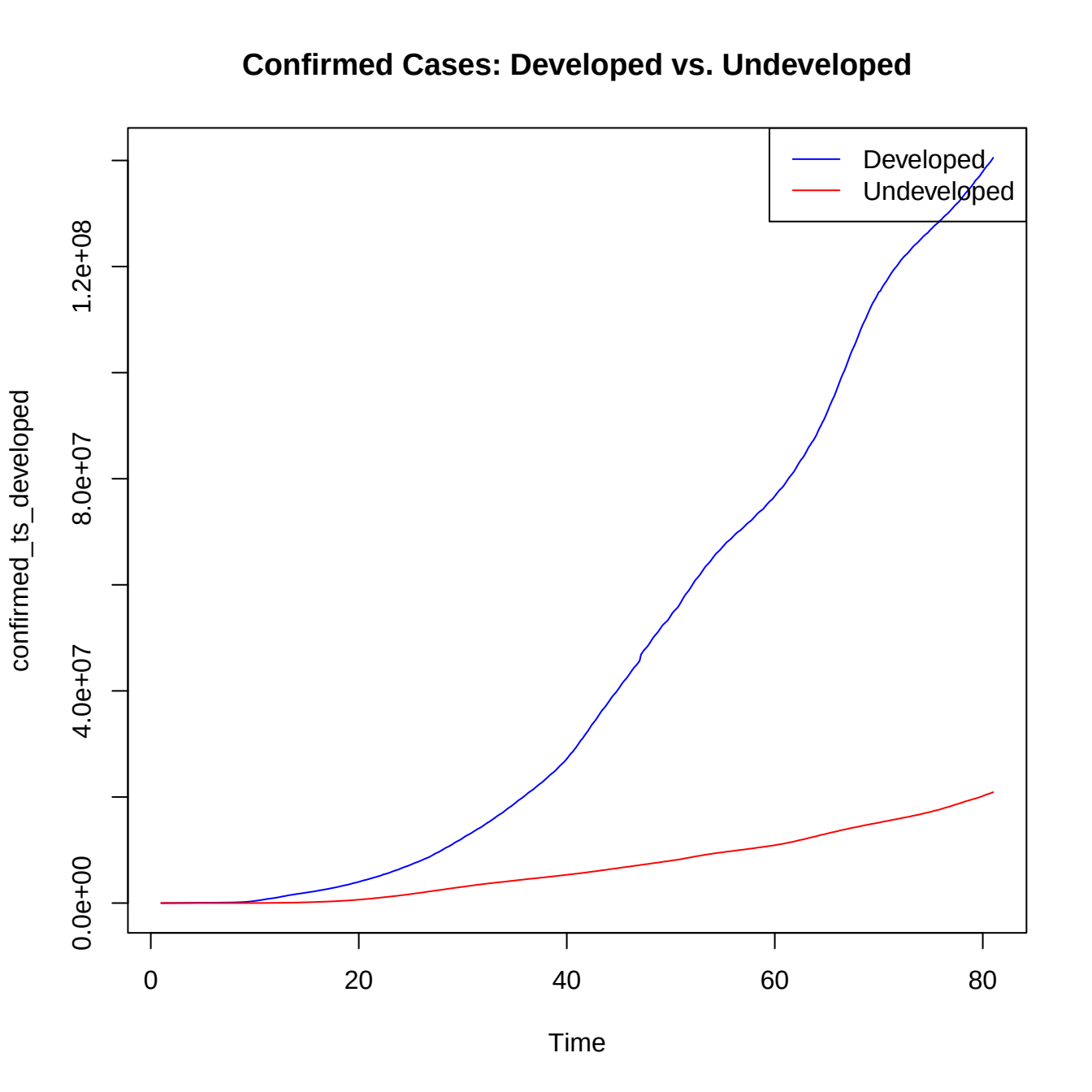
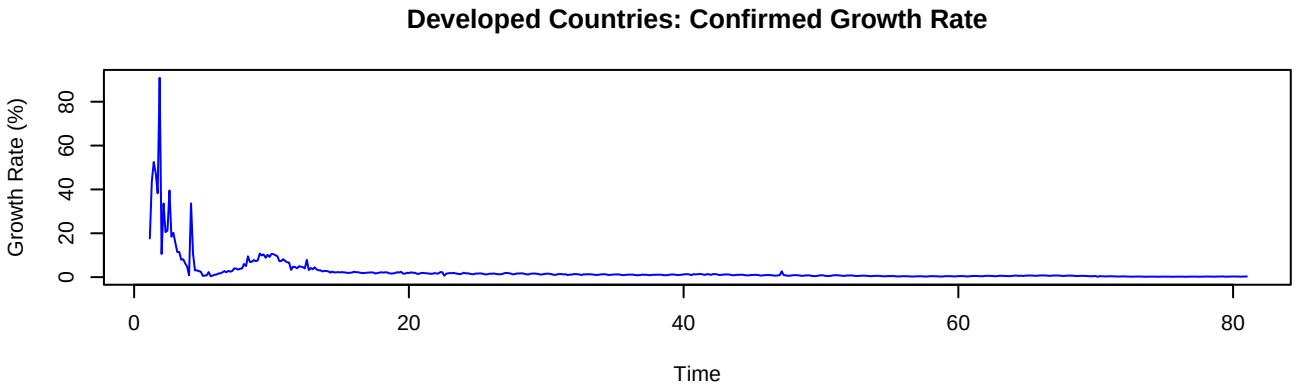
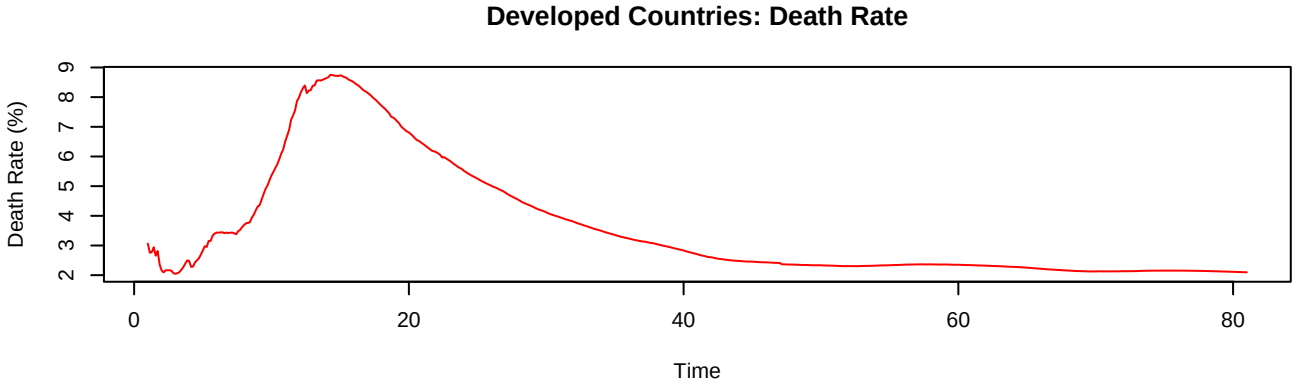
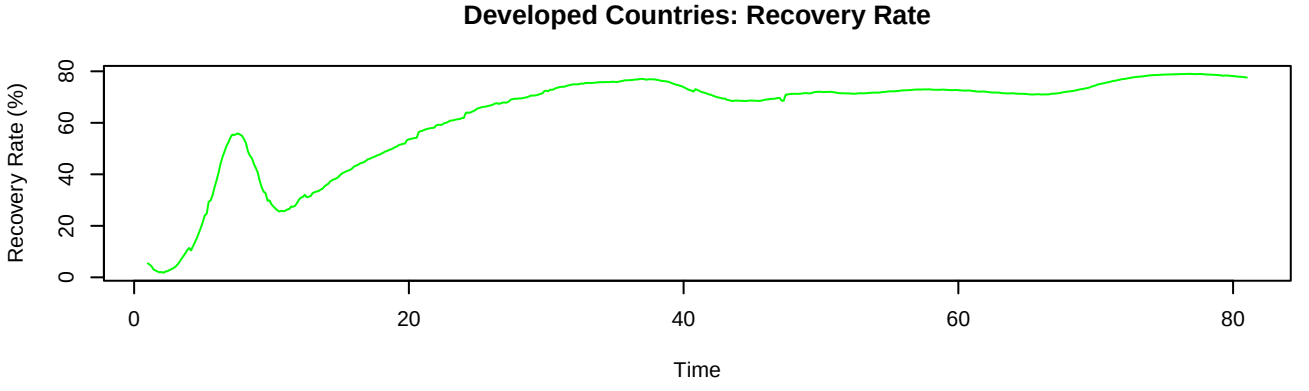
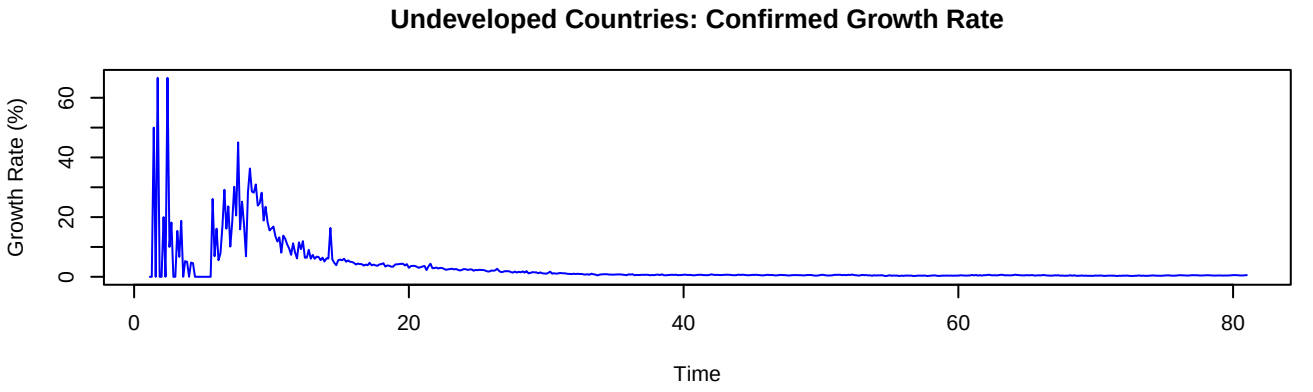
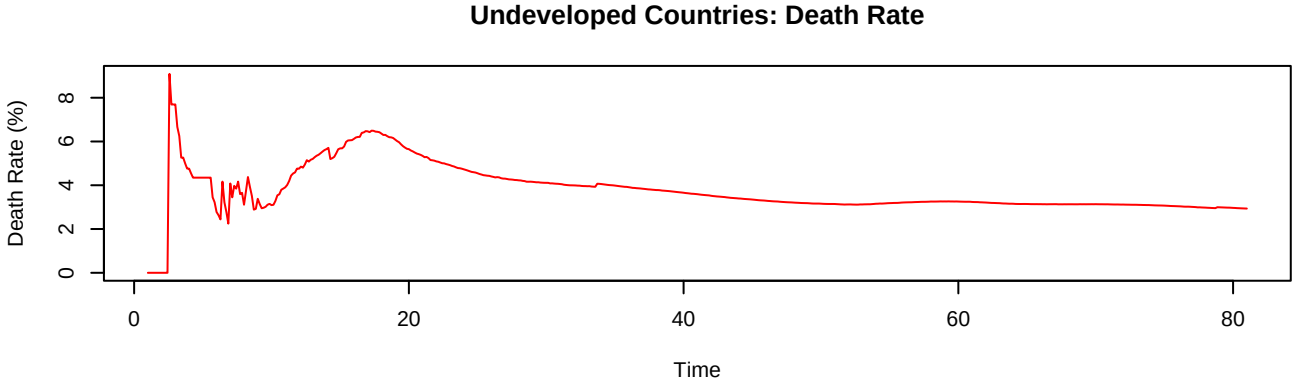

Confirmed Cases: Developed vs. Undeveloped
Developed
Undeveloped
confirmed_ts_developed
0.0e+00
4.0e+07
8.0e+07
1.2e+08
0
20
40
60
80
Time

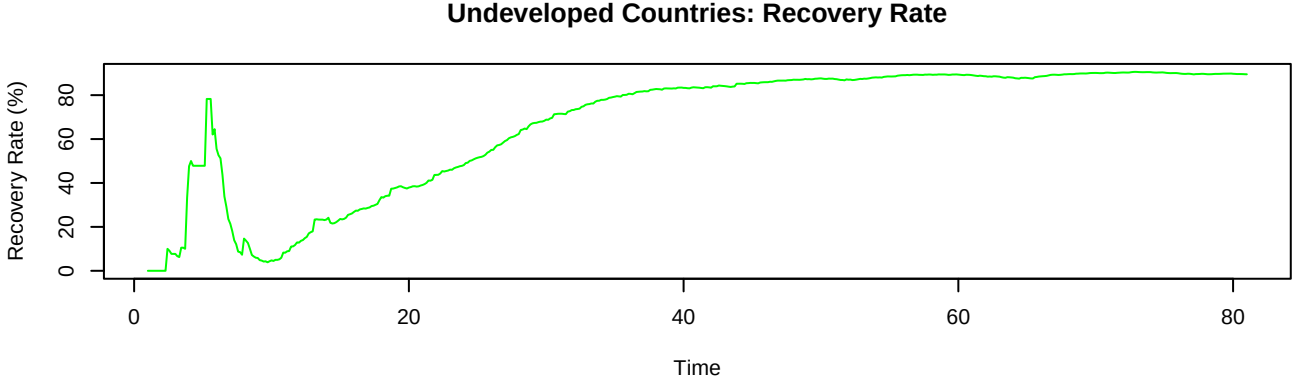

Developed Countries: Confirmed Growth Rate
Growth Rate (%)
0
20
40
60
80
0
20
40
60
80
Time

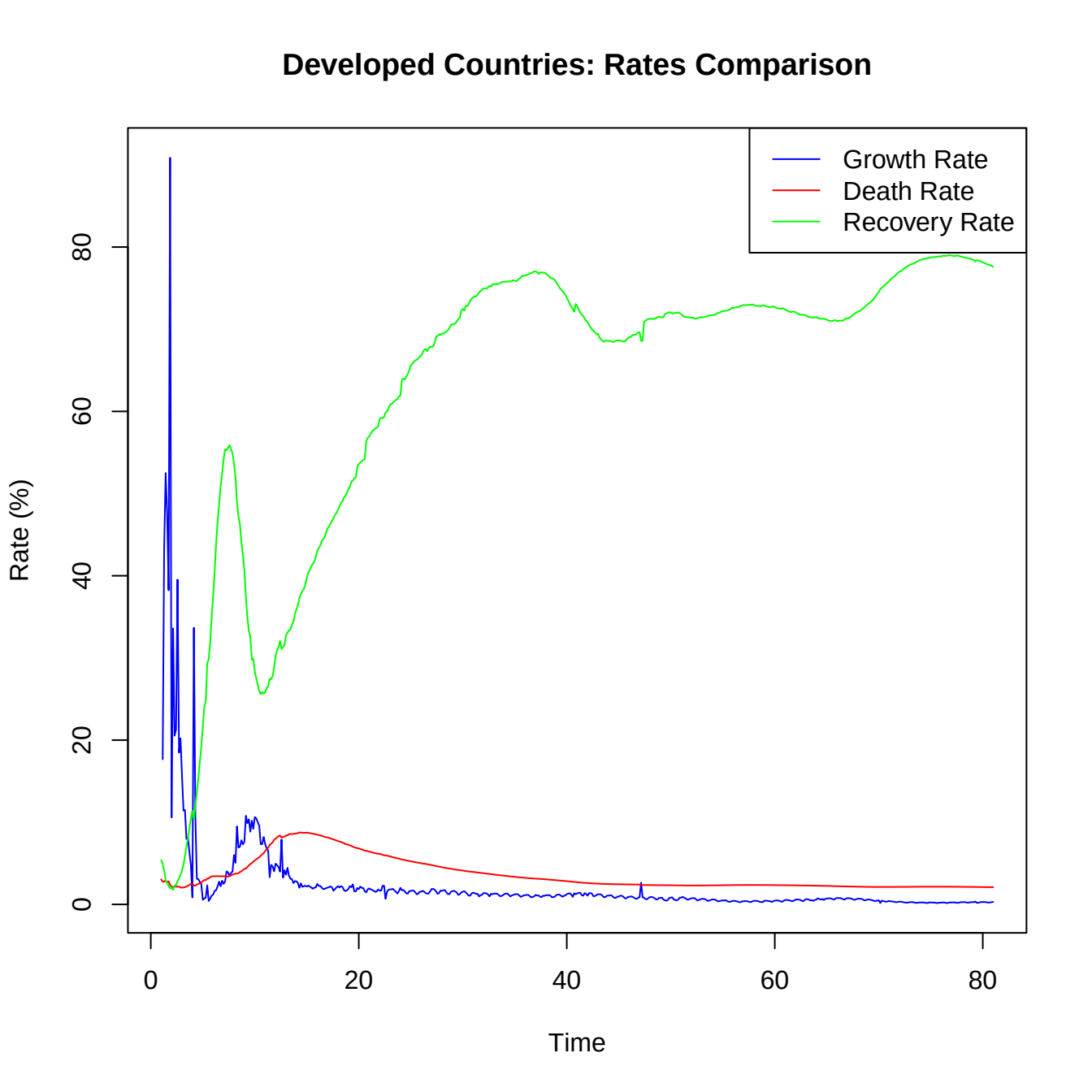

Developed Countries: Death Rate
Death Rate (%)
2
3
4
5
6
7
8
9
0
20
40
60
80
Time

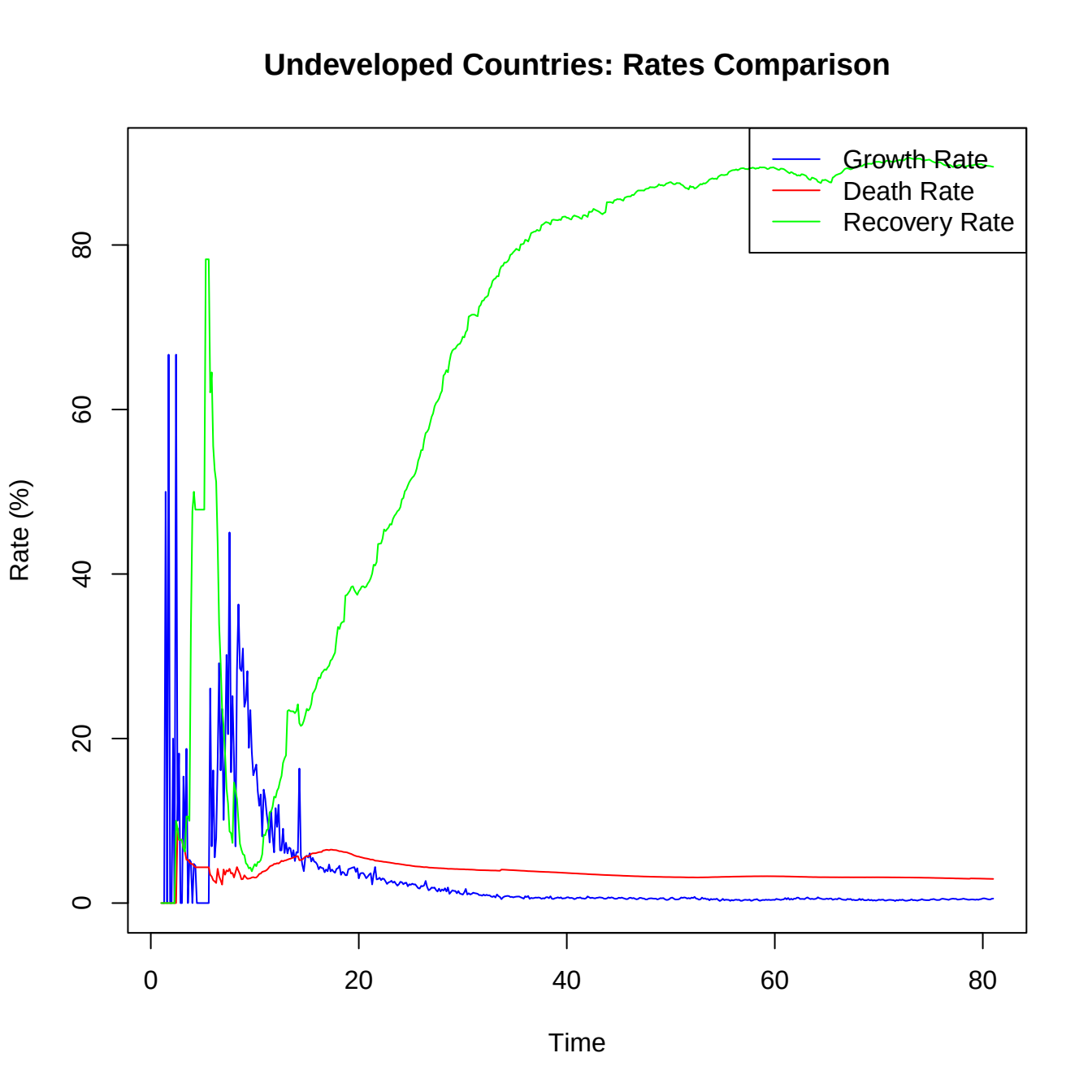

Developed Countries: Recovery Rate
Recovery Rate (%)
0
20
40
60
80
0
20
40
60
80
Time

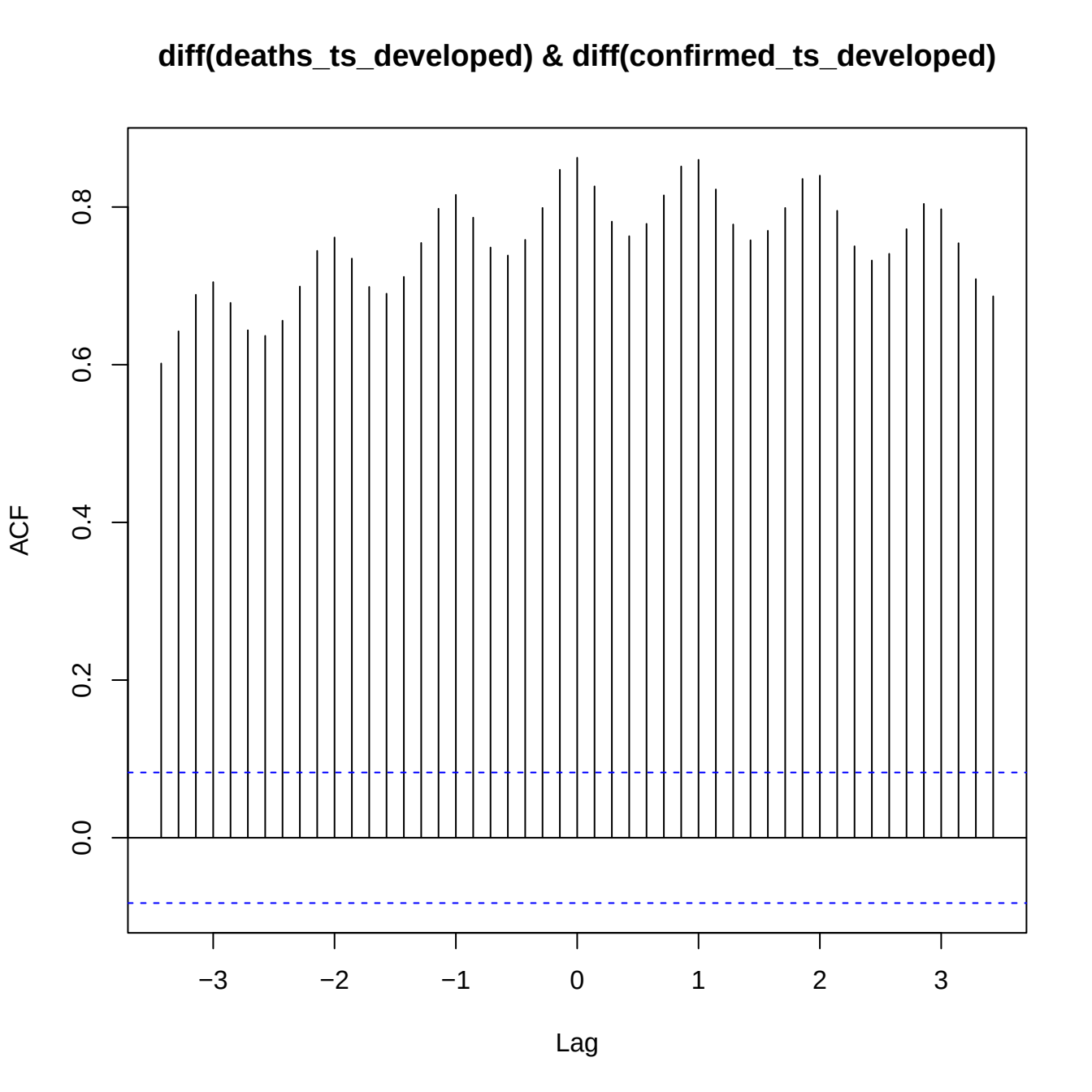

Undeveloped Countries: Confirmed Growth Rate
Growth Rate (%)
0
20
40
60
0
20
40
60
80
Time

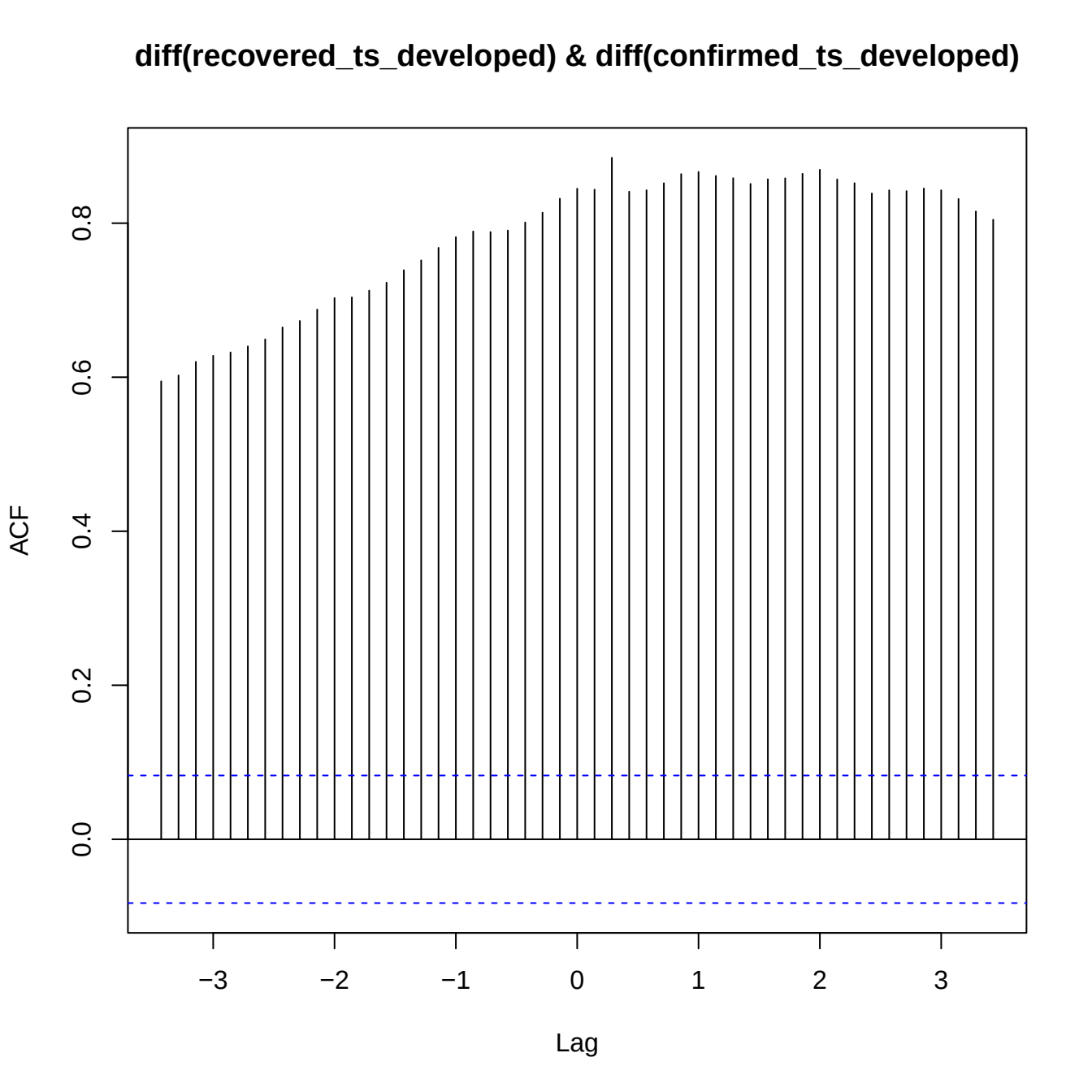

Undeveloped Countries: Death Rate
Death Rate (%)
0
2
4
6
8
0
20
40
60
80
Time

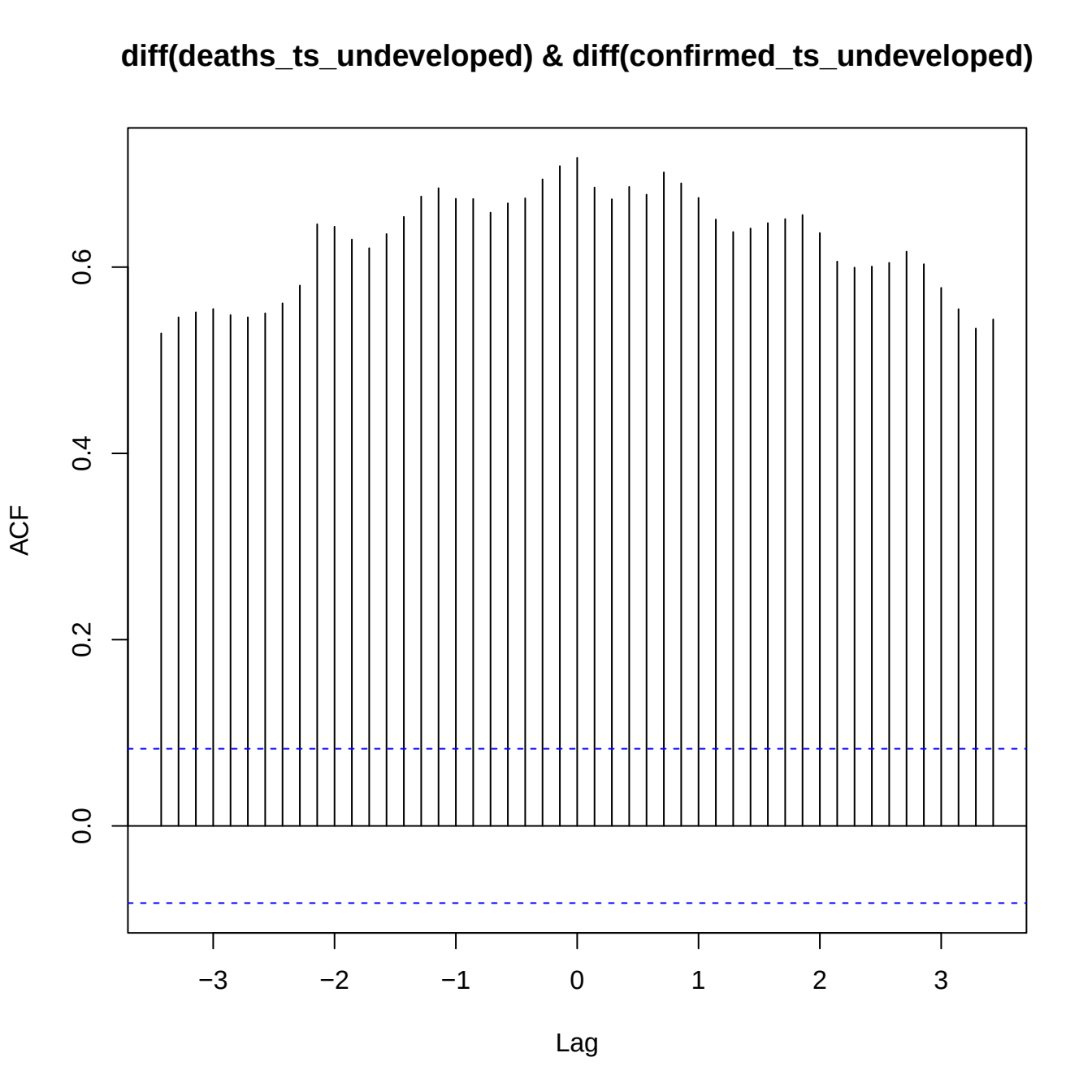

Undeveloped Countries: Recovery Rate
Recovery Rate (%)
0
20
40
60
80
0
20
40
60
80
Time

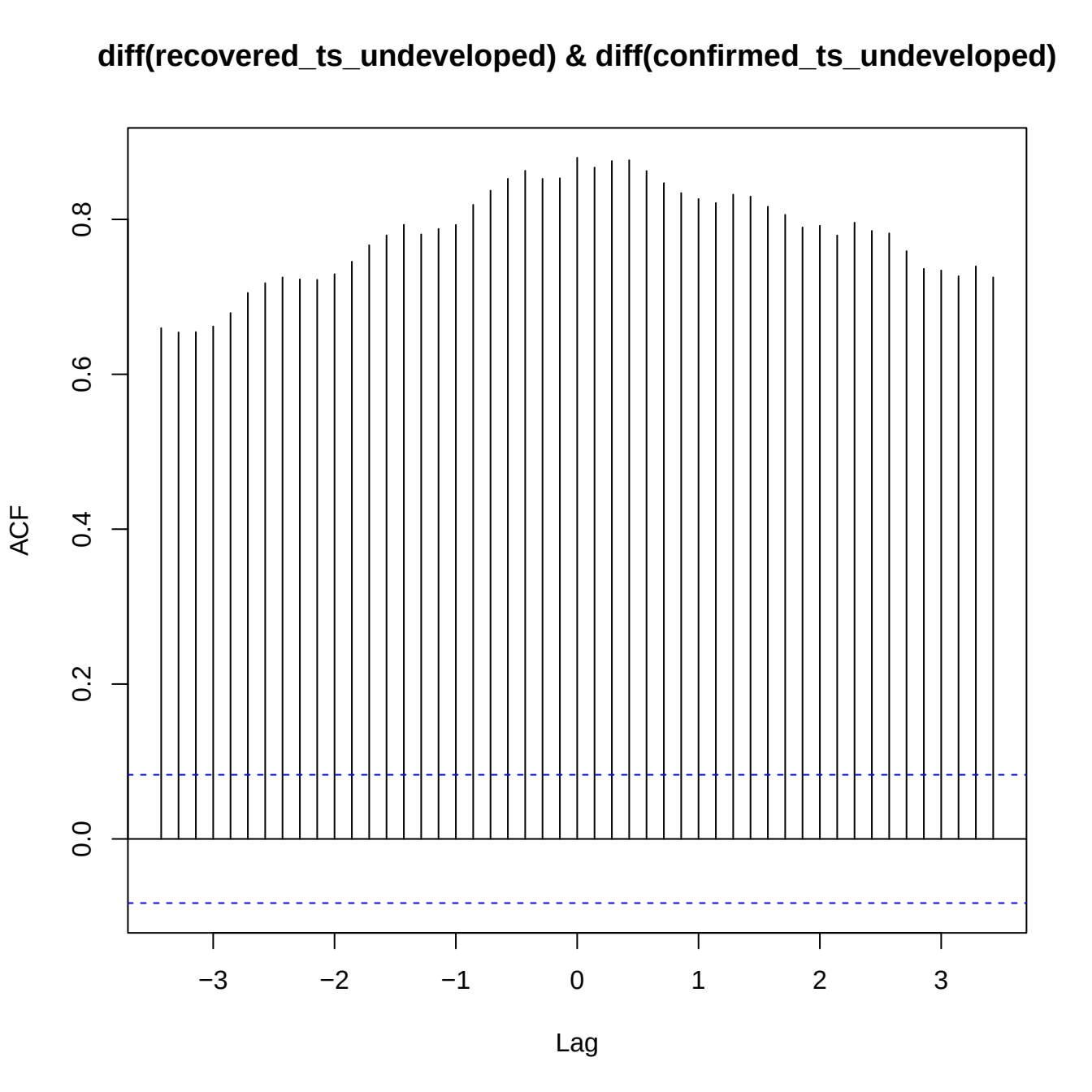

Developed Countries: Rates Comparison
Growth Rate
Death Rate
Recovery Rate
Rate (%)
0
20
40
60
80
Time
0
20
40
60
80

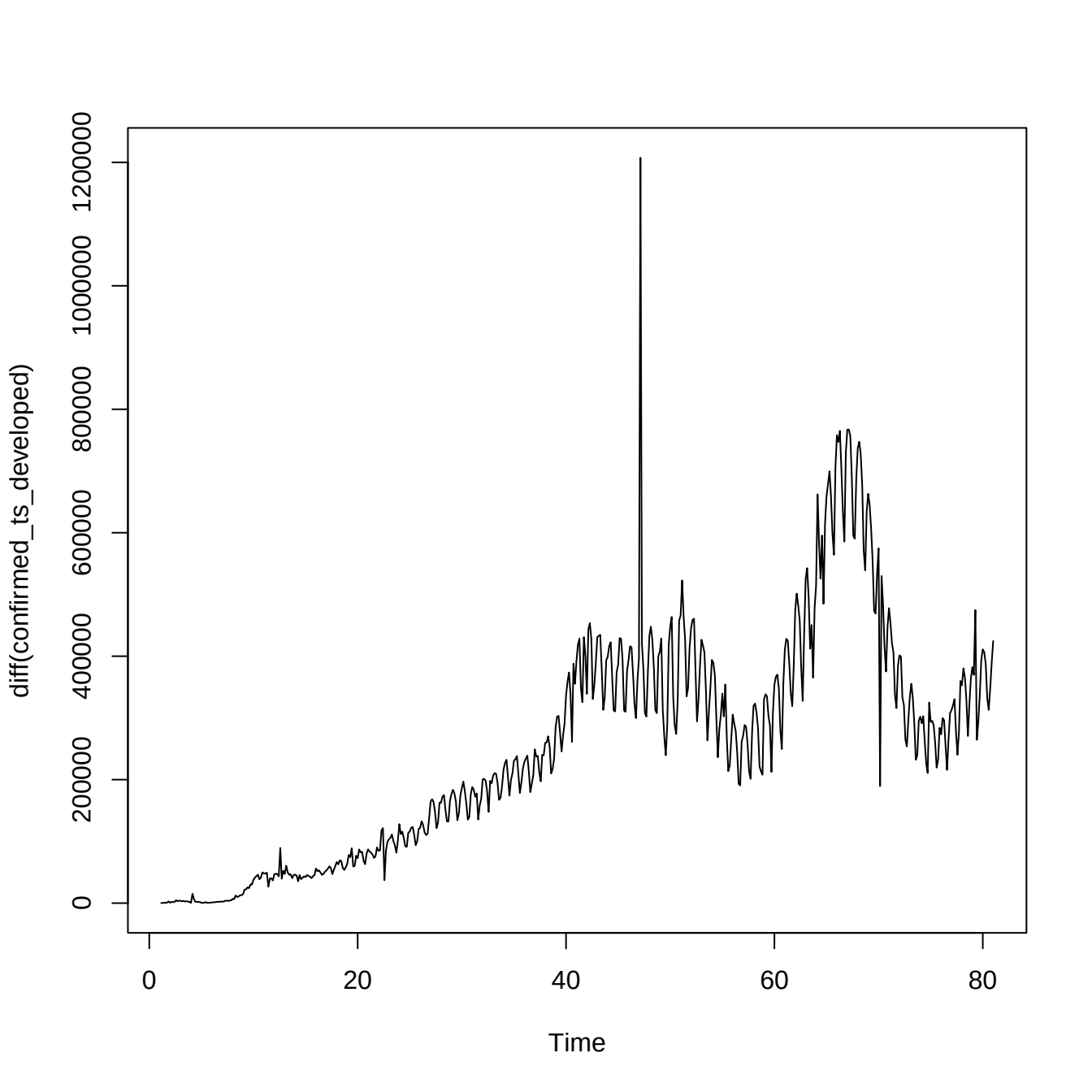

Undeveloped Countries: Rates Comparison
Growth Rate
Death Rate
Recovery Rate
Rate (%)
0
20
40
60
80
Time
0
20
40
60
80

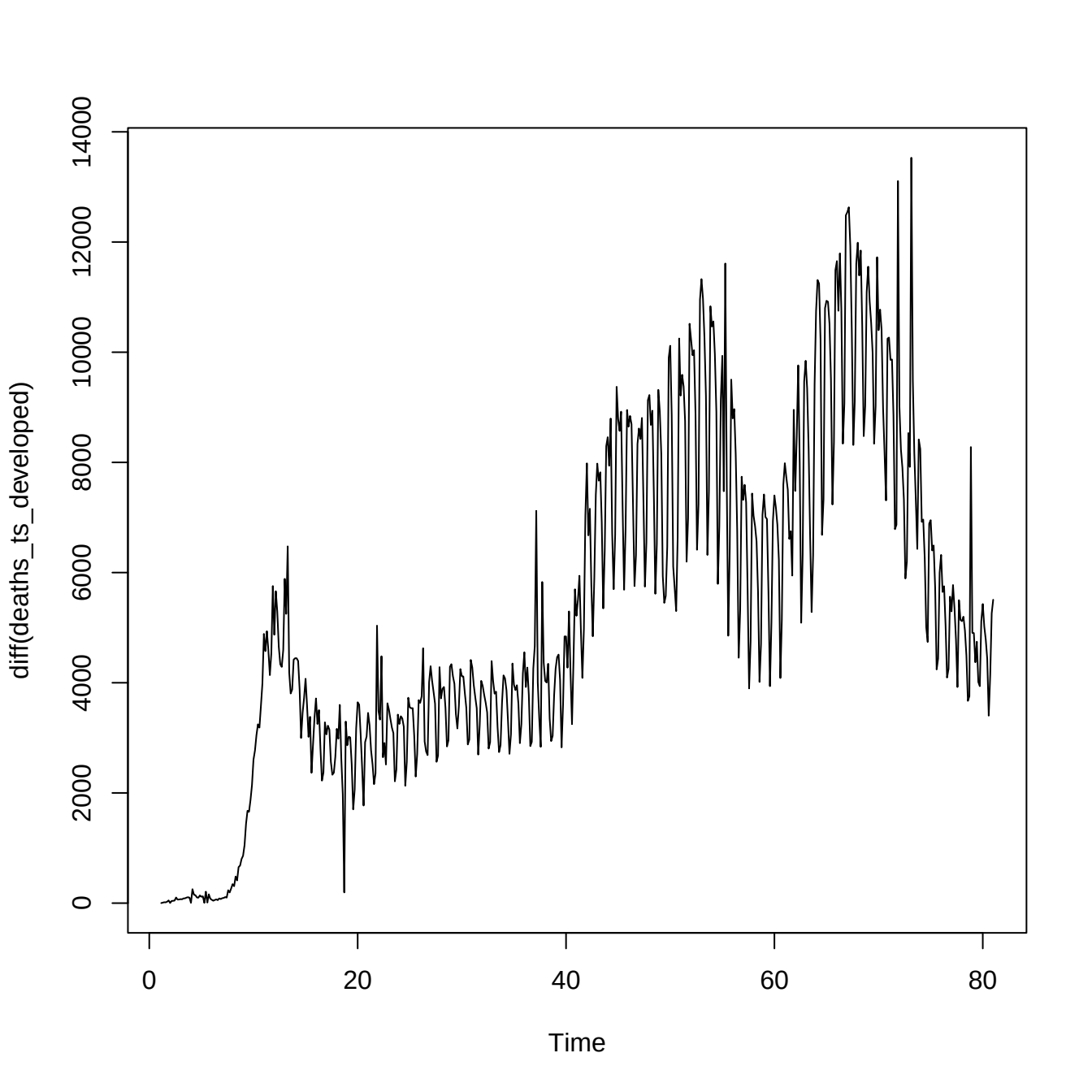

diff(deaths_ts_developed) & diff(confirmed_ts_developed)
ACF
0.0
0.2
0.4
0.6
0.8
−3
−2
−1
0
1
2
3
Lag

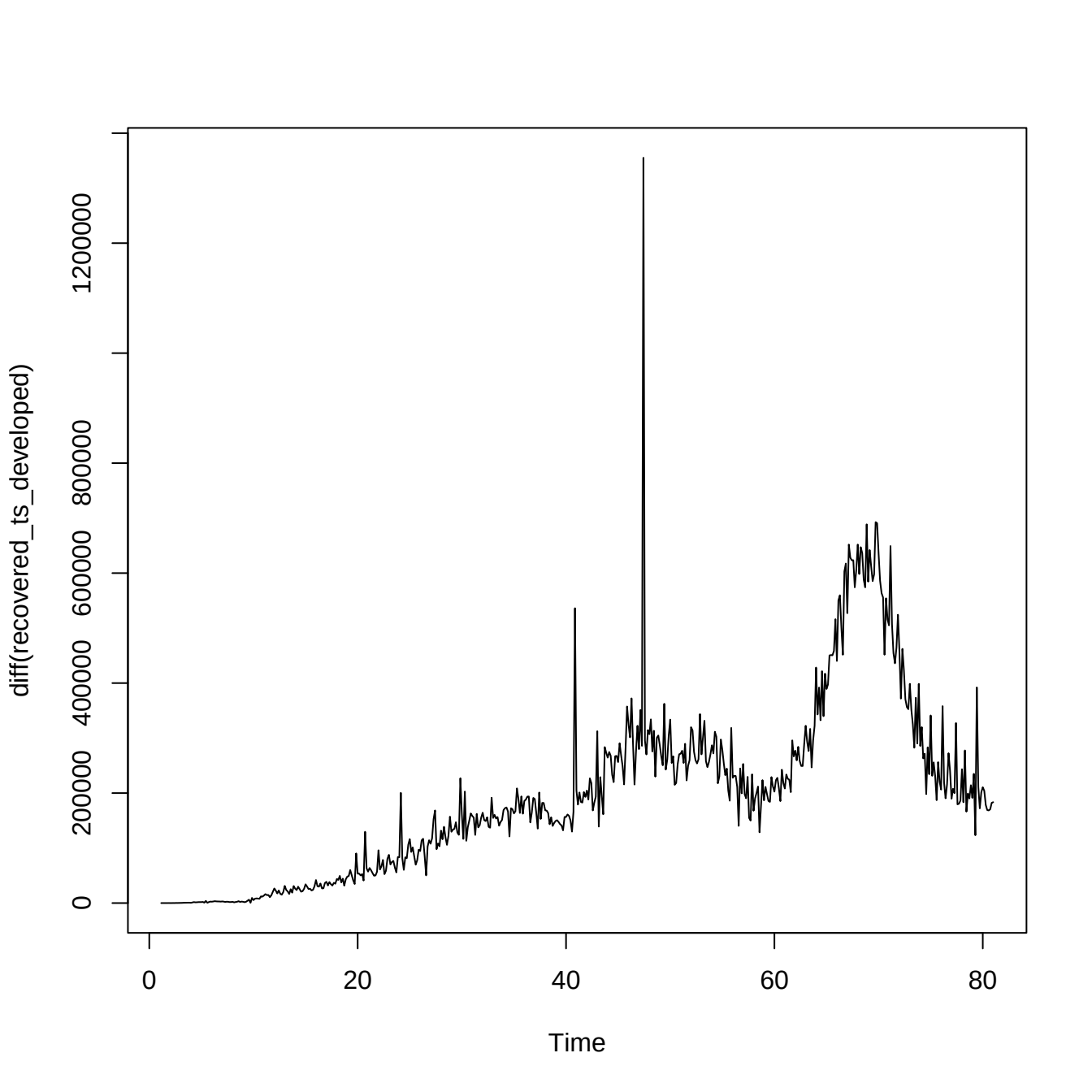

diff(recovered_ts_developed) & diff(confirmed_ts_developed)
ACF
0.0
0.2
0.4
0.6
0.8
−3
−2
−1
0
1
2
3
Lag

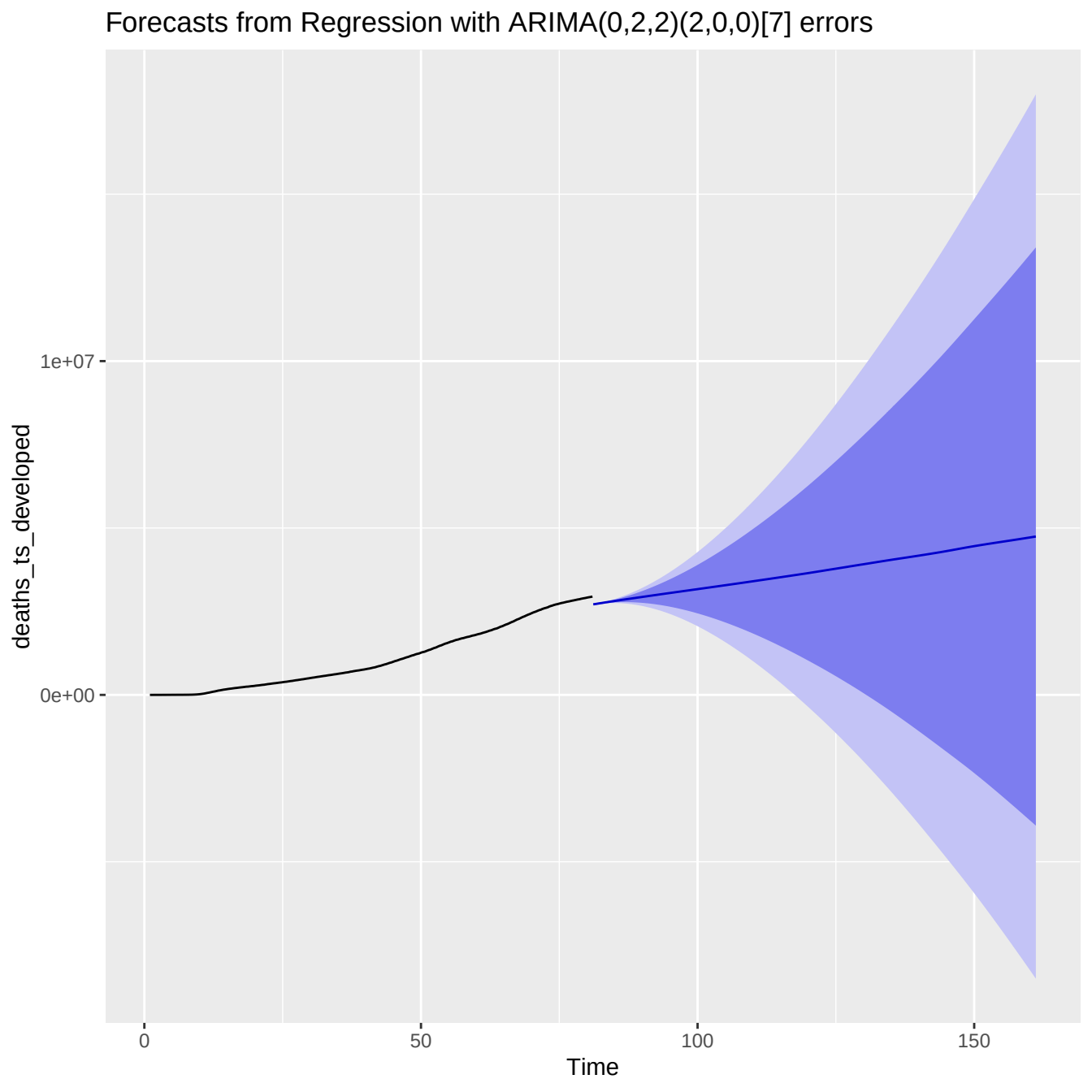

diff(deaths_ts_undeveloped) & diff(confirmed_ts_undeveloped)
ACF
0.0
0.2
0.4
0.6
−3
−2
−1
0
1
2
3
Lag

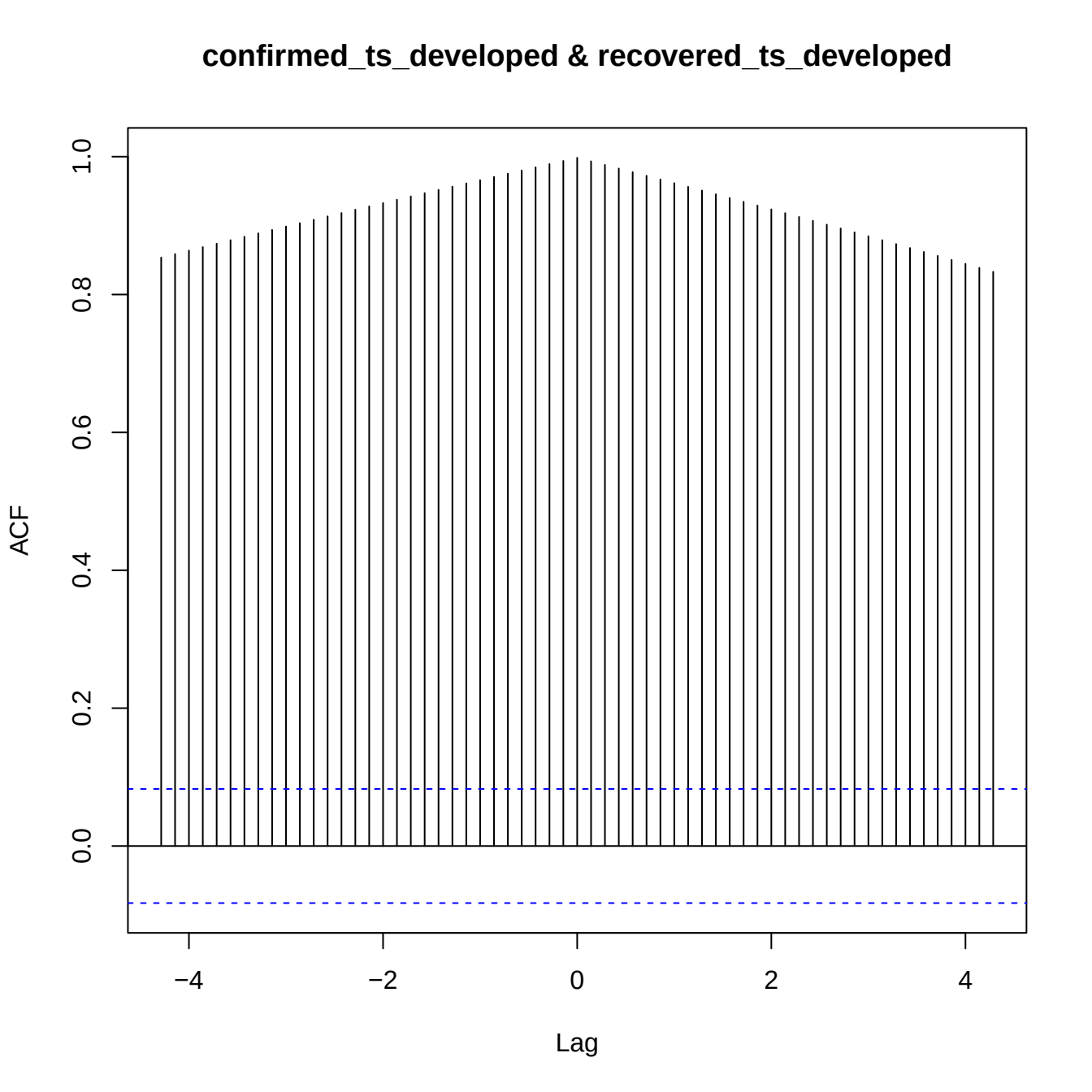

diff(recovered_ts_undeveloped) & diff(confirmed_ts_undeveloped)
ACF
0.0
0.2
0.4
0.6
0.8
−3
−2
−1
0
1
2
3
Lag

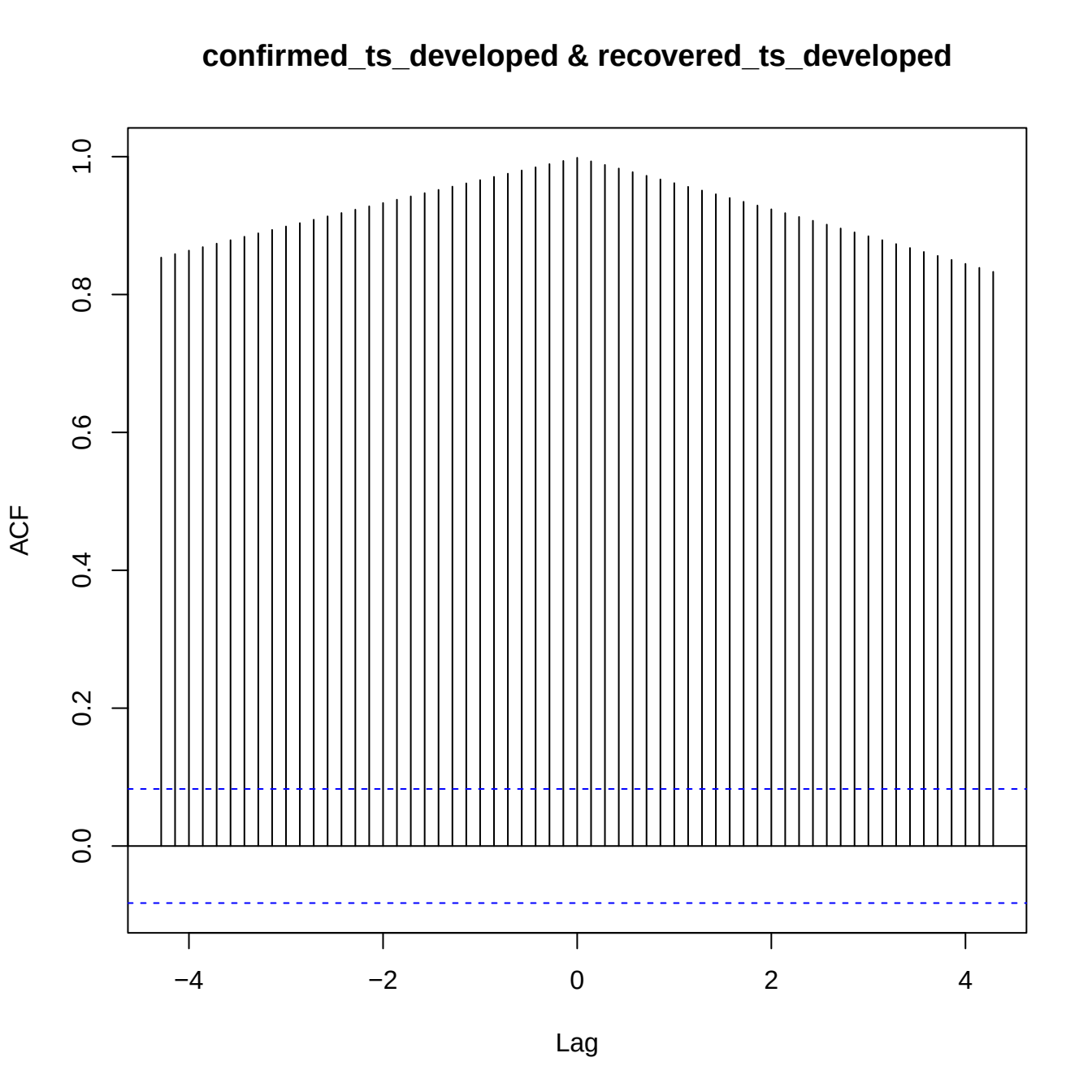

diff(confirmed_ts_developed)
0
200000
400000
600000
800000
1000000
1200000
0
20
40
60
80
Time


diff(deaths_ts_developed)
0
2000
4000
6000
8000
10000
12000
14000
0
20
40
60
80
Time


diff(recovered_ts_developed)
0
200000
400000
600000
800000
1200000
0
20
40
60
80
Time


Forecasts from Regression with ARIMA(0,2,2)(2,0,0)[7] errors
deaths_ts_developed
1e+07
0e+00
0
50
100
150
Time


confirmed_ts_developed & recovered_ts_developed
ACF
1.0
0.8
0.6
0.4
0.2
0.0
−4
−2
0
2
4
Lag


confirmed_ts_developed & recovered_ts_developed
ACF
1.0
0.8
0.6
0.4
0.2
0.0
−4
−2
0
2
4
Lag