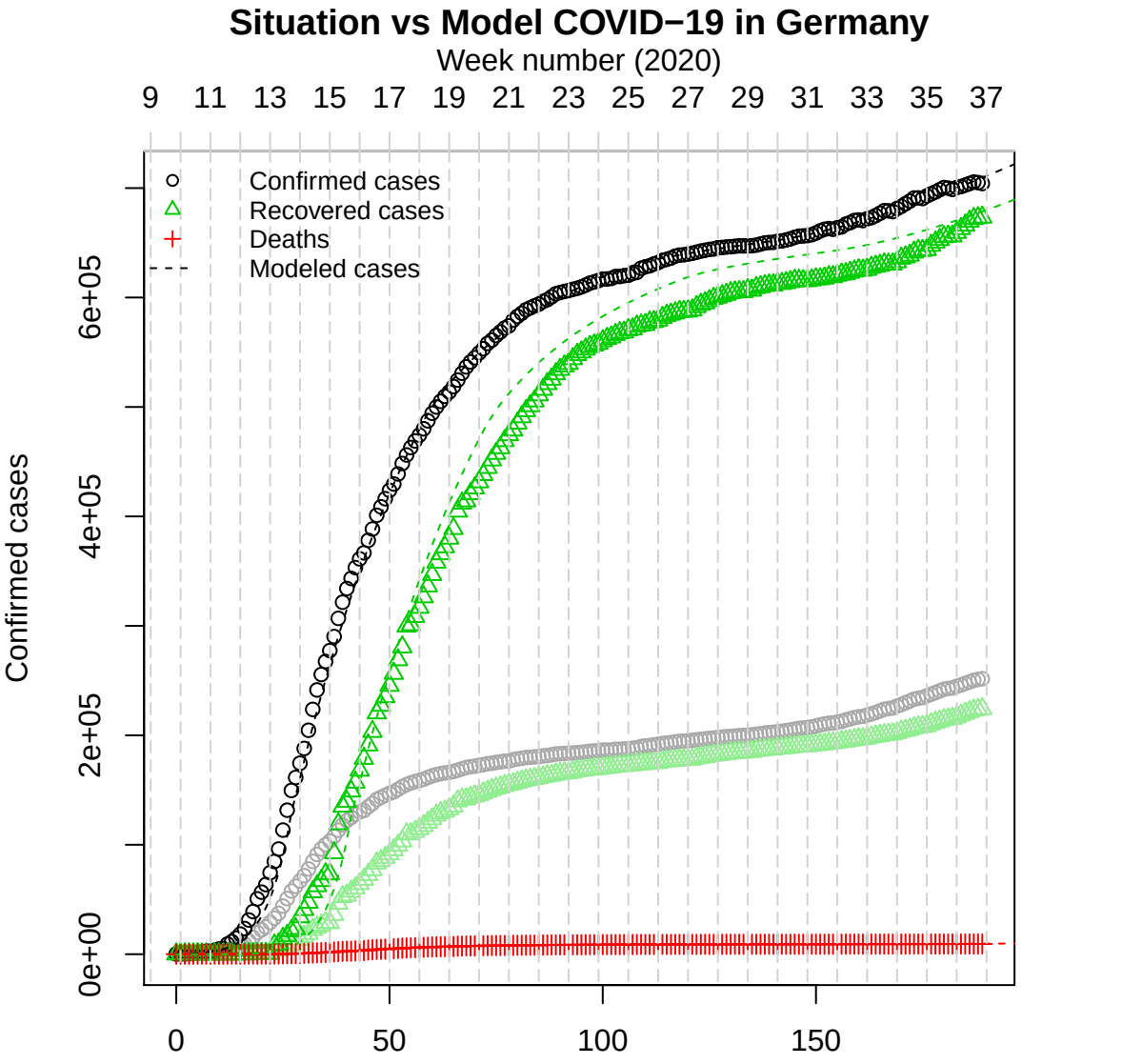

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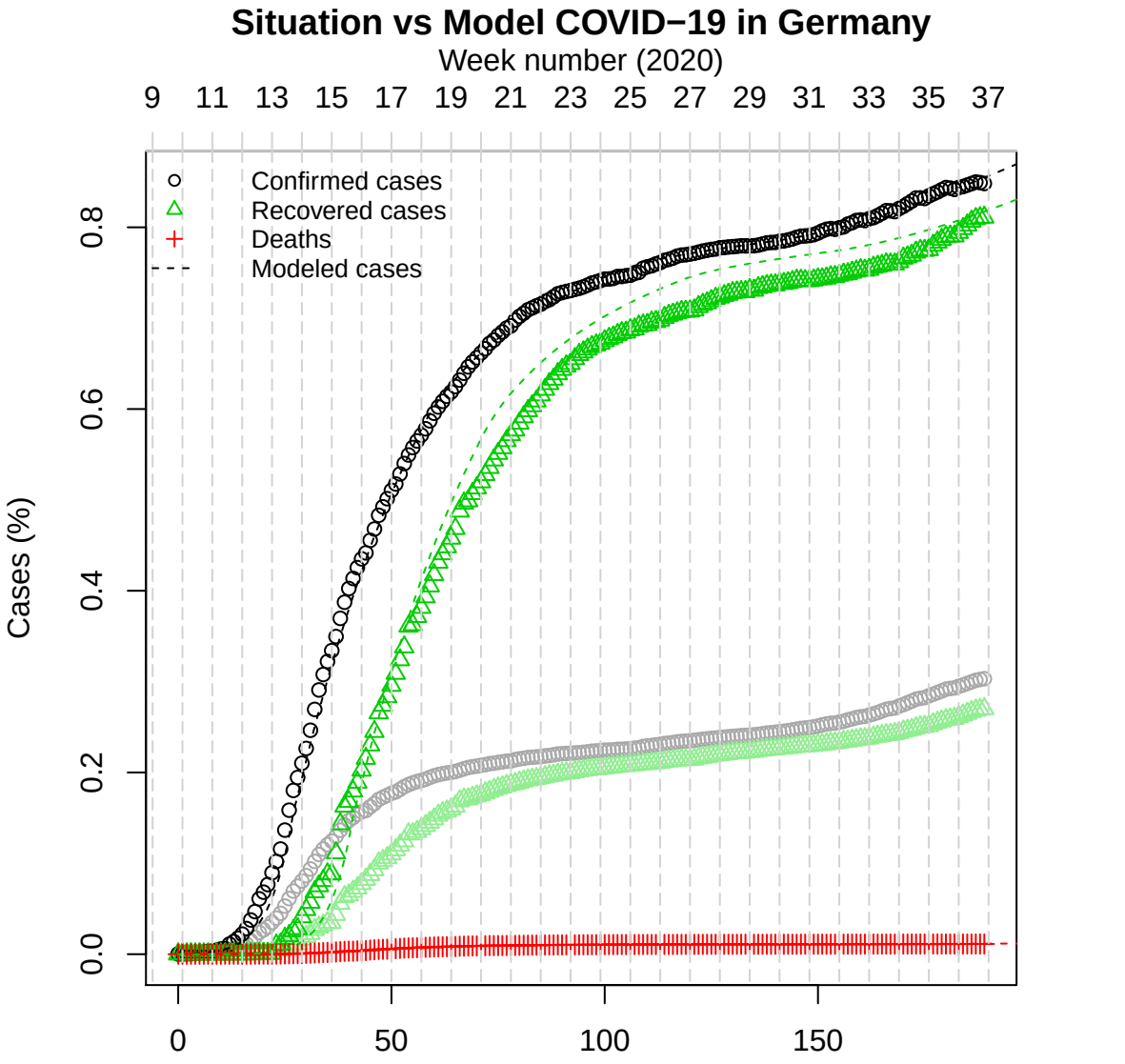
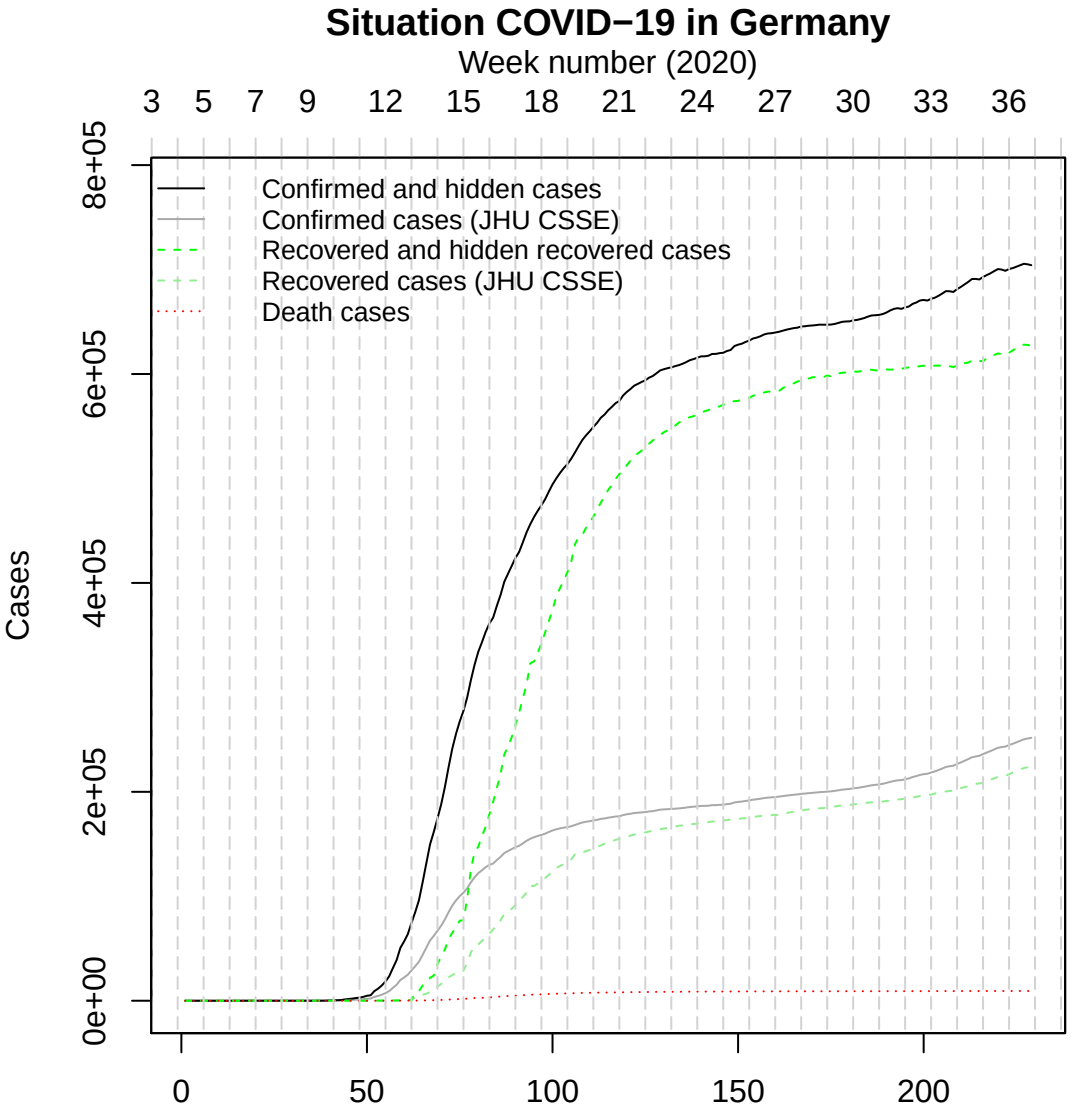

Situation vs Model COVID−19 in Germany
Week number (2020)
9 11 13 15 17 19 21 23 25 27 29 31 33 35 37
Confirmed cases
Recovered cases
Deaths
Modeled cases
Cases (%)
0.0 0.2 0.4 0.6 0.8
0 50 100 150
Days after 3/1/20
Created by Sören Thiering (09/08/2020). Email: soeren.thiering@hs−anhalt.de



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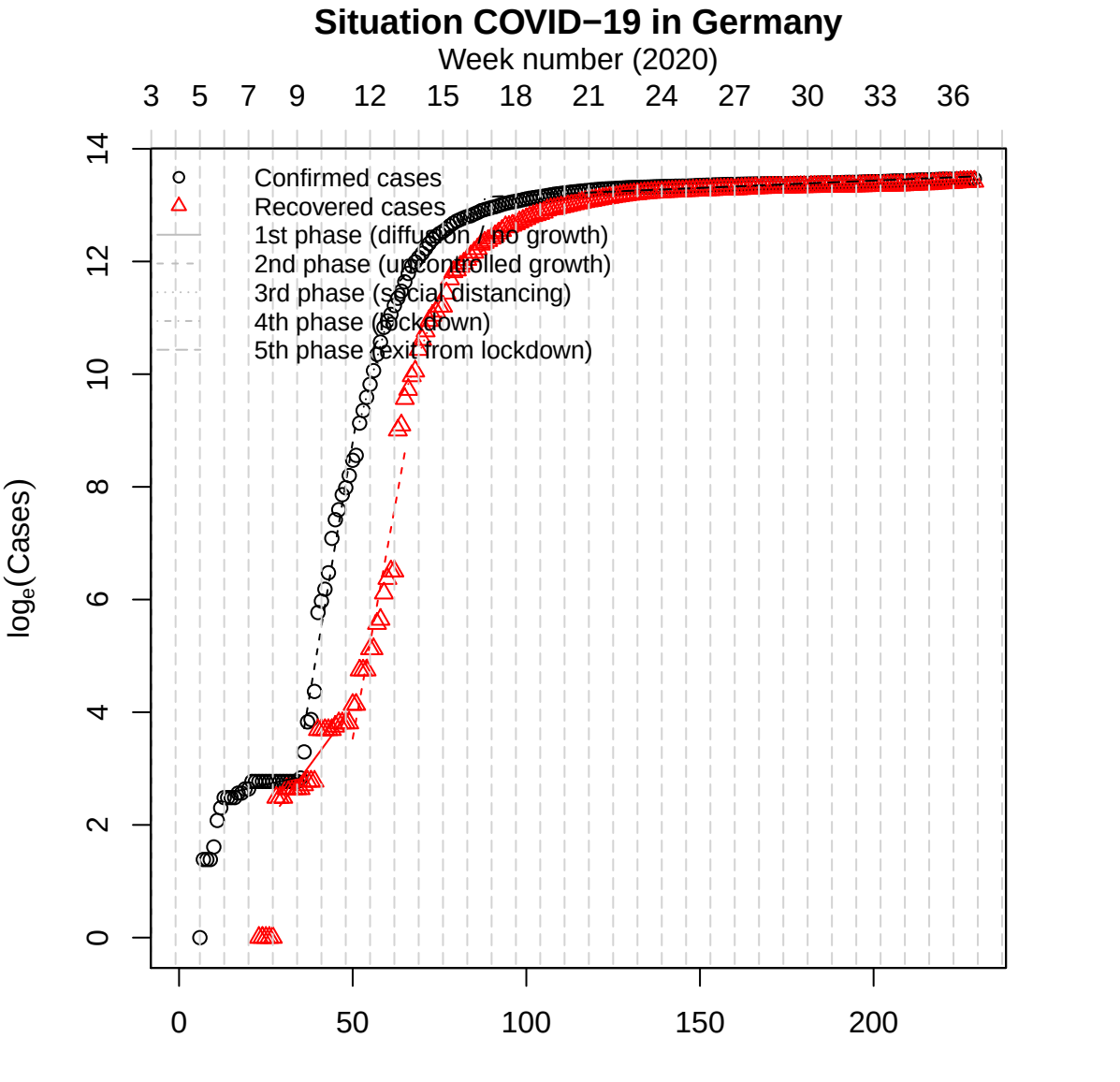

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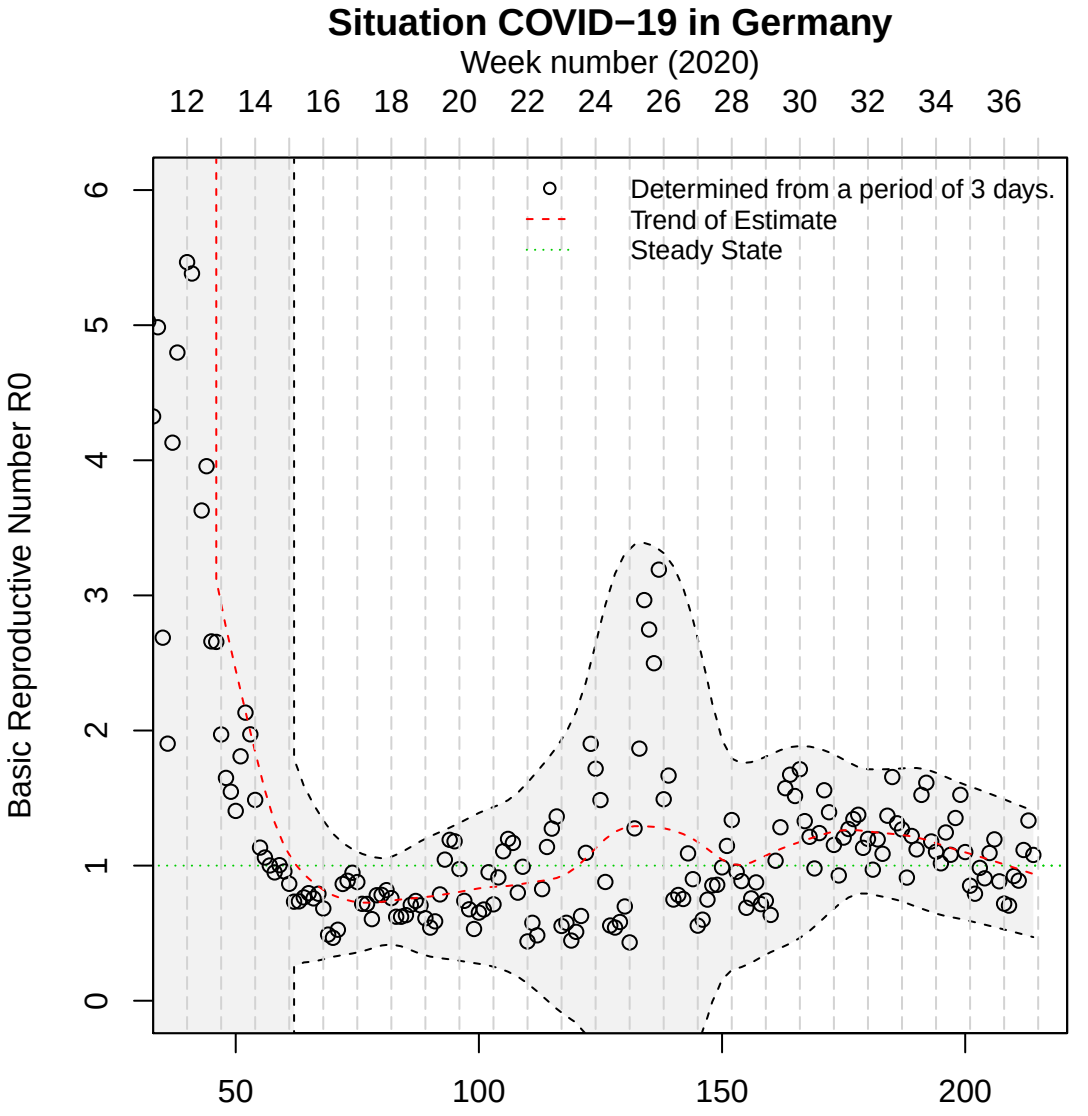

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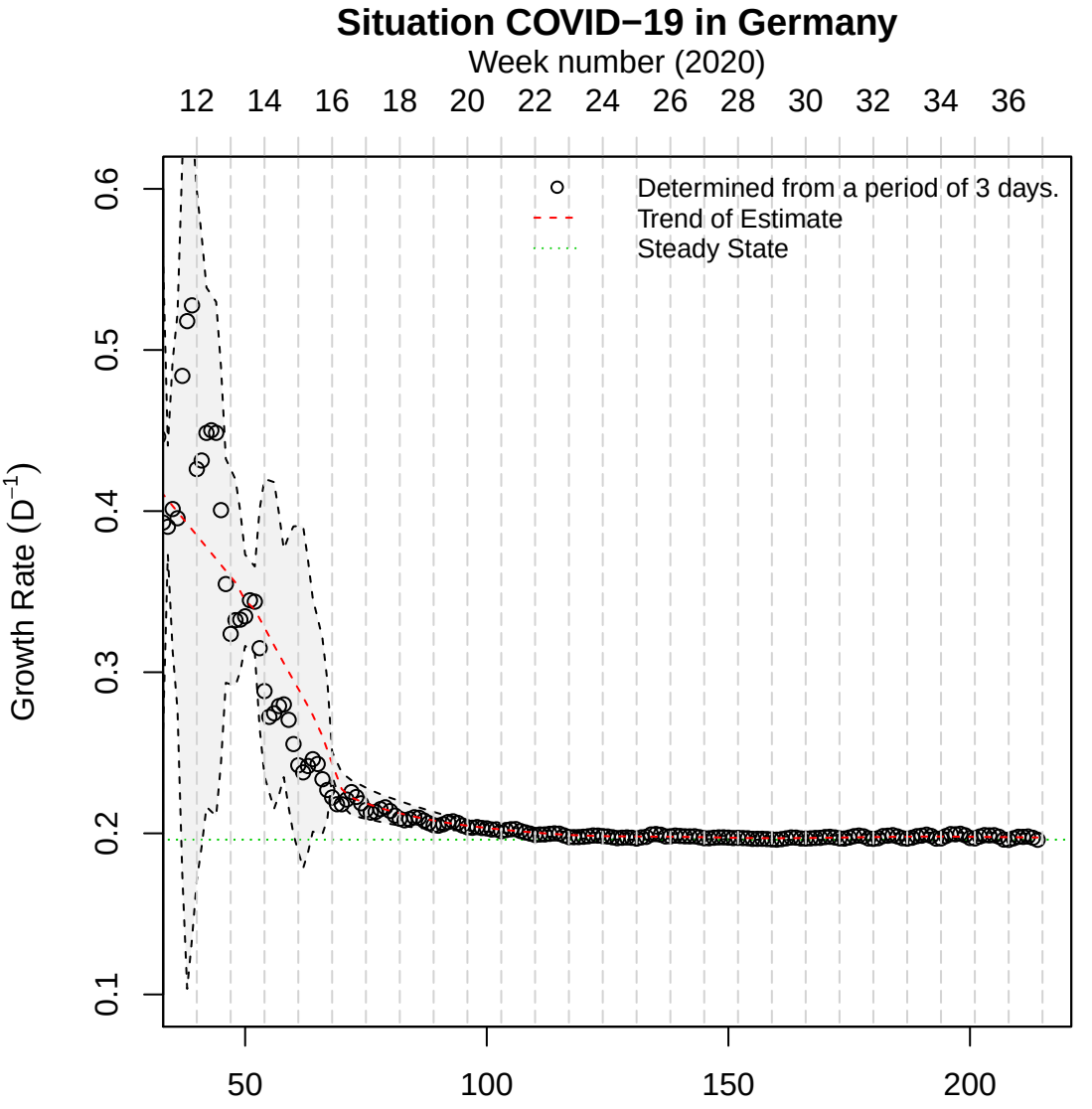

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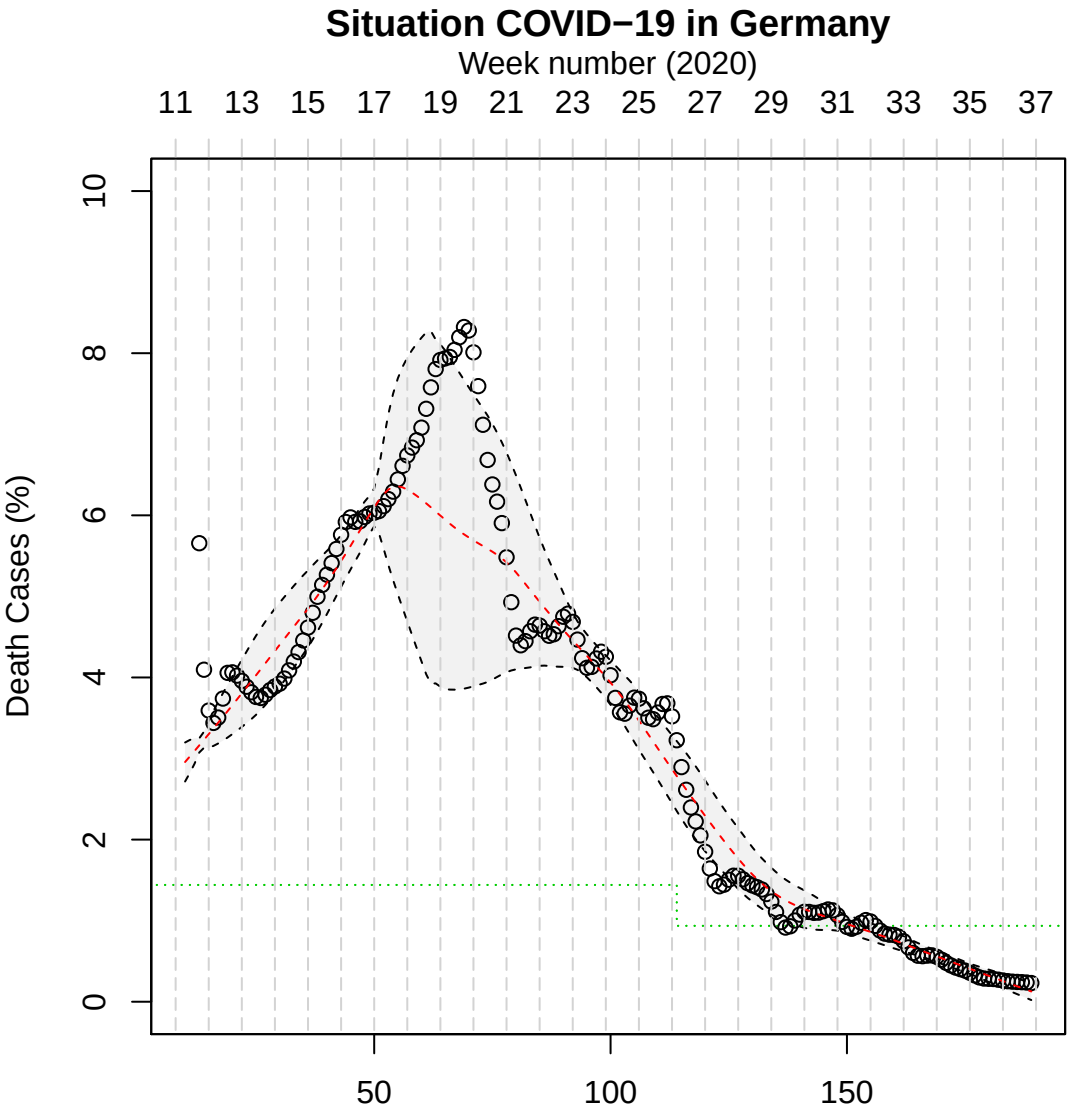

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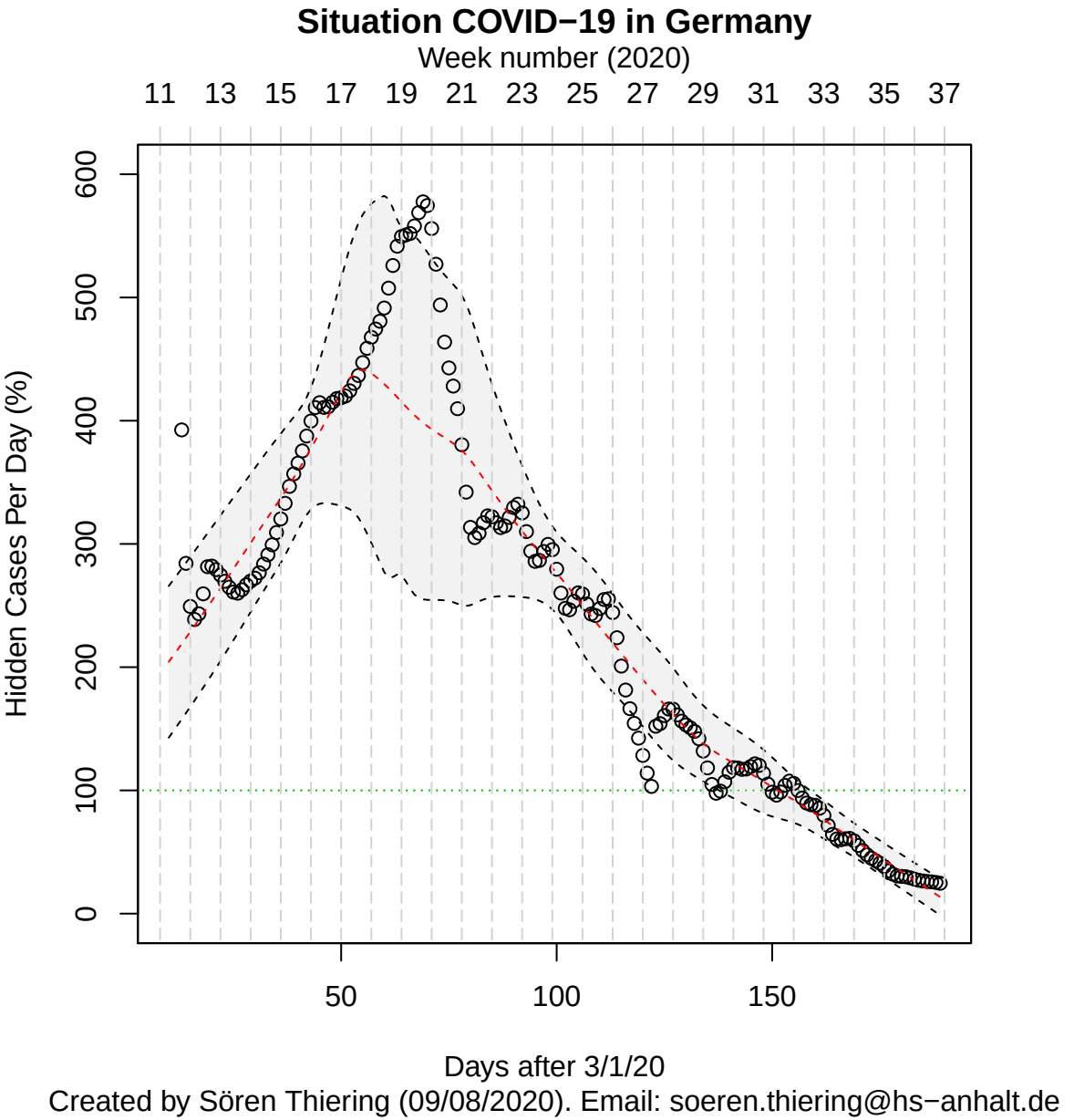
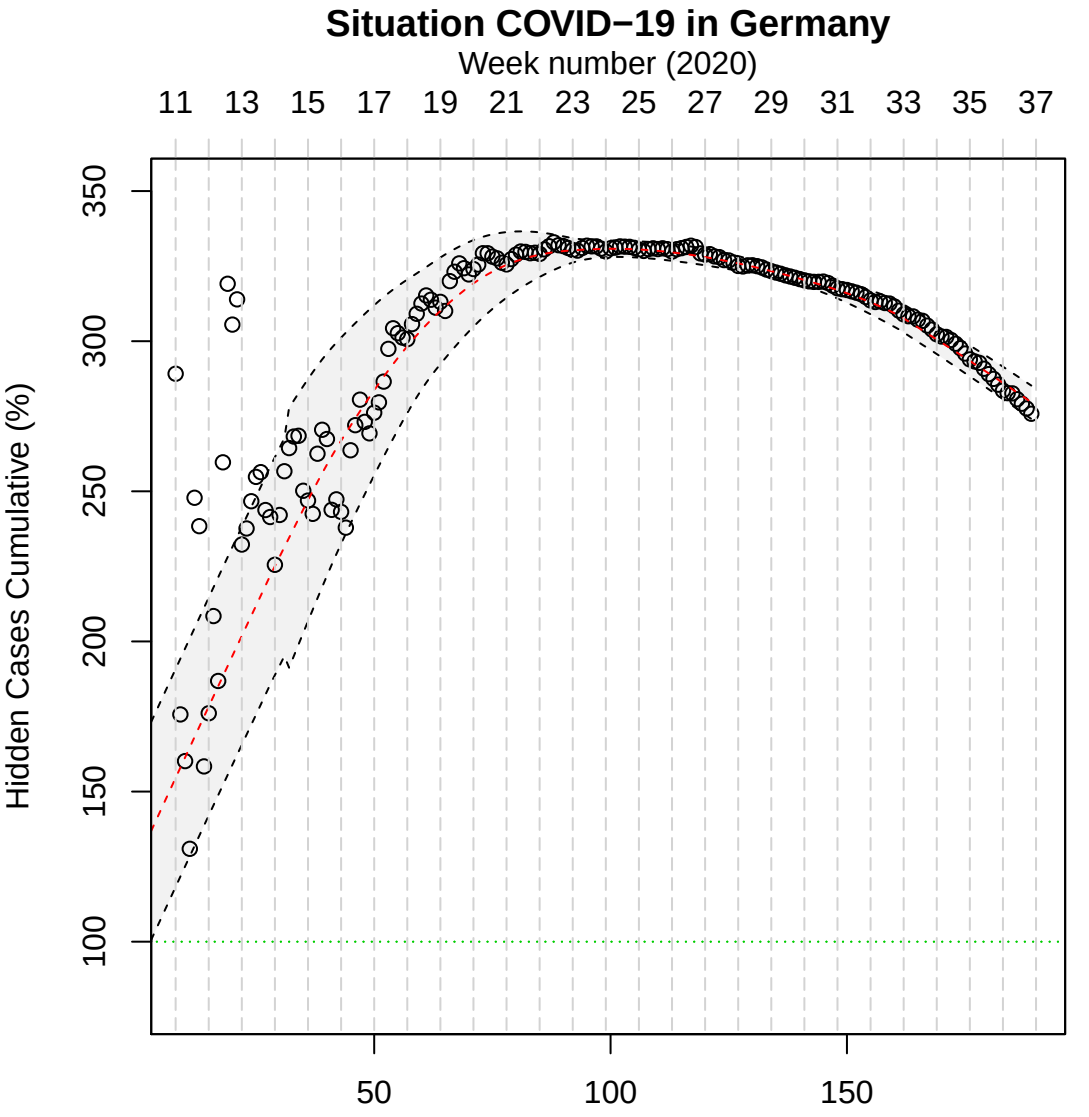
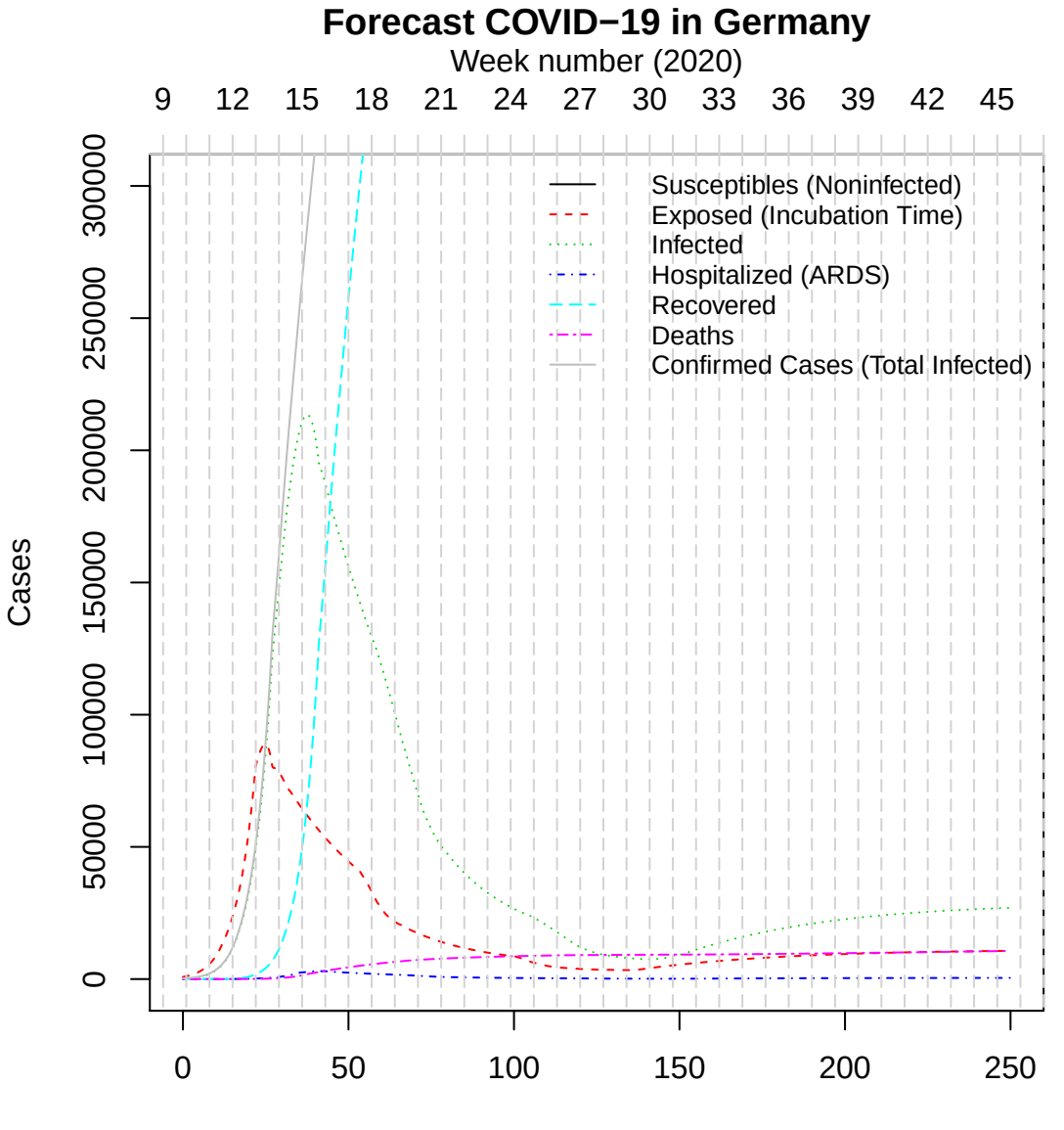
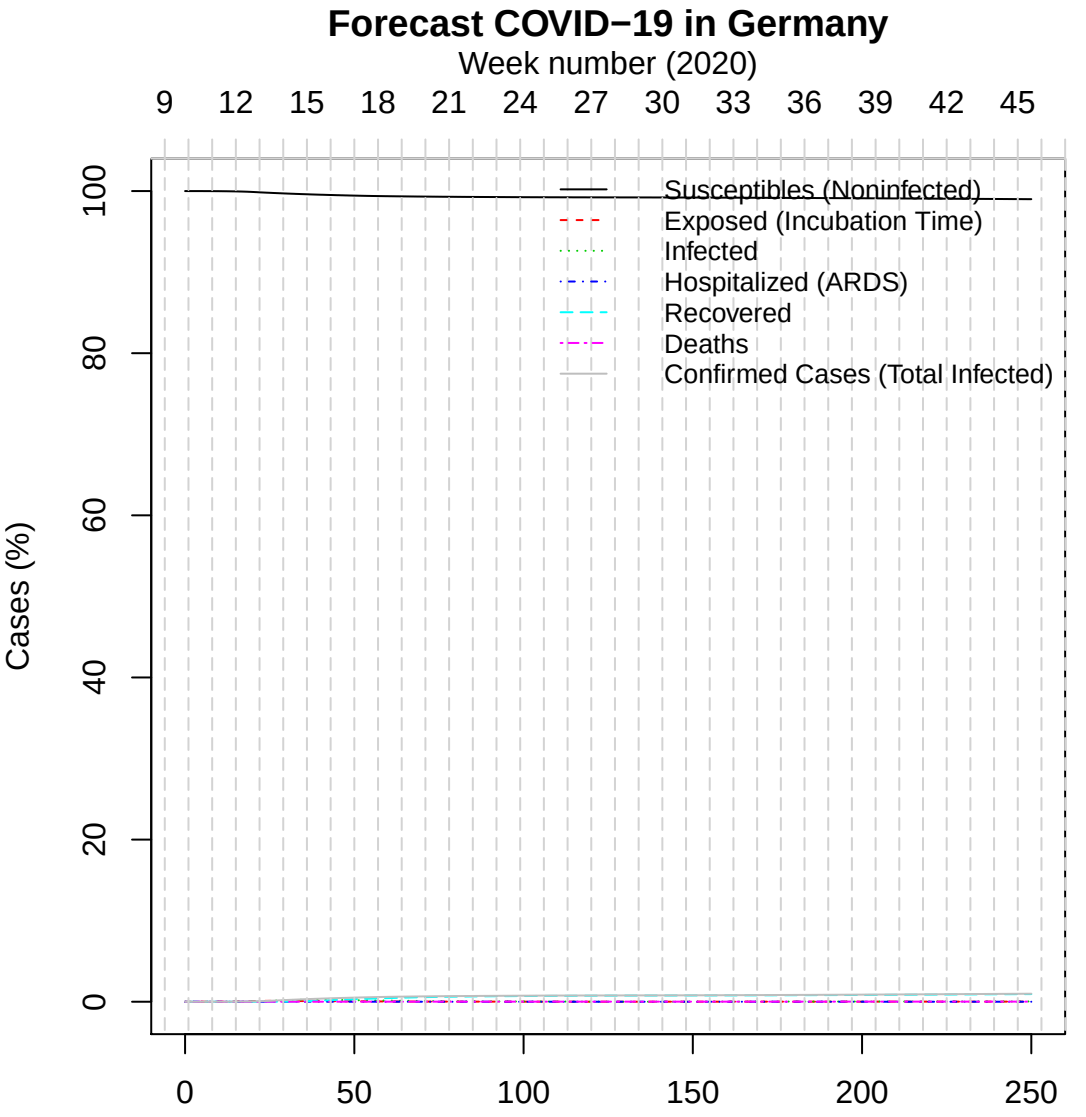

Situation COVID−19 in Germany
Week number (2020)
11 13 15 17 19 21 23 25 27 29 31 33 35 37
Hidden Cases Per Day (%)
0 100 200 300 400 500 600
50 100 150
Days after 3/1/20
Created by Sören Thiering (09/08/2020). Email: soeren.thiering@hs−anhalt.de



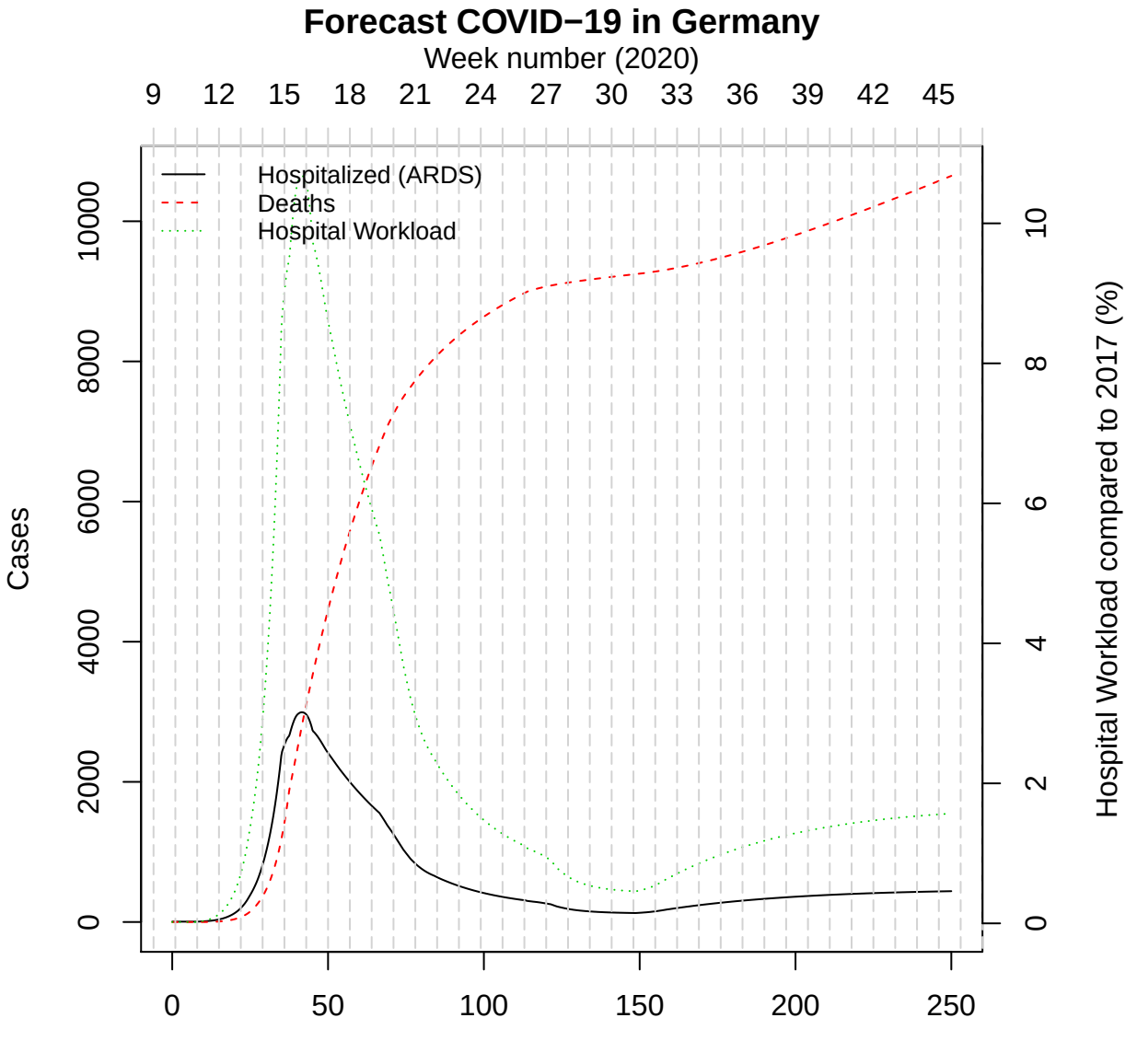
Created by Sören Thiering (09/08/2020). Email: soeren.thiering@hs−anhalt.de



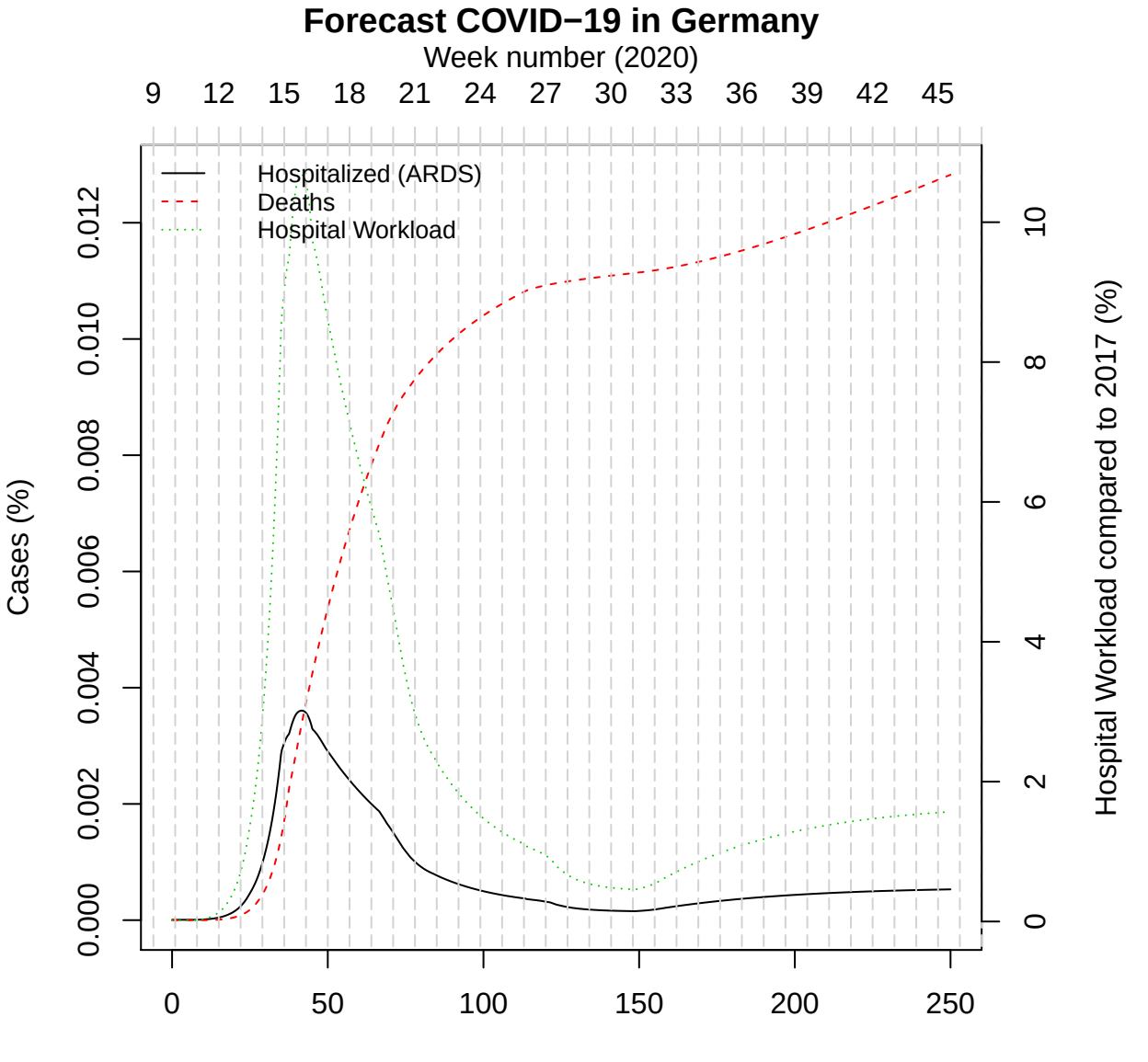
Created by Sören Thiering (09/08/2020). Email: soeren.thiering@hs−anhalt.de

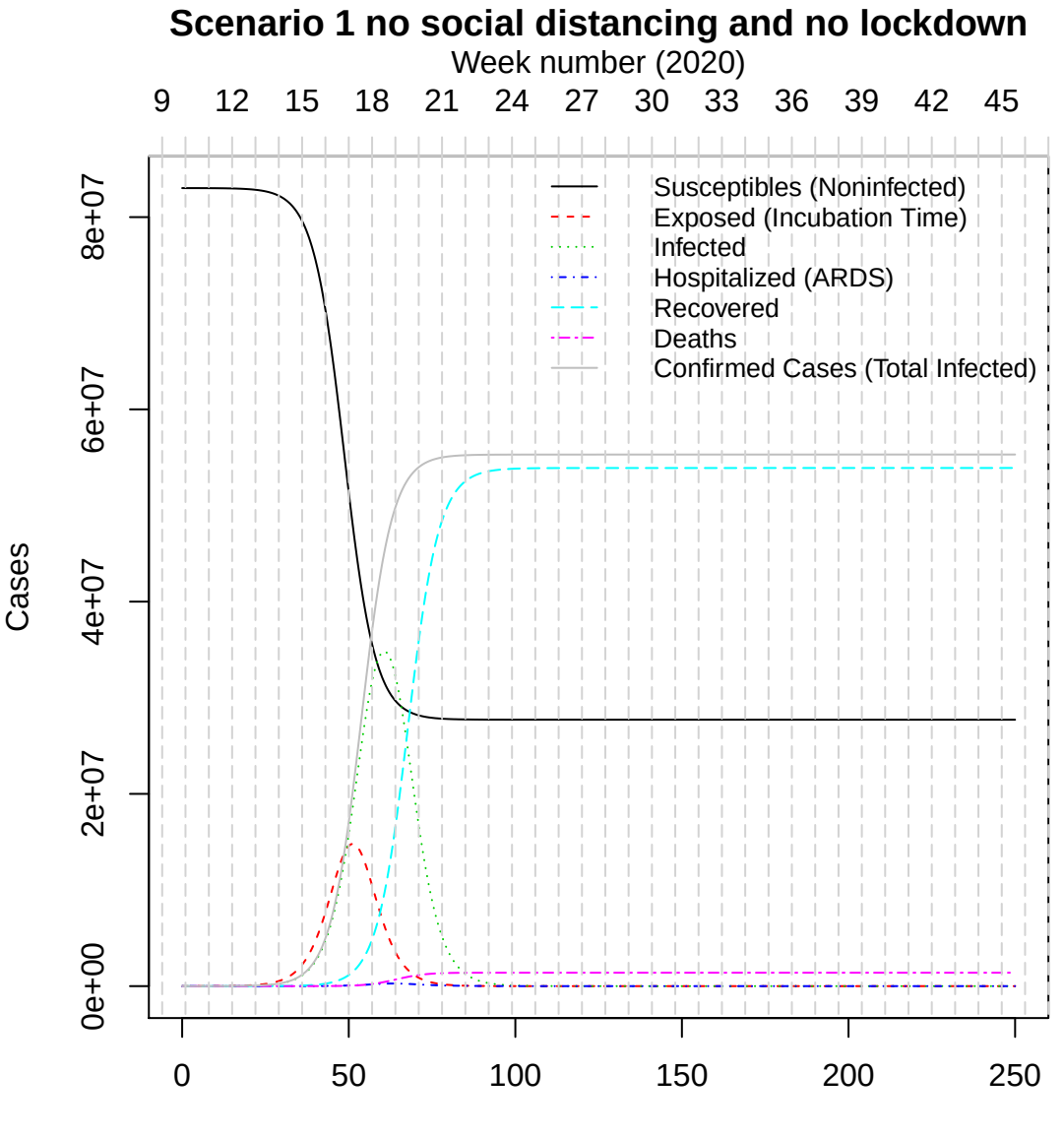


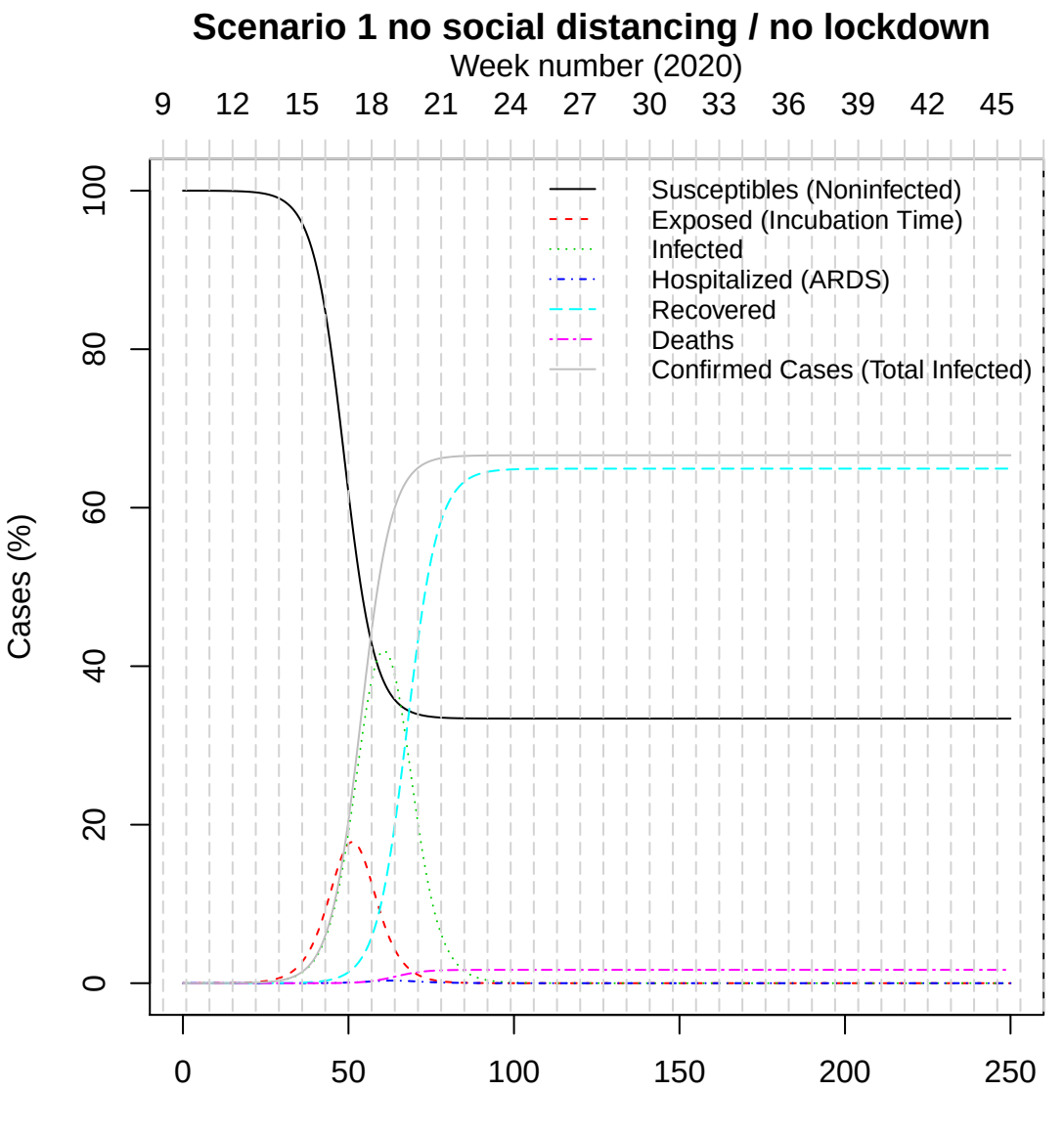
Created by Sören Thiering (09/08/2020). Email: soeren.thiering@hs−anhalt.de

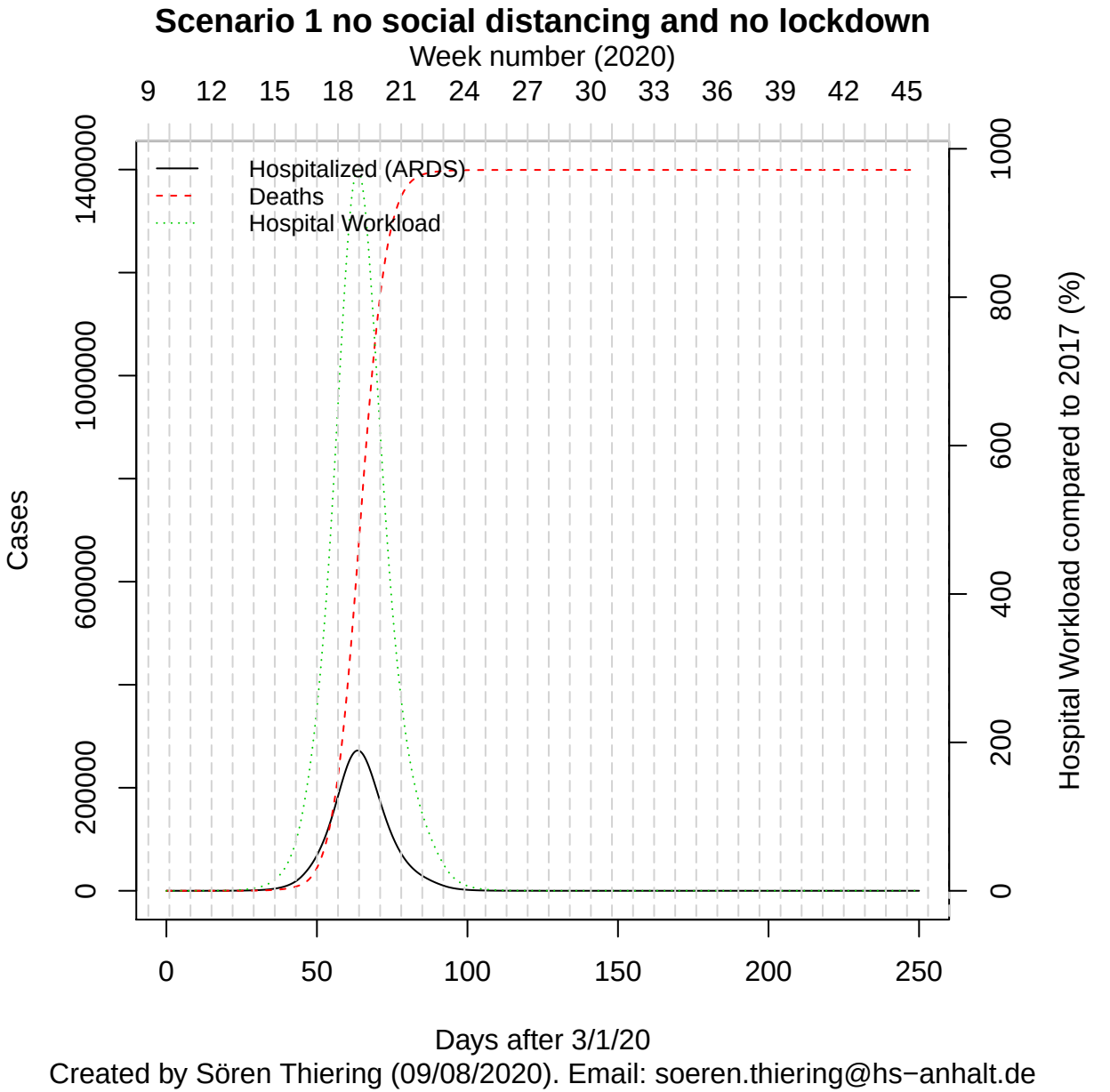


Created by Sören Thiering (09/08/2020). Email: soeren.thiering@hs−anhalt.de

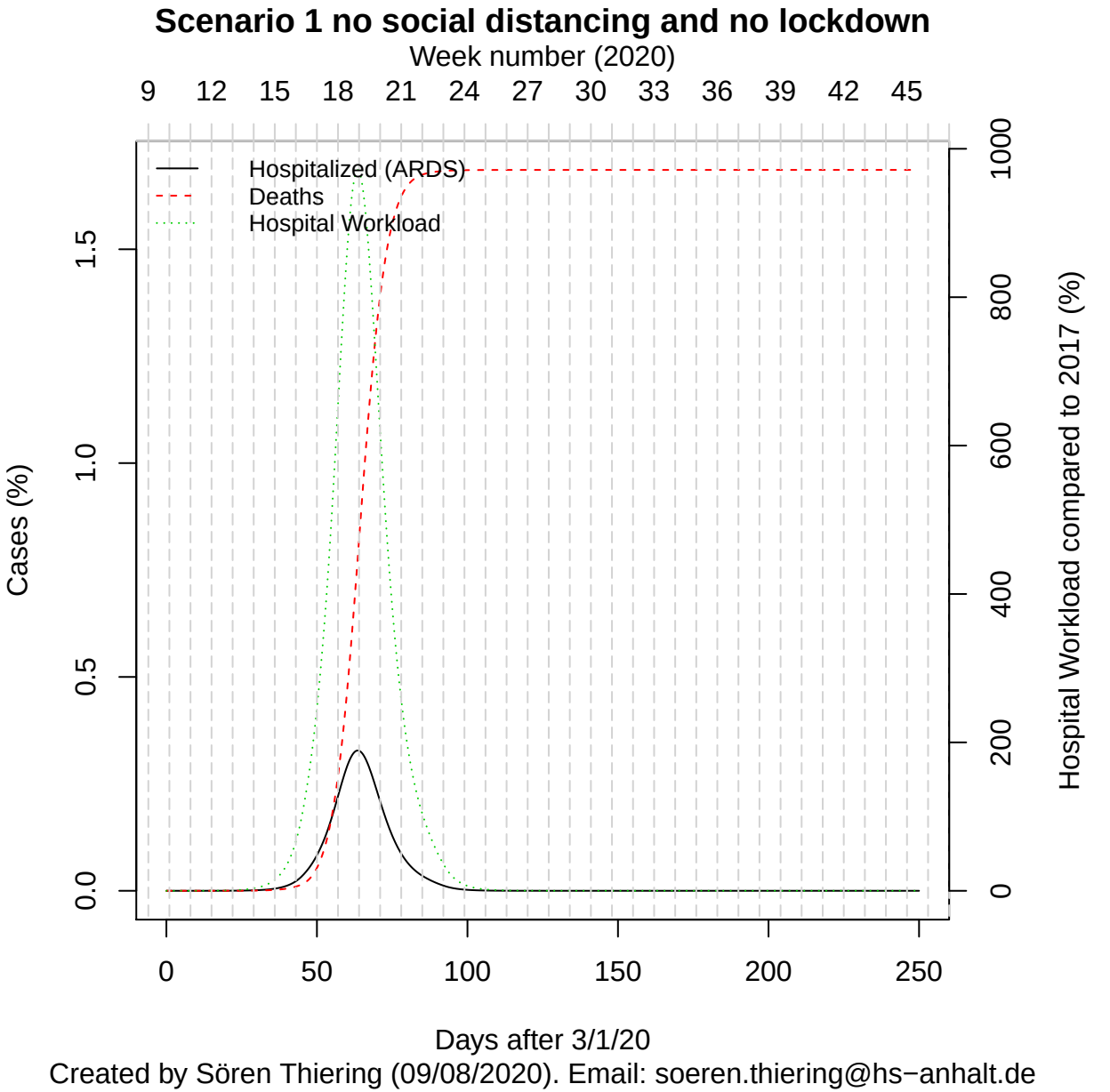

Forecast COVID−19 in Germany
Week number (2020)
9
12
15
18
21
24
27
30
33
36
39
42
45
Hospitalized (ARDS)
Deaths
Hospital Workload
Cases (%)
0.000
0.002
0.004
0.006
0.008
0.010
0.012
Hospital Workload compared to 2017 (%)
0
2
4
6
8
10
0
50
100
150
200
250
Days after 3/1/20
Created by Sören Thiering (09/08/2020). Email: soeren.thiering@hs−anhalt.de


Scenario 1 no social distancing and no lockdown
Week number (2020)
9
12
15
18
21
24
27
30
33
36
39
42
45
Susceptibles (Noninfected)
Exposed (Incubation Time)
Infected
Hospitalized (ARDS)
Recovered
Deaths
Confirmed Cases (Total Infected)
Cases
0e+00
2e+07
4e+07
6e+07
8e+07
0
50
100
150
200
250
Days after 3/1/20
Created by Sören Thiering (09/08/2020). Email: soeren.thiering@hs−anhalt.de


Scenario 1 no social distancing / no lockdown
Week number (2020)
9
12
15
18
21
24
27
30
33
36
39
42
45
Cases (%)
0
20
40
60
80
100
Susceptibles (Noninfected)
Exposed (Incubation Time)
Infected
Hospitalized (ARDS)
Recovered
Deaths
Confirmed Cases (Total Infected)
0
50
100
150
200
250
Days after 3/1/20
Created by Sören Thiering (09/08/2020). Email: soeren.thiering@hs−anhalt.de



Created by Sören Thiering (09/08/2020). Email: soeren.thiering@hs−anhalt.de



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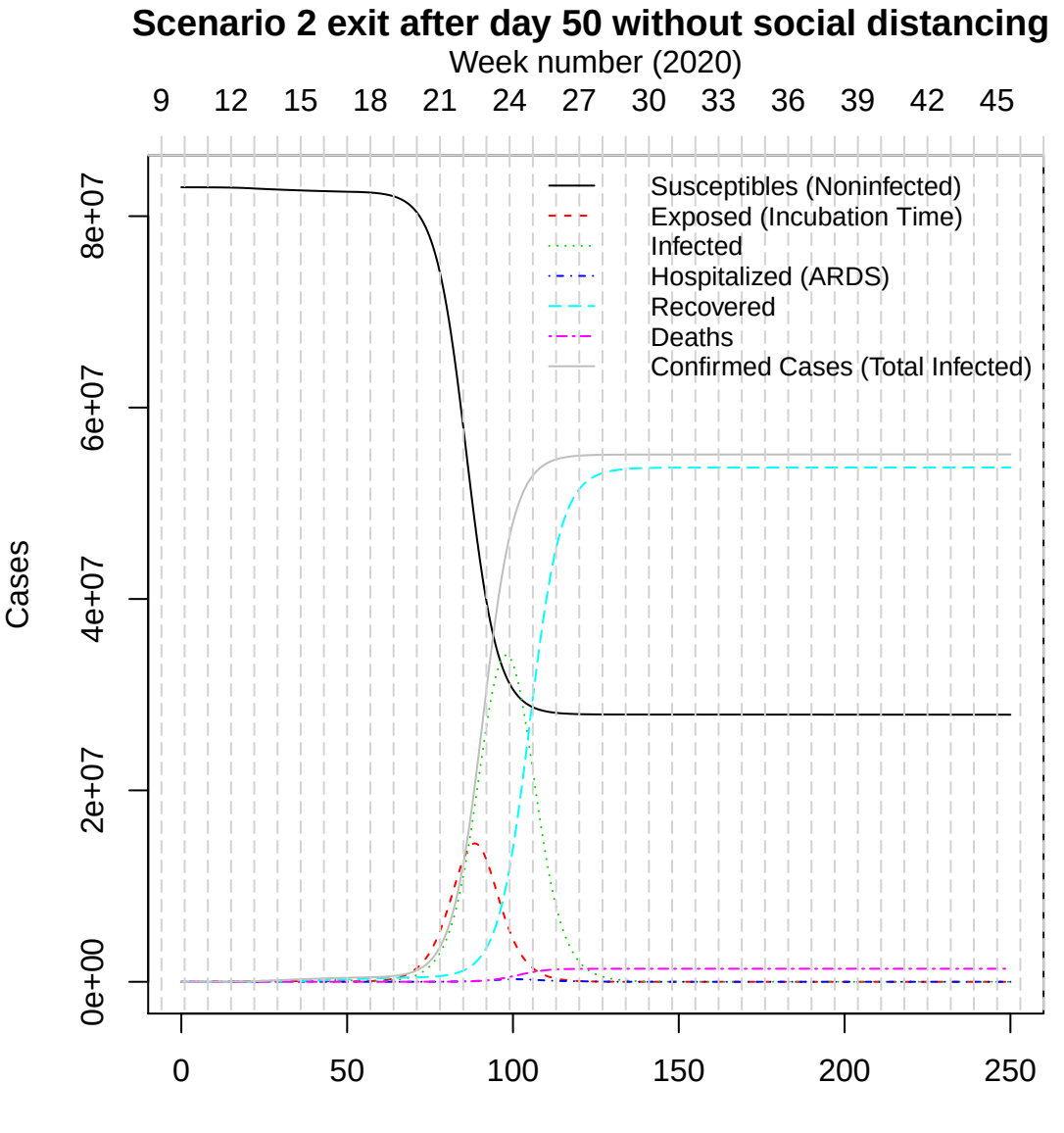
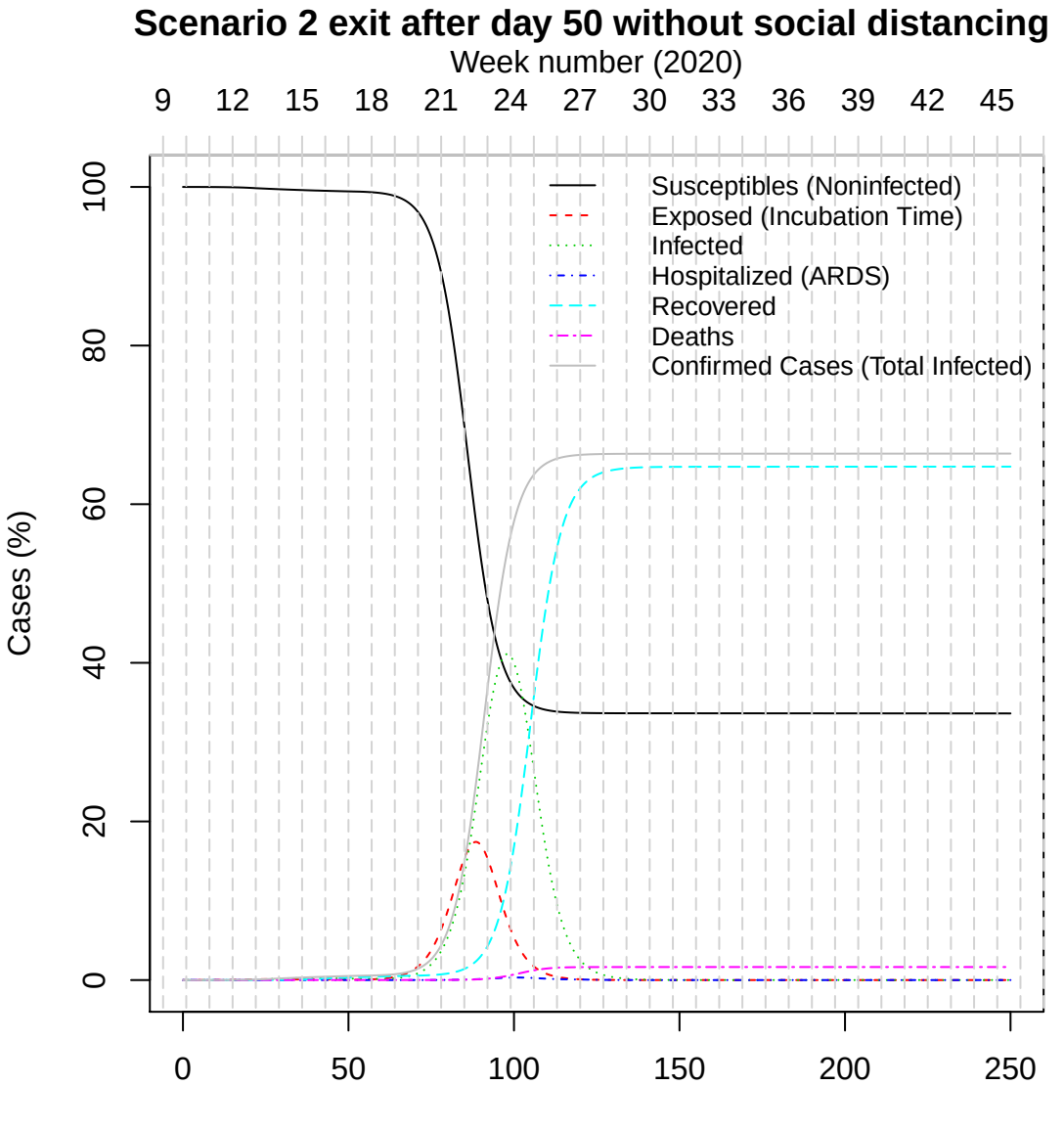
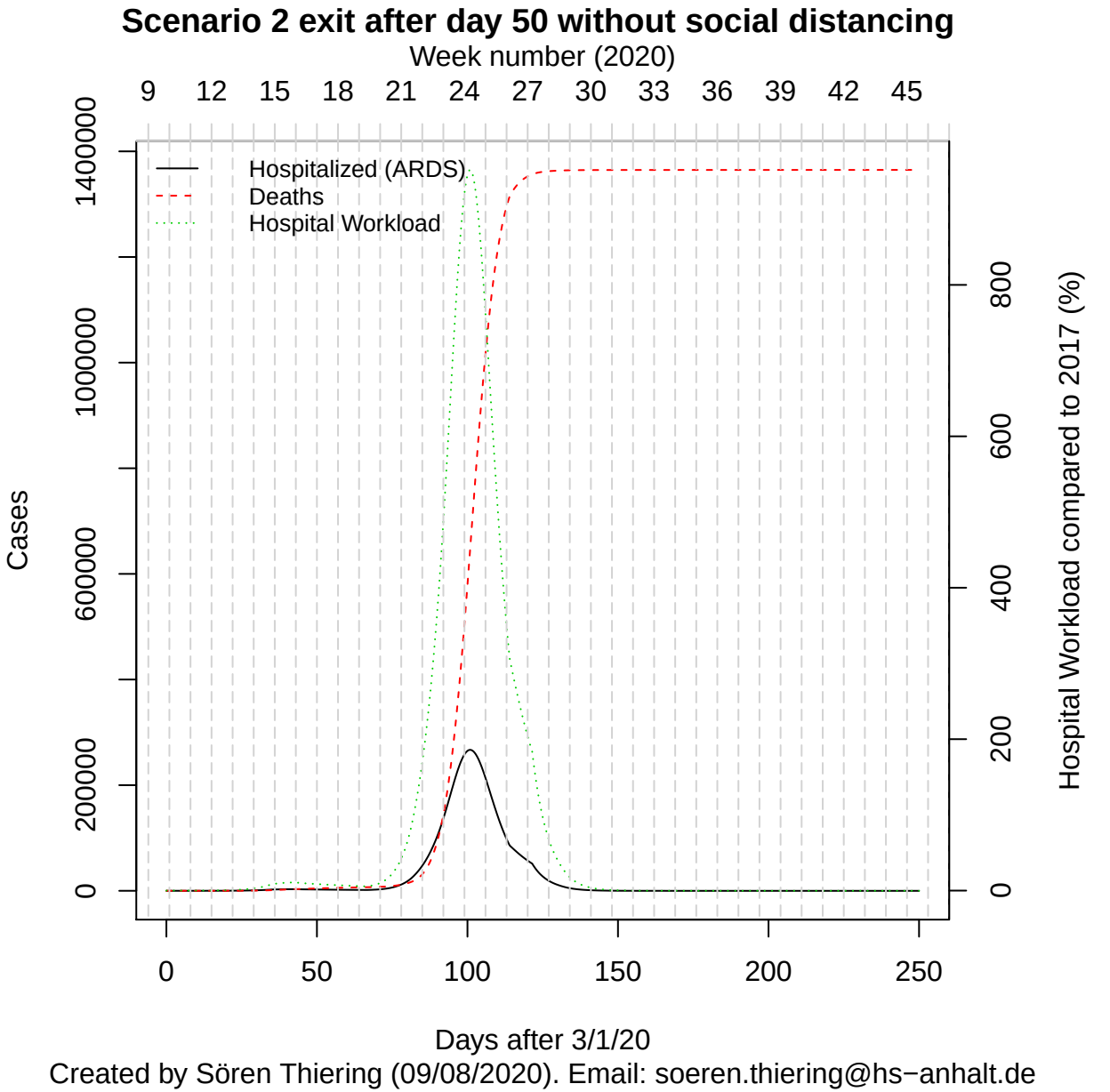
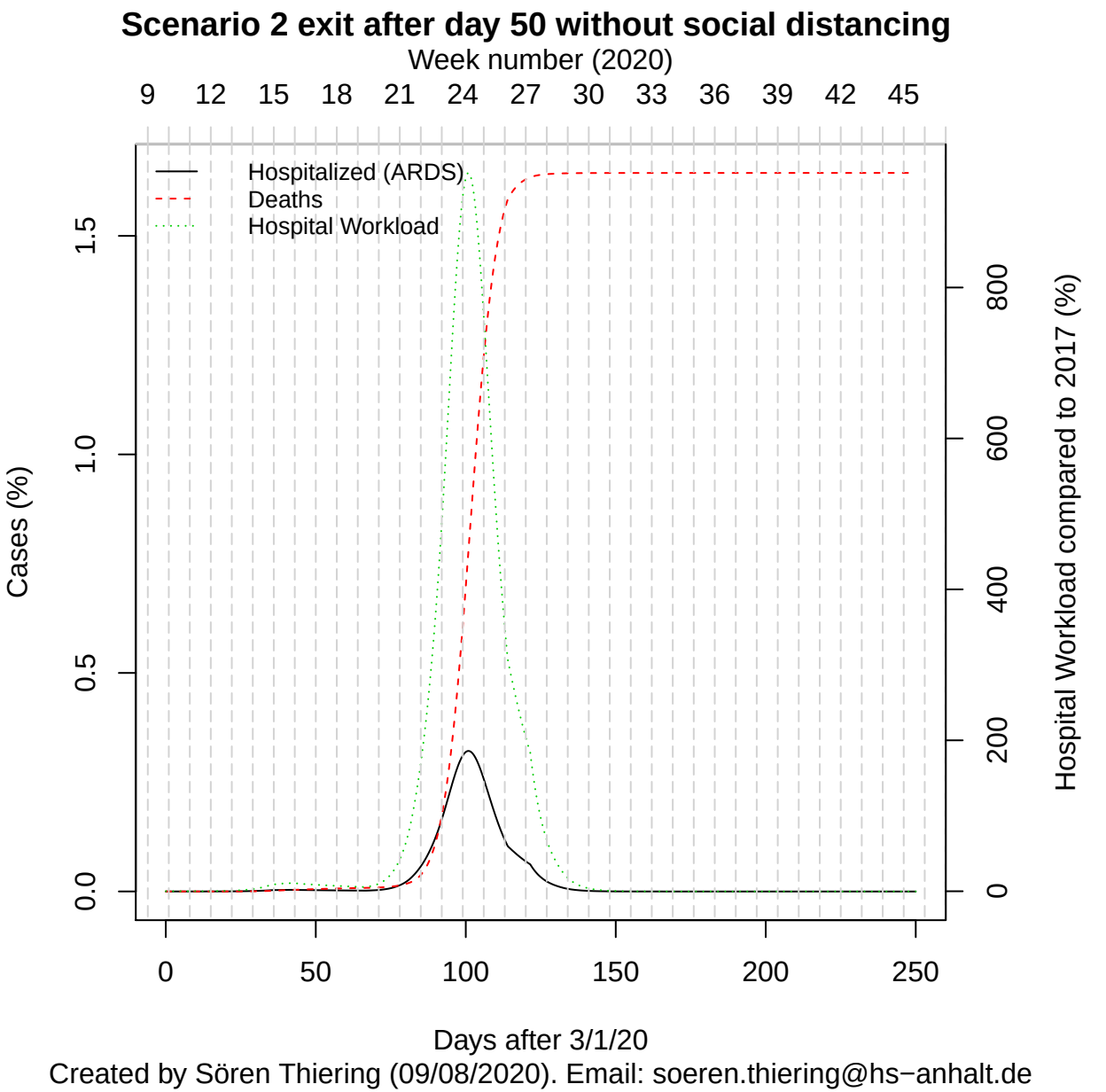
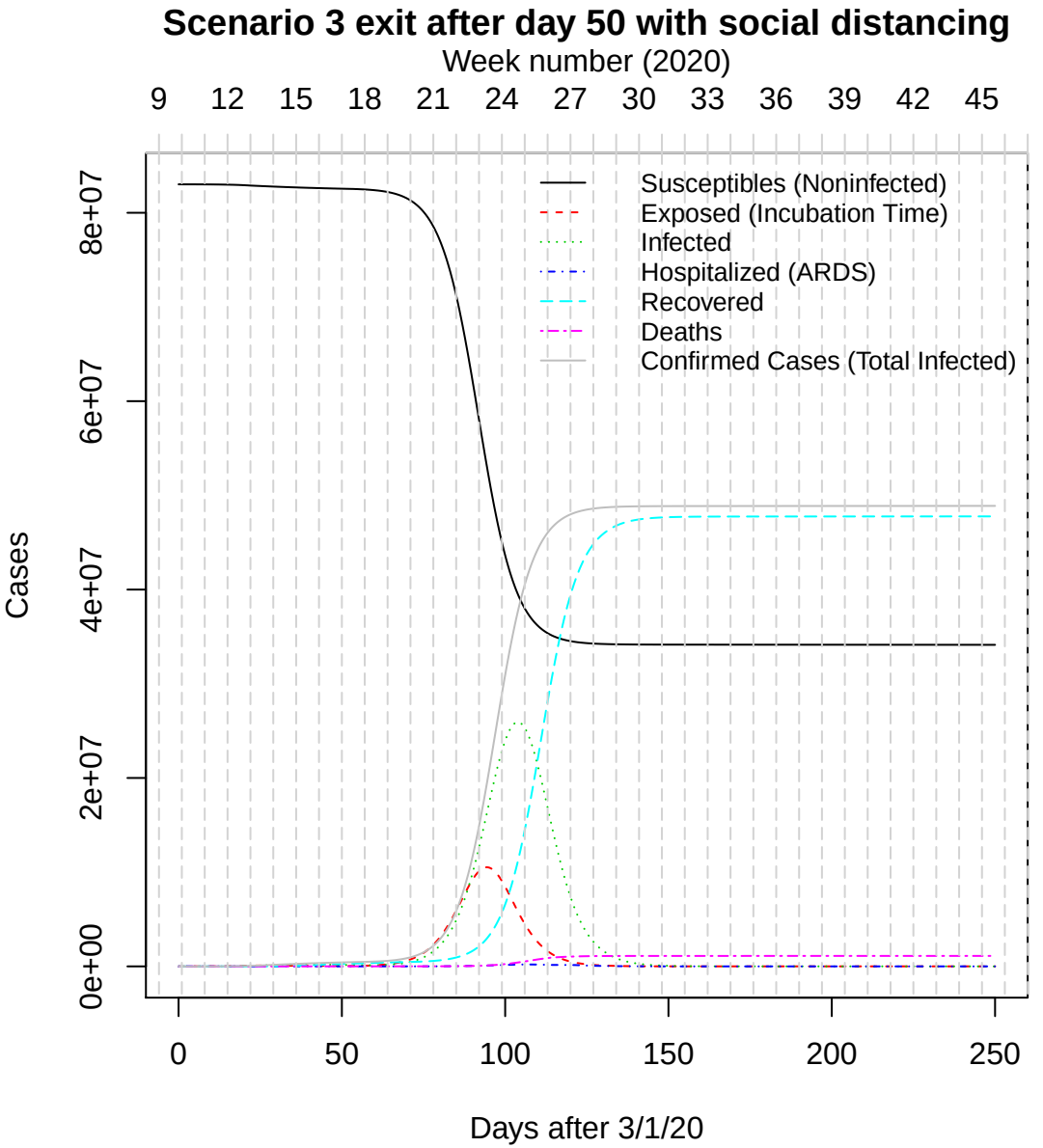


Created by Sören Thiering (09/08/2020). Email: soeren.thiering@hs−anhalt.de


Scenario 2 exit after day 50 without social distancing
Week number (2020)
9
12
15
18
21
24
27
30
33
36
39
42
45
Cases (%)
0
20
40
60
80
100
Susceptibles (Noninfected)
Exposed (Incubation Time)
Infected
Hospitalized (ARDS)
Recovered
Deaths
Confirmed Cases (Total Infected)
0
50
100
150
200
250
Days after 3/1/20
Created by Sören Thiering (09/08/2020). Email: soeren.thiering@hs−anhalt.de


Scenario 2 exit after day 50 without social distancing
Week number (2020)
9
12
15
18
21
24
27
30
33
36
39
42
45
Hospitalized (ARDS)
Deaths
Hospital Workload
Cases
0
200000
600000
1000000
1400000
Hospital Workload compared to 2017 (%)
0
200
400
600
800
0
50
100
150
200
250
Days after 3/1/20
Created by Sören Thiering (09/08/2020). Email: soeren.thiering@hs−anhalt.de


Scenario 2 exit after day 50 without social distancing
Week number (2020)
9
12
15
18
21
24
27
30
33
36
39
42
45
Hospitalized (ARDS)
Deaths
Hospital Workload
Cases (%)
0.0
0.5
1.0
1.5
Hospital Workload compared to 2017 (%)
0
200
400
600
800
0
50
100
150
200
250
Days after 3/1/20
Created by Sören Thiering (09/08/2020). Email: soeren.thiering@hs−anhalt.de



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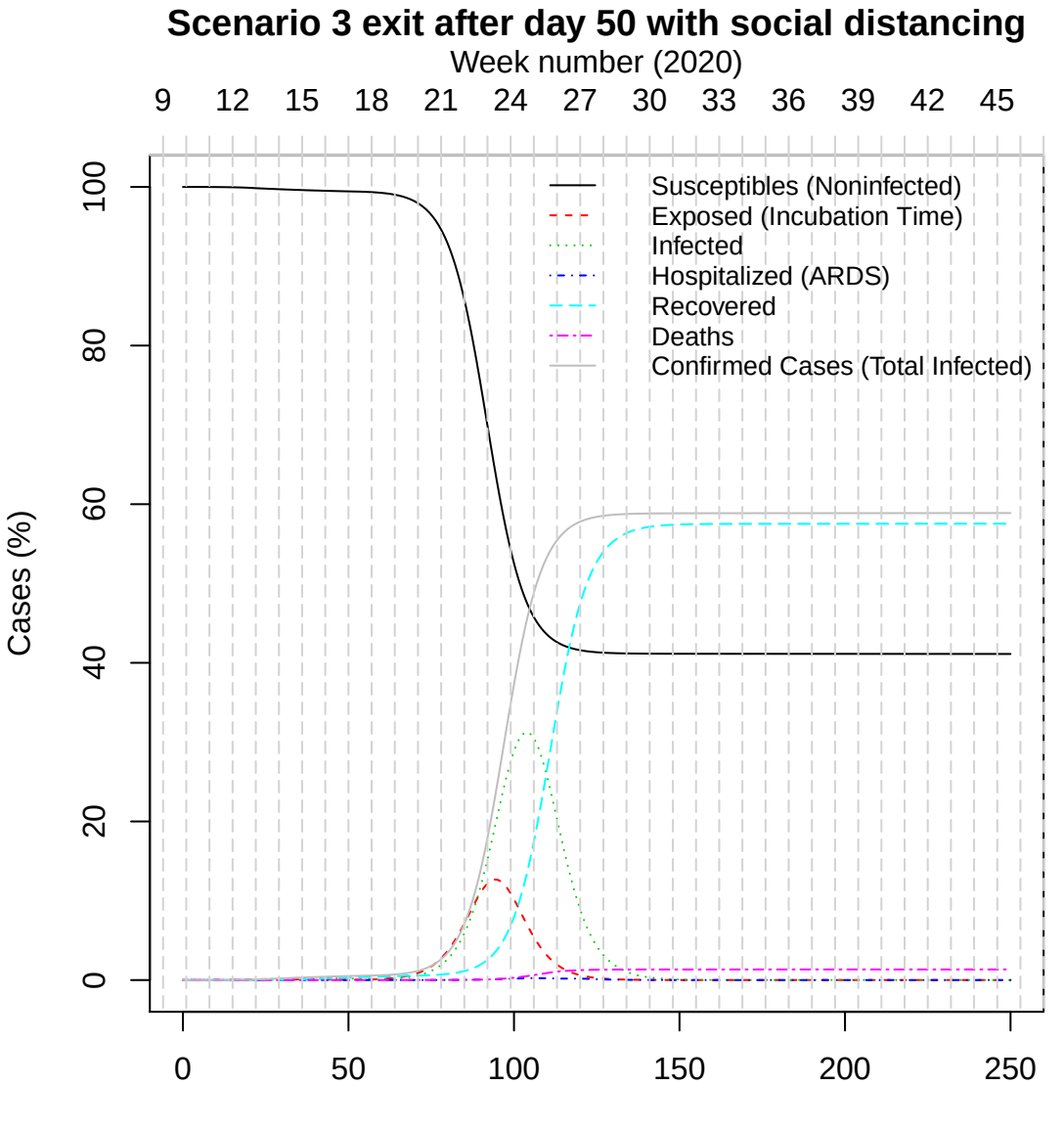
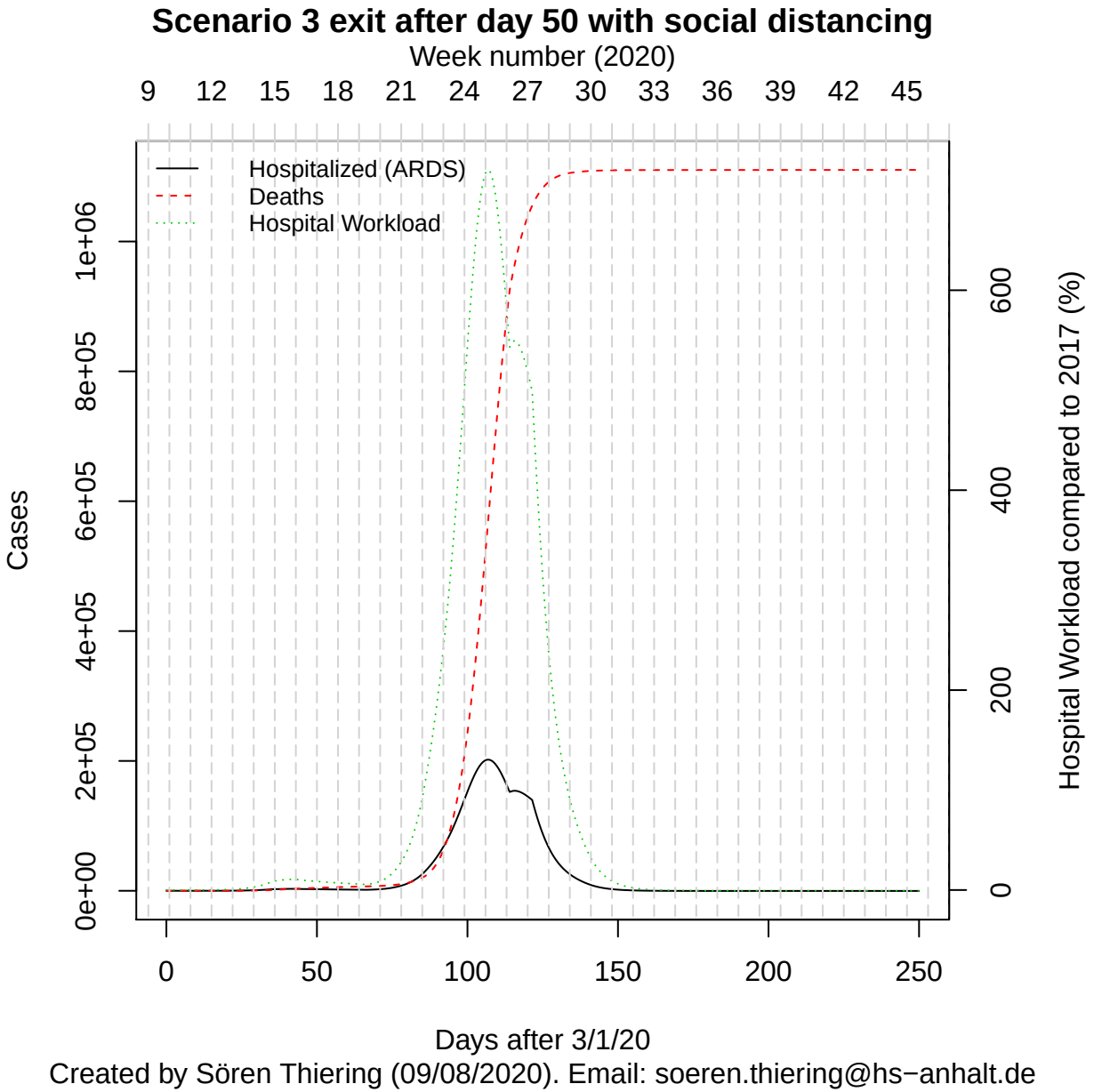
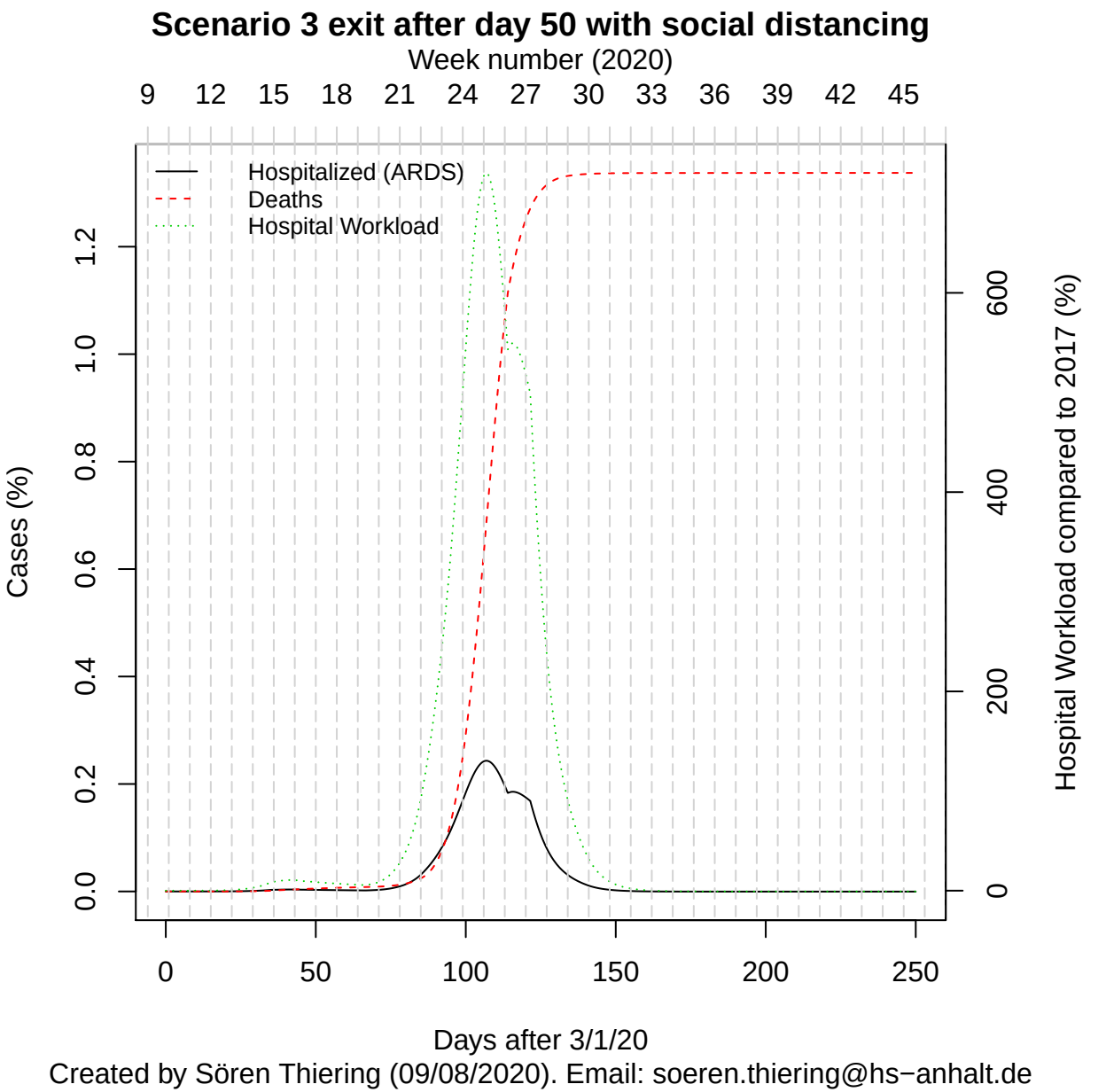
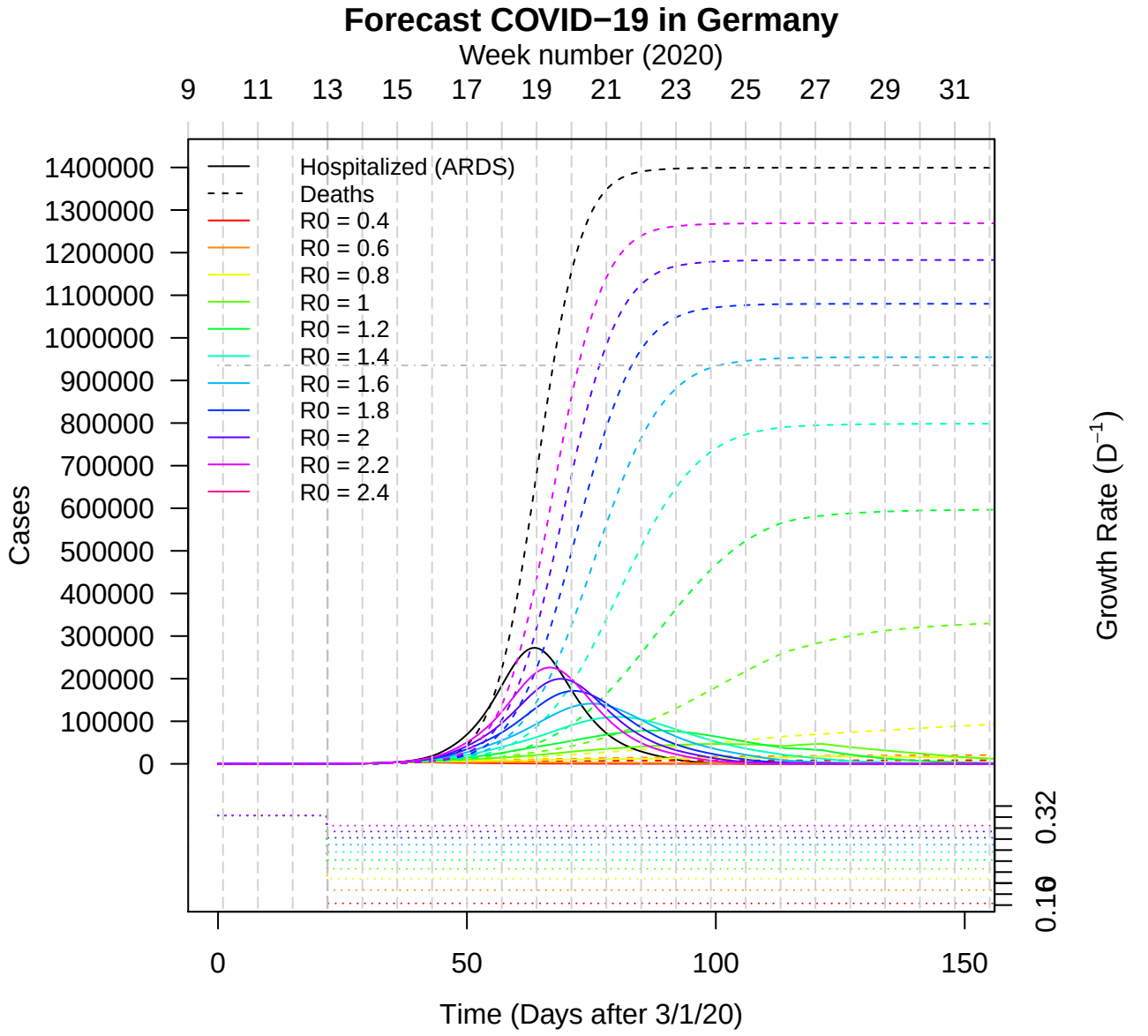

Scenario 3 exit after day 50 with social distancing
Week number (2020)
9
12
15
18
21
24
27
30
33
36
39
42
45
Susceptibles (Noninfected)
Exposed (Incubation Time)
Infected
Hospitalized (ARDS)
Recovered
Deaths
Confirmed Cases (Total Infected)
Cases (%)
0
20
40
60
80
100
0
50
100
150
200
250
Days after 3/1/20
Created by Sören Thiering (09/08/2020). Email: soeren.thiering@hs−anhalt.de



Created by Sören Thiering (09/08/2020). Email: soeren.thiering@hs−anhalt.de



Created by Sören Thiering (09/08/2020). Email: soeren.thiering@hs−anhalt.de



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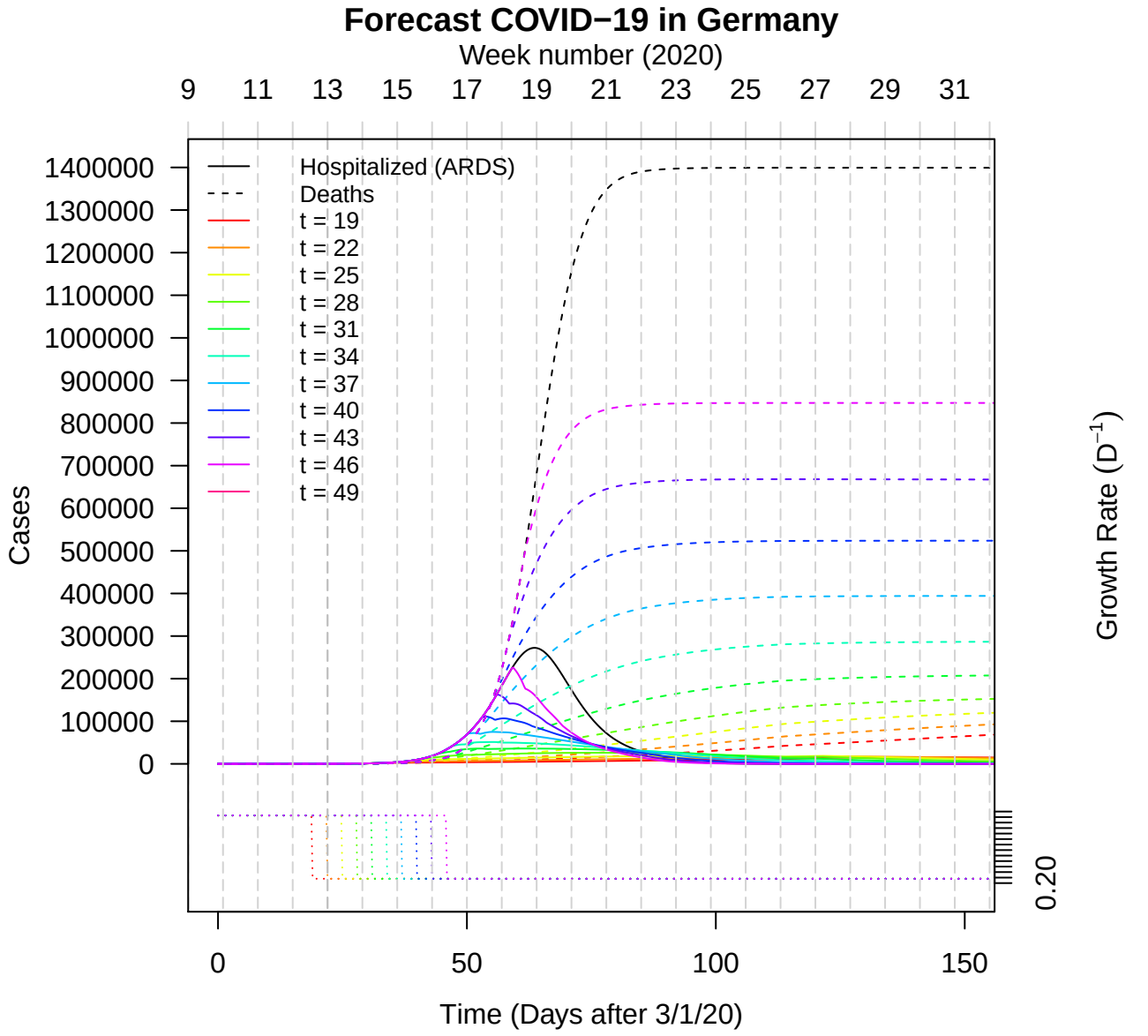

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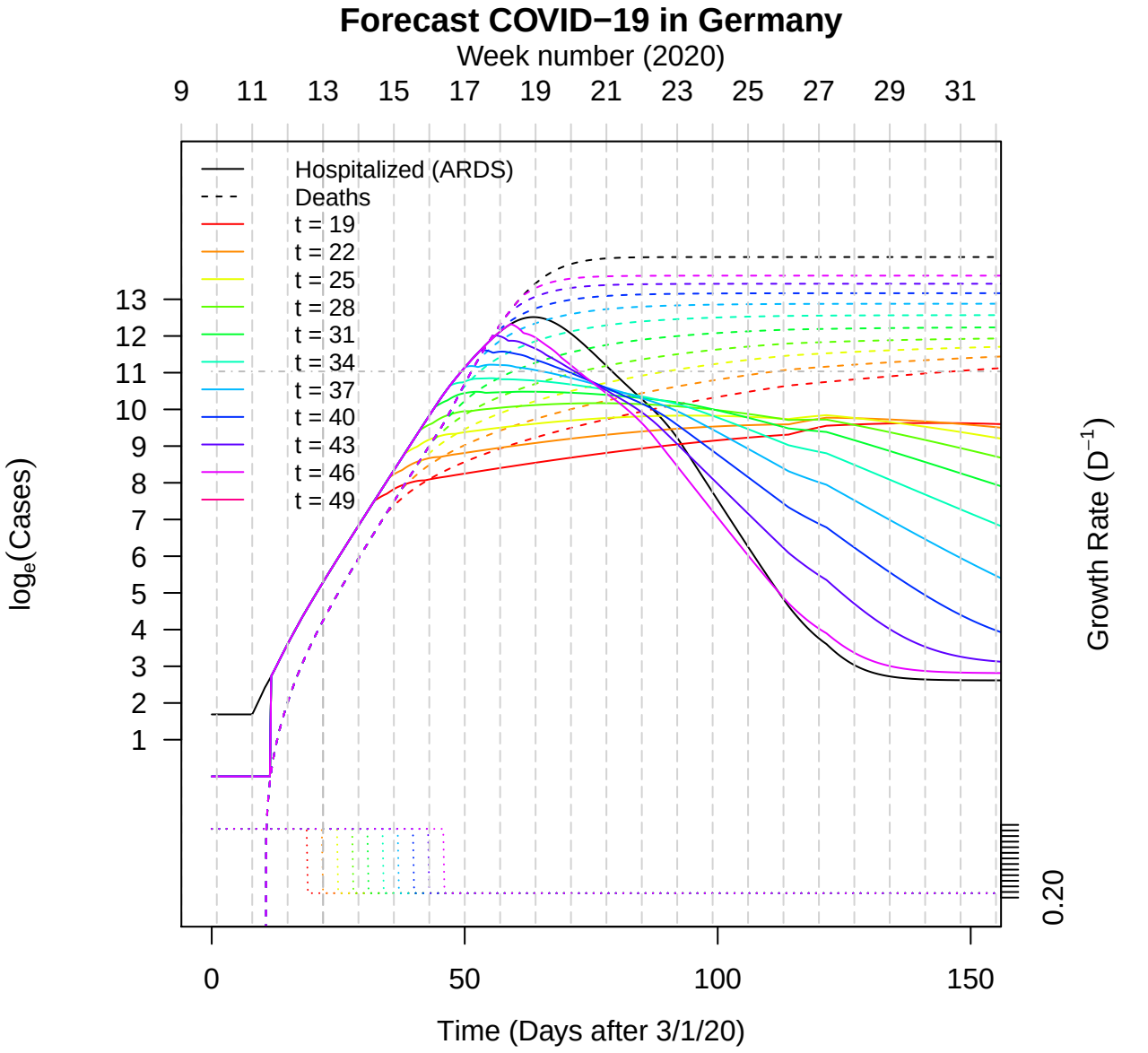

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