

0.0 0.5

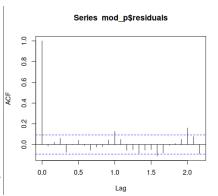
20

Lag

3.0

suggests that the AR(2) model fits best, and that we shouldn't use an MA term since there is no significance in including one

- b) Yes! The model I picked (ARMA(2,0)) at the top had the best AIC
- c) I used the predict function to predict 24 data points ahead, or 2 years worth of data.
- d) The ACF of the residuals seems to definitely have a periodic nature over the 1 year marks. This is expected, as we were working with seasonal data.



> print(mod\_p\$aic)
[1] 3331.019
> print(mod\_p\_min\_1\$aic)
[1] 3437.273
> print(mod\_p\_1\$aic)
[1] 3332.215
> print(mod\_0\_2\$aic)
[1] 3599.712
> print(mod\_p\_2\$aic)
[1] 3334.152

- e) Yep, I get what all the code does!
- f) These residuals are significantly less close to 0. This doesn't seem like a good fit. The prediction doesn't turn out very well....

