COVID-19 CASES

AS OF WEDNESDAY 4/8/2020, 6:00PM HST

Statistics regarding daily new cases and active cases of the eight countries that has the highest number of total cases, Switzerland, Austria, South Korea, Australia, and Cyprus.

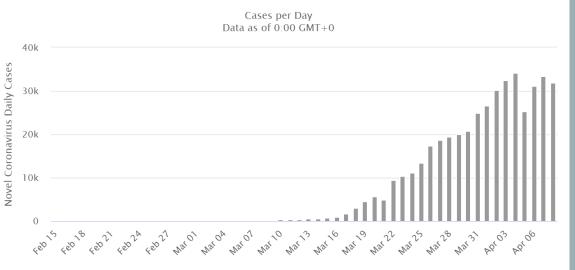
Source: https://www.worldometers.info/coronavirus/

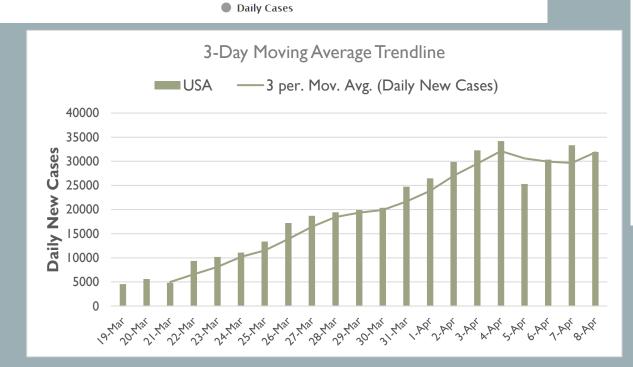
Statistics regarding daily new cases are also included for Hawaii.

Source: https://health.hawaii.gov/news/covid-19-updates/

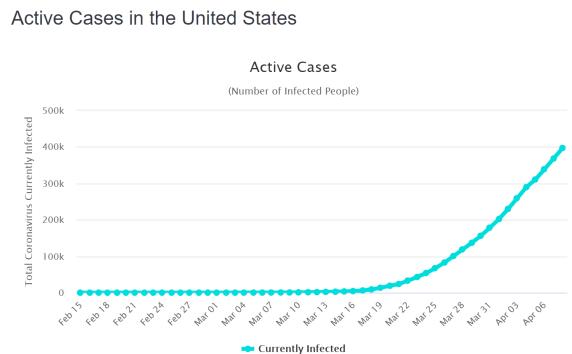
Daily New Cases in the United States







I. USA



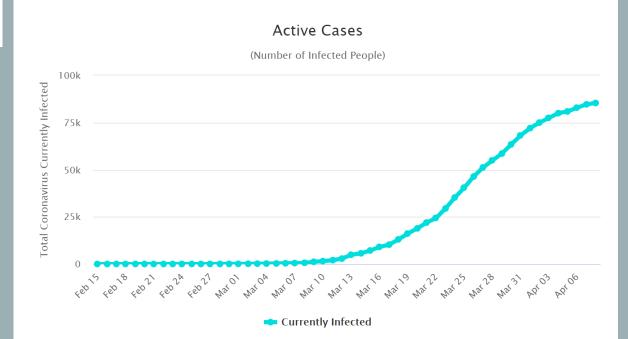
Daily New Cases Daily New Cases Cases per Day Data as of 0:00 GMT+0 7.5k 5k 2.5k

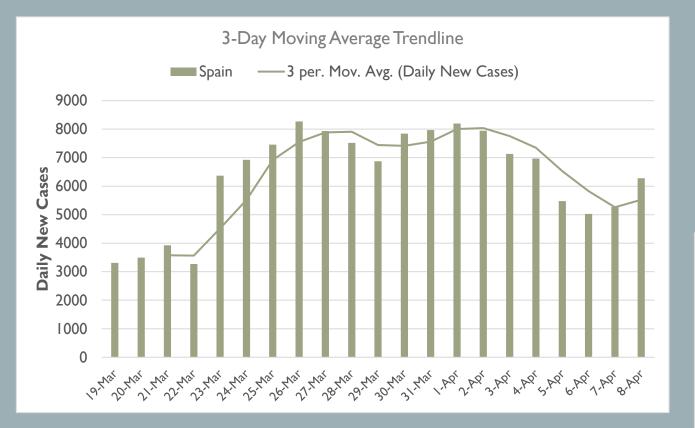
Daily Cases

Marol

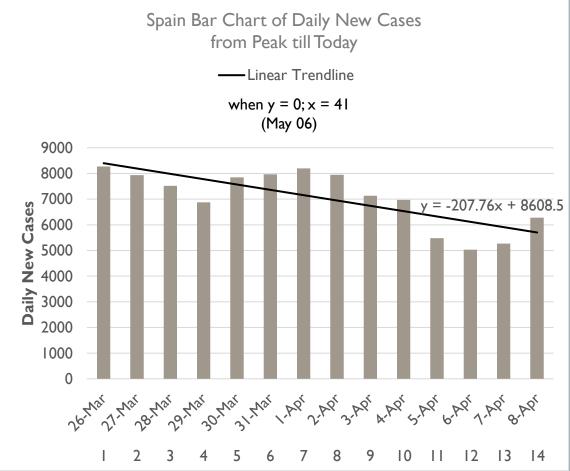
2. Spain







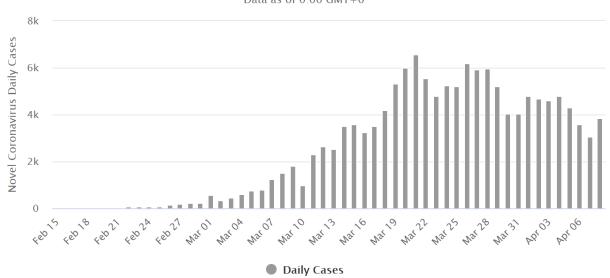
Trendlines for Spain



Daily New Cases in Italy

Daily New Cases

Cases per Day Data as of 0:00 GMT+0

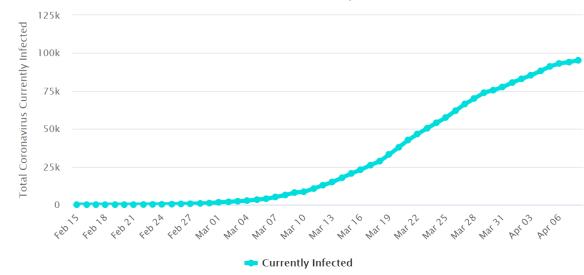


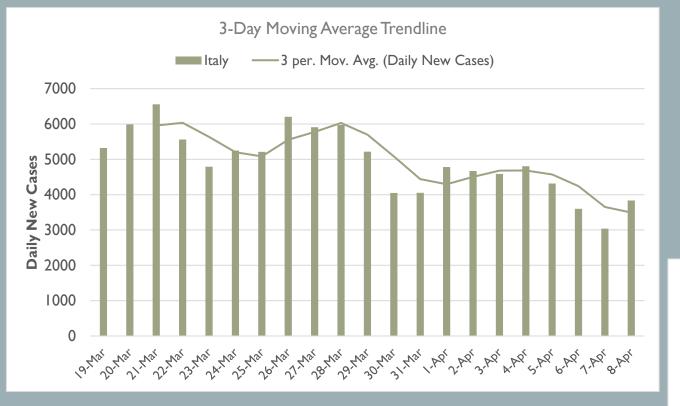
3. Italy

Active Cases in Italy



(Number of Infected People)

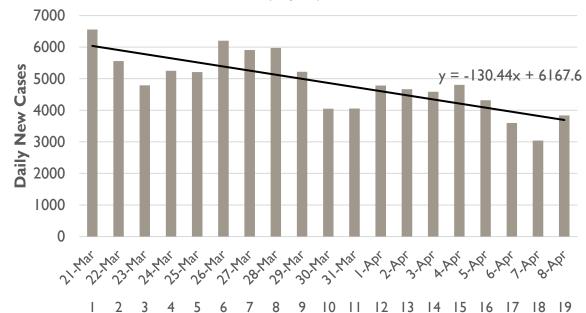




Trendlines for Italy

Italy Bar Chart of Daily New Cases from Peak till Today

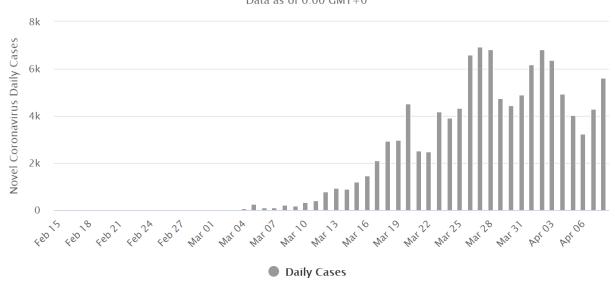
Linear Trendline
when y = 0; x = 47
(May 07)



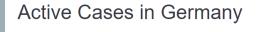
Daily New Cases in Germany

Daily New Cases

Cases per Day Data as of 0:00 GMT+0

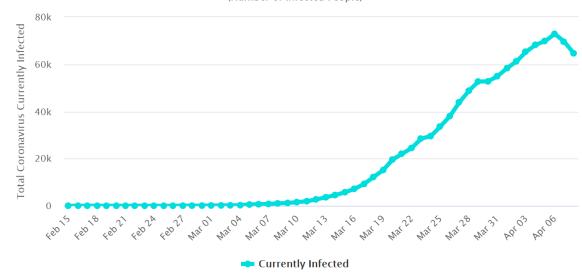


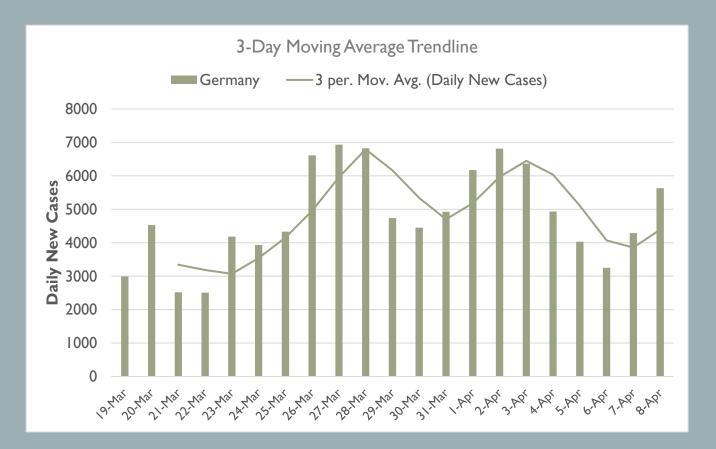
4. Germany



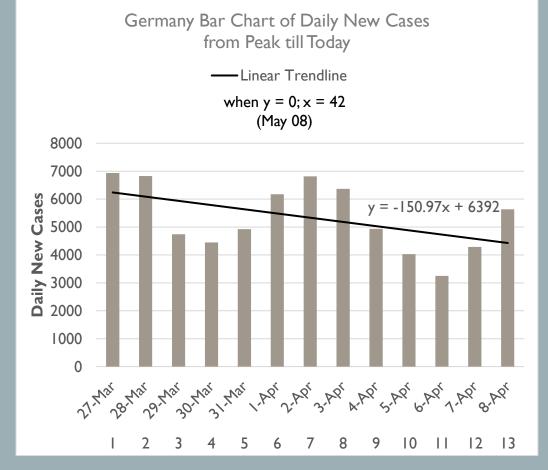


(Number of Infected People)

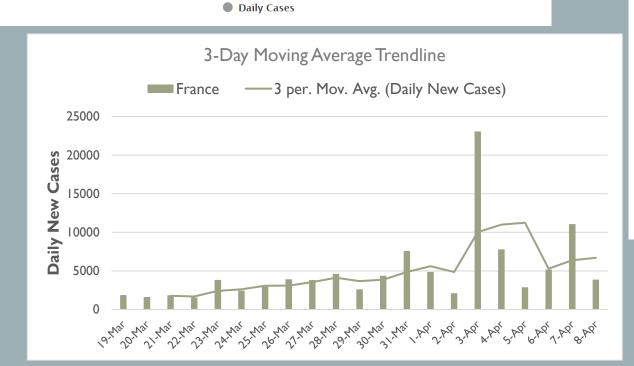




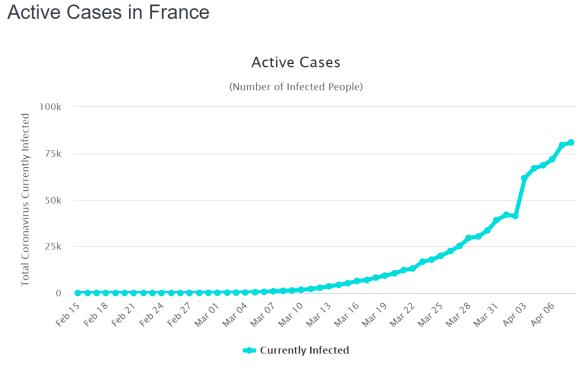
Trendlines for Germany



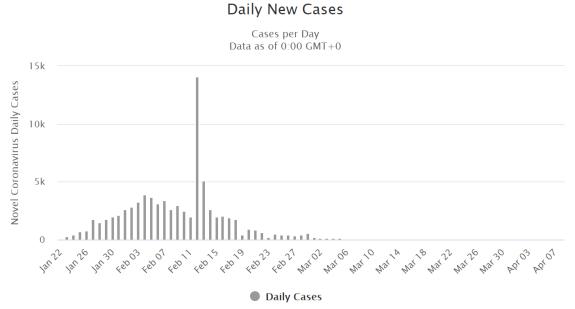
Daily New Cases Daily New Cases Cases per Day Data as of 0:00 GMT+0 25k 20k 15k 10k 0 Reb¹⁵ Reb² Reb²

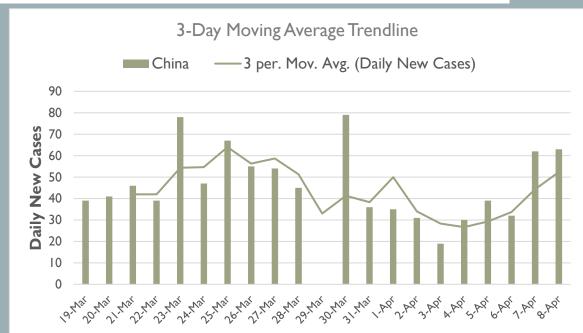


5. France

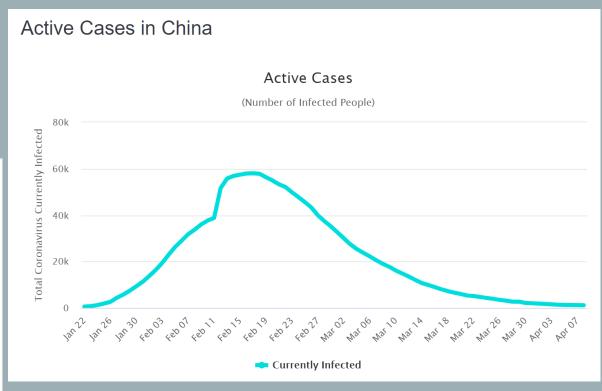


Daily New Cases in China





6. China

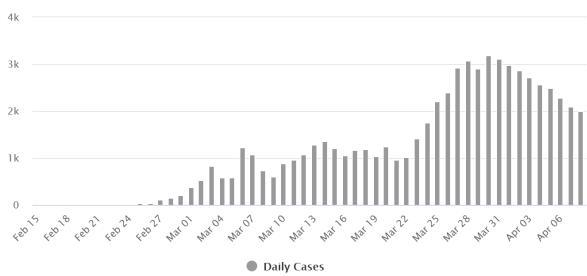


Daily New Cases in Iran

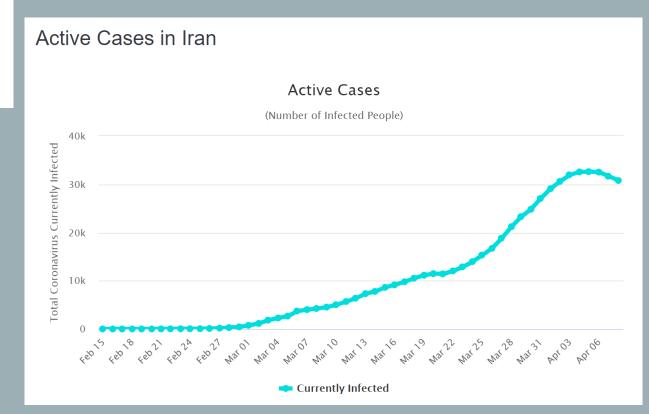
Novel Coronavirus Daily Cases

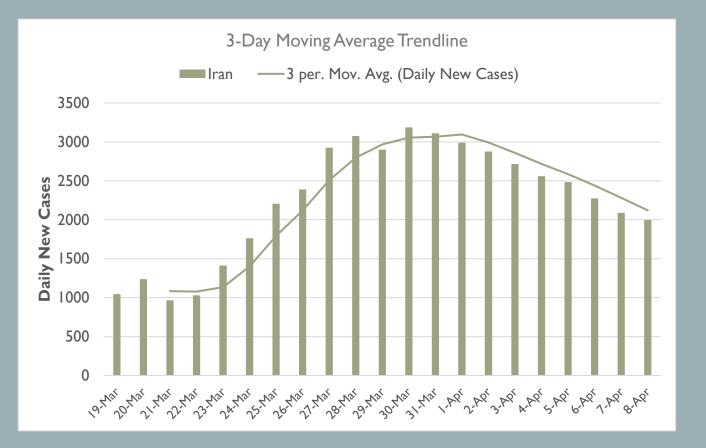
Daily New Cases

Cases per Day
Data as of 0:00 GMT+0

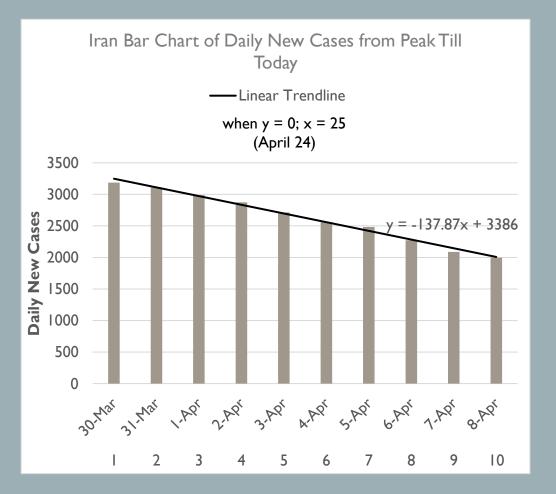


7. Iran



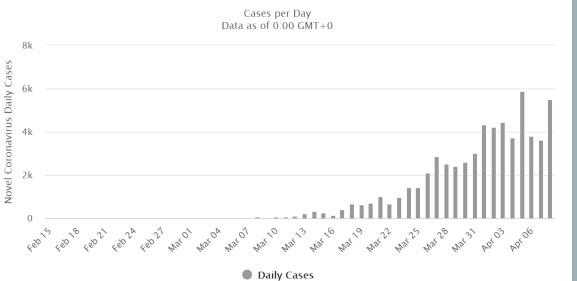


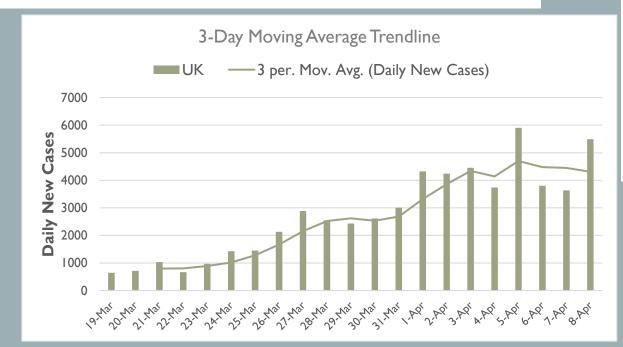
Trendlines for Iran



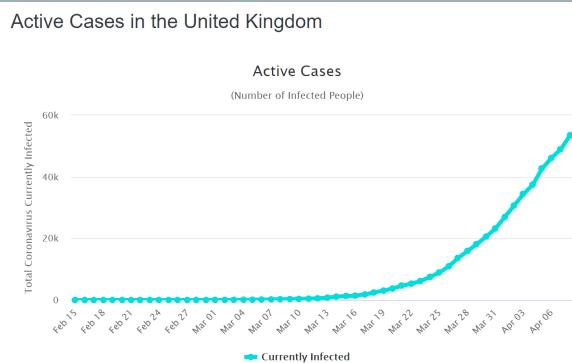
Daily New Cases in the United Kingdom







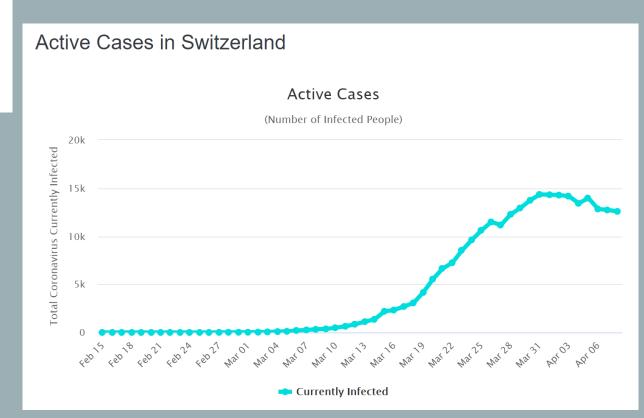
8. UK

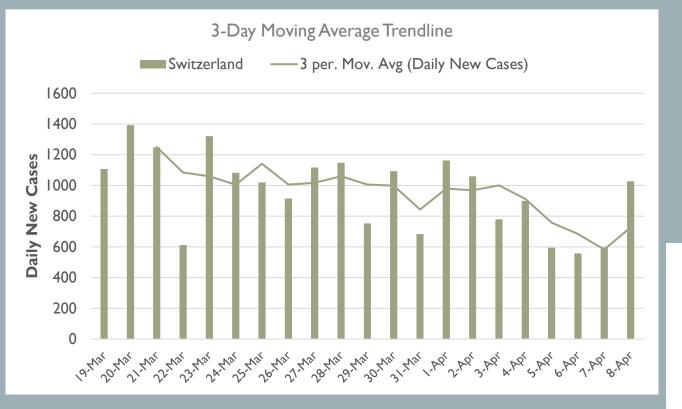


Daily New Cases in Switzerland Daily New Cases Cases per Day Data as of 0:00 GMT+0 1500 Novel Coronavirus Daily Cases Marol

Daily Cases

9. Switzerland



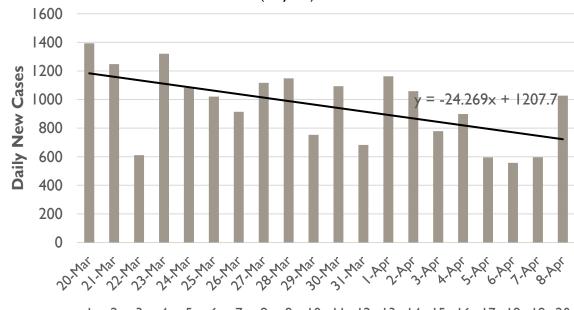


Trendlines for Switzerland

Switzerland Bar Chart of Daily New Cases from Peak till Today

— Linear Trendline

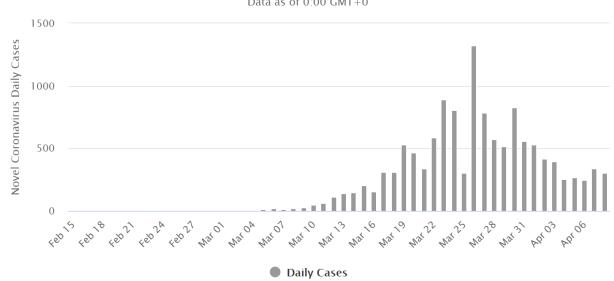
when y = 0; x = 50 (May 09)



Daily New Cases in Austria

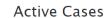
Daily New Cases

Cases per Day Data as of 0:00 GMT+0

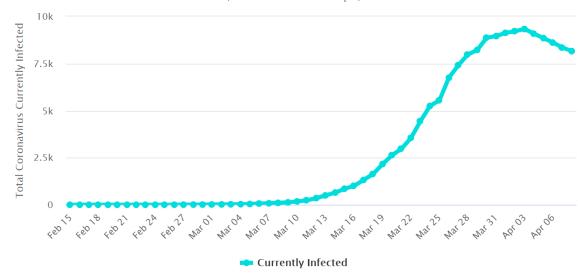


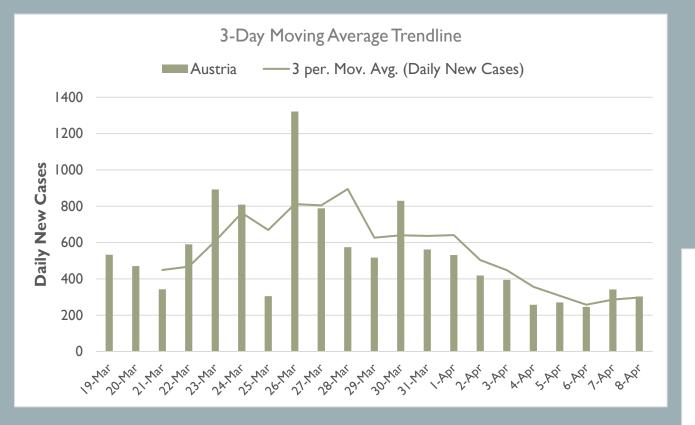
Austria



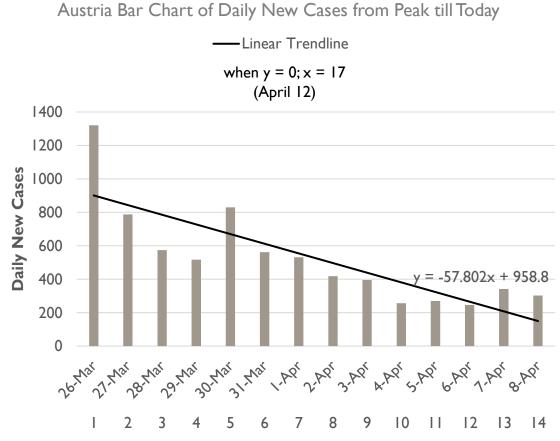


(Number of Infected People)

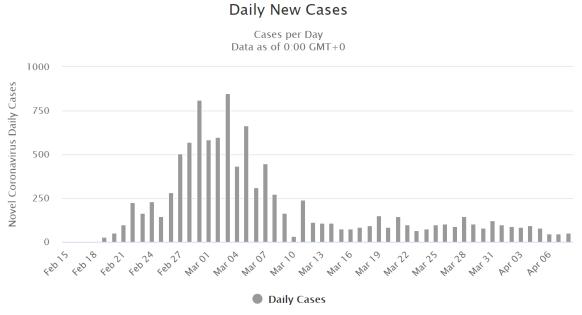


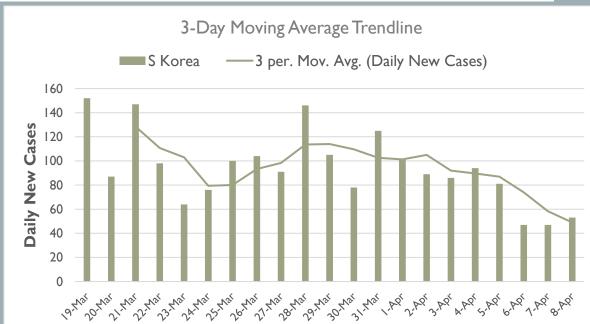


Trendlines for Austria

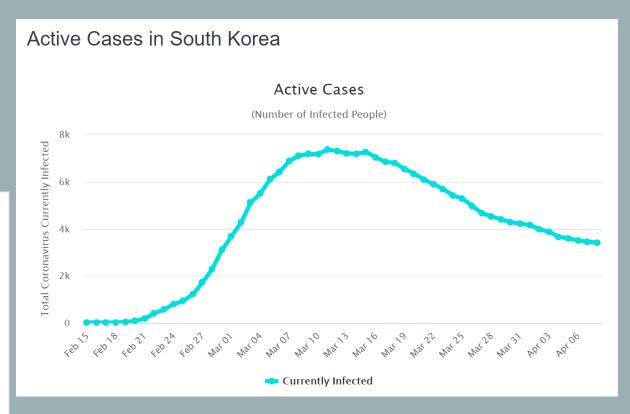


Daily New Cases in South Korea





South Korea

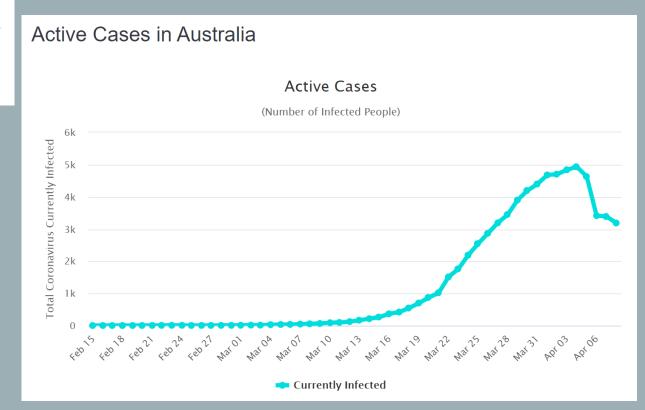


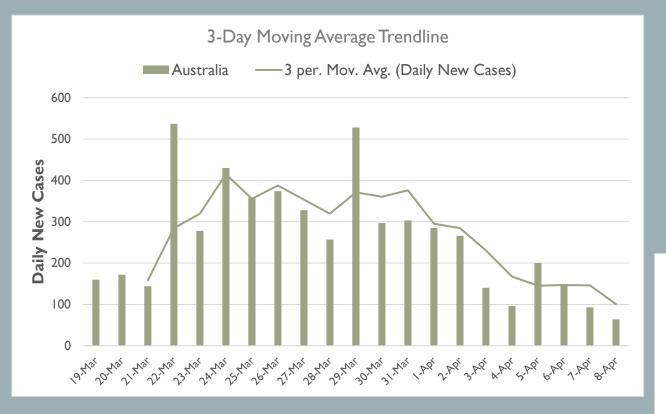
Daily New Cases Cases per Day Data as of 0:00 GMT+0

Daily Cases

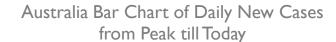
Marol

Australia

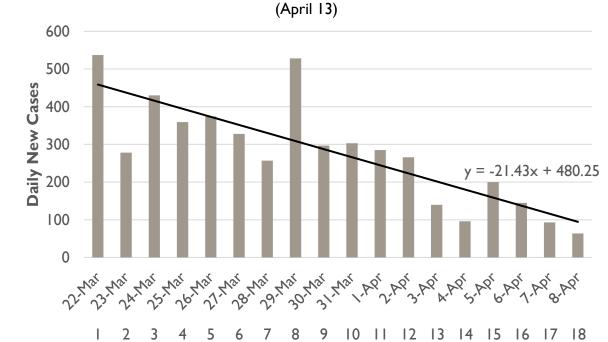


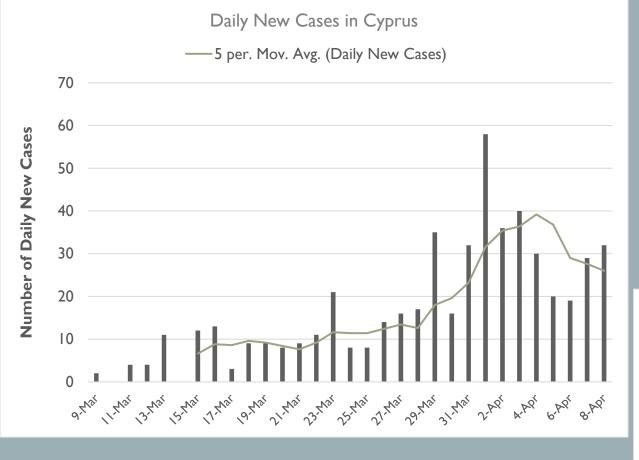


Trendlines for Australia



— Linear Trendline when y = 0; x = 22

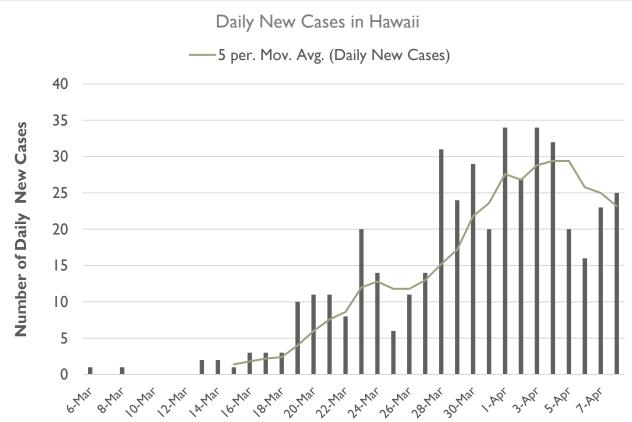




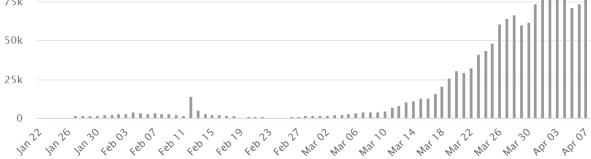
Hawaii

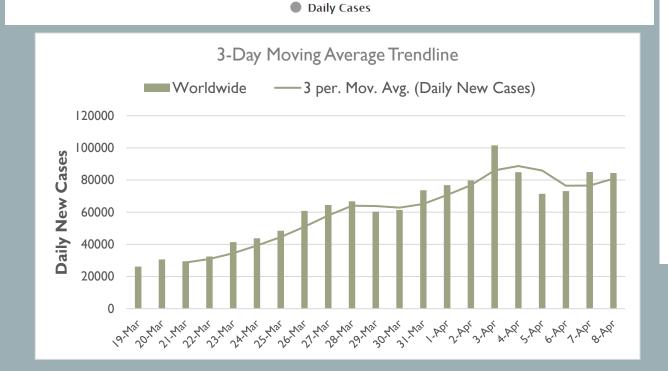
Cyprus

Correlation, r (Between Cyprus and Hawaii) = 0.786 r is significant at a = 5%









Worldwide

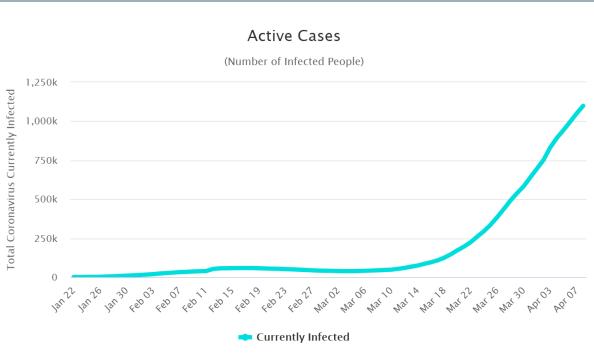


Table 1.a

GROWTH IN NEW CASES SINCE THE DAY BEFORE

	3/19	3/20	3/21	3/22	3/23	3/24	3/25	3/26	3/27	3/28	3/29	3/30	3/31	4/1	4/2	4/3	4/4	4/5	4/6	4/7	4/8
USA	1.591	1.235	0.862	1.936	1.089	1.091	1.204	1.290	1.085	1.041	1.024	1.022	1.216	1.070	1.128	1.081	1.059	0.740	1.198	1.099	0.958
Spain	1.124	1.056	1.123	0.834	1.946	1.087	1.077	1.109	0.959	0.947	0.915	1.141	1.015	1.029	0.970	0.898	0.977	0.786	0.918	1.047	1.192
ltaly	1.265	1.125	1.095	0.848	0.861	1.096	0.993	1.191	0.953	1.011	0.873	0.776	1.001	1.180	0.976	0.982	1.048	0.898	0.834	0.844	1.262
Germany	1.011	1.513	0.556	0.997	1.667	0.941	1.101	1.527	1.048	0.984	0.695	0.939	1.106	1.254	1.104	0.934	0.775	0.817	0.807	1.319	1.314
France	1.325	0.869	1.142	0.844	2.462	0.638	1.196	1.339	0.971	1.211	0.564	1.684	1.732	0.641	0.435	10.898	0.338	0.371	1.792	2.139	0.351
China	1.15	1.051	1.122	0.848	2.000	0.603	1.426	0.821	0.982	0.833	0.000		0.456	0.972	0.886	0.613	1.579	1.300	0.821	1.938	1.016
Iran	0.878	1.183	0.781	1.064	1.373	1.249	1.252	1.083	1.225	1.051	0.943	1.098	0.976	0.961	0.962	0.944	0.943	0.970	0.916	0.919	0.956
UK	0.951	1.110	1.450	0.643	1.454	1.476	1.018	1.466	1.355	0.882	0.956	1.076	1.149	1.437	0.981	1.049	0.839	1.580	0.644	0.956	1.511
Switzerland	2.968	1.258	0.896	0.490	2.162	0.819	0.943	0.896	1.222	1.028	0.656	1.452	0.625	1.703	0.911	0.736	1.154	0.662	0.936	1.070	1.723
Austria	1.697	0.882	0.730	1.720	1.512	0.907	0.377	4.331	0.597	0.728	0.901	1.605	0.677	0.945	0.787	0.945	0.651	1.051	0.911	1.390	0.886
S Korea	1.634	0.572	1.690	0.667	0.653	1.188	1.316	1.040	0.875	1.604	0.719	0.743	1.603	0.808	0.881	0.966	1.093	0.862	0.580	1.000	1.128
Australia	1.135	1.075	0.837	3.729	0.518	1.547	0.835	1.042	0.877	0.784	2.054	0.563	1.020	0.941	0.933	0.526	0.686	2.083	0.725	0.641	0.688
Cyprus	1.000	0.889	1.125	1.222	1.909	0.381	1.000	1.750	1.143	1.063	2.059	0.457	2.000	1.813	0.621	1.111	0.750	0.667	0.950	1.526	1.103
Hawaii	3.333	1.100	1.000	0.727	2.500	0.700	0.429	1.833	1.273	2.214	0.774	1.208	0.690	1.700	0.794	1.259	0.941	0.625	0.800	1.438	1.087
Worldwide	1.271	1.174	0.960	1.102	1.275	1.058	1.107	1.254	1.061	1.035	0.903	1.019	1.199	1.043	1.037	1.274	0.835	0.842	1.024	1.161	0.993

Table 1.b **AVERAGE GROWTH OF LAST FIVE DAYS** 3/23-27 3/24-28 3/25-29 3/26-30 3/27-31 3/28-4/1 3/29-4/2 3/30-4/3 3/31-4/4 4/1-4/5 4/2-4/6 4/3-4/7 4/4-4/8 USA 1.152 1.142 1.129 1.092 1.077 1.074 1.092 1.103 1.111 1.035 1.016 1.041 1.011 1.036 1.002 1.014 0.996 1.009 1.014 1.011 0.978 0.932 0.910 0.925 0.984 Spain 1.236 1.049 0.923 1.019 1.004 0.961 0.968 0.961 0.983 1.037 1.017 0.948 0.921 0.977 Italy 1.120 1.071 1.039 0.954 0.996 1.019 1.067 1.035 0.977 0.887 0.930 1.006 Germany 1.257 2.809 1.321 1.071 1.056 1.154 1.232 1.166 1.011 3.078 2.537 2.767 3.107 0.998 France 0.933 0.812 0.659 0.568 0.565 0.578 0.732 0.901 1.070 1.040 1.250 1.331 China 1.166 1.172 1.080 1.059 0.988 0.988 0.957 1.111 1.006 0.956 0.947 0.938 0.941 Iran 1.236 UK 1.354 1.239 1.135 1.147 1.084 1.100 1.120 1.138 1.091 1.177 1.019 1.014 1.106 Switzerland 1.208 0.982 0.949 1.051 0.996 1.093 1.069 1.085 1.026 1.033 0.880 0.912 1.109 1.545 1.388 1.387 1.632 0.902 0.971 0.983 0.992 0.801 0.876 0.869 0.990 0.978 Austria S Korea 1.014 1.205 1.111 0.996 1.109 1.095 0.951 1.000 1.070 0.922 0.876 0.900 0.933 Australia 0.964 1.017 1.118 1.064 1.060 1.072 1.102 0.797 0.821 1.034 0.991 0.932 0.965 1.478 1.200 1.259 1.067 1.403 1.294 1.344 1.390 0.992 0.820 1.001 0.999 Cyprus 1.237

1.290

1.103

1.347

1.151

Hawaii

Worldwide

1.305

1.072

1.461

1.054

1.232

1.043

1.317

1.040

1.033

1.040

1.130

1.115

1.077

1.078

1.064

1.006

0.884

1.003

1.013

1.027

0.978

0.971

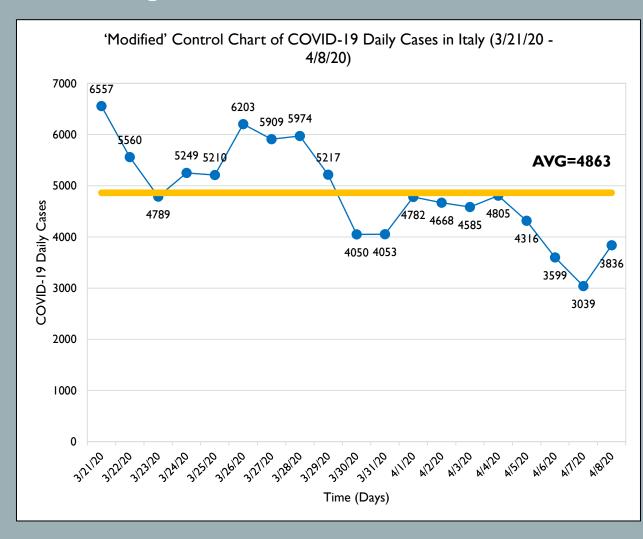
Table 2

RATIO OF THE AVERAGE NEW CASES OF RECENT THREE DAYS TO MAX DAILY PEAK

	3/22	3/23	3/24	3/25	3/26	3/27	3/28	3/29	3/30	3/31	4/1	4/2	4/3	4/4	4/5	4/6	4/7	4/8
USA	0.701	0.796	0.921	0.865	0.806	0.879	0.949	0.972	0.978	0.876	0.901	0.905	0.915	0.939	0.895	0.876	0.867	0.932
Spain	0.908	0.710	0.798	0.927	0.913	0.954	0.956	0.900	0.896	0.914	0.968	0.972	0.938	0.889	0.789	0.704	0.636	0.668
Italy	0.920	0.859	0.793	0.775	0.847	0.881	0.919	0.869	0.775	0.677	0.655	0.686	0.713	0.715	0.697	0.647	0.557	0.532
Germany	0.703	0.678	0.782	0.917	0.750	0.860	0.979	0.889	0.770	0.679	0.747	0.861	0.930	0.871	0.737	0.587	0.556	0.633
France	0.900	0.629	0.681	0.800	0.790	0.906	0.892	0.797	0.838	0.640	0.740	0.640	0.434	0.476	0.488	0.229	0.276	0.291
China	0.003	0.004	0.004	0.005	0.004	0.004	0.004	0.002	0.003	0.003	0.004	0.002	0.002	0.002	0.002	0.002	0.003	0.004
Iran	0.789	0.804	0.795	0.813	0.887	0.857	0.909	0.965	0.959	0.962	0.971	0.939	0.897	0.853	0.812	0.766	0.716	0.665
UK	0.777	0.859	0.715	0.883	0.784	0.747	0.873	0.909	0.878	0.893	0.767	0.892	0.975	0.931	0.796	0.759	0.753	0.730
Switzerland	0.778	0.761	0.721	0.819	0.722	0.730	0.761	0.722	0.716	0.605	0.703	0.695	0.718	0.655	0.544	0.491	0.418	0.522
Austria	0.793	0.682	0.856	0.750	0.614	0.609	0.677	0.474	0.485	0.482	0.485	0.381	0.339	0.270	0.233	0.195	0.217	0.225
S Korea	0.130	0.121	0.093	0.094	0.110	0.116	0.134	0.134	0.129	0.121	0.119	0.123	0.108	0.105	0.102	0.087	0.069	0.058
Australia	0.529	0.595	0.773	0.662	0.722	0.659	0.595	0.691	0.672	0.700	0.549	0.530	0.429	0.312	0.271	0.274	0.272	0.187
Cyprus	0.718	0.651	0.635	0.587	0.476	0.603	0.746	0.648	0.648	0.790	0.609	0.724	0.770	0.609	0.517	0.397	0.391	0.460
Hawaii	0.909	0.650	0.700	0.667	0.517	0.517	0.602	0.742	0.903	0.785	0.814	0.794	0.931	0.912	0.843	0.667	0.578	0.627
Worldwide	0.950	0.832	0.896	0.919	0.839	0.898	0.959	0.956	0.941	0.884	0.919	0.963	0.847	0.873	0.846	0.753	0.753	0.796

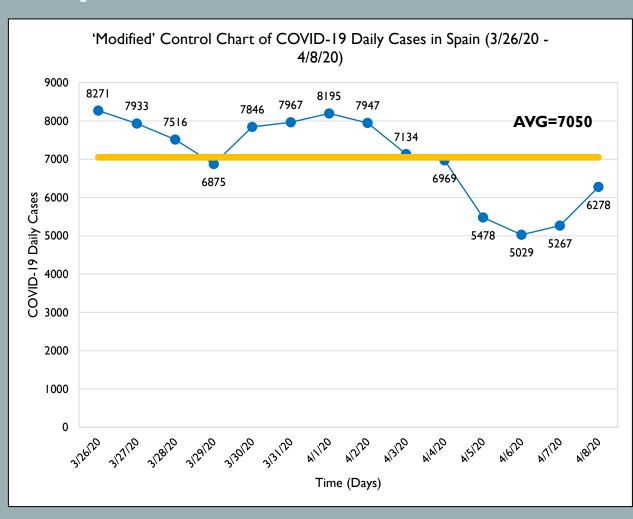
COVID-19 'MODIFIED' CONTROL CHART ANALYSIS

Italy



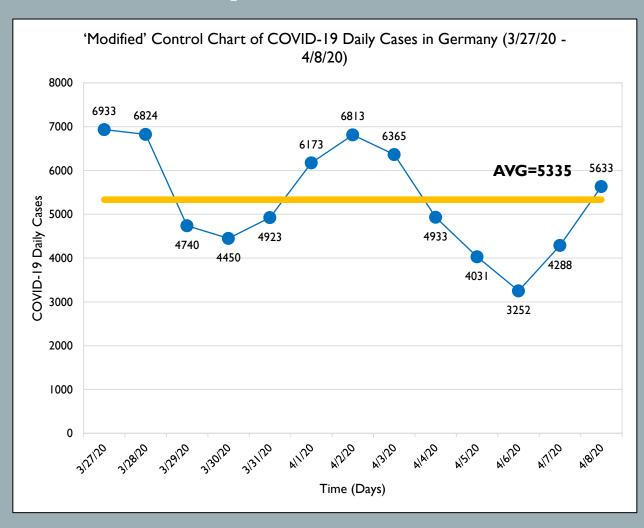
- Two points, out of three successive points, are on the same side of the centerline in Zone A or beyond.
 - The last three points (from 4/6/20 to 4/8/20) are below the control line, which suggests a good 'out-of-control' pattern for COVID-19 cases in Italy.
- Four points, out of five successive points, are on the same side of the centerline in Zone B or beyond.
 - The last five points (from 4/4/20 to 4/8/20) are all below the control line, which suggests an 'out-ofcontrol' pattern for COVID-19 cases in Italy. A good 'out-of-control' sign.
- Nine successive points are on one side of the centerline.
 - The last nine points (from 3/31/20 to 4/8/20) are all on one side (below the centerline). This good 'out-of-control' pattern suggests that the daily COVID-19 cases in Italy are stabilizing in a positive direction.

Spain



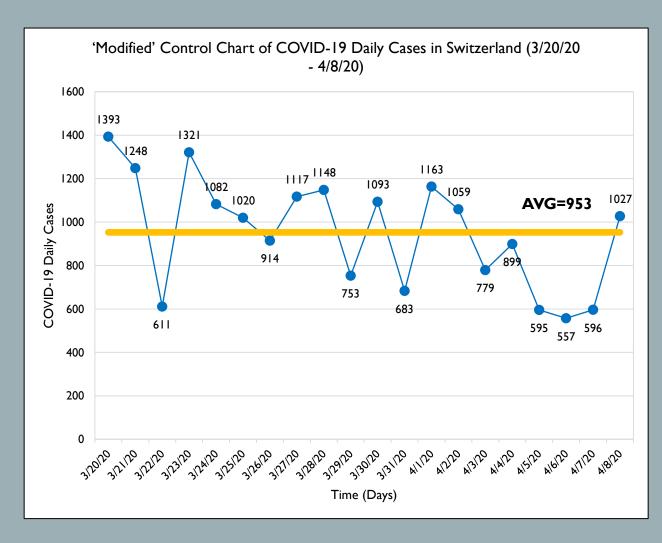
- Two points, out of three successive points, are on the same side of the centerline in Zone A or beyond.
 - The last three points (from 4/6/20 to 4/8/20) are below the control line, which suggests a good 'out-of-control' pattern for COVID-19 cases in Spain. Also, the regressed trend line from 3/26/20 has a downward slope.
- Four points, out of five successive points, are on the same side of the centerline in Zone B or beyond.
 - The last five points (from 4/4/20 to 4/8/20) are all below the control line, which suggests an 'outof-control' pattern for COVID-19 cases in Spain. A good 'out-of-control' sign.

Germany



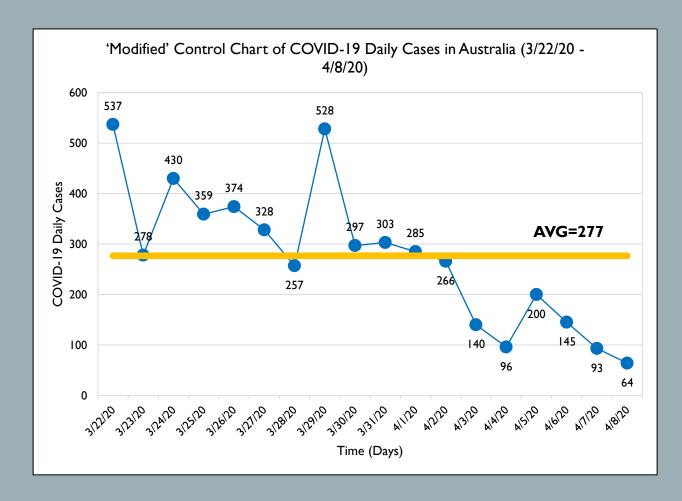
- Two points, out of three successive points, are on the same side of the centerline in Zone A or beyond.
 - Three points (from 4/5/20 to 4/7/20) are below the control line, which suggests a good 'out-of-control' pattern for COVID-19 cases in Germany. Also, a linear trend line with a downward slope can be observed from 3/27/20.
- Four points, out of five successive points, are on the same side of the centerline in Zone B or beyond.
 - Four points (from 4/4/20 to 4/7/20) are all below the control line, which suggests an 'outof-control' pattern for COVID-19 cases in Germany. A good 'out-of-control' sign.

Switzerland



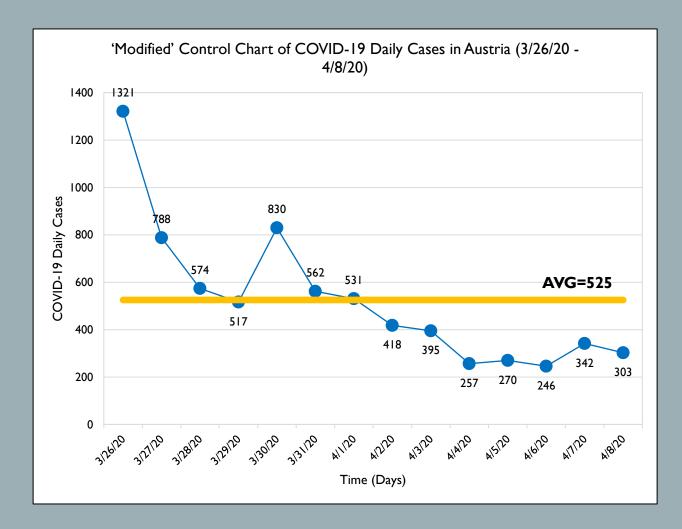
- Two points, out of three successive points, are on the same side of the centerline in Zone A or beyond.
 - Three points (from 4/5/20 to 4/7/20) are below the control line, which suggests a good 'out-of-control' pattern for COVID-19 cases in Switzerland.
- Four points, out of five successive points, are on the same side of the centerline in Zone B or beyond.
 - Four points (from 4/4/20 to 4/7/20) are all below the control line, which suggests an 'outof-control' pattern for COVID-19 cases in Switzerland. A good 'out-of-control' sign.

Australia



- Two points, out of three successive points, are on the same side of the centerline in Zone A or beyond.
 - The last three points (from 4/6/20 to 4/8/20)
 are below the control line, which suggests an
 'out-of-control' pattern for COVID-19 cases in
 Australia. This is a good pattern. Also, the
 linear trend line has a downward slope.
- Four points, out of five successive points, are on the same side of the centerline in Zone B or beyond.
 - The last five points (from 4/4/20 to 4/8/20) are all below the control line, which suggests an 'out-of-control' pattern for COVID-19 cases in Australia. A good 'out-of-control' sign. Also, a linear trend line with a downward slope can be observed from 3/22/20.

Austria



- Two points, out of three successive points, are on the same side of the centerline in Zone A or beyond.
 - The last three points (from 4/6/20 to 4/8/20)
 are below the control line, which suggests an
 'out-of-control' pattern for COVID-19 cases in
 Austria. This is a good 'out-of-control' pattern.
- Four points, out of five successive points, are on the same side of the centerline in Zone B or beyond.
 - The last five points (from 4/4/20 to 4/8/20) are all below the control line, which suggests an 'out-of-control' pattern for COVID-19 cases in Austria. A good 'out-of-control' sign. Also, a linear trend line with a downward slope can be observed from 3/26/20.