

**Prediction of Regional scenarios and Uncertainties for
Defining European Climate change risks and Effects**

PRUDENCE (<http://prudence.dmi.dk>)

Contract No. EVK2-2001-00156

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Prediction of Regional scenarios and Uncertainties for Defining European Climate change risks and Effects – PRUDENCE

PRUDENCE was a project funded by the European Commission under its fifth framework programme. It had 21 participating institutions from a total of 9 European countries, with several additional international collaborators, who have contributed to the project from their own funding. The ideas and objectives giving the basis of the project can be summarised as follows:

Problem to be solved:

European decision-makers in government, non-governmental organisations, and industry, as well as the general public, need detailed information on estimates of the future climate. This would enable an evaluation of the risks of climate change due to anthropogenic emissions of greenhouse gases. Projections of future climate change already exist, but are insufficient, both in terms of the characterisation of their uncertainties and in terms of their regional detail. To date, the assessment of potential impacts of climate change has generally relied on projections from simple climate models or coarse-resolution Atmospheric-Ocean General Circulation Models (AOGCMs), neither capable of resolving spatial scales of less than about 300km. This coarse resolution precludes the simulation of realistic extreme events and the detailed spatial structure of variables like temperature and precipitation over heterogeneous surfaces like the Alps, the Mediterranean, or Scandinavia. Simple models include, at best, a limited physical representation of the climate system.

Scientific objectives and approach:

PRUDENCE is a European-scale investigation with the following objectives:

- a) to address and reduce the above-mentioned deficiencies in projections of the future;
- b) to quantify our confidence and the uncertainties in predictions of future climate and its impacts, using an array of climate models and impact models as well as expert judgement on their performance;
- c) to interpret these results in relation to European policies for adapting to or mitigating climate change.

Climate change is expected to affect the frequency and magnitude of extreme weather events, due to higher temperatures, an intensified hydrological cycle or more vigorous atmospheric motions. A major limitation in previous studies of extremes has been the lack of:

- appropriate computational resolution - obscures or precludes analysis of the events;
- long-term climate model integrations - drastically reduces their statistical significance;
- co-ordination between modelling groups - limits the ability to compare different studies.

These three issues are all thoroughly addressed in PRUDENCE, by using state-of-the-art high resolution global and regional climate models, by co-ordinating the project goals to address critical aspects of uncertainty, and by applying impact models and impact assessment methodologies to provide the link between the provision of climate information and its likely application to serve the needs of European society and economy.

Expected impacts:

PRUDENCE has provided a series of high-resolution climate change scenarios for 2071-2100 for Europe, characterising the variability and level of confidence in these scenarios as a function of uncertainties in model formulation, natural/internal climate variability, and alternative scenarios of future atmospheric composition. The project provides a quantitative assessment of the risks arising from changes in regional weather and climate in different parts of Europe, by estimating future changes in extreme events such as drought, flooding and wind storms and by providing a robust estimation of the likelihood and magnitude of such changes. The project also examines the uncertainties in potential impacts induced by the range of climate scenarios developed from the climate modelling results. This provides useful information for climate modellers on the levels of accuracy in climate scenarios required by impact analysts. Furthermore, a better appreciation of the uncertainty range in calculations of future impacts from climate change offer new insights into the scope for adaptation and mitigation responses to climate change

Project start and end:

PRUDENCE was formally accepted by the European Commission as contract No. EVK2-2001-00156, which was duly signed on 29 October 2001. The project thus accordingly officially started on 1 November 2001 with a duration of three years, so the formal end of the project was 30 October 2004. The final report and dissemination of results are expected by early 2005, while the scientific reporting of the project will not be in press before the end of 2005 or early 2006, when a special issue of the journal *Climatic Change* with PRUDENCE results will be ready. Meanwhile, the reader is referred to the project home page <http://prudence.dmi.dk>

About this document:

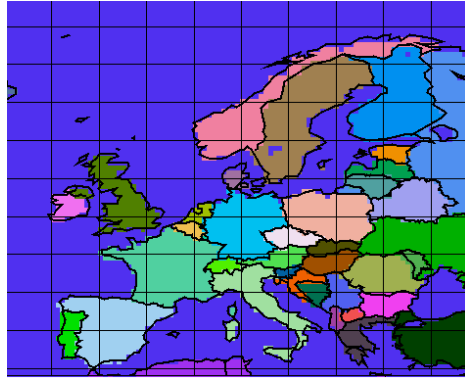
As a first attempt to generate a comprehensive assessment of expected changes in mean temperature and precipitation for Europe, an analysis based on all the PRUDENCE simulations has been conducted on a country-by-country basis. In order for this analysis to be independent of specific choices of emission scenario, a pattern scaling technique has been applied and the changes are expressed relative to a 1 °C global warming. Uncertainties in the estimates of projected changes still remain and are due to different formulations of the involved global and regional climate models as well as natural variability (inter-annual variations). A quantitative analysis of the role the different sources of uncertainty will become available with the planned special issue of *Climatic Change*. Here it is just noted that the uncertainty estimates are based on all sources of model spread.

Procedure:

For each country (some of the larger countries are split in two sections) all available simulation data for temperature and precipitation have been aggregated into one number per field representing this country for each simulation. This number is scaled according to the global temperature change using the underlying global climate model, which has been used as a driver for the regional climate model. This way, more than 25 estimates of the change in temperature and precipitation has be provided for each country. Hereafter, the resulting mean and standard deviation have been used to fit a normal probability distribution function for the projected change. Hence, estimates of the 5th, 50th and 95th percentiles of the projected changes can be provided as well as their associated 95% confidence intervals.

Results:

The following pages summarise the available information about annual and seasonally (Dec. – Jan. – Feb.), (Mar. – Apr. – May), (Jun. - Jul. – Aug.), and (Sep. – Oct. – Nov.) respectively, averaged temperature and precipitation for all European countries which are large enough to be represented by at least one grid point (50km times 50km) in the climate simulations on the geographical domain outlined below. The same scaling has been applied to all seasons.



Only countries which are completely within the domain are shown. The procedure previously described is illustrated by the example of Denmark.

The organisation of the figures are such that on the top of each page the projected changes in near surface air temperature per degree global warming is presented, below, projected relative change in precipitation per degree global warming is presented.

For each variable the results shown are as follows:

- <x>: Estimate of mean from all models
- <s>: Estimate of standard deviation from all models
- <med>: Median values based on all models
- <p95>: 95th percentile value of projected change (with 95% confidence interval)
- <p50>: 50th percentile value of projected change (with 95% confidence interval)
- <p05>: 5th percentile value of projected change (with 95% confidence interval)



Denmark

Temperature[°C] (ann)

<x>=1.1

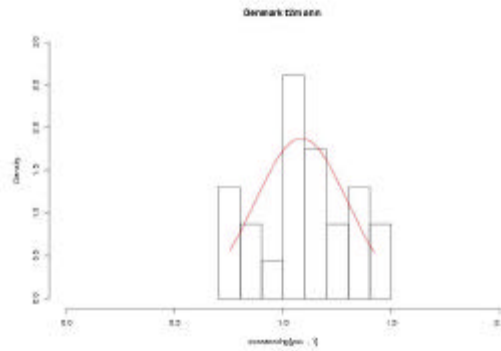
<s>=0.2

<med>=1.1

<p95>=1.4(1.3,1.5)

<p50>=1.1(1.0,1.2)

<p05>=0.7(0.6,0.8)



Temperature[°C] (DJF)	(MAM)	(JJA)	(SON)
1.0	1.0	1.1	1.2
0.2	0.2	0.2	0.2
1.1	1.0	1.0	1.2
1.4(1.3,1.6)	1.4(1.3,1.5)	1.4(1.3,1.5)	1.6(1.5,1.7)
1.0(1.0,1.1)	1.0(0.9,1.1)	1.1(1.0,1.1)	1.2(1.2,1.3)
0.6(0.5,0.8)	0.6(0.5,0.8)	0.7(0.6,0.8)	0.9(0.7,1.0)

Precipitation [%] (ann)

<x>=2.4

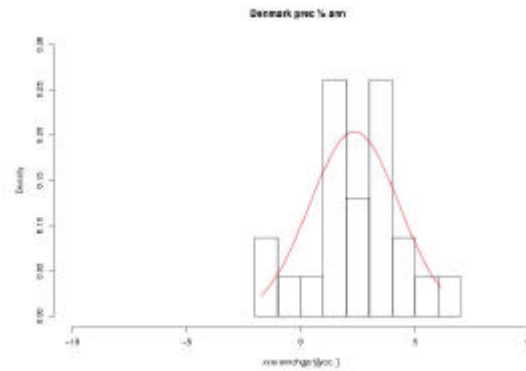
<s>=2.0

<med>=2.5

<p95>=5.6(4.5,6.6)

<p50>=2.4(1.7,3.0)

<p05>=-0.9(-1.9,0.2)



Precipitation [%] (DJF)	(MAM)	(JJA)	(SON)
9.8	3.6	-6.4	1.5
3.7	2.2	3.5	4.1
10.1	3.3	-7	1.7
15.9(13.8,17.9)	7.3(6.1,8.4)	-0.6(-2.3,1.2)	8.3(6.1,10.5)
9.8(8.5,11.1)	3.6(2.9,4.4)	-6.4(-7.5,-5.2)	1.5(0.0,2.9)
3.7(1.7,5.7)	-0.0(-1.2,1.1)	-12.2(-14.1,-10.3)	-5.3(-7.5,-3.0)



Albania

Temperature[°C] (ann)	(DJF)	(MAM)	(JJA)	(SON)
<x>=1.4	1.2	1.2	1.9	1.4
<s>=0.4	0.4	0.4	0.6	0.3
<med>=1.4	1.3	1.1	1.9	1.4
<p95>=2.1(1.9,2.3)	1.8(1.6,2.0)	1.8(1.6,2.0)	2.8(2.5,3.1)	2.0(1.8,2.2)
<p50>=1.4(1.3,1.6)	1.2(1.1,1.4)	1.2(1.0,1.3)	1.9(1.7,2.1)	1.4(1.3,1.5)
<p05>=0.8(0.6,1.0)	0.6(0.5,0.8)	0.6(0.4,0.8)	1.0(0.7,1.3)	0.8(0.7,1.0)

Precipitation [%] (ann)	(DJF)	(MAM)	(JJA)	(SON)
<x>=-4.9	0.4	-5.3	-13.9	-5.8
<s>=3.1	3.9	4.6	7	3
<med>=-4.2	0.5	-4.9	-14	-6
<p95>=0.3(-1.4,1.9)	6.7(4.7,8.7)	2.2(-0.2,4.8)	-2.3(-6.0,1.4)	-0.8(-2.5,0.7)
<p50>=-4.9(-6.0,-3.8)	0.4(-1.0,1.6)	-5.3(-6.9,-3.7)	-13.9(-16.3,-11.5)	-5.8(-6.8,-4.8)
<p05>=-10.0(-11.7,-8.4)	-6.0(-7.9,-3.9)	-12.9(-15.5,-10.4)	-25.5(-29.2,-21.7)	-10.8(-12.4,-9.3)



Austria

Temperature[°C] (ann)	(DJF)	(MAM)	(JJA)	(SON)
<x>=1.4	1.2	1.2	1.6	1.4
<s>=0.4	0.4	0.4	0.5	0.4
<med>=1.3	1.2	1.2	1.5	1.3
<p95>=2.0(1.8,2.3)	1.9(1.7,2.1)	1.8(1.6,2.0)	2.5(2.2,2.8)	2.1(1.8,2.3)
<p50>=1.4(1.2,1.5)	1.2(1.1,1.4)	1.2(1.1,1.3)	1.6(1.4,1.8)	1.4(1.3,1.5)
<p05>=0.7(0.4,0.9)	0.6(0.4,0.8)	0.5(0.3,0.7)	0.7(0.4,1.0)	0.7(0.5,0.9)

Precipitation [%] (ann)	(DJF)	(MAM)	(JJA)	(SON)
<x>=-0.5	4.9	2.3	-5.6	-1.6
<s>=1.9	4.2	3.4	4.1	2.2
<med>=-0.1	5.3	2.9	-5.5	-1.6
<p95>=2.7(1.7,3.8)	11.9(9.6,14.1)	7.9(6.0,9.8)	1.2(-0.9,3.3)	2.1(0.9,3.3)
<p50>=-0.5(-1.1,0.2)	4.9(3.5,6.3)	2.3(1.1,3.4)	-5.6(-6.9,-4.2)	-1.6(-2.3,-0.8)
<p05>=-3.6(-4.7,-2.6)	-2.0(-4.3,0.2)	-3.4(-5.3,-1.5)	-12.3(-14.4,-10.1)	-5.2(-6.4,-4.1)



Belarus

Temperature[°C] (ann)	(DJF)	(MAM)	(JJA)	(SON)
<x>=1.4	1.6	1.3	1.3	1.4
<s>=0.3	0.3	0.3	0.4	0.2
<med>=1.4	1.6	1.3	1.3	1.4
<p95>=1.8(1.7,2.0)	2.1(1.9,2.2)	1.8(1.6,1.9)	1.9(1.7,2.1)	1.8(1.7,2.0)
<p50>=1.4(1.3,1.5)	1.6(1.5,1.7)	1.3(1.3,1.4)	1.3(1.1,1.4)	1.4(1.3,1.5)
<p05>=1.0(0.9,1.1)	1.2(1.1,1.3)	0.9(0.8,1.0)	0.6(0.4,0.8)	1.0(0.9,1.1)

Precipitation [%] (ann)	(DJF)	(MAM)	(JJA)	(SON)
<x>=1.3	8.8	2.5	-2.9	-2.4
<s>=2.0	3.6	2.8	5.3	3.1
<med>=1.2	10.3	2.5	-3.4	-3.5
<p95>=4.6(3.5,5.6)	14.7(12.6,16.6)	7.1(5.6,8.6)	5.8(3.0,8.6)	2.7(1.1,4.4)
<p50>=1.3(0.6,2.0)	8.8(7.6,10.0)	2.5(1.5,3.5)	-2.9(-4.6,-1.2)	-2.4(-3.5,-1.4)
<p05>=-2.0(-3.0,-0.9)	2.9(1.0,4.8)	-2.2(-3.7,-0.7)	-11.6(-14.4,-8.8)	-7.5(-9.1,-5.9)



Belgium

Temperature[°C] (ann)	(DJF)	(MAM)	(JJA)	(SON)
<x>=1.2	1.0	1.0	1.5	1.3
<s>=0.4	0.3	0.4	0.5	0.3
<med>=1.1	0.9	0.9	1.4	1.2
<p95>=1.8(1.6,2.0)	1.5(1.3,1.7)	1.5(1.4,1.7)	2.3(2.0,2.5)	1.8(1.6,2.0)
<p50>=1.2(1.0,1.3)	1.0(0.9,1.1)	1.0(0.8,1.1)	1.5(1.3,1.6)	1.3(1.2,1.4)
<p05>=0.6(0.4,0.8)	0.4(0.2,0.6)	0.4(0.2,0.6)	0.7(0.4,0.9)	0.7(0.6,0.9)

Precipitation [%] (ann)	(DJF)	(MAM)	(JJA)	(SON)
<x>=-1.1	6.5	0.0	-11.3	-2.3
<s>=1.1	3.1	2.6	4.4	3
<med>=-1.2	6.0	0.2	-10.3	-2.4
<p95>=0.6(0.1,1.2)	11.5(9.9,13.2)	4.3(2.9,5.7)	-4.1(-6.3,-1.7)	2.7(1.1,4.2)
<p50>=-1.1(-1.5,-0.8)	6.5(5.4,7.5)	-0.0(-0.9,0.8)	-11.3(-12.8,-9.8)	-2.3(-3.4,-1.3)
<p05>=-2.9(-3.5,-2.4)	1.4(-0.2,3.0)	-4.4(-5.8,-3.1)	-18.5(-20.8,-16.1)	-7.3(-8.9,-5.6)



Bosnia-Herzegovina

Temperature[°C] (ann)	(DJF)	(MAM)	(JJA)	(SON)
<x>=1.4	1.3	1.2	1.8	1.4
<s>=0.3	0.4	0.3	0.5	0.3
<med>=1.4	1.3	1.1	1.8	1.4
<p95>=2.0(1.8,2.2)	1.9(1.7,2.1)	1.6(1.5,1.8)	2.7(2.4,2.9)	1.9(1.7,2.1)
<p50>=1.4(1.3,1.5)	1.3(1.2,1.4)	1.2(1.0,1.2)	1.8(1.6,2.0)	1.4(1.3,1.5)
<p05>=0.9(0.7,1.0)	0.7(0.5,0.9)	0.7(0.5,0.8)	1.0(0.7,1.2)	0.9(0.8,1.1)

Precipitation [%] (ann)	(DJF)	(MAM)	(JJA)	(SON)
<x>=-3.0	4.4	-3.2	-12.0	-3.1
<s>=2.3	3.9	3.6	6.6	2.2
<med>=-2.8	4.3	-3.3	-10.8	-3.2
<p95>=0.7(-0.5,1.9)	10.8(8.7,12.8)	2.7(0.8,4.6)	-1.1(-4.8,2.5)	0.6(-0.6,1.9)
<p50>=-3.0(-3.8,-2.2)	4.4(3.1,5.7)	-3.2(-4.5,-2.0)	-12.0(-14.2,-9.7)	-3.1(-3.8,-2.3)
<p05>=-6.7(-7.9,-5.6)	-2.1(-4.2,-0.0)	-9.1(-11.1,-7.2)	-22.8(-26.2,-19.2)	-6.7(-7.9,-5.5)



Bulgaria

Temperature[°C] (ann)	(DJF)	(MAM)	(JJA)	(SON)
<x>=1.4	1.3	1.2	1.8	1.4
<s>=0.2	0.2	0.3	0.4	0.3
<med>=1.4	1.3	1.1	1.8	1.3
<p95>=1.8(1.7,2.0)	1.7(1.5,1.8)	1.6(1.5,1.7)	2.4(2.2,2.6)	1.8(1.7,2.0)
<p50>=1.4(1.3,1.5)	1.3(1.3,1.4)	1.2(1.1,1.3)	1.8(1.7,1.9)	1.4(1.3,1.5)
<p05>=1.0(0.9,1.1)	1.0(0.9,1.1)	0.7(0.6,0.9)	1.2(1.0,1.4)	0.9(0.8,1.1)

Precipitation [%] (ann)	(DJF)	(MAM)	(JJA)	(SON)
<x>=-3.9	-1.0	-2.5	-11.3	-2.5
<s>=2.9	3.7	3.2	5.6	4.4
<med>=-4.2	-1.1	-2.4	-12.1	-3.7
<p95>=0.9(-0.6,2.4)	5.0(3.1,6.8)	2.7(1.0,4.3)	-2.1(-5.1,0.8)	4.8(2.3,7.2)
<p50>=-3.9(-5.0,-2.9)	-1.0(-2.2,0.2)	-2.5(-3.6,-1.4)	-11.3(-13.2,-9.4)	-2.5(-4.0,-1.0)
<p05>=-8.7(-10.3,-7.1)	-7.0(-9.0,-5.1)	-7.7(-9.4,-6.1)	-20.5(-23.6,-17.5)	-9.8(-12.0,-7.5)



Croatia

Temperature[°C] (ann)	(DJF)	(MAM)	(JJA)	(SON)
<x>=1.4	1.3	1.1	1.8	1.4
<s>=0.4	0.3	0.3	0.5	0.4
<med>=1.4	1.3	1.1	1.8	1.3
<p95>=2.0(1.8,2.2)	1.9(1.7,2.1)	1.7(1.5,1.9)	2.7(2.4,2.9)	2.0(1.8,2.2)
<p50>=1.4(1.3,1.6)	1.3(1.2,1.4)	1.1(1.0,1.2)	1.8(1.6,2.0)	1.4(1.3,1.6)
<p05>=0.8(0.6,1.0)	0.7(0.5,0.9)	0.6(0.4,0.8)	1.0(0.7,1.2)	0.8(0.7,1.0)

Precipitation [%] (ann)	(DJF)	(MAM)	(JJA)	(SON)
<x>=-1.8	7.7	-2.1	-11.5	-2.1
<s>=2.1	4.2	4.0	5.5	1.6
<med>=-1.6	8.1	-2.3	-10.5	-1.9
<p95>=1.7(0.6,2.9)	14.5(12.3,16.7)	4.4(2.3,6.5)	-2.5(-5.3,0.4)	0.4(-0.4,1.3)
<p50>=-1.8(-2.5,-1.0)	7.7(6.3,9.0)	-2.1(-3.4,-0.7)	-11.5(-13.5,-9.7)	-2.1(-2.7,-1.6)
<p05>=-5.2(-6.3,-4.1)	0.8(-1.4,2.9)	-8.6(-10.5,-6.6)	-20.6(-23.6,-17.7)	-4.7(-5.5,-3.9)



Czech Republic

Temperature[°C] (ann)	(DJF)	(MAM)	(JJA)	(SON)
<x>=1.3	1.2	1.1	1.5	1.4
<s>=0.4	0.4	0.4	0.6	0.4
<med>=1.2	1.2	1.1	1.4	1.2
<p95>=2.0(1.8,2.3)	1.9(1.7,2.1)	1.8(1.6,2.1)	2.4(2.1,2.7)	2.1(1.9,2.3)
<p50>=1.3(1.2,1.5)	1.2(1.1,1.4)	1.1(1.0,1.3)	1.5(1.3,1.7)	1.4(1.3,1.5)
<p05>=0.6(0.4,0.8)	0.6(0.3,0.8)	0.5(0.2,0.7)	0.5(0.2,0.8)	0.7(0.5,0.9)

Precipitation [%] (ann)	(DJF)	(MAM)	(JJA)	(SON)
<x>=0.1	4.5	2.9	-4.9	-0.4
<s>=2.0	3.3	3.1	5.2	2.1
<med>=0.6	4.6	3.6	-5.2	-0.8
<p95>=3.5(2.5,4.6)	10.0(8.3,11.7)	7.9(6.4,9.6)	3.6(0.9,6.5)	3.1(1.9,4.2)
<p50>=0.1(-0.5,0.8)	4.5(3.4,5.7)	2.9(1.8,4.0)	-4.9(-6.7,-3.0)	-0.4(-1.1,0.3)
<p05>=-3.2(-4.3,-2.1)	-0.9(-2.6,0.9)	-2.2(-3.8,-0.5)	-13.4(-16.2,-10.7)	-3.9(-5.0,-2.8)



Estonia

Temperature[°C] (ann)	(DJF)	(MAM)	(JJA)	(SON)
<x>=1.4	1.6	1.4	1.2	1.4
<s>=0.4	0.4	0.3	0.4	0.4
<med>=1.3	1.6	1.3	1.1	1.4
<p95>=2.0(1.8,2.2)	2.3(2.1,2.5)	1.9(1.8,2.1)	1.9(1.6,2.1)	2.0(1.8,2.2)
<p50>=1.4(1.3,1.5)	1.6(1.5,1.8)	1.4(1.3,1.5)	1.2(1.0,1.3)	1.4(1.3,1.6)
<p05>=0.8(0.6,1.0)	1.0(0.7,1.2)	0.9(0.8,1.1)	0.4(0.2,0.7)	0.8(0.6,1.0)

Precipitation [%] (ann)	(DJF)	(MAM)	(JJA)	(SON)
<x>=4.2	10.2	2.1	4.5	0.9
<s>=2.9	3.5	3.8	9.0	3.8
<med>=3.8	10.4	1.2	2.3	0.3
<p95>=9.0(7.5,10.)	16.0(14.1,17.8)	8.4(6.3,10.5)	19.3(14.8,24.1)	7.2(5.1,9.2)
<p50>=4.2(3.2,5.2)	10.2(9.0,11.4)	2.1(0.7,3.4)	4.5(1.5,7.5)	0.9(-.5,2.2)
<p05>=-0.6(-2.2,0.9)	4.4(2.4,6.2)	-4.2(-6.4,-2.1)	-10.3(-15.1,-5.6)	-5.5(-7.5,-3.5)



Finland

Temperature[°C] (ann)	(DJF)	(MAM)	(JJA)	(SON)
<x>=1.4	1.7	1.5	1.0	1.5
<s>=0.3	0.4	0.4	0.4	0.4
<med>=1.3	1.8	1.4	0.9	1.5
<p95>=2.0(1.8,2.2)	2.3(2.1,2.6)	2.2(1.9,2.4)	1.6(1.5,1.8)	2.1(1.9,2.3)
<p50>=1.4(1.3,1.5)	1.7(1.6,1.8)	1.5(1.3,1.6)	1.0(0.9,1.2)	1.5(1.4,1.6)
<p05>=0.9(0.7,1.0)	1.1(0.9,1.3)	0.8(0.5,1.0)	0.4(0.2,0.6)	0.9(0.7,1.1)

Precipitation [%] (ann)	(DJF)	(MAM)	(JJA)	(SON)
<x>=5.8	10.9	4.6	4.6	4.5
<s>=1.8	3.6	3.5	4.9	3.1
<med>=5.4	10.1	5.0	3.1	3.7
<p95>=8.7(7.7,9.6)	16.9(15.0,18.7)	10.4(8.5,12.3)	12.6(9.9,15.2)	9.7(8.0,11.4)
<p50>=5.8(5.2,6.3)	10.9(9.7,12.2)	4.6(3.4,5.8)	4.6(2.9,6.2)	4.5(3.5,5.6)
<p05>=2.9(1.9,3.8)	5.0(3.0,7.0)	-1.2(-3.1,0.7)	-3.4(-6.0,-0.9)	-0.6(-2.3,1.0)



France

Temperature[°C] (ann)	(DJF)	(MAM)	(JJA)	(SON)
North				
<x>=1.2	1.0	1.0	1.7	1.3
<s>=0.4	0.4	0.4	0.6	0.4
<med>=1.1	0.9	0.8	1.6	1.2
<p95>=2.0(1.7,2.2)	1.6(1.4,1.8)	1.6(1.4,1.9)	2.8(2.4,3.1)	1.9(1.7,2.1)
<p50>=1.2(1.1,1.4)	1.0(0.9,1.1)	1.0(0.8,1.1)	1.7(1.5,1.9)	1.3(1.2,1.4)
<p05>=0.5(0.3,0.7)	0.4(0.2,0.6)	0.3(0.0,0.5)	0.7(0.3,1.0)	0.7(0.5,0.9)
South				
<x>=1.3	1.0	1.0	1.9	1.4
<s>=0.4	0.3	0.4	0.5	0.4
<med>=1.3	1.0	1.0	1.8	1.3
<p95>=2.0(1.8,2.2)	1.5(1.4,1.7)	1.7(1.5,1.9)	2.8(2.5,3.1)	2.0(1.8,2.2)
<p50>=1.3(1.2,1.5)	1.0(0.9,1.1)	1.0(0.9,1.2)	1.9(1.8,2.1)	1.4(1.2,1.5)
<p05>=0.7(0.5,0.9)	0.6(0.4,0.7)	0.4(0.2,0.6)	1.1(0.8,1.4)	0.8(0.6,1.0)

Precipitation [%] (ann)	(DJF)	(MAM)	(JJA)	(SON)
North				
<x>=-1.5	7.4	-1.6	-13	-2.8
<s>=1.5	3.5	3.5	5.2	2.3
<med>=-1.3	7.6	-0.6	-11.6	-3.5
<p95>=1.0(0.2,1.8)	13.2(11.2,15.0)	4.1(2.3,6.0)	-4.5(-7.3,-1.6)	0.9(-0.3,2.1)
<p50>=-1.5(-2.0,-1.0)	7.4(6.2,8.7)	-1.6(-2.8,-0.4)	-13.0(-14.8,-1.3)	-2.8(-3.6,-2.0)
<p05>=-3.9(-4.7,-3.1)	1.7(-0.1,3.5)	-7.2(-9.1,-5.5)	-21.6(-24.2,-8.8)	-6.5(-7.8,-5.4)
South				
<x>=-3.3	4.9	-3.7	-13.8	-3.6
<s>=1.9	2.7	3.4	3.6	2
<med>=-3.0	5.3	-3.4	-14.9	-3.6
<p95>=-0.3(-1.2,0.8)	9.3(7.9,10.7)	2.0(0.0,3.8)	-7.8(-9.8,-5.8)	-0.4(-1.4,0.6)
<p50>=-3.3(-3.9,-2.6)	4.9(4.0,5.8)	-3.7(-4.9,-2.5)	-13.8(-5.1,12.5)	-3.6(-4.3,-3.0)
<p05>=-6.4(-7.3,-5.4)	0.5(-1.0,1.9)	-9.4(-11.4,-7.6)	-19.8(-21.7,-7.9)	-6.9(-8.0,-5.8)



FYR Macedonia

Temperature[°C] (ann)	(DJF)	(MAM)	(JJA)	(SON)
<x>=1.4	1.3	1.2	1.9	1.4
<s>=0.3	0.3	0.3	0.4	0.3
<med>=1.5	1.4	1.2	1.9	1.5
<p95>=1.9(1.8,2.1)	1.8(1.7,2.0)	1.6(1.5,1.8)	2.6(2.4,2.8)	1.8(1.7,2.0)
<p50>=1.4(1.3,1.5)	1.3(1.2,1.4)	1.2(1.1,1.3)	1.9(1.7,2.0)	1.4(1.3,1.5)
<p05>=0.9(0.8,1.1)	0.7(0.6,0.9)	0.7(0.6,0.9)	1.1(0.9,1.4)	1.0(0.8,1.1)

Precipitation [%] (ann)	(DJF)	(MAM)	(JJA)	(SON)
<x>=-4.6	-1.1	-4	-11.8	-4.1
<s>=2.8	3.5	3.8	7.7	3.0
<med>=-4.4	-0.9	-4.3	-10.5	-3.5
<p95>=-0.1(-1.5,1.4)	4.6(2.8,6.5)	2.2(0.3,4.3)	0.9(-3.2,4.9)	0.8(-0.7,2.4)
<p50>=-4.6(-5.5,-3.6)	-1.1(-2.2,0.2)	-4.0(-5.2,-2.7)	-11.8(-14.3,-9.2)	-4.1(-5.1,-3.1)
<p05>=-9.2(-10.7,-7.6)	-6.8(-8.6,-5.0)	-10.2(-12.2,-8.2)	-24.5(-28.4,-20.4)	-8.9(-10.6,-7.3)



Germany

Temperature[°C] (ann)	(DJF)	(MAM)	(JJA)	(SON)
South				
<x>=1.3	1.1	1.1	1.6	1.4
<s>=0.4	0.4	0.4	0.6	0.4
<med>=1.2	1.1	1.0	1.4	1.3
<p95>=2.0(1.8,2.2)	1.7(1.5,1.9)	1.7(1.5,1.9)	2.5(2.2,2.9)	1.9(1.7,2.1)
<p50>=1.3(1.2,1.4)	1.1(1.0,1.3)	1.1(1.0,1.2)	1.6(1.4,1.8)	1.4(1.2,1.5)
<p05>=0.6(0.4,0.8)	0.5(0.4,0.7)	0.4(0.2,0.6)	0.6(0.3,0.9)	0.8(0.6,1.0)
North				
<x>=1.2	1.1	1.0	1.3	1.3
<s>=0.4	0.4	0.4	0.5	0.3
<med>=1.1	1.0	1.0	1.1	1.3
<p95>=1.8(1.6,2.0)	1.8(1.6,2.0)	1.6(1.4,1.8)	2.0(1.8,2.3)	1.8(1.7,2.0)
<p50>=1.2(1.1,1.3)	1.1(1.0,1.2)	1.0(0.9,1.2)	1.3(1.1,1.5)	1.3(1.2,1.4)
<p05>=0.6(0.4,0.8)	0.5(0.2,0.7)	0.5(0.3,0.6)	0.6(0.3,0.8)	0.8(0.6,0.9)

Precipitation [%] (ann)	(DJF)	(MAM)	(JJA)	(SON)
South				
<x>=-0.3	5.1	2.0	-6.4	-1.7
<s>=1.6	2.9	3.3	4.7	2.3
<med>=0.2	4.8	2.2	-6.1	-2.4
<p95>=2.3(1.5,3.2)	9.9(8.3,11.5)	7.3(5.5,9.0)	1.3(-1.1,3.9)	2.1(0.9,3.3)
<p50>=-0.3(-0.8,0.3)	5.1(4.1,6.1)	2.0(0.8,3.1)	-6.4(-8.0,-4.8)	-1.7(-2.5,-0.9)
<p05>=-2.8(-3.7,-2.0)	0.3(-1.2,1.9)	-3.4(-5.2,-1.7)	-14.0(-16.6,-11.6)	-5.5(-6.7,-4.3)
North				
<x>=0.1	6.0	2.1	-7.3	-0.5
<s>=1.7	4.1	2.3	4.9	3.2
<med>=0.4	5.3	1.6	-7.2	-0.8
<p95>=2.9(2.0,3.8)	12.6(10.4,14.7)	6.0(4.7,7.2)	0.9(-1.8,3.6)	4.7(3.1,6.4)
<p50>=0.1(-0.5,0.7)	6.0(4.6,7.4)	2.1(1.3,2.9)	-7.3(-8.9,-5.6)	-0.5(-1.6,0.6)
<p05>=-2.7(-3.7,-1.8)	-0.7(-2.8,1.5)	-1.7(-2.9,-0.5)	-15.4(-18.0,-12.6)	-5.7(-7.4,-4.1)



Greece

Temperature[°C] (ann)	(DJF)	(MAM)	(JJA)	(SON)
<x>=1.4	1.2	1.2	1.8	1.4
<s>=0.4	0.3	0.3	0.5	0.3
<med>=1.3	1.2	1.1	1.7	1.4
<p95>=2.0(1.8,2.2)	1.7(1.5,1.8)	1.7(1.5,1.9)	2.7(2.4,3.0)	2.0(1.8,2.1)
<p50>=1.4(1.3,1.5)	1.2(1.1,1.3)	1.2(1.0,1.3)	1.8(1.6,2.0)	1.4(1.3,1.5)
<p05>=0.8(0.6,1.0)	0.7(0.6,0.9)	0.6(0.4,0.8)	0.9(0.7,1.2)	0.8(0.6,1.0)

Precipitation [%] (ann)	(DJF)	(MAM)	(JJA)	(SON)
<x>=-5.8	-4.6	-5.6	-13.5	-4.4
<s>=3.7	3.9	5	7.8	4.2
<med>=-6.0	-4.2	-4.8	-12.7	-3.9
<p95>=0.2(-1.7,2.2)	1.8(-0.3,3.8)	2.6(-0.0,5.2)	-0.7(-5.0,3.4)	2.6(0.4,5.0)
<p50>=-5.8(-7.1,-4.5)	-4.6(-5.9,-3.3)	-5.6(-7.3,-3.9)	-13.5(-16.2,-10.8)	-4.4(-5.8,-2.8)
<p05>=-11.9(-13.8,-9.8)	-11.0(-13.1,-9.0)	-13.8(-16.5,-11.2)	-26.3(-30.3,-22.3)	-11.4(-13.6,-9.0)



Hungary

Temperature[°C] (ann)	(DJF)	(MAM)	(JJA)	(SON)
<x>=1.4	1.3	1.1	1.7	1.5
<s>=0.3	0.3	0.3	0.4	0.3
<med>=1.3	1.3	1.1	1.6	1.5
<p95>=1.9(1.8,2.1)	1.9(1.7,2.1)	1.6(1.5,1.8)	2.4(2.2,2.6)	2.0(1.8,2.1)
<p50>=1.4(1.3,1.5)	1.3(1.2,1.4)	1.1(1.0,1.2)	1.7(1.5,1.8)	1.5(1.4,1.6)
<p05>=0.9(0.7,1.0)	0.8(0.6,0.9)	0.6(0.5,0.8)	1.0(0.8,1.2)	1.0(0.8,1.1)

Precipitation [%] (ann)	(DJF)	(MAM)	(JJA)	(SON)
<x>=-0.3	9.0	0.9	-8.2	-1.9
<s>=2.2	3.7	3.7	5.3	2.1
<med>=0.2	9.2	0.4	-7.5	-2.4
<p95>=3.4(2.2,4.6)	15.0(13.0,16.9)	7.0(5.0,9.0)	0.5(-2.3,3.2)	1.5(0.4,2.7)
<p50>=-0.3(-1.0,0.5)	9.0(7.7,10.3)	0.9(-0.4,2.1)	-8.2(-9.9,-6.4)	-1.9(-2.6,-1.2)
<p05>=-3.9(-5.1,-2.8)	3.0(1.0,5.0)	-5.2(-7.2,-3.3)	-16.9(-19.5,-14.1)	-5.3(-6.4,-4.2)



Ireland

Temperature[°C] (ann)	(DJF)	(MAM)	(JJA)	(SON)
<x>=0.8	0.6	0.7	1.0	1.0
<s>=0.3	0.3	0.3	0.4	0.3
<med>=0.7	0.5	0.6	0.9	0.9
<p95>=1.3(1.2,1.5)	1.1(0.9,1.2)	1.2(1.0,1.4)	1.6(1.4,1.8)	1.5(1.3,1.7)
<p50>=0.8(0.7,0.9)	0.6(0.5,0.7)	0.7(0.6,0.8)	1.0(0.9,1.1)	1.0(0.9,1.1)
<p05>=0.3(0.1,0.4)	0.1(-0.1,0.3)	0.2(-0.0,0.3)	0.4(0.2,0.6)	0.4(0.3,0.6)

Precipitation [%] (ann)	(DJF)	(MAM)	(JJA)	(SON)
<x>=-0.2	4.9	0.8	-9.7	0.6
<s>=1.8	2.2	1.4	4.4	3.1
<med>=-0.7	4.6	0.7	-9.7	-0.2
<p95>=2.7(1.8,3.7)	8.5(7.3,9.7)	3.0(2.3,3.8)	-2.5(-4.8,-0.2)	5.7(4.1,7.4)
<p50>=-0.2(-0.8,0.4)	4.9(4.1,5.7)	0.8(0.3,1.3)	-9.7(-11.2,-8.2)	0.6(-0.5,1.6)
<p05>=-3.1(-4.0,-2.1)	1.2(0.0,2.4)	-1.4(-2.2,-0.7)	-16.9(-19.3,-14.5)	-4.5(-6.2,-2.9)



Italy

Temperature[°C] (ann)	(DJF)	(MAM)	(JJA)	(SON)
<x>=1.4	1.1	1.1	1.8	1.4
<s>=0.3	0.3	0.3	0.4	0.3
<med>=1.4	1.1	1.1	1.9	1.4
<p95>=1.9(1.7,2.0)	1.6(1.5,1.8)	1.6(1.4,1.8)	2.5(2.3,2.7)	1.8(1.7,2.0)
<p50>=1.4(1.3,1.5)	1.1(1.0,1.2)	1.1(1.0,1.2)	1.8(1.7,2.0)	1.4(1.3,1.5)
<p05>=0.9(0.7,1.0)	0.7(0.5,0.8)	0.7(0.5,0.8)	1.1(0.9,1.4)	0.9(0.8,1.1)

Precipitation [%] (ann)	(DJF)	(MAM)	(JJA)	(SON)
<x>=-2.8	3.0	-3.6	-10.6	-0.9
<s>=2.1	2.6	4.1	5.1	2.8
<med>=-2.8	3.1	-3.2	-11	-1.2
<p95>=0.7(-0.4,1.8)	7.2(5.9,8.5)	3.2(1.0,5.4)	-2.2(-4.9,0.5)	3.6(2.3,5.0)
<p50>=-2.8(-3.5,-2.0)	3.0(2.2,3.8)	-3.6(-5.1,-2.2)	-10.6(-12.3,-8.9)	-0.9(-1.8,0.0)
<p05>=-6.2(-7.3,-5.1)	-1.2(-2.6,0.0)	-10.4(-12.7,-8.2)	-19.0(-21.6,-16.4)	-5.5(-6.9,-4.0)



Latvia

Temperature[°C] (ann)	(DJF)	(MAM)	(JJA)	(SON)
<x>=1.4	1.6	1.4	1.2	1.4
<s>=0.3	0.3	0.3	0.4	0.3
<med>=1.3	1.6	1.4	1.1	1.4
<p95>=1.8(1.7,2.0)	2.1(1.9,2.3)	1.8(1.6,1.9)	1.8(1.6,2.0)	1.9(1.7,2.0)
<p50>=1.4(1.3,1.5)	1.6(1.5,1.7)	1.4(1.3,1.4)	1.2(1.0,1.3)	1.4(1.3,1.5)
<p05>=0.9(0.8,1.1)	1.0(0.8,1.2)	0.9(0.8,1.1)	0.6(0.4,0.7)	0.9(0.8,1.1)

Precipitation [%] (ann)	(DJF)	(MAM)	(JJA)	(SON)
<x>=3.2	9.7	2.5	1.8	-0.2
<s>=2.8	4.0	3.5	7.0	3.9
<med>=3.2	9.8	2.1	0.9	-0.1
<p95>=7.8(6.3,9.3)	16.2(14.0,18.3)	8.2(6.3,10.1)	13.2(9.4,16.9)	6.2(4.1,8.2)
<p50>=3.2(2.3,4.2)	9.7(8.3,11.1)	2.5(1.2,3.7)	1.8(-0.7,4.2)	-0.2(-1.5,1.2)
<p05>=-1.4(-2.8,0.1)	3.2(1.0,5.2)	-3.3(-5.2,-1.4)	-9.7(-13.4,-5.9)	-6.5(-8.6,-4.5)



Lithuania

Temperature[°C] (ann)	(DJF)	(MAM)	(JJA)	(SON)
<x>=1.4	1.5	1.3	1.2	1.4
<s>=0.3	0.4	0.3	0.4	0.3
<med>=1.4	1.6	1.3	1.2	1.5
<p95>=1.8(1.7,2.0)	2.1(1.9,2.3)	1.7(1.6,1.9)	1.8(1.6,2.0)	1.9(1.7,2.0)
<p50>=1.4(1.3,1.5)	1.5(1.4,1.7)	1.3(1.2,1.4)	1.2(1.1,1.3)	1.4(1.3,1.5)
<p05>=0.9(0.7,1.0)	0.9(0.7,1.1)	0.9(0.7,1.0)	0.6(0.4,0.8)	0.9(0.8,1.1)

Precipitation [%] (ann)	(DJF)	(MAM)	(JJA)	(SON)
<x>=2.0	8.8	2.3	-1.1	-1.3
<s>=2.2	4.4	2.5	5.7	3.9
<med>=2.6	9.0	2.5	-1.9	-0.6
<p95>=5.7(4.5,6.9)	16.1(13.7,18.3)	6.5(5.1,7.9)	8.3(5.4,11.4)	5.1(3.0,7.1)
<p50>=2.0(1.3,2.8)	8.8(7.3,10.3)	2.3(1.5,3.2)	-1.1(-3.0,1.0)	-1.3(-2.6,-0.0)
<p05>=-1.6(-2.8,-0.5)	1.6(-0.8,3.9)	-1.8(-3.2,-0.5)	-10.5(-13.5,-7.2)	-7.7(-9.6,-5.6)



Luxembourg

Temperature[°C] (ann)	(DJF)	(MAM)	(JJA)	(SON)
<x>=1.2	1.0	1.0	1.6	1.3
<s>=0.4	0.3	0.4	0.5	0.4
<med>=1.2	1.0	0.9	1.5	1.2
<p95>=1.9(1.6,2.0)	1.6(1.4,1.7)	1.6(1.4,1.8)	2.4(2.2,2.7)	1.9(1.7,2.1)
<p50>=1.2(1.1,1.4)	1.0(0.9,1.1)	1.0(0.9,1.1)	1.6(1.4,1.8)	1.3(1.2,1.4)
<p05>=0.6(0.4,0.8)	0.5(0.3,0.7)	0.4(0.2,0.6)	0.8(0.5,1.0)	0.7(0.5,0.9)

Precipitation [%] (ann)	(DJF)	(MAM)	(JJA)	(SON)
<x>=-0.4	7.8	-0.2	-9.9	-2
<s>=1.5	2.7	2.8	3.7	3.1
<med>=-0.3	7.9	0.8	-10.1	-2.0
<p95>=2.1(1.3,2.9)	12.2(10.7,13.6)	4.4(2.9,5.9)	-3.8(-5.7,-1.9)	3.1(1.5,4.7)
<p50>=-0.4(-1.0,0.1)	7.8(6.9,8.7)	-0.2(-1.1,0.8)	-9.9(-11.2,-8.7)	-2.0(-3.0,-0.9)
<p05>=-3.0(-3.8,-2.2)	3.3(2.0,4.7)	-4.7(-6.2,-3.2)	-16.0(-17.9,-13.9)	-7.0(-8.7,-5.4)



Moldova

Temperature[°C] (ann)	(DJF)	(MAM)	(JJA)	(SON)
<x>=1.5	1.5	1.3	1.7	1.5
<s>=0.4	0.4	0.4	0.5	0.4
<med>=1.5	1.5	1.2	1.7	1.4
<p95>=2.1(1.9,2.3)	2.2(2.0,2.4)	1.9(1.7,2.1)	2.6(2.3,2.9)	2.1(1.9,2.2)
<p50>=1.5(1.4,1.6)	1.5(1.4,1.7)	1.3(1.2,1.4)	1.7(1.6,1.9)	1.5(1.3,1.6)
<p05>=0.9(0.7,1.1)	0.9(0.7,1.1)	0.7(0.5,0.9)	0.9(0.6,1.2)	0.9(0.7,1.1)

Precipitation [%] (ann)	(DJF)	(MAM)	(JJA)	(SON)
<x>=-1.7	3.5	0.9	-8.7	-2.3
<s>=3.2	4.4	3.8	5.3	3.2
<med>=-1.7	4.9	0.8	-10.2	-2.9
<p95>=3.5(1.9,5.3)	10.7(8.4,13.1)	7.1(5.1,9.2)	0.1(-2.7,3.0)	3.0(1.3,4.7)
<p50>=-1.7(-2.7,-0.6)	3.5(2.0,5.0)	0.9(-0.4,2.1)	-8.7(-10.5,-6.9)	-2.3(-3.4,-1.2)
<p05>=-6.9(-8.5,-5.3)	-3.6(-5.9,-1.3)	-5.4(-7.4,-3.4)	-17.5(-20.3,-14.8)	-7.7(-9.4,-5.9)



Netherlands

Temperature[°C] (ann)	(DJF)	(MAM)	(JJA)	(SON)
<x>=1.1	1.0	0.9	1.2	1.2
<s>=0.3	0.3	0.3	0.3	0.3
<med>=1.1	0.9	0.9	1.2	1.2
<p95>=1.5(1.4,1.7)	1.4(1.3,1.6)	1.4(1.2,1.5)	1.7(1.6,1.9)	1.7(1.5,1.8)
<p50>=1.1(1.0,1.2)	1.0(0.9,1.1)	0.9(0.8,1.0)	1.2(1.1,1.3)	1.2(1.1,1.3)
<p05>=0.7(0.5,0.8)	0.5(0.4,0.7)	0.5(0.4,0.6)	0.8(0.6,0.9)	0.8(0.6,0.9)

Precipitation [%] (ann)	(DJF)	(MAM)	(JJA)	(SON)
<x>=0.4	7.7	2.1	-9.8	-0.9
<s>=1.3	3.3	2.3	3.7	3.1
<med>=0.6	7.2	1.7	-10.6	-0.9
<p95>=2.6(1.9,3.2)	13.2(11.5,14.9)	5.9(4.7,7.2)	-3.7(-5.7,-1.7)	4.2(2.5,5.8)
<p50>=0.4(-0.1,0.8)	7.7(6.6,8.8)	2.1(1.3,2.9)	-9.8(-11.1,-8.6)	-0.9(-1.9,0.2)
<p05>=-1.8(-2.5,-1.1)	2.2(0.4,3.9)	-1.7(-2.9,-0.4)	-16.0(-17.8,-14.0)	-5.9(-7.6,-4.3)



Norway

Temperature[°C] (ann)	(DJF)	(MAM)	(JJA)	(SON)
South				
<x>=1.1	1.1	1.1	1.0	1.3
<s>=0.3	0.3	0.3	0.3	0.3
<med>=1.1	1.0	1.1	1.0	1.3
<p95>=1.6(1.4,1.7)	1.5(1.4,1.7)	1.7(1.5,1.9)	1.5(1.4,1.7)	1.8(1.6,1.9)
<p50>=1.1(1.0,1.2)	1.1(1.0,1.2)	1.1(1.0,1.3)	1.0(0.9,1.1)	1.3(1.2,1.4)
<p05>=0.7(0.6,0.8)	0.7(0.5,0.8)	0.6(0.4,0.8)	0.6(0.4,0.7)	0.8(0.7,1.0)
North				
<x>=1.3	1.3	1.3	0.9	1.4
<s>=0.3	0.3	0.4	0.3	0.4
<med>=1.2	1.2	1.3	0.9	1.4
<p95>=1.8(1.6,2.0)	1.9(1.7,2.1)	2.0(1.8,2.3)	1.4(1.2,1.6)	2.1(1.9,2.3)
<p50>=1.3(1.1,1.4)	1.3(1.2,1.4)	1.3(1.2,1.5)	0.9(0.8,1.0)	1.4(1.3,1.6)
<p05>=0.7(0.6,0.9)	0.8(0.6,1.0)	0.7(0.4,0.9)	0.4(0.3,0.6)	0.8(0.6,1.1)

Precipitation[%] (ann)	(DJF)	(MAM)	(JJA)	(SON)
South				
<x>=3.5	7.0	6.3	-2.4	3.8
<s>=2.1	3.5	3.4	3.3	2.8
<med>=3.1	6.6	6.0	-2.6	3.8
<p95>=7.0(5.8,8.1)	12.7(10.8,14.5)	11.8(10.0,13.7)	3.2(1.4,4.9)	8.3(6.9,9.8)
<p50>=3.5(2.8,4.3)	7.0(5.8,8.1)	6.3(5.1,7.5)	-2.4(-3.5,-1.2)	3.8(2.9,4.8)
<p05>=0.1(-1.0,1.2)	1.2(-0.7,3.0)	0.8(-1.1,2.5)	-7.9(-9.6,-6.1)	-0.7(-2.2,0.7)
North				
<x>=4.2	-0.1	7.0	5.6	6.2
<s>=5.1	7.1	7.5	2.0	5.3
<med>=2.3	-1.9	4.6	5.2	3.8
<p95>=12.5(9.5,15.5)	11.5(7.4,15.5)	19.3(15.1,23.7)	8.9(7.7,10.0)	14.9(11.8,17.9)
<p50>=4.2(2.3,6.2)	-0.1(-2.7,2.5)	7.0(4.2,9.9)	5.6(4.8,6.3)	6.2(4.3,8.2)
<p05>=-4.1(-7.0,-1.1)	-11.7(-15.8,-7.6)	-5.3(-9.6,-0.9)	2.3(1.1,3.5)	-2.4(-5.4,0.7)



Poland

Temperature[°C] (ann)	(DJF)	(MAM)	(JJA)	(SON)
<x>=1.3	1.3	1.1	1.3	1.4
<s>=0.3	0.3	0.3	0.4	0.3
<med>=1.2	1.3	1.1	1.2	1.4
<p95>=1.8(1.7,2.0)	1.8(1.7,2.0)	1.6(1.5,1.8)	2.0(1.8,2.2)	2.0(1.8,2.1)
<p50>=1.3(1.2,1.4)	1.3(1.2,1.4)	1.1(1.0,1.3)	1.3(1.2,1.4)	1.4(1.3,1.5)
<p05>=0.8(0.6,0.9)	0.8(0.7,1.0)	0.6(0.5,0.8)	0.6(0.4,0.8)	0.8(0.7,1.0)

Precipitation [%] (ann)	(DJF)	(MAM)	(JJA)	(SON)
<x>=0.7	6	3.2	-4	-1.1
<s>=2.1	3.5	2.5	4.9	2.5
<med>=0.8	6.3	2.9	-4.7	-0.9
<p95>=4.1(3.0,5.2)	11.8(10.0,13.7)	7.3(5.9,8.6)	4.1(1.5,6.7)	3.0(1.6,4.3)
<p50>=0.7(0.0,1.4)	6.0(4.7,7.2)	3.2(2.3,4.0)	-4.0(-5.6,-2.3)	-1.1(-2.0,-0.3)
<p05>=-2.6(-3.8,-1.5)	0.2(-1.7,2.0)	-1.0(-2.3,0.4)	-12.0(-14.6,-9.4)	-5.3(-6.7,-3.9)



Portugal

Temperature[°C] (ann)	(DJF)	(MAM)	(JJA)	(SON)
<x>=1.3	1.0	1.2	1.7	1.3
<s>=0.4	0.3	0.4	0.5	0.4
<med>=1.2	0.9	1.1	1.6	1.2
<p95>=1.9(1.7,2.1)	1.4(1.3,1.6)	1.9(1.7,2.1)	2.4(2.2,2.7)	2.0(1.7,2.2)
<p50>=1.3(1.1,1.4)	1.0(0.8,1.1)	1.2(1.0,1.3)	1.7(1.5,1.8)	1.3(1.2,1.4)
<p05>=0.6(0.4,0.8)	0.5(0.3,0.6)	0.4(0.2,0.7)	0.9(0.6,1.1)	0.6(0.4,0.9)

Precipitation [%] (ann)	(DJF)	(MAM)	(JJA)	(SON)
<x>=-6.1	1.5	-11.6	-19	-9.2
<s>=2.7	3.6	5.6	6.8	3.5
<med>=-6.0	0.5	-10.9	-18.9	-9.3
<p95>=-1.6(-3.0,-0.1)	7.5(5.6,9.4)	-2.4(-5.3,0.5)	-7.9(-11.5,-4.1)	-3.6(-5.4,-1.7)
<p50>=-6.1(-7.0,-5.2)	1.5(0.2,2.8)	-11.6(-13.5,-9.7)	-19.0(-21.3,-16.6)	-9.2(-10.4,-8.1)
<p05>=-10.6(-12.1,-9.2)	-4.4(-6.3,-2.5)	-20.8(-23.9,-8.0)	-30.1(-33.7,-26.8)	-14.9(-16.7,-13.2)



Romania

Temperature[°C] (ann)	(DJF)	(MAM)	(JJA)	(SON)
<x>=1.5	1.4	1.2	1.7	1.4
<s>=0.3	0.4	0.3	0.5	0.3
<med>=1.4	1.4	1.2	1.8	1.4
<p95>=2.0(1.8,2.1)	2.1(1.9,2.3)	1.7(1.5,1.8)	2.5(2.3,2.7)	1.9(1.7,2.0)
<p50>=1.5(1.3,1.6)	1.4(1.3,1.6)	1.2(1.1,1.3)	1.7(1.6,1.9)	1.4(1.3,1.5)
<p05>=0.9(0.8,1.1)	0.8(0.6,1.0)	0.8(0.6,0.9)	1.0(0.7,1.2)	1.0(0.8,1.1)

Precipitation [%] (ann)	(DJF)	(MAM)	(JJA)	(SON)
<x>=-2.2	3.4	-0.2	-9.6	-2.9
<s>=2.2	3.5	2.9	5.5	2.4
<med>=-2.0	3.2	-0.7	-8.3	-3.8
<p95>=1.4(0.2,2.5)	9.2(7.3,11.1)	4.6(3.0,6.2)	-0.5(-3.4,2.4)	1.0(-0.2,2.3)
<p50>=-2.2(-2.9,-1.4)	3.4(2.2,4.6)	-0.2(-1.2,0.8)	-9.6(-11.4,-7.7)	-2.9(-3.7,-2.1)
<p05>=-5.8(-7.0,-4.6)	-2.4(-4.4,-0.6)	-4.9(-6.5,-3.5)	-18.7(-21.6,-15.8)	-6.9(-8.2,-5.6)



Serbia and Montenegro

Temperature[°C] (ann)	(DJF)	(MAM)	(JJA)	(SON)
<x>=1.4	1.4	1.2	1.8	1.4
<s>=0.4	0.4	0.3	0.6	0.3
<med>=1.4	1.3	1.1	1.8	1.4
<p95>=2.1(1.9,2.3)	2.0(1.8,2.3)	1.7(1.5,1.9)	2.8(2.5,3.0)	1.9(1.8,2.1)
<p50>=1.4(1.3,1.6)	1.4(1.2,1.5)	1.2(1.1,1.3)	1.8(1.7,2.0)	1.4(1.3,1.5)
<p05>=0.8(0.6,1.0)	0.7(0.5,0.9)	0.6(0.4,0.8)	0.9(0.6,1.2)	0.9(0.7,1.1)

Precipitation [%] (ann)	(DJF)	(MAM)	(JJA)	(SON)
<x>=-3.3	2.4	-2.6	-11.2	-3.3
<s>=2.4	3.2	3.5	6.3	2.1
<med>=-3.0	2.7	-2.5	-9.8	-3.8
<p95>=0.6(-0.6,1.8)	7.6(5.9,9.3)	3.2(1.3,5.1)	-0.9(-4.3,2.3)	0.1(-1.0,1.2)
<p50>=-3.3(-4.1,-2.5)	2.4(1.3,3.5)	-2.6(-3.8,-1.4)	-11.2(-13.4,-9.1)	-3.3(-4.0,-2.6)
<p05>=-7.2(-8.4,-6.0)	-2.9(-4.5,-1.2)	-8.4(-10.4,-6.6)	-21.5(-25.0,-18.1)	-6.7(-7.7,-5.6)



Slovakia

Temperature[°C] (ann)	(DJF)	(MAM)	(JJA)	(SON)
<x>=1.4	1.3	1.2	1.6	1.4
<s>=0.4	0.4	0.3	0.6	0.4
<med>=1.3	1.3	1.1	1.5	1.4
<p95>=2.0(1.8,2.2)	1.9(1.7,2.1)	1.7(1.6,1.9)	2.5(2.2,2.8)	2.0(1.8,2.2)
<p50>=1.4(1.2,1.5)	1.3(1.2,1.4)	1.2(1.1,1.3)	1.6(1.4,1.8)	1.4(1.3,1.6)
<p05>=0.7(0.5,0.9)	0.7(0.5,0.9)	0.6(0.4,0.8)	0.6(0.3,0.9)	0.8(0.6,1.0)

Precipitation [%] (ann)	(DJF)	(MAM)	(JJA)	(SON)
<x>=-0.6	7.5	1.3	-7.3	-2.5
<s>=2.4	4.4	3.0	5.8	2.2
<med>=-0.3	8.0	1.3	-7.2	-2.4
<p95>=3.3(2.0,4.5)	14.8(12.5,17.2)	6.2(4.6,7.8)	2.2(-1.0,5.2)	1.1(-0.1,2.3)
<p50>=-0.6(-1.4,0.2)	7.5(6.0,9.0)	1.3(0.3,2.3)	-7.3(-9.2,-5.3)	-2.5(-3.3,-1.8)
<p05>=-4.5(-5.6,-3.2)	0.3(-2.1,2.5)	-3.6(-5.1,-1.9)	-16.8(-19.9,-13.6)	-6.2(-7.4,-5.0)



Slovenia

Temperature[°C] (ann)	(DJF)	(MAM)	(JJA)	(SON)
<x>=1.4	1.2	1.1	1.7	1.4
<s>=0.3	0.3	0.3	0.4	0.3
<med>=1.3	1.3	1.1	1.8	1.4
<p95>=1.8(1.7,2.0)	1.7(1.6,1.9)	1.6(1.4,1.7)	2.4(2.2,2.7)	1.8(1.7,2.0)
<p50>=1.4(1.3,1.5)	1.2(1.1,1.3)	1.1(1.0,1.2)	1.7(1.6,1.9)	1.4(1.3,1.5)
<p05>=0.9(0.7,1.0)	0.8(0.6,0.9)	0.7(0.5,0.8)	1.0(0.8,1.2)	0.9(0.8,1.1)

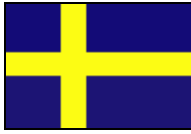
Precipitation [%] (ann)	(DJF)	(MAM)	(JJA)	(SON)
<x>=-0.6	10.3	0.0	-9.7	-0.9
<s>=1.9	5.3	3.7	5.1	2.5
<med>=-0.5	9.9	0.1	-9.3	-1.2
<p95>=2.6(1.6,3.7)	19.0(16.1,22.0)	6.1(4.2,8.1)	-1.3(-4.1,1.3)	3.3(1.9,4.6)
<p50>=-0.6(-1.3,0.0)	10.3(8.4,12.2)	0.0(-1.2,1.4)	-9.7(-11.5,-8.1)	-0.9(-1.7,0.1)
<p05>=-3.8(-4.8,-2.8)	1.7(-1.1,4.5)	-6.1(-8.1,-4.1)	-18.1(-20.9,-15.5)	-5.0(-6.4,-3.7)



Spain

Temperature[°C] (ann)	(DJF)	(MAM)	(JJA)	(SON)
North				
<x>=1.3	1.0	1.1	1.9	1.4
<s>=0.4	0.3	0.4	0.5	0.4
<med>=1.3	1.0	1.0	1.8	1.3
<p95>=2.0(1.8,2.2)	1.6(1.4,1.8)	1.8(1.6,2.0)	2.7(2.4,3.0)	2.0(1.8,2.2)
<p50>=1.3(1.2,1.5)	1.0(0.9,1.1)	1.1(1.0,1.3)	1.9(1.7,2.1)	1.4(1.2,1.5)
<p05>=0.7(0.5,0.9)	0.4(0.3,0.6)	0.5(0.2,0.7)	1.1(0.8,1.3)	0.7(0.5,0.9)
South				
<x>=1.4	1.1	1.3	1.8	1.4
<s>=0.4	0.3	0.4	0.5	0.4
<med>=1.4	1.1	1.3	1.8	1.4
<p95>=2.1(1.8,2.3)	1.6(1.4,1.8)	2.0(1.8,2.3)	2.6(2.3,2.8)	2.0(1.8,2.2)
<p50>=1.4(1.3,1.5)	1.1(1.0,1.2)	1.3(1.2,1.5)	1.8(1.6,2.0)	1.4(1.3,1.5)
<p05>=0.7(0.5,0.9)	0.5(0.4,0.7)	0.6(0.4,0.8)	1.0(0.8,1.3)	0.8(0.6,1.0)

Precipitation [%] (ann)	(DJF)	(MAM)	(JJA)	(SON)
North				
<x>=-5.7	1.9	-8.6	-14.4	-5.2
<s>=1.6	2.0	2.7	4.2	2.7
<med>=-5.7	1.9	-8.5	-13.9	-5.1
<p95>=-3.1(-4.0,-2.3)	5.2(4.2,6.3)	-4.1(-5.6,-2.7)	-7.4(-9.8,-5.1)	-0.7(-2.2,0.7)
<p50>=-5.7(-6.3,-5.2)	1.9(1.2,2.6)	-8.6(-9.6,-7.7)	-14.4(-15.9,-12.9)	-5.2(-6.1,-4.2)
<p05>=-8.4(-9.2,-7.5)	-1.4(-2.6,-0.3)	-13.1(-14.6,-11.7)	-21.4(-23.6,-19.0)	-9.7(-11.1,-8.2)
South				
<x>=-8.6	-2.4	-13.1	-15.1	-8.4
<s>=3.1	4.2	4.4	7.9	3.2
<med>=-9.1	-3.7	-13.0	-14.9	-8
<p95>=-3.4(-5.1,-1.8)	4.4(2.2,6.7)	-5.8(-8.1,-3.5)	-2.1(-6.2,2.2)	-3.1(-4.8,-1.4)
<p50>=-8.6(-9.7,-7.5)	-2.4(-3.8,-0.9)	-13.1(-14.6,-11.6)	-15.1(-17.7,-12.3)	-8.4(-9.5,-7.3)
<p05>=-13.7(-15.5,-12.0)	-9.2(-11.4,-6.9)	-20.3(-22.7,-17.9)	-28.0(-32.2,-23.9)	-13.6(-15.3,-11.9)



Sweden

Temperature[°C] (ann)	(DJF)	(MAM)	(JJA)	(SON)
South				
<x>=1.2	1.3	1.2	1.1	1.3
<s>=0.3	0.3	0.3	0.3	0.3
<med>=1.2	1.2	1.2	1.1	1.3
<p95>=1.6(1.5,1.8)	1.7(1.6,1.9)	1.7(1.5,1.8)	1.5(1.4,1.7)	1.8(1.7,2.0)
<p50>=1.2(1.1,1.3)	1.3(1.2,1.4)	1.2(1.1,1.3)	1.1(1.0,1.2)	1.3(1.2,1.4)
<p05>=0.8(0.7,0.9)	0.8(0.6,0.9)	0.8(0.6,0.9)	0.6(0.5,0.8)	0.9(0.7,1.0)
North				
<x>=1.3	1.5	1.4	1.0	1.5
<s>=0.3	0.3	0.4	0.2	0.3
<med>=1.2	1.4	1.4	1.0	1.5
<p95>=1.8(1.6,1.9)	2.1(1.9,2.3)	2.0(1.7,2.2)	1.3(1.2,1.5)	2.0(1.9,2.2)
<p50>=1.3(1.2,1.4)	1.5(1.4,1.7)	1.4(1.2,1.5)	1.0(0.9,1.1)	1.5(1.4,1.6)
<p05>=0.9(0.7,1.1)	1.0(0.8,1.2)	0.7(0.5,0.9)	0.6(0.5,0.8)	1.0(0.8,1.2)

Precipitation [%] (ann)	(DJF)	(MAM)	(JJA)	(SON)
South				
<x>=3.5	11.4	4.4	-2.1	2.4
<s>=1.5	3.7	1.9	3.3	3.3
<med>=3.5	11.2	4.5	-2.9	2.2
<p95>=5.9(5.1,6.7)	17.4(15.5,19.4)	7.5(6.5,8.5)	3.3(1.6,5.2)	7.9(6.1,9.6)
<p50>=3.5(3.0,4.0)	11.4(10.2,12.6)	4.4(3.7,5.0)	-2.1(-3.3,-1.0)	2.4(1.3,3.6)
<p05>=1.1(0.3,1.9)	5.4(3.3,7.2)	1.3(0.3,2.3)	-7.6(-9.3,-5.8)	-3.0(-4.7,-1.3)
North				
<x>=5.3	9.0	7.5	2.7	5.8
<s>=2.9	4.3	4.8	2.2	3.0
<med>=4.9	8.0	7.0	2.3	5.1
<p95>=10.1(8.4,11.8)	16.1(13.8,18.6)	15.4(12.6,18.3)	6.4(5.1,7.8)	10.7(8.9,12.5)
<p50>=5.3(4.3,6.4)	9.0(7.4,10.7)	7.5(5.8,9.3)	2.7(1.9,3.6)	5.8(4.6,6.9)
<p05>=0.6(-1.1,2.2)	1.9(-0.6,4.5)	-0.4(-3.3,2.4)	-0.9(-2.3,0.5)	0.8(-0.9,2.6)



Switzerland

Temperature[°C] (ann)	(DJF)	(MAM)	(JJA)	(SON)
<x>=1.4	1.2	1.2	1.7	1.4
<s>=0.4	0.4	0.4	0.4	0.3
<med>=1.3	1.2	1.1	1.7	1.4
<p95>=2.0(1.8,2.2)	1.8(1.6,2.0)	1.8(1.6,2.0)	2.5(2.2,2.7)	1.9(1.7,2.1)
<p50>=1.4(1.3,1.5)	1.2(1.1,1.3)	1.2(1.1,1.3)	1.7(1.6,1.9)	1.4(1.3,1.5)
<p05>=0.8(0.6,1.0)	0.6(0.4,0.8)	0.6(0.4,0.8)	1.0(0.8,1.3)	0.9(0.7,1.0)

Precipitation [%] (ann)	(DJF)	(MAM)	(JJA)	(SON)
<x>=-1.7	4.4	0.1	-8.1	-3.1
<s>=1.6	3.0	3.3	4.1	2.1
<med>=-1.3	4.2	1.0	-7.1	-3.5
<p95>=0.9(0.1,1.8)	9.3(7.7,10.9)	5.5(3.7,7.2)	-1.4(-3.5,0.7)	0.4(-0.8,1.5)
<p50>=-1.7(-2.2,-1.1)	4.4(3.4,5.4)	0.1(-1.1,1.2)	-8.1(-9.5,-6.7)	-3.1(-3.8,-2.3)
<p05>=-4.2(-5.1,-3.4)	-0.5(-2.1,1.0)	-5.4(-7.1,-3.6)	-14.8(-17.0,-12.6)	-6.6(-7.7,-5.4)



UK

Temperature[°C] (ann)	(DJF)	(MAM)	(JJA)	(SON)
<x>=0.9	0.7	0.8	1.0	1.0
<s>=0.2	0.2	0.3	0.3	0.2
<med>=0.8	0.6	0.7	1.0	1.0
<p95>=1.3(1.2,1.4)	1.1(1.0,1.2)	1.2(1.1,1.3)	1.5(1.3,1.6)	1.4(1.3,1.6)
<p50>=0.9(0.8,1.0)	0.7(0.6,0.8)	0.8(0.7,0.9)	1.0(1.0,1.1)	1.0(1.0,1.1)
<p05>=0.5(0.4,0.6)	0.3(0.2,0.4)	0.3(0.2,0.5)	0.6(0.5,0.8)	0.7(0.5,0.8)

Precipitation [%] (ann)	(DJF)	(MAM)	(JJA)	(SON)
<x>=0.6	6.5	1.3	-8.9	1.2
<s>=1.6	3.0	1.6	3.4	2.6
<med>=0.0	6.8	1.3	-8.9	0.7
<p95>=3.2(2.4,4.1)	11.5(9.9,13.0)	4.0(3.1,4.9)	-3.3(-5.1,-1.4)	5.5(4.2,6.9)
<p50>=0.6(0.0,1.1)	6.5(5.5,7.6)	1.3(0.8,1.9)	-8.9(-10.1,-7.8)	1.2(0.4,2.1)
<p05>=-2.1(-3.0,-1.2)	1.6(0.1,3.3)	-1.3(-2.2,-0.4)	-14.6(-16.4,-12.8)	-3.1(-4.5,-1.7)