

US Media Coverage of the Cancún Climate Change Conference

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ABSTRACT Much was at stake at the 2010 United Nations climate change conference in Cancún, Mexico. The United Nations Framework Convention on Climate Change was being challenged by the world's two largest greenhouse gas emitters, China and the United States, after these countries reached a tenuous backroom deal one year earlier in Copenhagen. Meanwhile, scientific studies were warning of serious and severe climate change. This article analyzes newspaper articles and television segments from the US media that appeared during the timeframe of the Cancún conference, focusing on two key facets of coverage that continue to be important as negotiations proceed: the economic impacts and opportunities that climate change creates and the role that China plays in negotiations. I also examine which sources were allowed through the news gates and which ones were marginalized. I find that the US media discussed economic opportunities more frequently than economic impacts and that the media treated China in an even-handed way. Established political actors dominated coverage, followed by representatives of nongovernmental organizations and the business community. Meanwhile, grassroots activists and indigenous voices were marginalized.

In his Nobel Prize Lecture, Al Gore (2007) implored his audience to take swift action to contend with “a planetary emergency—a threat to the survival of our civilization that is gathering ominous and destructive potential.” President Barack Obama (2010), after suffering what he described as a “shellacking” in the November 2010 midterm elections, held a press conference where he asserted priorities related to climate change: “promoting a clean energy economy” and “making the investments in technology that will allow us to keep our competitive edge in the global economy.” Later that month the United Nations (UN) kicked off an important climate change conference in Cancún, Mexico—the 16th Conference of the Parties, or COP 16—where Obama’s themes would be taken up full-force in a multilateral setting.¹

Much was at stake in Cancún. As Cristine Russell (2010) pointed out in the *Columbia Journalism Review*, the conference was “likely to be a turning point” because “[m]any climate experts, as well as journalists, question whether the cumbersome UN Framework Convention on Climate Change [UNFCCC] will even survive after this in its current form.” The UNFCCC framework was challenged at the 2009 Copenhagen climate change meetings where a last-minute backroom deal was hammered out between

the United States, China, India, Brazil, and South Africa. Eventually, 140 parties signed the nonbinding Copenhagen Accord rooted in voluntary emissions reduction commitments as determined by individual parties. These mitigation efforts often hinged on the passage of national legislation, which in the case of the United States, increasingly appears unlikely in the near term.²

The Copenhagen Accord marked a potential pivot point for global climate governance. Environmental law professor David Hunter (2010, 12) wrote, “Both the substance of the Accord’s pledge-and-review approach and the process by which it was negotiated arguably undermine the importance of the United Nations, particularly the UNFCCC Secretariat, in future climate governance.” Fast-forwarding to Cancún, a number of vital issues faced policymakers, scientists, business leaders, nongovernmental organizations (NGOs), and activists: observers wondered whether negotiations in Mexico would solidify the backroom deliberation trends established in Copenhagen or whether the UN would boldly reassert itself and its relatively transparent, consensus-based process. Some observers believed the international community would push back for a legally binding agreement like the Kyoto Protocol—thereby reviving the UN process—while others suggested a voluntary program rooted in bilateral agreements and self-assigned reductions targets was more likely. Meanwhile, political considerations threatened to outweigh the findings of peer-review science. The global media’s challenge was to address these complex,

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overlapping issues in a clear, comprehensible manner that captured the urgency of the situation. As Manuel Castells (2005, 14) pointed out in *PS*, “The public sphere in our time is largely dependent on the communication media system.” He noted, “a shift from a public sphere anchored around the institutions of society to a public sphere constituted around the media system.”

How media frame climate change inflects public understanding and public engagement of this important issue. Journalists place frames around real-world events, thereby zeroing our attention on particular issues, ideas, and individuals while eliding that which lies outside the frame. Framing makes particular solutions appear more plausible than others (Entman 2004). Communications scholar Matthew Nisbet (2009, 16–17) notes, “Framing a policy problem or issue endows certain dimensions” of climate change “with greater apparent relevance than they would have under an alternative frame.” He adds, “To make sense of policy debates, audiences use frames provided by the media as interpretive shortcuts but integrate these media presentations with preexisting interpretations forged through personal experience, partisanship, ideology, social identity, or conversations with others.”³

Recent research on the US media system and its coverage of climate change has been consistently critical. Freudenburg and

who assure the public that socio-political issues will be addressed in short order (Boykoff and Boykoff 2007, 1192–93). The tendency to turn to authority figures—or, “official sources”—for their political opinions is a deeply ingrained facet of news coverage as is the related tendency toward indexing; media coverage is bracketed—or indexed—according to the range of views and policies found within the corridors of institutional power. In other words, the discursive bandwidth correlates with the amount of disagreement among policymaking elites (Iyengar and McGrady 2007), which is related to the “first-order” norms of dramatization and personalization. Mass-media scholars usually apply indexing to foreign policy issues (e.g., Hayes and Guardino 2010; Mermin 1999). It is also relevant, however, to “intermestic” issues like climate change, the quintessential transnational environmental issue with implications that are interwoven into both domestic and international affairs (Barilleaux 1985). Understanding journalistic norms helps us analyze and forecast the quantity and quality of media coverage of the Cancún Climate Change Conference.

In a recent study by the Reuters Institute for the Study of Journalism at the University of Oxford, James Painter (2010) analyzed newspaper coverage of the Copenhagen conference that appeared in 12 countries. The study was critical of the media for underplay-

Furthermore, the cliché “if it’s not new it’s not news” maintains relevance in contemporary journalism.

Muselli (2010) found that US media tend to portray the Intergovernmental Panel on Climate Change (IPCC) findings as exaggerated whereas its consensus-based assessments should actually be viewed as conservatively understating climate disruption.⁴ Other scholars have pointed to evidence of “balance as bias” (Antilla 2005; Boykoff and Boykoff 2004) whereby the press uses the journalistic norm of balance—telling “both” sides of the story. When it comes to anthropogenic global warming, employing balance is a form of bias in favor of those who either deny global warming or humankind’s hand in it. Researchers have found specific media outlets like Fox News to promote climate-change skepticism through the balance-as-bias mechanism although it is out of tune with mainstream scientific consensus (McKnight 2010). In a series of papers McCright and Dunlap (2000, 2003, 2010) have demonstrated how US conservatives have acted strategically to muddy the discursive waters in regards to climate change thereby undermining climate-science consensus and stultifying climate-change policy. Despite the pervasive influence of conservatives on climate-change policy, the mainstream US press has improved its coverage of climate change, essentially ameliorating the balance-as-bias issue by 2006 (Boykoff 2007; Nisbet 2011).

Nevertheless, US media are still reliant on journalistic norms that help determine what becomes news as well as how the content of that news is shaped. Baseline, generative “first order” norms, such as personalization, dramatization, and novelty, mean that when conflict exists between well-known political personalities, media coverage is almost sure to ensue. Furthermore, the cliché “if it’s not new it’s not news” maintains relevance in contemporary journalism. These concatenating norms not only trigger the “second order” norm of balance, but also the authority-order norm, whereby journalists turn to authority figures as sources

ing scientific aspects of climate change, finding only 9% of the sample dedicated 50% or more of its content to elucidating the science while 80% of the sample discussed science in less than 10% of its space (Painter 2010, 54). The author (2010, 3–4) concluded: “Most journalists reported extensively on the drama and minutiae of the negotiations. But in the balance between capturing the drama of Copenhagen and explaining the essential background to the science, understandably—but perhaps regrettably—the science was under-reported.”⁵

However, the point of the Copenhagen climate change conference—and the COP 16 in Cancún that followed—was to hammer out a political deal that would lead to global climate change policies, not to rehearse the science underlying climate change. Therefore, it is not surprising that journalists focused on geopolitical machinations or the “minutiae of the negotiations.”⁶ More importantly, the science of climate change did not divide the negotiators in Copenhagen and Cancún as much as economics and politics continued to cleave deep divisions. Therefore, in this article I examine how the US media covered vital issues that not only affected on-the-ground negotiations, but issues that continue to be critical and contentious as talks press forward: the economics of climate change and the role of China. I also focus on the role of indexing by analyzing the sources journalists turn to in their stories and segments.

DATA

The UNFCCC capped its issuance of journalist accreditations at 2,000 in Cancún, whereas more than 3,200 accredited journalists were on hand in Copenhagen to cover the proceedings.⁷ These journalists produced a trove of output, and a targeted slice of this media yield comprises the empirical data in this study.

Table 1

Media Coverage of Cancún Climate Change Conference by Source

SOURCE	ARTICLES/SEGMENTS	%
<i>New York Times</i>	62	35.2
<i>USA Today</i>	15	8.5
<i>Wall Street Journal</i>	23	13.1
<i>Washington Post</i>	43	24.4
ABC	4	2.3
CBS	2	1.1
Fox News	18	10.2
MSNBC and NBC	9	5.1
TOTAL	176	100

Media outlets under consideration include four major US newspapers—the *New York Times*, *USA Today*, the *Wall Street Journal*, and the *Washington Post*—and five television networks—ABC, CBS, Fox News, MSNBC, and NBC. Because of geographical circulation, national stature, and influence on public officials, the general population, smaller news outlets, and each other, these media entities constitute a powerful and significant segment of the US mass-media system.⁸ Although most media analyses focus on newspapers, I expanded this study to include television because, according to a recent Pew study (Purcell et al. 2010, 3), people in the United States rely more on television for political news than on any other medium including the Internet: 78% watch local news and 73% derive news from national networks or cable television.⁹ Using the *Lexis-Nexis* and *ProQuest* databases and the search terms “global warming” or “climate change” resulted in 176 newspaper articles, editorials, op-eds, and television segments during the Cancún conference and 507 during Copenhagen.¹⁰ The timeframe stretched from one week before the commencement of each conference through a one-week post-meeting period.¹¹ Table 1 summarizes the data for Cancún according to source.

US media coverage of the 2009 climate change conference in Copenhagen was copious. We might expect similar levels of coverage during the Cancún conference, especially because big changes were afoot, including the possible demise of the Kyoto Protocol. Also, as the conference commenced, a preliminary analysis from the World Meteorological Organization was released that found the year 2010 to rank among the three warmest years—along with 1998 and 2005—since instrumental climate records started in 1850. Toward the end of the conference, NASA announced 2010 to be the hottest year on record. Weather, such as Russia’s scorching summer and Pakistan’s monsoon-induced floods, was causing

concern around the globe in 2010. Climate change was also being mentioned laterally in WikiLeaks revelations, which, according to the Pew Research Center’s Project for Excellence in Journalism, was one of the top five news stories during both weeks of the Cancún conference.¹² Additionally, the meeting promised a dramatic face-off between China and the United States, the world’s top two greenhouse gas emitters, as well as the novel possibility of the World Bank assuming an invigorated role in mitigating climate change and assisting with adaptation measures. Combined, these factors would logically produce a high quantity of news coverage of the conference. Some people believed the meetings would be more aspirational than inspirational because few world leaders committed to attending the events, and political analysts forecasted few concrete advances. However, the Cancún climate change conference did not garner the attention of the US media, especially when compared to the quantity of coverage of Copenhagen. As figure 1 indicates, Cancún consistently received approximately one third the coverage of Copenhagen; 176 news packets containing the term “global warming” or “climate change” appeared in the sources under consideration during Cancún while 507 packets appeared in the same sources during Copenhagen.

While US newsrooms have been cutting their environmental and science staff, with CNN slicing its entire science, technology, and environment reporting team in 2008, the UK’s *Guardian* has concertedly bolstered its environmental staff, boosting its number of environmental correspondents to eight (Painter 2010, 22). Such decisions regarding the allocation of journalistic manpower affect the quantity of climate-change coverage. During the Copenhagen conference, the *Guardian* published 251 articles mentioning global warming or climate change while all the US news outlets in this study combined produced 176 pieces (figure 2).

Beyond the quantity of coverage, placement matters, too. When journalists select real-world events and convert them into political news they engage in what Maxwell McCombs and Donald Shaw (1972) call “the agenda-setting function” whereby media coverage augments public salience of particular issues. Although the media do not necessarily tell news consumers what to think, they do encourage readers and viewers what to think about. One cue newspaper editors use is article placement, with front-page stories implicitly carrying more weight and demanding more attention than back-page accounts. During the month of coverage bracketing the Cancún conference, the newspapers under study

Figure 1

Quantity of Coverage—Copenhagen and Cancún

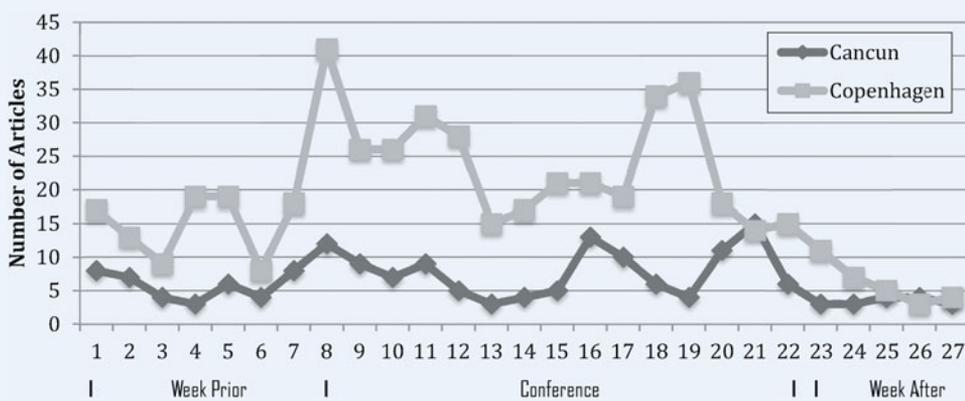
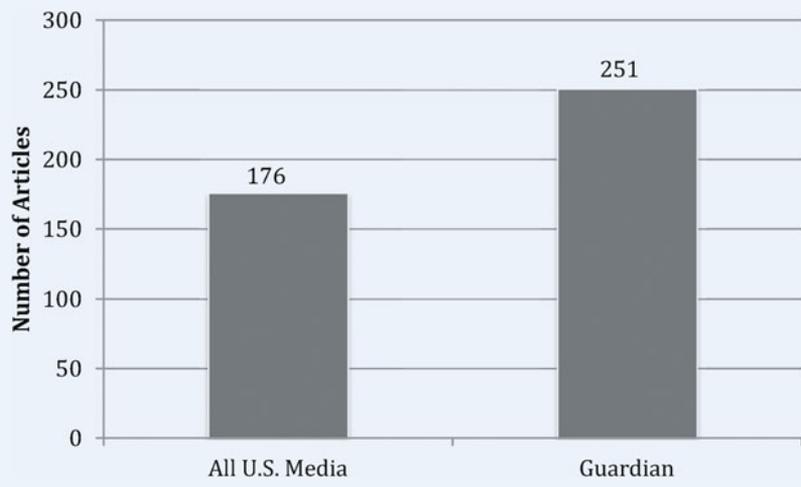


Figure 2

Quantity of Coverage—All U.S. Media Compared to the Guardian (UK)



published eight front-page articles related to climate change, with six appearing in the *New York Times* and two in the *Washington Post*.¹³ Of these, one article (Eilperin and Booth 2010a) focused directly on the negotiations in Cancún.

With agenda setting, it is also crucial to consider the content of coverage. In particular I focused on two facets of coverage that are important as negotiations proceed: the economic impacts and opportunities that climate change creates and the role that China plays in negotiations and green-technology development. The key issues that dominated the discussions in Cancún—greenhouse gas mitigation, adaptation strategies, verification of emissions reductions, the Reducing Emissions from Deforestation and Forest Degradation program (REDD), and green technology sharing—all relate to the economics of climate change and the role of China. In examining these two areas, I narrowed the dataset to articles in which climate change was addressed in a head-on, substantive manner. I did this by excluding articles in which climate change or global warming was mentioned only once, rendering the topic peripheral to the thrust of the story. This process eliminated 78 articles, leaving 98 articles to analyze.¹⁴

ECONOMICS

Since the “Stern Review on the Economics of Climate Change” was released in the UK in October 2006, economists, environmentalists, and political actors have paid more heed to the potential impacts of climate change on the global economy. The reframing of climate change as an economic issue has emerged as a narrative journalists can use to convert the long-term incrementalism of global warming into a more urgent issue that affects almost everyone. Economics perennially tops the list of concerns in “most important problem” public opinion polls in the United States.¹⁵ This relates to what environmental studies professor Roger Pielke, Jr. (2010, 46) calls “an iron law of climate policy,” whereby economic growth trumps climate-change mitigation efforts. This “iron law” implicitly presents a challenge to journalists: how to portray—and perhaps challenge—the tacit dichotomy that supports it.

US media coverage of the economic opportunities that climate change presented was relatively common, especially leading up to

the Cancún conference, appearing in 11% of the newspaper articles and television segments.¹⁶ For example, as part of a discussion on energy and the environment covered by the *Wall Street Journal* (Ball 2010), Alan Mulally, the chief executive officer of Ford Motor Company, used green terminology to discuss economic opportunity: “We really focused on the fundamental enabling technology that would have the most synergy for economic development, energy independence and security, and also environmental sustainability.” Other panelists voiced the desire for consistent federal legislation signaling a price on carbon so industry could attempt to jumpstart the economy with greener technology. Not all the articles that adopted the economic opportunities frame focused on the positive possibilities. In a front-page article, the *Washington Post* interviewed people who had received training for green jobs only not to find work; the article sent the message that the economic opportunities created to confront climate change were unsuccessful, at least in the

short term (Fletcher 2010). In general, however, when this frame was adopted, journalists pointed to positive economic opportunities that had emerged in the face of climate change, even if these opportunities had yet to be capitalized upon.

Economists have warned with increasing urgency that climate change could damage not only the environment but also the global economy. Former World Bank chief economist Nicholas Stern recommended spending 1% of global GDP each year to help stave off the effects of climate change. Without such measures, he argued, we can eventually expect significant damage to the global GDP, in the range of 5% to 20% loss. In light of this, environmental economists Graciela Chichilnisky and Kristen Sheeran (2009, 41) argued, “By all measures, insuring the future against catastrophic climate change is a prudent investment. The logic is so compelling there are only two possible reasons to deny it. Either we don’t believe in the science, or we discount the well-being of future generations.” However, the US media have not grabbed the discursive baton from Stern and environmental economists to discuss the detrimental economic impacts of climate change. Only three of the 98 news packets (3.1%) addressed the negative impacts climate change will have on the global economy, all of them appearing in the *New York Times*. One was an op-ed piece written by a Minnesota farmer who—highlighting personalization and dramatization—discussed how climate change was threatening his family’s and neighbors’ economic viability (Hedin 2010); a second article, which appeared on page A32 and drew on the authority-order norm, was a profile of an “atmospheric perils specialist” for Swiss Reinsurance America Corporation (Finn 2010); the third example was an op-ed by the former chairwoman of President Obama’s Council of Economic Advisers, Christina Romer (2010). In fact, it was just as common for the media—in particular the *Wall Street Journal*—to discuss the negative economic impacts that could potentially accrue from taking actions to combat climate change.¹⁷ The dearth of the economic impacts frame derives, in part, from the fact that journalists only turned to two economists as sources—Robert Stavins of Harvard University and David W. Kreutzer of the Heritage Foundation—in all 98

news packets.¹⁸ Sourcing is discussed in more detail later in this article.

CHINA

With the emergence of China as a key economic player on the global terrain, questions regarding environmental degradation have ascended astride the country's gross domestic product. China is keen to keep the "common but differentiated responsibilities" tenet of the Kyoto Protocol as a facet of any deal going forward. This has been an enduring point of disagreement with the United States because China is now the world's biggest greenhouse gas emitter (although on a per capita basis the United States is number one). Although China has received ample US media attention for its pollution problems, it has also been actively developing and implementing green technology. Lucia Green-Weiskel (2011, 23) of the Beijing-based Innovation Center for Energy and Transportation recently pointed out, "China is reorienting its economy toward sustainability and renewable energy in a way that is nothing short of revolutionary. It has invested billions in renewable energy, energy efficiency, public transportation . . . and developing standards for products, buildings, vehicles and fuels." She also noted that in July 2010, China's lead climate negotiator, Xie Zhenhua, declared that China's 2011–2015 five-year plan would include a cap-and-trade system. China has quickly become the world's biggest producer of photovoltaic panels. Its 2006 five-year plan set out an ambitious schedule for clean energy, including the goal of making 15% of its energy consumption renewable (Carey et al. 2010). In November 2010, Ernst & Young (2010) placed China atop

Shellenberger (2010) called Chinese investments in green technology "epic" while also noting the country's "cavalier attitude toward intellectual property."

On the question of whether China was flexible or obstinate during the Cancún negotiations, it was a near even split, with 26% of the articles featuring China portrayed it as contributing to a stalemate while 32% depicted its actions as adaptable and sometimes accommodating. The media zeroed in on the geopolitical maneuvering of China and the United States—what the *Washington Post* colorfully called "the smackdown in the center ring" (Booth and Eilperin 2010)—and did not engage in China-bashing. For example, in an article appearing on page A12, (Eilperin and Booth 2010b) the *Post* described Chinese negotiators as open to external verification of emissions reductions, indicating "it would subject its voluntary carbon cuts to detailed international scrutiny," which was a key "sticking point" for the United States. The *New York Times* (Broder 2010), in a story on page A15, echoed China's flexibility on the verification issue, which "was a major factor in the torpedoing of last year's climate negotiations in Copenhagen." In Cancún, however, China "significantly softened its position," which "greatly improved the mood" of negotiators trying to work out a deal.

SOURCING

Journalists make dozens of microdecisions in each article or television segment. One key consideration is who they will turn to as sources to bolster and animate their descriptions and explanations.²⁰ US media coverage of climate-change issues during the

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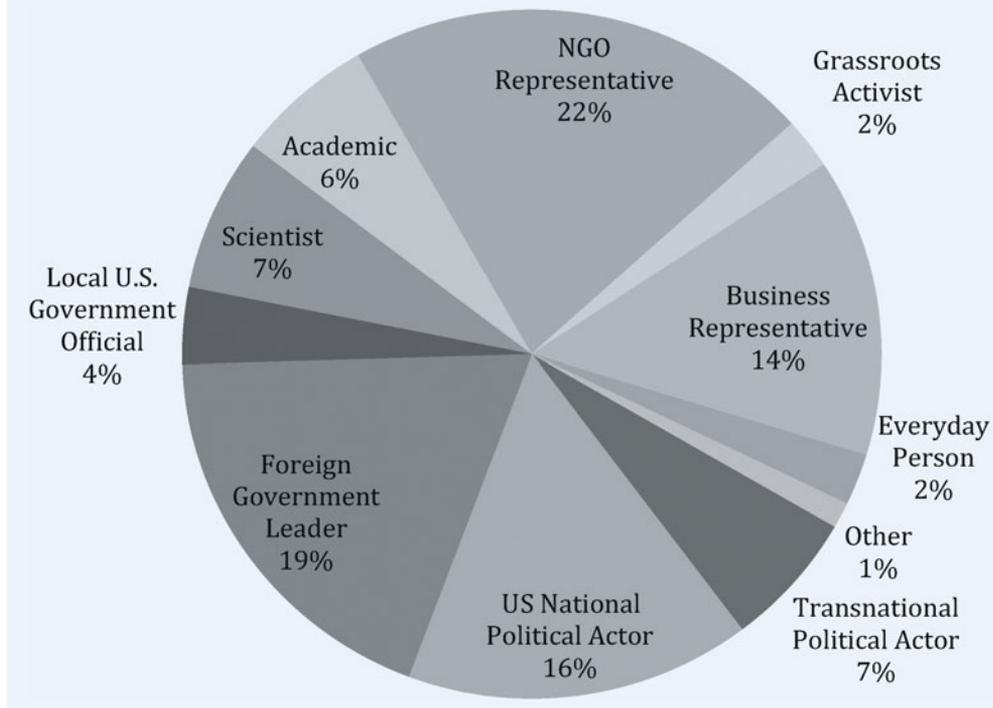
its "Renewable Energy Country Attractiveness Indices," beating out the United States.

In Cancún, China's delegation opted for a constructive approach to brokering a deal rather than obstructing forward movement. This strategy presented the US media with an opportunity to weigh China's dual roles as top-tier greenhouse gas emitter and green innovator. Such coverage was important politically: if China were portrayed monolithically as obstructionist rather than constructively moving forward, it would give the US government discursive space to refrain from acting. Overall, nearly two in five articles (39%) discussed China and its position vis-à-vis climate change. Most of these articles correctly pointed out that China—along with the United States—is the top emitter of greenhouse gases. But rather than only focusing on China's enormous coal consumption and greenhouse gas emissions, 24% of the articles that featured China discussed investments the Chinese government and domestic entrepreneurs are making in green technology, with the *Wall Street Journal* and *New York Times* taking the lead on that angle (e.g. Ball 2010, Bradsher 2010b).¹⁹ For example, a front-page article in the *New York Times* titled "Beijing Turbine: China Sets Rules and Wins Wind Power Game" describes how Chinese green-energy firms "have flourished and now control almost half of the \$45 billion global market for wind turbines" (Bradsher 2010a). In an op-ed for the *Wall Street Journal*, Ted Nordhaus and Michael

Cancún conference conformed to the indexing hypothesis whereby the spectrum of debate and discussion among political elites governed the spectrum of debate within the news media. Of the 250 sources in the 98 substantive stories on climate change, 45% of them were transnational political actors (e.g., UNFCCC officials like executive secretary Christiana Figueres), US national political actors (e.g., Todd Stern, the US climate envoy), foreign government leaders (e.g., India's environment minister, Jairam Ramesh), or local US government officials (e.g., the director of public works in Norfolk, Virginia).²¹ (See figure 3 for a specific breakdown.) Representatives of NGOs were the most frequently cited supplier of information and commentary, comprising almost 22% of all sources. Fortified by lobbyists and public-relations personnel, environmental organizations like the Natural Resources Defense Council and Environmental Defense Fund have successfully worked their way into the US mass-media's discourse on climate change. With federal climate-change legislation doubtful for the near future, probing questions regarding the effectiveness of NGOs have been raised by a number of scholars (e.g., Nisbet 2011). Industry groups like the American Petroleum Institute have also emerged as frequent newsmakers; business representatives made up 14% of all sources. Meanwhile, economists comprised 1.6% of all sources, with Robert Stavins, the director of Harvard University's environmental economics program, and

Figure 3

Sources in US Media Coverage



Daniel Hallin’s (1984, 14) finding that “dissenters appeared in stories primarily about dissent itself while official spokespeople appeared in stories which reported the actual news.”²² Such subtle marginalization prevents dissident citizens from injecting alternative viewpoints into the discursive arena. If we are to believe E. E. Schattschneider (1960, 68, emphasis in original), that “the definition of the alternatives is the supreme instrument of power,” then grassroots activists did not wield much discursive power on the US mediascape.

MOVING FORWARD

Although media coverage of the Cancún climate change conference was relatively scarce and limited in terms of who was afforded entry to speak, there were some bright spots. In discussing the science of global warming there was no evidence

of “balance as bias” in coverage, except on Fox News where the year-old “climategate” scandal was used to cast doubt on the integrity of climate science. With the exception of MSNBC and Fox News, skeptics who denied the existence of global warming or humanity’s role in it were boxed out of the media discussion in favor of scientists within the consensus and policy makers working in Cancún.²³ The media often offered clear, reliable analysis of what was happening in Cancún; for example, drawing from a range of sources and viewpoints, Juliet Eilperin and William Booth provided consistently informative coverage of the conference proceedings and what they meant for the future of global governance.

Nevertheless, there is significant room for improvement. In closing I offer three suggestions for environmental journalists as they continue to cover this vital issue. First, as a way of injecting urgency and gravity, journalists could concertedly demonstrate how climate change is an economic story. While global warming often ranks near the bottom of issues in US public opinion polls, the economy almost always ranks near the top. By reframing climate change as an issue with serious economic implications and impacts, journalists can make the incremental issue of climate change relevant, if in indirect fashion. The *Wall Street Journal* (Ball and Sweet 2010) got it right when it wrote, “The two-week United Nations climate conference in the resort city of Cancún underscored that future global efforts to address climate change will likely depend more on economic incentives than on environmental mandates.” Journalists should more persistently seek out environmental economists who are carrying out climate-change-related research; this would help widen the discursive bandwidth. Second, another possibility is to reframe climate change as a national security issue. The US Department of Defense (2010, xv) has demonstrated concern over climate change, stating in its February 2010 *Quadrennial Defense Review Report*, “Climate change

David W. Kreutzer, an energy economist at the Heritage Foundation, each appearing twice. Grassroots activists comprised only 2.4% of all sources, precisely the same percentage as everyday people off the street who were asked for their views. Activists in Cancún were not only ready to offer their informed criticisms and their preferred alternatives, but they also carried out an array of actions aimed at satisfying the media’s novelty norm, from an underwater performance designed to raise awareness to a crowd of activists digging their heads into the Cancún sand as a symbolic action. *La Via Campesina*, a network of peasant organizations, organized a high-profile caravan across Mexico that culminated in Cancún. The Indigenous Environmental Network staged workshops and protests. Despite a strong presence at the conference, indigenous activists were only mentioned twice in hard-news articles, both times in the *Washington Post* (Eilperin and Booth 2010b, 2010c). *Indian Country Today*, a weekly, national newspaper that focuses on indigenous issues across the Americas, ran an editorial (2010) on the urgency of addressing climate change, but indigenous voices were sidelined in the mainstream media.

Jonathan Mermin (1999, 146–47), author of a book on indexing and US foreign policy, suggests one way for journalists to brighten the spectrum of debate is to include the ideas and viewpoints of informed, engaged citizens. Nevertheless, only one news article mentioned grassroots activism within the flow of conference machinations, an article by the *Washington Post*’s Juliet Eilperin and William Booth (2010b, A12), who briefly described activist groups marching in Cancún to protest proposed forest policies before drawing a comparison to Copenhagen: “Activists are much fewer in number and have done nothing to disrupt the proceedings.” Otherwise, when grassroots activists were quoted—or simply mentioned—it conformed to media scholar

and energy are two key issues that will play a significant role in shaping the future security environment.” The Pentagon noted it is actively “developing policies and plans to manage the effects of climate change on its operating environment, missions and facilities.” The National Intelligence Council has issued a series of reports on the dangers of climate change and what it would mean for geopolitics, as have other think tanks like the Army Environmental Policy Institute, the Center for Strategic and International Studies, and the Center for a New American Security.²⁴ In this study only one article adopted this frame in a substantive manner: Thom Shanker’s (2010) *New York Times* article “Why We Might Fight, 2011 Edition.” Military officials and their counterparts in think tanks were otherwise underutilized as sources in climate-change news. Material on the national security issues related to climate change could be woven into news alongside new scientific studies and on-the-ground political analysis.

Finally, many reporters have realized that climate change challenges the compartmentalization of media topics. *Guardian* environmental reporter John Vidal (2009) acknowledged this, writing climate change “crosses so many traditional journalistic boundaries, it has become a specialist area that suits generalists. Equally, there is no specialist political, business or feature writer who does not now regularly report on the environment. To paraphrase Al Gore, we are all environment journalists now.” Journalists ought to take Vidal’s shibboleth seriously. With creativity and lateral thinking, climate change and its socio-political weightiness could be worked into an array of hard and soft news stories. To facilitate this, media outlets should require its editors and journalists writing in a range of fields to undergo additional training on the basics of climate change. Part of this training could also involve a rethinking of the sources tapped for commentary on climate-change issues. This would allow journalists to widen their go-to source lists in ways that inject renewed breadth and depth into their coverage.

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NOTES

- For more details, see the official website for the United Nations Framework Convention on Climate Change’s conference in Cancún: <http://unfccc.int/2860.php>.
- To read the Copenhagen Accord and related documents, see: <http://unfccc.int/home/items/5262.php>.
- Partisanship is a key factor when it comes to public opinion and climate change, with Riley Dunlap and Aaron McCright (2008, 27) asserting, “Nowhere is the partisan gap on environmental issues more apparent than on climate change.”
- A number of scholars (e.g., Freudenburg and Muselli 2010) and activists are moving away from the term “climate change,” opting instead for “climate disruption” because they feel it more aptly captures the grave anthropogenic aspects of the phenomenon. Obama’s Science Advisor John Holdren has stated a preference for the term “global climate disruption” (Scheiner 2010) although in a leaked memo, conservative consultant Frank Luntz (2002) advised use of the term “climate change” because that term appeared less threatening.
- The 12 countries were Australia, Brazil, China, Egypt, India, Italy, Mexico, Nigeria, Russia, the United Kingdom, United States, and Vietnam. Painter limited his analysis to six days of the two-week summit.
- In fact, the media’s focus on politics could be seen as a positive development because once plausible interpretation is that the media correctly view the science around global warming as settled: the globe is warming and humans are playing a significant role in it.
- See: <http://unfccc.int/media/items/5741.php>; Painter 2010, 27.
- According to the Audit Bureau of Circulations, the *Wall Street Journal* was the most-circulated newspaper during this time period, followed by *USA Today* and the *New York Times*. The *Washington Post* ranked sixth, although its Sunday newspaper is the third most circulated and its geographical location in Washington, DC, increases its importance.
- Although focusing on newspapers and television does not take into consideration online media traffic, Nielsen recently noted in a comment on the 2010 *State of the Media* report by the Pew Project for Excellence in Journalism that the web manifestations of many traditional newspaper and television outlets rank high on the list of top news websites. For example, MSNBC was #2, NYTimes.com #5, Fox News #7, ABC News #8, Washingtonpost.com #9 and USATODAY.com #10. See: <http://stateofthedia.org/2010/online-summary-essay/nielsen-analysis/>
- These search terms are consistent with previous studies (e.g., Boykoff and Boykoff 2007, 1194; Painter 2010, 38). While these databases compile media text, they do not offer visual images that accompany the newspaper articles and that comprise the television segments. This shortcoming precludes image analysis as well as tone analysis for television programming.
- Because the Cancún summit was one day shorter than the meetings in Copenhagen, I added one more postconference day of coverage so each conference had a 27-day period of analysis.
- For the Pew Research Center Project for Excellence in Journalism’s week-by-week tally of the biggest stories in the US media, see: http://www.journalism.org/news_index.
- Three of these front-page stories focused on China (Rosenthal 2010a; Glanz and Markoff 2010; Bradsher 2010a); two were postconference wrap-ups that folded in ongoing domestic considerations in the US (Eilperin and Booth 2010a; Broder and Stolberg 2010); one was about the shortcomings of green-jobs programs (Fletcher 2010); one on flooding in Virginia (Kaufman 2010); and one covered efforts in Sweden to reduce fossil-fuel consumption (Rosenthal 2010b).
- Of the 98 relevant articles 37% appeared in the *New York Times*, 7% in *USA Today*, 17% in the *Wall Street Journal*, 28% in the *Washington Post*, 1% on ABC, 1% on CBS, 5% on Fox, and 4% on MSNBC. In total, newspapers offered 89% of the news packets that met the operationalization of substantive, whereas television contributed 11%.
- See Gallup (2010) Most Important Problem. Princeton, NJ, Gallup. <http://www.gallup.com/poll/1675/Most-Important-Problem.aspx>; Pew Research Center for the People & the Press (2009). *Public’s Priorities for 2010: Economy, Jobs, Terrorism*. Washington, DC, Pew Research Center for the People & the Press. <http://people-press.org/report/584/policy-priorities-2010>.
- Coding for “economic opportunities” and “economic impacts” was a two-step process. First, I identified articles addressing the topic of economics. Then, I coded articles that discussed ongoing or future economic possibilities vis-à-vis climate change (e.g., job creation, GDP growth) as “economic opportunities.” When articles explored the negative impacts climate change is having or could have on the economy (e.g., hits to the insurance sector, creation of economic uncertainty), I coded them “economic impacts.”
- See, for example, Matt Ridley. 2010. “Africa Needs Growth, Not Pity and Big Plans.” *Wall Street Journal*, November 26.
- In an op-ed for the *Guardian* international relations professor Kevin Gallagher and economist Frank Ackerman (2010) asserted that while the battle over the legitimacy of climate science is passé, at least in most countries of the world, “What the debate has moved on to, though, is concern about the costs of climate policies.” The present empirical analysis does not find a great deal of support for this assertion in the US media.
- Coding for the China-related themes was also a two-step process. First, I identified articles addressing China’s role in climate change. Then, I coded articles as to whether they portrayed China as a large greenhouse gas producer or whether they also discussed the country’s green technology development. If the former, I coded it “GHG producer” and if latter, I coded it “green technology.” In some instances, journalists explored both frames in a single news packet—China as major greenhouse gas emitter and green technology producer—and I therefore coded the article as including both frames. When news packets discussed the role of China in the ongoing negotiations in Cancún, I coded articles that described China as slowing down or undermining negotiations as “obstructionist” and articles that portrayed Chinese negotiators as flexible or open-minded as “adaptable.”
- Recently the editor-in-chief at the *Guardian*, Alan Rusbridger, told *National Public Radio* (Folkenflik 2011), “No judgments are free of ideologies, so who you choose to quote and how you structure stories are highly political judgments.”
- I only tallied each source once for each article, even if s/he was quoted multiple times.
- For example, see a brief article that appeared in the *New York Times* on the creative activism of 350.org and celebrity musician Thom Yorke of Radiohead: Rachel Lee Harris. 2010. “Thom Yorke’s Designs for Climate Change.” *New York Times*, November 29, C3.

23. For an example of “climategate” scandal coverage, see “Fox News Watch,” *Fox News Network*, November 27, 2010. MSNBC also afforded discursive space to global warming skeptics, offering stock footage of Sarah Palin questioning anthropogenic climate change “because the world’s weather patterns are cyclical” and interviewing Levi Johnston who argued humans are not responsible for global warming. “The Last Word,” *MSNBC*, November 24, 2010.
24. See, for example, the website for the National Intelligence Council: http://www.dni.gov/nic/special_climate2030.html, and this report available from the Center for a New American Security: <http://www.cnas.org/node/4374>.

REFERENCES

- Antilla, Liisa. 2005. “Climate of Scepticism: US Newspaper Coverage of the Science of Climate Change.” *Global Environmental Change* 15: 338–52.
- Ball, Jeffrey. 2010. “Energy and the Environment: More Certainty, More Innovation.” *Wall Street Journal*, November 22, R4.
- Ball, Jeffrey, and Cassandra Sweet. 2010. “U.N. Climate Talks End—Rich Nations Agree to Help Poorer Ones but Put Off Figuring Out Who Will Pay.” *Wall Street Journal*, December 13, A15.
- Barilleaux, Ryan J. 1985. “The President, ‘Intermeric’ Issues, and the Risks of Policy Leadership.” *Presidential Studies Quarterly* 15 (4): 754–67.
- Booth, William, and Juliet Eilperin. 2010. “At Climate Summit, the Real Action Is Behind the Scenes.” *Washington Post*, December 9, A16.
- Boykoff, Maxwell T. 2007. “Flogging a Dead Norm? Newspaper Coverage of Anthropogenic Climate Change in the United States and United Kingdom from 2003 to 2006.” *Area* 39 (2): 470–81.
- Boykoff, Maxwell T., and Jules M. Boykoff. 2004. “Balance as Bias: Global Warming and the U.S. Prestige Press.” *Global Environmental Change* 15 (2): 125–36.
- Boykoff, Maxwell T., and Jules M. Boykoff. 2007. “Climate Change and Journalistic Norms: A Case Study of U.S. Mass-Media Coverage.” *Geoforum* 38 (6): 1190–1204.
- Bradsher, Keith. 2010a. “Beijing Turbine: China Sets Rules and Wins Wind Power Game.” *New York Times*, December 15, A1.
- Bradsher, Keith. 2010b. “Chinese Tycoon Focuses on Green Construction.” *New York Times*, December 8, A3.
- Broder, John M. 2010. “U.S. and China Narrow Differences at Climate Conference.” *New York Times*, December 8, A15.
- Broder, John M., and Sheryl Gaye Stolberg. 2010. “E.P.A. Delays Tougher Rules On Emissions.” *New York Times*, December 10, A1.
- Carey, Tim, Alan Chu, Wayne Hedden, and Christopher Sulavik. 2010. “The US-China Cleantech Connection: Shaping a New Commercial Diplomacy.” *PricewaterhouseCoopers*. September: 1–12.
- Castells, Manuel. 2005. “Governance and Global Politics.” *PS: Political Science and Politics* 38 (1): 9–16.
- Chichilnisky, Graciela, and Kristen Sheeran. 2009. *Saving Kyoto: An Insider’s Guide to How It Works, Why It Matters and What It Means for the Future*. London: New Holland Publishers.
- Dunlap, Riley E., and Aaron M. McCright. 2008. “A Widening Gap: Republican and Democratic Views on Climate Change.” *Environment* 50 (5): 26–35.
- Eilperin, Juliet, and William Booth. 2010a. “Some Aren’t Waiting for Climate Consensus.” *Washington Post*, December 10, A1.
- Eilperin, Juliet, and William Booth. 2010b. “Climate Summit in Cancun Intent on Progress.” *Washington Post*, December 7, A12.
- Eilperin, Juliet, and William Booth. 2010c. “193 Nations Sign Climate-Change Package.” *Washington Post*, December 12, A4.
- Entman, Robert W. 2004. *Projections of Power: Framing News, Public Opinion, and U.S. Foreign Policy*. Chicago: University of Chicago Press.
- Ernst & Young. 2010. “Renewable Energy Country Attractiveness Indices.” Issue #27 (November): 1–31.
- Finn, Robin. 2010. “Weather’s Perils, Fiscally Considered.” *New York Times*, December 2, A32.
- Fletcher, Michael A. 2010. “Retrained for Greens Jobs, But Still Waiting for Work.” *Washington Post*, November 23, A1.
- Folkenflik, David. 2011. “In London, a Case Study in Opinionated Press.” *National Public Radio*, January 4, <http://www.npr.org/2011/01/04/132629428/in-london-a-case-study-in-opinionated-press>.
- Freudenburg, William R., and Violetta Muselli. 2010. “Global Warming Estimates, Media Expectations, and the Asymmetry of Scientific Challenge.” *Global Environmental Change* 20 (3): 483–91.
- Gallagher, Kevin, and Frank Ackerman. 2010. “Cancún and the New Economics of Climate Change.” *Guardian*, November 30, <http://www.guardian.co.uk/commentisfree/cifamerica/2010/nov/30/global-climate-talks-climate-change>.
- Glanz, James, and John Markoff. 2010. “Vast Hacking by a China Fearful of the Web.” *New York Times*, December 5, A1.
- Gore, Al. 2007. “Nobel Lecture.” Oslo, December 10. http://nobelprize.org/nobel_prizes/peace/laureates/2007/gore-lecture_en.html.
- Green-Weiskel, Lucia. 2011. “Climate Clash in Cancún.” *The Nation*, January 3, 20–23.
- Hallin, Daniel. 1984. “The Media, the War in Vietnam, and Political Support: A Critique of the Thesis of an Oppositional Media.” *Journal of Politics* 46 (1): 2–24.
- Hayes, Danny, and Matt Guardino. 2010. “Whose Views Made the News?: Media Coverage and the March to War in Iraq.” *Political Communication* 27 (1): 59–87.
- Hedin, Jack. 2010. “An Almanac of Extreme Weather.” *New York Times*, November 28, 9.
- Hunter, David. 2010. “Implications of the Copenhagen Accord for Global Climate Governance.” *Sustainable Development Law & Policy* 10 (2): 4–15, 56–57.
- Indian Country Today*. 2010. “Climate Situation ‘Dire and Urgent.’” *Indian Country Today*, December 8, 4.
- Iyengar, Shanto, and Jennifer A. McGrady. 2007. *Media Politics: A Citizen’s Guide*. New York: W.W. Norton & Company.
- Kaufman, Leslie. 2010. “Front-Line City Starts Tackling Rise in the Sea.” *New York Times*, November 26, A1.
- Luntz, Frank. 2002. “The Environment: A Cleaner, Safer, Healthier America.” <http://www.politicalstrategy.org/archives/001330.php>.
- McCombs, Maxwell, and Donald Shaw. 1972. “The Agenda-Setting Function of Mass Media.” *Public Opinion Quarterly* 36: 176–87.
- McCright, Aaron M., and Riley E. Dunlap. 2000. “Challenging Global Warming as a Social Problem: An Analysis of the Conservative Movement’s Counter-Claims.” *Social Problems* 47 (4): 499–522.
- McCright, Aaron M., and Riley E. Dunlap. 2003. “Defeating Kyoto: The Conservative Movement’s Impact on Climate Change Policy.” *Social Problems* 50 (3): 348–73.
- McCright, Aaron M., and Riley E. Dunlap. 2010. “Anti-Reflexivity: The American Conservative Movement’s Success in Undermining Climate Science and Policy.” *Theory, Culture & Society* 27 (2–3): 100–33.
- McKnight, David. 2010. “A Change in the Climate?: The Journalism of Opinion at News Corporation.” *Journalism* 11 (6): 693–706.
- Mermin, Jonathan. 1999. *Debating War and Peace*. Princeton, NJ: Princeton University Press.
- Nisbet, Matthew C. 2009. “Communicating Climate Change: Why Frames Matter for Public Engagement.” *Environment* 51 (March/April): 12–23.
- Nisbet, Matthew C. 2011. “Climate Shift: Clear Vision for the Next Decade of Public Debate.” Spring. www.ClimateShiftProject.org.
- Nordhaus, Ted, and Michael Shellenberger. 2010. “How to Change the Global Energy Conversation.” *Wall Street Journal*, November 29, R1.
- Obama, Barack. 2010. “Press Conference by the President.” November 3. <http://www.whitehouse.gov/the-press-office/2010/11/03/press-conference-president>.
- Painter, James. 2010. *Summoned by Science: Reporting Climate Change at Copenhagen and Beyond*. Oxford: Reuters Institute for the Study of Journalism.
- Pielke, Roger, Jr. 2010. *The Climate Fix: What Scientists and Politicians Won’t Tell You About Global Warming*. New York: Basic Books.
- Purcell, Kristen Lee Rainie, Amy Mitchell, Tom Rosenstiel, and Kenny Olmstead. 2010. “Understanding the Participatory News Consumer: How Internet and Cell Phone Users Have Turned News into a Social Experience.” Pew Research Center, Pew Internet and American Life Project. March 1: 1–51. <http://www.pewinternet.org/Reports/2010/Online-News.aspx>.
- Romer, Christina D. 2010. “It’s the Big Questions that Slow Growth.” *New York Times*, December 5, B4.
- Rosenthal, Elisabeth. 2010a. “Booming China Is Buying Up World’s Coal.” *New York Times*, November 22, A1.
- Rosenthal, Elisabeth. 2010b. “With Peels and Pig Innards, a Swedish City Forgoes Coal and Oil.” *New York Times*, December 11, A1.
- Russell, Cristine. 2010. “From Copenhagen to Cancun: A Challenging Year for the Climate Story.” *Columbia Journalism Review*, November 24, http://www.cjr.org/the_observatory/from_copenhagen_to_cancun.php.
- Schattschneider, E. E. 1960. *The Semisovereign People: A Realist’s View of Democracy in America*. New York: Holt, Rinehart and Winston.
- Scheiner, Eric. 2010. “Obama’s Science Adviser: Don’t Call it ‘Global Warming.’” *CNS.com*, September 14, <http://www.cnsnews.com/node/75296>.
- Shanker, Thom. 2010. “Why We Might Fight, 2011 Edition.” *New York Times*, December 12, 3.
- U.S. Department of Defense. 2010. “Quadrennial Defense Review Report.” February, <http://www.defense.gov/qdr/qdr%20as%20of%2029jan10%201600.pdf>.
- Vidal, John. 2009. “Copenhagen Media Coverage: A Perfect Storm.” *Guardian*, December 7, <http://www.guardian.co.uk/media/2009/dec/07/copenhagen-summit-media-army>.