

## Appendix A

```
clear all
clc
clf

%% Loading the files
Max = [];
Min = [];
Temp = [];
Amp = [];
Max(1,:) = load('BollerupMax.txt');
Min(1,:) = load('BollerupMin.txt');
Temp(1,:) = load('Bolleruptemp.txt');
Max(2,:) = load('BredakraMax.txt');
Min(2,:) = load('BredakraMin.txt');
Temp(2,:) = load('Bredakratemp.txt');
Max(3,:) = load('FalsterboMax.txt');
Min(3,:) = load('FalsterboMin.txt');
Temp(3,:) = load('Falsterbotemp.txt');
Max(4,:) = load('HarnoMax.txt');
Min(4,:) = load('HarnoMin.txt');
Temp(4,:) = load('Harnosandtemp.txt');
Max(5,:) = load('KarlshamnMax.txt');
Min(5,:) = load('KarlshamnMin.txt');
Temp(5,:) = load('Karlshamntemp.txt');
Max(6,:) = load('LaxMax.txt');
Min(6,:) = load('LaxMin.txt');
Temp(6,:) = load('Laxtemp.txt');
Max(7,:) = load('LulMax.txt');
Min(7,:) = load('LulMin.txt');
Temp(7,:) = load('Lultemp.txt');
Max(8,:) = load('OxelMax.txt');
Min(8,:) = load('OxelMin.txt');
Temp(8,:) = load('Oxeltemp.txt');
Max(9,:) = load('SatMax.txt');
Min(9,:) = load('SatMin.txt');
Temp(9,:) = load('Sattemp.txt');
Max(10,:) = load('SundMax.txt');
Min(10,:) = load('SundMin.txt');
Temp(10,:) = load('Sundtemp.txt');

%% Counting the number of records
num = 10;                                %num-number of stations
a = zeros(1,num);
b = zeros(1,num);
v = zeros(1,num);
k = zeros(1,num);
recv = zeros(num,30);
reck = zeros(num,30);
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for i = 1:num
    a(i) = Max(i,1);
    b(i) = Min(i,1);
end
for i = 2:length(Max(1,:))
    for j = 1:num
        if Max(j,i)>a(j)
            v(j) = v(j)+1;
            a(j) = Max(j,i);
            recv(j,v(j)) = i;
        end
        if Min(j,i)<b(j)
            k(j) = k(j)+1;
            b(j) = Min(j,i);
            reck(j,k(j)) = i;
        end
    end
end
%% Making a matrix with the average maximum temperature and
%% the average minumum temperature for each year
%% and counting the number of records each year
y = 1961;
counter = 1;
year = [];
yea = 50;
ave = zeros(num,yea,3);

recvpy = zeros(50,num,30);
reckpy = zeros(50,num,30);
apy = zeros(50,num); %placeholder for varm
bpy = zeros(50,num); %placeholder for cold
vpy = zeros(50,num); %varm records per year
kpy = zeros(50,num); %cold records per year
ratios = zeros(50,num);
averageratios = zeros(50,1);
month = [31;28;31;30;31;30;31;31;30;31;30;31];
monthave = zeros(50,12,3,num+1); %monthave(year,month,min-
max-ave,station(11th is all averaged))
for i = 1:yea
    year(i,1) = y;
    year(i,2) = 365;
    for j=1:num
        s1 = Max(j,(i-1)*365+counter:i*365-1+counter);
        s1 = sum(s1)/length(s1);
        s2 = Min(j,(i-1)*365+counter:i*365-1+counter);
        s2 = sum(s2)/length(s2);
        s3 = Temp(j,(i-1)*365+counter:i*365-1+counter);
        s3 = sum(s3)/length(s3);
    end
end

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ave(j,i,1) = s1;
ave(j,i,2) = s2;
ave(j,i,3) = s3;           %ave(station,year,max-min-ave)
end
if rem(i,4)==0
    year(i,2) = 366;
    counter = counter+1;
    month(2) = 29;
else
    month(2) = 28;
end
if i == 1
    w = 1;
else
    w = sum(year(1:i-1,2))+1;
end
for t = 1:12
    m = w-1+sum(month(1:t));
    if t == 1
        e = w;
    else
        e = w+sum(month(1:t-1));
    end
    for o = 1:num+1
        if o == 11
            monthave(i,t,1,o) =
sum(sum(Min(:,e:m)))./(month(t)*num);
            monthave(i,t,2,o) =
sum(sum(Max(:,e:m)))./(month(t)*num);
            monthave(i,t,3,o) =
sum(sum(Temp(:,e:m)))./(month(t)*num);
        else
            monthave(i,t,1,o) = sum(Min(o,e:m))./month(t);
            monthave(i,t,2,o) = sum(Max(o,e:m))./month(t);
            monthave(i,t,3,o) = sum(Temp(o,e:m))./month(t);
        end
    end
end
for q = w:sum(year(1:i,2))
    for n = 1:num
        if Max(n,q)>apy(i,n)
            vpy(i,n) = vpy(i,n)+1;
            apy(i,n) = Max(n,q);
            recvpy(i,n,vpy(i,n)) = i;
        end
        if Min(n,q)<bpy(i,n)
            kpy(i,n) = kpy(i,n)+1;
            bpy(i,n) = Min(n,q);
            reckpy(i,n,kpy(i,n)) = i;
        end
    ratios(i,n) = vpy(i,n)./kpy(i,n);
end

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        end
    averageratios(i) = sum(ratios(i,:))/num;
end
y = y+1;
end

%% 5 periods of 10y each
varmis = zeros(num,5);
kallis = zeros(num,5);
averageis = zeros(num,5);
for j = 1:num
    for per = 1:5
        varmis(j,per) = sum(ave(j,(1+(per-1)*10):(10*per),1))/10;
        kallis(j,per) = sum(ave(j,(1+(per-1)*10):(10*per),2))/10;
        averageis(j,per) = sum(ave(j,(1+(per-1)*10):(10*per),3))/10;
    end
end

referens = zeros(num,1);
referens = varmis(:,1);
varmis(:,1) = varmis(:,1)-referens;
varmis(:,2) = varmis(:,2)-referens;
varmis(:,3) = varmis(:,3)-referens;
varmis(:,4) = varmis(:,4)-referens;
varmis(:,5) = varmis(:,5)-referens;
referens = zeros(num,1);
referens = kallis(:,1);
kallis(:,1) = kallis(:,1)-referens;
kallis(:,2) = kallis(:,2)-referens;
kallis(:,3) = kallis(:,3)-referens;
kallis(:,4) = kallis(:,4)-referens;
kallis(:,5) = kallis(:,5)-referens;
referens = zeros(num,1);
referens = averageis(:,1);
averageis(:,1) = averageis(:,1)-referens;
averageis(:,2) = averageis(:,2)-referens;
averageis(:,3) = averageis(:,3)-referens;
averageis(:,4) = averageis(:,4)-referens;
averageis(:,5) = averageis(:,5)-referens;
%% Investigating the different seasons and how they have
changed
%monthave(year,month,min-max-ave,station(11th is all
averaged))
wintermax = zeros(num,50);
summermax = zeros(num,50);

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autummax = zeros(num,50);
springmax = zeros(num,50);
wintermin = zeros(num,50);
summermin = zeros(num,50);
autummin = zeros(num,50);
springmin = zeros(num,50);
for j = 1:num
    ye = 1;
    for i = 1:50
        w1 = monthave(i,1,2,j);%./monthave(i,1,3,j)
        w2 = monthave(i,2,2,j);%./monthave(i,2,3,j);
        w3 = monthave(i,12,2,j);%./monthave(i,12,3,j);

        wintermax(j,i) = (w1+w2+w3)/3;
%winter(station,period,year in that period)

        w1 = monthave(i,1,1,j);
        w2 = monthave(i,2,1,j);
        w3 = monthave(i,12,1,j);

        wintermin(j,i) = (w1+w2+w3)/3;

        s1 = monthave(i,6,2,j);%./monthave(i,6,3,j);
        s2 = monthave(i,7,2,j);%./monthave(i,7,3,j);
        s3 = monthave(i,8,2,j);%./monthave(i,8,3,j);

        summermax(j,i) = (s1+s2+s3)/3;
%summer(station,period,year in that period)

        s1 = monthave(i,6,1,j);
        s2 = monthave(i,7,1,j);
        s3 = monthave(i,8,1,j);

        summermin(j,i) = (s1+s2+s3)/3;

        au1 = monthave(i,9,2,j);
        au2 = monthave(i,10,2,j);
        au3 = monthave(i,11,2,j);

        autummax(j,i) = (au1+au2+au3)/3;

        au1 = monthave(i,9,1,j);
        au2 = monthave(i,10,1,j);
        au3 = monthave(i,11,1,j);

        autummin(j,i) = (au1+au2+au3)/3;

        sp1 = monthave(i,3,2,j);
        sp2 = monthave(i,4,2,j);
        sp3 = monthave(i,5,2,j);

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springmax(j,i) = (sp1+sp2+sp3)/3;

sp1 = monthave(i,3,1,j);
sp2 = monthave(i,4,1,j);
sp3 = monthave(i,5,1,j);

springmin(j,i) = (sp1+sp2+sp3)/3;

ye = ye+1;
end
end

%% Least squares fit
%fitting the average to the function f = p1x+p2
fit = zeros(50,3,num);
p1 = zeros(3,num);
p2 = zeros(3,num);
unc = zeros(2,3,num);           %unc(p1-p2,max-min-ave,station)
for r = 1:num
    for u = 1:3
        l = zeros(50,1);
        l(:) = ave(r,:,u);
        P = [0 0];
        D = zeros(2);
        B = zeros(2,1);
        D(1,1) = sum(year(:,1).^2);
        D(1,2) = sum(year(:,1));
        D(2,1) = sum(year(:,1));
        D(2,2) = length(year(:,1));
        C = D^-1;
        B(1) = sum(year(:,1).*l(:));
        B(2) = sum(ave(r,:,u));
        H = C*B;
        p1(u,r) = H(1);
        p2(u,r) = H(2);
        fit(:,u,r) = p1(u,r).*year(:,1)+p2(u,r);
        unc(1,u,r) = C(1,1);
        unc(2,u,r) = C(2,2);
    end
end
%station,year,max-min-ave

%% Doing the same thing but for each day
days = linspace(1,length(Max(1,:)),length(Max(1,:)));
fitted = zeros(length(days),3,num);
p1 = zeros(3,num);
p2 = zeros(3,num);
Mean = zeros(3,num);
SE_p1 = zeros(3,num);
SSR = zeros(3,num);
tscore = zeros(3,num);

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for r = 1:num
    P = [0 0];
    D = zeros(2);
    B = zeros(2,1);
    D(1,1) = sum(days.^2);
    D(1,2) = sum(days);
    D(2,1) = sum(days);
    D(2,2) = length(days);
    C = D^-1;
    B(1) = sum(days.*Max(r,:));
    B(2) = sum(Max(r,:));
    H = C*B;
    p1(1,r) = H(1);
    p2(1,r) = H(2);
    fitten(:,1,r) = p1(1,r).*days+p2(1,r);
    B = zeros(2,1);
    B(1) = sum(days.*Min(r,:));
    B(2) = sum(Min(r,:));
    H = C*B;
    p1(2,r) = H(1);
    p2(2,r) = H(2);
    fitten(:,2,r) = p1(2,r).*days+p2(2,r);
    B = zeros(2,1);
    B(1) = sum(days.*Temp(r,:));
    B(2) = sum(Temp(r,:));
    H = C*B;
    p1(3,r) = H(1);
    p2(3,r) = H(2);
    fitten(:,3,r) = p1(3,r).*days+p2(3,r);
    Mean(1,r) = sum(Max(r,:))/length(Max(1,:));
    Mean(2,r) = sum(Min(r,:))/length(Max(1,:));
    Mean(3,r) = sum(Temp(r,:))/length(Max(1,:));
    SE_p1(1,r) = (sum((transpose(Max(r,:))-fitten(:,1,r)).^2))/(sqrt((sum((days-(sum(days)/length(days))).^2)*(length(days)-2)));
    SE_p1(2,r) = (sum((transpose(Min(r,:))-fitten(:,2,r)).^2))/(sqrt((sum((days-(sum(days)/length(days))).^2)*(length(days)-2)));
    SE_p1(3,r) = (sum((transpose(Temp(r,:))-fitten(:,3,r)).^2))/(sqrt((sum((days-(sum(days)/length(days))).^2)*(length(days)-2)));
    SSR(1,r) = sum((transpose(Max(r,:))-fitten(:,1,r)).^2);
    SSR(2,r) = sum((transpose(Min(r,:))-fitten(:,2,r)).^2);
    SSR(3,r) = sum((transpose(Temp(r,:))-fitten(:,3,r)).^2);
    tscore(1,r) = (p1(1,r)*sqrt(length(days)-2))/sqrt(SSR(1,r)/sum((days-(sum(days)/length(days))).^2));
    tscore(2,r) = (p1(2,r)*sqrt(length(days)-2))/sqrt(SSR(2,r)/sum((days-(sum(days)/length(days))).^2));

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tscore(3,r) = (p1(3,r)*sqrt(length(days)-
2))/sqrt(SSR(3,r)/sum((days-(sum(days)/length(days))).^2));
end

figure(1) %Max(station,:)
plot(days,Max(5,:),'r+',days,fitten(:,1,max.2-min.3-temp,station))
title('The t-distribution for cold extremes in Karlshamn')
xlabel('Day')
ylabel('Temperature {^oC}')
figure(2) %du
har # of data points degrees of freedom (length(Max(1,:))-2
plot(days,Min(1,:),'r+',days,fitten(:,2,1),'b-')
title('The minimum temperature of Bollerup')
xlabel('Day')
ylabel('Temperature {^oC}')
figure(3)
plot(days,Temp(1,:),'r+',days,fitten(:,3,1),'b-')
title('The average temperature of Bollerup')
xlabel('Day')
ylabel('Temperature {^oC}')
%% Plotting all the shit

% figure(1)
%
plot(year(:,1),ave(1,:,1),'r+',year(:,1),ave(1,:,2),'b+',year(
:,1),ave(1,:,3),'g+',year(:,1),fit(:,1,1),'r-
',year(:,1),fit(:,2,1),'b-',year(:,1),fit(:,3,1),'g-')
% title('The average temperature of Bollerup')
% legend('Average maximum temperature','Average minimum
temperature','Average temperature')
% xlabel('Year')
% ylabel('Temperature {^oC}')
%
% figure(2)
%
plot(year(:,1),ave(2,:,1),'r+',year(:,1),ave(2,:,2),'b+',year(
:,1),ave(2,:,3),'g+',year(:,1),fit(:,1,2),'r-
',year(:,1),fit(:,2,2),'b-',year(:,1),fit(:,3,2),'g-')
% title('The average temperature of Bredåkra')
% legend('Average maximum temperature','Average minimum
temperature','Average temperature')
% xlabel('Year')
% ylabel('Temperature {^oC}')
%
% figure(3)
%
plot(year(:,1),ave(3,:,1),'r+',year(:,1),ave(3,:,2),'b+',year(
:,1),ave(3,:,3),'g+',year(:,1),fit(:,1,3),'r-
',year(:,1),fit(:,2,3),'b-',year(:,1),fit(:,3,3),'g-')
% title('The average temperature of Falsterbo')

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% legend('Average maximum temperature', 'Average minimum
temperature', 'Average temperature')
% xlabel('Year')
% ylabel('Temperature {^oC}')
%
% figure(4)
%
plot(year(:,1),ave(4,:,:1),'r+',year(:,1),ave(4,:,:2),'b+',year(
:,1),ave(4,:,:3),'g+',year(:,1),fit(:,1,4),'r-
',year(:,1),fit(:,2,4),'b-',year(:,1),fit(:,3,4),'g-')
% title('The average temperature of Härnösand')
% legend('Average maximum temperature', 'Average minimum
temperature', 'Average temperature')
% xlabel('Year')
% ylabel('Temperature {^oC}')
%
% figure(5)
%
plot(year(:,1),ave(5,:,:1),'r+',year(:,1),ave(5,:,:2),'b+',year(
:,1),ave(5,:,:3),'g+',year(:,1),fit(:,1,5),'r-
',year(:,1),fit(:,2,5),'b-',year(:,1),fit(:,3,5),'g-')
% title('The average temperature of Karlshamn')
% legend('Average maximum temperature', 'Average minimum
temperature', 'Average temperature')
% xlabel('Year')
% ylabel('Temperature (degrees)')
%
% figure(6)
%
plot(year(:,1),ave(6,:,:1),'r+',year(:,1),ave(6,:,:2),'b+',year(
:,1),ave(6,:,:3),'g+',year(:,1),fit(:,1,6),'r-
',year(:,1),fit(:,2,6),'b-',year(:,1),fit(:,3,6),'g-')
% title('The average temperature of Laxbäcken')
% legend('Average maximum temperature', 'Average minimum
temperature', 'Average temperature')
% xlabel('Year')
% ylabel('Temperature {^oC}')
%
% figure(7)
%
plot(year(:,1),ave(7,:,:1),'r+',year(:,1),ave(7,:,:2),'b+',year(
:,1),ave(7,:,:3),'g+',year(:,1),fit(:,1,7),'r-
',year(:,1),fit(:,2,7),'b-',year(:,1),fit(:,3,7),'g-')
% title('The average temperature of Luleå flygplats')
% legend('Average maximum temperature', 'Average minimum
temperature', 'Average temperature')
% xlabel('Year')
% ylabel('Temperature {^oC}')
%
% figure(8)

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%
plot(year(:,1),ave(8,:,:1),'r+',year(:,1),ave(8,:,:2),'b+',year(
(:,1),ave(8,:,:3),'g+',year(:,1),fit(:,1,8),'r-
',year(:,1),fit(:,2,8),'b-',year(:,1),fit(:,3,8),'g-')
% title('The average temperature of Oxelösund')
% legend('Average maximum temperature','Average minimum
temperature','Average temperature')
% xlabel('Year')
% ylabel('Temperature {^oC}')
%
% figure(9)
%
plot(year(:,1),ave(9,:,:1),'r+',year(:,1),ave(9,:,:2),'b+',year(
(:,1),ave(9,:,:3),'g+',year(:,1),fit(:,1,9),'r-
',year(:,1),fit(:,2,9),'b-',year(:,1),fit(:,3,9),'g-')
% title('The average temperature of Såtenäs')
% legend('Average maximum temperature','Average minimum
temperature','Average temperature')
% xlabel('Year')
% ylabel('Temperature {^oC}')
%
% figure(10)
%
plot(year(:,1),ave(10,:,:1),'r+',year(:,1),ave(10,:,:2),'b+',yea
r(:,1),ave(10,:,:3),'g+',year(:,1),fit(:,1,10),'r-
',year(:,1),fit(:,2,10),'b-',year(:,1),fit(:,3,10),'g-')
% title('The average temperature of Sundsvalls flygplats')
% legend('Average maximum temperature','Average minimum
temperature','Average temperature')
% xlabel('Year')
% ylabel('Temperature {^oC}')

%
% figure(1)
%
plot(year(:,1),wintermax(7,:),'b+',year(:,1),summermax(7,:),'r
+',year(:,1),wintermin(7,:),'b*',year(:,1),summermin(7,:),'r*'')
%
% figure(2)
%
plot(year(:,1),autummax(7,:),'bl+',year(:,1),springmax(7,:),'g
+',year(:,1),autummin(7,:),'bl*',year(:,1),springmin(7,:),'g*'')

%
% disp('Average temperature in 10y periods with the first 10y
period subtracted')
% disp(averageis)
% disp('Coldest temperature in 10y periods with the first 10y
period subtracted')
% disp(kallis)
% disp('Warmest temperature in 10y periods with the first 10y
period subtracted')

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% disp(varmis)

% figure(3)
% plot(year(:,1),ratios(:,1),'b+')
% title('Ratio of warm and cold records')
% xlabel('Year')
% ylabel('Varm records/cold records')
```

## Appendix B

<b>One Sided</b>	75%	80%	85%	90%	95%	97.5%	99%	99.5%	99.75%	99.9%	99.95%
<b>Two Sided</b>	50%	60%	70%	80%	90%	95%	98%	99%	99.5%	99.8%	99.9%
<b>1</b>	1.000	1.376	1.963	3.078	6.314	12.71	31.82	63.66	127.3	318.3	636.6
<b>2</b>	0.816	1.061	1.386	1.886	2.920	4.303	6.965	9.925	14.09	22.33	31.60
<b>3</b>	0.765	0.978	1.250	1.638	2.353	3.182	4.541	5.841	7.453	10.21	12.92
<b>4</b>	0.741	0.941	1.190	1.533	2.132	2.776	3.747	4.604	5.598	7.173	8.610
<b>5</b>	0.727	0.920	1.156	1.476	2.015	2.571	3.365	4.032	4.773	5.893	6.869
<b>6</b>	0.718	0.906	1.134	1.440	1.943	2.447	3.143	3.707	4.317	5.208	5.959
<b>7</b>	0.711	0.896	1.119	1.415	1.895	2.365	2.998	3.499	4.029	4.785	5.408
<b>8</b>	0.706	0.889	1.108	1.397	1.860	2.306	2.896	3.355	3.833	4.501	5.041
<b>9</b>	0.703	0.883	1.100	1.383	1.833	2.262	2.821	3.250	3.690	4.297	4.781
<b>10</b>	0.700	0.879	1.093	1.372	1.812	2.228	2.764	3.169	3.581	4.144	4.587
<b>11</b>	0.697	0.876	1.088	1.363	1.796	2.201	2.718	3.106	3.497	4.025	4.437
<b>12</b>	0.695	0.873	1.083	1.356	1.782	2.179	2.681	3.055	3.428	3.930	4.318

<b>13</b>	0.694	0.870	1.079	1.350	1.771	2.160	2.650	3.012	3.372	3.852	4.221
<b>14</b>	0.692	0.868	1.076	1.345	1.761	2.145	2.624	2.977	3.326	3.787	4.140
<b>15</b>	0.691	0.866	1.074	1.341	1.753	2.131	2.602	2.947	3.286	3.733	4.073
<b>16</b>	0.690	0.865	1.071	1.337	1.746	2.120	2.583	2.921	3.252	3.686	4.015
<b>17</b>	0.689	0.863	1.069	1.333	1.740	2.110	2.567	2.898	3.222	3.646	3.965
<b>18</b>	0.688	0.862	1.067	1.330	1.734	2.101	2.552	2.878	3.197	3.610	3.922
<b>19</b>	0.688	0.861	1.066	1.328	1.729	2.093	2.539	2.861	3.174	3.579	3.883
<b>20</b>	0.687	0.860	1.064	1.325	1.725	2.086	2.528	2.845	3.153	3.552	3.850
<b>21</b>	0.686	0.859	1.063	1.323	1.721	2.080	2.518	2.831	3.135	3.527	3.819
<b>22</b>	0.686	0.858	1.061	1.321	1.717	2.074	2.508	2.819	3.119	3.505	3.792
<b>23</b>	0.685	0.858	1.060	1.319	1.714	2.069	2.500	2.807	3.104	3.485	3.767
<b>24</b>	0.685	0.857	1.059	1.318	1.711	2.064	2.492	2.797	3.091	3.467	3.745
<b>25</b>	0.684	0.856	1.058	1.316	1.708	2.060	2.485	2.787	3.078	3.450	3.725
<b>26</b>	0.684	0.856	1.058	1.315	1.706	2.056	2.479	2.779	3.067	3.435	3.707
<b>27</b>	0.684	0.855	1.057	1.314	1.703	2.052	2.473	2.771	3.057	3.421	3.690

<b>28</b>	0.683	0.855	1.056	1.313	1.701	2.048	2.467	2.763	3.047	3.408	3.674
<b>29</b>	0.683	0.854	1.055	1.311	1.699	2.045	2.462	2.756	3.038	3.396	3.659
<b>30</b>	0.683	0.854	1.055	1.310	1.697	2.042	2.457	2.750	3.030	3.385	3.646
<b>40</b>	0.681	0.851	1.050	1.303	1.684	2.021	2.423	2.704	2.971	3.307	3.551
<b>50</b>	0.679	0.849	1.047	1.299	1.676	2.009	2.403	2.678	2.937	3.261	3.496
<b>60</b>	0.679	0.848	1.045	1.296	1.671	2.000	2.390	2.660	2.915	3.232	3.460
<b>80</b>	0.678	0.846	1.043	1.292	1.664	1.990	2.374	2.639	2.887	3.195	3.416
<b>100</b>	0.677	0.845	1.042	1.290	1.660	1.984	2.364	2.626	2.871	3.174	3.390
<b>120</b>	0.677	0.845	1.041	1.289	1.658	1.980	2.358	2.617	2.860	3.160	3.373
<b><math>\infty</math></b>	0.674	0.842	1.036	1.282	1.645	1.960	2.326	2.576	2.807	3.090	3.291