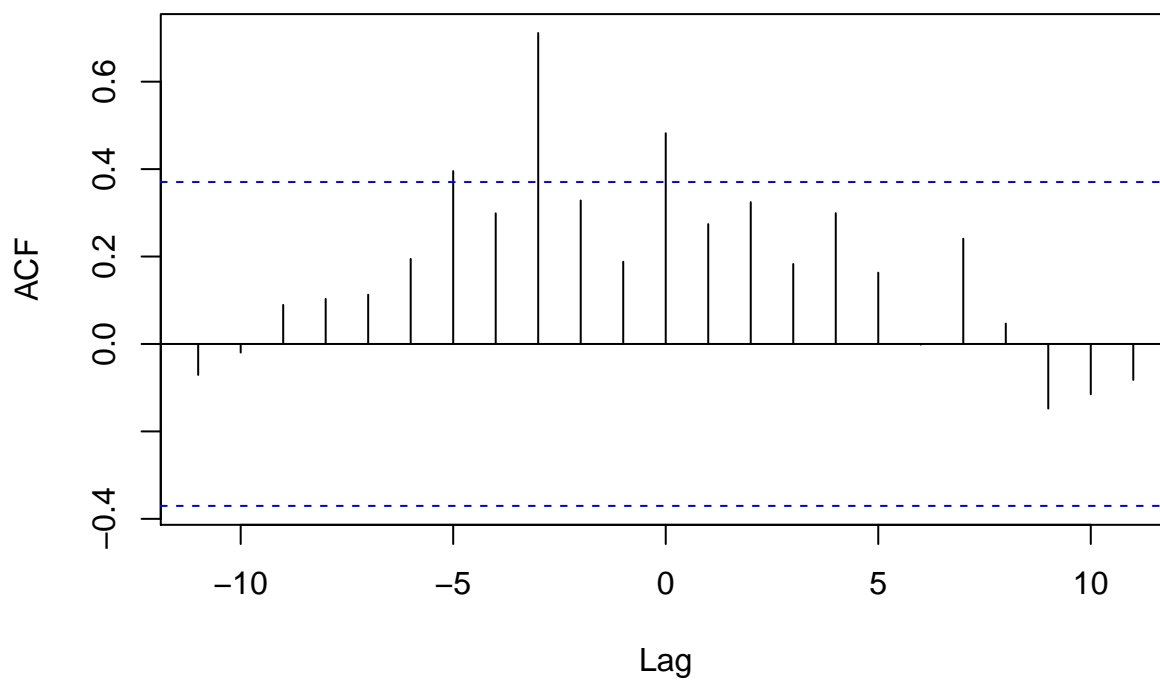
2 wk ahead – 19



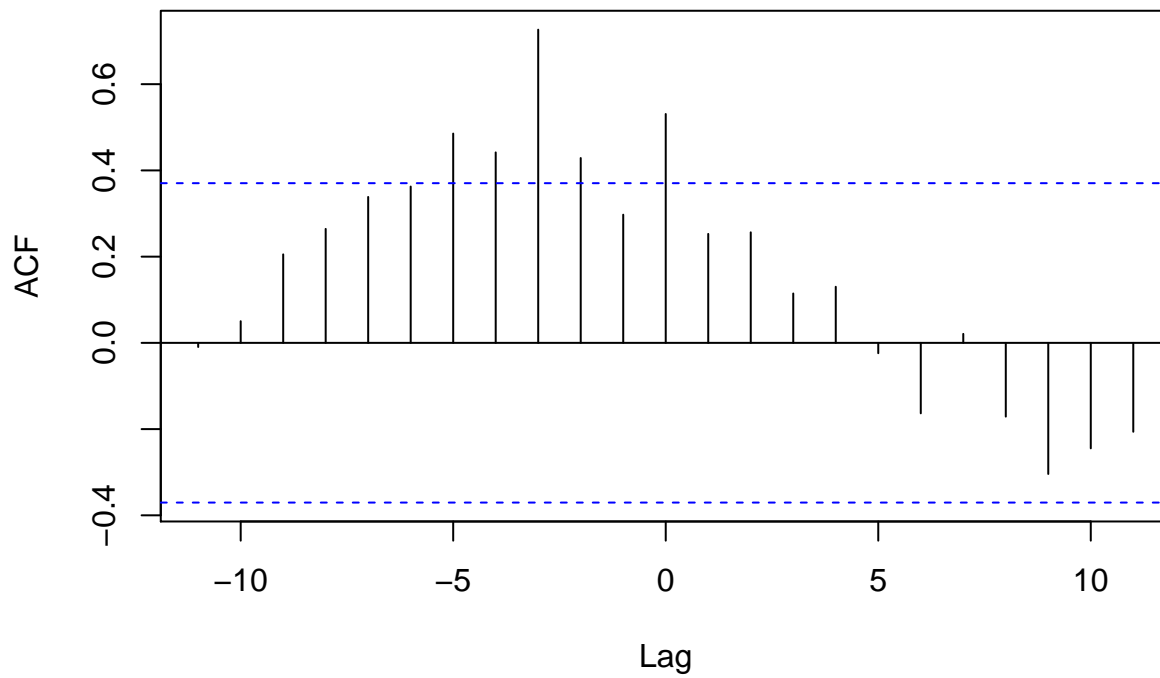
4 wk ahead – 19

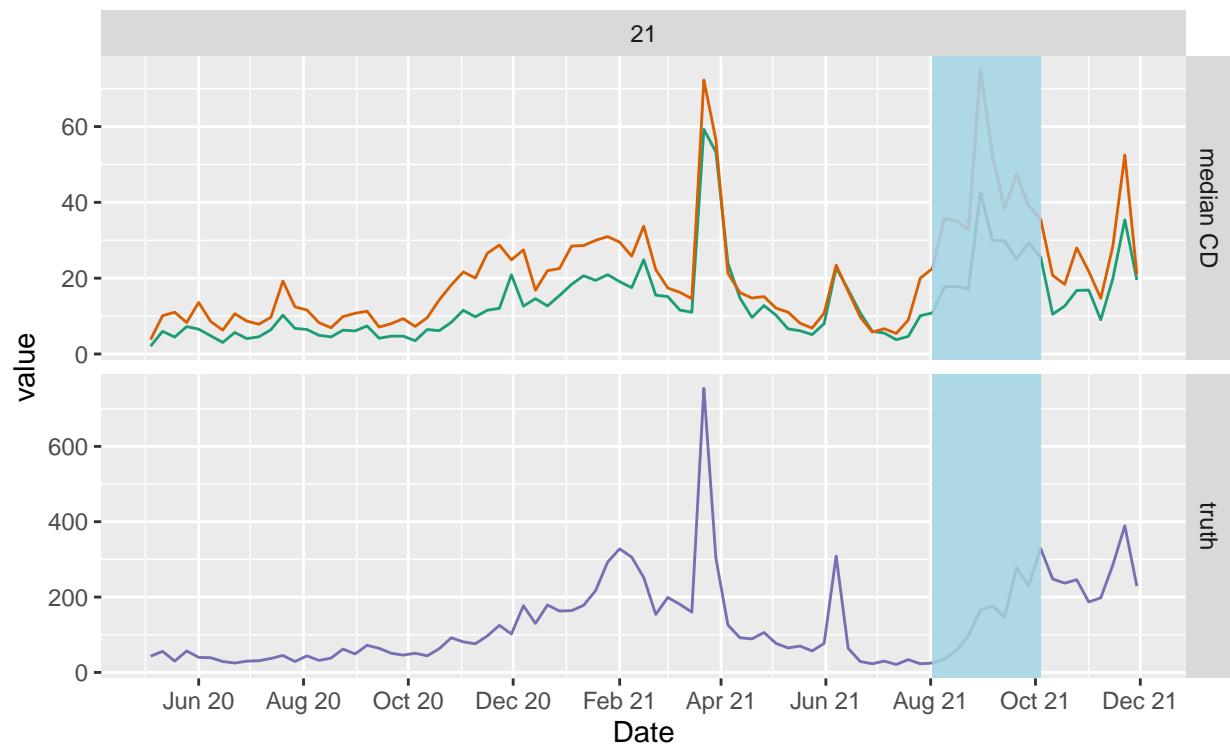


2 wk ahead – 20

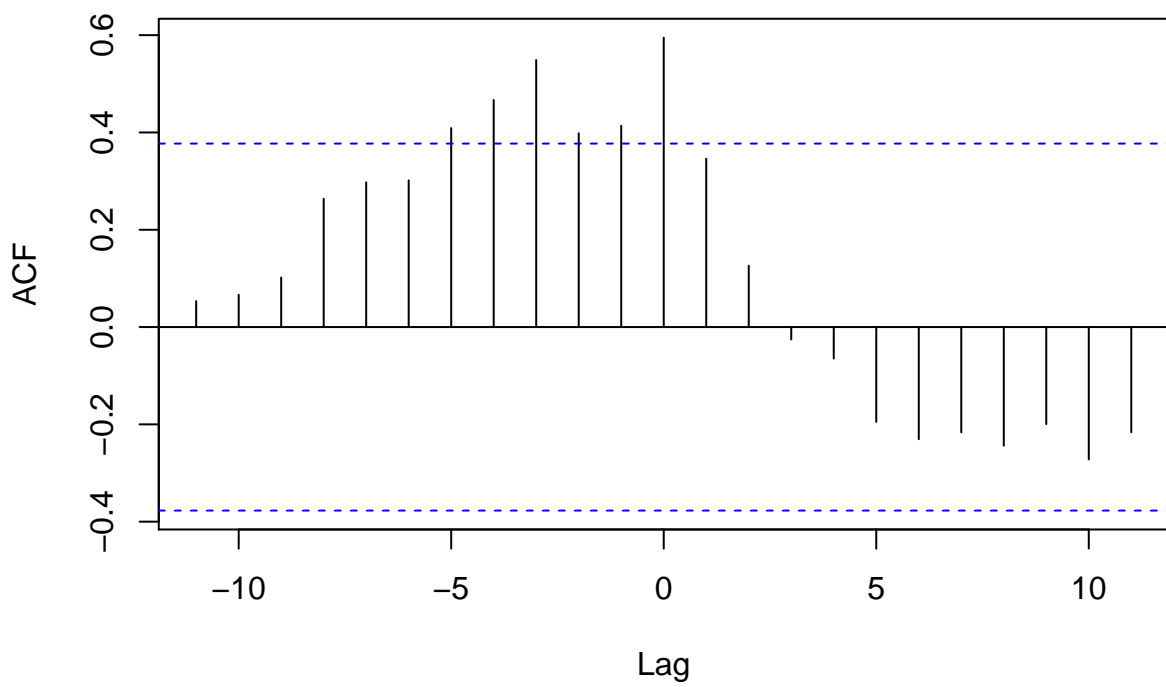


4 wk ahead – 20

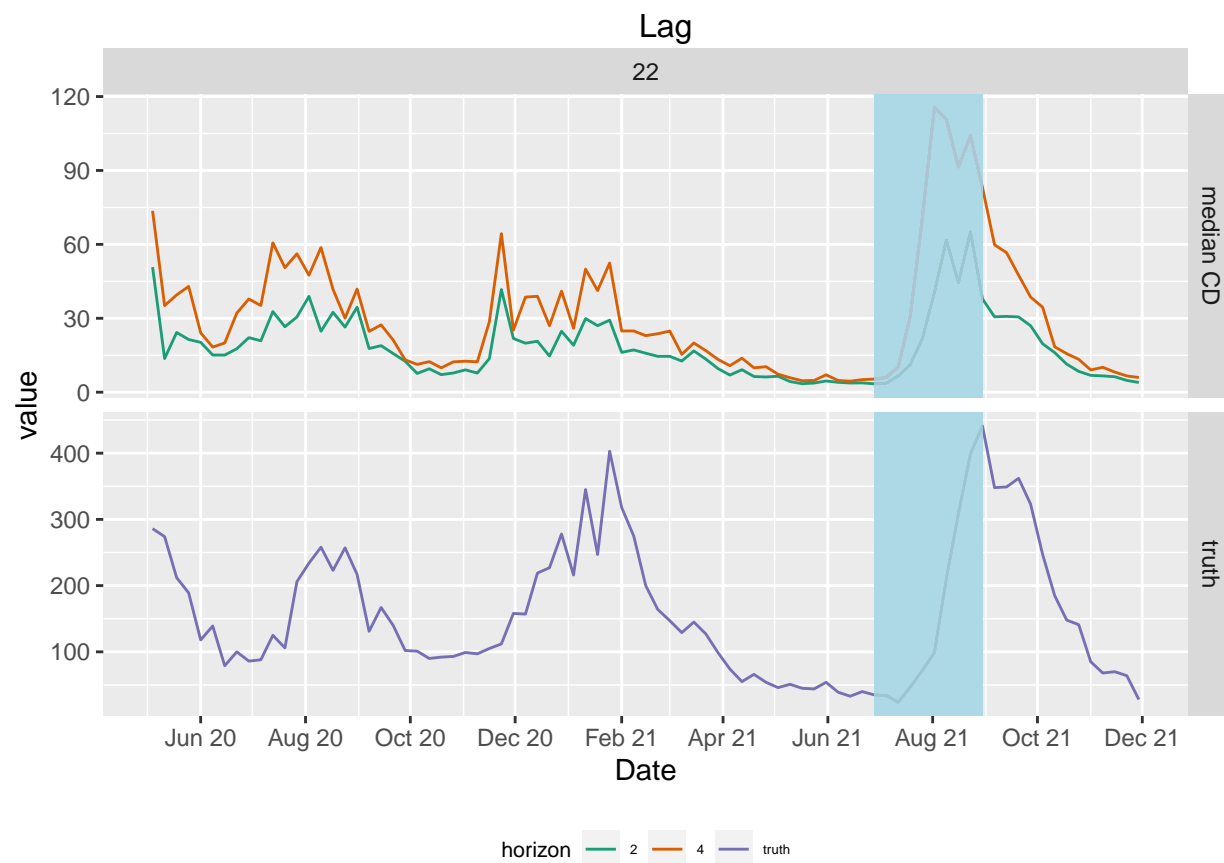
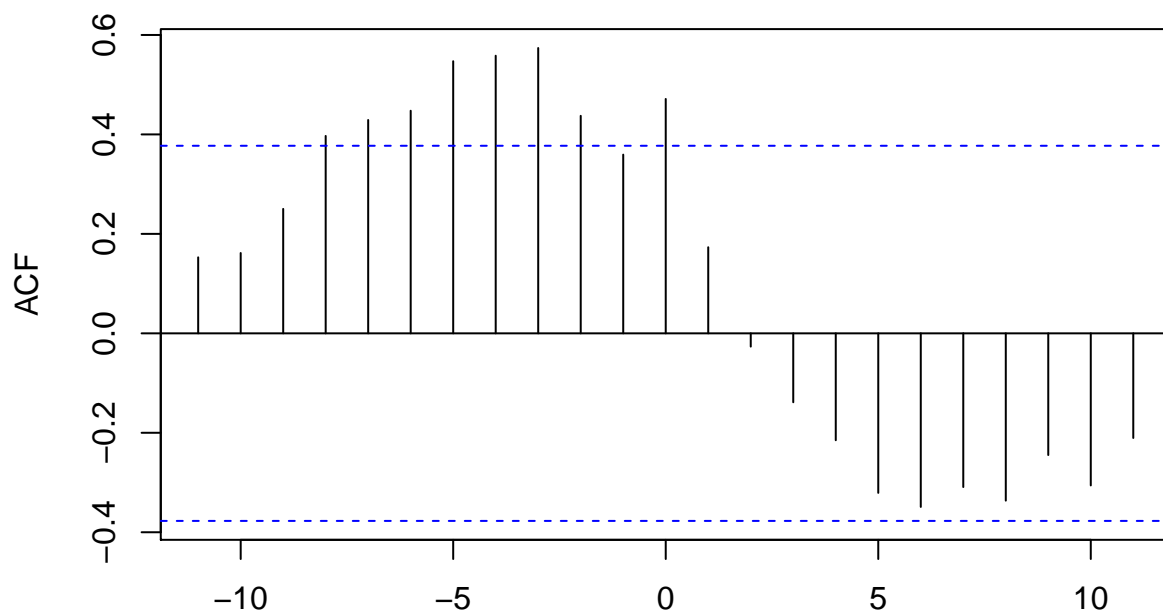




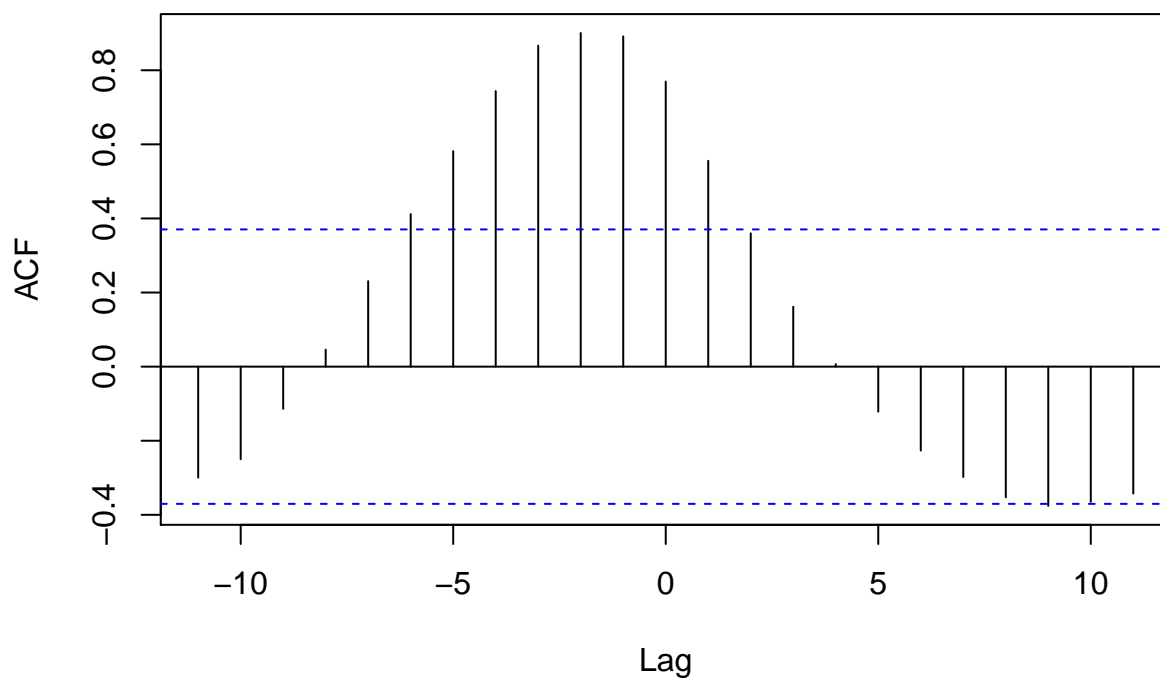
2 wk ahead – 21



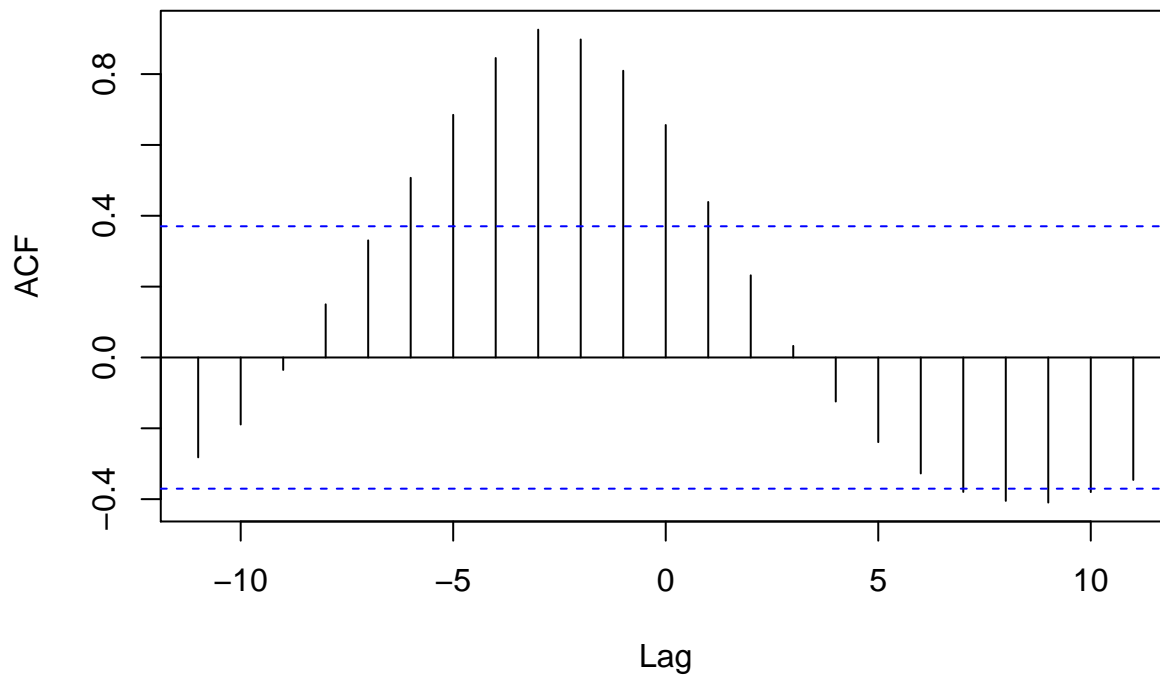
4 wk ahead – 21

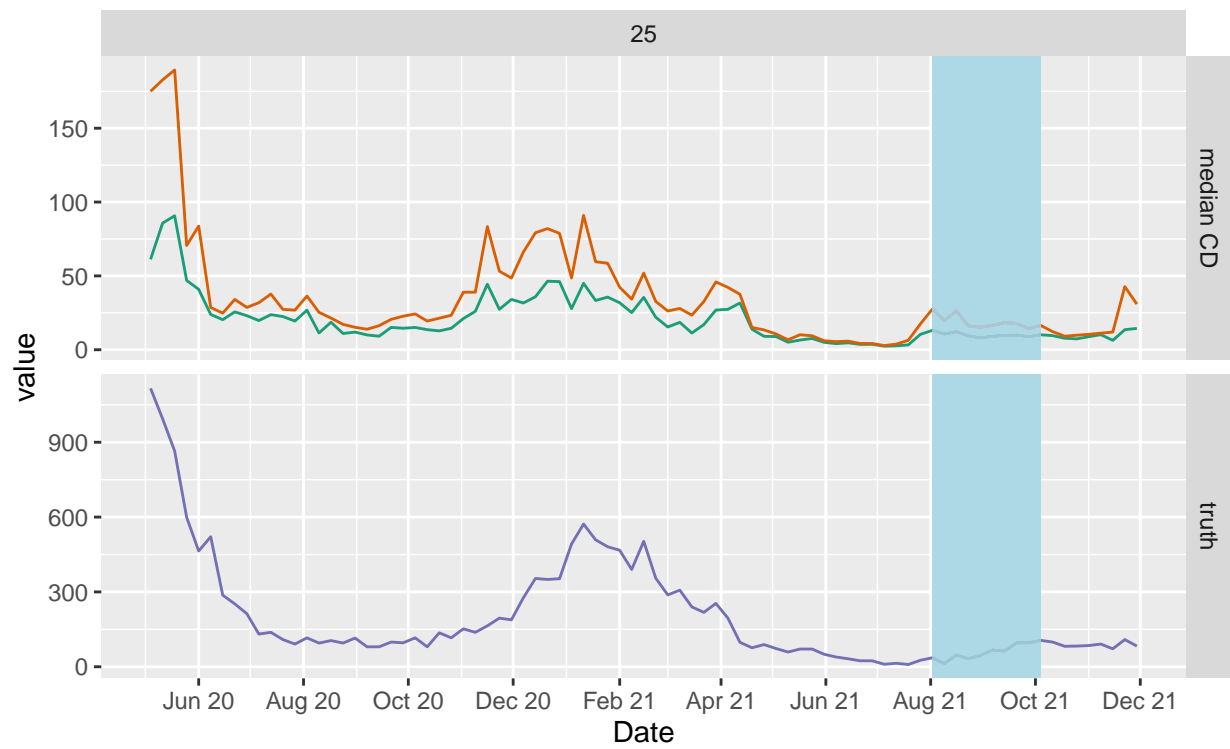


2 wk ahead – 22

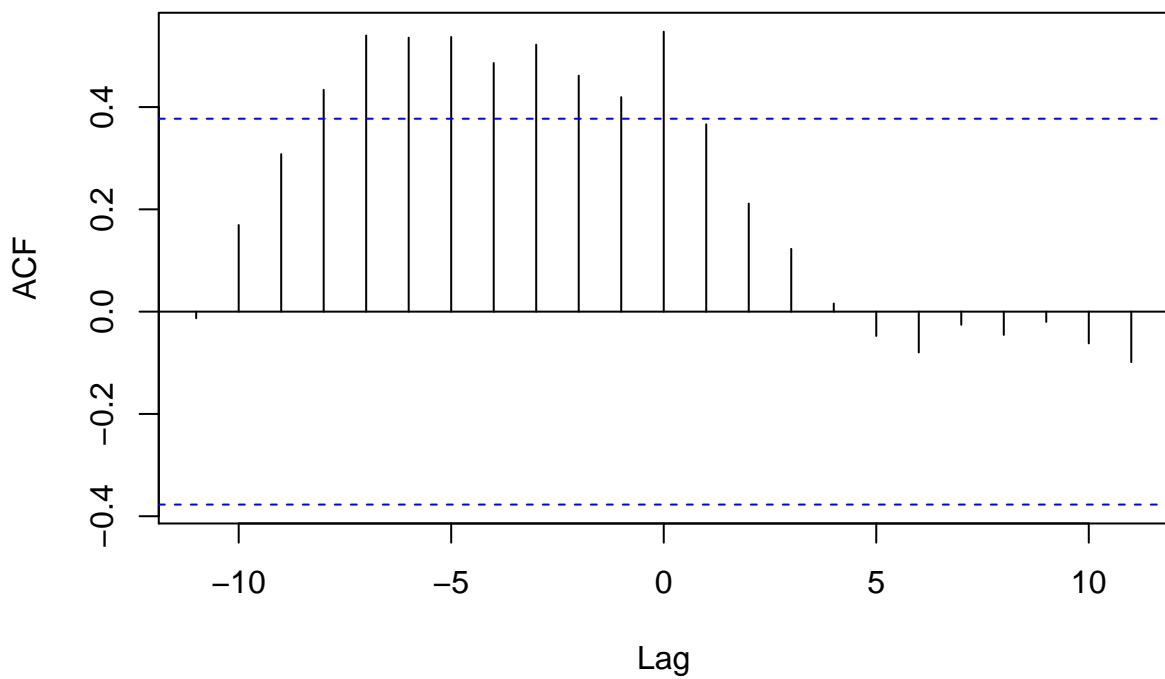


4 wk ahead – 22

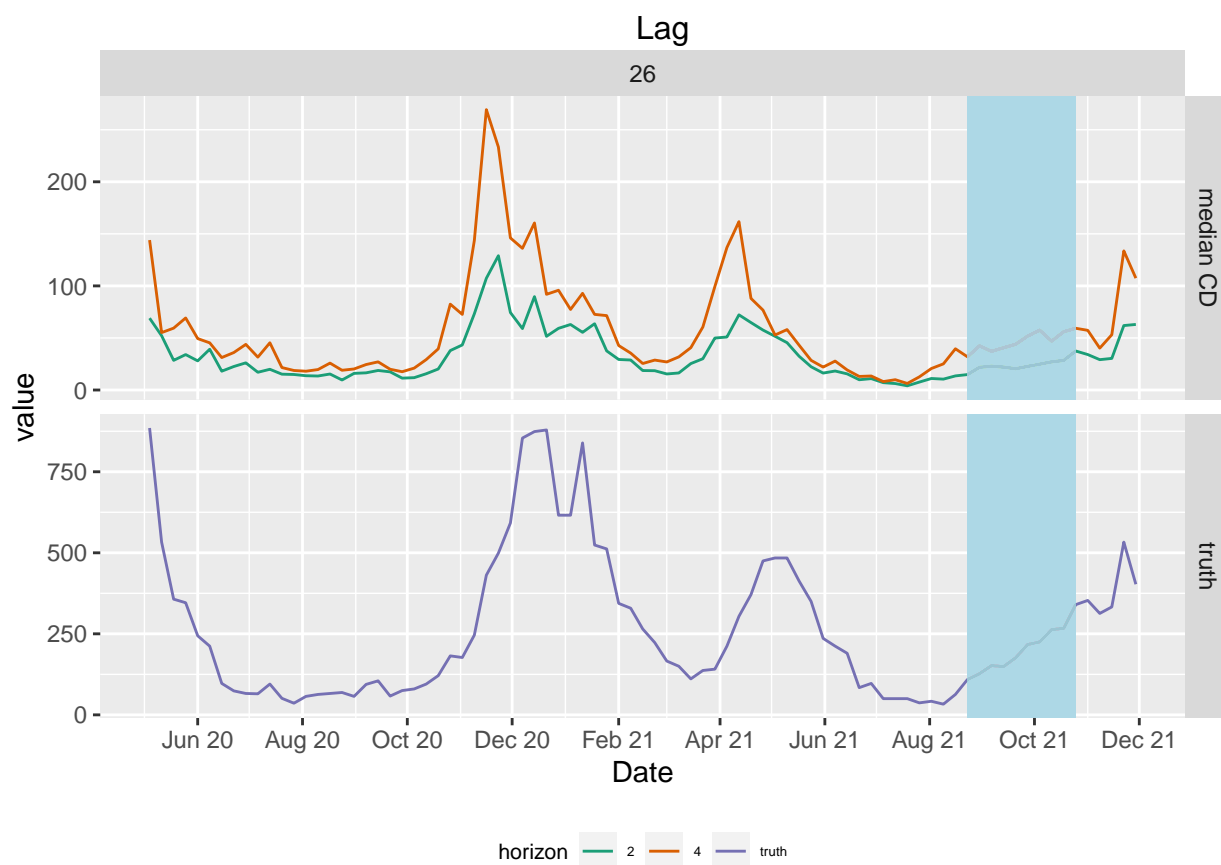
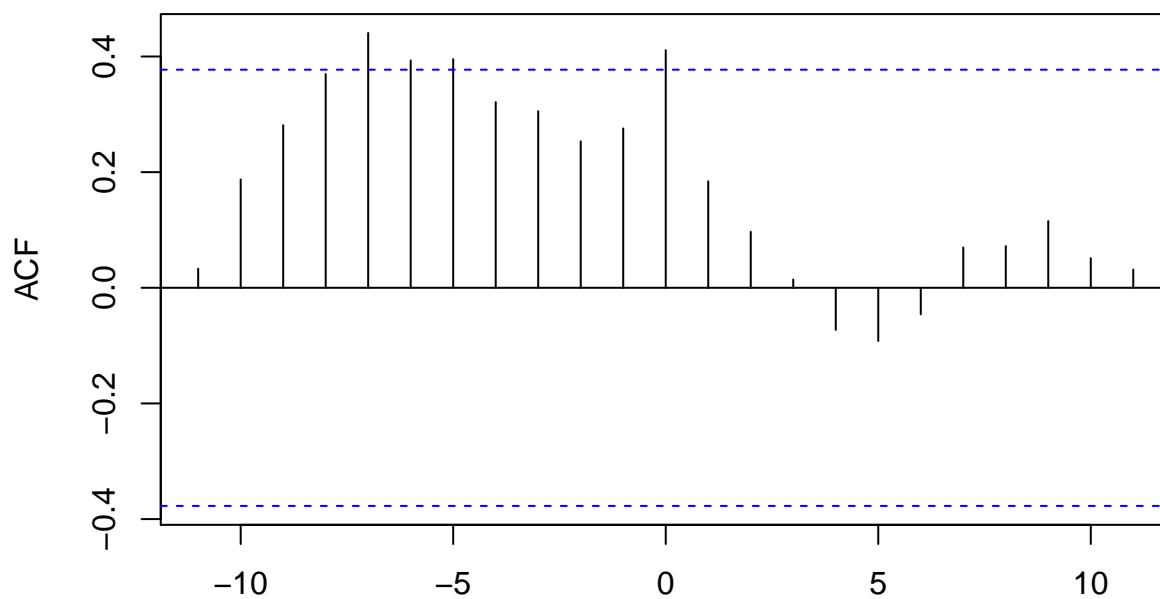




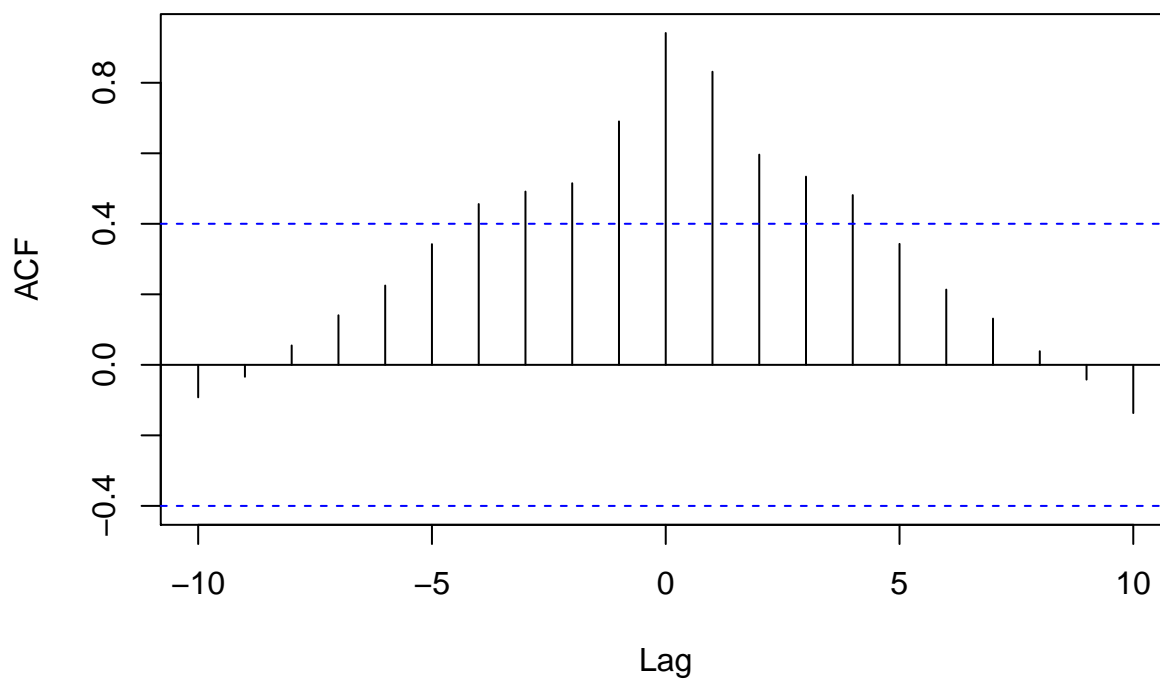
2 wk ahead – 25



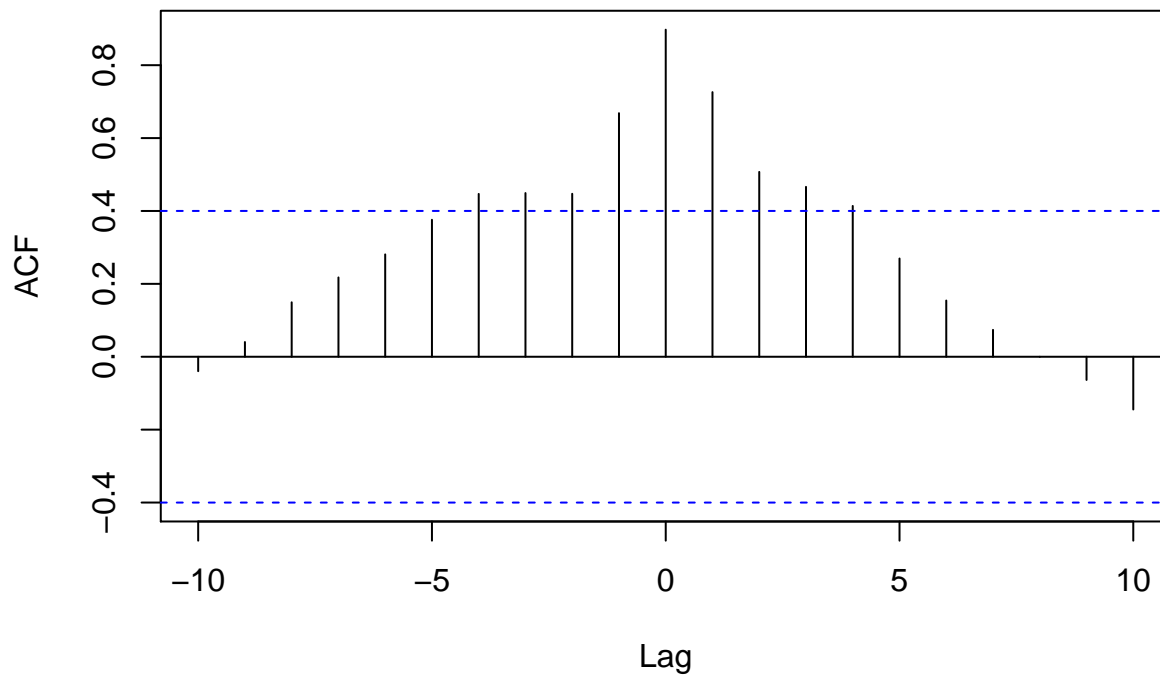
4 wk ahead – 25

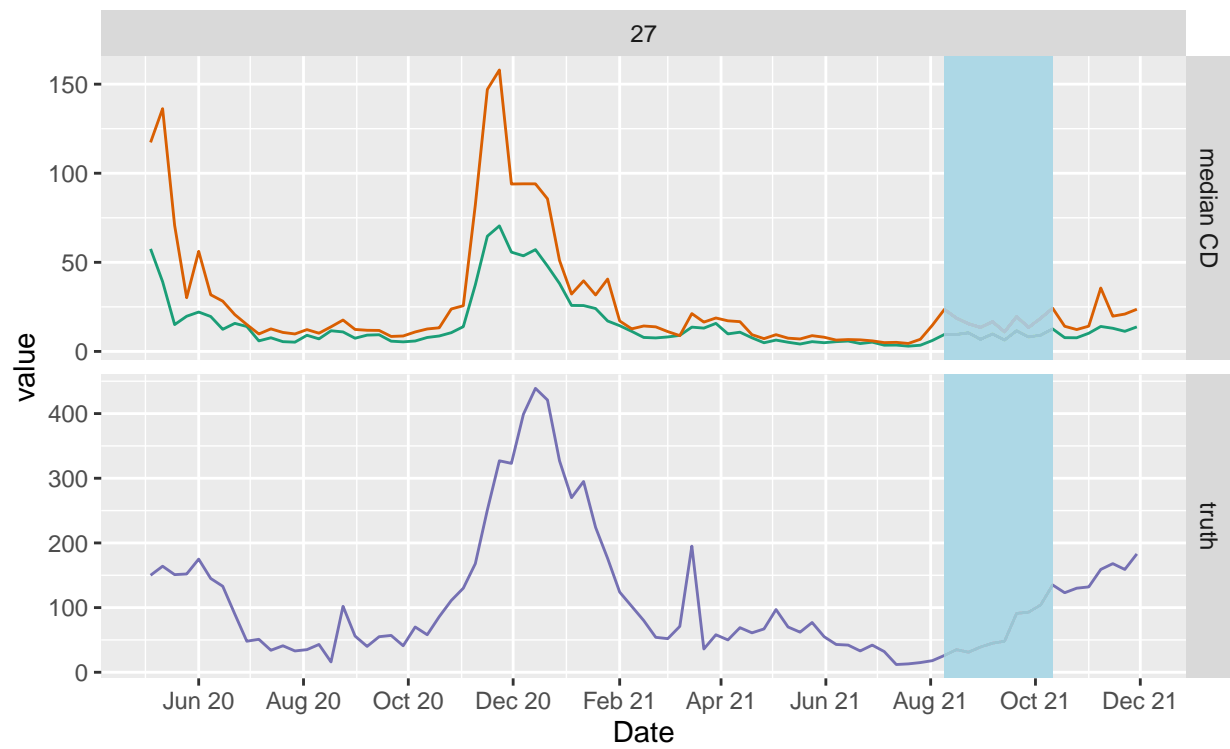


2 wk ahead – 26



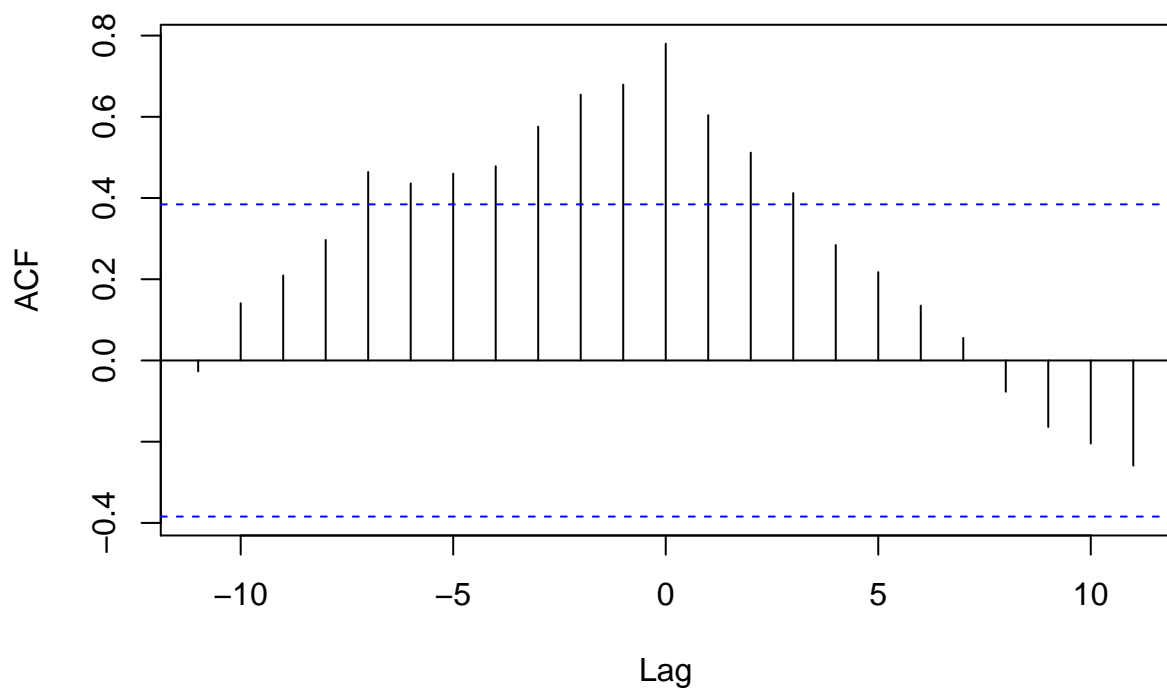
4 wk ahead – 26



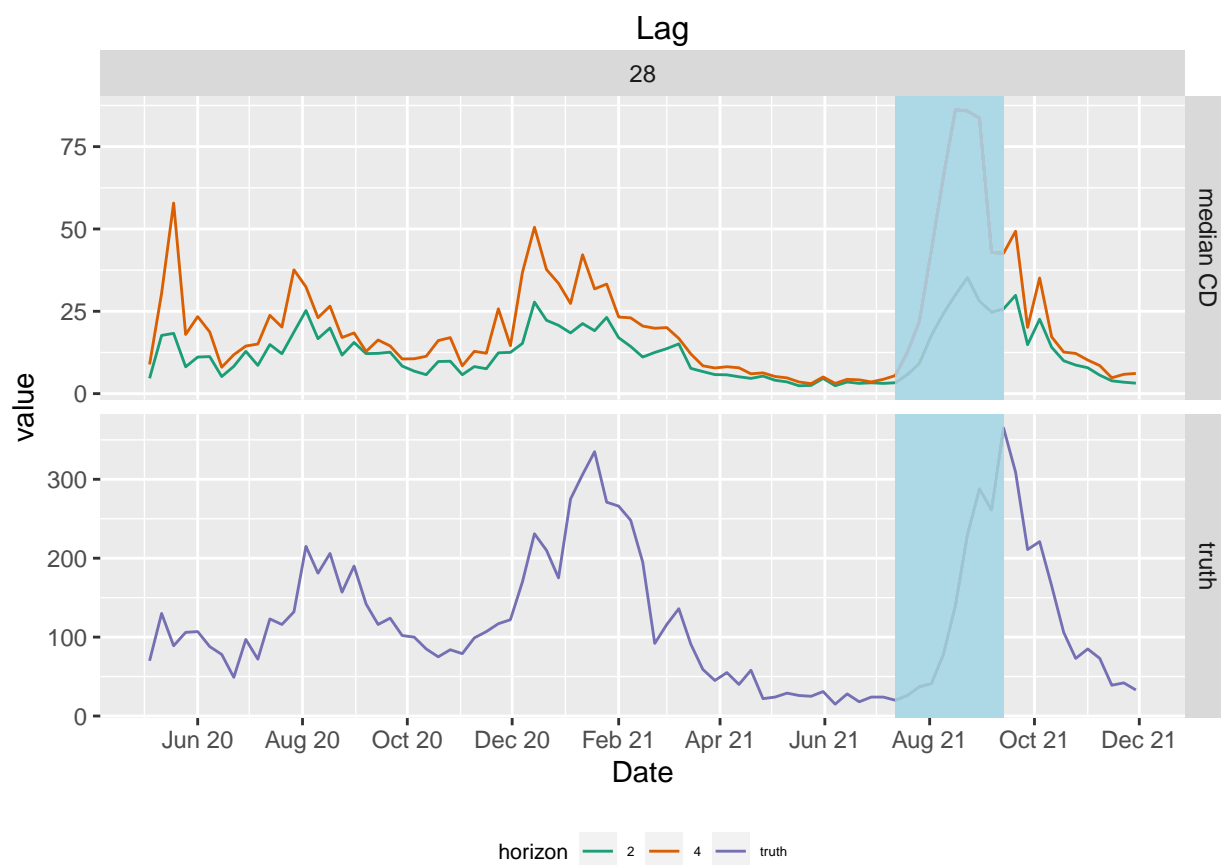
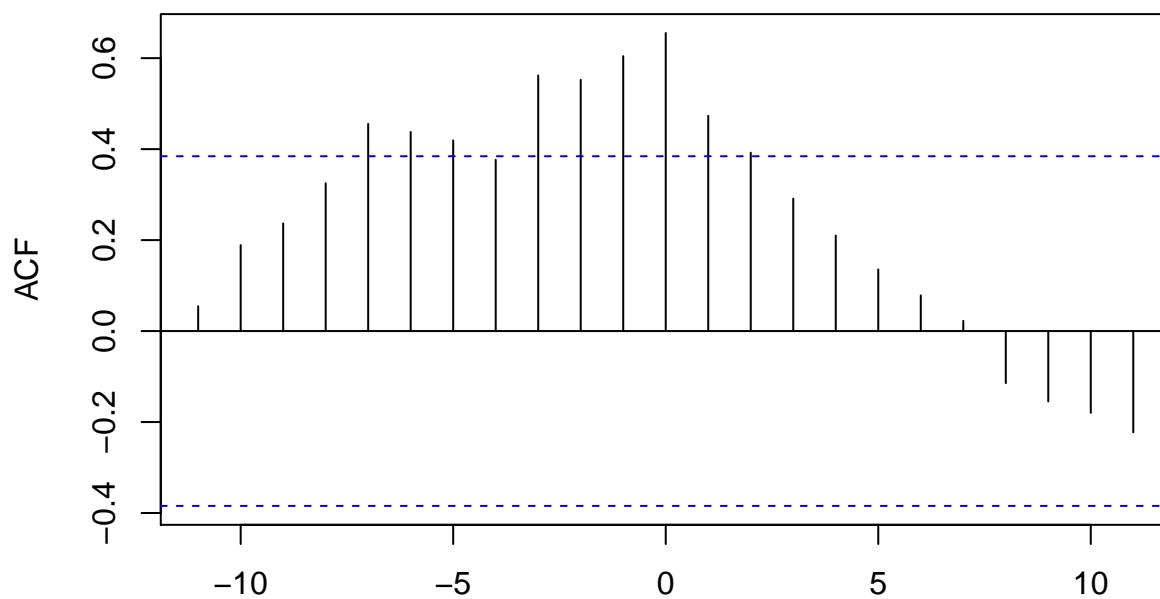


horizon 2 4 truth

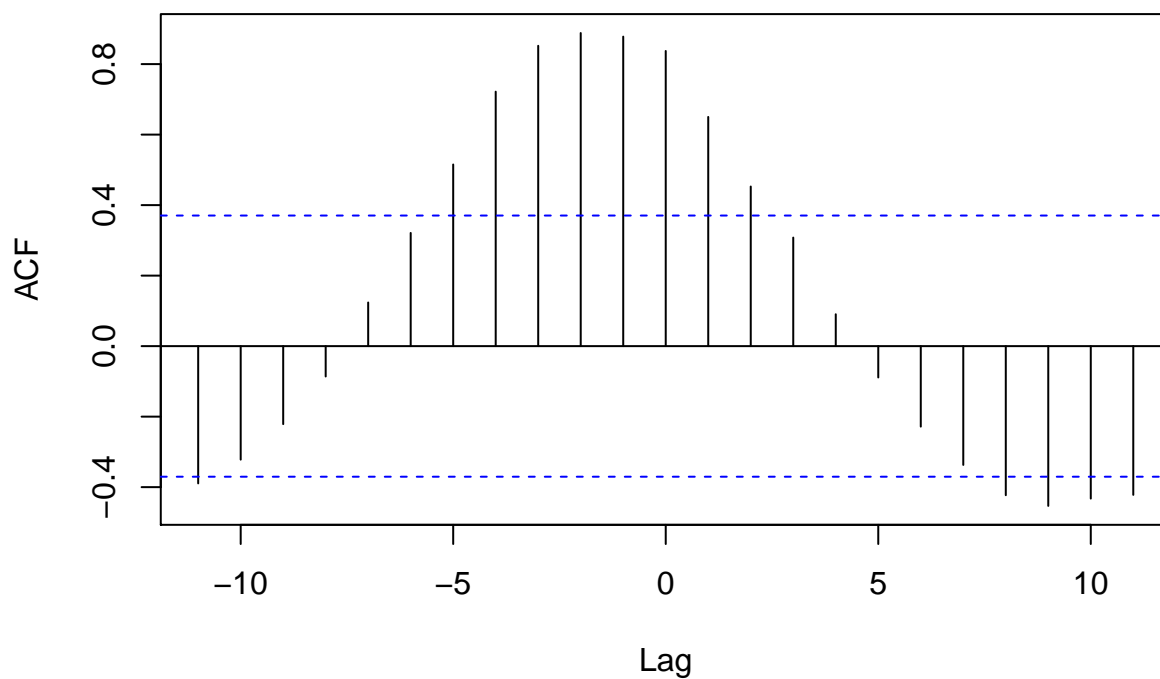
2 wk ahead – 27



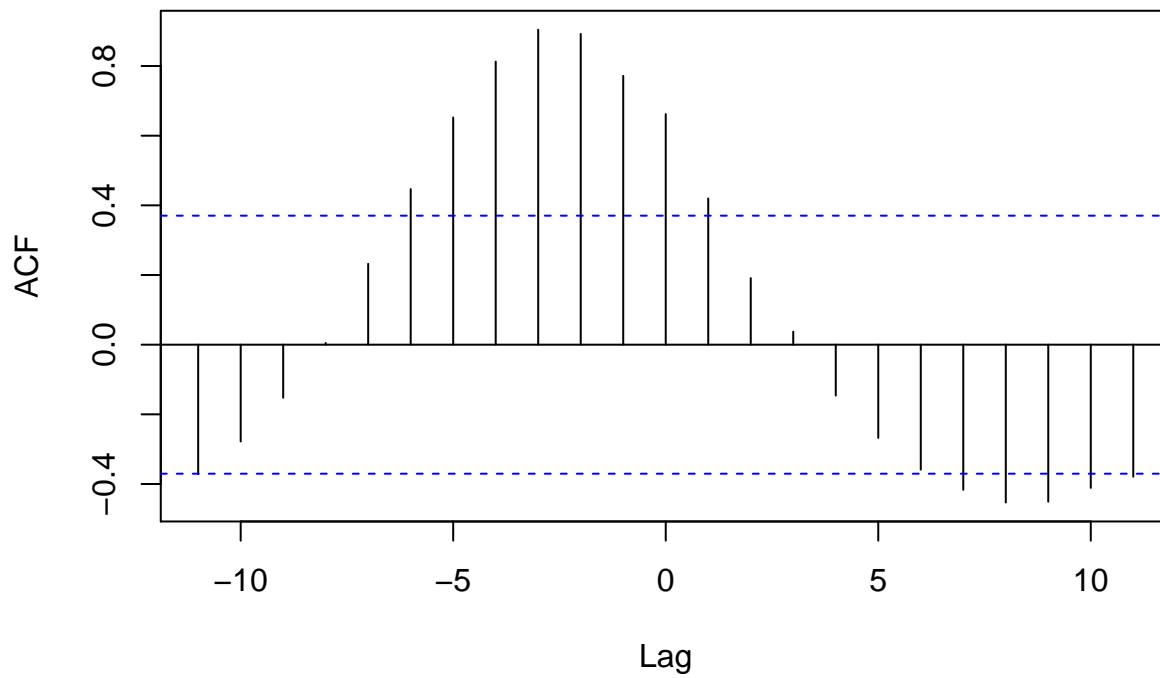
4 wk ahead – 27

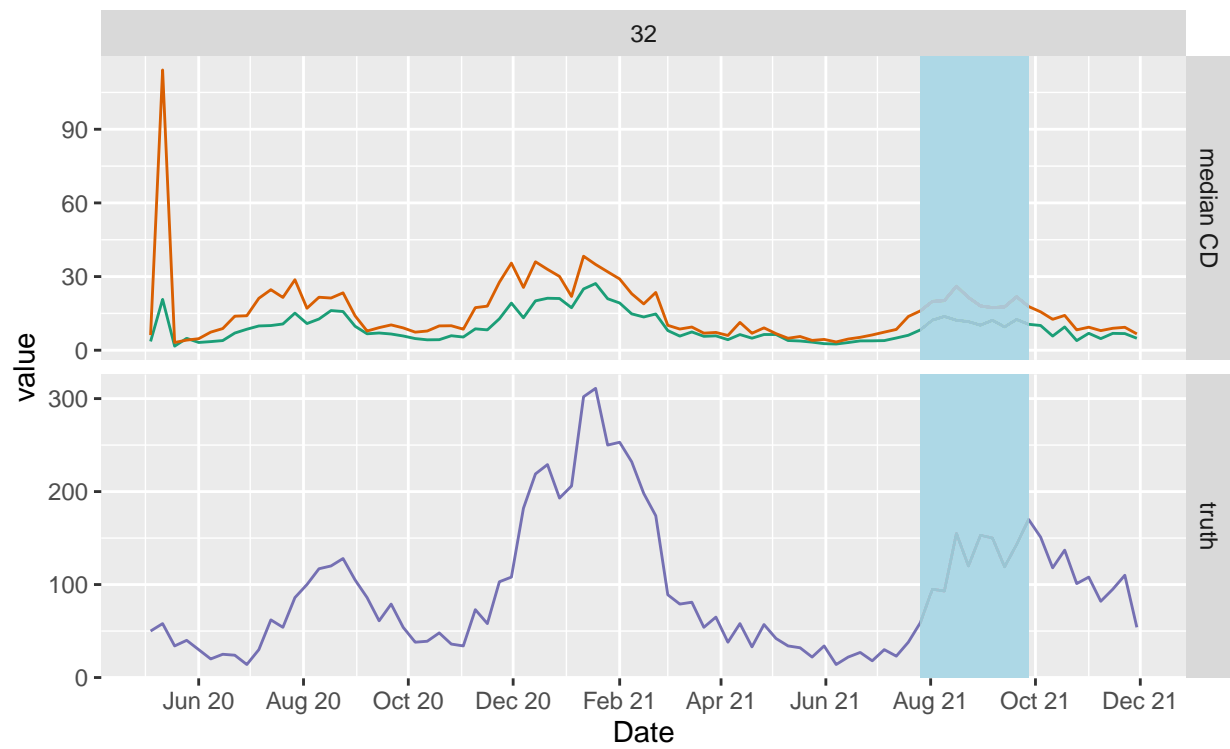


2 wk ahead – 28

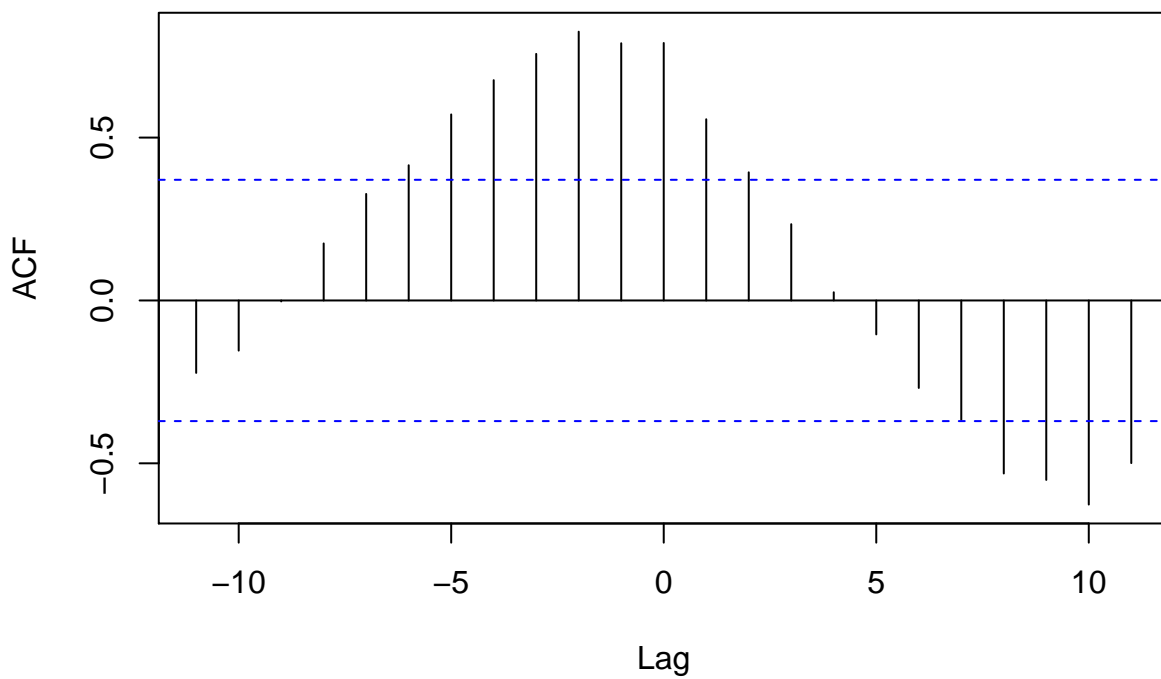


4 wk ahead – 28

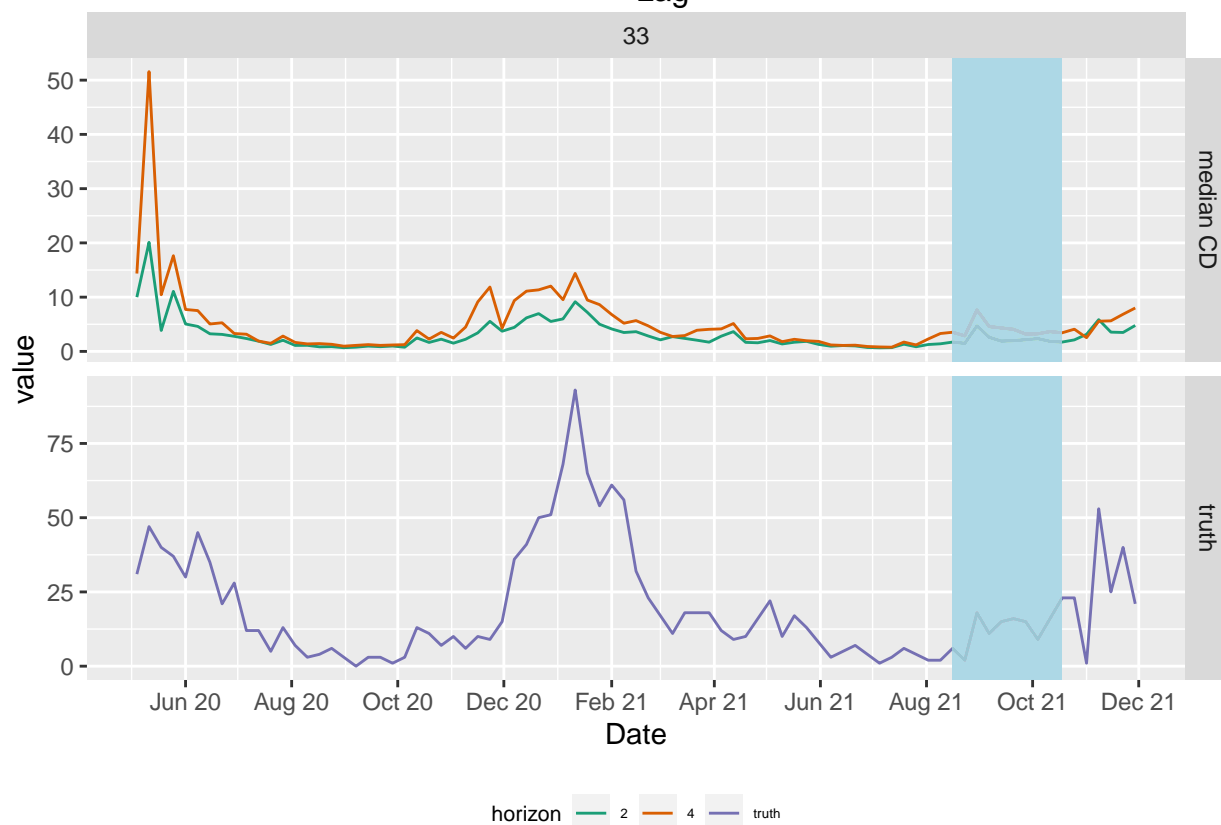
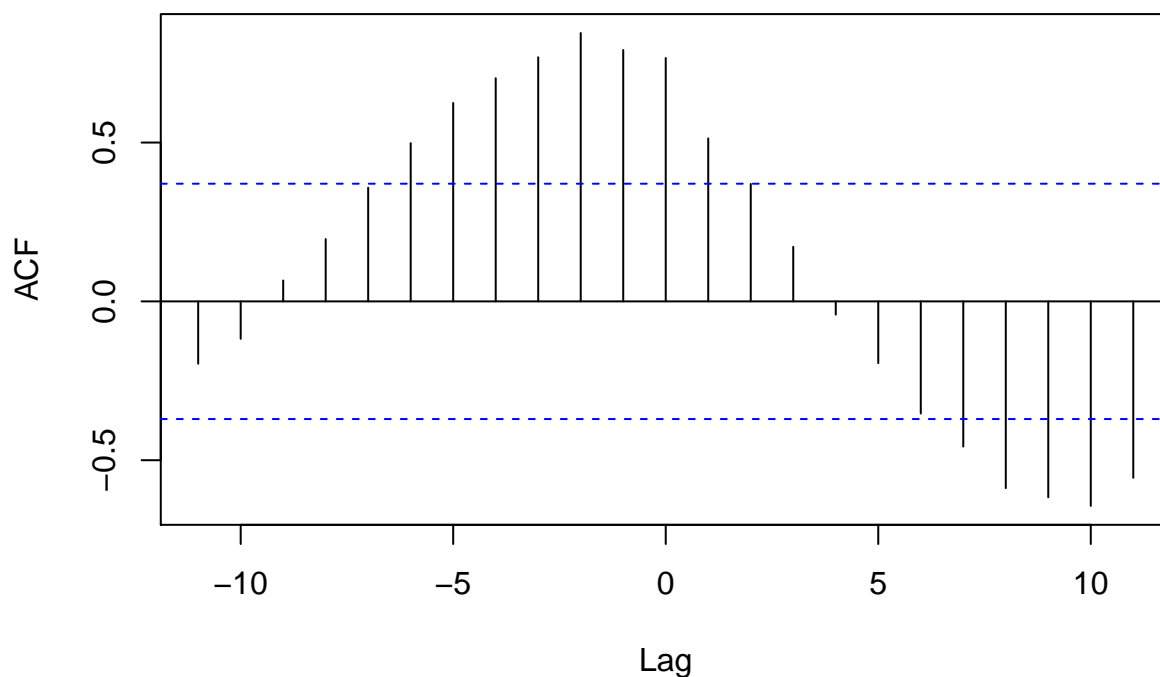




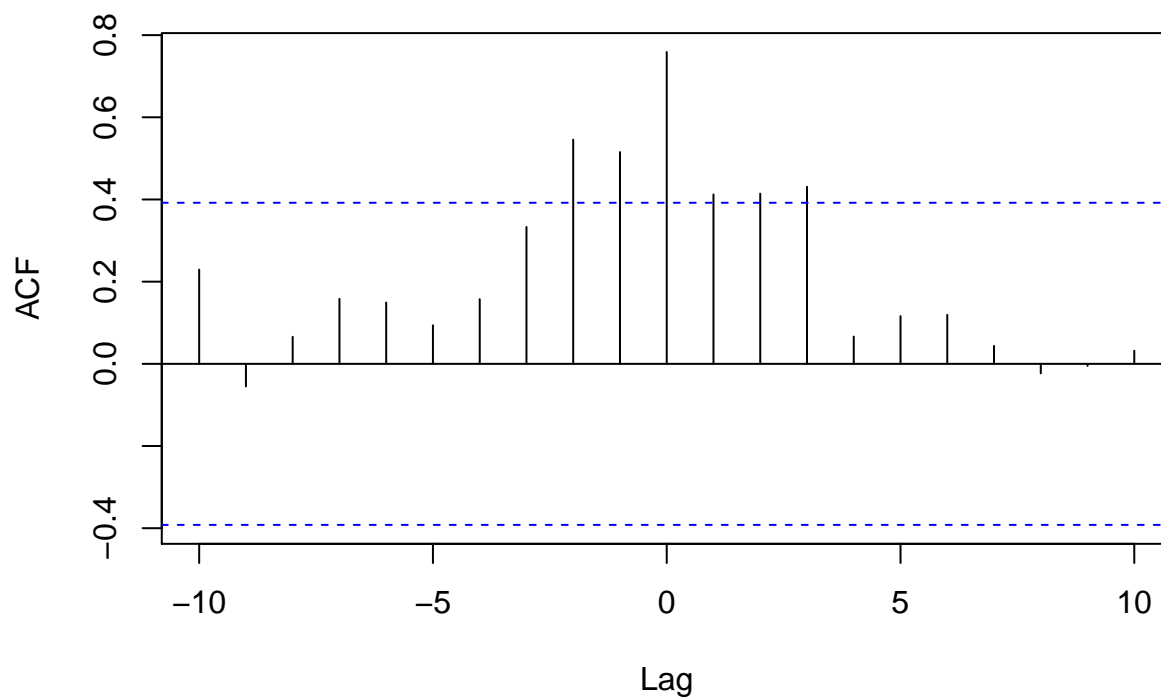
2 wk ahead – 32



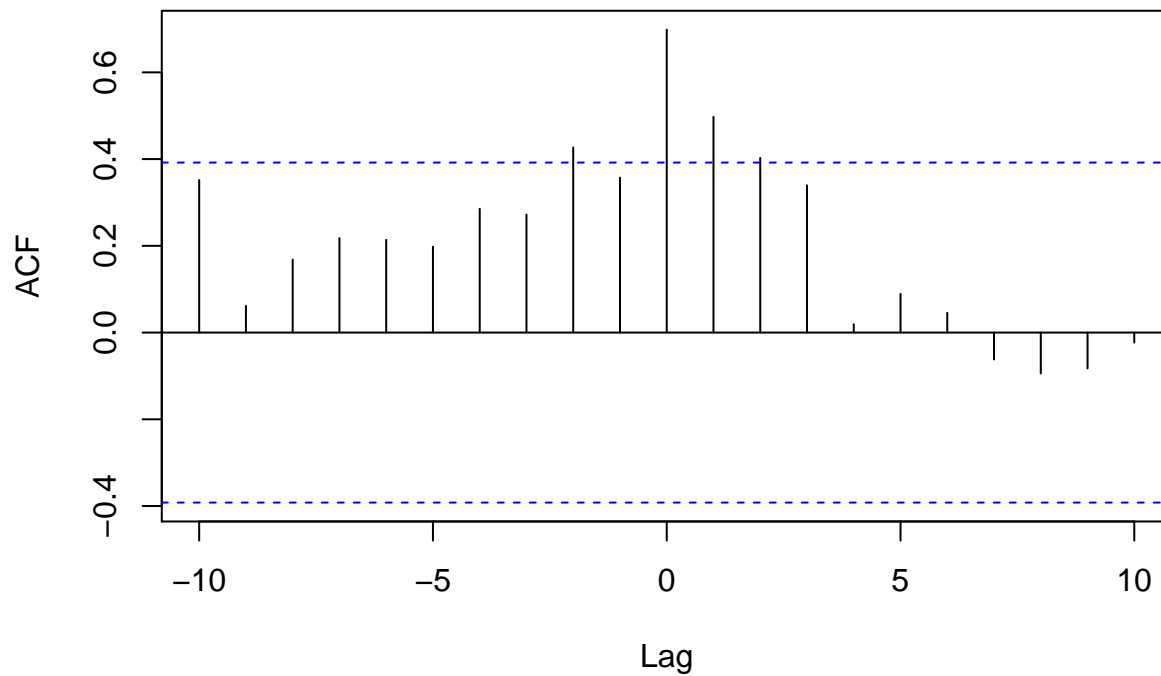
4 wk ahead – 32

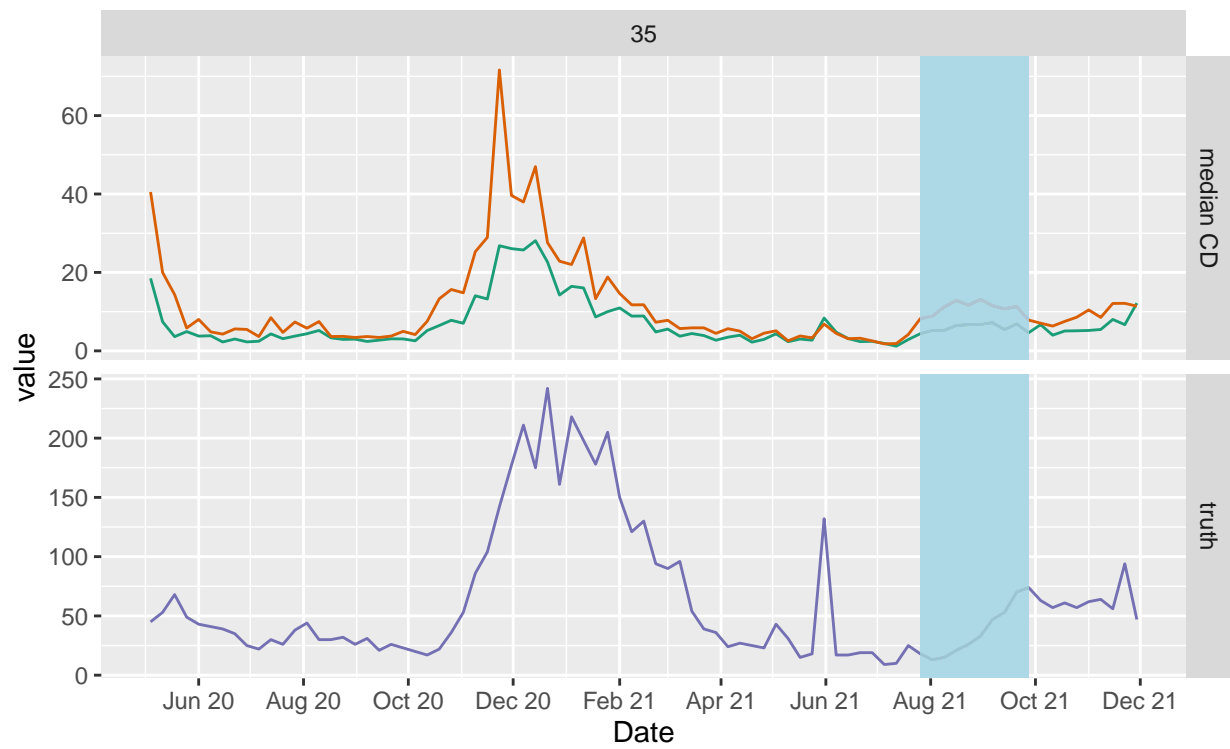


2 wk ahead – 33



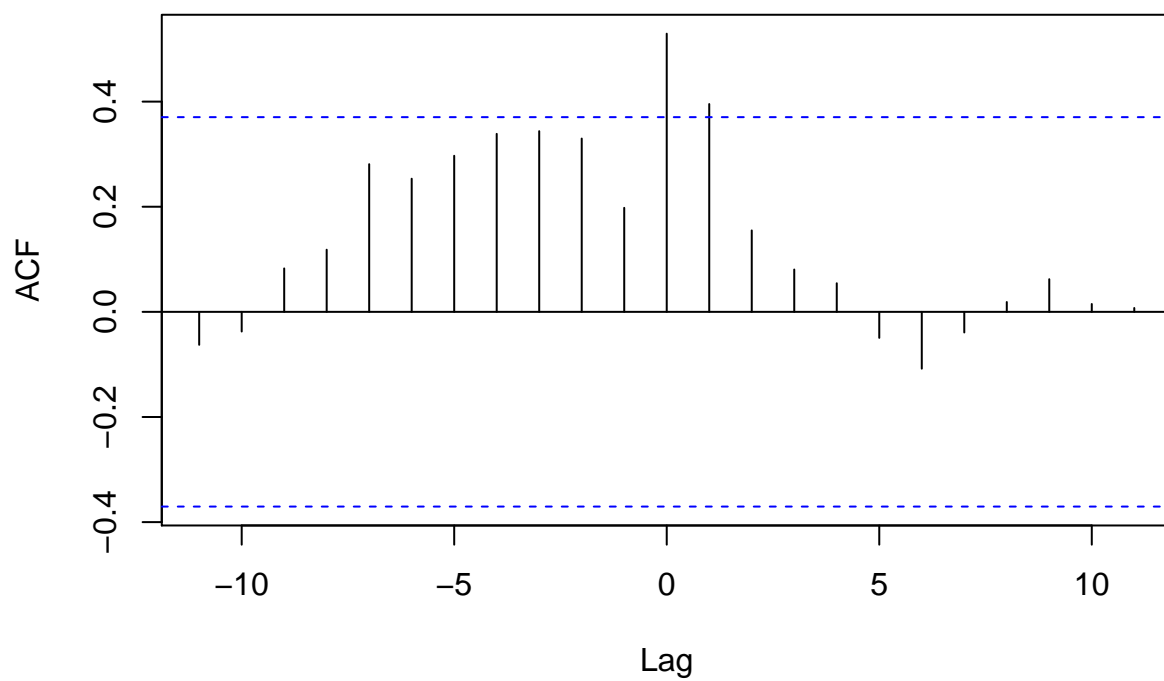
4 wk ahead – 33



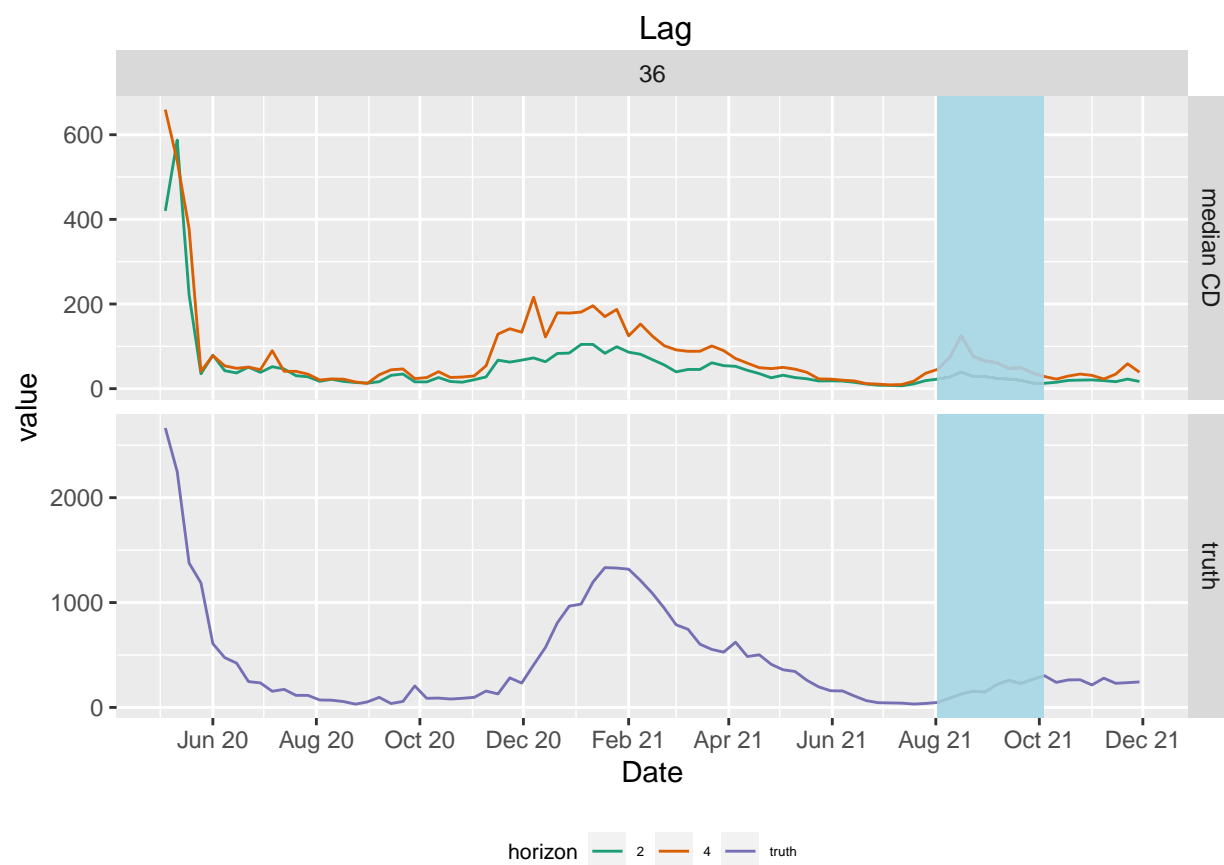
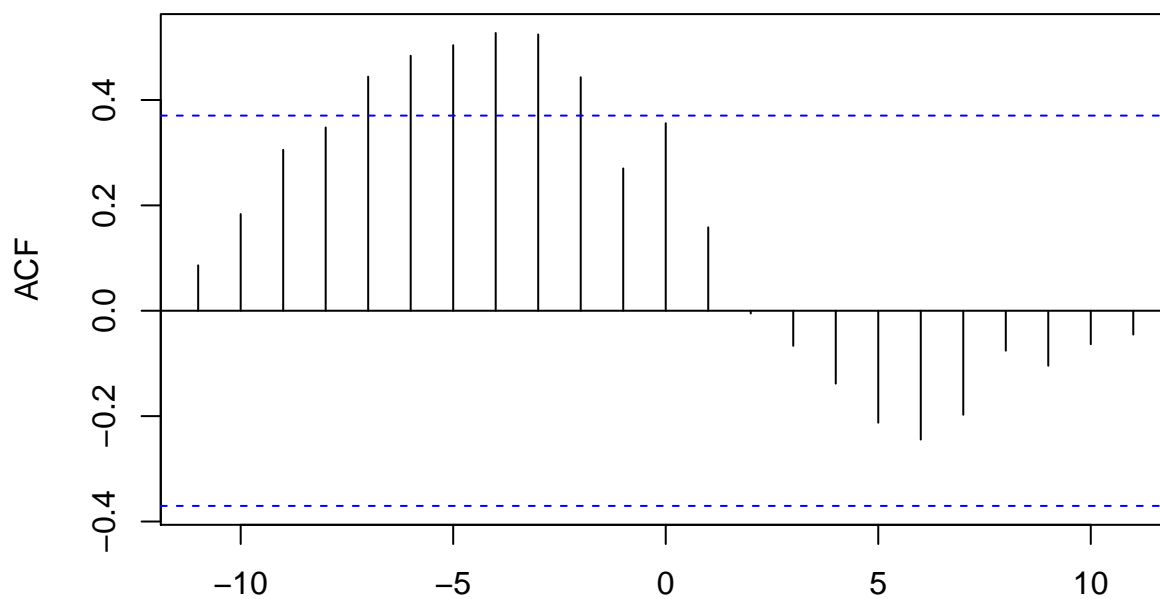


horizon 2 4 truth

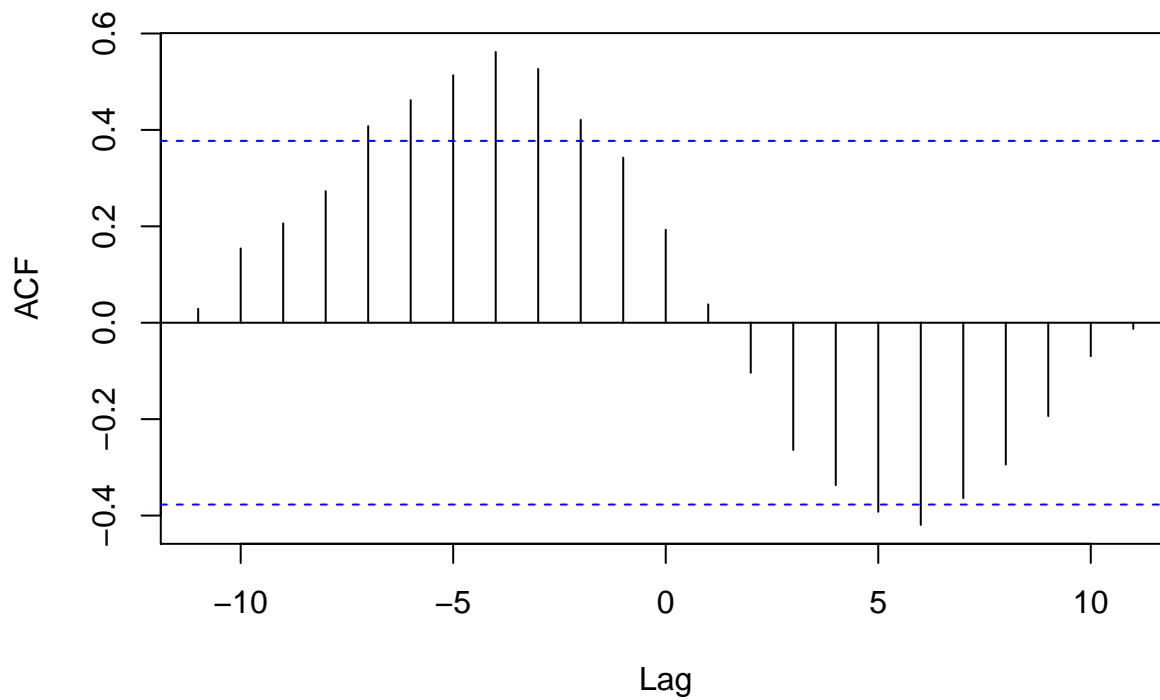
2 wk ahead – 35



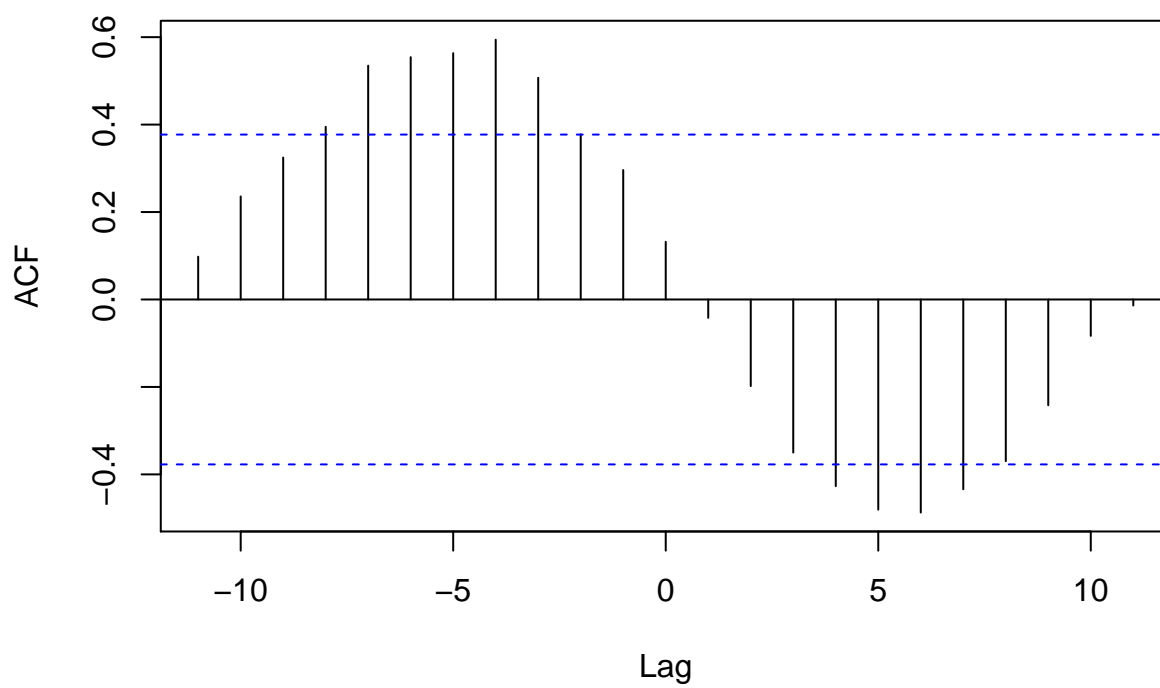
4 wk ahead – 35

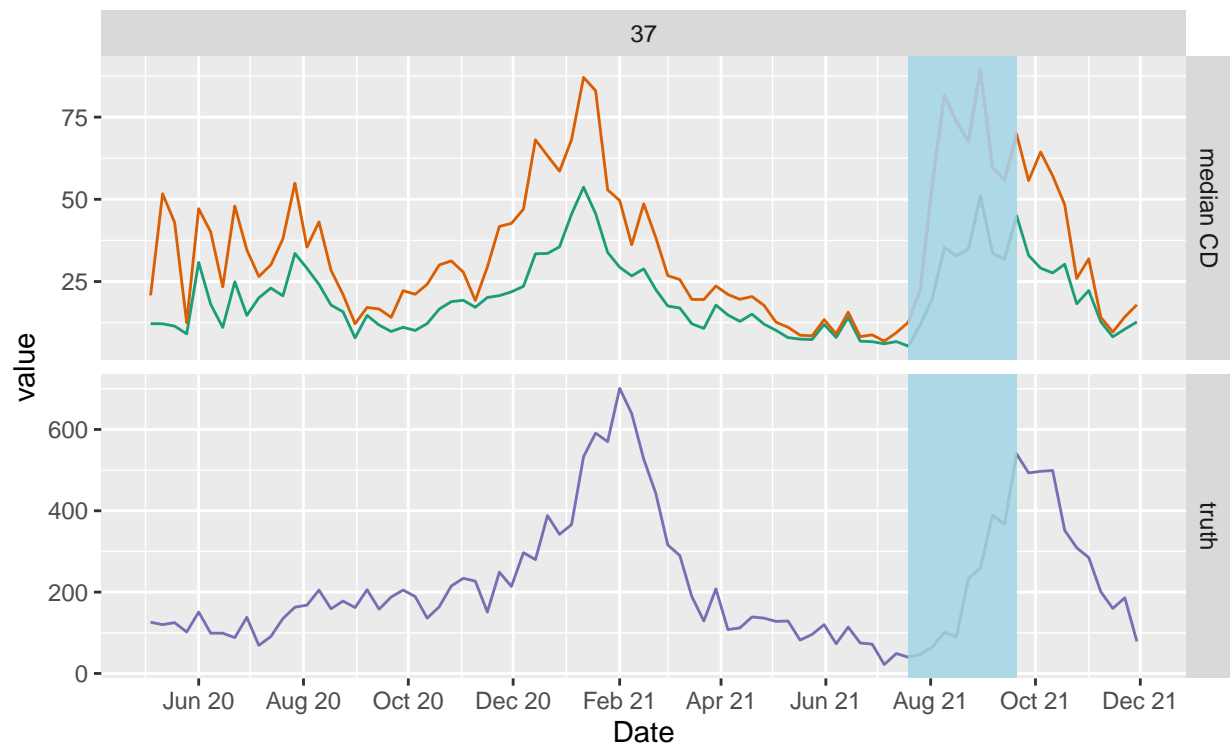


2 wk ahead – 36



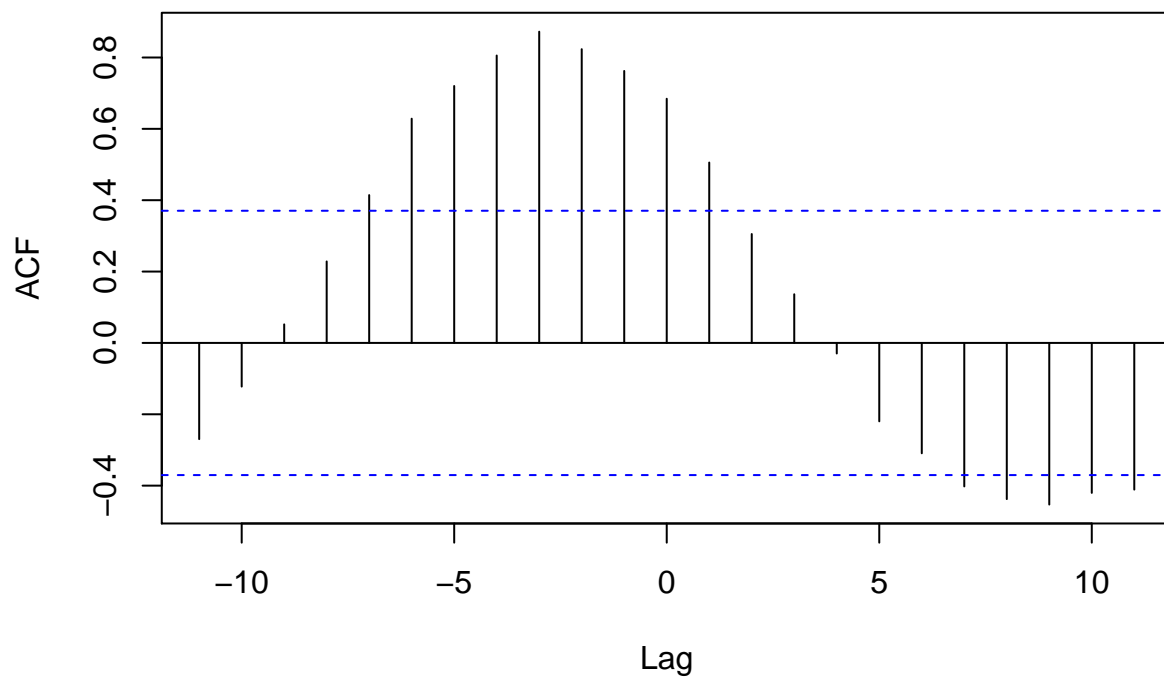
4 wk ahead – 36



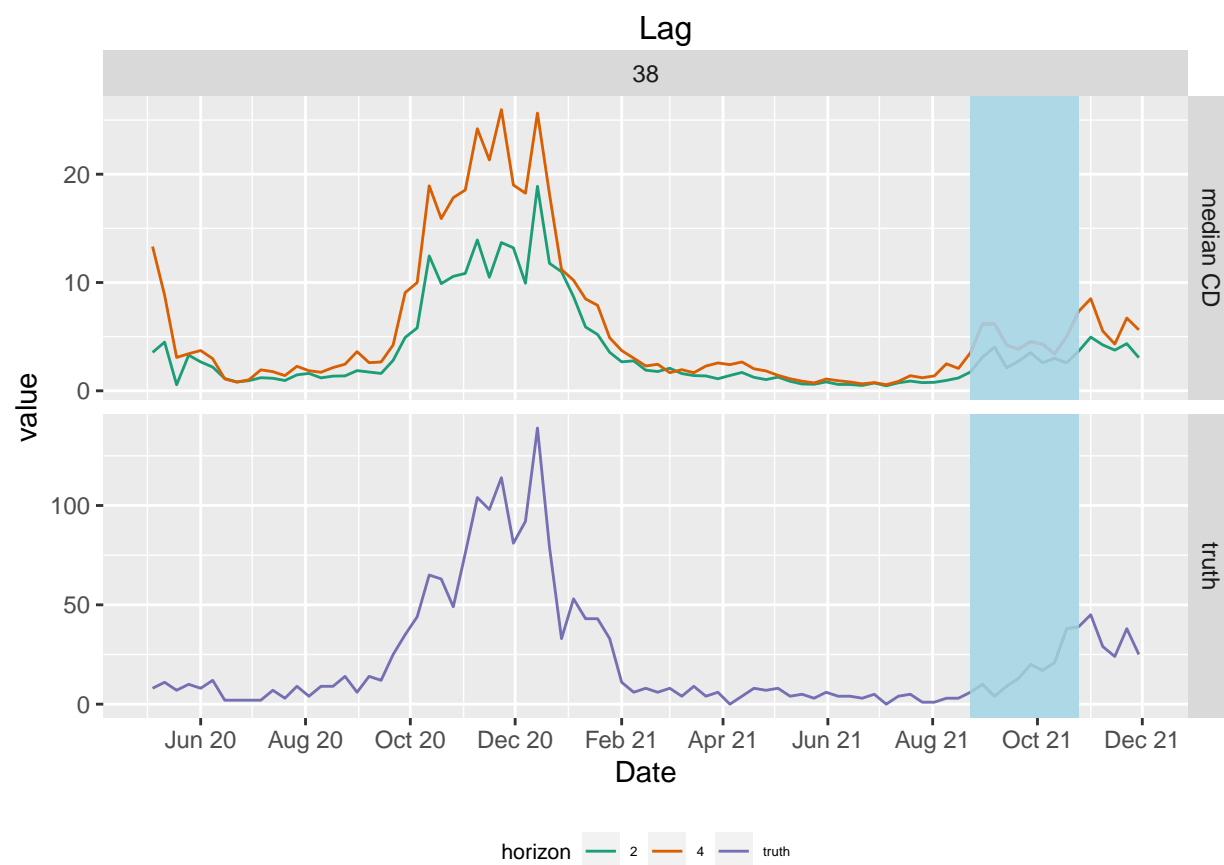
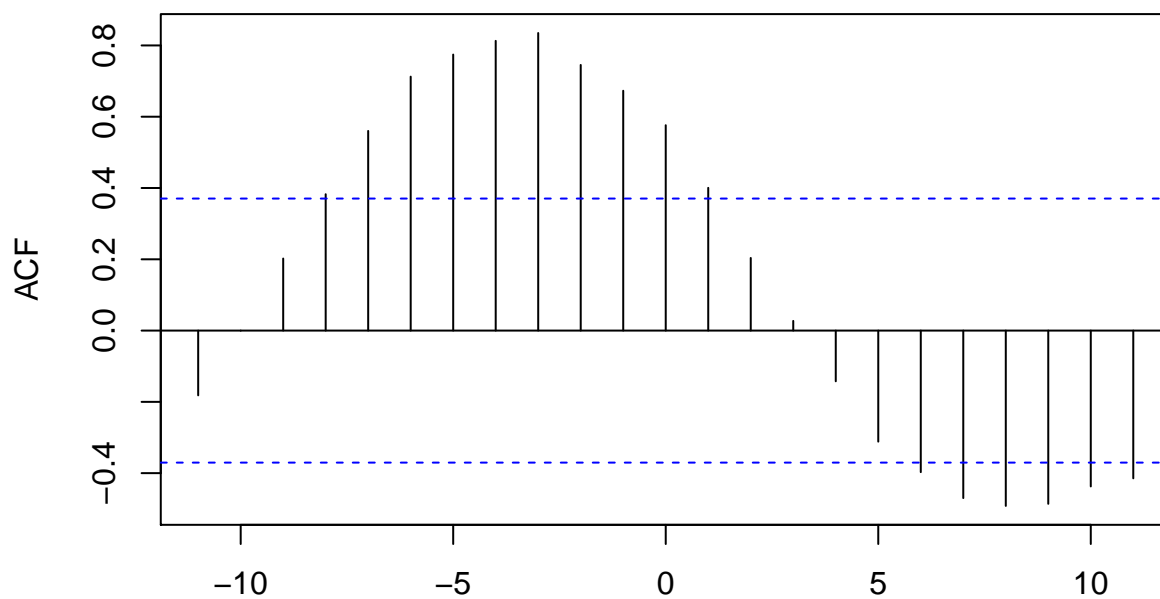


horizon 2 4 truth

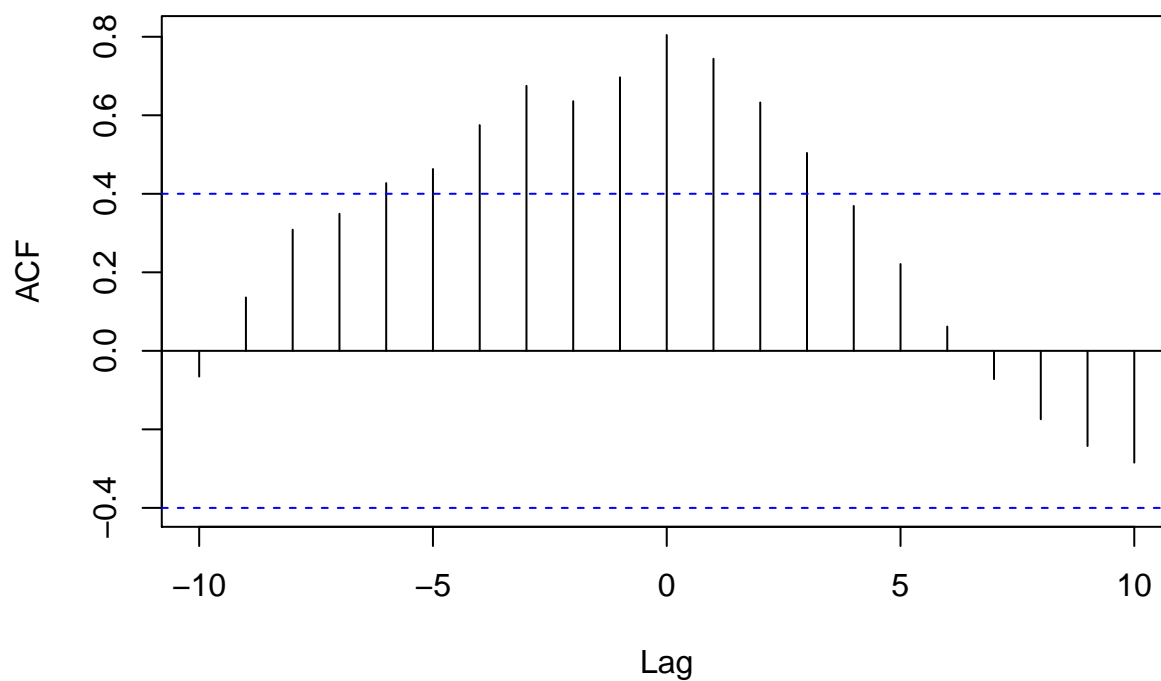
2 wk ahead – 37



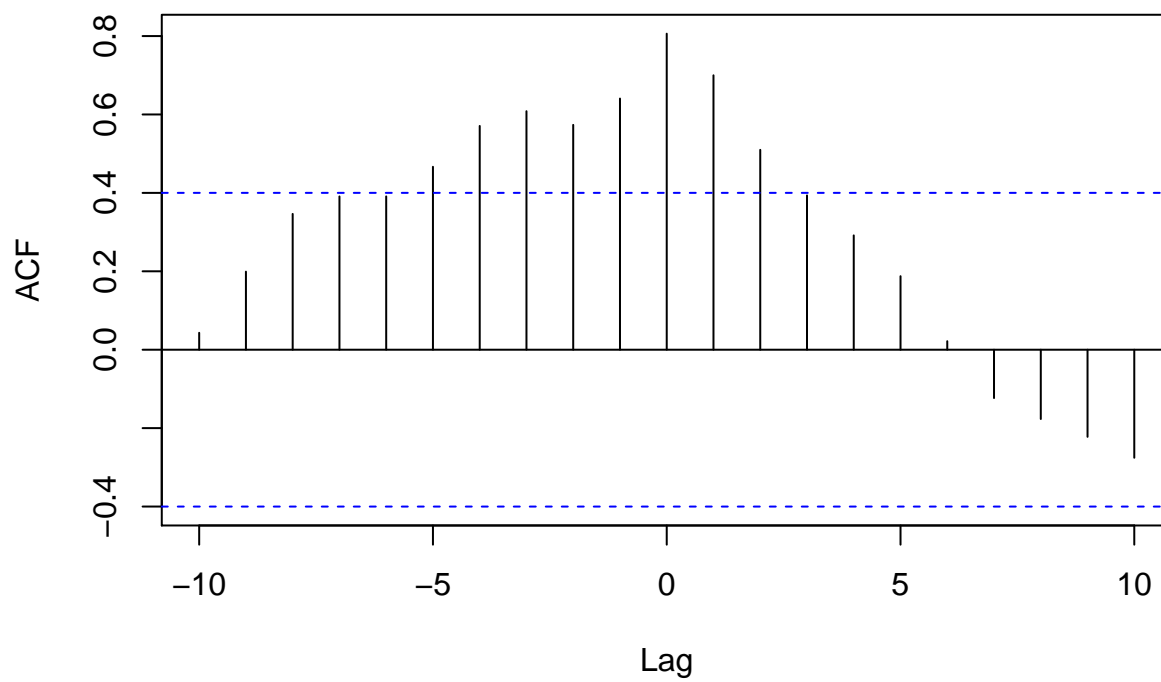
4 wk ahead – 37

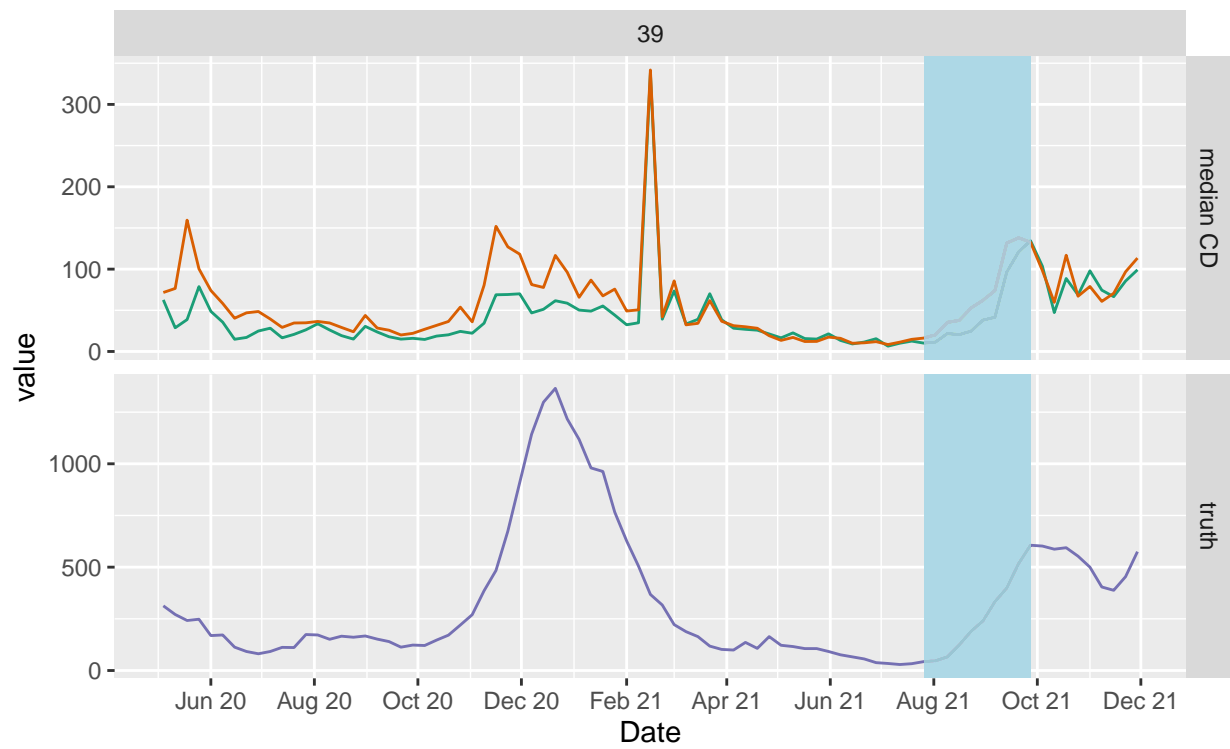


2 wk ahead – 38



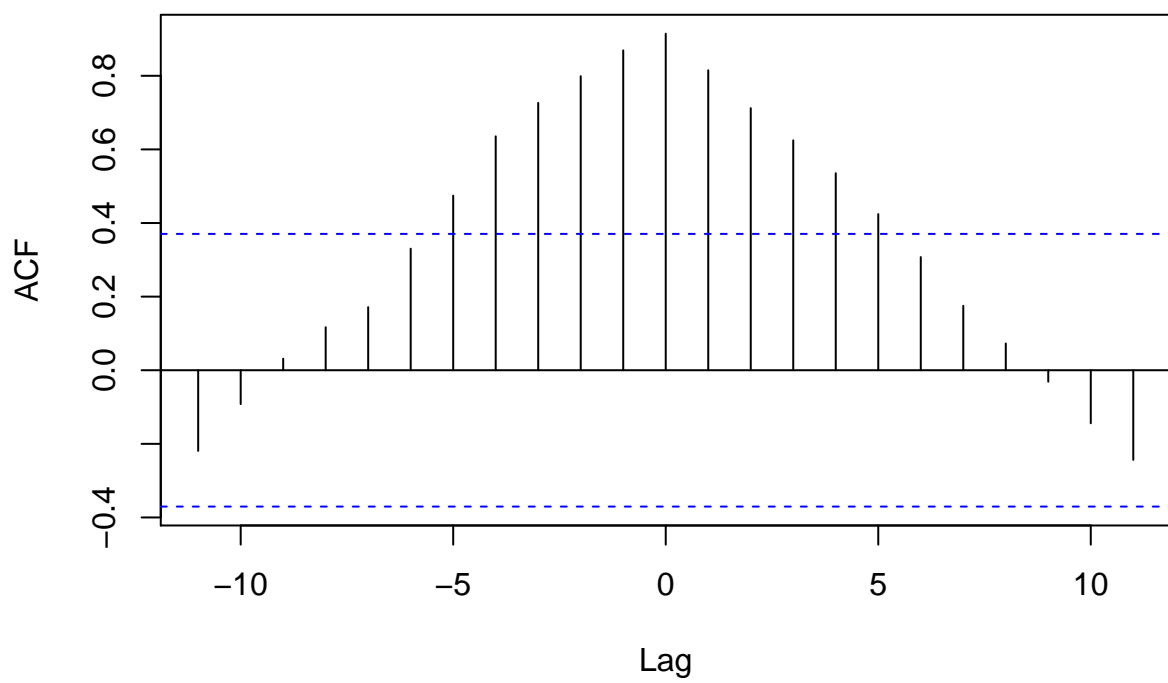
4 wk ahead – 38



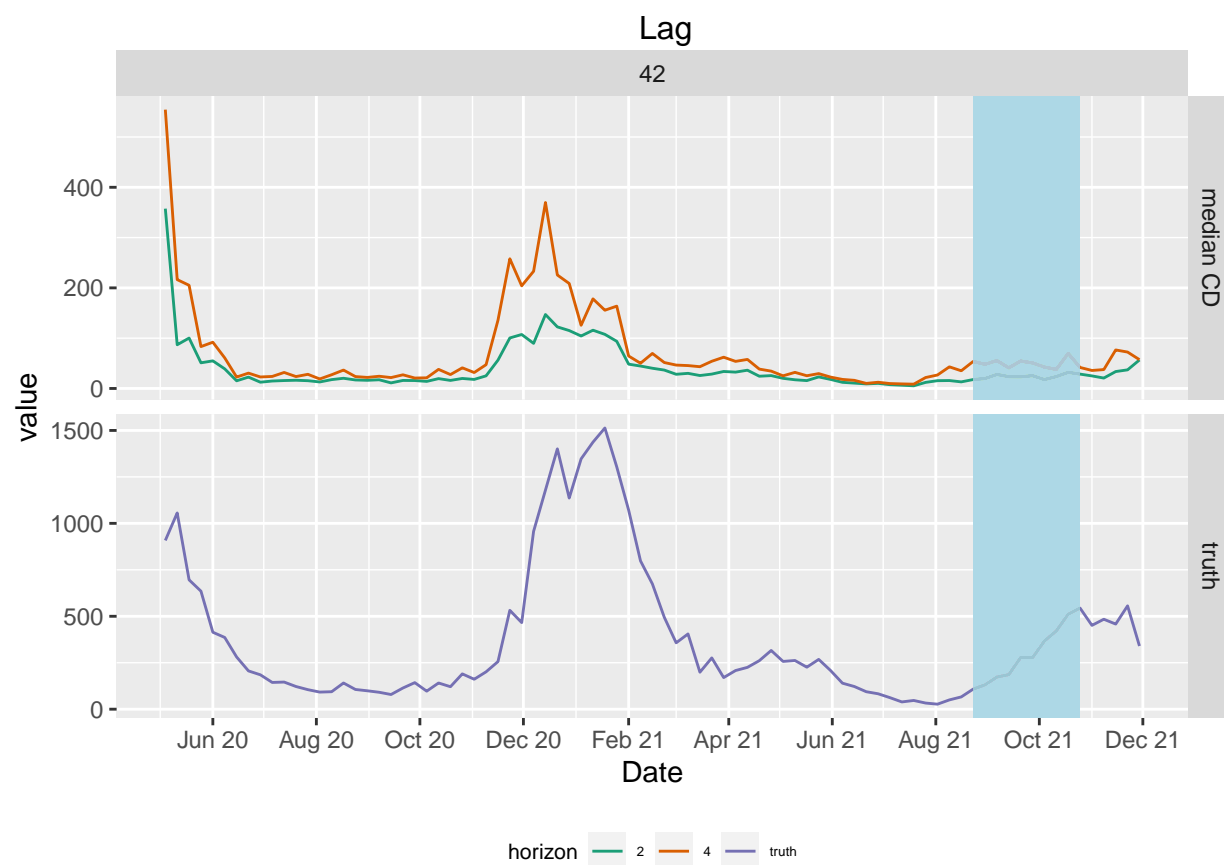
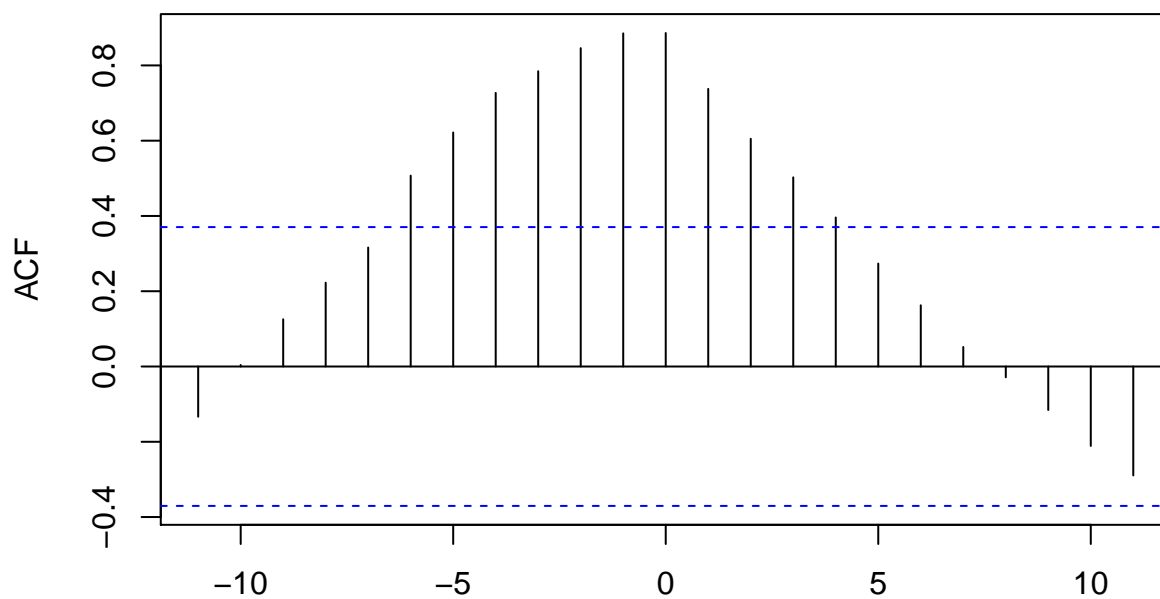


horizon 2 4 truth

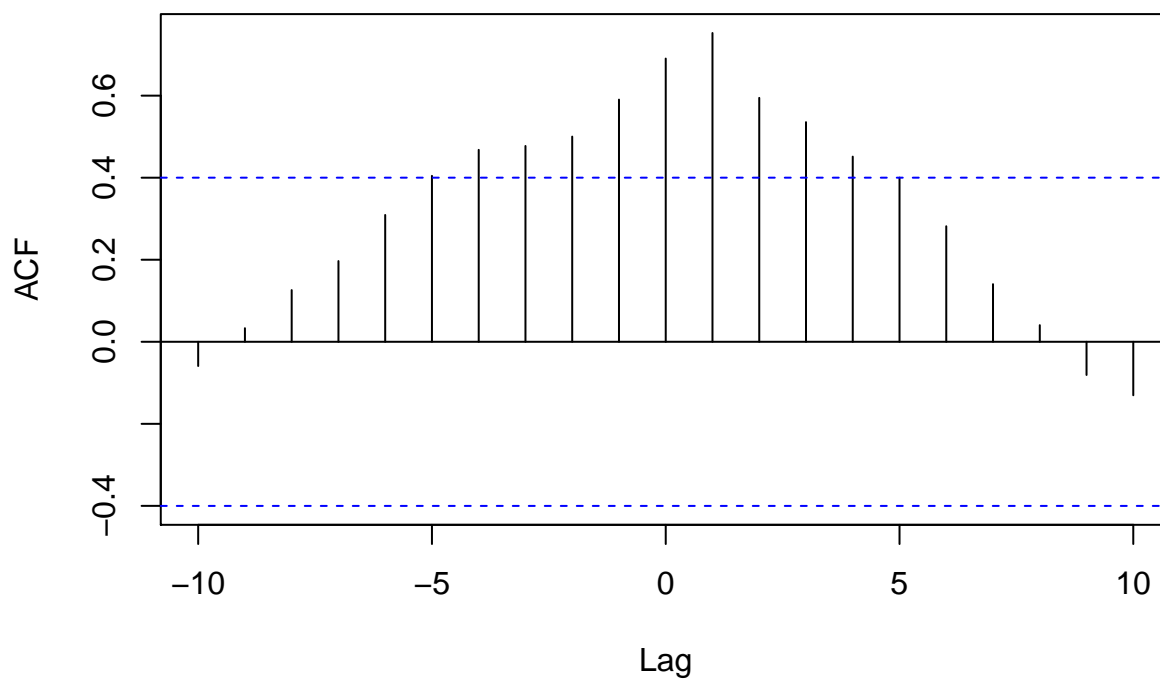
2 wk ahead – 39



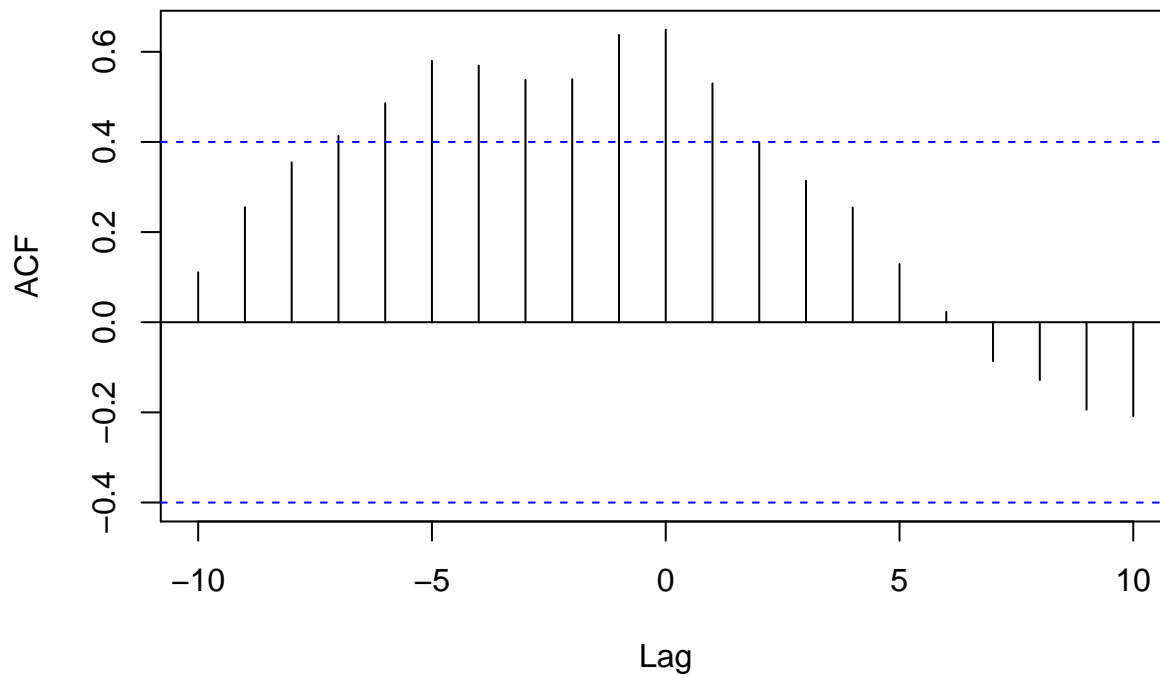
4 wk ahead – 39

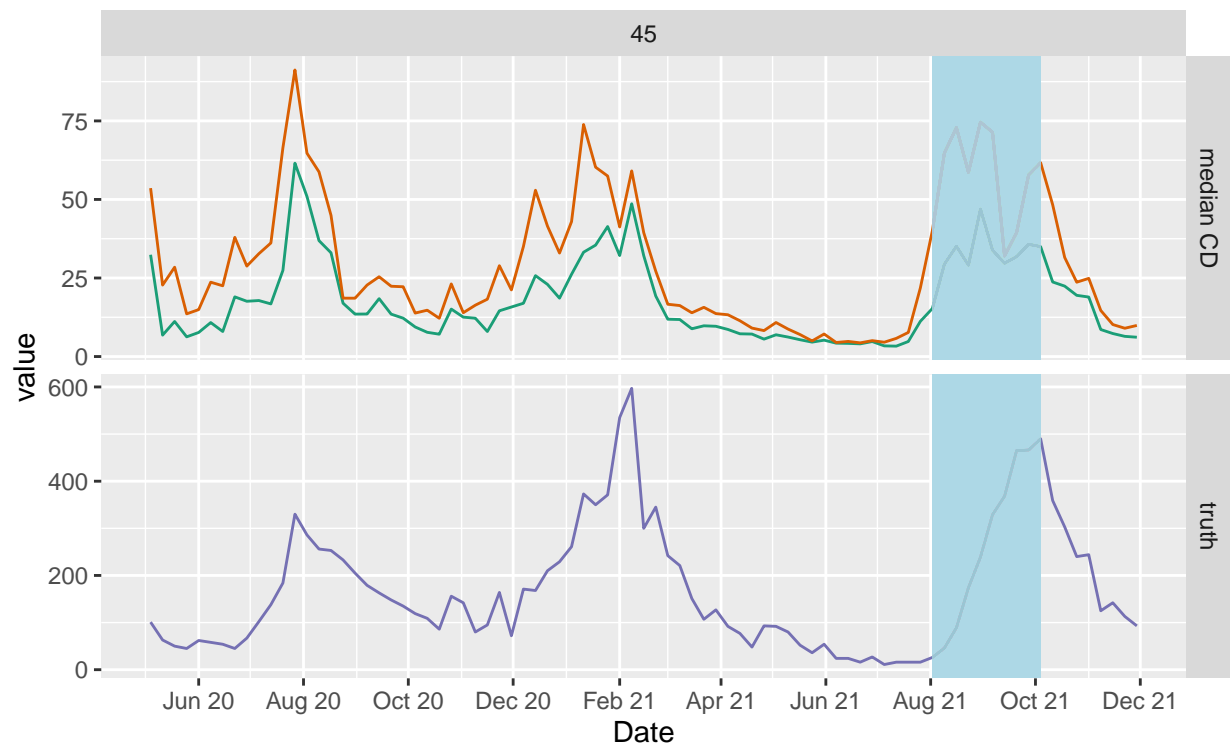


2 wk ahead – 42



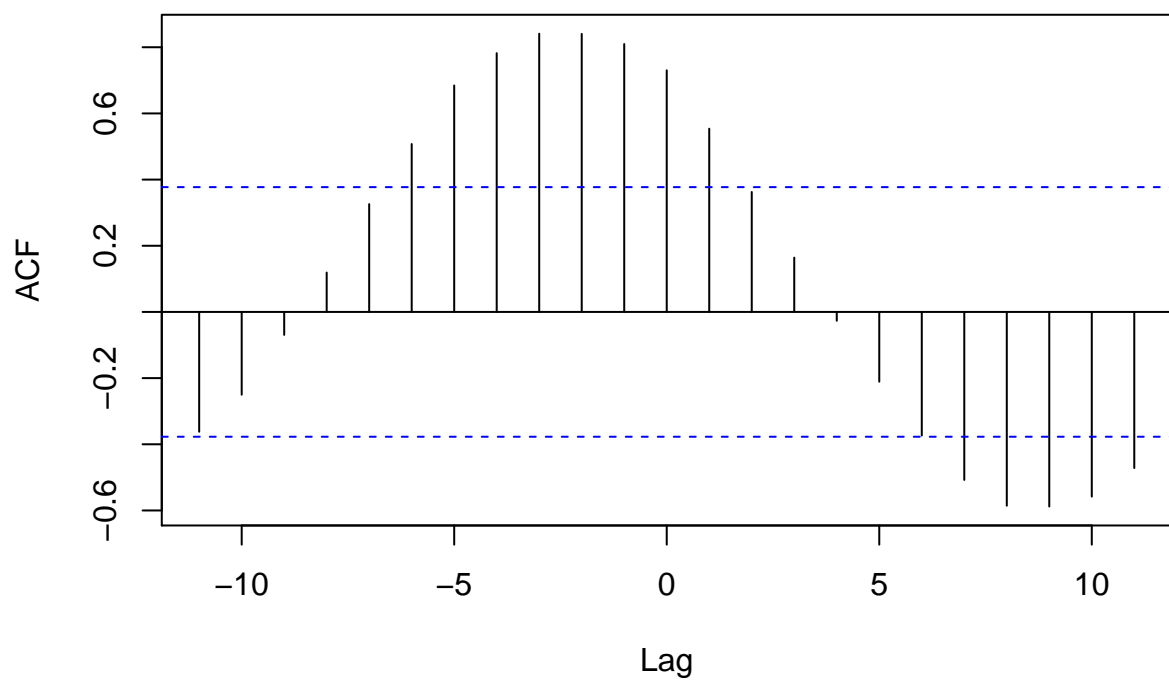
4 wk ahead – 42



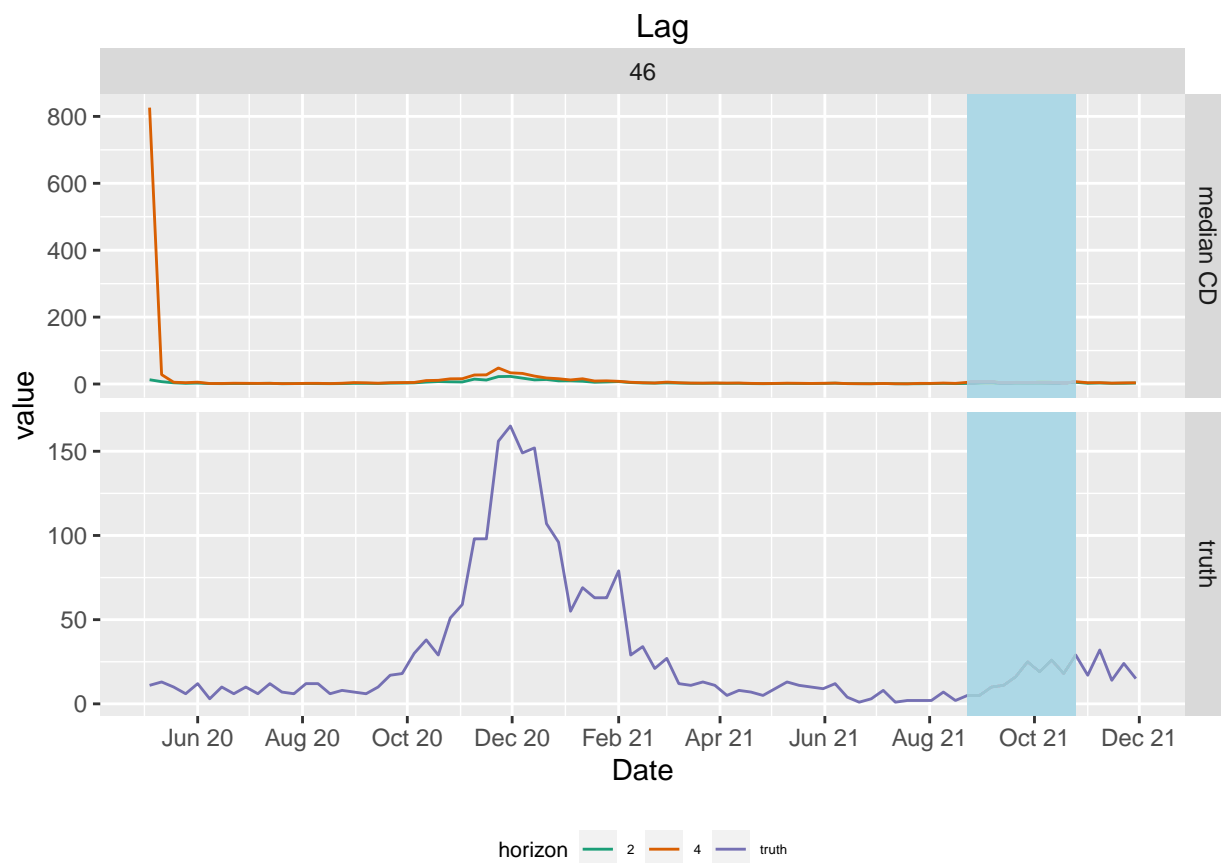
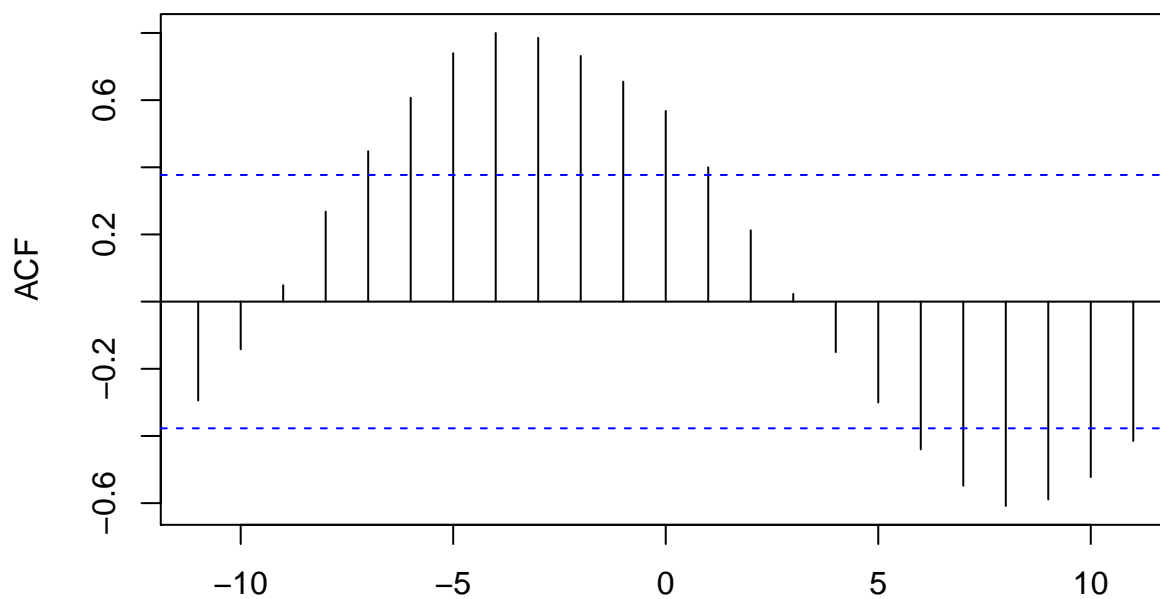


horizon 2 4 truth

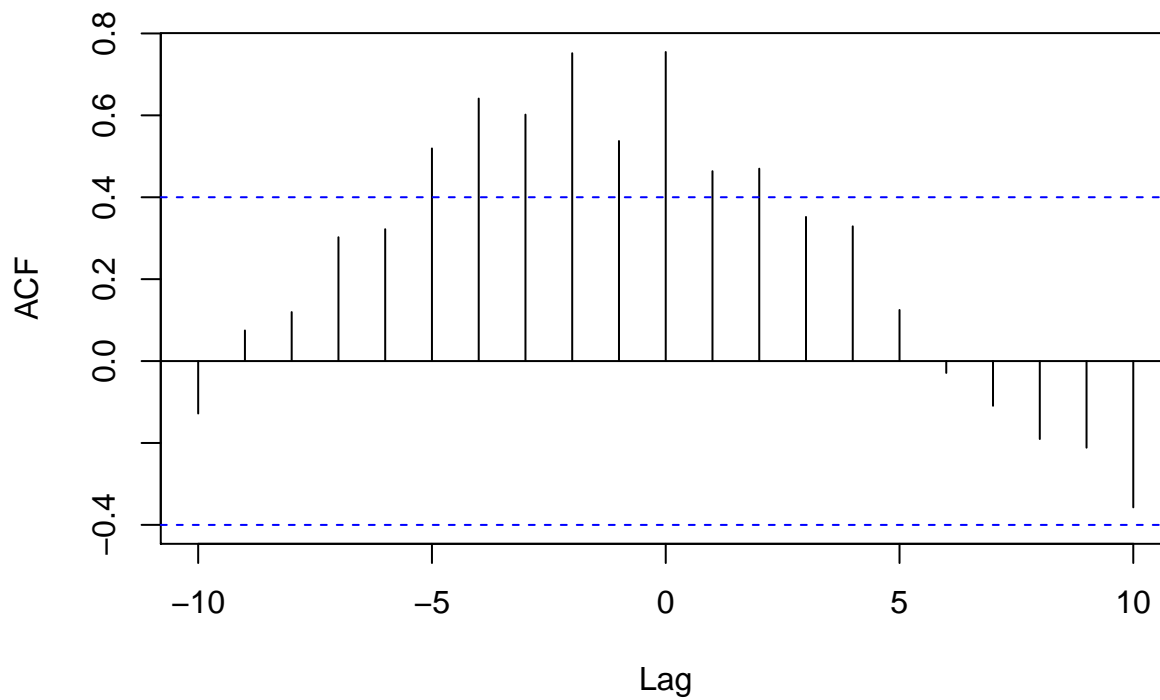
2 wk ahead – 45



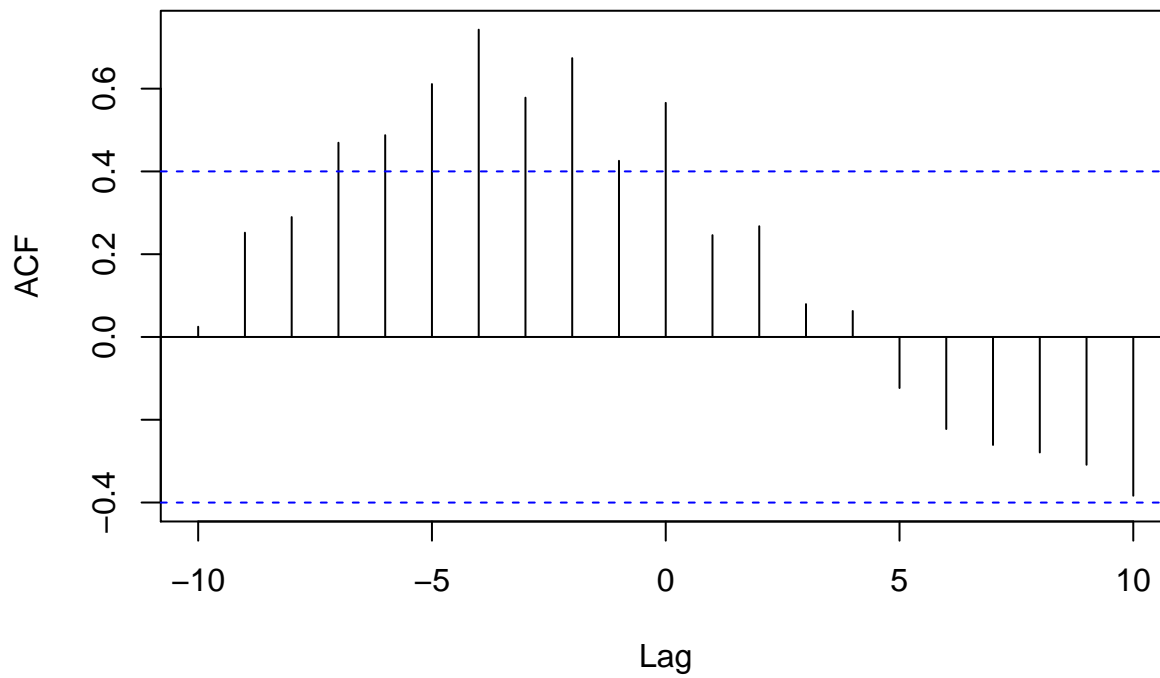
4 wk ahead – 45

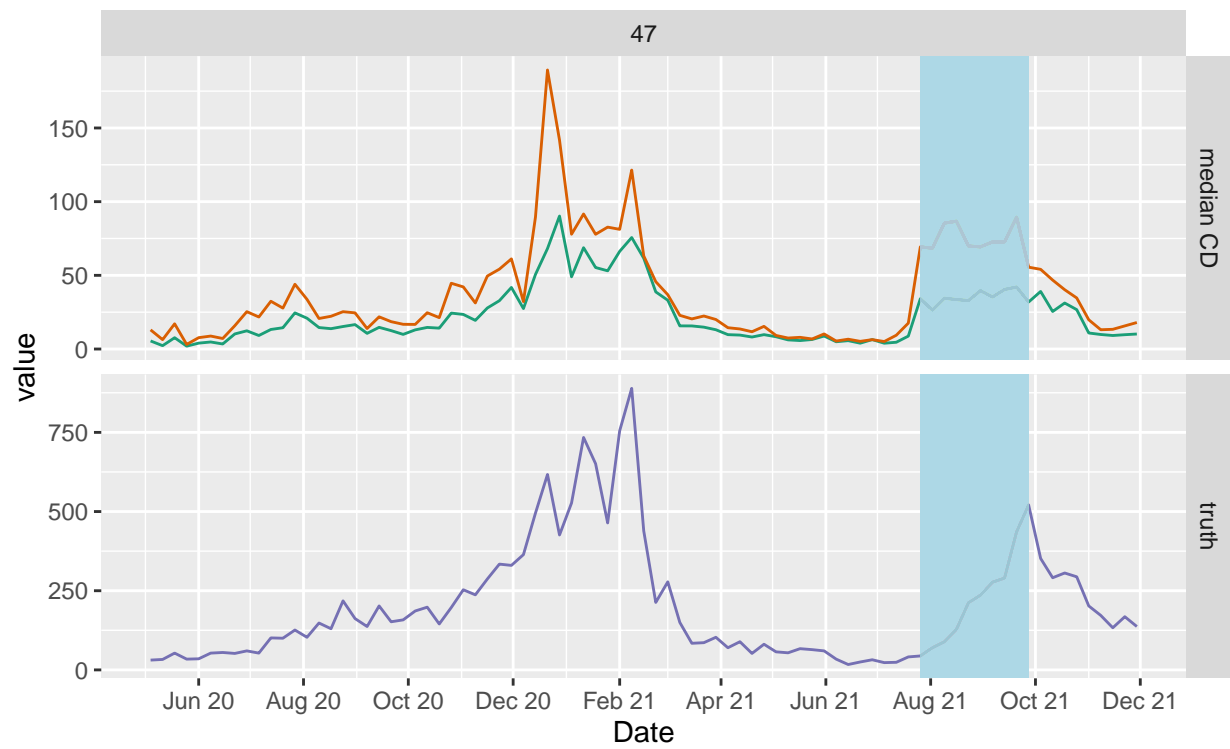


2 wk ahead – 46

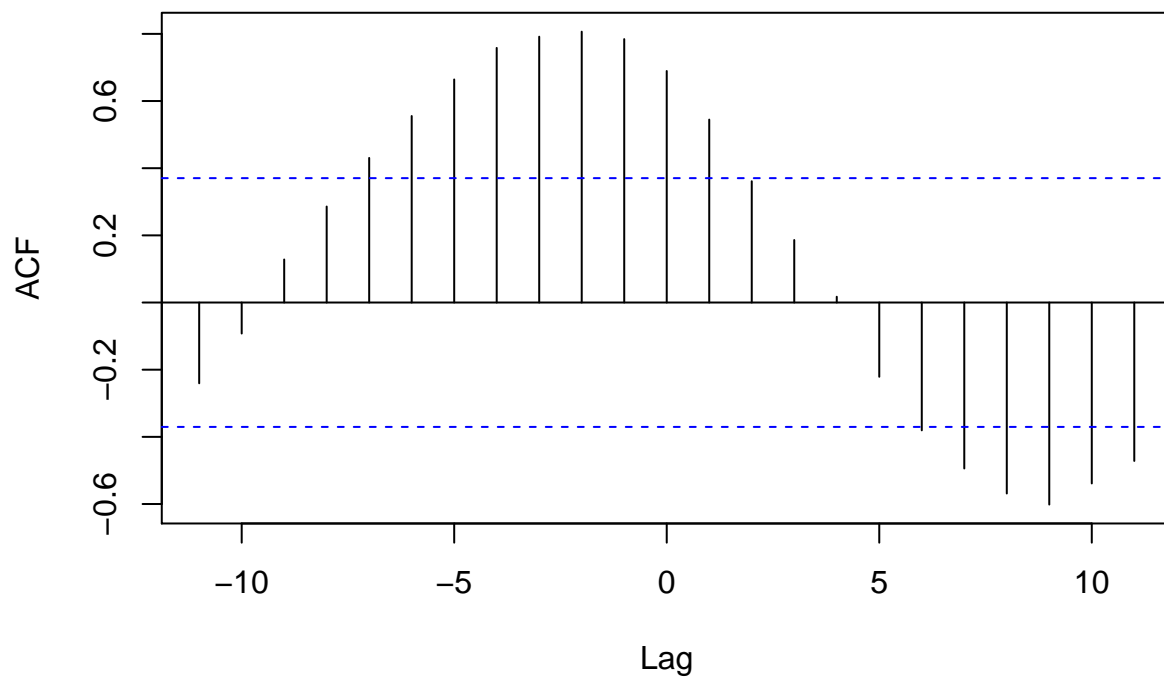


4 wk ahead – 46

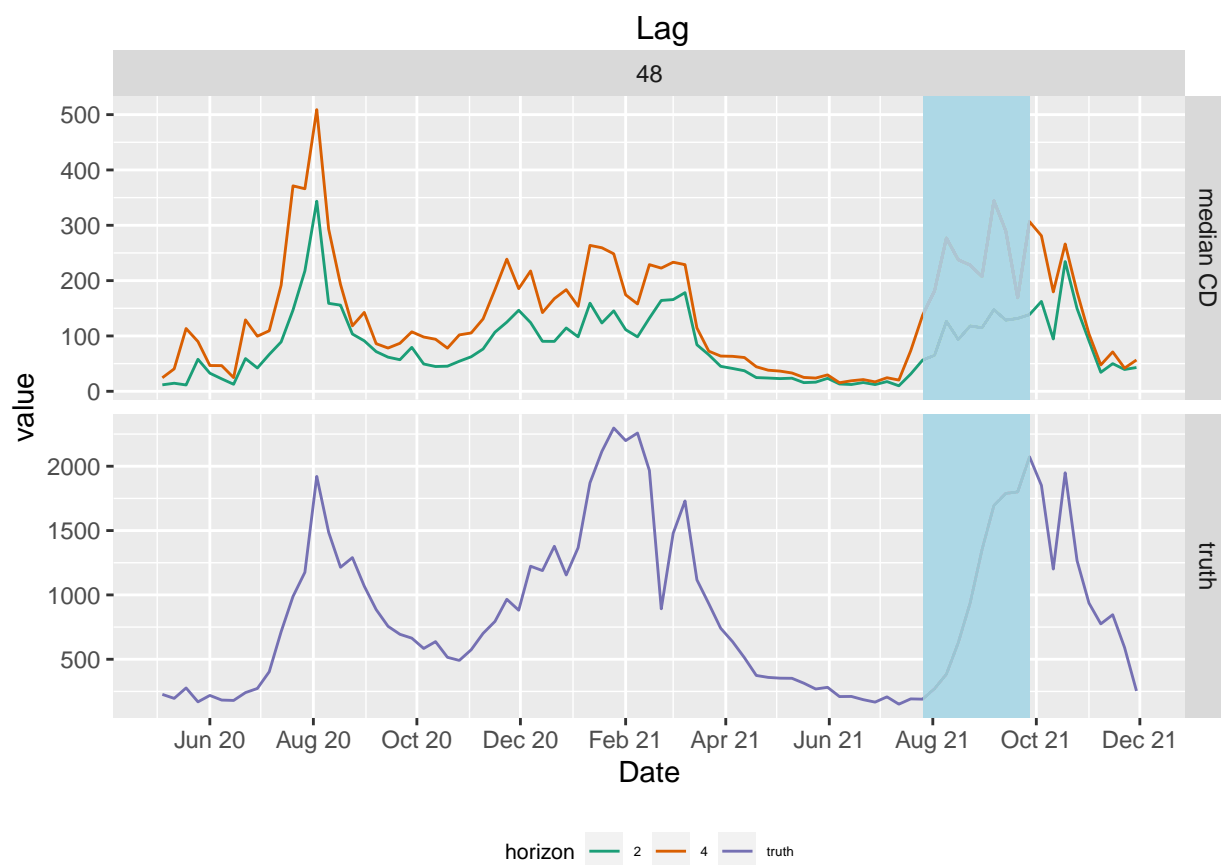
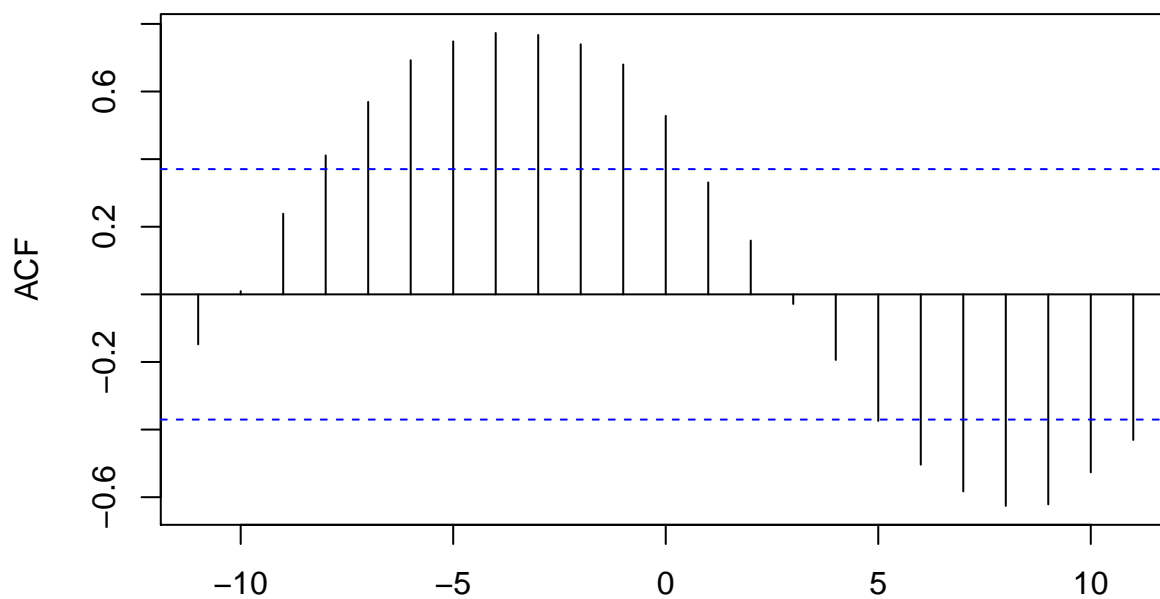




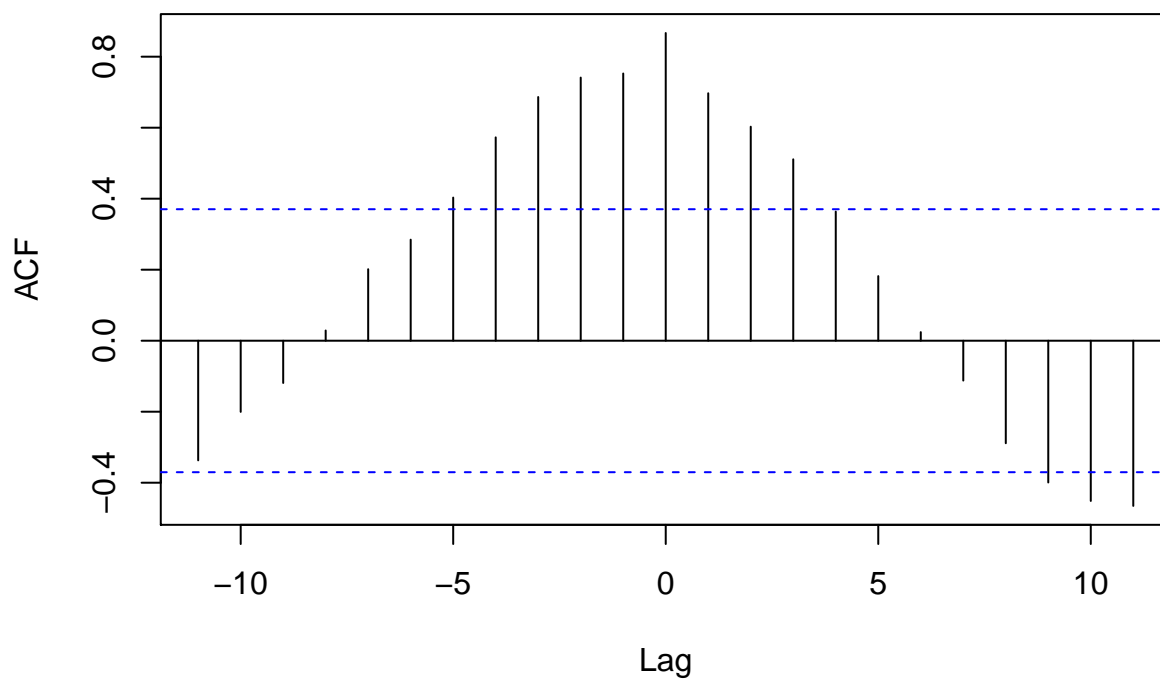
2 wk ahead – 47



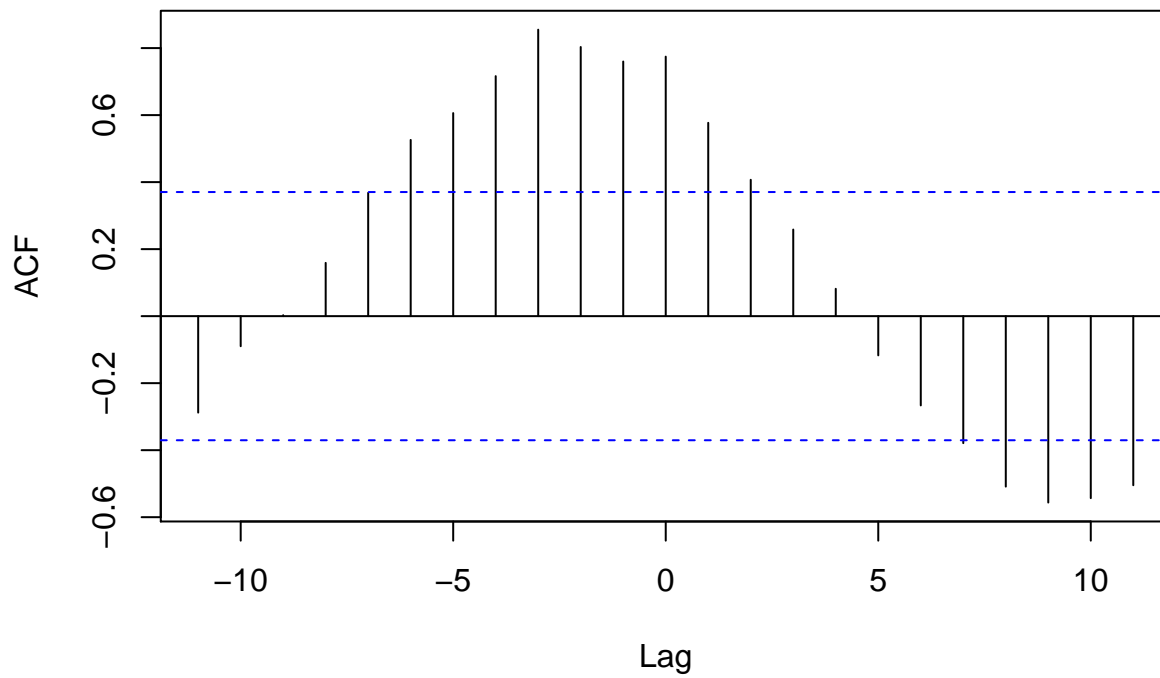
4 wk ahead – 47

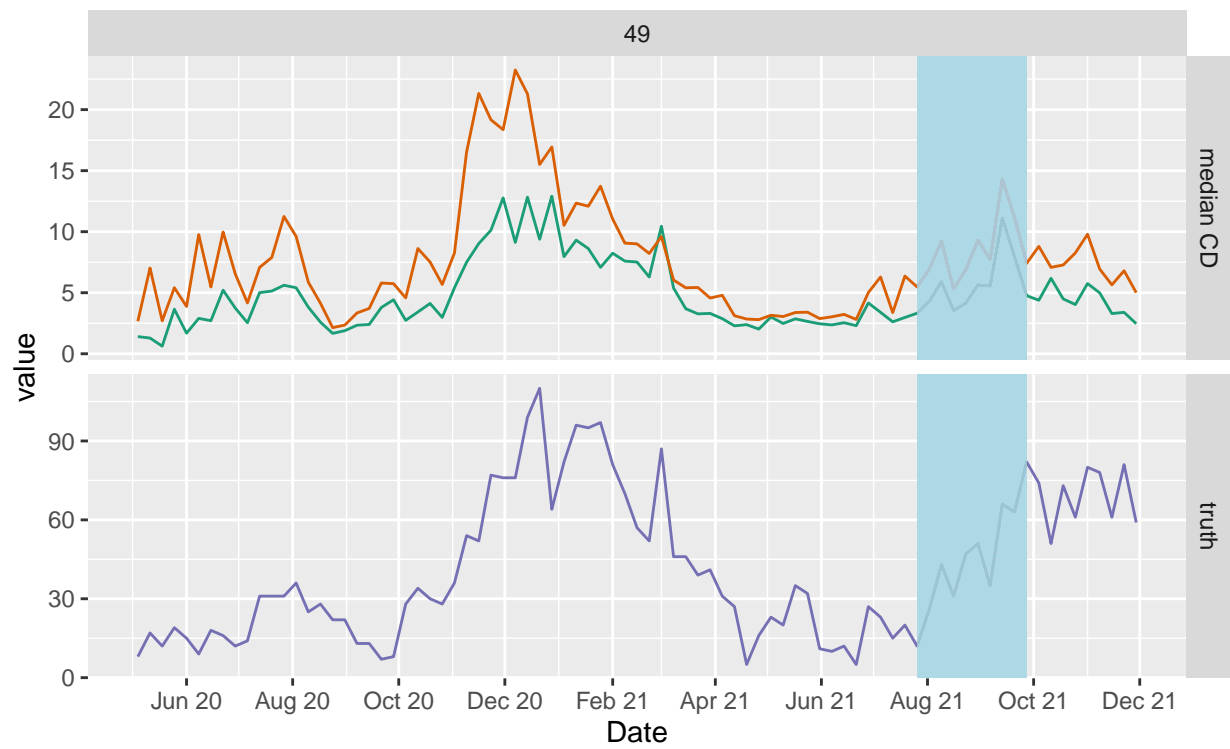


2 wk ahead – 48



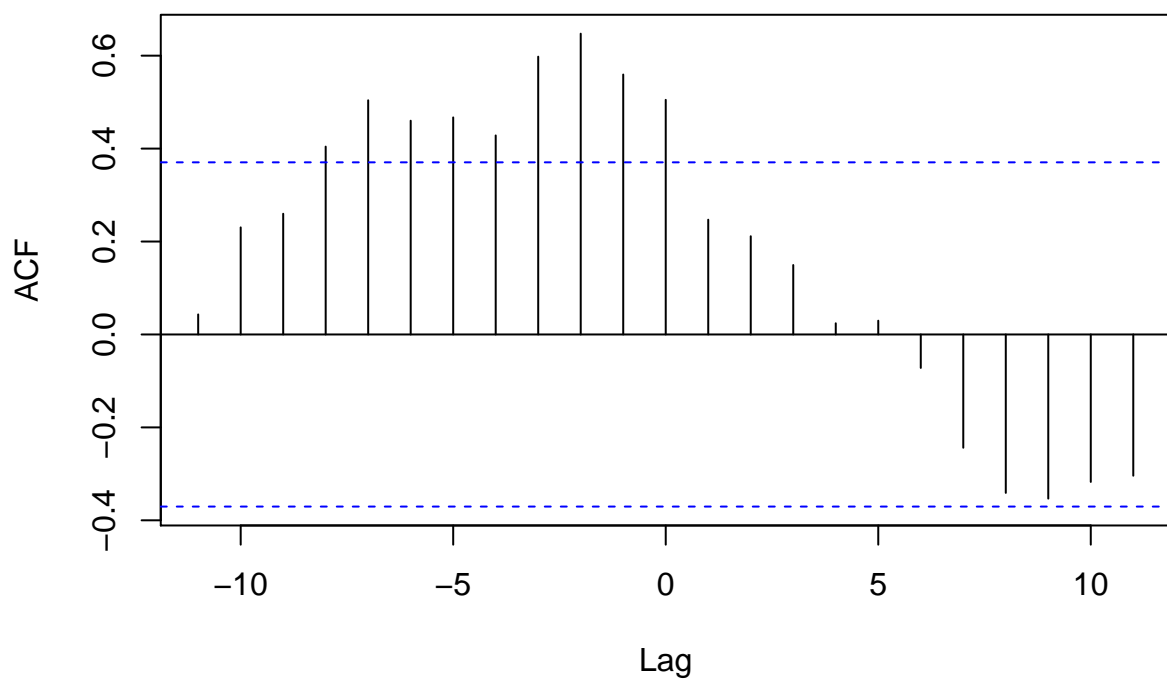
4 wk ahead – 48



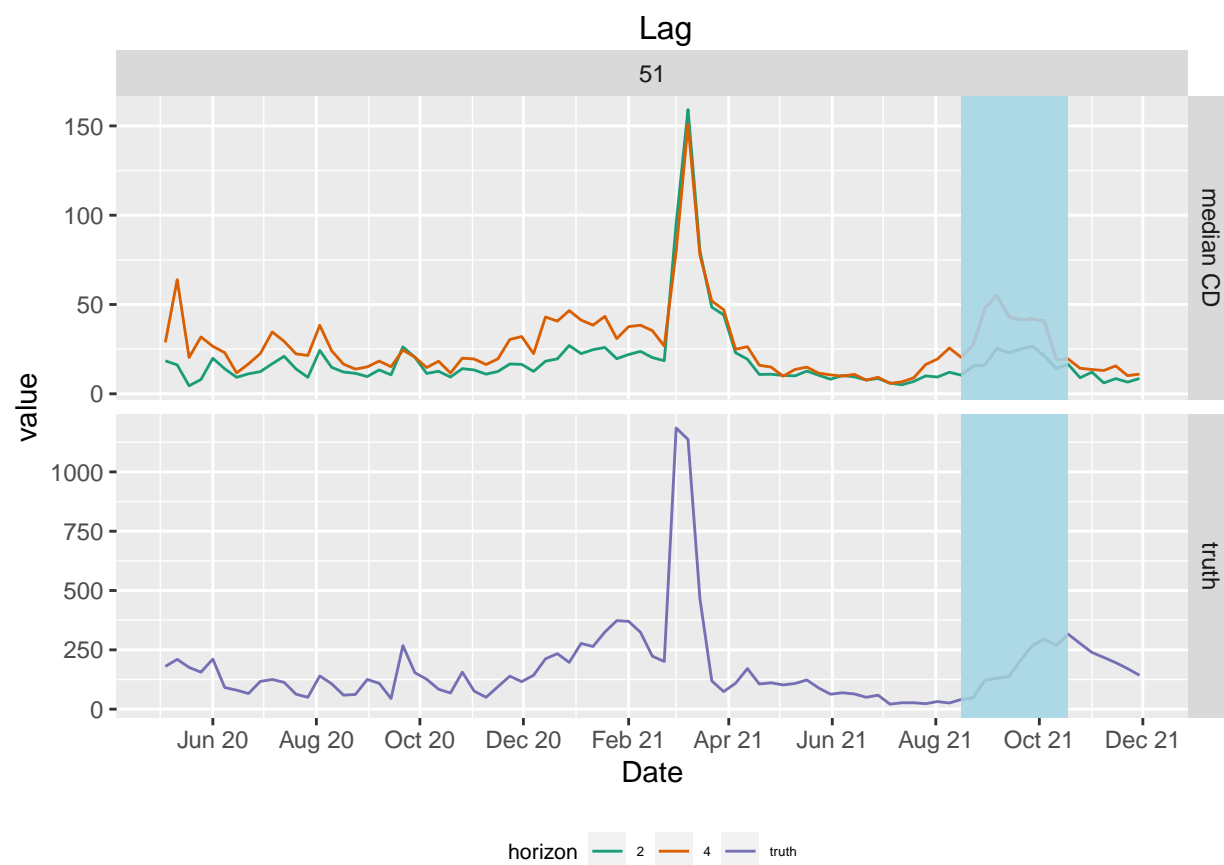
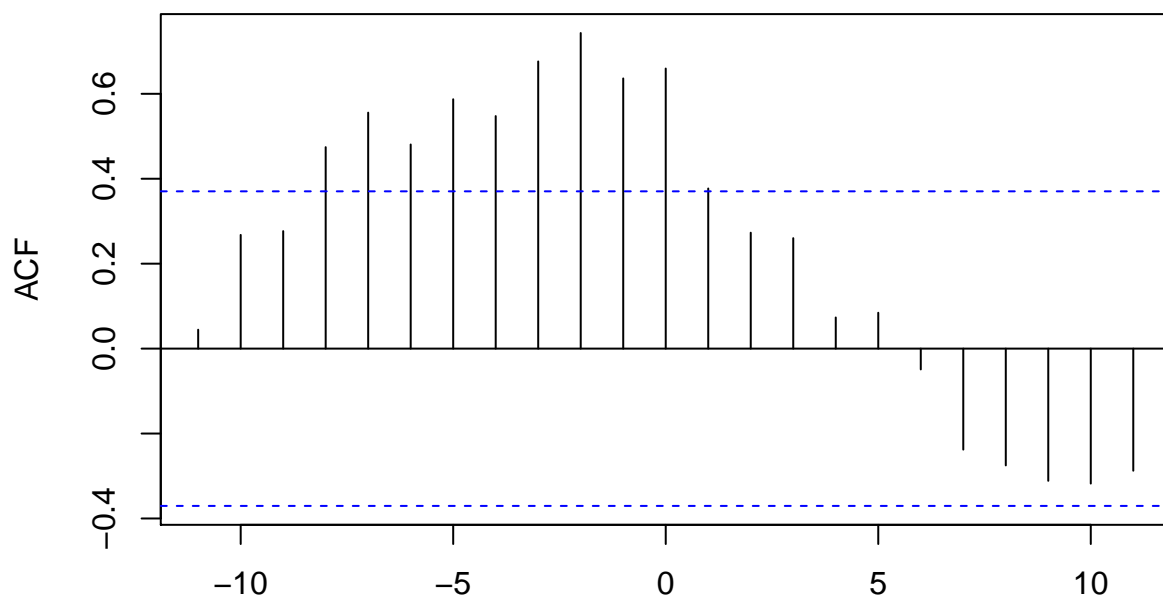


horizon 2 4 truth

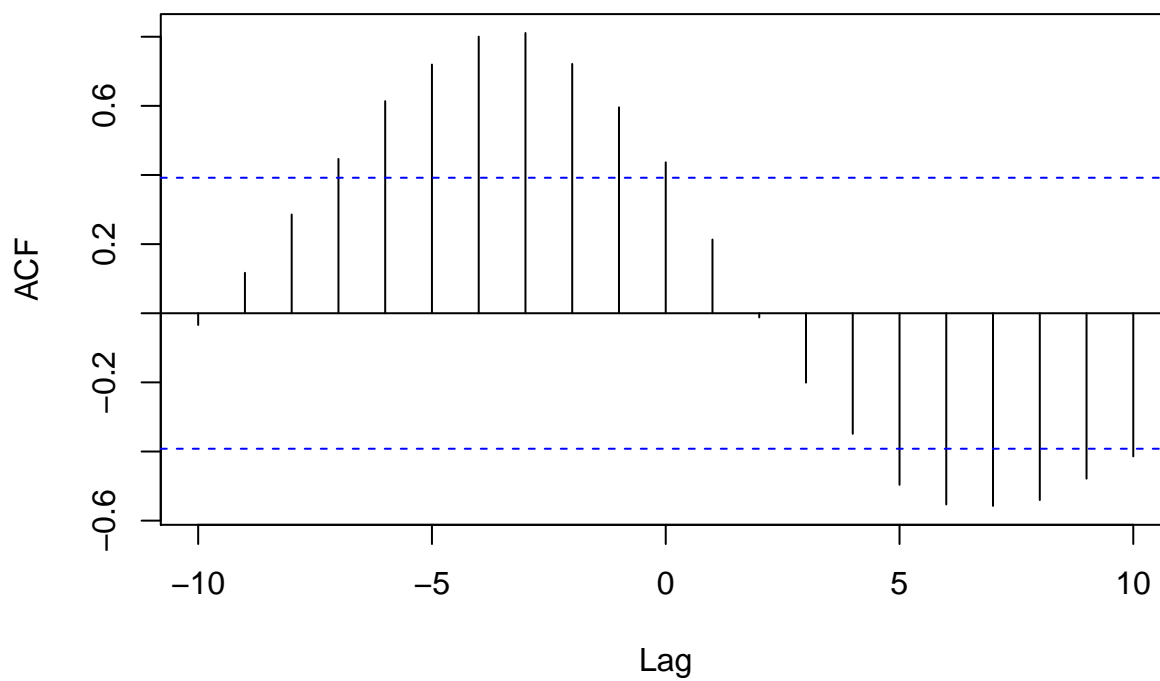
2 wk ahead – 49



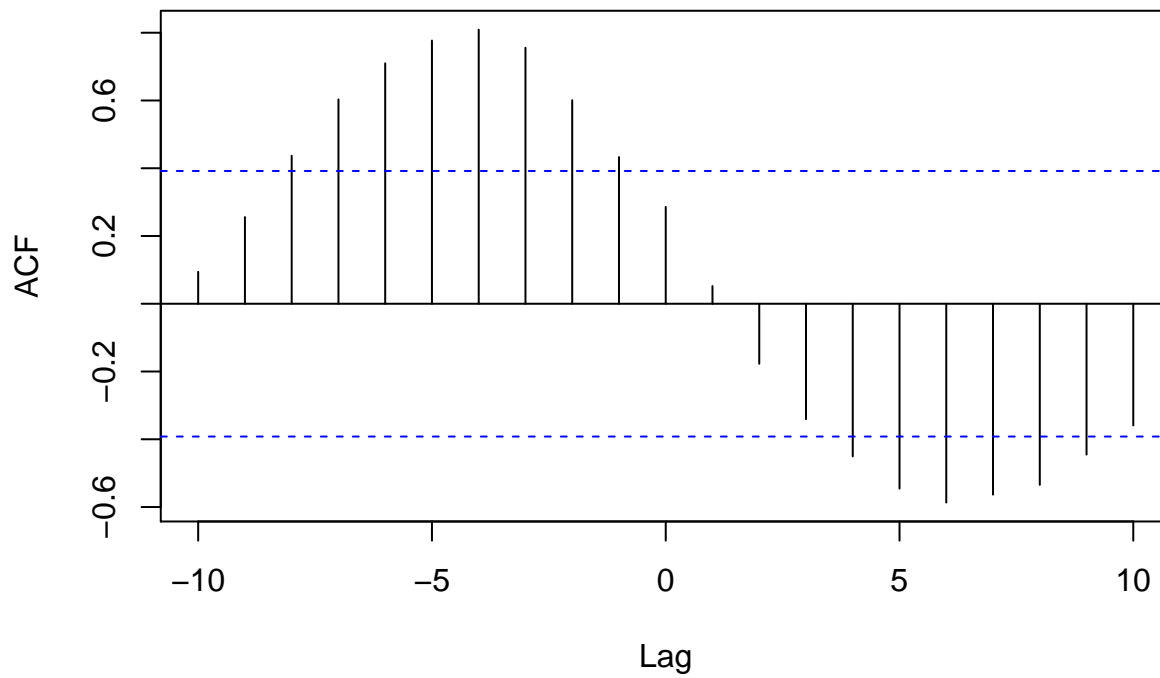
4 wk ahead – 49

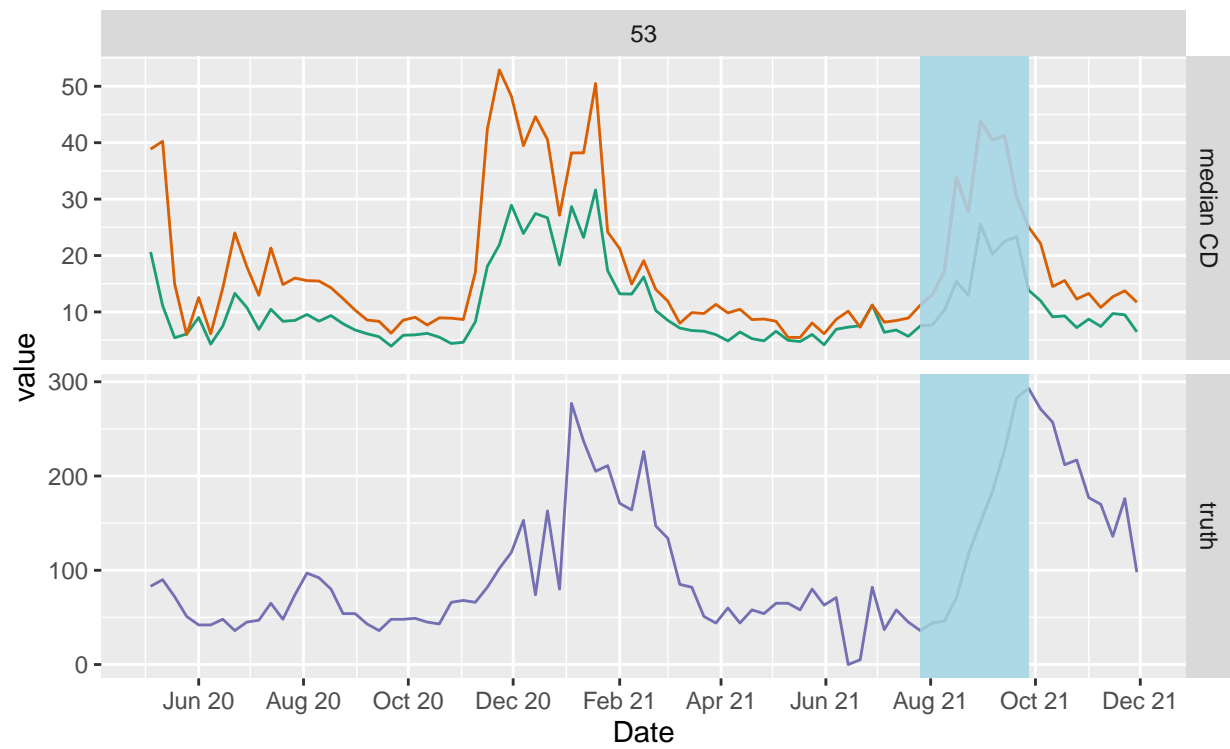


2 wk ahead – 51

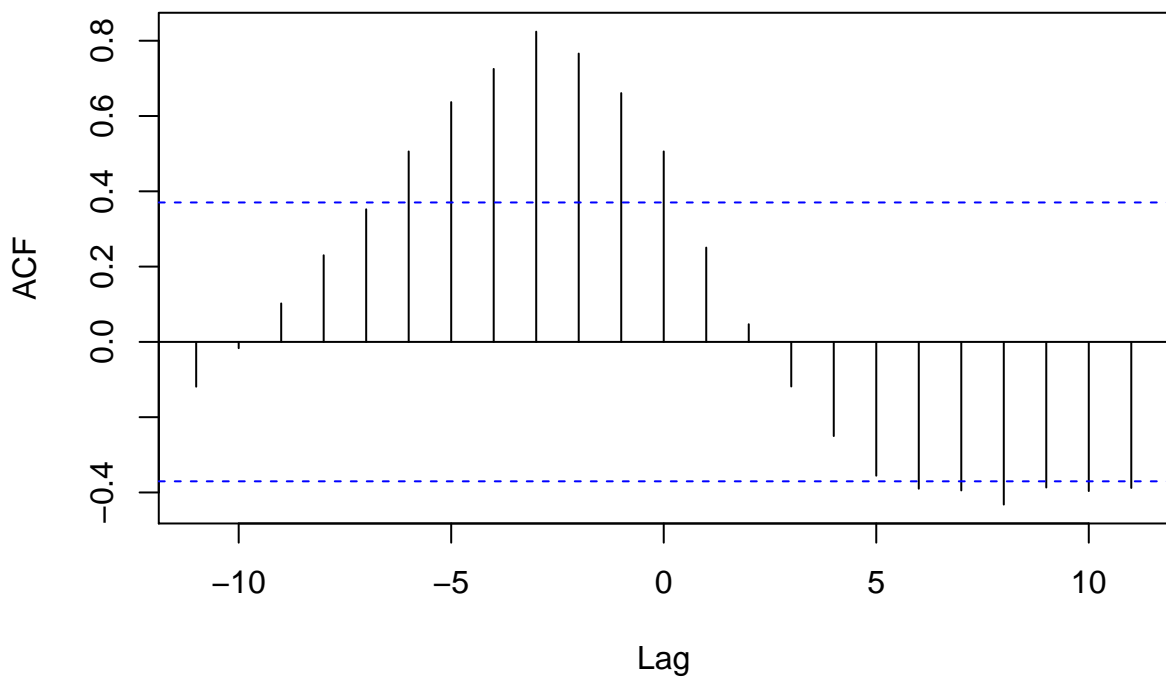


4 wk ahead – 51

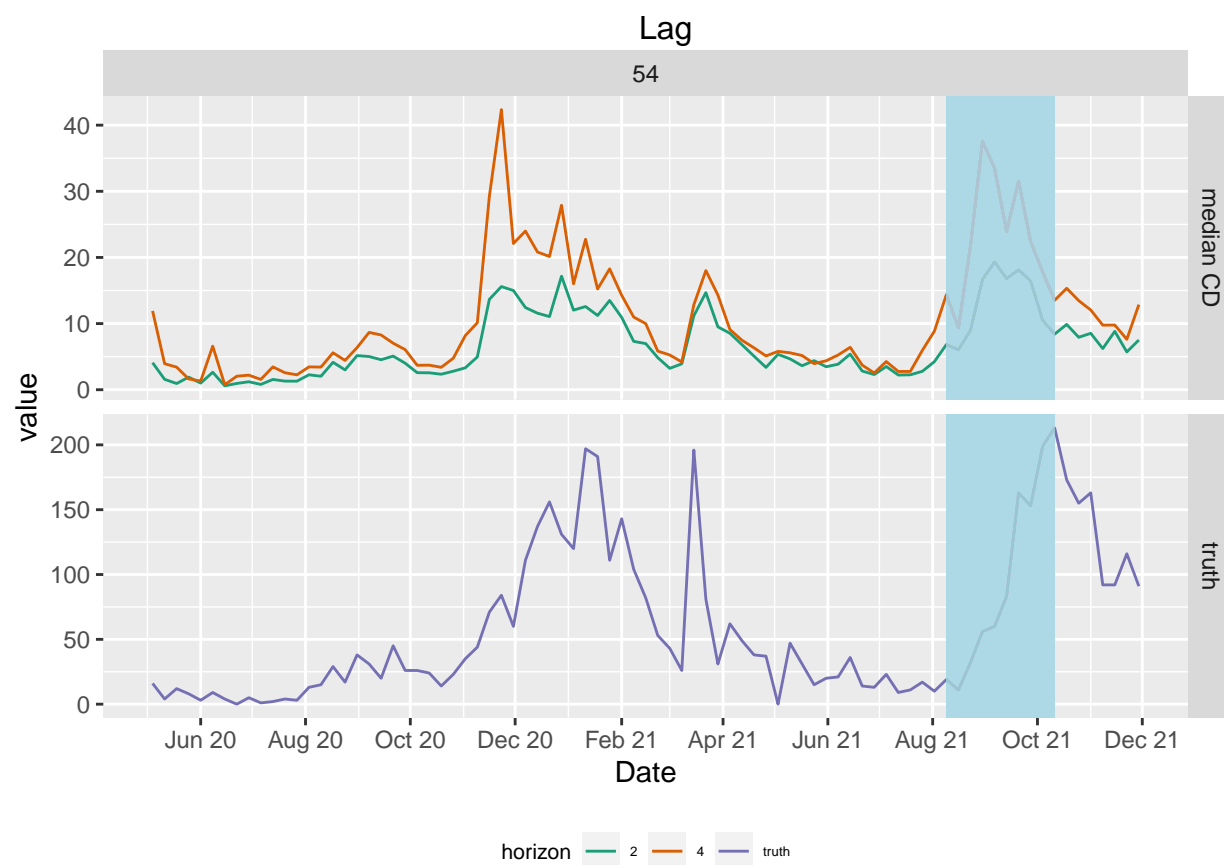
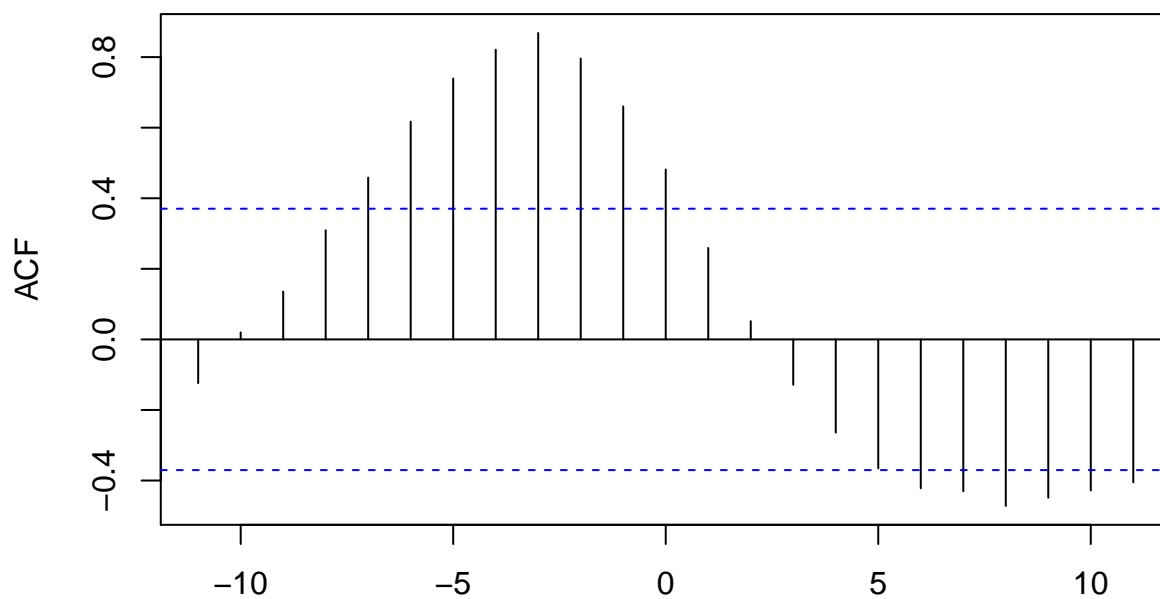




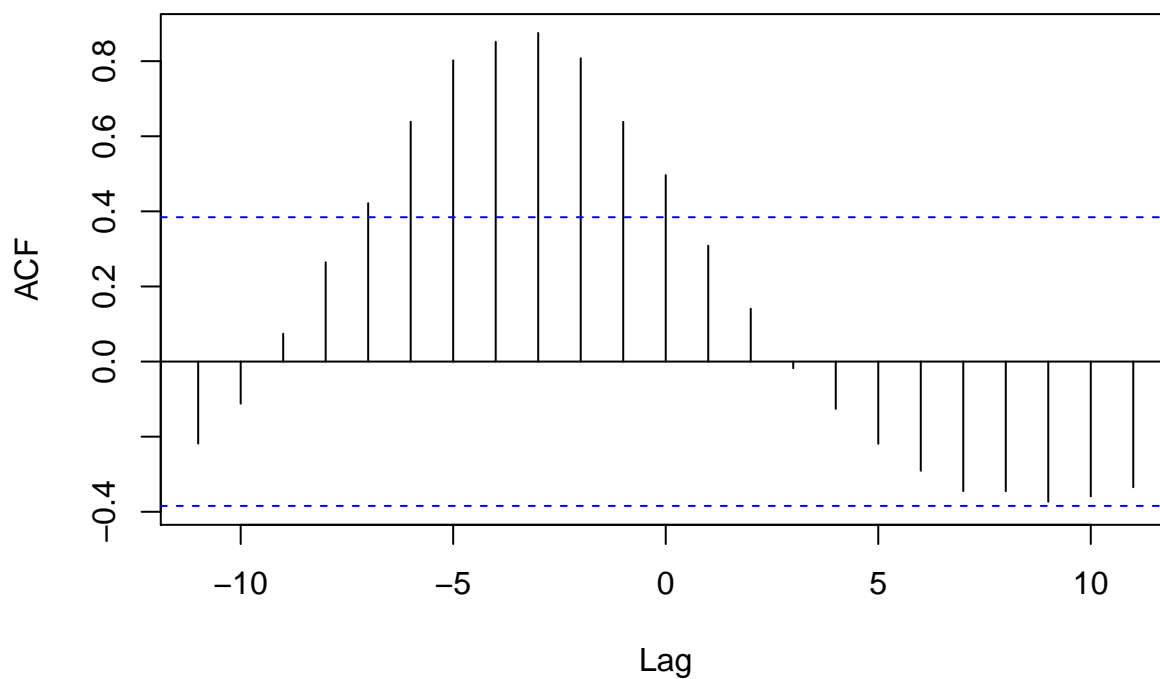
2 wk ahead – 53



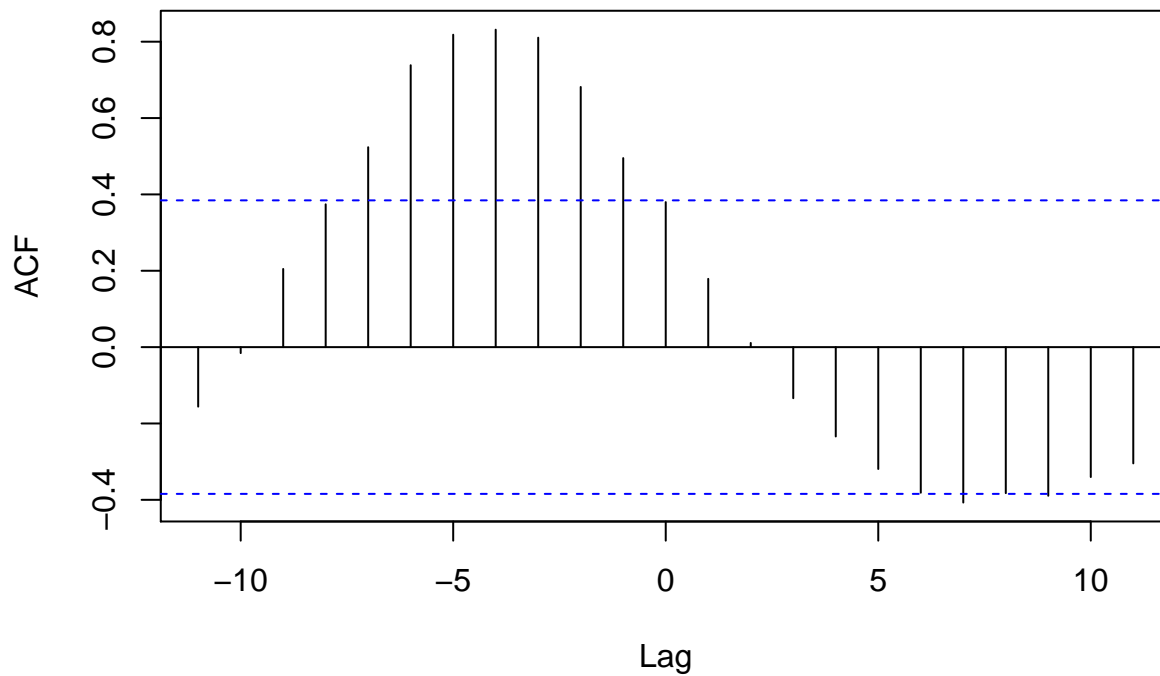
4 wk ahead – 53

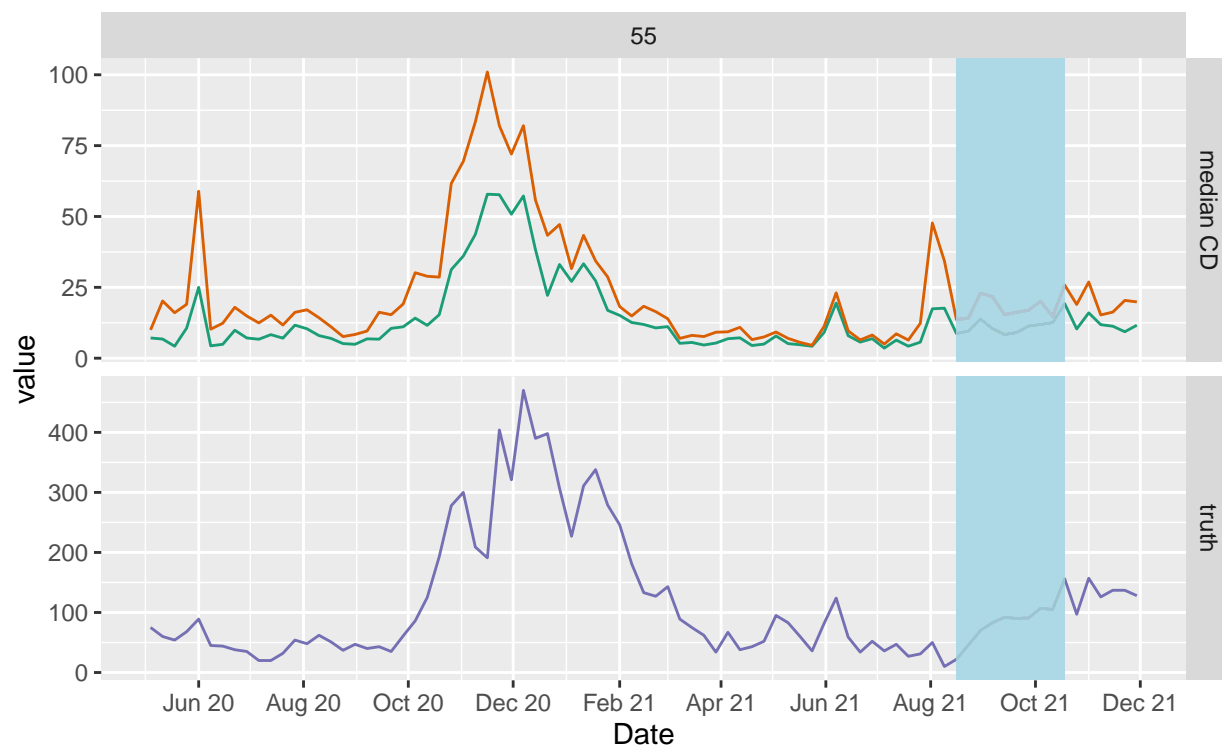


2 wk ahead – 54



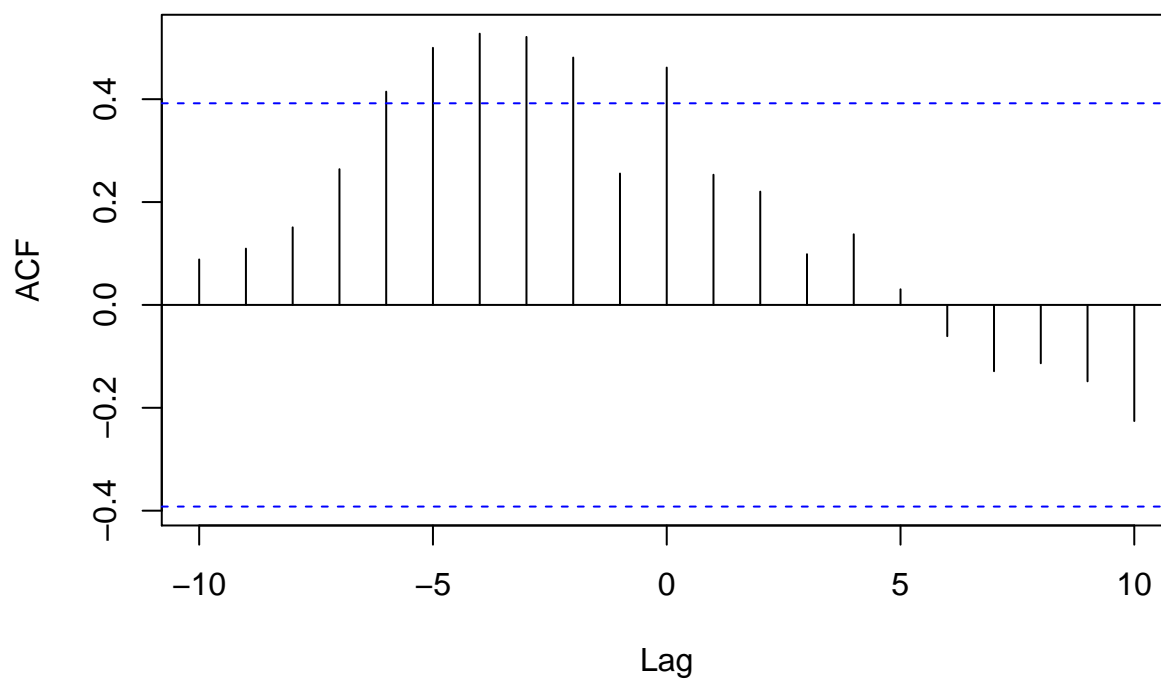
4 wk ahead – 54



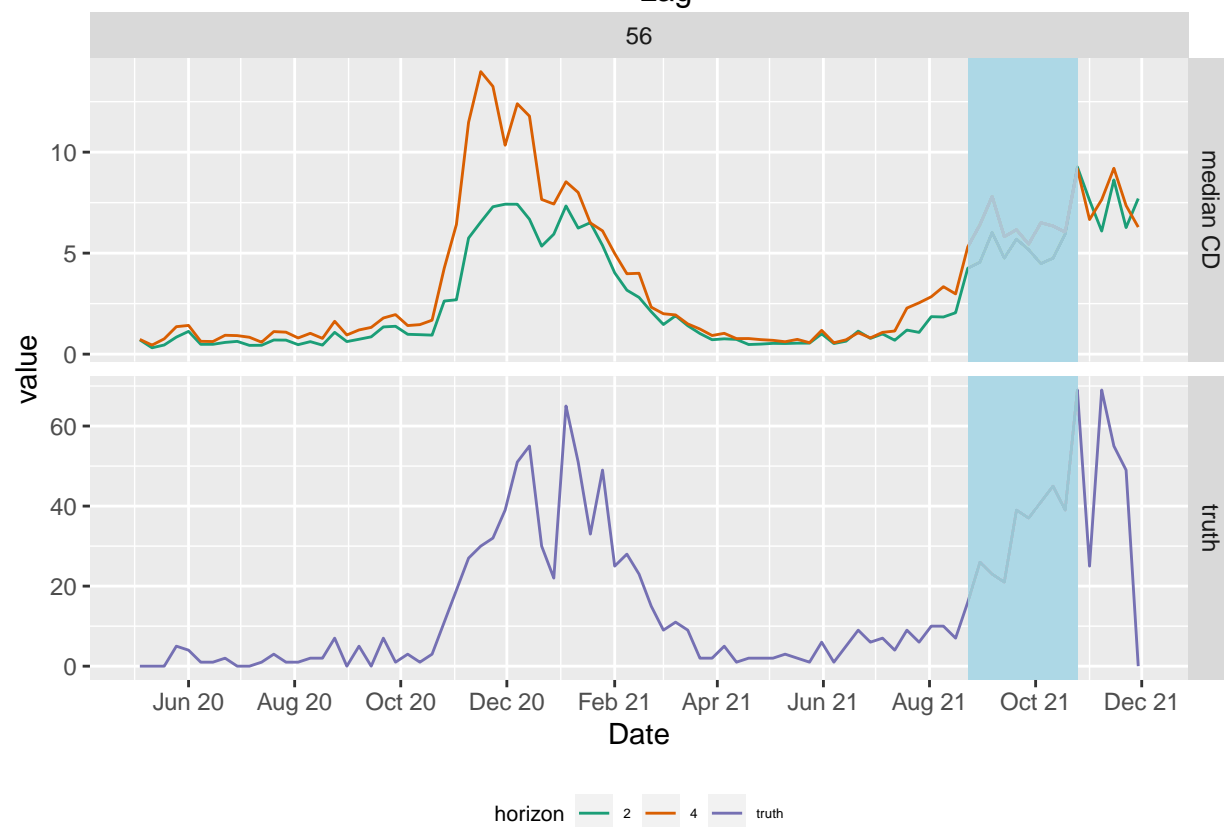
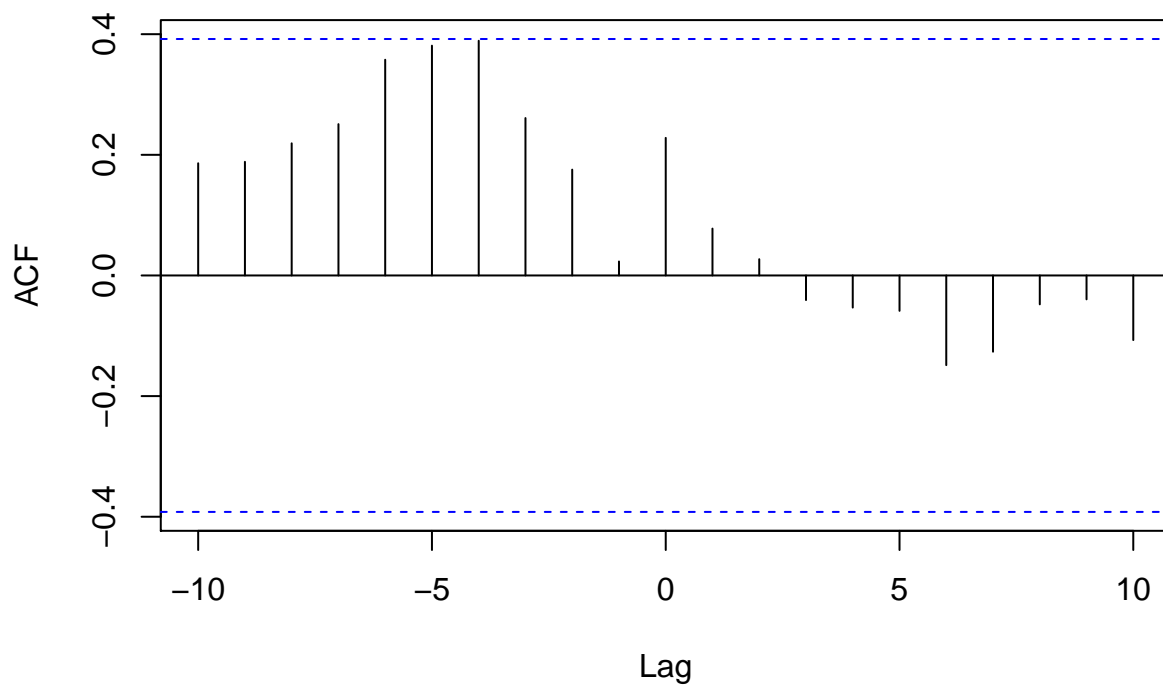


horizon 2 4 truth

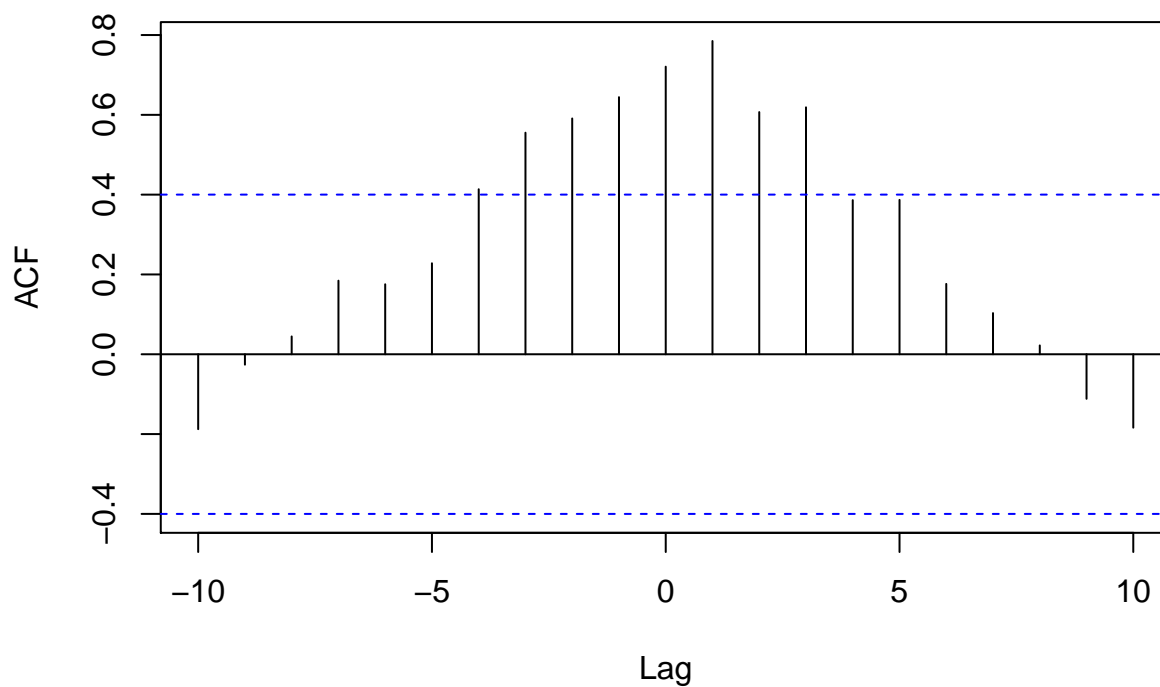
2 wk ahead – 55



4 wk ahead – 55



2 wk ahead – 56



4 wk ahead – 56

