SUPPLEMENTAL

Impact of the COVID-19 pandemic on inbound air travel to Canada—Supplemental material

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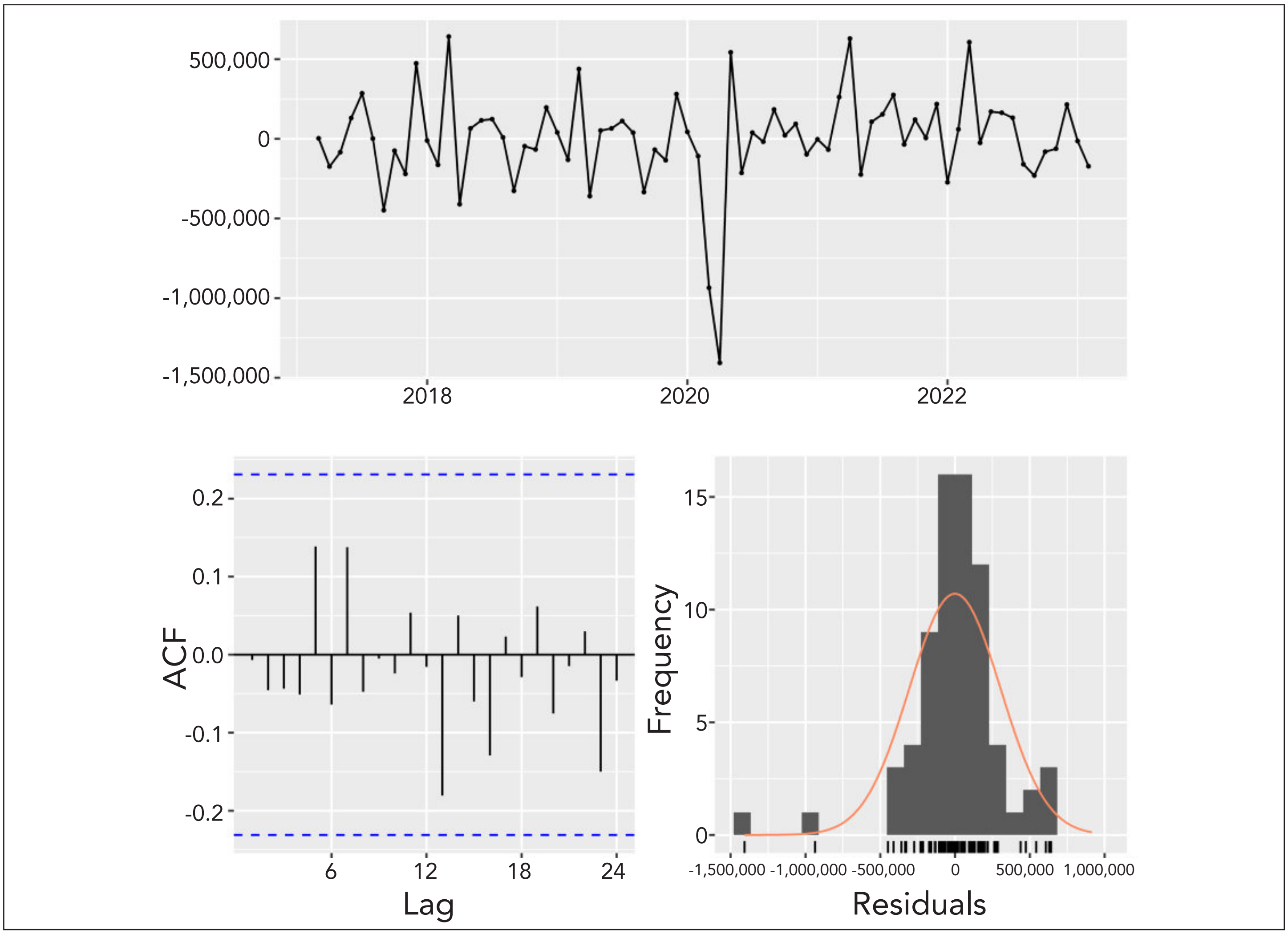
This document reports output from the null hypothesis (H_0) and interrupted time series (ITS) analysis models for residual diagnostics and model estimates.

Null hypothesis (H_0) model

Figure S1: Residual check for null hypothesis (H_0) model SARIMA (0,1,1) x $(1,0,0)_{12}$



Abbreviations: ACF, autocorrelation function; SARIMA, seasonal autoregressive integrated moving average

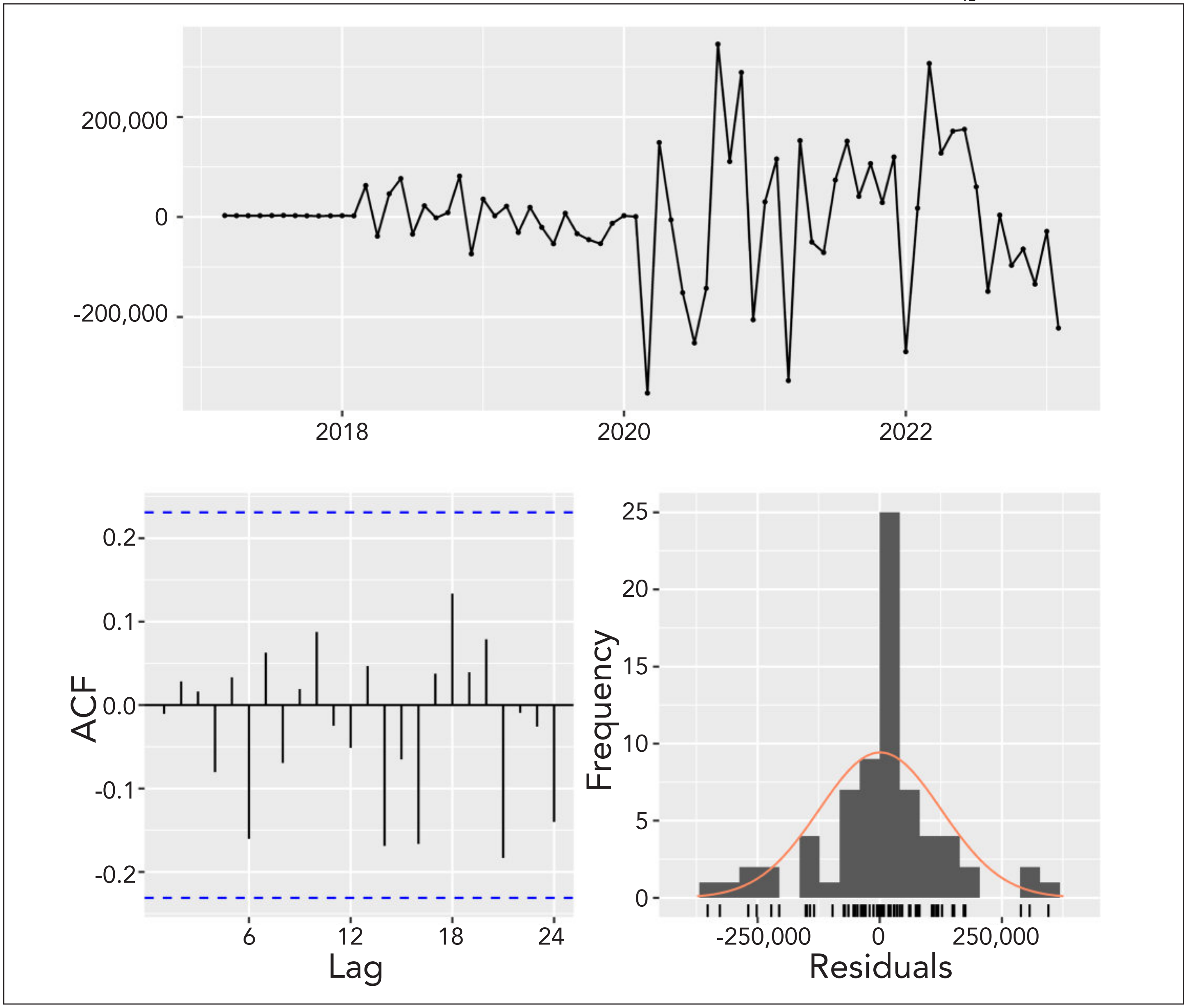
Table S1: Results from final null hypothesis (H_0) model SARIMA (0,1,1) x $(1,0,0)_{12}$

Parameter	Coefficient	Standard error	95% confidence interval	
ma1	0.3619	0.1220	0.1228	0.6011
sar1	0.3811	0.1159	0.1538	0.6083

Abbreviation: SARIMA, seasonal autoregressive integrated moving average

Interrupted time series (ITS) model

Figure S2: Residual check for final interrupted time series (ITS) model SARIMA (2,0,0) x $(2,1,0)_{12}$



Abbreviations: ACF, autocorrelation function; SARIMA, seasonal autoregressive integrated moving average

Table S2: Results from final interrupted time series (ITS) model SARIMA (2,0,0) x $(2,1,0)_{12}$

Parameter	Coefficient	Standard error	95% confidence interval	
ar1	0.9669	0.1233	0.7252	1.2086
ar2	−0.3311	0.1250	−0.5761	−0.0860
sar1	−0.1557	0.1456	−0.4411	0.1297
sar2	−0.4073	0.1399	−0.6815	−0.1330
drift	11,092.7	4,797.6	1,689.6	20,495.8
step March 2020	−1,001,994.3	107,500.9	−1,212,692.2	−791,296.4
step April 2020	−1,773,160.7	97,668.4	−1,964,587.3	−1,581,734.1
ramp August 2021	112,626.7	10,689.9	91,674.9	133,578.6

Abbreviation: SARIMA, seasonal autoregressive integrated moving average