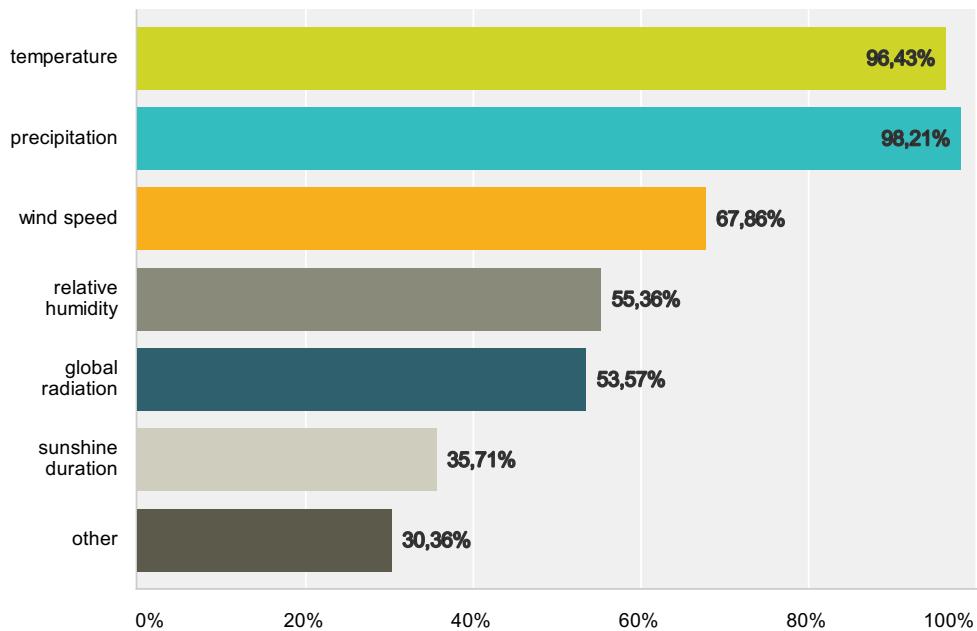


## Q1 What are the meteorological variables you usually work with ? (optimal case)

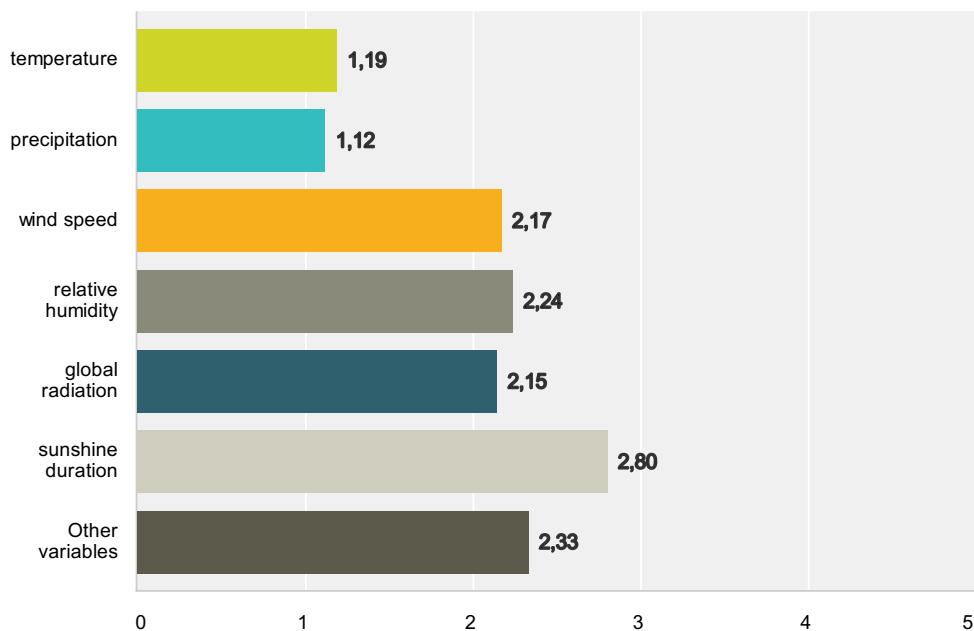
Beantwortet: 56 Übersprungen: 6



Antwortmöglichkeiten	Beantwortungen	
temperature	96,43%	54
precipitation	98,21%	55
wind speed	67,86%	38
relative humidity	55,36%	31
global radiation	53,57%	30
sunshine duration	35,71%	20
other Beantwortungen	30,36%	17
Befragte gesamt: 56		

## Q2 How important are these meteorological variables for your work?

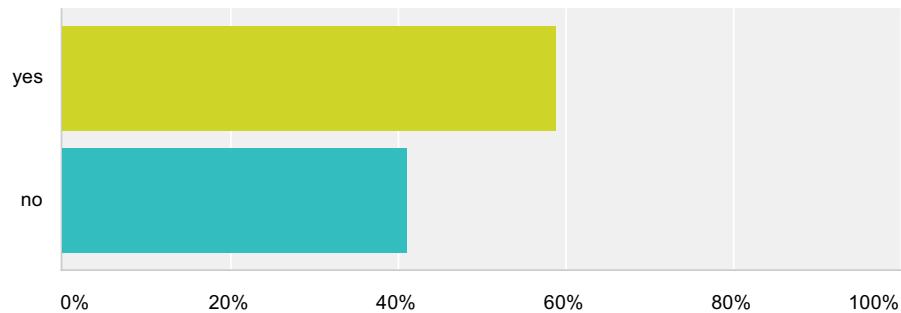
Beantwortet: 58 Übersprungen: 4



	very important	important	nice to have	unimportant	I don't know	Gesamt	Durchschnittliche Bewertung
temperature	84,48% 49	13,79% 8	0% 0	1,72% 1	0% 0	58	1,19
precipitation	87,93% 51	12,07% 7	0% 0	0% 0	0% 0	58	1,12
wind speed	24,53% 13	35,85% 19	33,96% 18	3,77% 2	1,89% 1	53	2,17
relative humidity	21,57% 11	35,29% 18	37,25% 19	3,92% 2	1,96% 1	51	2,24
global radiation	22% 11	44% 22	24% 12	6% 3	4% 2	50	2,15
sunshine duration	8,33% 4	25% 12	39,58% 19	22,92% 11	4,17% 2	48	2,80
Other variables	21,88% 7	21,88% 7	31,25% 10	9,38% 3	15,63% 5	32	2,33

**Q3 Do you make use of threshold indices like degree warming days, probability for precipitation exceeding 50mm/day or others?**

Beantwortet: 56 Übersprungen: 6



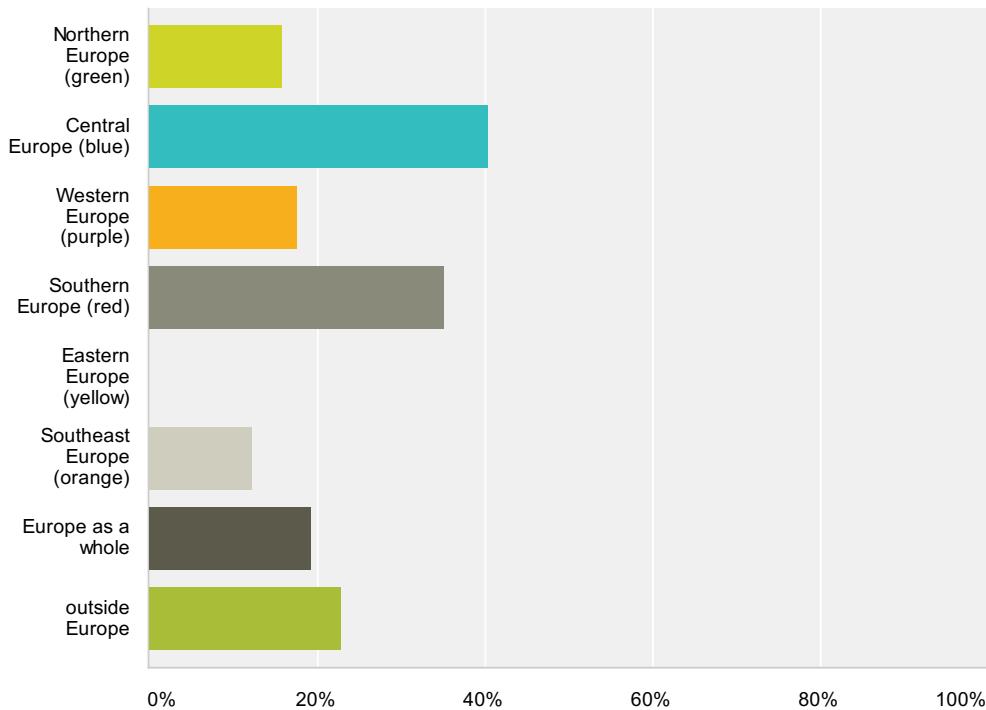
Antwortmöglichkeiten	Beantwortungen	
yes	58,93%	33
no	41,07%	23
Gesamt		56

**Q4 If yes, which threshold indices to do typically use?**

Beantwortet: 31 Übersprungen: 31

**Q5 What is your main region of interest?  
Please refer to the structure indicated by  
the adjoining figure.**

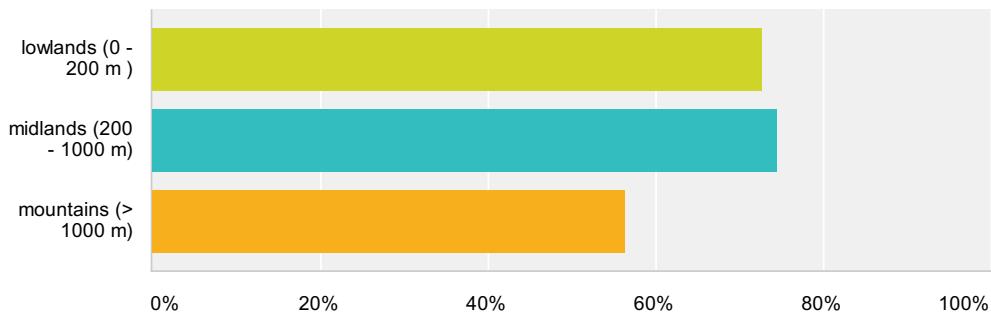
Beantwortet: 57 Übersprungen: 5



Antwortmöglichkeiten	Beantwortungen	
<b>Northern Europe (green)</b>	<b>15,79%</b>	9
<b>Central Europe (blue)</b>	<b>40,35%</b>	23
<b>Western Europe (purple)</b>	<b>17,54%</b>	10
<b>Southern Europe (red)</b>	<b>35,09%</b>	20
<b>Eastern Europe (yellow)</b>	<b>0%</b>	0
<b>Southeast Europe (orange)</b>	<b>12,28%</b>	7
<b>Europe as a whole</b>	<b>19,30%</b>	11
<b>outside Europe Beantwortungen</b>	<b>22,81%</b>	13
Befragte gesamt: 57		

## Q6 What is the elevation of your research region?

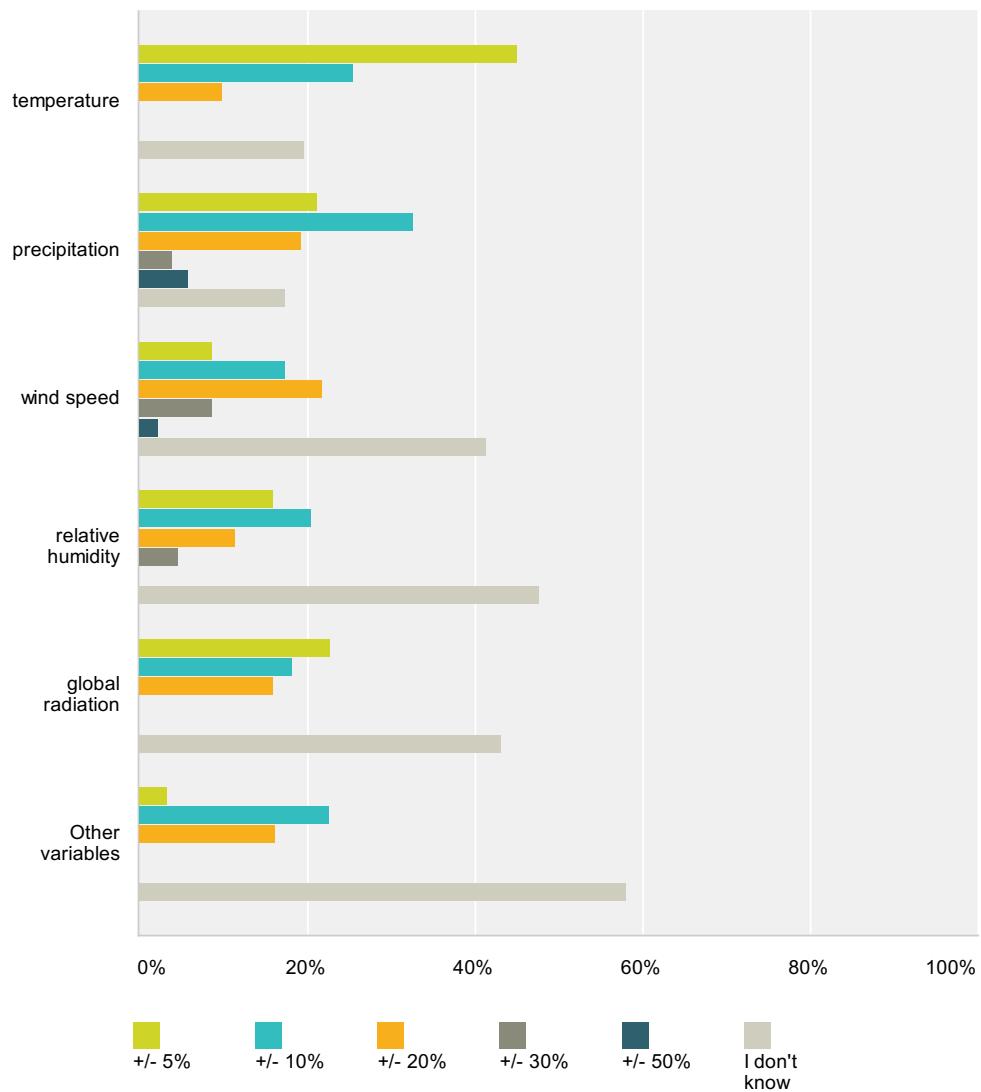
Beantwortet: 55 Übersprungen: 7



Antwortmöglichkeiten	Beantwortungen	
lowlands (0 - 200 m )	<b>72,73%</b>	40
midlands (200 - 1000 m)	<b>74,55%</b>	41
mountains (> 1000 m)	<b>56,36%</b>	31
Befragte gesamt: 55		

**Q7 What is the accuracy of the variables obtained from climate models you are currently working with or you would like to work with? (optimal case)**

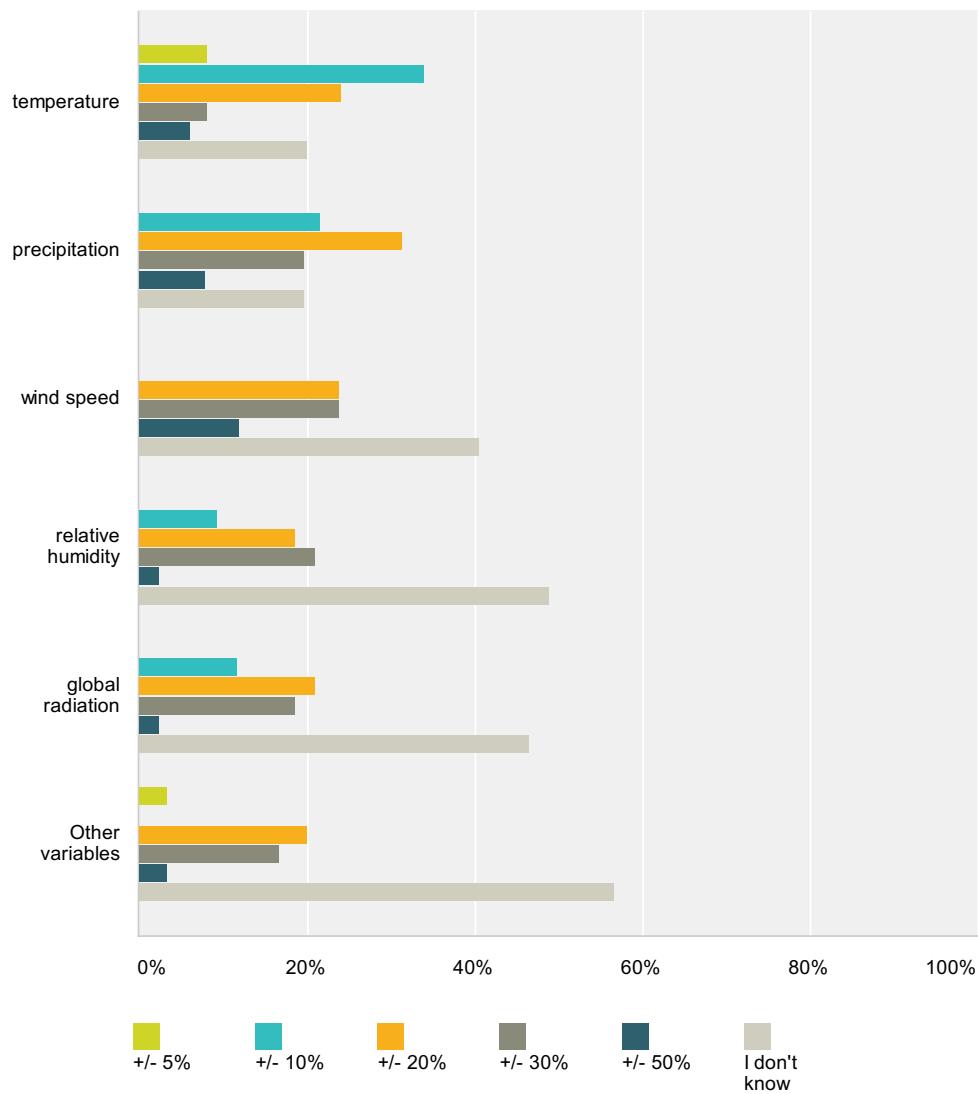
Beantwortet: 52 Übersprungen: 10



	+/undefined 5%	+/undefined 10%	+/undefined 20%	+/undefined 30%	+/undefined 50%	I don't know	Gesamt
temperature	45,10% 23	25,49% 13	9,80% 5	0% 0	0% 0	19,61% 10	51
precipitation	21,15% 11	32,69% 17	19,23% 10	3,85% 2	5,77% 3	17,31% 9	52
wind speed	8,70% 4	17,39% 8	21,74% 10	8,70% 4	2,17% 1	41,30% 19	46
relative humidity	15,91% 7	20,45% 9	11,36% 5	4,55% 2	0% 0	47,73% 21	44
global radiation	22,73% 10	18,18% 8	15,91% 7	0% 0	0% 0	43,18% 19	44
Other variables	3,23% 1	22,58% 7	16,13% 5	0% 0	0% 0	58,06% 18	31

**Q8 What is the worst accuracy of the variables obtained by climate models or observations you can still working with and receive reasonable results? (minimum requirements)**

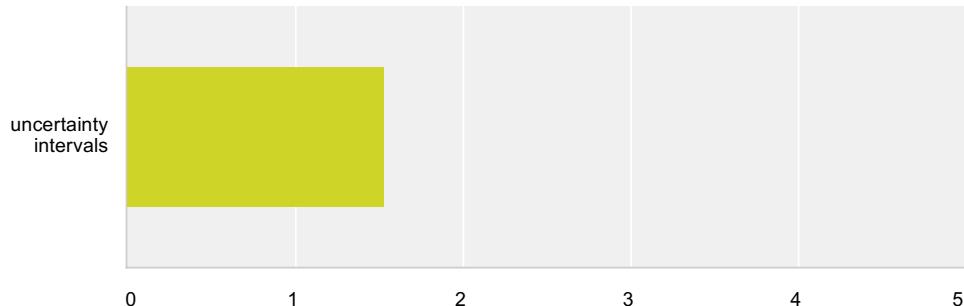
Beantwortet: 51 Übersprungen: 11



	+/undefined 5%	+/undefined 10%	+/undefined 20%	+/undefined 30%	+/undefined 50%	I don't know	Gesamt
temperature	8% 4	34% 17	24% 12	8% 4	6% 3	20% 10	50
precipitation	0% 0	21,57% 11	31,37% 16	19,61% 10	7,84% 4	19,61% 10	51
wind speed	0% 0	0% 0	23,81% 10	23,81% 10	11,90% 5	40,48% 17	42
relative humidity	0% 0	9,30% 4	18,60% 8	20,93% 9	2,33% 1	48,84% 21	43
global radiation	0% 0	11,63% 5	20,93% 9	18,60% 8	2,33% 1	46,51% 20	43
Other variables	3,33% 1	0% 0	20% 6	16,67% 5	3,33% 1	56,67% 17	30

**Q9 How useful are uncertainties of climate data expressed e.g. in uncertainty intervals (example to the right)?**

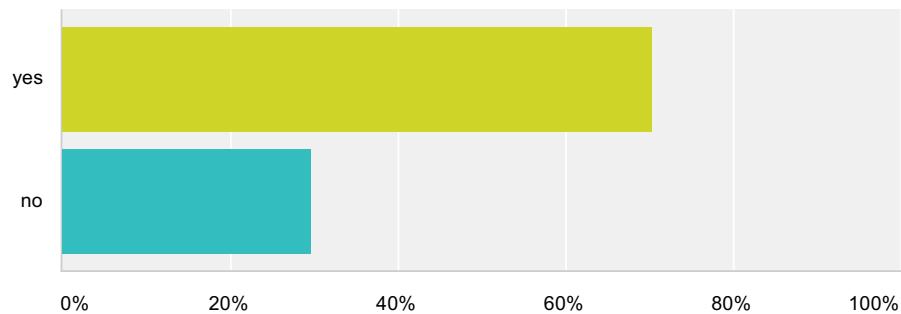
Beantwortet: 54 Übersprungen: 8



	very usefull	usefull	not usefull	confusing	don't know	Gesamt	Durchschnittliche Bewertung
uncertainty intervals	50% 27	44,44% 24	3,70% 2	0% 0	1,85% 1	54	1,53

## Q10 Do you actually use uncertainty intervals for your work?

Beantwortet: 54 Übersprungen: 8



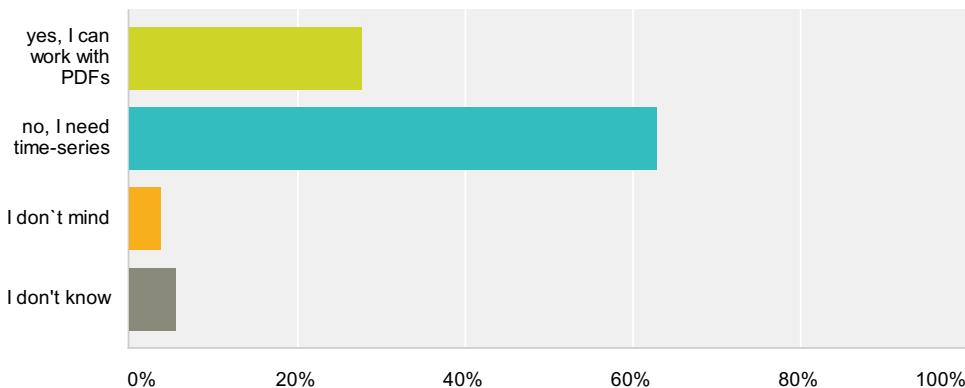
Antwortmöglichkeiten	Beantwortungen	
yes	<b>70,37%</b>	38
no	<b>29,63%</b>	16
Gesamt		54

**Q11 If yes, how would you like uncertainties  
to be expressed? What do you use?**

Beantwortet: 35 Übersprungen: 27

## Q12 Do probability distributions suffice your research needs?

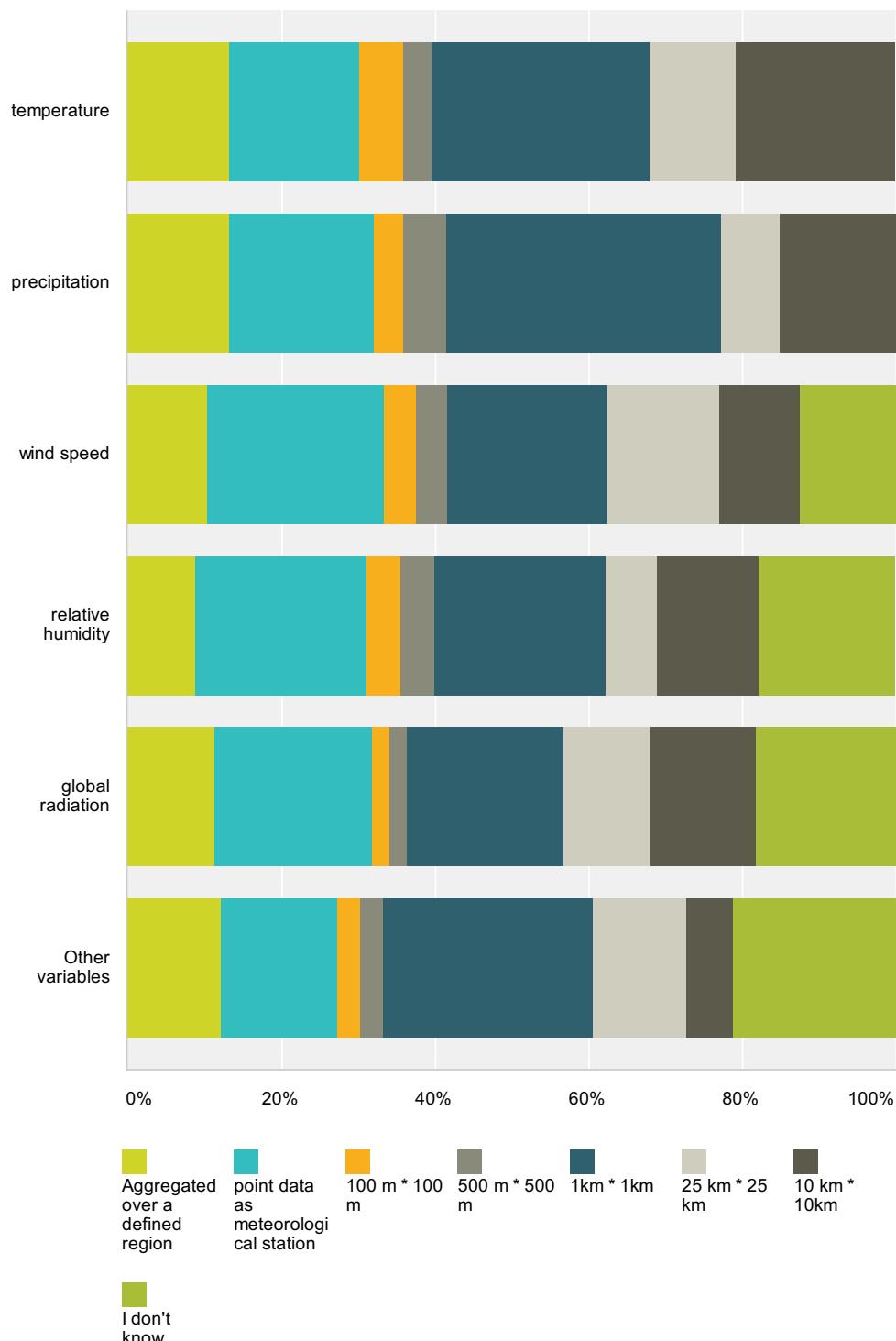
Beantwortet: 54 Übersprungen: 8



Antwortmöglichkeiten	Beantwortungen	
yes, I can work with PDFs	27,78%	15
no, I need time-series	62,96%	34
I don't mind	3,70%	2
I don't know	5,56%	3
Gesamt		54

## Q13 What spatial resolution of climate data do you need?

Beantwortet: 54 Übersprungen: 8



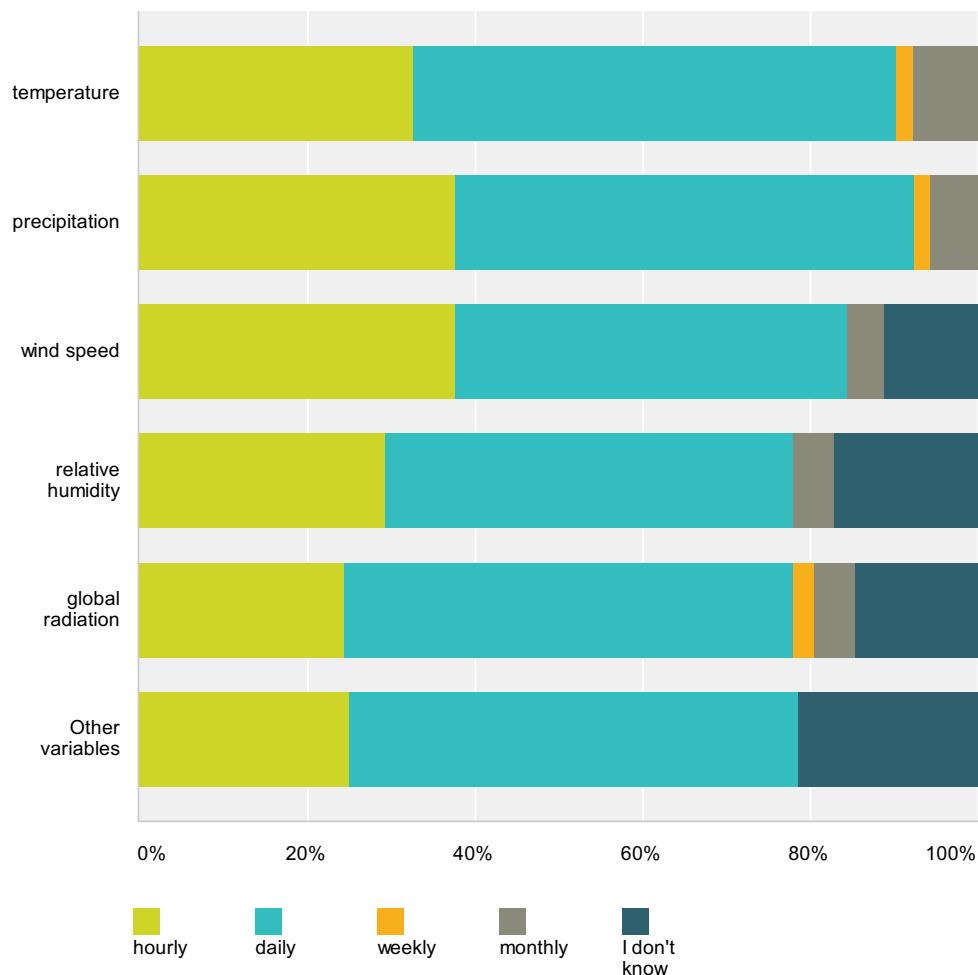
	Aggregated over a defined region	point data as meteorological station	100 m * 100 m	500 m * 500 m	1km * 1km	25 km * 25 km	10 km * 10km	I don't know	Gesamt
temperature	13,21% 7	16,98% 9	5,66% 3	3,77% 2	28,30% 15	11,32% 6	20,75% 11	0% 0	53
precipitation	13,21% 7	18,87% 10	3,77% 2	5,66% 3	35,85% 19	7,55% 4	15,09% 8	0% 0	53

Questionnaire on end-user needs for downscaled climate scenario data

<b>wind speed</b>	<b>10,42%</b> 5	<b>22,92%</b> 11	<b>4,17%</b> 2	<b>4,17%</b> 2	<b>20,83%</b> 10	<b>14,58%</b> 7	<b>10,42%</b> 5	<b>12,50%</b> 6	48
<b>relative humidity</b>	<b>8,89%</b> 4	<b>22,22%</b> 10	<b>4,44%</b> 2	<b>4,44%</b> 2	<b>22,22%</b> 10	<b>6,67%</b> 3	<b>13,33%</b> 6	<b>17,78%</b> 8	45
<b>global radiation</b>	<b>11,36%</b> 5	<b>20,45%</b> 9	<b>2,27%</b> 1	<b>2,27%</b> 1	<b>20,45%</b> 9	<b>11,36%</b> 5	<b>13,64%</b> 6	<b>18,18%</b> 8	44
<b>Other variables</b>	<b>12,12%</b> 4	<b>15,15%</b> 5	<b>3,03%</b> 1	<b>3,03%</b> 1	<b>27,27%</b> 9	<b>12,12%</b> 4	<b>6,06%</b> 2	<b>21,21%</b> 7	33

## Q14 What temporal resolution of climate data do you need?

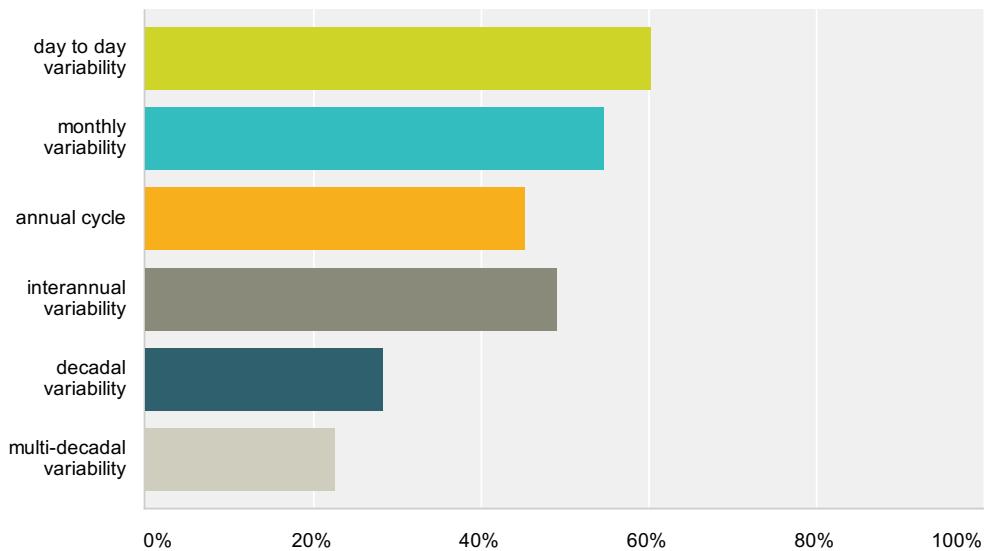
Beantwortet: 53 Übersprungen: 9



	hourly	daily	weekly	monthly	I don't know	Gesamt
temperature	32,69% 17	57,69% 30	1,92% 1	7,69% 4	0% 0	52
precipitation	37,74% 20	54,72% 29	1,89% 1	5,66% 3	0% 0	53
wind speed	37,78% 17	46,67% 21	0% 0	4,44% 2	11,11% 5	45
relative humidity	29,27% 12	48,78% 20	0% 0	4,88% 2	17,07% 7	41
global radiation	24,39% 10	53,66% 22	2,44% 1	4,88% 2	14,63% 6	41
Other variables	25% 7	53,57% 15	0% 0	0% 0	21,43% 6	28

## Q15 What time scales of variability are you interested in?

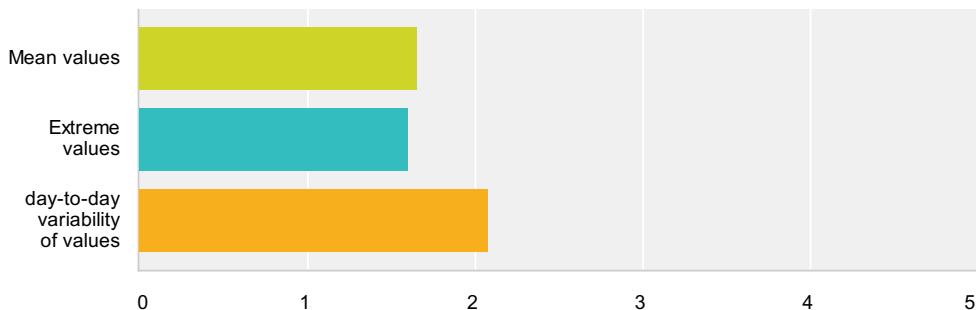
Beantwortet: 53 Übersprungen: 9



Antwortmöglichkeiten	Beantwortungen	
day to day variability	60,38%	32
monthly variability	54,72%	29
annual cycle	45,28%	24
interannual variability	49,06%	26
decadal variability	28,30%	15
multi-decadal variability	22,64%	12
Befragte gesamt: 53		

## Q16 How important for your research are?

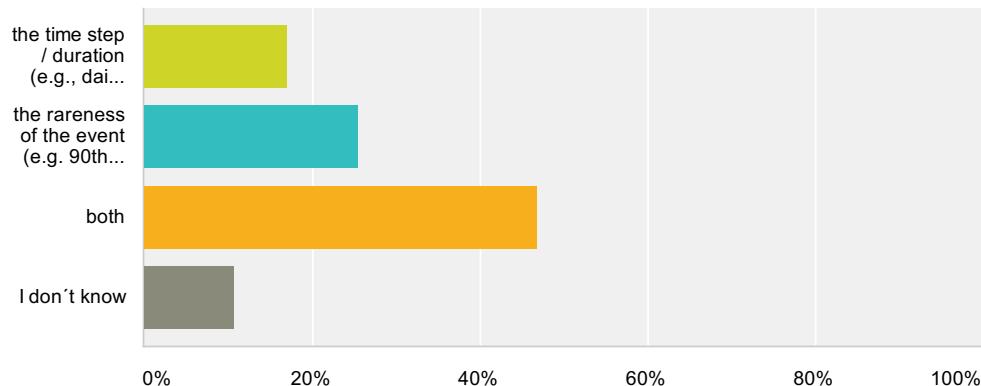
Beantwortet: 54 Übersprungen: 8



	very important	important	less important	unimportant	Gesamt	Durchschnittliche Bewertung
Mean values	44,23% 23	46,15% 24	9,62% 5	0% 0	52	1,65
Extreme values	58,49% 31	24,53% 13	15,09% 8	1,89% 1	53	1,60
day-to-day variability of values	26% 13	44% 22	26% 13	4% 2	50	2,08

**Q17 If extreme values are important for your work are those extreme values mainly related to**

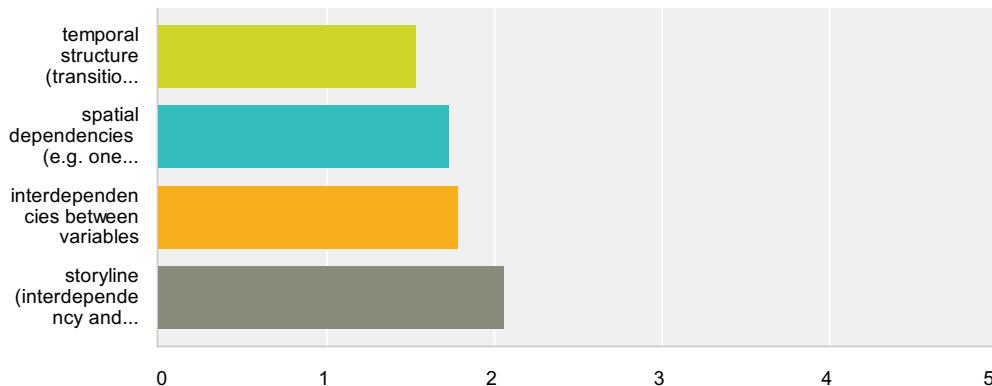
Beantwortet: 47 Übersprungen: 15



Antwortmöglichkeiten	Beantwortungen	
the time step / duration (e.g., daily event, 5 day event, month for a heat wave or similar)	17,02%	8
the rareness of the event (e.g. 90th percentiliy, 95th percentile, 10 year return level, 100 year return level)	25,53%	12
both	46,81%	22
I don't know	10,64%	5
Gesamt		47

## Q18 How important for your research are spatial and temporal dependencies of variables?

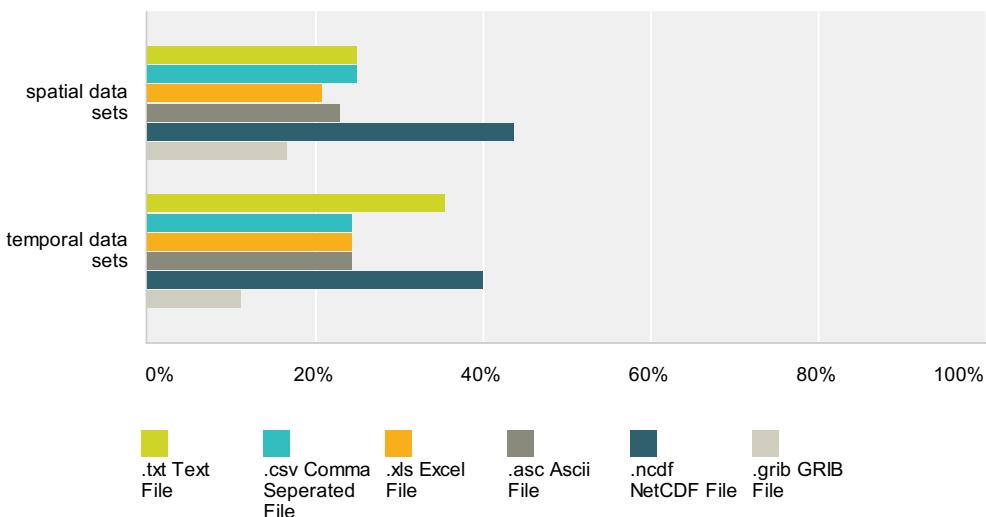
Beantwortet: 53 Übersprungen: 9



	very important	important	less important	unimportant	Gesamt	Durchschnittliche Bewertung
temporal structure (transition between wet/dry day, persistence of wet/dry days, etc)	57,69% 30	32,69% 17	7,69% 4	1,92% 1	52	1,54
spatial dependencies (e.g. one region wet, adjacent region dry)	41,51% 22	45,28% 24	11,32% 6	1,89% 1	53	1,74
interdependencies between variables	38,46% 20	46,15% 24	13,46% 7	1,92% 1	52	1,79
storyline (interdependency and temporal structure (rain-on-snow))	29,79% 14	38,30% 18	27,66% 13	4,26% 2	47	2,06

## Q19 What are your preferred data format you would like to receive climate data?

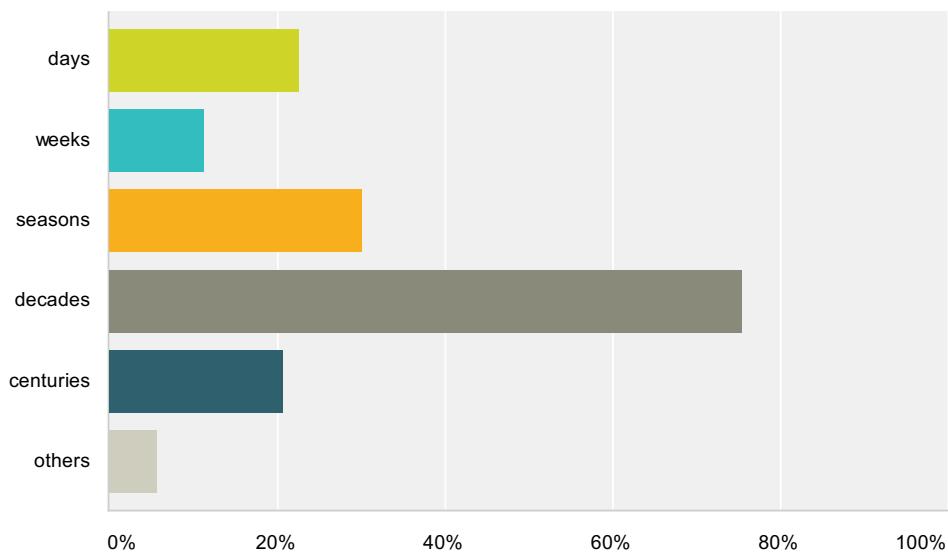
Beantwortet: 49 Übersprungen: 13



	.txt Text File	.csv Comma Separated File	.xls Excel File	.asc Ascii File	.ncdf NetCDF File	.grib GRIB File	Befragte gesamt
spatial data sets	25% 12	25% 12	20,83% 10	22,92% 11	43,75% 21	16,67% 8	48
temporal data sets	35,56% 16	24,44% 11	24,44% 11	24,44% 11	40% 18	11,11% 5	45

## Q20 What is your planning horizon or your simulation period?

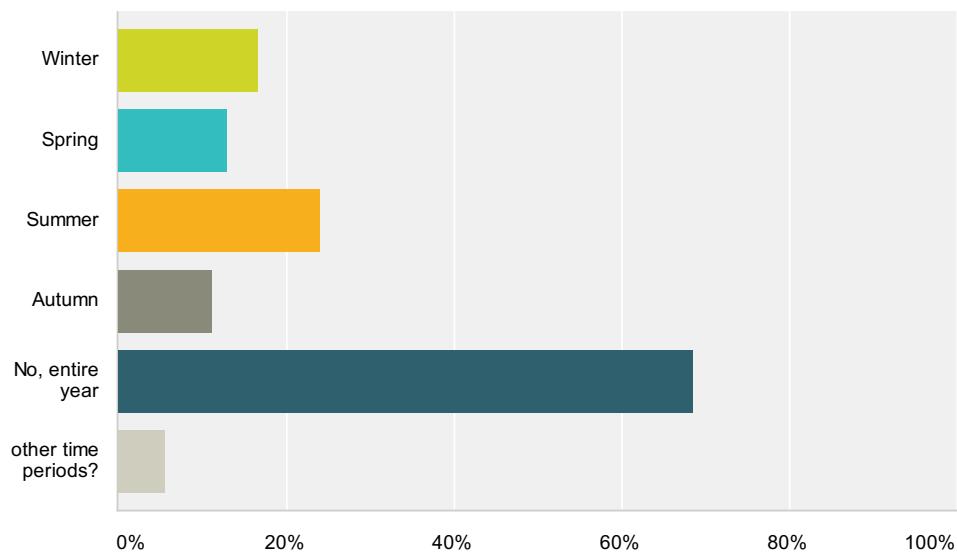
Beantwortet: 53 Übersprungen: 9



Antwortmöglichkeiten	Beantwortungen	
days	<b>22,64%</b>	12
weeks	<b>11,32%</b>	6
seasons	<b>30,19%</b>	16
decades	<b>75,47%</b>	40
centuries	<b>20,75%</b>	11
others <b>Beantwortungen</b>	<b>5,66%</b>	3
Befragte gesamt: 53		

## Q21 Is there a season you are interested in most?

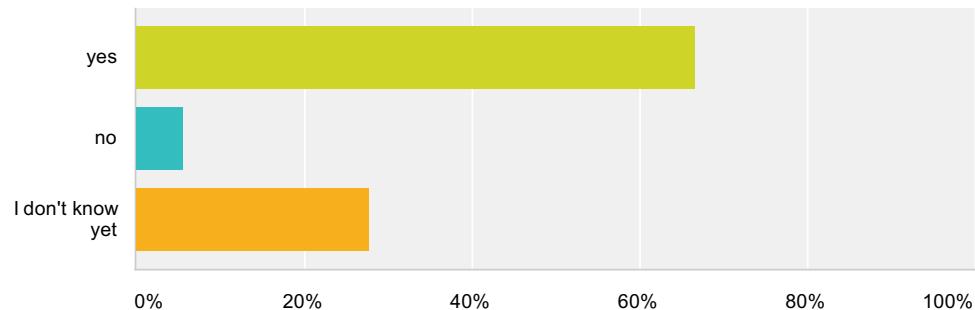
Beantwortet: 54 Übersprungen: 8



Antwortmöglichkeiten	Beantwortungen	
Winter	16,67%	9
Spring	12,96%	7
Summer	24,07%	13
Autumn	11,11%	6
No, entire year	68,52%	37
other time periods? <b>Beantwortungen</b>	5,56%	3
Befragte gesamt: 54		

**Q22 Do you just need data or would you also appreciate to get some guidance along with the data**

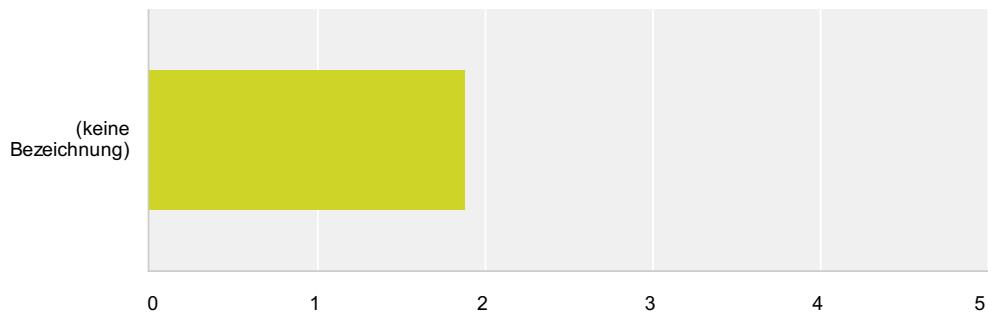
Beantwortet: 54 Übersprungen: 8



Antwortmöglichkeiten	Beantwortungen	
yes	<b>66,67%</b>	36
no	<b>5,56%</b>	3
I don't know yet	<b>27,78%</b>	15
Gesamt		54

## Q23 How well do you think downscaling can meet your needs?

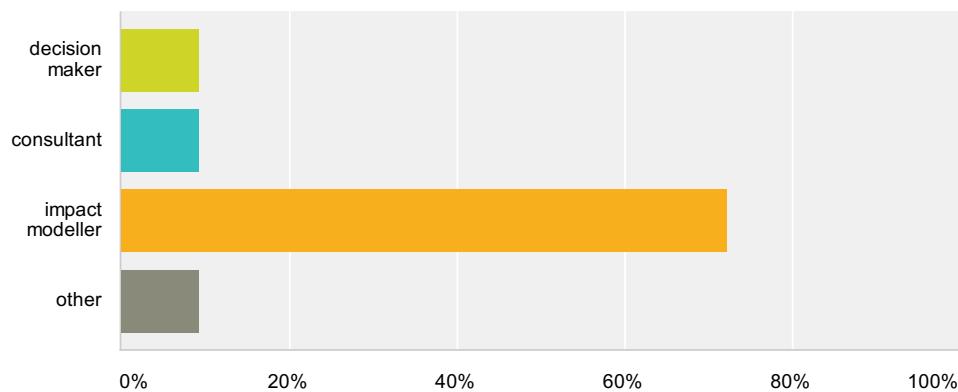
Beantwortet: 50 Übersprungen: 12



	<b>very well</b>	<b>well</b>	<b>more or less</b>	<b>not realy</b>	<b>not at all</b>	Gesamt	Durchschnittliche Bewertung
<b>(keine Bezeichnung)</b>	<b>40%</b> 20	<b>32%</b> 16	<b>28,00%</b> 14	<b>0%</b> 0	<b>0%</b> 0	50	1,88

## Q24 What kind of end-user would you consider yourself?

Beantwortet: 54 Übersprungen: 8

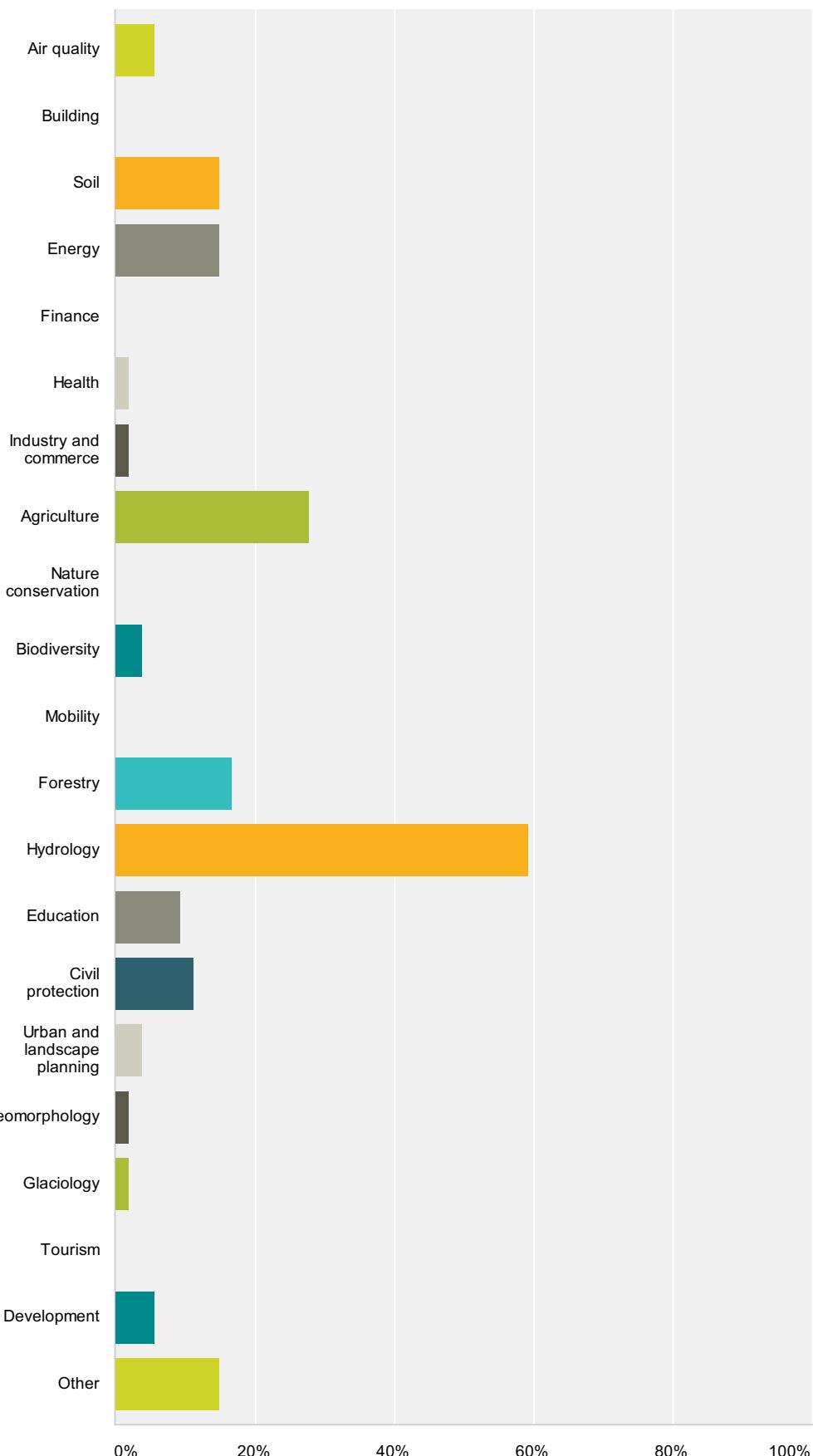


Antwortmöglichkeiten	Beantwortungen	
decision maker	9,26%	5
consultant	9,26%	5
impact modeller	72,22%	39
other <b>Beantwortungen</b>	9,26%	5
Gesamt		54

## **Q25 What is your main field of work?**

Beantwortet: 54 Übersprungen: 8

Questionnaire on end-user needs for downscaled climate scenario data



Antwortmöglichkeiten	Beantwortungen	
Air quality	5,56%	3
Befragte gesamt: 54		

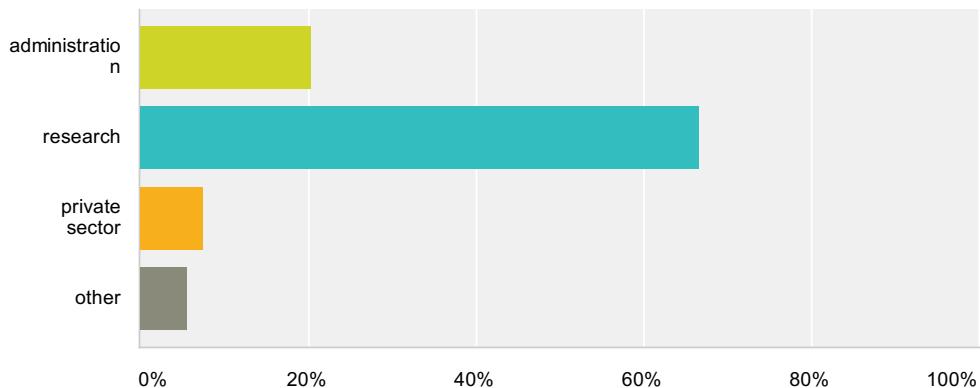
Questionnaire on end-user needs for downscaled climate scenario data

<b>Building</b>	<b>0%</b>	0
<b>Soil</b>	<b>14,81%</b>	8
<b>Energy</b>	<b>14,81%</b>	8
<b>Finance</b>	<b>0%</b>	0
<b>Health</b>	<b>1,85%</b>	1
<b>Industry and commerce</b>	<b>1,85%</b>	1
<b>Agriculture</b>	<b>27,78%</b>	15
<b>Nature conservation</b>	<b>0%</b>	0
<b>Biodiversity</b>	<b>3,70%</b>	2
<b>Mobility</b>	<b>0%</b>	0
<b>Forestry</b>	<b>16,67%</b>	9
<b>Hydrology</b>	<b>59,26%</b>	32
<b>Education</b>	<b>9,26%</b>	5
<b>Civil protection</b>	<b>11,11%</b>	6
<b>Urban and landscape planning</b>	<b>3,70%</b>	2
<b>Geomorphology</b>	<b>1,85%</b>	1
<b>Glaciology</b>	<b>1,85%</b>	1
<b>Tourism</b>	<b>0%</b>	0
<b>Development</b>	<b>5,56%</b>	3
<b>Other Beantwortungen</b>	<b>14,81%</b>	8

Befragte gesamt: 54

## Q26 What is your affiliation?

Beantwortet: 54 Übersprungen: 8



Antwortmöglichkeiten	Beantwortungen	
administration	<b>20,37%</b>	11
research	<b>66,67%</b>	36
private sector	<b>7,41%</b>	4
other Beantwortungen	<b>5,56%</b>	3
Gesamt		54

**Q27 If you want to be informed on the proceeding of VALUE please enter your Email-adress:**

Beantwortet: 29 Übersprungen: 33