

Distance as a signal

Nutcha Wattanachit, Johannes Bracher, Evan Ray, Nick Reich

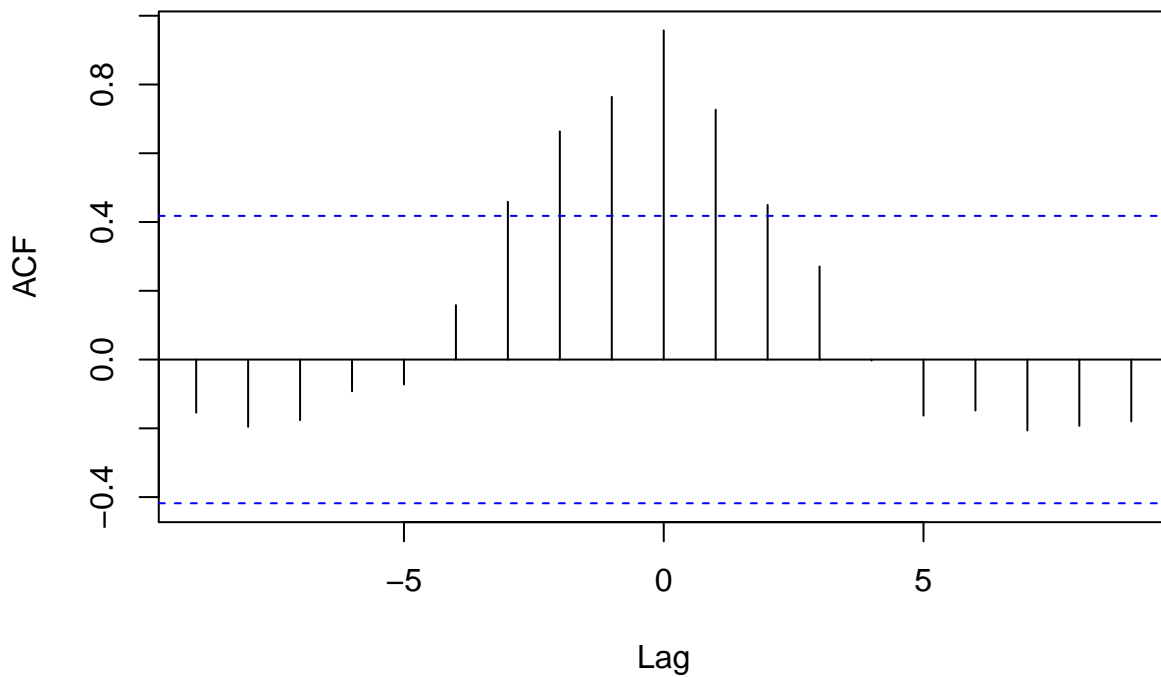
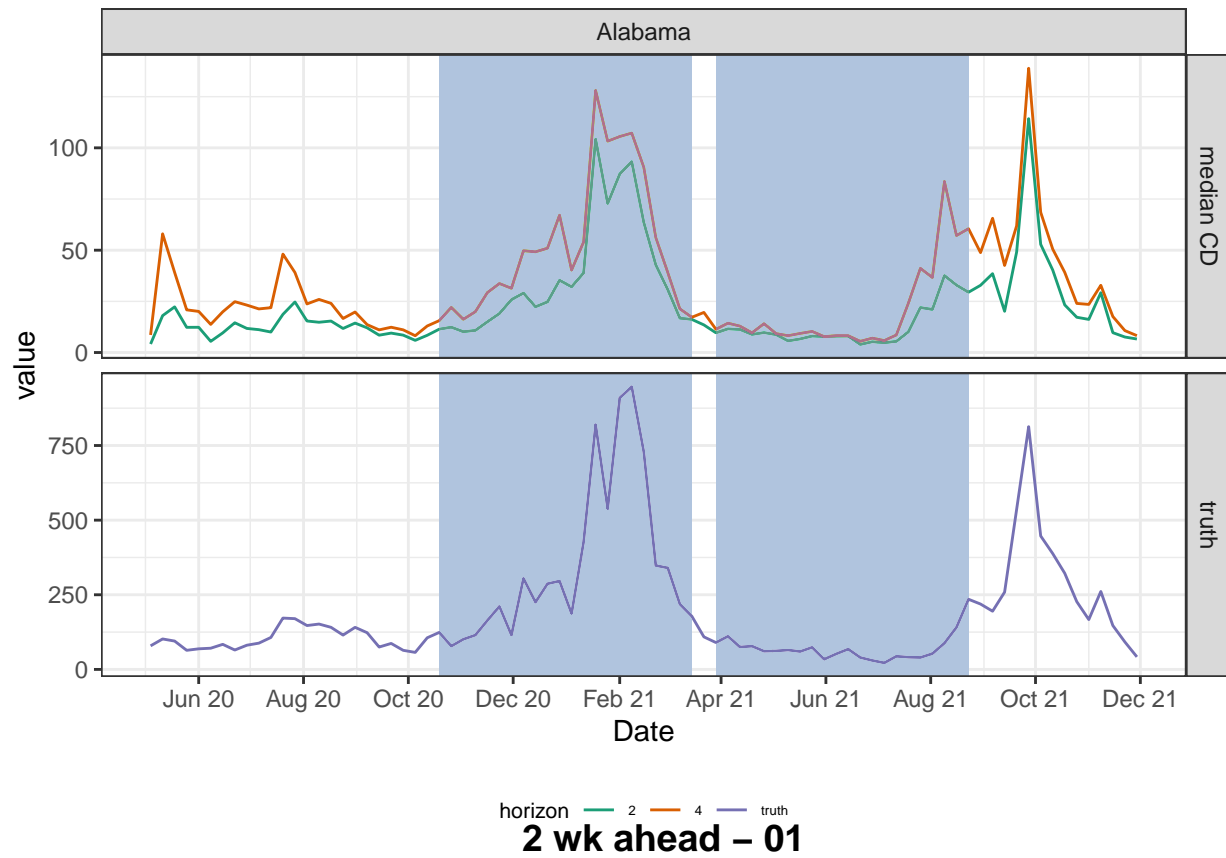
02/10/2023

Cross-correlations

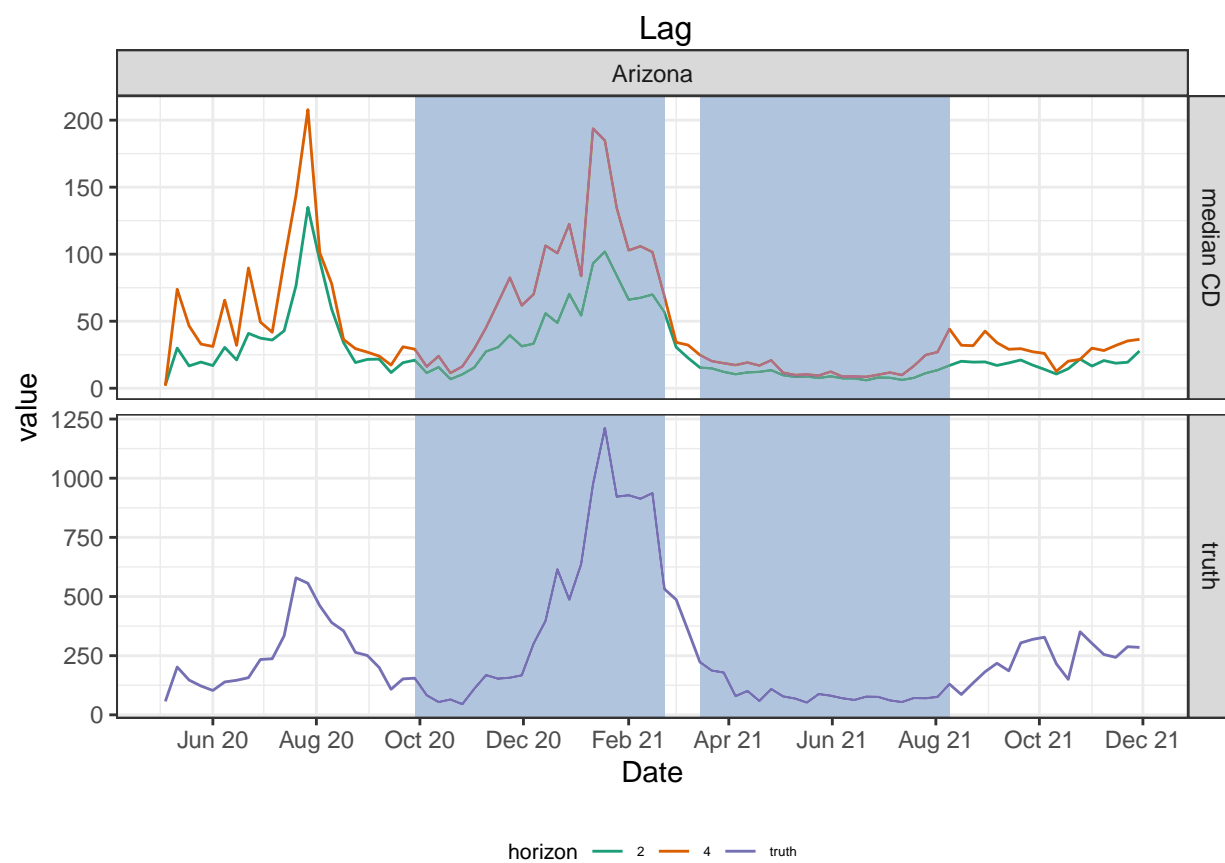
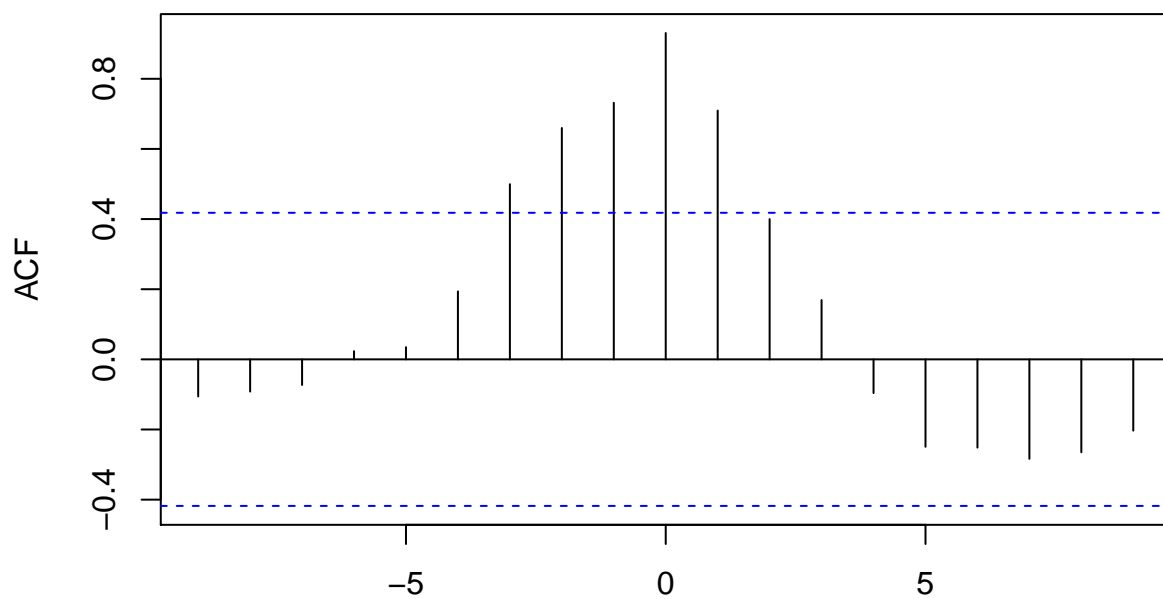
Forecast inclusion criteria

- 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 36 states (continental US) except HI, AK and DC. We also exclude WY,OK,ME,NY,SC,NC,DE,MI,IO,UT for low or highly variable incidents.

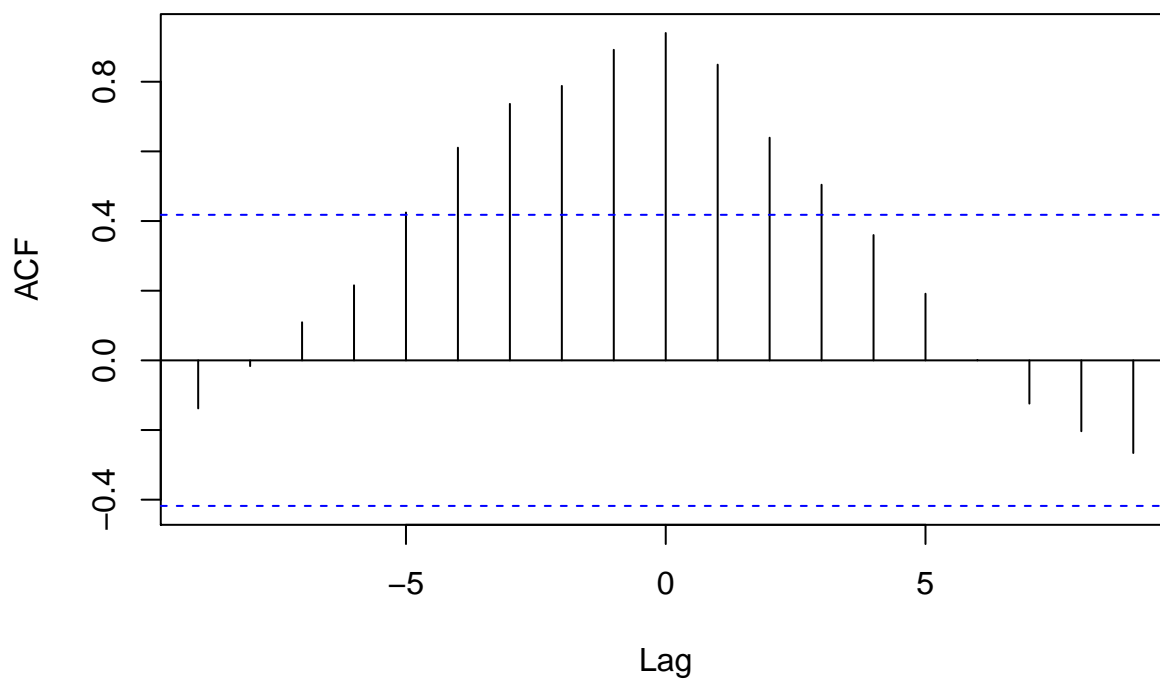
Winter 2020/21 Up



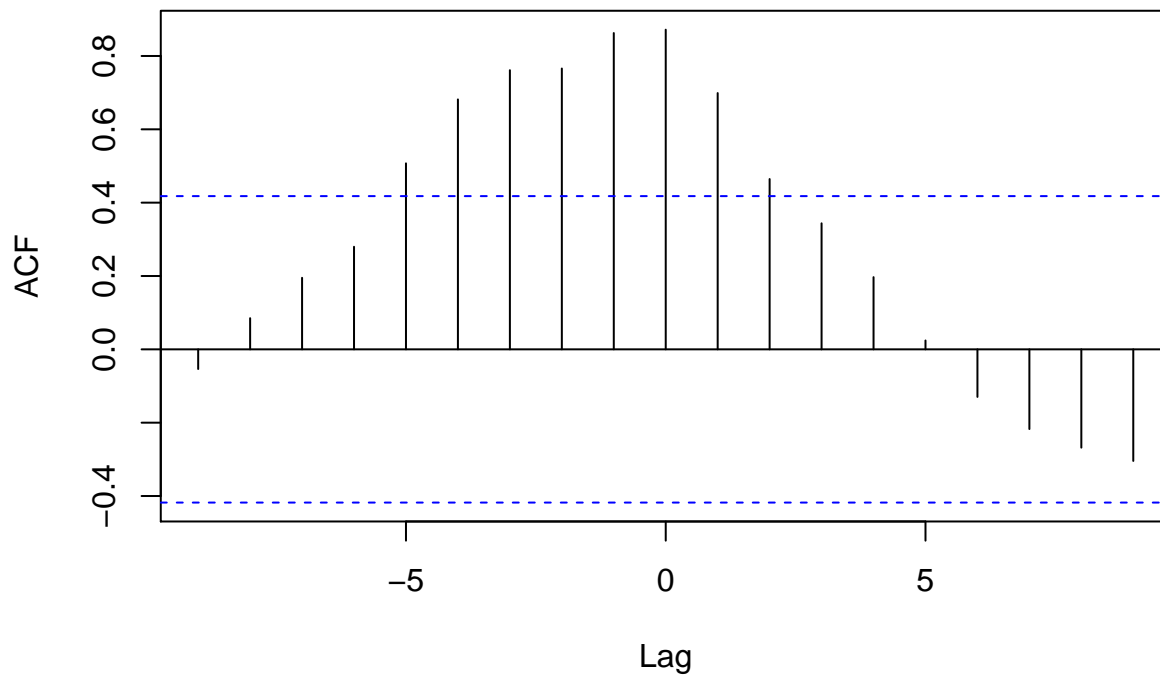
4 wk ahead – 01

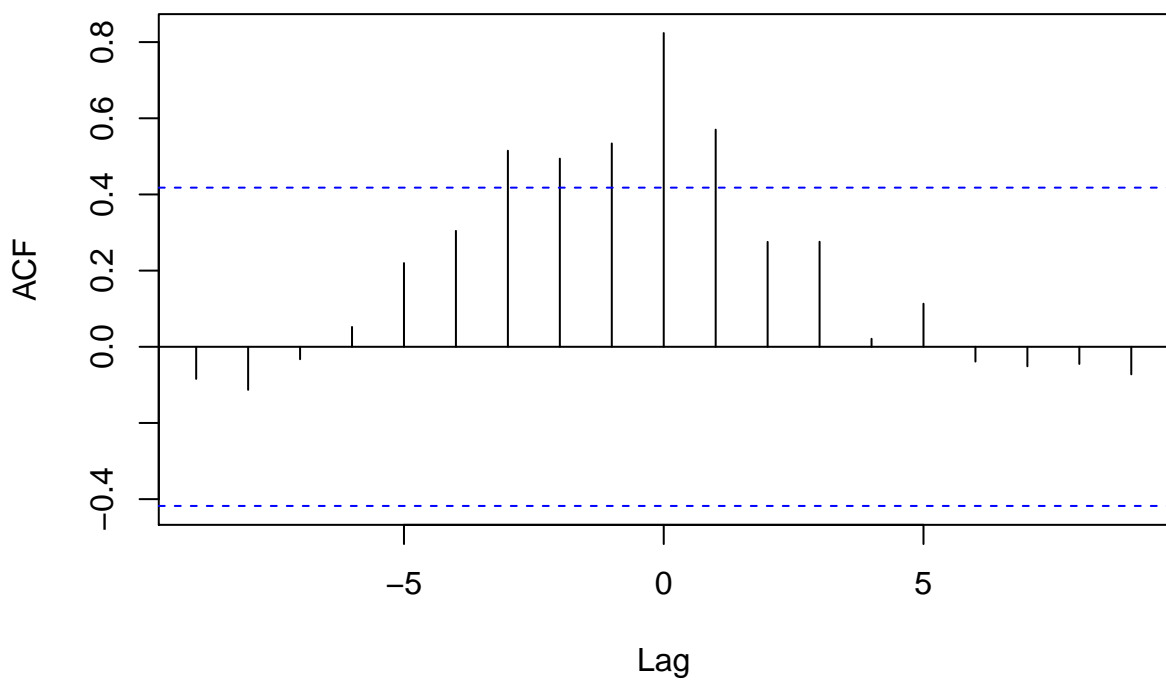
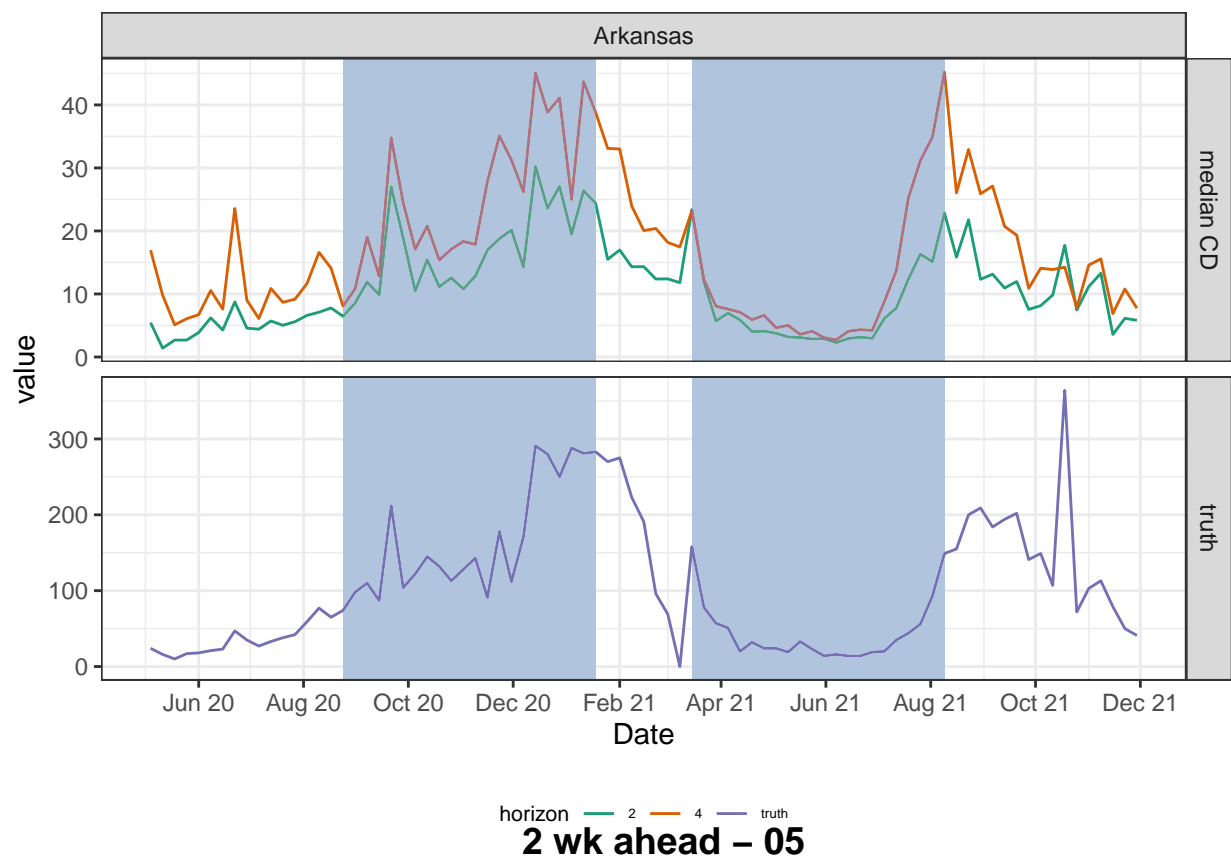


2 wk ahead – 04

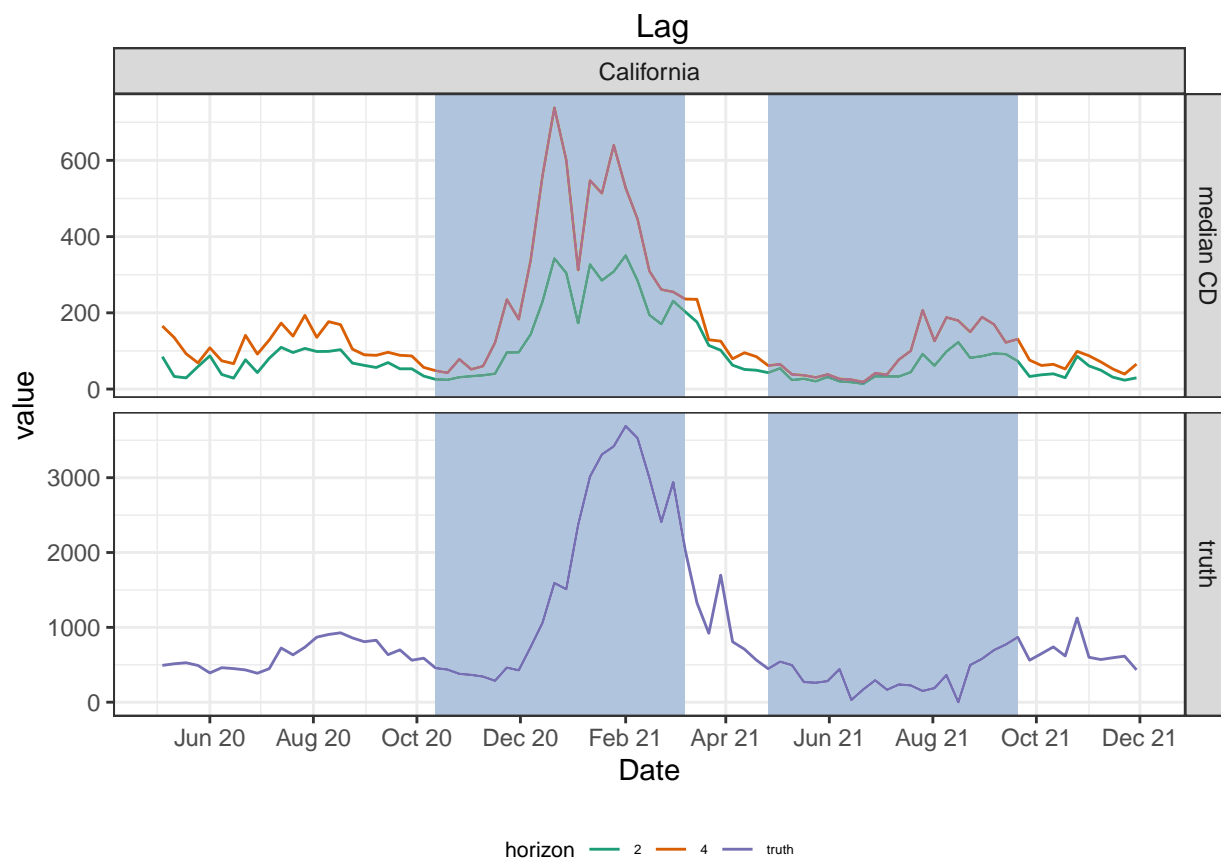
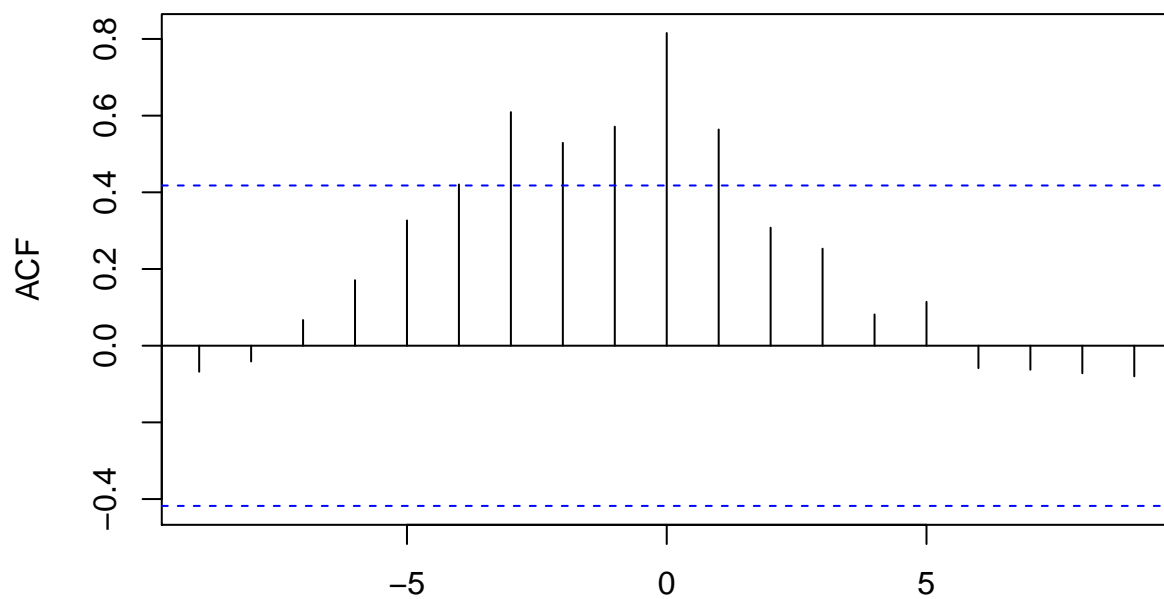


4 wk ahead – 04

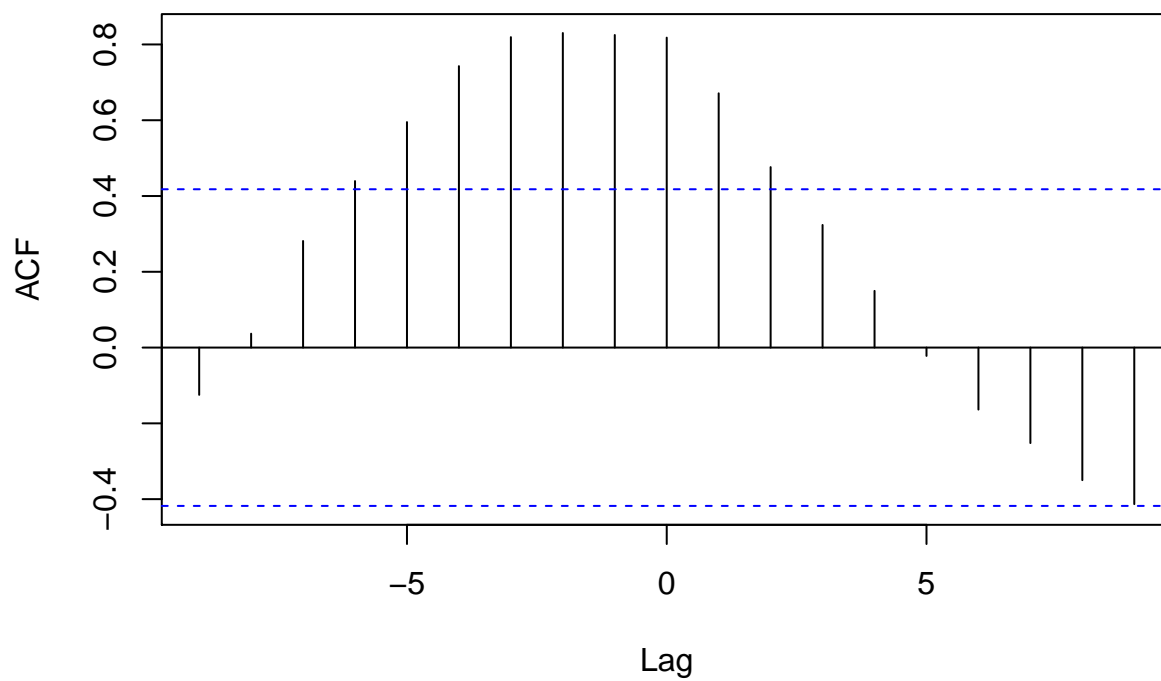




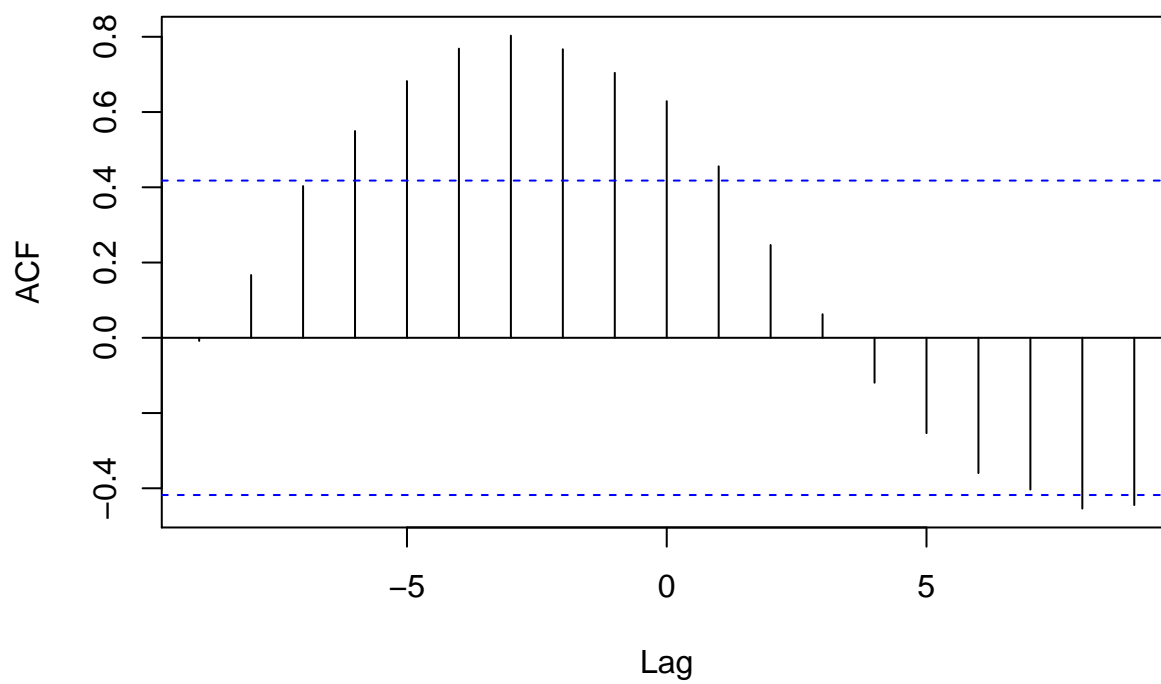
4 wk ahead – 05

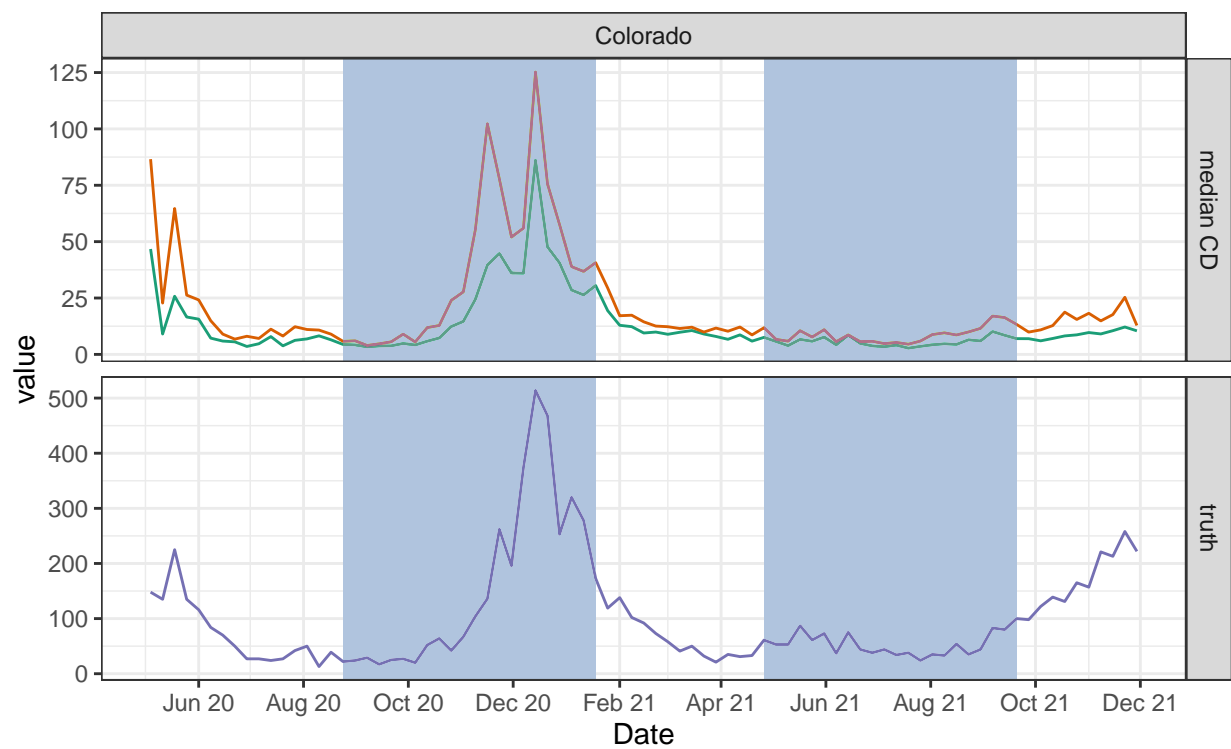


2 wk ahead – 06



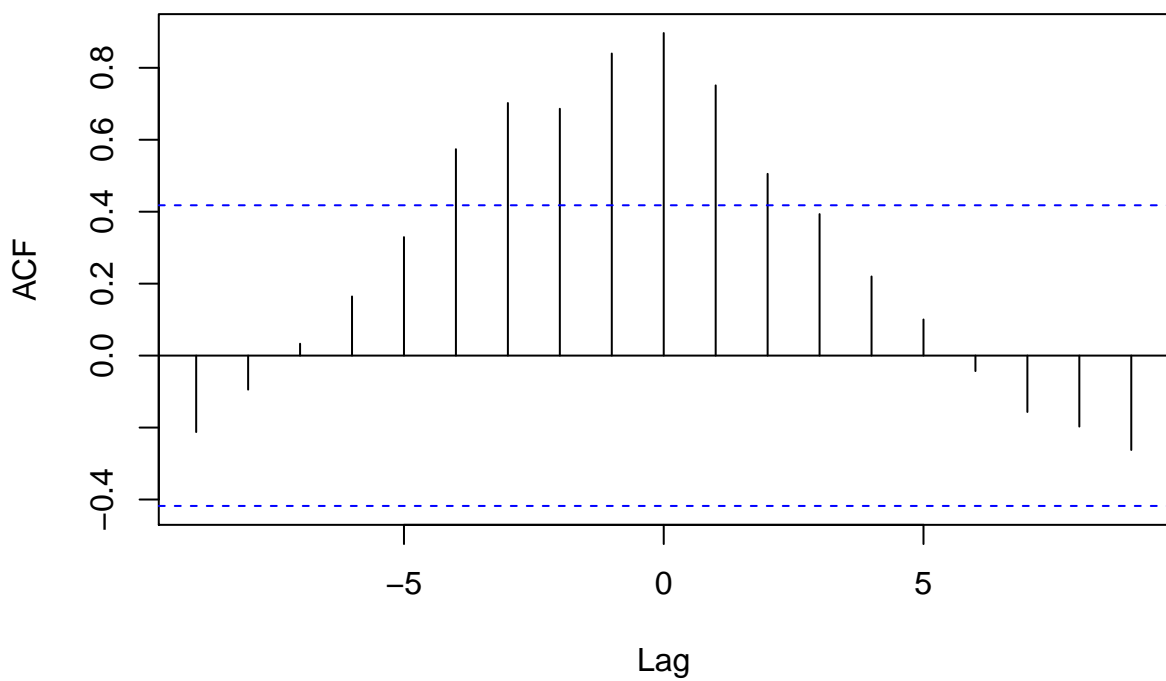
4 wk ahead – 06



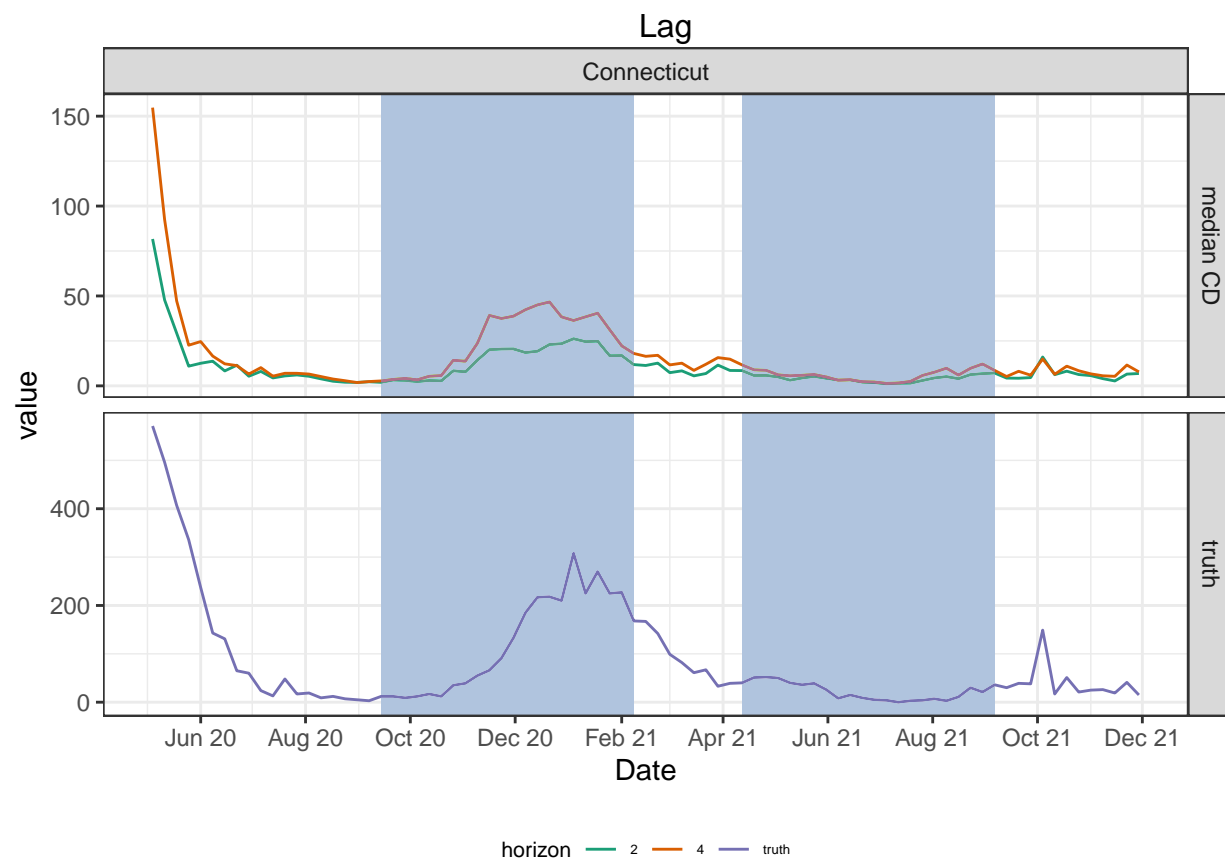
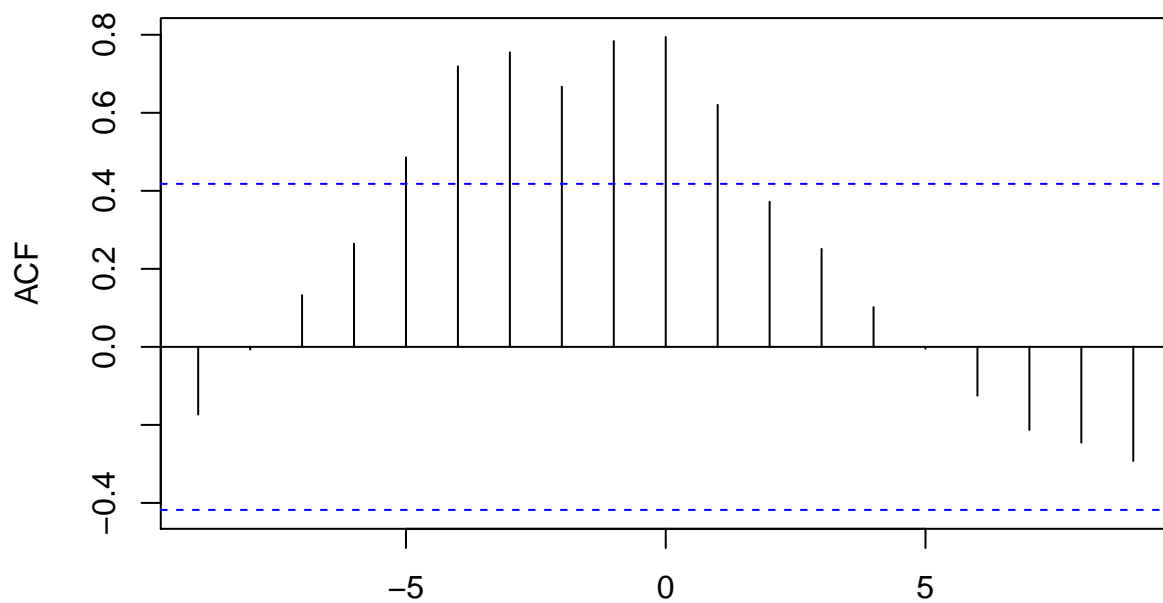


horizon — 2 — 4 — truth

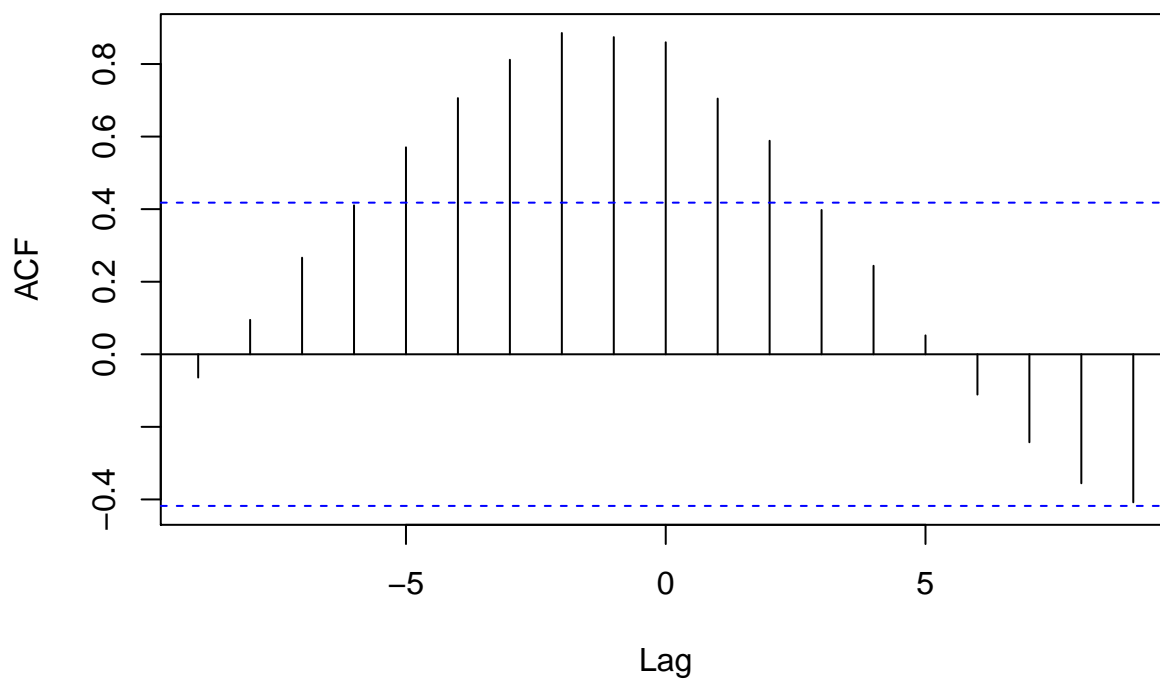
2 wk ahead – 08



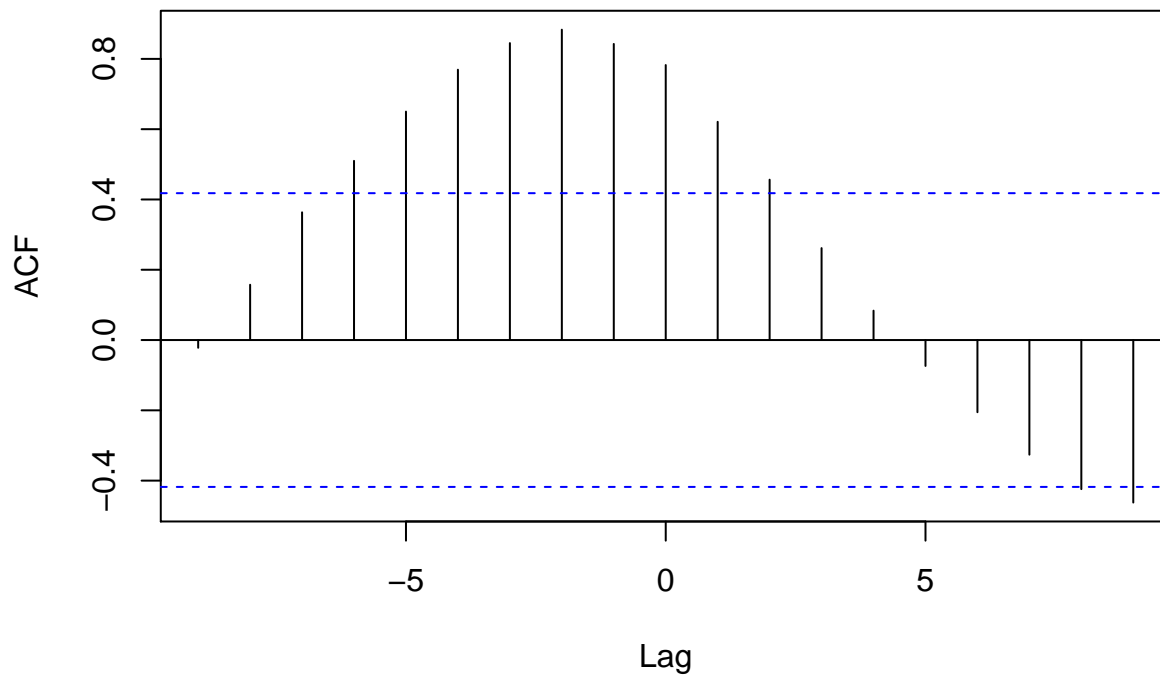
4 wk ahead – 08

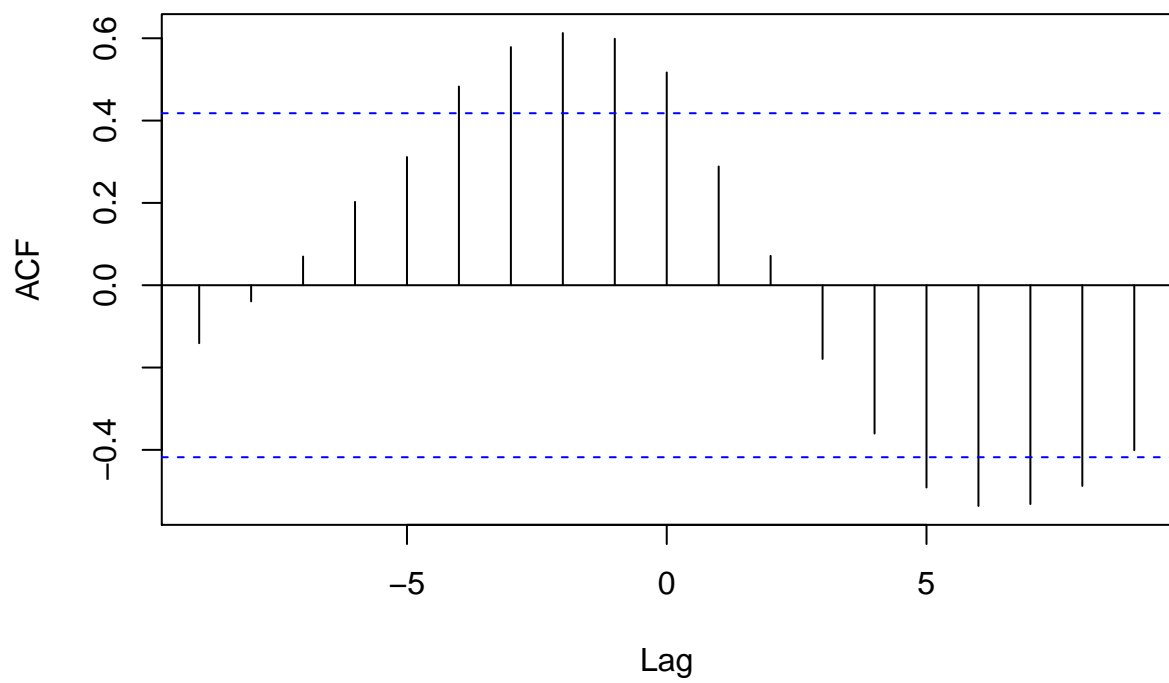
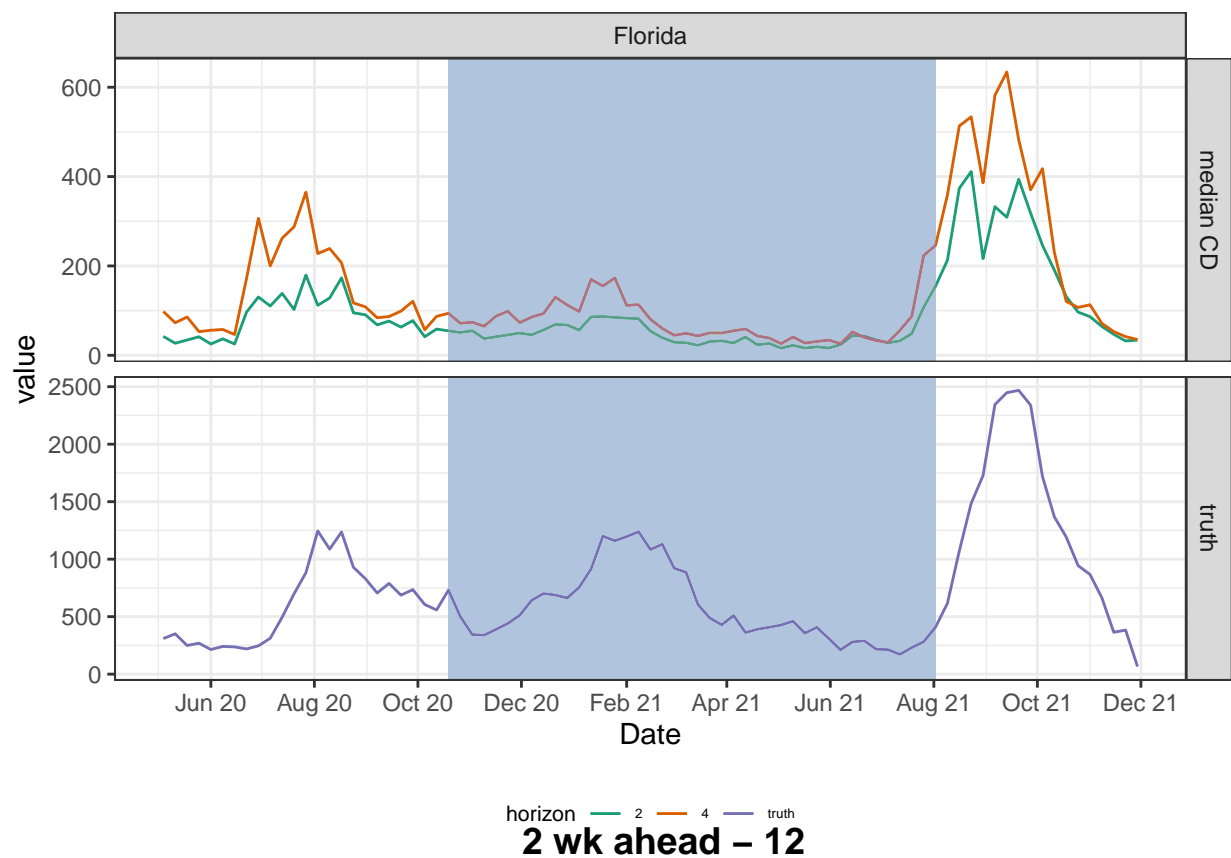


2 wk ahead – 09

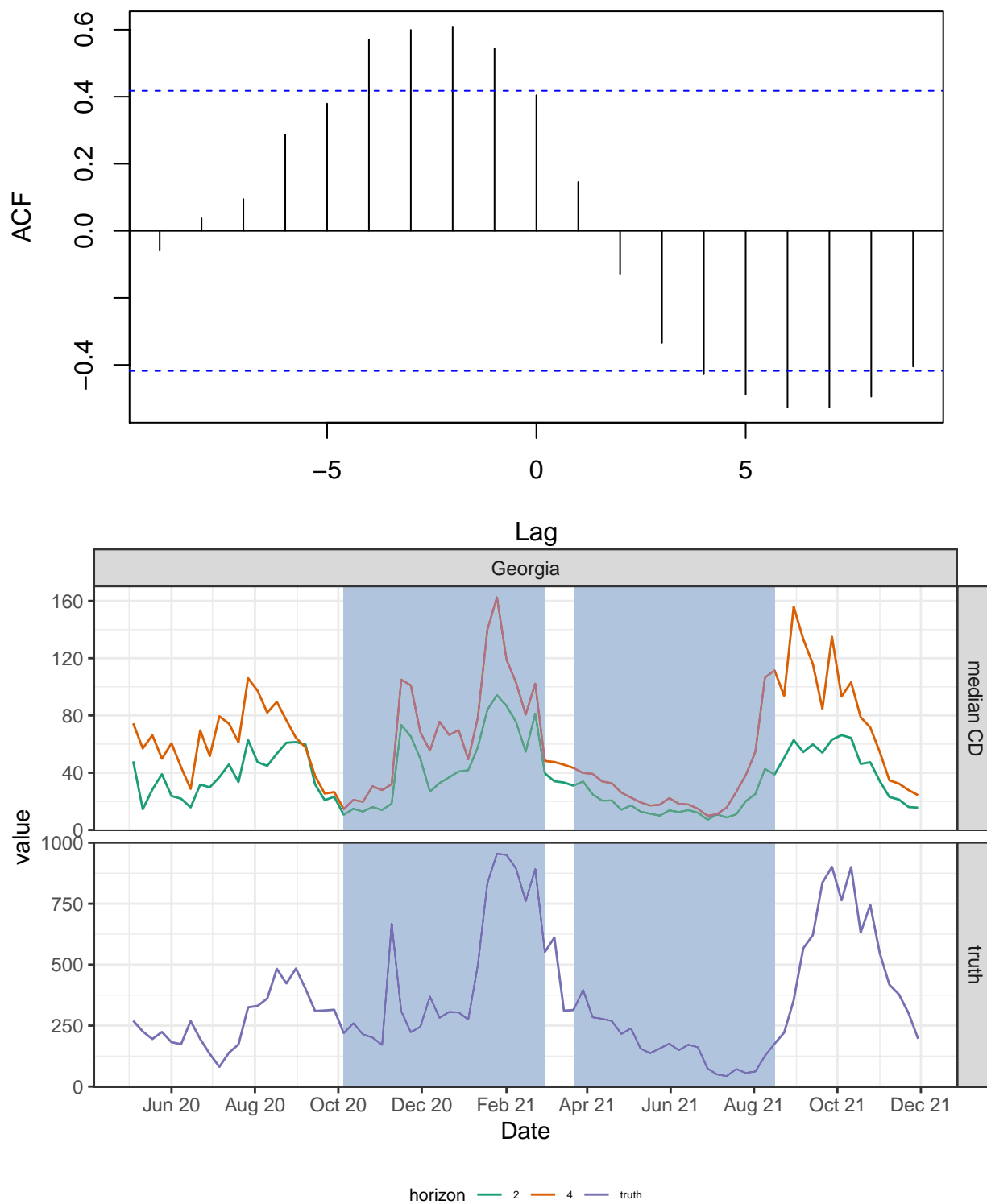


4 wk ahead – 09

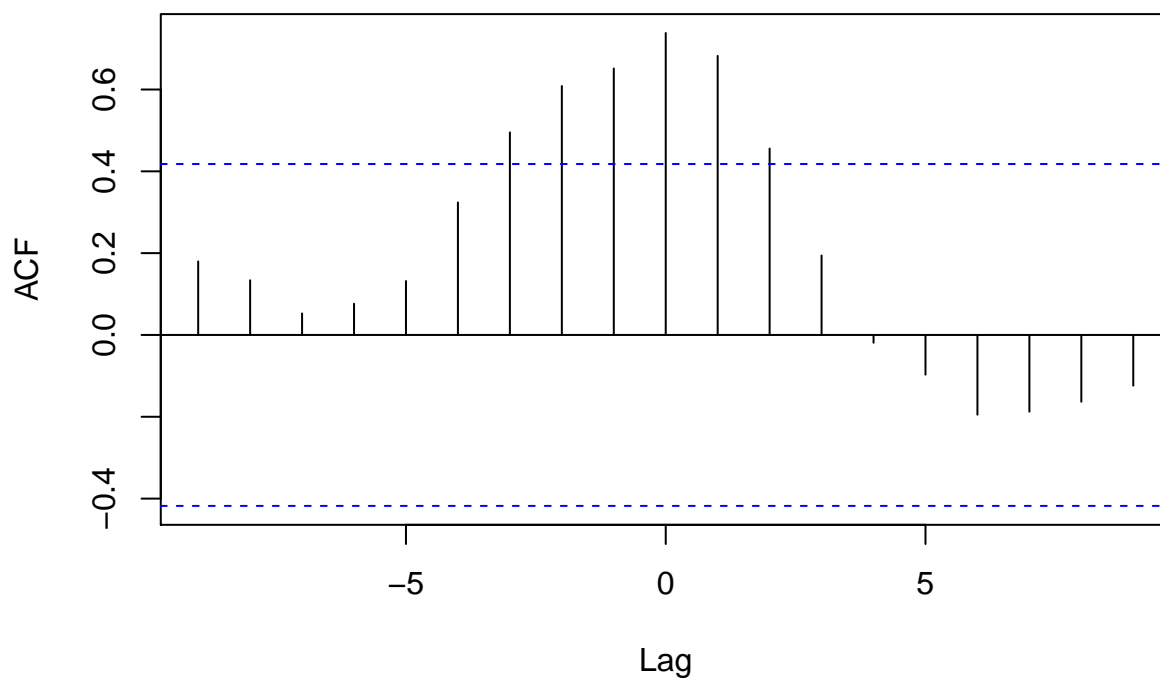




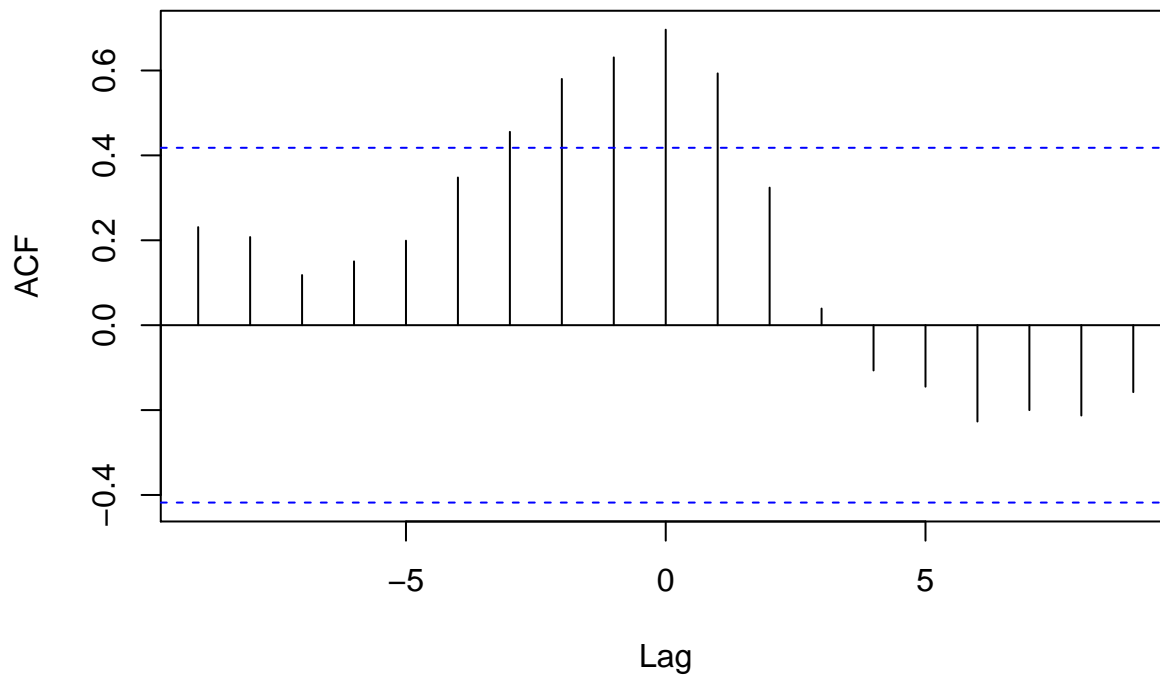
4 wk ahead – 12

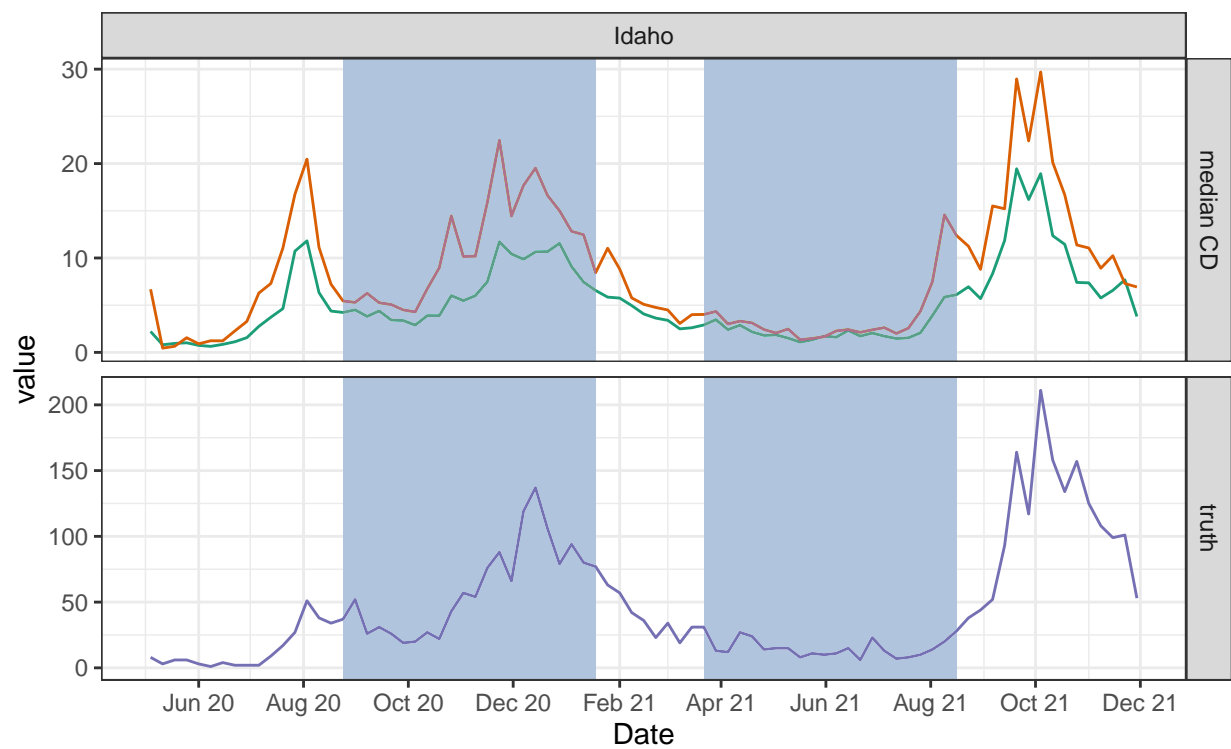


2 wk ahead – 13

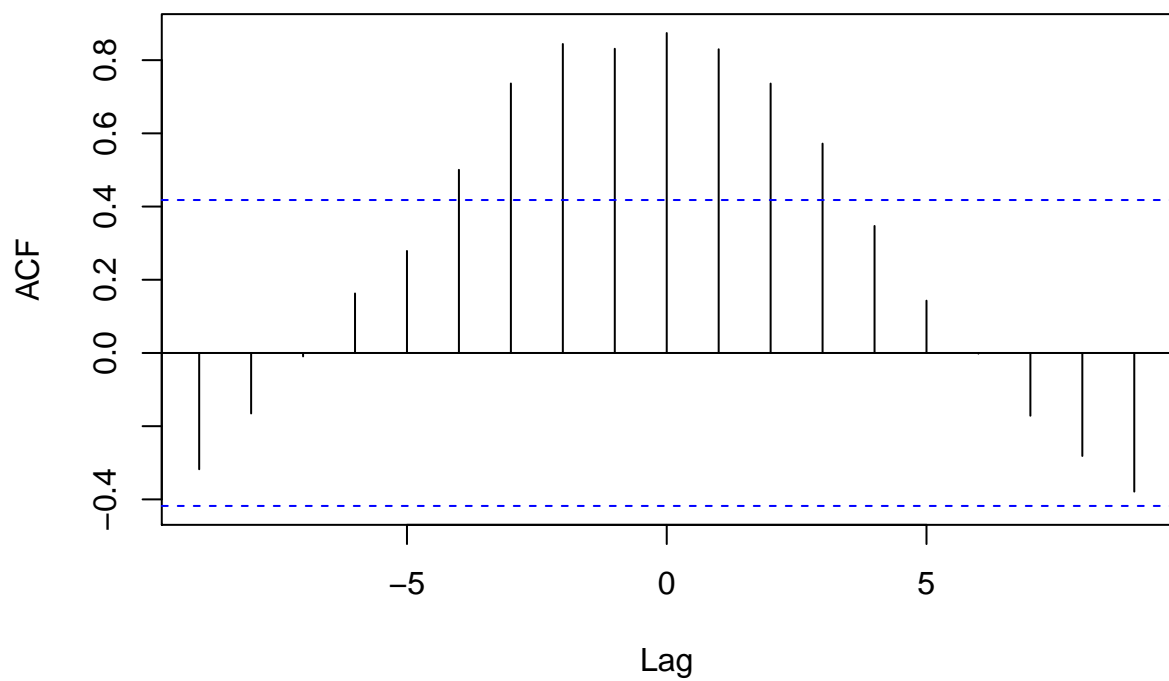


4 wk ahead – 13

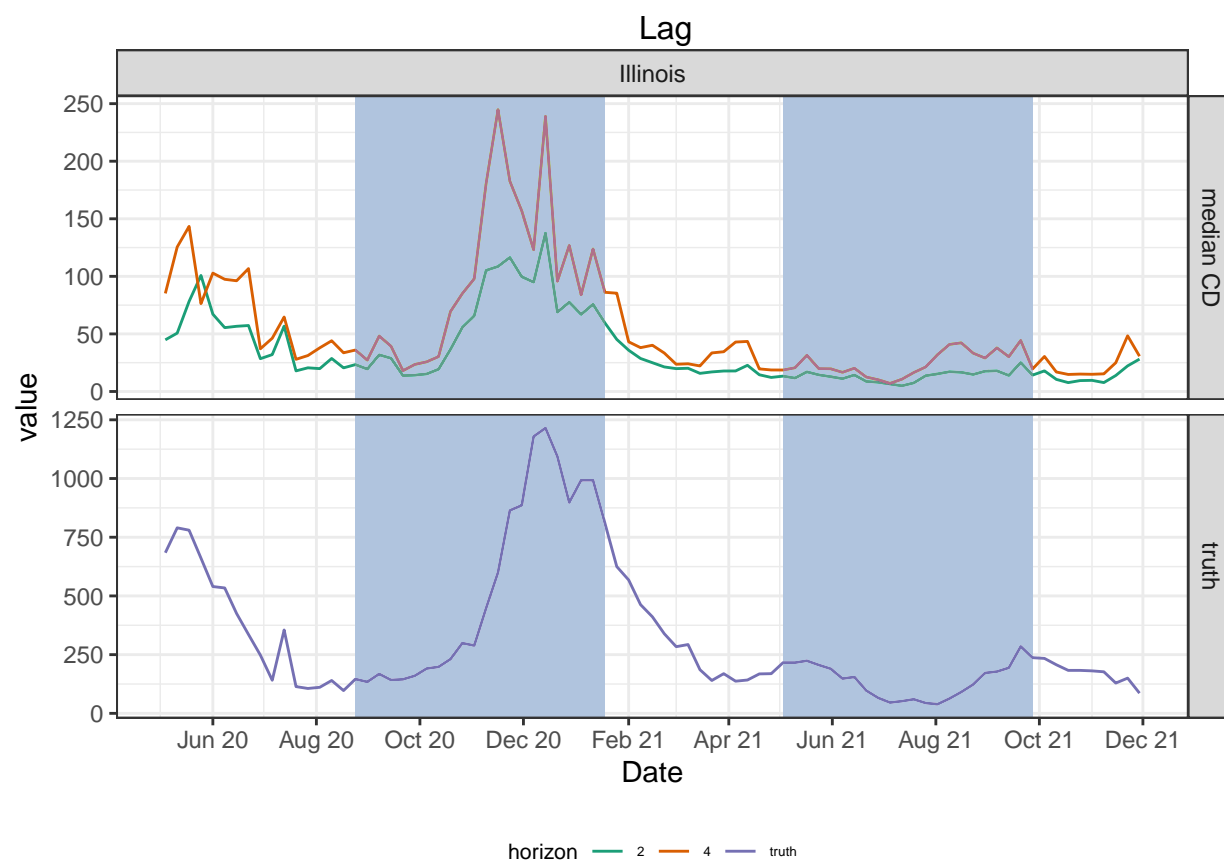
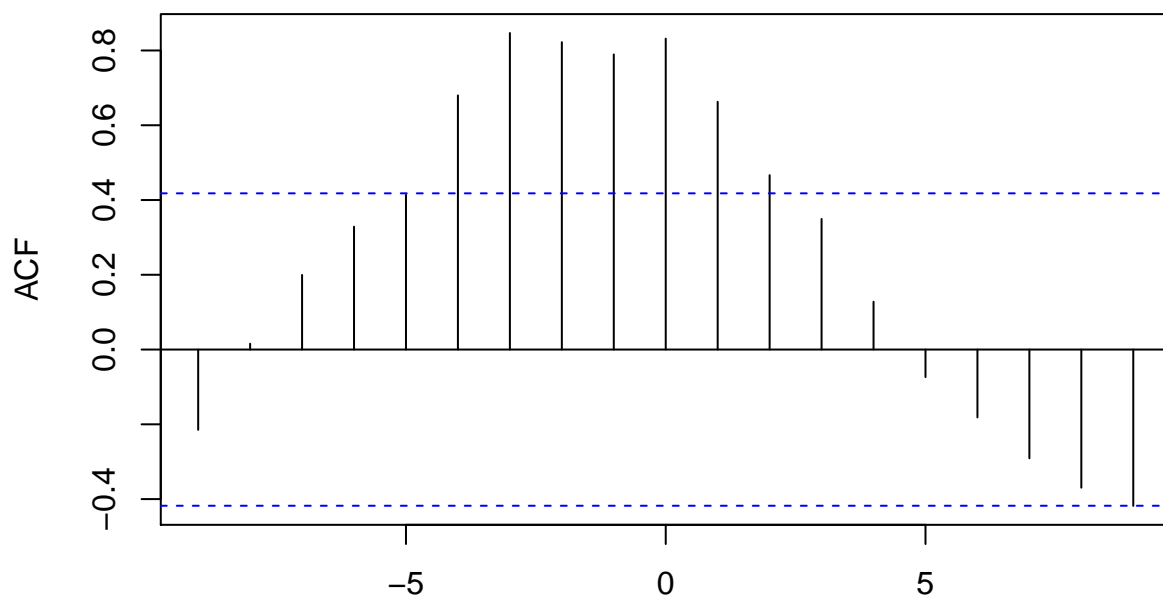




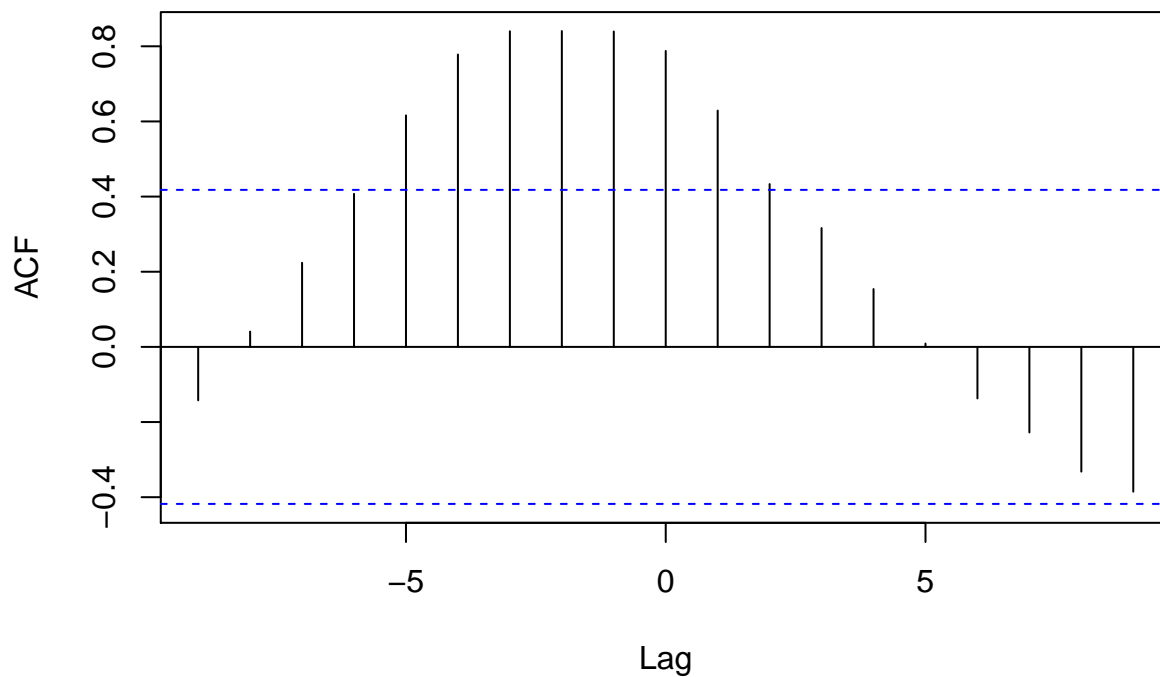
horizon 2 4 truth
2 wk ahead - 16



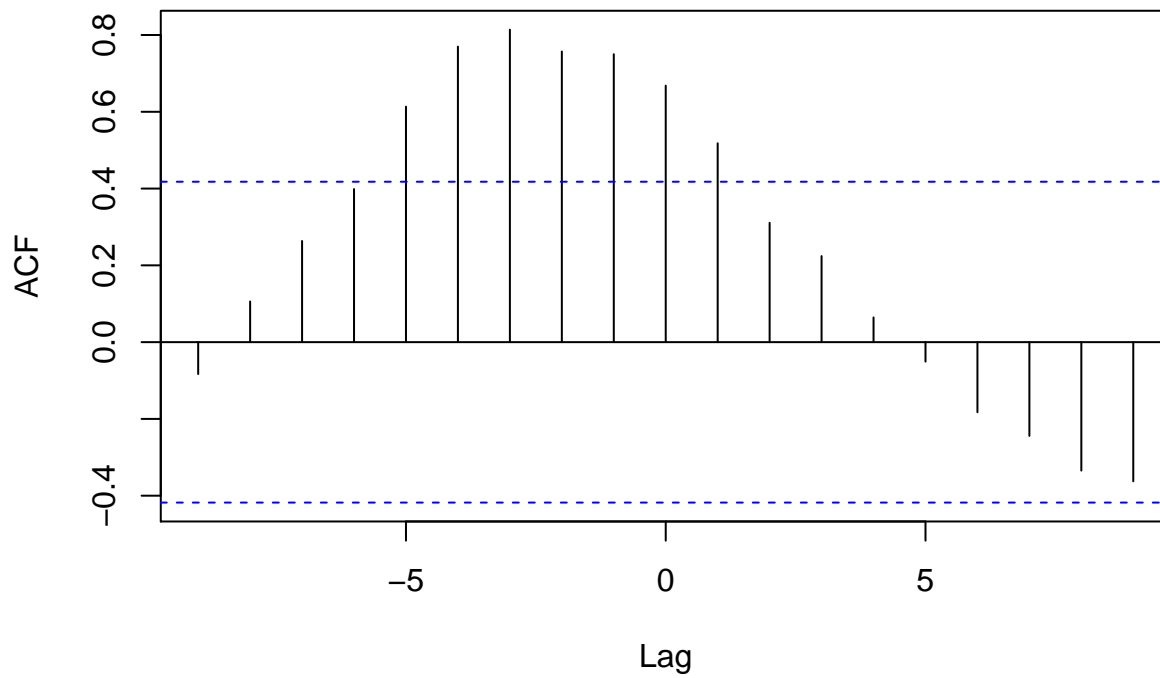
4 wk ahead – 16

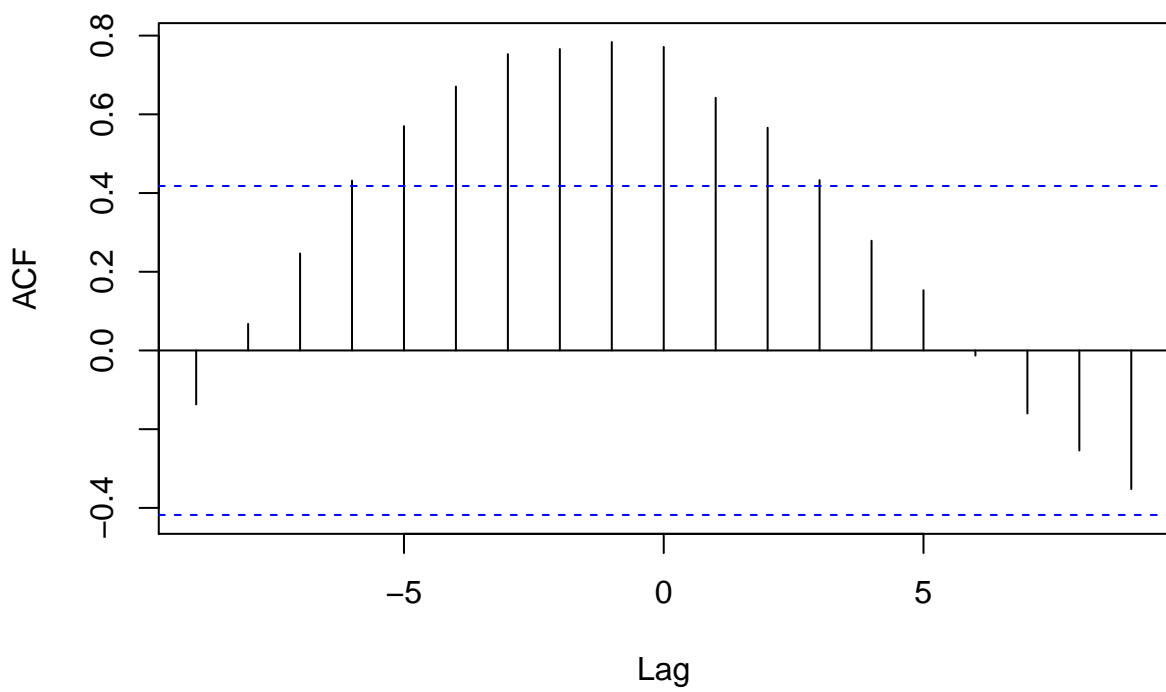
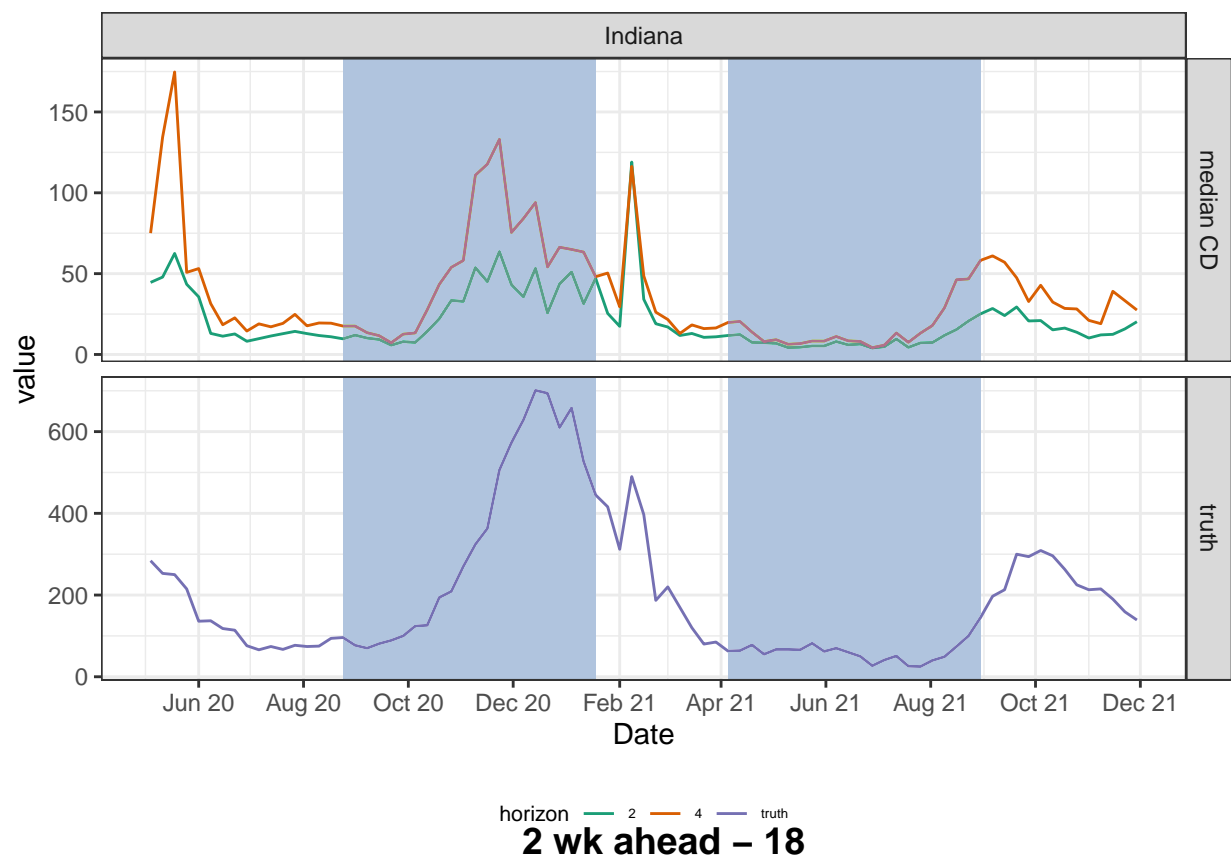


2 wk ahead – 17

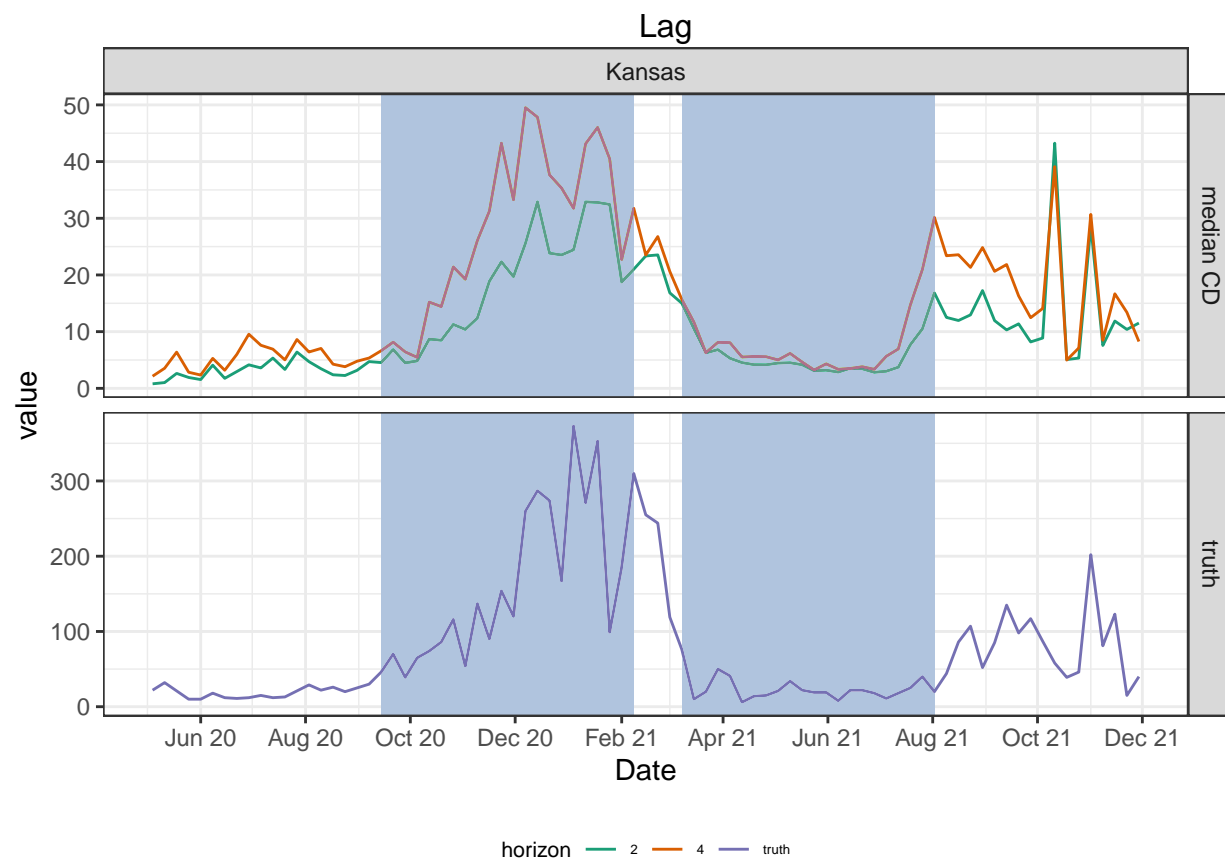
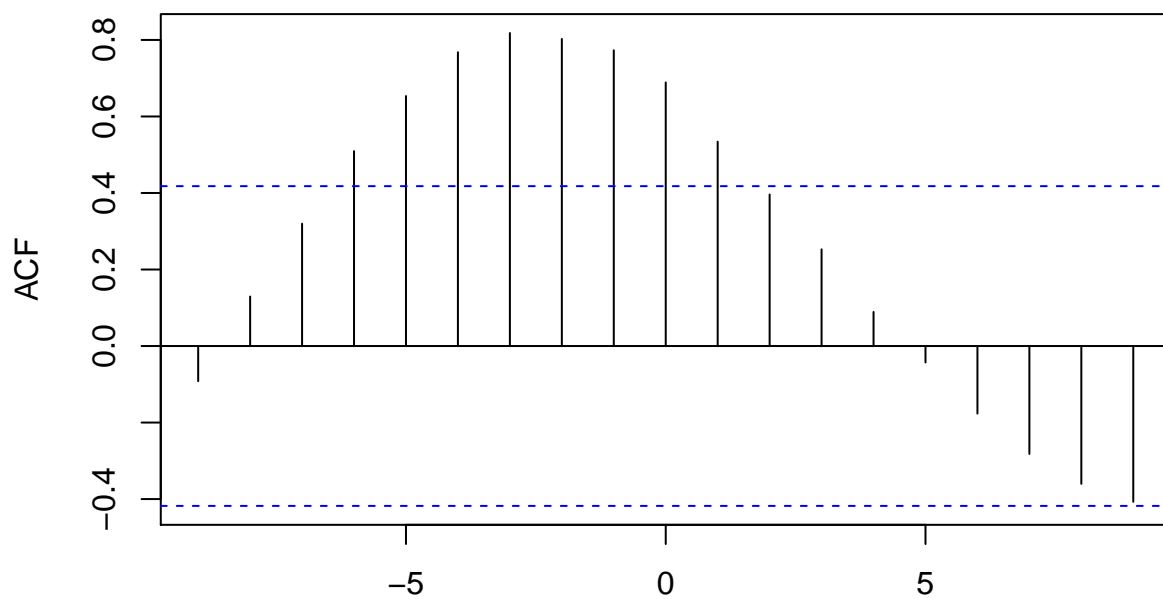


4 wk ahead – 17

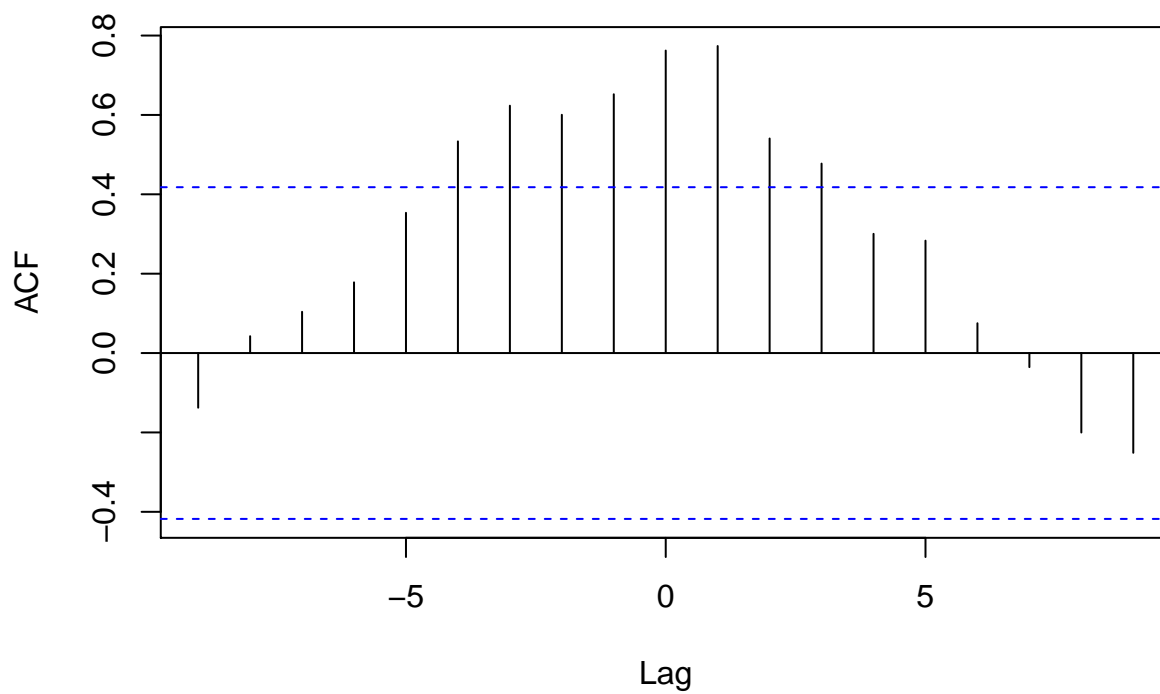




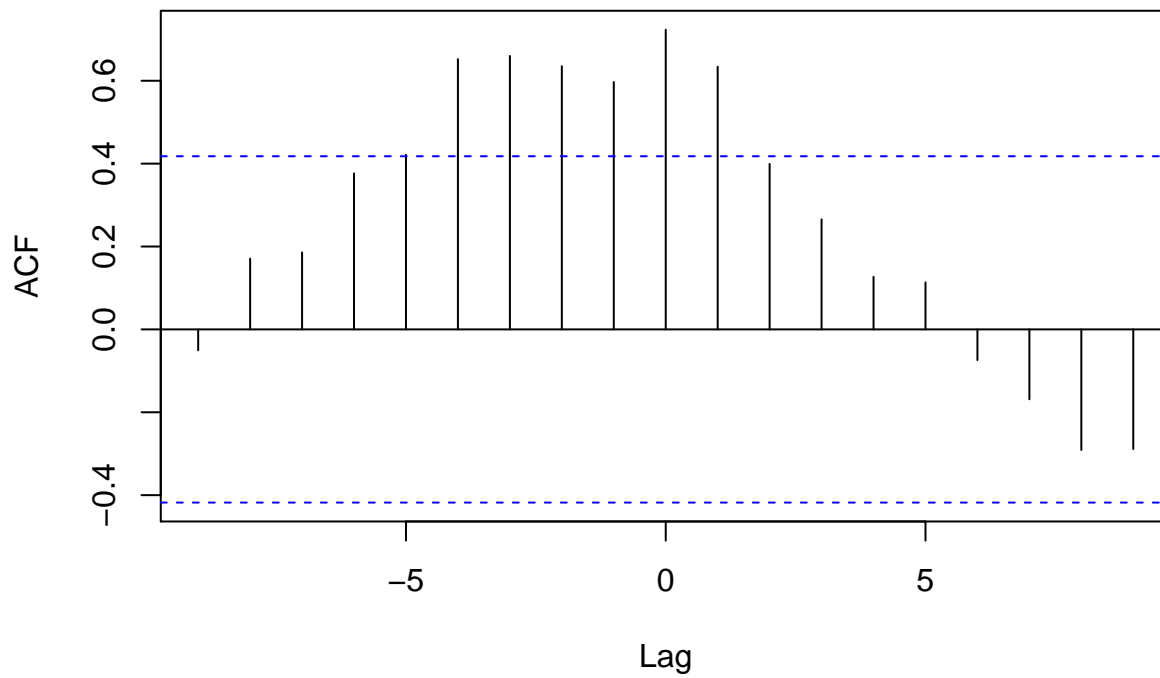
4 wk ahead – 18

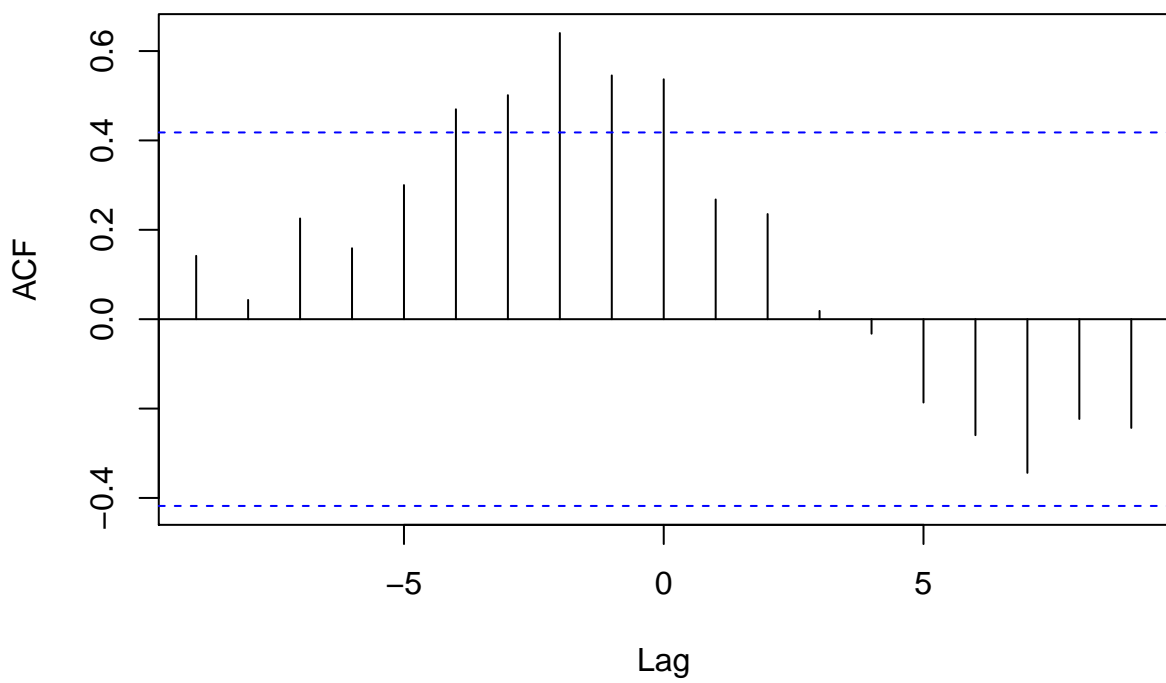
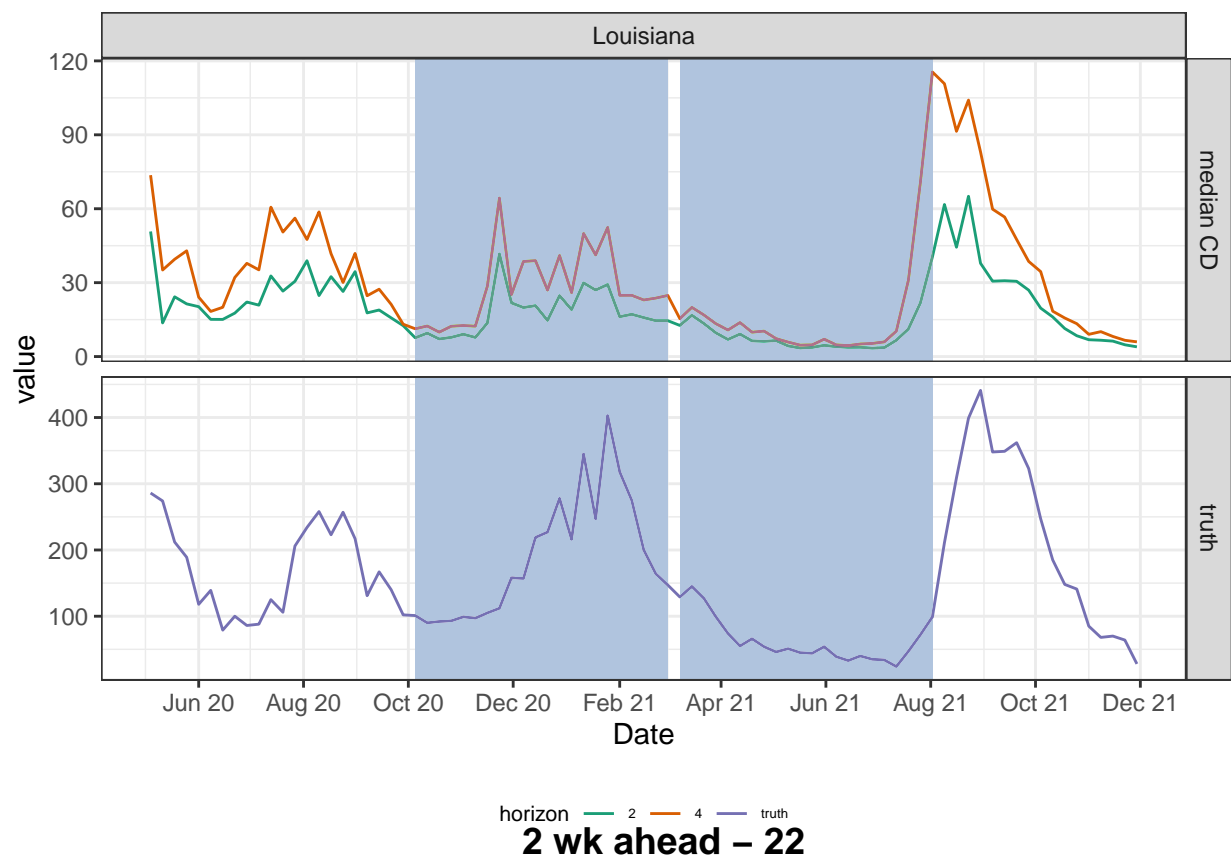


2 wk ahead – 20

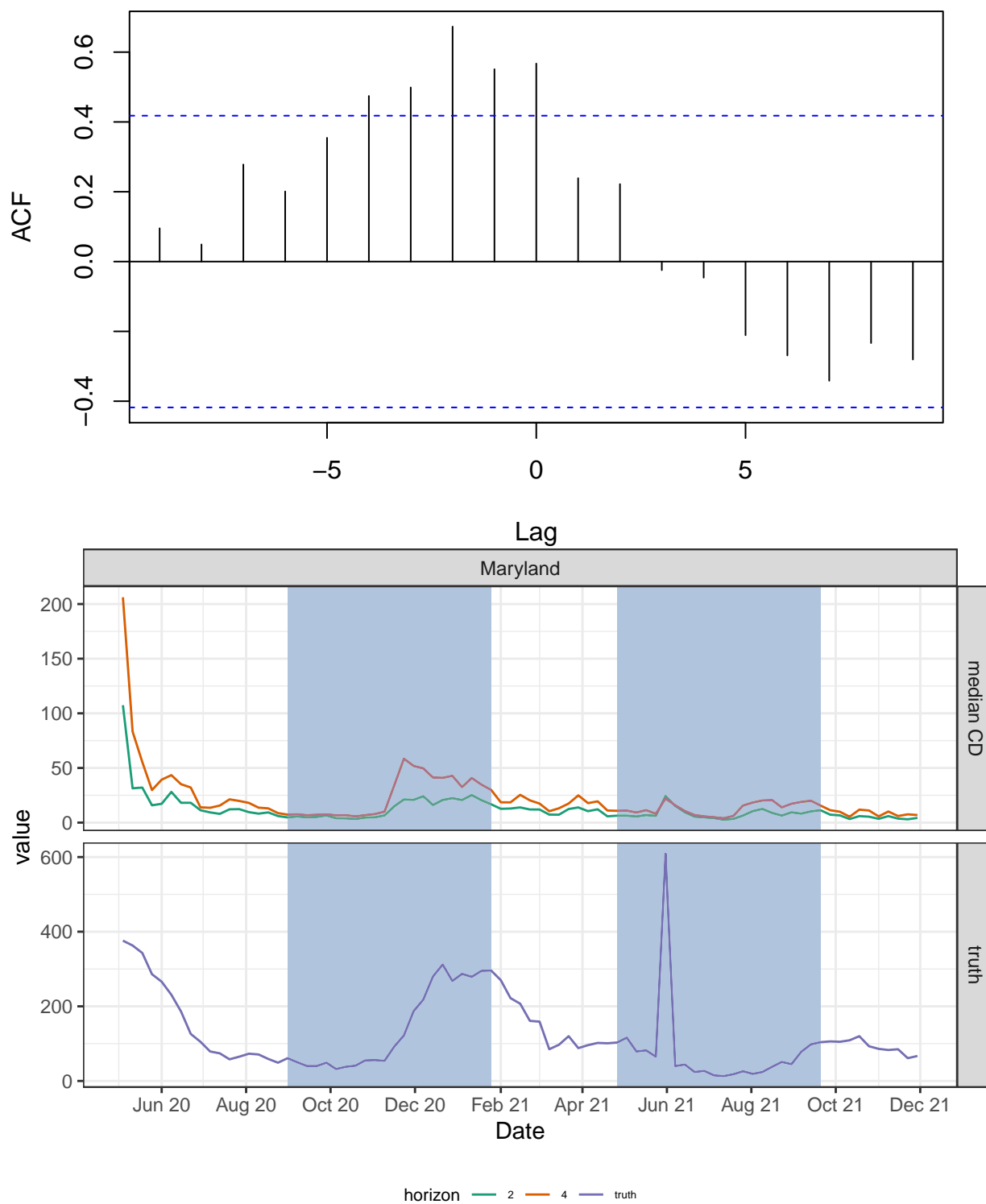


4 wk ahead – 20

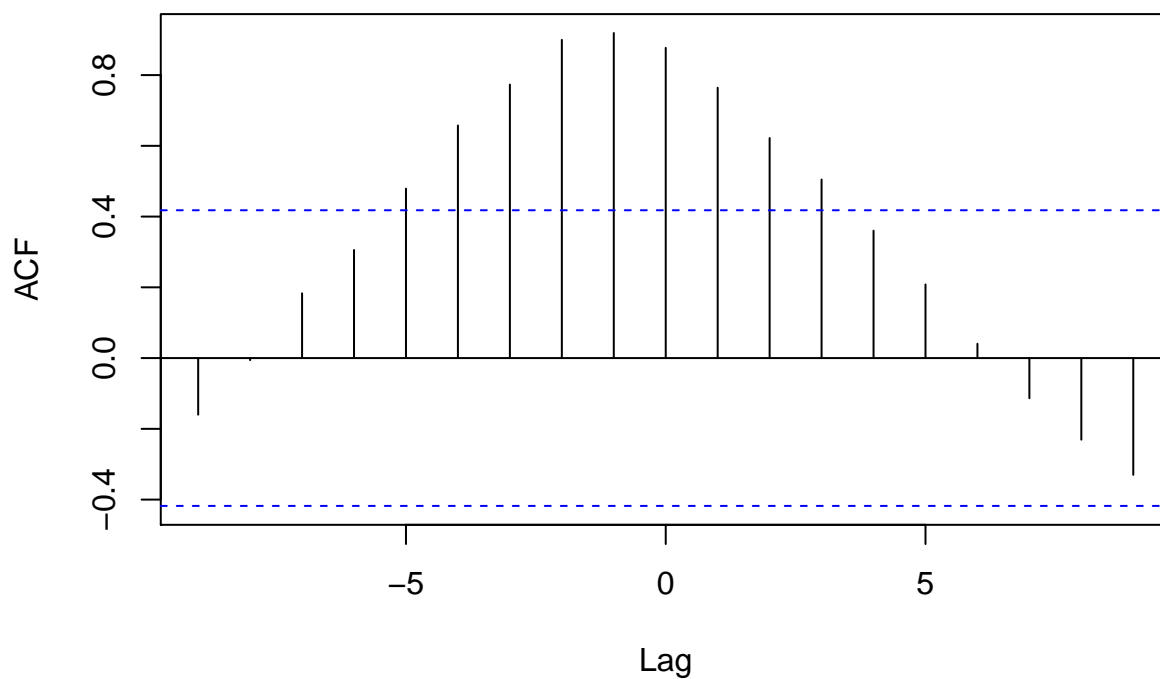




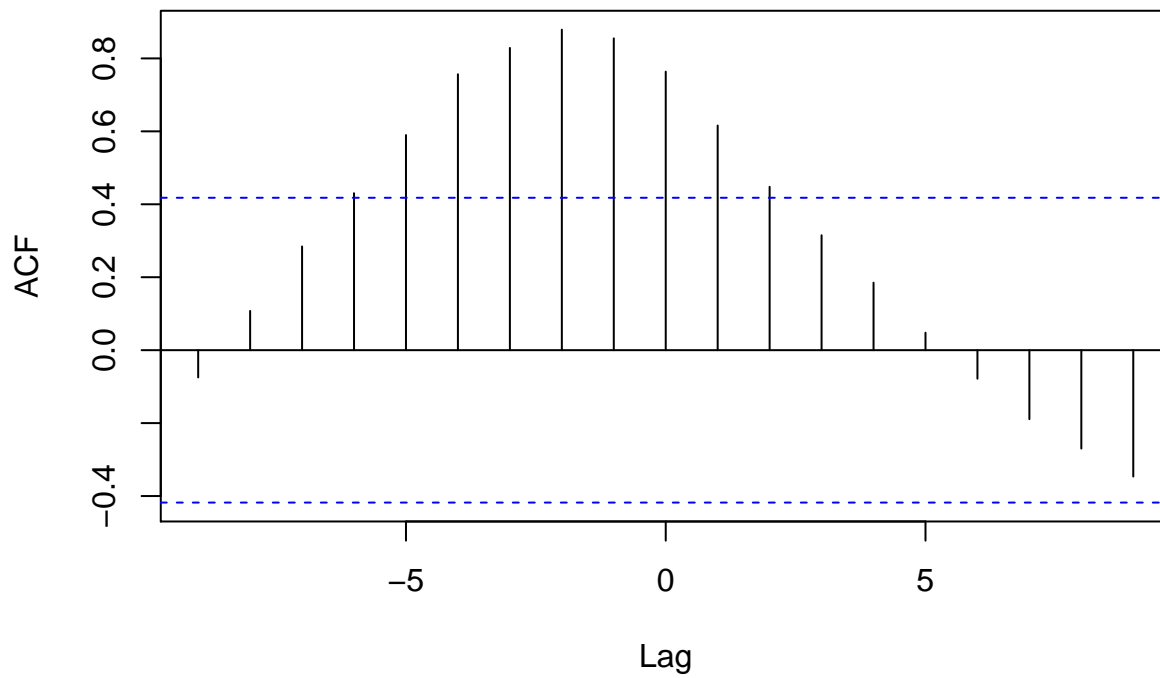
4 wk ahead – 22

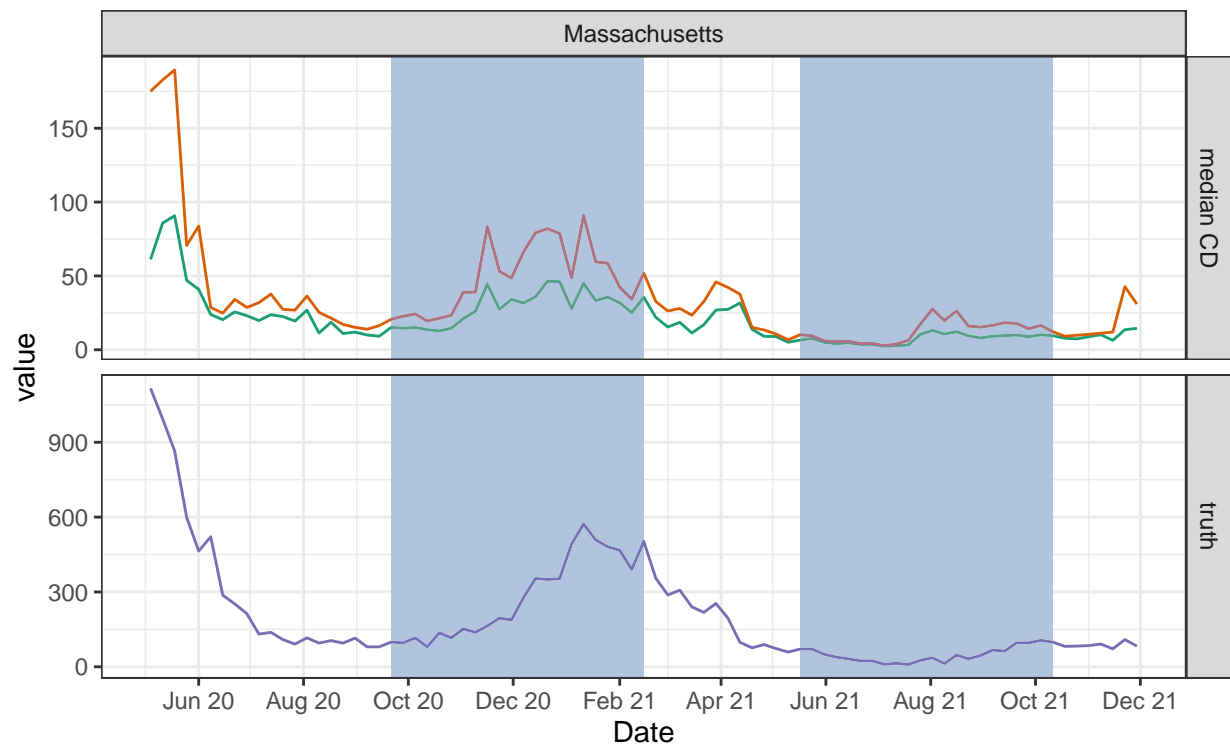


2 wk ahead – 24



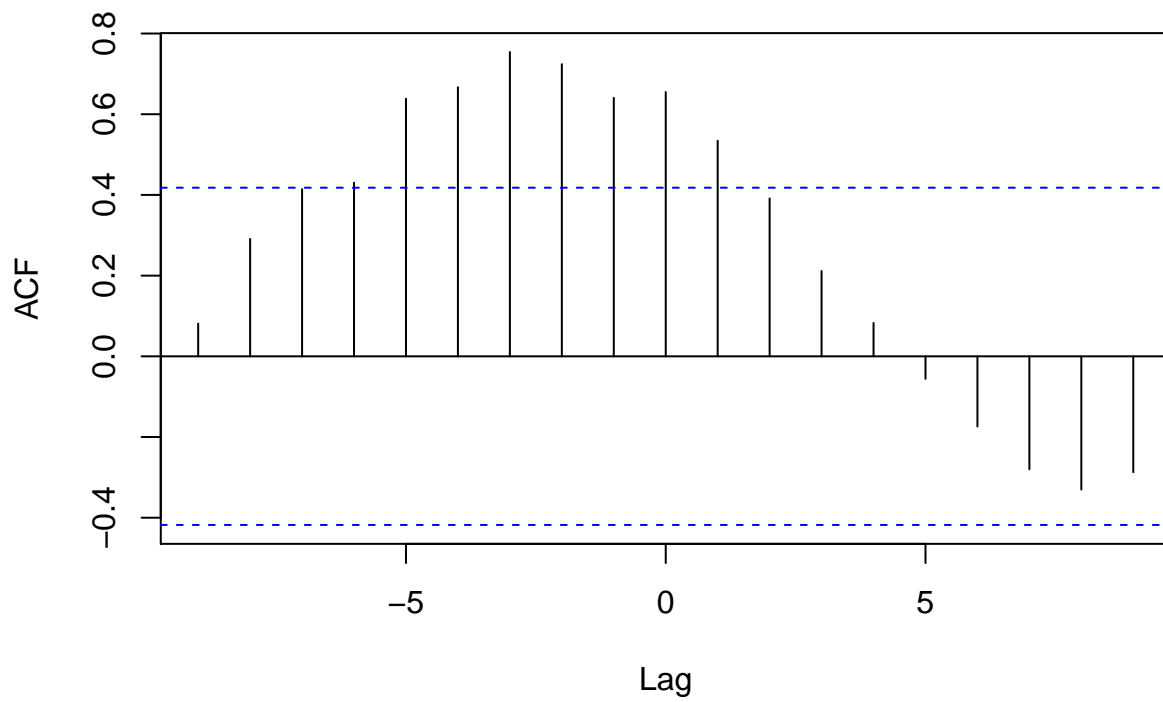
4 wk ahead – 24



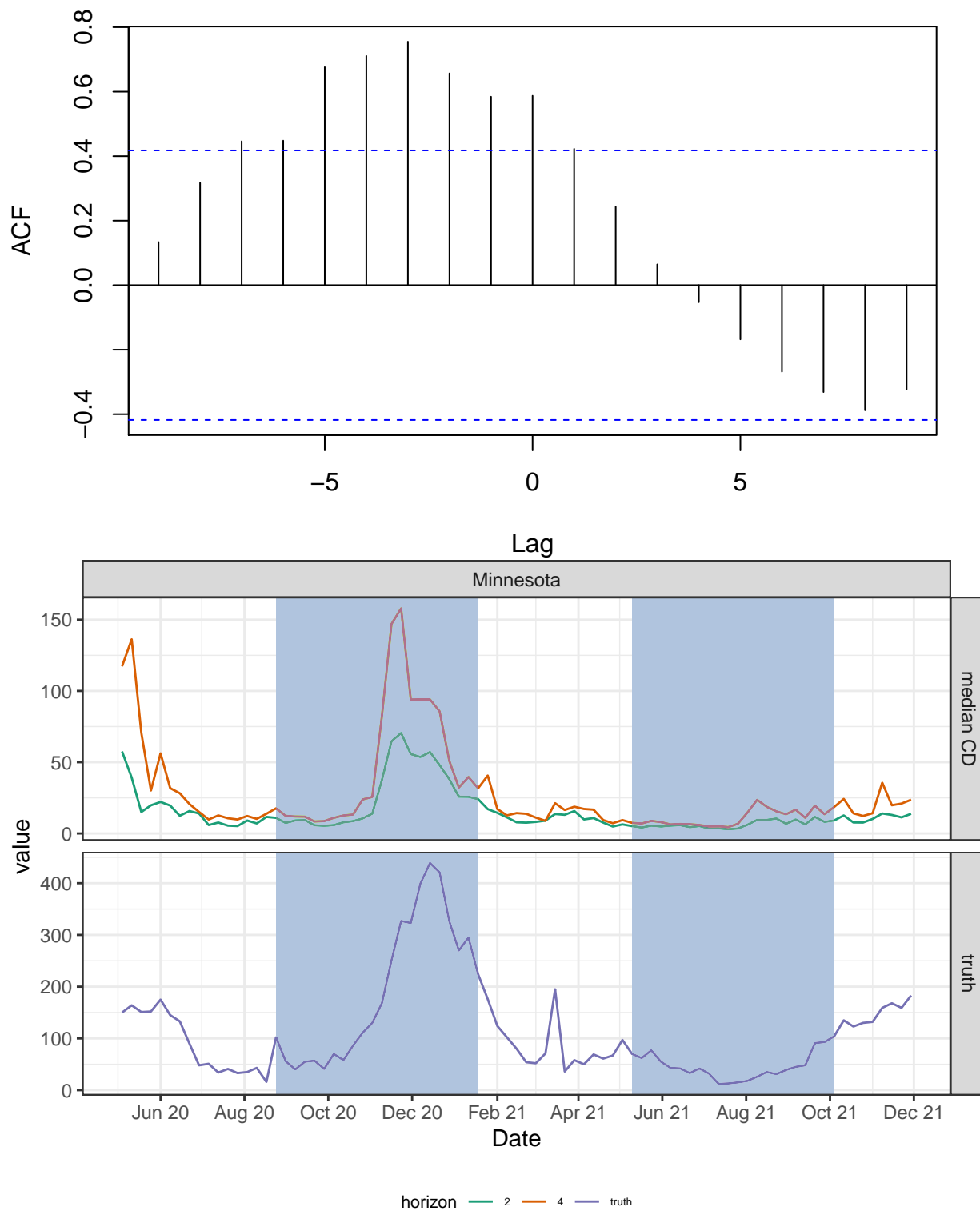


horizon — 2 — 4 — truth

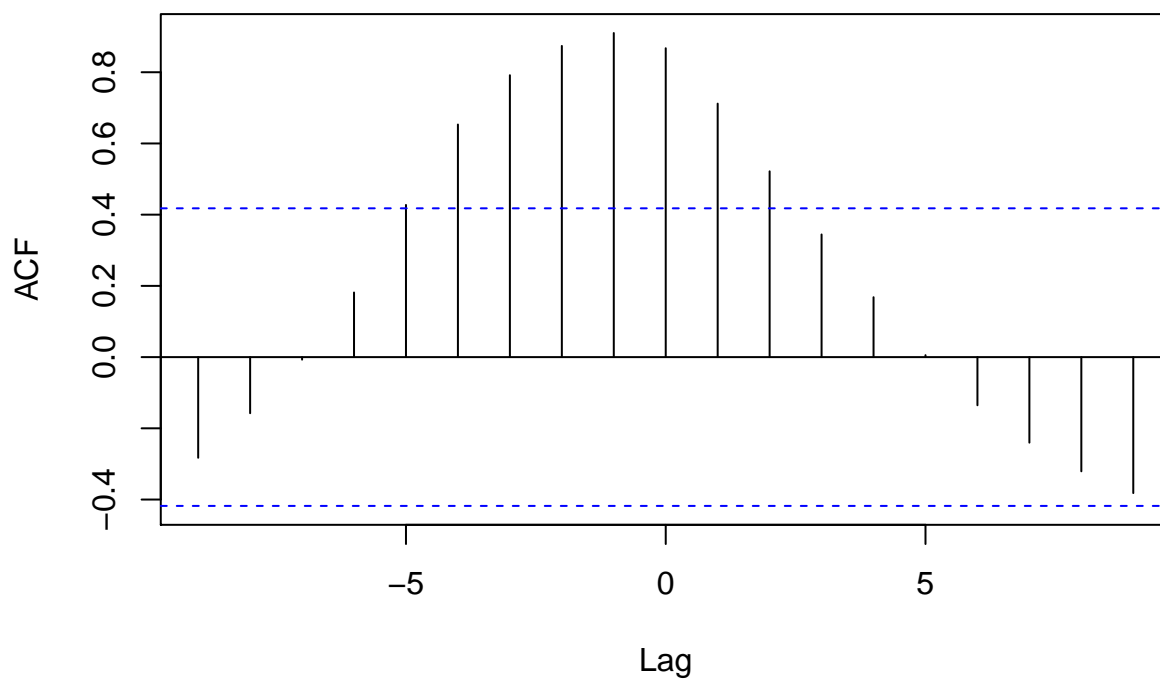
2 wk ahead – 25



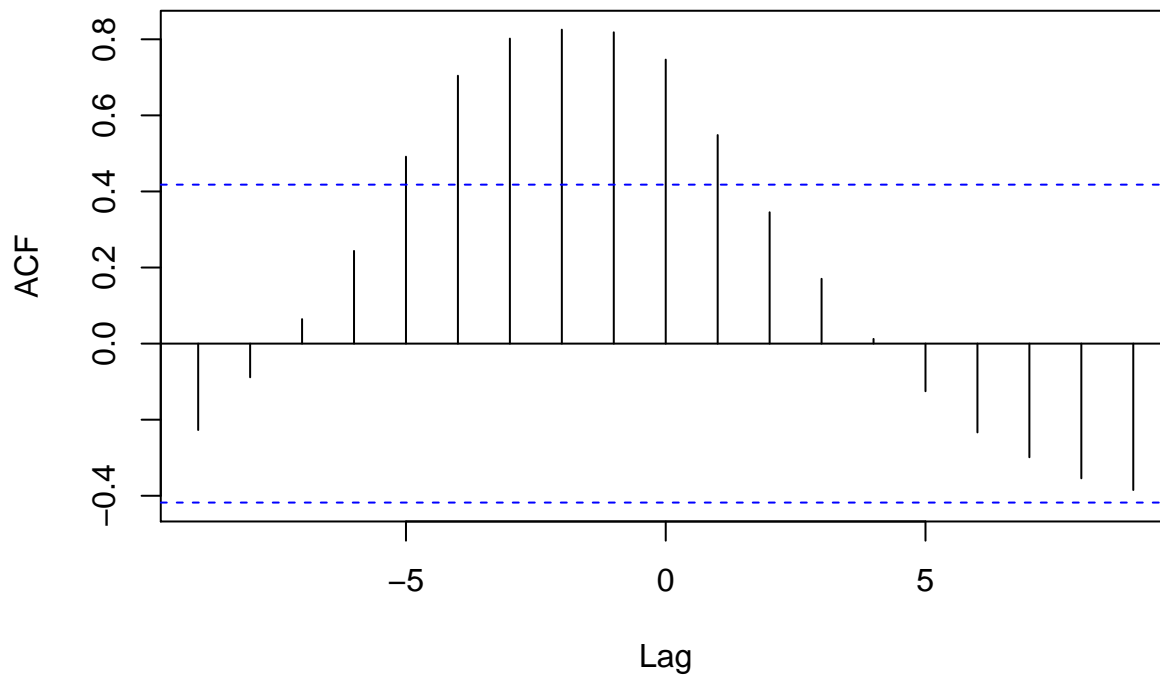
4 wk ahead – 25

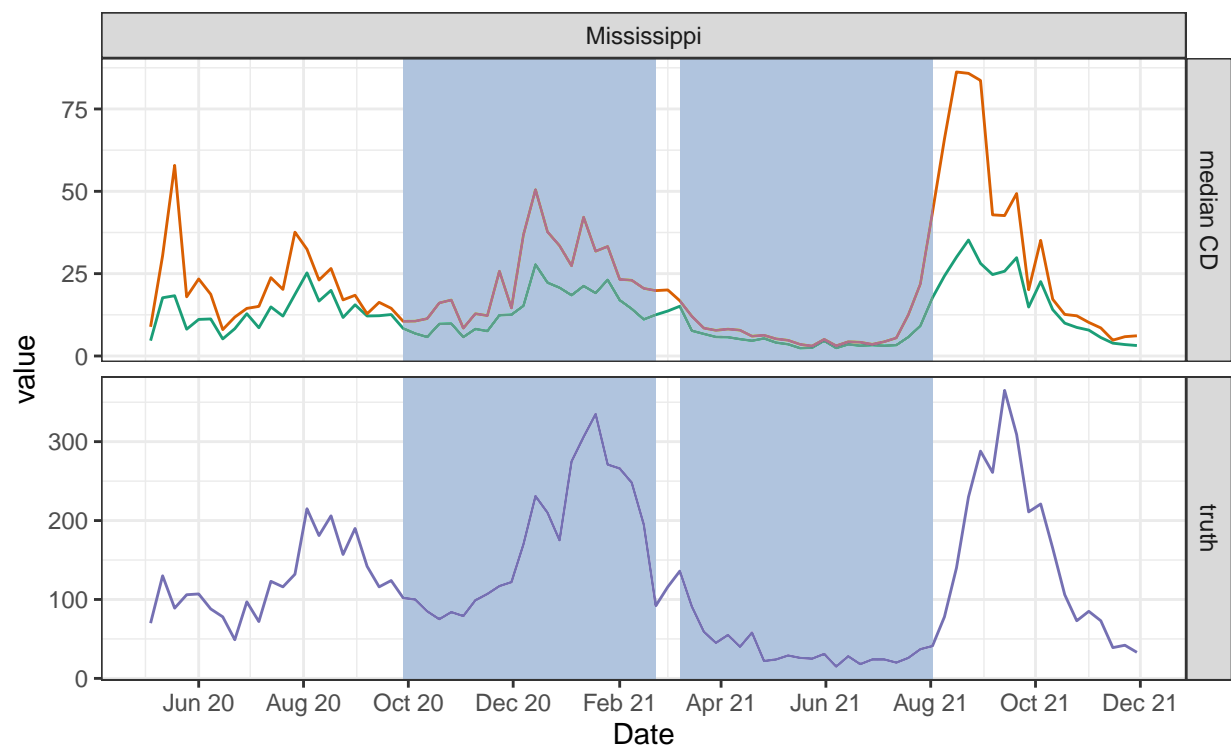


2 wk ahead – 27



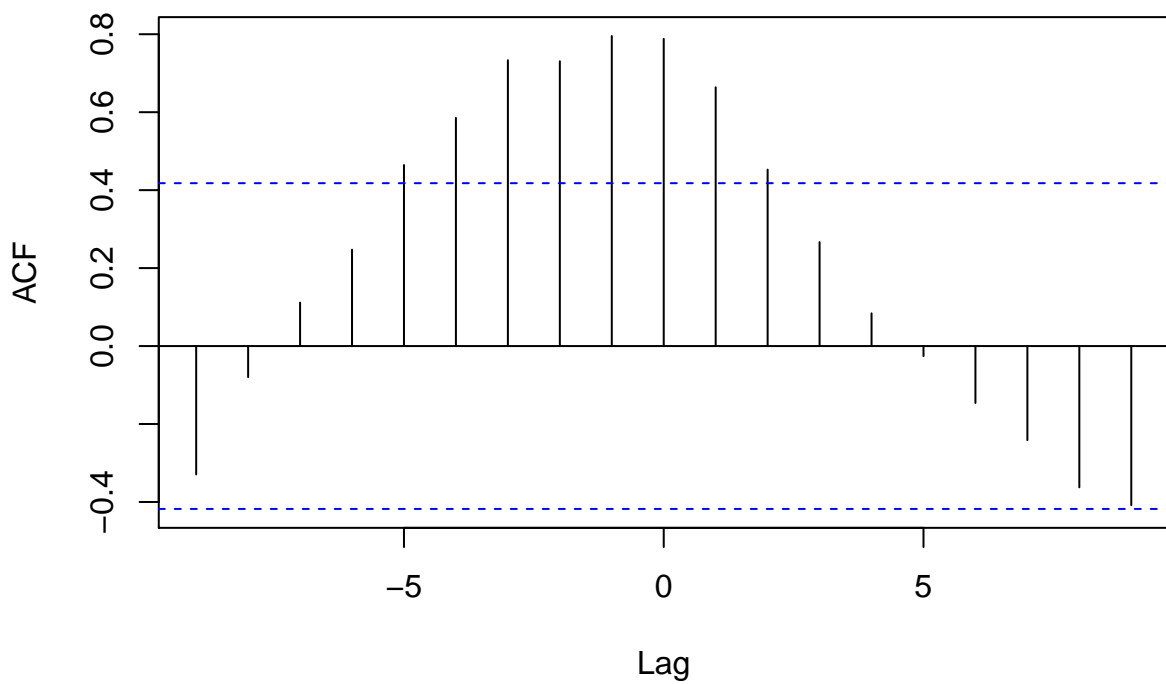
4 wk ahead – 27



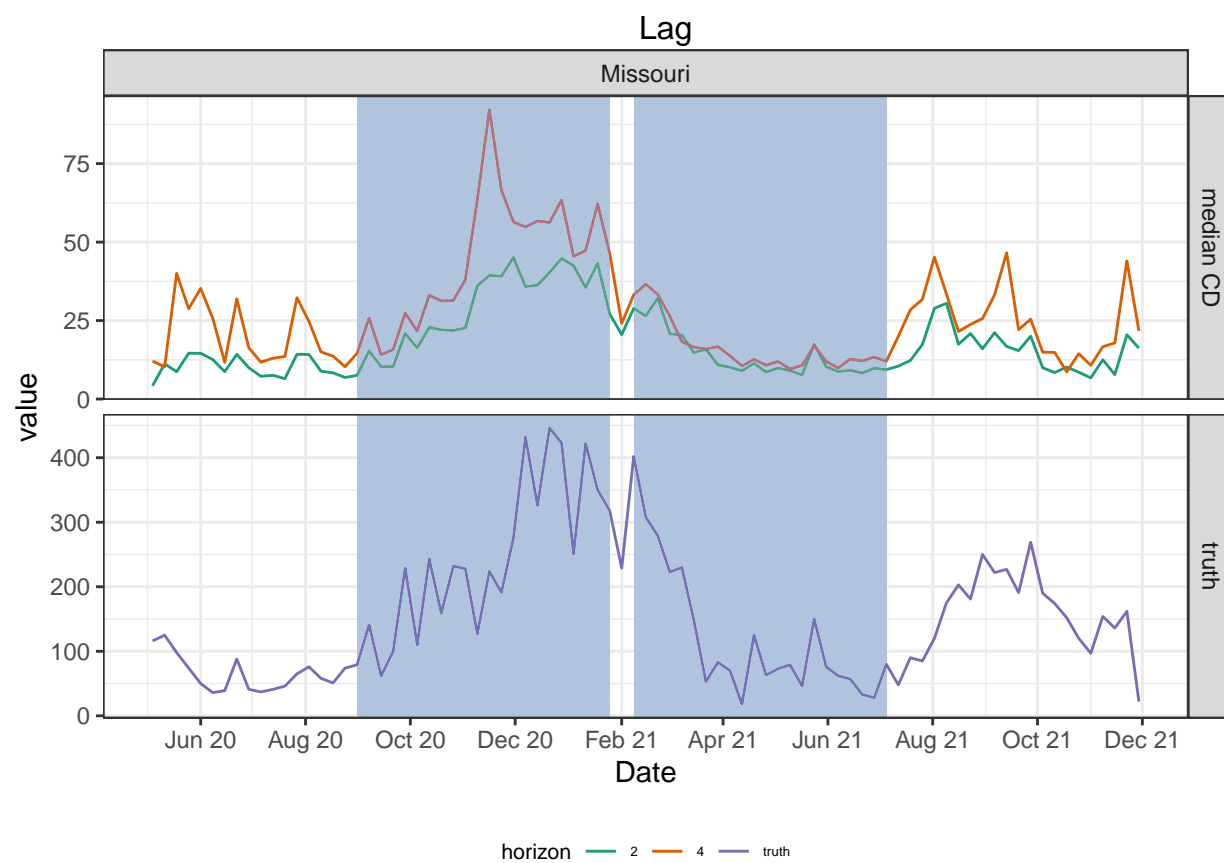
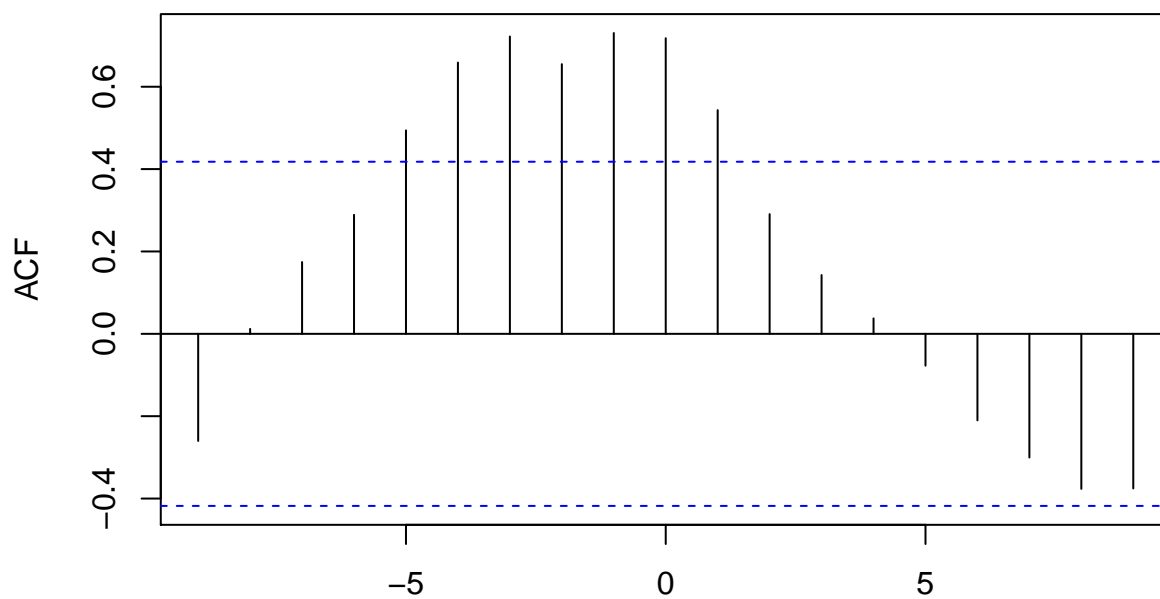


horizon — 2 — 4 — truth

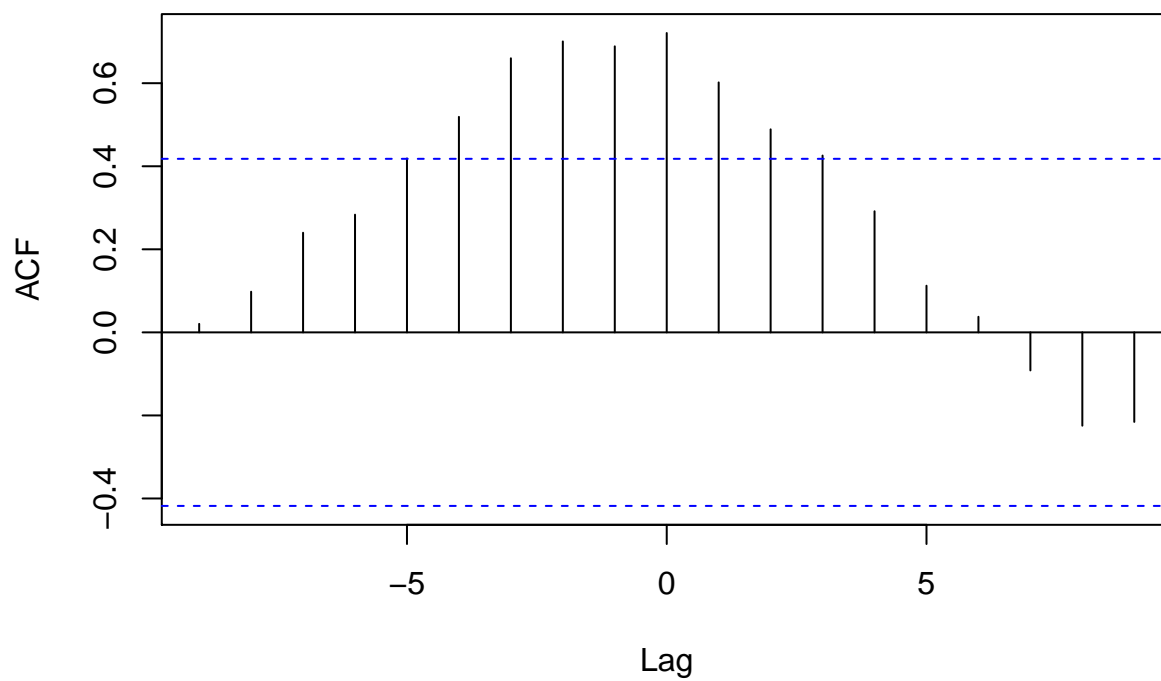
2 wk ahead – 28



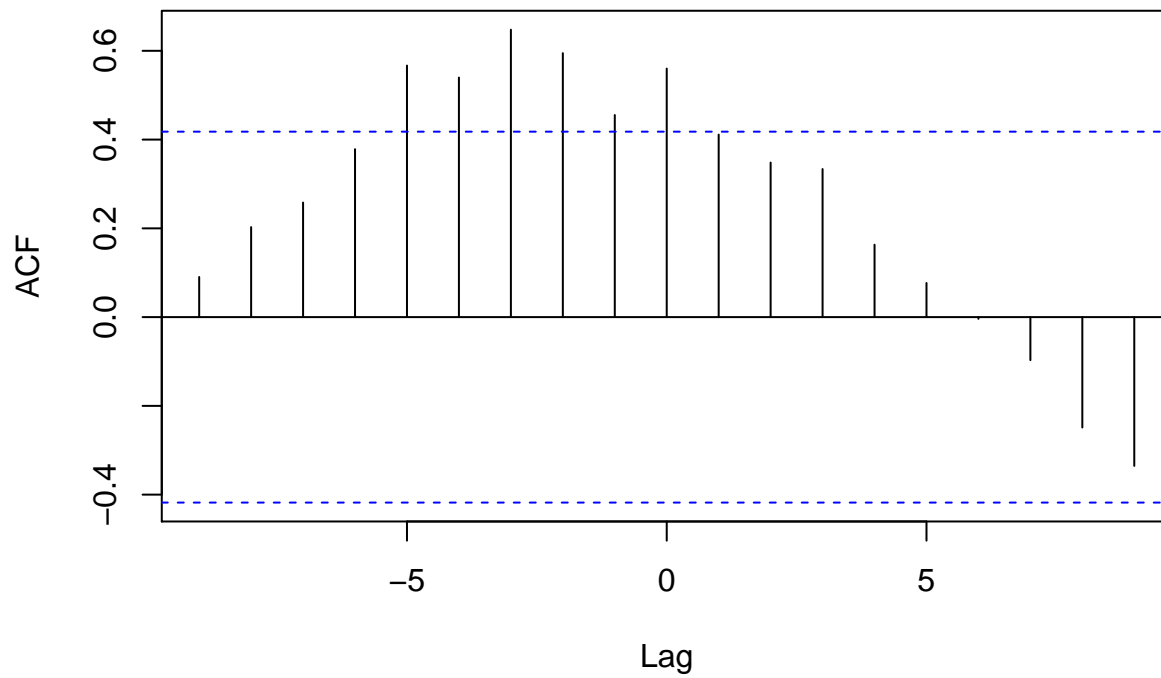
4 wk ahead – 28

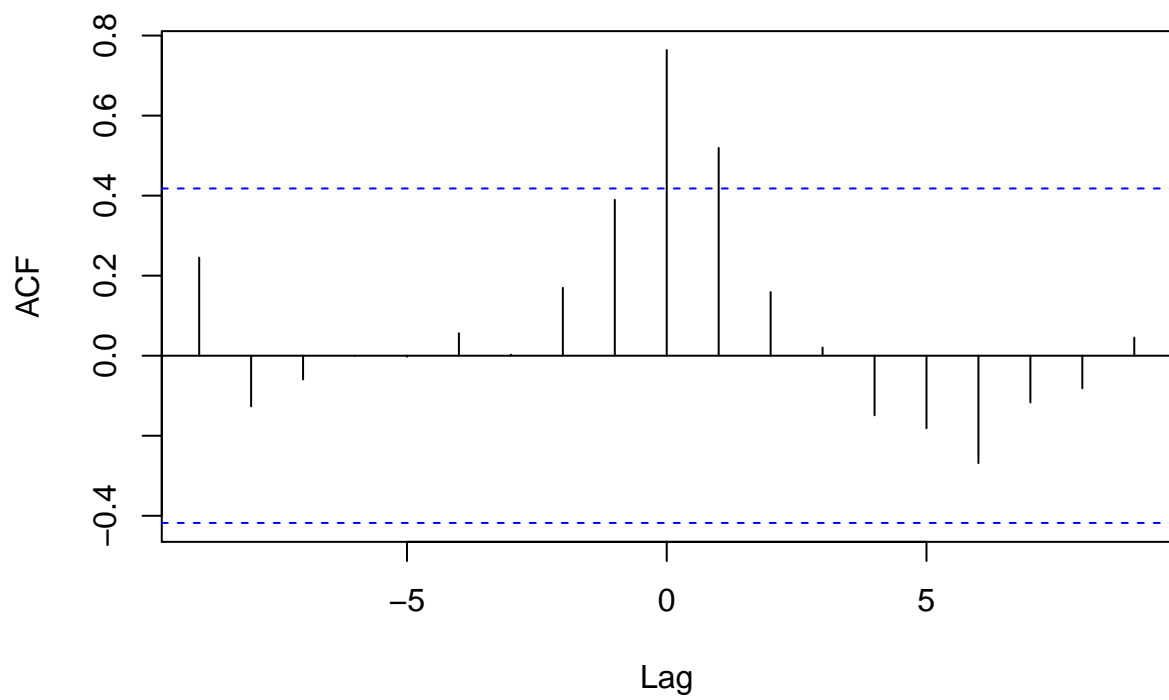
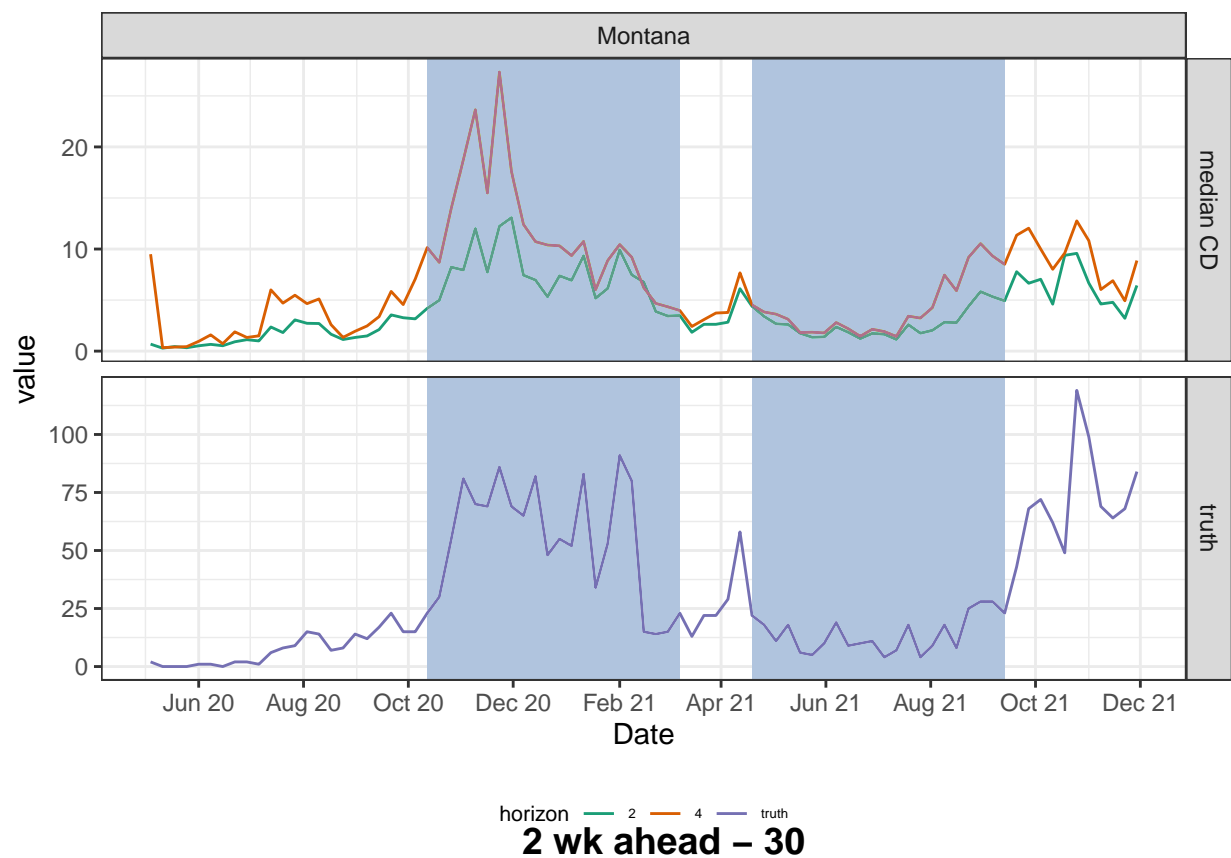


2 wk ahead – 29

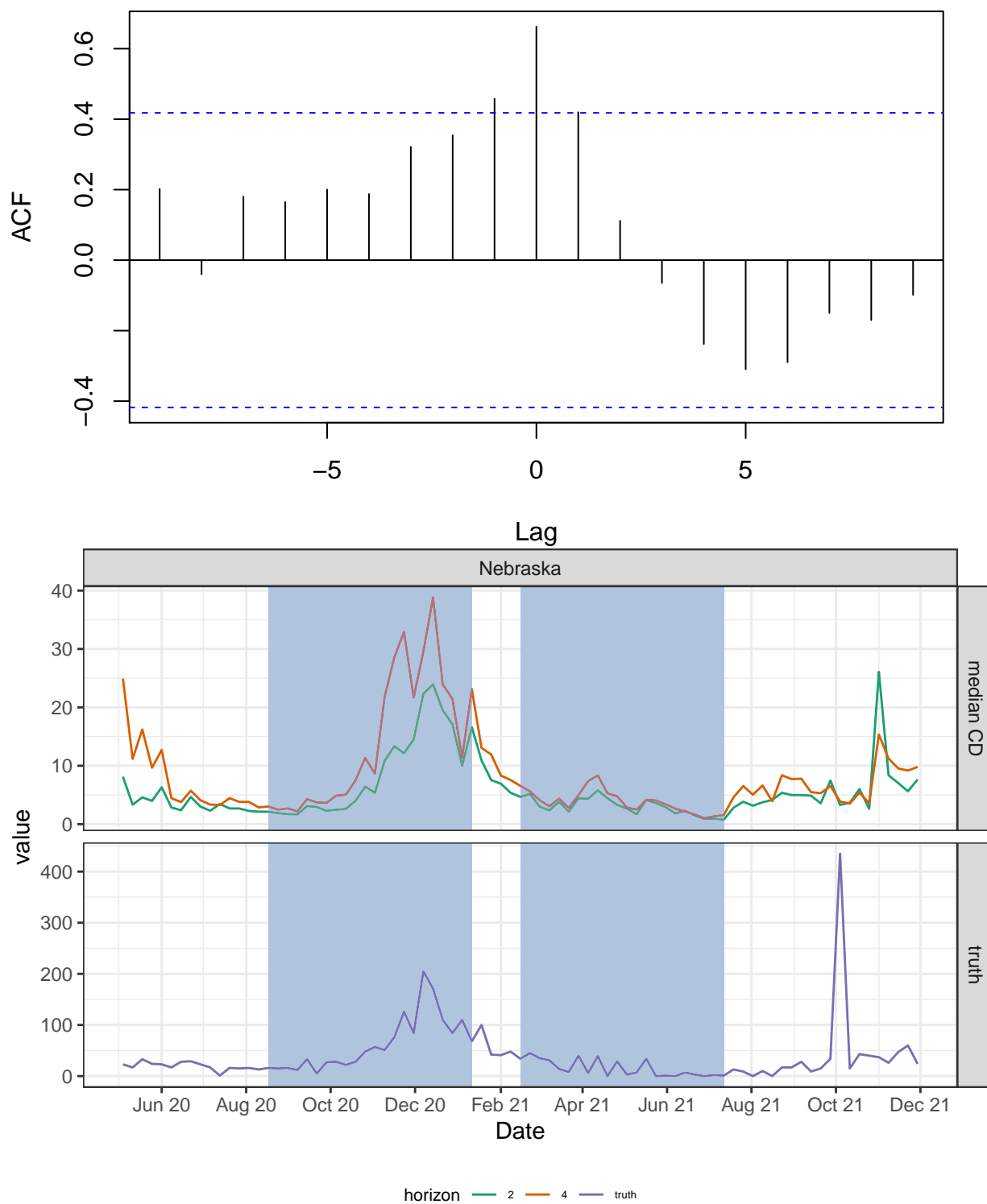


4 wk ahead – 29

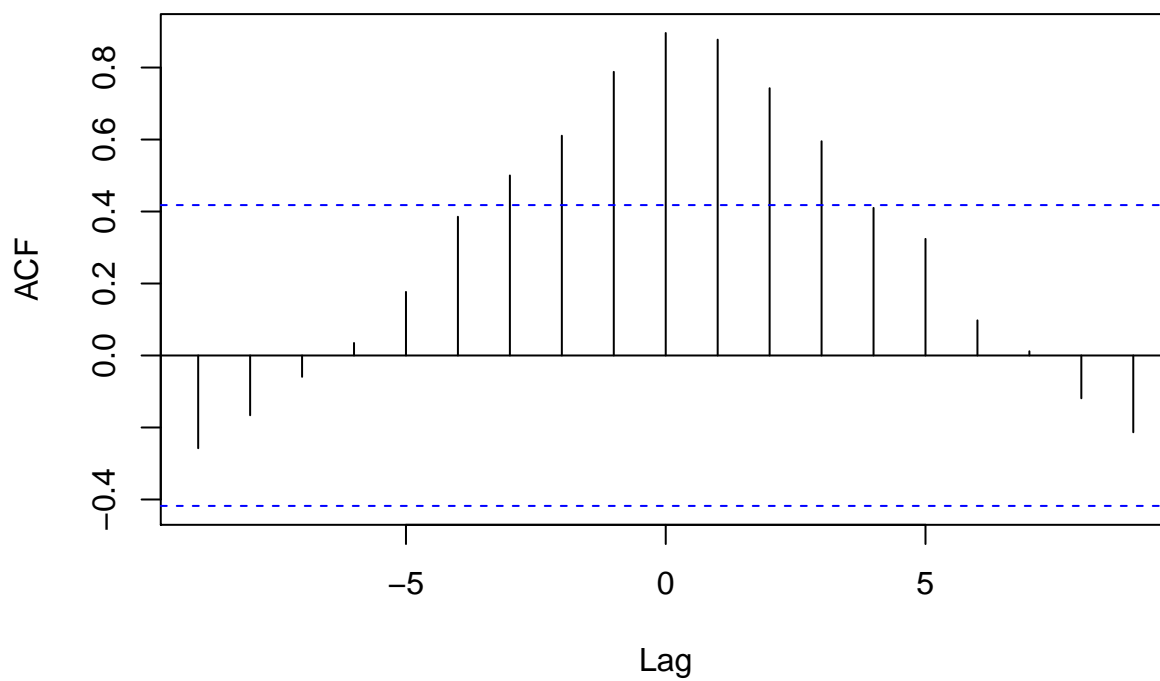




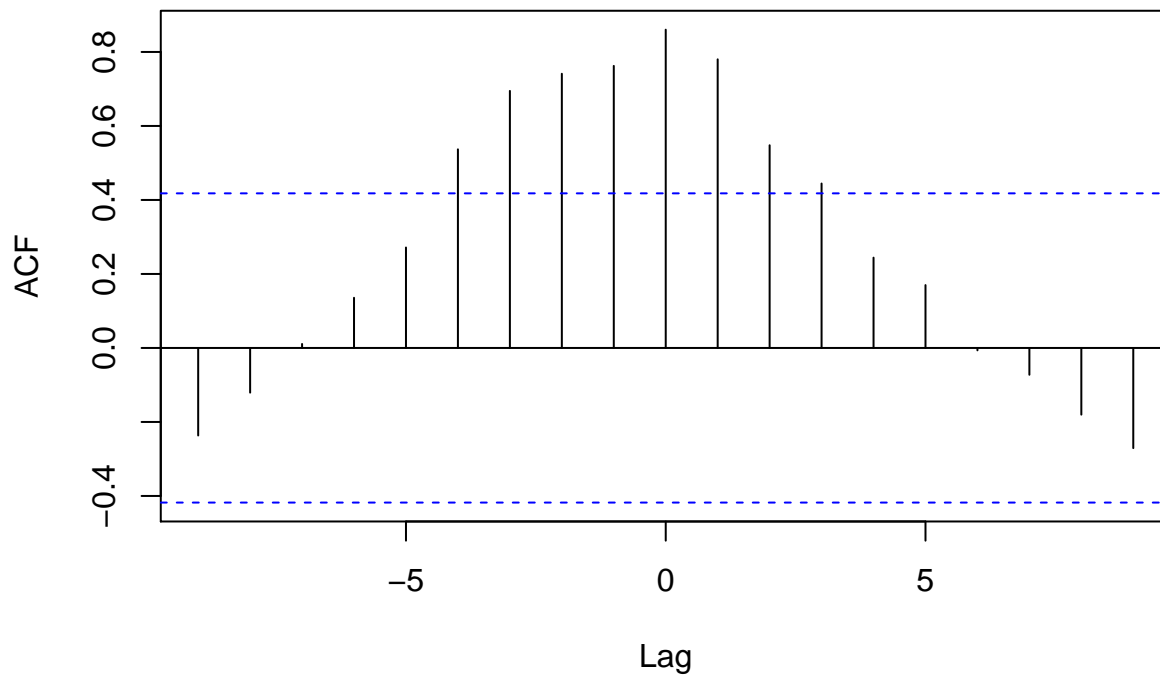
4 wk ahead – 30

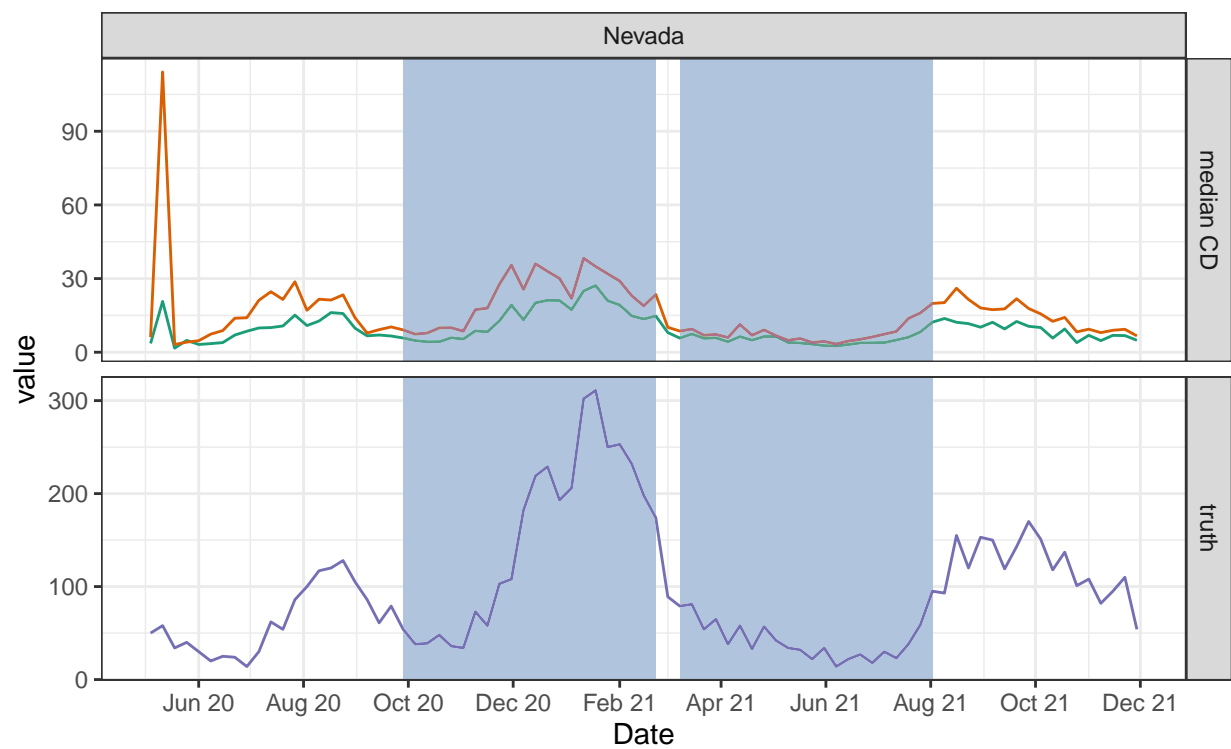


2 wk ahead – 31



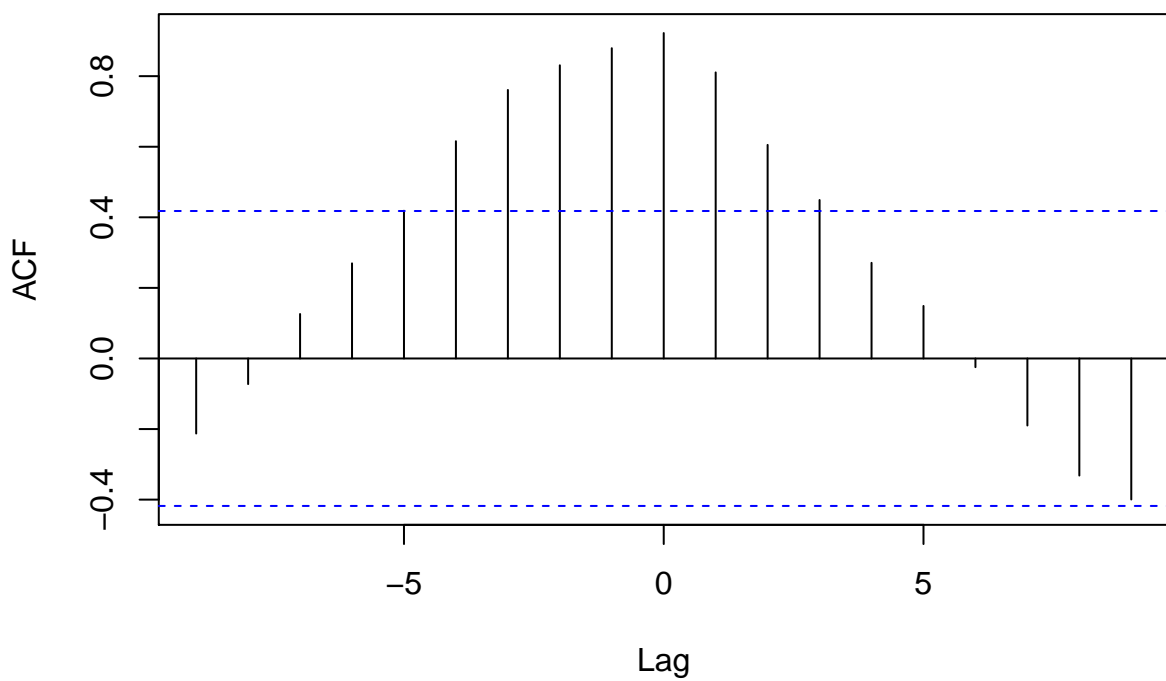
4 wk ahead – 31



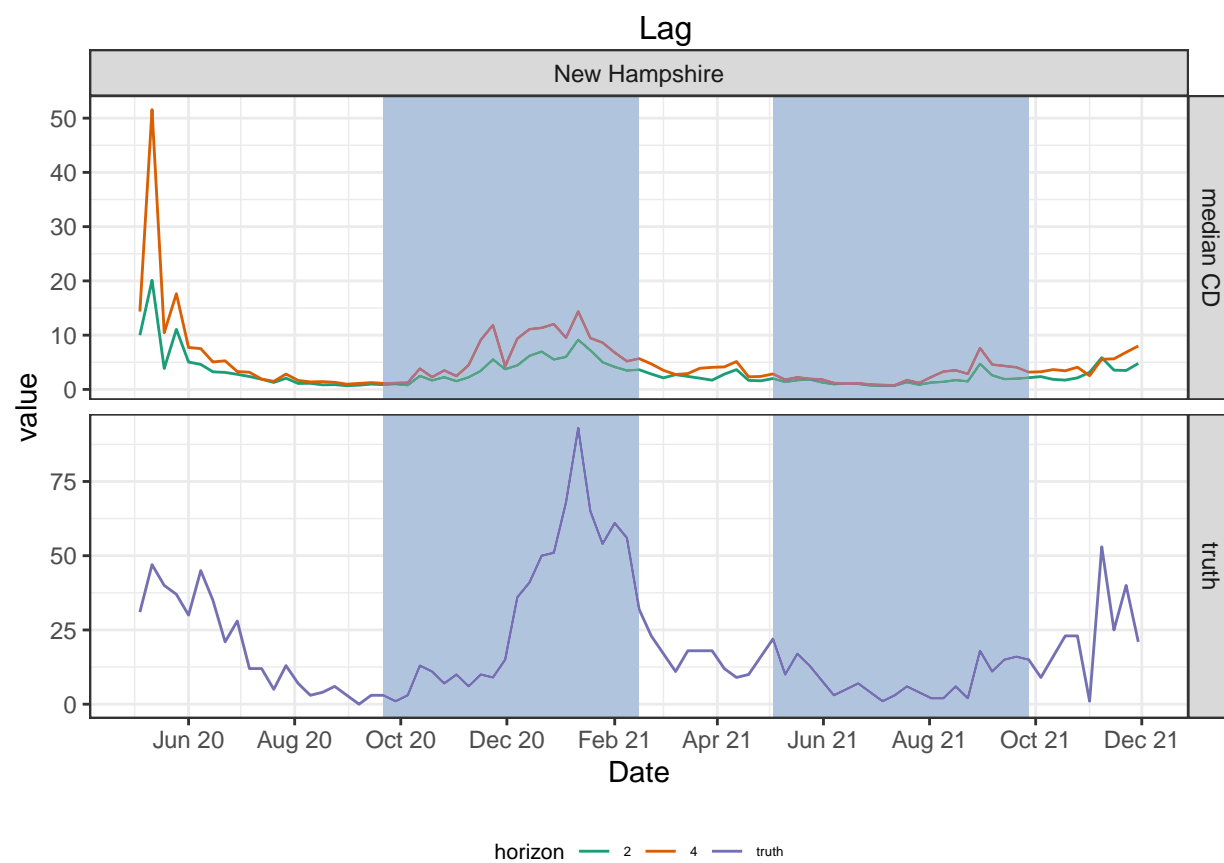
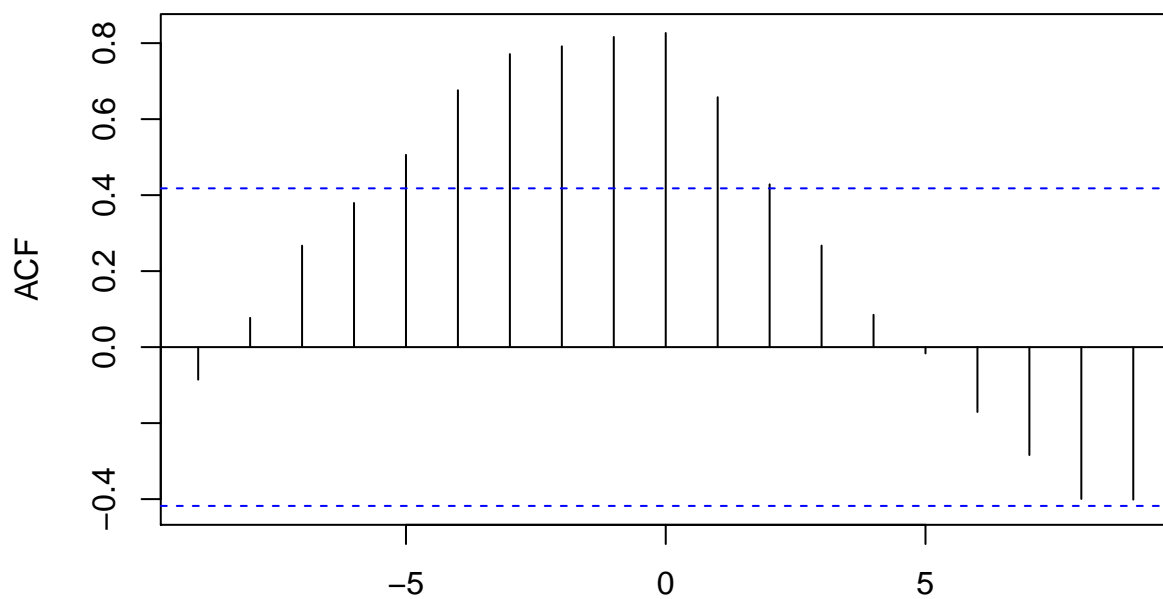


horizon — 2 — 4 — truth

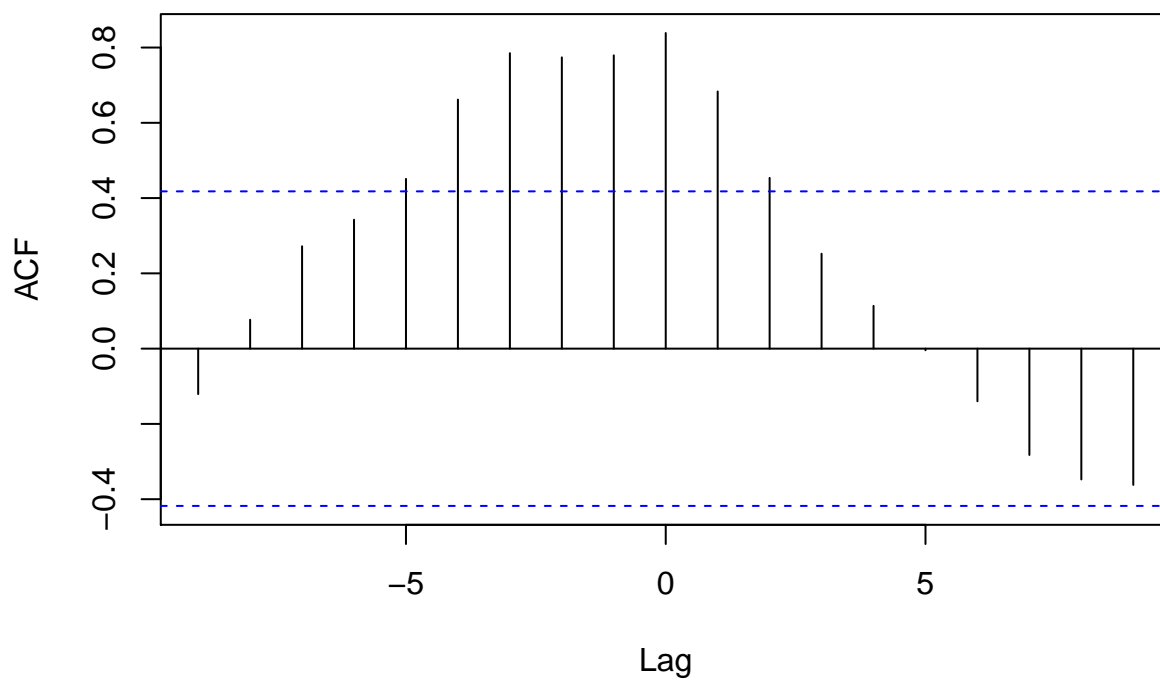
2 wk ahead – 32



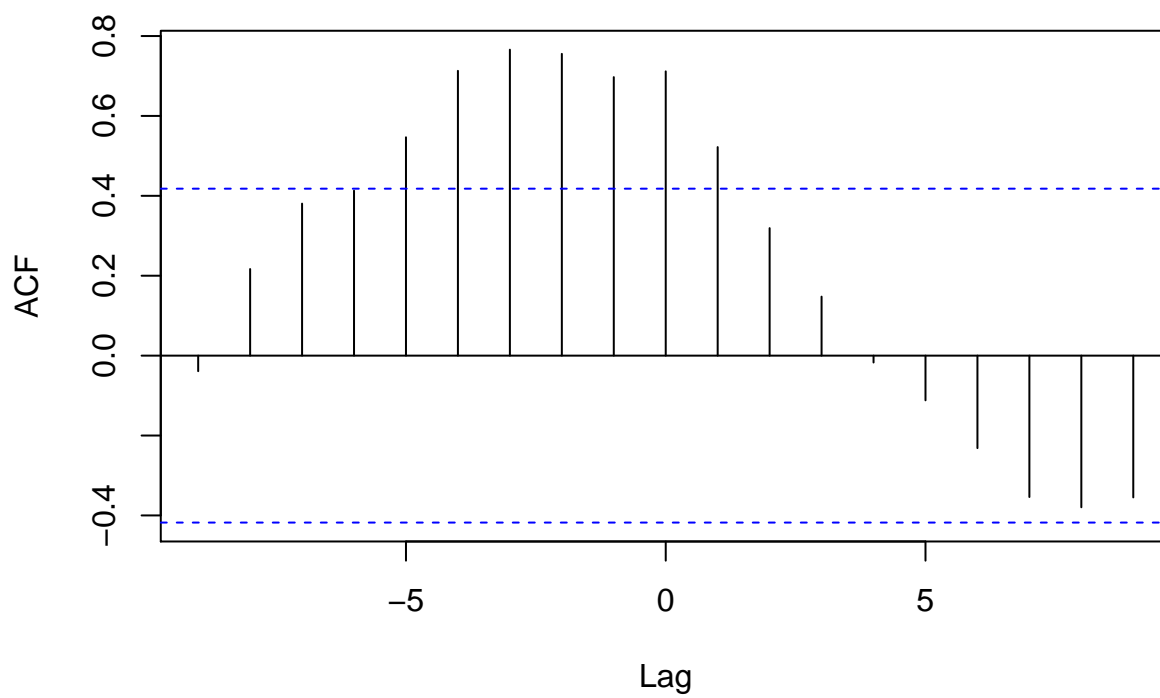
4 wk ahead – 32

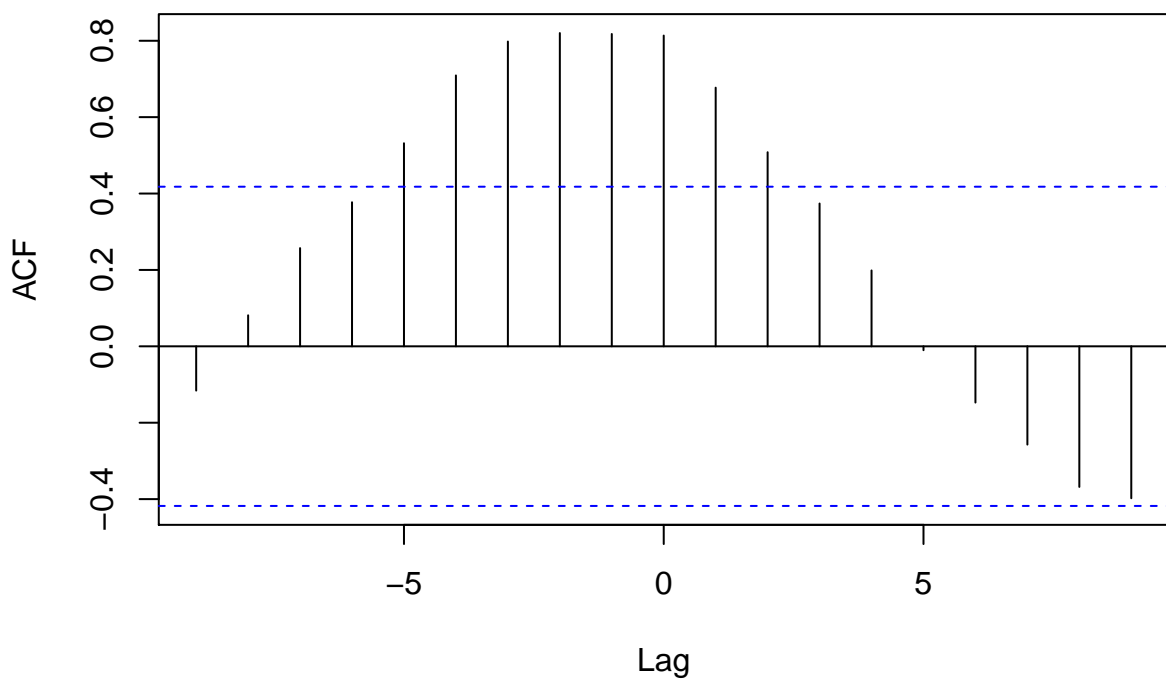
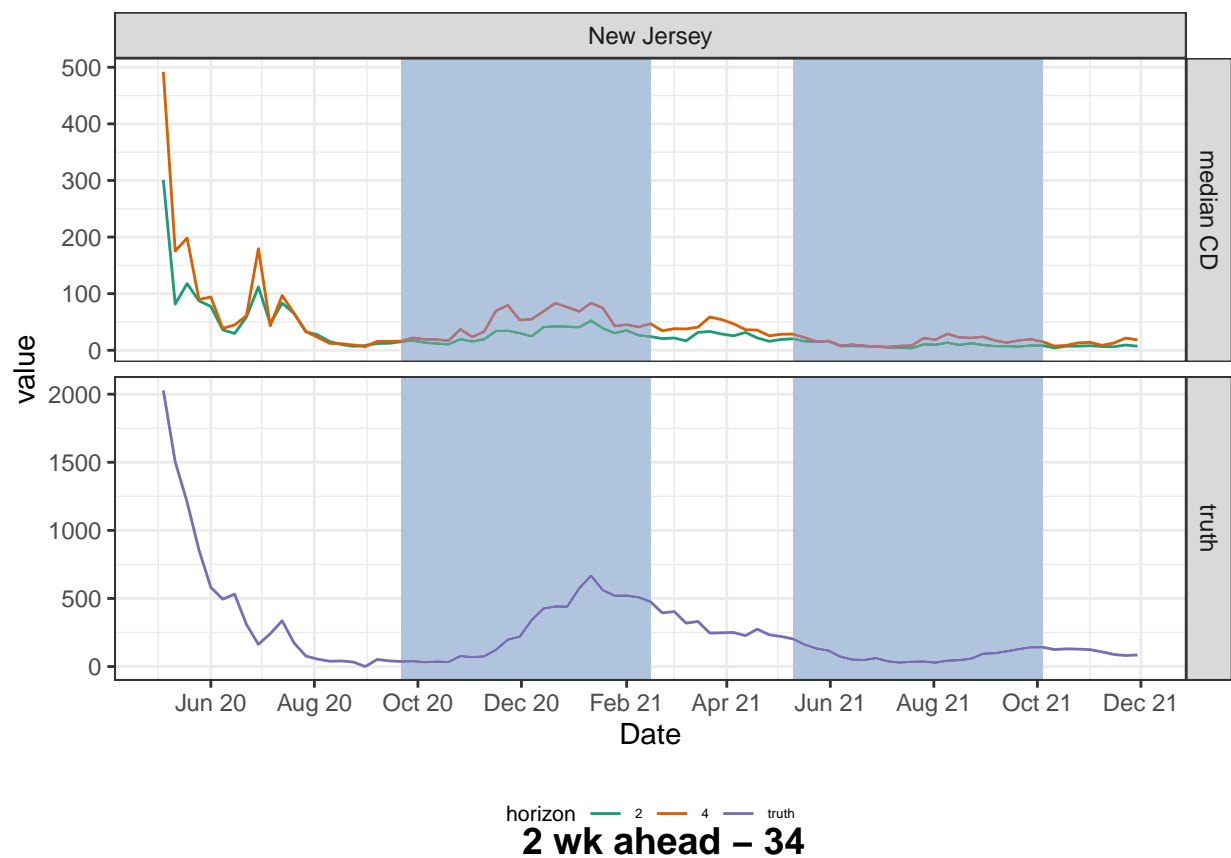


2 wk ahead – 33

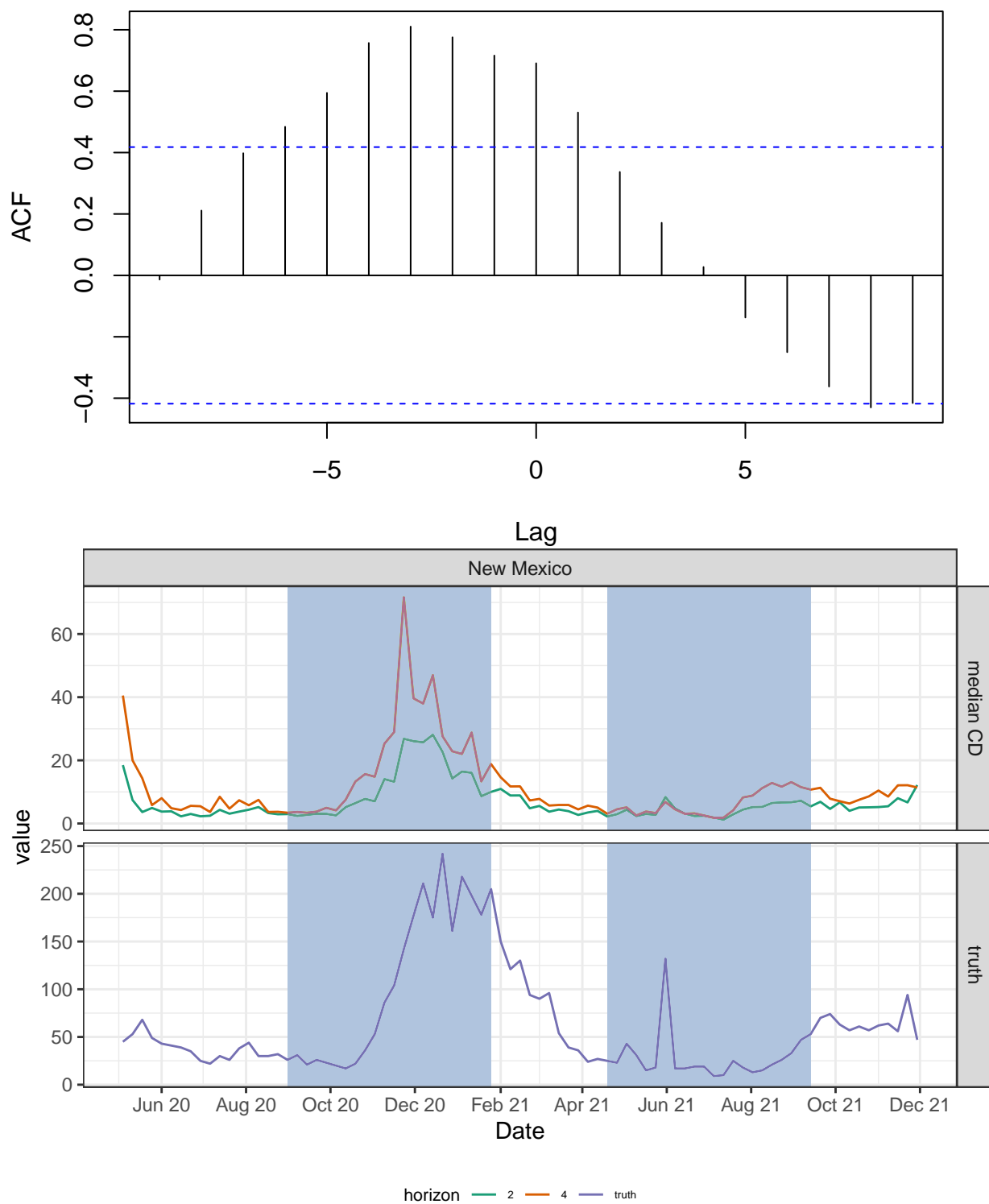


4 wk ahead – 33

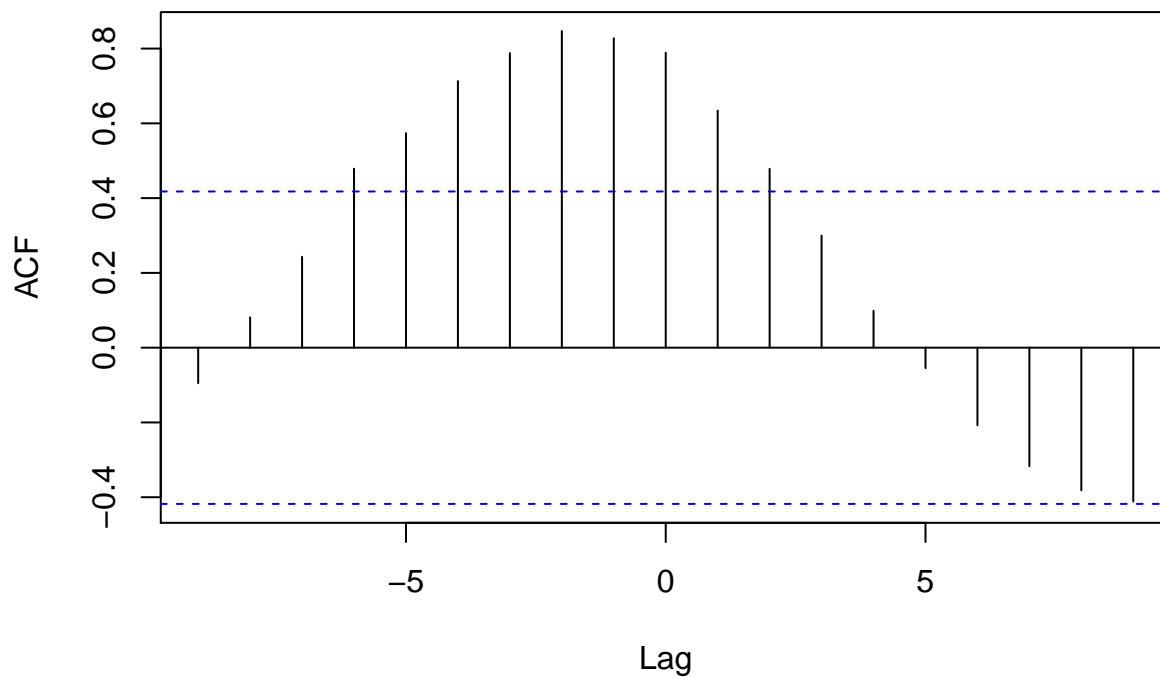




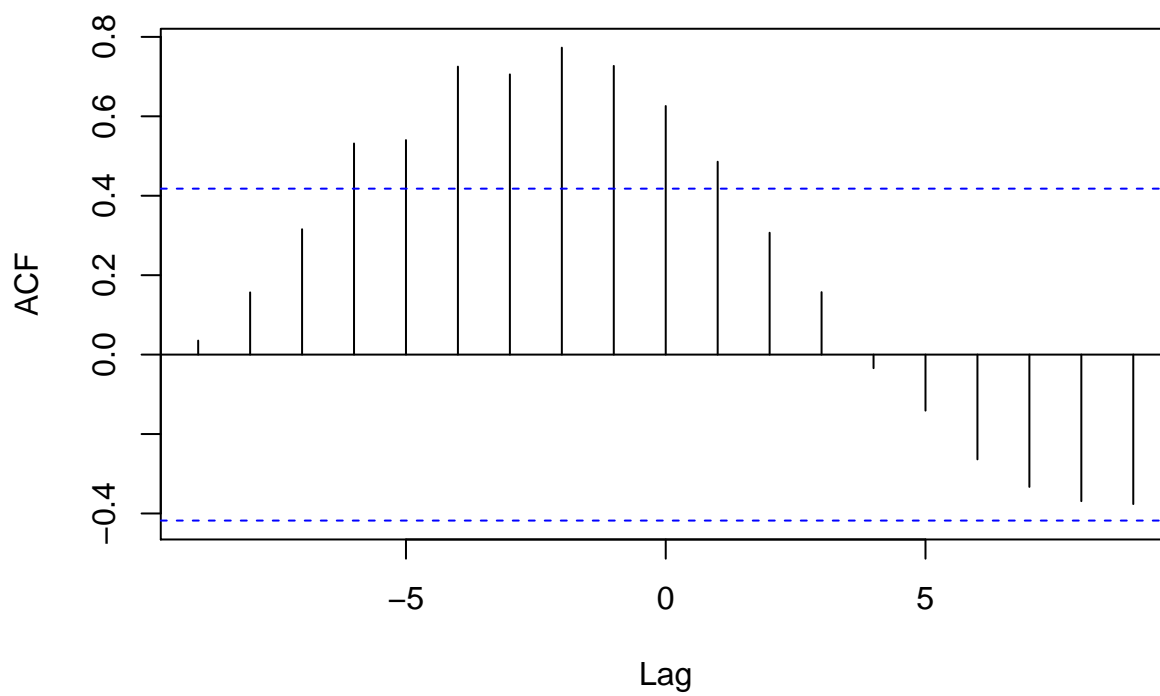
4 wk ahead – 34

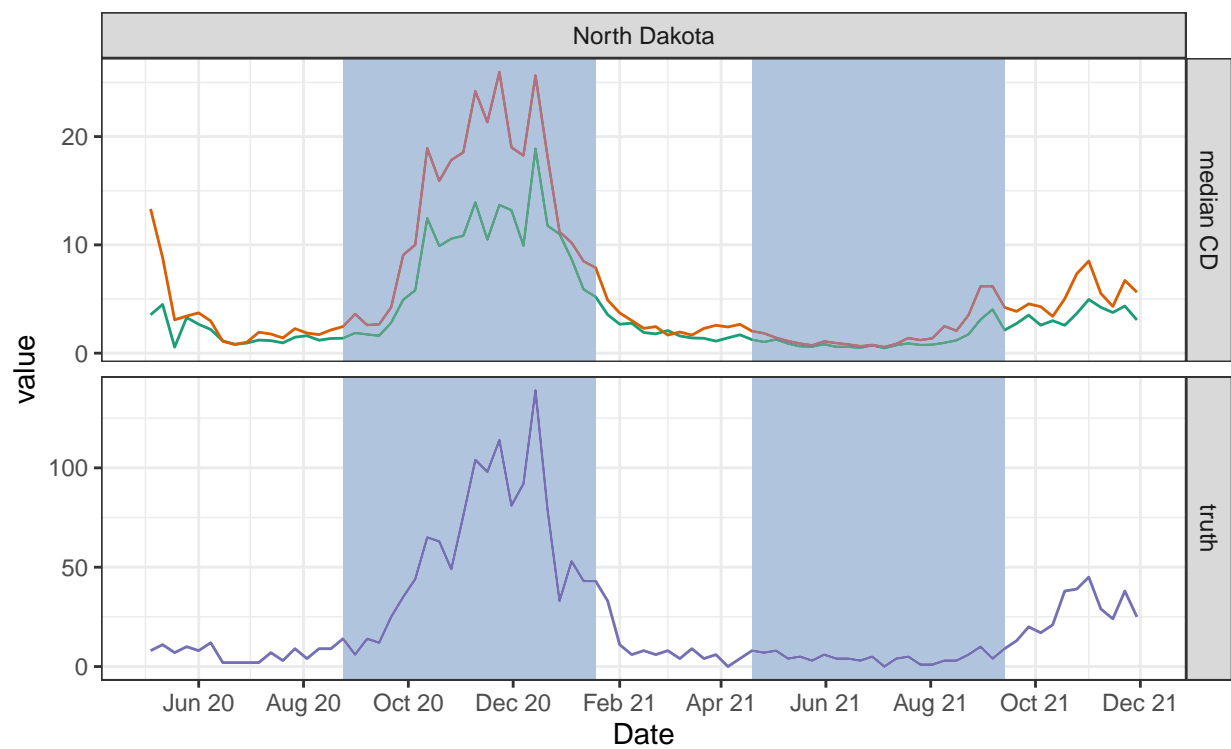


2 wk ahead – 35

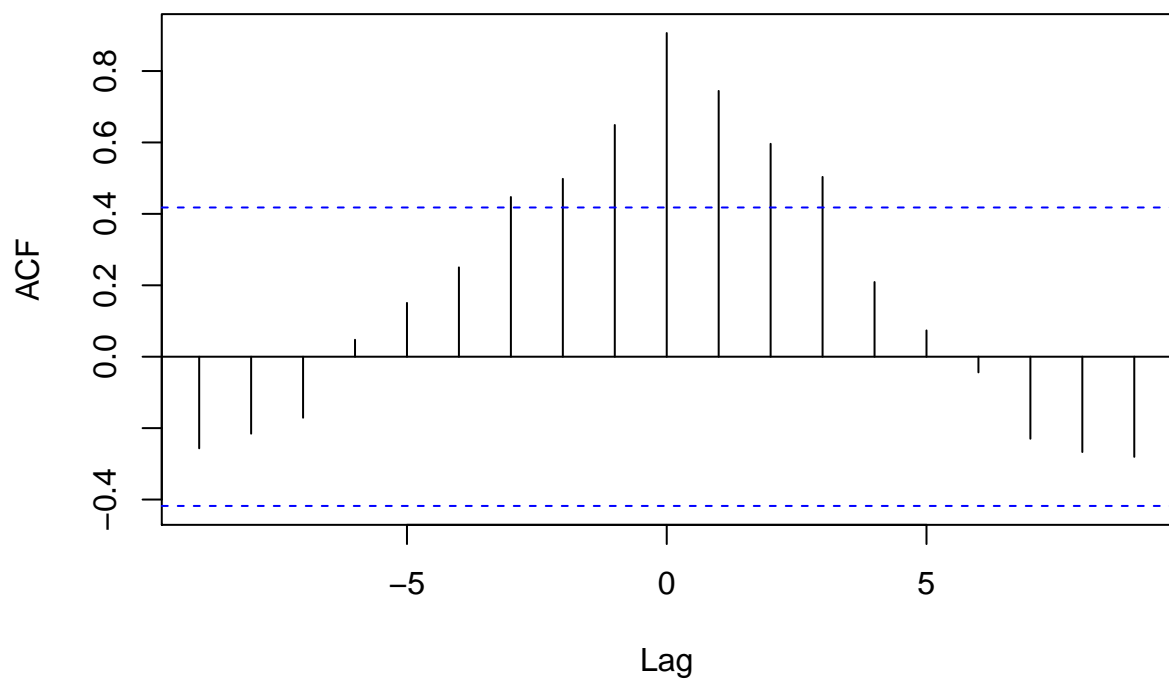


4 wk ahead – 35

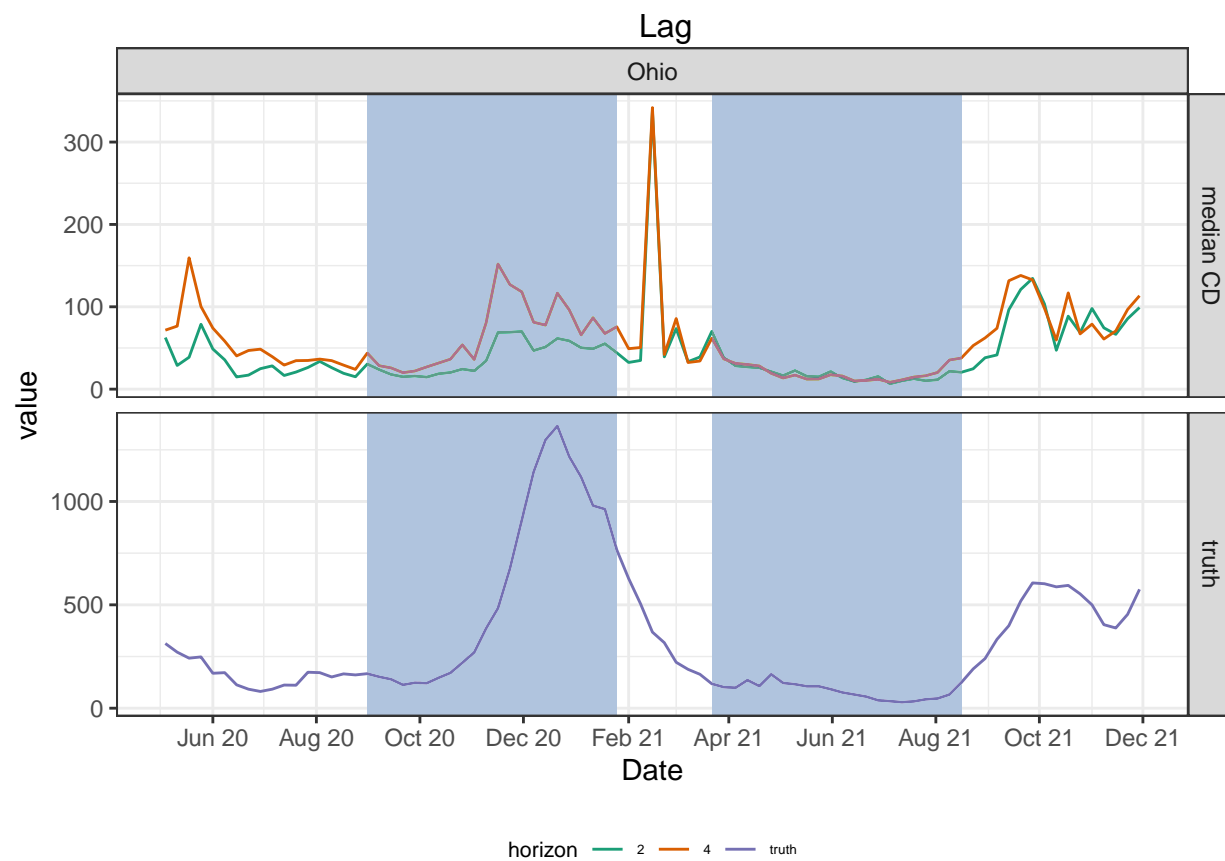
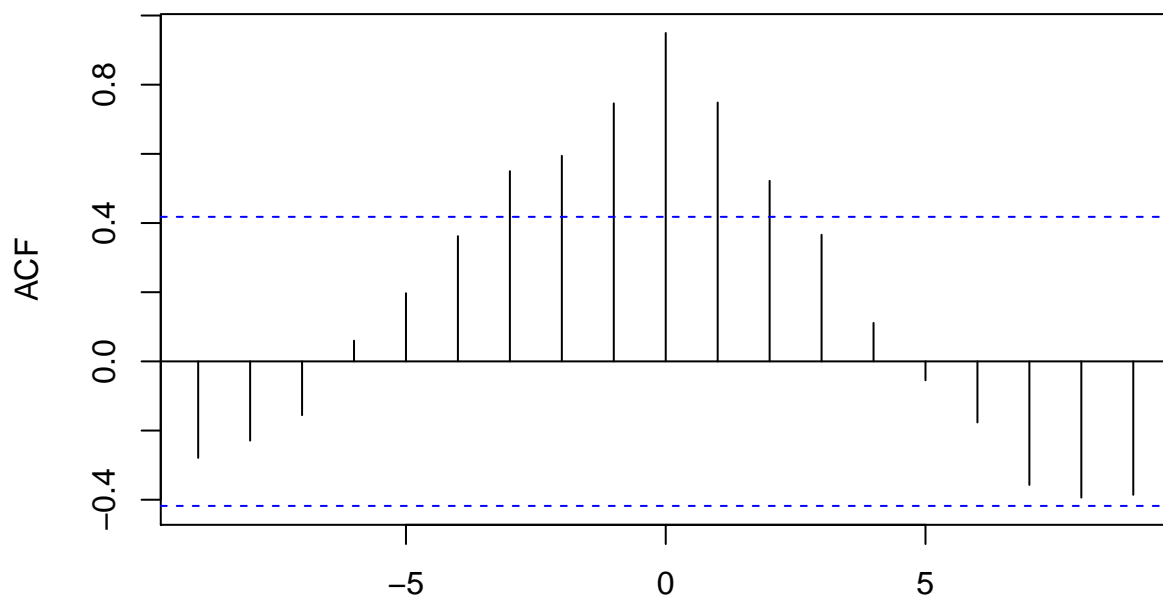




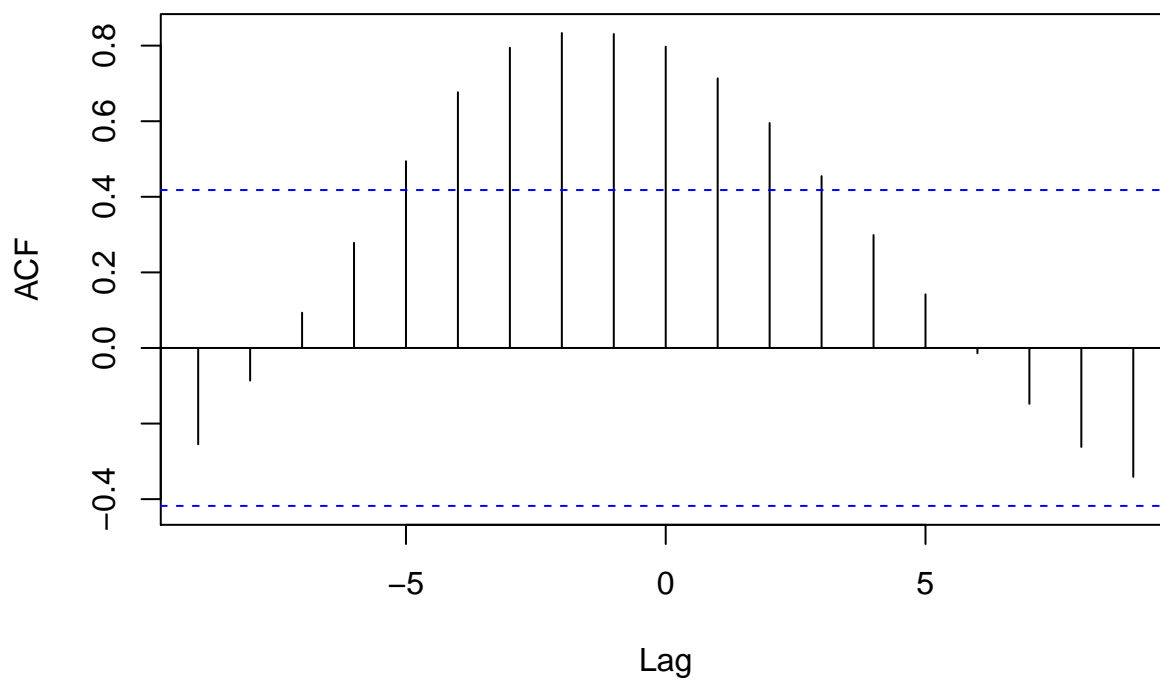
horizon — 2 — 4 — truth
2 wk ahead – 38



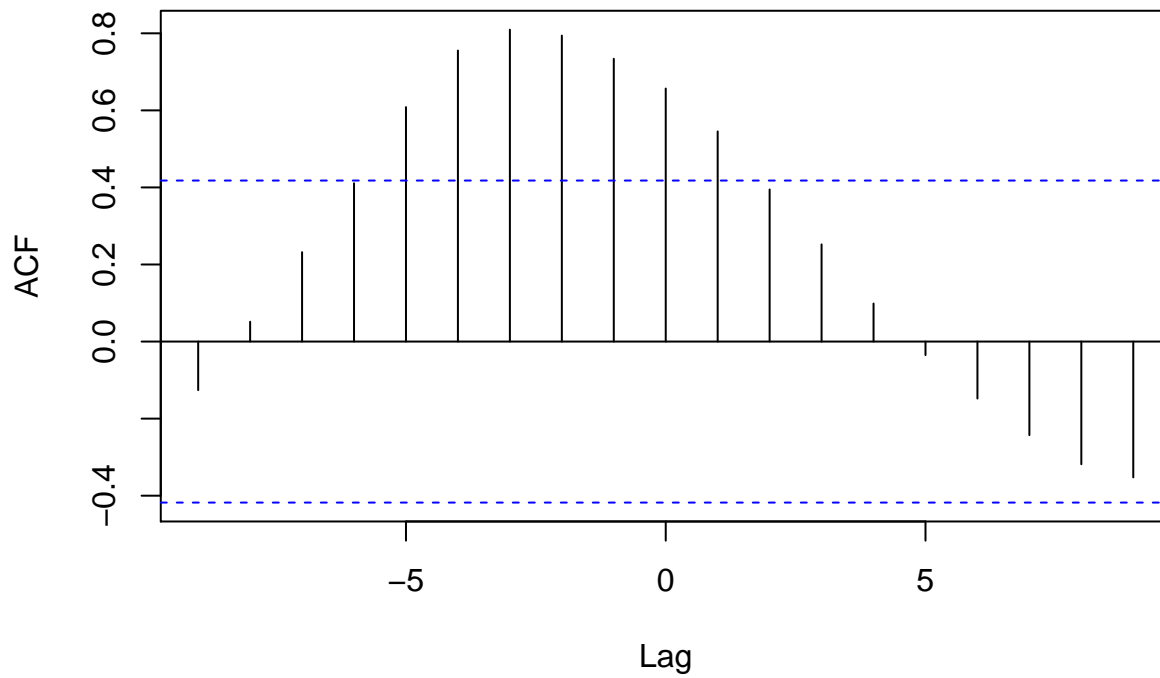
4 wk ahead – 38

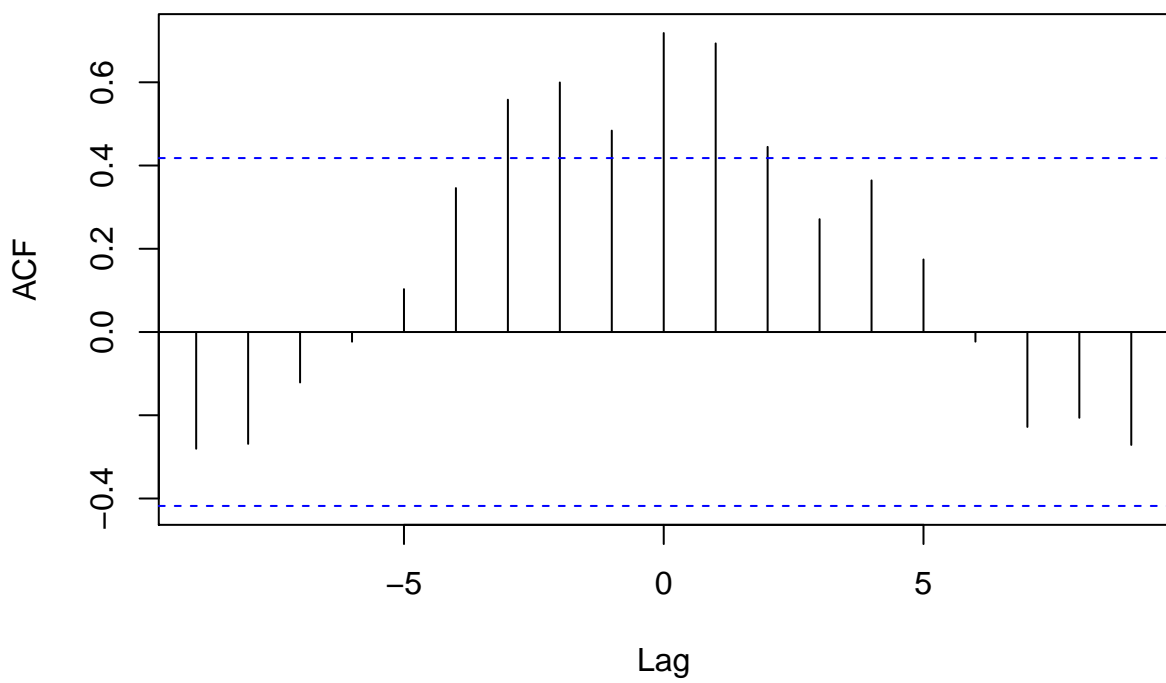
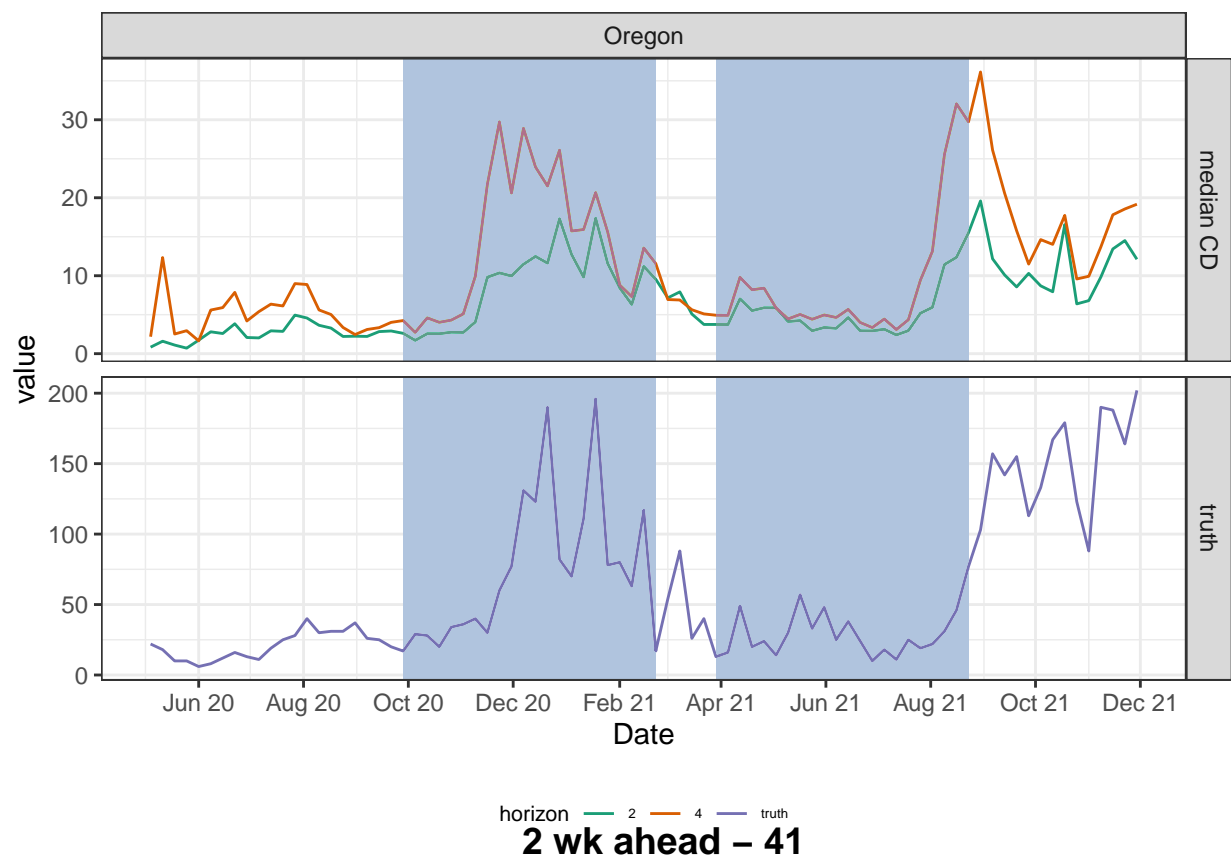


2 wk ahead – 39

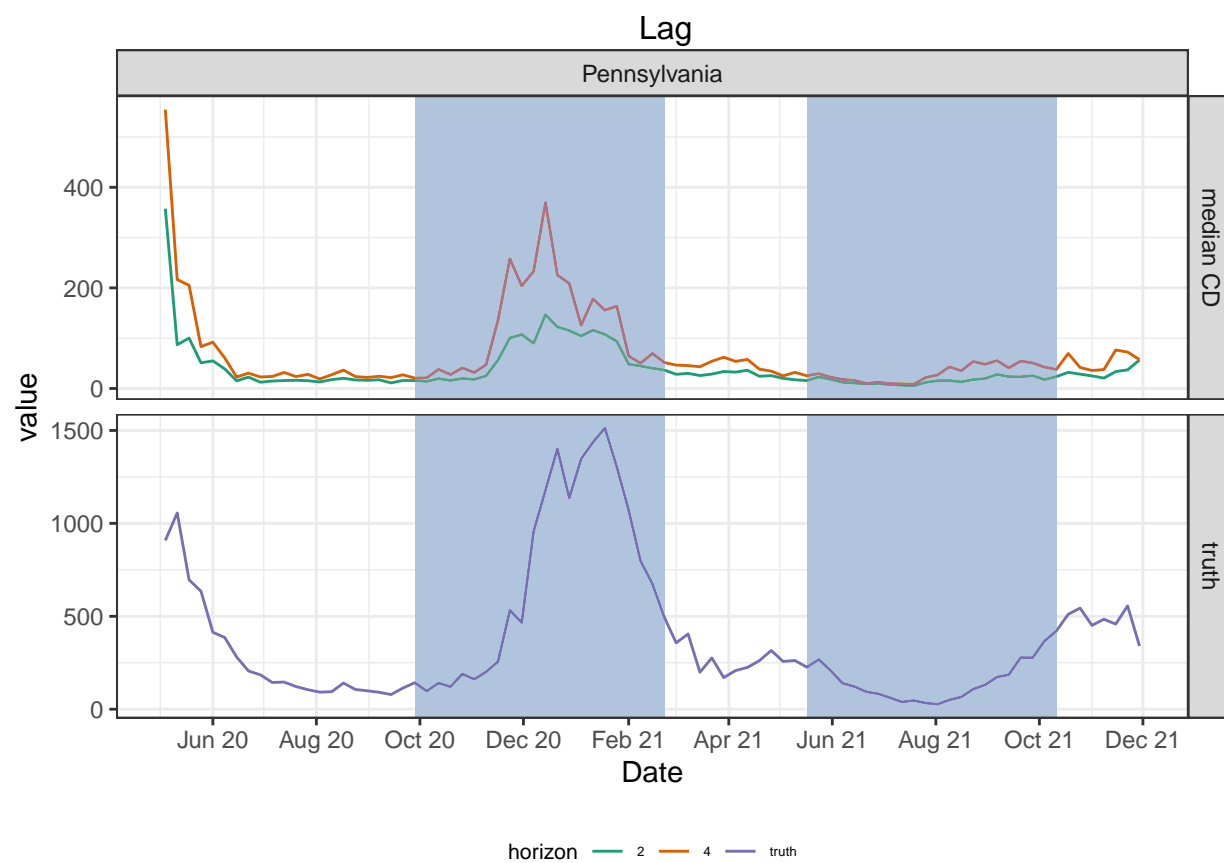
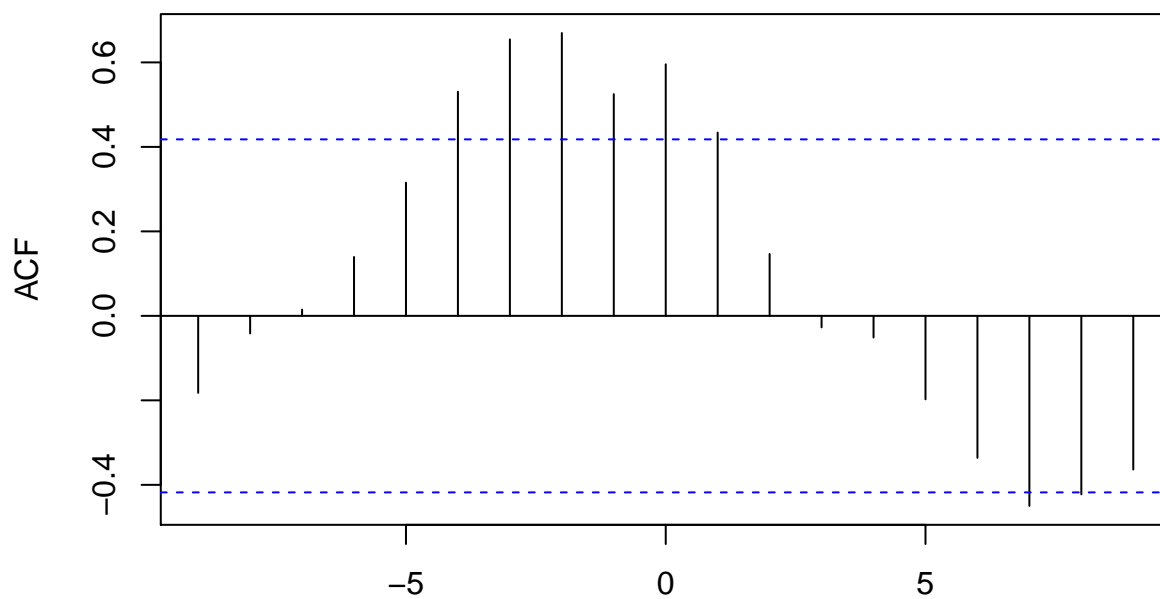


4 wk ahead – 39

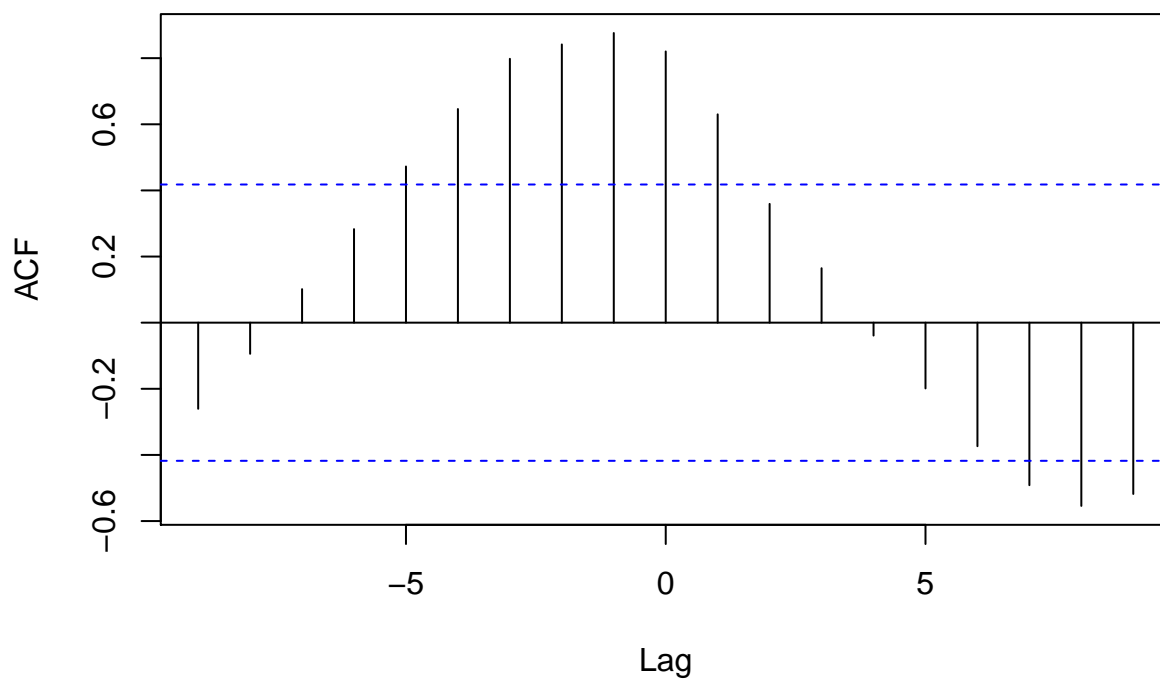




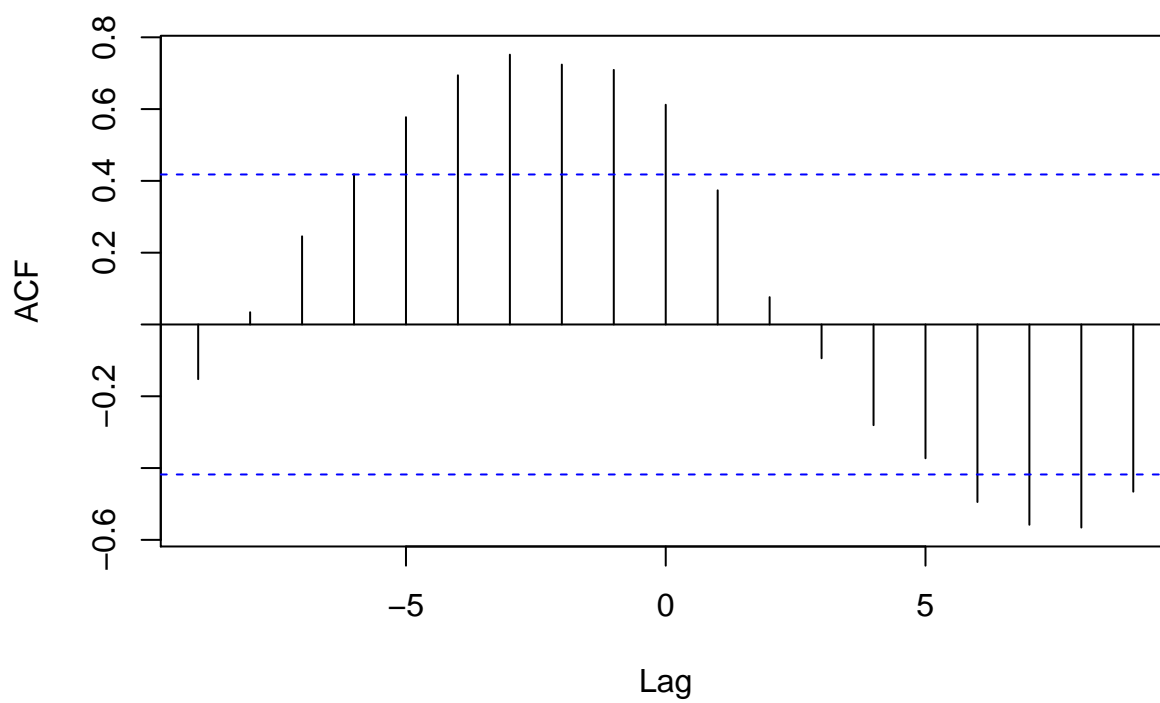
4 wk ahead – 41

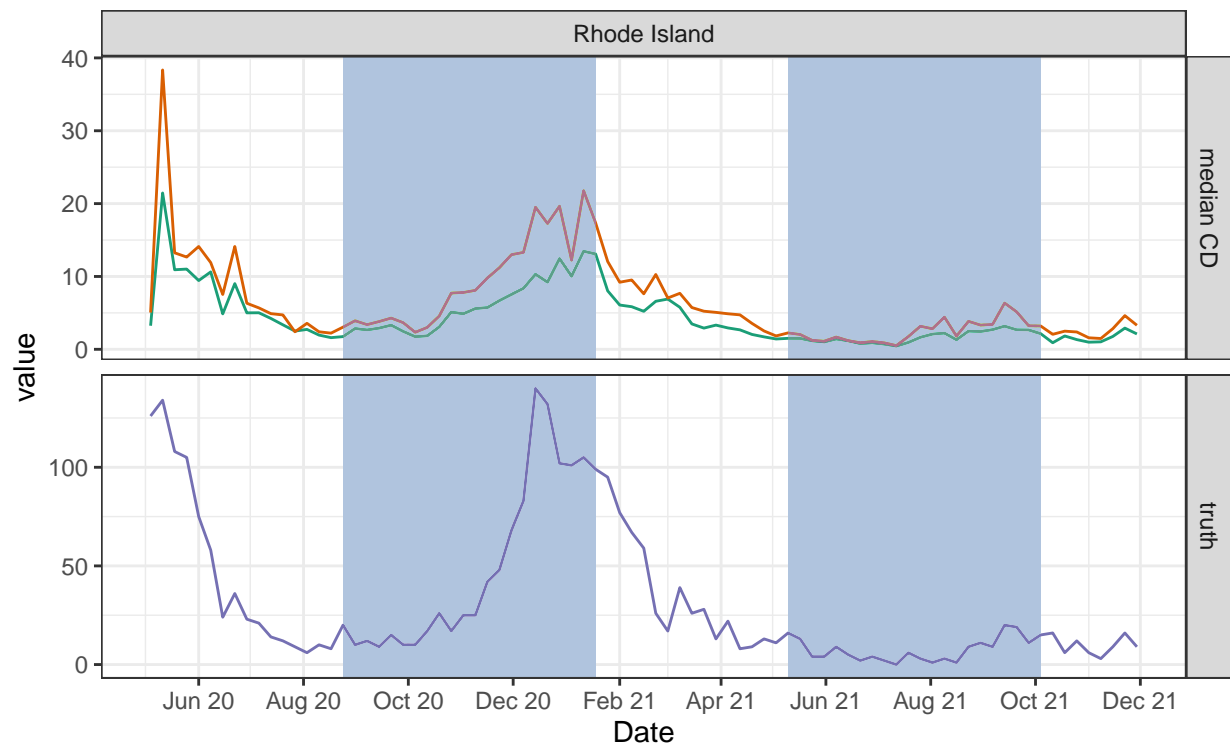


2 wk ahead – 42

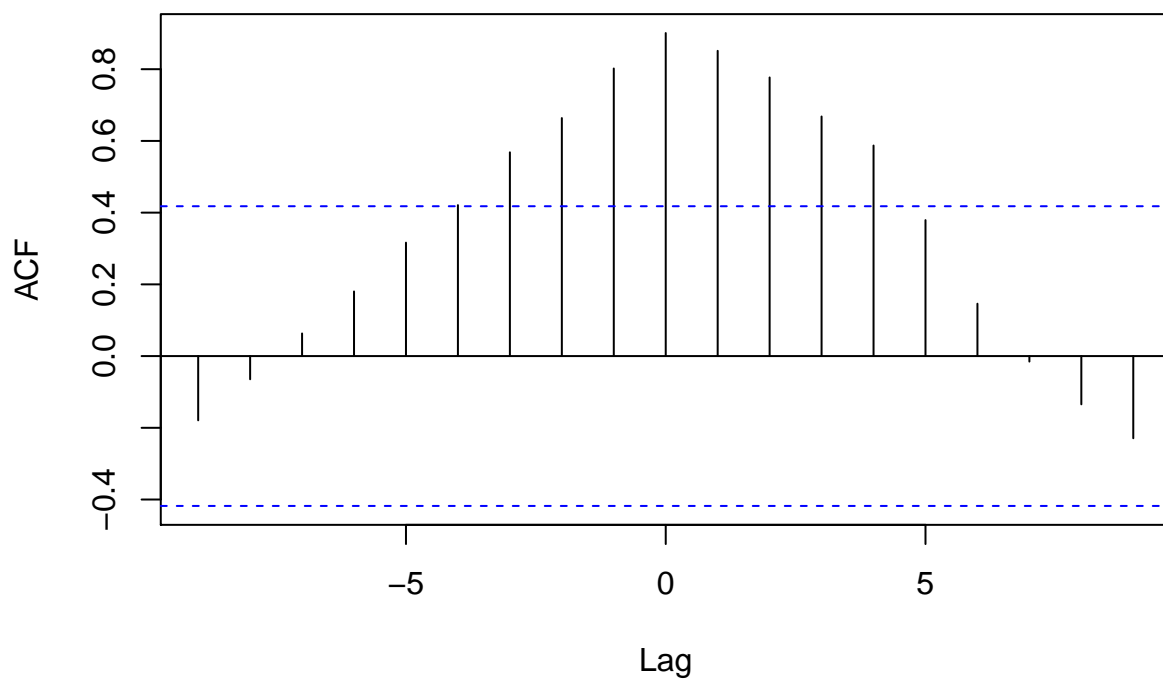


4 wk ahead – 42

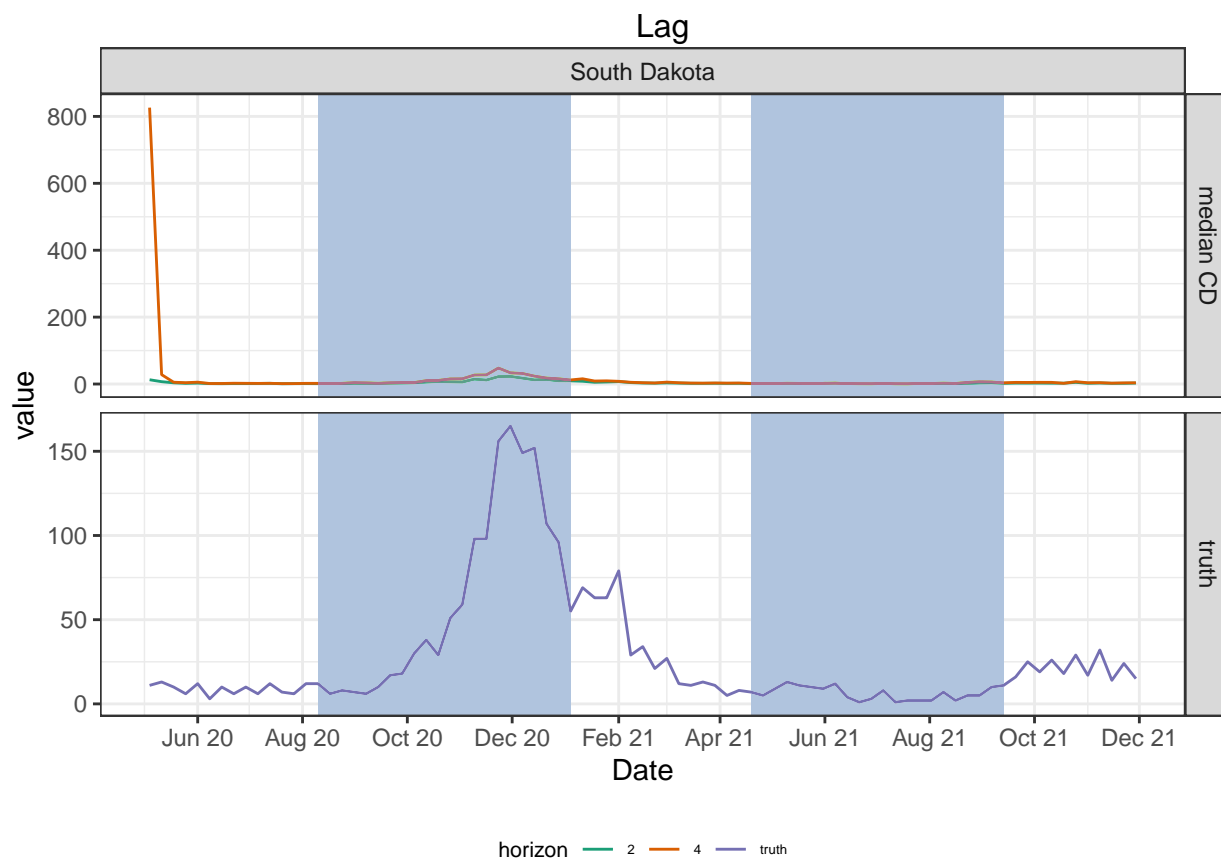
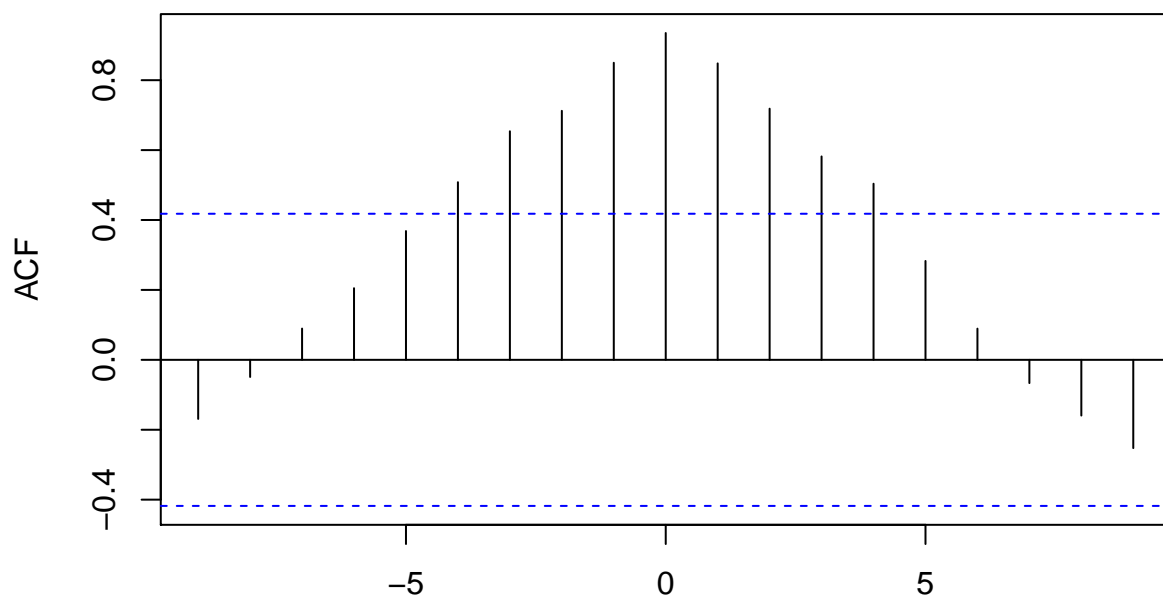




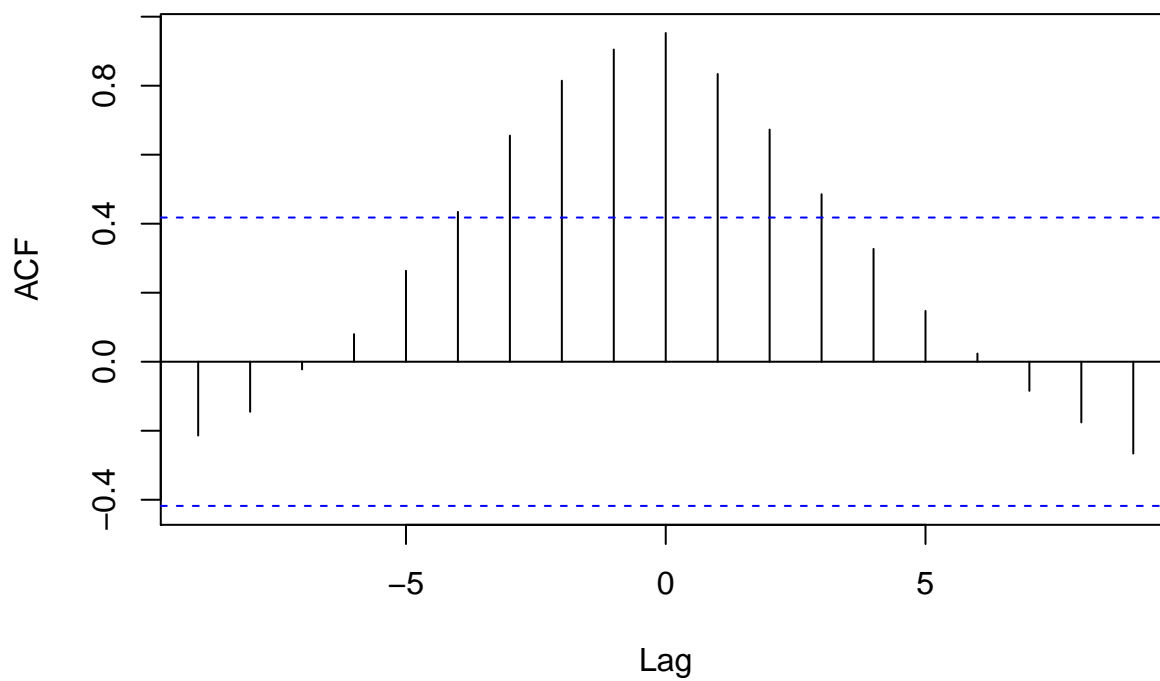
horizon — 2 — 4 — truth
2 wk ahead – 44



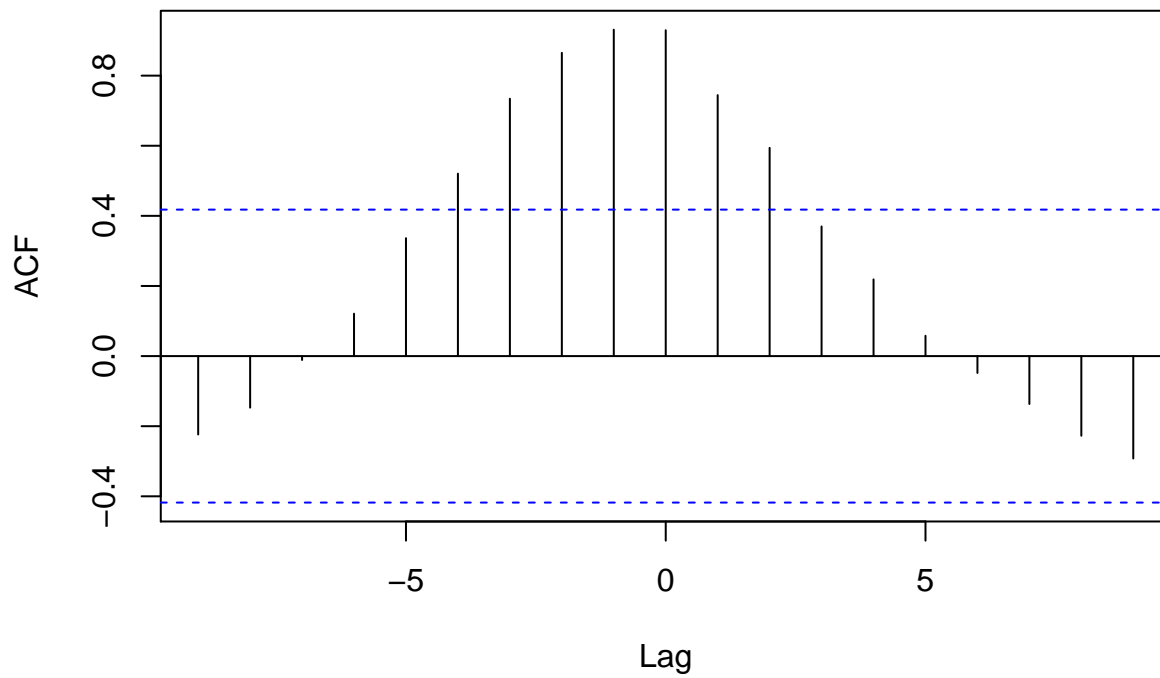
4 wk ahead – 44

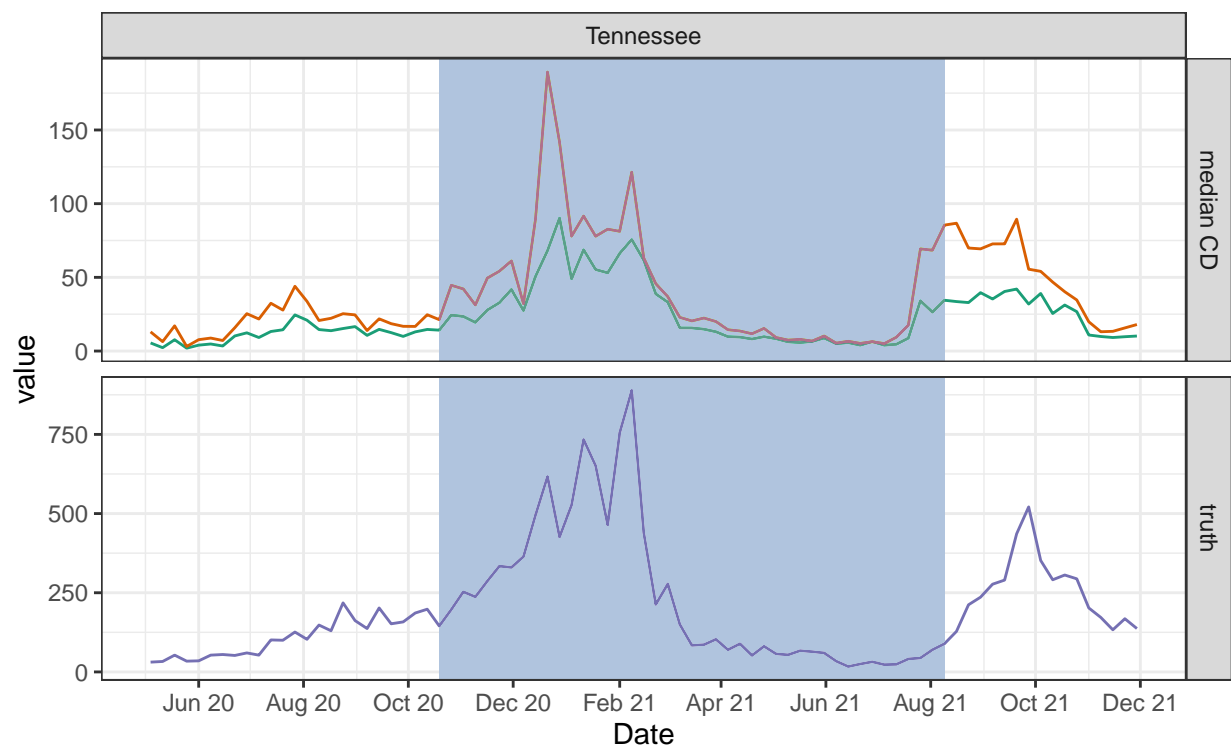


2 wk ahead – 46

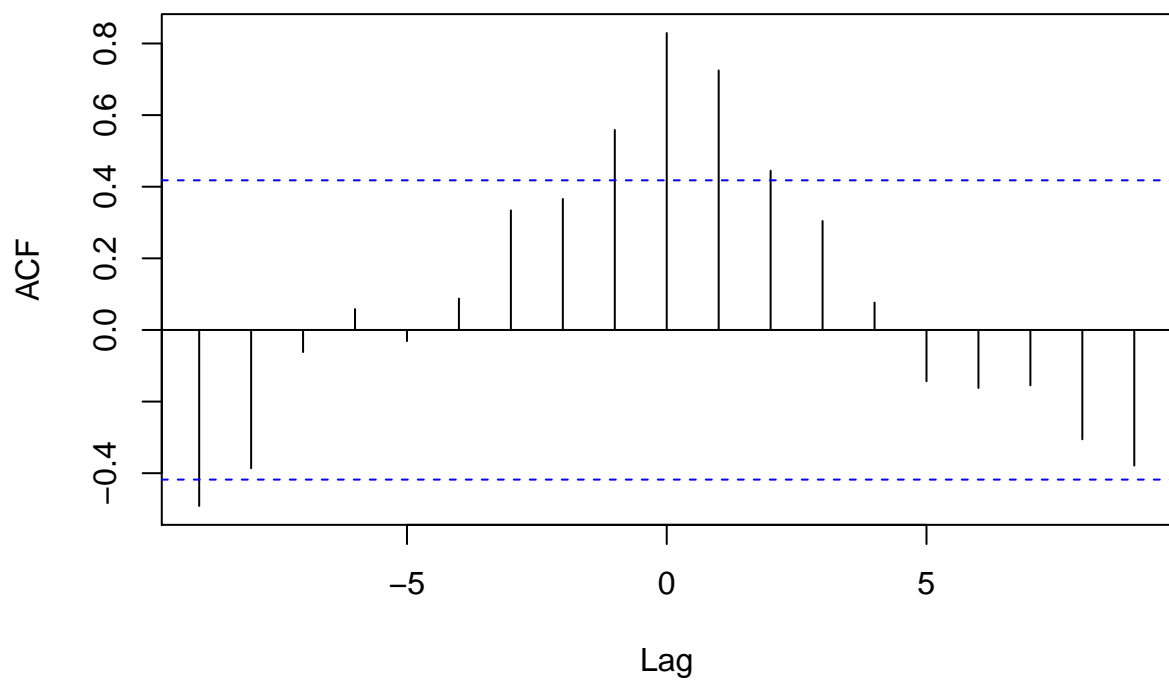


4 wk ahead – 46

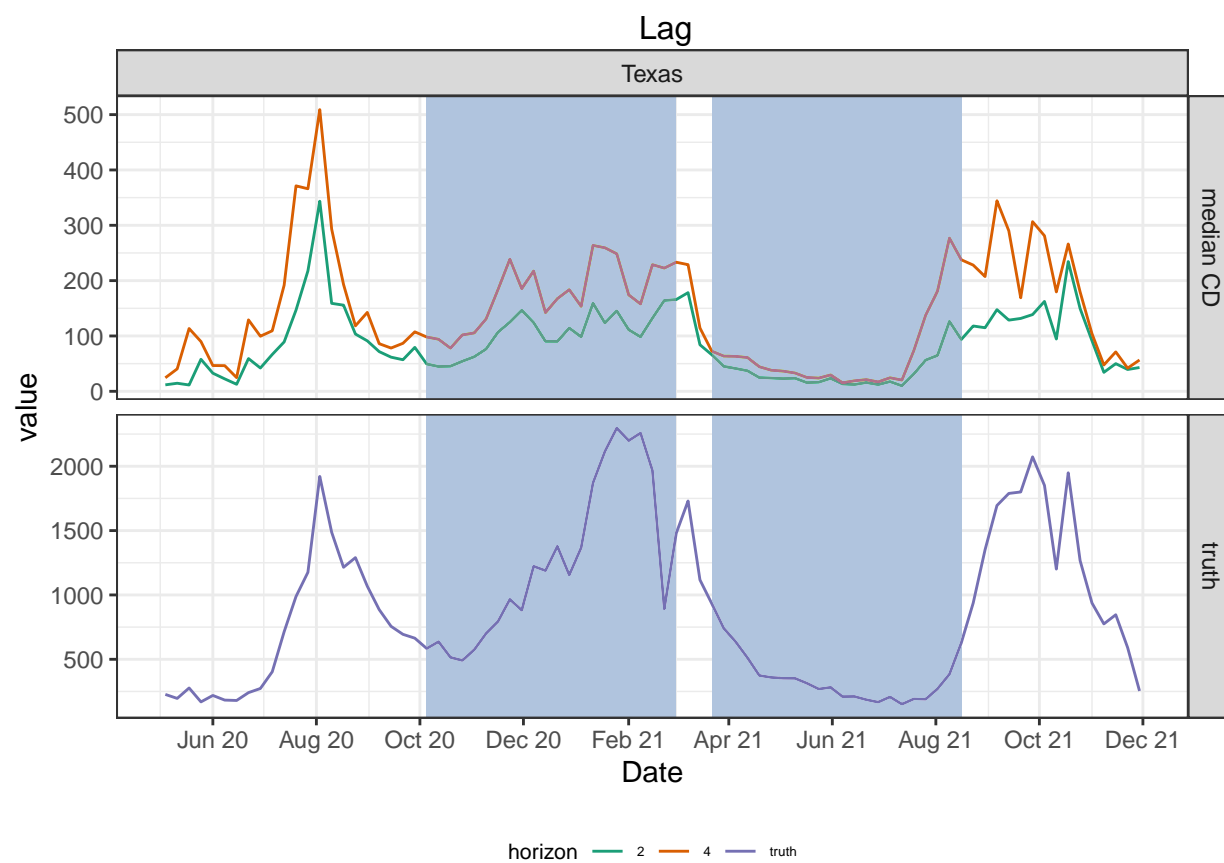
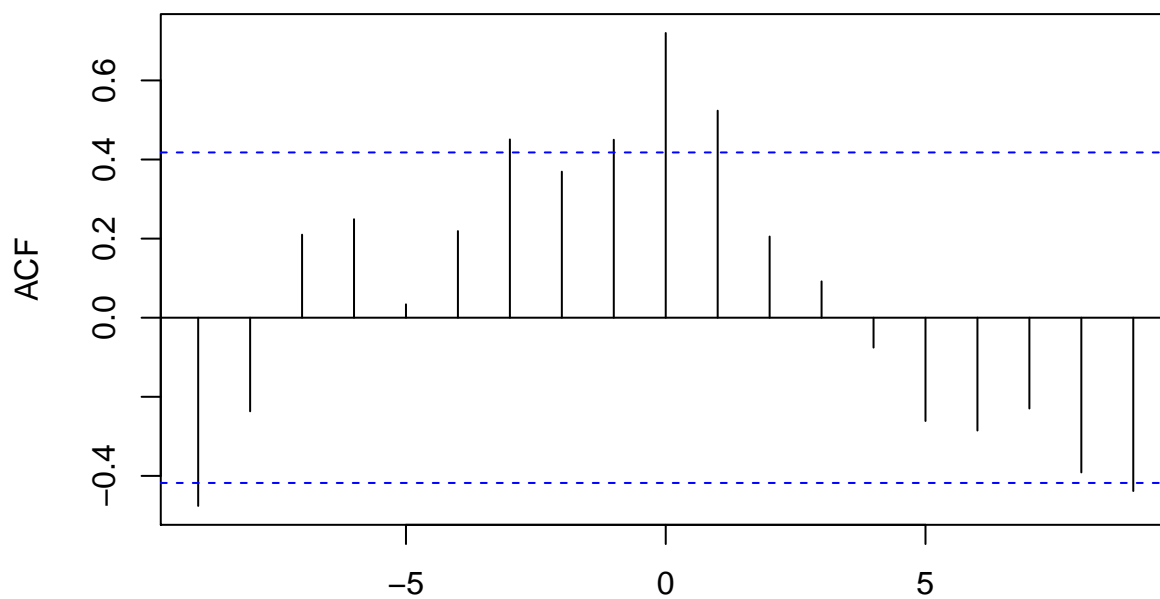




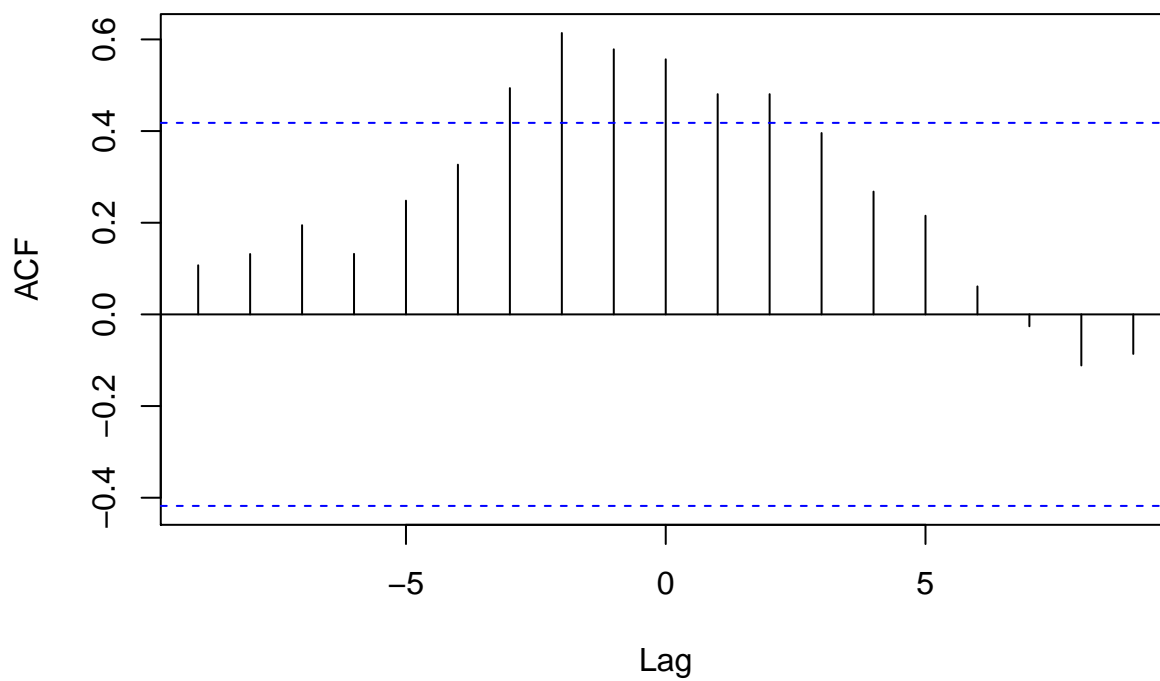
horizon — 2 — 4 — truth
2 wk ahead – 47



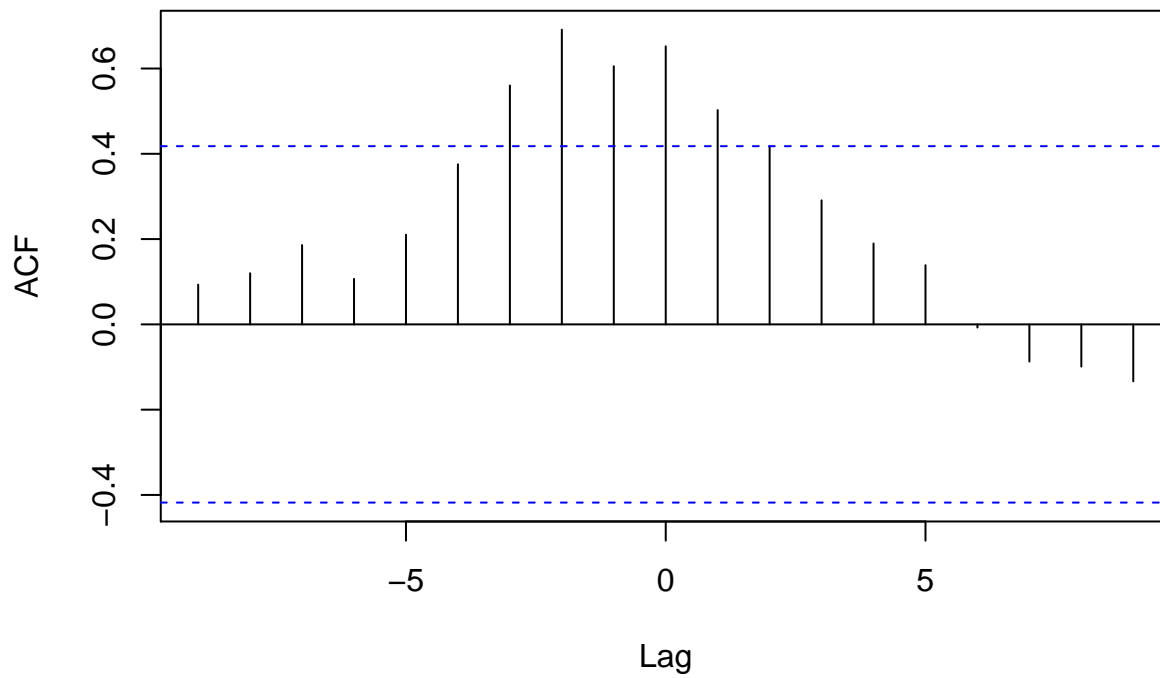
4 wk ahead – 47

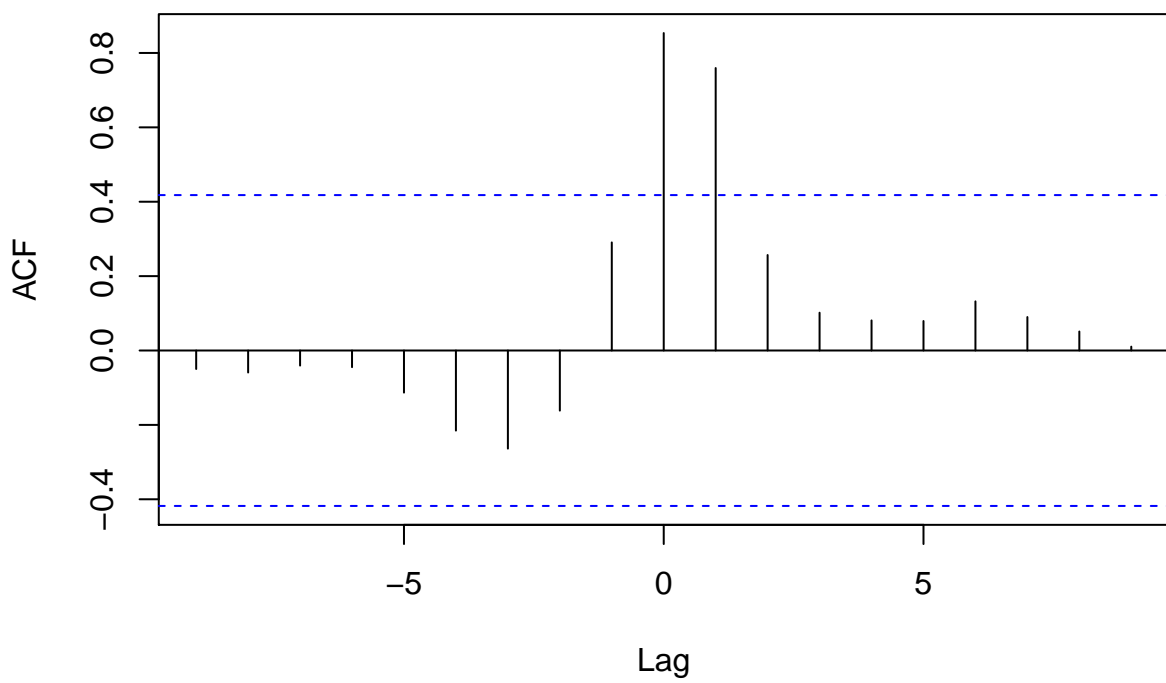
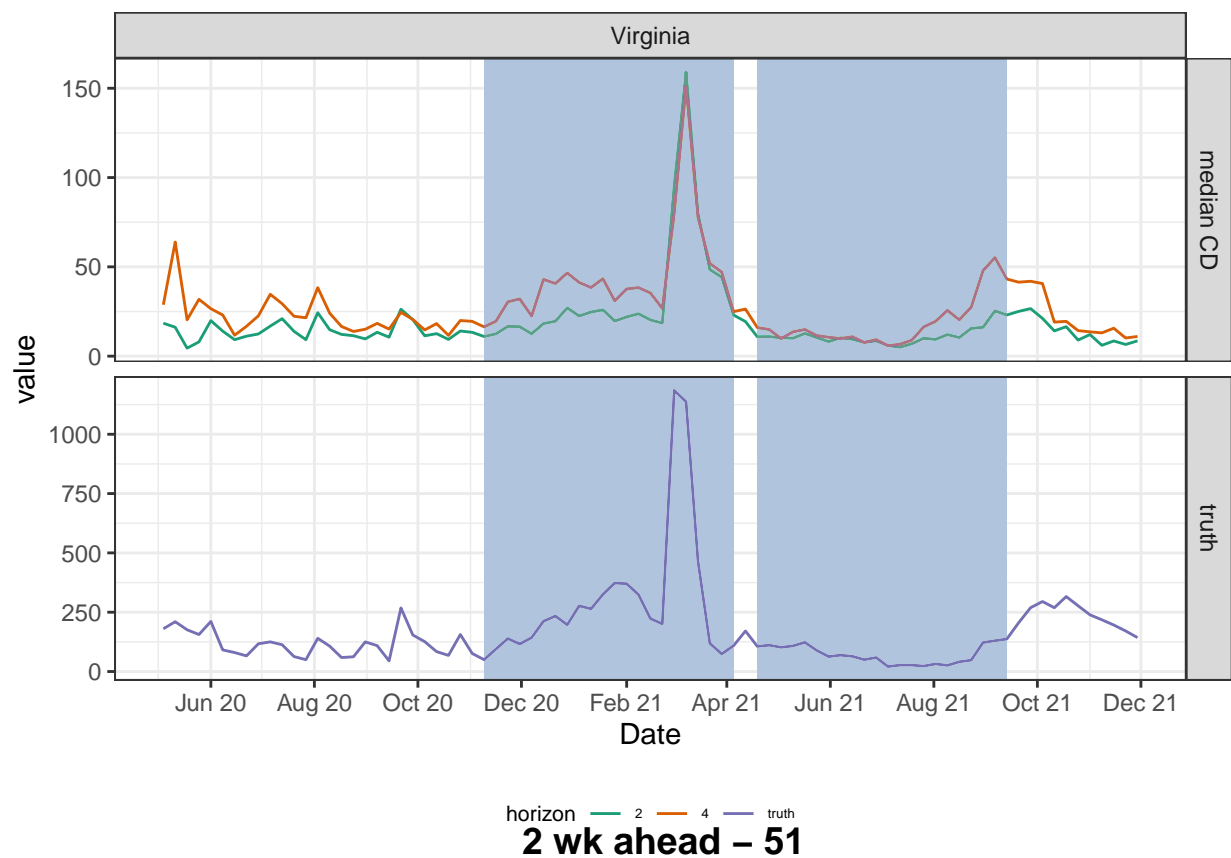


2 wk ahead – 48

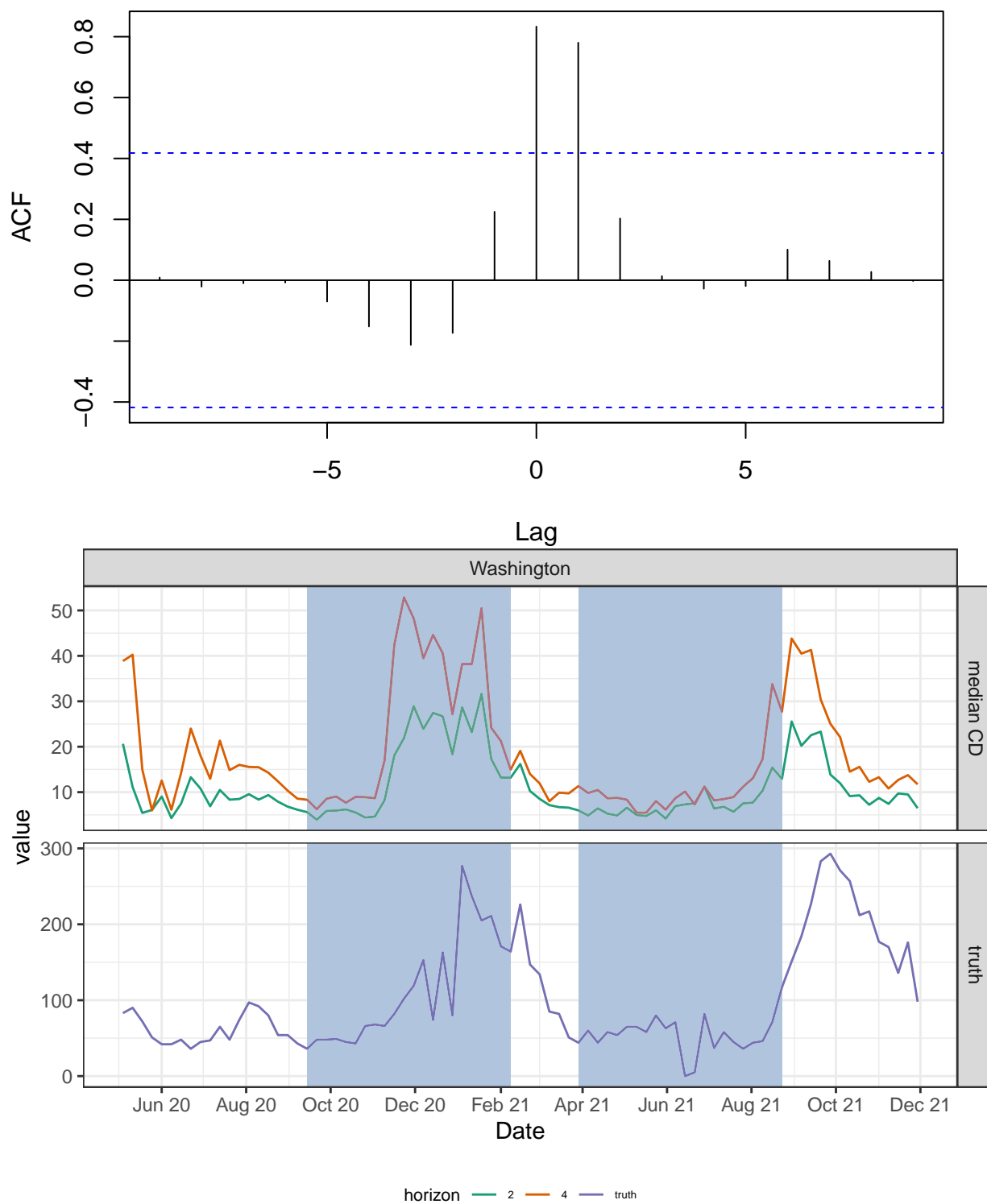


4 wk ahead – 48

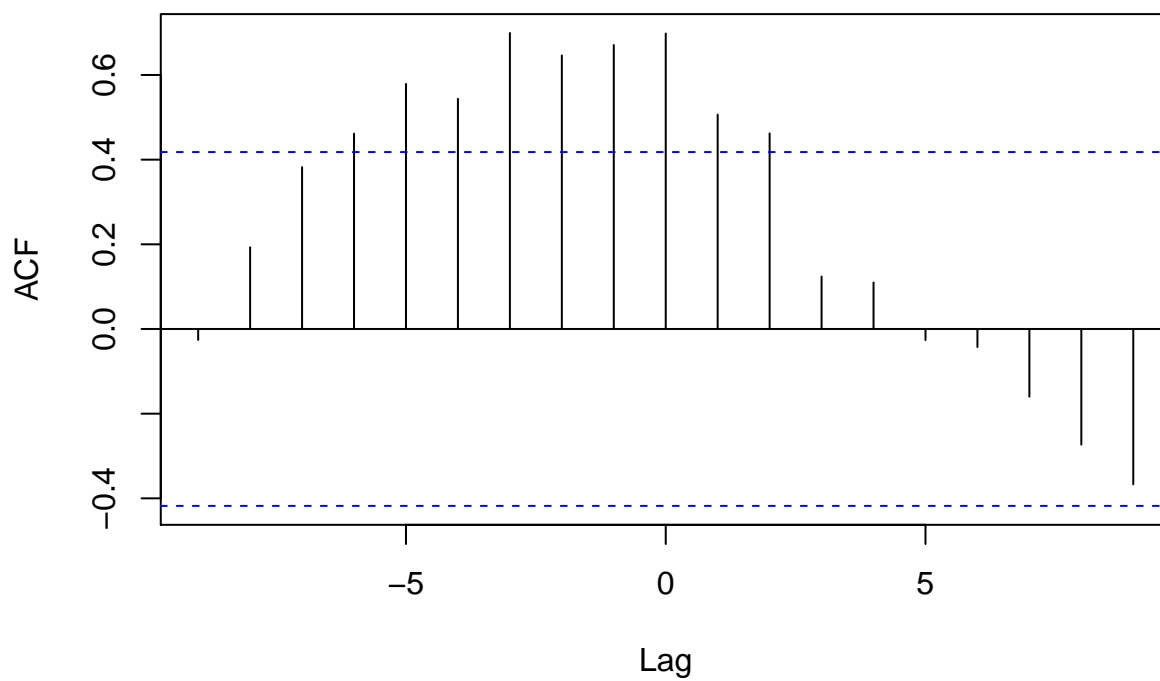




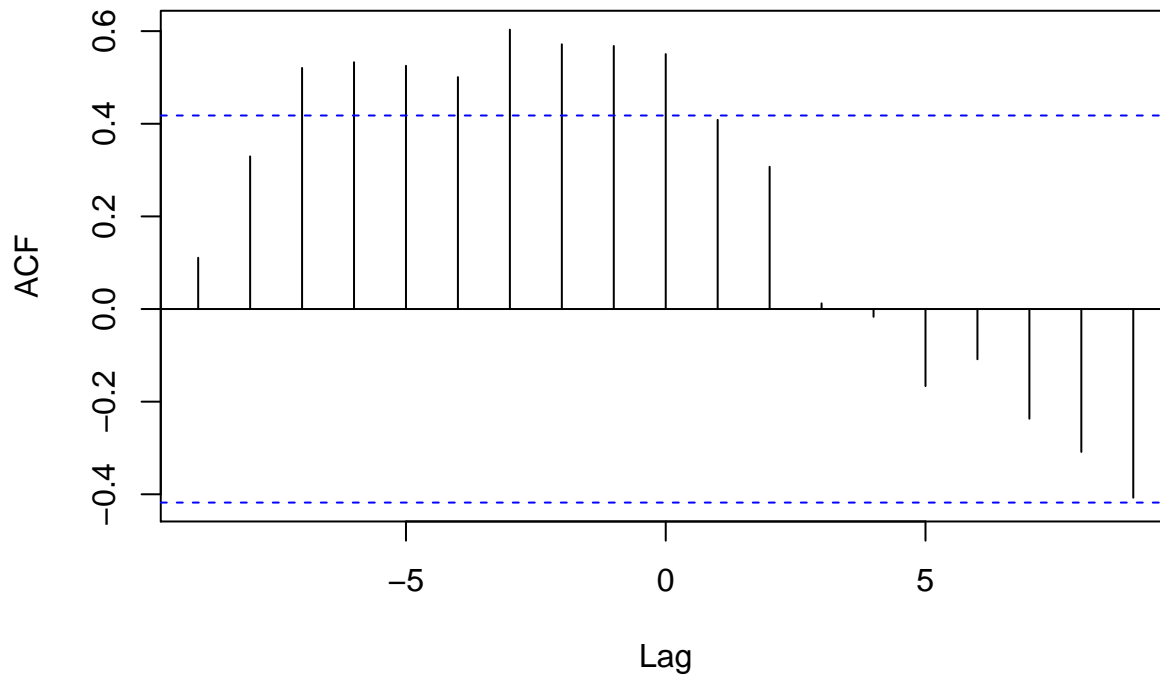
4 wk ahead – 51

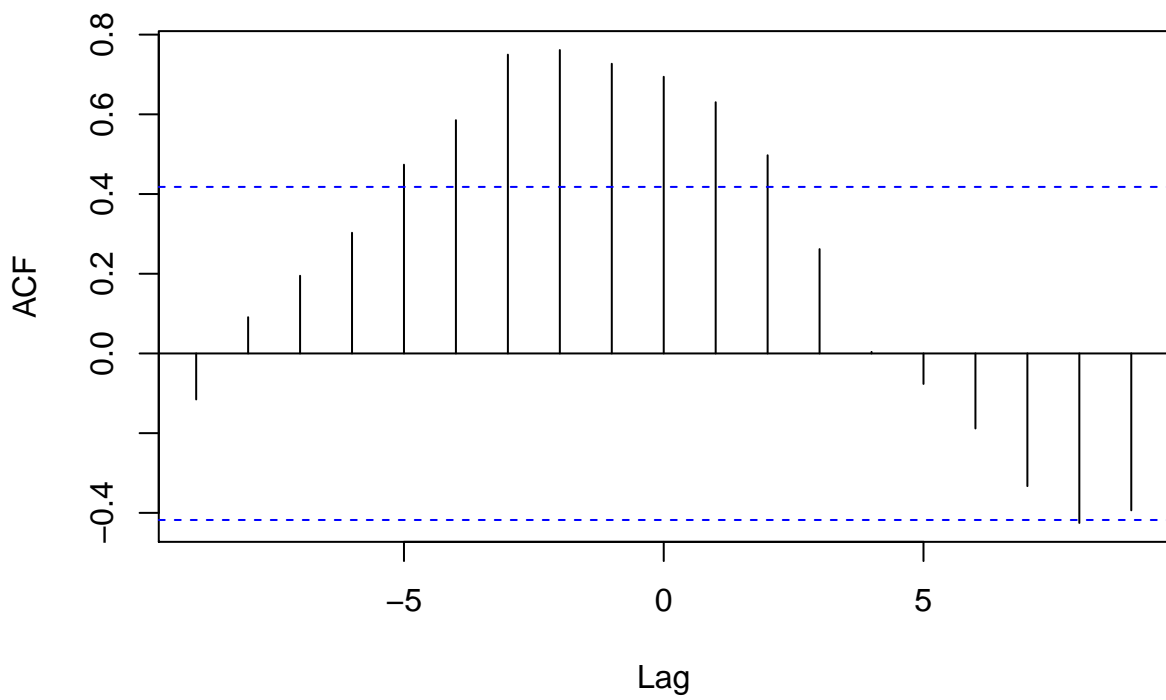
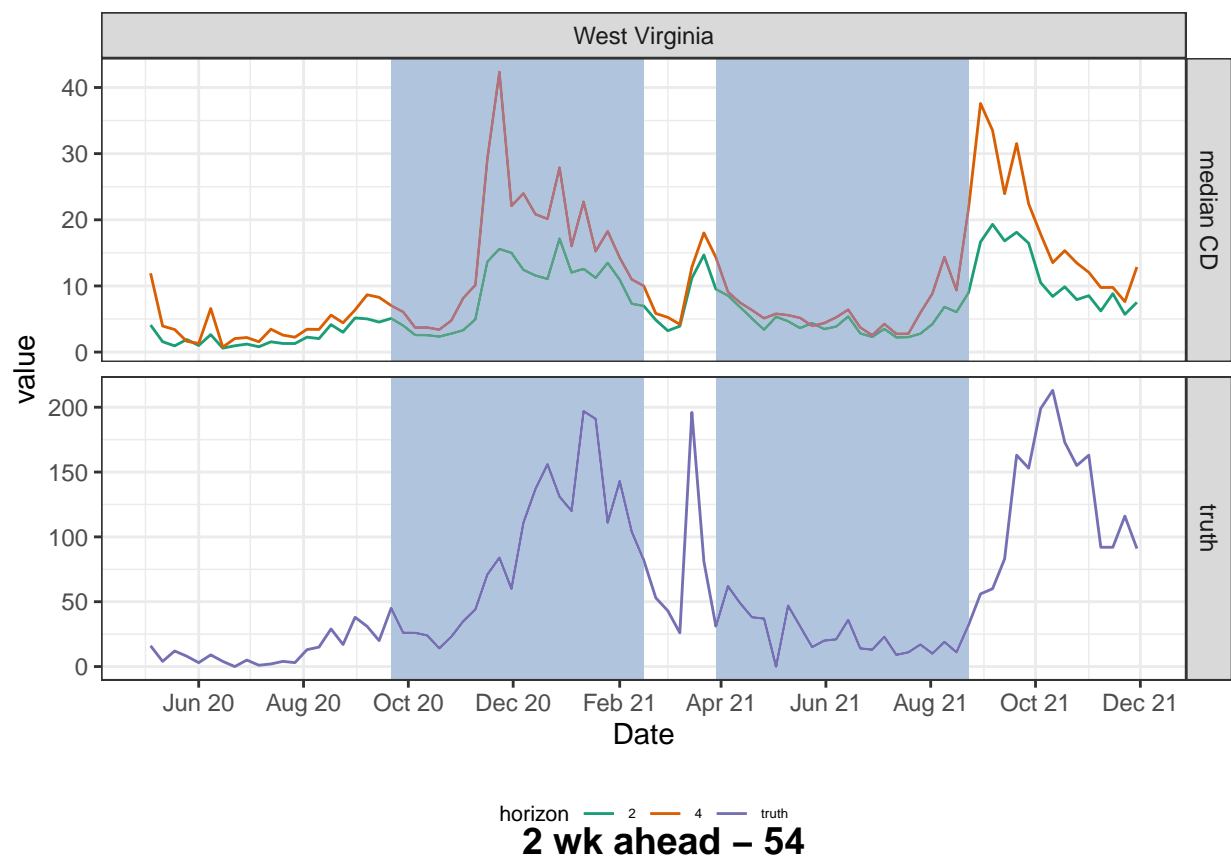


2 wk ahead – 53

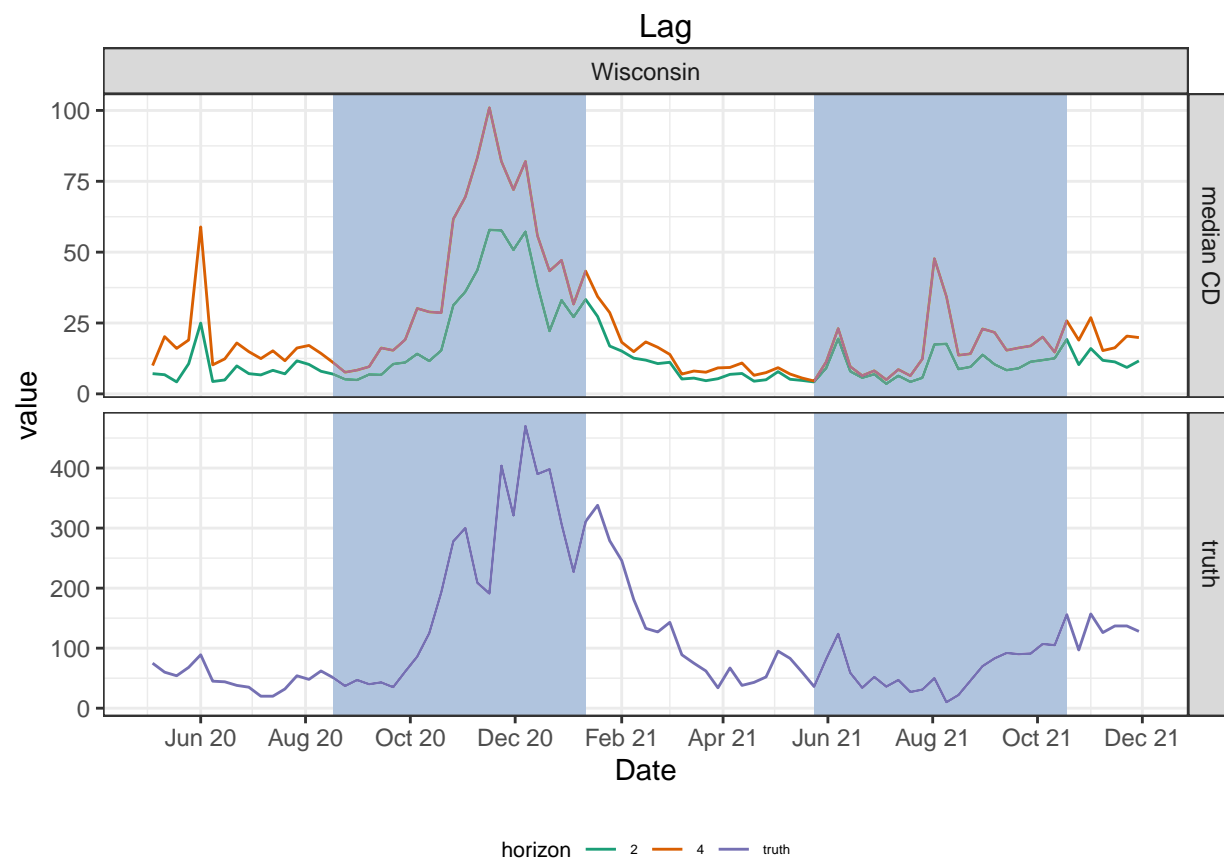
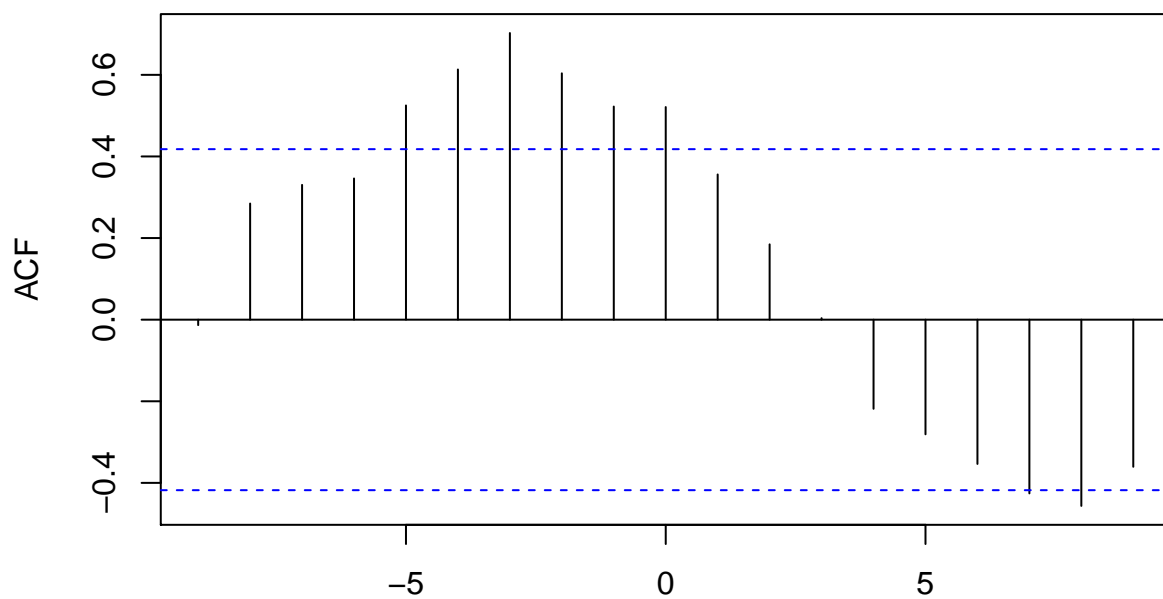


4 wk ahead – 53

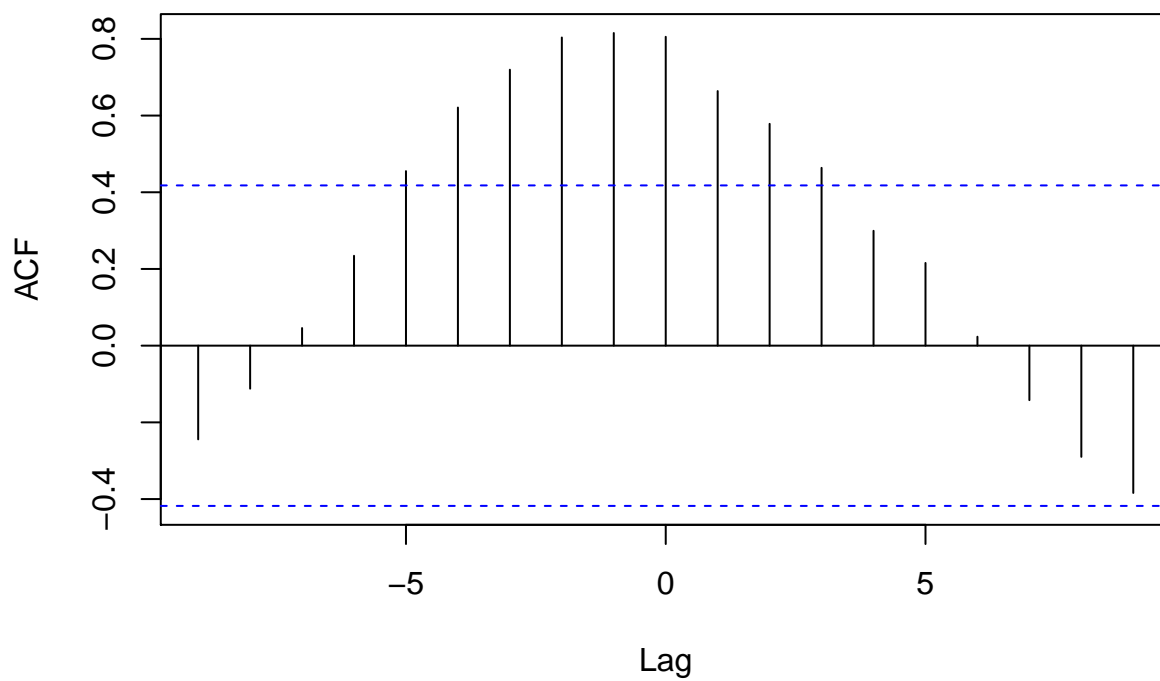




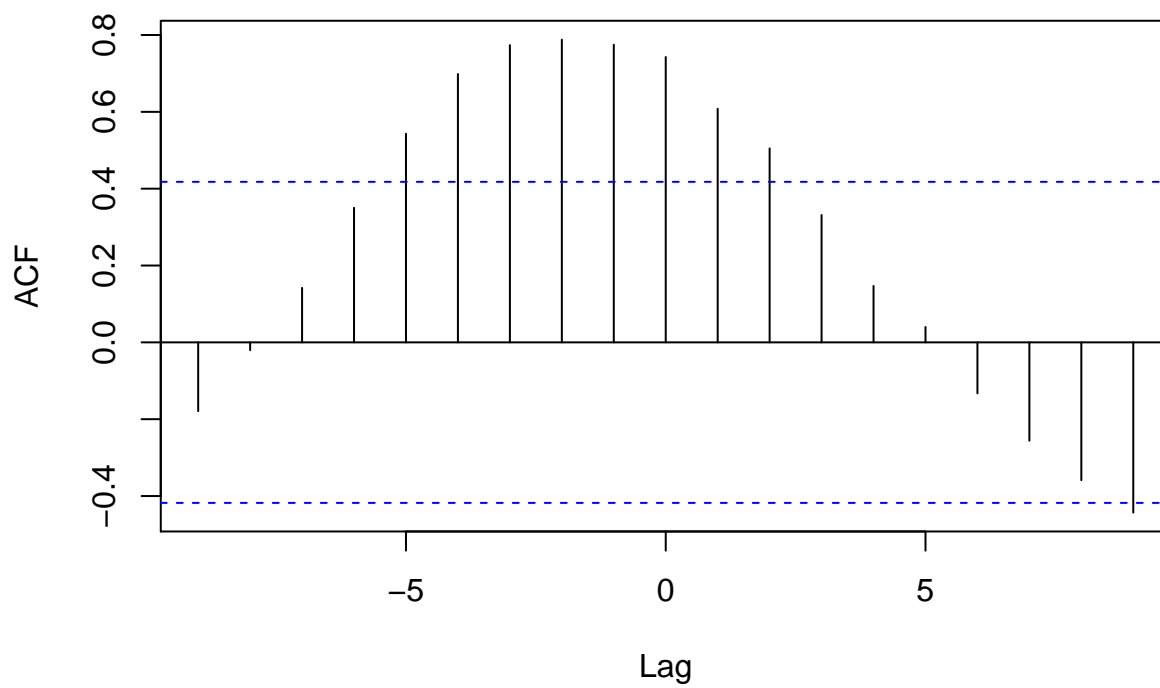
4 wk ahead – 54



2 wk ahead – 55

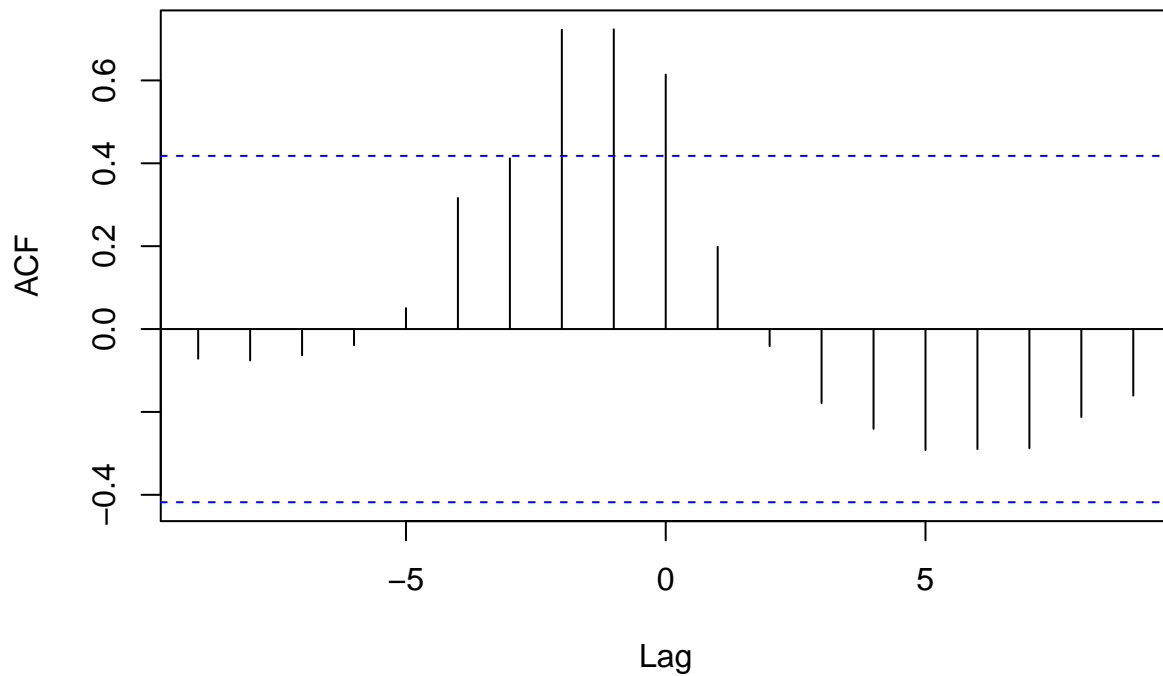


4 wk ahead – 55

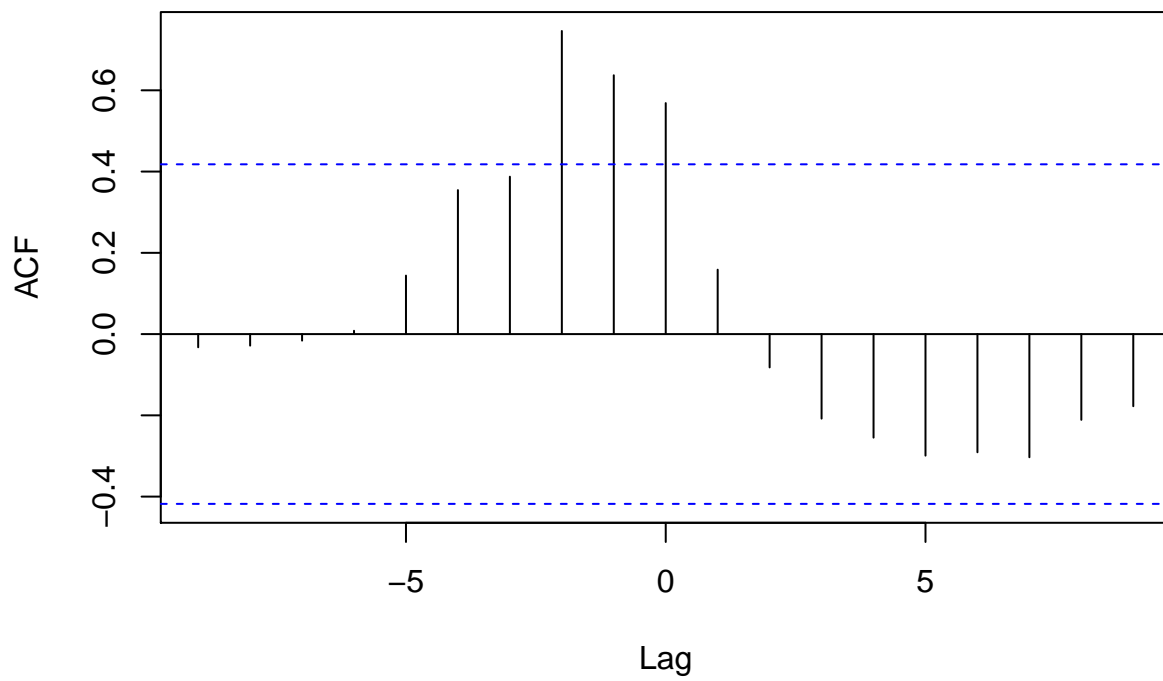


Winter 2020/21 Flat

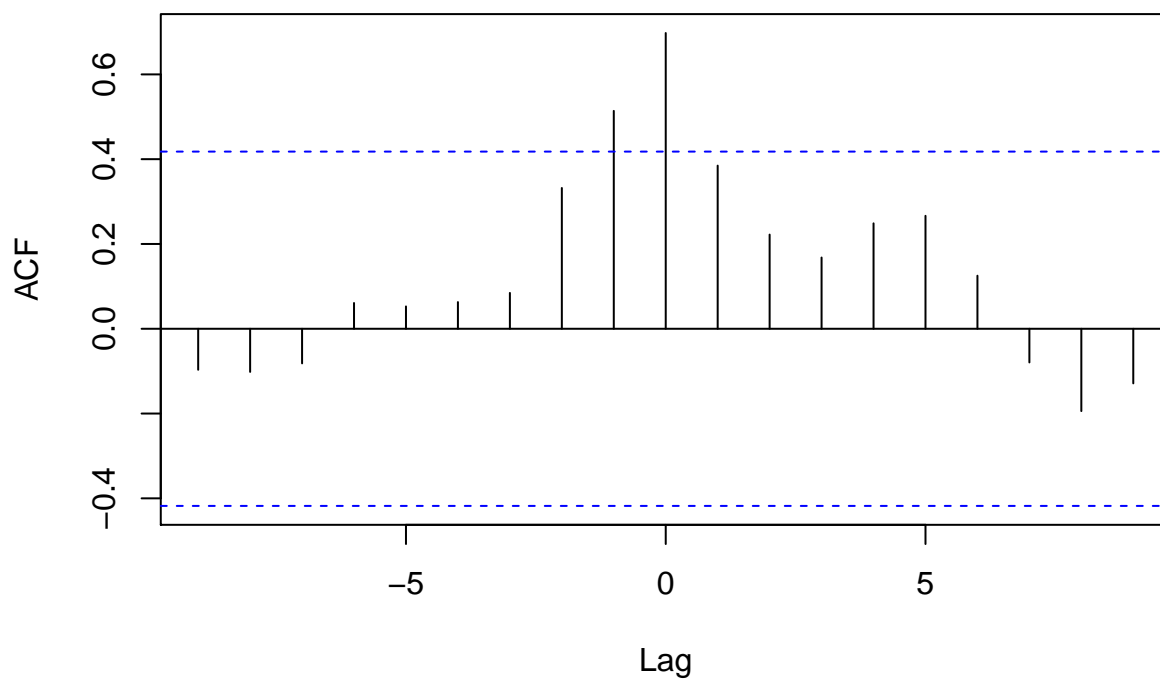
2 wk ahead – 01



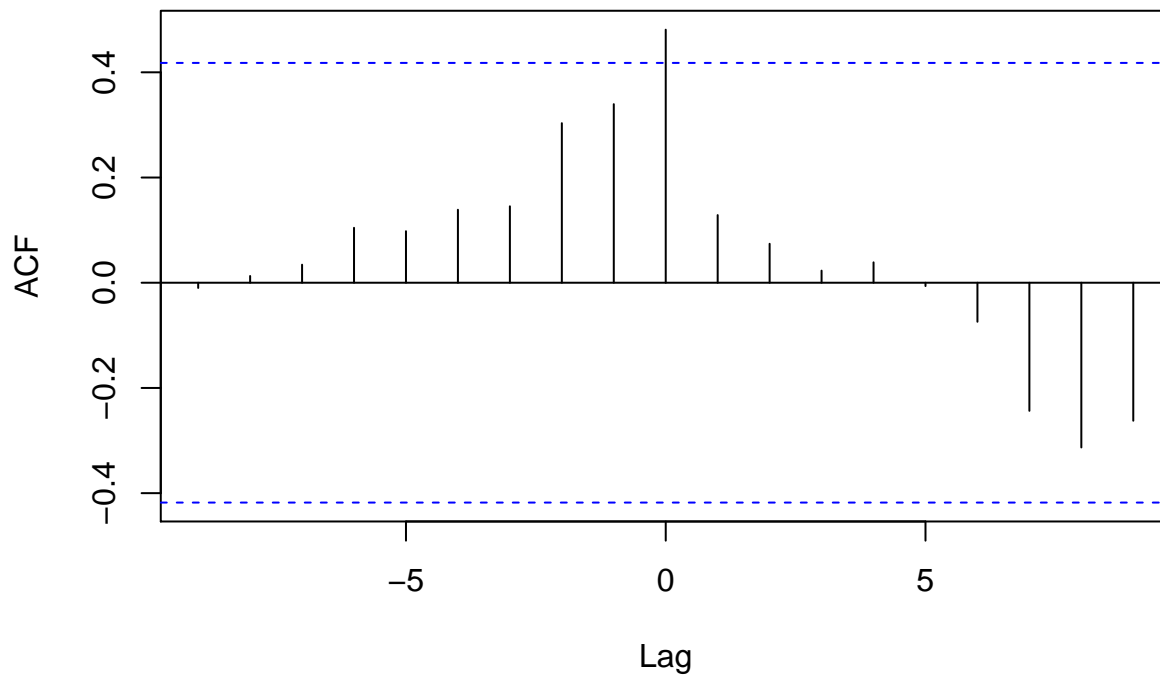
4 wk ahead – 01



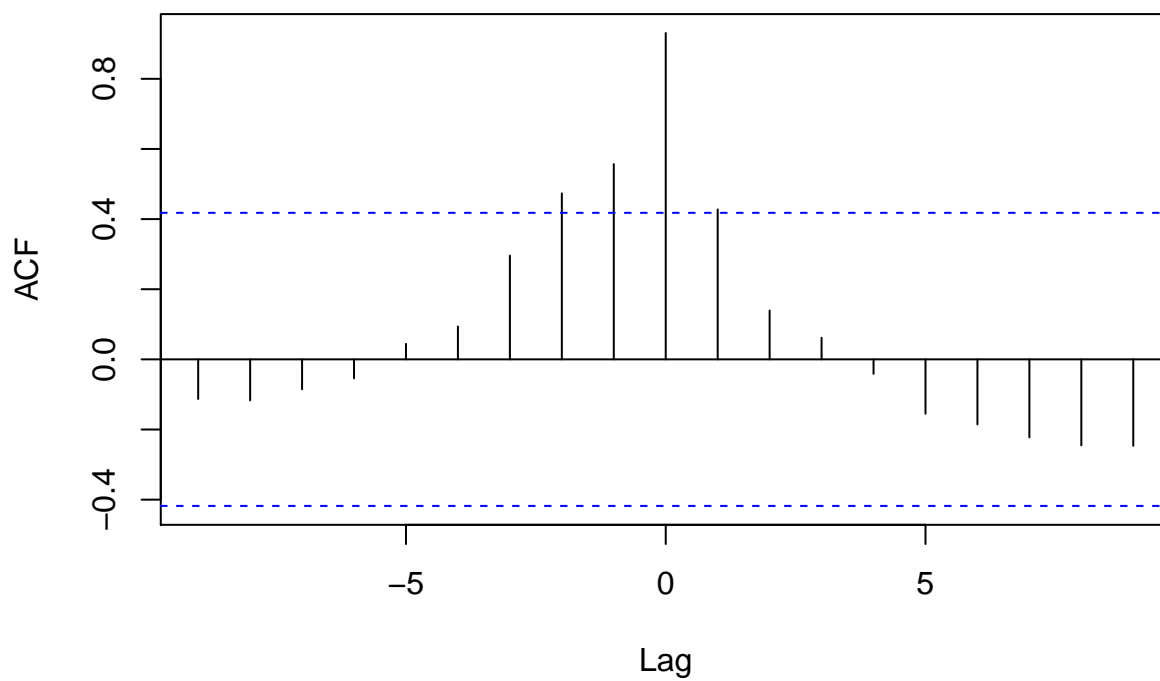
2 wk ahead – 04



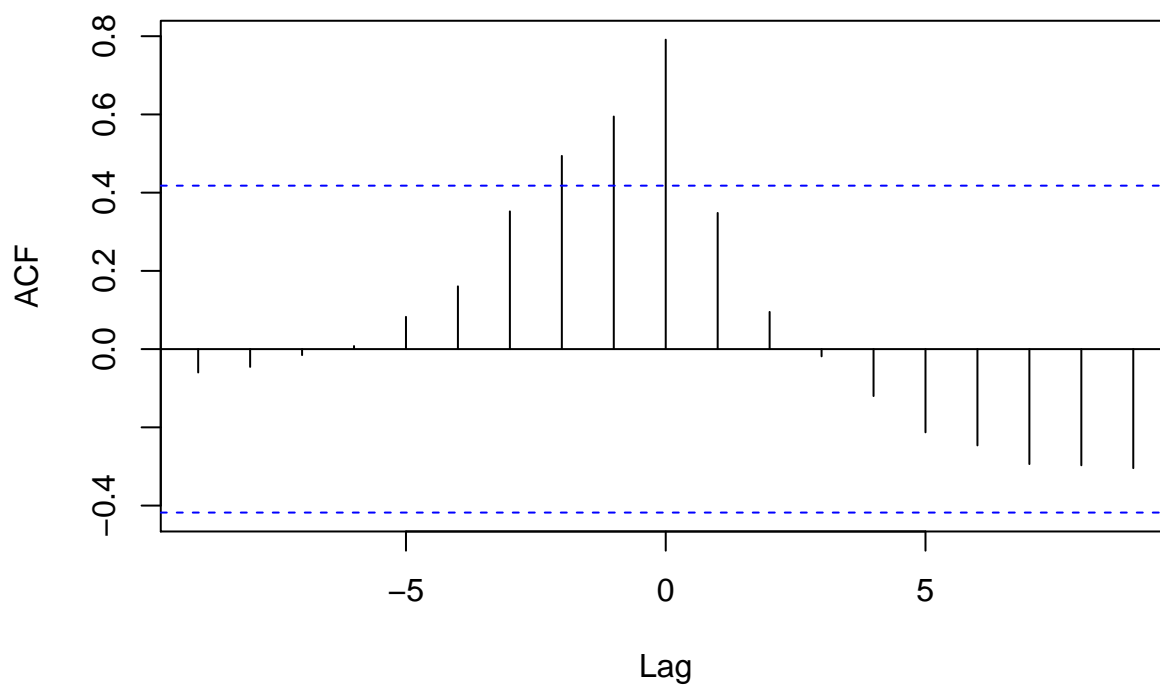
4 wk ahead – 04



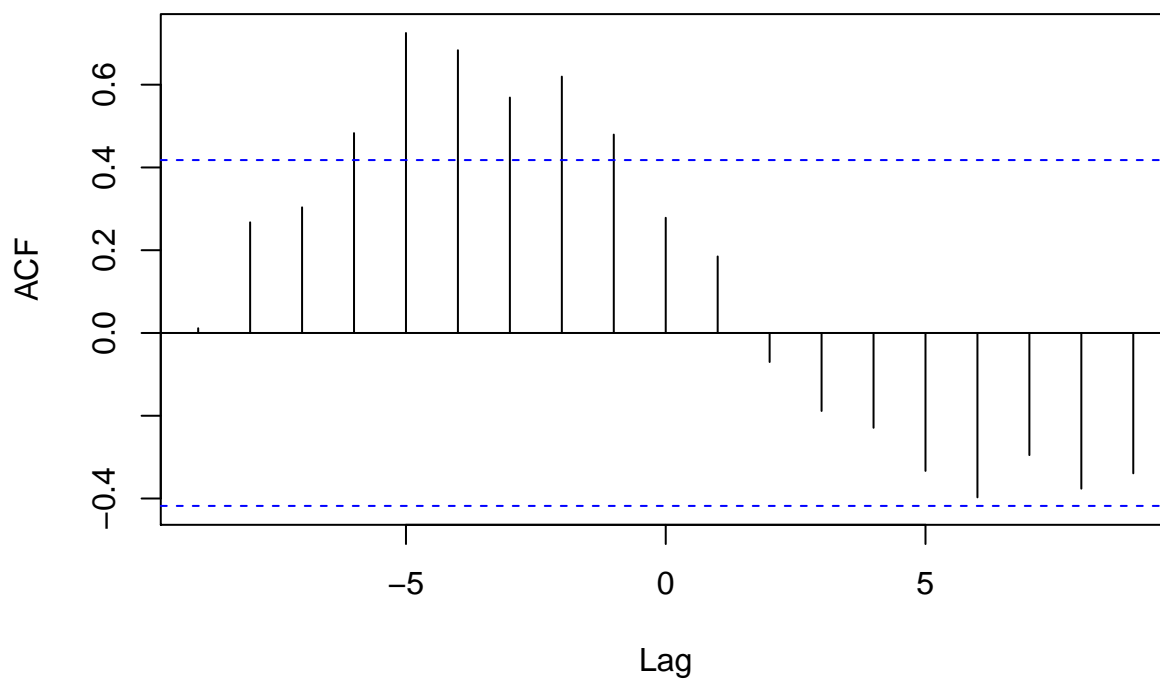
2 wk ahead – 05



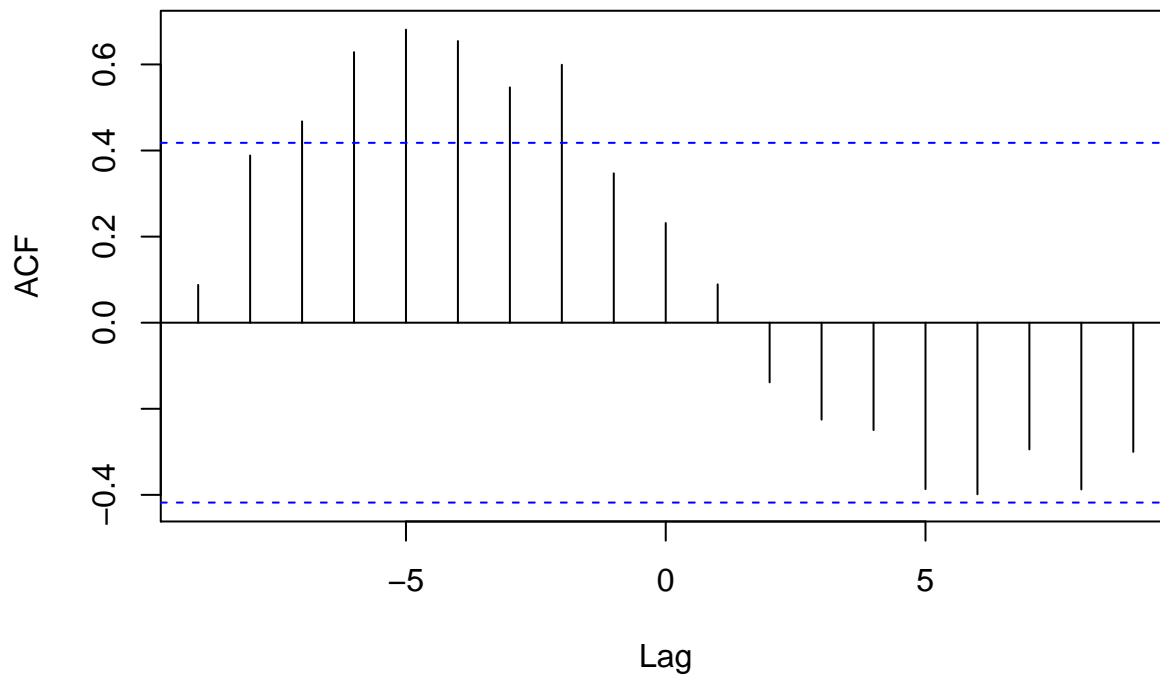
4 wk ahead – 05



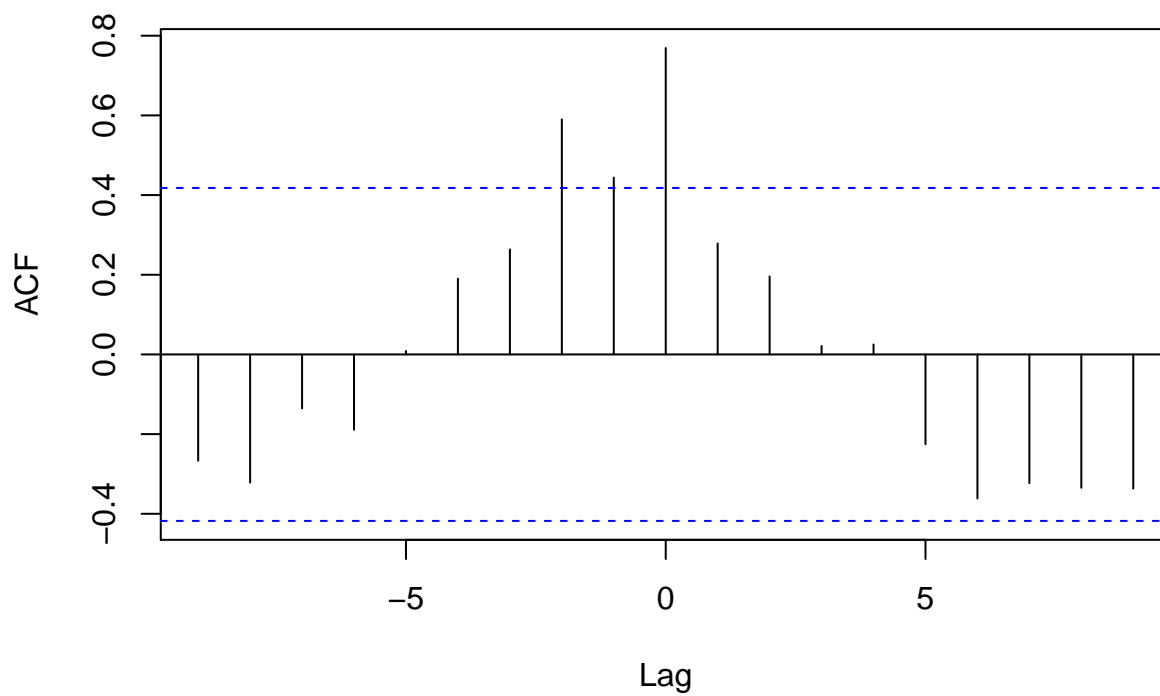
2 wk ahead – 06



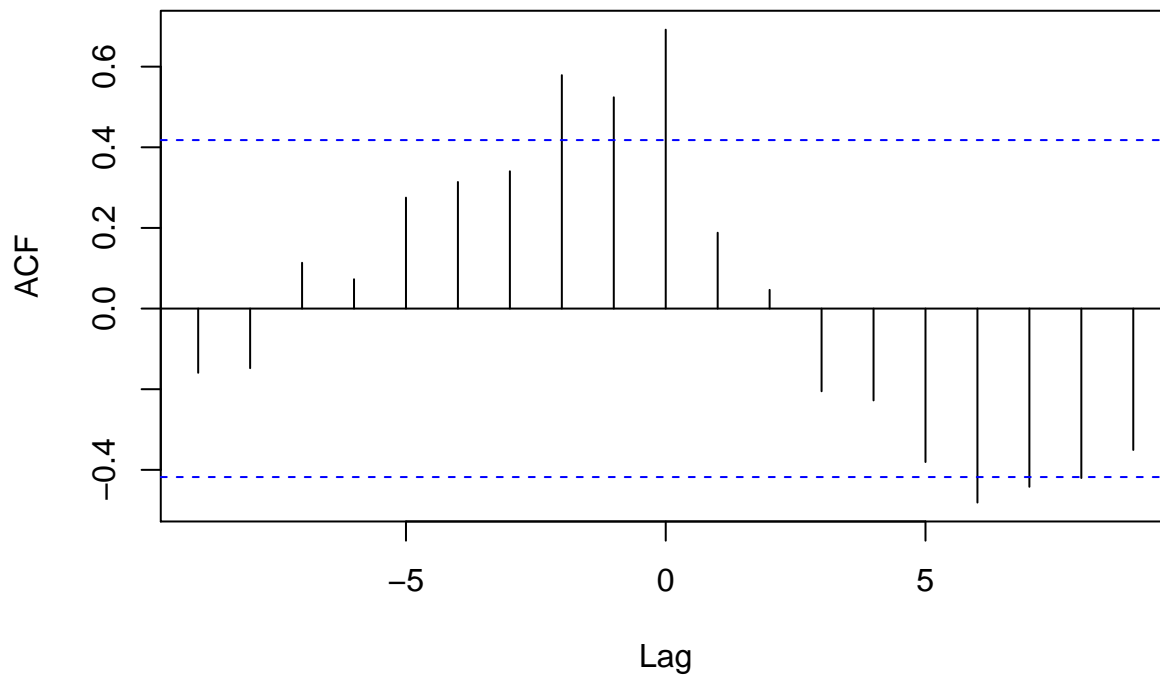
4 wk ahead – 06



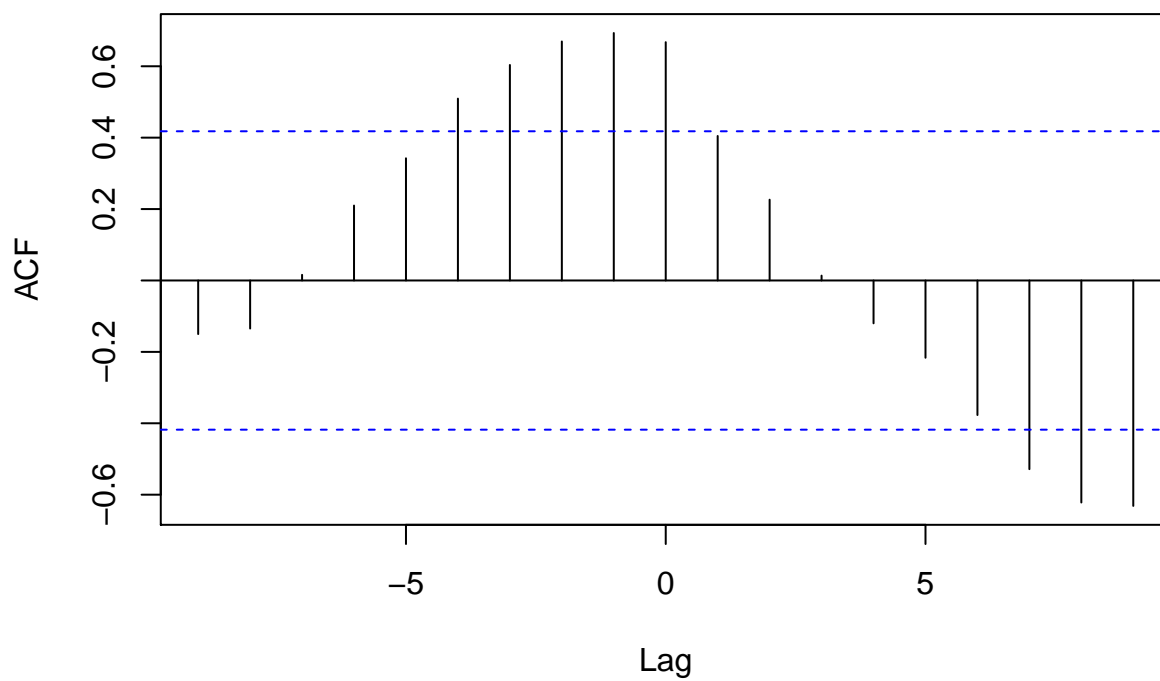
2 wk ahead – 08



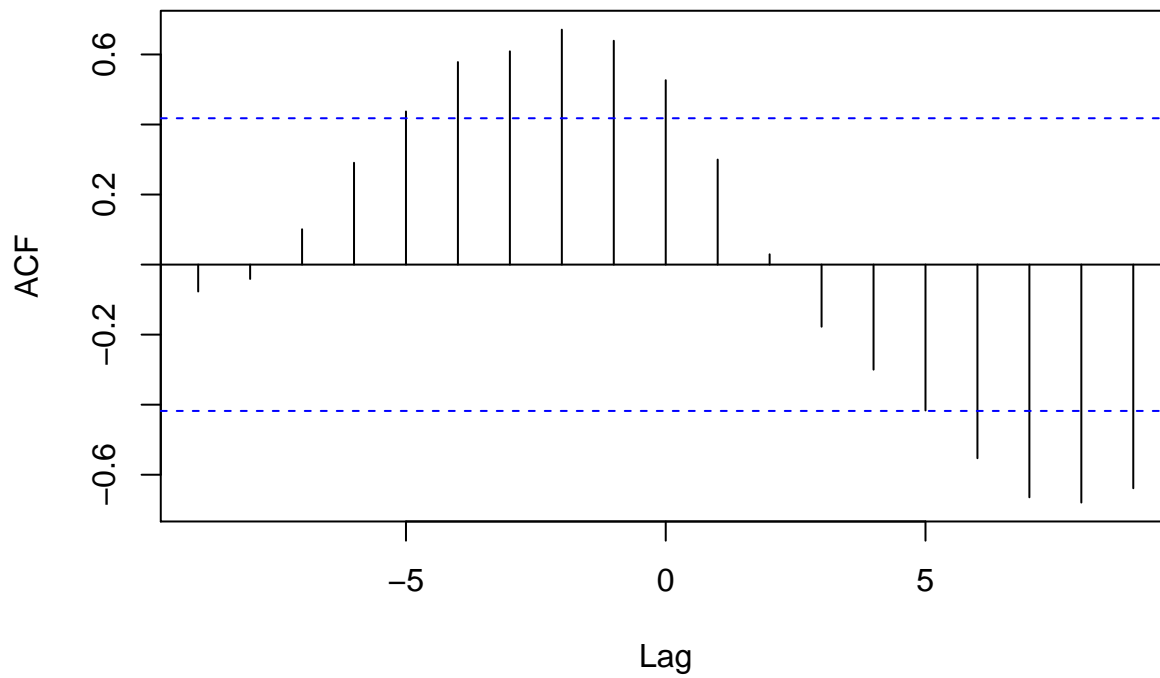
4 wk ahead – 08



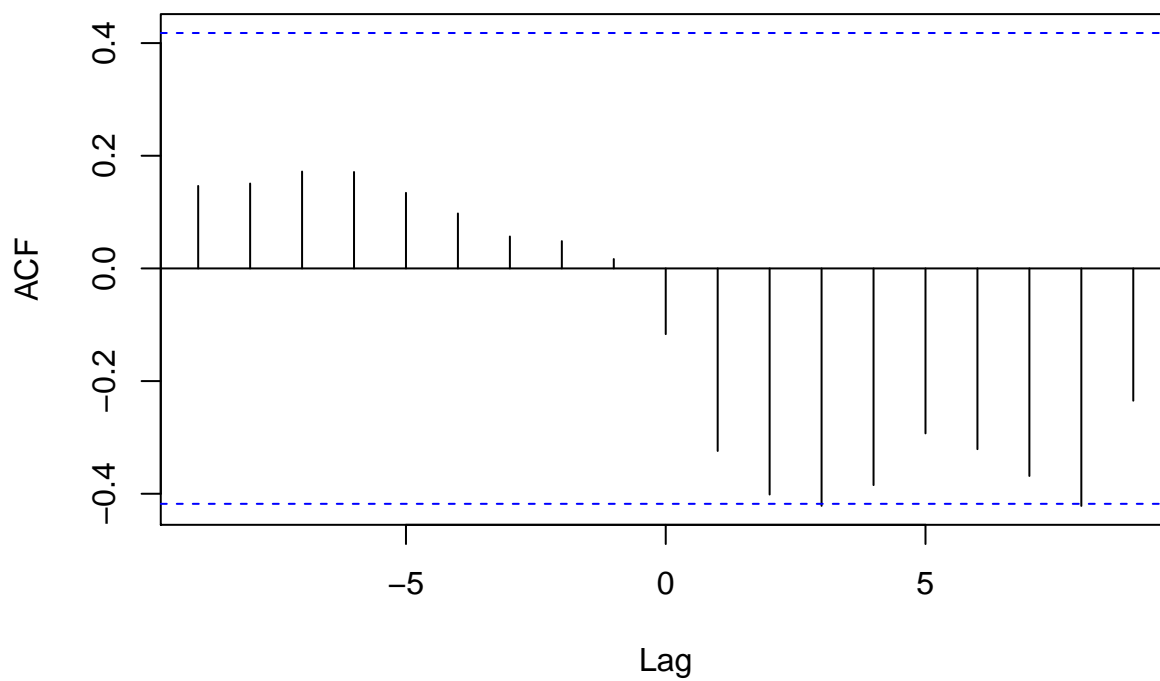
2 wk ahead – 09



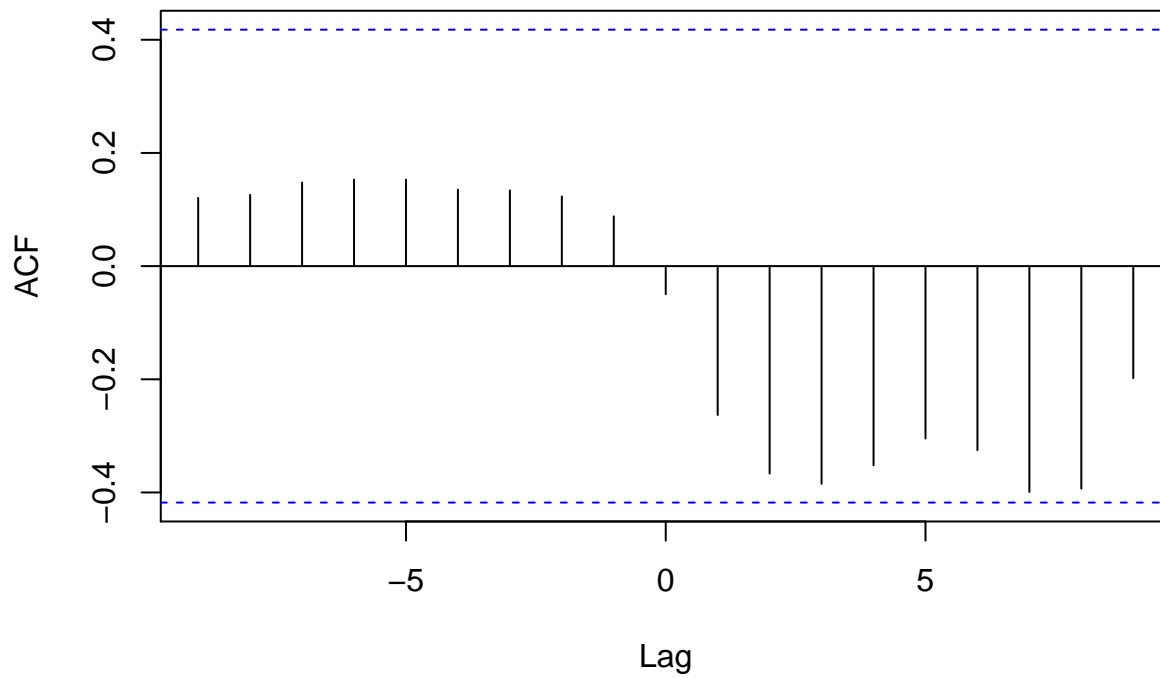
4 wk ahead – 09



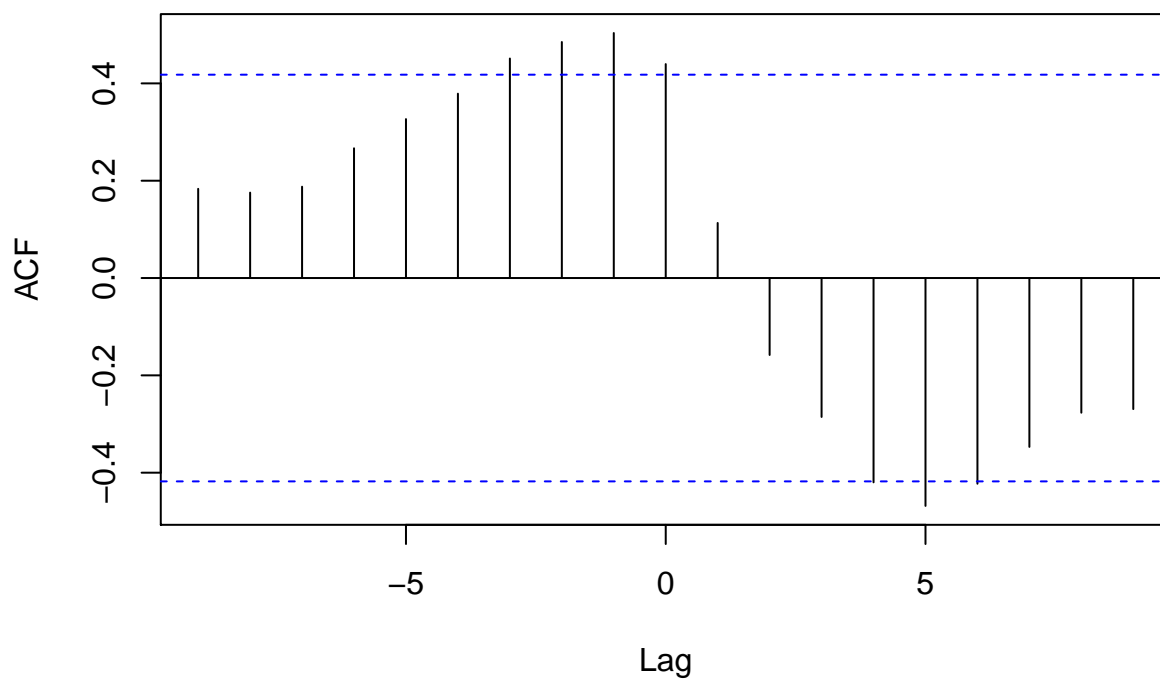
2 wk ahead – 12



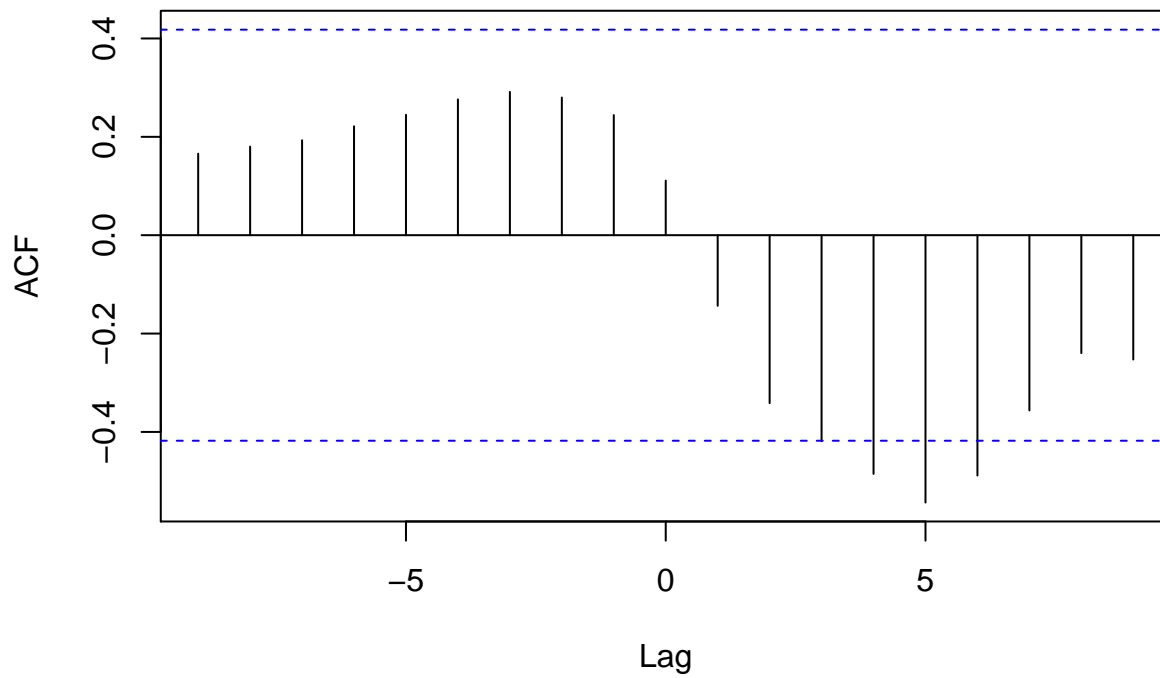
4 wk ahead – 12



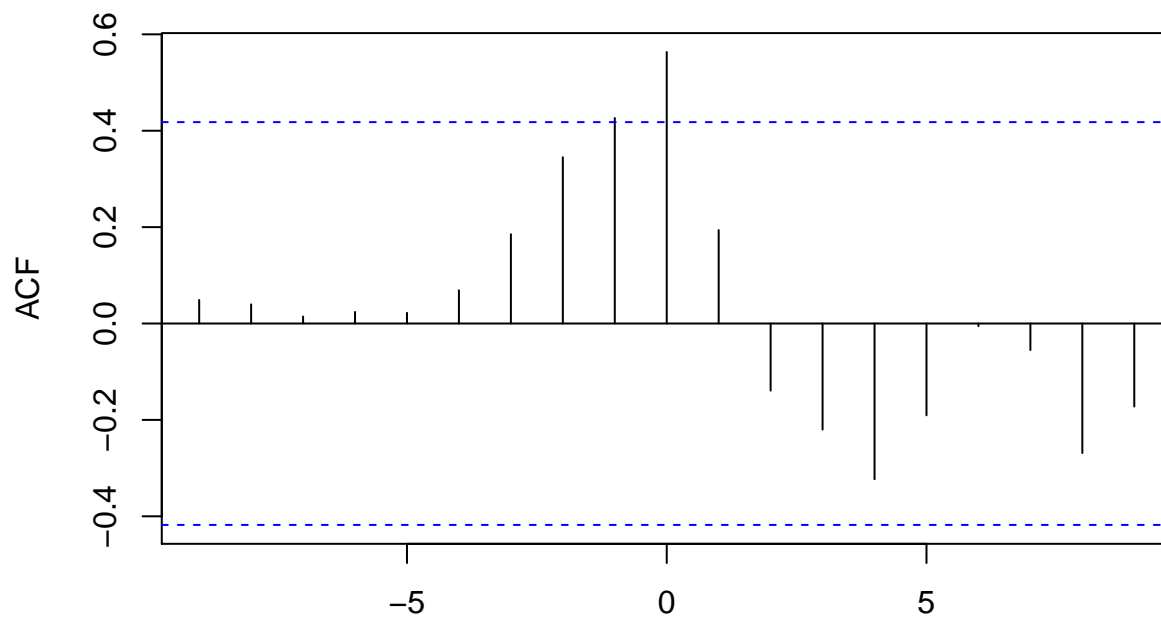
2 wk ahead – 13



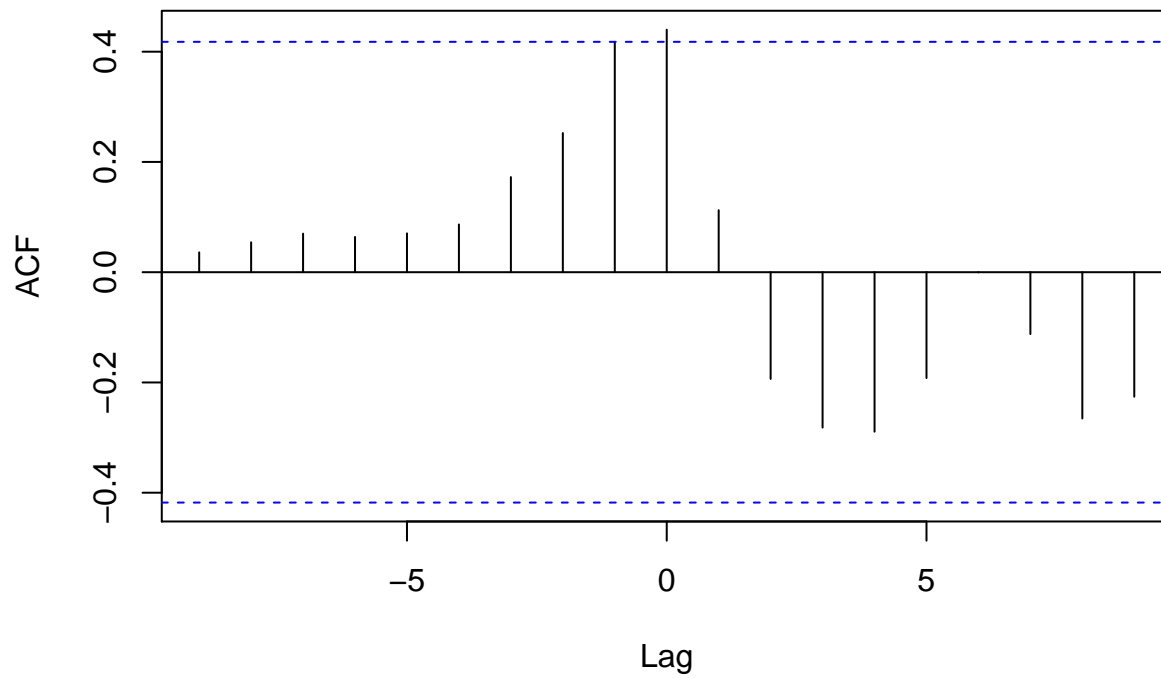
4 wk ahead – 13



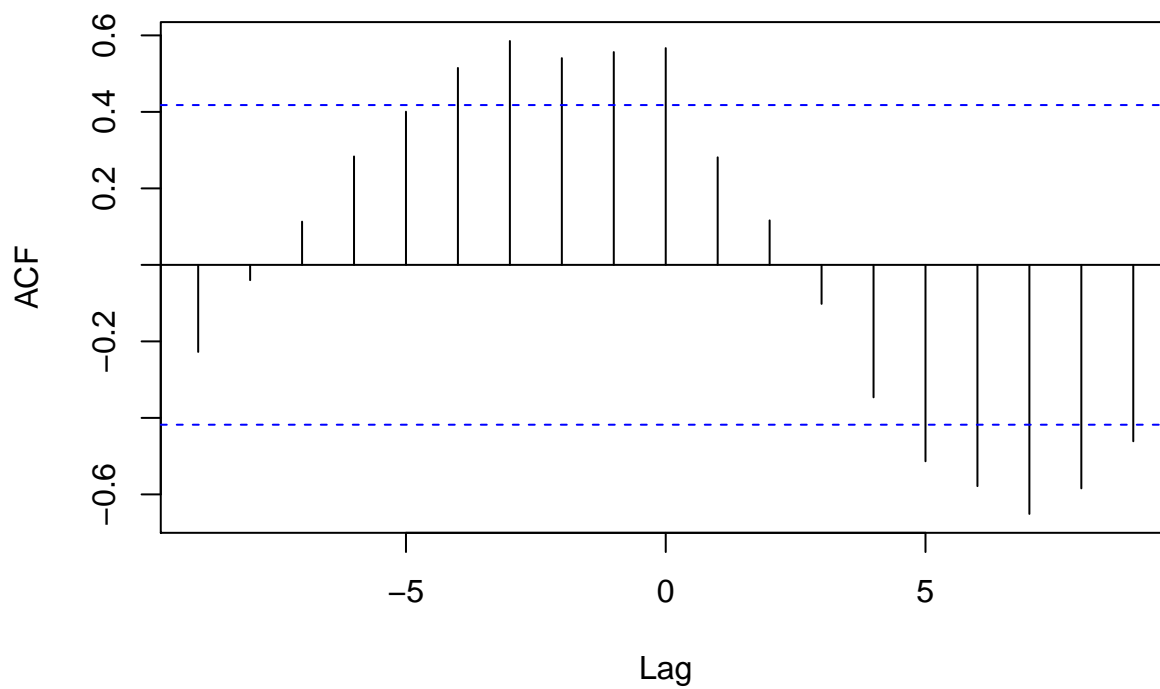
2 wk ahead – 16



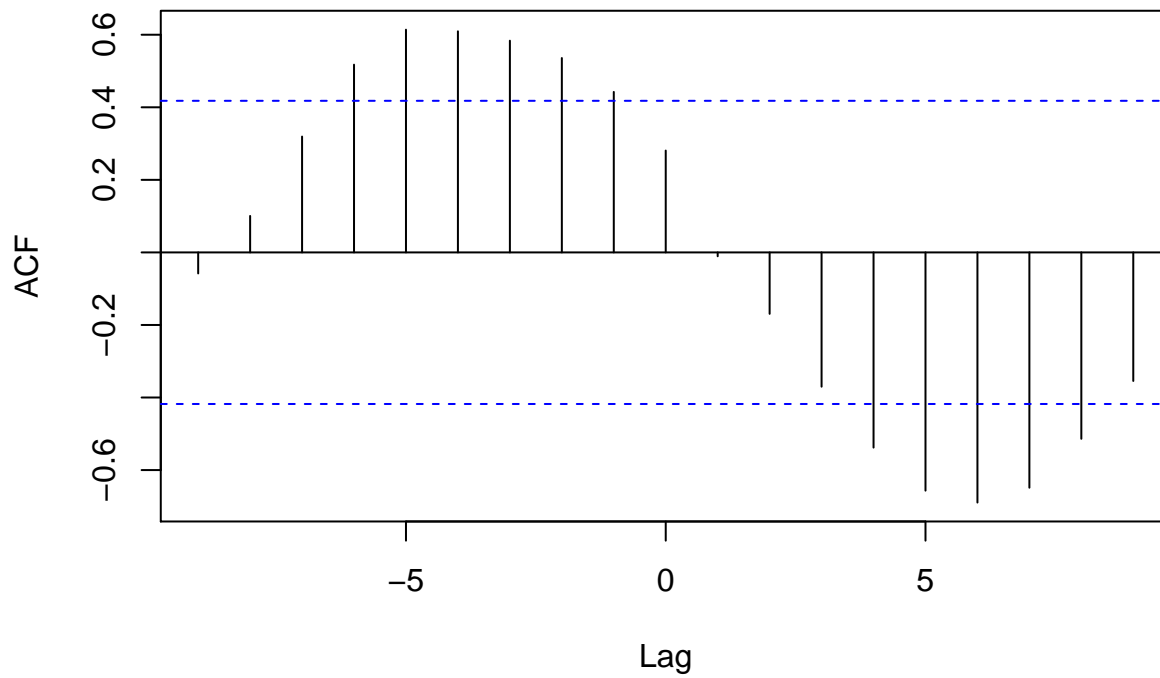
4 wk ahead – 16



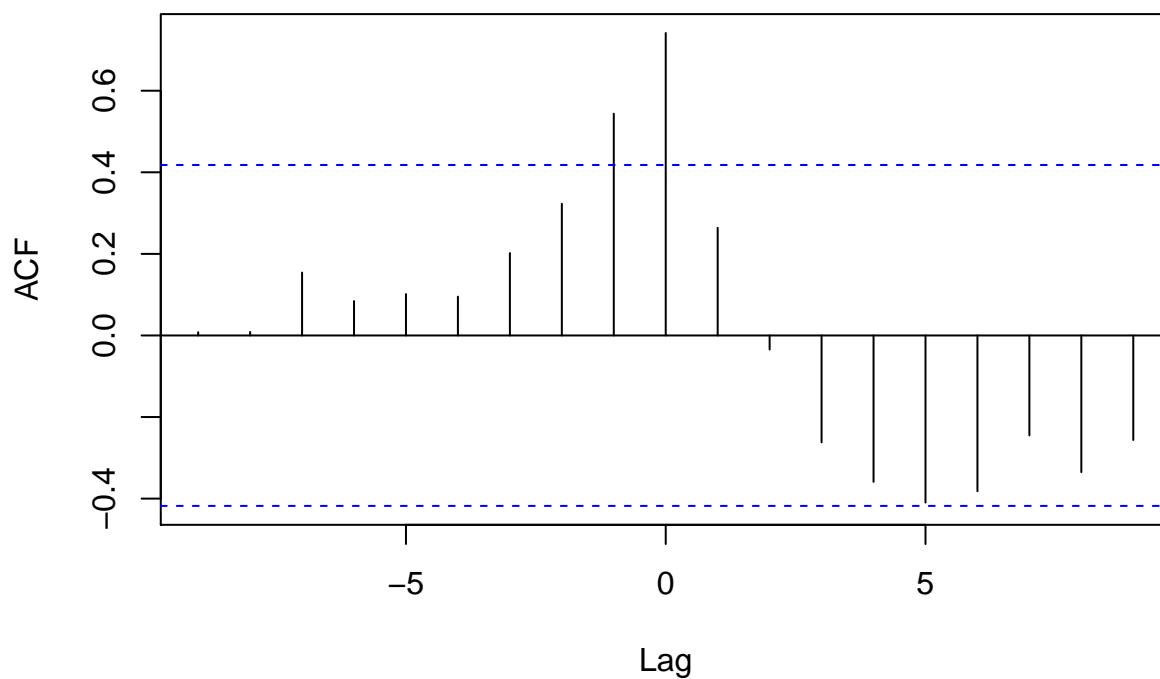
2 wk ahead – 17



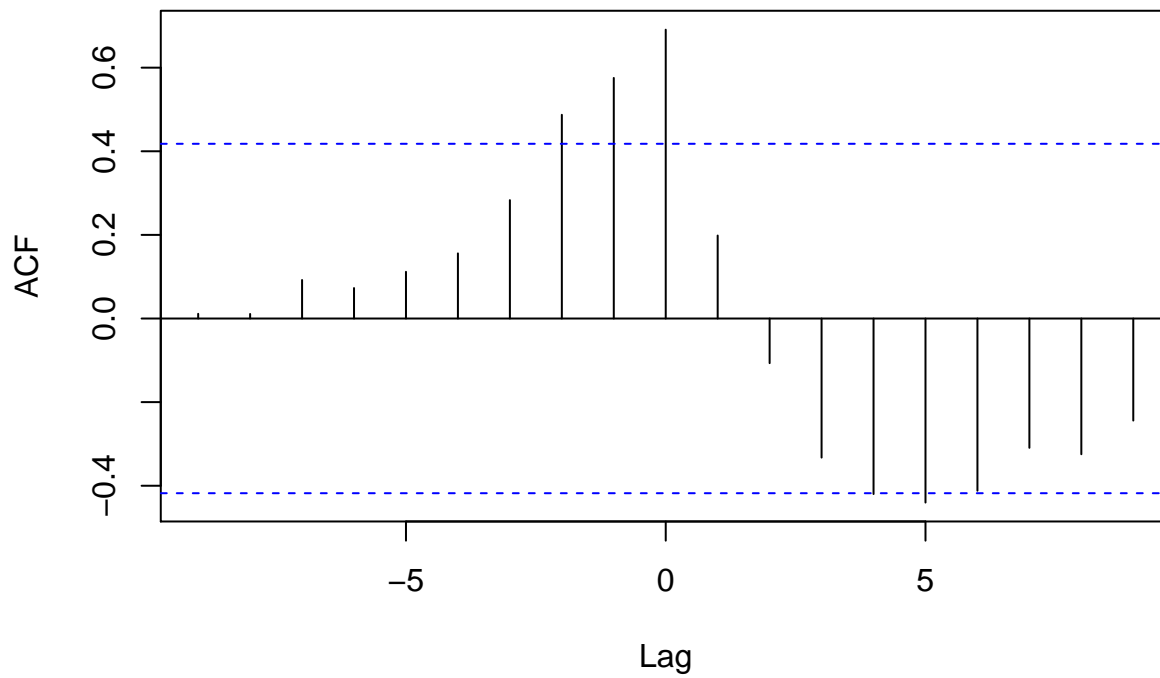
4 wk ahead – 17



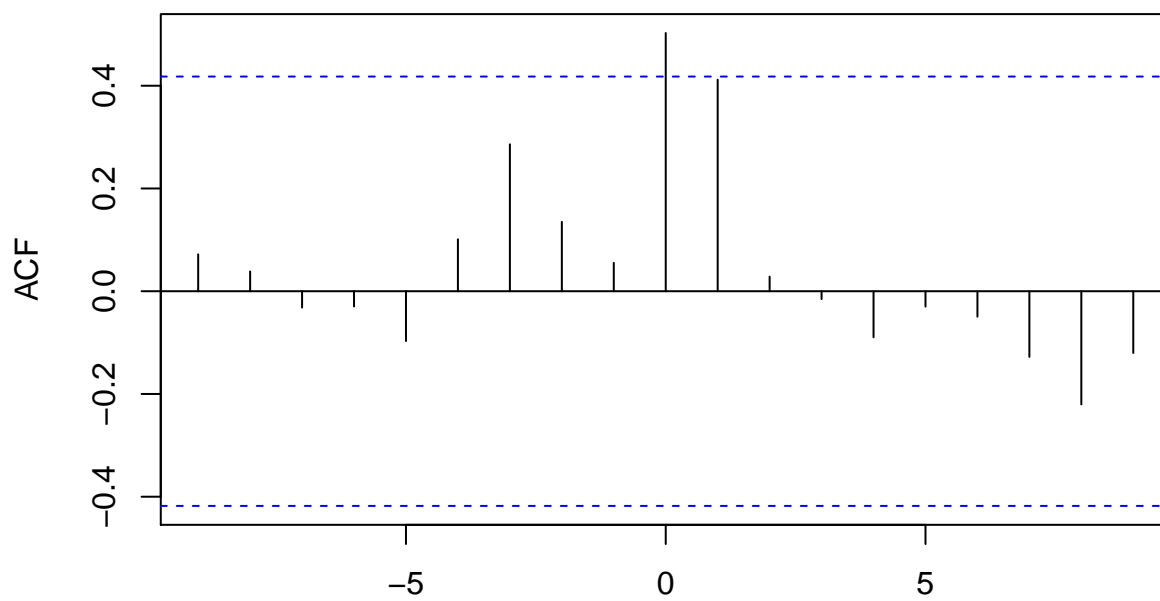
2 wk ahead – 18



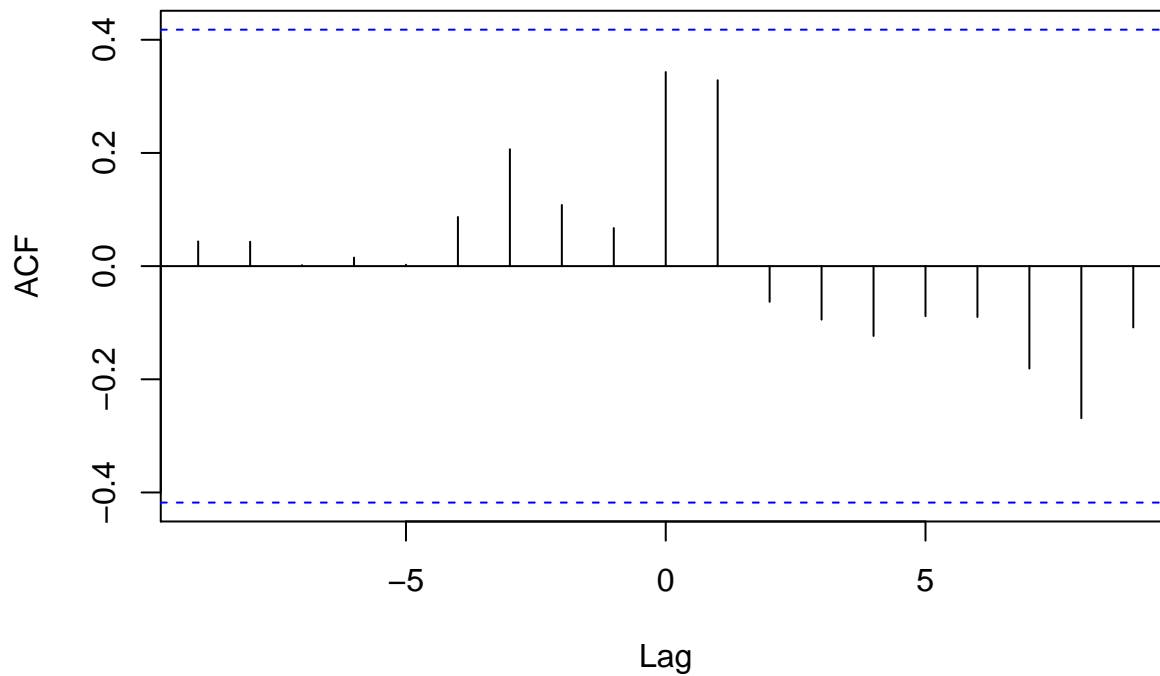
4 wk ahead – 18



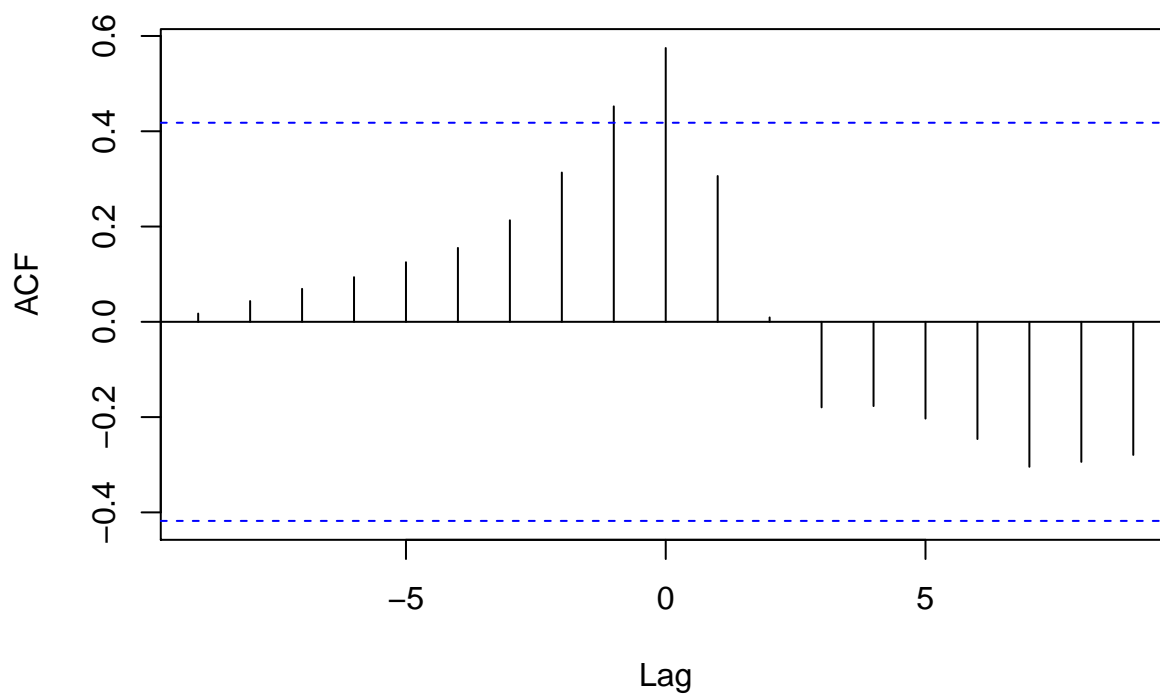
2 wk ahead – 20



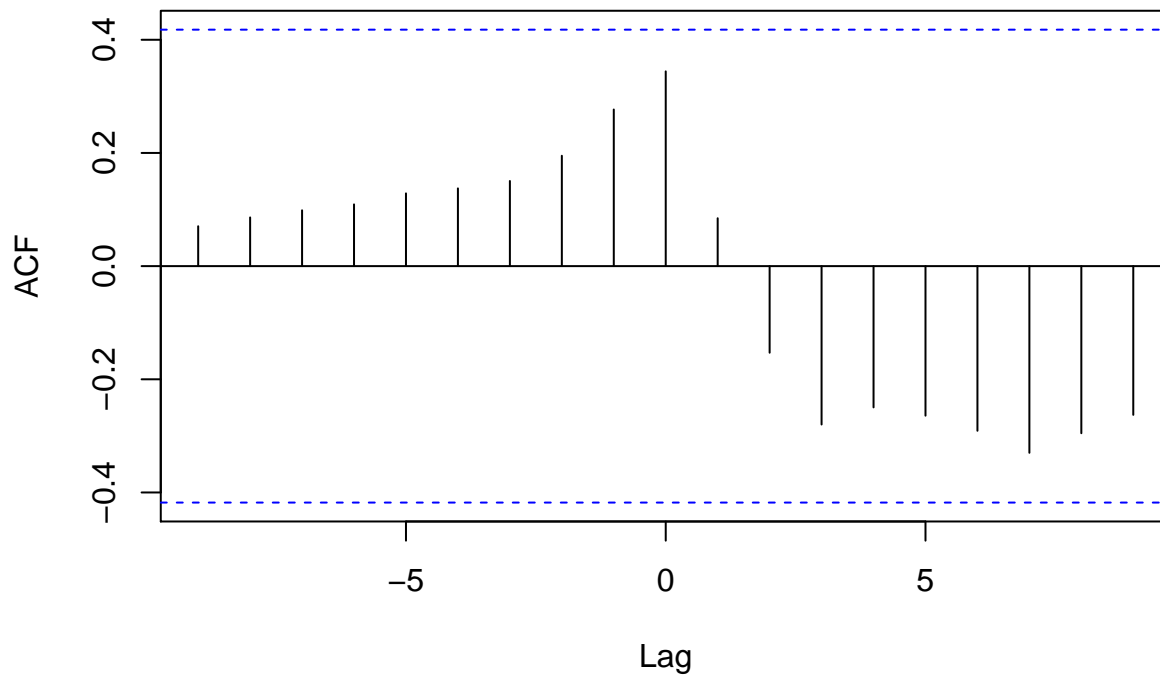
4 wk ahead – 20



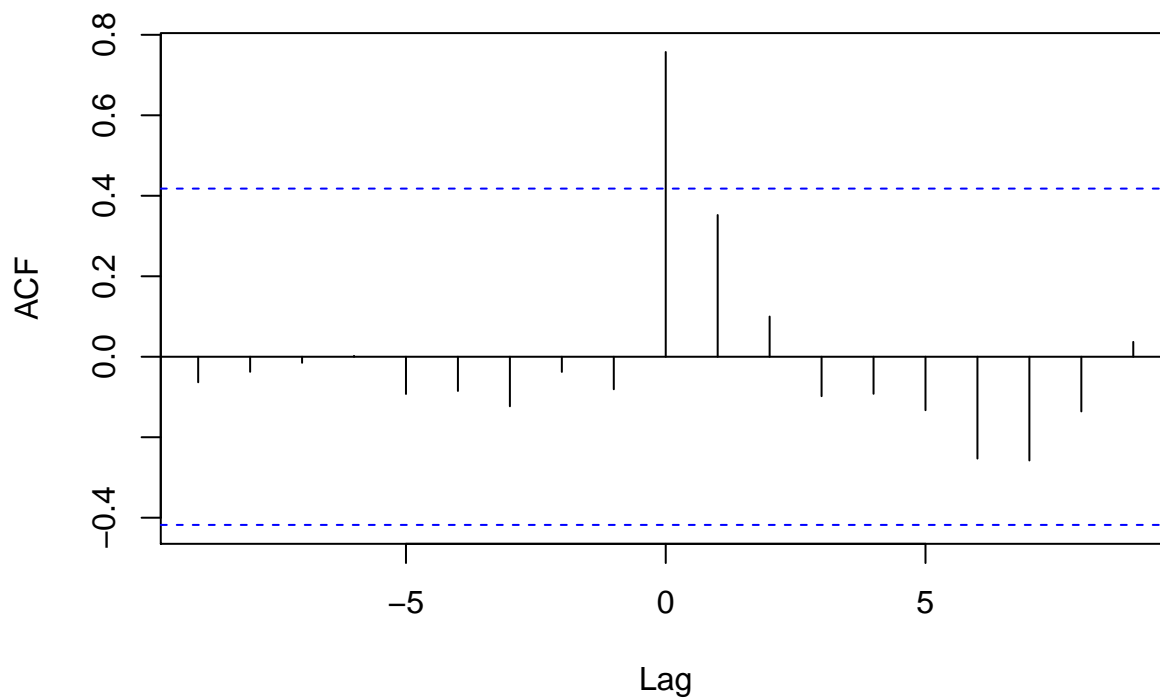
2 wk ahead – 22



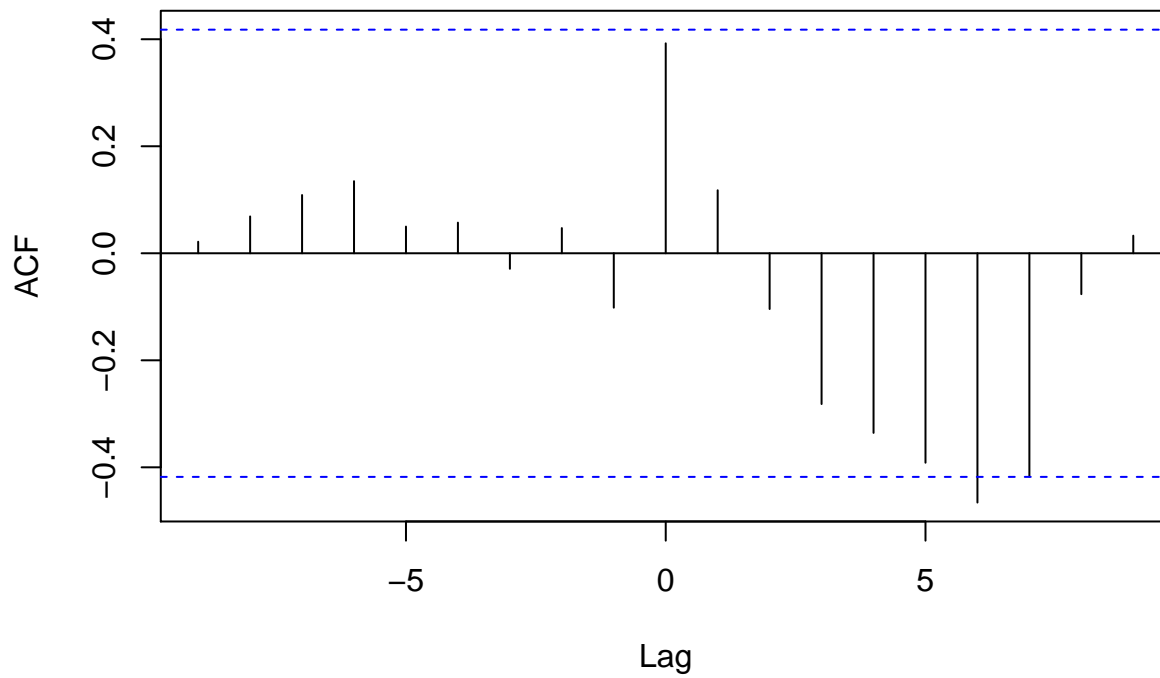
4 wk ahead – 22



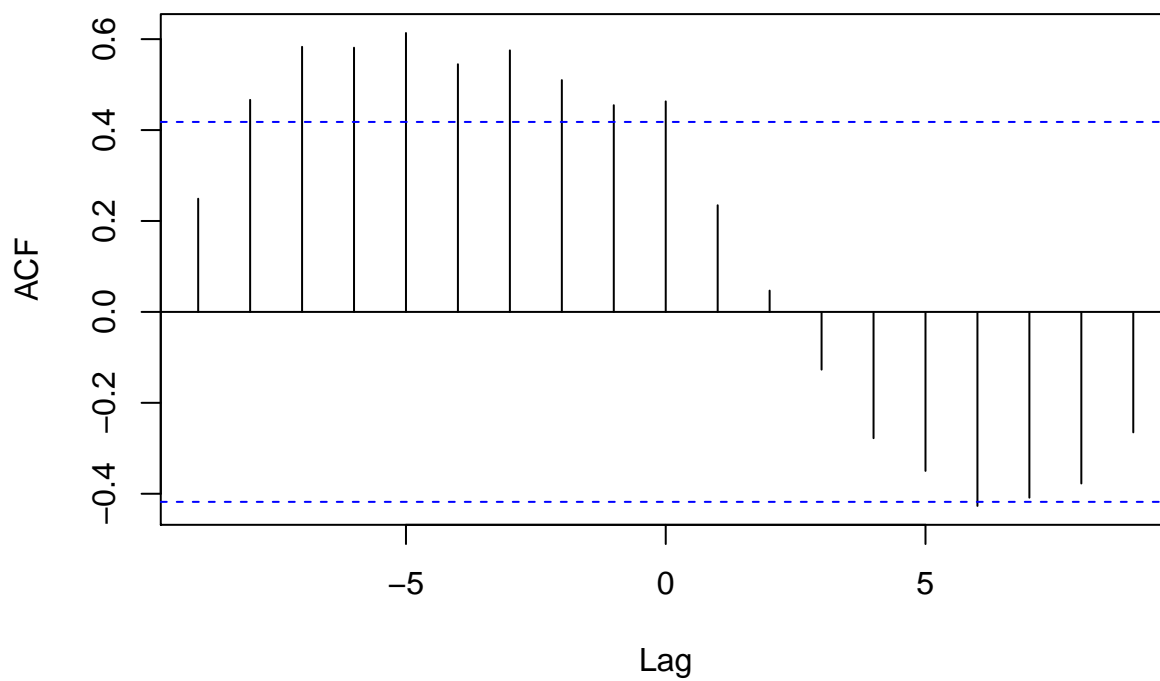
2 wk ahead – 24



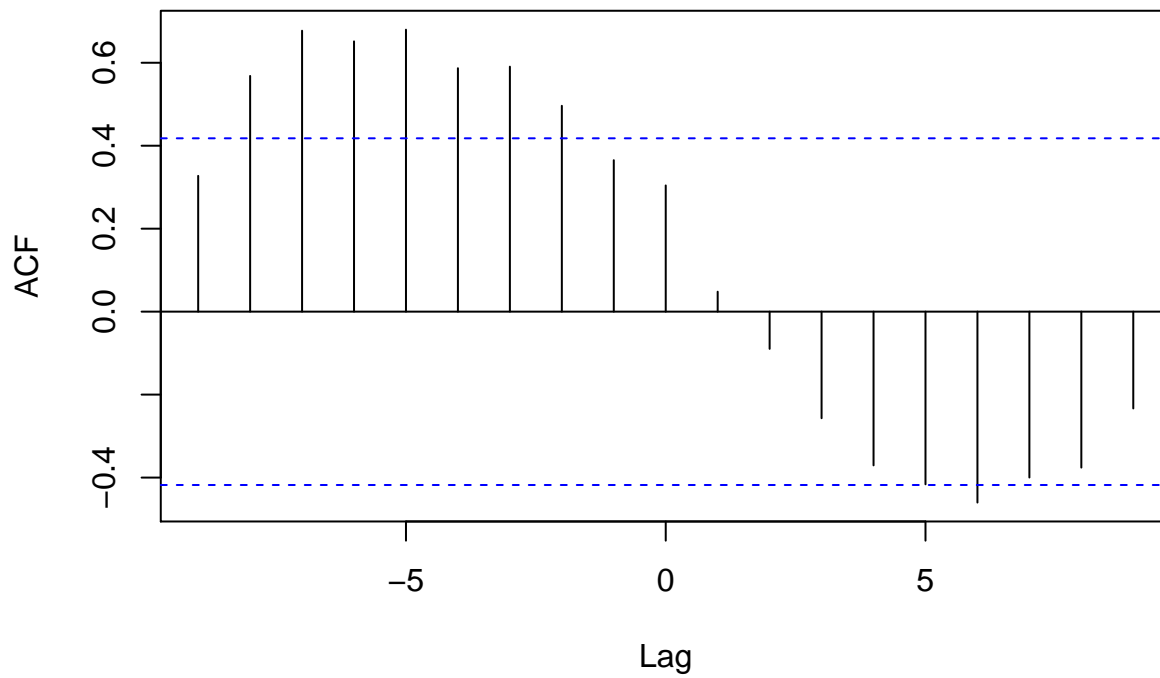
4 wk ahead – 24



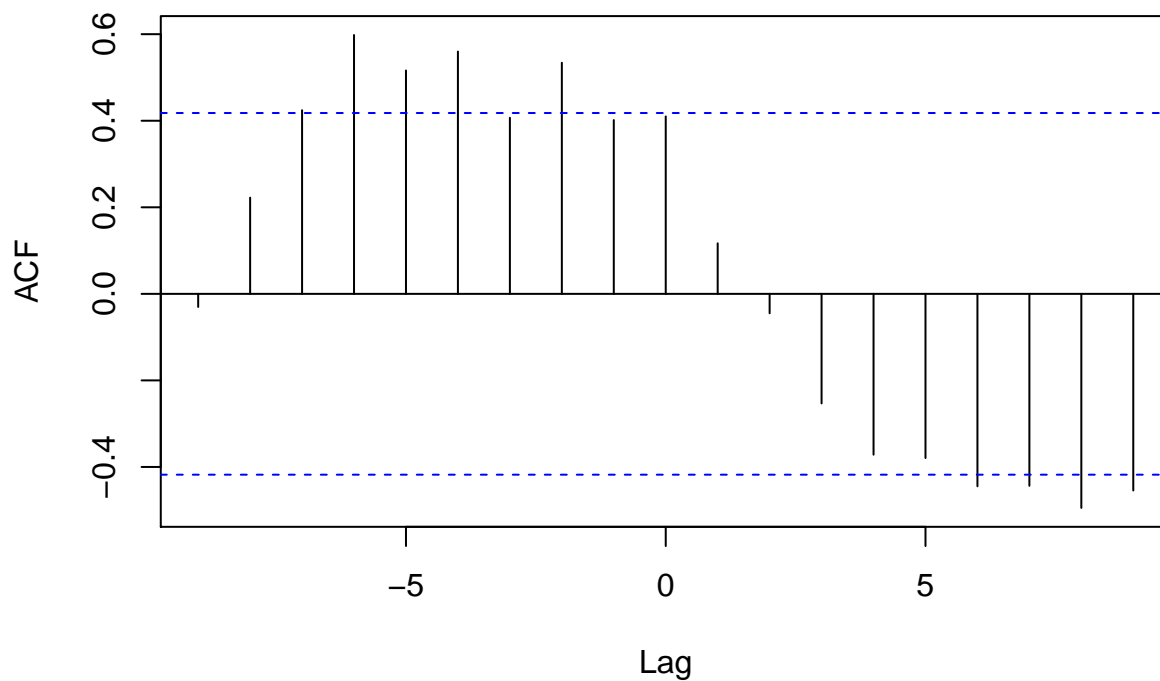
2 wk ahead – 25



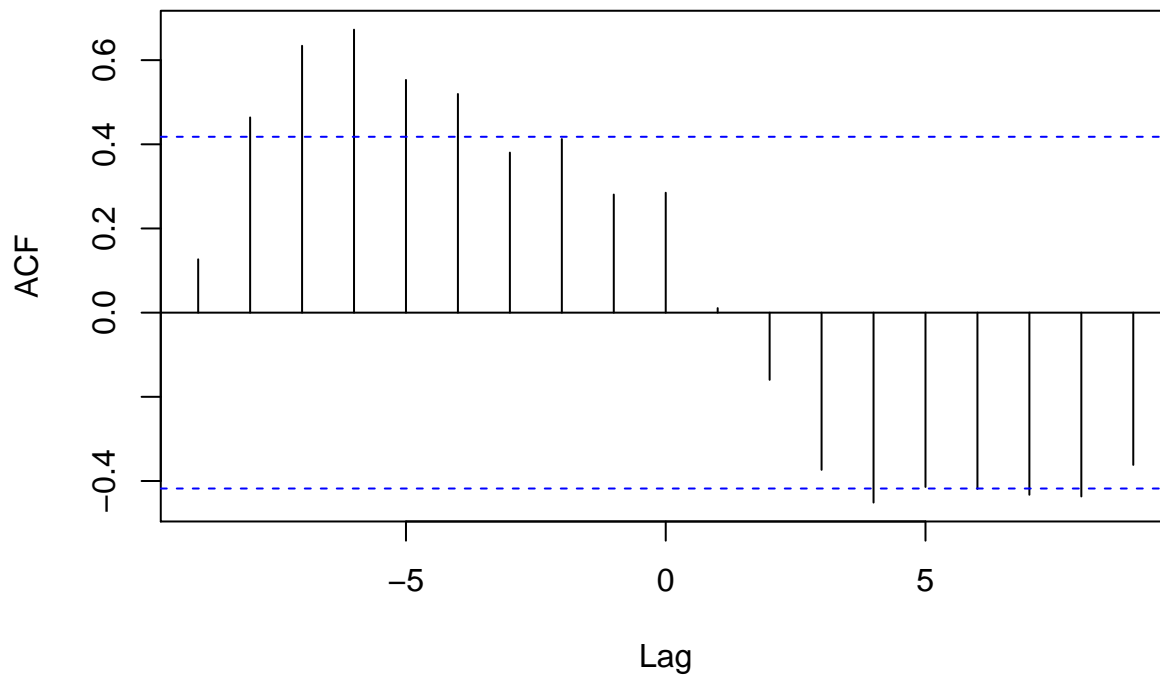
4 wk ahead – 25



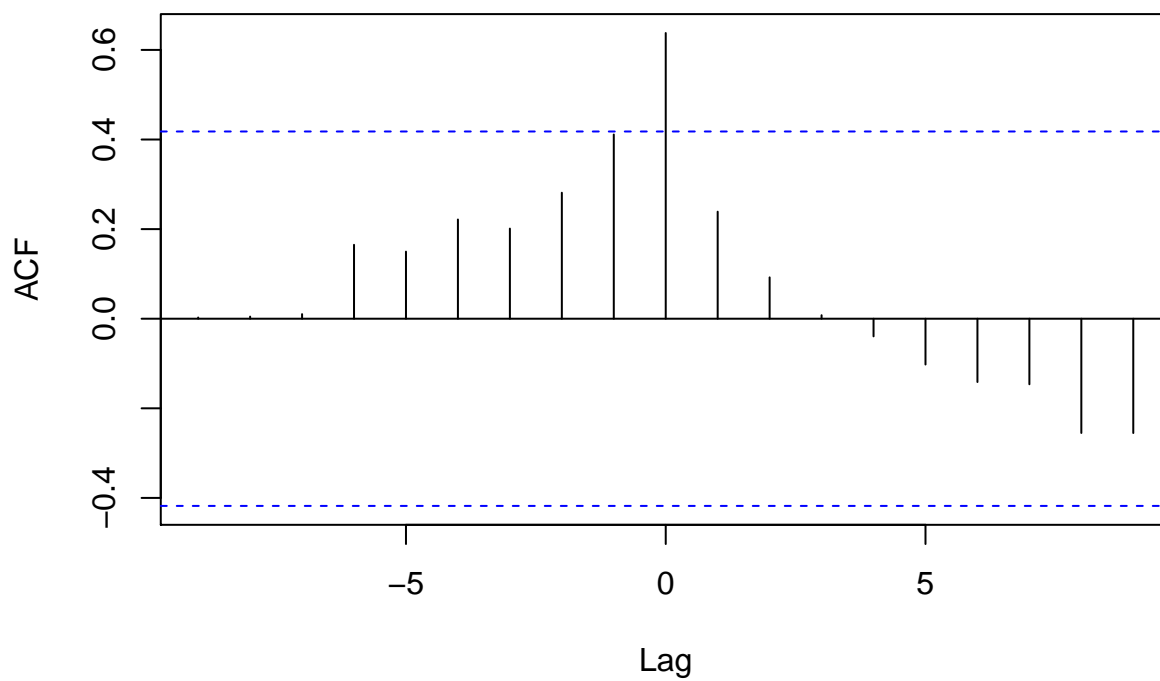
2 wk ahead – 27



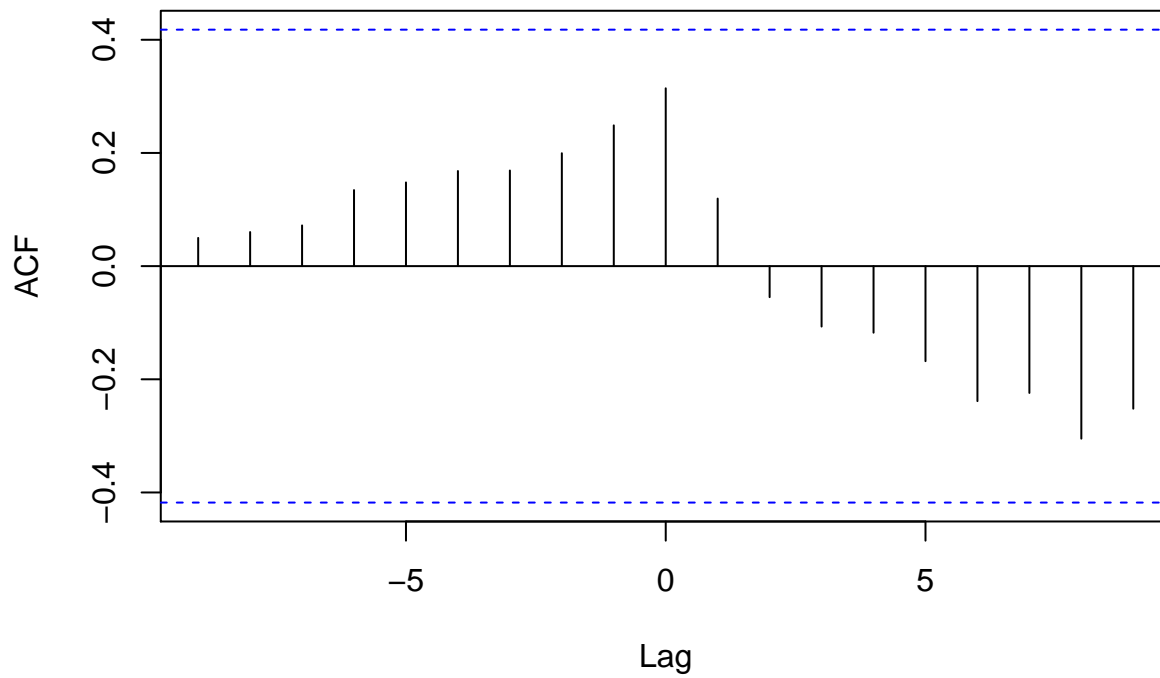
4 wk ahead – 27



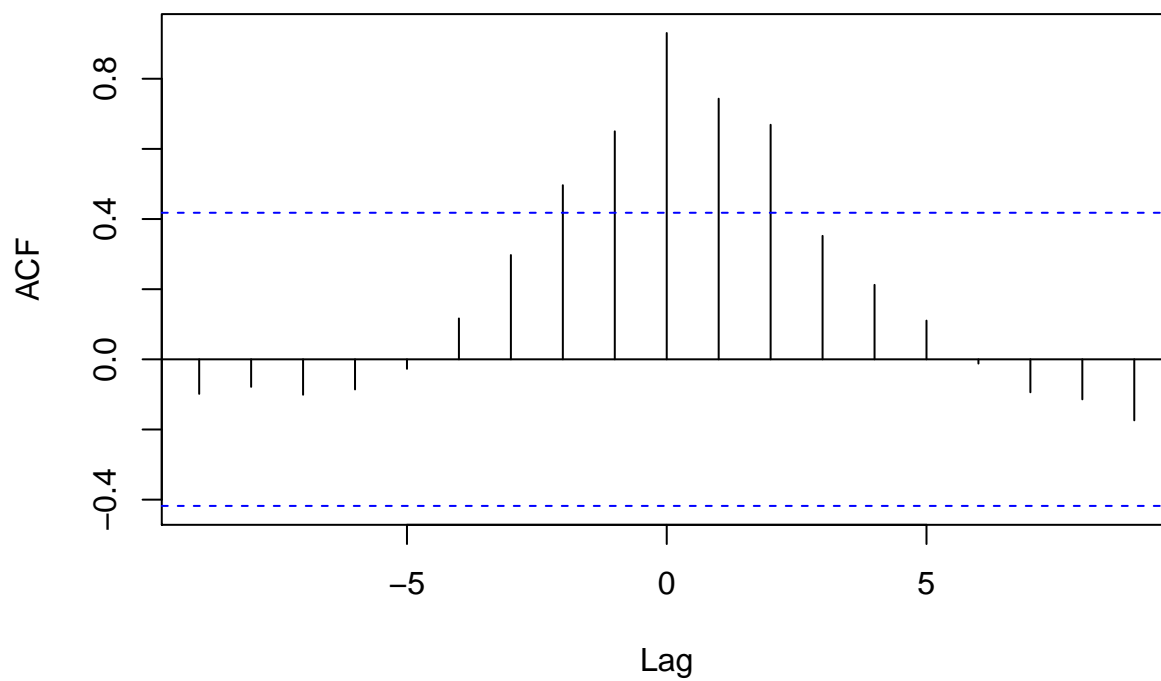
2 wk ahead – 28



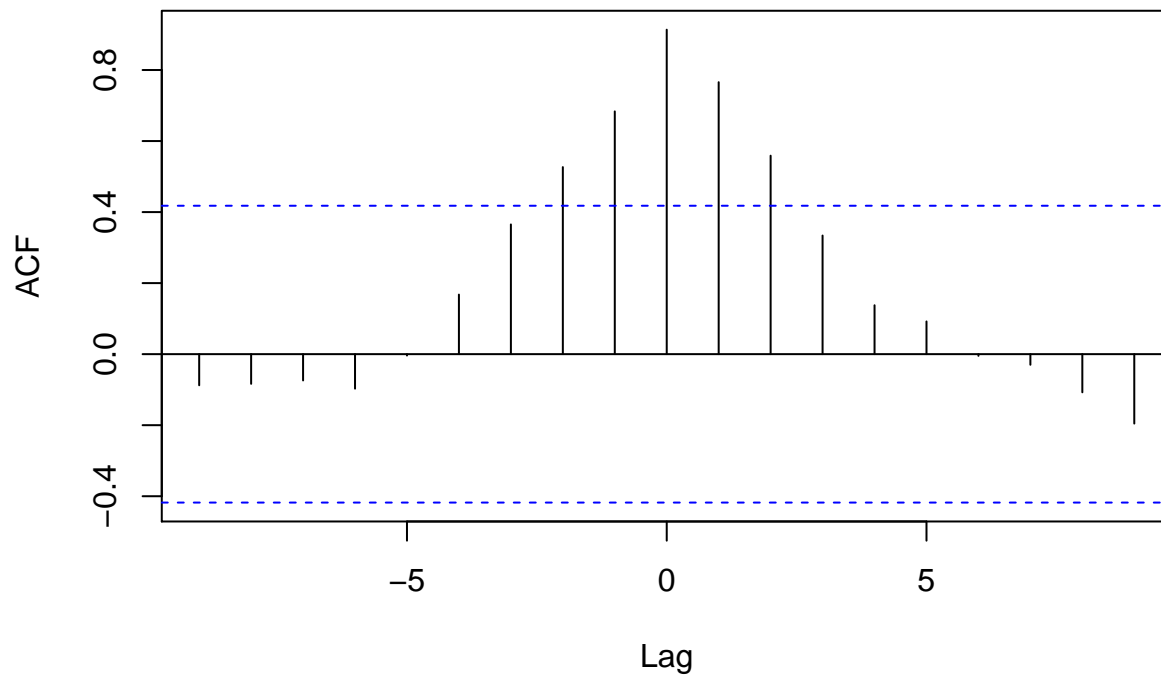
4 wk ahead – 28



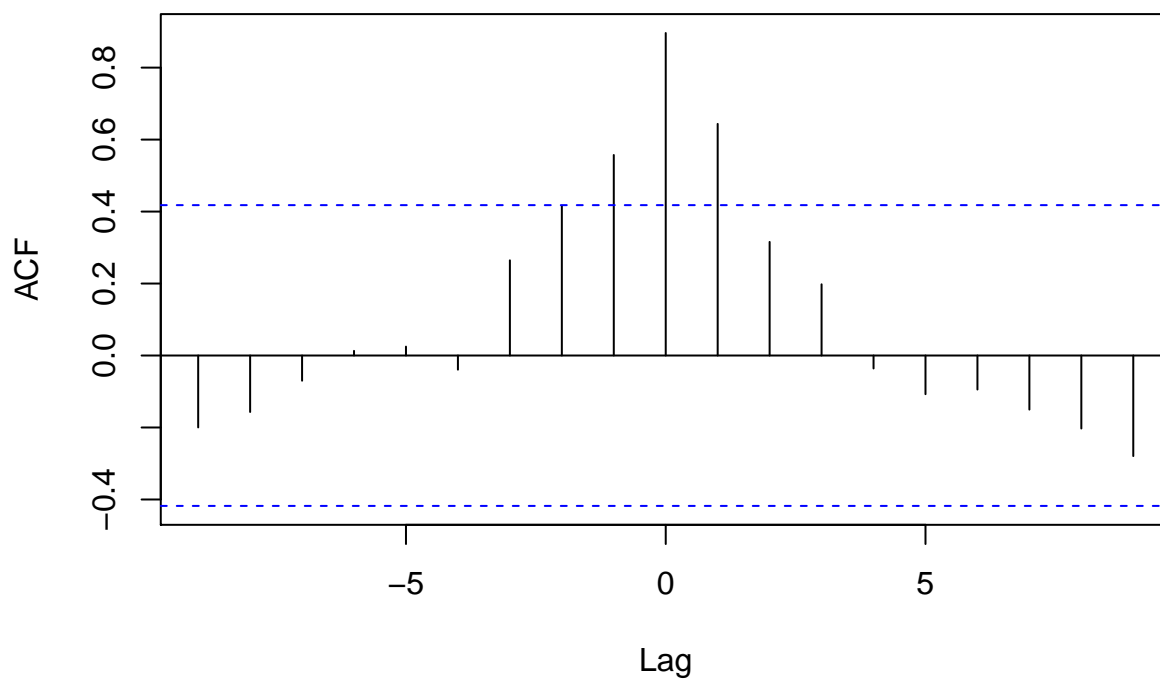
2 wk ahead – 29



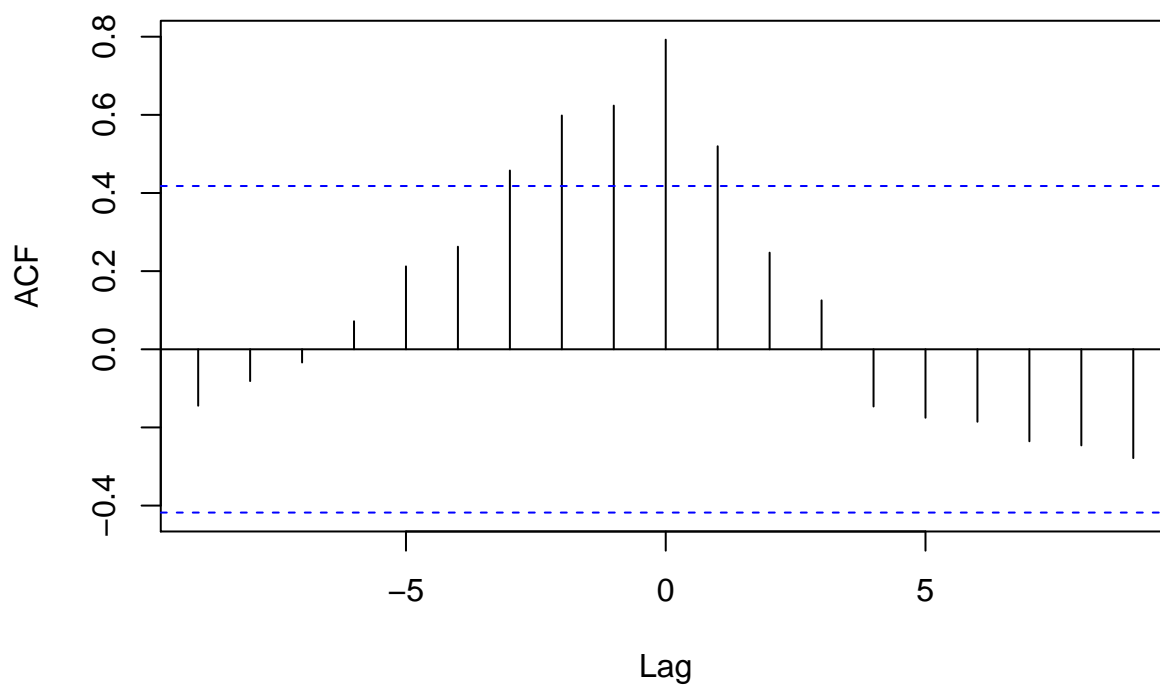
4 wk ahead – 29



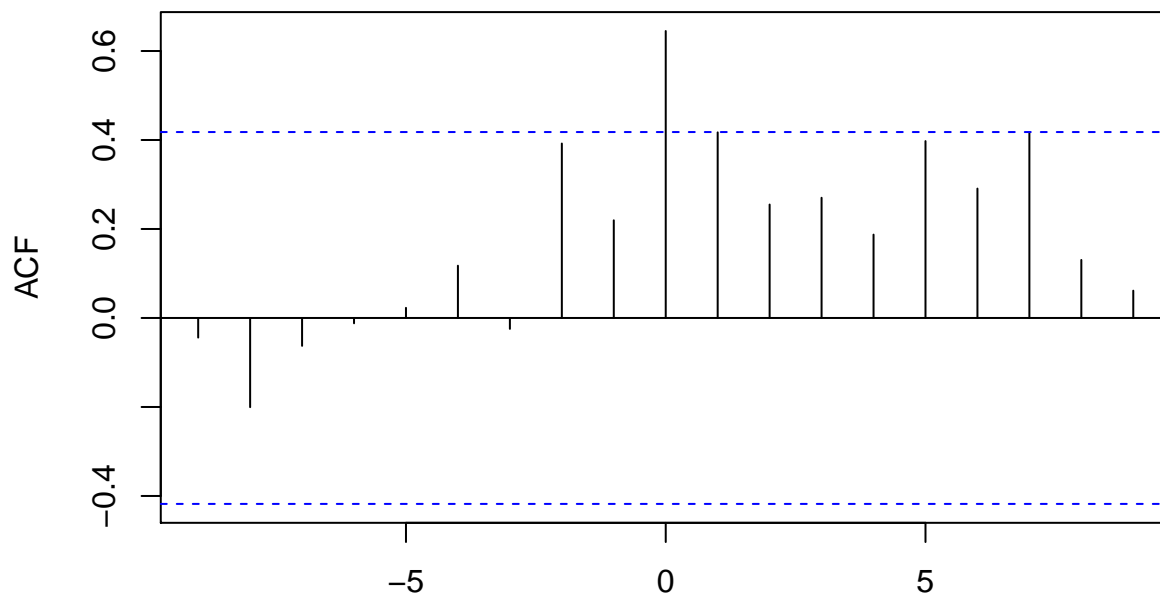
2 wk ahead – 30



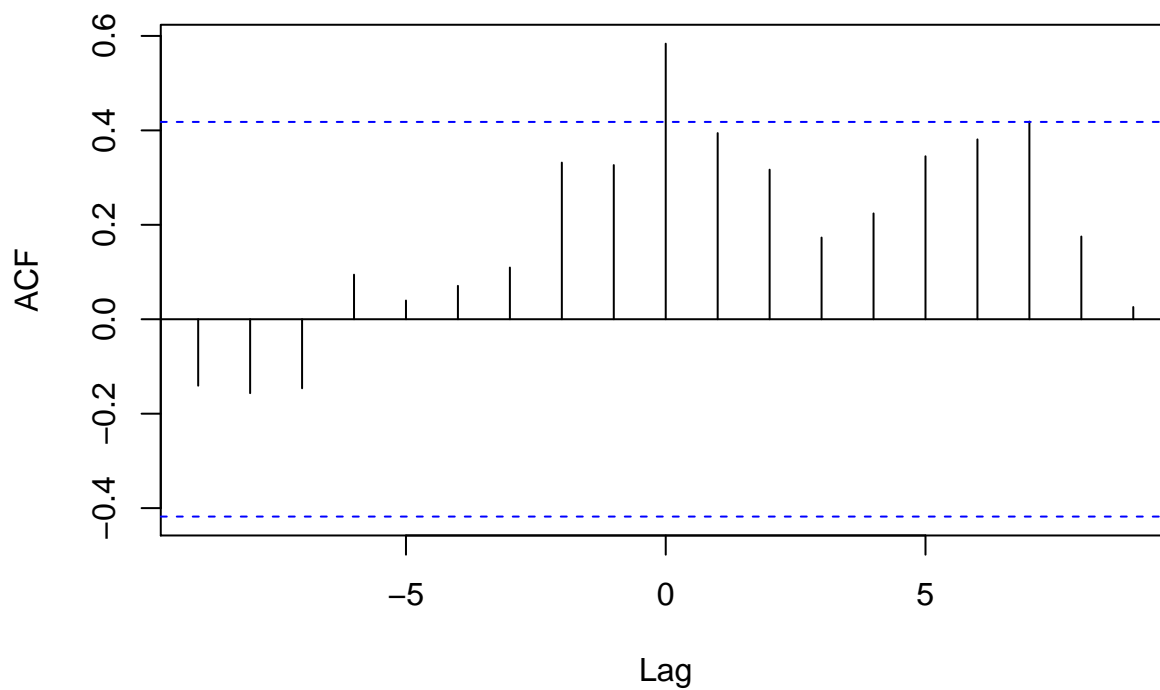
4 wk ahead – 30



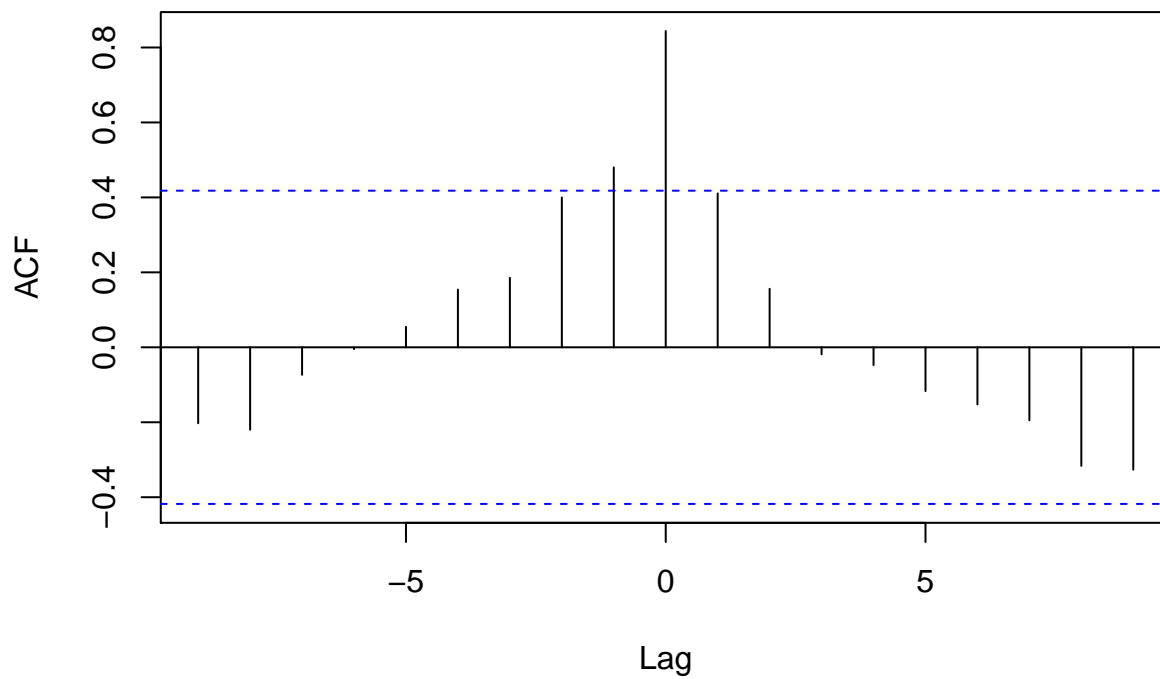
2 wk ahead – 31



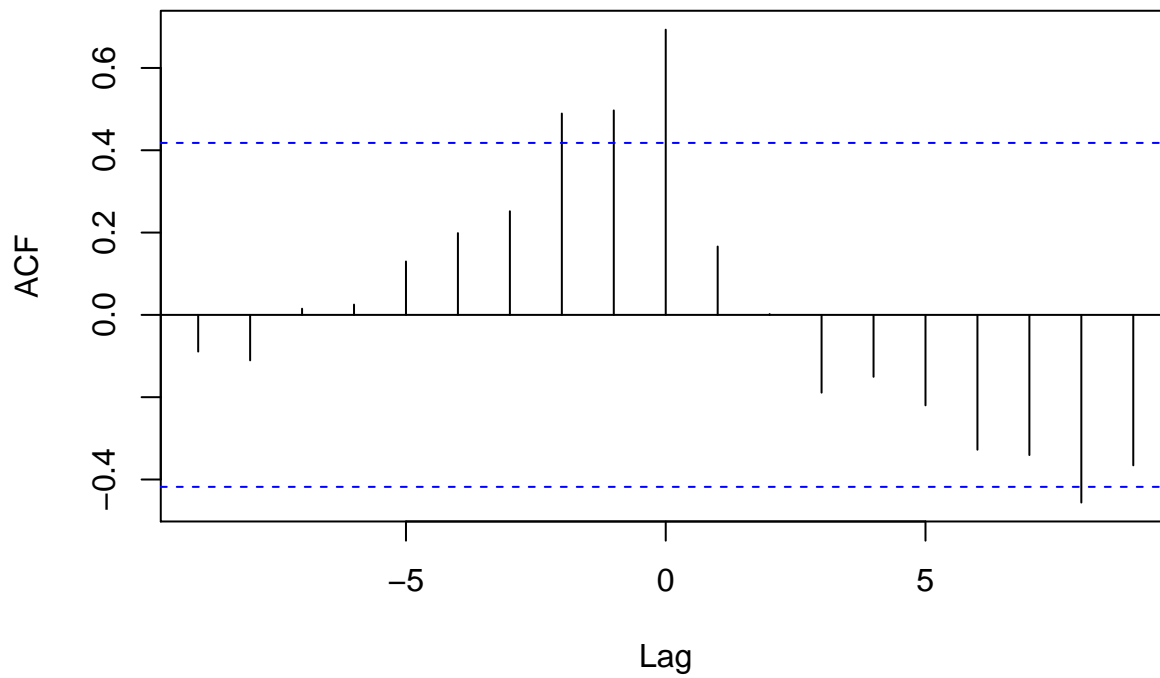
4 wk ahead – 31



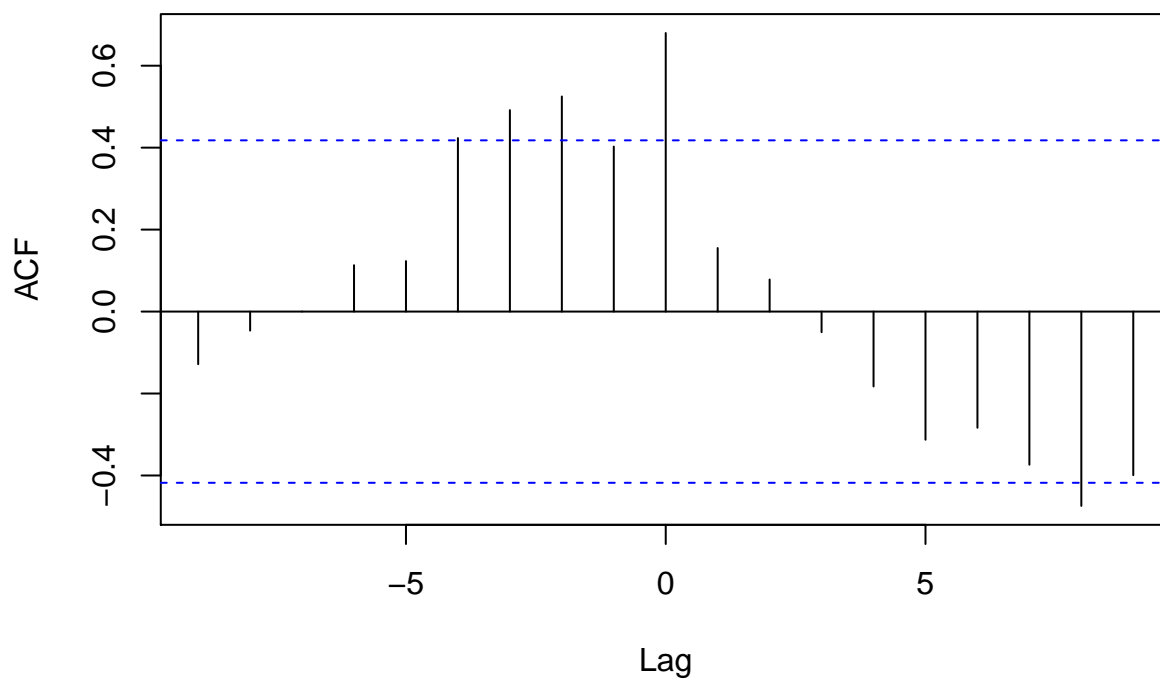
2 wk ahead – 32



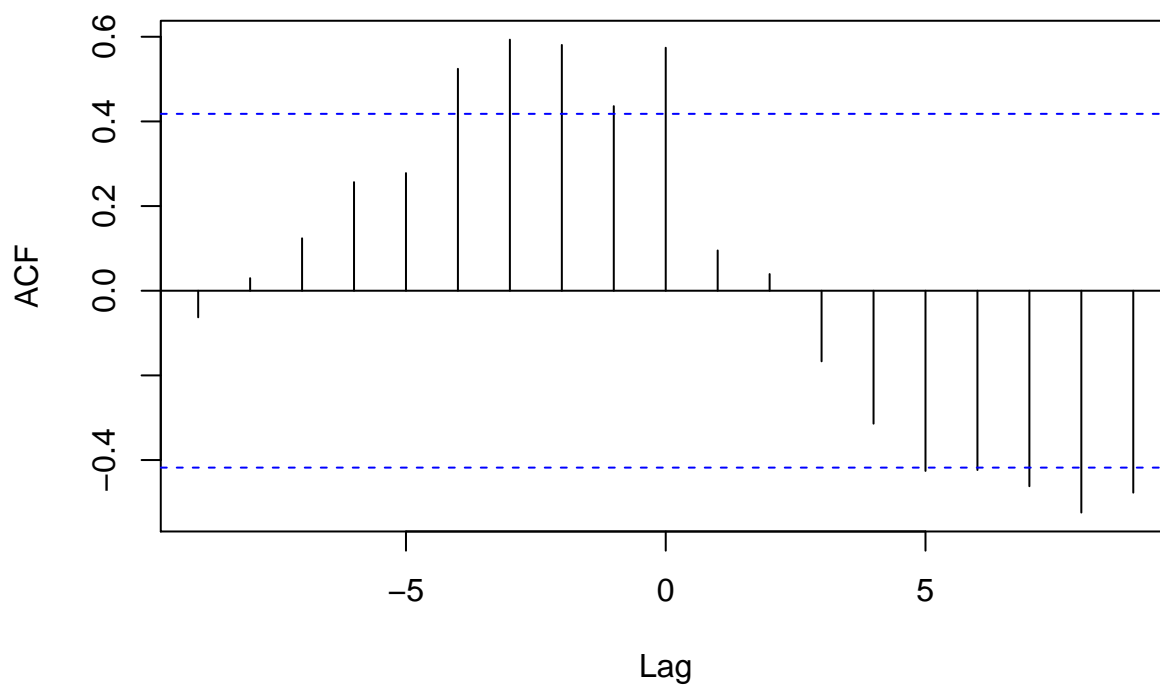
4 wk ahead – 32



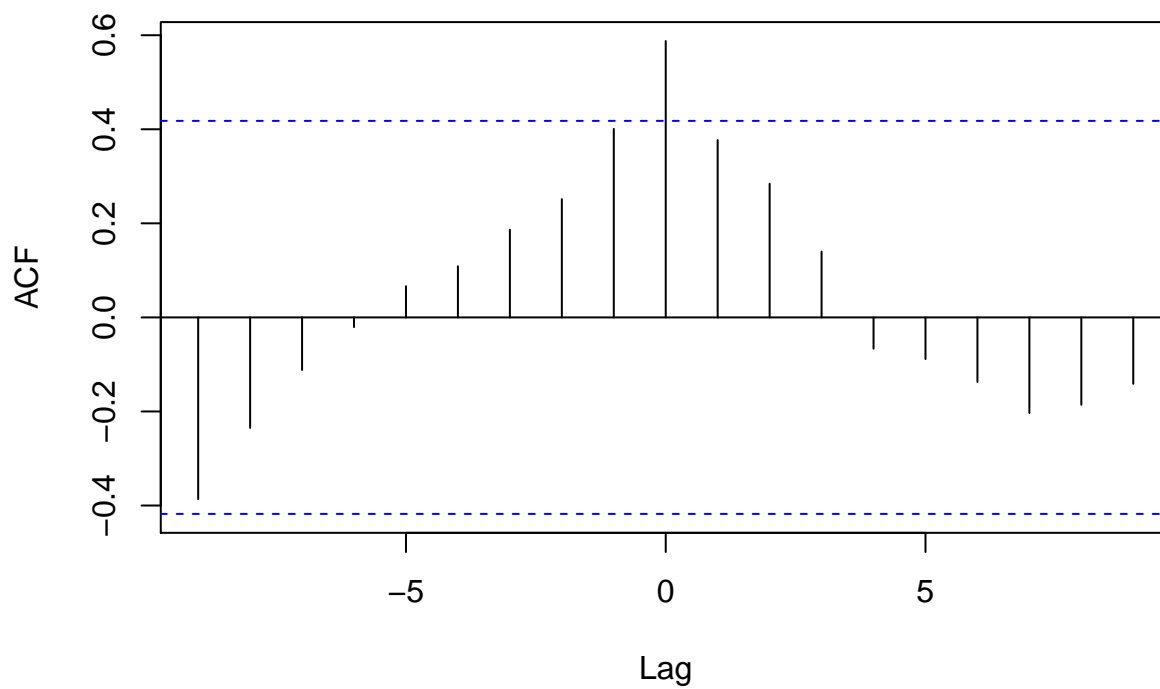
2 wk ahead – 33



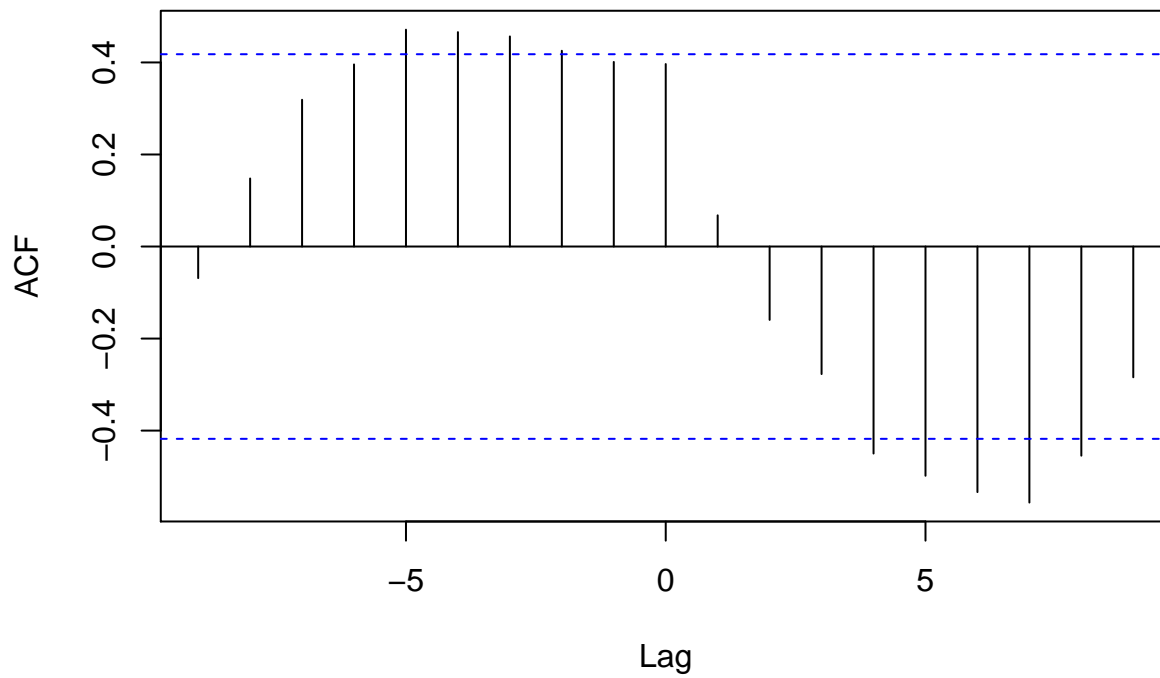
4 wk ahead – 33



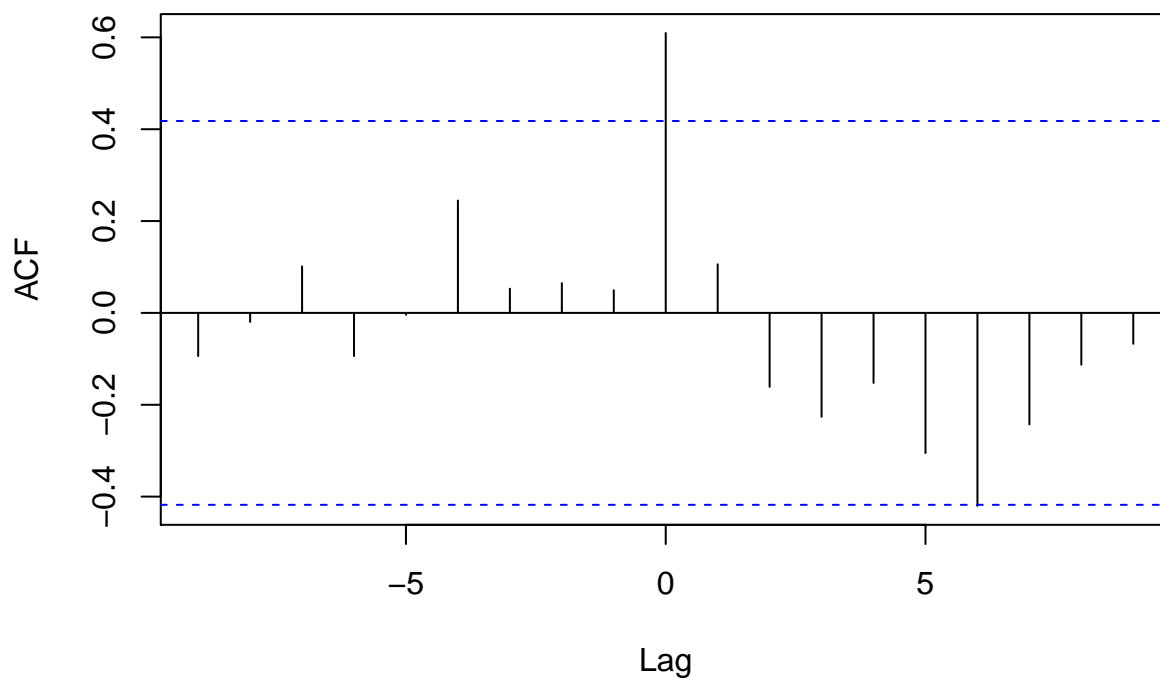
2 wk ahead – 34



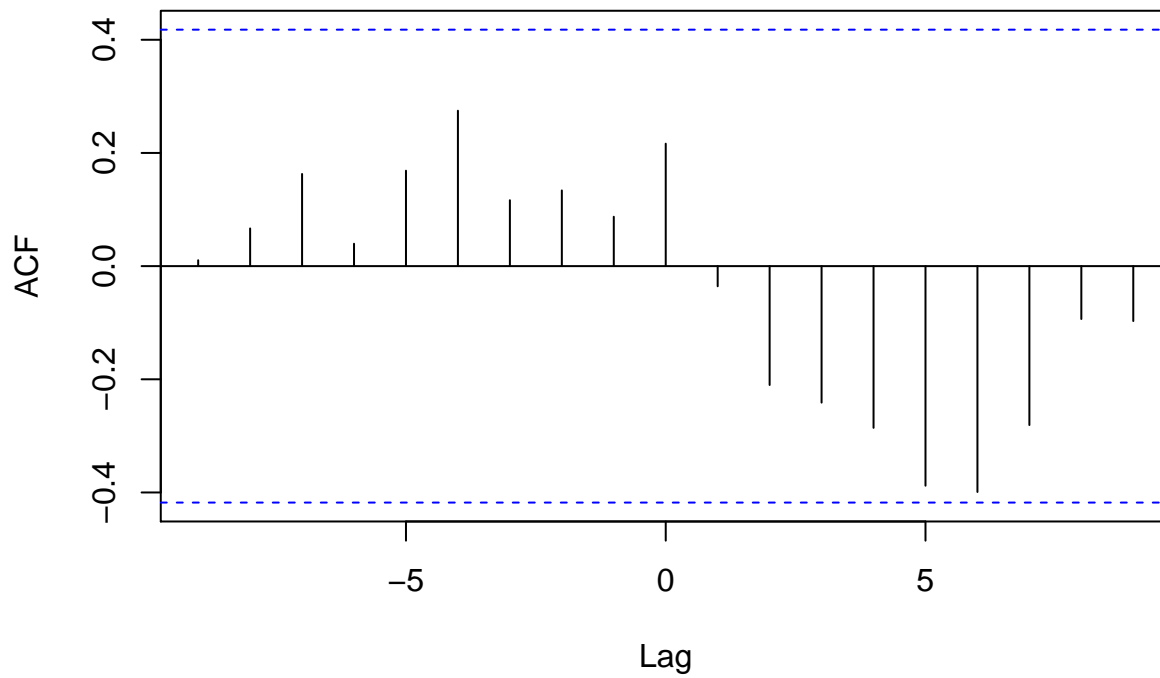
4 wk ahead – 34



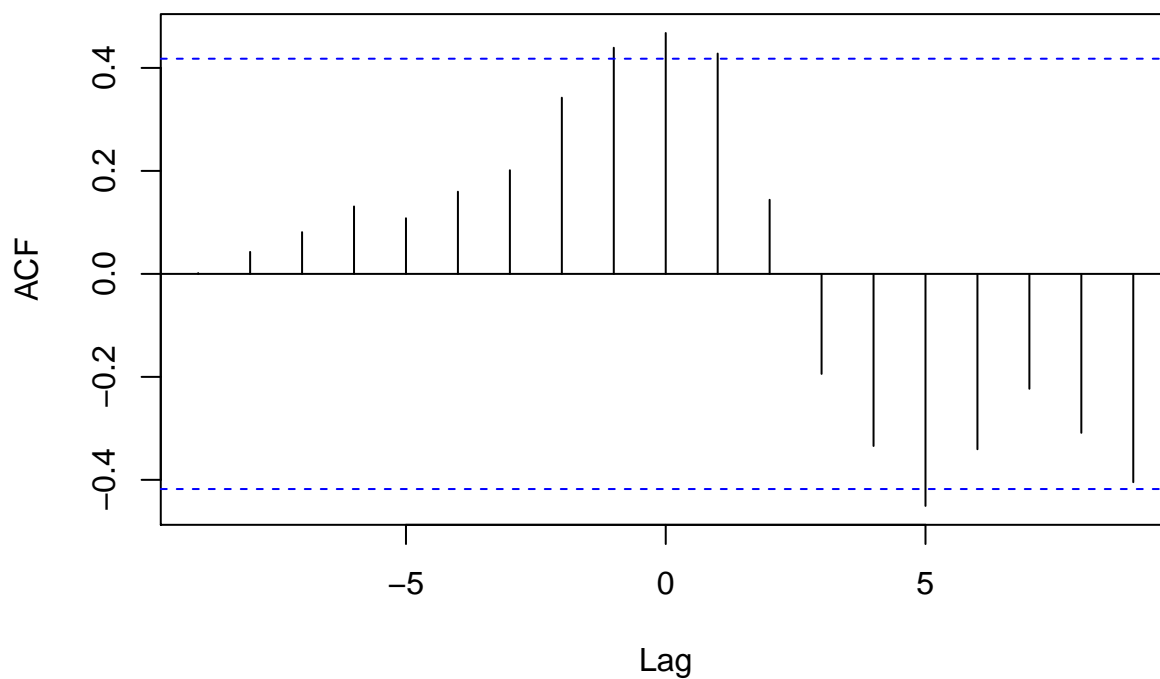
2 wk ahead – 35



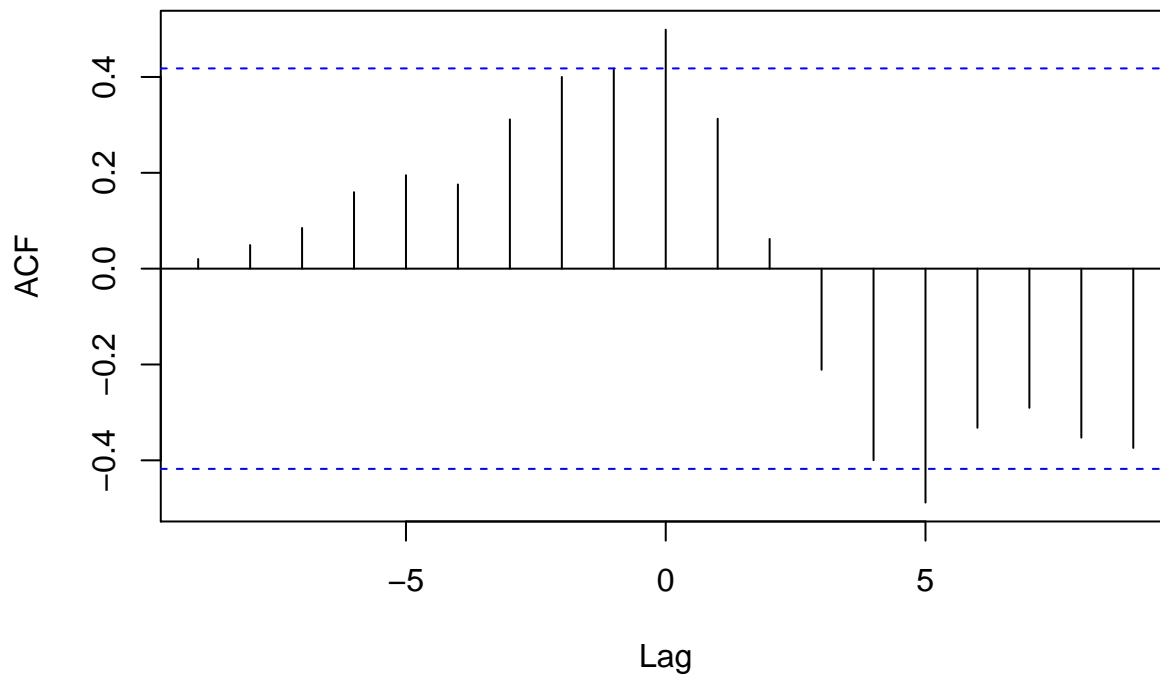
4 wk ahead – 35



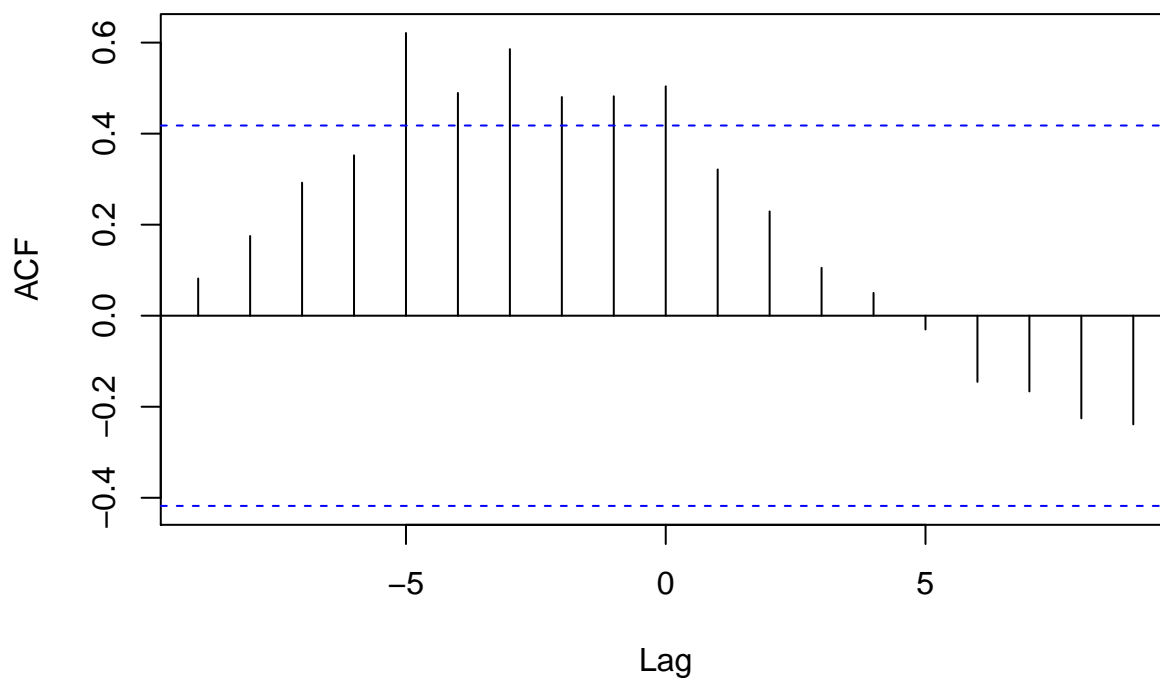
2 wk ahead – 38



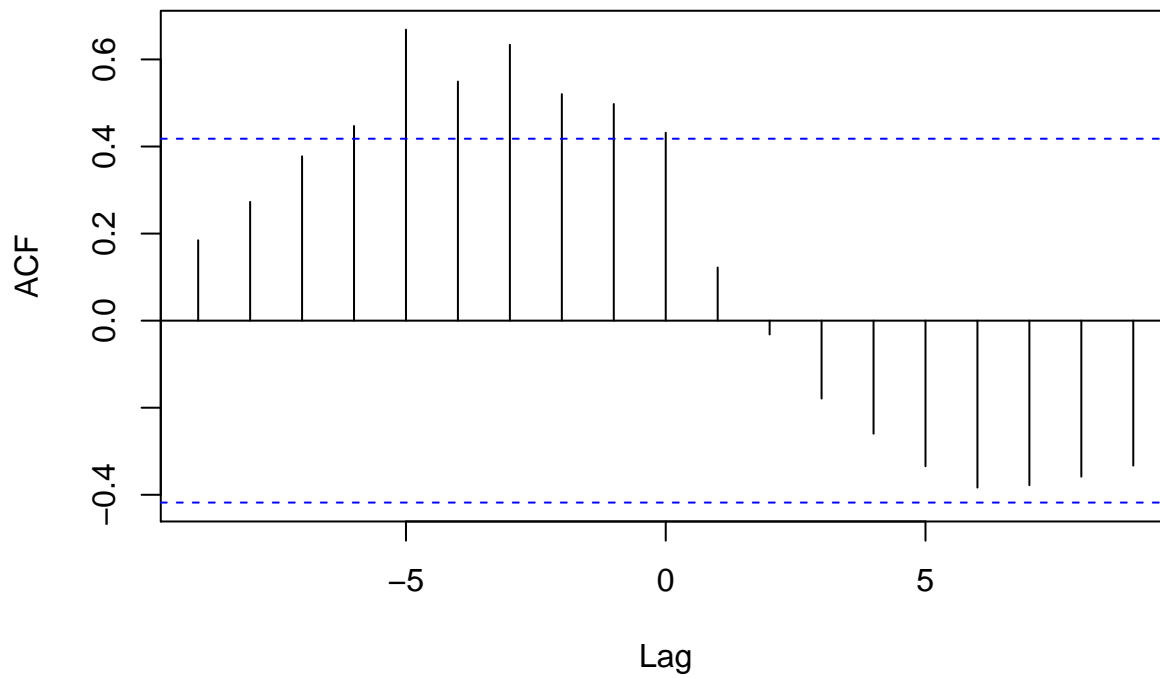
4 wk ahead – 38



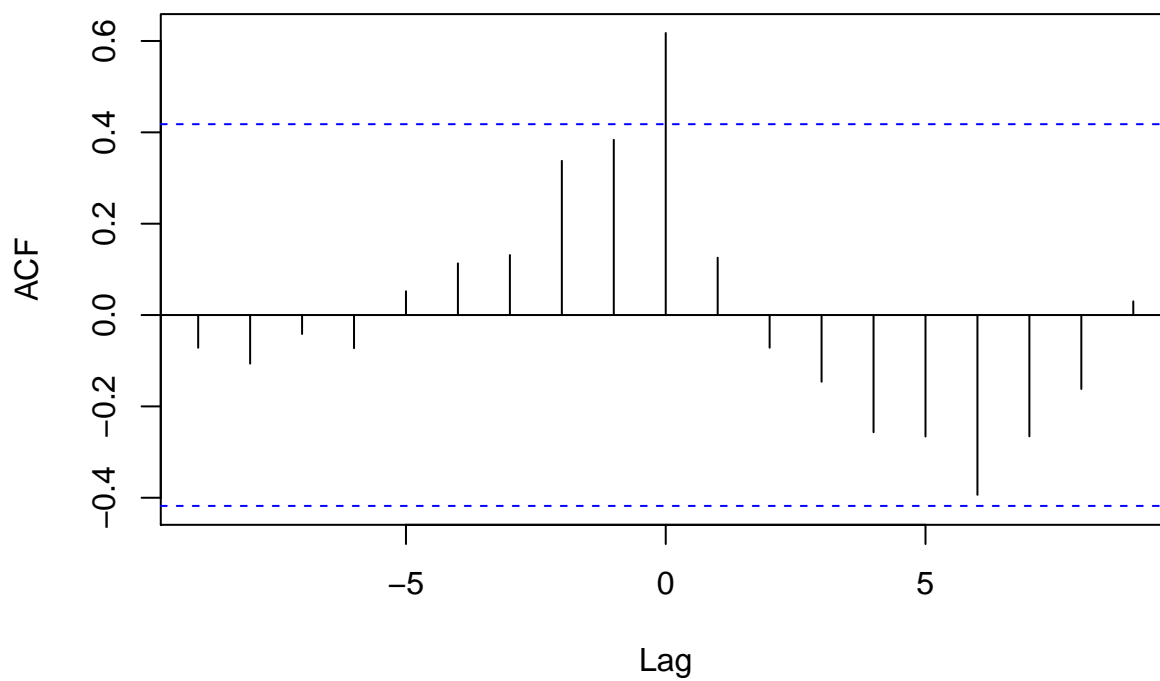
2 wk ahead – 39



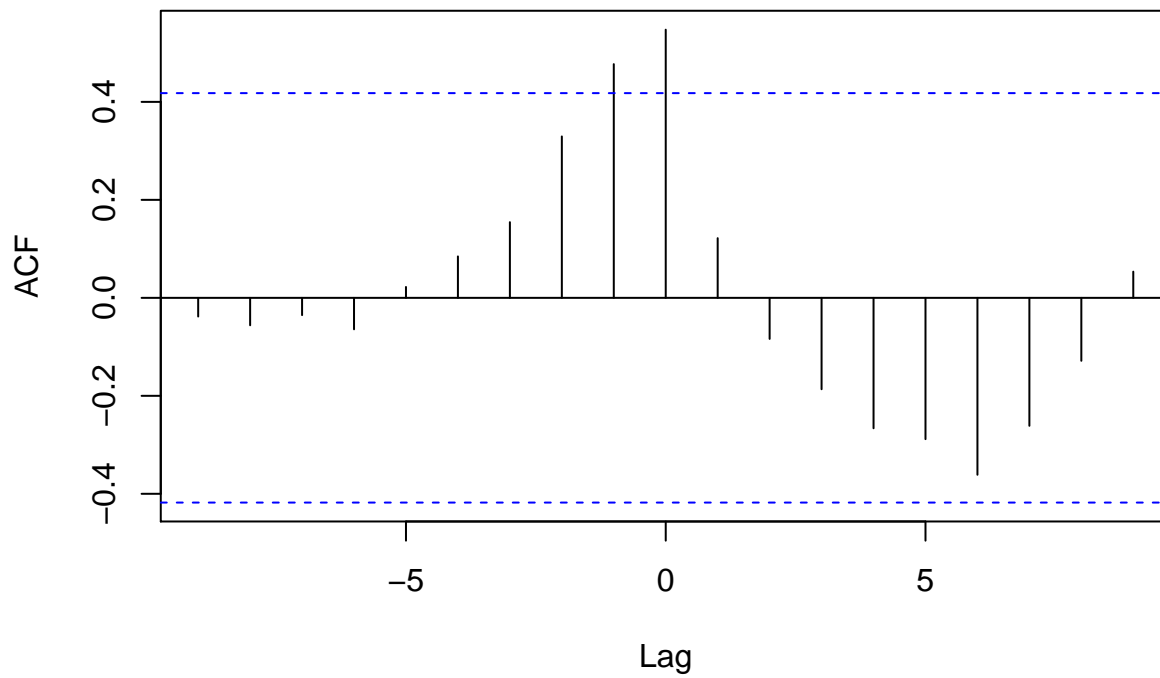
4 wk ahead – 39



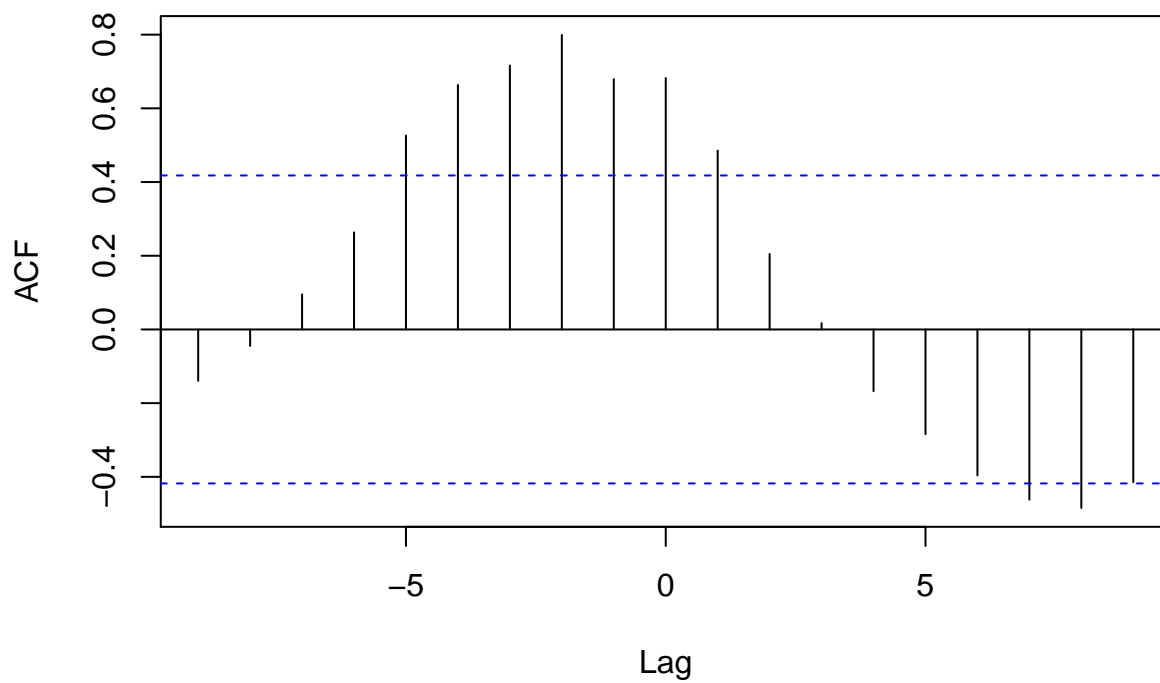
2 wk ahead – 41



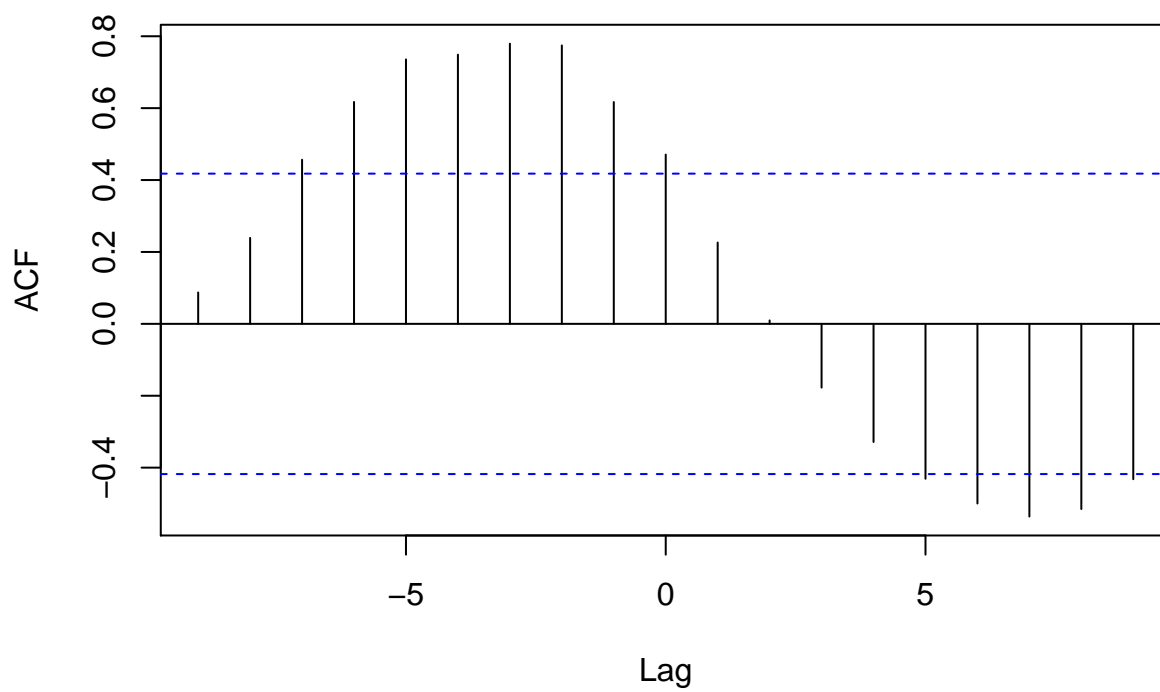
4 wk ahead – 41



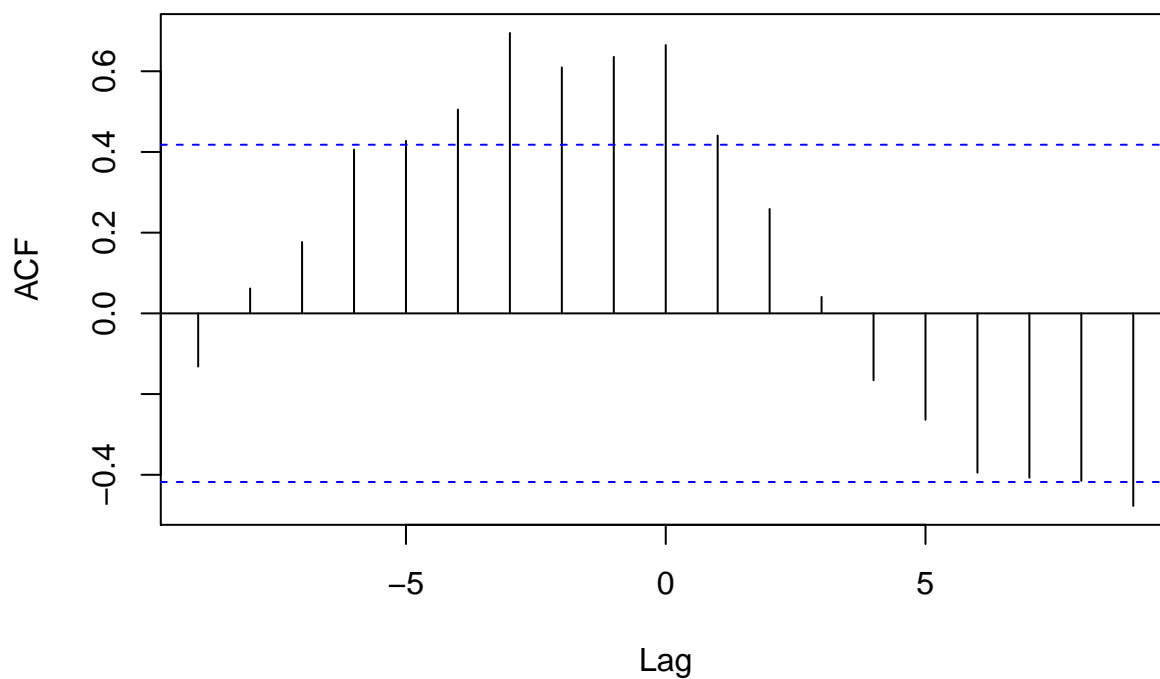
2 wk ahead – 42



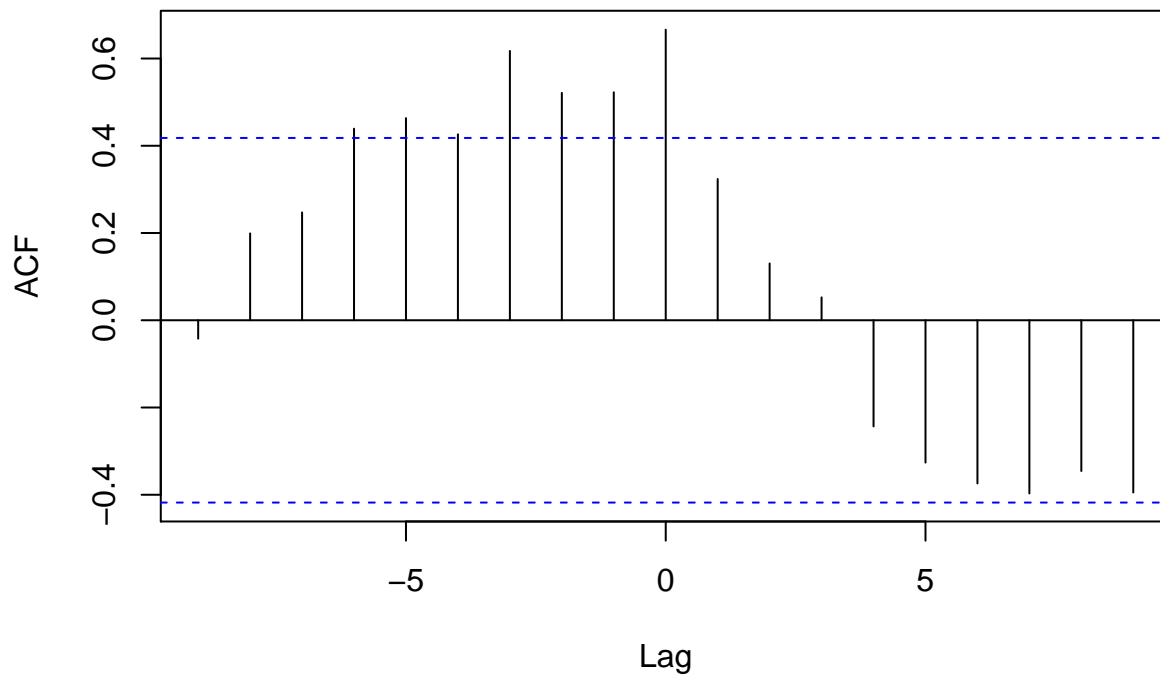
4 wk ahead – 42



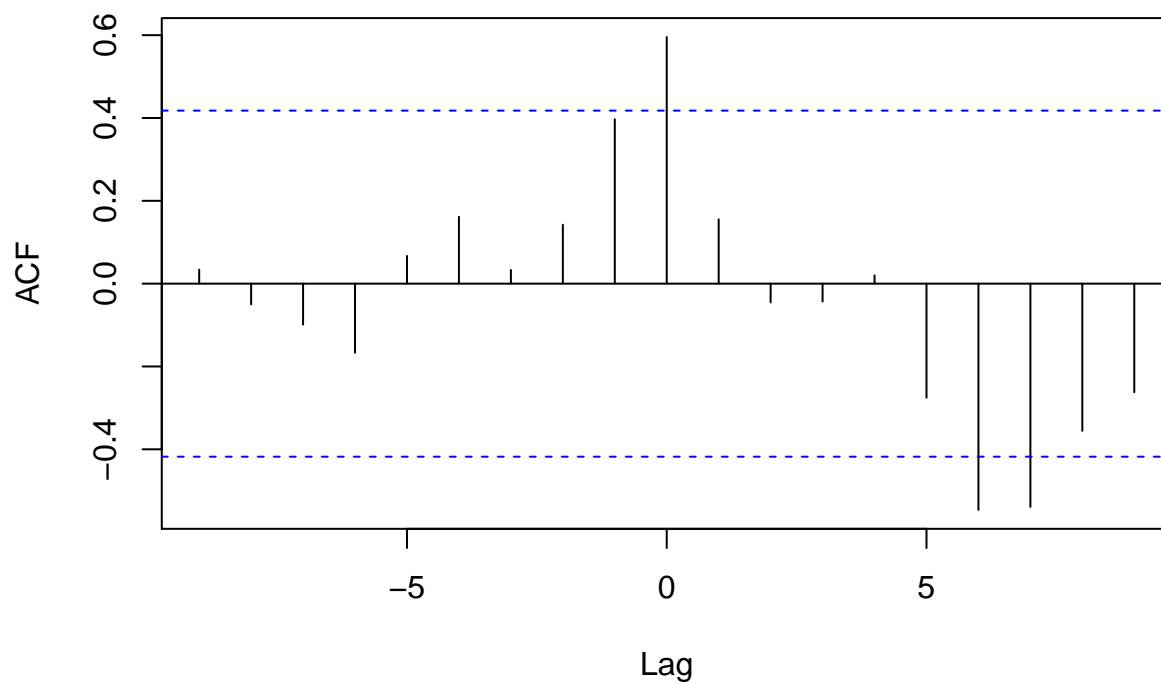
2 wk ahead – 44



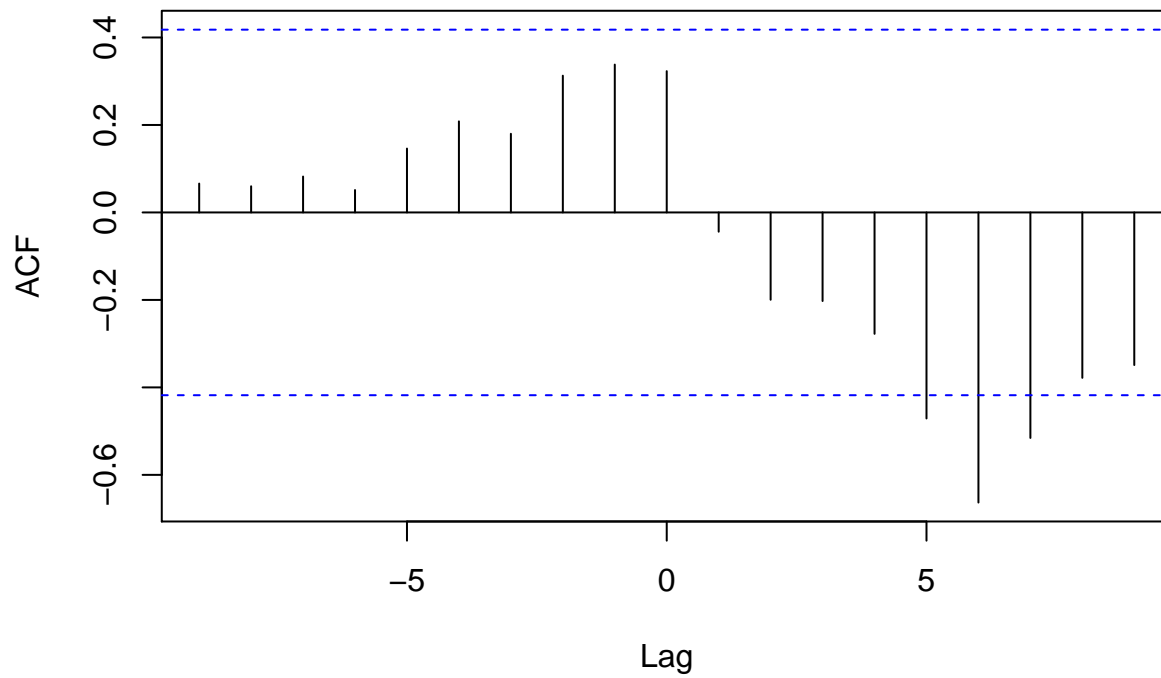
4 wk ahead – 44



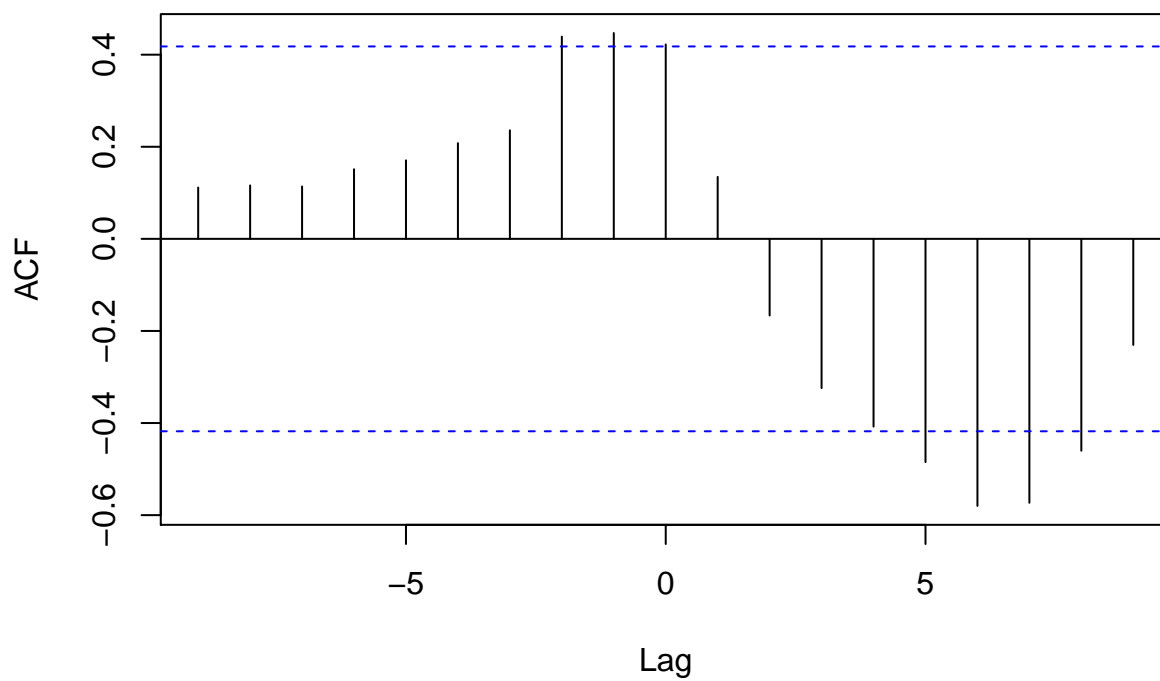
2 wk ahead – 46



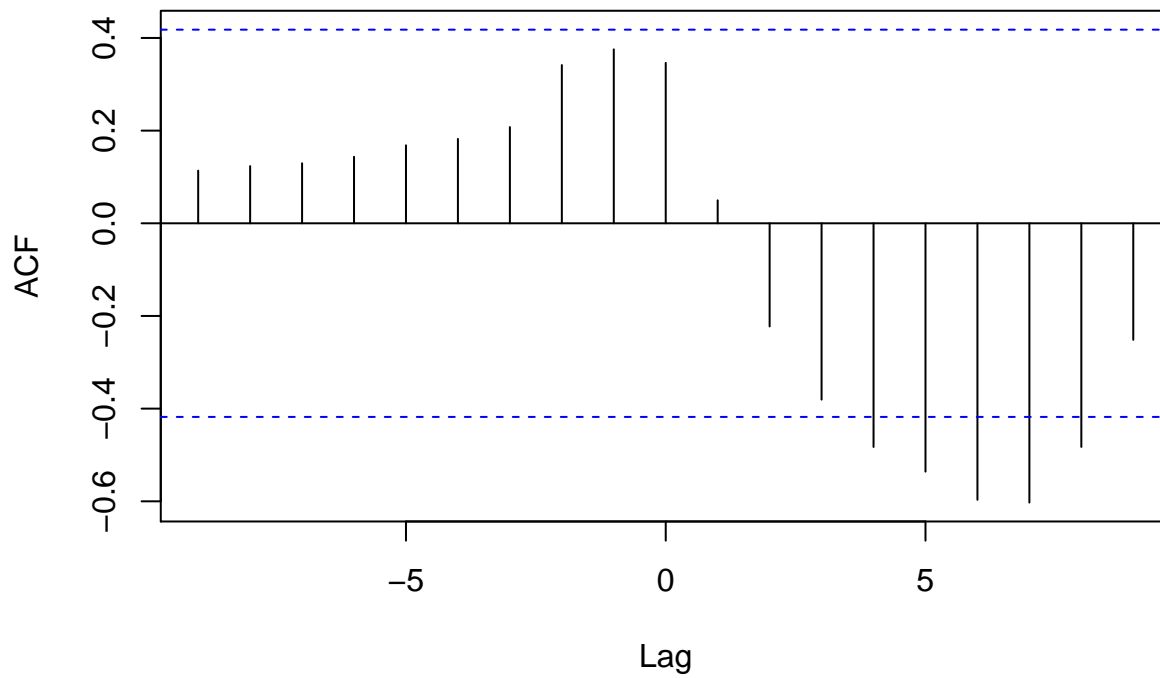
4 wk ahead – 46



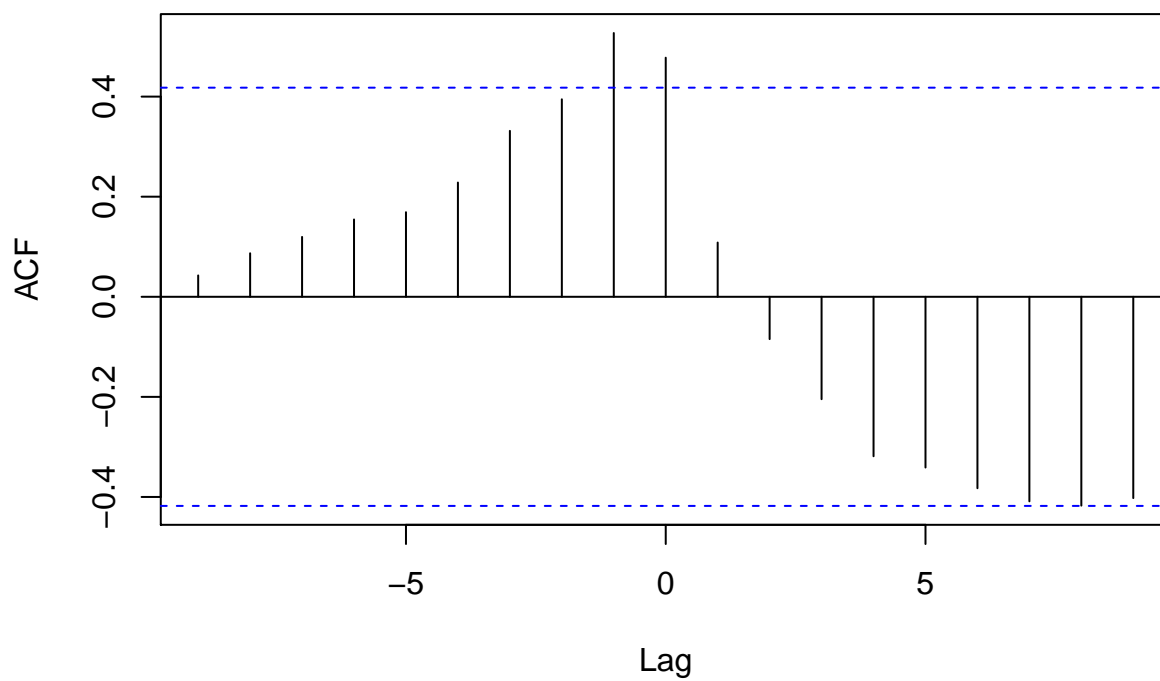
2 wk ahead – 47



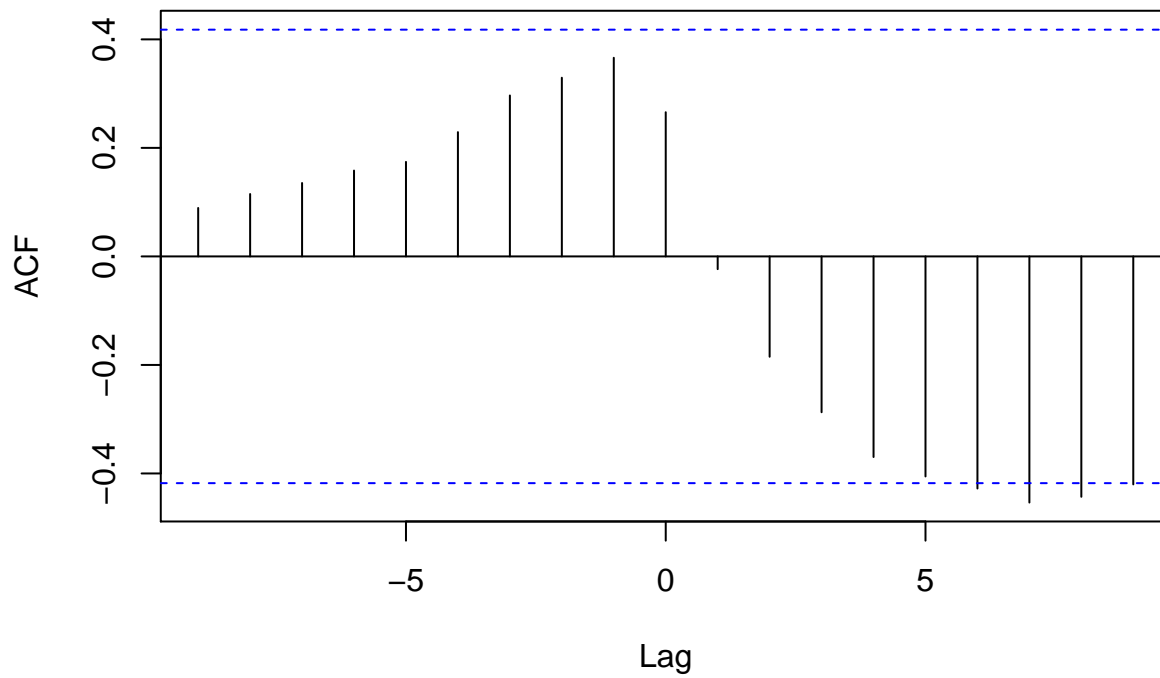
4 wk ahead – 47



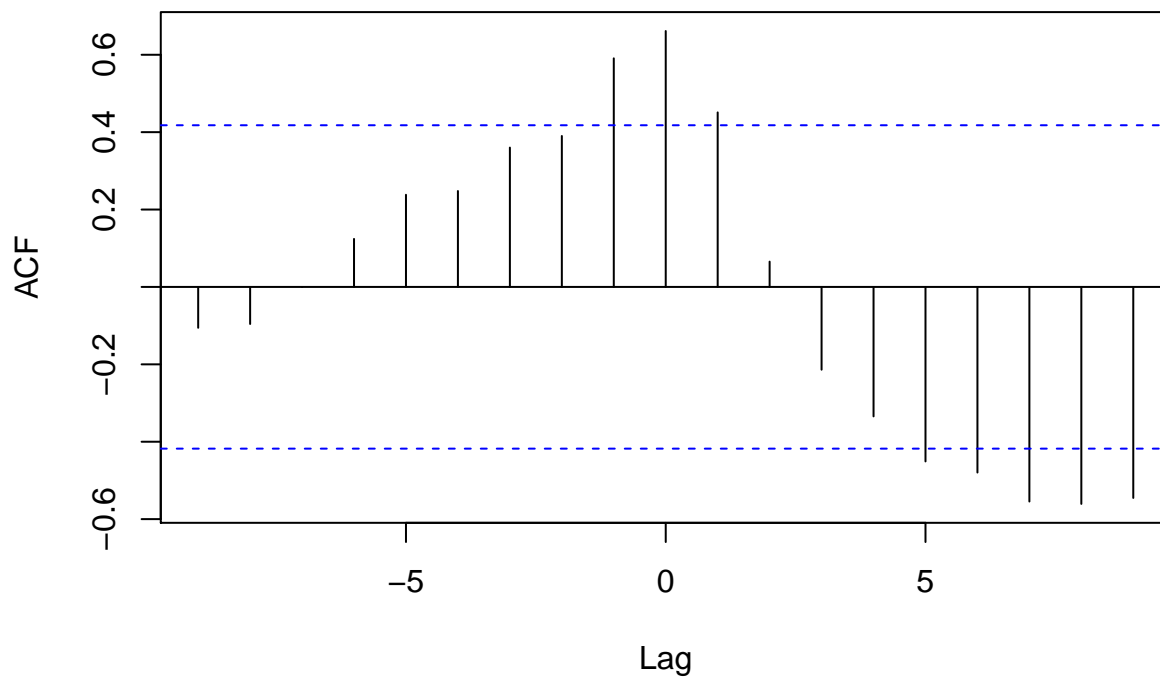
2 wk ahead – 48



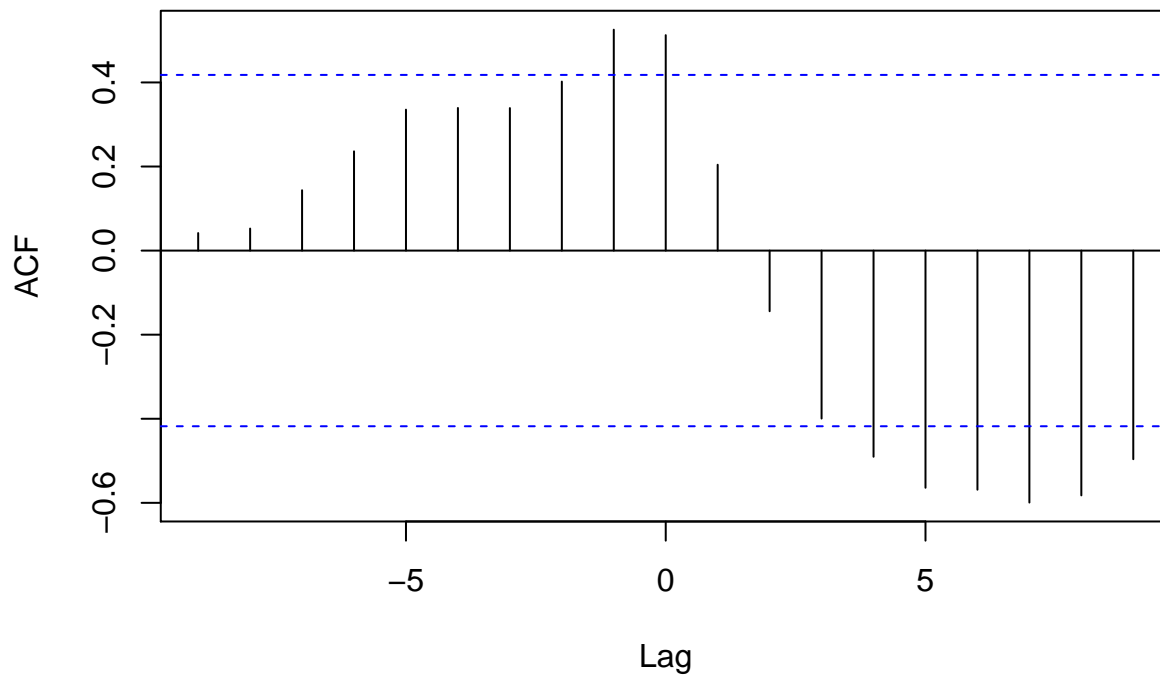
4 wk ahead – 48



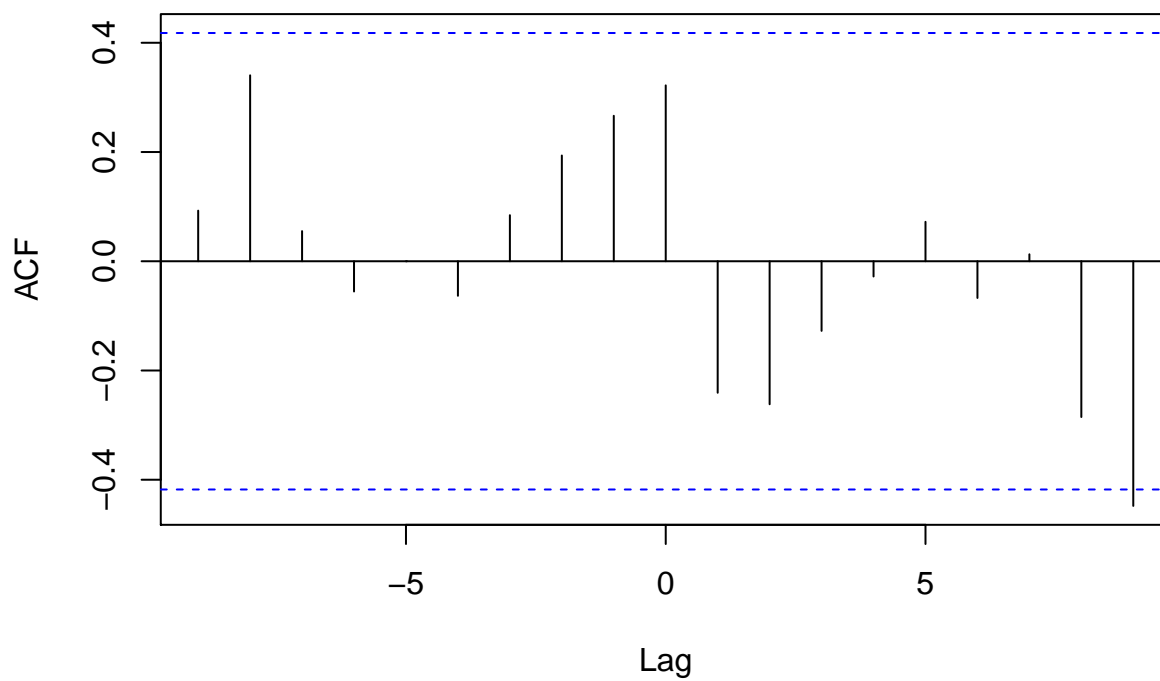
2 wk ahead – 51



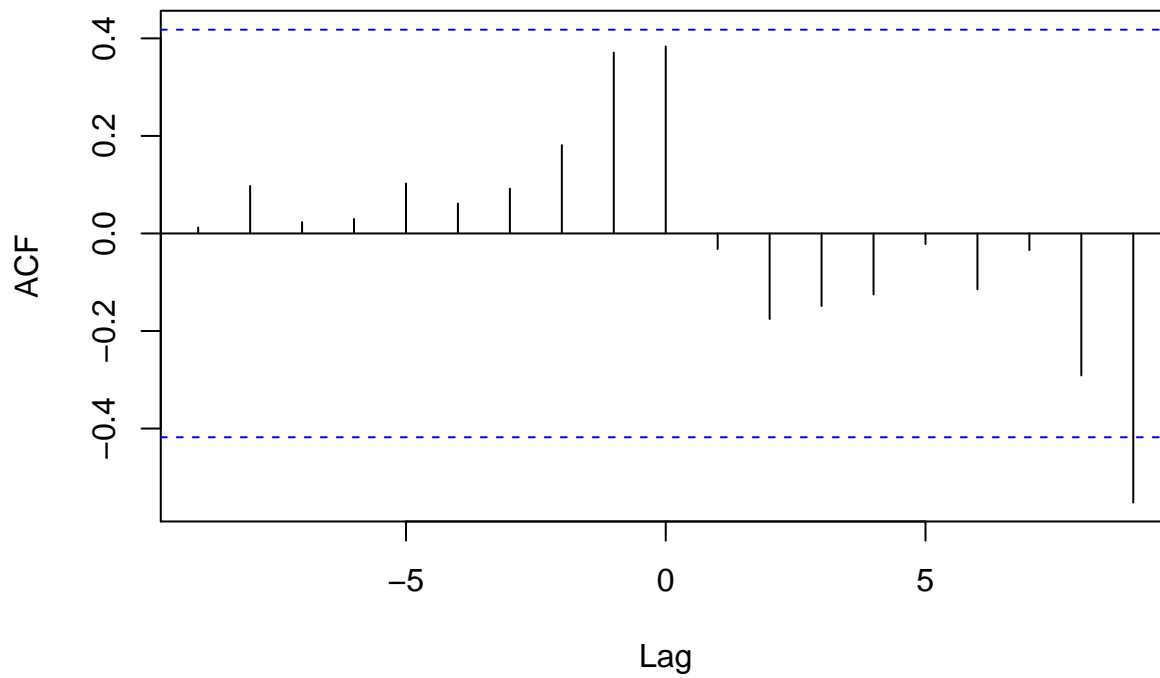
4 wk ahead – 51



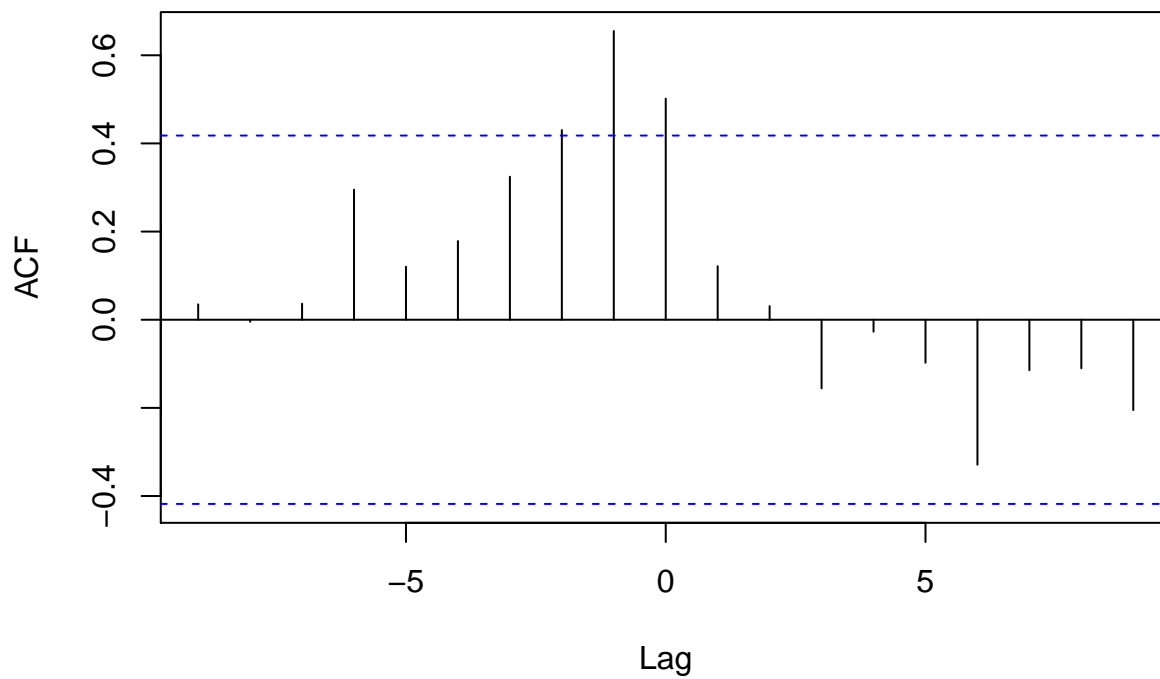
2 wk ahead – 53



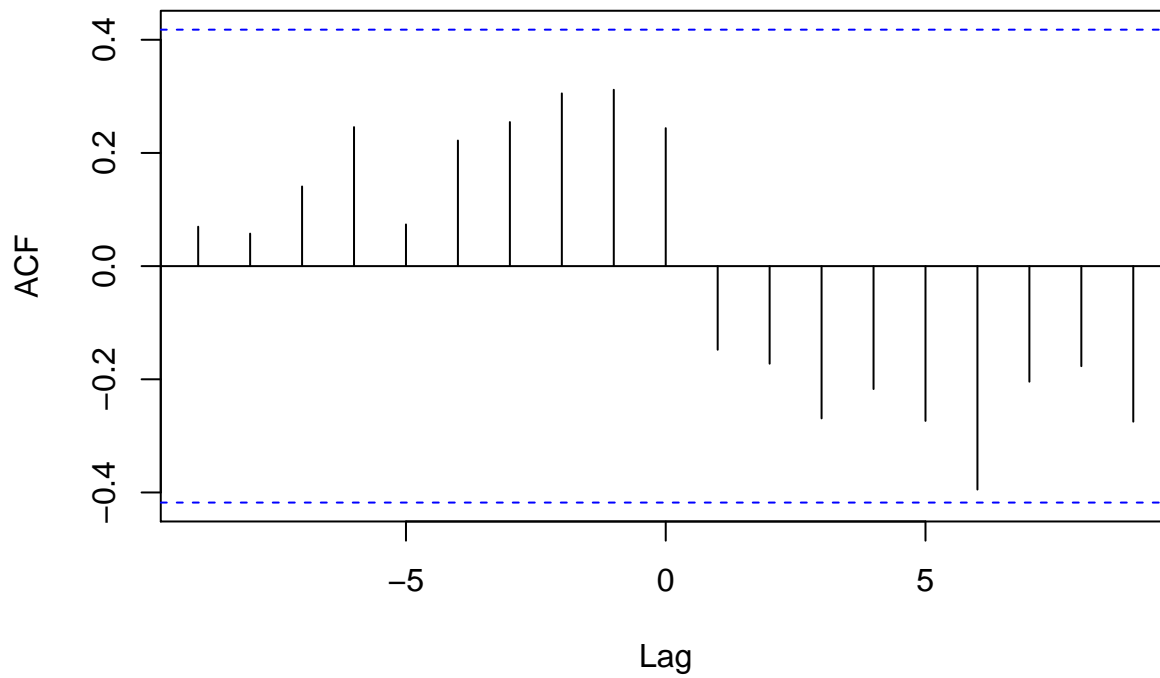
4 wk ahead – 53



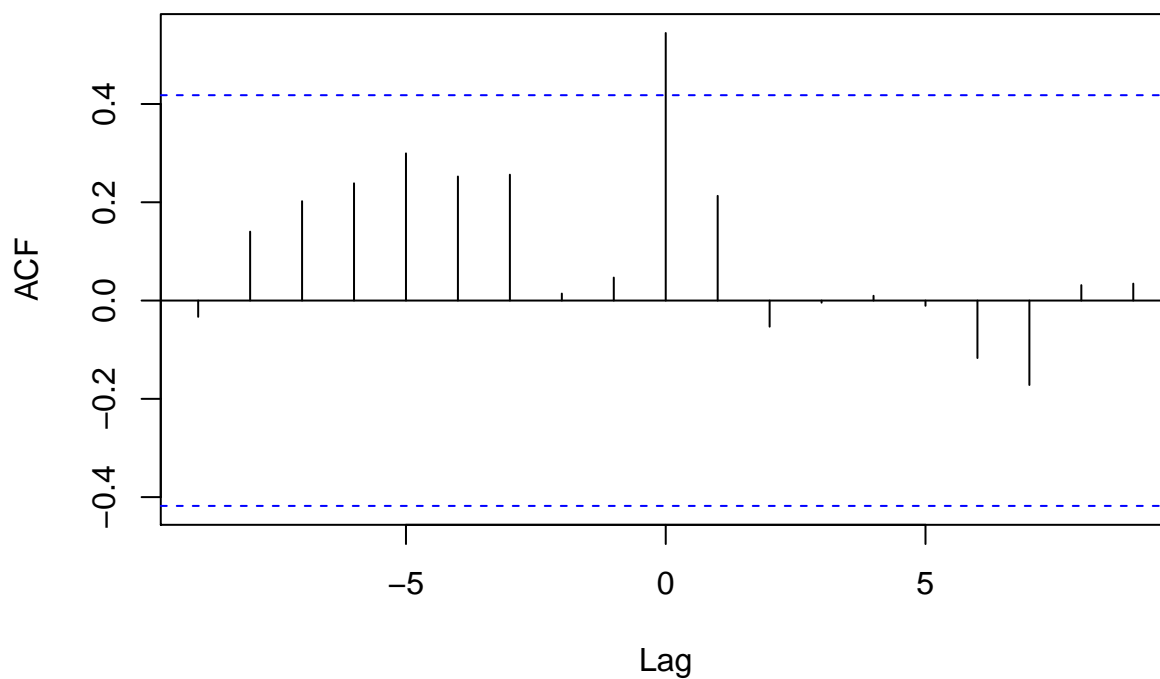
2 wk ahead – 54



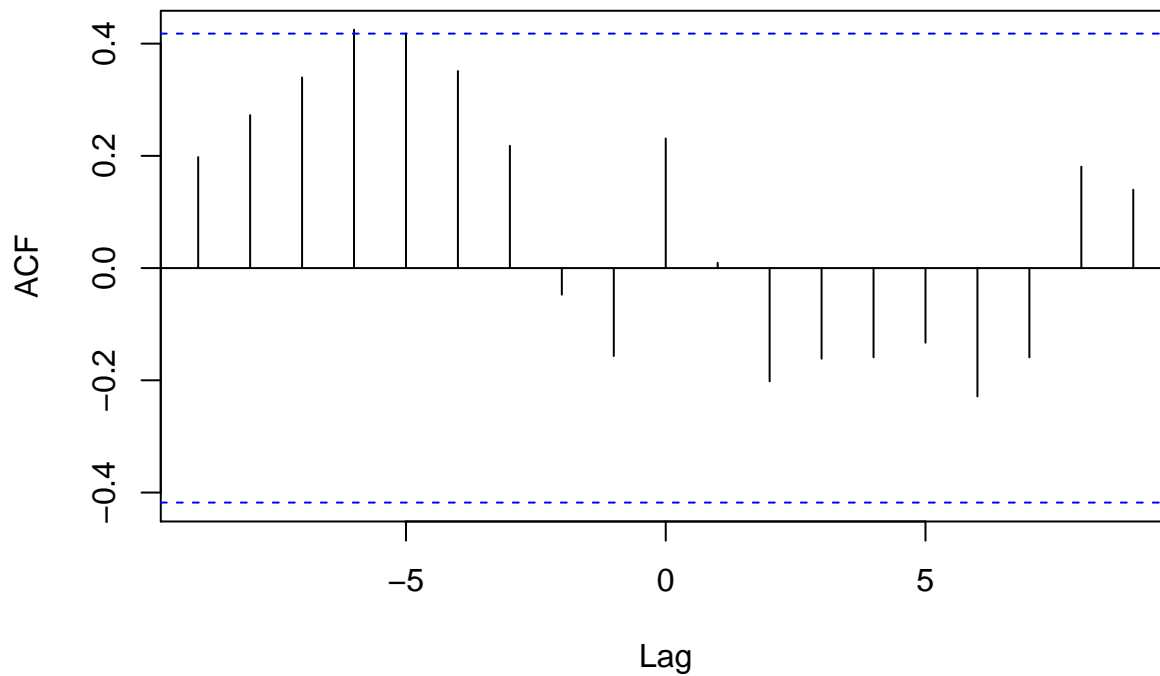
4 wk ahead – 54



2 wk ahead – 55

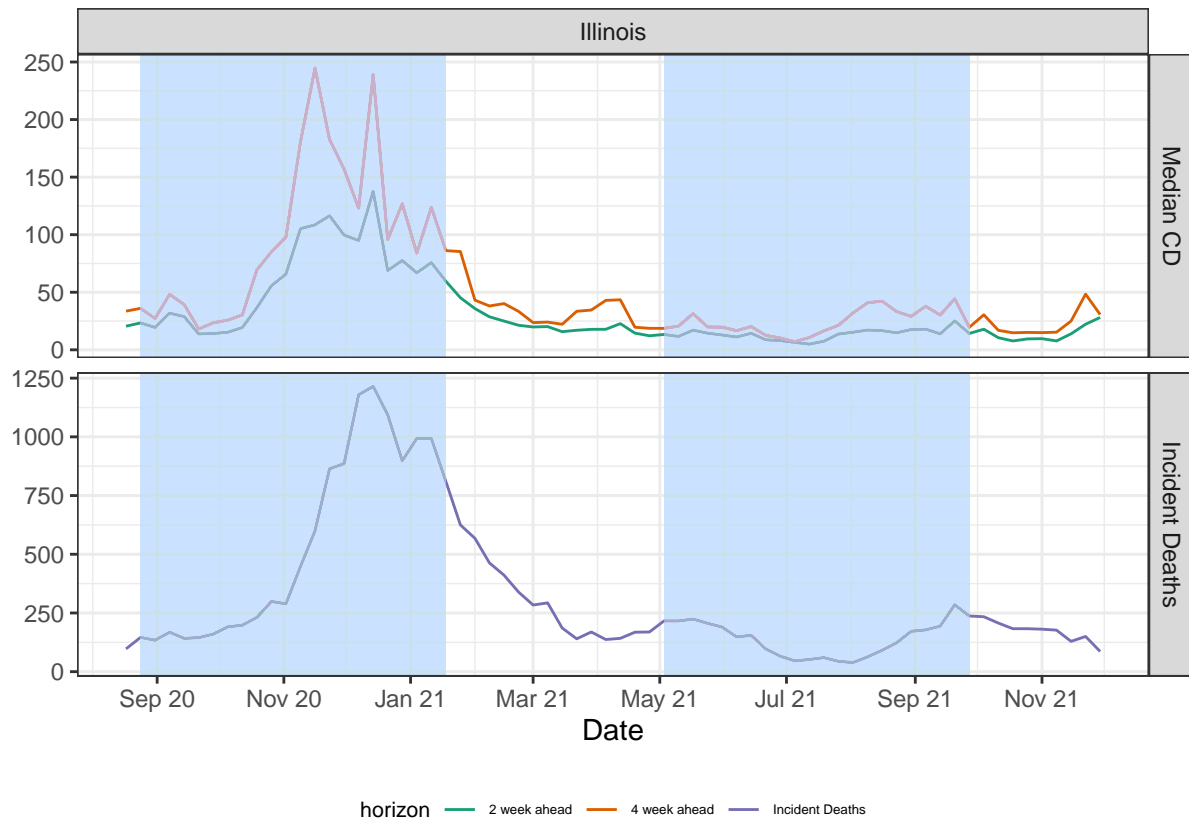


4 wk ahead – 55



CA Figure

Change figure to show the main time series in consideration to only show the main values, meaning trim 8 points from the beginning and the end.



Clear out