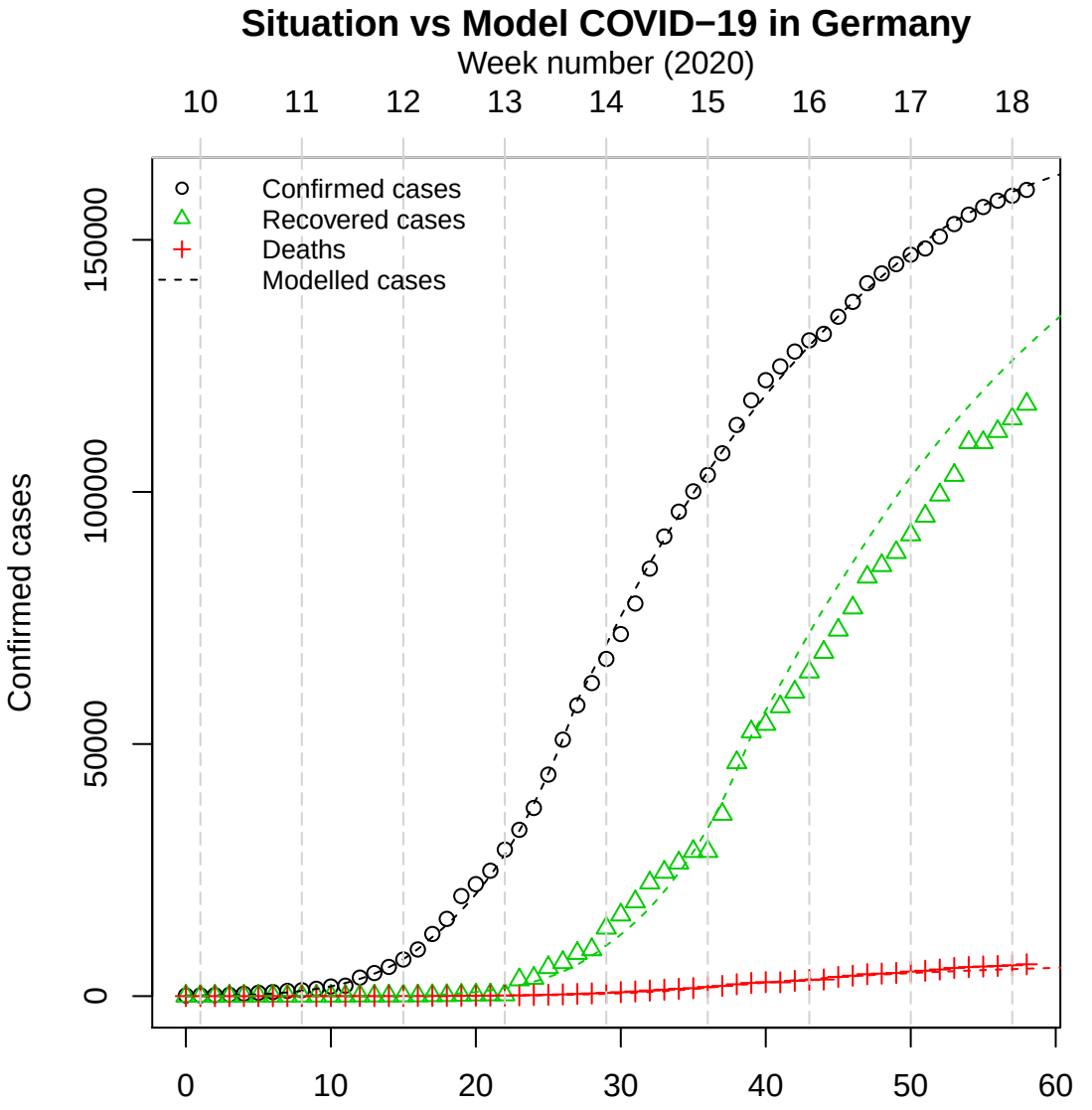

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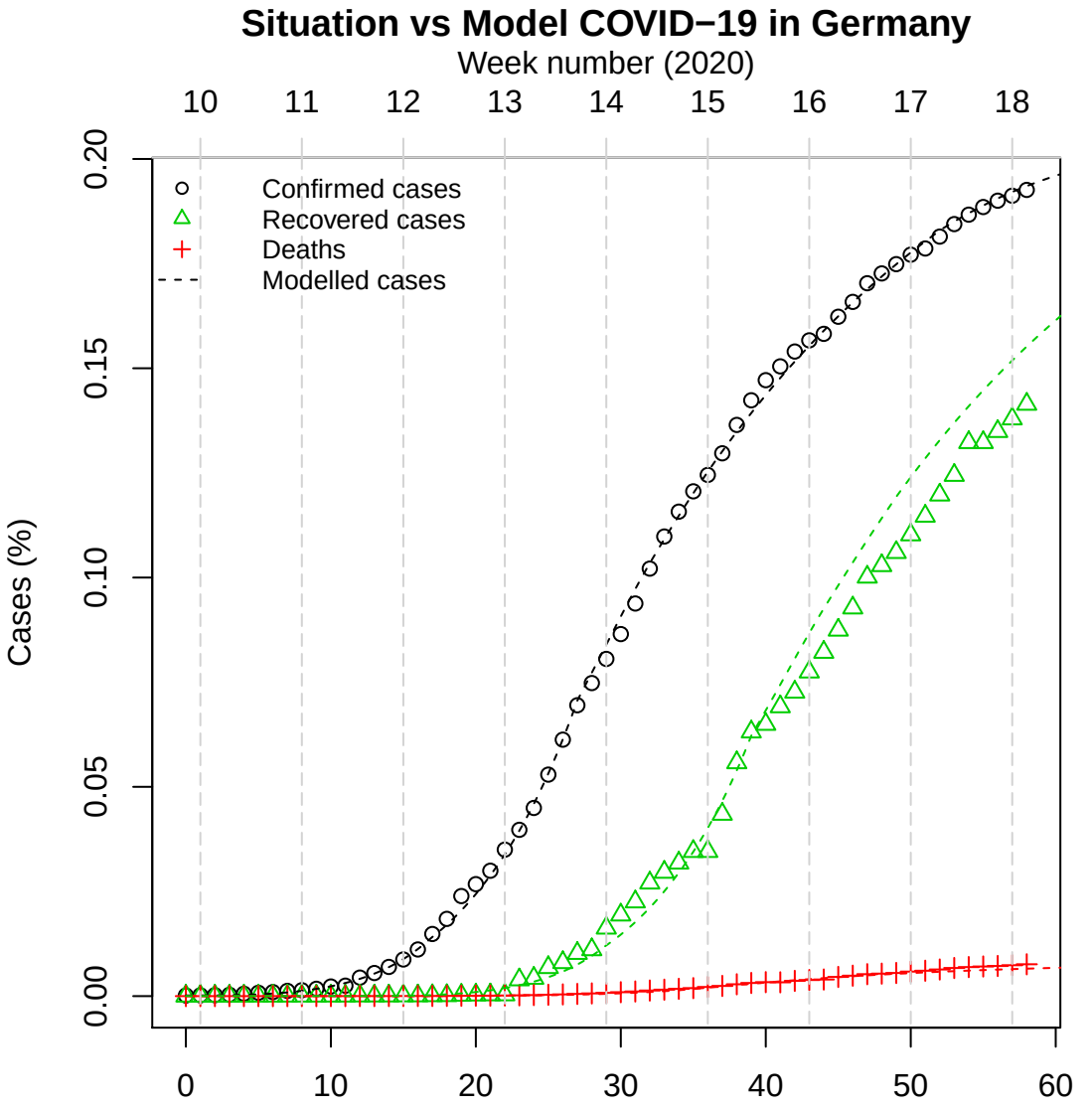

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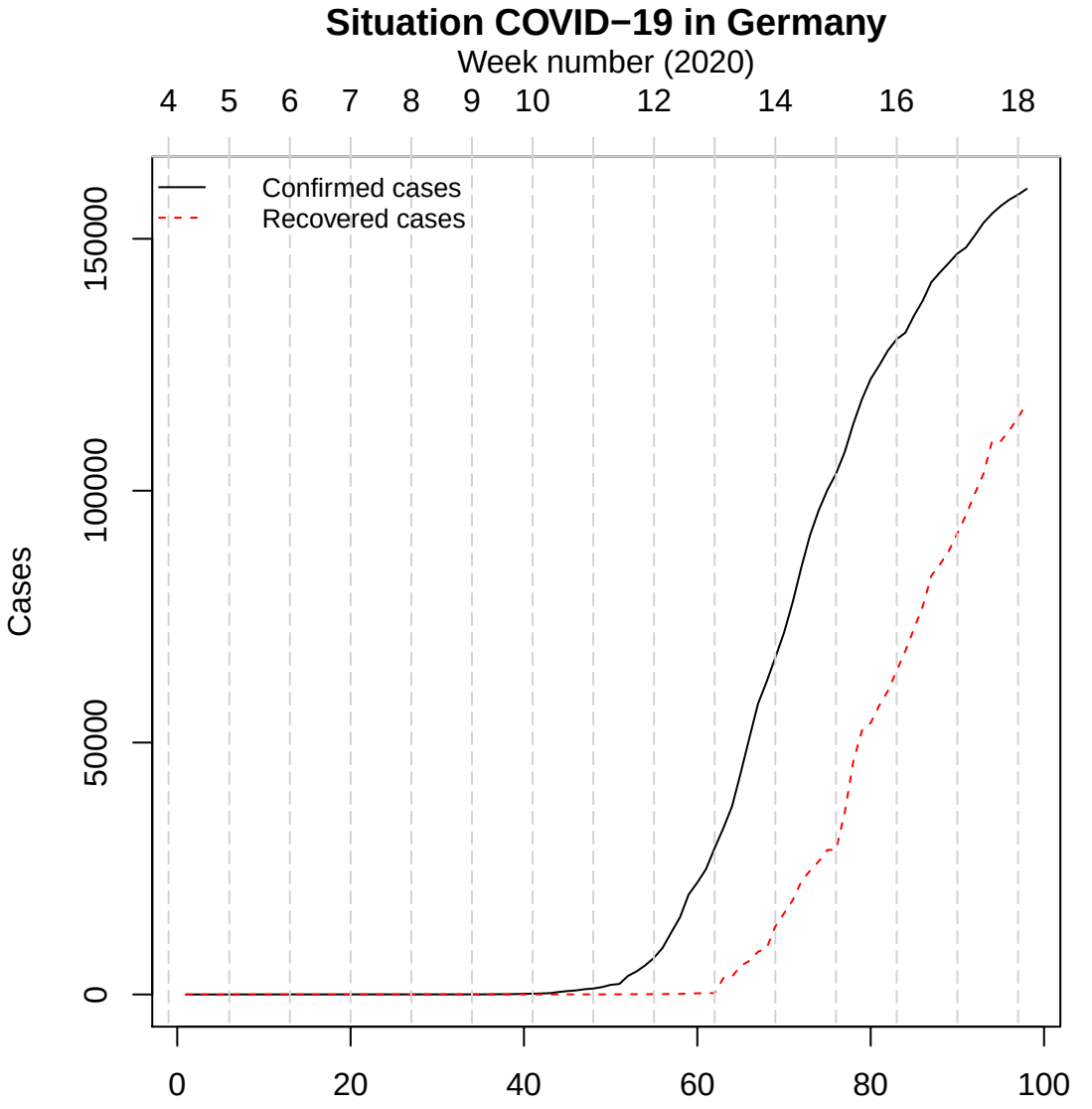

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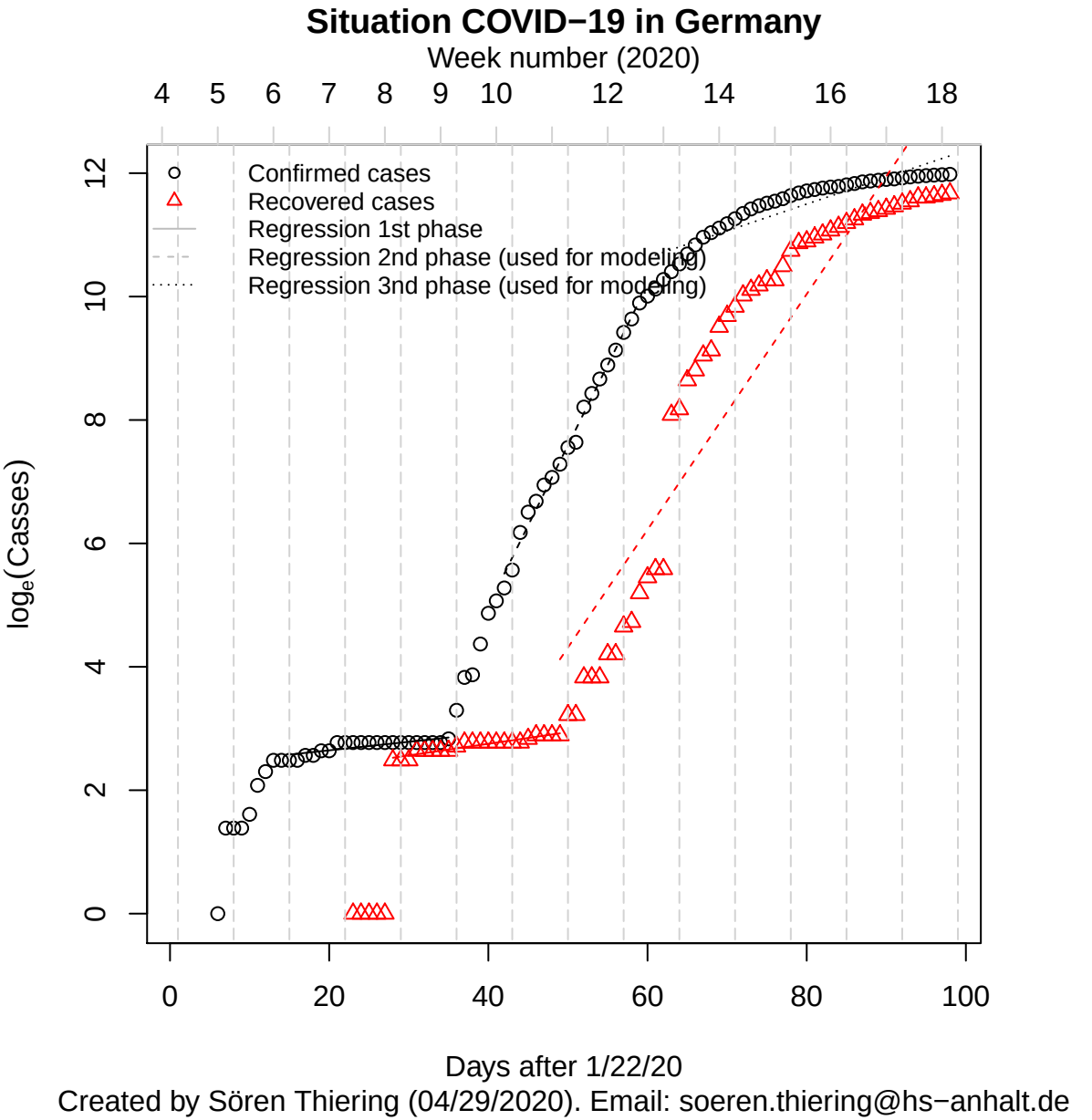
Situation COVID−19 in Germany
Week number (2020)
4
5
6
7
8
9
10
12
14
16
18
Confirmed cases
Recovered cases
Regression 1st phase
Regression 2nd phase (used for modeling)
Regression 3nd phase (used for modeling)
log_e(Casses)
0
2
4
6
8
10
12
0
20
40
60
80
100
Days after 1/22/20
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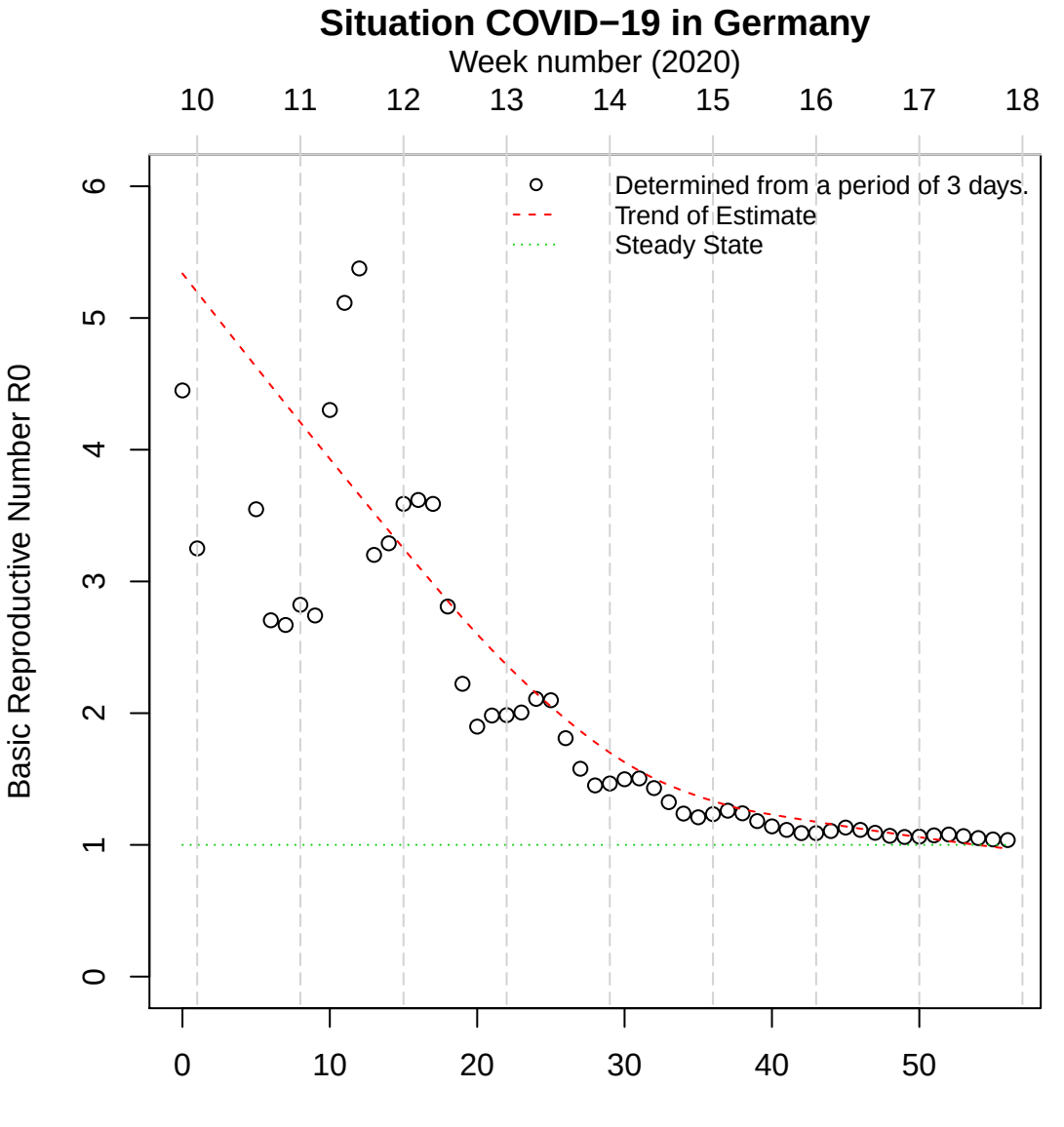

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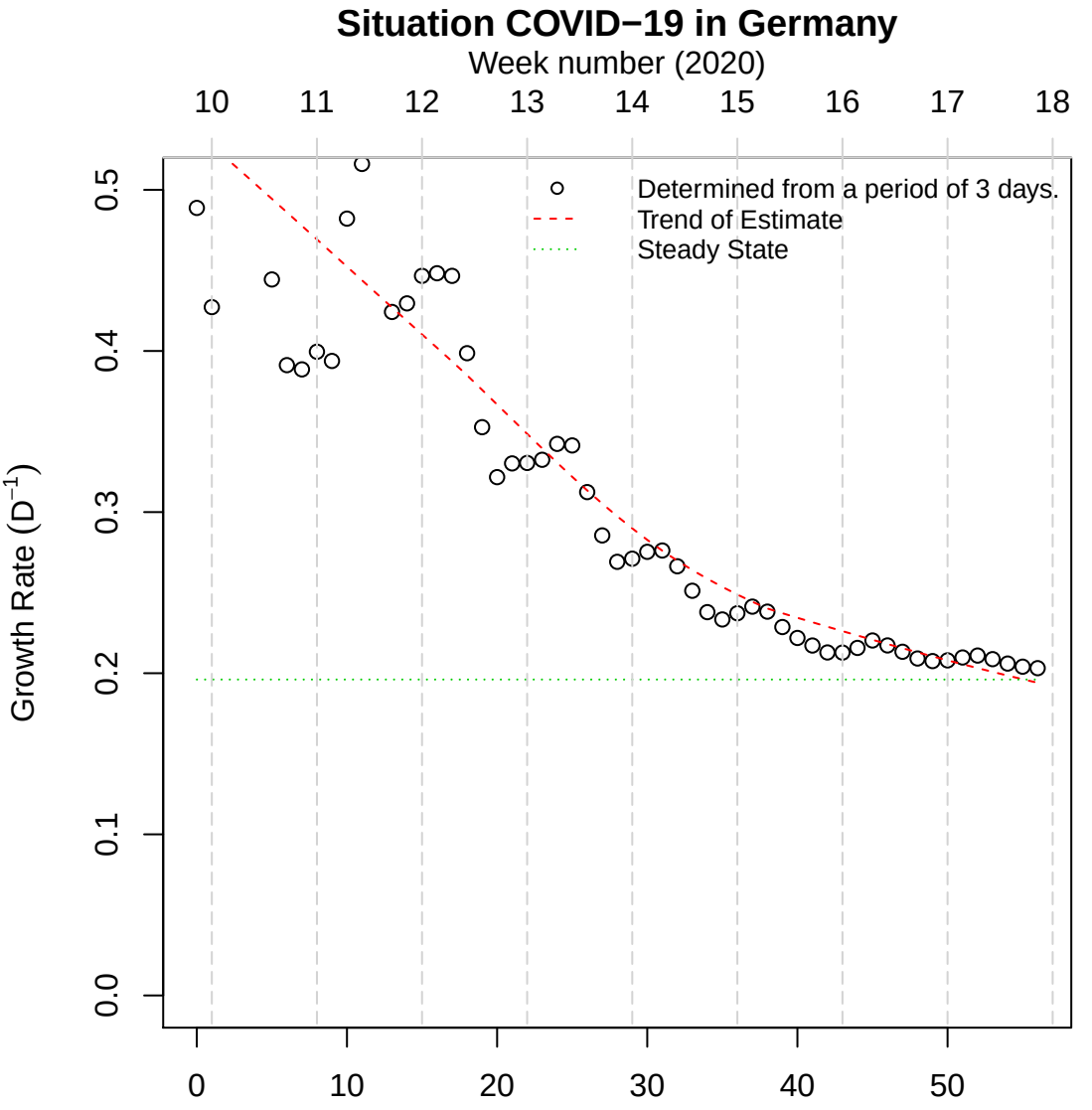

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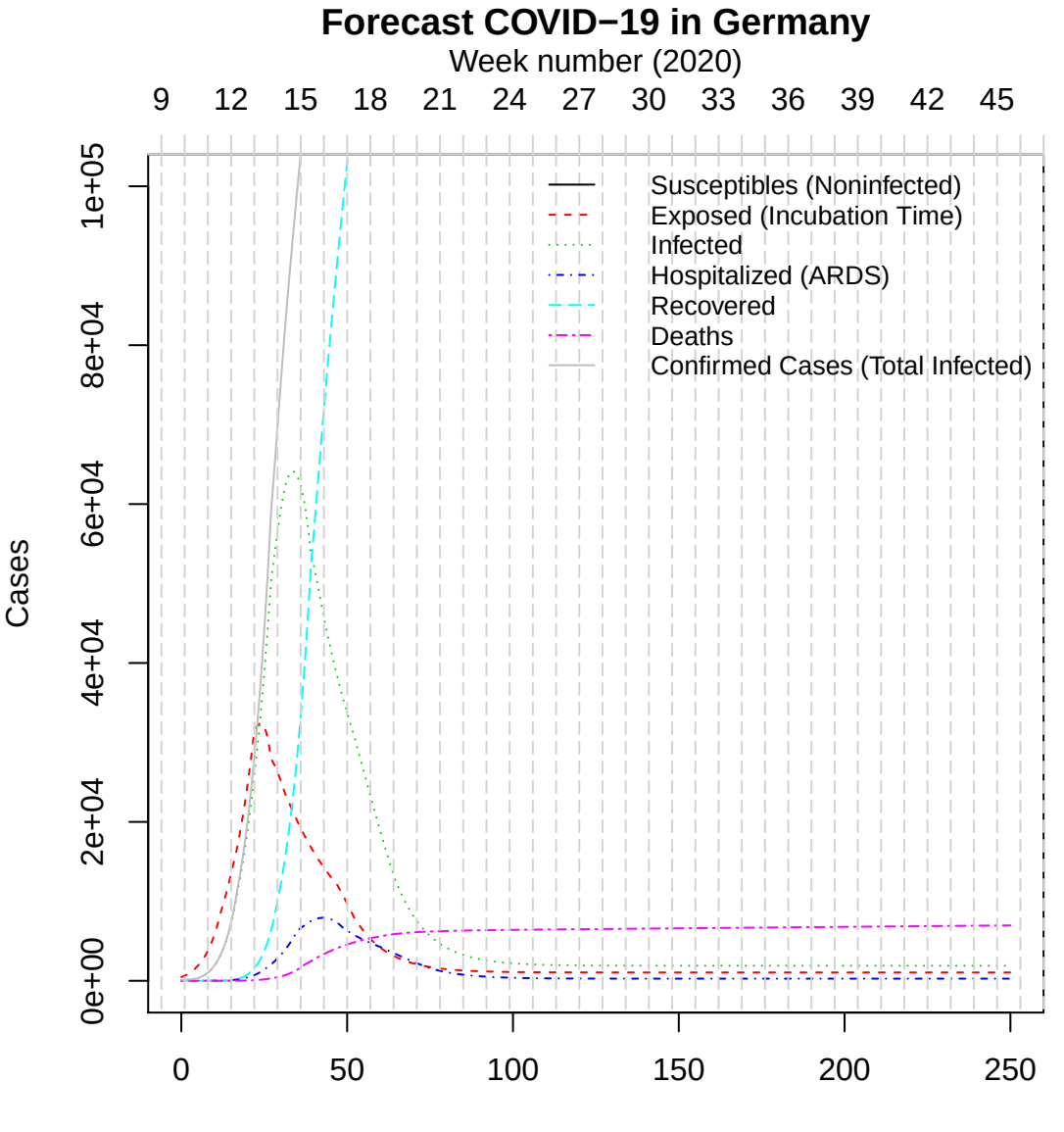

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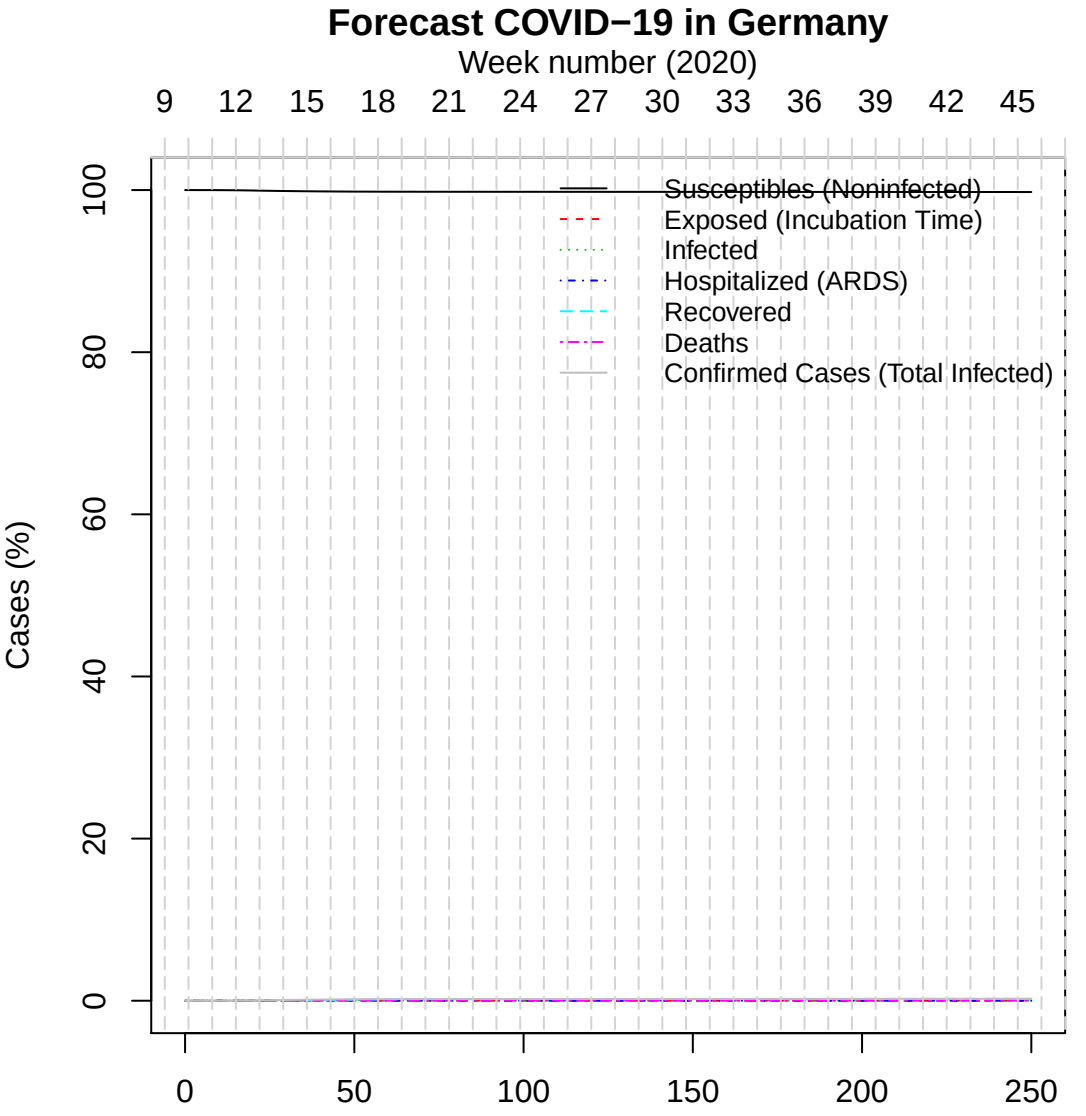

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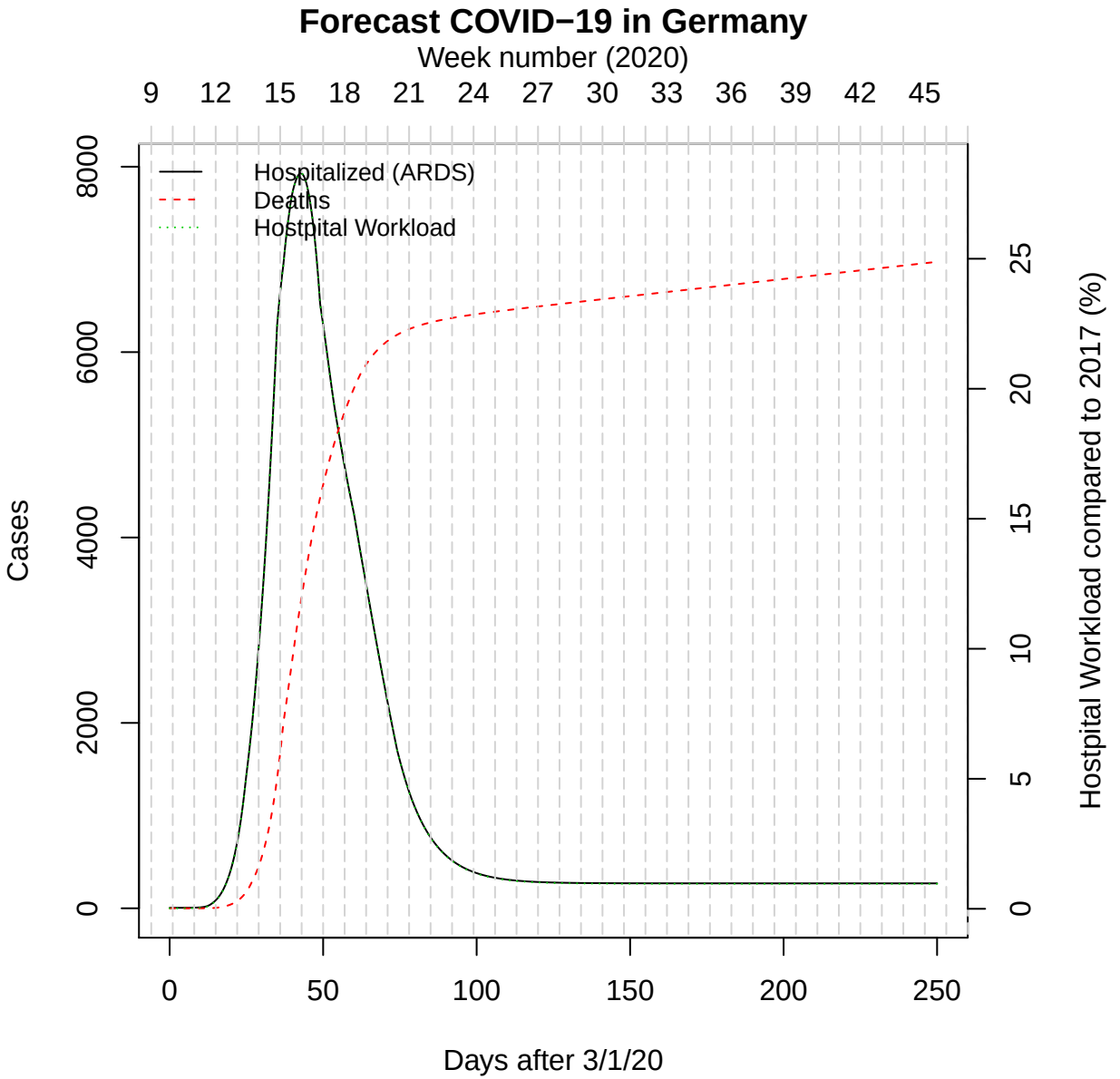
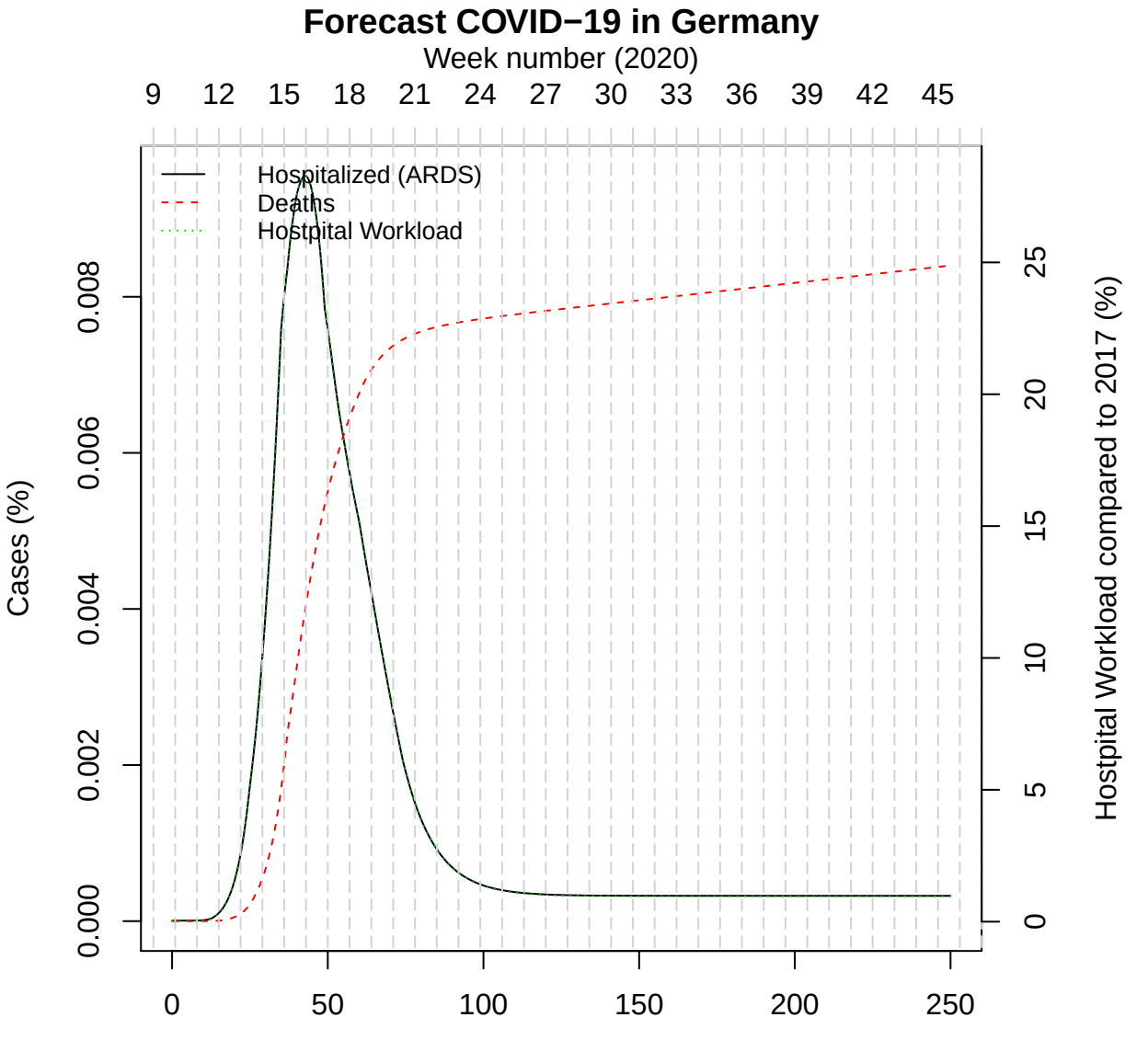

Forecast COVID−19 in Germany
Week number (2020)
9
12
15
18
21
24
27
30
33
36
39
42
45
Hospitalized (ARDS)
Deaths
Hostpital Workload
Cases
0
2000
4000
6000
8000
Hostpital Workload compared to 2017 (%)
0
5
10
15
20
25
0
50
100
150
200
250
Days after 3/1/20
Created by Sören Thiering (04/29/2020). Email: soeren.thiering@hs−anhalt.de



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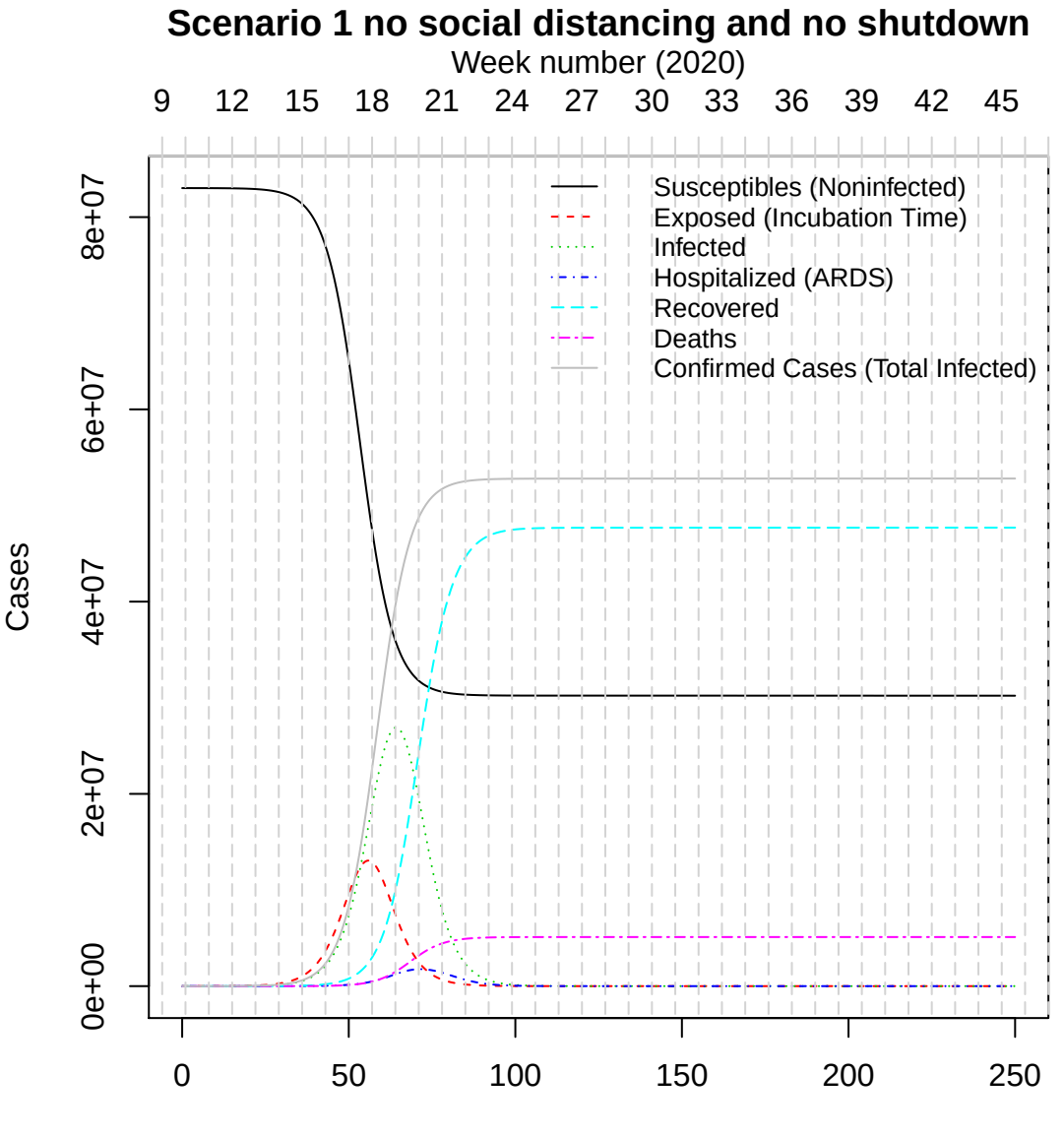
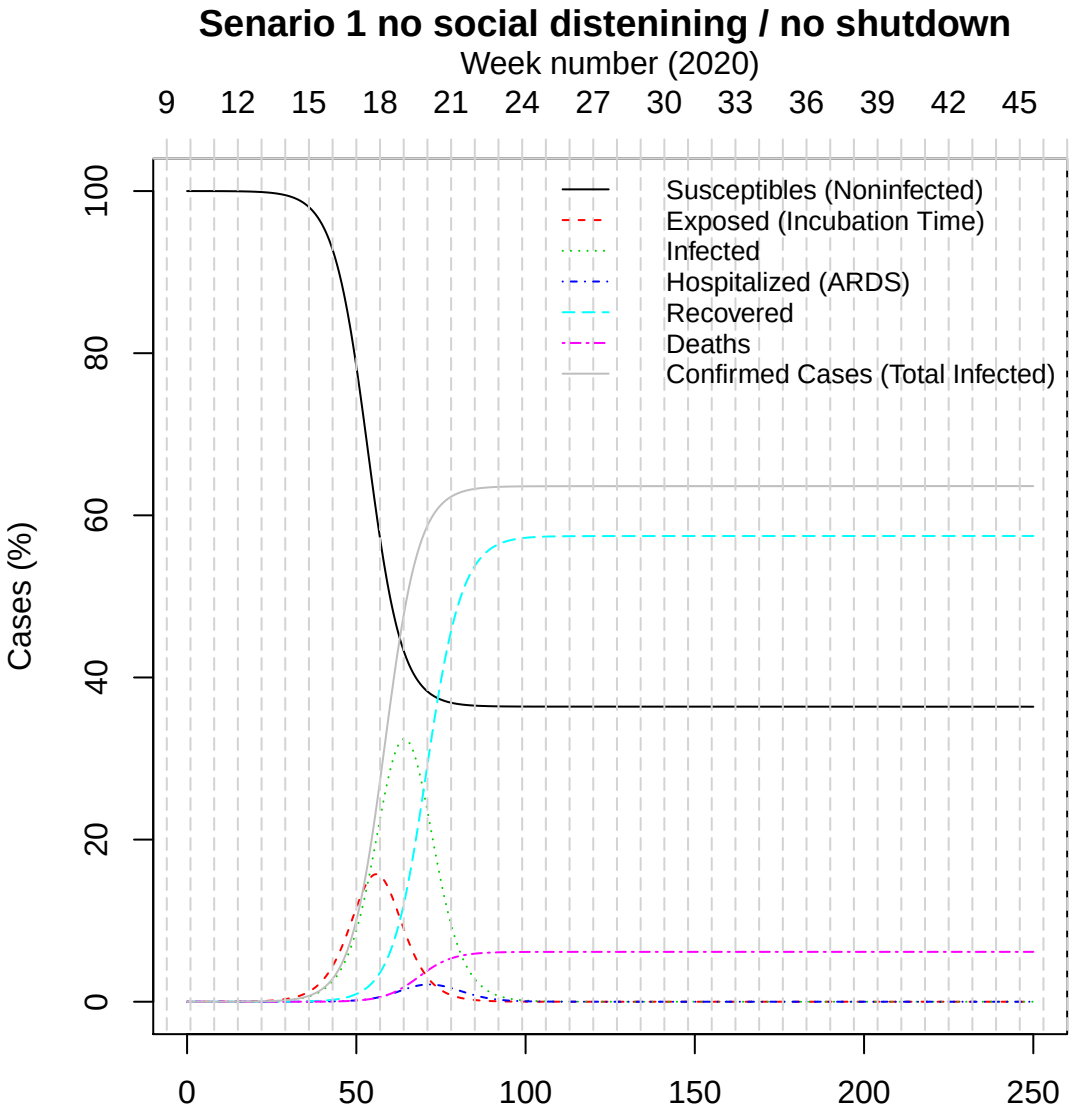
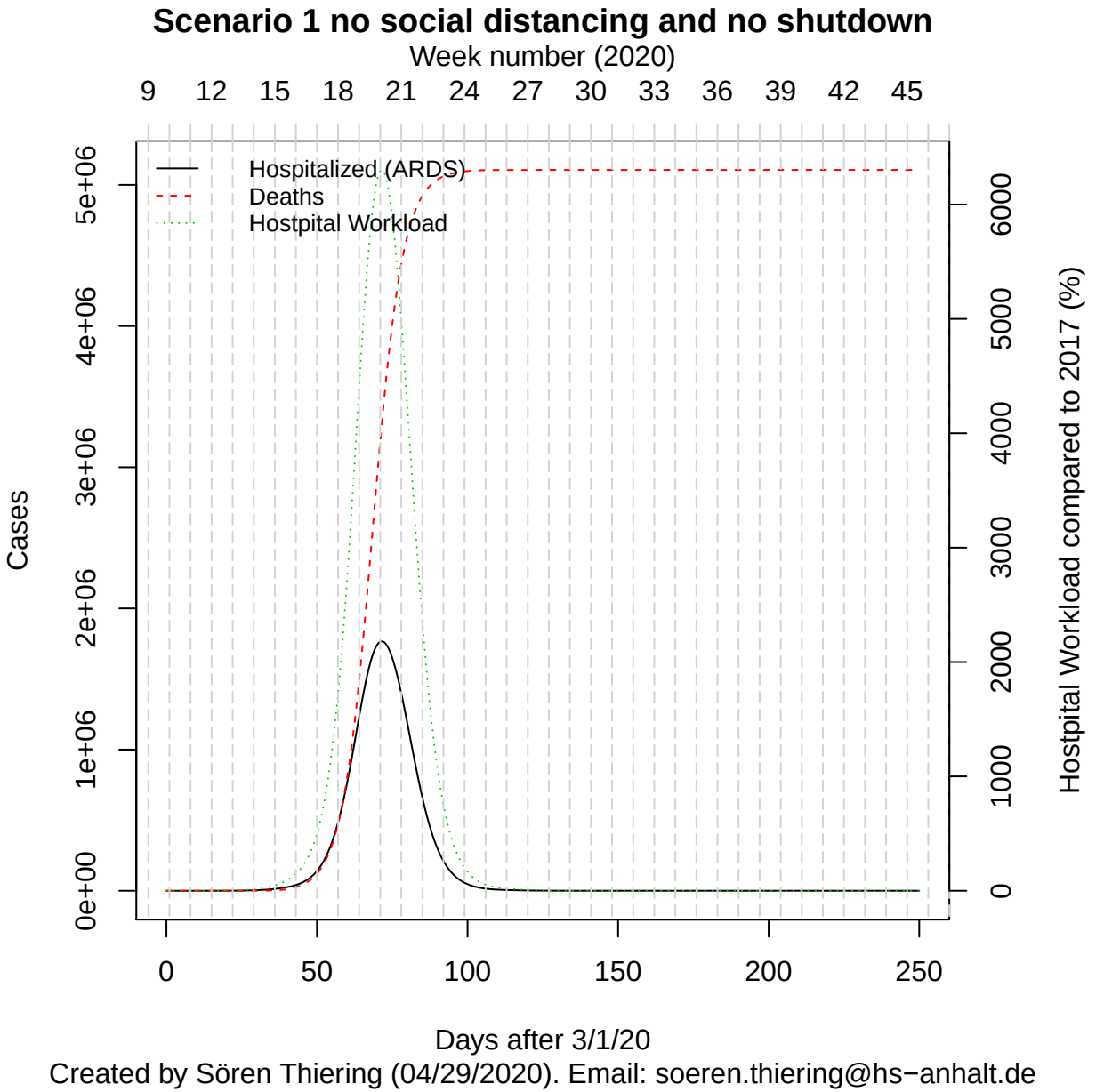
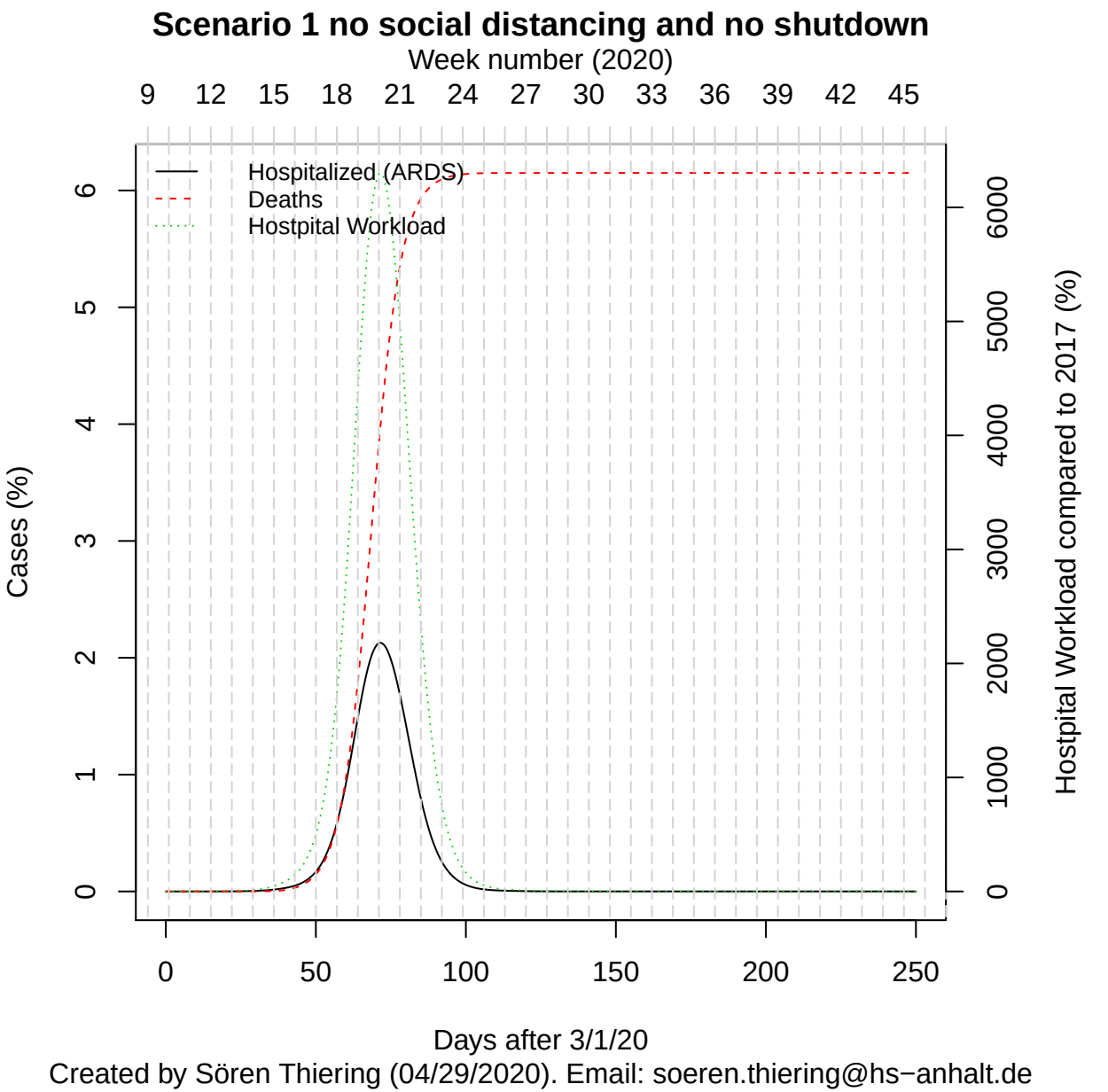

Scenario 1 no social distancing and no shutdown
Week number (2020)
9
12
15
18
21
24
27
30
33
36
39
42
45
Susceptibles (Noninfected)
Exposed (Incubation Time)
Infected
Hospitalized (ARDS)
Recovered
Deaths
Confirmed Cases (Total Infected)
Cases
0e+00
2e+07
4e+07
6e+07
8e+07
0
50
100
150
200
250
Days after 3/1/20
Created by Sören Thiering (04/29/2020). Email: soeren.thiering@hs−anhalt.de



Created by Sören Thiering (04/29/2020). Email: soeren.thiering@hs−anhalt.de


Scenario 1 no social distancing and no shutdown
Week number (2020)
9
12
15
18
21
24
27
30
33
36
39
42
45
Hospitalized (ARDS)
Deaths
Hostpital Workload
Cases
0e+00
1e+06
2e+06
3e+06
4e+06
5e+06
Hostpital Workload compared to 2017 (%)
0
1000
2000
3000
4000
5000
6000
0
50
100
150
200
250
Days after 3/1/20
Created by Sören Thiering (04/29/2020). Email: soeren.thiering@hs−anhalt.de



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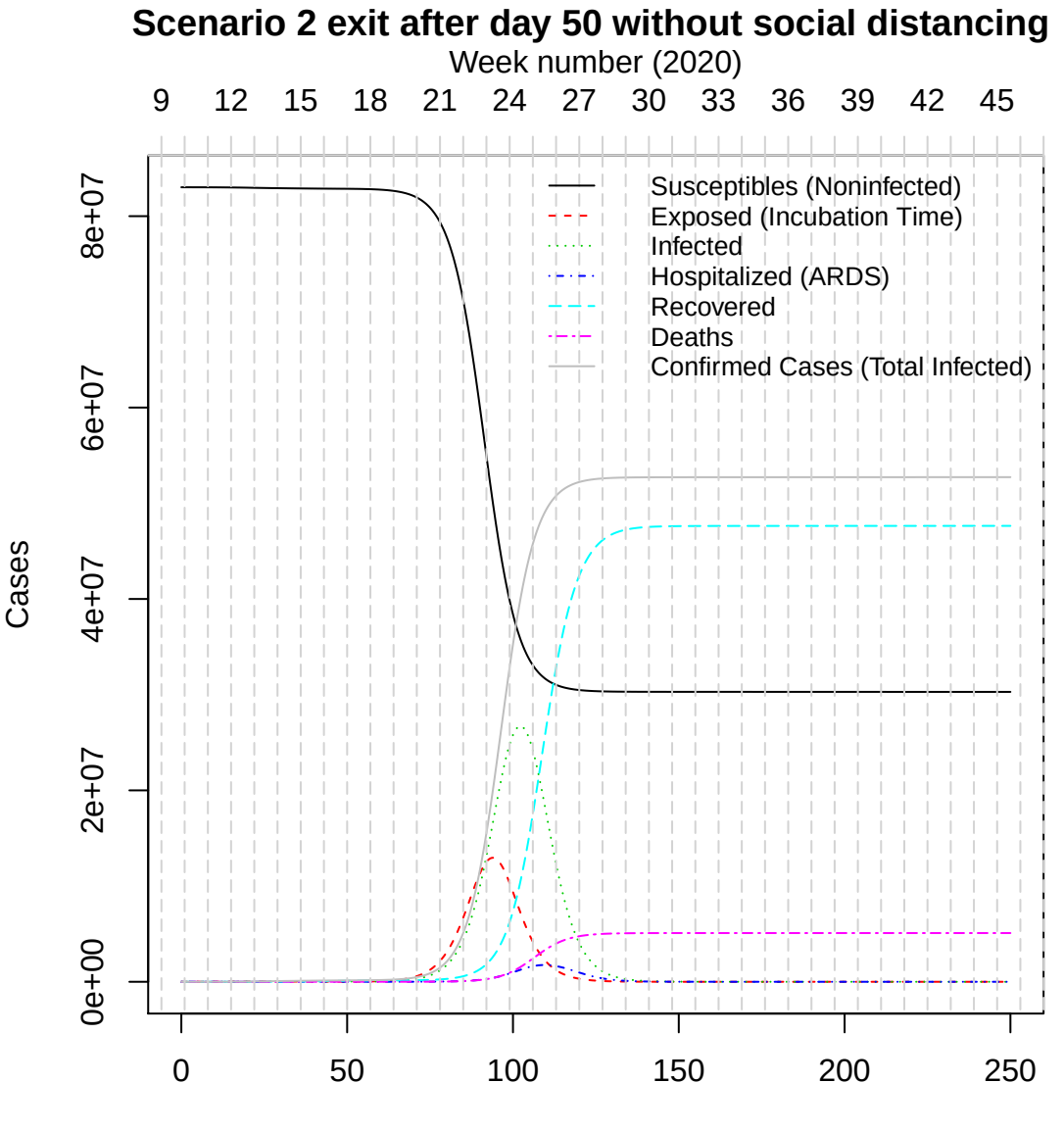

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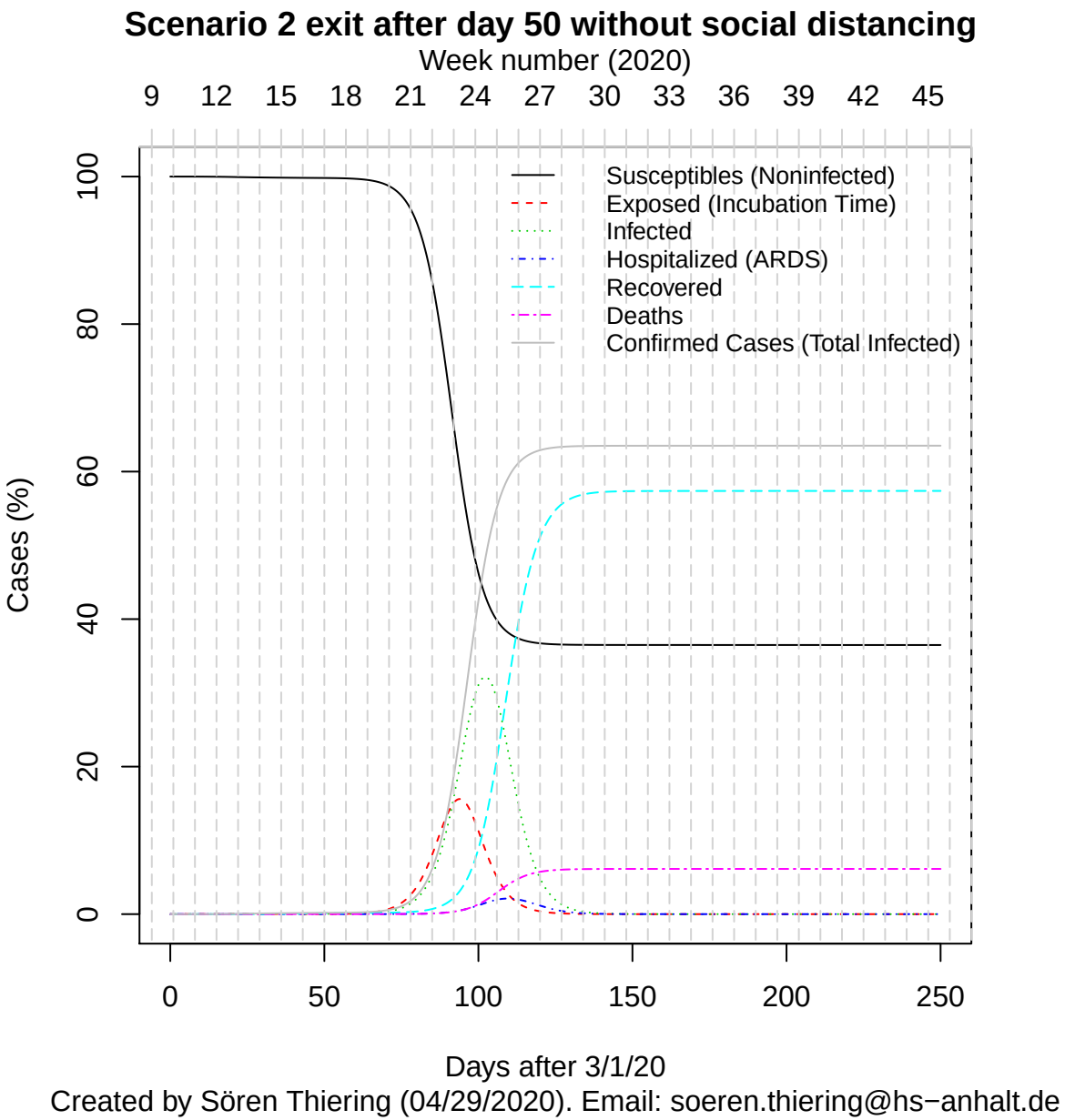
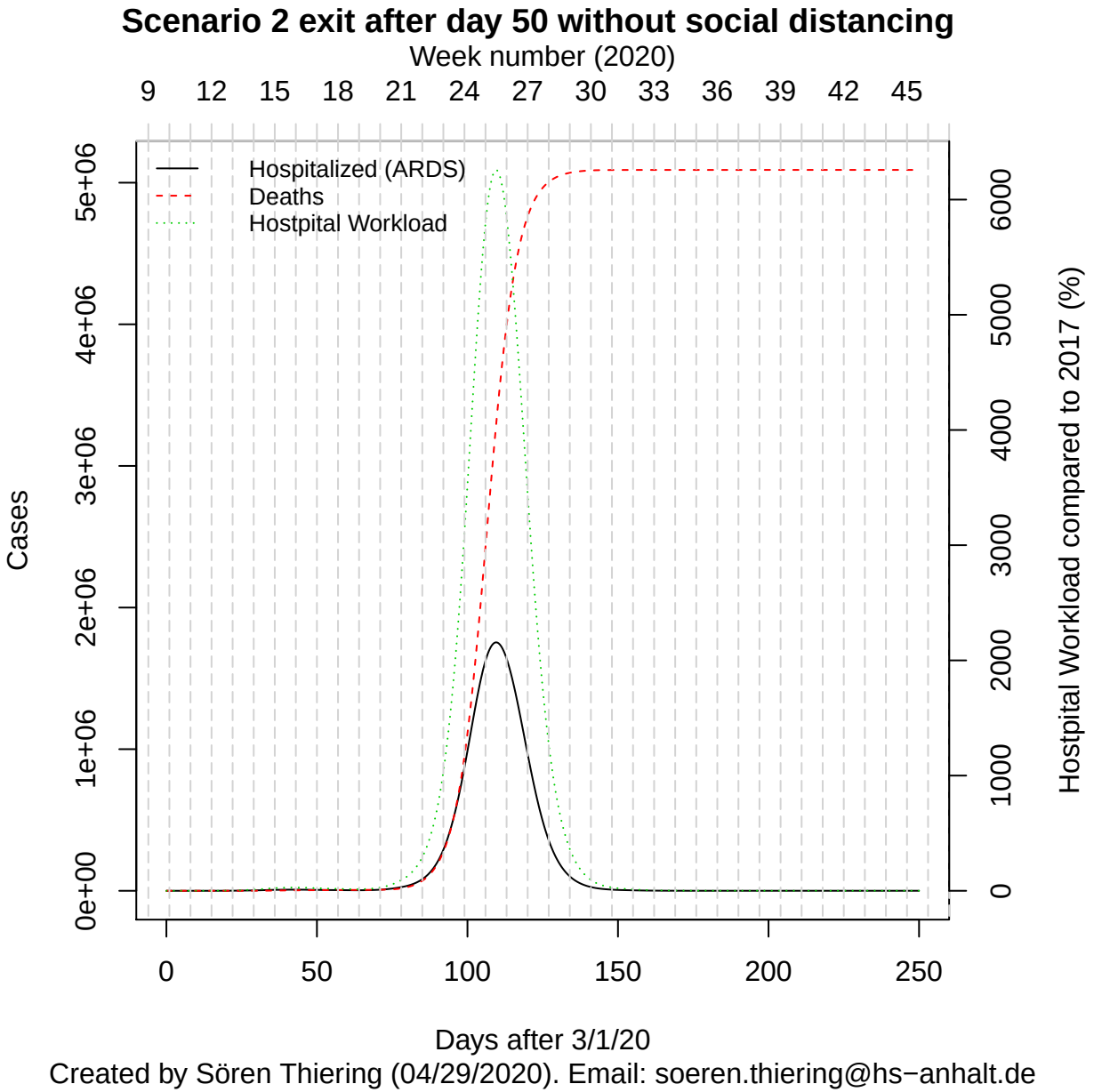
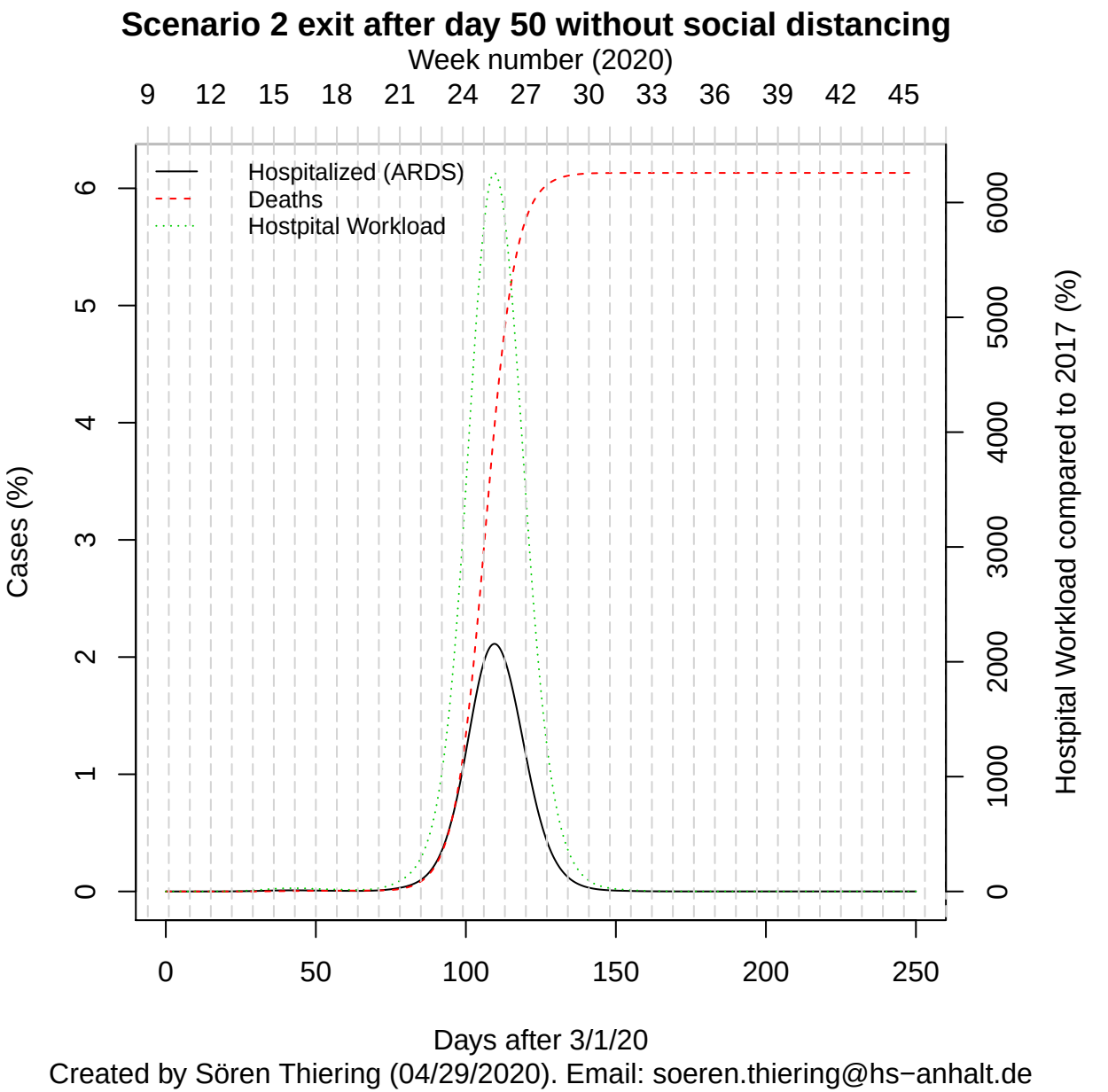

Scenario 2 exit after day 50 without social distancing
Week number (2020)
9
12
15
18
21
24
27
30
33
36
39
42
45
Cases (%)
0
20
40
60
80
100
0
50
100
150
200
250
Days after 3/1/20
Susceptibles (Noninfected)
Exposed (Incubation Time)
Infected
Hospitalized (ARDS)
Recovered
Deaths
Confirmed Cases (Total Infected)
Created by Sören Thiering (04/29/2020). 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
Hostpital Workload
Cases
0e+00
1e+06
2e+06
3e+06
4e+06
5e+06
Hostpital Workload compared to 2017 (%)
0
1000
2000
3000
4000
5000
6000
0
50
100
150
200
250
Days after 3/1/20
Created by Sören Thiering (04/29/2020). Email: soeren.thiering@hs−anhalt.de



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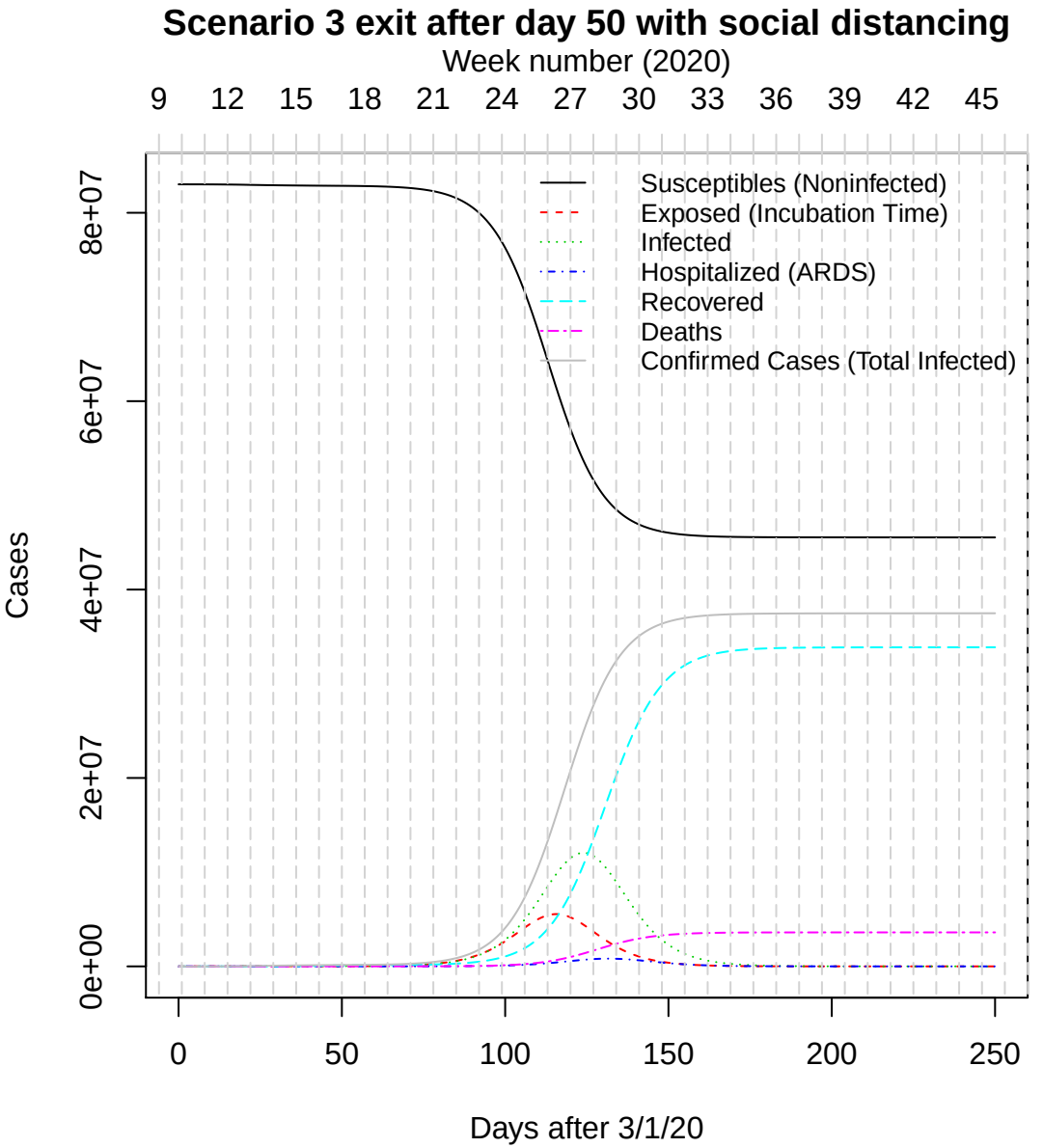

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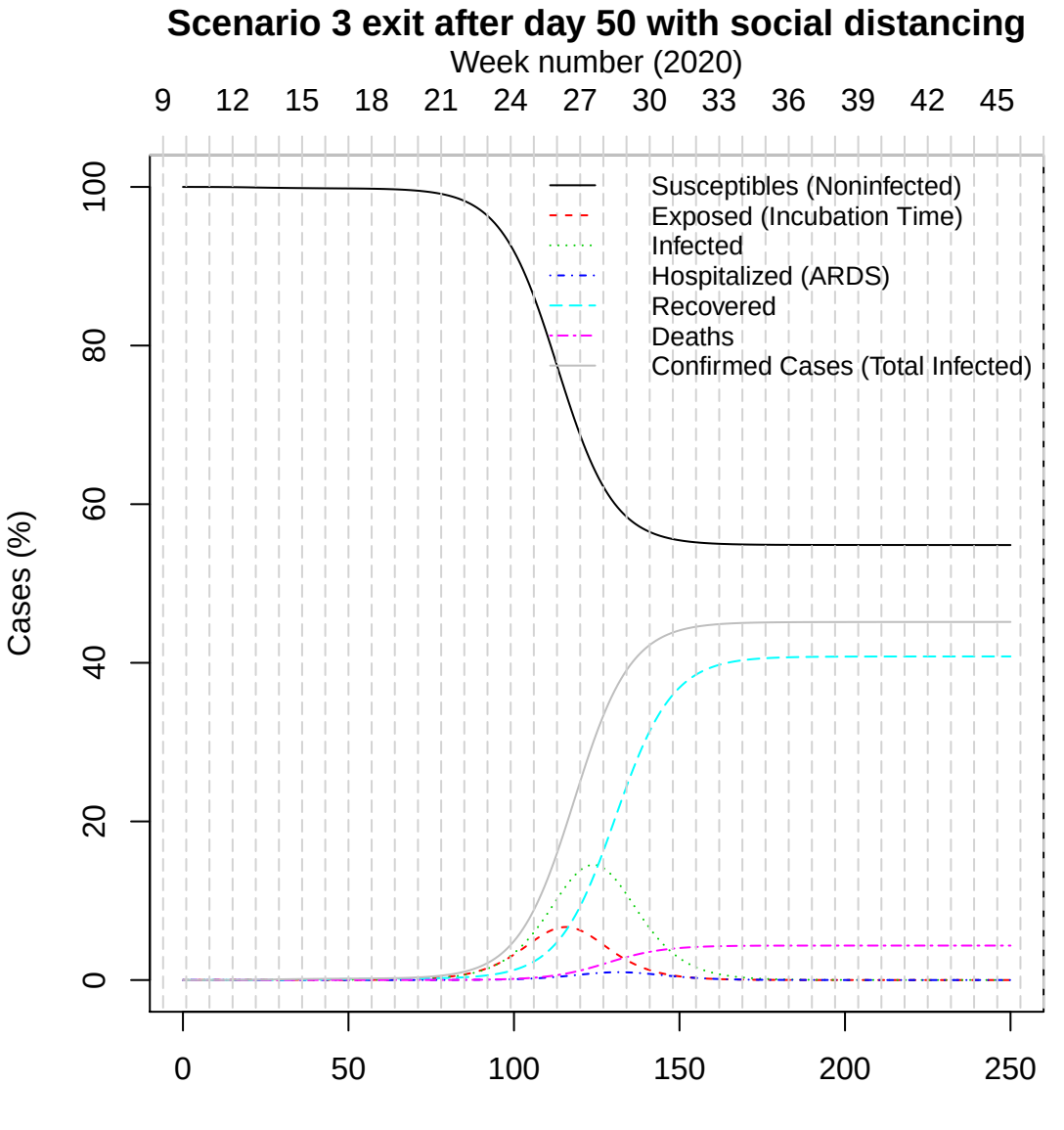
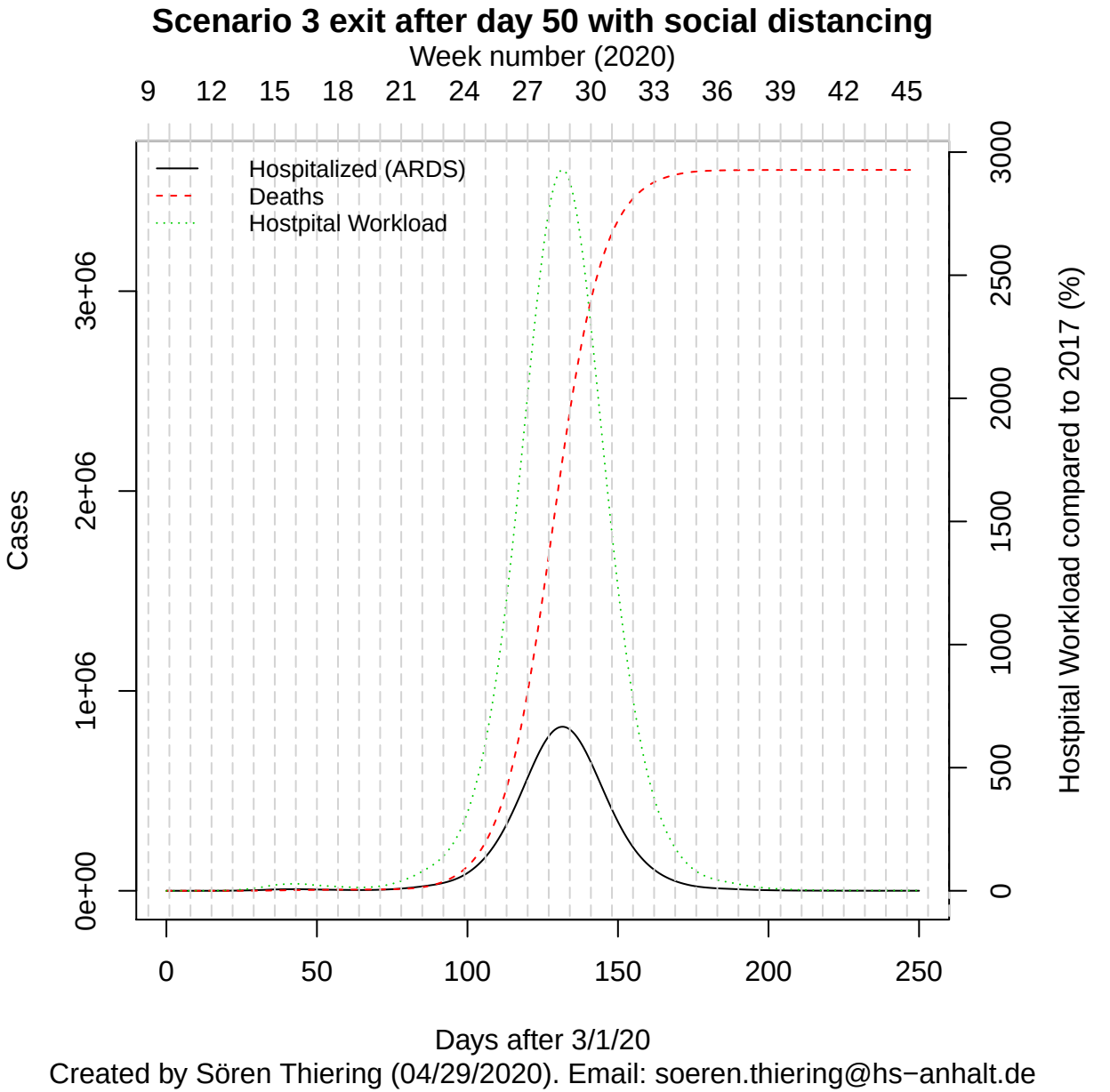

Scenario 3 exit after day 50 with social distancing
Week number (2020)
9
12
15
18
21
24
27
30
33
36
39
42
45
Susceptibles (Noninfected)
Exposed (Incubation Time)
Infected
Hospitalized (ARDS)
Recovered
Deaths
Confirmed Cases (Total Infected)
Cases (%)
0
20
40
60
80
100
0
50
100
150
200
250
Days after 3/1/20
Created by Sören Thiering (04/29/2020). Email: soeren.thiering@hs−anhalt.de



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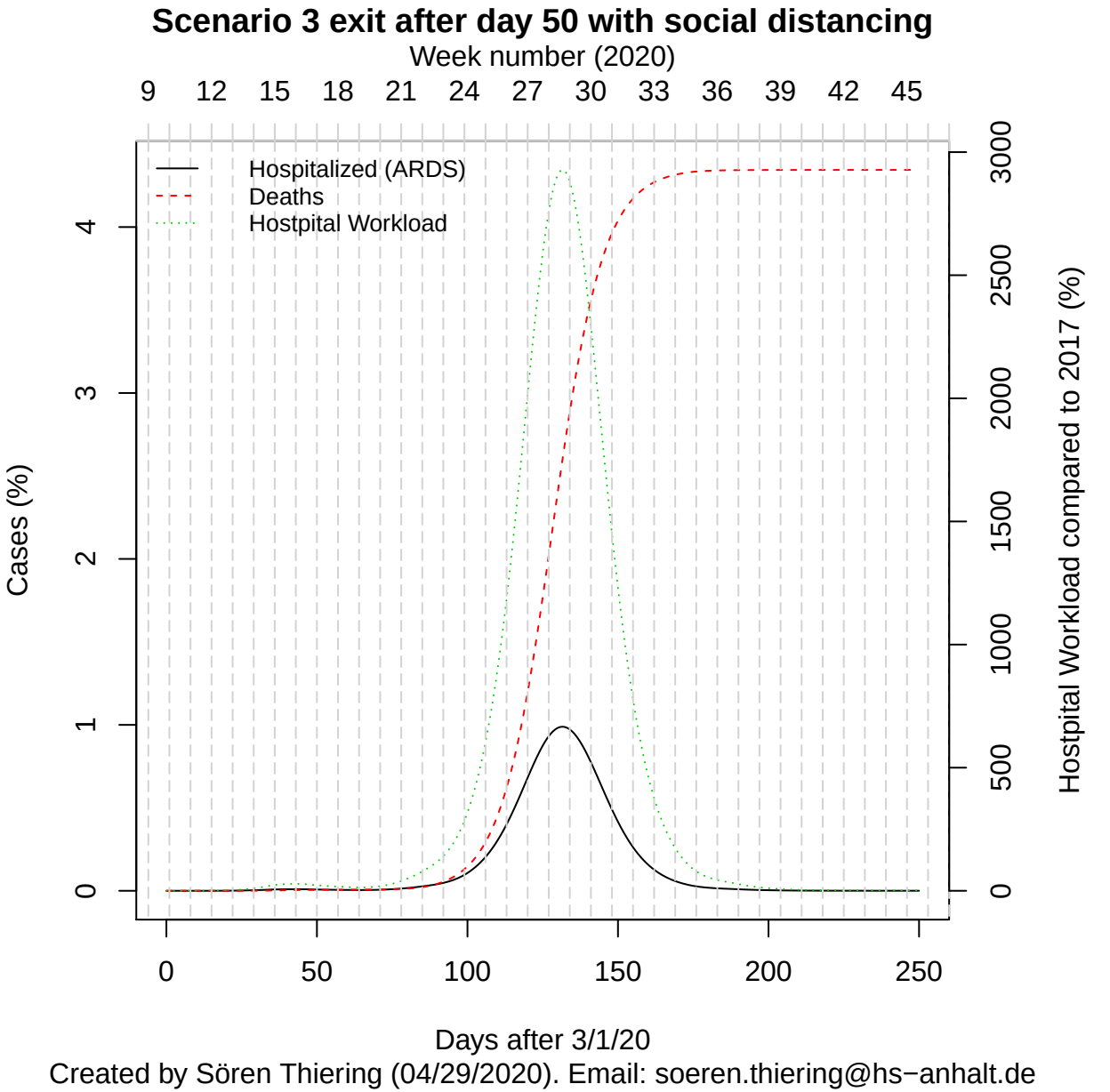

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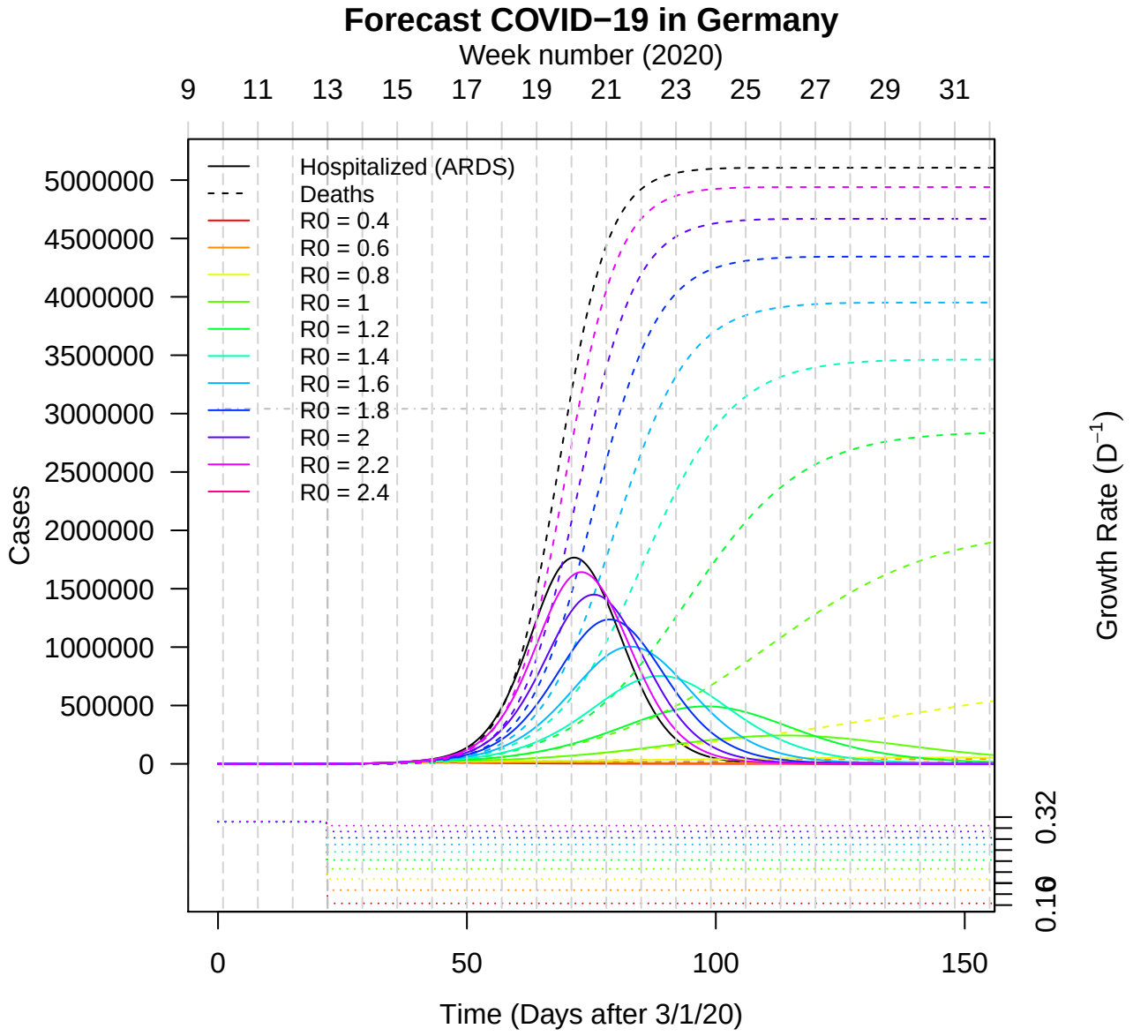

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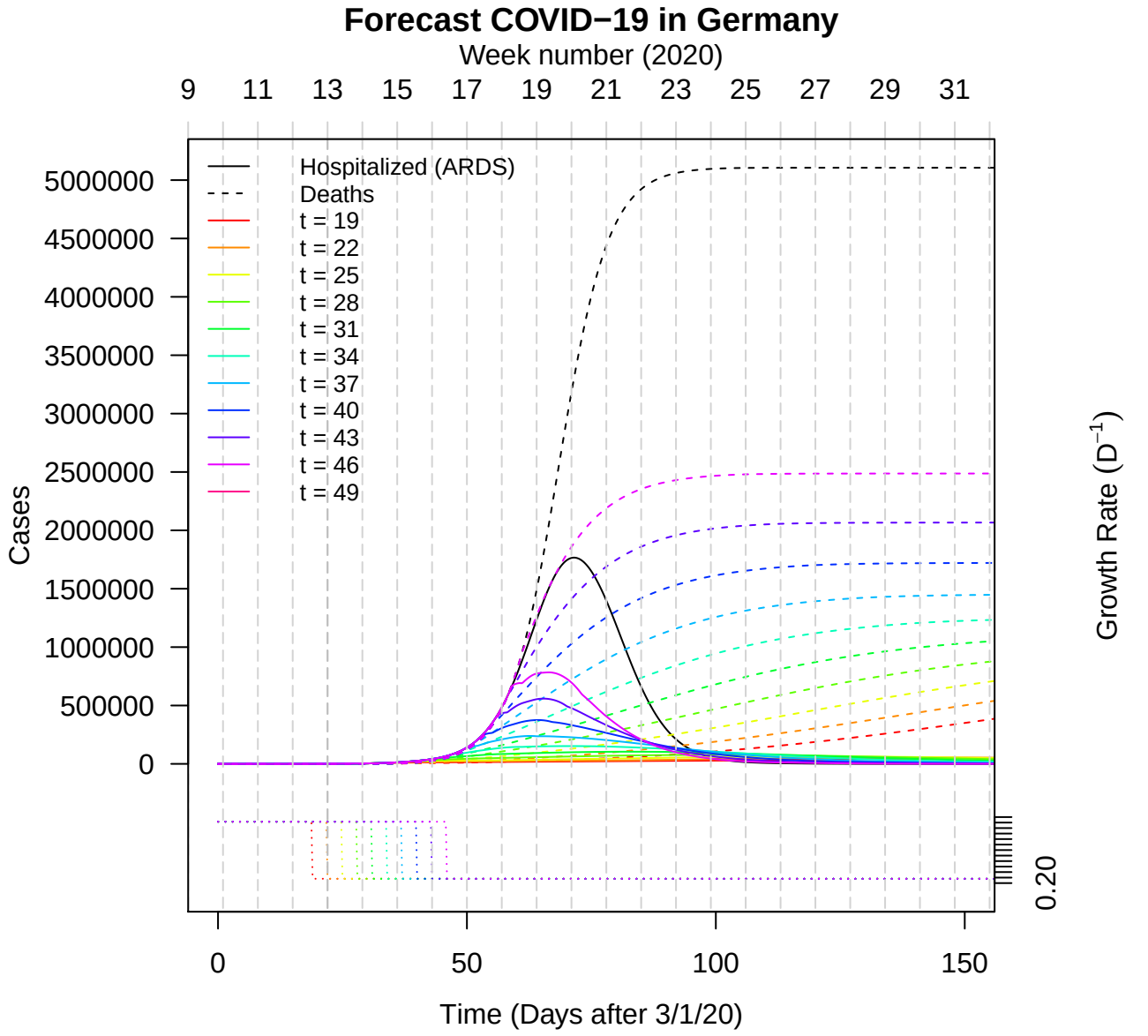

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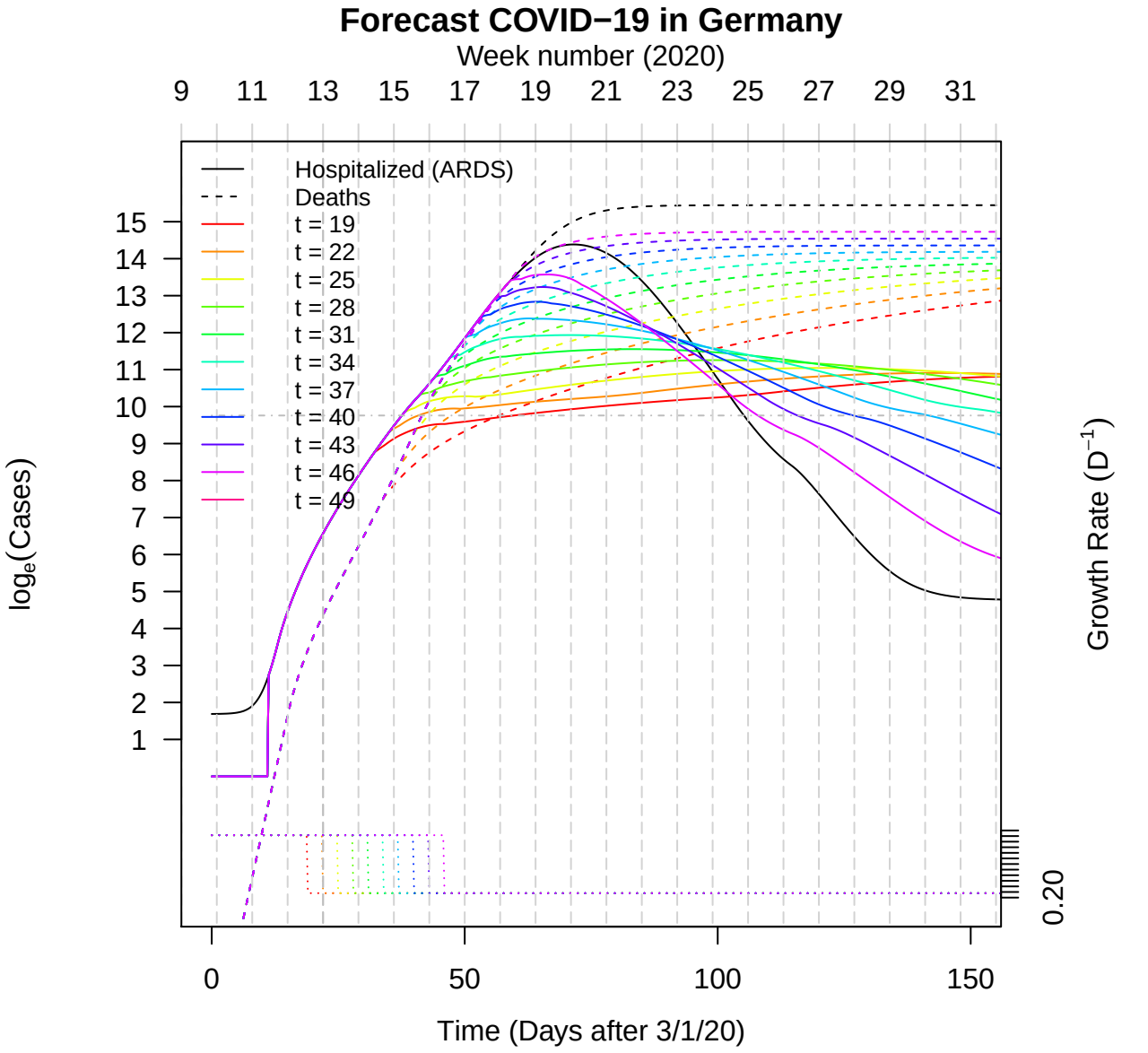

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