CliSci2008

A Survey of the Perspectives of Climate Scientists Concerning Climate Science and Climate Change

Conducted by:

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Sampling

Group A = Authors from top 10 ISI impact climate journals for last 10 years

Group B = List of authors used in Oreskes' analysis of consensus

Group C = List of members of major climate research institutes taken from WWW

Sample/response

	Group A	Group B	Group C	Total
Original mail-out list	1042	802	837	2681
Valid sample	546	732	780	2058
Responses	148	76	149	373
Response Rate %	27.2	10.39	19.1	18.2

Presentation of Data

Data is presented as descriptive statistics, histograms with normal density plots, and box plots, where applicable.

Descriptive statistics include number of observations, means and standard deviation.

Histograms are presented as percent of observations.

Boxplots were chosen as a mode of presentations as they illustrate the median, spread and data values, providing a visual assessment of the degree of consensus. Lowest and highest values are indicated by 'whiskers' extending from the boxes. The boxes contain the 50% of total values falling between the 25^{th} and 75^{th} percentile, meaning that 50% of the cases have values within the box, 25% have values larger than the upper boundary and 25% have values less than the lower boundary. The length of the box indicates how much spread there is in the data values within the middle 50 percentile. If, for example, one box is much longer than another then the data values in the longer box have more variability. The length of the box is considered to suggest scientific consensus and the location of the box to represent scientific assessment. The median is in the middle of the box only if the distribution is symmetric. If the median line is closer to the left of the box than to the right of the box the data are skewed in that direction, meaning that there are more cases towards that end of the distribution. If the median is closer to the rightof the box then tail of the distribution is towards those values.

All variables are listed in the original order of the survey.

Sample Demographics

1. The country in which you conduct most of your work is

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Australia	22	5.9	5.9	5.9
	Austria	3	.8	.8	6.7
	Belgium	1	.3	.3	6.9
	Brazil	4	1.1	1.1	8.0
	Canada	14	3.7	3.7	11.7
	China	3	.8	.8	12.5
	Croatia	2	.5	.5	13.1
	Cyprus	1	.3	.3	13.3
	Czech Republic	3	.8	.8	14.1
	Denmark	1	.3	.3	14.4
	Estonia	1	.3	.3	14.7
	Finland	5	1.3	1.3	16.0
	France	5	1.3	1.3	17.3
	Germany	61	16.3	16.3	33.6
	Global	1	.3	.3	33.9
	Greece	1	.3	.3	34.1
	Hungary	1	.3	.3	34.4
	India	1	.3	.3	34.7
	Israel	2	.5	.5	35.2
	Italy	10	2.7	2.7	37.9
	Japan	6	1.6	1.6	39.5
	Mexico	1	.3	.3	39.7
	Netherlands	7	1.9	1.9	41.6
	New Zealand	1	.3	.3	41.9
	Norway	4	1.1	1.1	42.9
	Poland	1	.3	.3	43.2
	Russia	1	.3	.3	43.5
	Serbia	1	.3	.3	43.7
	South Africa	1	.3	.3	44.0
	Spain	2	.5	.5	44.5
	Sri Lanka	1	.3	.3	44.8
	Sweden	2	.5	.5	45.3
	Switzerland	1	.3	.3	45.6
	UK	57	15.2	15.2	60.8
	USA	147	39.2	39.2	100.0
	Total	375	100.0	100.0	

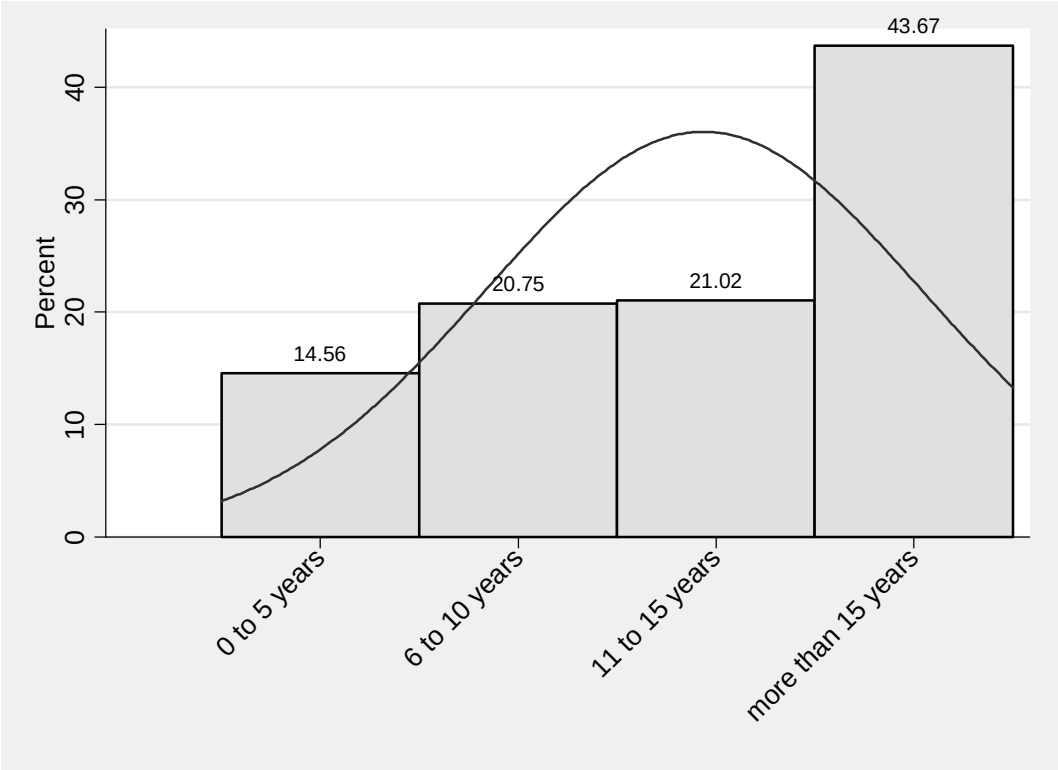
2. Gender

- Male
- Female

v2	Freq.	Percent	Cum.	
Male	303	80.80	80.80	
Female	70	18.67	99.47	
Missing		2	0.53	100.00
Total	375	100.00		

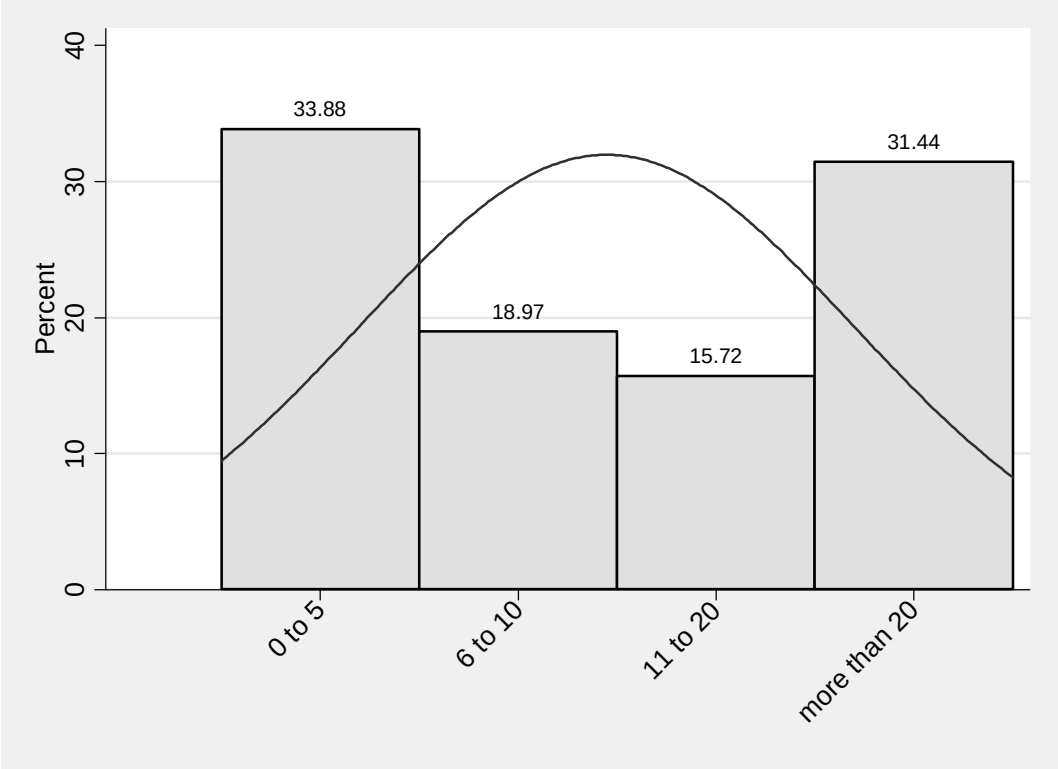
3. The approximate number of years that you have worked in climate science is

- 0 to 5 years
- 6 to 10 years
- 11 to 15 years
- more than 15



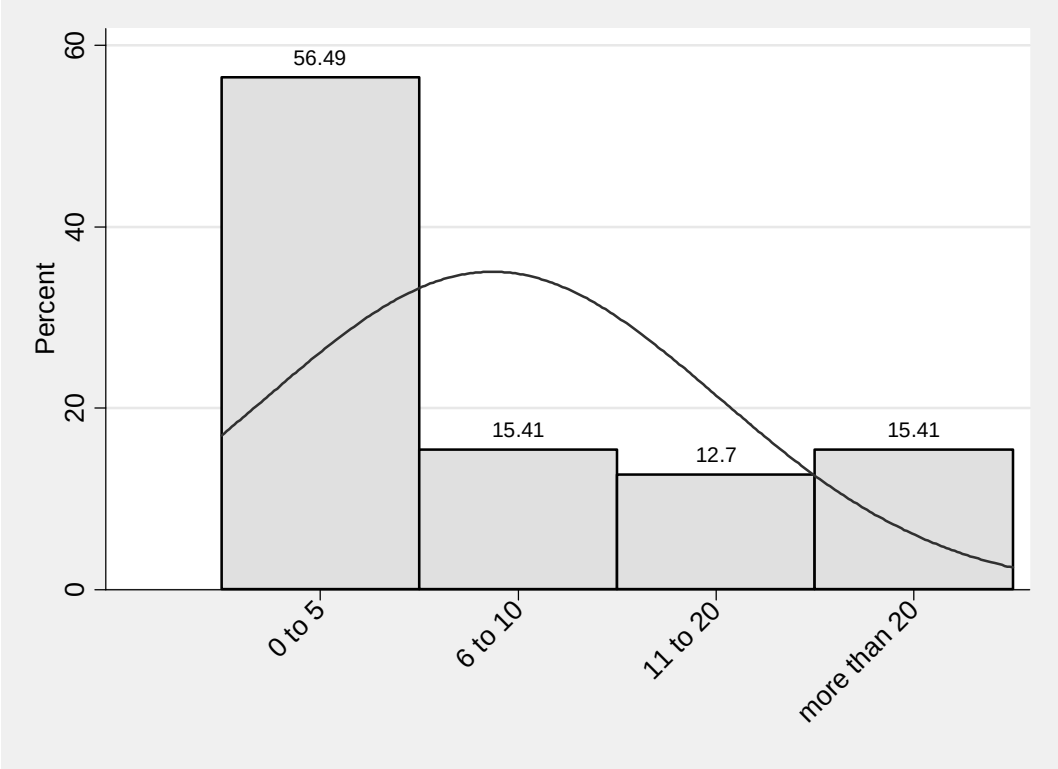
4. In about how many *peer reviewed* scholarly articles on climate change related issues have you been listed as an author?

- 0 to 5
- 6 to 10
- 11 to 20
- more than 20



5. In about how many *non-peer reviewed* reports on climate change related issues have you been listed as an author?

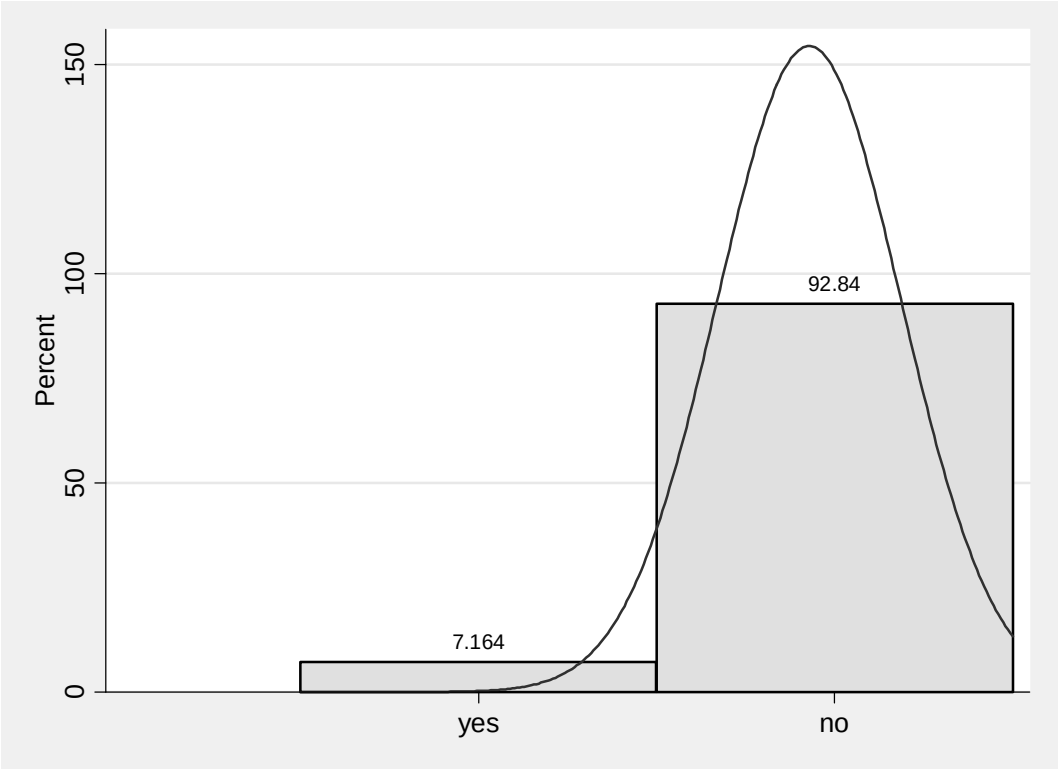
- 0 to 5
- 6 to 10
- 11 to 20
- more than 20



6. Have you ever been an IPCC

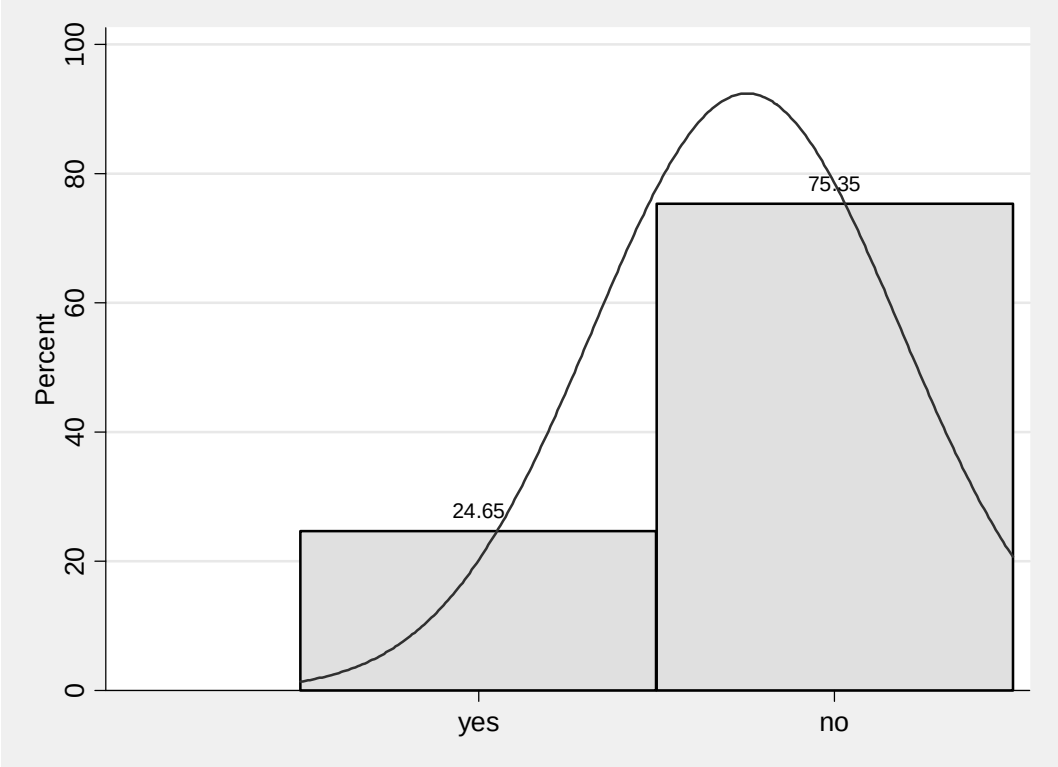
6a lead author

- yes
- no



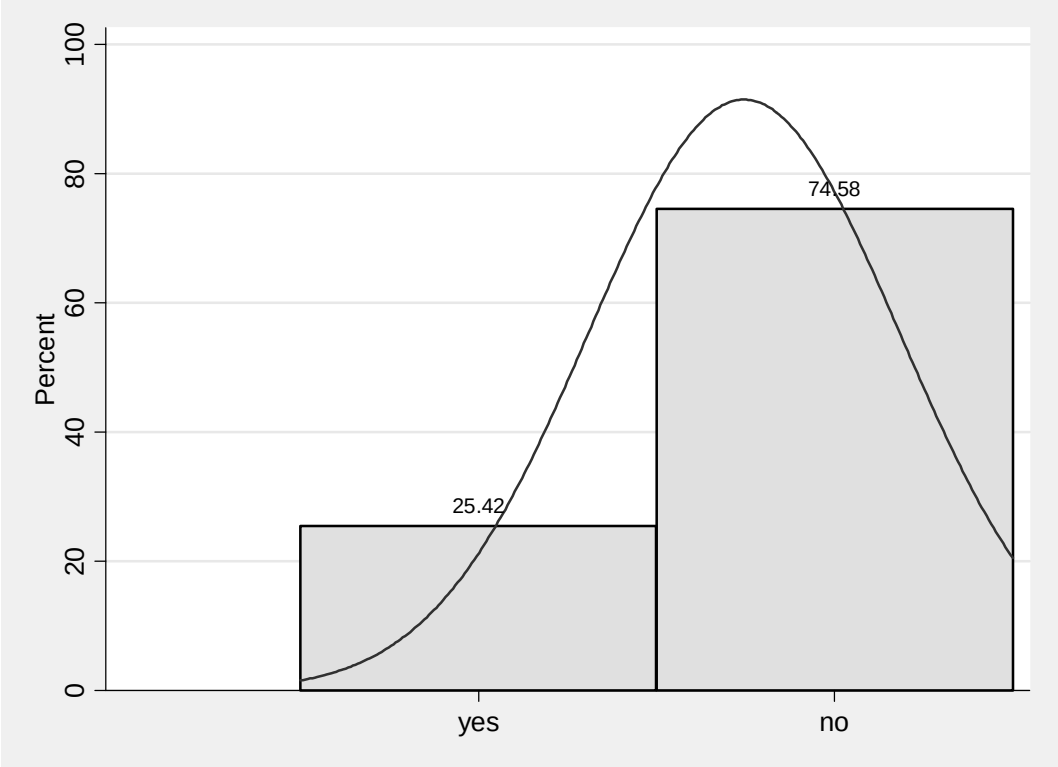
6b contributing author

- yes
- no



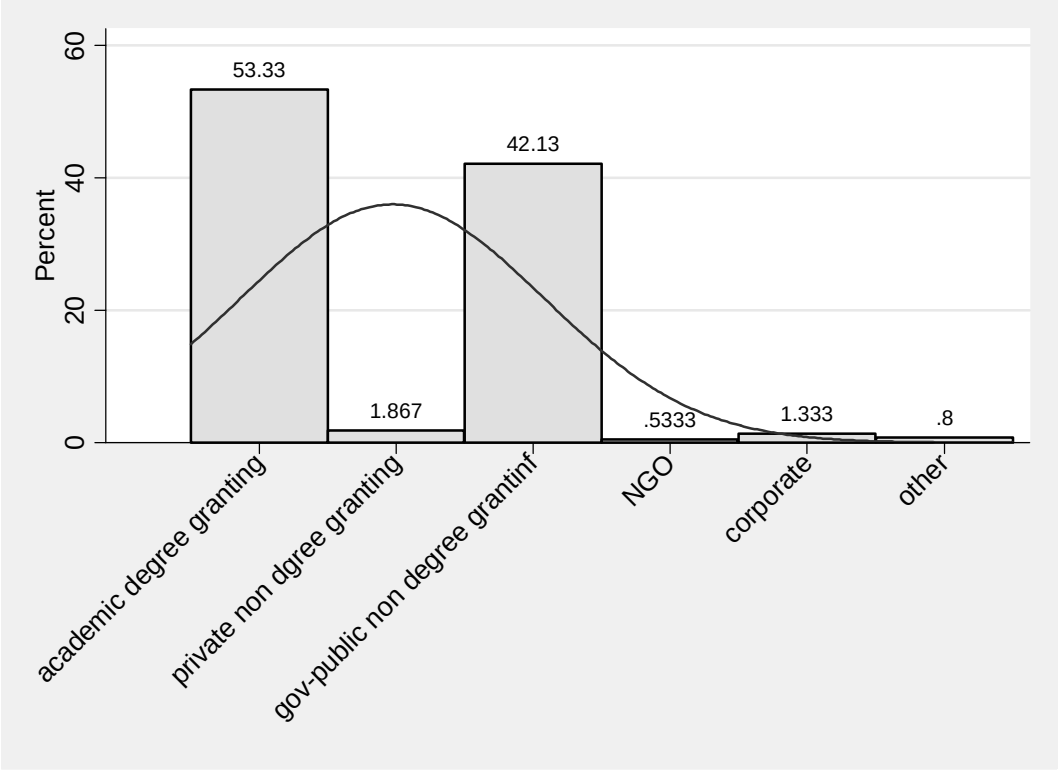
6c reviewer

- yes
- no



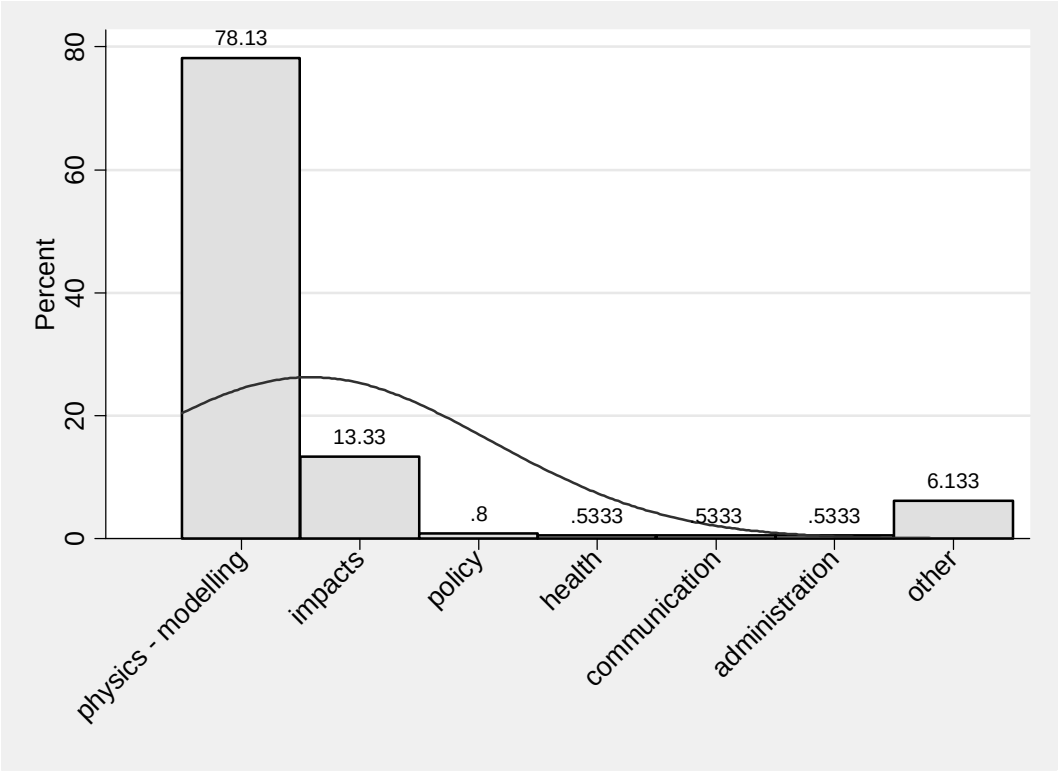
7. The institute in which you work could best be described as

- academic/degree granting
- privately funded research institute/non-degree granting
- government/public funded research institute/non-degree granting
- NGO
- corporate
- other



8. The nature of your work is best described as being concerned with

- physics of the climate system (modelling, model development, data acquisition, theory development, etc.)
- impacts of climate change (ecological, economic, social, etc.)
- climate change policy analysis
- climate change and health
- climate change communication
- science administration
- other



The State of Climate Science

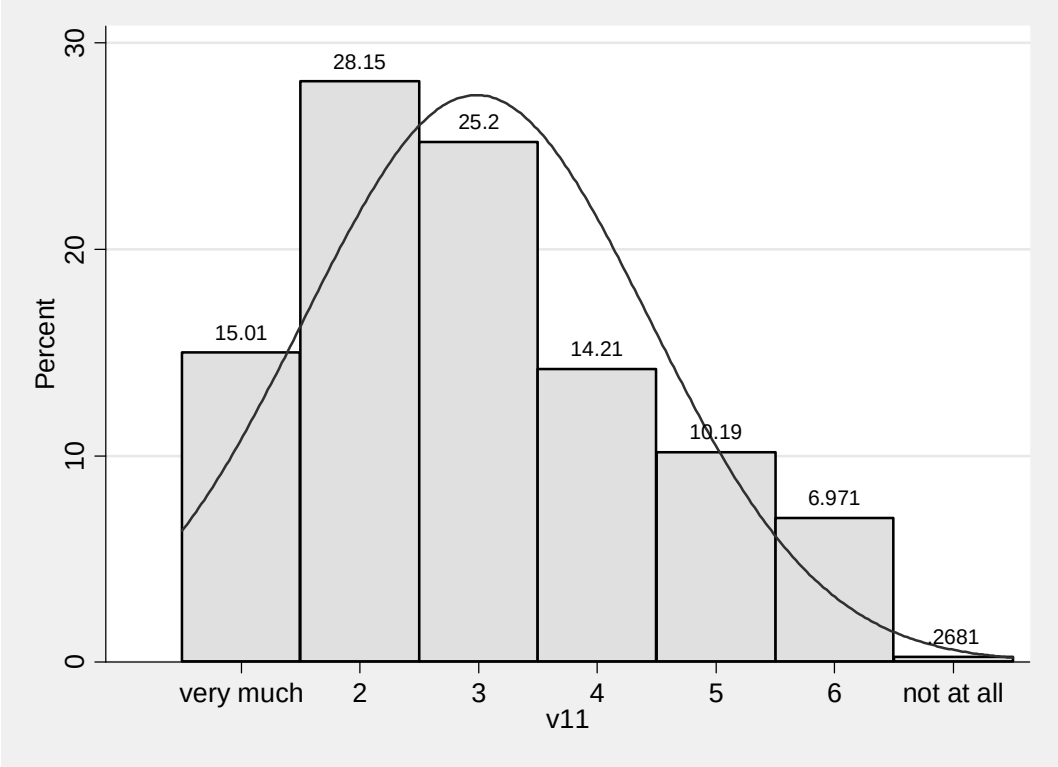
In this section we would like to determine if there are areas in climate science that you perceive to be especially in need of increased research support and/or efforts.

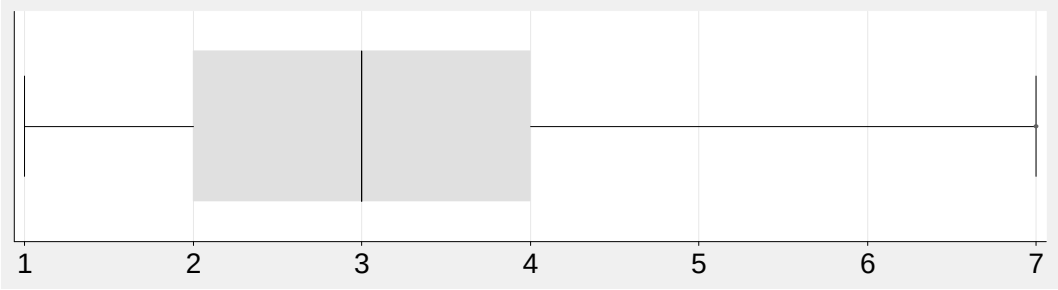
'Climate change', unless otherwise specified, refers to recent, on going and possible future change (1850-2100) of climatic conditions, irrespective of cause.

9. How much do you think the direction of research in the climate change sciences has been influenced by external politics in the last 10 years?

very much 1 2 3 4 5 6 7 not at all

Variable	Obs	Mean	Std. Dev.	Min	Max
Q11	**373**	**2.983914**	**1.451643**	**1**	**7**

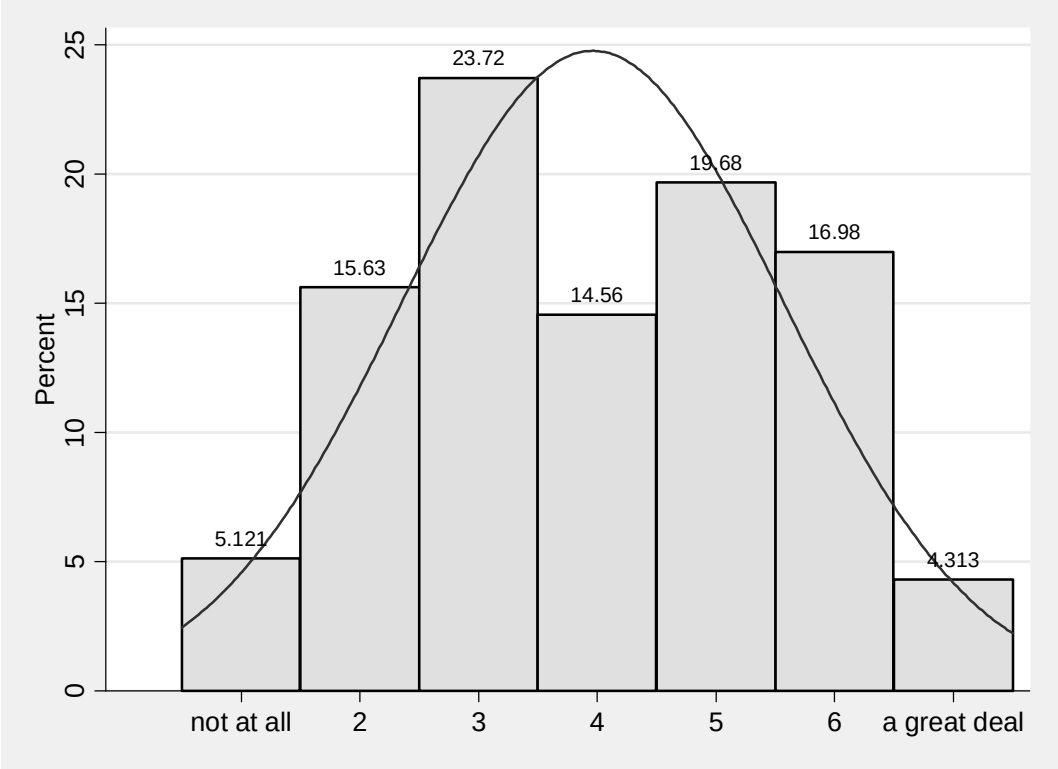


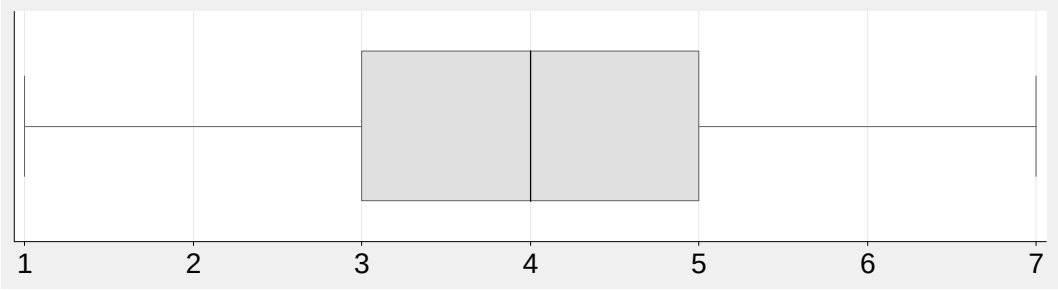


10. To what degree do you think climate science has remained a value-neutral science?

Not at all 1 2 3 4 5 6 7 a great deal

Variable	Obs	Mean	Std. Dev.	Min	Max
Q12	371	3.962264	1.610331	1	7





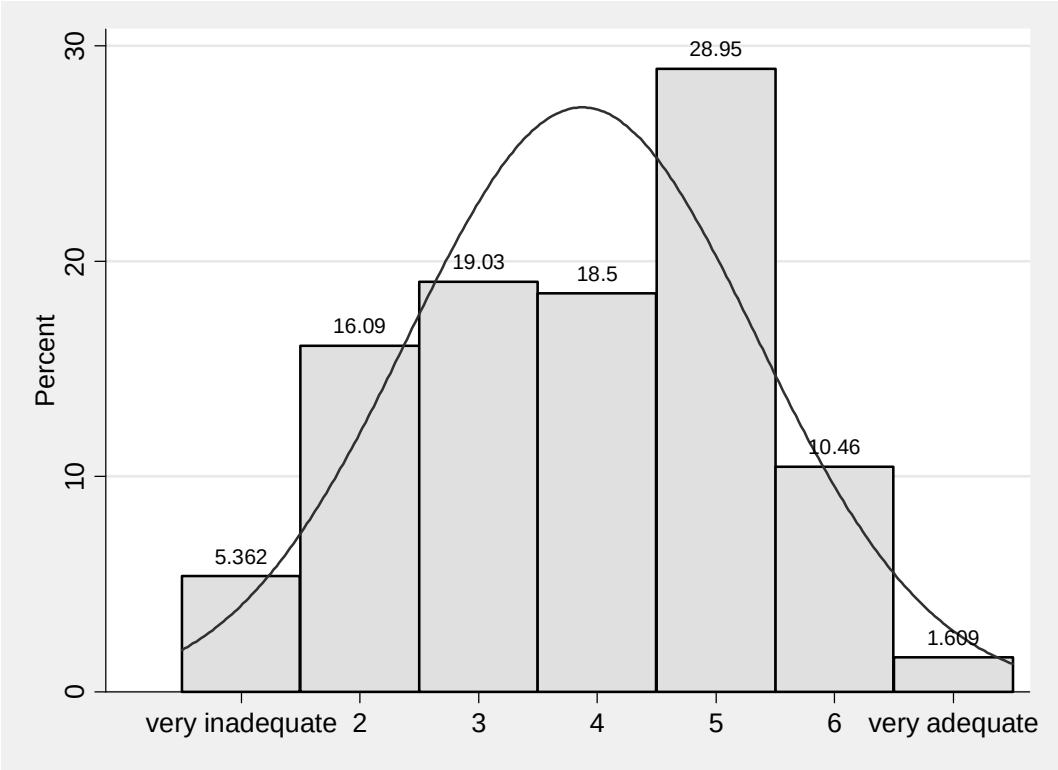
11. Concerning the current state of climate science:

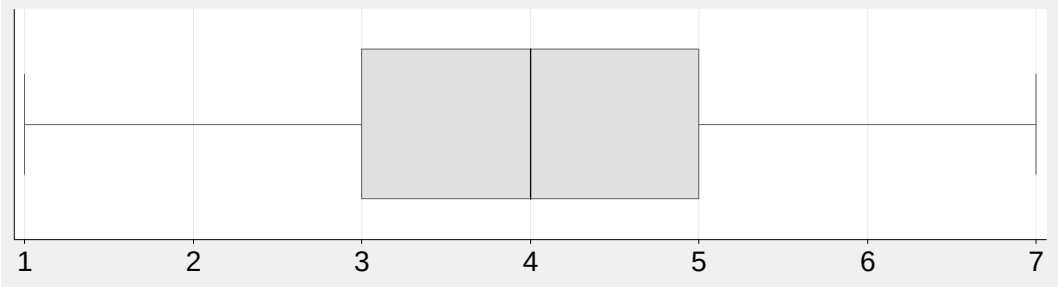
very inadequate 1 2 3 4 5 6 7 very adequate

11a. Data availability for climate change analysis is

very inadequate 1 2 3 4 5 6 7 very adequate

Variable	Obs	Mean	Std. Dev.	Min	Max
Q13	373	3.873995	1.469289	1	7

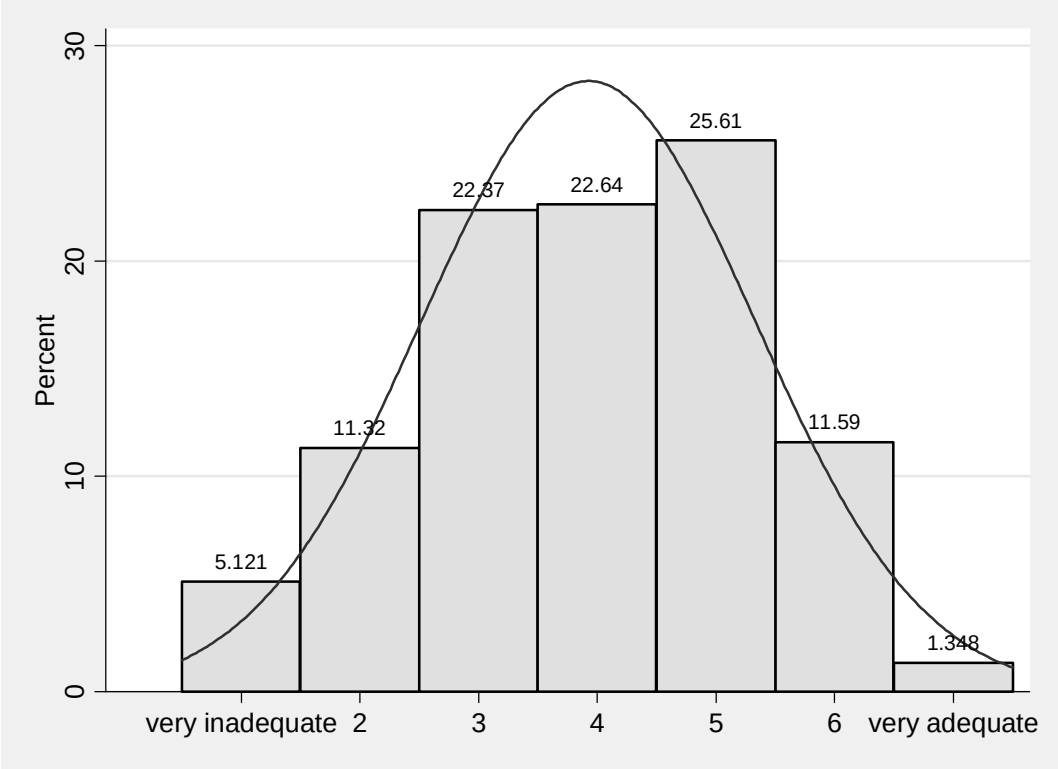


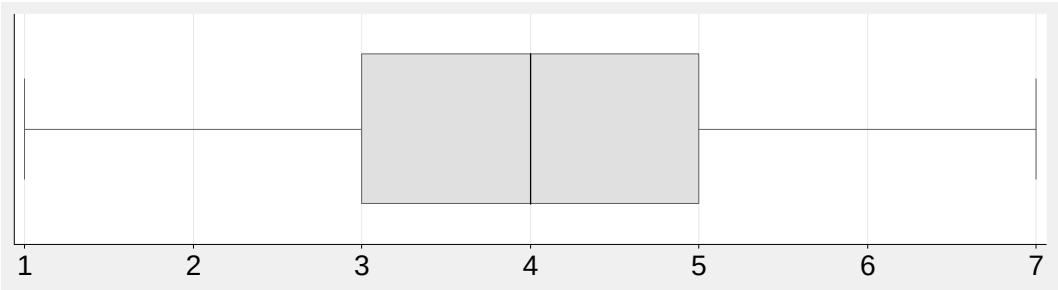


11b. Data collection efforts are currently

very inadequate 1 2 3 4 5 6 7 very adequate

Variable	Obs	Mean	Std. Dev.	Min	Max
Q14	**371**	**3.924528**	**1.40644**	**1**	**7**

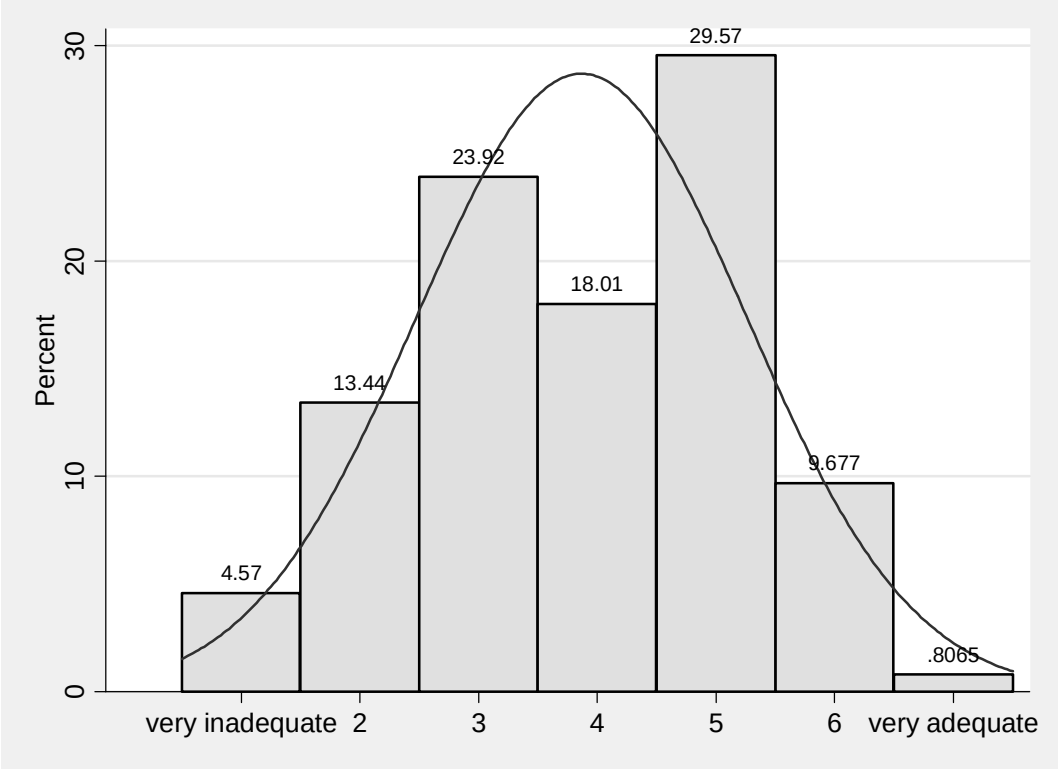


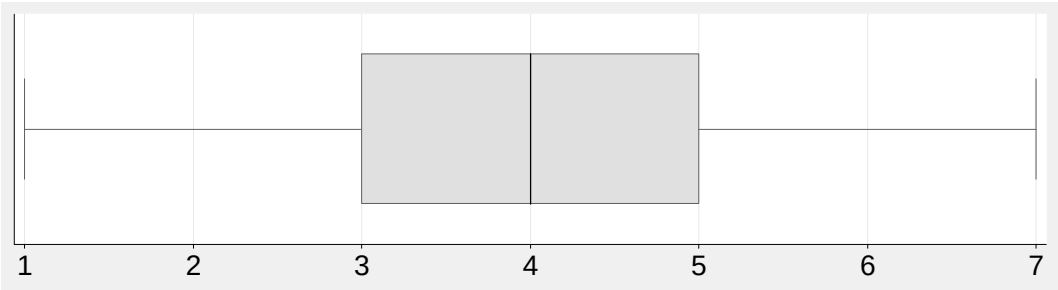


11c. The state of theoretical understanding of climate change phenomena is

very inadequate 1 2 3 4 5 6 7 very adequate

Variable	Obs	Mean	Std. Dev.	Min	Max
Q15	**372**	**3.86828**	**1.389745**	**1**	**7**

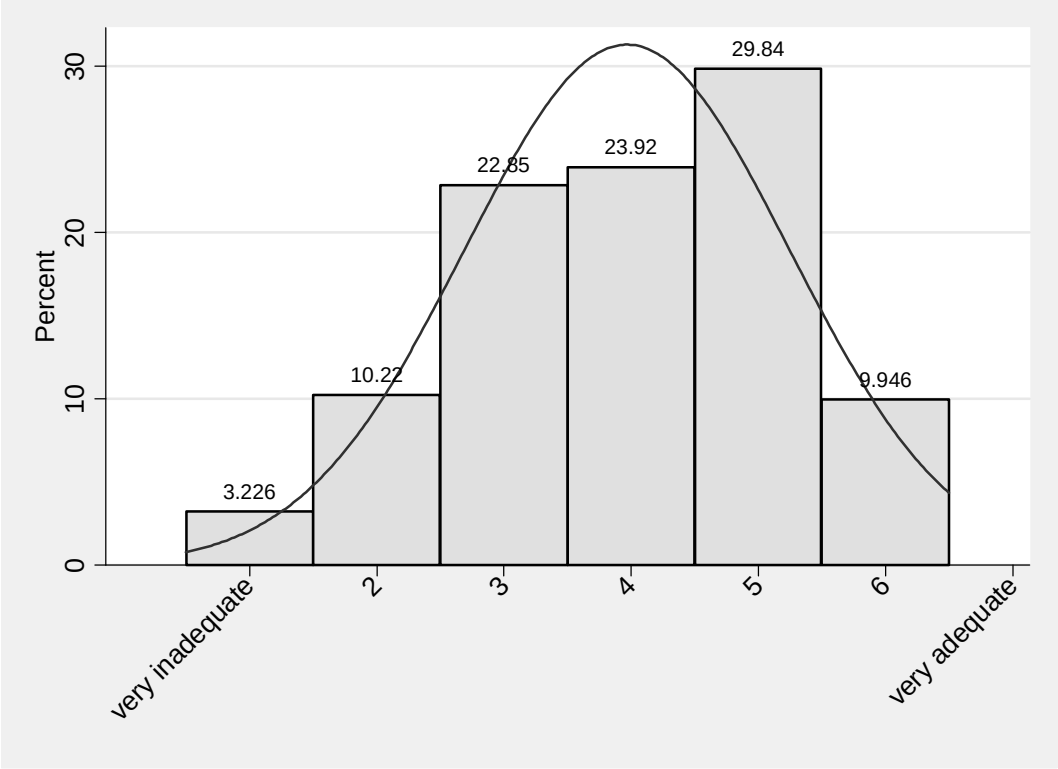


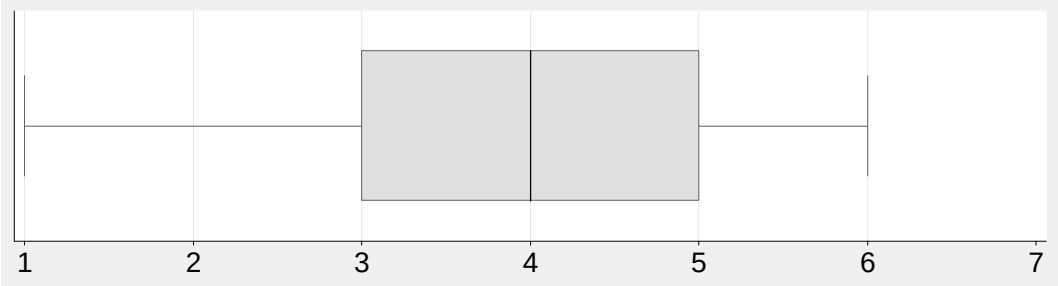


11d. Current theory development for climate change is

very inadequate 1 2 3 4 5 6 7 very adequate

Variable	Obs	Mean	Std. Dev.	Min	Max
Q16	**372**	**3.967742**	**1.275535**	**1**	**6**





Assessment of state of science

We would now like to ask you some questions about components of climate science. We realize that not all scientists work in all areas and that we list a number of distinct areas of expertise which might or might not reflect the main focus of your research. Nonetheless, we ask you to make a ***subjective appraisal*** *based on your familiarity of the separate components of the climate sciences.*

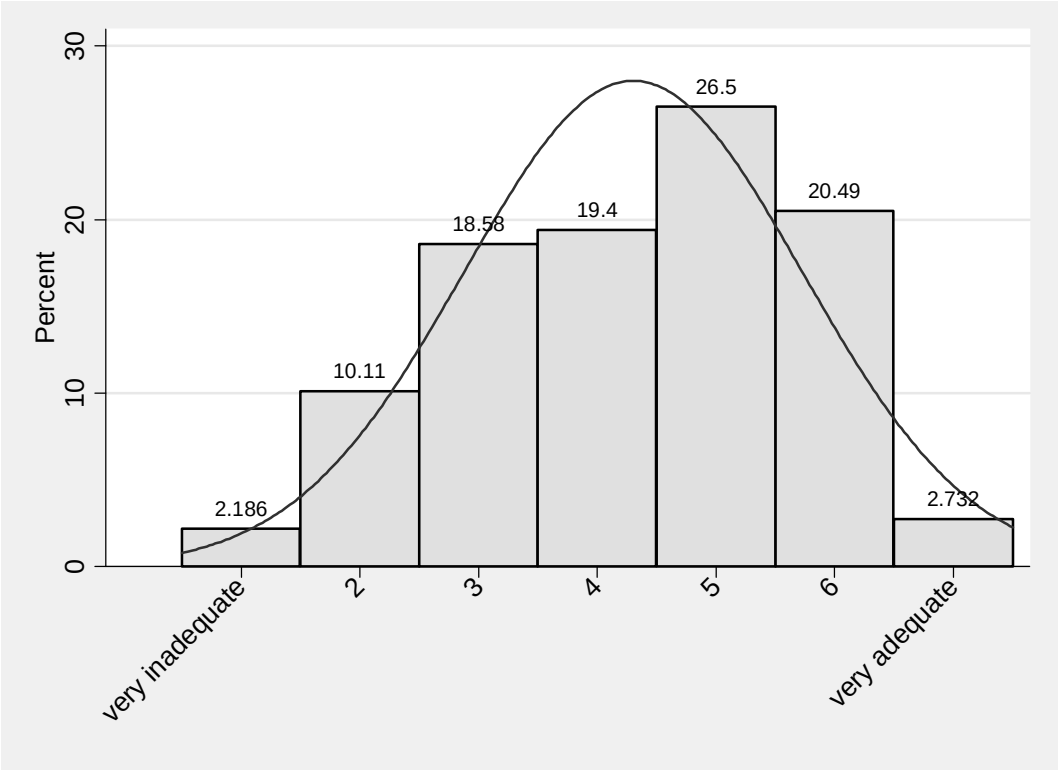
12. How well do you think *atmospheric models* can deal with:

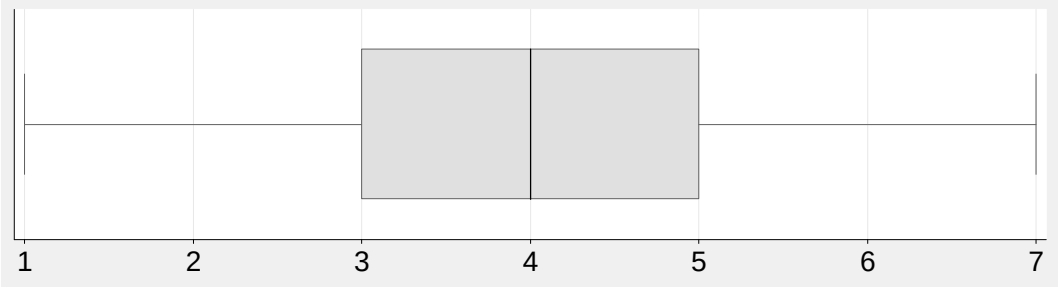
very inadequate 1 2 3 4 5 6 7 very adequate

12a. hydrodynamics

very inadequate 1 2 3 4 5 6 7 very adequate

Variable	Obs	Mean	Std. Dev.	Min	Max
Q17	366	4.303279	1.425152	1	7

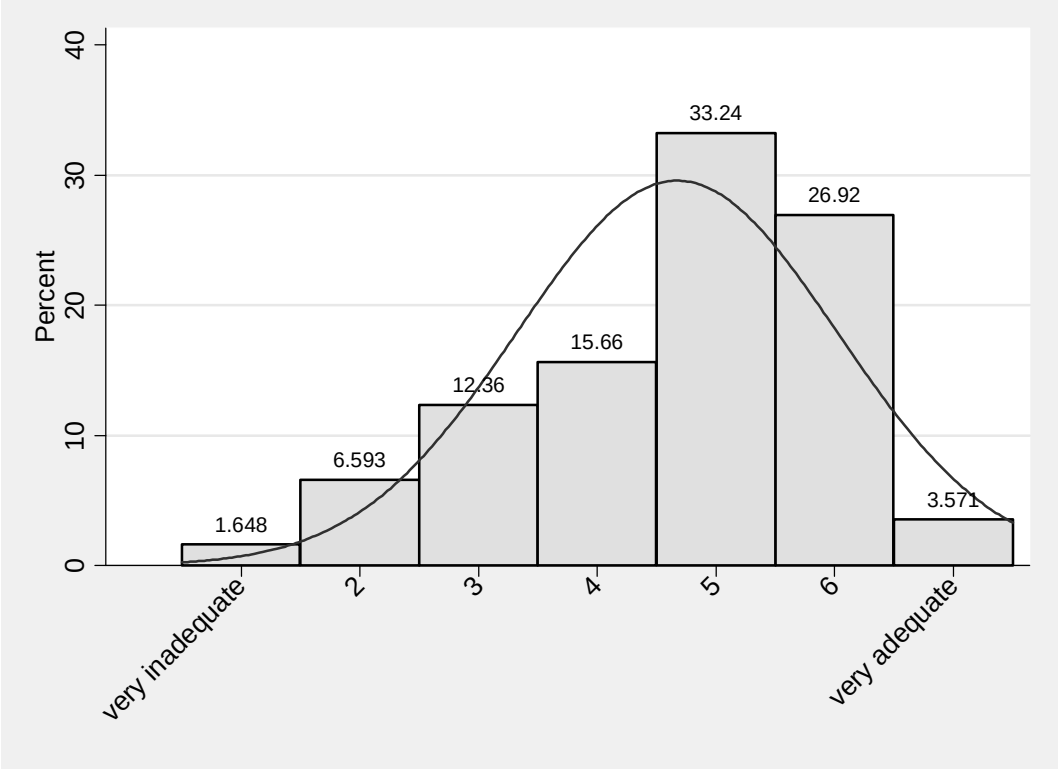


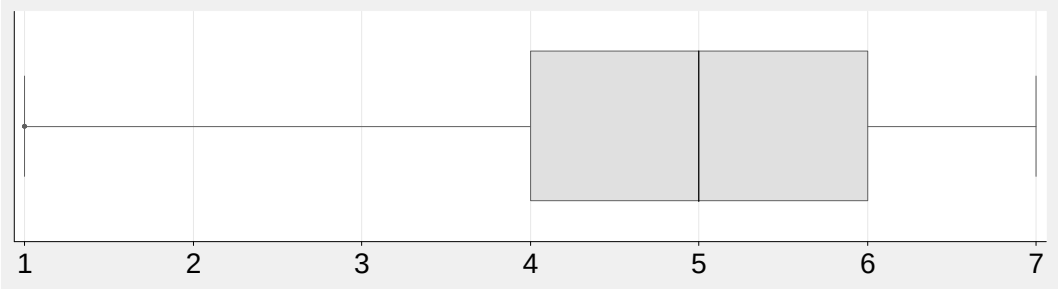


12b. radiation

very inadequate 1 2 3 4 5 6 7 very adequate

Variable	Obs	Mean	Std. Dev.	Min	Max
Q18	**364**	**4.673077**	**1.348498**	**1**	**7**

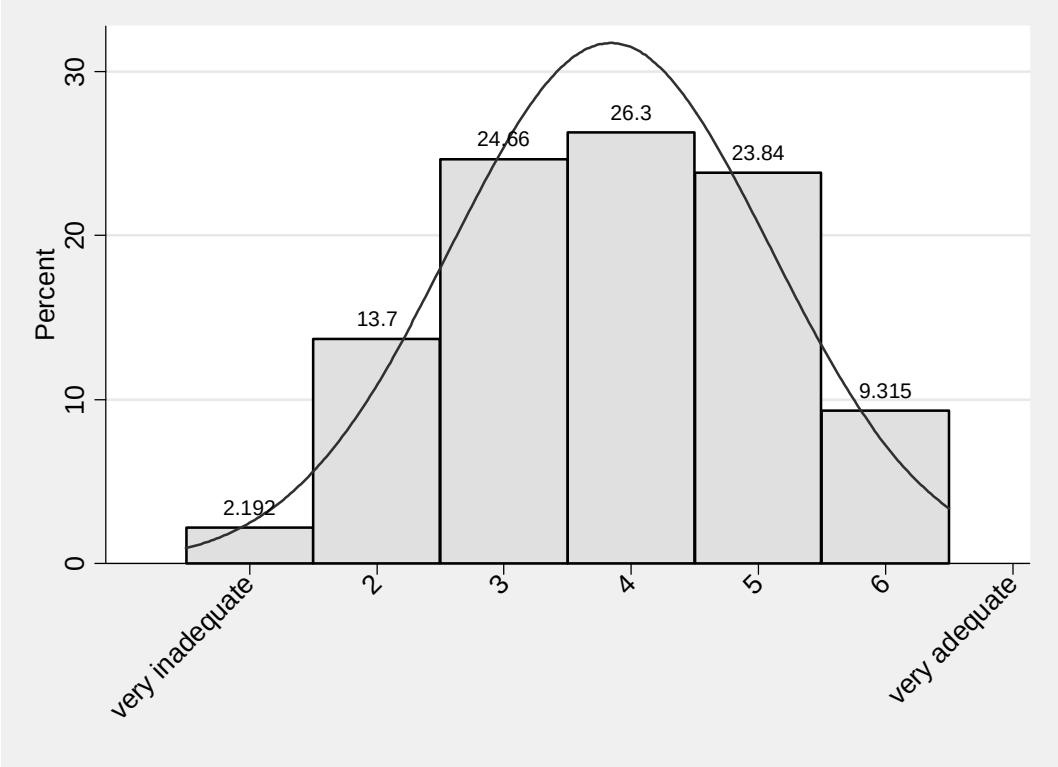


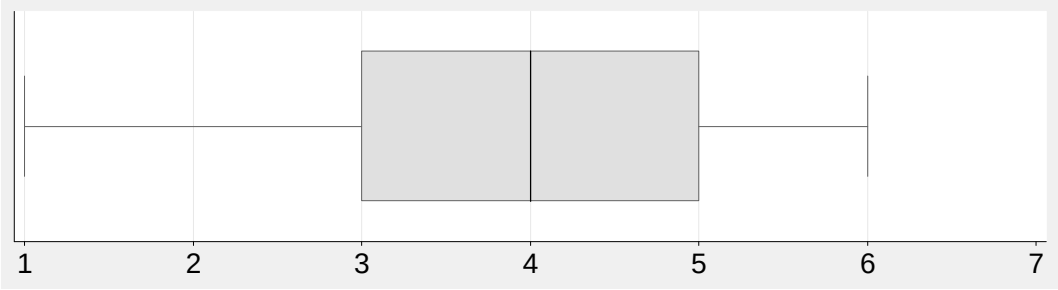


12c. vapor in the atmosphere

very inadequate 1 2 3 4 5 6 7 very adequate

Variable	Obs	Mean	Std. Dev.	Min	Max
Q19	365	3.838356	1.257355	1	6

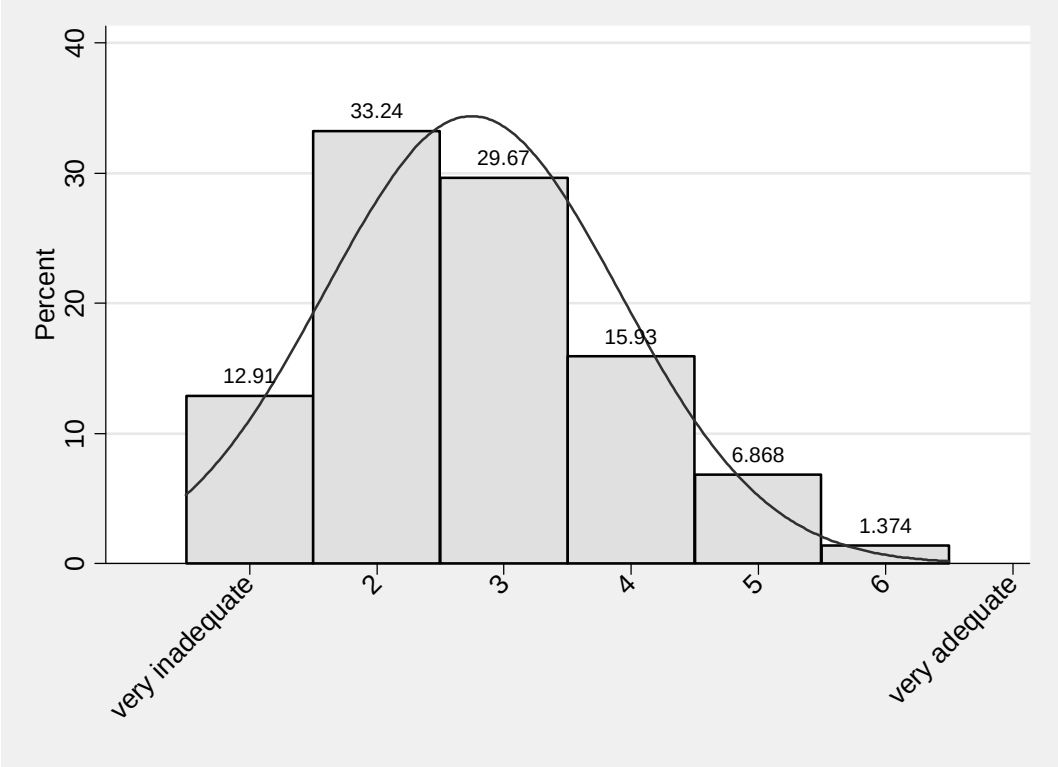


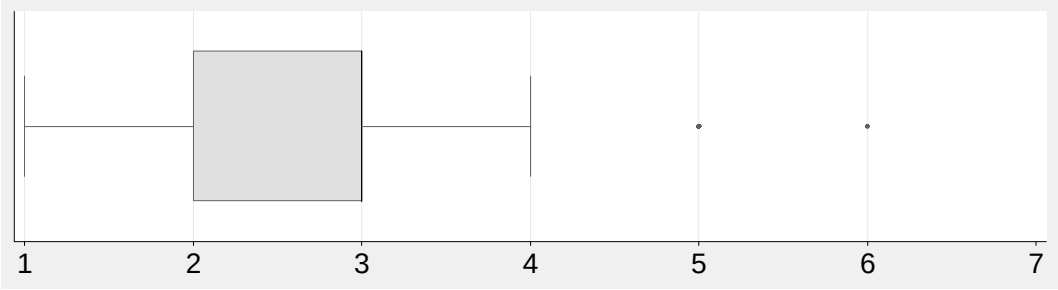


12d. the influence of clouds

very inadequate 1 2 3 4 5 6 7 very adequate

Variable	Obs	Mean	Std. Dev.	Min	Max
Q20	364	2.747253	1.16035	1	6

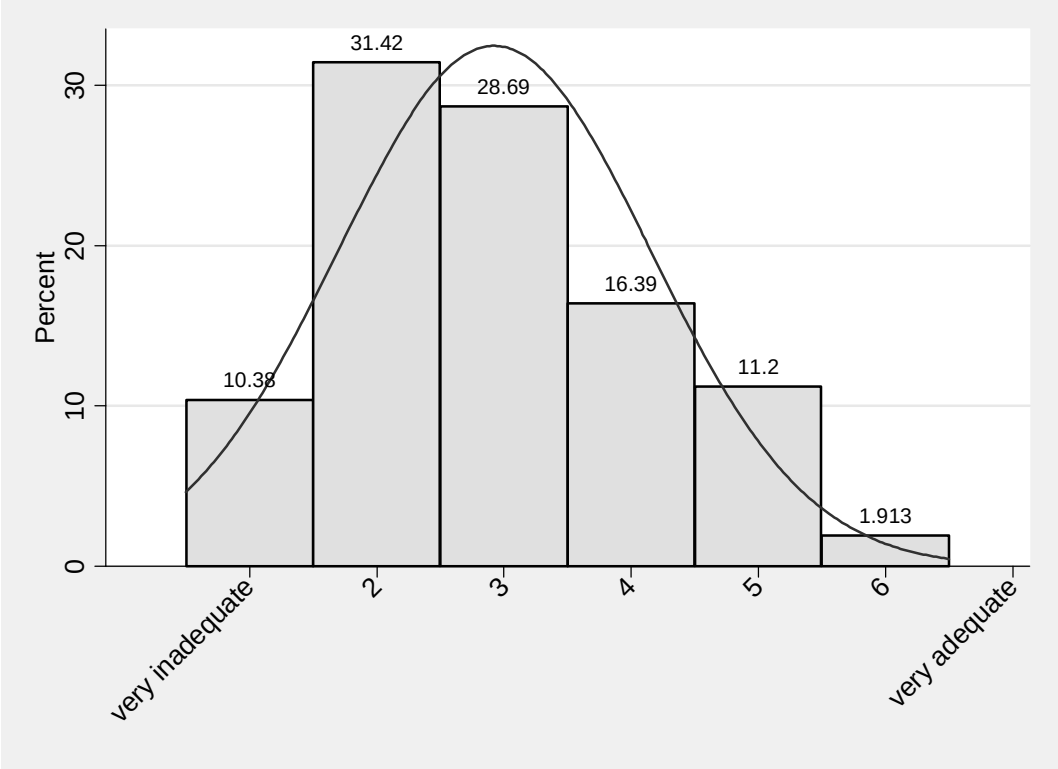


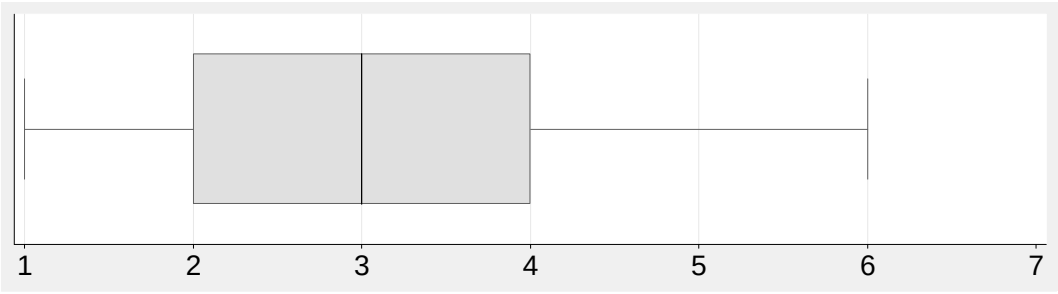


12e. precipitation

very inadequate 1 2 3 4 5 6 7 very adequate

Variable	Obs	Mean	Std. Dev.	Min	Max
Q21	**366**	**2.923497**	**1.229609**	**1**	**6**

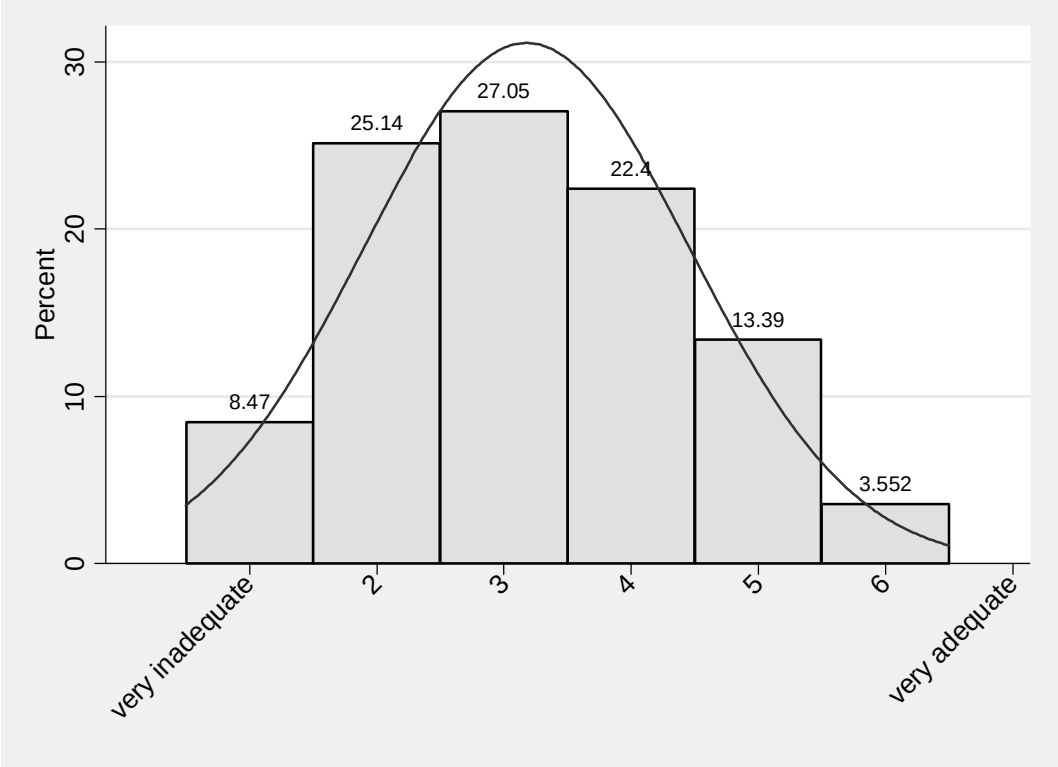


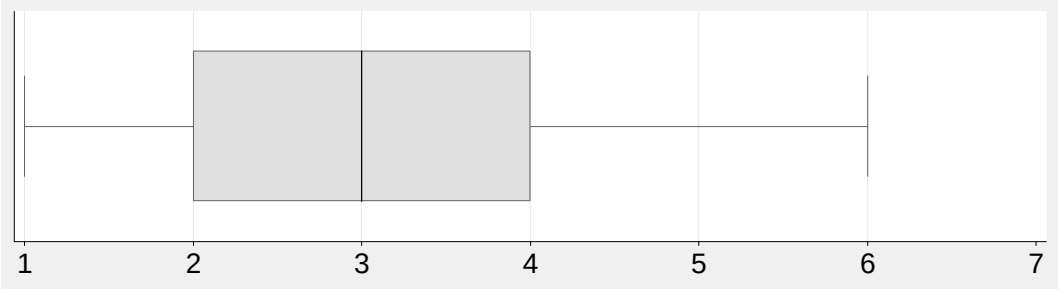


12f. atmospheric convection

very inadequate 1 2 3 4 5 6 7 very adequate

Variable	Obs	Mean	Std. Dev.	Min	Max
Q22	366	3.177596	1.28154	1	6





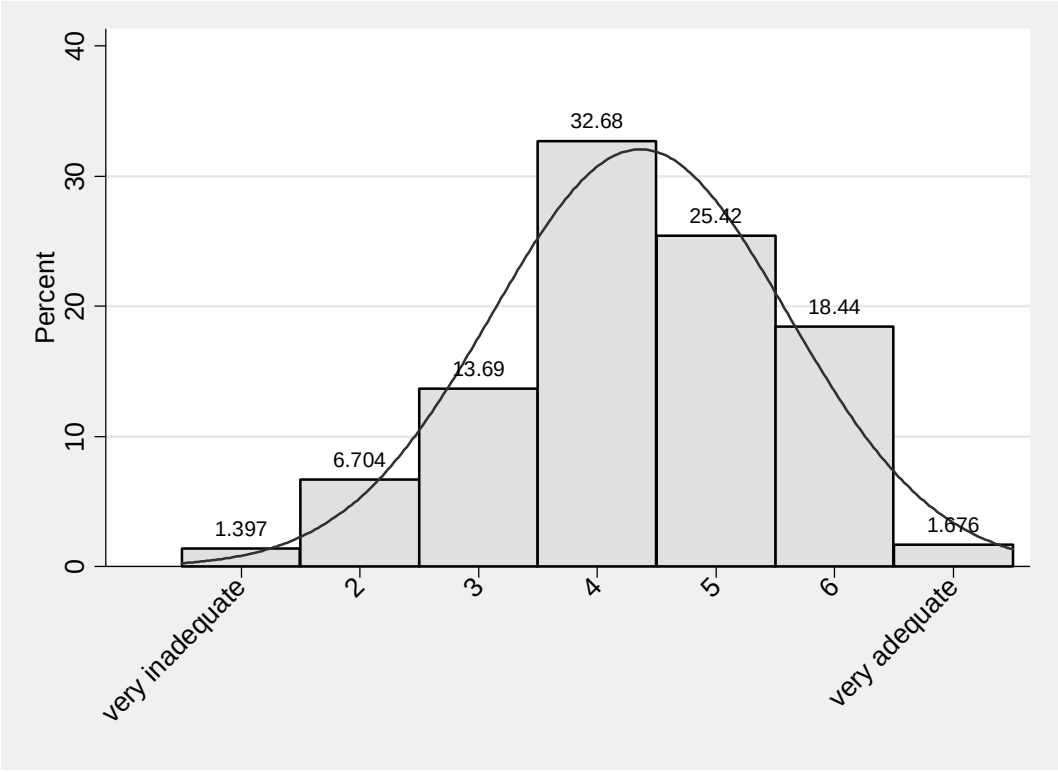
13. How well do you think *ocean models* can deal with:

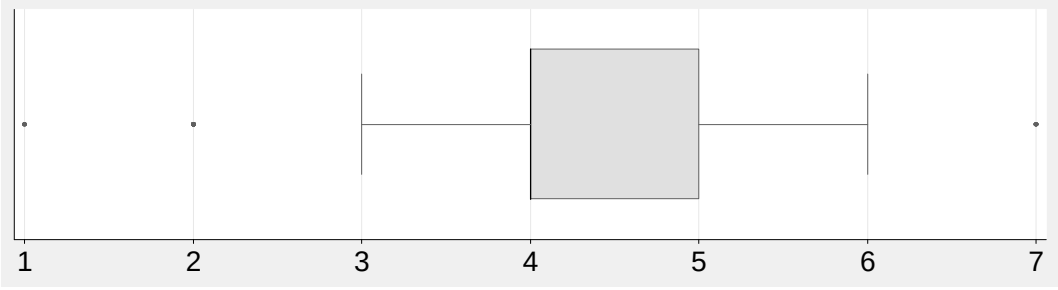
very inadequate 1 2 3 4 5 6 7 very adequate

13a. hydrodynamics

very inadequate 1 2 3 4 5 6 7 very adequate

Variable	Obs	Mean	Std. Dev.	Min	Max
Q23	358	4.360335	1.244052	1	7

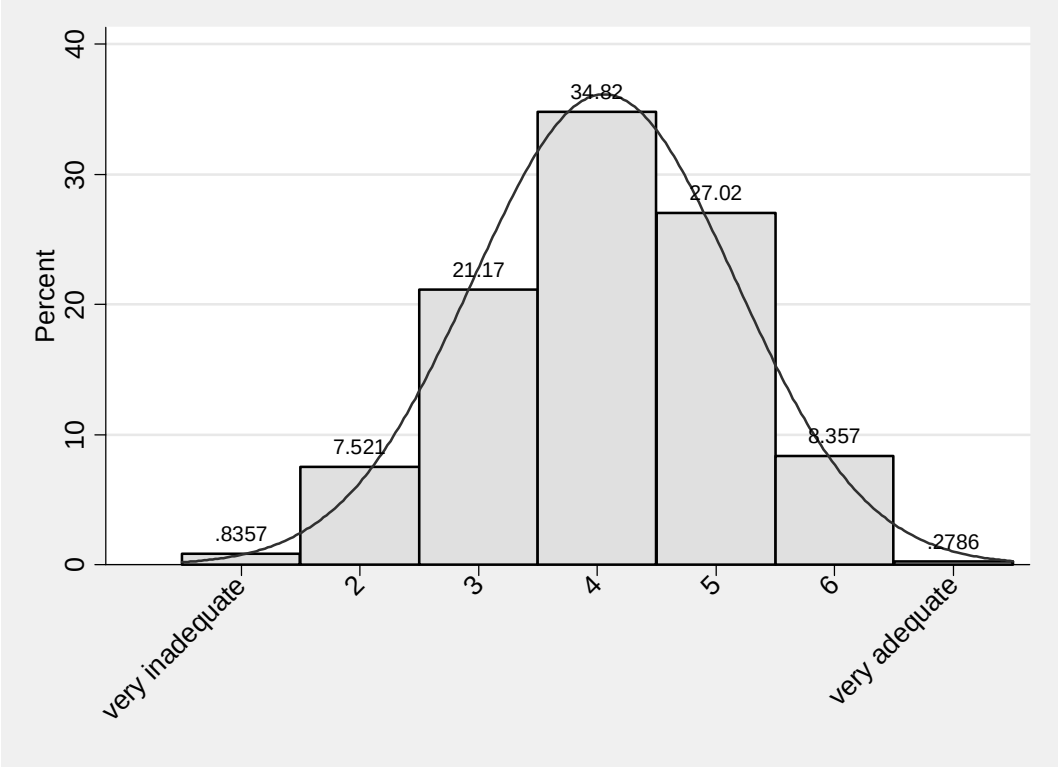


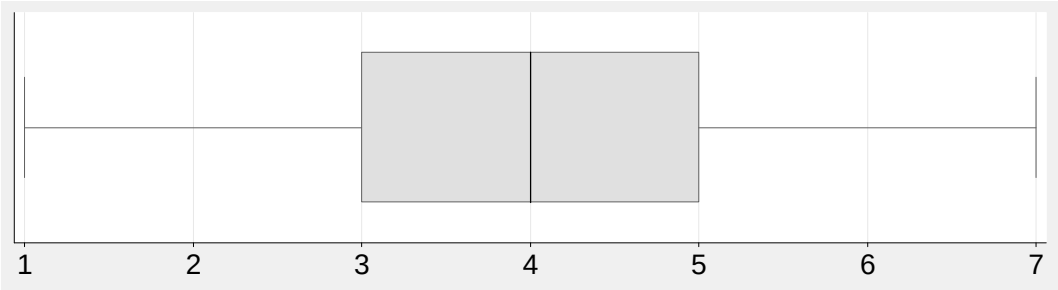


13b. heat transport in the ocean

very inadequate 1 2 3 4 5 6 7 very adequate

Variable	Obs	Mean	Std. Dev.	Min	Max
Q24	359	4.058496	1.103286	1	7

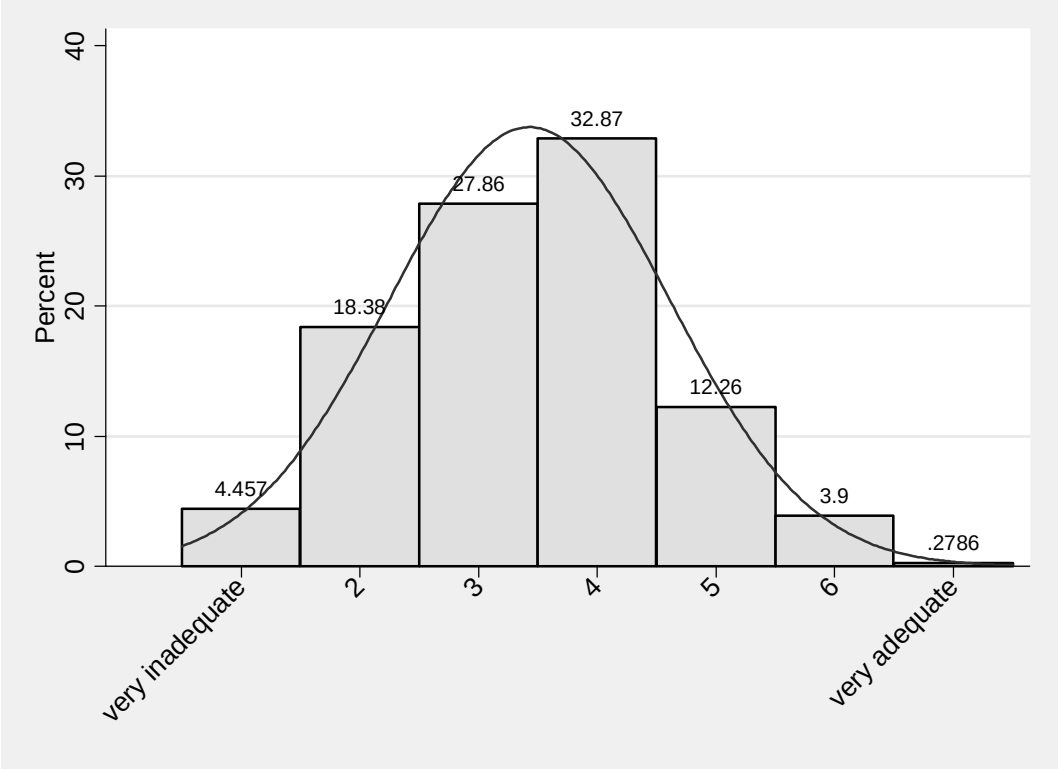


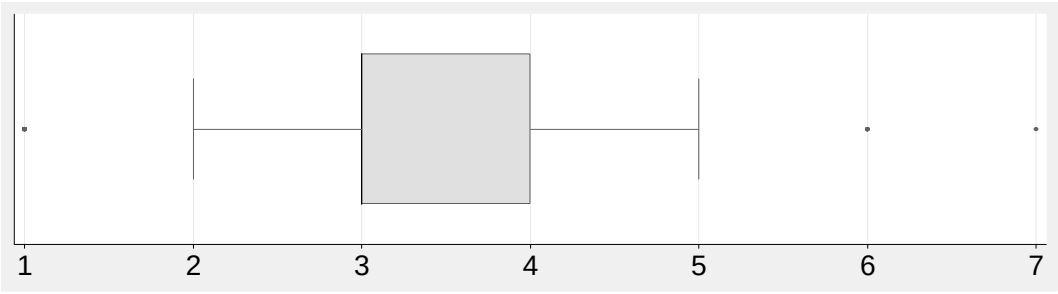


13c. oceanic convection

very inadequate 1 2 3 4 5 6 7 very adequate

Variable	Obs	Mean	Std. Dev.	Min	Max
Q25	**359**	**3.428969**	**1.181726**	**1**	**7**

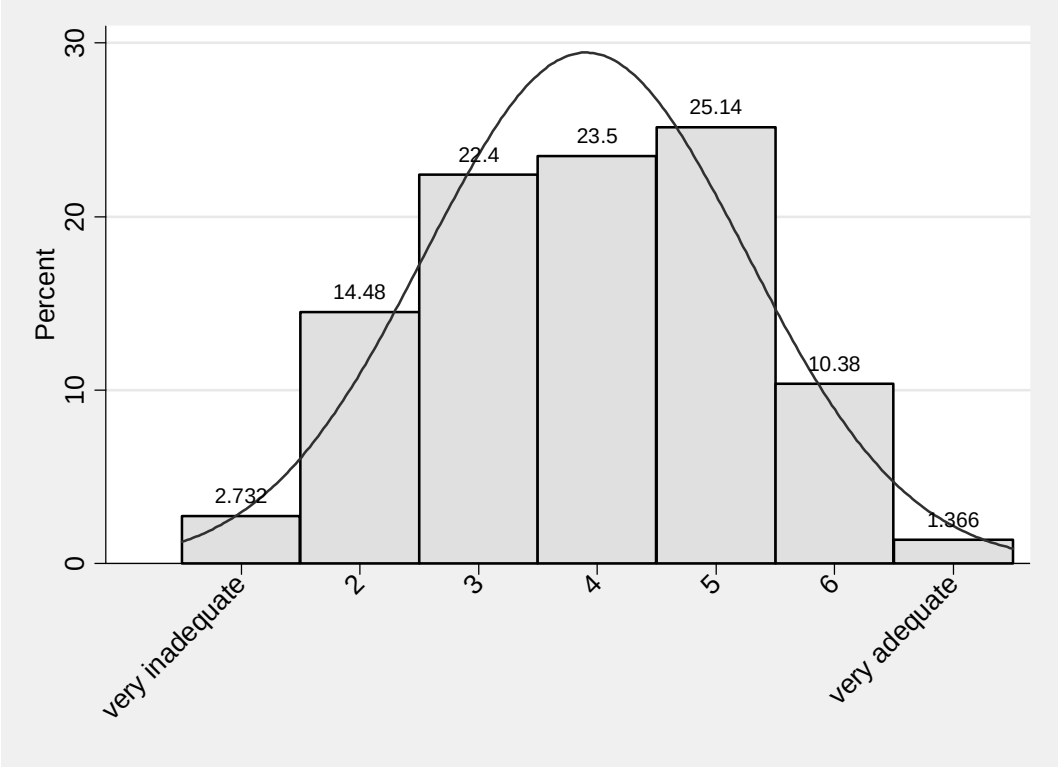


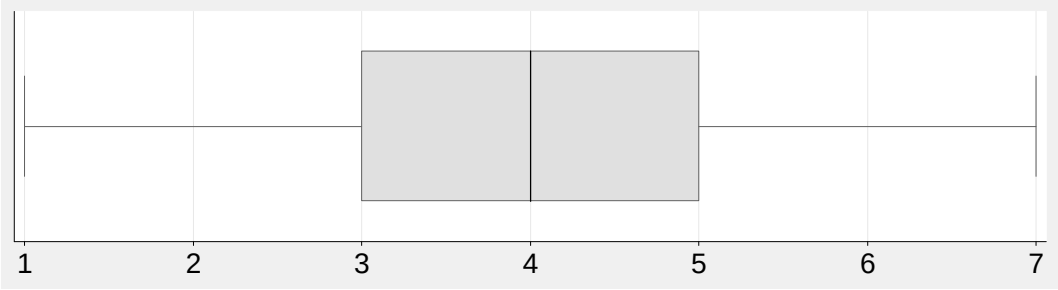


14. How adequate is the ability to couple atmospheric and ocean models?

very inadequate 1 2 3 4 5 6 7 very adequate

Variable	Obs	Mean	Std. Dev.	Min	Max
Q26	366	3.904372	1.354498	1	7





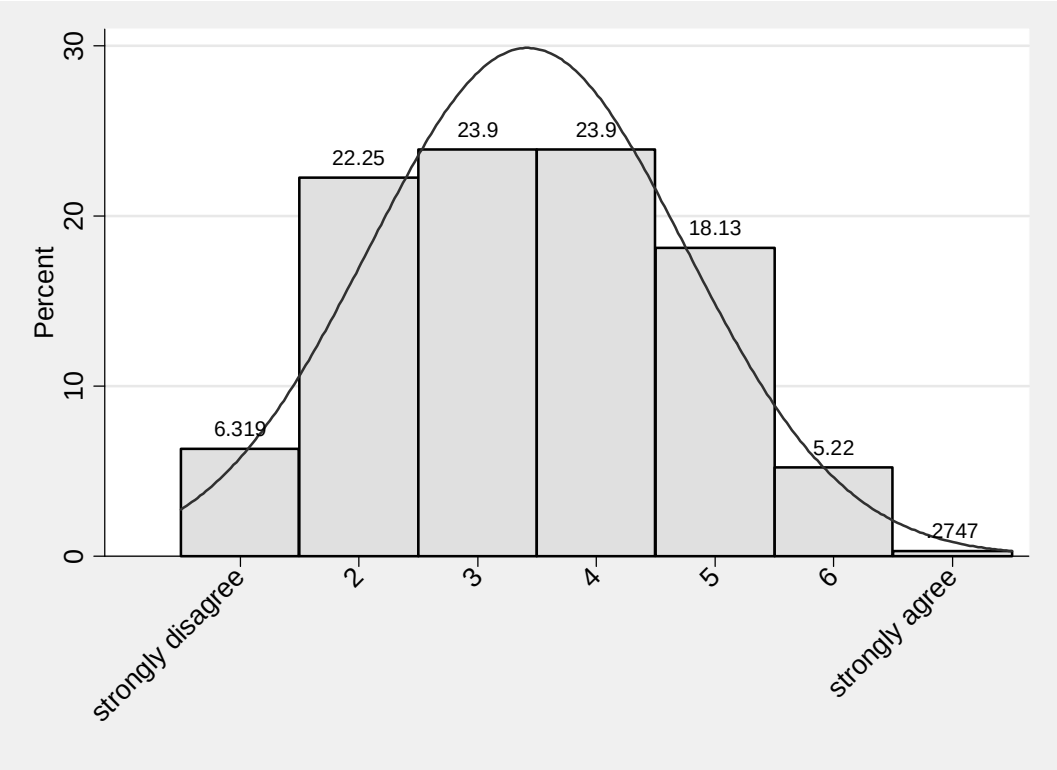
15. The current state of scientific knowledge is developed well enough to allow for a reasonable assessment of the effects of:

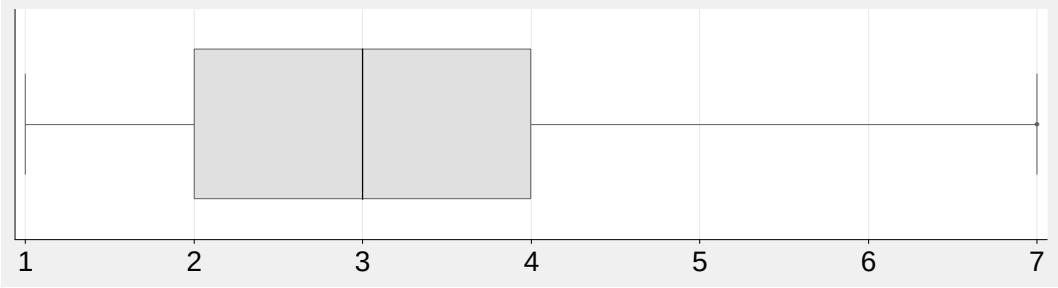
strongly disagree 1 2 3 4 5 6 7 strongly agree

15a. turbulence

strongly disagree 1 2 3 4 5 6 7 strongly agree

Variable	Obs	Mean	Std. Dev.	Min	Max
Q27	364	3.42033	1.334734	1	7

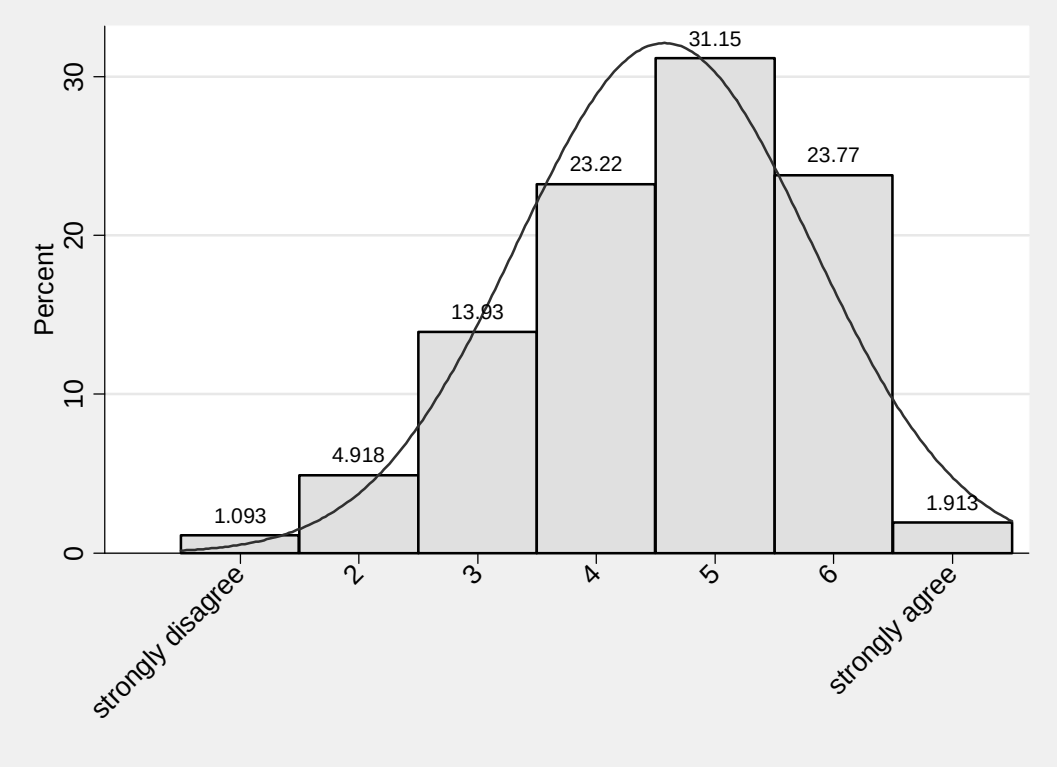


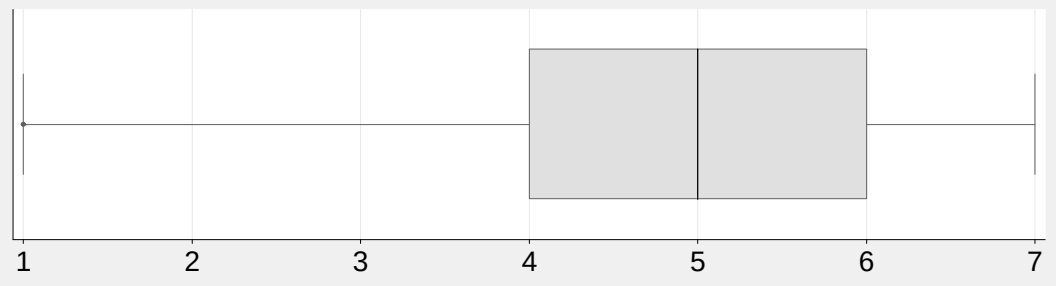


15b. surface albedo

strongly disagree 1 2 3 4 5 6 7 strongly agree

Variable	Obs	Mean	Std. Dev.	Min	Max
Q28	366	4.57377	1.242521	1	7

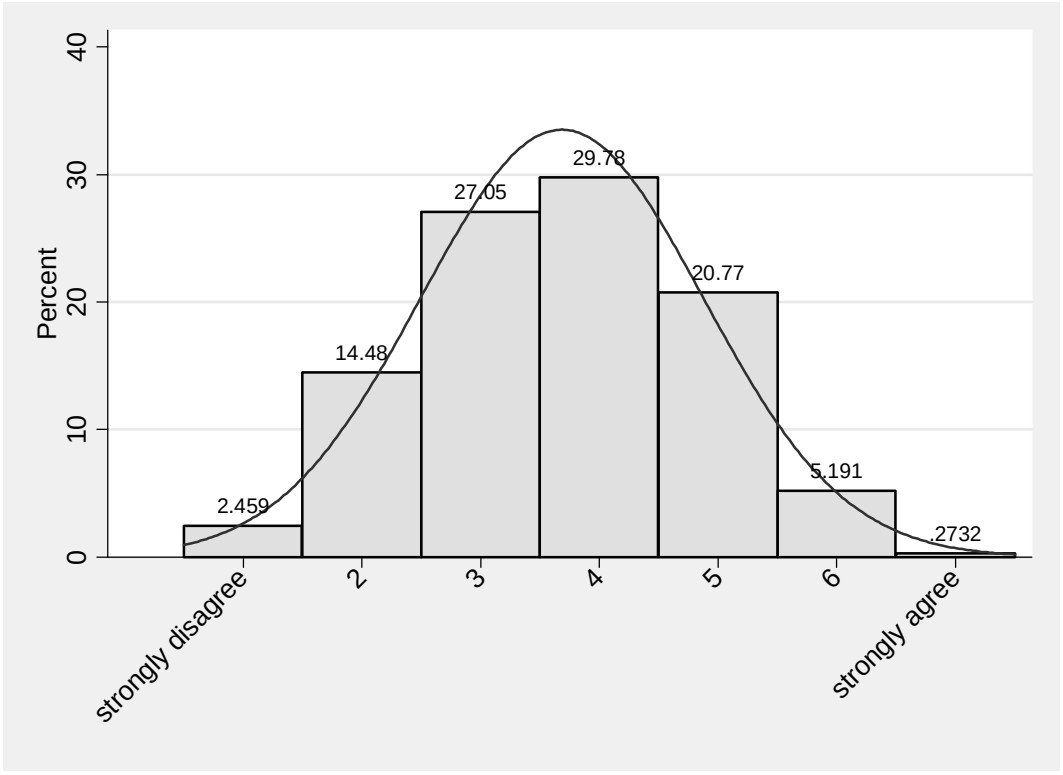


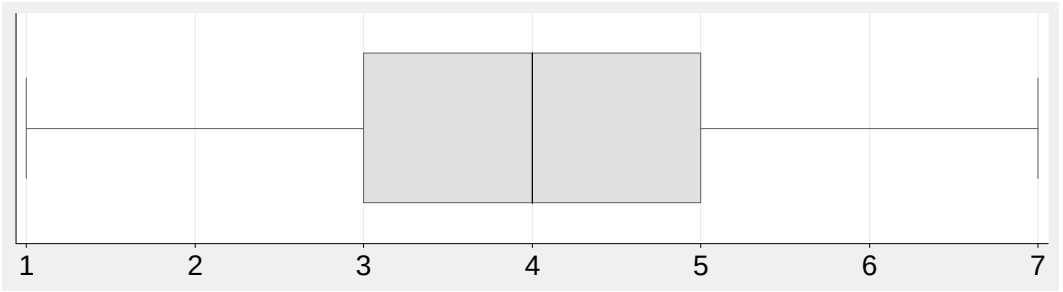


15c. land surface processes

strongly disagree 1 2 3 4 5 6 7 strongly agree

Variable	Obs	Mean	Std. Dev.	Min	Max
Q29	366	3.685792	1.189988	1	7

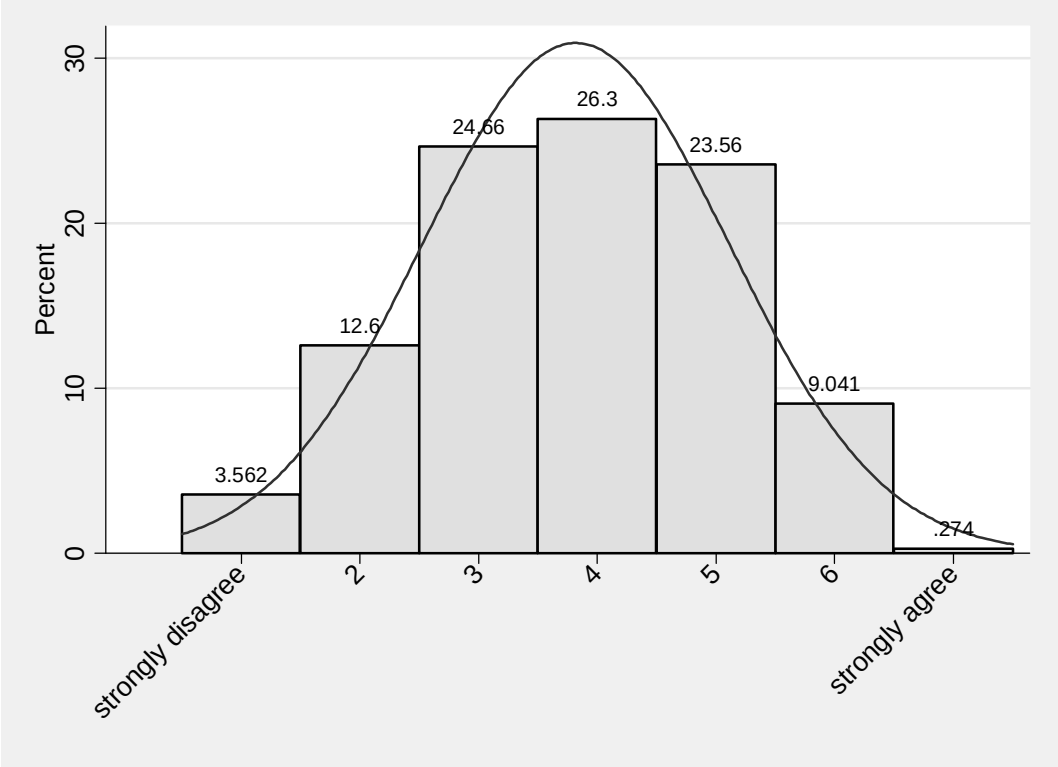


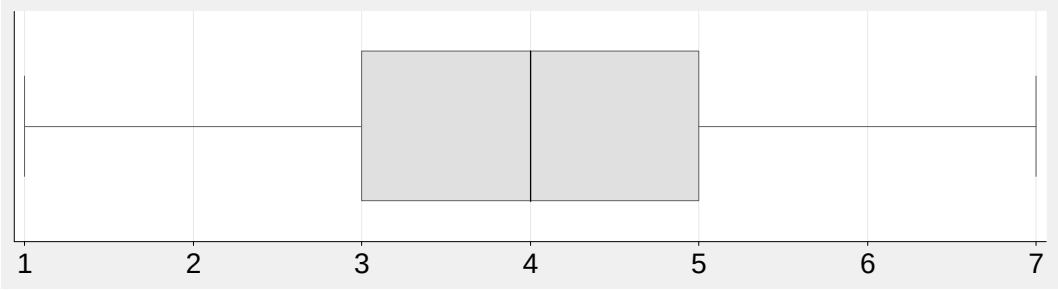


15d. sea ice

strongly disagree 1 2 3 4 5 6 7 strongly agree

Variable	Obs	Mean	Std. Dev.	Min	Max
Q30	365	3.819178	1.290355	1	7

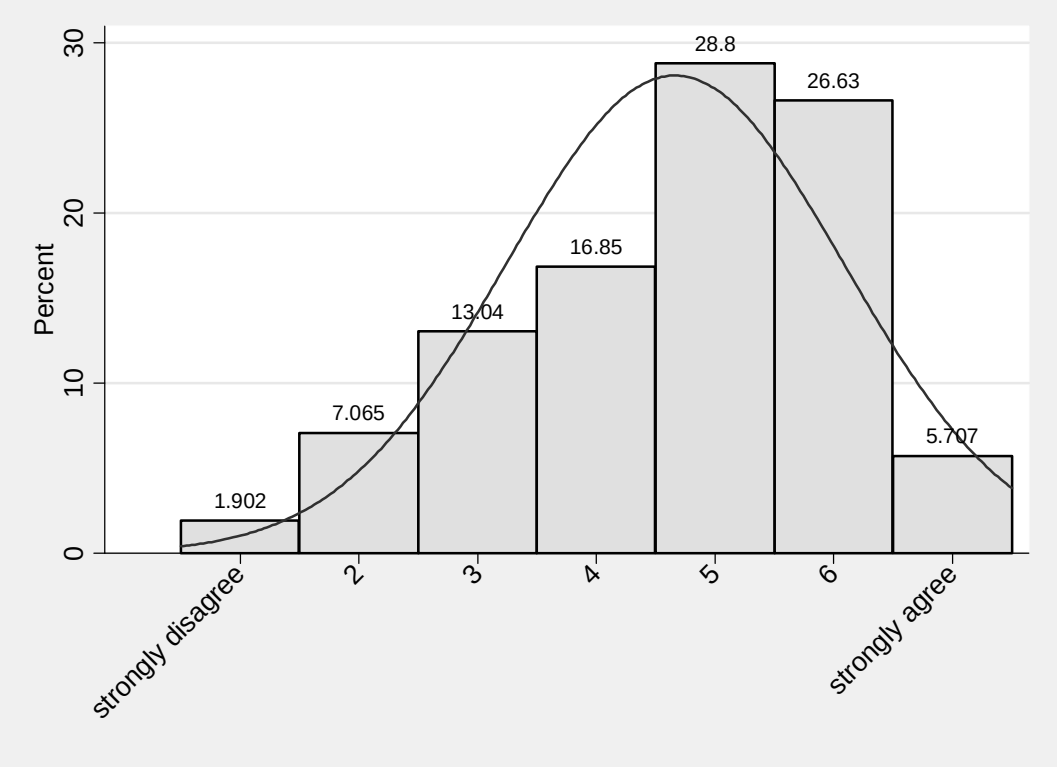


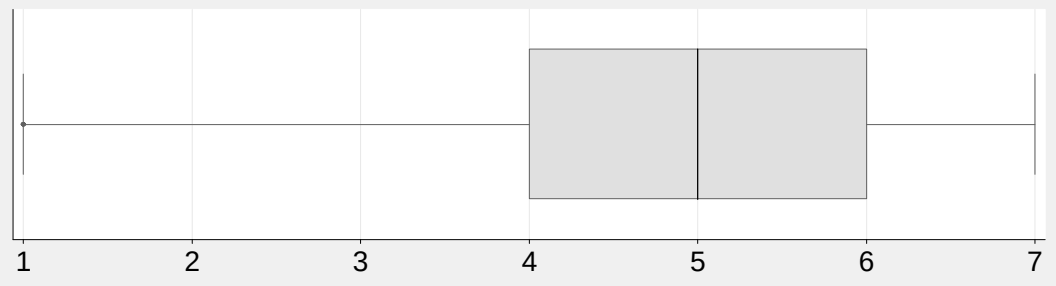


15e. green-house gases emitted from anthropogenic sources

strongly disagree 1 2 3 4 5 6 7 strongly agree

Variable	Obs	Mean	Std. Dev.	Min	Max
Q31	368	4.663043	1.420191	1	7





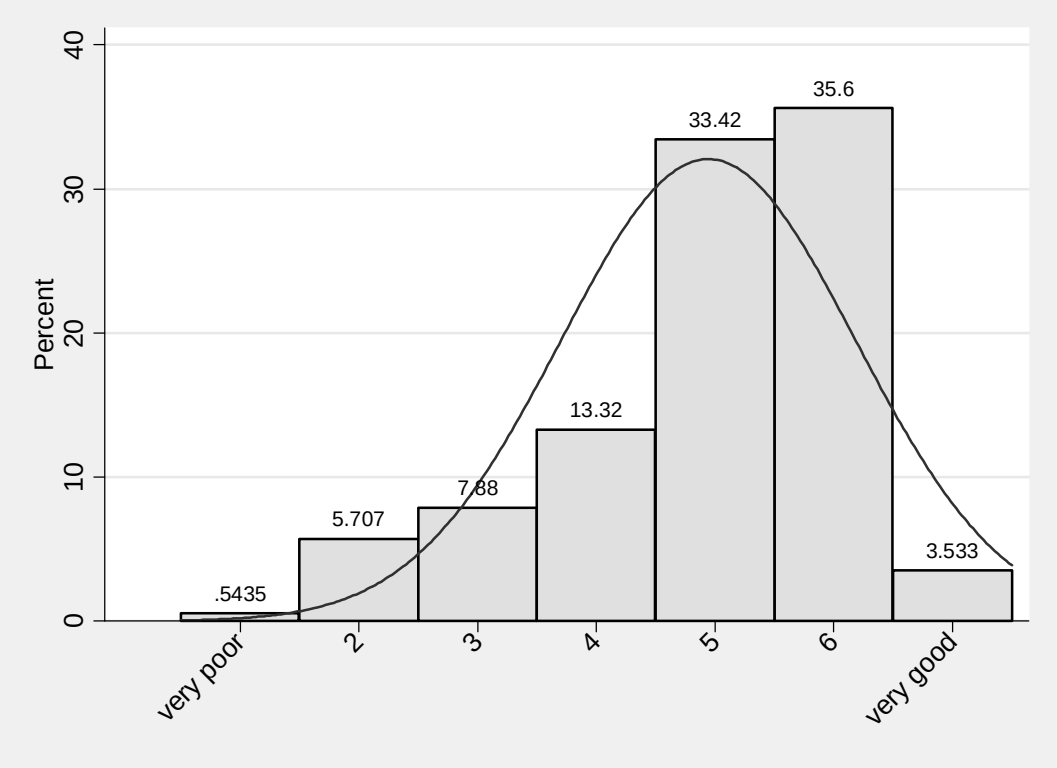
16. How would you rate the ability of *global* climate models to:

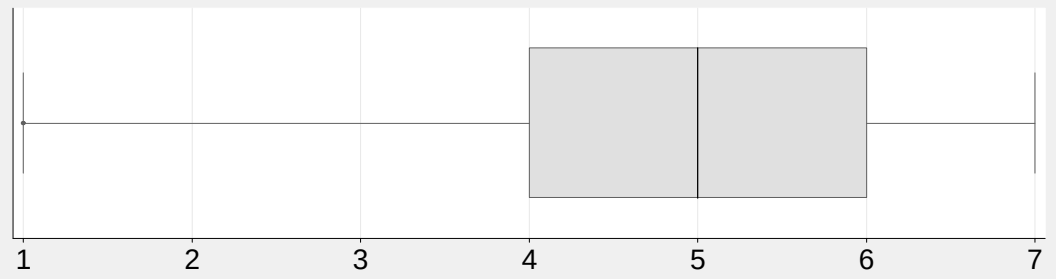
very poor 1 2 3 4 5 6 7 very good

16a. reproduce temperature observations

very poor 1 2 3 4 5 6 7 very good

Variable	Obs	Mean	Std. Dev.	Min	Max
Q32	**368**	**4.942935**	**1.243842**	**1**	**7**

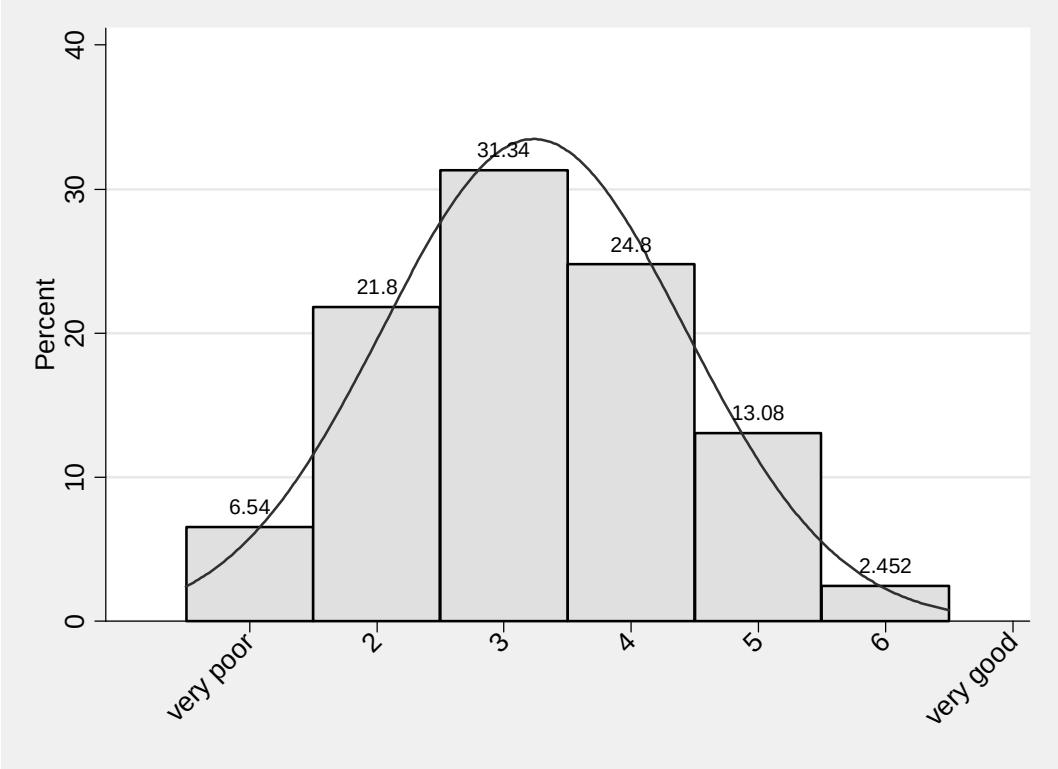


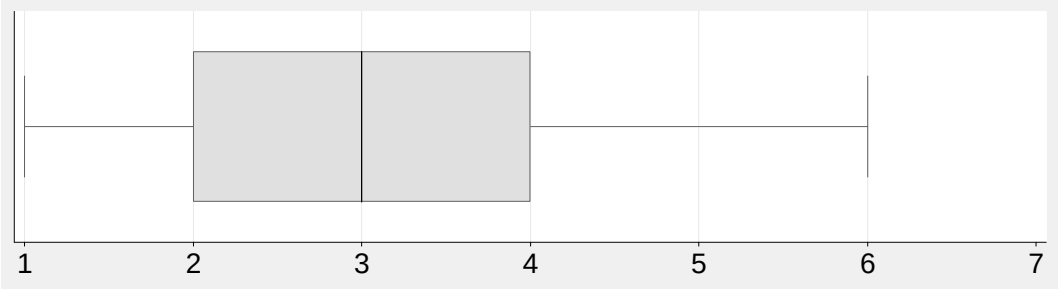


16b. reproduce precipitation observations

very poor 1 2 3 4 5 6 7 very good

Variable	Obs	Mean	Std. Dev.	Min	Max
Q33	367	3.234332	1.191784	1	6

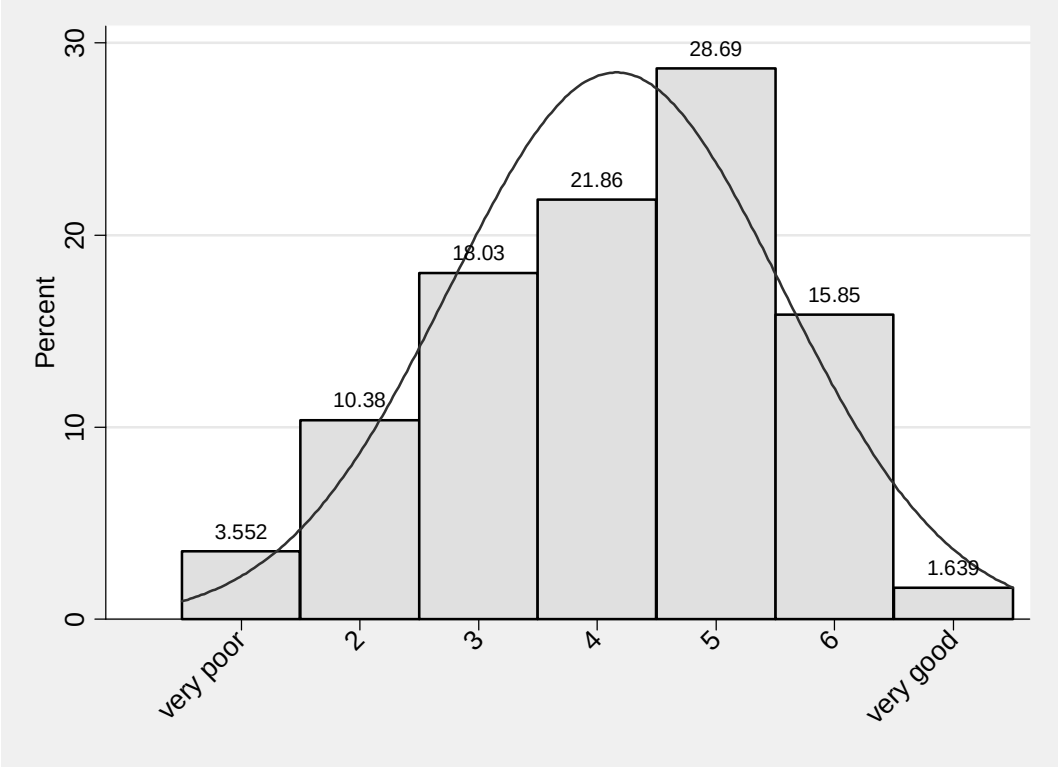


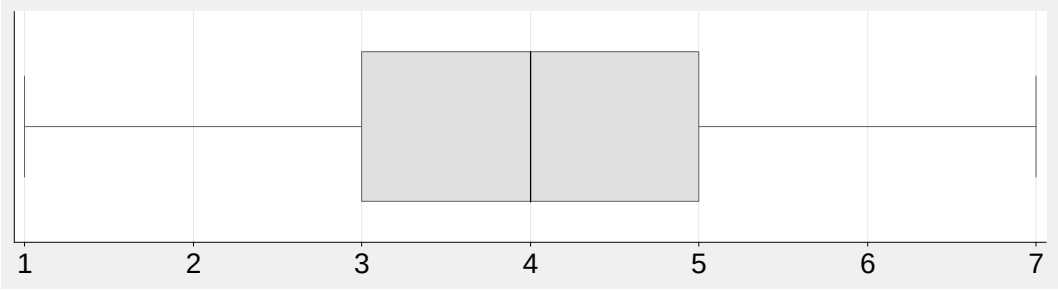


16c. model temperature values for the next 10 years

very poor 1 2 3 4 5 6 7 very good

Variable	Obs	Mean	Std. Dev.	Min	Max
Q34	366	4.15847	1.401378	1	7

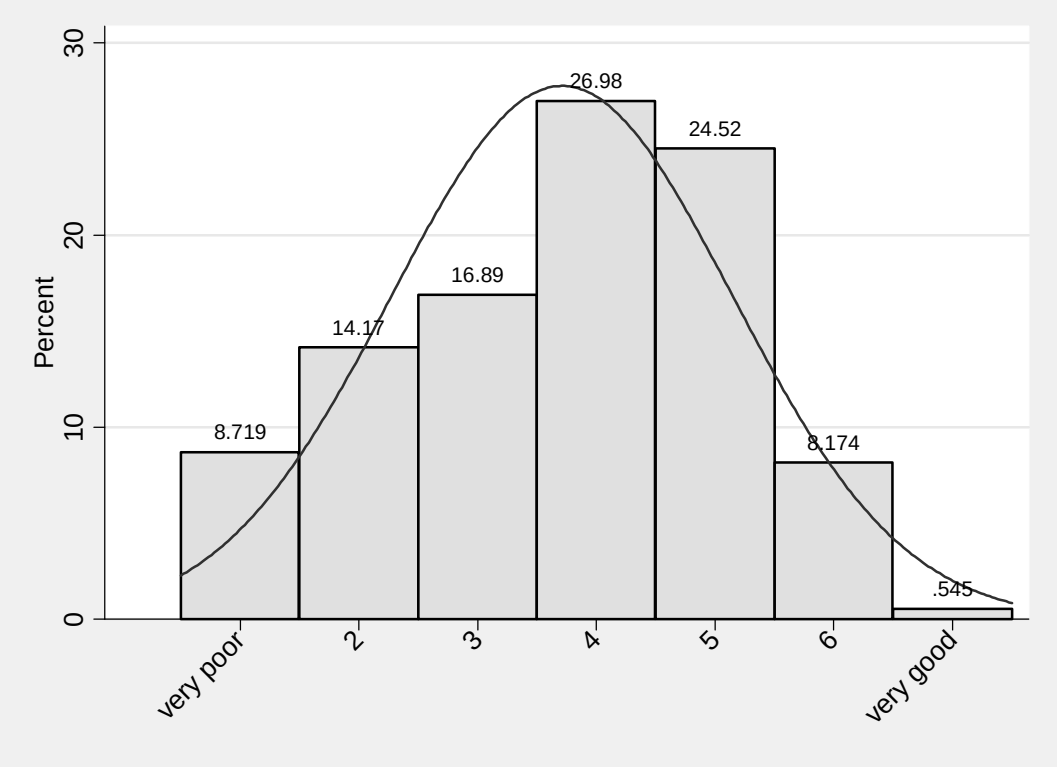


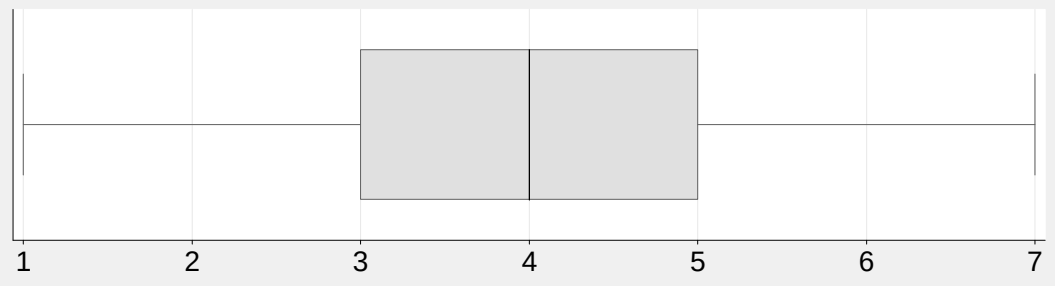


16d. model temperature values for the next 50 years

very poor 1 2 3 4 5 6 7 very good

Variable	Obs	Mean	Std. Dev.	Min	Max
Q35	367	3.711172	1.436625	1	7

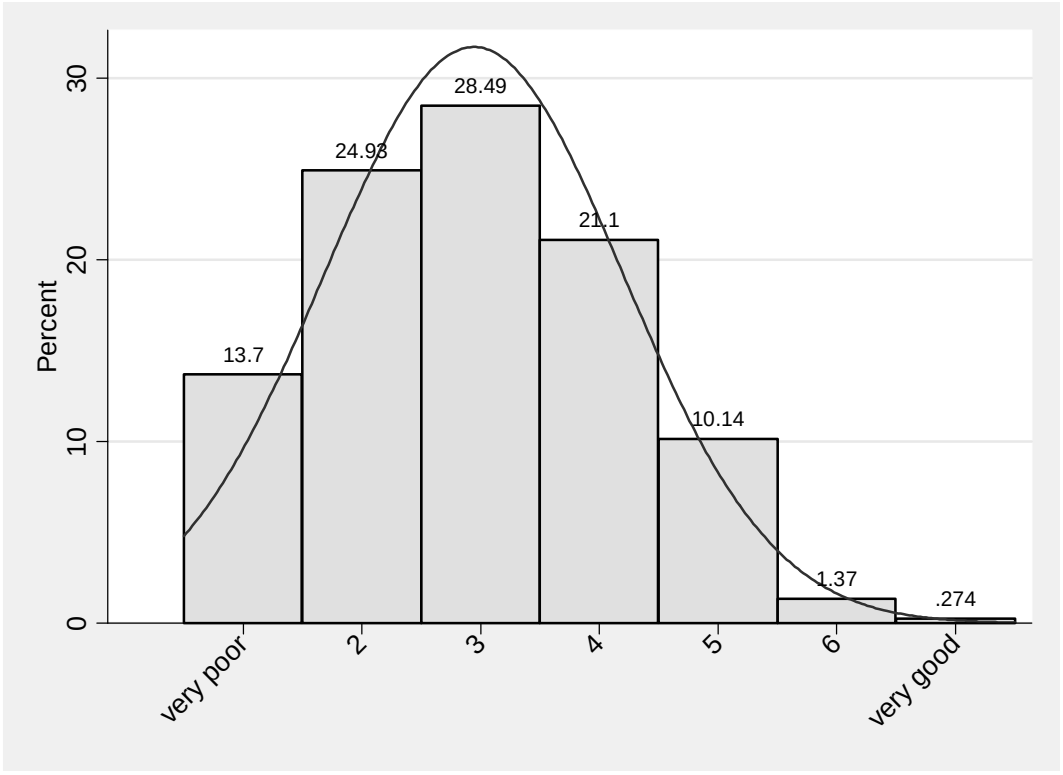


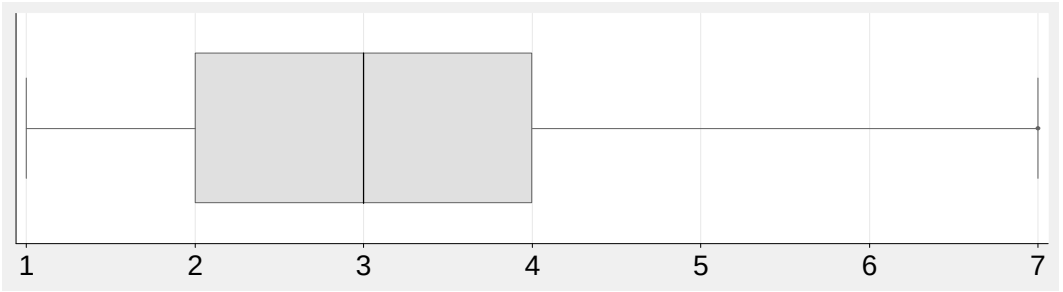


16e. model precipitation values for the next 10 years

very poor 1 2 3 4 5 6 7 very good

Variable	Obs	Mean	Std. Dev.	Min	Max
Q36	365	2.942466	1.257714	1	7

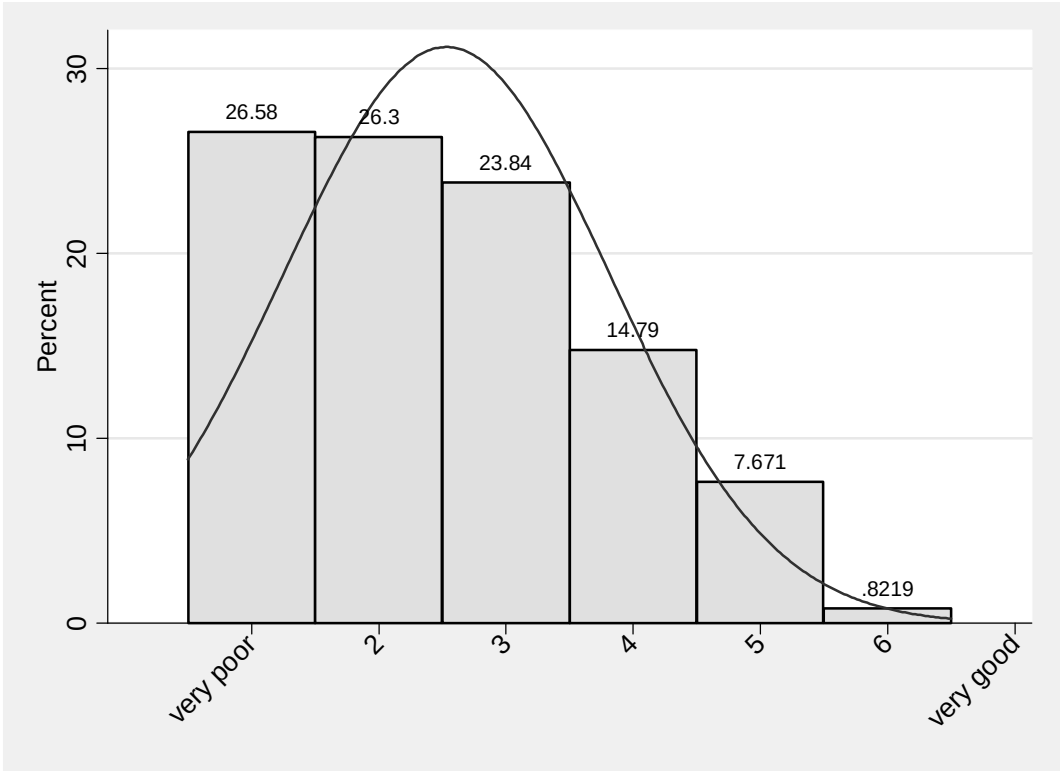


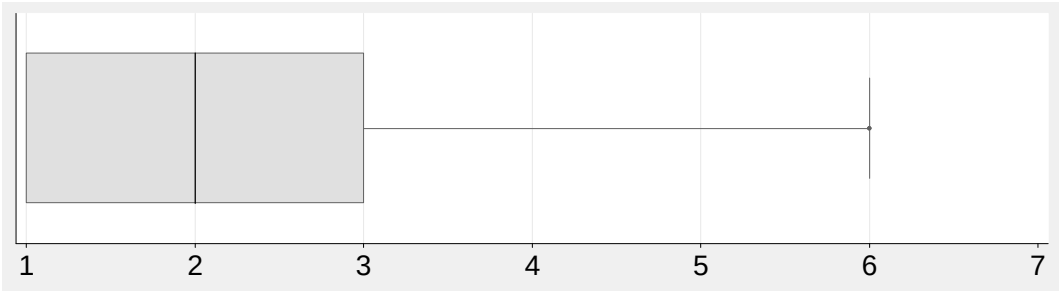


16f. model precipitation values for the next 50 years

very poor 1 2 3 4 5 6 7 very good

Variable	Obs	Mean	Std. Dev.	Min	Max
Q37	**365**	**2.531507**	**1.280547**	**1**	**6**

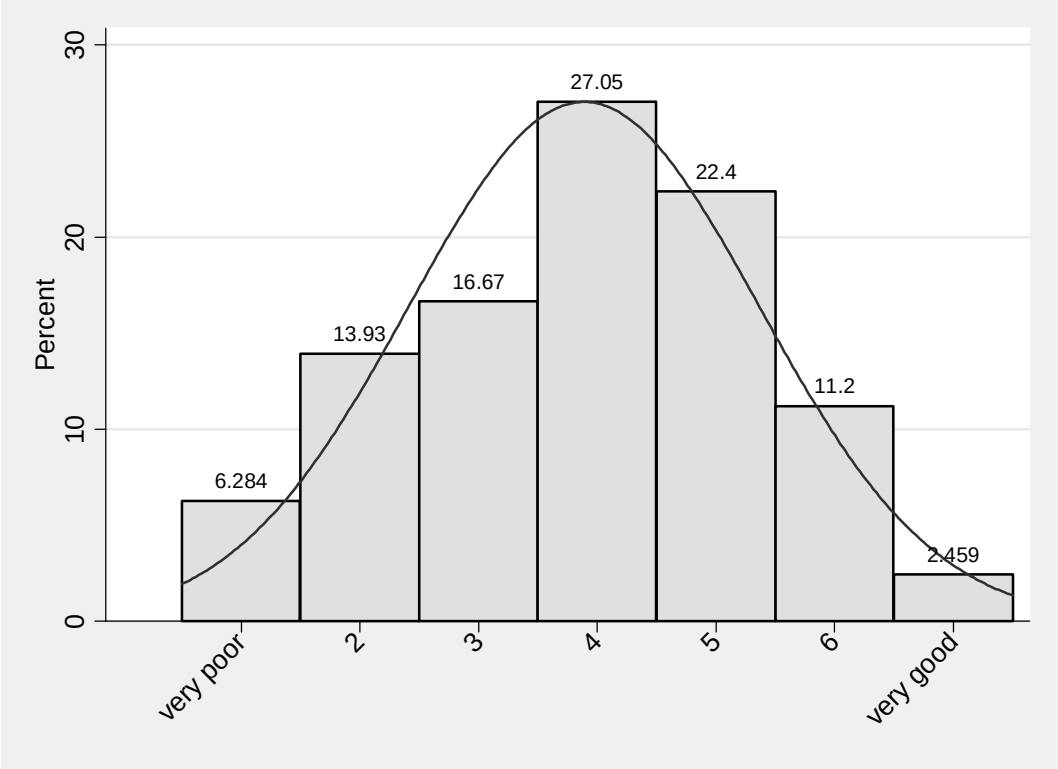


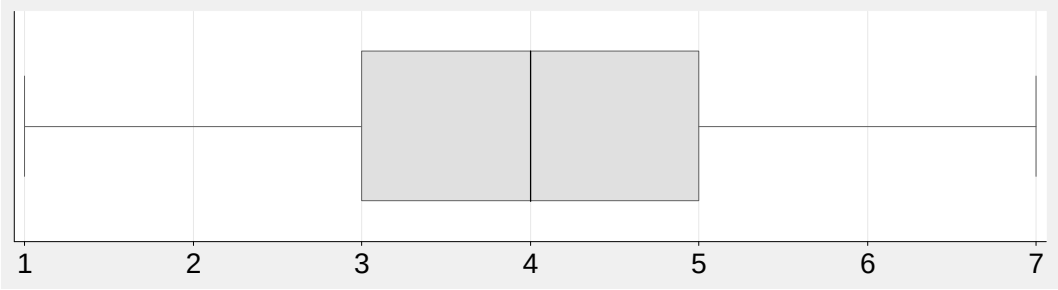


16g. model sea level rise for the next 10 years

very poor 1 2 3 4 5 6 7 very good

Variable	Obs	Mean	Std. Dev.	Min	Max
Q38	**366**	**3.887978**	**1.475282**	**1**	**7**

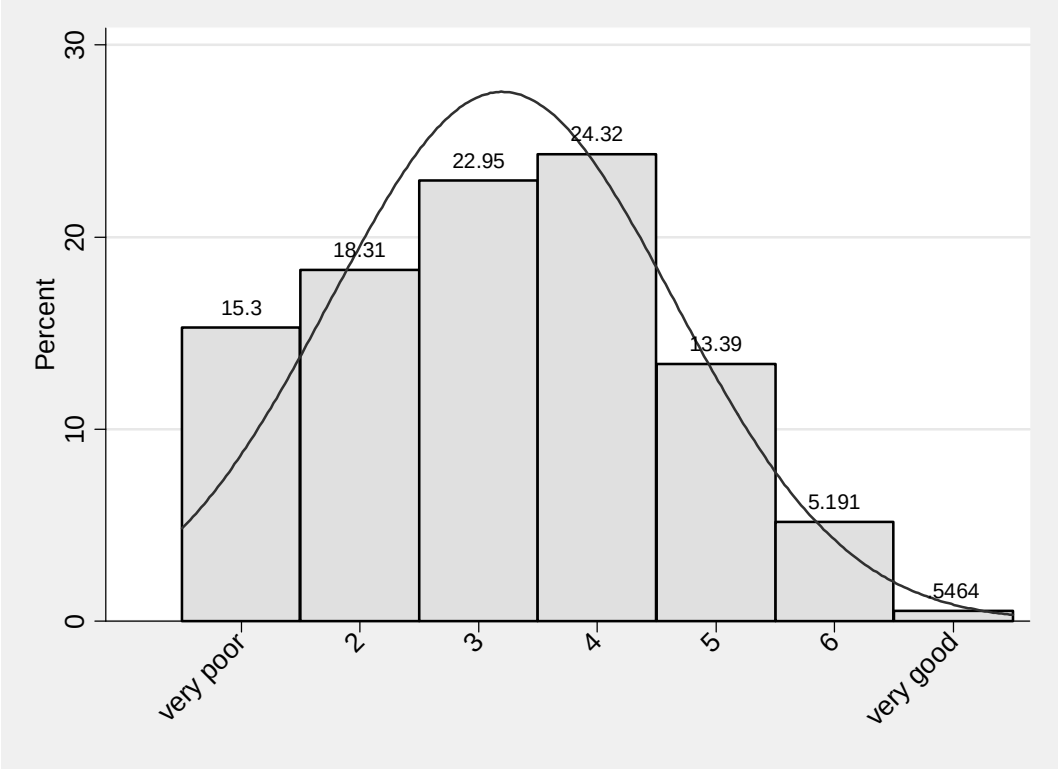


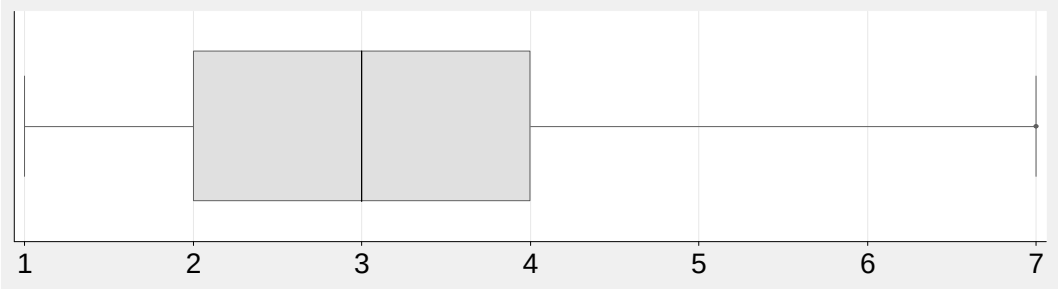


16h. model sea level rise for the next 50 years

very poor 1 2 3 4 5 6 7 very good

Variable	Obs	Mean	Std. Dev.	Min	Max
Q39	**366**	**3.199454**	**1.447189**	**1**	**7**

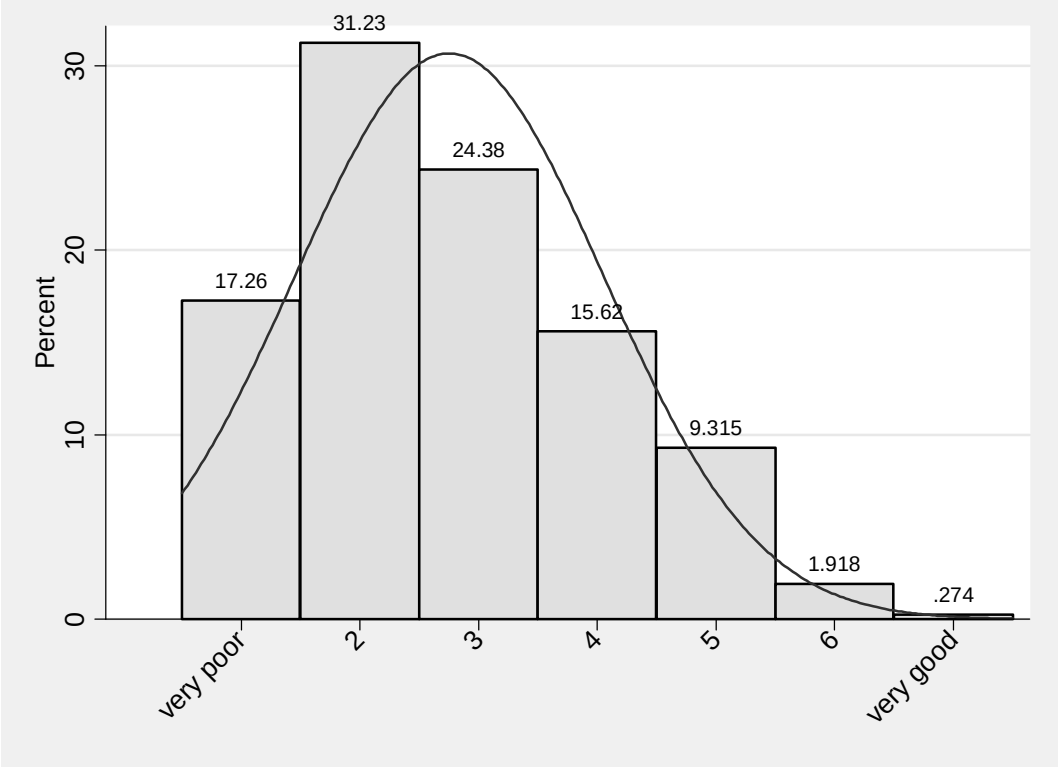


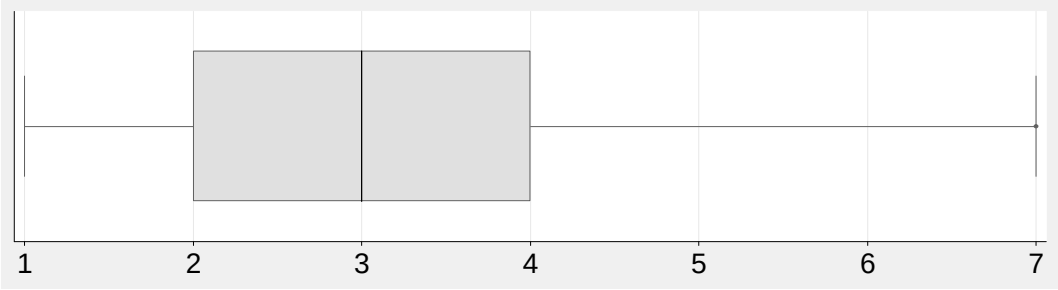


16i. model extreme events for the next 10 years

very poor 1 2 3 4 5 6 7 very good

Variable	Obs	Mean	Std. Dev.	Min	Max
Q40	**365**	**2.753425**	**1.300685**	**1**	**7**

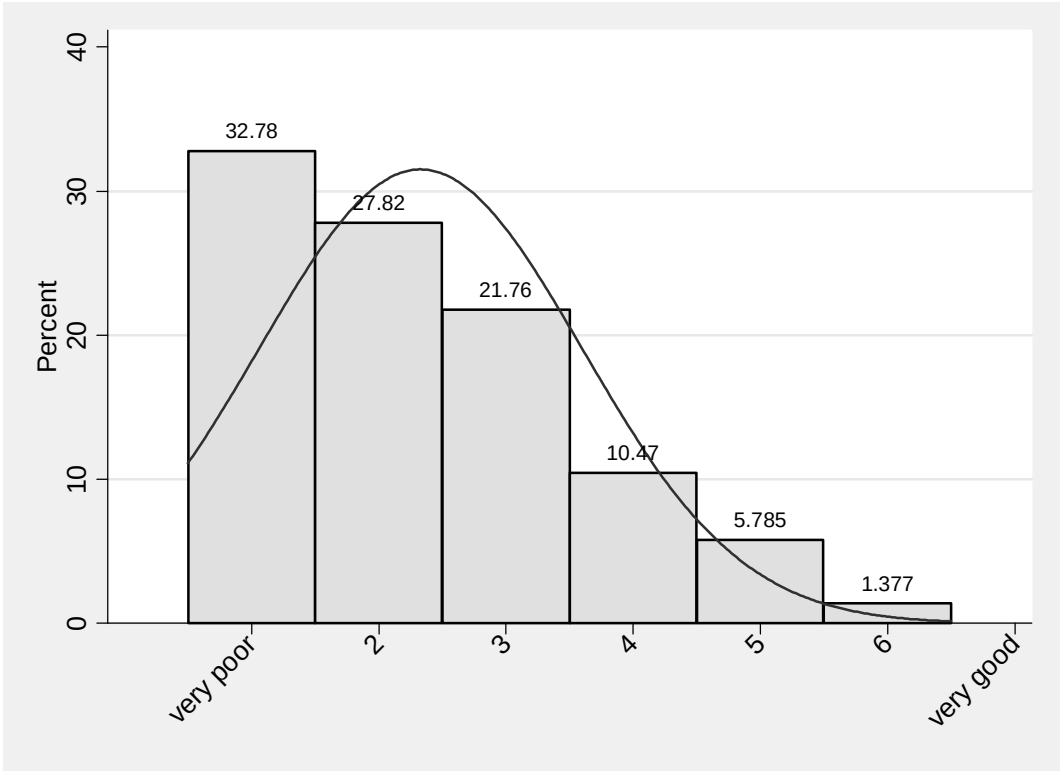


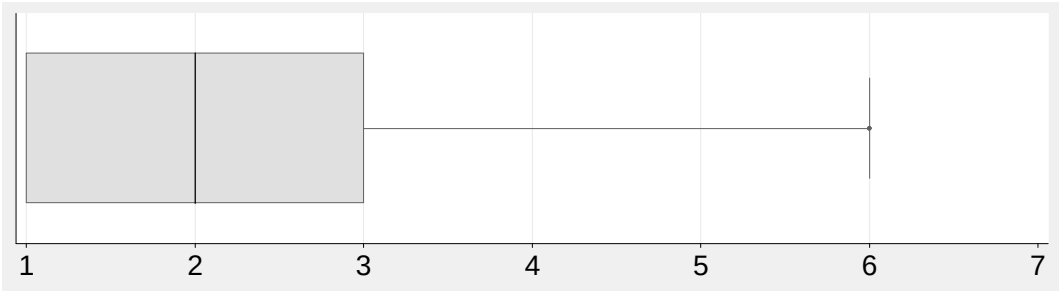


16j. model extreme events for the next 50 years

very poor 1 2 3 4 5 6 7 very good

Variable	Obs	Mean	Std. Dev.	Min	Max
Q41	**363**	**2.327824**	**1.265772**	**1**	**6**





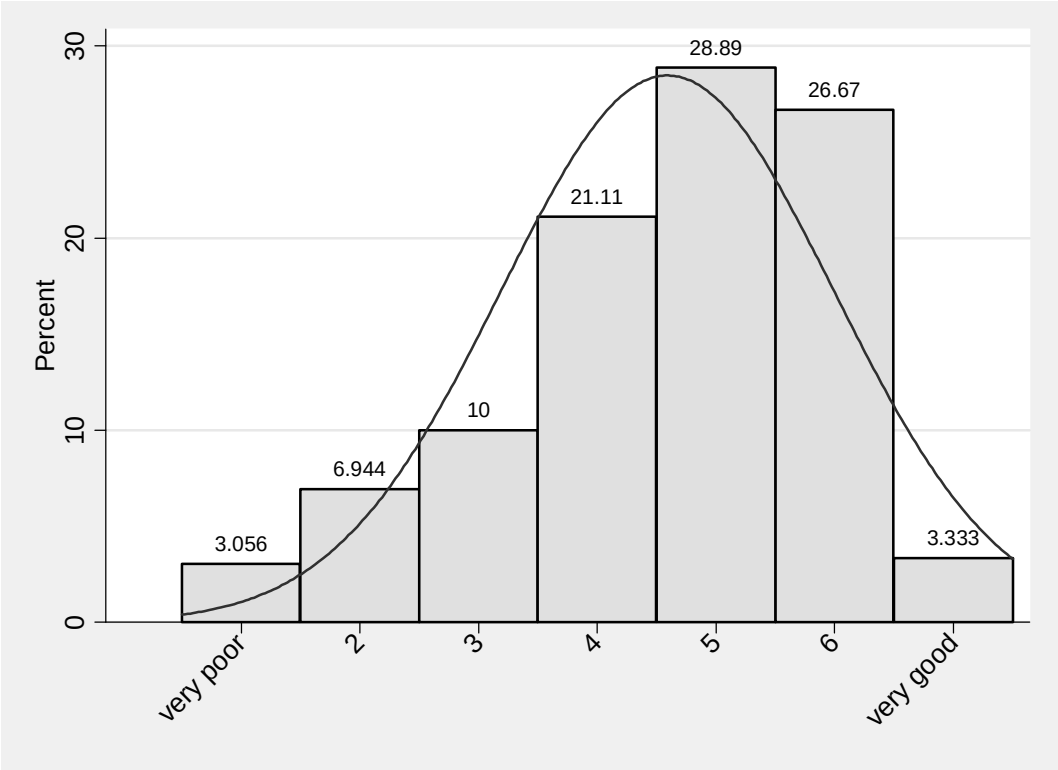
17. How would you rate the ability of *regional* climate models to:

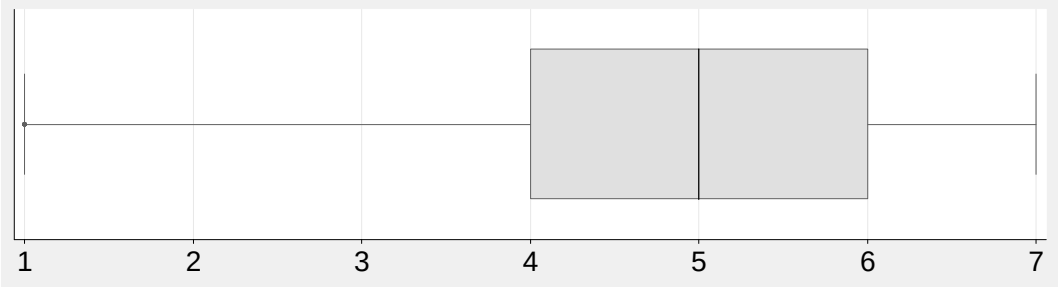
very poor 1 2 3 4 5 6 7 very good

17a. reproduce temperature observations

very poor 1 2 3 4 5 6 7 very good

Variable	Obs	Mean	Std. Dev.	Min	Max
Q42	**360**	**4.591667**	**1.401327**	**1**	**7**

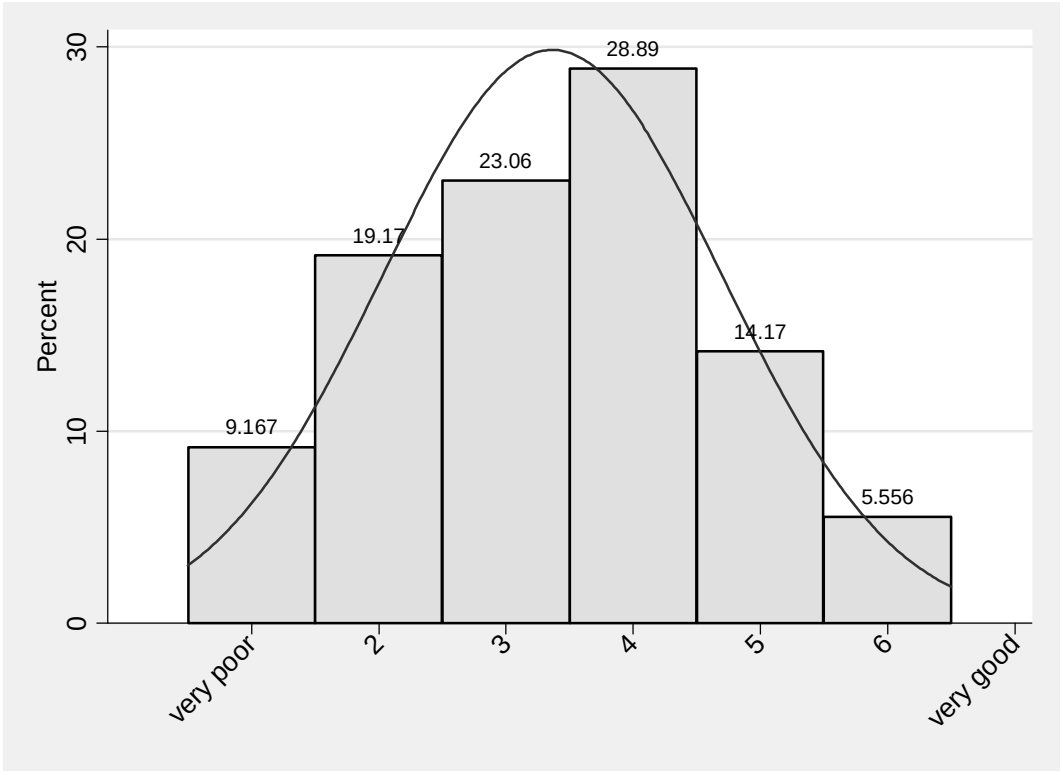


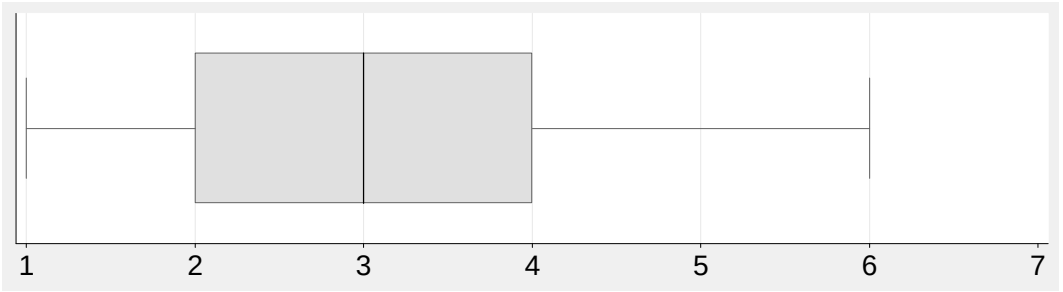


17b. reproduce precipitation observations

very poor 1 2 3 4 5 6 7 very good

Variable	Obs	Mean	Std. Dev.	Min	Max
Q43	**360**	**3.363889**	**1.336576**	**1**	**6**





17c. model temperature values for the next 10 years

very poor 1 2 3 4 5 6 7 very good

Variable	Obs	Mean	Std. Dev.	Min	Max
Q44	356	3.825843	1.498546	1	7

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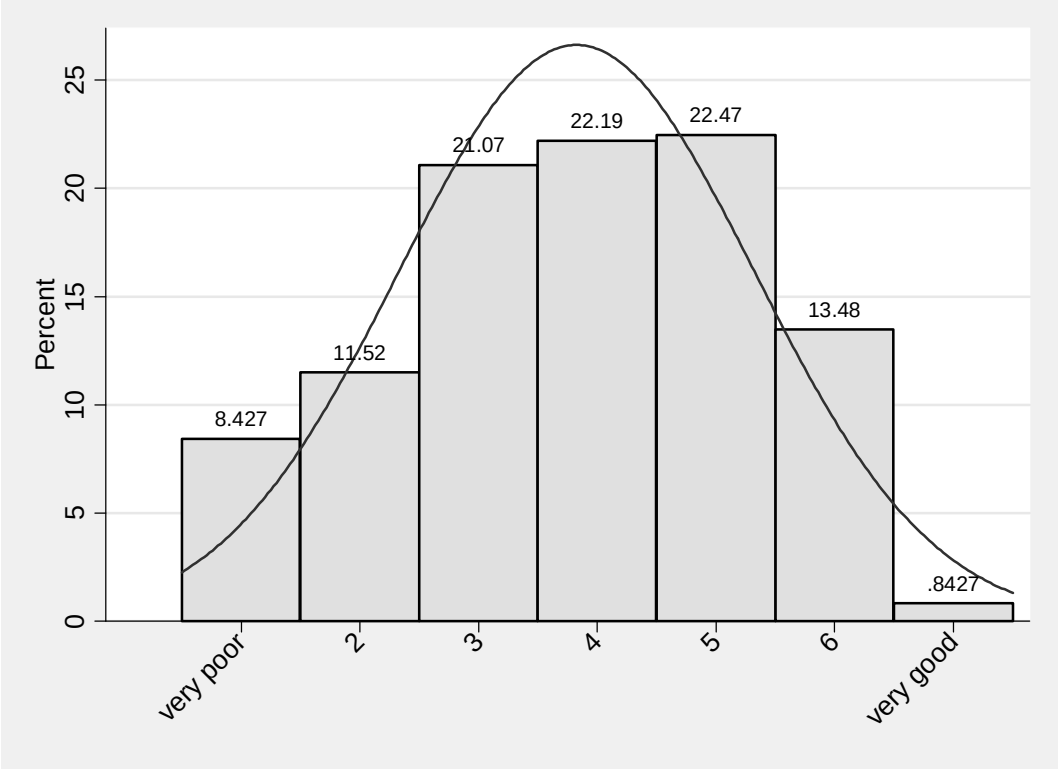
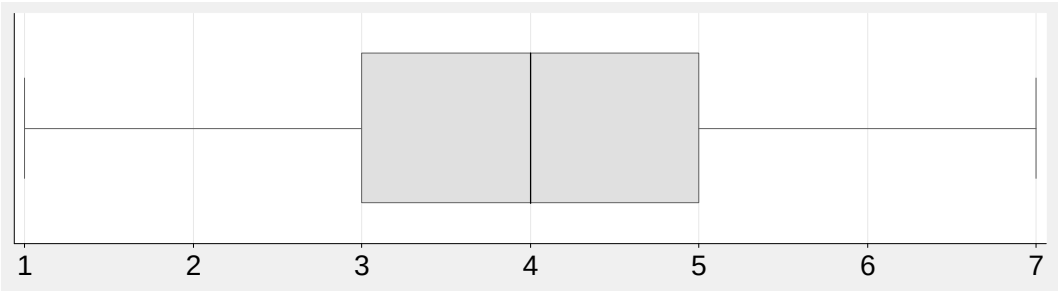
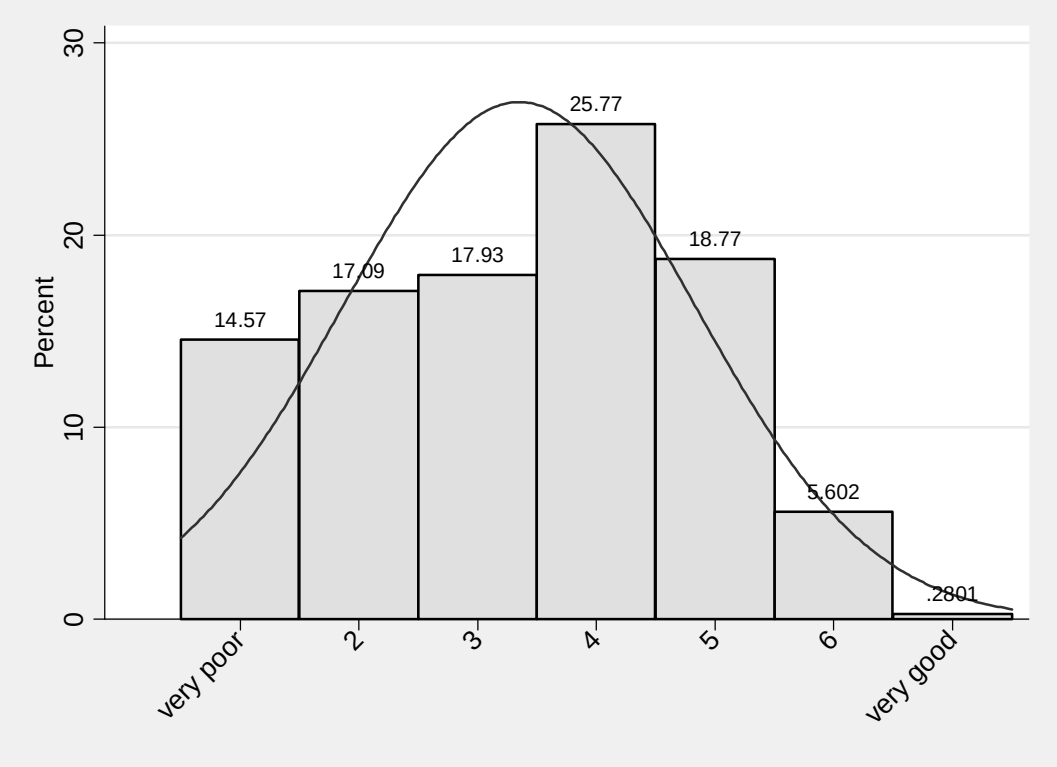


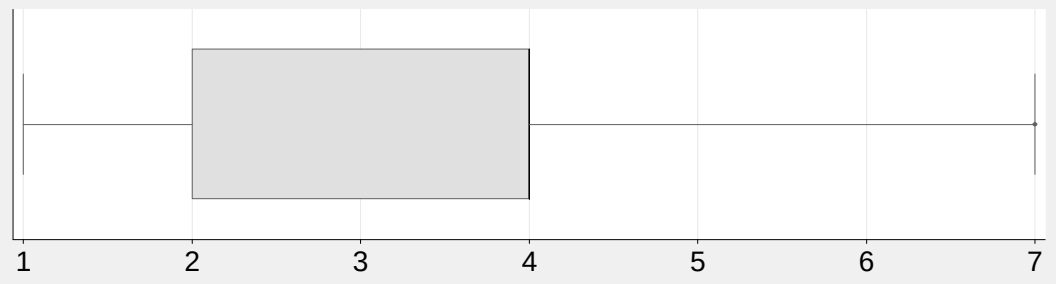


17d. model temperature values for the next 50 years

very poor 1 2 3 4 5 6 7 very good

Variable	Obs	Mean	Std. Dev.	Min	Max
Q45	**357**	**3.35014**	**1.481375**	**1**	**7**

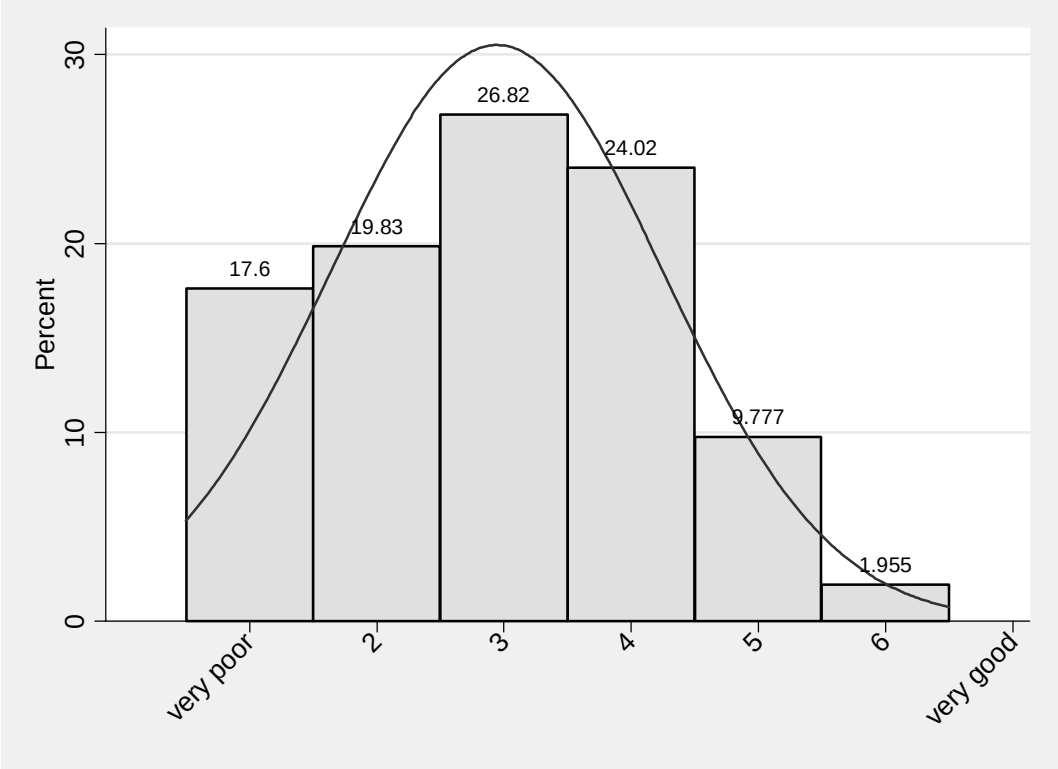


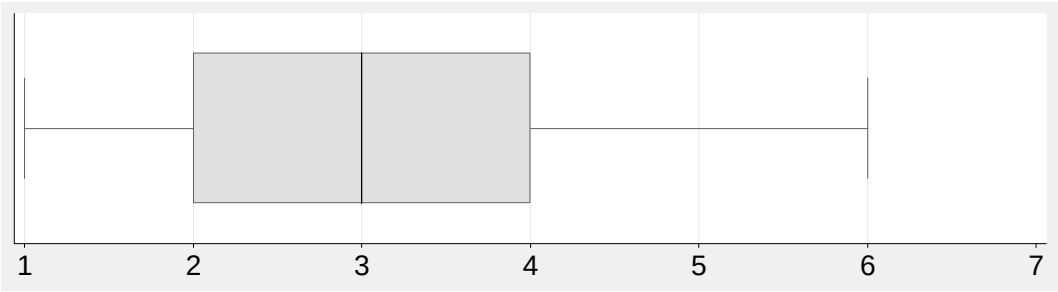


17e. model precipitation values for the next 10 years

very poor 1 2 3 4 5 6 7 very good

Variable	Obs	Mean	Std. Dev.	Min	Max
Q46	**358**	**2.944134**	**1.308112**	**1**	**6**

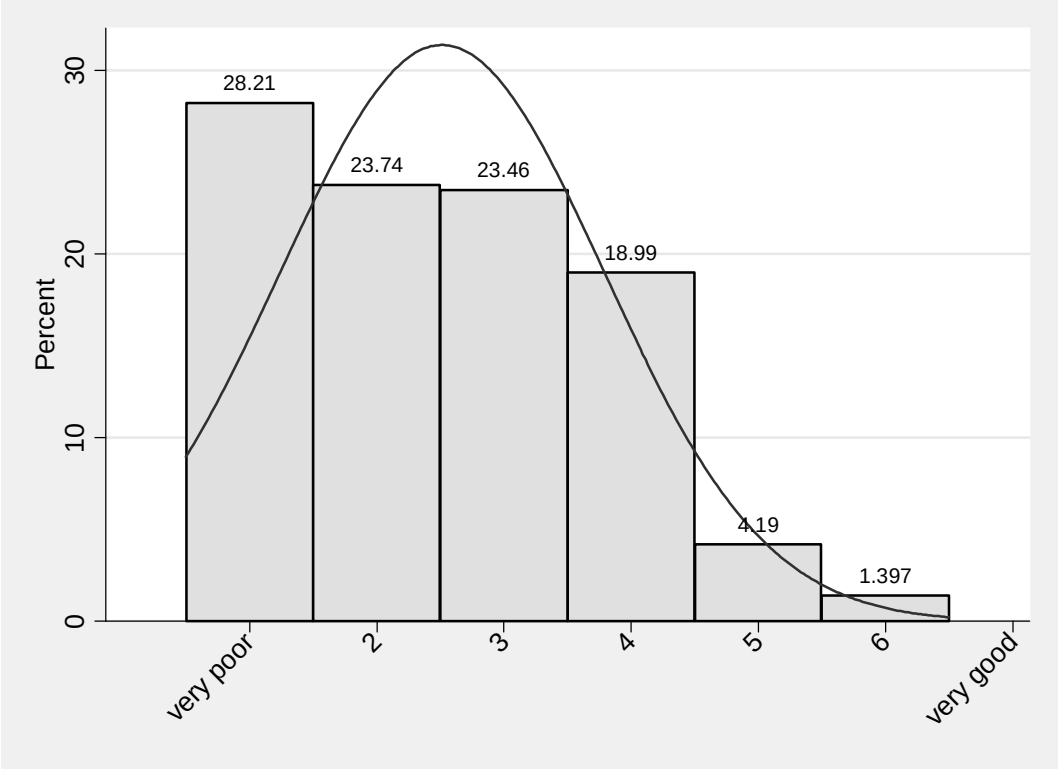


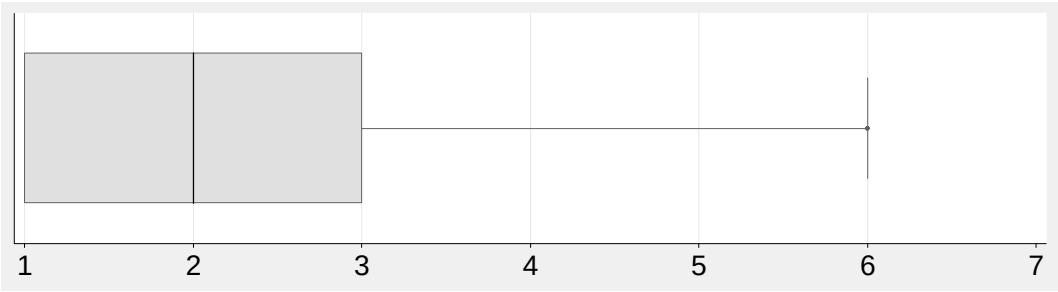


17f. model precipitation values for the next 50 years

very poor 1 2 3 4 5 6 7 very good

Variable	Obs	Mean	Std. Dev.	Min	Max
Q47	**358**	**2.513966**	**1.271791**	**1**	**6**

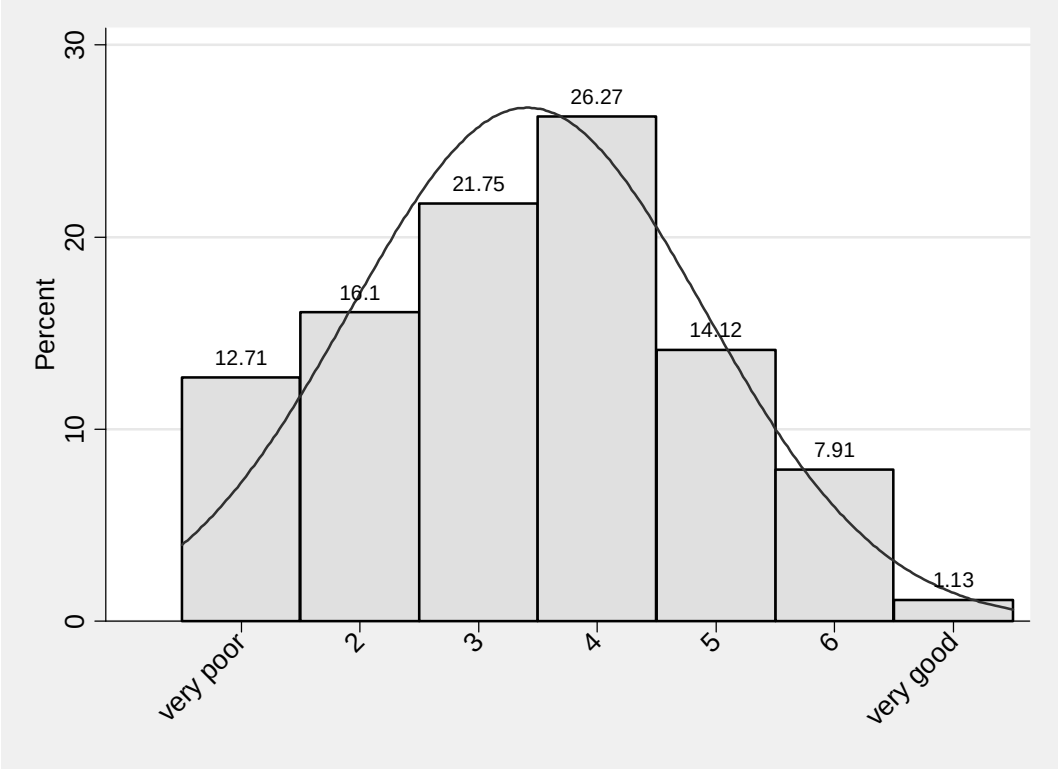


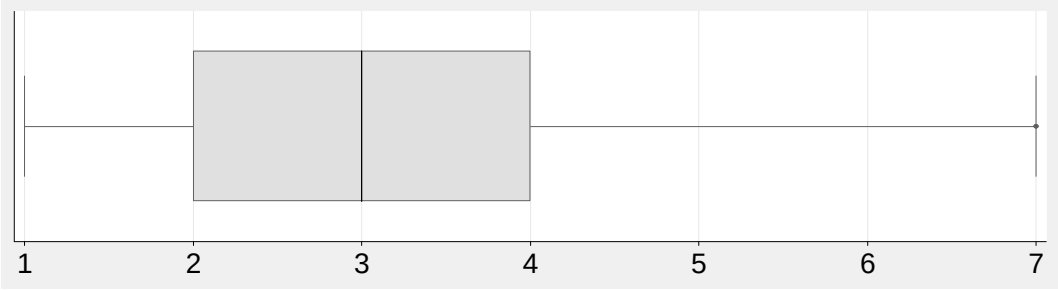


17g. model sea level rise for the next 10 years

very poor 1 2 3 4 5 6 7 very good

Variable	Obs	Mean	Std. Dev.	Min	Max
Q48	**354**	**3.412429**	**1.491985**	**1**	**7**

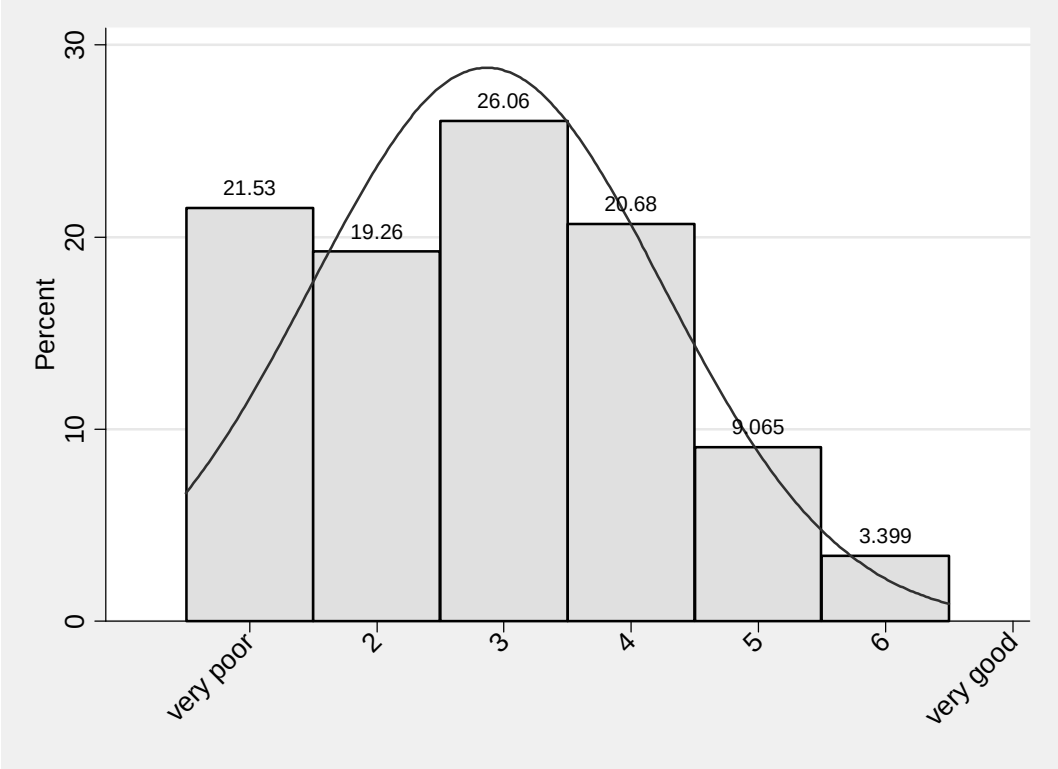


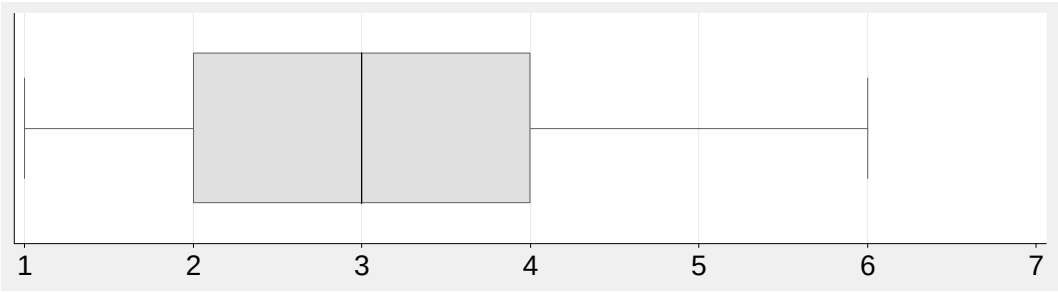


17h. model sea level rise for the next 50 years

very poor 1 2 3 4 5 6 7 very good

Variable	Obs	Mean	Std. Dev.	Min	Max
Q49	**353**	**2.866856**	**1.384515**	**1**	**6**

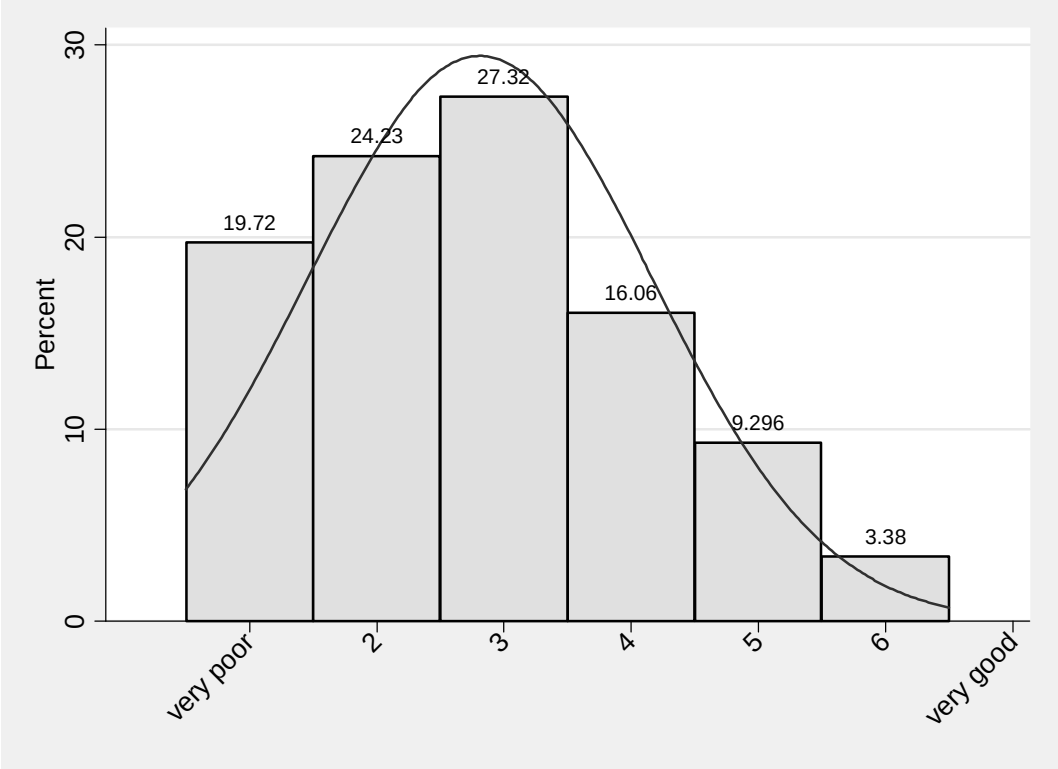


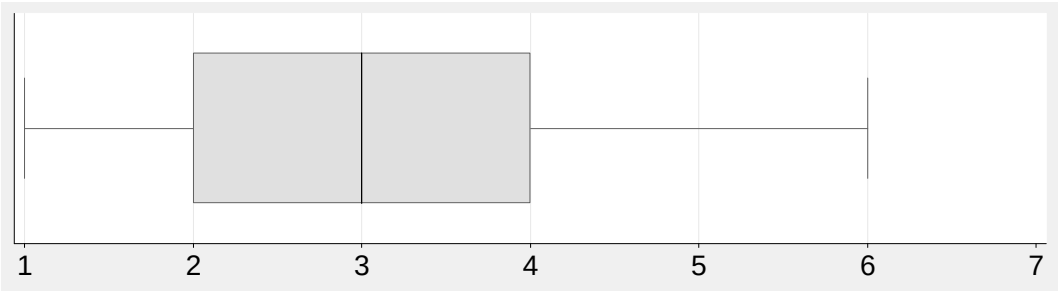


17i. model extreme events for the next 10 years

very poor 1 2 3 4 5 6 7 very good

Variable	Obs	Mean	Std. Dev.	Min	Max
Q50	**355**	**2.811268**	**1.355419**	**1**	**6**

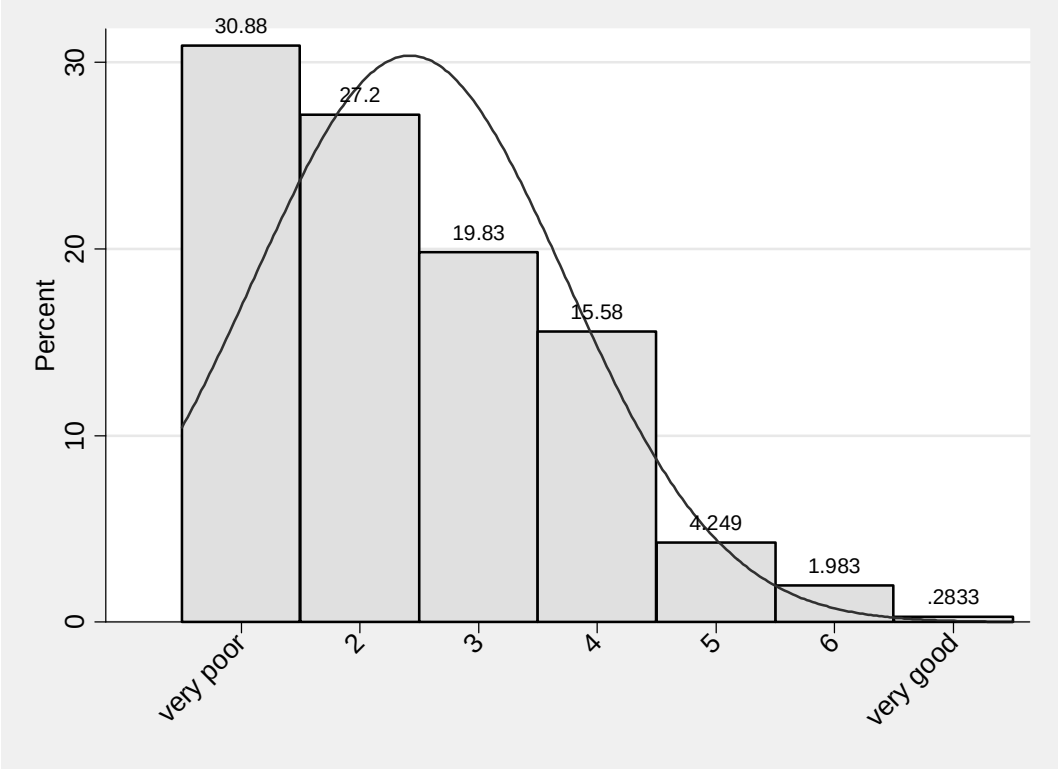


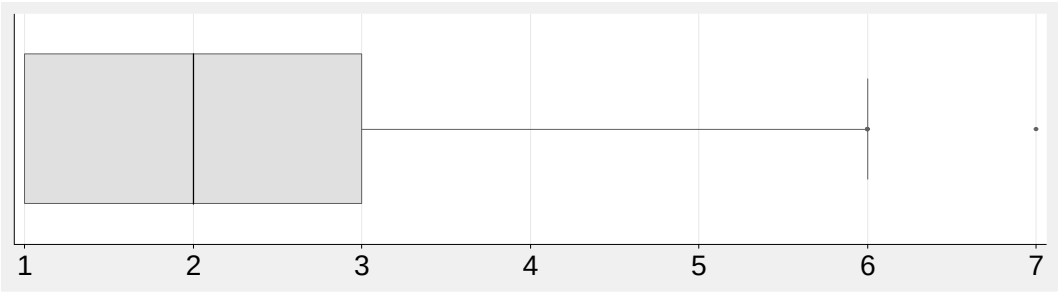


17j. model extreme events for the next 50 years

very poor 1 2 3 4 5 6 7 very good

Variable	Obs	Mean	Std. Dev.	Min	Max
Q51	**353**	**2.422096**	**1.314374**	**1**	**7**





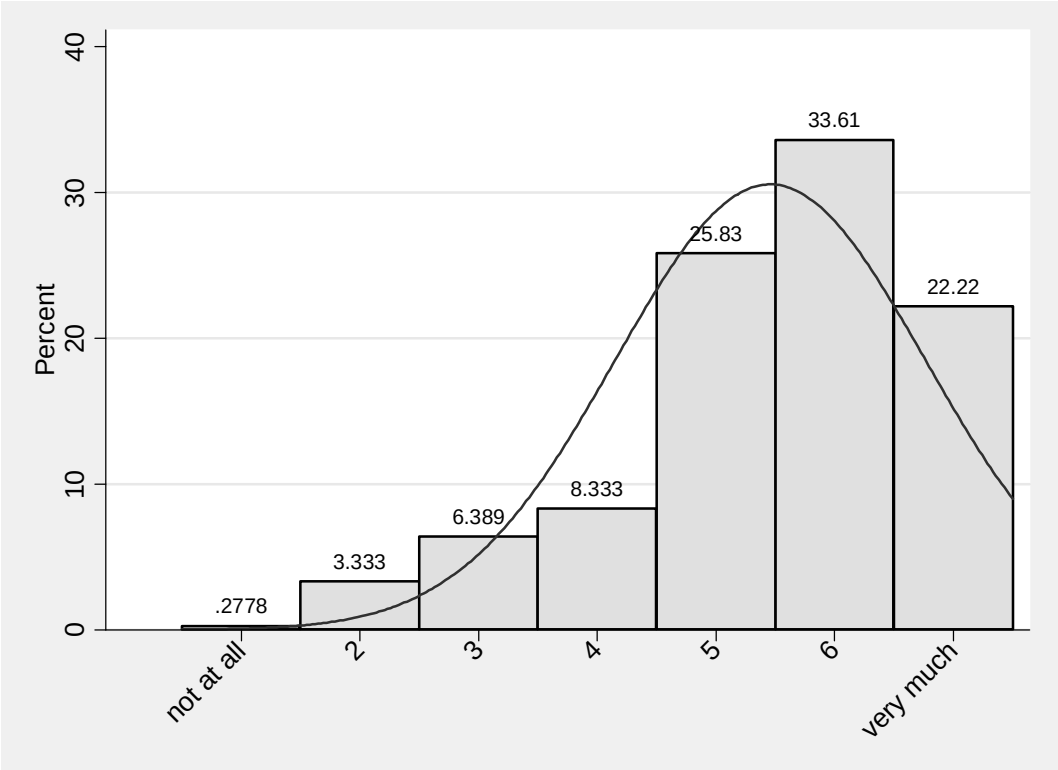
18. How relevant is the study of paleoclimatology to the understanding of:

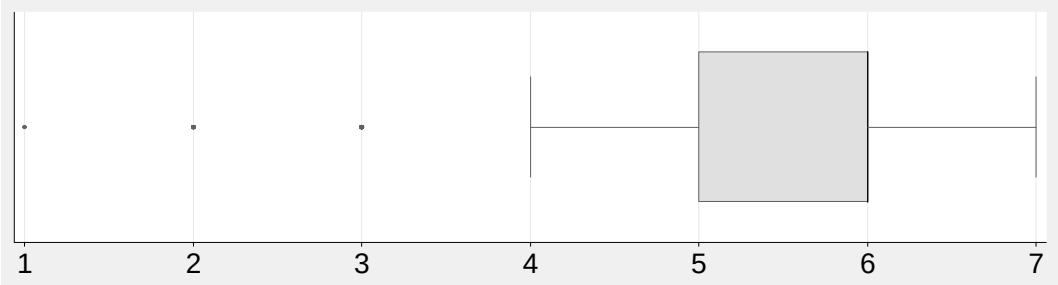
Not at all 1 2 3 4 5 6 7 very much

18a. climate sensitivity

Not at all 1 2 3 4 5 6 7 very much

Variable	Obs	Mean	Std. Dev.	Min	Max
Q52	**360**	**5.458333**	**1.304988**	**1**	**7**

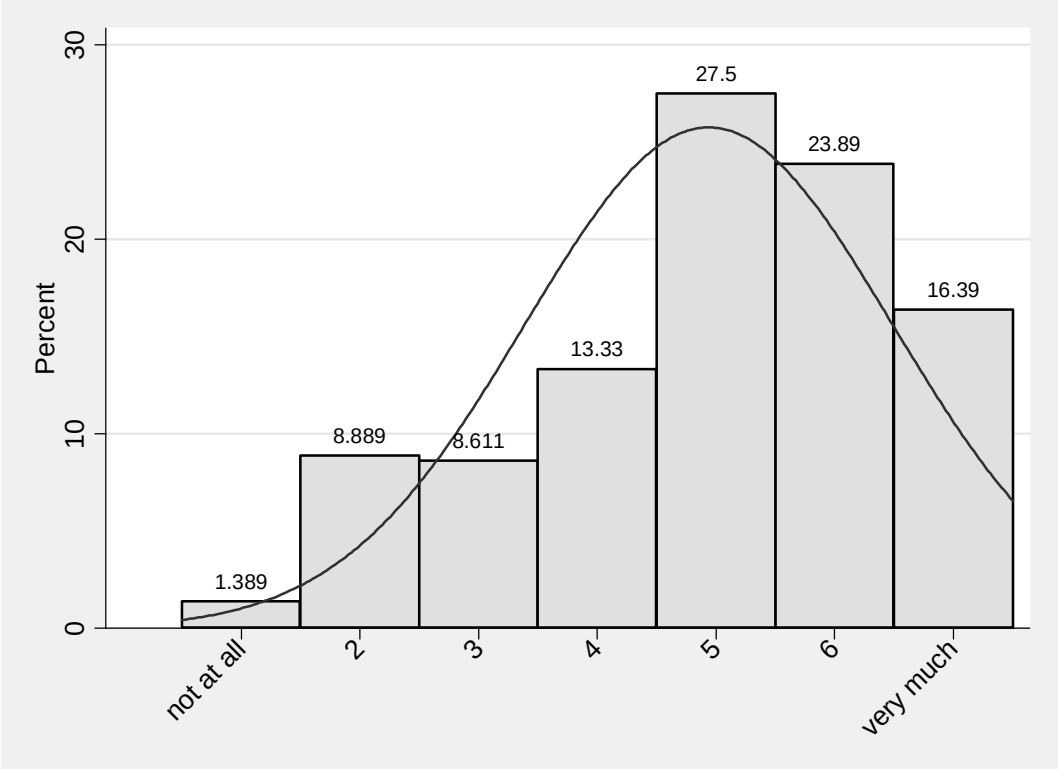


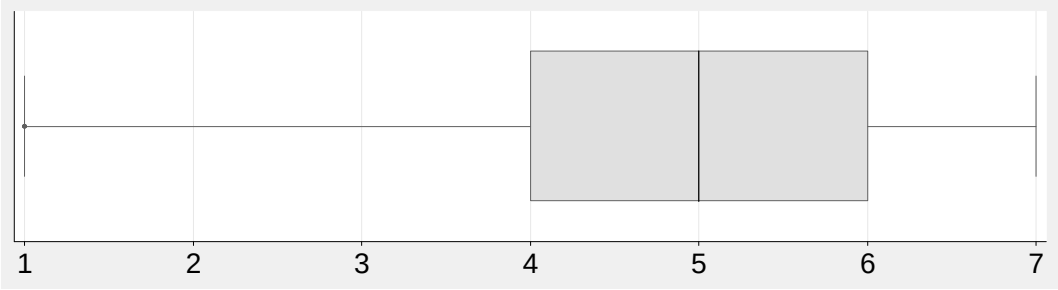


18b. anthropogenic induced climate change

Not at all 1 2 3 4 5 6 7 very much

Variable	Obs	Mean	Std. Dev.	Min	Max
Q53	**360**	**4.938889**	**1.548344**	**1**	**7**





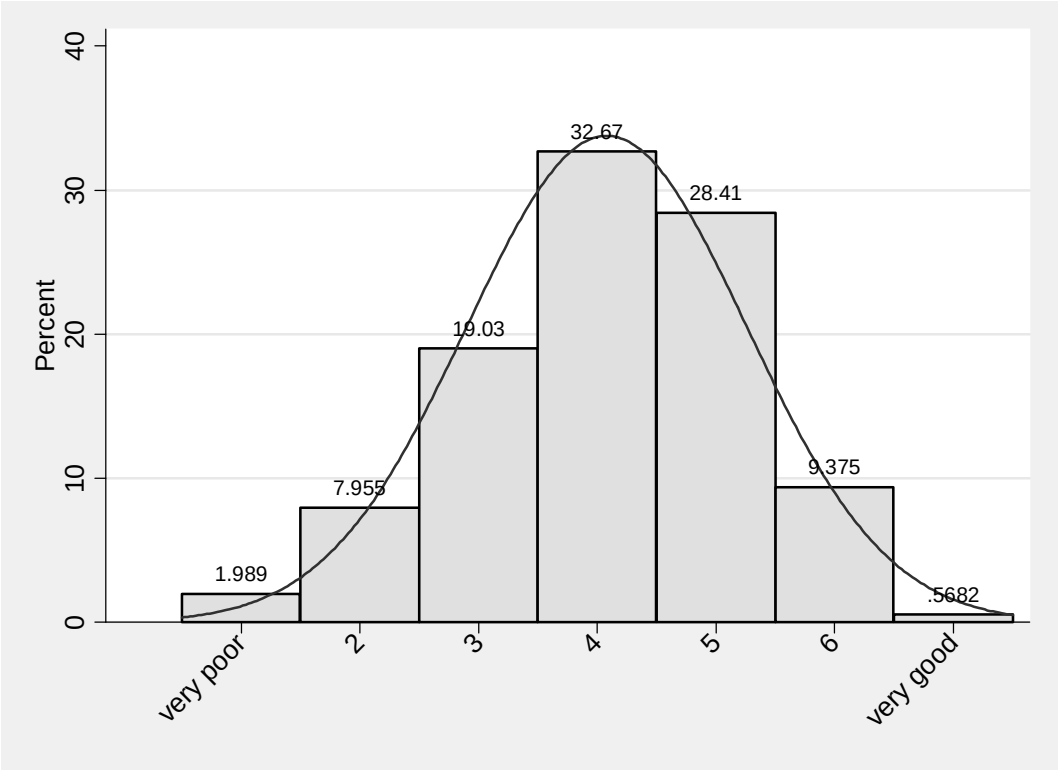
19. How would you rate the ability of paleo models to reproduce:

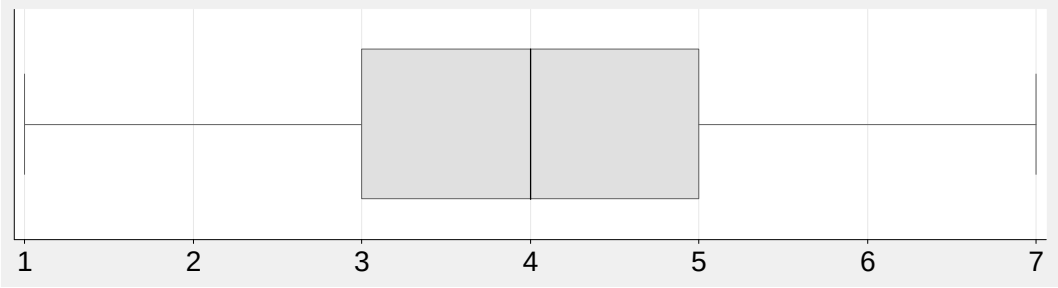
very poor 1 2 3 4 5 6 7 very good

19a. proxy temperature observations

very poor 1 2 3 4 5 6 7 very good

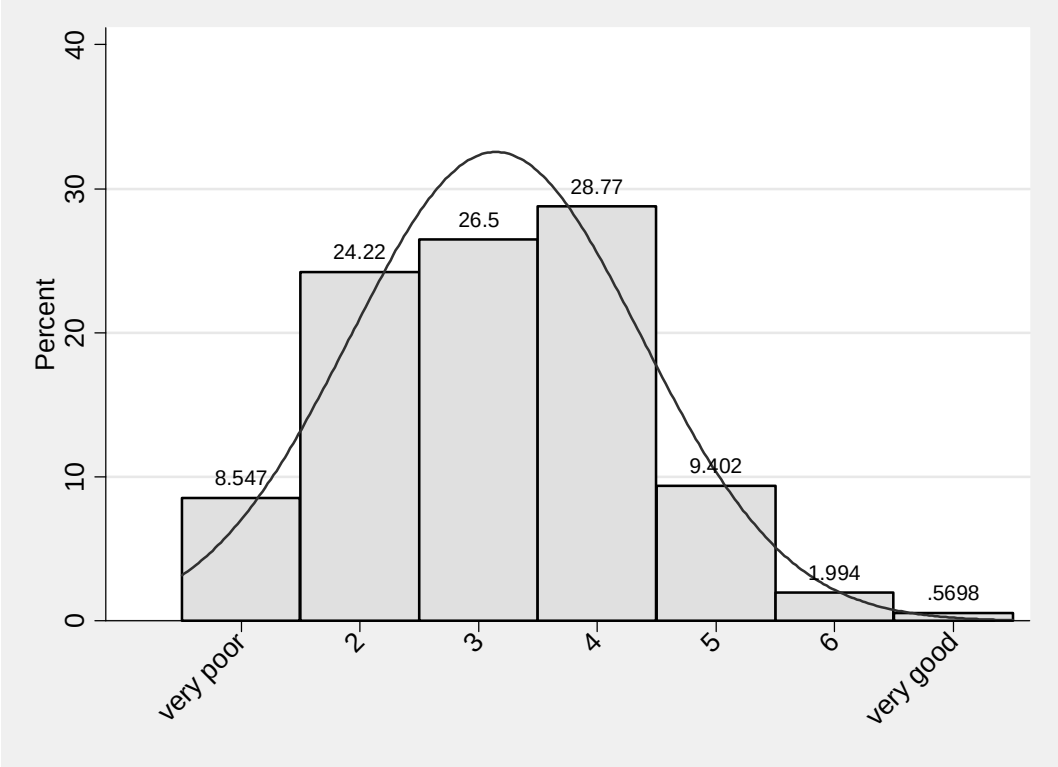
Variable	Obs	Mean	Std. Dev.	Min	Max
Q54	**352**	**4.079545**	**1.181255**	**1**	**7**

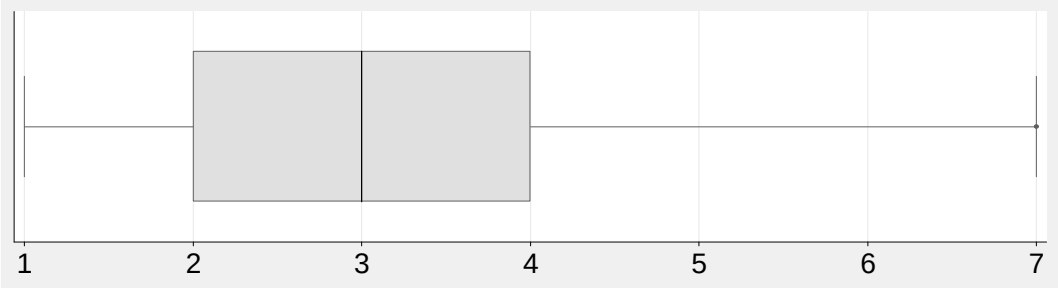




19b. proxy precipitation observations

Variable	Obs	Mean	Std. Dev.	Min	Max
Q55	351	3.145299	1.225433	1	7





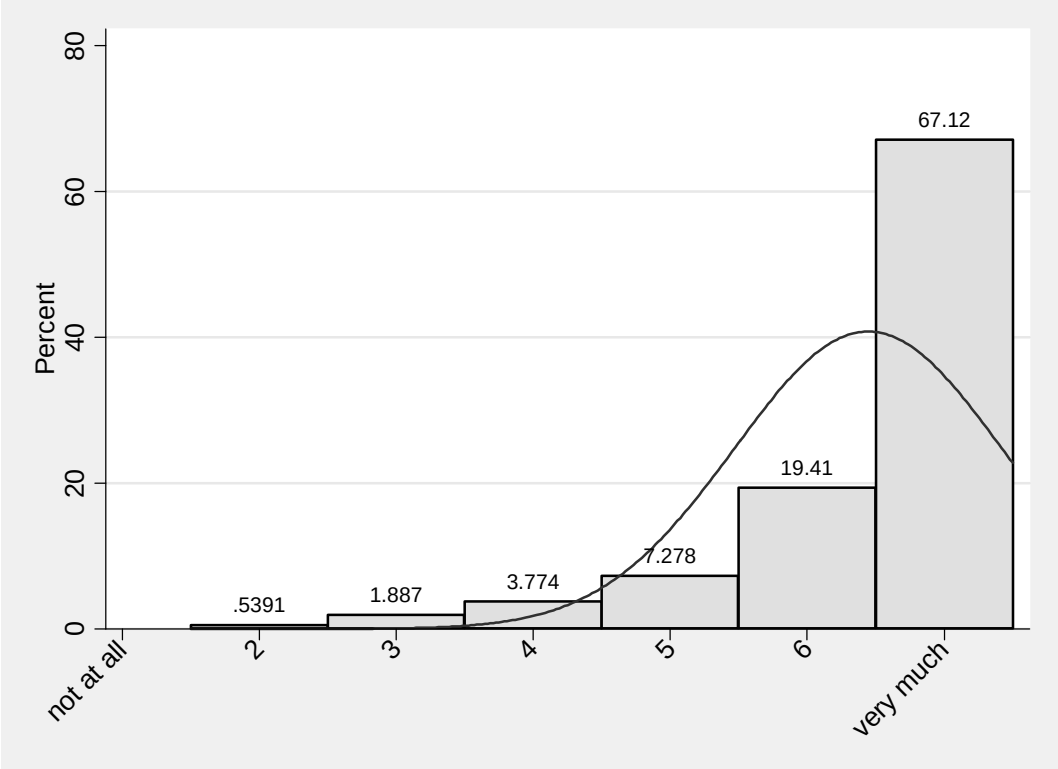
Climate Change Impacts

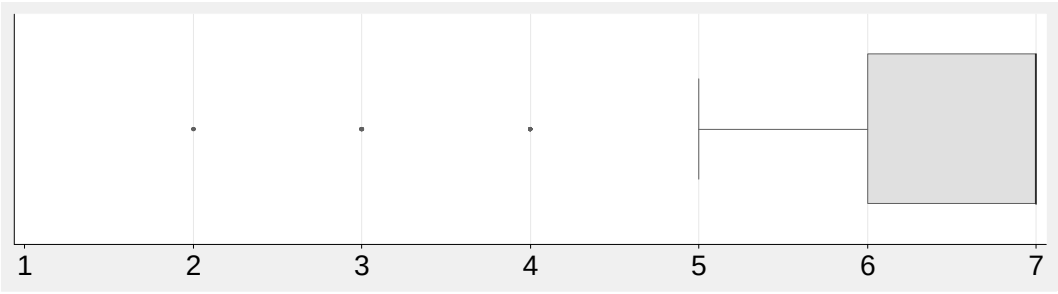
In this section we would like to ask some questions concerning the impacts of climate change.

20. How convinced are you that climate change, whether natural or anthropogenic, is occurring now?

not at all 1 2 3 4 5 6 7 very much

Variable	Obs	Mean	Std. Dev.	Min	Max
Q56	**371**	**6.444744**	**.9776105**	**2**	**7**

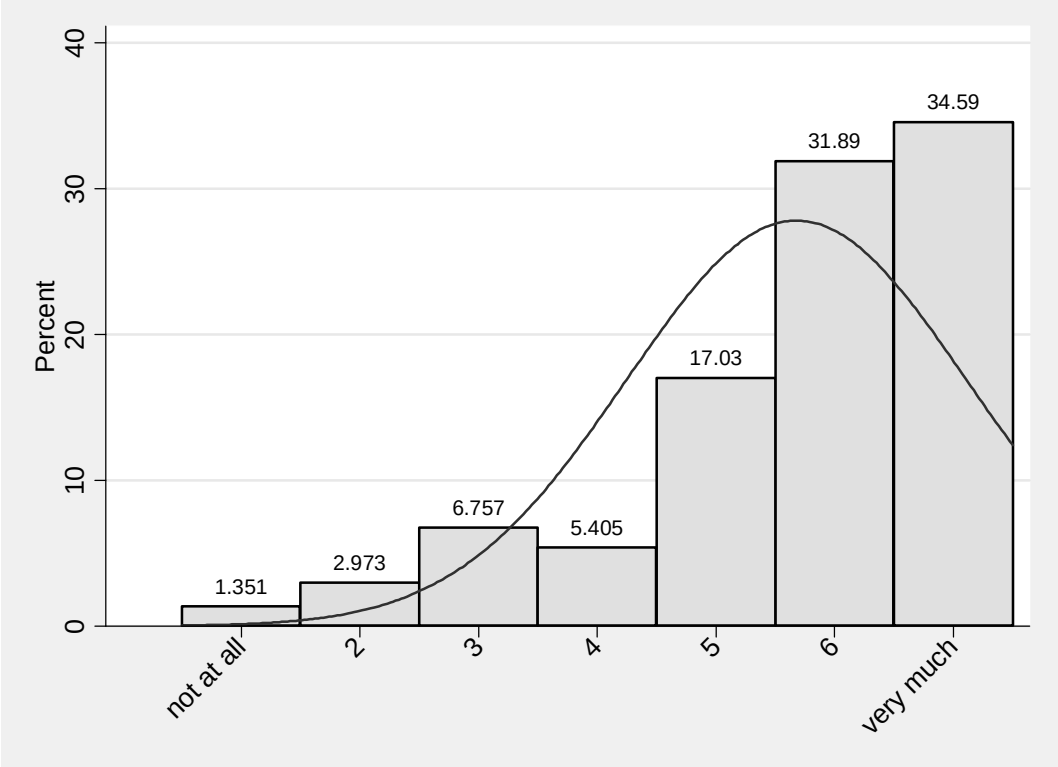


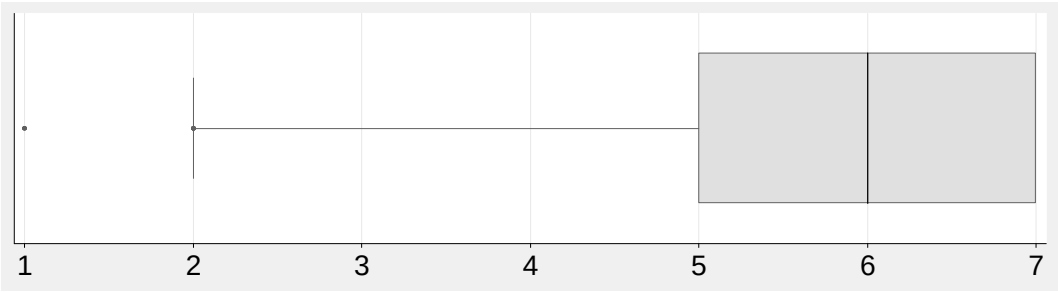


21. How convinced are you that most of recent or near future climate change is, or will be, a result of anthropogenic causes?

not at all 1 2 3 4 5 6 7 very much

Variable	Obs	Mean	Std. Dev.	Min	Max
Q57	**370**	**5.678378**	**1.433935**	**1**	**7**

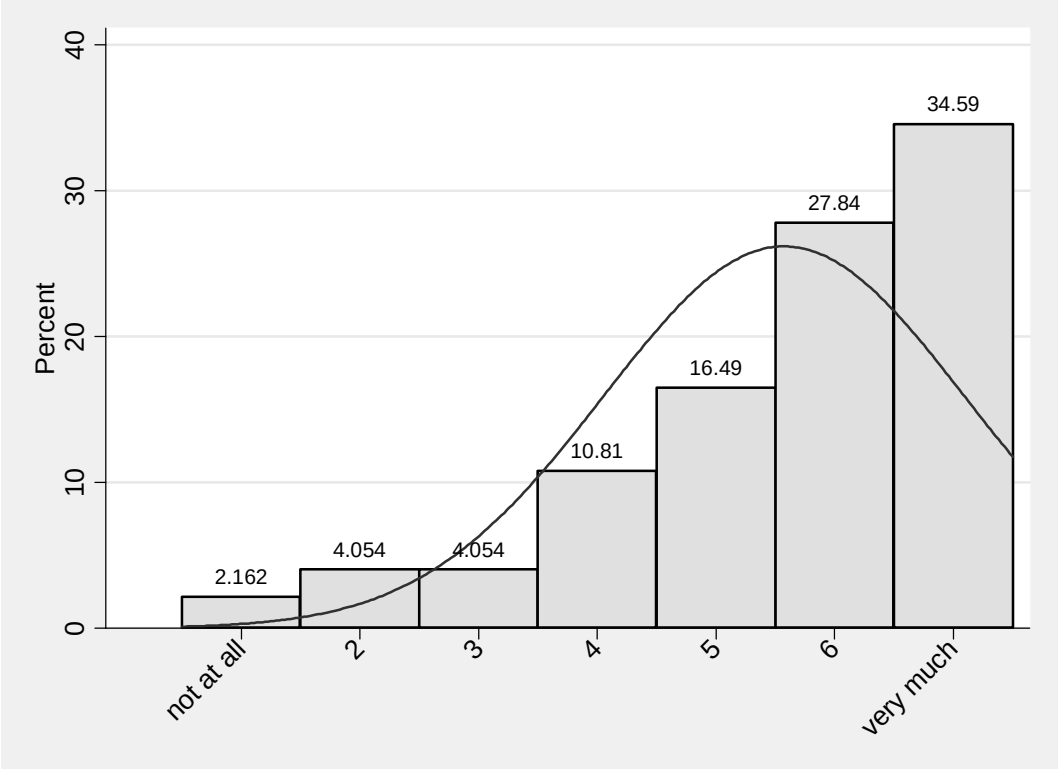


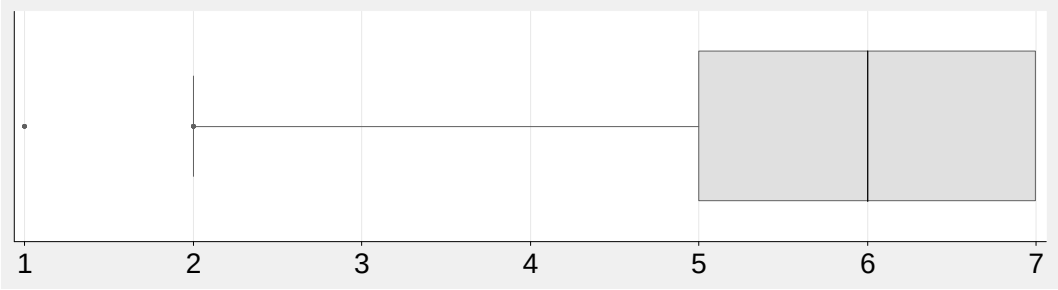


22. How convinced are you that climate change poses a very serious and dangerous threat to humanity?

not at all 1 2 3 4 5 6 7 very much

Variable	Obs	Mean	Std. Dev.	Min	Max
Q58	**370**	**5.572973**	**1.523555**	**1**	**7**

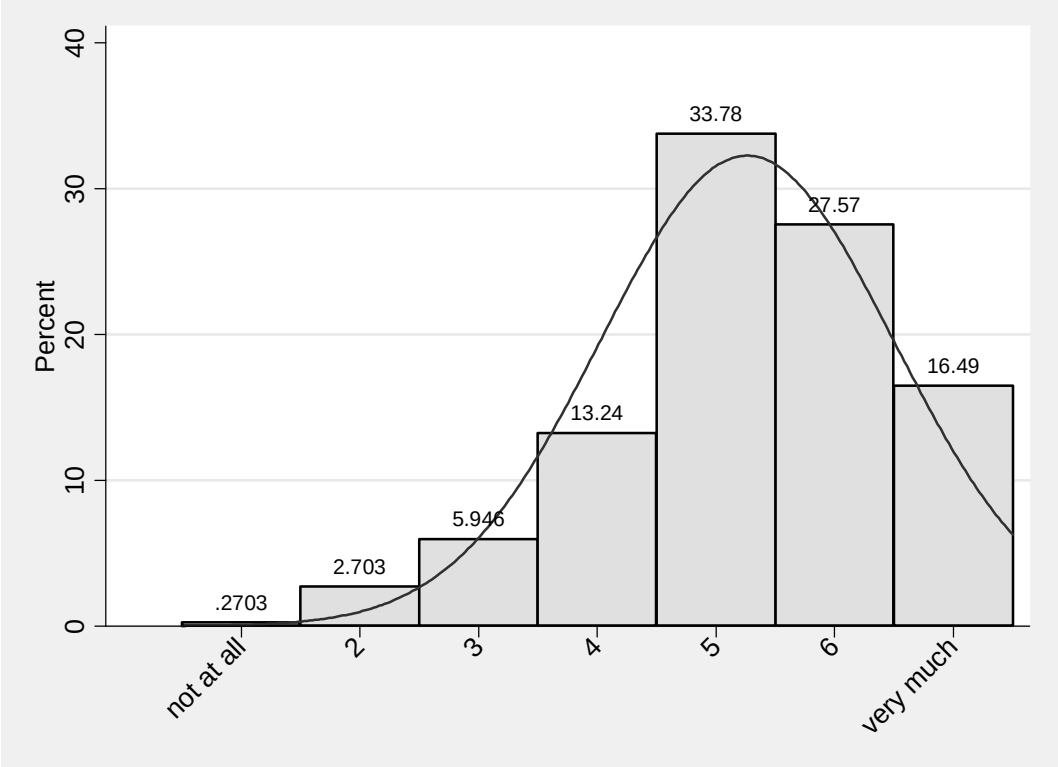


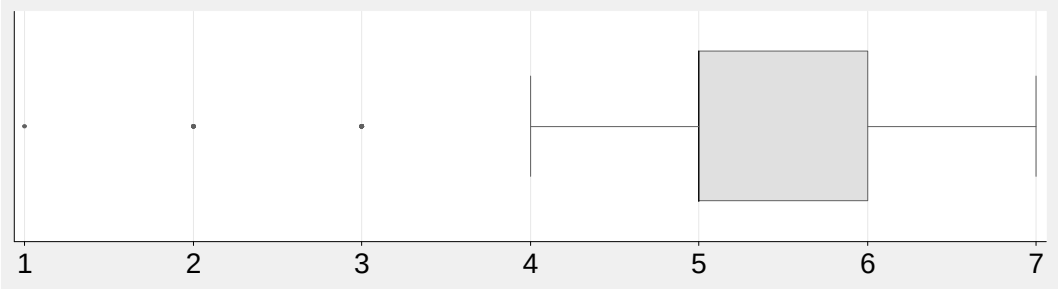


23. How much are we beginning to experience the more gradual impacts of climate change, anthropogenic or otherwise?

not at all 1 2 3 4 5 6 7 very much

Variable	Obs	Mean	Std. Dev.	Min	Max
Q59	**370**	**5.262162**	**1.235836**	**1**	**7**

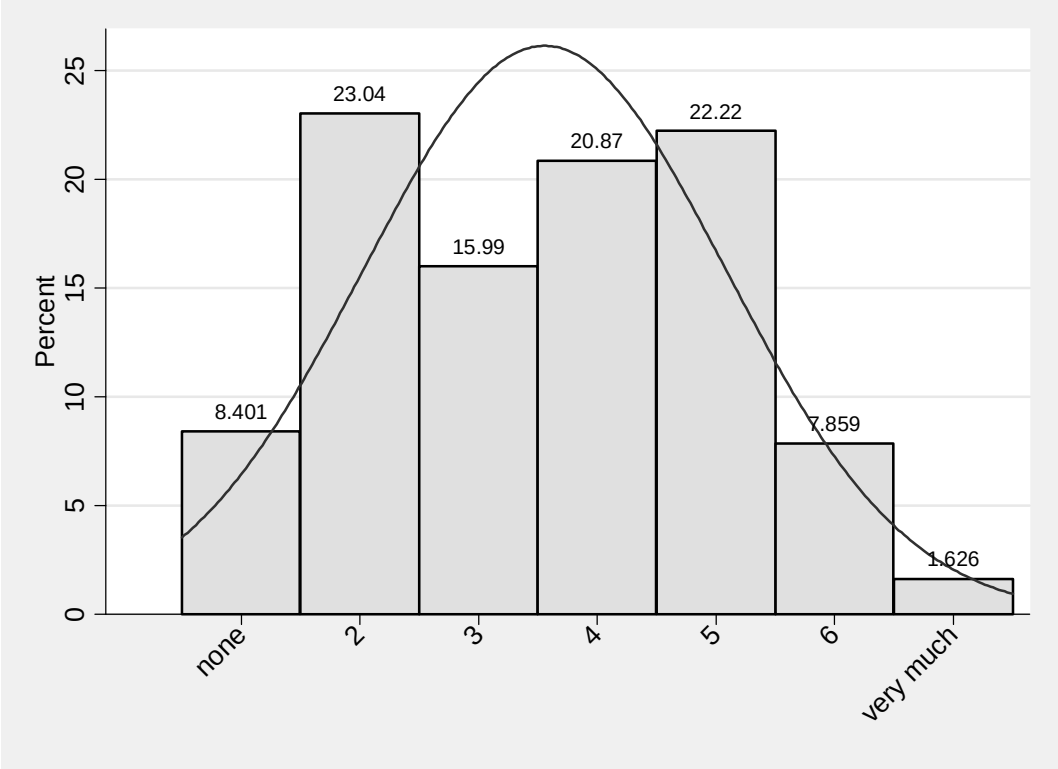


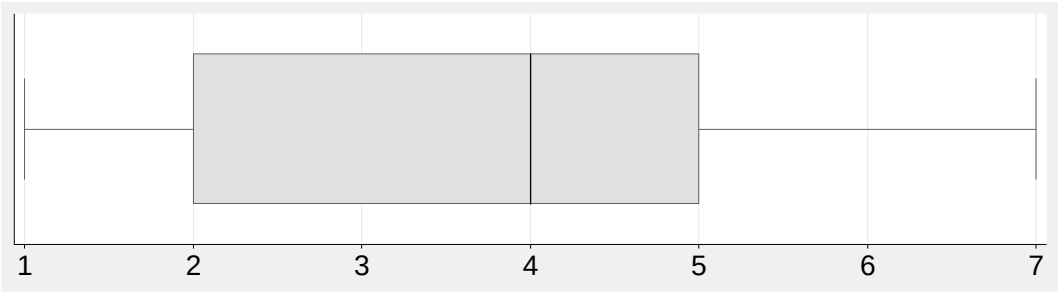


24. With how much certainty can we attribute recent climate related disasters to climate change?

not at all 1 2 3 4 5 6 7 very much

Variable	Obs	Mean	Std. Dev.	Min	Max
Q60	**369**	**3.555556**	**1.526141**	**1**	**7**





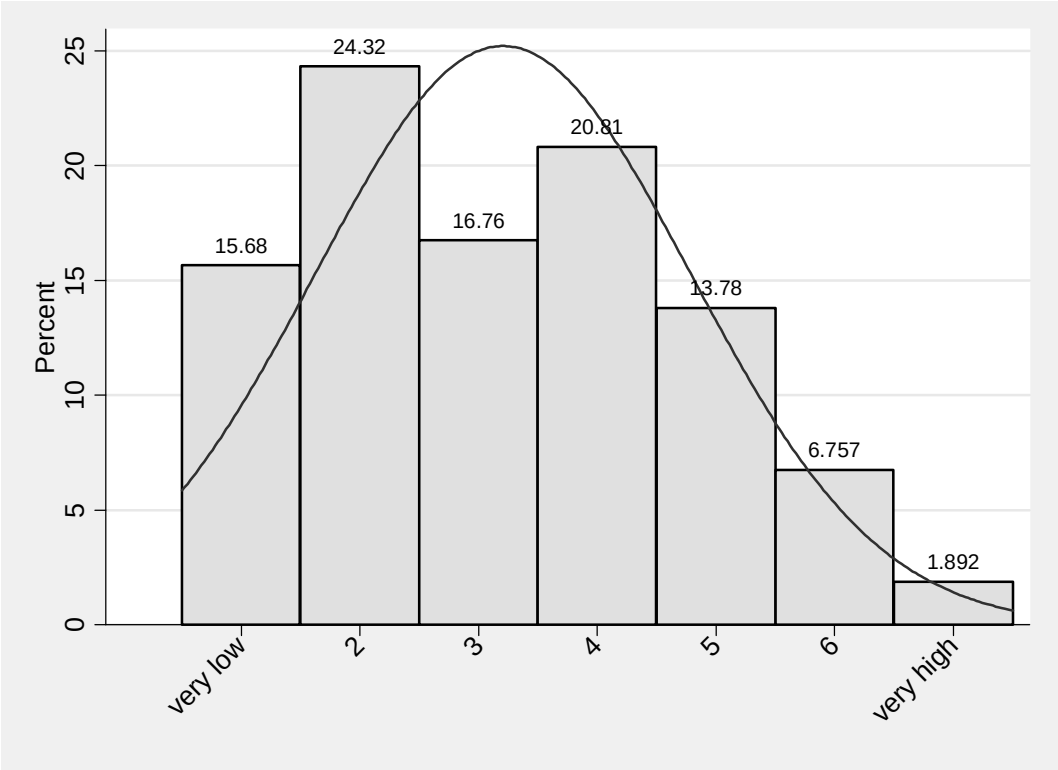
25. If we do not do anything towards adaptation or mitigation, the potential for catastrophe resulting from climate change for *the country in which you live* :

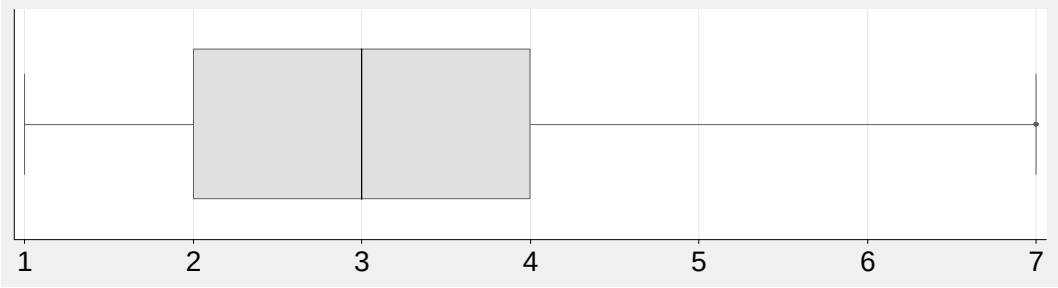
very low 1 2 3 4 5 6 7 very high

25a. in the next 10 years is

very low 1 2 3 4 5 6 7 very high

Variable	Obs	Mean	Std. Dev.	Min	Max
Q61	**370**	**3.205405**	**1.582757**	**1**	**7**

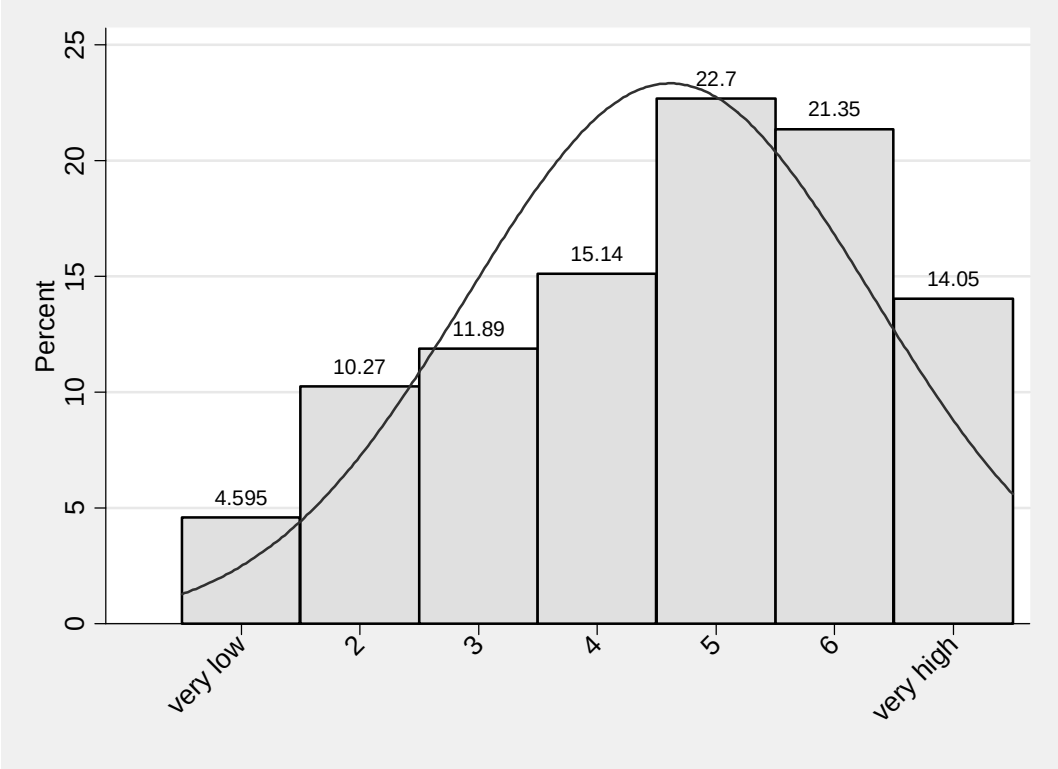


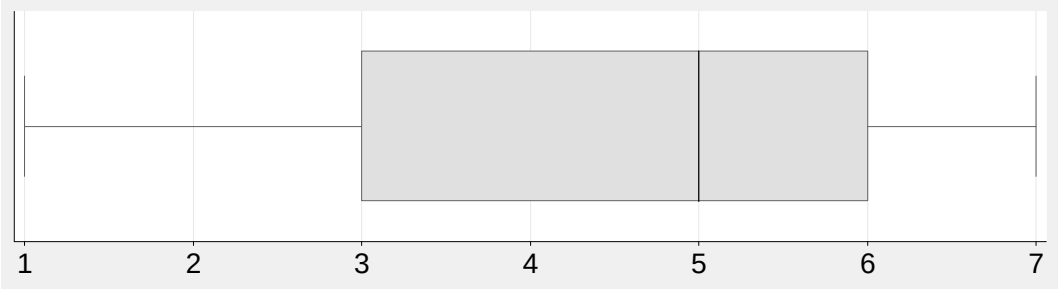


25b. in the next 50 years is

very low 1 2 3 4 5 6 7 very high

Variable	Obs	Mean	Std. Dev.	Min	Max
Q62	370	4.613514	1.709001	1	7





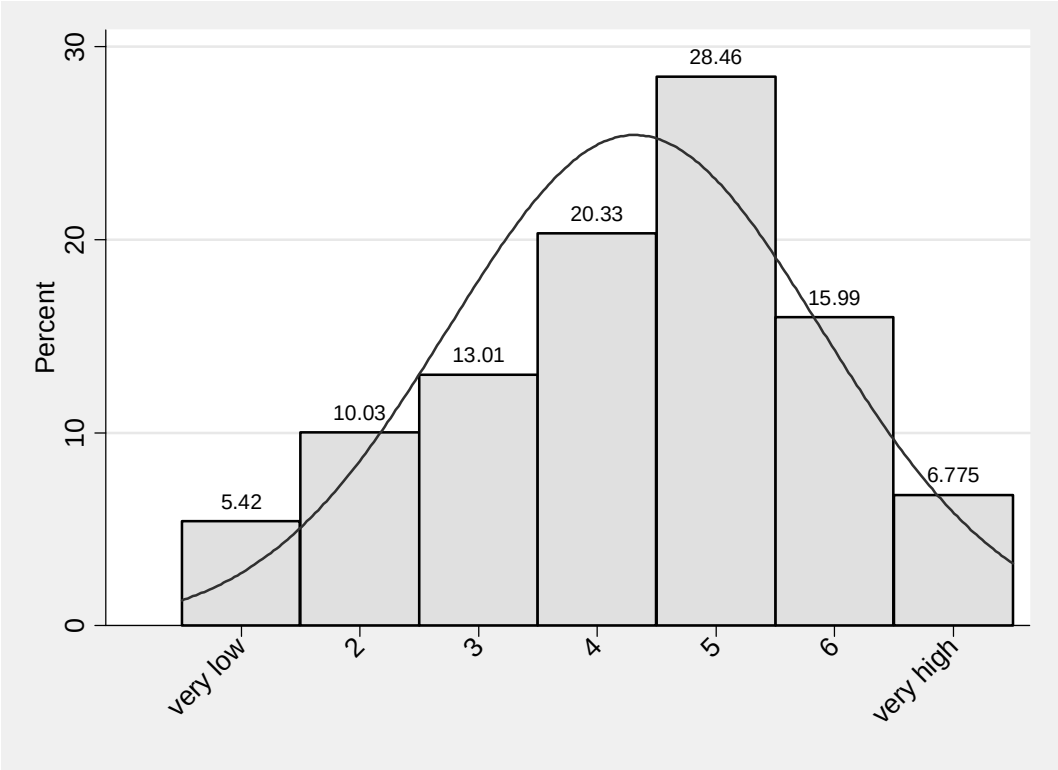
26. If we do not do anything towards adaptation or mitigation, the potential for catastrophe resulting from climate change for *other parts of the world* :

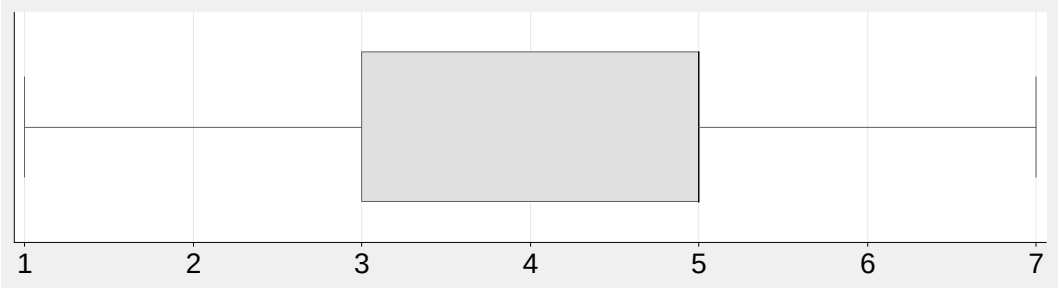
very low 1 2 3 4 5 6 7 very high

(26a. in the next 10 years is

very low 1 2 3 4 5 6 7 very high

Variable	Obs	Mean	Std. Dev.	Min	Max
Q63	369	4.314363	1.568659	1	7

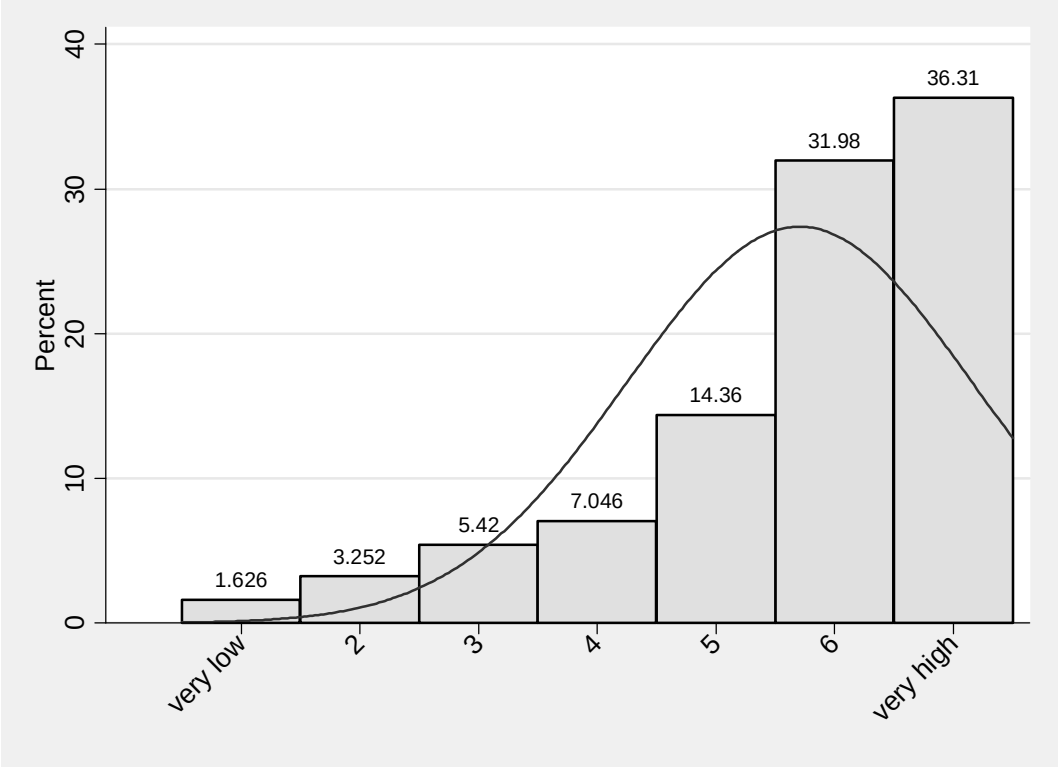


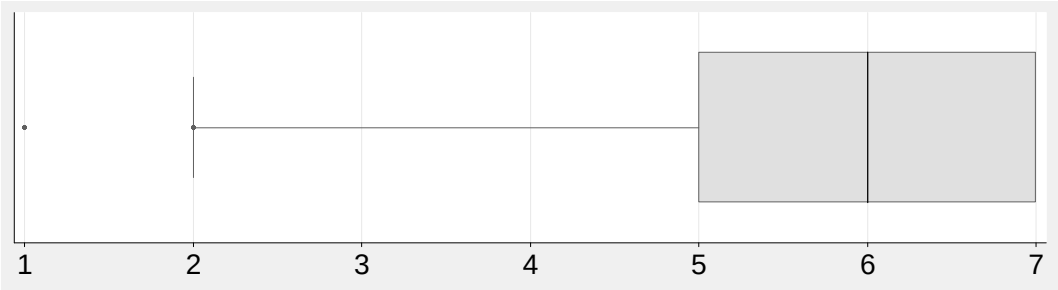


26b. in the next 50 years is

very low 1 2 3 4 5 6 7 very high

Variable	Obs	Mean	Std. Dev.	Min	Max
Q64	**369**	**5.704607**	**1.456621**	**1**	**7**





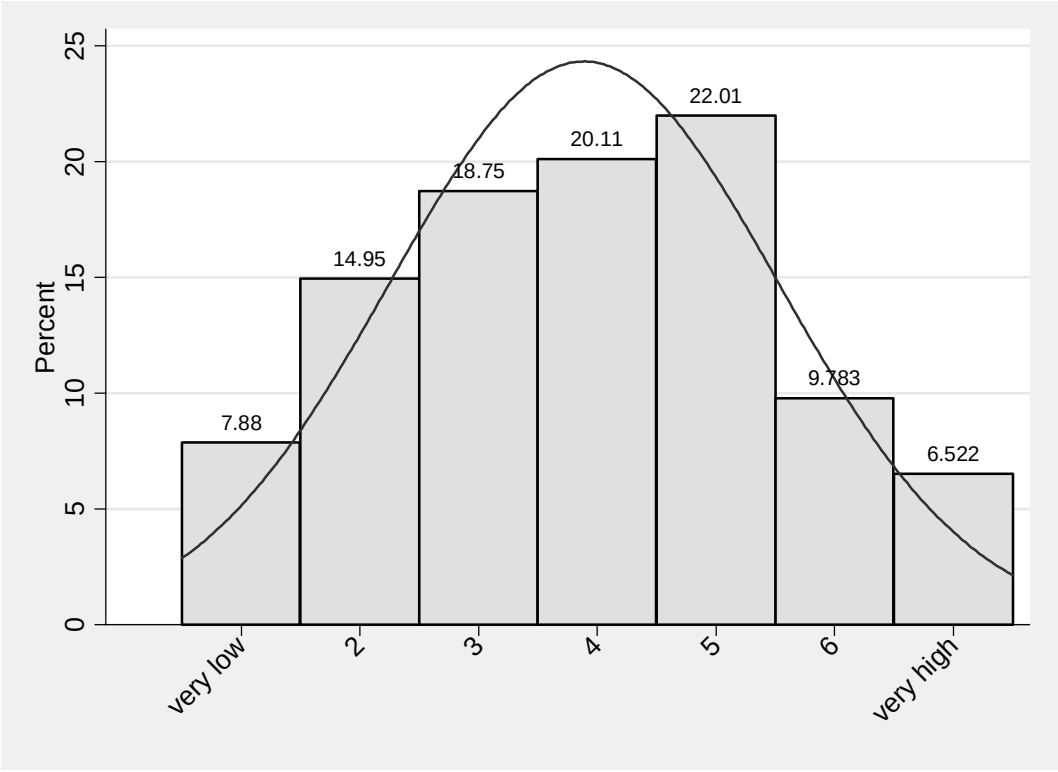
27. The potential that climate change might have some positive effects for

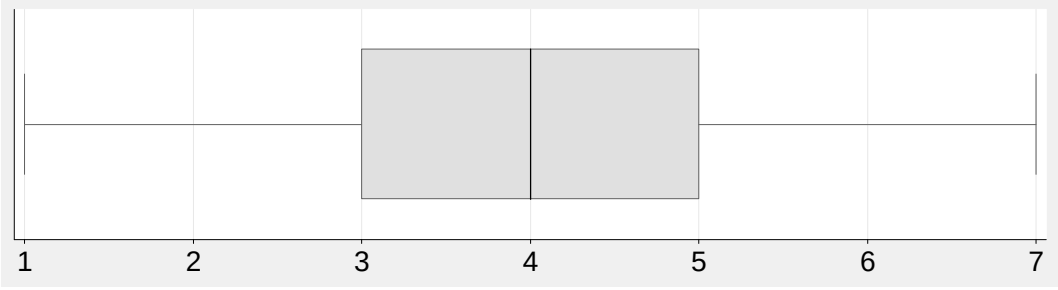
very low 1 2 3 4 5 6 7 very high

27a. the country in which you live is

very low 1 2 3 4 5 6 7 very high

Variable	Obs	Mean	Std. Dev.	Min	Max
Q65	**368**	**3.888587**	**1.639459**	**1**	**7**

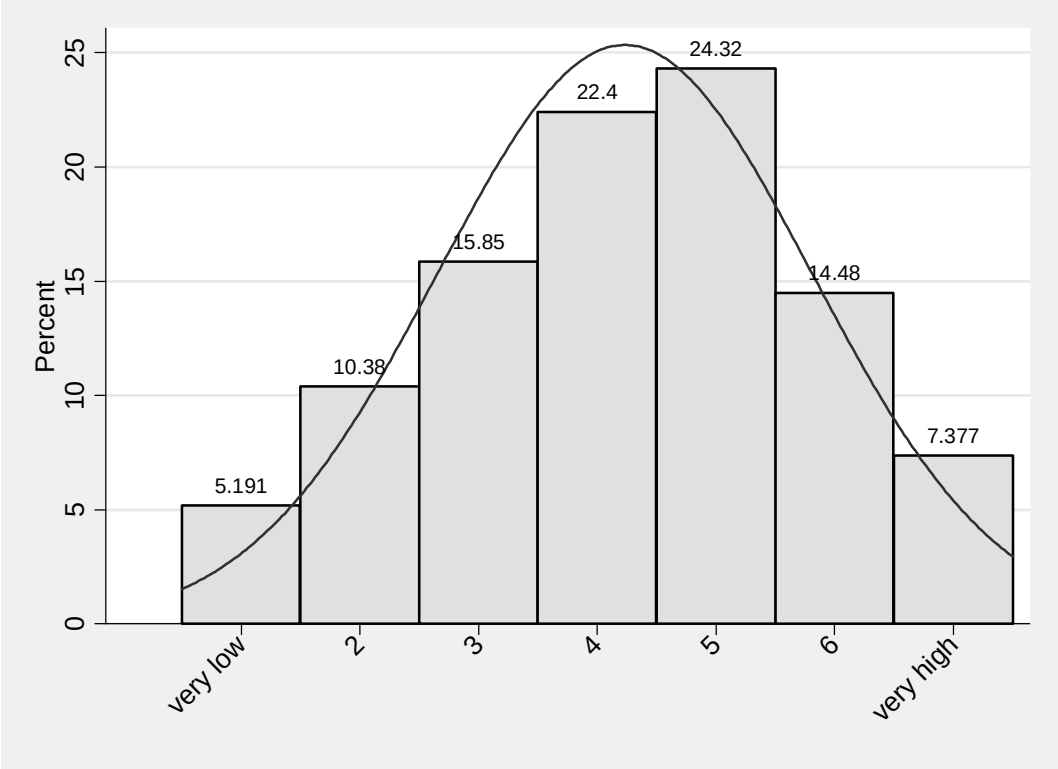


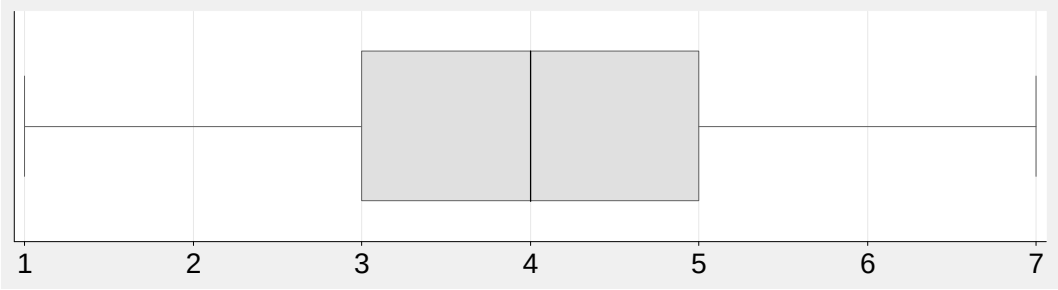


27b. other parts of the world is

very low 1 2 3 4 5 6 7 very high

Variable	Obs	Mean	Std. Dev.	Min	Max
Q66	366	4.23224	1.574853	1	7





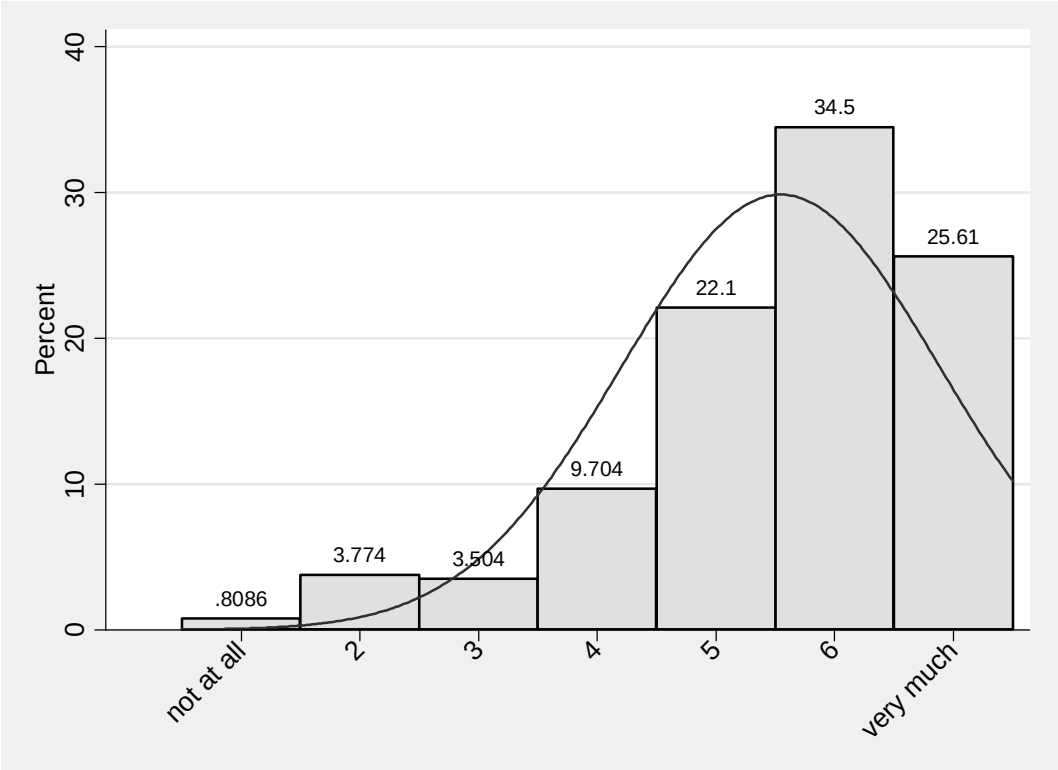
28. How much do you think the potential impact of global climate change is one of the leading problems

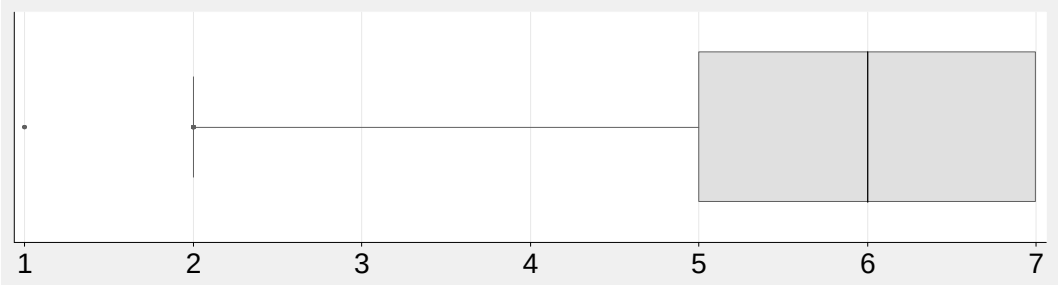
not at all 1 2 3 4 5 6 7 very much

28a. for eco-systems (i.e. species extinction, land degradation, etc.)

not at all 1 2 3 4 5 6 7 very much

Variable	Obs	Mean	Std. Dev.	Min	Max
Q67	**371**	**5.544474**	**1.3356**	**1**	**7**

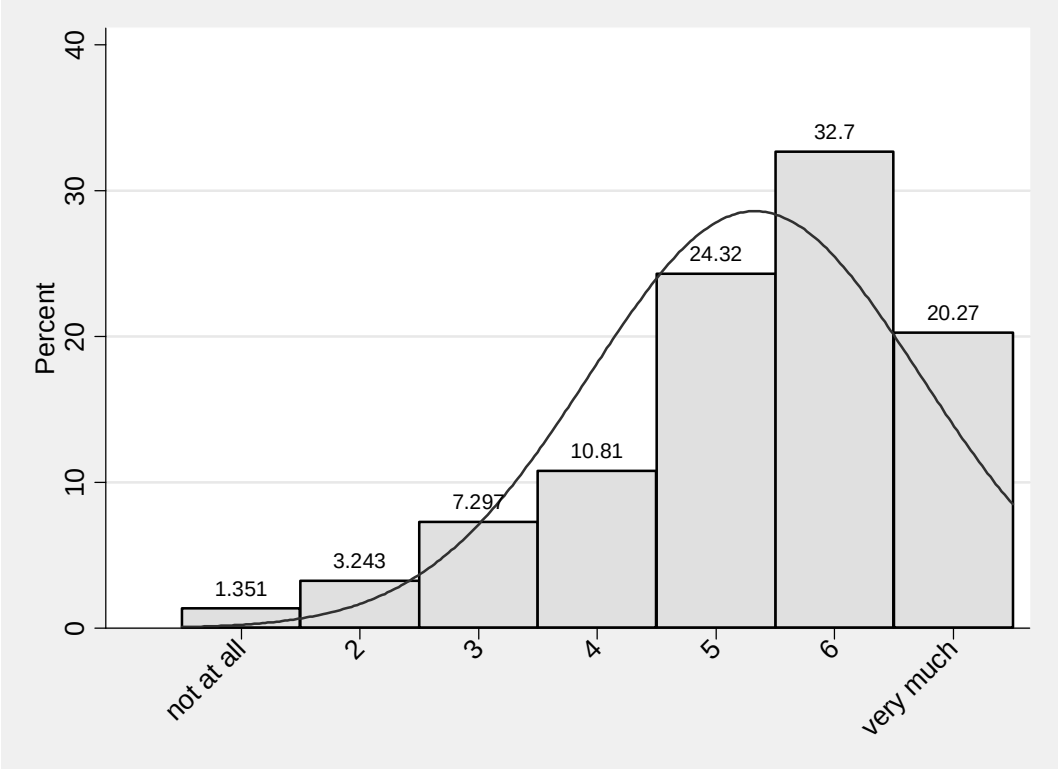


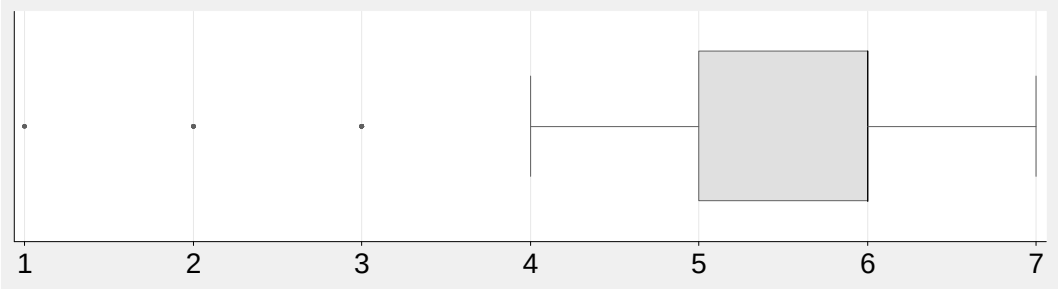


28b. for humanity in terms of social and economic issues

not at all 1 2 3 4 5 6 7 very much

Variable	Obs	Mean	Std. Dev.	Min	Max
Q68	**370**	**5.327027**	**1.394365**	**1**	**7**





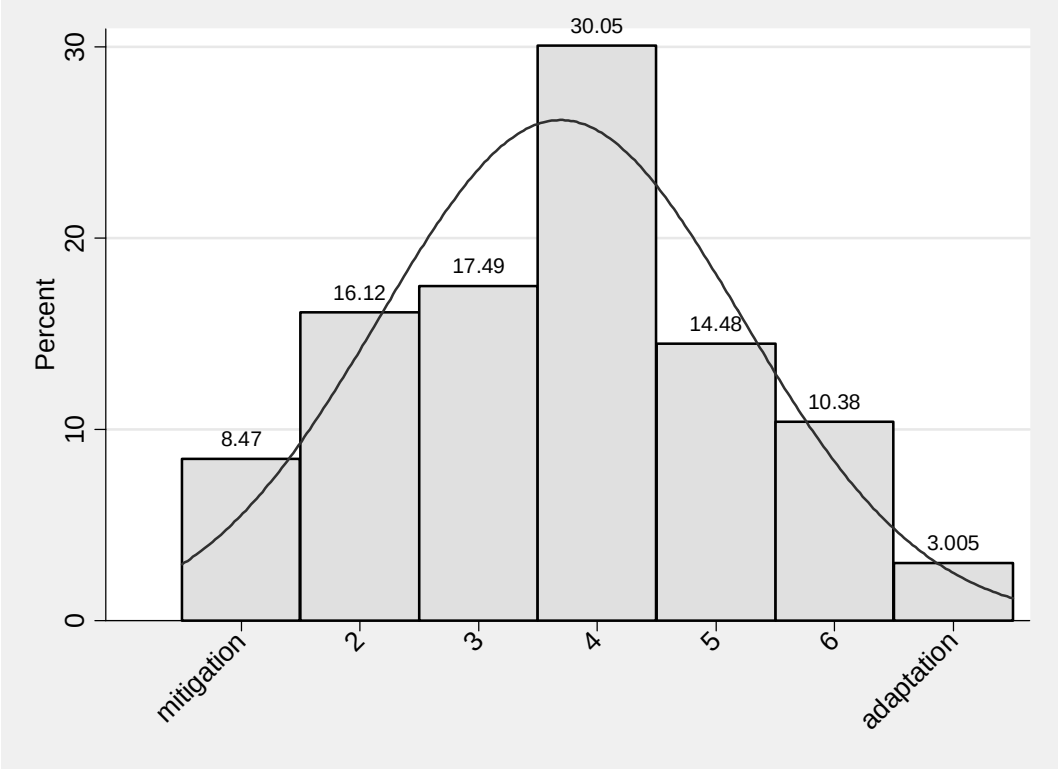
Adaptation and Mitigation

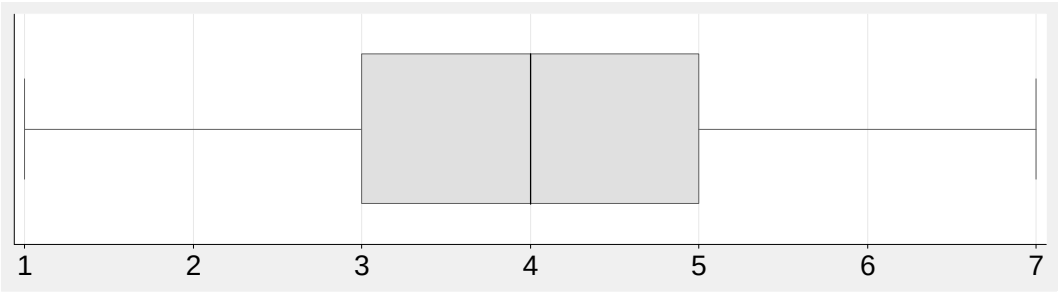
In this section we would like to ask you about your perspective concerning aspects of adaptation and mitigation. The selection of the central value of 4 assigns equal weight to both choices.

29. The best approach to resolving the problems related to climate change is

Mitigation 1 2 3 4 5 6 7 adaptation

Variable	Obs	Mean	Std. Dev.	Min	Max
Q69	**366**	**3.691257**	**1.524334**	**1**	**7**

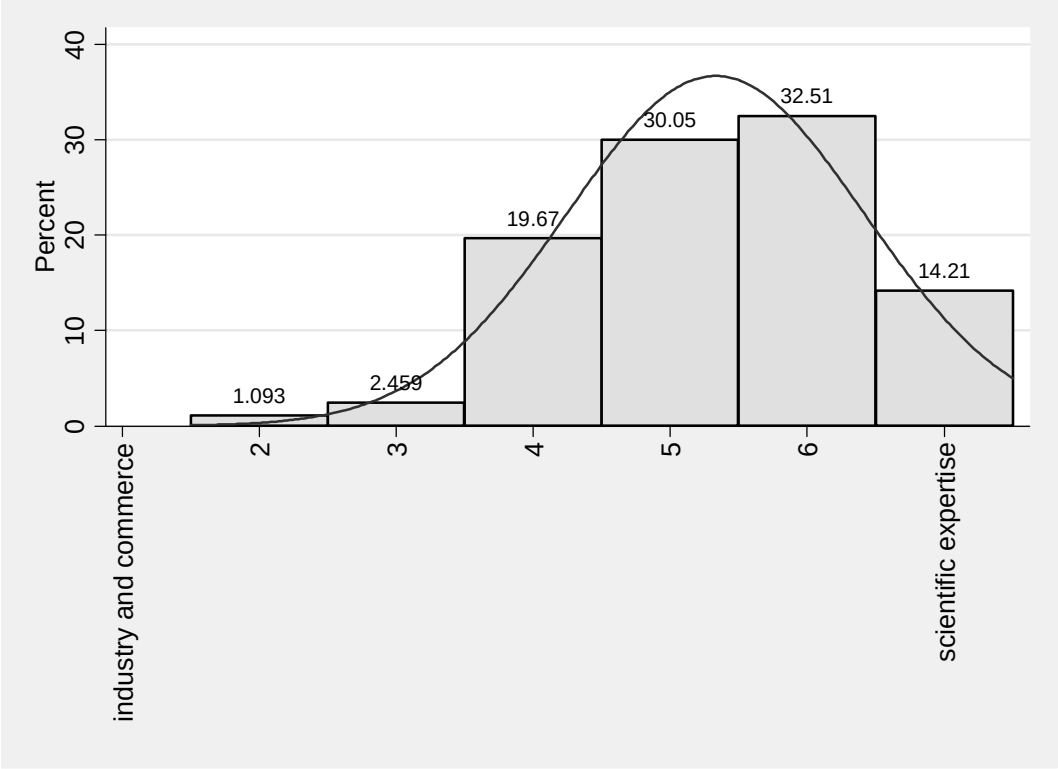


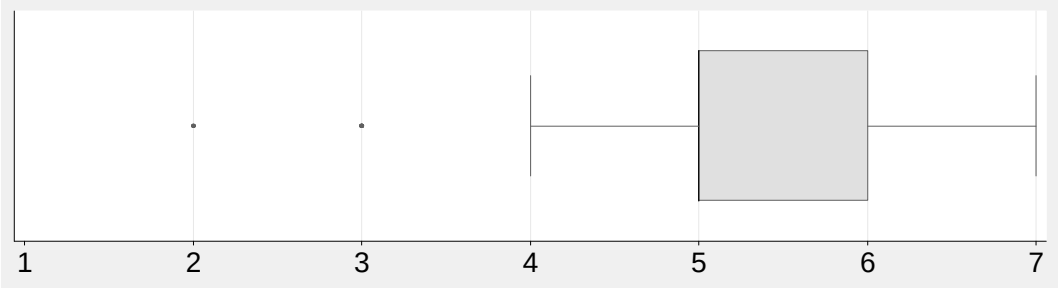


30. In making policy decisions about *adaptation* to climate change, priority should be given to

Opinions of industry 1 2 3 4 5 6 7 scientific expertise
And commerce

Variable	Obs	Mean	Std. Dev.	Min	Max
Q70	366	5.330601	1.086653	2	7

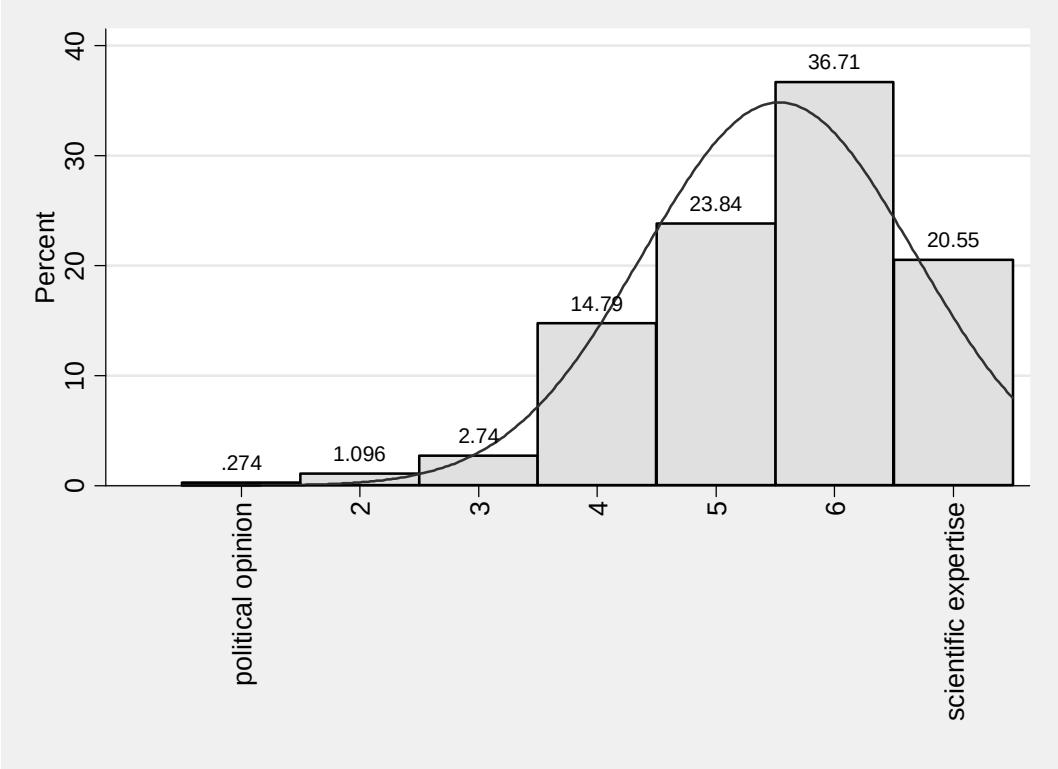


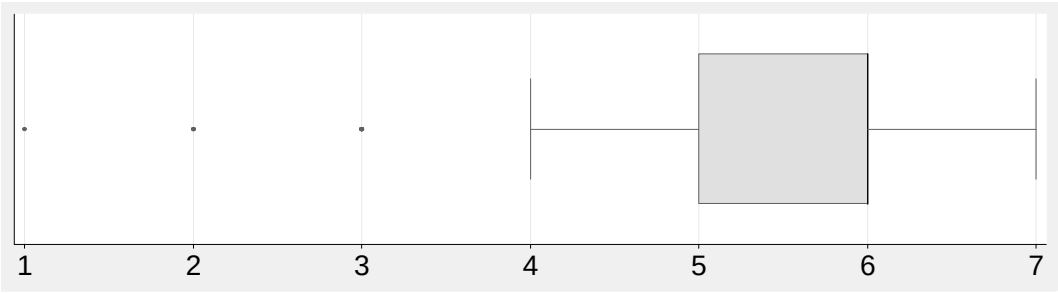


31. In making policy decisions about *adaptation* to climate change, priority should be given to

political opinion 1 2 3 4 5 6 7 scientific expertise

Variable	Obs	Mean	Std. Dev.	Min	Max
Q71	**365**	**5.531507**	**1.14461**	**1**	**7**

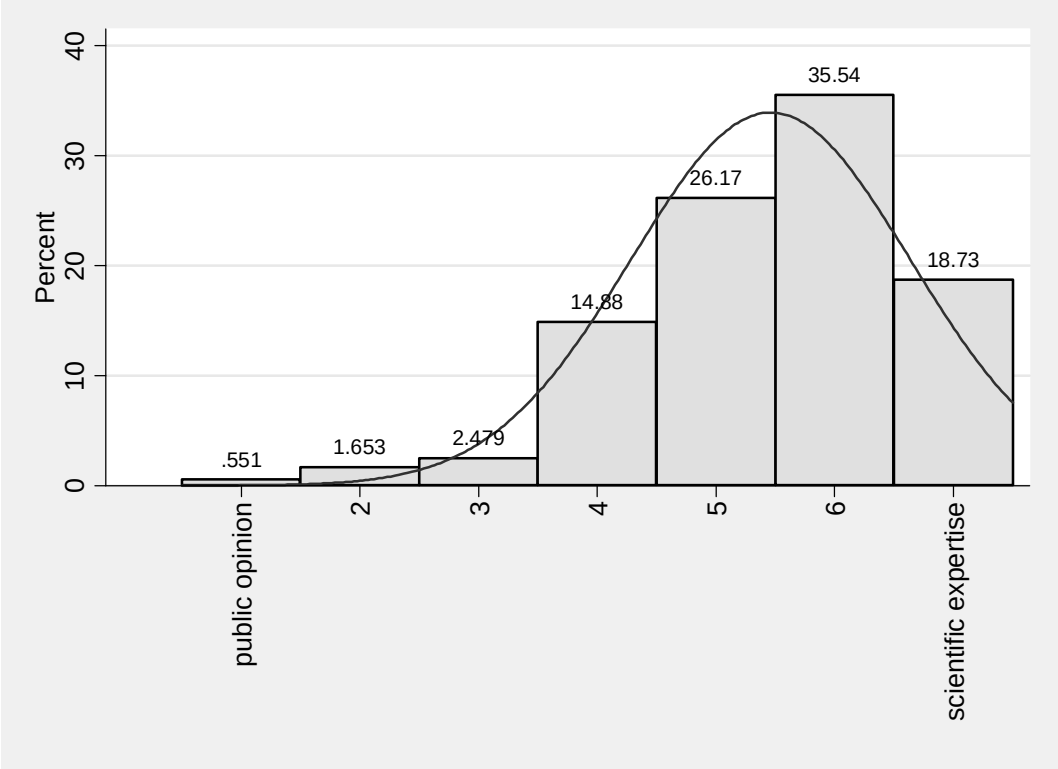


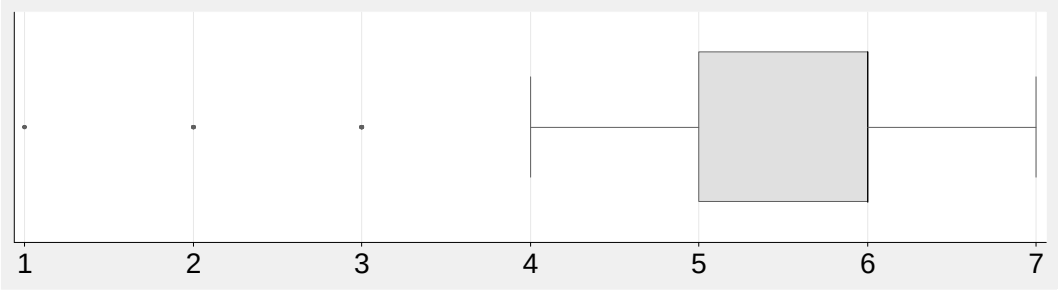


32. In making policy decisions about *adaptation* to climate change, priority should be give to

public opinion 1 2 3 4 5 6 7 scientific expertise

Variable	Obs	Mean	Std. Dev.	Min	Max
Q72	**363**	**5.460055**	**1.175452**	**1**	**7**

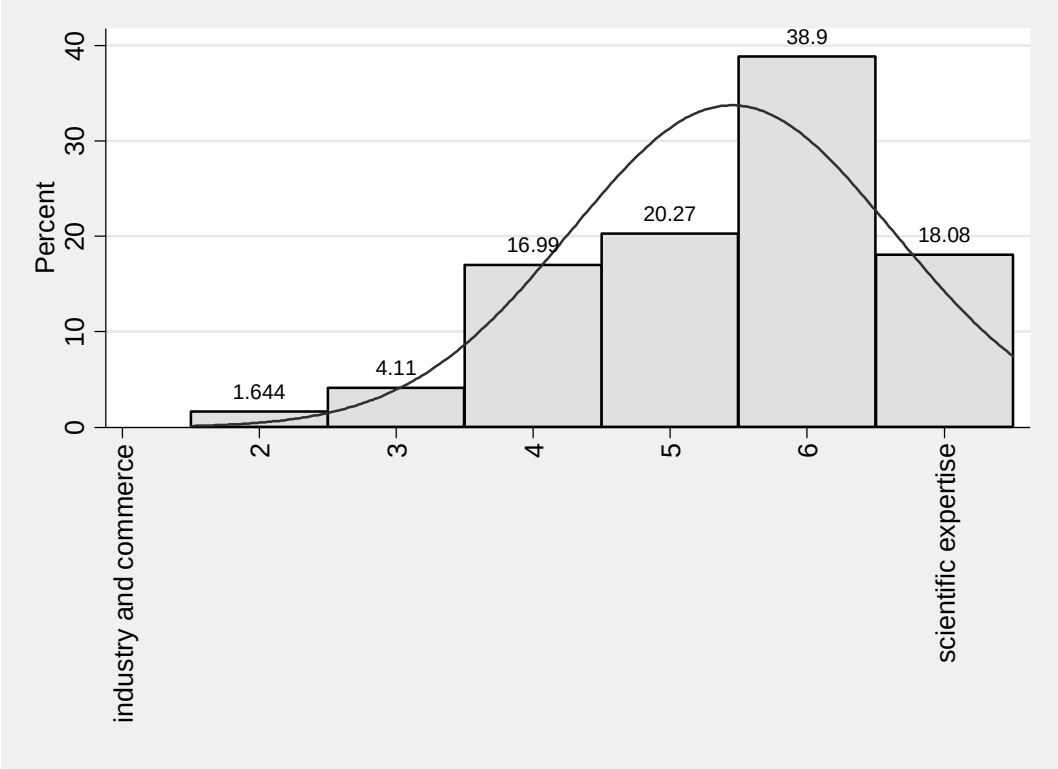


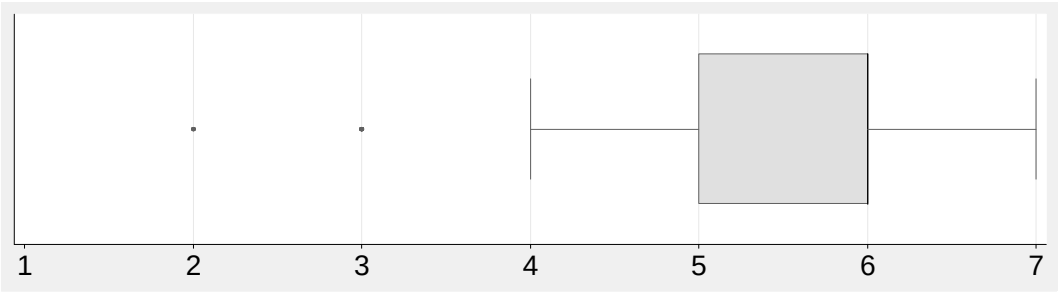


33. In making policy decisions about *mitigation* to climate change, priority should be given to

Opinions of industry 1 2 3 4 5 6 7 scientific expertise
And commerce

Variable	Obs	Mean	Std. Dev.	Min	Max
Q73	365	5.449315	1.18172	2	7

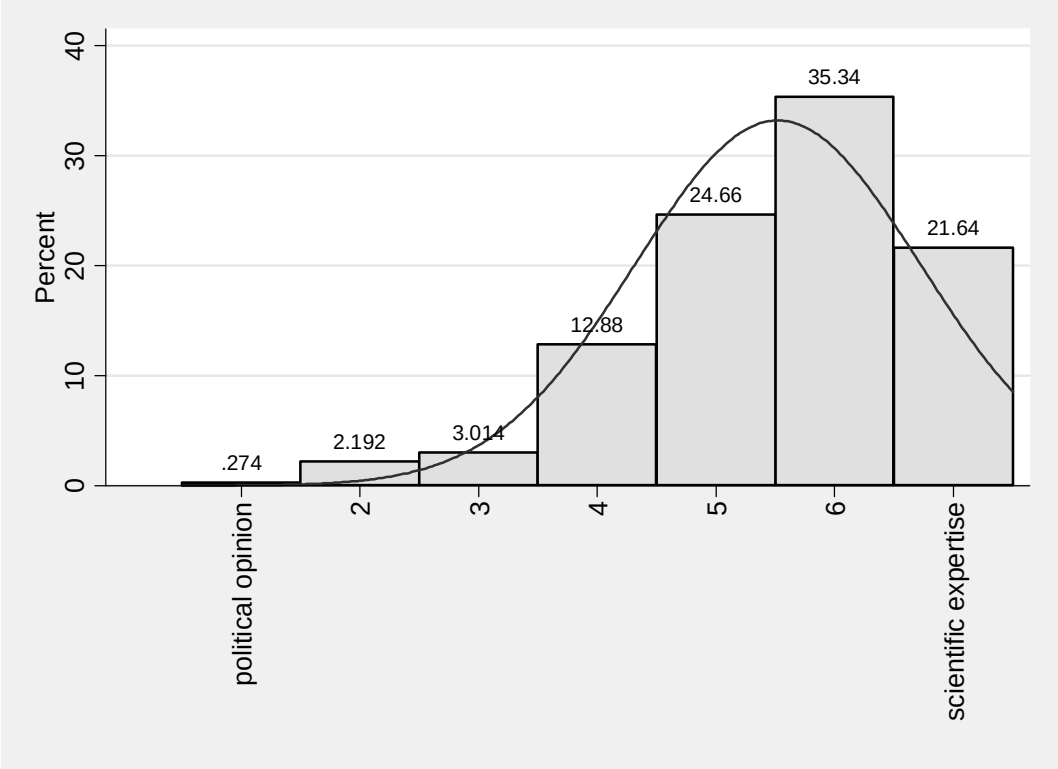


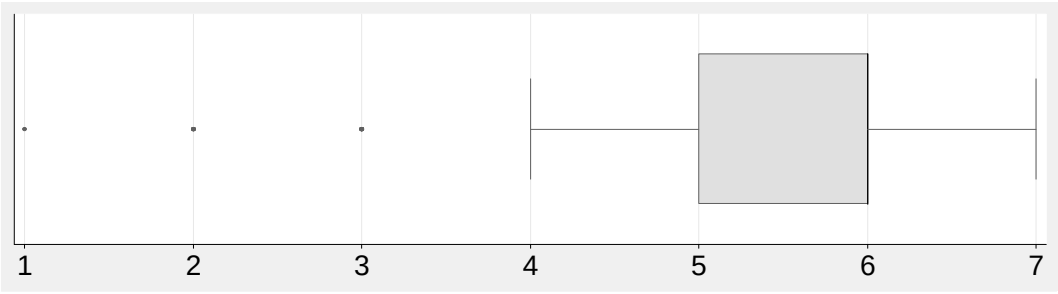


34. In making policy decisions about *mitigation* to climate change, priority should be given

political opinion 1 2 3 4 5 6 7 scientific expertise

Variable	Obs	Mean	Std. Dev.	Min	Max
Q74	**365**	**5.520548**	**1.201071**	**1**	**7**

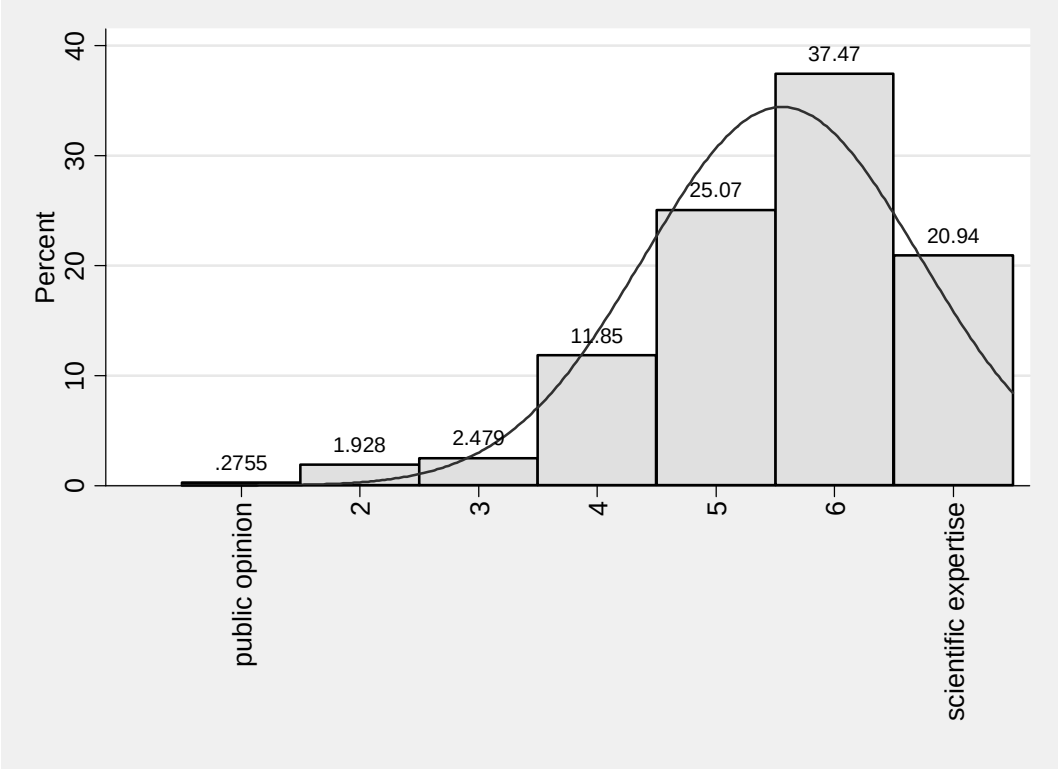


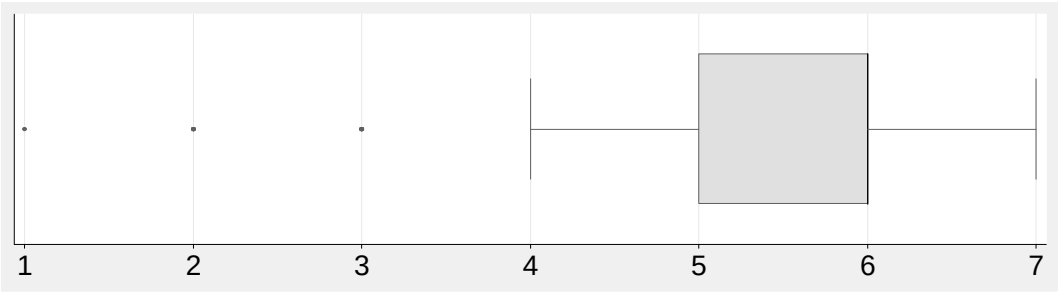


35. In making policy decisions about *mitigation* to climate change, priority should be given to

public opinion 1 2 3 4 5 6 7 scientific expertise

Variable	Obs	Mean	Std. Dev.	Min	Max
Q75	**363**	**5.556474**	**1.158195**	**1**	**7**

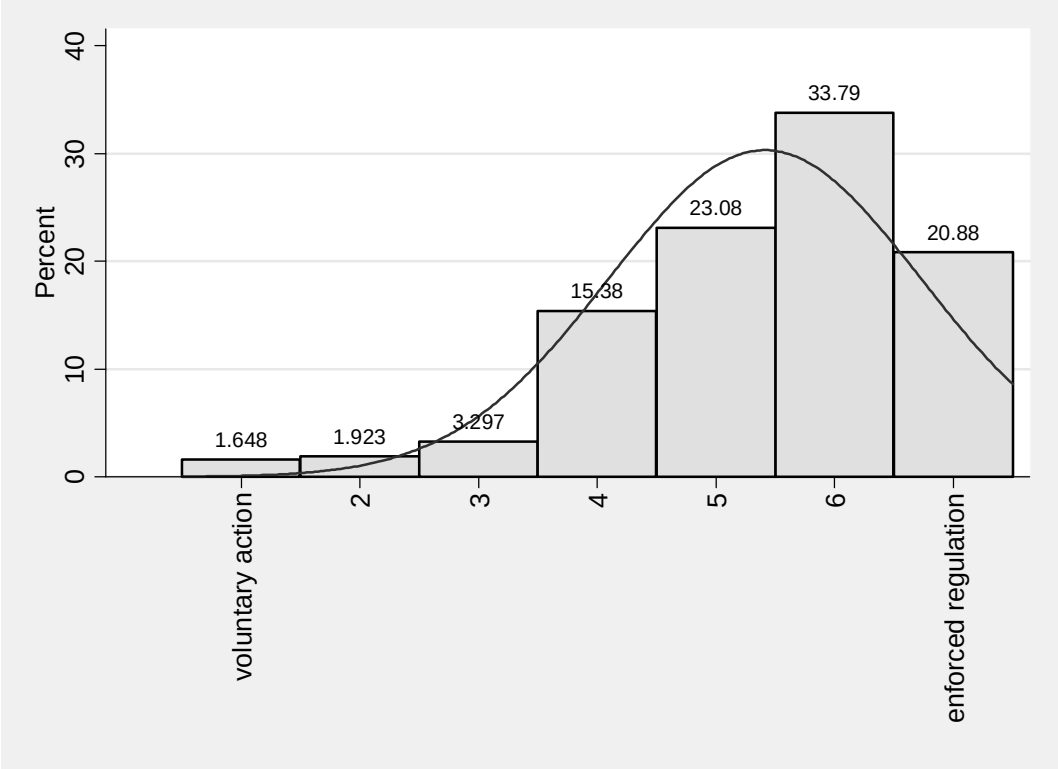


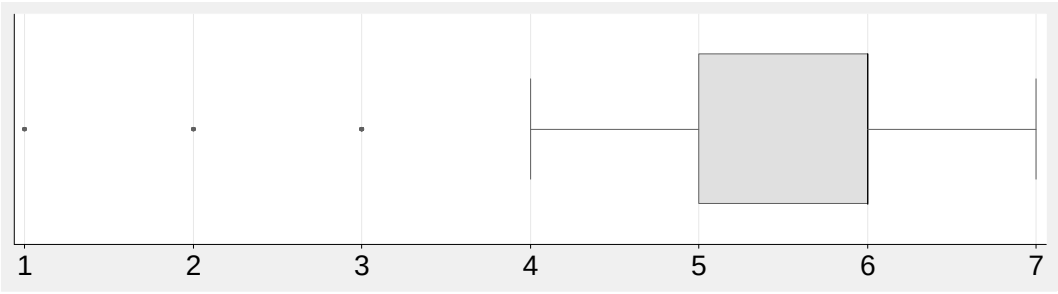


36. The best approach to the mitigation of anthropogenic climate change would be based on

voluntary action 1 2 3 4 5 6 7 enforced regulation

Variable	Obs	Mean	Std. Dev.	Min	Max
Q76	**364**	**5.412088**	**1.315501**	**1**	**7**

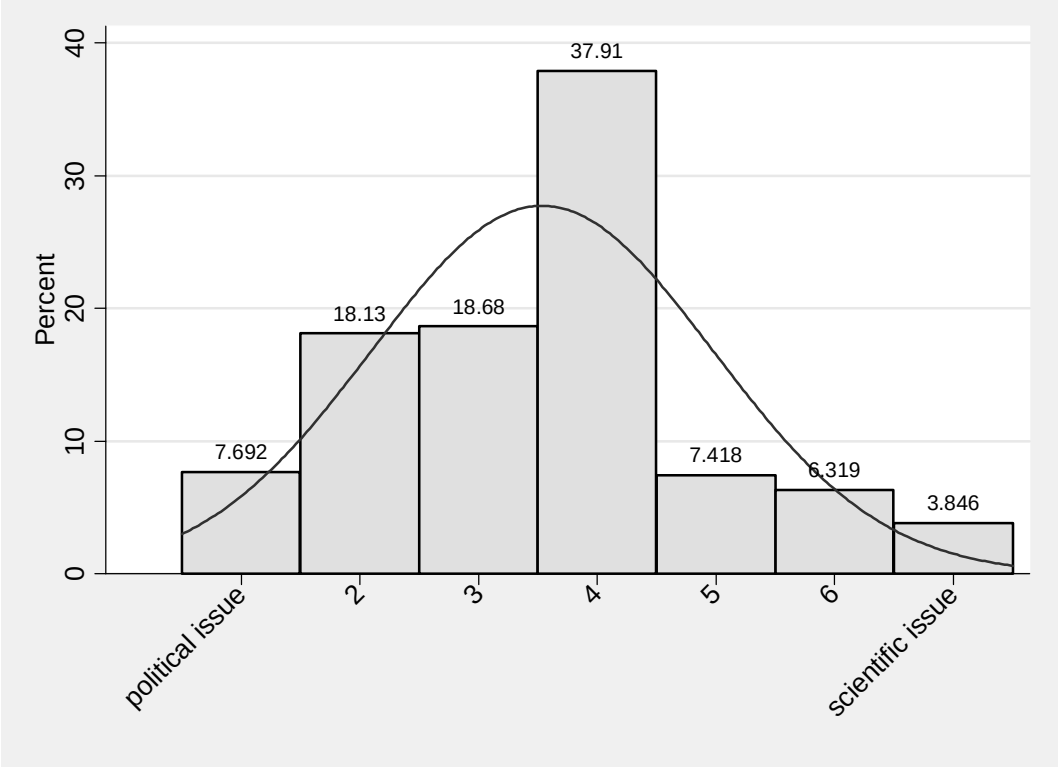


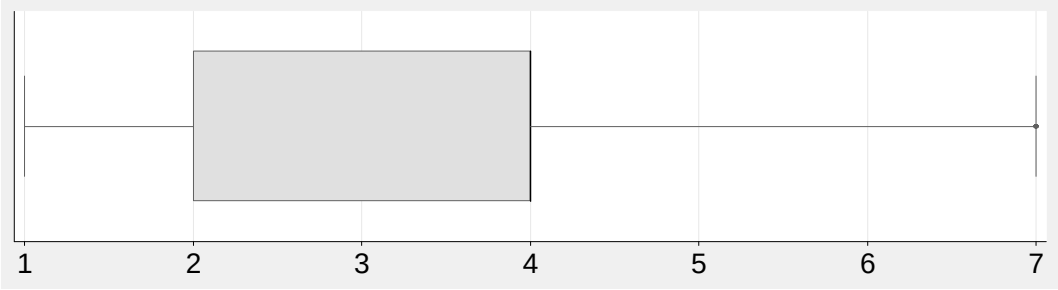


37. Given our current state on knowledge, climate change is now mostly a

political issues 1 2 3 4 5 6 7scientific issue

Variable	Obs	Mean	Std. Dev.	Min	Max
Q77	364	3.535714	1.437912	1	7





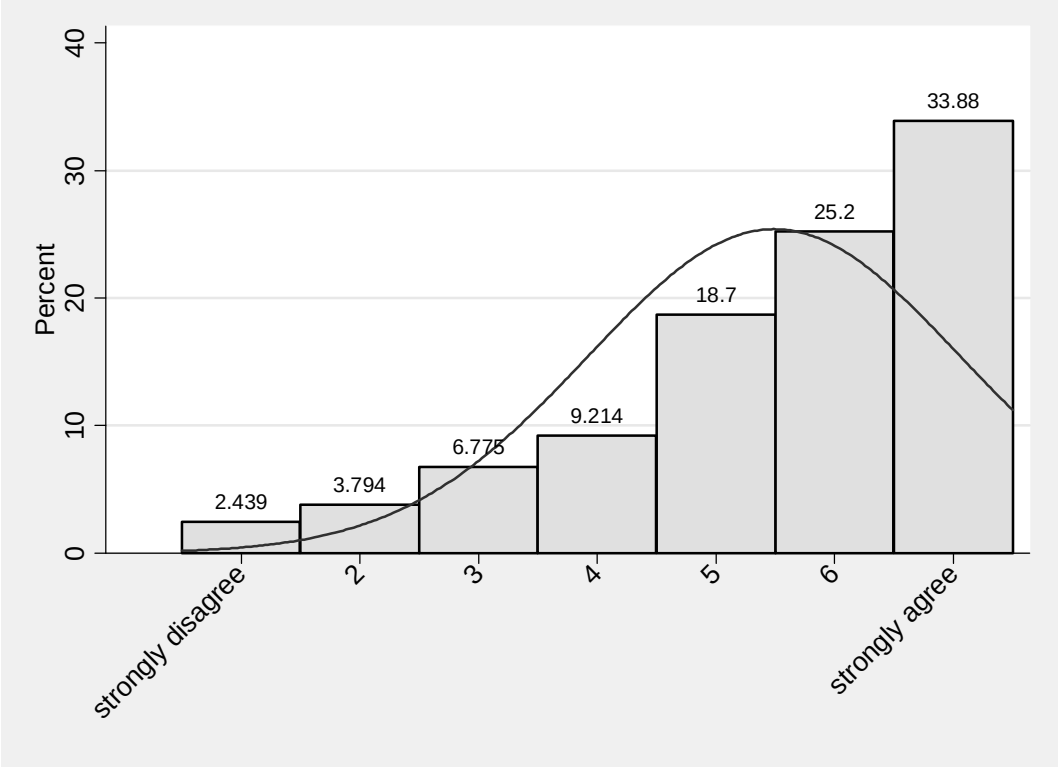
The IPCC

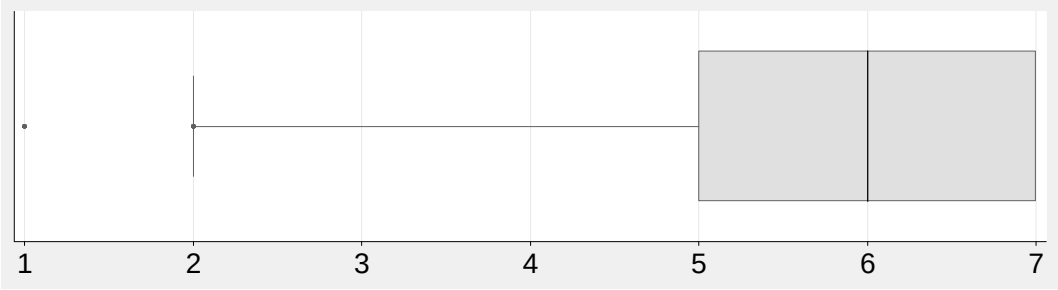
In this section we would like to ask your opinion concerning aspects of the IPCC.

38. The IPCC reports are of great use to the advancement of climate science.

strongly disagree 1 2 3 4 5 6 7 strongly agree

Variable	Obs	Mean	Std. Dev.	Min	Max
Q78	369	5.490515	1.570981	1	7





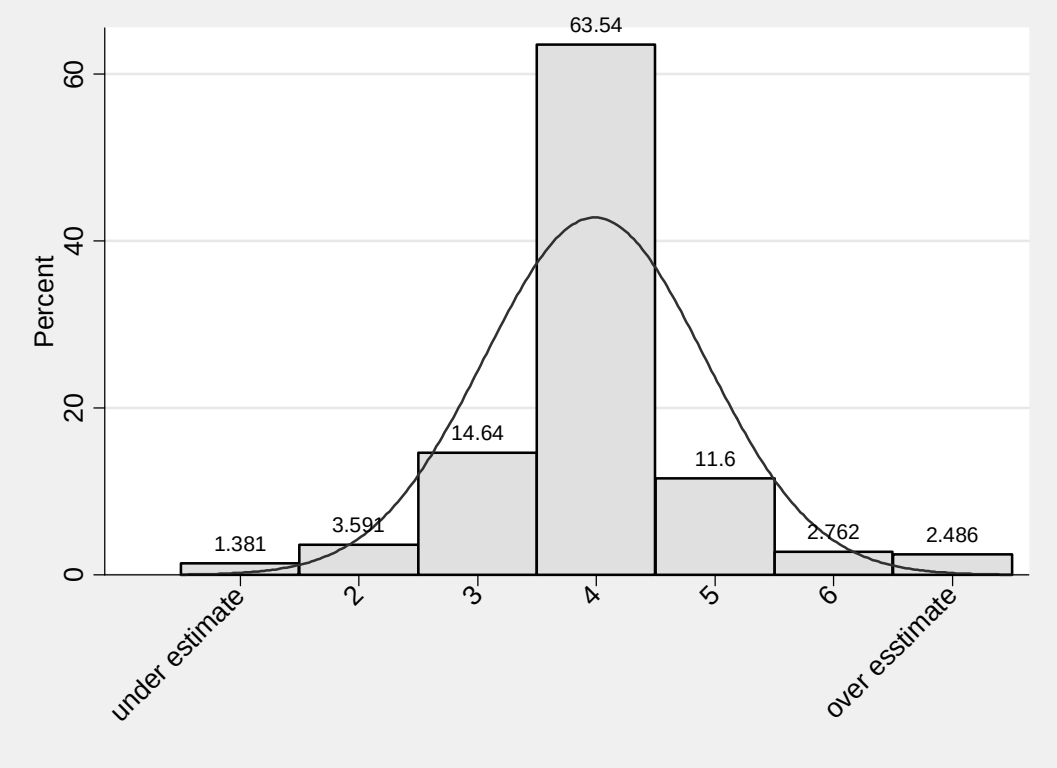
39. The IPCC reports tend to under estimate, accurately reflect (a value of 4) or over estimate the magnitude of the impacts resulting from changes in:

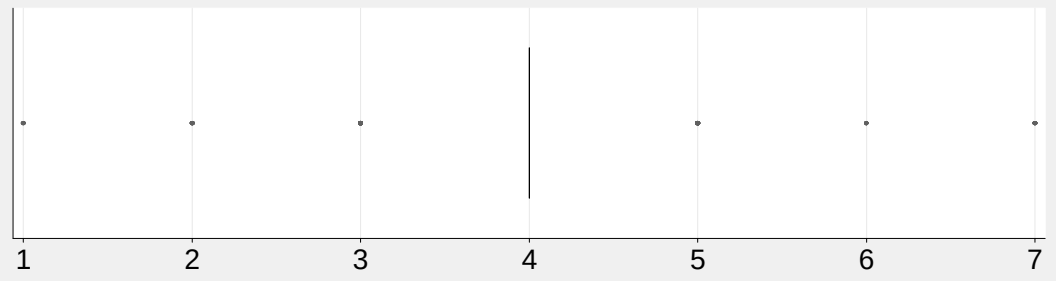
under estimate 1 2 3 4 5 6 7 over estimate

39a. temperature

under estimate 1 2 3 4 5 6 7 over estimate

Variable	Obs	Mean	Std. Dev.	Min	Max
Q79	362	3.986188	.931045	1	7

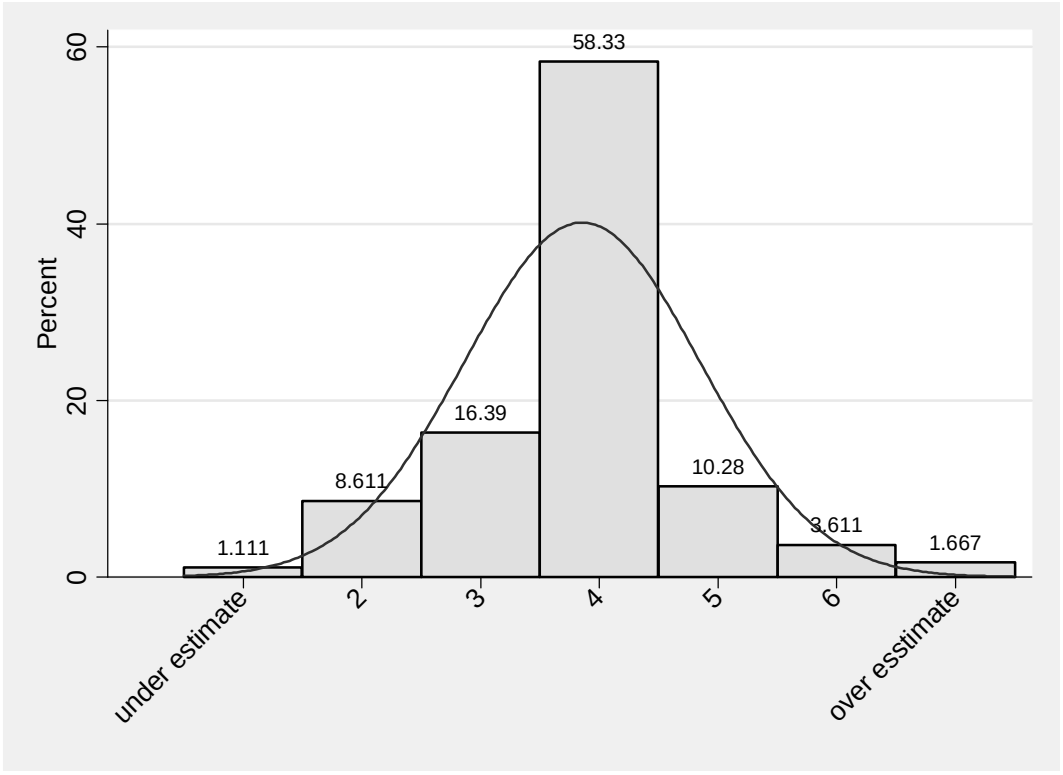


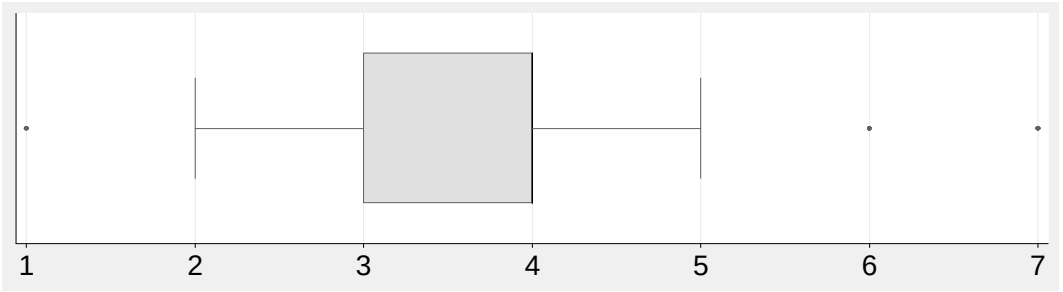


39b. precipitation

under estimate 1 2 3 4 5 6 7 over estimate

Variable	Obs	Mean	Std. Dev.	Min	Max
Q80	**360**	**3.855556**	**.9936973**	**1**	**7**

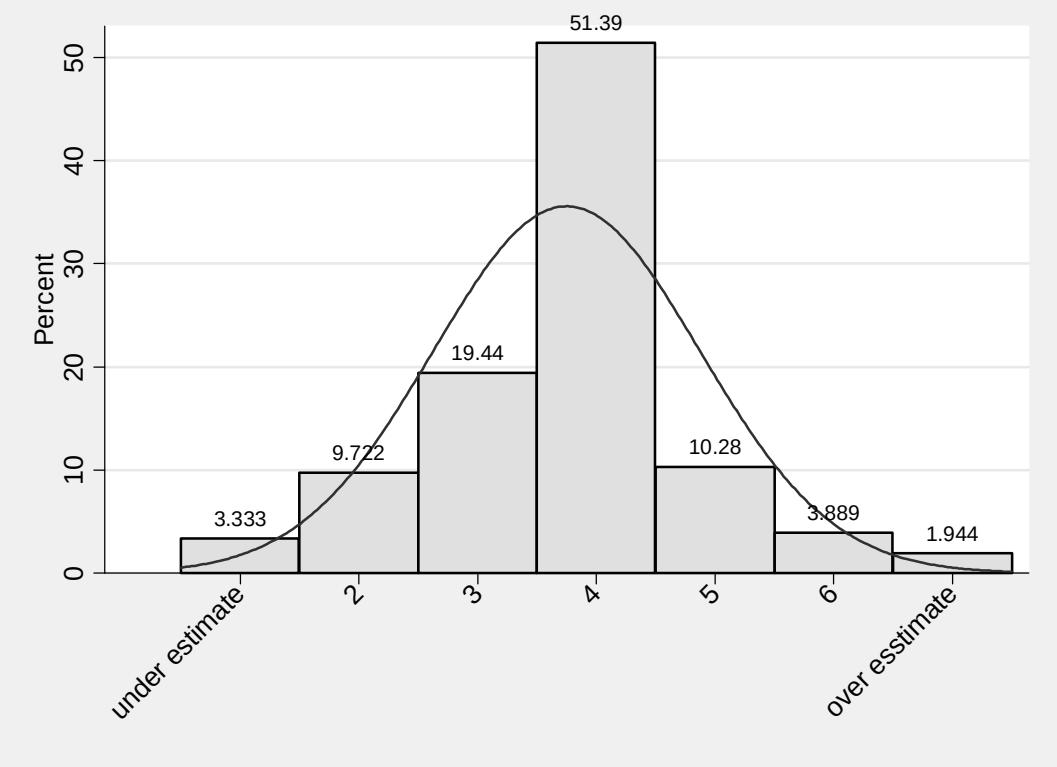


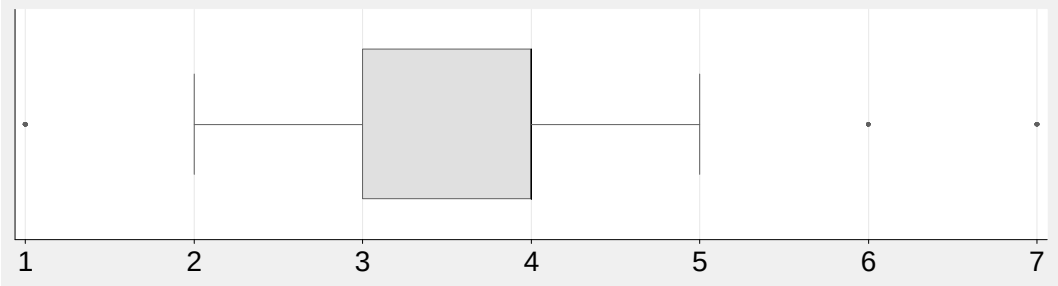


39c. sea level rise

under estimate 1 2 3 4 5 6 7 over estimate

Variable	Obs	Mean	Std. Dev.	Min	Max
Q81	**360**	**3.75**	**1.121454**	**1**	**7**

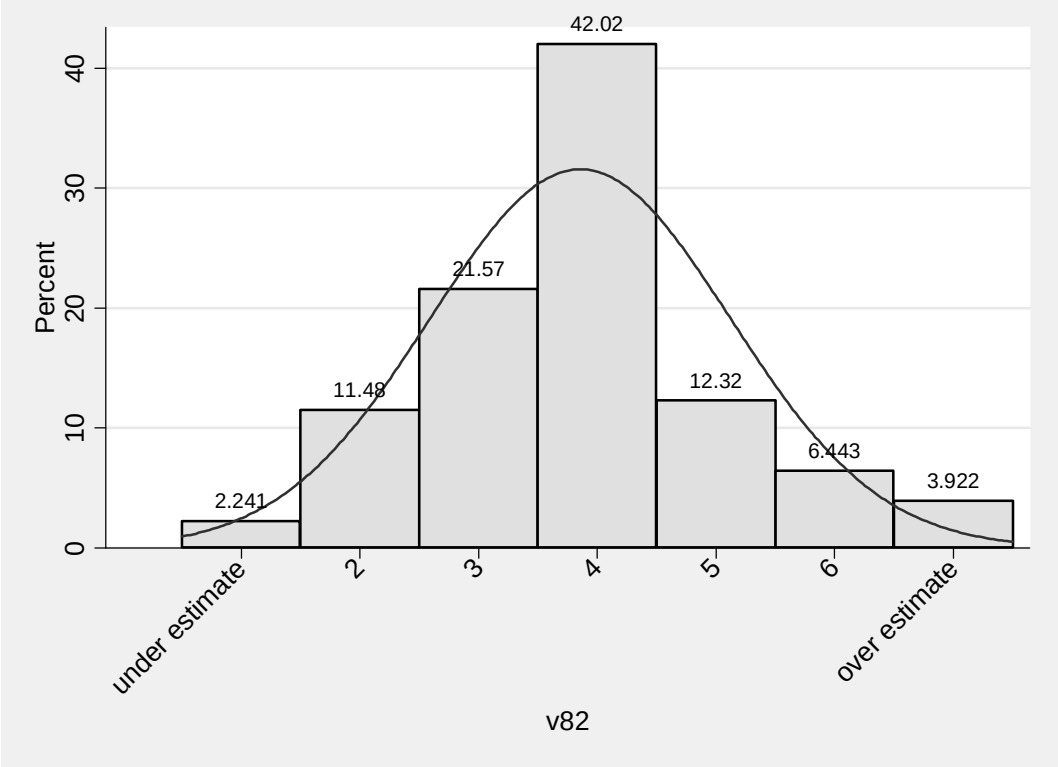


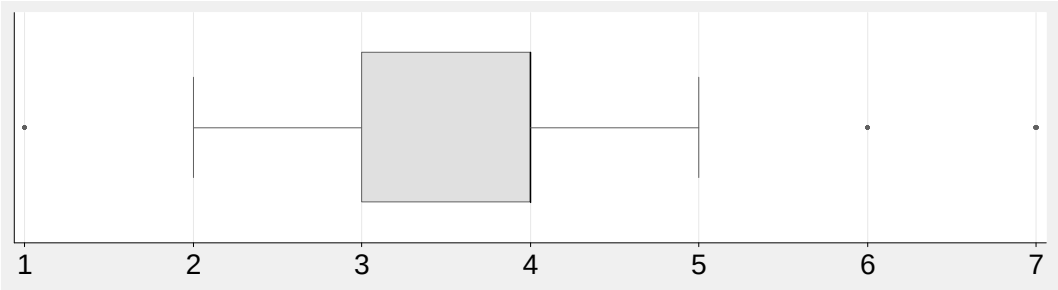


39d. extreme events

under estimate 1 2 3 4 5 6 7 over estimate

Variable	Obs	Mean	Std. Dev.	Min	Max
Q82	357	3.857143	1.262816	1	7





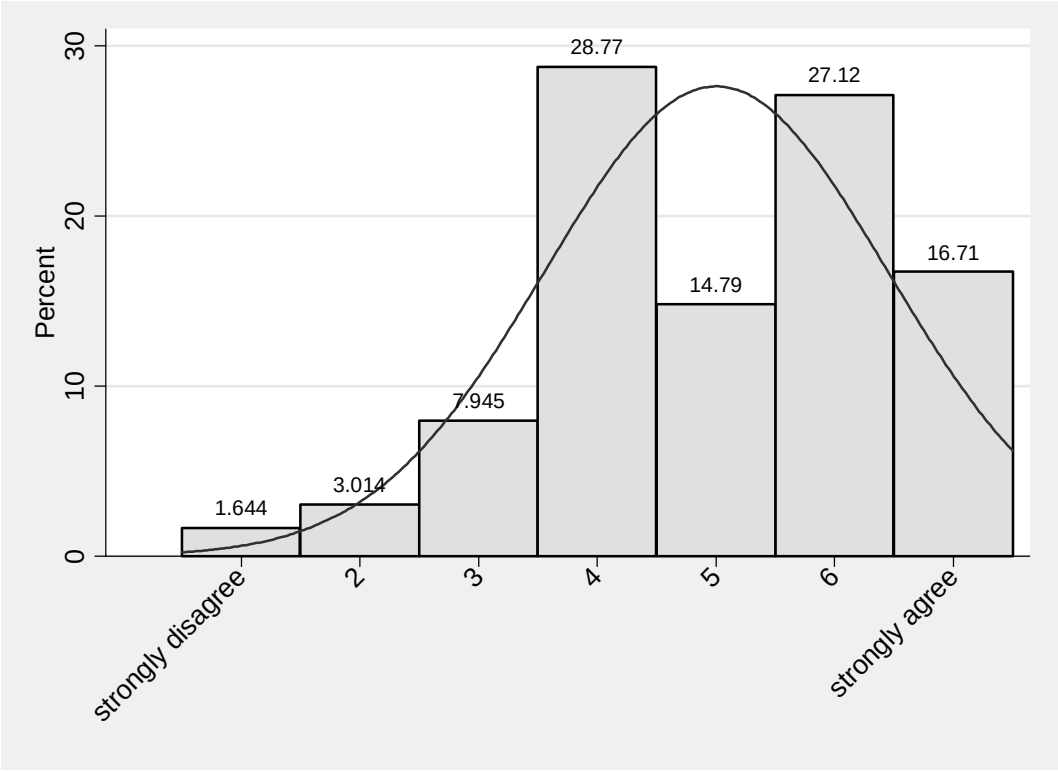
40. The IPCC reports accurately reflect the consensus of scientific thought pertaining to

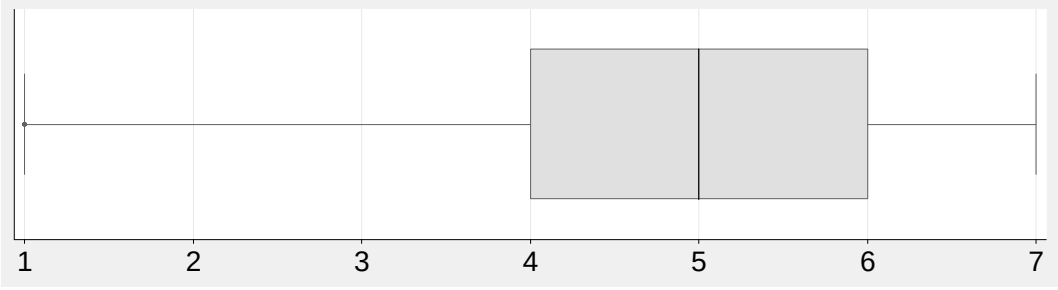
strongly disagree 1 2 3 4 5 6 7 strongly agree

40a. temperature

strongly disagree 1 2 3 4 5 6 7 strongly agree

Variable	Obs	Mean	Std. Dev.	Min	Max
Q83	365	5.00274	1.444007	1	7

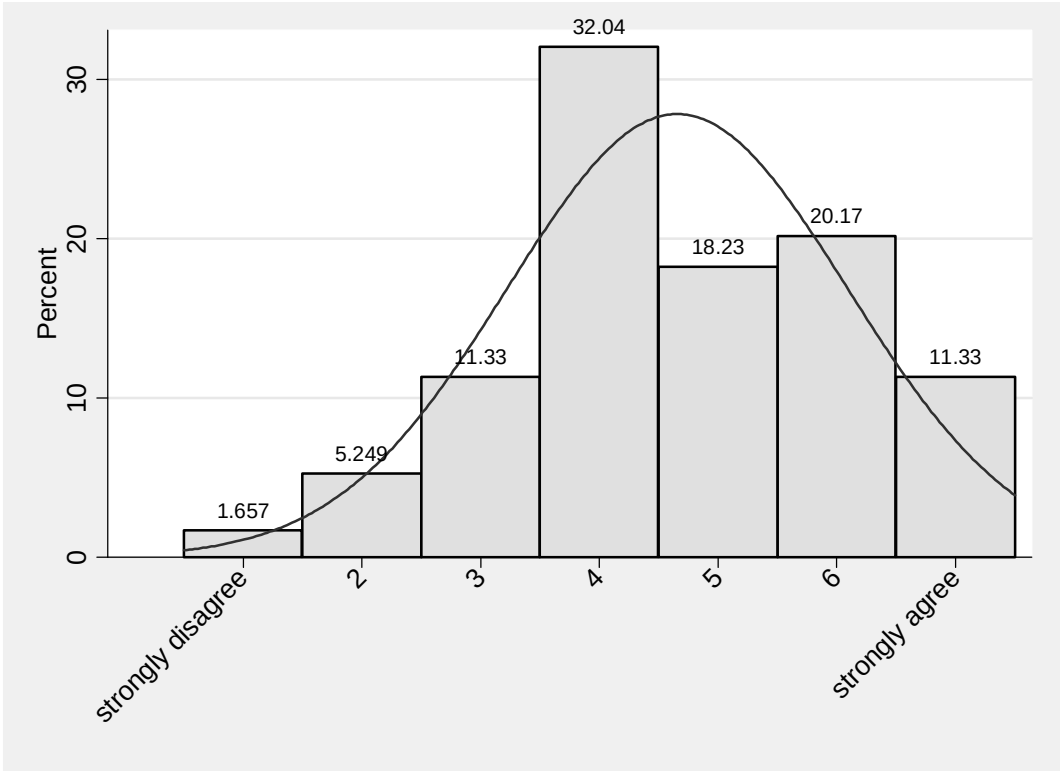


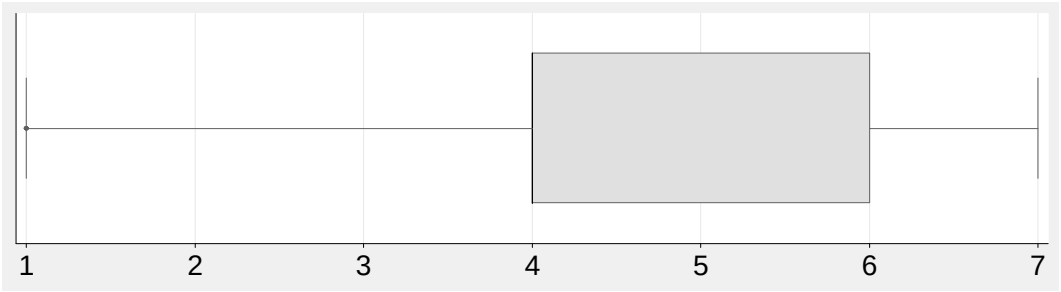


40b. precipitation

strongly disagree 1 2 3 4 5 6 7 strongly agree

Variable	Obs	Mean	Std. Dev.	Min	Max
Q84	**362**	**4.657459**	**1.433208**	**1**	**7**

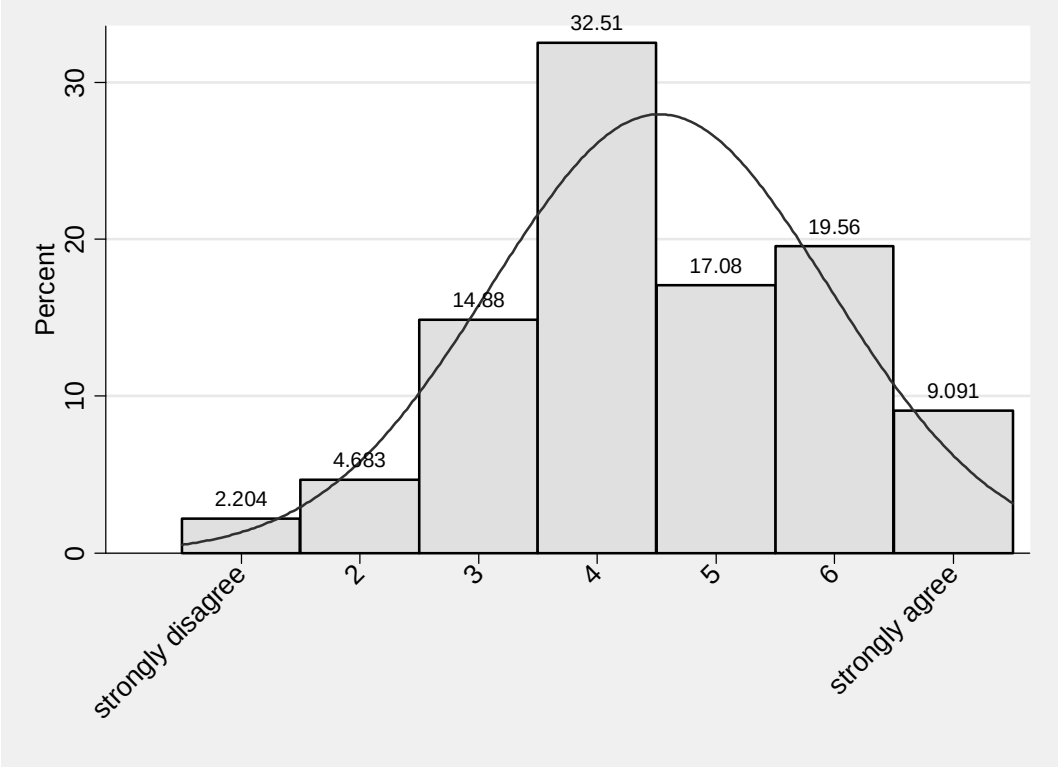


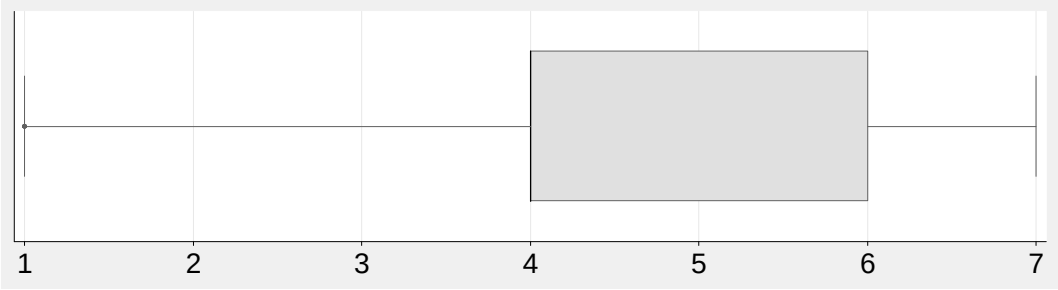


40c. sea level rise

strongly disagree 1 2 3 4 5 6 7 strongly agree

Variable	Obs	Mean	Std. Dev.	Min	Max
Q85	363	4.526171	1.426371	1	7

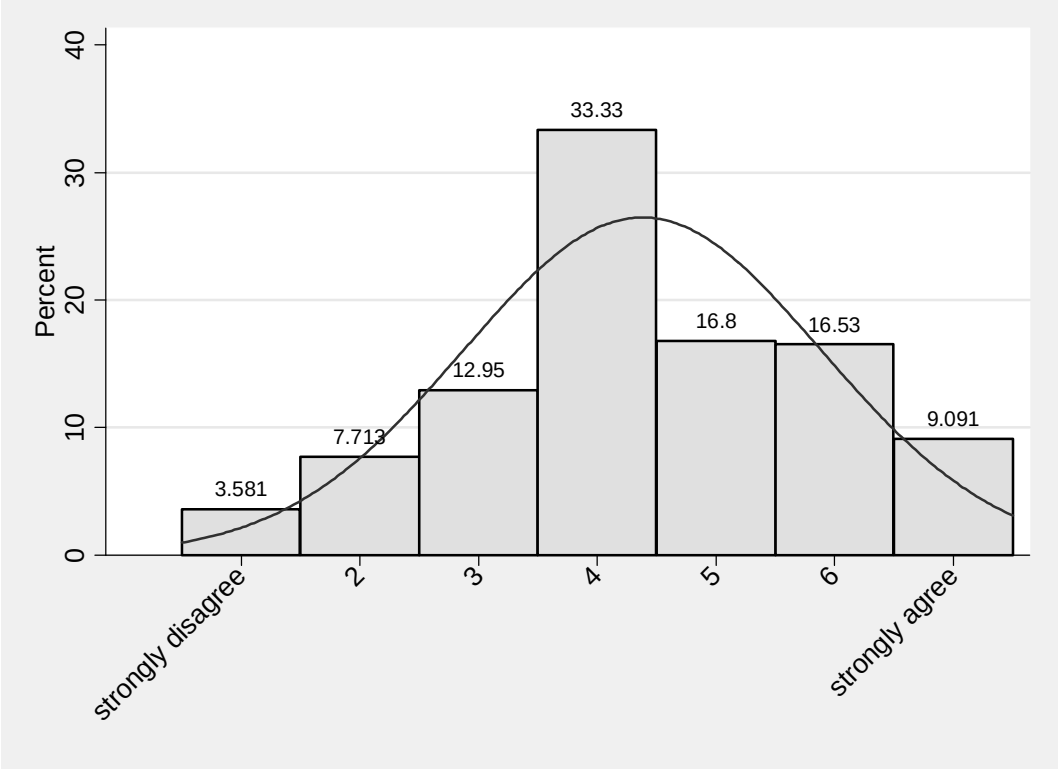


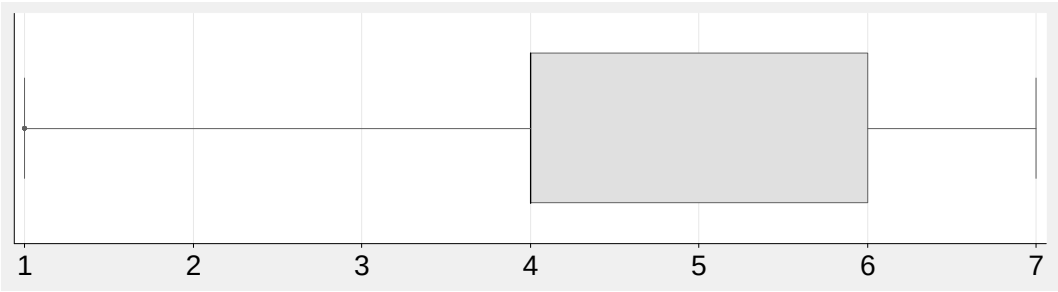


40d. extreme events

strongly disagree 1 2 3 4 5 6 7 strongly agree

Variable	Obs	Mean	Std. Dev.	Min	Max
Q86	**363**	**4.380165**	**1.506466**	**1**	**7**





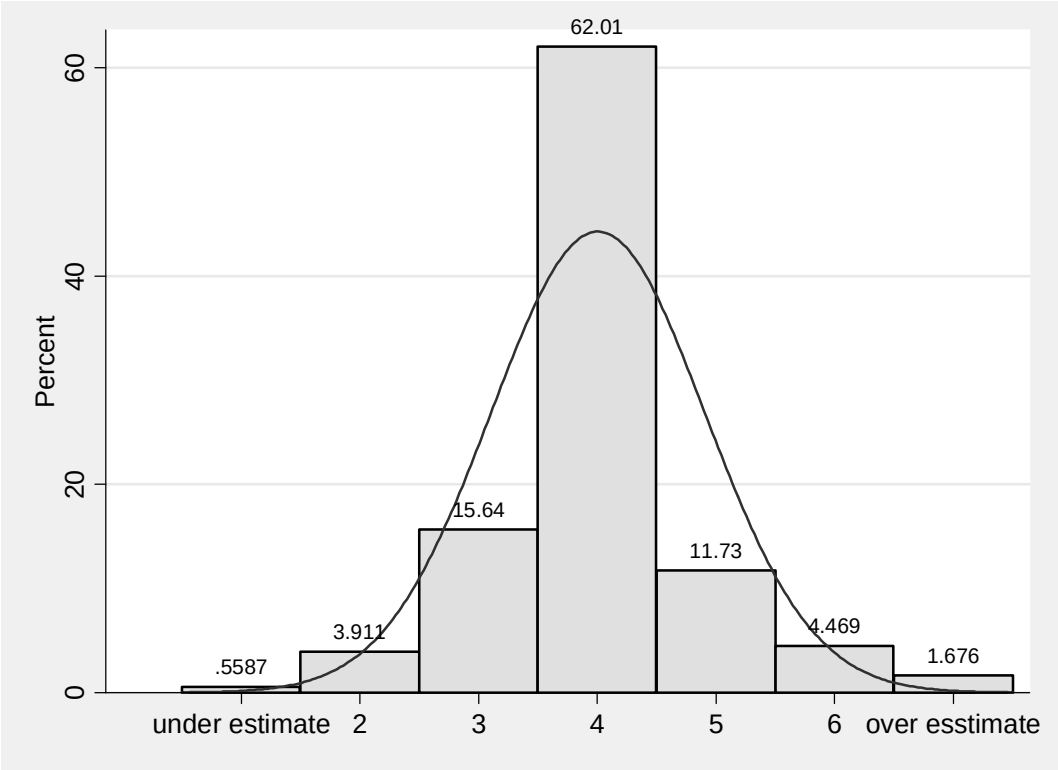
41. The IPCC reports tend to under estimate, accurately reflect (a value of 4) or over estimate the magnitude of future changes to:

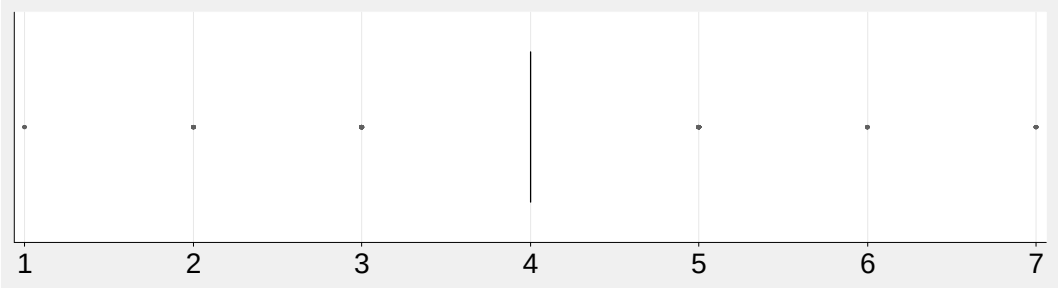
under estimate 1 2 3 4 5 6 7 over estimate

41a. temperature

under estimate 1 2 3 4 5 6 7 over estimate

Variable	Obs	Mean	Std. Dev.	Min	Max
Q87	**358**	**4.005587**	**.9012733**	**1**	**7**

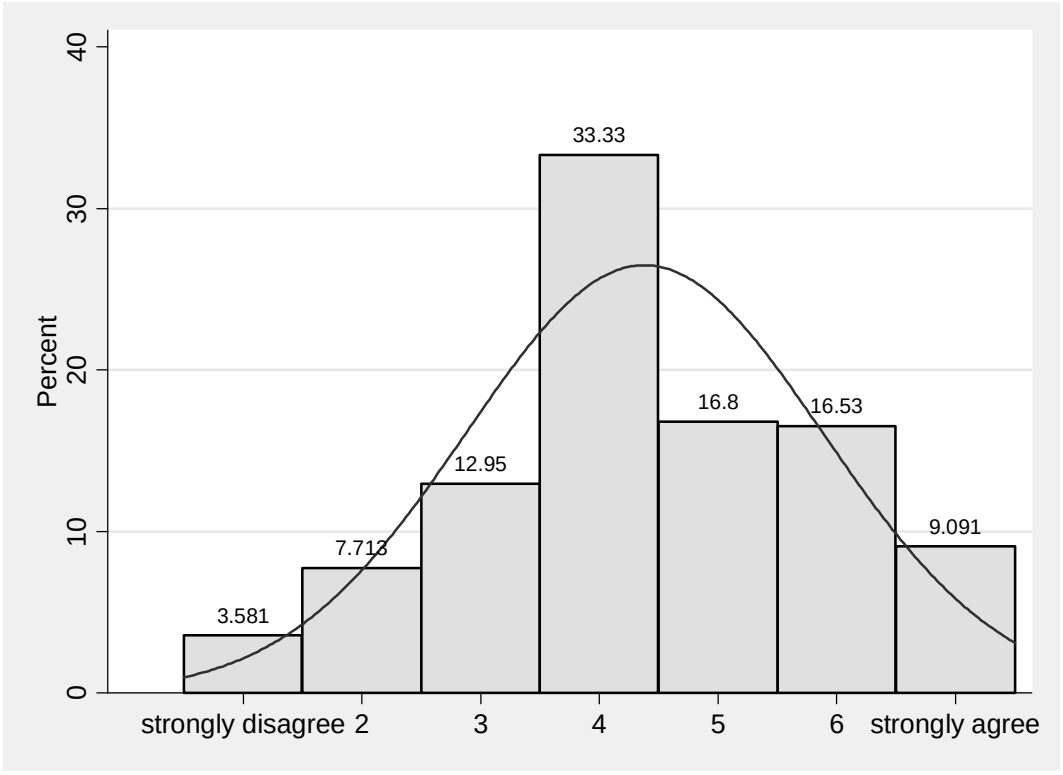


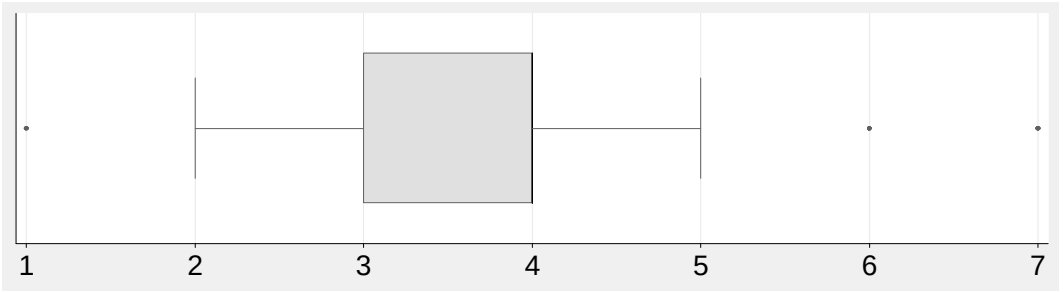


41b. precipitation

under estimate 1 2 3 4 5 6 7 over estimate

Variable	Obs	Mean	Std. Dev.	Min	Max
Q88	355	3.83662	.9778969	1	7

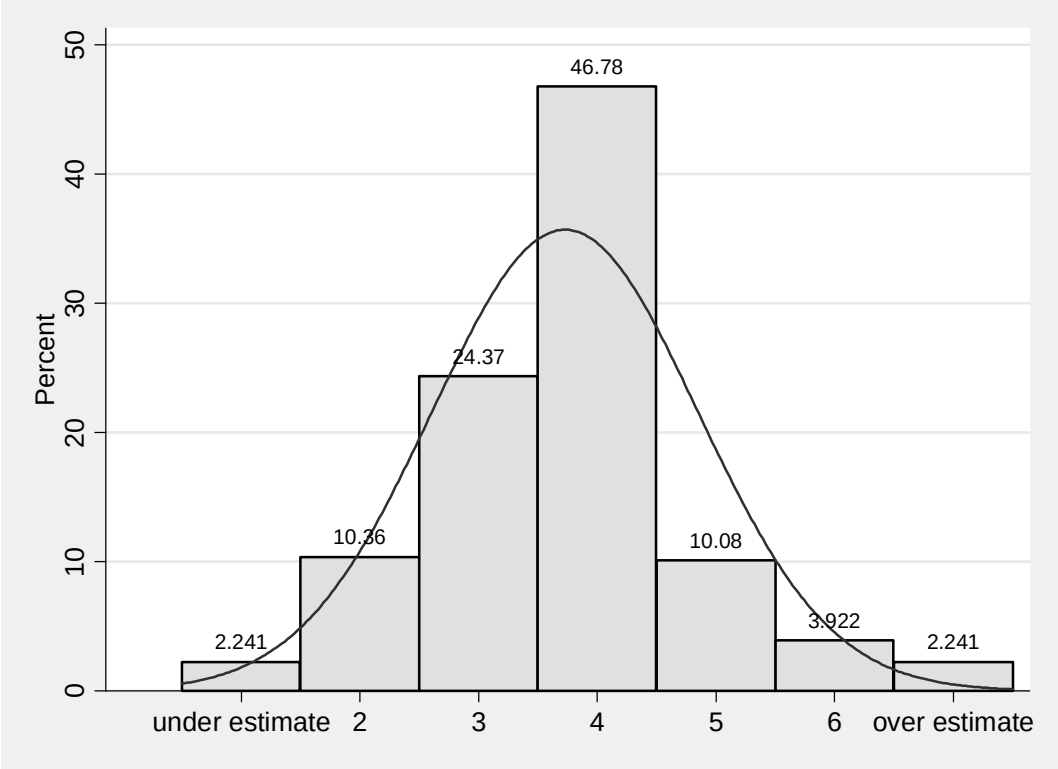


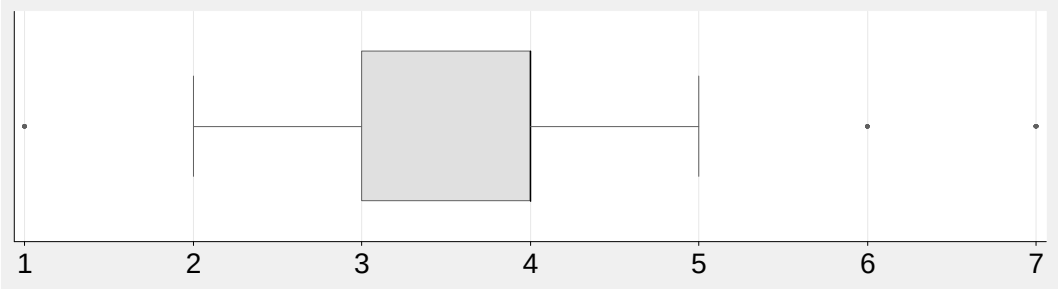


41c. sea level rise

under estimate 1 2 3 4 5 6 7 over estimate

Variable	Obs	Mean	Std. Dev.	Min	Max
Q89	**357**	**3.728291**	**1.117587**	**1**	**7**

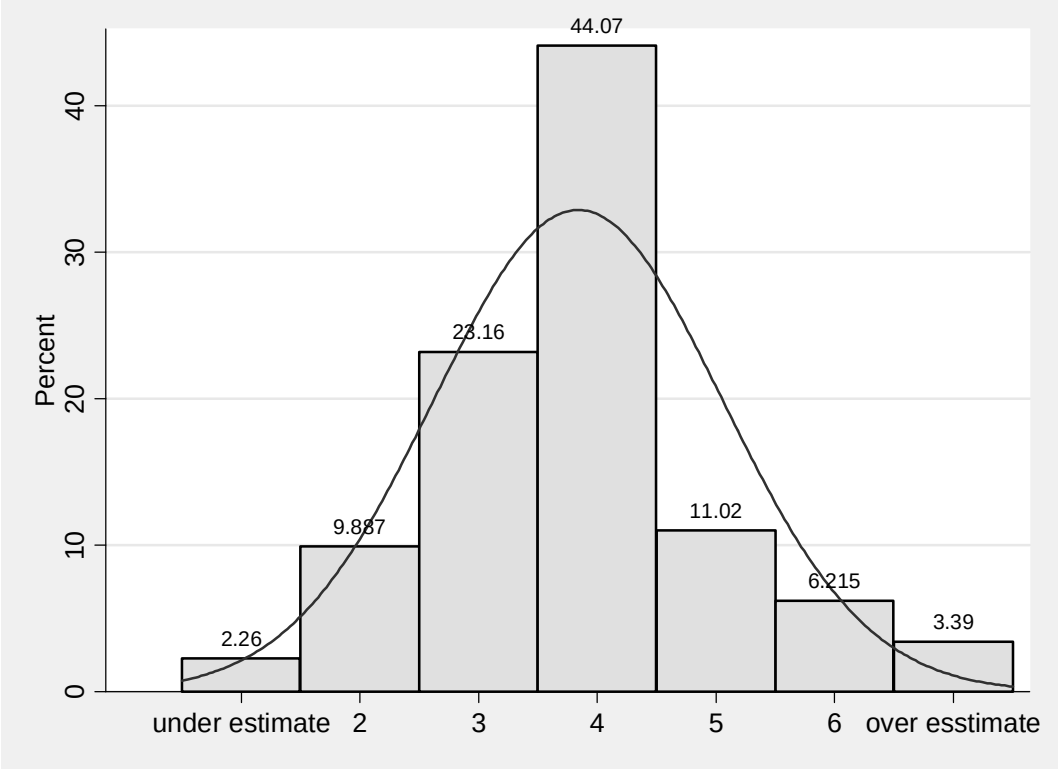


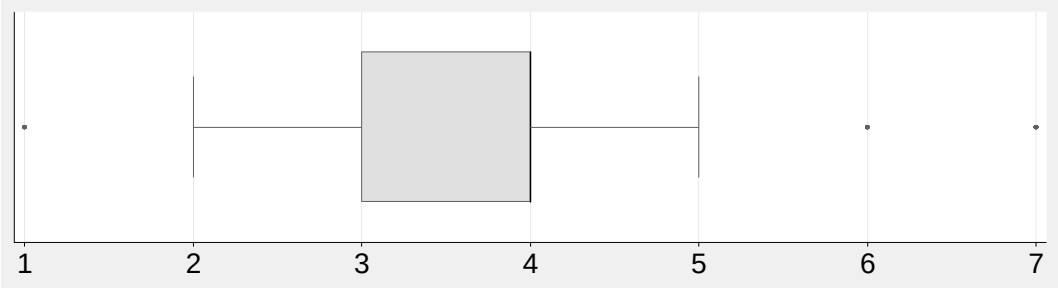


41d. extreme events

under estimate 1 2 3 4 5 6 7 over estimate

Variable	Obs	Mean	Std. Dev.	Min	Max
Q90	354	3.838983	1.213501	1	7

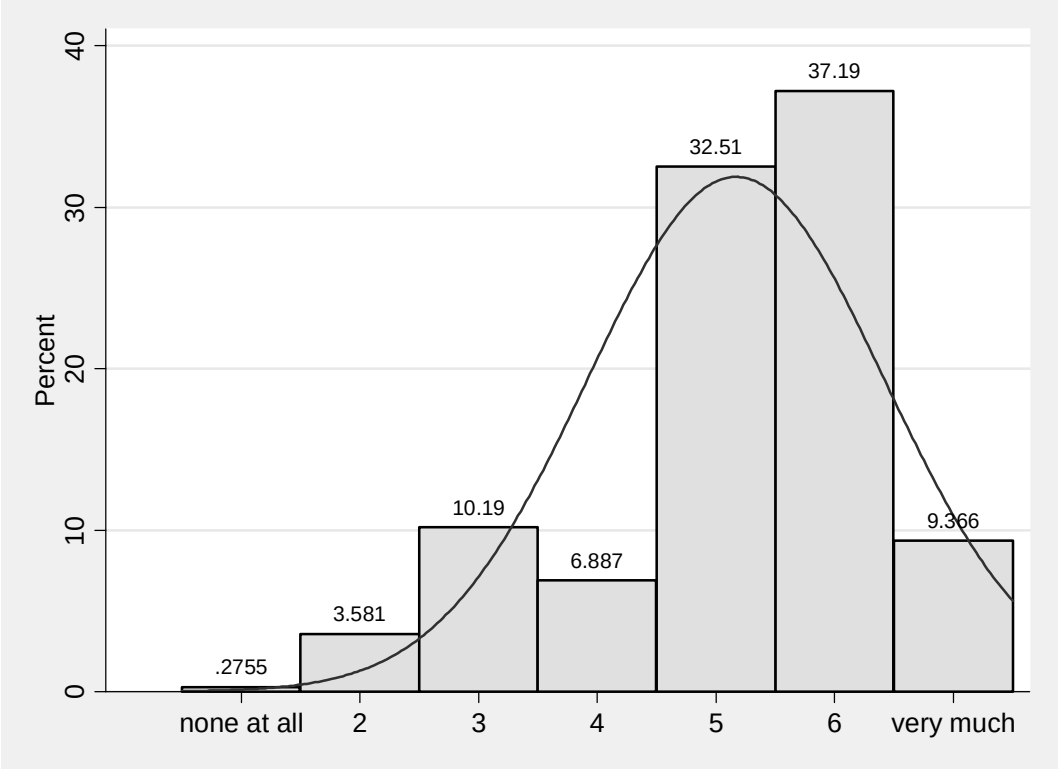


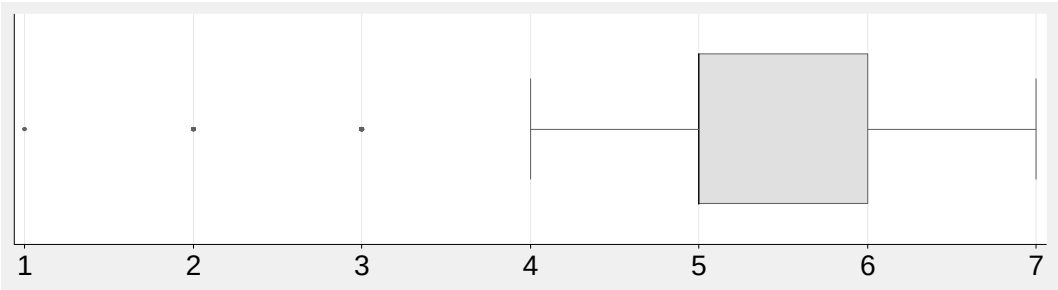


42. How much influence do you think the IPCC has over what areas come to be considered as worthy research topics?

not at all 1 2 3 4 5 6 7 very much

Variable	Obs	Mean	Std. Dev.	Min	Max
Q91	**363**	**5.168044**	**1.251242**	**1**	**7**

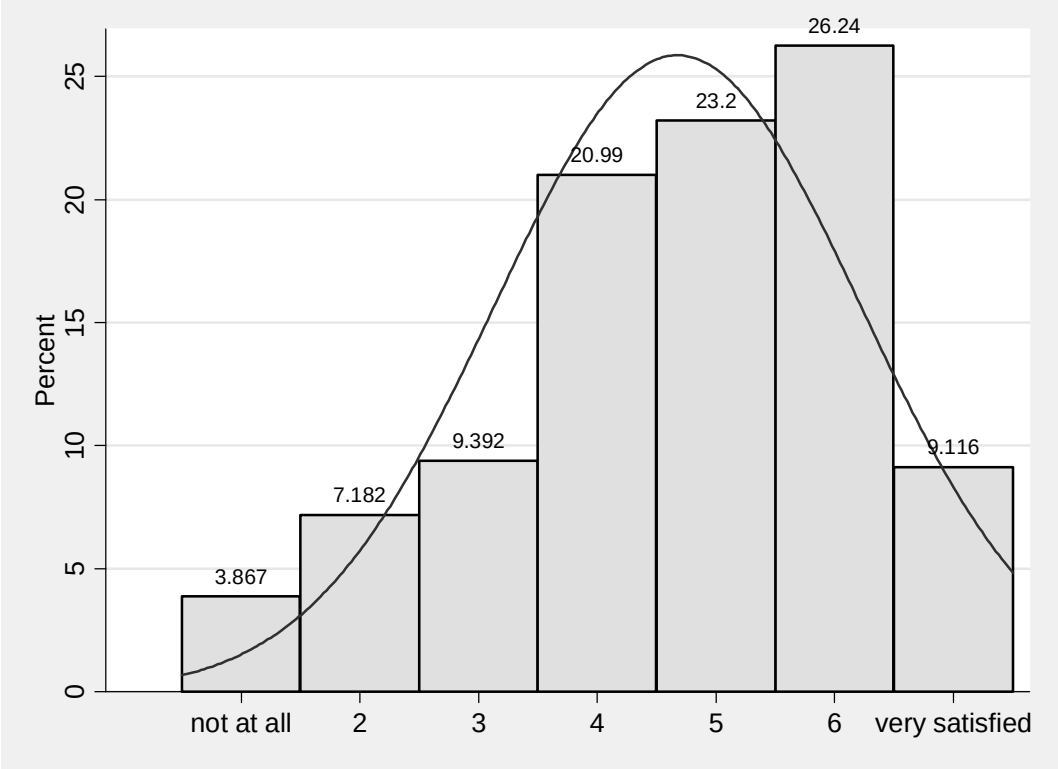


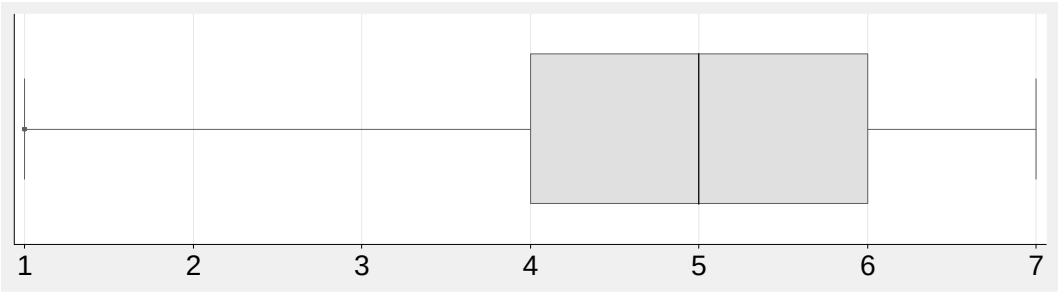


43. How satisfied are you with the process by which the IPCC Summary For Policy Makers reports are produced?

not at all 1 2 3 4 5 6 7 very satisfied

Variable	Obs	Mean	Std. Dev.	Min	Max
Q92	**362**	**4.676796**	**1.542729**	**1**	**7**

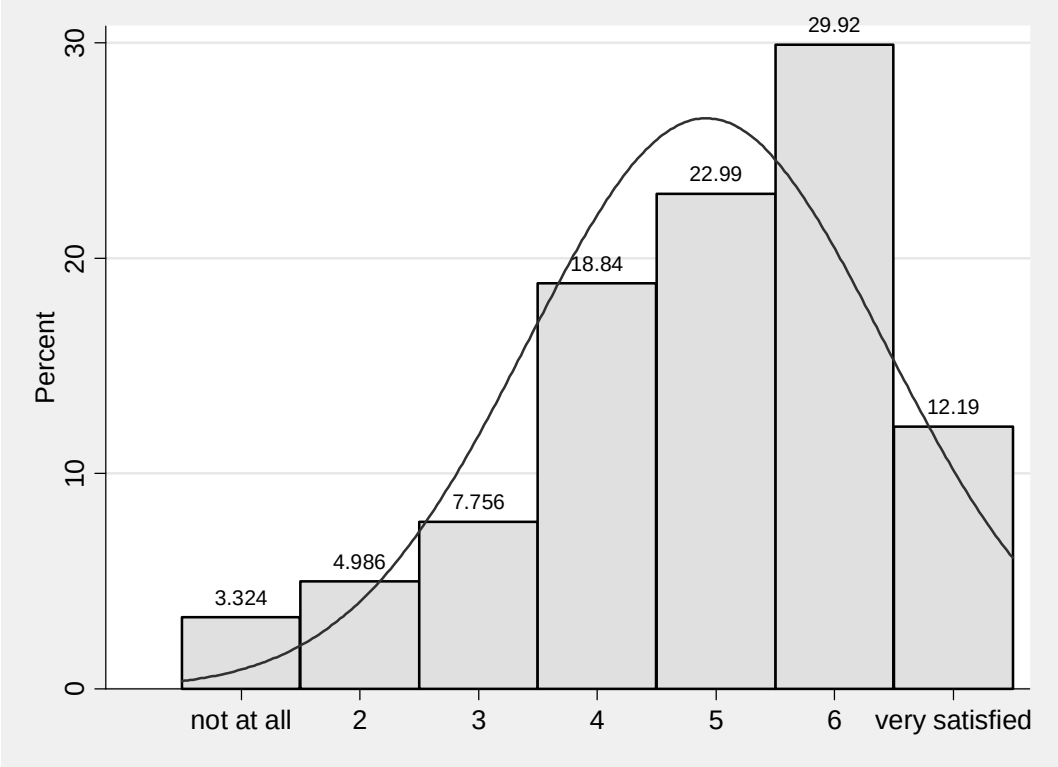


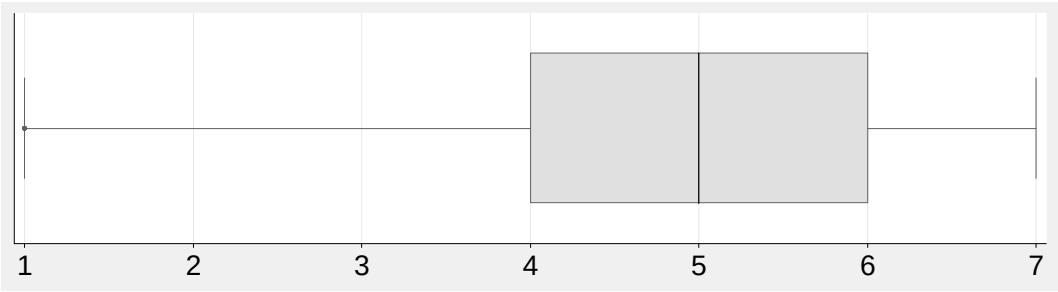


44. How satisfied are you with the IPCC review process?

not at all 1 2 3 4 5 6 7 very satisfied

Variable	Obs	Mean	Std. Dev.	Min	Max
Q93	**361**	**4.916898**	**1.50509**	**1**	**7**





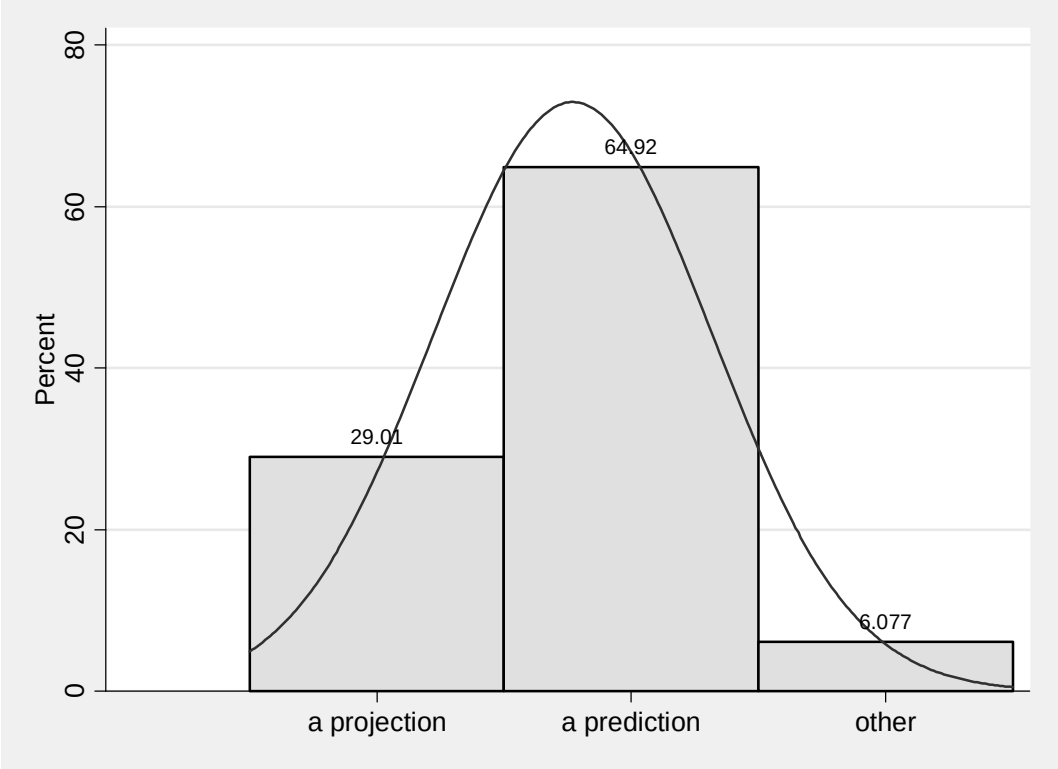
The Communication of Climate Science

In this section we would like to ask you about the communication of the findings of climate science to the audience extending beyond climate scientists.

Often in the interpretation of scientific knowledge by a non-scientific audience there is the potential for the misunderstanding of terms. This has been the case with the use of the terms projection and prediction. For the sake of clarification:

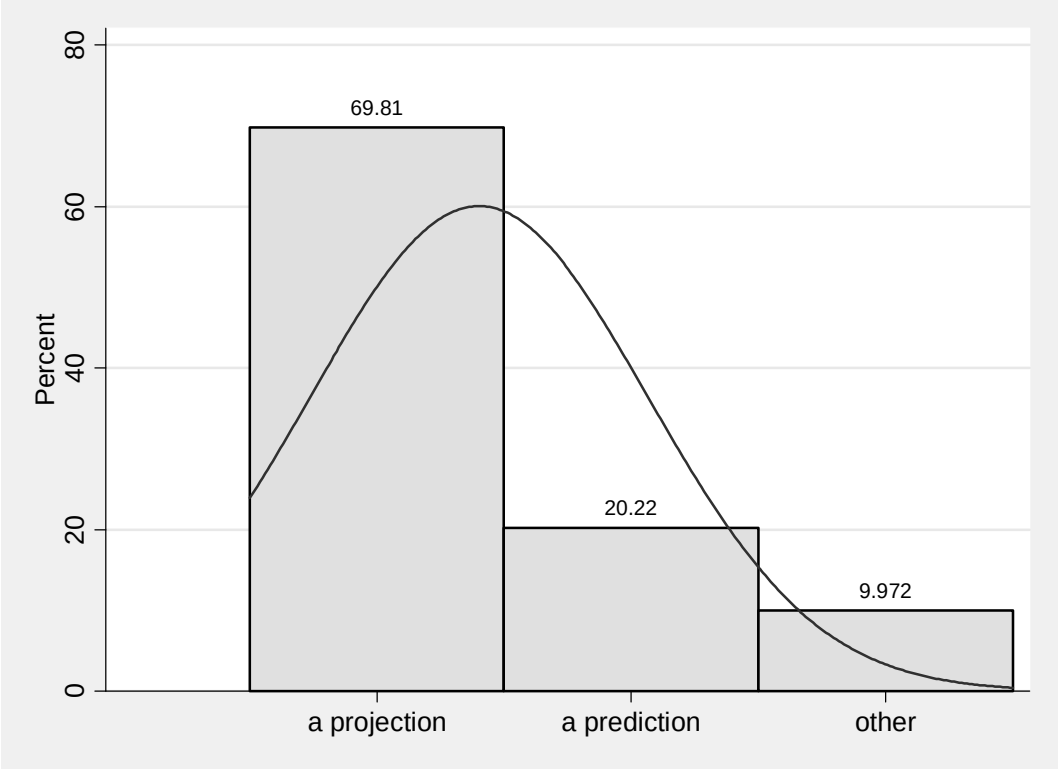
45. A description of the most probable outcome best defines

- a projection
- a prediction
- other



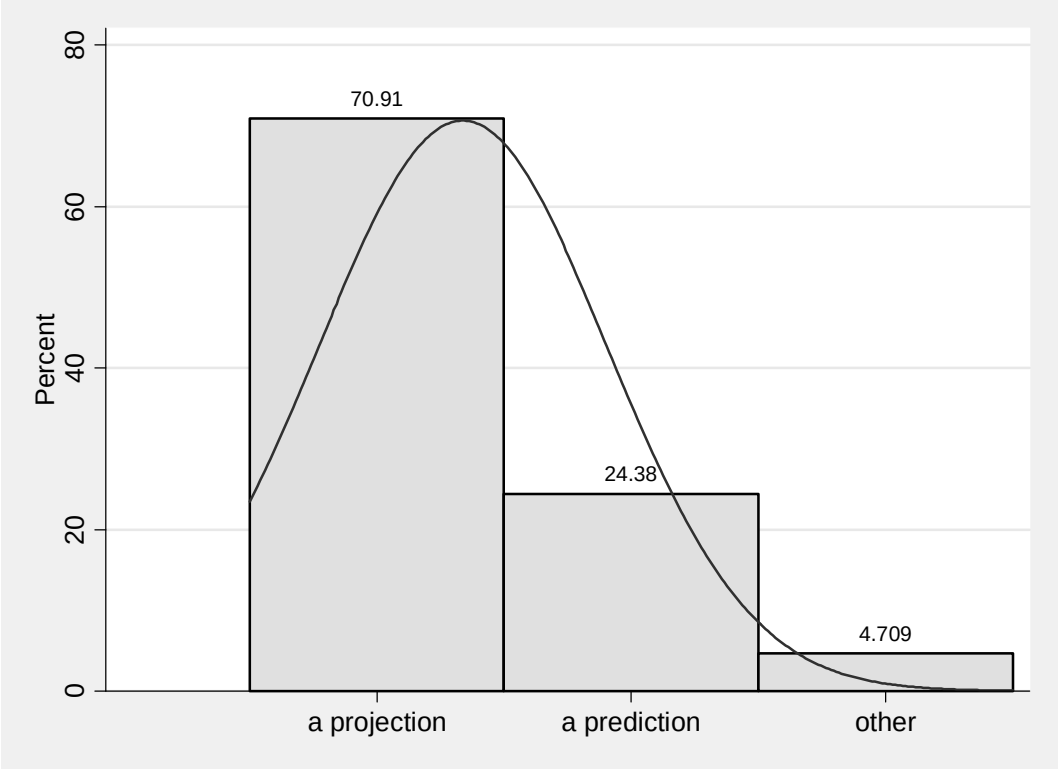
46. A description of a possible outcome best defines a

- a projection
- a prediction
- other



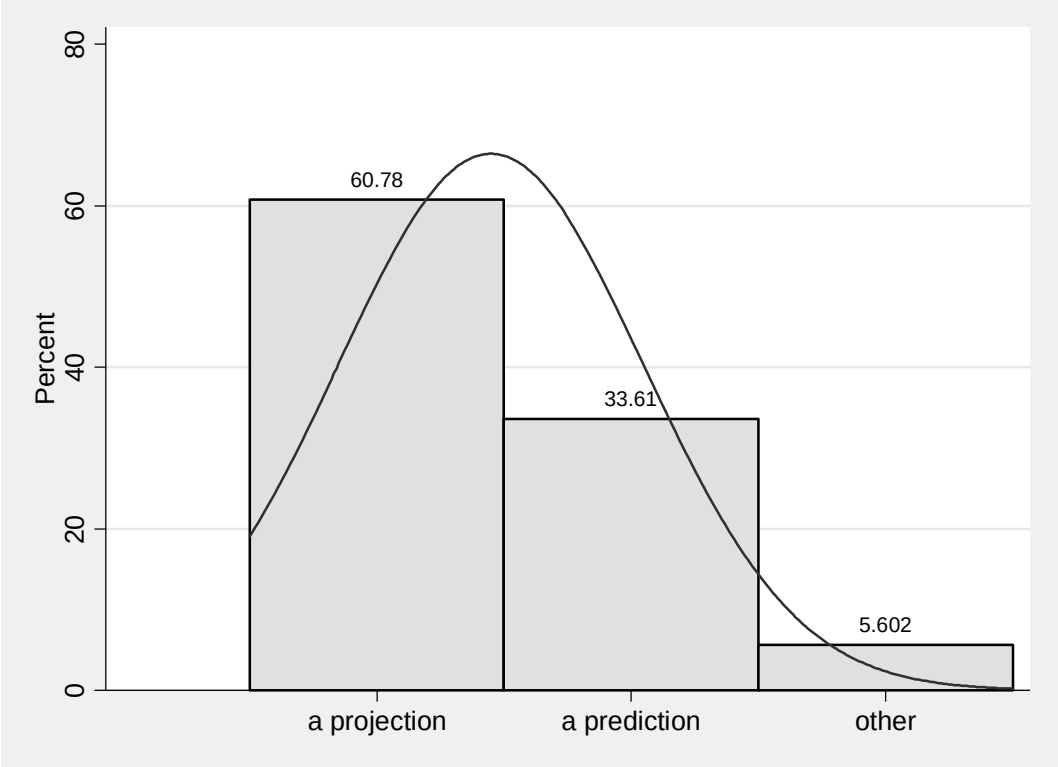
47. From the output of *global* climate models, climate scientists are more inclined to make

- a projection
- a prediction
- other



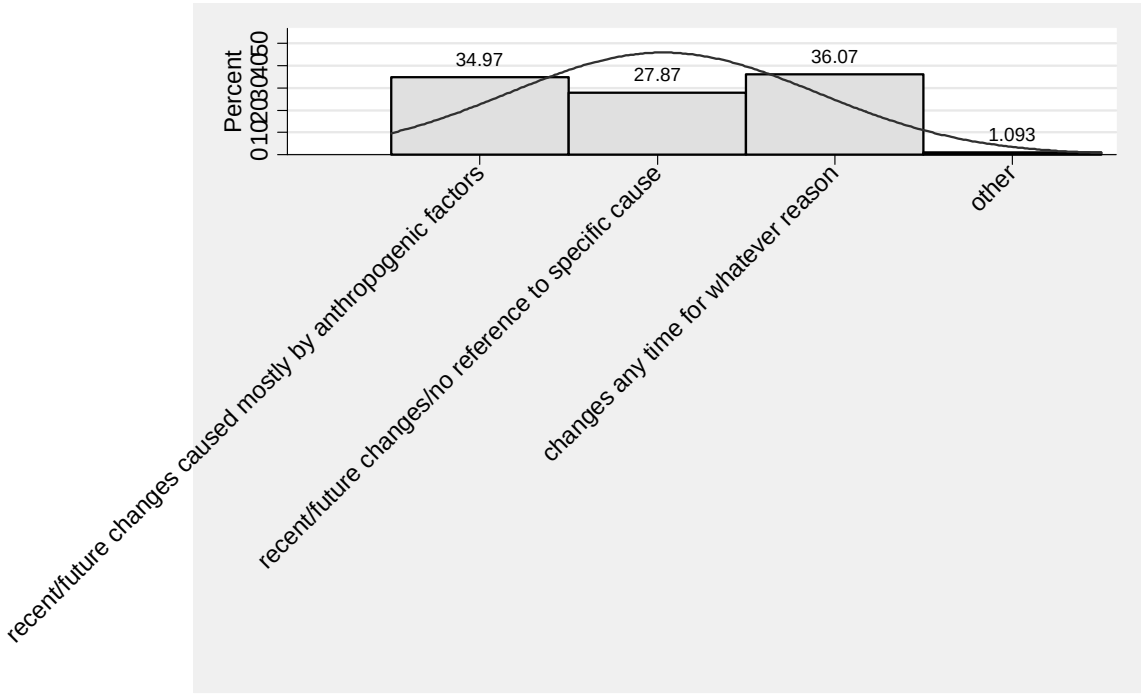
48. From the output of *regional* climate models, climate scientists are more inclined to make

- a projection
- a prediction
- other



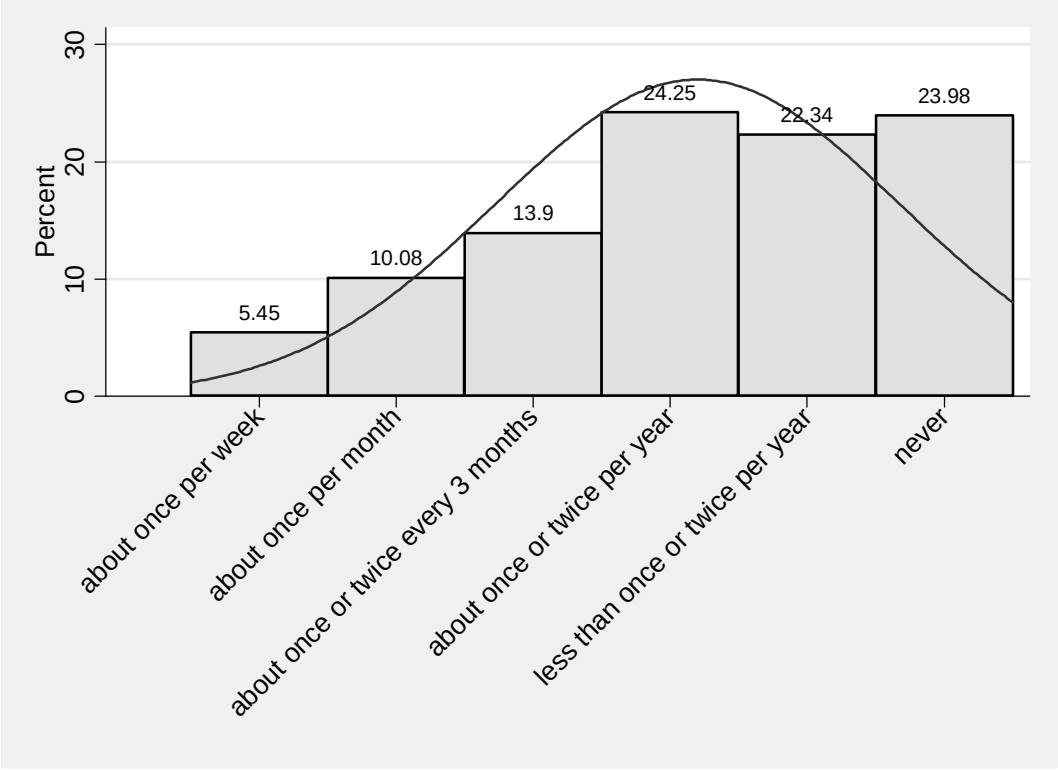
49. For you, in daily use, the term climate change would typically be understood as referring to:

- recent and future changes caused mostly by anthropogenic factors
- recent and future changes without reference to a specific cause
- changes in climate at any time for whatever reason
- other



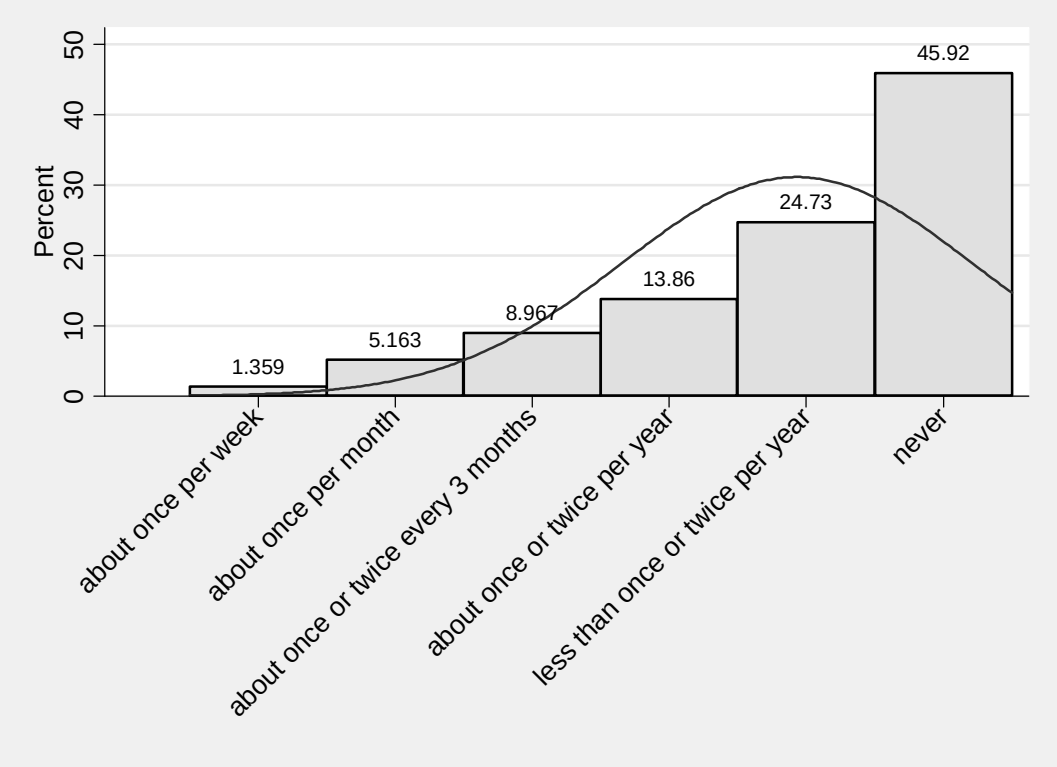
50. Approximately how often are you contacted by the *media* for information pertaining to climate change?

- about once per week
- about once per month
- about once or twice every three months
- about once or twice per year
- never



51. Approximately how often are you contacted by those people who make *policy* decisions for information pertaining to climate change?

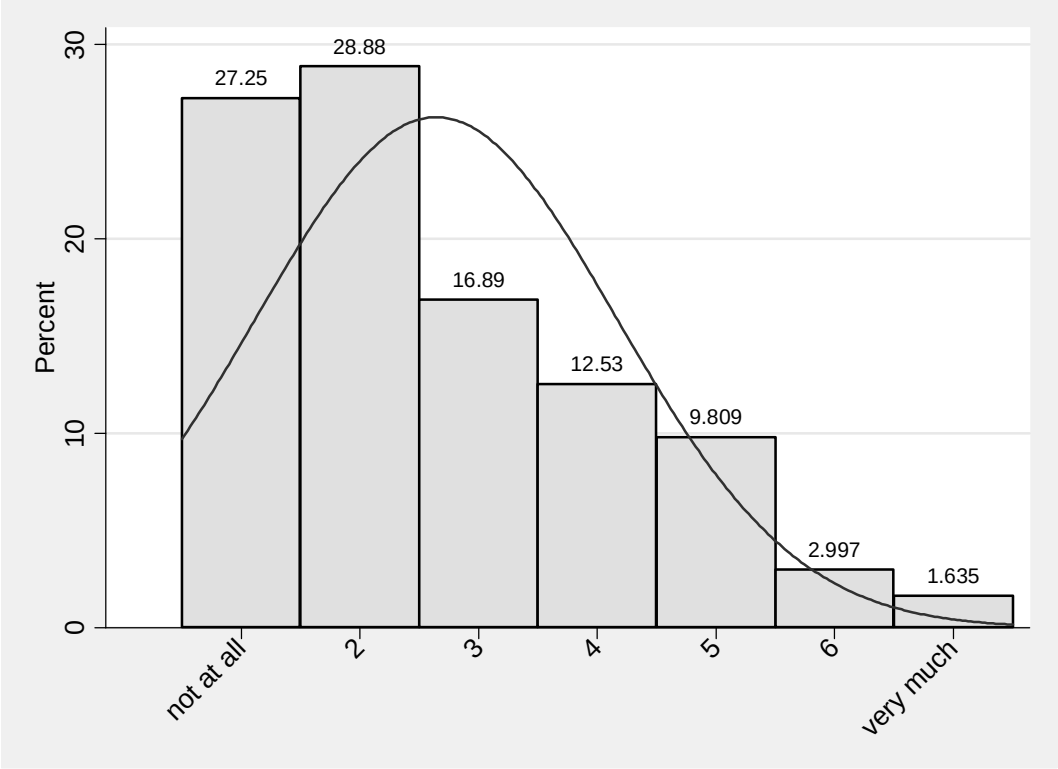
- about once per week
- about once per month
- about once or twice every three months
- about once or twice per year
- never

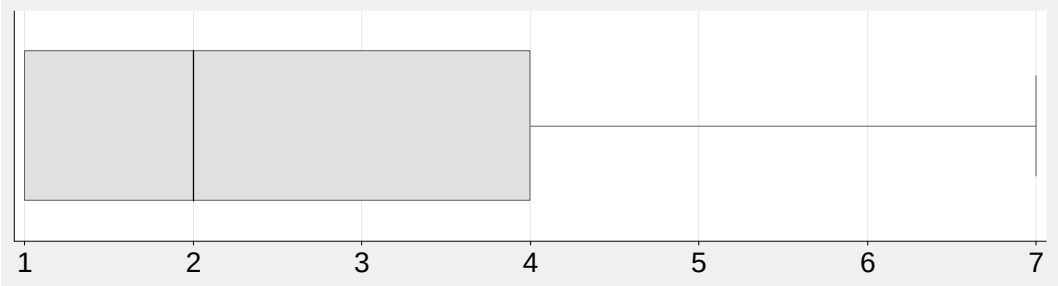


52. Some scientists present extreme accounts of catastrophic impacts related to climate change in a popular format with the claim that it is their task to alert the public. How much do you agree with this practice?

not at all 1 2 3 4 5 6 7 very much

Variable	Obs	Mean	Std. Dev.	Min	Max
Q101	**367**	**2.643052**	**1.518771**	**1**	**7**

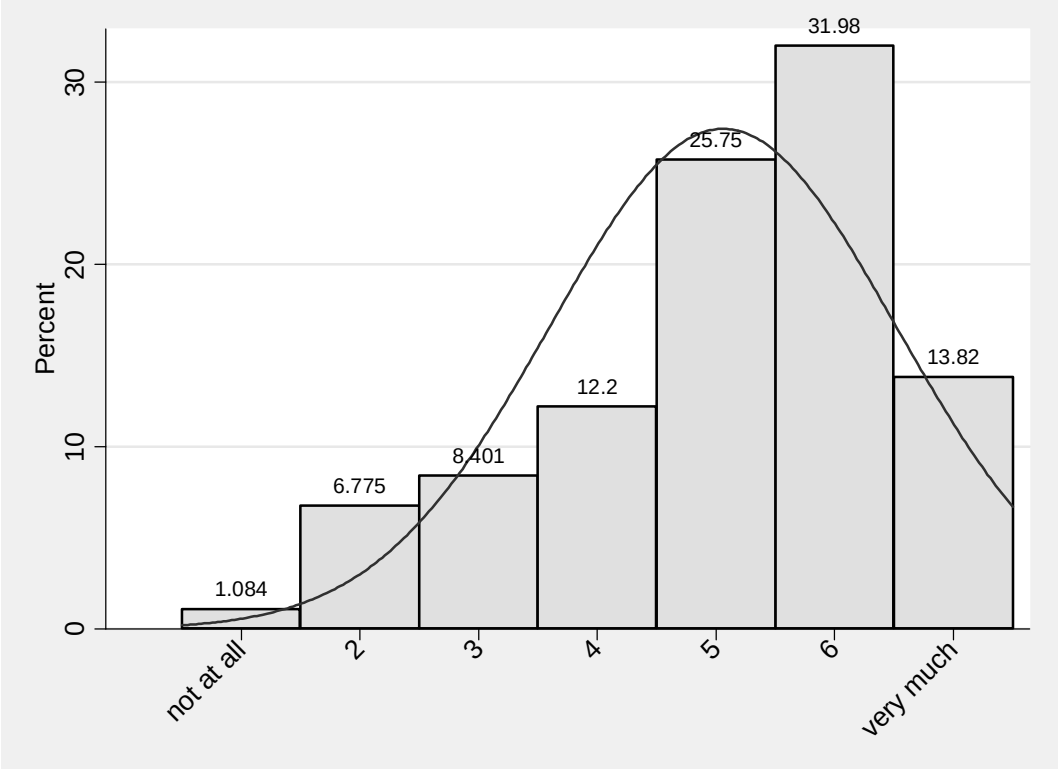


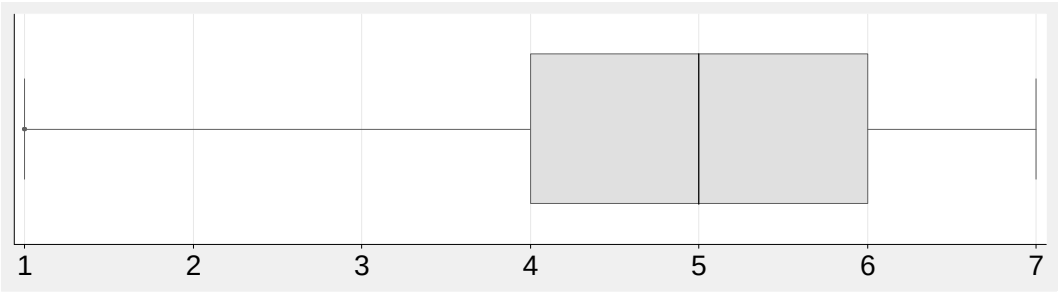


53. How much do you think climate scientists should be directly involved in alerting the general public to the possible *human* consequences arising from changes in the climate?

not at all 1 2 3 4 5 6 7 very much

Variable	Obs	Mean	Std. Dev.	Min	Max
Q102	**369**	**5.059621**	**1.454648**	**1**	**7**

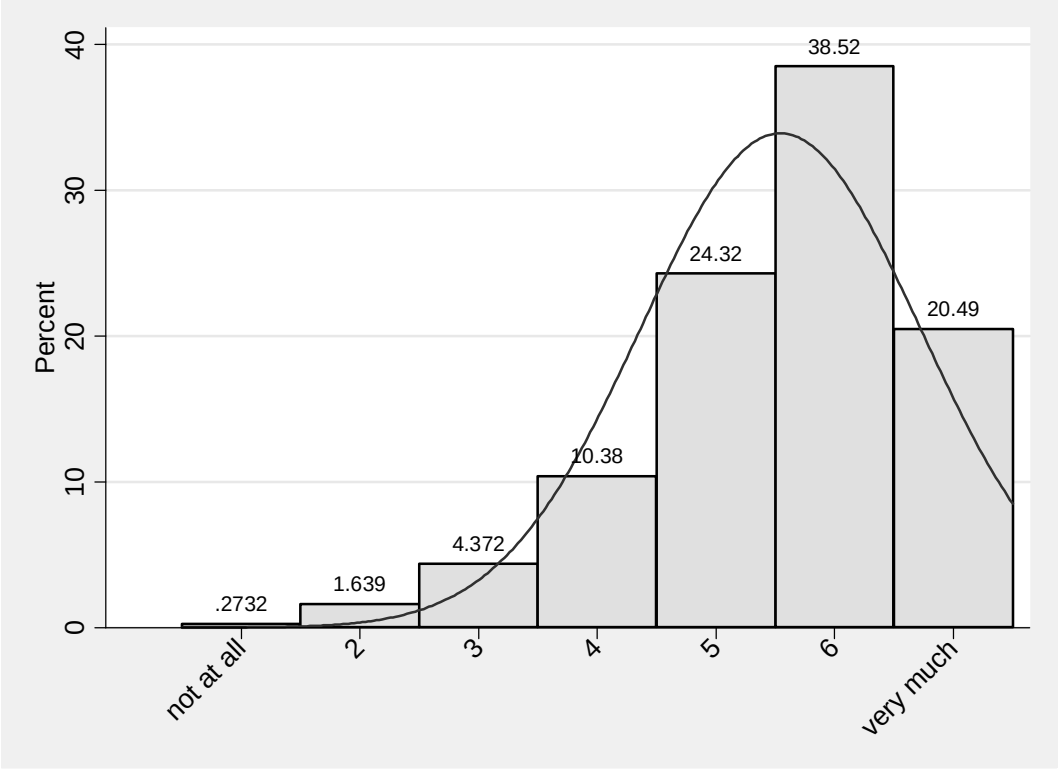


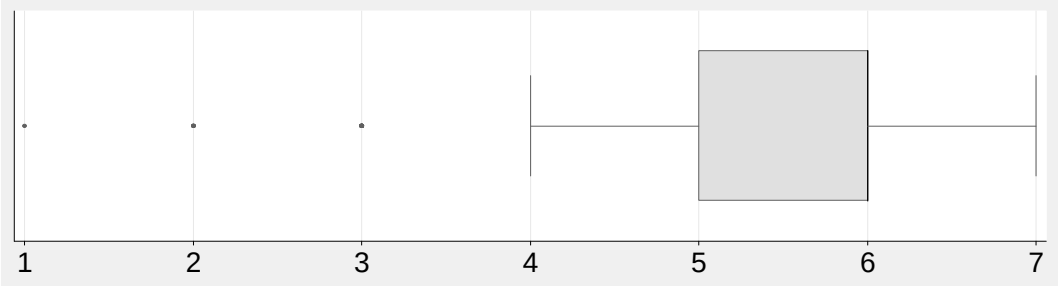


54. How much do you think climate scientists should be directly involved in the provision of climate change information about the impacts to the *natural world* by climate change to the public.

not at all 1 2 3 4 5 6 7 very much

Variable	Obs	Mean	Std. Dev.	Min	Max
Q103	**366**	**5.543716**	**1.176017**	**1**	**7**

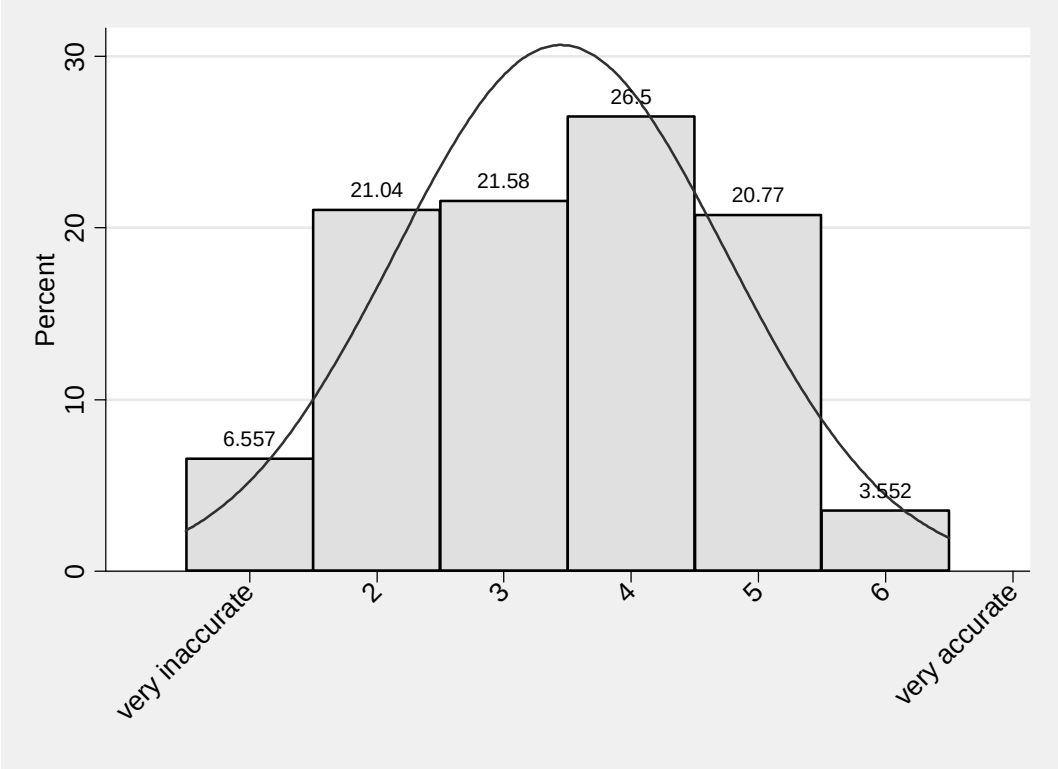


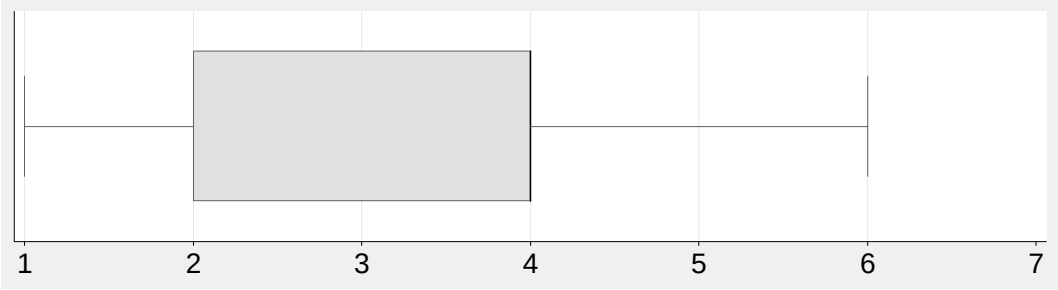


55. Comments about climate change made by environmental activist groups are generally

very inaccurate 1 2 3 4 5 6 7 very accurate

Variable	Obs	Mean	Std. Dev.	Min	Max
Q104	366	3.445355	1.30164	1	6

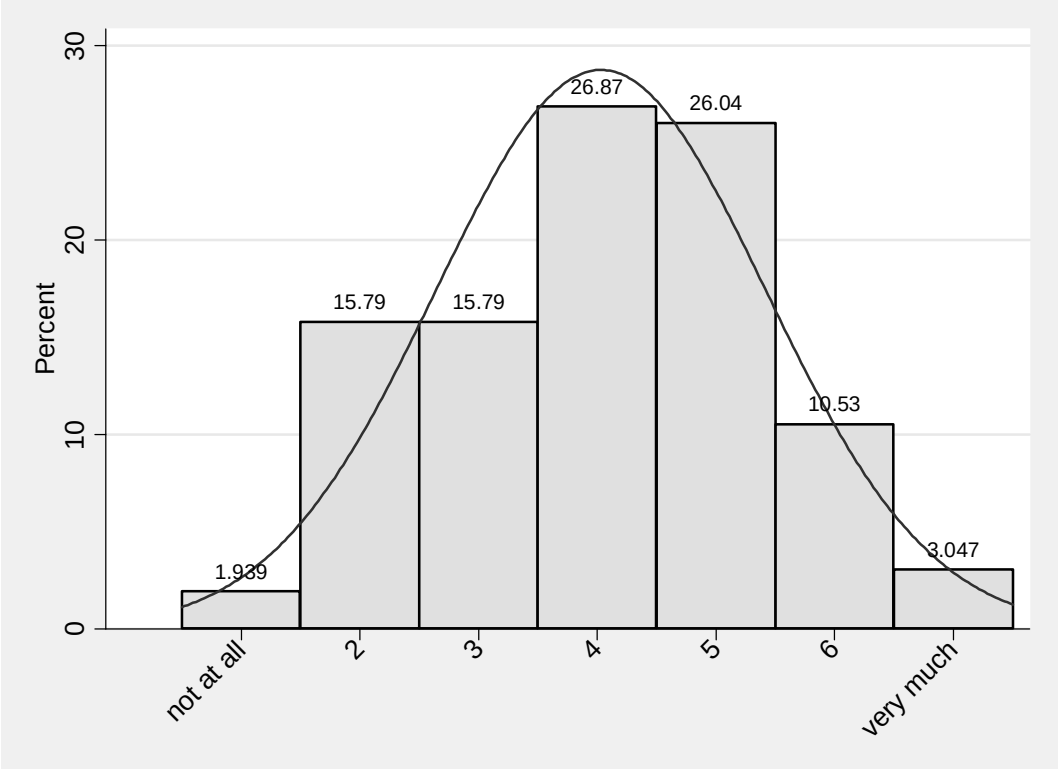


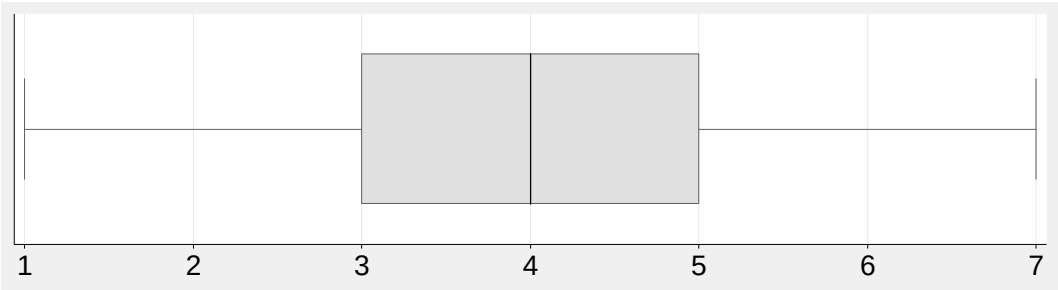


56. To what extent are those scientists claiming that climate change is a hoax the people most likely to be listened to by those involved in making *policy* decisions?

not at all 1 2 3 4 5 6 7 very much

Variable	Obs	Mean	Std. Dev.	Min	Max
Q105	**361**	**4.030471**	**1.387108**	**1**	**7**

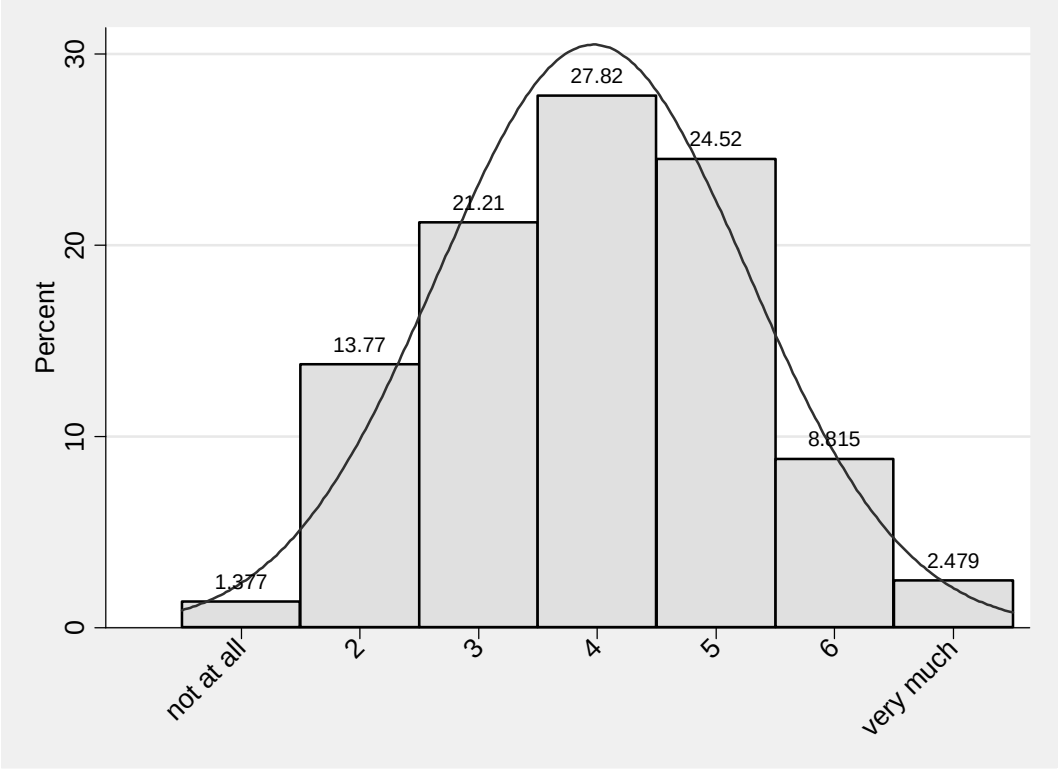


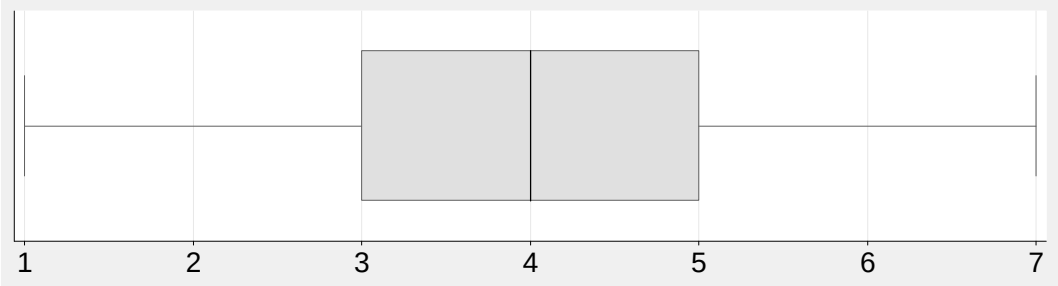


57. To what extent are those scientists who present the extreme accounts of catastrophic impacts and worst case scenarios related to climate change the people most likely to be listened to by those people involved in *policy* making?

not at all 1 2 3 4 5 6 7 very much

Variable	Obs	Mean	Std. Dev.	Min	Max
Q106	**363**	**3.966942**	**1.308286**	**1**	**7**

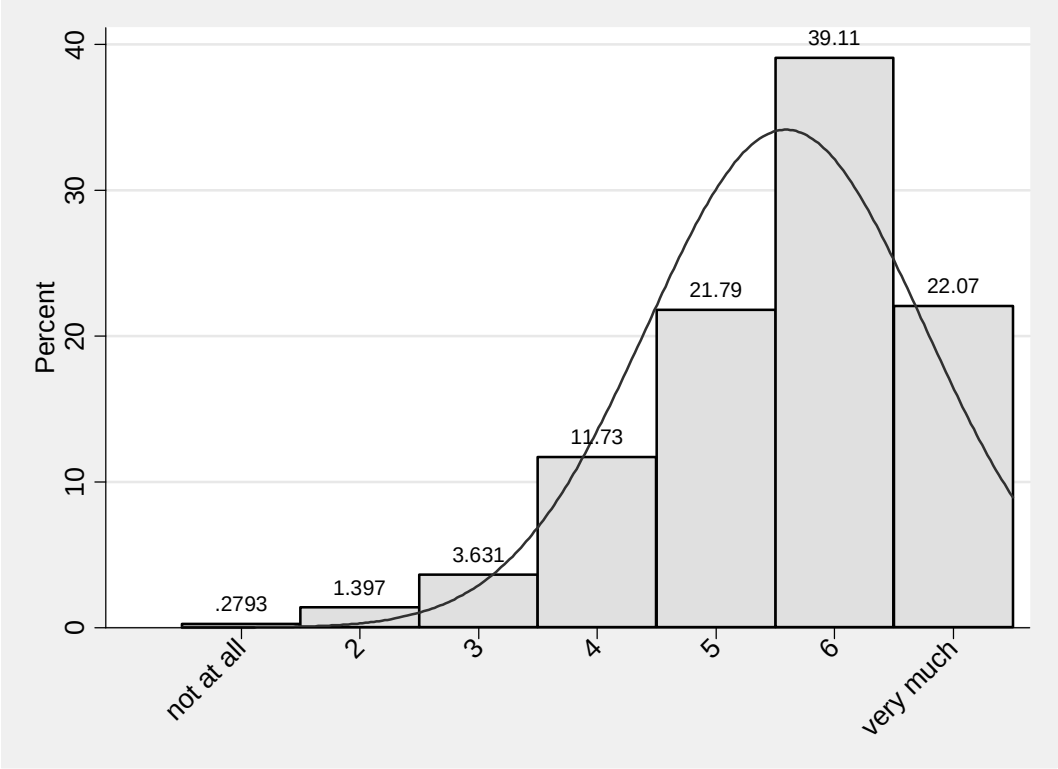


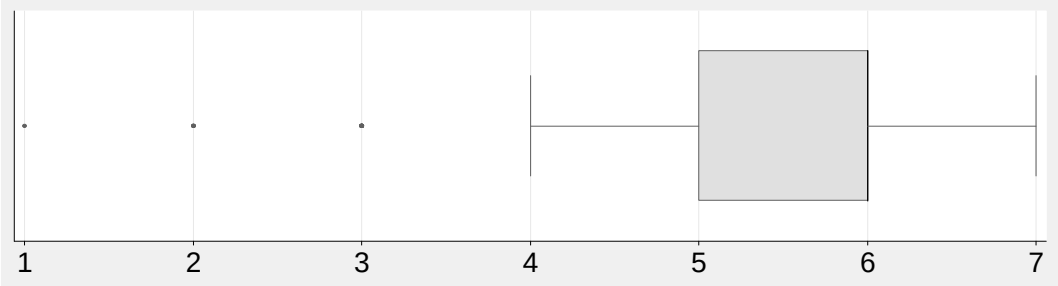


58. To what extent are those scientists who present the extreme accounts of catastrophic impacts and worst case scenarios related to climate change the people most likely to be listened to by *journalists*?

not at all 1 2 3 4 5 6 7 very much

Variable	Obs	Mean	Std. Dev.	Min	Max
Q107	358	5.589385	1.167534	1	7

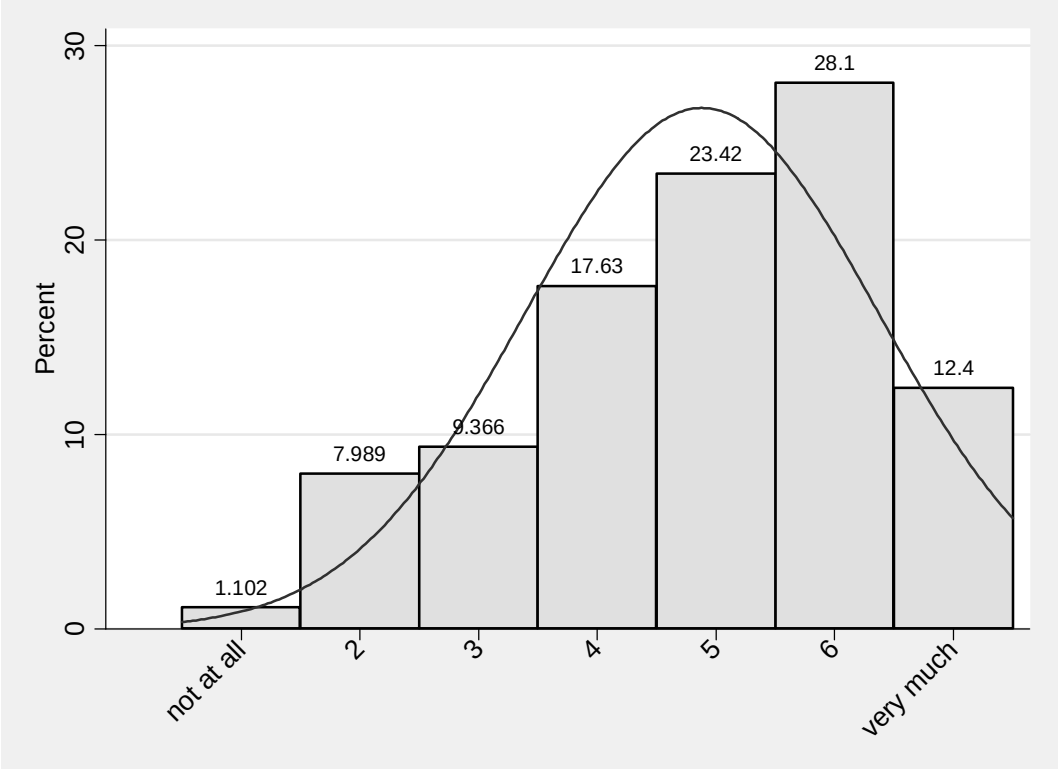


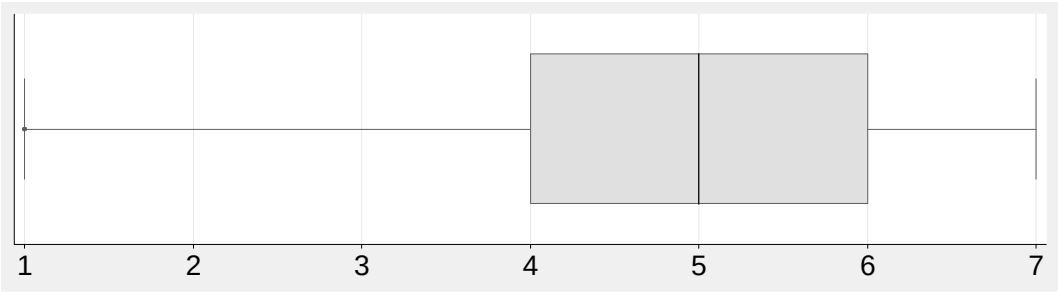


59. To what extent are those scientists claiming that climate change is a hoax the people most likely to be sought out by *journalist*?

not at all 1 2 3 4 5 6 7 very much

Variable	Obs	Mean	Std. Dev.	Min	Max
Q108	**363**	**4.881543**	**1.488358**	**1**	**7**

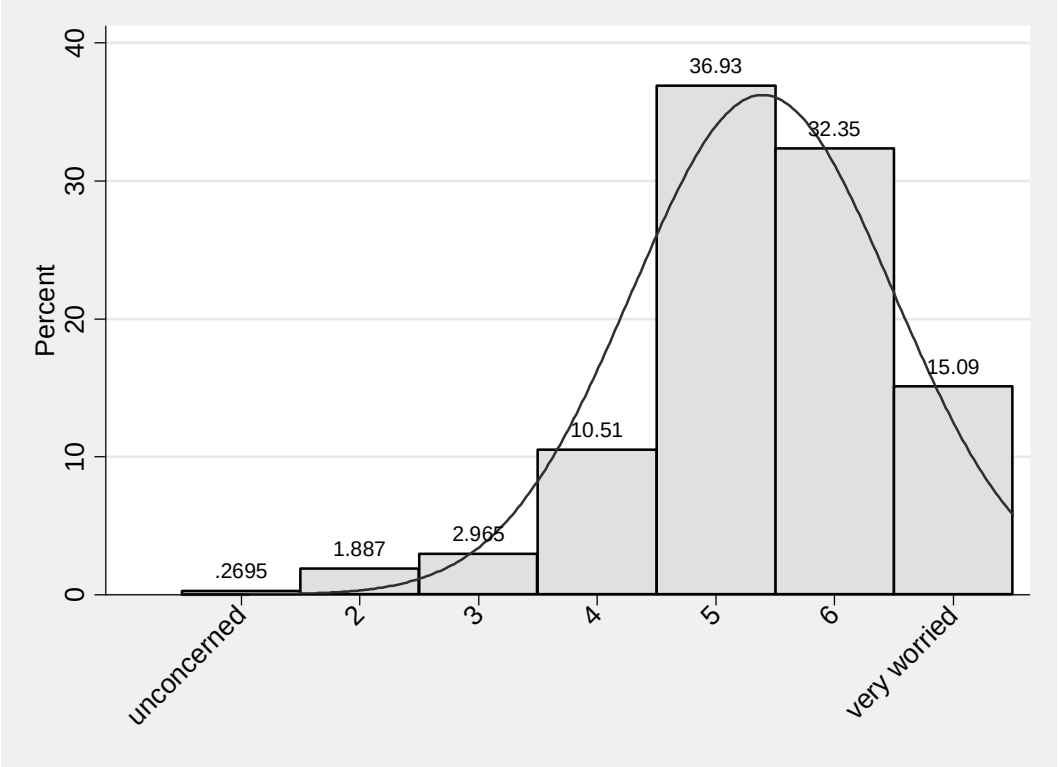


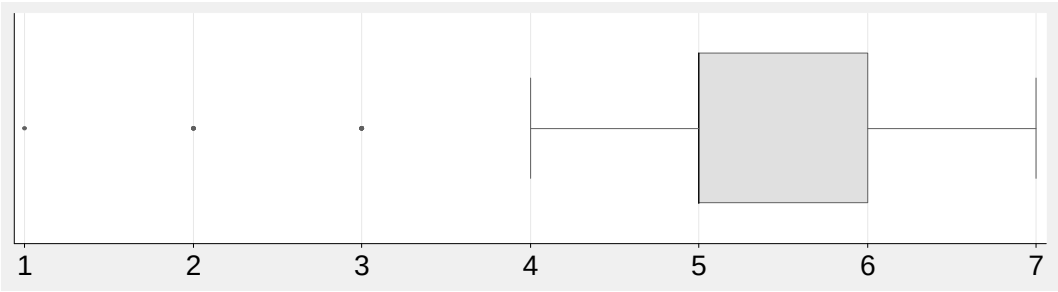


60. Over the issue of climate change, the general public should be told to be

unconcerned 1 2 3 4 5 6 7 very worried

Variable	Obs	Mean	Std. Dev.	Min	Max
Q109	371	5.393531	1.101037	1	7

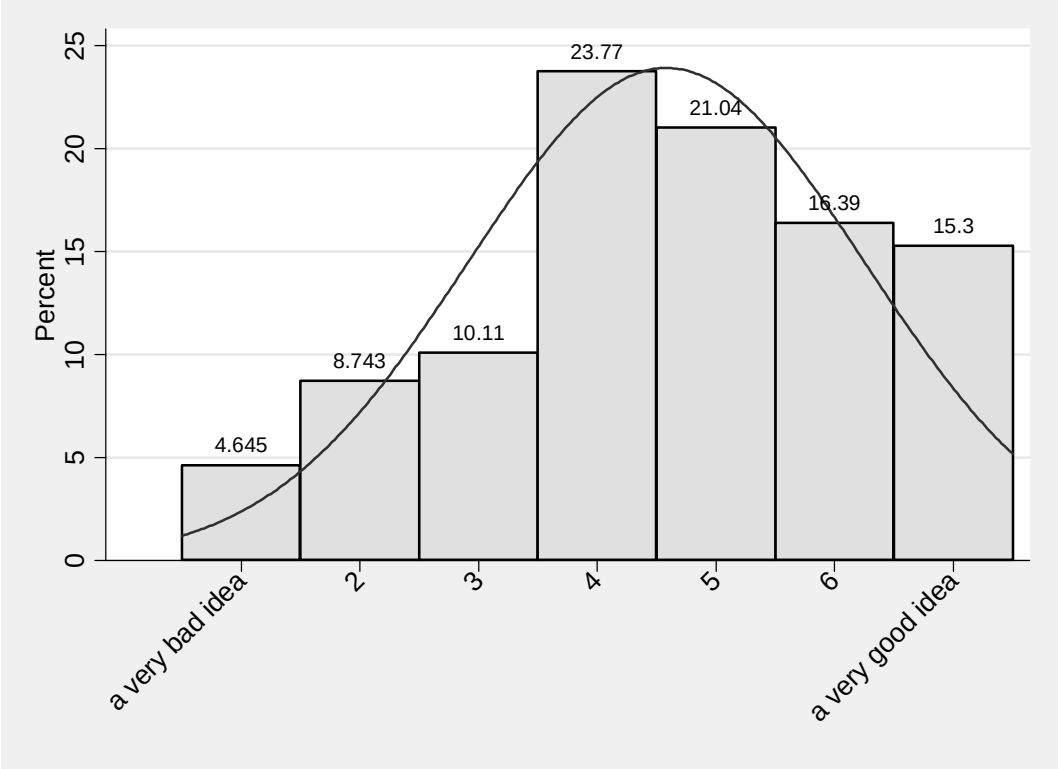


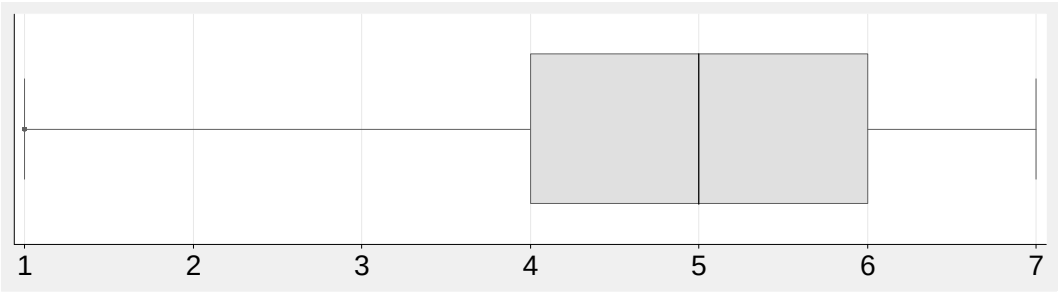


61. Making discussions of climate science open to potentially everyone through the use of blogs on the w.w.w is

A very bad idea 1 2 3 4 5 6 7 a very good idea

Variable	Obs	Mean	Std. Dev.	Min	Max
Q110	**366**	**4.581967**	**1.667613**	**1**	**7**

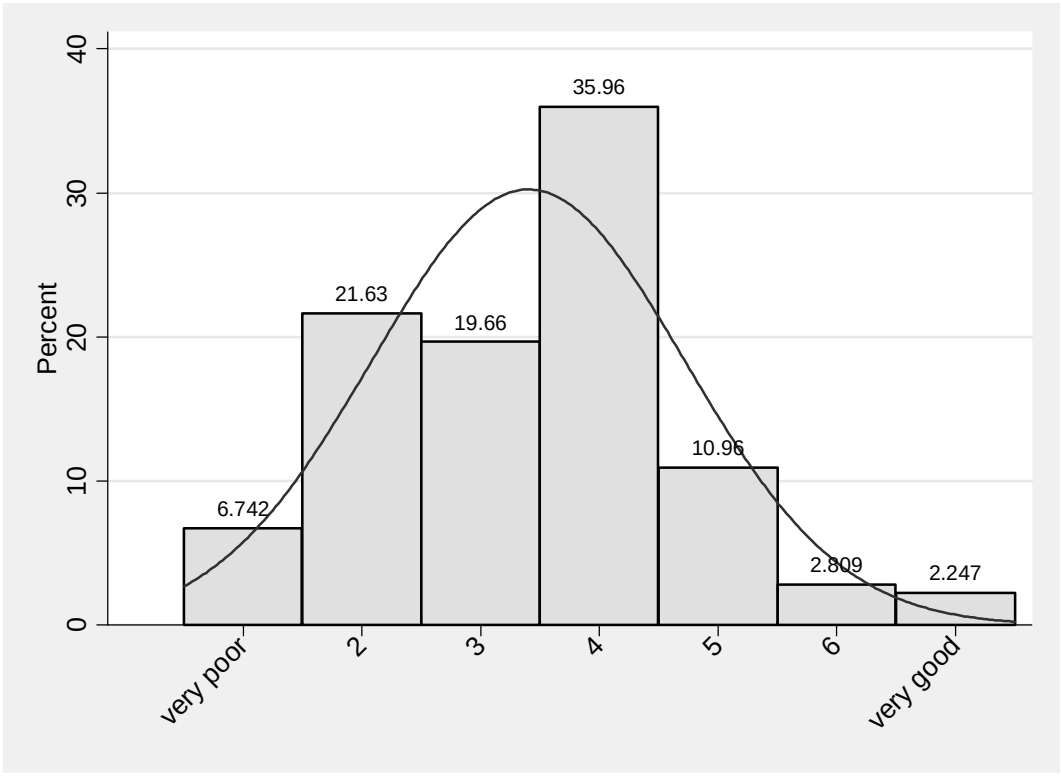


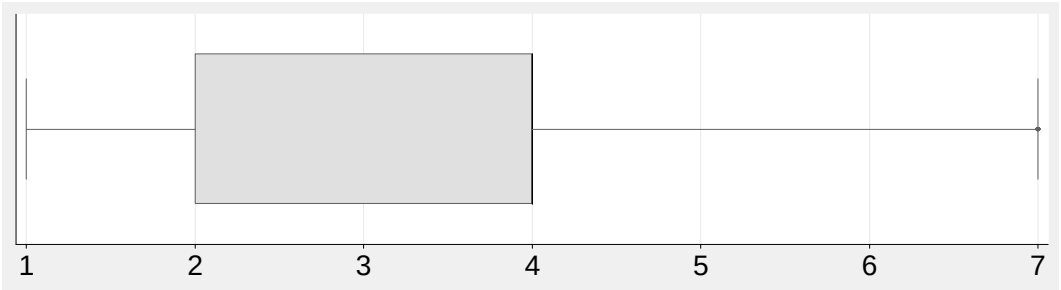


62. On blogs on the w.w.w., the quality of the scientific discussion of climate change is

very poor 1 2 3 4 5 6 7 very good

Variable	Obs	Mean	Std. Dev.	Min	Max
Q111	**356**	**3.401685**	**1.31894**	**1**	**7**

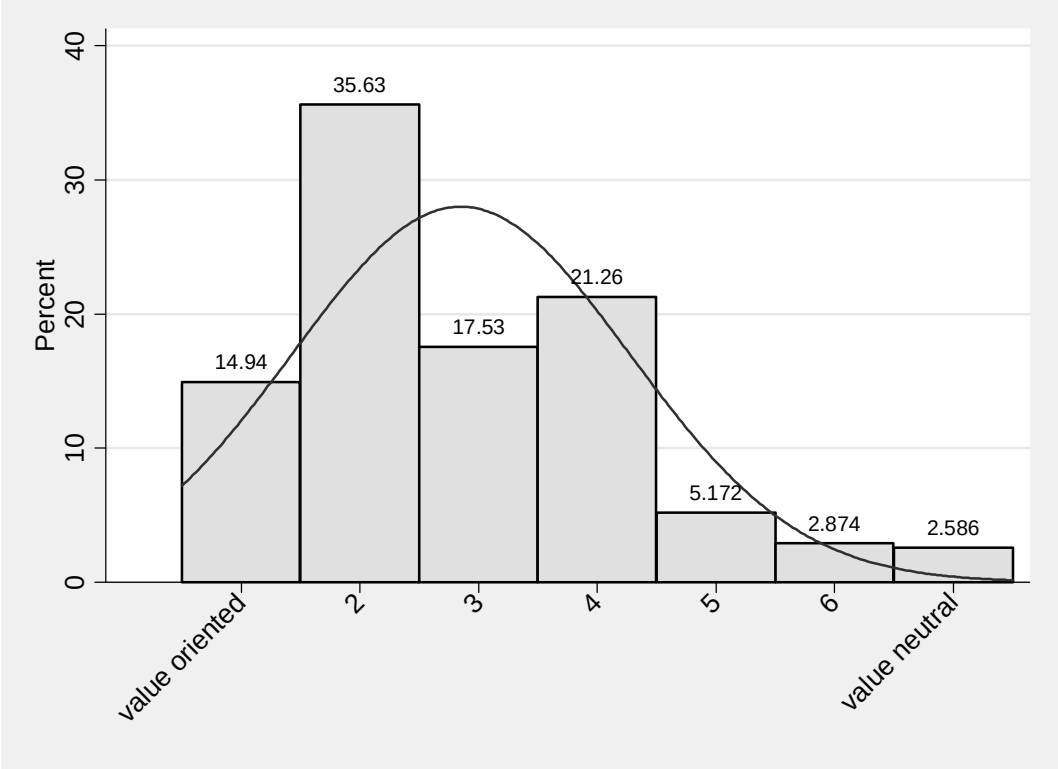


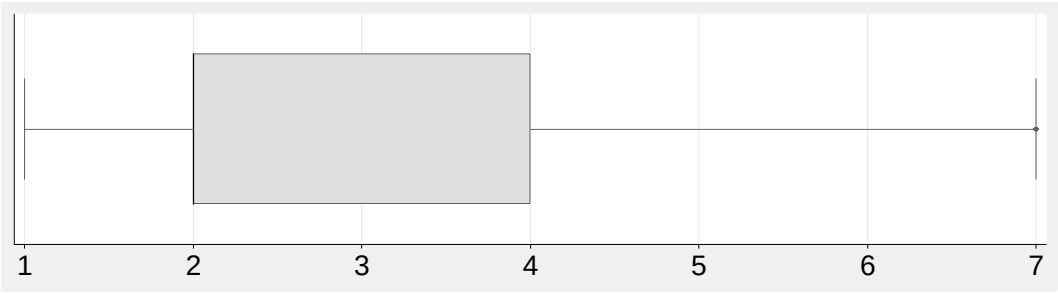


63. In general, the quality of the material on blogs, in comparison to peer reviewed articles in journals, could be described as being mostly

value oriented 1 2 3 4 5 6 7 value neutral

Variable	Obs	Mean	Std. Dev.	Min	Max
Q112	**348**	**2.850575**	**1.424599**	**1**	**7**

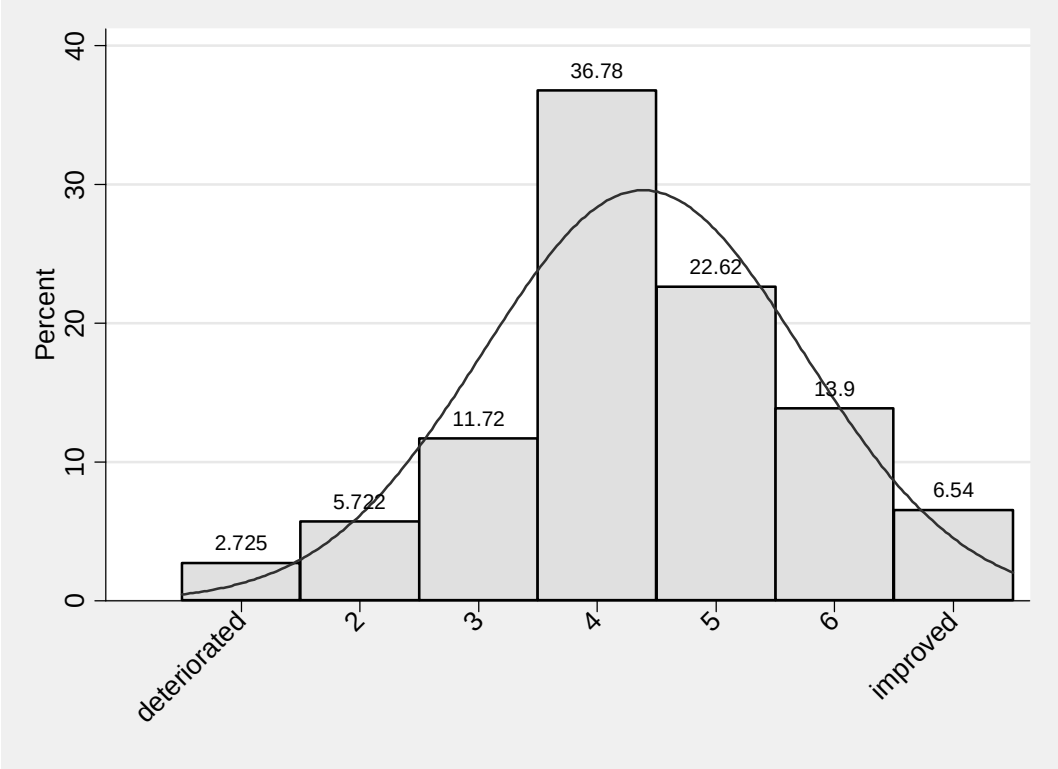


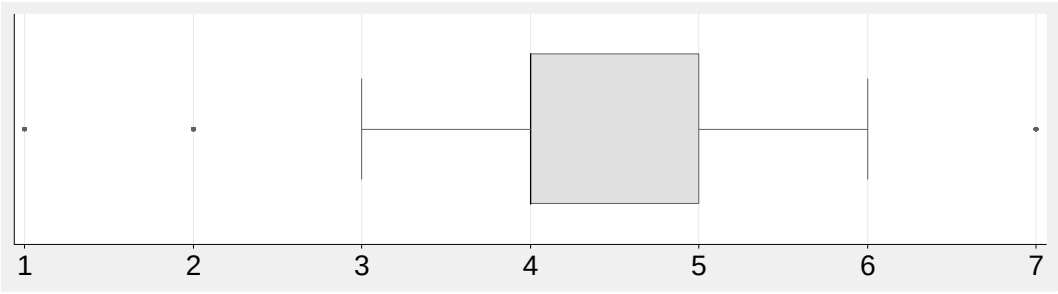


64. Over the years, the quality of published peer reviewed papers in climate science has generally

deteriorated 1 2 3 4 5 6 7 improved

Variable	Obs	Mean	Std. Dev.	Min	Max
Q113	**367**	**4.386921**	**1.347997**	**1**	**7**

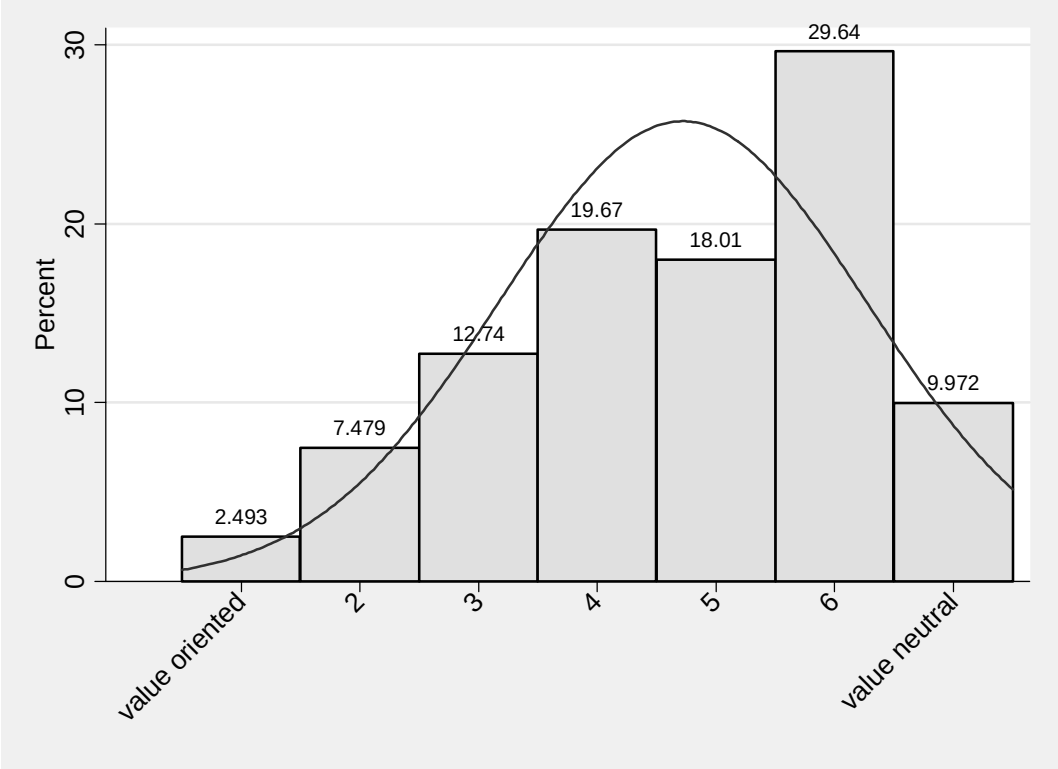


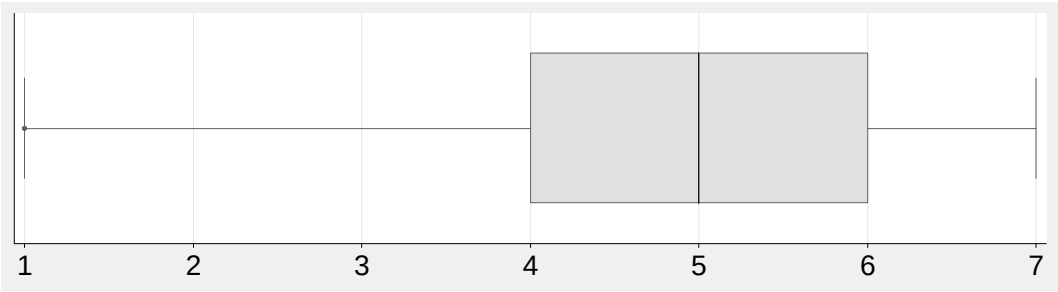


65. In general, the current peer review process in climate journals could be described as

value oriented 2 3 4 5 6 value neutral

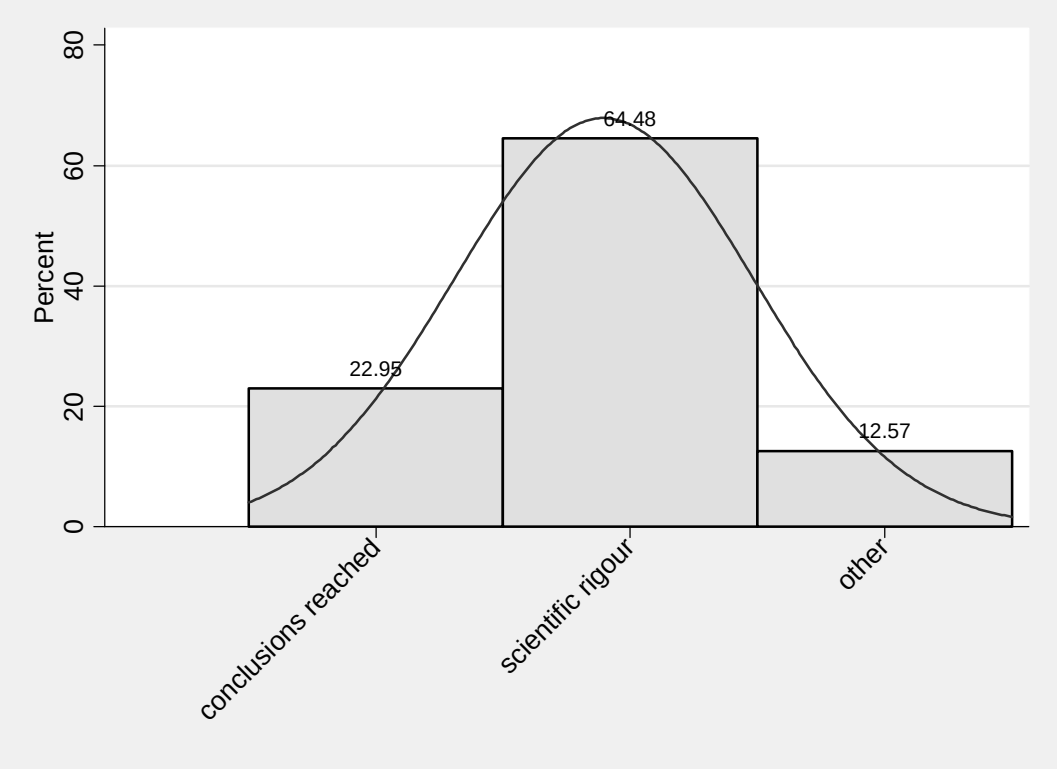
Variable	Obs	Mean	Std. Dev.	Min	Max
Q114	361	4.720222	1.549859	1	7





66. In your opinion, in determining what currently gets accepted in peer reviewed climate science publications, what plays the most significant role in the selection procedure?

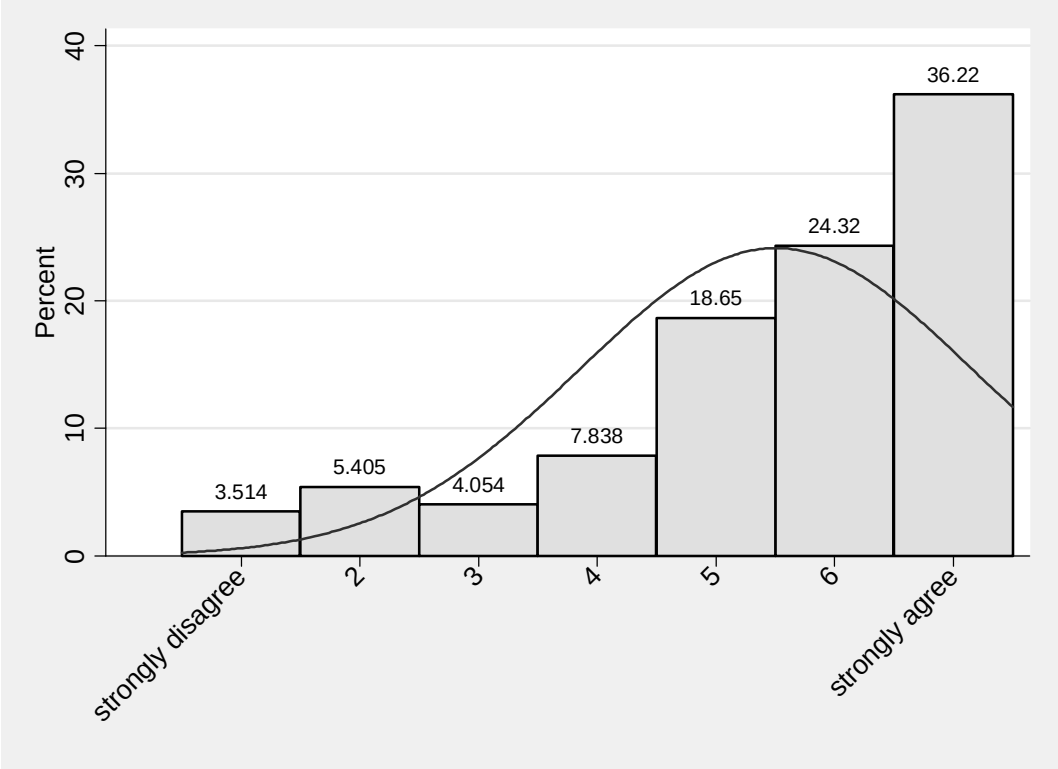
- conclusions reached
- scientific rigour
- other

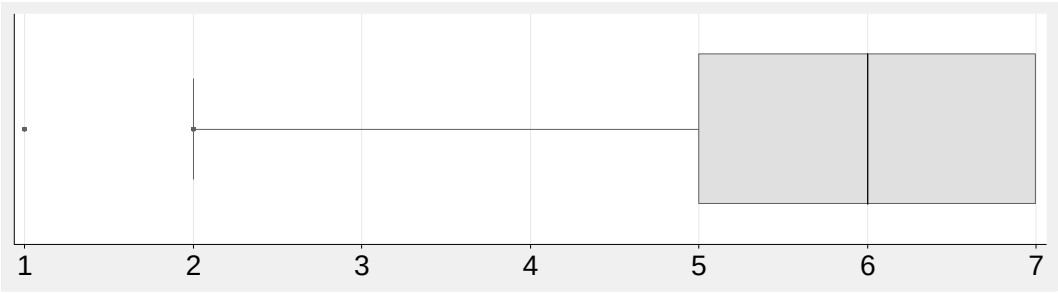


67. There is a great need for immediate policy decisions for immediate action to mitigate climate change.

strongly disagree 1 2 3 4 5 6 7 strongly agree

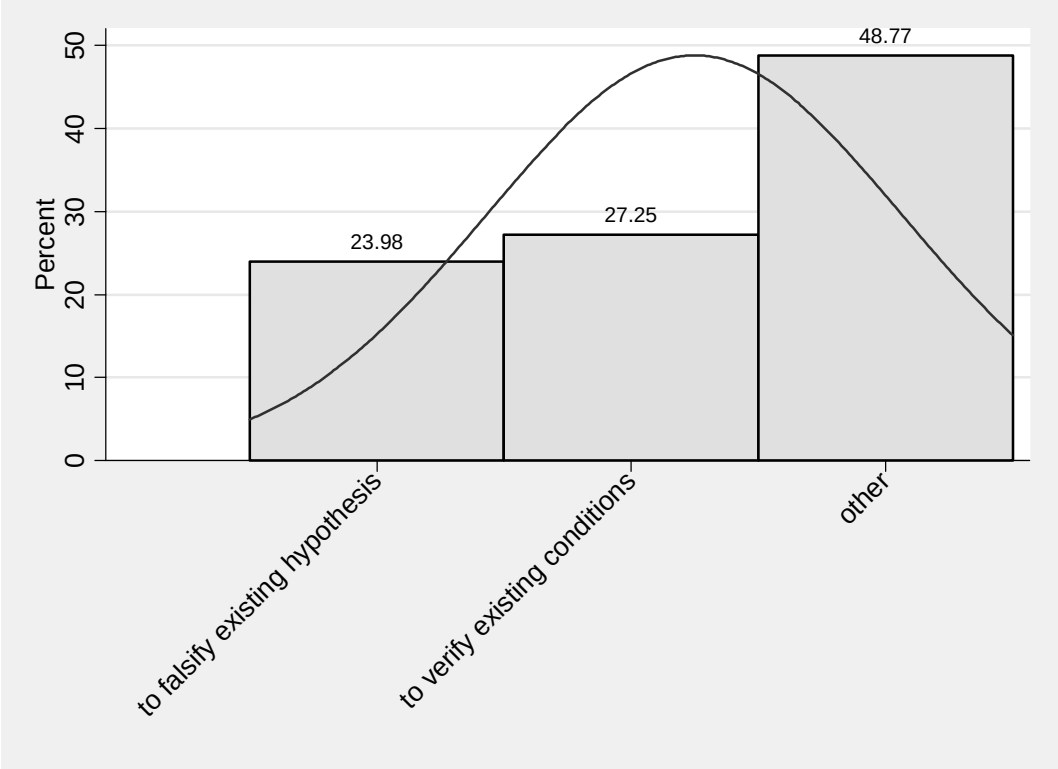
Variable	Obs	Mean	Std. Dev.	Min	Max
Q116	**370**	**5.505405**	**1.653189**	**1**	**7**





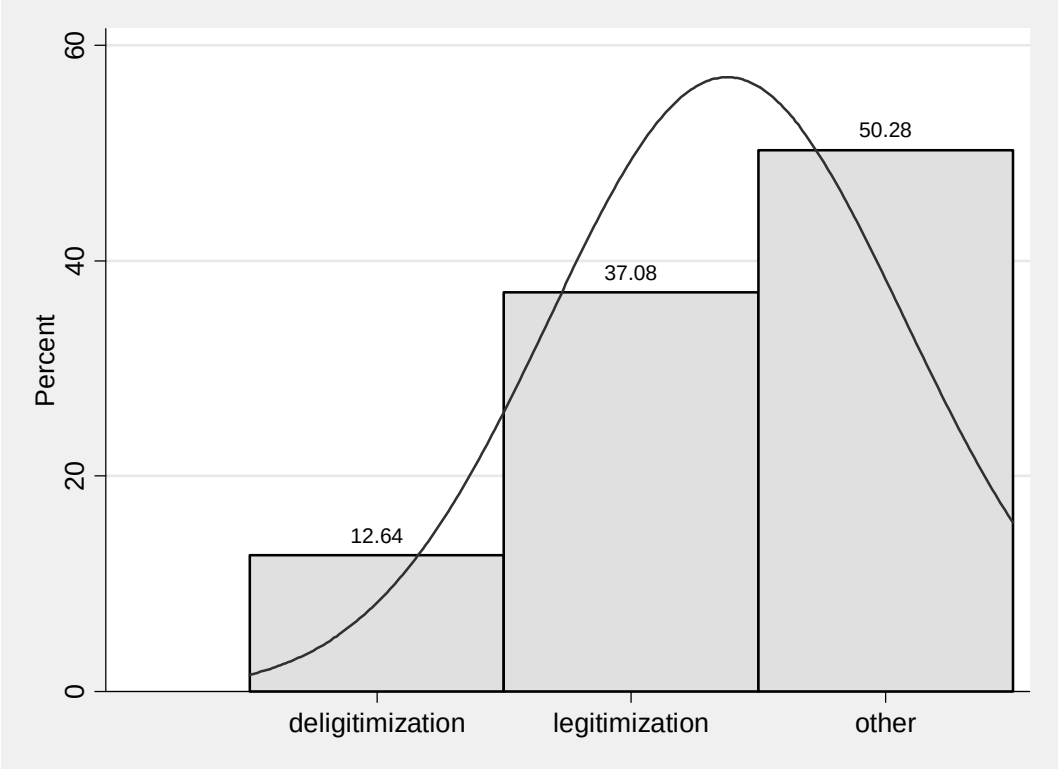
68. Concerning what science is in general, what would you say is its main activity?

- to falsify existing hypothesis
- to verify existing conditions
- other



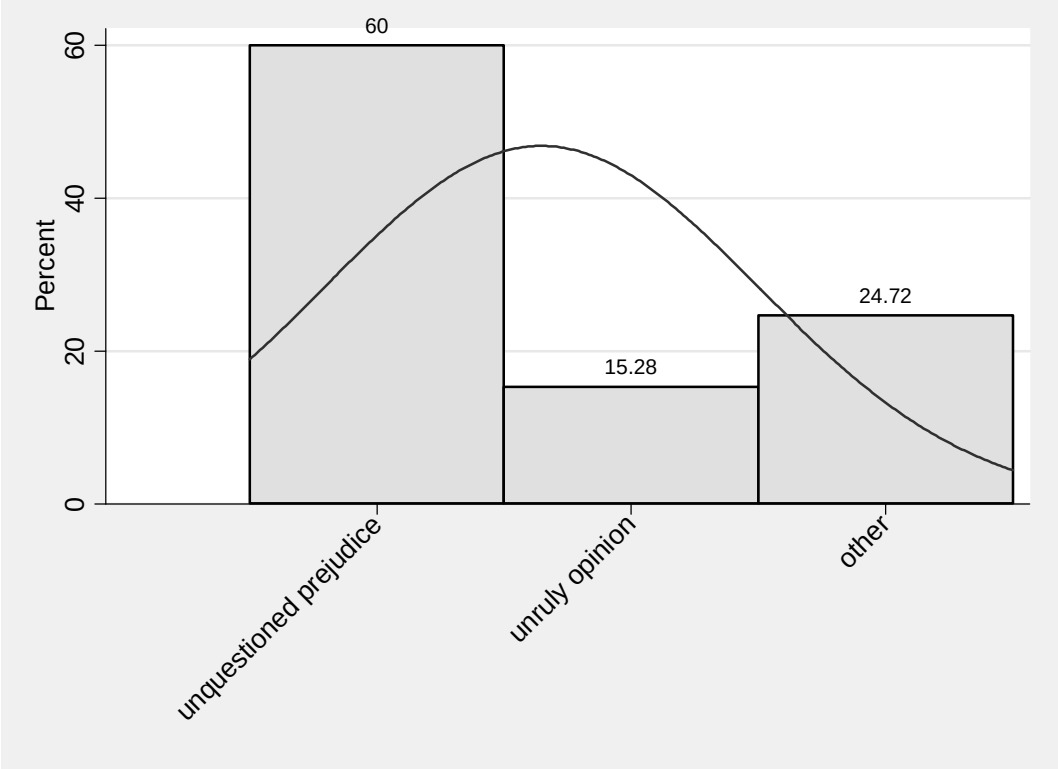
69. Concerning science in general, the role of science tends towards

- deligitimization of existing 'facts'
- legitimization of existing 'facts'
- other



70. The opposite of science is

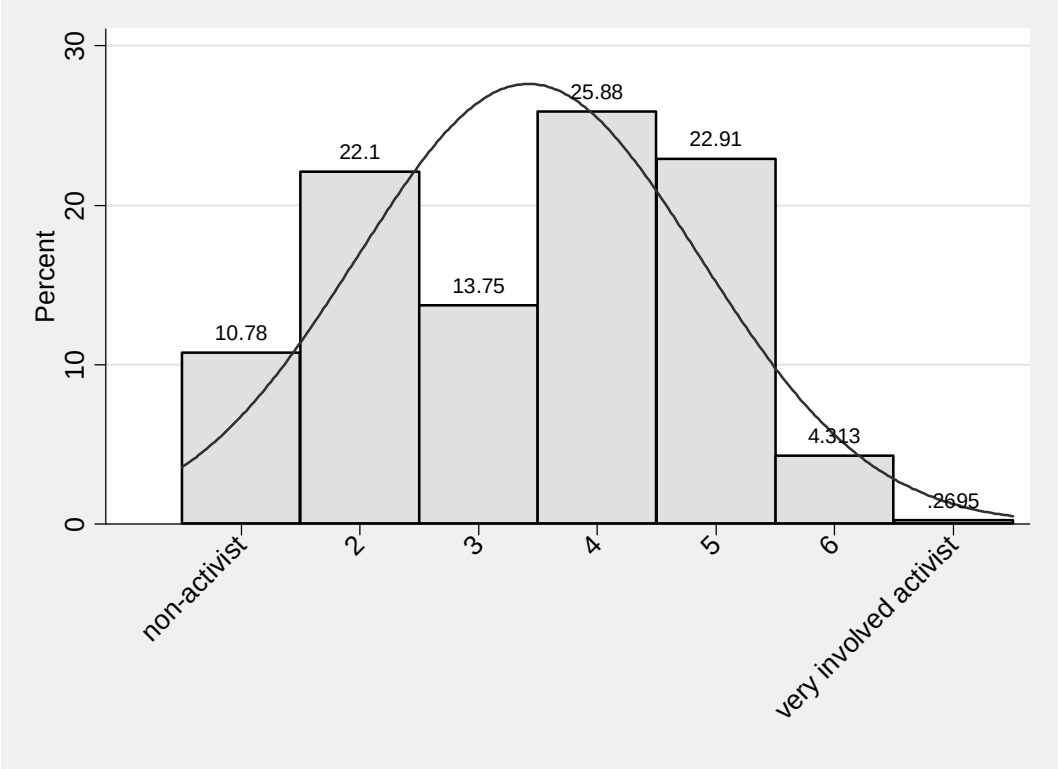
- unquestioned prejudice
- unruly opinion
- other

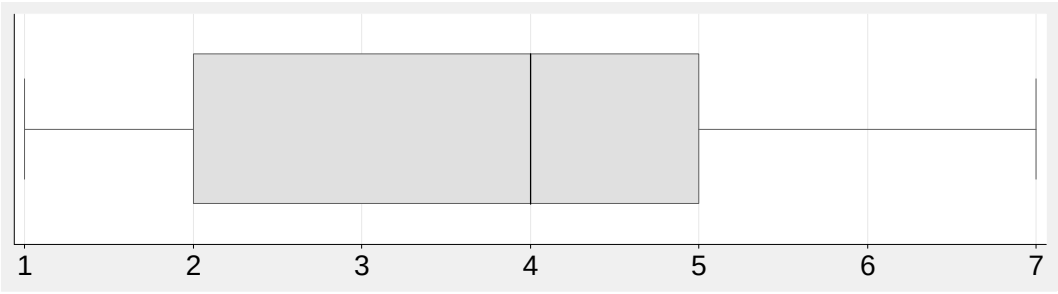


71. If you were to rate yourself in terms of being an environmental activist, where would you place yourself on the following scale?

non-activist 1 2 3 4 5 6 7 very involved activist

Variable	Obs	Mean	Std. Dev.	Min	Max
Q120	**371**	**3.420485**	**1.444846**	**1**	**7**

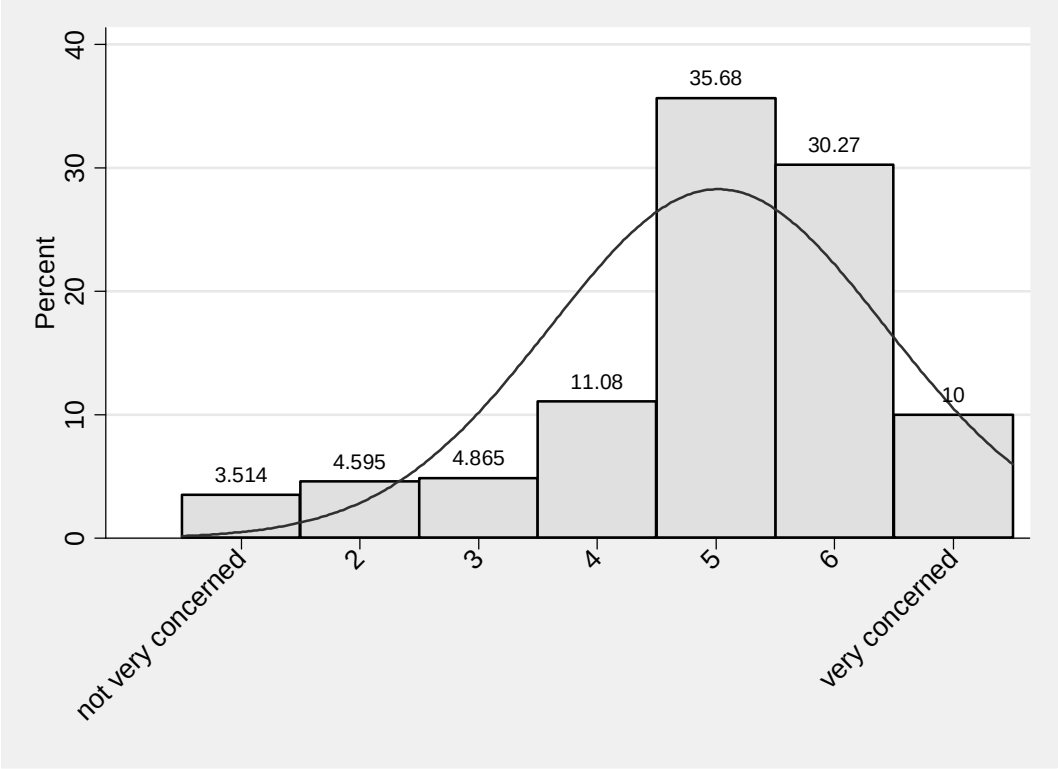


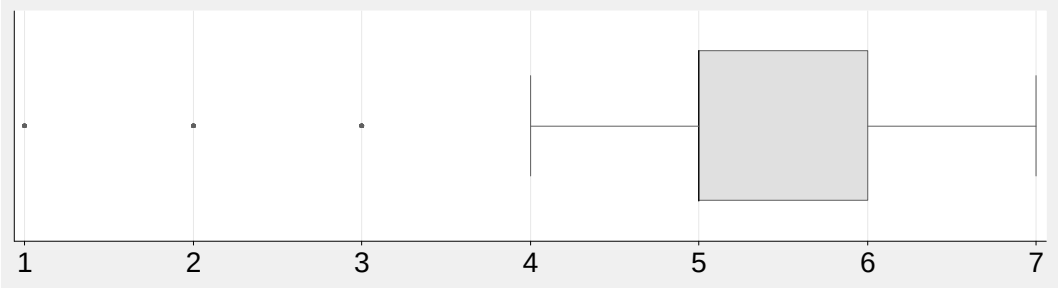


72. If you were to rate yourself in terms of being concerned about general environmental conditions, including climate change, *where you live*, where would you place yourself on the following scale?

not very concerned 1 2 3 4 5 6 7 very concerned

Variable	Obs	Mean	Std. Dev.	Min	Max
Q121	370	5.016216	1.410282	1	7

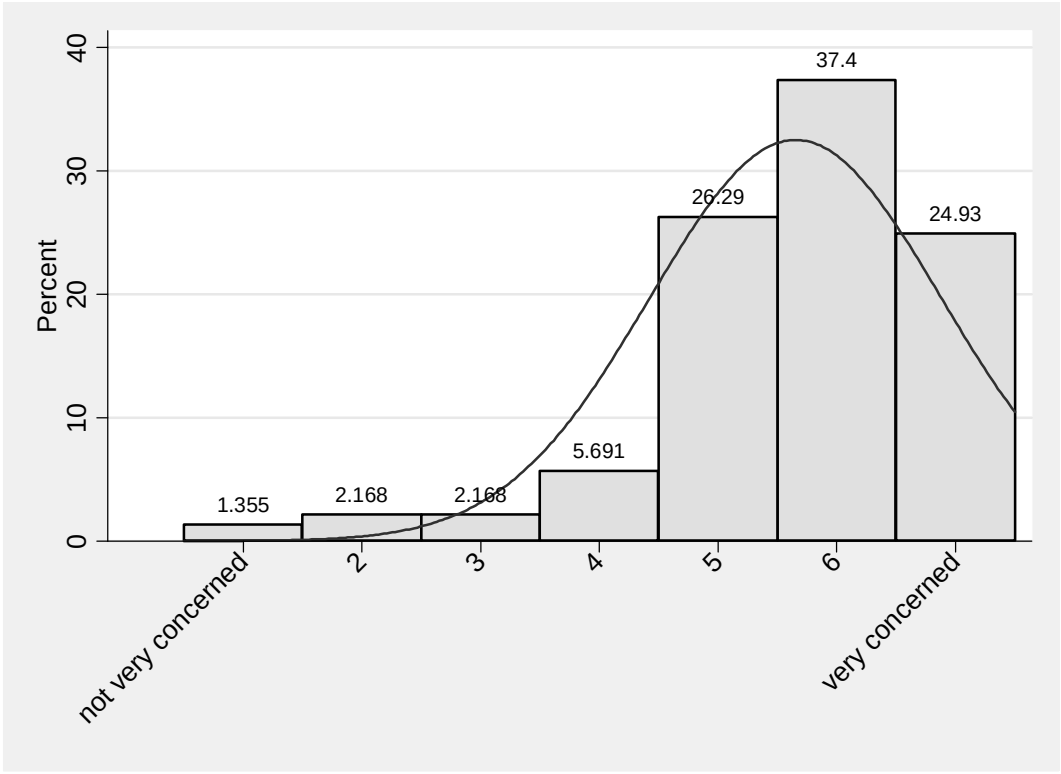


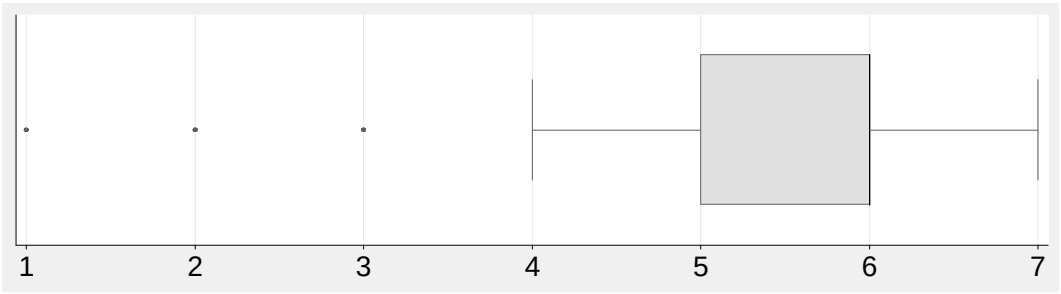


73. If you were to rate yourself in terms of being concerned about general *global* environmental conditions, including climate change, where would you place yourself on the following scale

not very concerned 1 2 3 4 5 6 7 very concerned

Variable	Obs	Mean	Std. Dev.	Min	Max
Q122	369	5.653117	1.226517	1	7





74. What people perceive to be the most pressing issue of the time is often shaped by current events. We would like to ask you what you think is the most pressing issue facing humanity today.

75. If you could ask the collective body of climate scientists one particular question, what would it be?

76. General comments concerning the survey of climate scientists

Responses to these questions are posted separately on web site.