

Methodology

Poll number: pr2201

Interview Dates: February 11 - 23, 2022

Sample Population: 2054 Adults (18+) in coastal counties in the United States.

Sample Selection: Scientific online poll - stratified sample of panel respondents.

Weighting Parameters: The sample was weighted based on the U.S. Census Bureau's American Community Survey (ACS) for Adults (18+) in coastal counties in the United States based on age, gender, race, educational attainment, census region, coastal region and Hispanic ethnicity.

This topline provides weighted percentages, as well as the unweighted N-size for the total sample. Due to the effects of weighting and rounding, figures may or may not add up to 100%. The standard deviation of the weights was: 0.5825783. The maximum weight was: 3.9070219. The minimum weight was: 0.3157928. 95% of the weights were between 0.4213145, 2.6069422.

Margin of Error: The 95% credibility interval for this survey is +/- 2.5%, which includes the square root of the design effect (DEFT): 1.157252.

approveBiden...Do you approve or disapprove of the way Joe Biden is handling his job as President?

Response	Percent	N
Strongly approve	19%	432
Somewhat approve	30%	602
Somewhat disapprove	14%	278
Strongly disapprove	28%	582
Not sure	9%	160

CDR1x1...In general, how clean or polluting do you think each of the following sources of energy are? - Coal

Response	Percent	N
Very clean	4%	80
Somewhat clean	10%	209
Somewhat polluting	23%	493
Very polluting	54%	1,080
Not sure	10%	192

CDR1x2...In general, how clean or polluting do you think each of the following sources of energy are? - Wind energy

Response	Percent	N
Very clean	63%	1,291
Somewhat clean	24%	486
Somewhat polluting	4%	87
Very polluting	2%	35
Not sure	8%	155

CDR1x3...In general, how clean or polluting do you think each of the following sources of energy are? - Solar energy

Response	Percent	N
Very clean	69%	1,404
Somewhat clean	20%	445
Somewhat polluting	4%	74
Very polluting	1%	27
Not sure	5%	104

CDR1x4...In general, how clean or polluting do you think each of the following sources of energy are? - Natural gas

Response	Percent	N
Very clean	15%	337
Somewhat clean	33%	711
Somewhat polluting	30%	594
Very polluting	12%	214
Not sure	11%	198

CDR1x5...In general, how clean or polluting do you think each of the following sources of energy are? - Oil

Response	Percent	N
Very clean	4%	98
Somewhat clean	9%	205
Somewhat polluting	32%	683
Very polluting	46%	923
Not sure	8%	145

CDR1x6...In general, how clean or polluting do you think each of the following sources of energy are? - Diesel

Response	Percent	N
Very clean	4%	88
Somewhat clean	9%	205
Somewhat polluting	29%	618
Very polluting	48%	968
Not sure	9%	175

CDR1x7...In general, how clean or polluting do you think each of the following sources of energy are? - Hydro-power

Response	Percent	N
Very clean	41%	865
Somewhat clean	33%	669
Somewhat polluting	7%	128
Very polluting	2%	47
Not sure	17%	345

CDR1x8...In general, how clean or polluting do you think each of the following sources of energy are? - Geothermal energy

Response	Percent	N
Very clean	27%	580
Somewhat clean	30%	629
Somewhat polluting	10%	183
Very polluting	2%	48
Not sure	31%	614

CDR2...Do you think excess carbon dioxide in the atmosphere is a major problem, minor problem, or not a problem at all?

Response	Percent	N
Major problem	63%	1,257
Minor problem	21%	462
Not a problem at all	6%	130
Not sure	10%	205

CDR3...Do you think excess carbon dioxide in the atmosphere is a major contributor to climate change, or not?

Response	Percent	N
Yes	66%	1,344
No	15%	312
Not sure	19%	398

CDR4...How concerned are you about excess carbon dioxide in the atmosphere?

Response	Percent	N
Very concerned	39%	833
Somewhat concerned	36%	712
Not too concerned	13%	267
Not at all concerned	6%	134
Not sure	5%	108

CDR5...Do you support or oppose businesses and corporations reducing the amount of carbon dioxide they emit to the atmosphere?

Response	Percent	N
Strongly support	49%	1,017
Somewhat support	31%	636
Somewhat oppose	6%	126
Strongly oppose	3%	71
Not sure	11%	204

CDR6...To what extent do you agree or disagree with the following statement: To combat climate change, we will not only have to reduce carbon dioxide emissions, but also remove carbon dioxide already in the air.

Response	Percent	N
Strongly agree	33%	688
Somewhat agree	33%	672
Somewhat disagree	11%	225
Strongly disagree	6%	143
Not sure	16%	326

CDR7x1...To what degree do you think each of the following is a problem? If you're not sure, just say so. - Sea level rise

Response	Percent	N
Major problem	60%	1,214
Minor problem	23%	496
Not a problem at all	7%	150
Not sure	10%	194

CDR7x2...To what degree do you think each of the following is a problem? If you're not sure, just say so. - Pollution in the ocean, including plastic

Response	Percent	N
Major problem	81%	1,656
Minor problem	12%	271
Not a problem at all	2%	46
Not sure	4%	81

CDR7x3...To what degree do you think each of the following is a problem? If you're not sure, just say so. - Harm to ocean wildlife

Response	Percent	N
Major problem	74%	1,493
Minor problem	17%	379
Not a problem at all	3%	61
Not sure	6%	121

CDR7x4...To what degree do you think each of the following is a problem? If you're not sure, just say so. - Ocean waters becoming more acidic

Response	Percent	N
Major problem	65%	1,304
Minor problem	17%	377
Not a problem at all	4%	91
Not sure	14%	282

CDR7x5...To what degree do you think each of the following is a problem? If you're not sure, just say so. - Severe storms and hurricanes

Response	Percent	N
Major problem	65%	1,343
Minor problem	22%	455
Not a problem at all	5%	123
Not sure	7%	133

CDR7x6...To what degree do you think each of the following is a problem? If you're not sure, just say so. - Loss of coastal habitats

Response	Percent	N
Major problem	66%	1,326
Minor problem	21%	443
Not a problem at all	4%	96
Not sure	10%	189

CDR7x7...To what degree do you think each of the following is a problem? If you're not sure, just say so. - Warming waters

Response	Percent	N
Major problem	55%	1,103
Minor problem	25%	527
Not a problem at all	8%	191
Not sure	12%	233

CDR7x8...To what degree do you think each of the following is a problem? If you're not sure, just say so. - Excess carbon dioxide in the ocean

Response	Percent	N
Major problem	55%	1,119
Minor problem	20%	427
Not a problem at all	6%	138
Not sure	18%	370

CDR7x9...To what degree do you think each of the following is a problem? If you're not sure, just say so. - Harm to coastal communities

Response	Percent	N
Major problem	61%	1,239
Minor problem	24%	513
Not a problem at all	5%	116
Not sure	10%	186

CDR8x1...Here's the same list again. Do you think that climate change is having a large effect, some effect, just a little effect, or no real effect on the following? - Sea level rise

Response	Percent	N
A large effect	55%	1,096
Some effect	24%	498
Just a little effect	7%	157
No real effect	6%	135
Not sure	9%	168

CDR8x2...Here's the same list again. Do you think that climate change is having a large effect, some effect, just a little effect, or no real effect on the following? - Pollution in the ocean, including plastic

Response	Percent	N
A large effect	54%	1,086
Some effect	19%	404
Just a little effect	8%	168
No real effect	13%	275
Not sure	6%	121

CDR8x3...Here's the same list again. Do you think that climate change is having a large effect, some effect, just a little effect, or no real effect on the following? - Harm to ocean wildlife

Response	Percent	N
A large effect	58%	1,157
Some effect	25%	508
Just a little effect	7%	145
No real effect	5%	123
Not sure	6%	121

CDR8x4...Here's the same list again. Do you think that climate change is having a large effect, some effect, just a little effect, or no real effect on the following? - Ocean waters becoming more acidic

Response	Percent	N
A large effect	51%	1,019
Some effect	23%	497
Just a little effect	8%	162
No real effect	6%	129
Not sure	12%	247

CDR8x5...Here's the same list again. Do you think that climate change is having a large effect, some effect, just a little effect, or no real effect on the following? - Severe storms and hurricanes

Response	Percent	N
A large effect	55%	1,110
Some effect	24%	507
Just a little effect	8%	162
No real effect	6%	144
Not sure	7%	131

CDR8x6...Here's the same list again. Do you think that climate change is having a large effect, some effect, just a little effect, or no real effect on the following? - Loss of coastal habitats

Response	Percent	N
A large effect	51%	1,031
Some effect	27%	566
Just a little effect	9%	179
No real effect	6%	128
Not sure	8%	150

CDR8x7...Here's the same list again. Do you think that climate change is having a large effect, some effect, just a little effect, or no real effect on the following? - Warming waters

Response	Percent	N
A large effect	53%	1,055
Some effect	25%	512
Just a little effect	8%	176
No real effect	6%	140
Not sure	9%	171

CDR8x8...Here's the same list again. Do you think that climate change is having a large effect, some effect, just a little effect, or no real effect on the following? - Excess carbon dioxide in the ocean

Response	Percent	N
A large effect	49%	977
Some effect	24%	488
Just a little effect	7%	155
No real effect	7%	143
Not sure	14%	291

CDR8x9...Here's the same list again. Do you think that climate change is having a large effect, some effect, just a little effect, or no real effect on the following? - Harm to coastal communities

Response	Percent	N
A large effect	51%	1,033
Some effect	25%	545
Just a little effect	9%	185
No real effect	6%	129
Not sure	8%	162

CDR9A...Do you agree or disagree with this statement: New technologies can solve climate change without individuals having to make big changes. [RANDOM HALF SAMPLE]

Response	Percent	N
Strongly agree	19%	180
Somewhat agree	28%	291
Somewhat disagree	21%	223
Strongly disagree	21%	230
Not sure	11%	116

CDR9B...Do you agree or disagree with this statement: New technologies can solve climate change without corporations having to make big changes. [RANDOM HALF SAMPLE]

Response	Percent	N
Strongly agree	18%	182
Somewhat agree	30%	295
Somewhat disagree	19%	189
Strongly disagree	20%	217
Not sure	14%	131

CDR10...Thinking now about the world's oceans, would you rate their health as...

Response	Percent	N
Excellent	7%	139
Good	22%	475
Only fair	41%	866
Poor	24%	461
Not sure	6%	113

CDR11...To the best of your knowledge is the following statement true or false? The oceans help regulate the earth's climate/atmosphere and produce 70% of our oxygen.

Response	Percent	N
False	24%	482
True	76%	1,572

CDR12...How important is it to you personally, that we protect the quality and health of the world's oceans?

Response	Percent	N
Very important	68%	1,397
Somewhat important	25%	522
Not too important	4%	74
Not at all important	1%	16
Not sure	2%	45

CDR13A...How worried are you about the effects of climate change on the oceans? [RANDOM HALF SAMPLE]

Response	Percent	N
Very worried	48%	483
Somewhat worried	33%	337
Not too worried	11%	115
Not at all worried	4%	47
Not sure	4%	37

CDR13B...How worried are you about the effects of carbon dioxide emissions on the oceans? [RANDOM HALF SAMPLE]

Response	Percent	N
Very worried	40%	418
Somewhat worried	37%	379
Not too worried	13%	134
Not at all worried	3%	39
Not sure	7%	65

CDR14x1...Do you agree or disagree with the following statements: The oceans are so large and vast, it is unlikely that humans will cause serious harm to them.

Response	Percent	N
Strongly agree	12%	249
Somewhat agree	15%	311
Somewhat disagree	20%	411
Strongly disagree	48%	971
Not sure	6%	112

CDR14x2...Do you agree or disagree with the following statements: Oceans and beaches are very important to the future economy and quality of life in my area.

Response	Percent	N
Strongly agree	57%	1,181
Somewhat agree	31%	640
Somewhat disagree	6%	106
Strongly disagree	2%	44
Not sure	4%	83

CDR14x3...Do you agree or disagree with the following statements: Pollution in the oceans impacts the food we eat, the air we breathe, and the earth's climate.

Response	Percent	N
Strongly agree	61%	1,245
Somewhat agree	28%	581
Somewhat disagree	4%	83
Strongly disagree	2%	54
Not sure	5%	91

CDR15x1...As you may know, carbon removal is the process of removing excess carbon dioxide from the atmosphere and locking it away for decades or longer. There are multiple carbon removal approaches that are currently being proposed and evaluated. Would you support or oppose the use of the following carbon removal approaches, assuming there are no negative side effects? - Planting new forests and trees

Response	Percent	N
Strongly support	71%	1,472
Somewhat support	20%	415
Somewhat oppose	3%	58
Strongly oppose	1%	19
Not sure	5%	90

CDR15x2...As you may know, carbon removal is the process of removing excess carbon dioxide from the atmosphere and locking it away for decades or longer. There are multiple carbon removal approaches that are currently being proposed and evaluated. Would you support or oppose the use of the following carbon removal approaches, assuming there are no negative side effects? - Restoring and protecting coastal ecosystems

Response	Percent	N
Strongly support	62%	1,262
Somewhat support	27%	558
Somewhat oppose	3%	63
Strongly oppose	1%	24
Not sure	7%	147

CDR15x3...As you may know, carbon removal is the process of removing excess carbon dioxide from the atmosphere and locking it away for decades or longer. There are multiple carbon removal approaches that are currently being proposed and evaluated. Would you support or oppose the use of the following carbon removal approaches, assuming there are no negative side effects? - Farming seaweed to remove carbon dioxide from the atmosphere

Response	Percent	N
Strongly support	40%	812
Somewhat support	32%	673
Somewhat oppose	6%	117
Strongly oppose	3%	57
Not sure	19%	395

CDR15x4...As you may know, carbon removal is the process of removing excess carbon dioxide from the atmosphere and locking it away for decades or longer. There are multiple carbon removal approaches that are currently being proposed and evaluated. Would you support or oppose the use of the following carbon removal approaches, assuming there are no negative side effects? - Building large, industrial vacuum machines that remove carbon dioxide from the atmosphere and store it underground

Response	Percent	N
Strongly support	26%	510
Somewhat support	26%	544
Somewhat oppose	14%	272
Strongly oppose	10%	220
Not sure	25%	508

CDR15x5...As you may know, carbon removal is the process of removing excess carbon dioxide from the atmosphere and locking it away for decades or longer. There are multiple carbon removal approaches that are currently being proposed and evaluated. Would you support or oppose the use of the following carbon removal approaches, assuming there are no negative side effects? - Encouraging farmers and food producers to use sustainable agricultural practices

Response	Percent	N
Strongly support	60%	1,235
Somewhat support	27%	548
Somewhat oppose	4%	99
Strongly oppose	2%	32
Not sure	7%	140

CDR15x6...As you may know, carbon removal is the process of removing excess carbon dioxide from the atmosphere and locking it away for decades or longer. There are multiple carbon removal approaches that are currently being proposed and evaluated. Would you support or oppose the use of the following carbon removal approaches, assuming there are no negative side effects? - Adding minerals to the ocean that can help absorb carbon dioxide

Response	Percent	N
Strongly support	32%	645
Somewhat support	28%	582
Somewhat oppose	11%	216
Strongly oppose	7%	142
Not sure	23%	469

CDR16...As you may know, there are efforts to enhance the natural processes of the ocean to absorb carbon dioxide emissions and store it safely deep in the ocean. Which of the following terms do you think most accurately describes this process?

Response	Percent	N
Blue carbon	6%	130
Ocean carbon capture	16%	344
Ocean carbon removal	17%	329
Ocean carbon sequestration	14%	302
Ocean climate restoration	23%	457
Ocean-based carbon removal	23%	492

CDR17x1...Below are a few approaches to using the oceans to reduce carbon dioxide emissions in the atmosphere (currently being researched). Do you support or oppose expanding each of the following approaches? If you're not sure, just say so. - Biological approaches such as growing more ocean plants and expanding marine ecosystems like mangroves and seagrasses.

Response	Percent	N
Strongly support	49%	1,001
Somewhat support	31%	644
Somewhat oppose	5%	91
Strongly oppose	2%	41
Not sure	14%	277

CDR17x2...Below are a few approaches to using the oceans to reduce carbon dioxide emissions in the atmosphere (currently being researched). Do you support or oppose expanding each of the following approaches? If you're not sure, just say so. - Mineral-based approaches that add alkaline minerals to the ocean to permanently store atmospheric carbon dioxide and de-acidify the ocean.

Response	Percent	N
Strongly support	25%	500
Somewhat support	31%	633
Somewhat oppose	10%	221
Strongly oppose	6%	131
Not sure	28%	569

CDR17x3...Below are a few approaches to using the oceans to reduce carbon dioxide emissions in the atmosphere (currently being researched). Do you support or oppose expanding each of the following approaches? If you're not sure, just say so. - Electro-chemistry approaches, where a machine placed on land or on a ship, separates carbon dioxide from seawater using electricity and returns the alkaline water back into the ocean.

Response	Percent	N
Strongly support	23%	464
Somewhat support	34%	688
Somewhat oppose	9%	189
Strongly oppose	6%	120
Not sure	29%	593

CDR18x1...Do you support or oppose expanding each of the following off the coast of your state? - Developing offshore wind farms to increase renewable energy

Response	Percent	N
Strongly support	46%	947
Somewhat support	31%	635
Somewhat oppose	7%	154
Strongly oppose	4%	83
Not sure	12%	235

CDR18x2...Do you support or oppose expanding each of the following off the coast of your state? - Expanding offshore drilling for oil and natural gas

Response	Percent	N
Strongly support	20%	411
Somewhat support	22%	468
Somewhat oppose	18%	367
Strongly oppose	24%	495
Not sure	16%	313

CDR18x3...Do you support or oppose expanding each of the following off the coast of your state? - Protecting and restoring coastal ecosystems

Response	Percent	N
Strongly support	59%	1,248
Somewhat support	27%	537
Somewhat oppose	4%	76
Strongly oppose	2%	34
Not sure	8%	159

CDR18x4...Do you support or oppose expanding each of the following off the coast of your state? - Enhancing the ocean's natural ability to remove carbon dioxide

Response	Percent	N
Strongly support	51%	1,042
Somewhat support	32%	640
Somewhat oppose	4%	95
Strongly oppose	2%	44
Not sure	11%	233

CDR19...Do you support or oppose providing tax breaks to companies that develop ways to remove carbon dioxide from the ocean?

Response	Percent	N
Strongly support	32%	685
Somewhat support	40%	832
Somewhat oppose	9%	165
Strongly oppose	6%	111
Not sure	14%	261

CDR20x1...If coastal communities in your state were to expand ocean carbon removal, do you think it would have a positive or negative impact on each of the following, or would it not have an impact either way? - Ocean water quality off the coast of your county

Response	Percent	N
Very positive impact	42%	885
Somewhat positive impact	33%	672
Somewhat negative impact	3%	57
Very negative impact	2%	27
No impact either way	9%	180
Not sure	12%	233

CDR20x2...If coastal communities in your state were to expand ocean carbon removal, do you think it would have a positive or negative impact on each of the following, or would it not have an impact either way? - Tourism off the coast of your county

Response	Percent	N
Very positive impact	29%	611
Somewhat positive impact	29%	604
Somewhat negative impact	6%	115
Very negative impact	2%	46
No impact either way	19%	406
Not sure	14%	272

CDR20x3...If coastal communities in your state were to expand ocean carbon removal, do you think it would have a positive or negative impact on each of the following, or would it not have an impact either way? - Marine and coastal wildlife

Response	Percent	N
Very positive impact	46%	943
Somewhat positive impact	30%	635
Somewhat negative impact	2%	53
Very negative impact	2%	32
No impact either way	9%	171
Not sure	11%	220

CDR20x4...If coastal communities in your state were to expand ocean carbon removal, do you think it would have a positive or negative impact on each of the following, or would it not have an impact either way? - Good paying jobs in your community

Response	Percent	N
Very positive impact	36%	755
Somewhat positive impact	32%	650
Somewhat negative impact	2%	44
Very negative impact	2%	30
No impact either way	17%	341
Not sure	12%	234

CDR20x5...If coastal communities in your state were to expand ocean carbon removal, do you think it would have a positive or negative impact on each of the following, or would it not have an impact either way? - Ocean-based recreation in your community

Response	Percent	N
Very positive impact	34%	702
Somewhat positive impact	33%	658
Somewhat negative impact	4%	75
Very negative impact	2%	36
No impact either way	14%	308
Not sure	13%	275

CDR20x6...If coastal communities in your state were to expand ocean carbon removal, do you think it would have a positive or negative impact on each of the following, or would it not have an impact either way? - Protection of Indigenous lands

Response	Percent	N
Very positive impact	37%	770
Somewhat positive impact	27%	565
Somewhat negative impact	3%	57
Very negative impact	2%	34
No impact either way	15%	312
Not sure	16%	316

CDR21...Please indicate how likely you would be to vote for a candidate for political office who supports expanding ocean carbon removal research and testing in your local area or community. If you don't care about this issue or don't know enough, just say so.

Response	Percent	N
I would ONLY vote for a candidate who supports this policy	16%	329
I would be more likely to vote for a candidate who supports this policy	54%	1,120
I would be less likely to vote for a candidate who supports this policy	6%	119
I would NEVER vote for a candidate who supports this policy	2%	53
I don't really care about this issue / Don't know / Not sure	22%	433

CDR22...If a company supports ocean carbon removal to reduce its carbon footprint, would you have a more or less favorable opinion of that company?

Response	Percent	N
Much more favorable	33%	676
Somewhat more favorable	42%	867
Somewhat less favorable	6%	128
Much less favorable	3%	63
No impact either way	16%	320

CDR23...How important is the issue of climate change to your vote?

Response	Percent	N
Very important	42%	867
Somewhat important	35%	712
Not too important	14%	289
Not at all important	9%	186

CDR24...Do you support or oppose increasing investments for ocean-based carbon removal research?

Response	Percent	N
Strongly support	38%	778
Somewhat support	38%	786
Somewhat oppose	7%	131
Strongly oppose	3%	69
Not sure	14%	290

DEM1...Do you consider yourself an environmentalist?

Response	Percent	N
No	55%	1,153
Yes	45%	901

DEM2...How worried are you about climate change?

Response	Percent	N
Very worried	44%	911
Somewhat worried	33%	670
Not too worried	13%	257
Not at all worried	7%	167
Not sure	3%	49

Sample Statistics (Weighted Frequencies)

Var1	Freq
Gender-Female	51.5%
Gender-Male	48.5%
Race-Black	12.3%
Race-Other	35.3%
Race-White	52.5%
Education-Advanced	12.7%
Education-Bachelors	20.7%
Education-LessThanBachelors	66.6%
party-ID: Democrat	39.7%
party-ID: Independent	30.2%
party-ID: Republican	23.2%
party-ID: Something else	7%
Hispanic-No	76%
Hispanic-Yes	24%
Age18-24	11.5%
Age25-34	18.7%
Age35-44	16.5%
Age45-64	33.1%
Age65+	20.2%
Coastline_Region Atlantic	47.5%
Coastline_Region Gulf of Mexico	16.5%
Coastline_Region Pacific	36%