



Supplement of

A physical concept in the press: the case of the jet stream

Xavier Fonseca et al.

Correspondence to: Xavier Fonseca (xfonbla@gmail.com)

The copyright of individual parts of the supplement might differ from the article licence.

Before today, how much have you heard or read about rising global temperatures?

- a) Nothing
- b) Little
- c) Quite a lot
- d) A lot

Answers	a	b	c	d
Percentages	1.14%	15.82%	56.77%	26.26%

How do you agree with the fact that there is an increase in global temperature?

- a) Nothing
- b) Little
- c) Quite a lot
- d) A lot
- e) Total

Answers	a	b	c	d	e
Percentages	3.43%	3.10%	15.17%	23.65%	54.32%

How do you agree that the global temperature rise is caused by human activity?

- a) Nothing
- b) Little
- c) Quite a lot
- d) A lot

Answers	a	b	c	d
Percentages	0.65%	3.26%	32.95%	63.13%

What degree of consensus do you think exists in the scientific community on the influence of human activity on the increase in global temperature?

- a) Nothing
- b) Little
- c) Quite a lot
- d) A lot
- e) Total

Answers	b	c	d	e	White
Percentages	13.87 %	39.31 %	36.22 %	9.95 %	0.65 %

How much knowledge do you think you have about the origin and effects of the current increase in global temperature described by the scientific community?

- a) Nobody
- b) Little
- c) Quite a lot
- d) A lot
- e) All

Answers	a	b	c	d	White
Percentages	1.79%	42.58%	38.17%	16.48%	0.98%

How important do you think the current rise in global temperature is described by the scientific community?

- a) None
- b) Little
- c) Quite a lot
- d) A lot
- e) Vital

Answers	b	c	d	e	White
Percentages	2.45 %	13.54 %	29.04 %	54.49 %	0.49 %

How concerned are you about rising global temperatures?

- a) Nothing
- b) Little
- c) Quite a lot
- d) A lot
- e) Total

Answers	a	b	c	d	e
Percentages	1.20 %	13.05 %	37.75 %	34.54 %	13.45 %

What position do you maintain in the face of news related to the increase in global temperature?

- a) I don't think there is an increase in temperature
- b) I am skeptical, I have doubts
- c) I'm not interested
- d) I think that the change is insufficient to talk about risk
- e) I am concerned

Answers	b	c	d	e	Other
Percentages	4.24%	3.26%	8.97%	83.52%	0.32

Which of these media do you mainly use to inform yourself about the increase in the global temperature of the Earth?

- a) Written and digital press
- b) Scientific journals
- c) Books
- d) Classes
- e) Scientific talks
- f) Specialized web pages
- g) Television
- h) Radio

Answers	a	b	c	d	f	g
Percentages	53.67 %	2.28%	3.59 %	4.73 %	9.62 %	26.10%

From which of the following people did you last obtain information about the increase in the Earth's temperature?

- a) A scientist
- b) A politician
- c) A teacher
- d) A friend
- e) A journalist
- f) A coworker

Answers	a	b	c	d	e	White
Percentages	16.97%	2.61%	27.24%	10.11%	41.92%	1.14%

¿ How would you define the information that comes to you about the increase in global temperature?

- a) Conservative
- b) Realistic
- c) Exaggerated
- d) Catastrophist

Answers	a	b	c	d
Percentages	21.86%	58.89%	7.50%	11.75%

How do you define yourself politically?

- a) Center
- b) Progressive (Left)
- c) Conservative (Right)
- d) Liberal

Answers	a	b	c	d	White
Percentages	19.09%	55.95%	5.38%	13.05%	6.53%

The rise in global average temperature is a major threat to

- a) The earth
- b) Living beings

Answers	a	b	Other
Percentages	40,13%	57,10%	2,77%

To what responds mainly according to you the changes that are taking place mainly and at the moment in the global temperature?

- a) Natural changes in the Earth's orbit around the Sun
- b) Human activity
- c) The cycles of the Sun
- d) A combination of the three previous options in equal parts.

Answers	b	d	Other
Percentages	77.49%	18.43%	4.08%

What terminology best defines the current increase in Earth's global temperature?

- a) Climate change
- b) Global Warming
- c) Natural change

Answers	a	b	Other
Percentages	30.18%	67.37%	2.44%

Which physical phenomenon do you think is most responsible for the current rise in global temperature?

- a) Variations in solar radiation reaching the Earth.
- b) The greenhouse effect
- c) The hole in the ozone layer
- d) Air pollution.
- e) Hole in the atmosphere

Answers	a	b	c	d	Other
Percentages	3.92%	58.08%	15.17%	18.60%	4.25%

Which of these gases is the main responsible for the current rise in global temperature?

- a) Carbon dioxide (CO₂)
- b) Ozone (O₃)
- c) Methane (CH₄)
- d) Nitrogen dioxide (NO₂)

Answers	a	b	c	d	White
Percentages	78.96%	4.73%	11.09%	2.45%	2.77%

Carbon dioxide (CO₂) is a gas that

- a) Directly heat the surface
- b) Directly cools the surface
- c) Blocks the heat emitted by the Earth to the space
- d) Reduces ozone concentration
- e) I do not have enough knowledge to answer

Answers	a	c	d	e	Other
Percentages	7.34%	55.79%	9.46%	24.96%	2.45%

Why does cutting down forests affect the Earth's climate?

- a) Because trees clean the air, reducing pollution
- b) Because forests shelter a multitude of other animals and are fundamental to the ecosystem
- c) Because forests regulate the water and carbon cycle

Answers	a	b	c	Other
Percentages	49.59%	8.48%	37.36%	4.57%

Why does burning oil (gasoline, diesel, natural gas, etc.) or coal as fuel for cars, heating or producing electricity affect the Earth's climate, heating it up?

- a) Because it is done on such a large scale that the heating of the air is too strong.
- b) Because the air is saturated with pollution.
- c) Because a lot of carbon dioxide that was stored underground is added to the atmosphere, intensifying the greenhouse effect.
- d) Because it affects the ozone layer, destroying it.

Answers	a	b	c	d	Other
Percentages	5.55%	12.40%	59.87%	19.41%	2.78%

The greenhouse effect

- a) It is a process that already existed before human beings
- b) Appears as a consequence of human activity

Respuestas	a	b	Other
Porcentajes	57.10%	41.44%	1.14%

With the increase in global temperature there is a warming of

- a) the atmosphere
- b) The surface
- c) The oceans
- d) The surface and the oceans
- e) The a, b and c are correct

Answers	a	c	d	e	Other
Percentages	5.55%	3.10%	11.58%	77.49%	2.28%

What is the average global temperature of the planet today?

- a) 30 degrees
- b) 25 degrees
- c) 15 degrees
- d) 10 degrees

Answers	a	b	c	d	Other
Percentages	3.92%	41.44%	50.24%	2.45%	1.95%

What do you think the global average temperature was during the last ice age?

- a) 10 degrees
- b) 0 degrees
- c) -10 degrees
- d) -100 degrees

Answers	a	b	c	d	White
Percentages	19.90%	15.82%	48.12%	13.87%	2.28%

What describes the state of the atmosphere at a specific time and place?

- a) Weather
- b) Climate

c) Both are correct

Answers	a	b	c	White
Percentages	36.38%	19.90%	42.25%	1.47%

The possibility that a winter could be colder and rainier than normal in a context of increasing global temperature is

- a) Not likely
- b) Unlikely
- c) Quite likely
- d) Very likely

Answers	a	b	c	d
Percentages	26.75%	47.47%	21.53%	4.24%

What phenomenon causes the current sea level rise?

- a) The thermal expansion of the oceans
- b) The thaw of Antarctica and Arctic
- e) Changes in ocean currents.

Ansíes	a	b	c
Percentages	3.43%	93.31%	3.26%

Before today, how much have you heard or read about ocean acidification?

- a) Nothing
- b) Little
- c) Quite a lot
- d) A lot

Ansíes	a	b	c	d	Other
Percentages	40.78%	45.03%	47,47%	11.42%	2.77%

Do you think that human beings will be able to solve the climate crisis?

a) Surely not

c) Surely yes

b) Probably not

d) Probably yes

Answers	a	b	c	d
Percentages	7.83%	59.71%	10.28%	22.19%