

SAVING THE PLANET

ENVIRONMENTAL JOURNALISM AND PUBLIC OPINION

Carlos Elías

Environmental journalism has been instrumental to changing public opinion from believing we are the chosen species, with a right to subdue nature, to the awareness that nature must be respected. However, reactionary sectors of society are using environmental journalism to confuse public opinion. Only by regarding this genre as an important part of science journalism, and by selecting truly reliable sources, can we fight against the demagoguery that often creeps into the media when it comes to the environment.

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For some years now, no more than two decades. several scientific issues have been in the mass media. News about climate change, global warming and desertification appear in media coverage almost daily. From this journalistic platform (political ministries included), the environment has also made its mark on the political and economic agenda and even on the artistic agenda, with excellent movies like Avatar. This has led to a rise in a type of journalism, which in the eighties was purely anecdotal, so-called environmental journalism.

Although in many cases it is impossible to say which came first, the chicken or the egg, with respect to public awareness about environmental issues we can trace the origins, and safely state that journalism has played a key role. And it has not been easy. In the West, at least, the three great monotheistic religions -Judaism, Christianity and Islam-believe that nature exists to be subdued by mankind and to serve him alone.

Even today, for example, the Aqueduct in Segovia is considered a laudable monument, when in reality it carried water from the wetlands to dry regions, severely breaking the natural balance of ecosystems. Seldom are the destructive powers of the Roman aqueducts and roads explained. Nor does history recount how the Roman barbarians almost drove the brown bear to extinction in Europe, just for the fun of it. Even so, ancient Rome and its peoples were known as «civilized» people as compared to the Celts or the

Guanches, considered, even by supposedly reliable historians, as barbarian or pagan peoples -with negative connotations- because they worshipped trees or rivers instead of human abstractions or symbols.

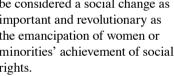
Given these foundations (Judeo-Christian ideology that undervalues nature versus man and Roman tradition that considers the submission and modification of natural environmental conditions to be a cultural achievement), the fact that Western public opinion is ever more aware of the environment can

> be considered a social change as important and revolutionary as the emancipation of women or minorities' achievement of social rights.

I would like to stress that the role played by journalism in bringing about this change has been fundamental. The first step was for environmental journalists to explain to the public how nature works, how to care for it and, above all, how to conserve

it. The second step, which is only just beginning, goes even further: it involves replacing the image of man as the «chosen species» with man as a destructive and predatory species on the planet. Richard Attenborough's documentary series or Richard Dawkins' views point in this direction and this has triggered fierce opposition by the most reactionary sectors of society.

One idea that has been conveyed to the public is that the most important problem facing the planet is environmental deterioration caused, among other





things, by the relentless and unsustainable population growth of a terrible predator species: mankind. To consider man as a «deadly plague» is a philosophical approach unprecedented in the West.

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Interestingly, journalism has become the weapon of choice to save the planet. This has not only boosted the environmental journalism genre, but also counter-initiatives that seek to destroy it.

THE LINK BETWEEN **ENVIRONMENTAL AND SCIENCE JOURNALISM**

One of the most intriguing aspects of this phenomenon, especially for those of us who study it from the academic point of view, is that environmental journalism is breaking away from science journalism. In Spain, for example, the association of science iournalists coexists with the association of environmental journalists. Another example is the new degree offered by the Carlos III University of Madrid, where a compulsory subject called «Scientific

and Environmental Journalism» has replaced the formerly compulsory «Journalism for Science and Technology» which figured in the previous Bachelor degree programme.

This change in a core subject of a degree course, or the fact that there are two different associations, can be viewed in two ways. From the positive viewpoint, it indicates the extraordinary importance given to environmental journalism over other areas. The radical avant-garde representation of the human species in relation to nature has not been in vain. From this viewpoint the differentiation is highly justifiable.

But there is also a darker side to this issue: segregating «environmental» from «scientific» may give the impression that it is not considered a «science», but an «ideology». If the environment is considered to be a science, like any other, why isn't it taken care of by science journalists whose areas of expertise fall within ecology, atmospheric physics, particle physics (for nuclear energy), soil science, agricultural chemistry or marine biology, among others?



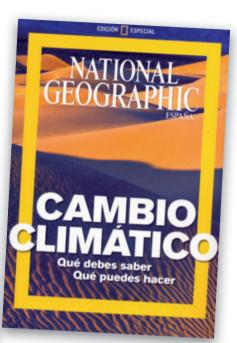
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Nowadays, various issues related to the environment have managed to capture media attention. This is the case of climate change, which has appeared both on the cover of specialist journals and in daily newspaper headlines. Moreover, climate change is an example of how environmental issues can turn into ideological ones. To deal with this, journalists should have sufficient knowledge and skill to identify reliable sources.

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Its separation from science journalism is, therefore, controversial: if environment is science, this specification is redundant; and if it is not science -as some extreme right ideologists would like- its arguments cannot be considered valid bases for political or economic decisions. In other words, this differentiation could be seen to reinforce it as a science in its own right or, conversely, to exclude it.

Obviously, environmental studies constitute a pure science, a multidisciplinary one if you will, but just as scientific as particle physics, ecology, soil science or organic chemistry. The great danger, I stress, of divorcing

environment from the word science is that by becoming independent it is not recognized by the public as a science and, therefore, its arguments are subject to value judgments, like literary or film critiques and, last but not least, environmental journalists are not trained under the strict ground rules underpinning science journalism of quality.

From the professional viewpoint, the environmental journalist should be, above all, a pure science journalist, which implies having excellent knowledge of physics, chemistry, biology and geology, at least to

university degree level. Moreover, given the particular idiosyncrasies of environmental information, in which, for example, there are many biased information sources -aiming to manipulate public opinion- the environmental journalist must have far greater scientific knowledge than, for example, the journalist who specializes in astronomy, a field where information is readily available from press offices. The media coverage of astronomy, for example, is not of interest to information manipulators. There is no politicization possible of research results reporting the existence of a black hole in a particular galaxy. But it is quite another story for climate change, and the reporter must have enough knowledge to discuss research results and, more importantly, discern reliable information sources.

Science journalism, for example, has taken years to establish the criteria for selecting reliable information sources. To begin with, only those results which have been endorsed by prestigious journals are published, which, in turn, have undergone a blind peer review

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system with ensured repeatability of experiments. Thus, results published in journals like Nature or Science are preferred over others appearing in obscure or

Furthermore, science journalism has come to accept an important maxim: there is freedom of expression, but not freedom of opinion. For example, geographers, economists or sociologists will never write about the possibility of life on other planets; only geologists, chemists, physicists and biologists will do so. This has enabled us to differentiate science from pseudoscience, as far as possible.

However, environmental journalism is moving dangerously

away from the path of science. All the research we have carried out concerning the sources used in environmental journalism confirms they are often of ideological nature, such as environmentalists -who though not scientists are thought to be so by unskilled journalists- or politicians, lobbyists, economic agents, etc. And, finally, there is something very strange, whereby bad journalism uses the odd term expert. It is curious that such a noun, or adjective, is hardly ever used in science journalism because it masks the source. So, what is an expert?

unknown journals.

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THE CHALLENGE OF COMPLEXITY

XAVIER DURAN

he gradual melting of the Arctic, the subsequent opening of new shipping routes and easier access to various natural resources comprise a topic that mixes climatology, geology, technology, economics and geopolitics, among other subjects. This is likely to be dealt with by environmental journalists, who also have to discuss other effects of this melting: the future impact on the climate or changes to ecosystems and, therefore, fishing resources, and so on.

This is a good example of the complexity of environmental information and the need for those working is this area to deal with highly diverse topics and not just ecology-related issues. At the same time, it demonstrates that certain strategic or economic analyses cannot ignore environmental concerns.

I believe that this interweaving of many different topics is the most remarkable aspect of the challenge facing environmental journalism, along with its role of complementing information from other areas —and, often, even shedding light on issues that should be analyzed by other specialists—. Environmental

reporting has grown spectacularly in recent years; however, this does not mean a simple increase in the amount of media coverage but also an adaptation that has led to an increase in complexity.

Twenty years ago it was essential to explain the basics of environmental problems and how to tackle them. You had to know what a waste collection station was, what caused the greenhouse effect, why the ozone layer was being destroyed and why it was important. But for a while now, without excluding these explanations, environmental information has had to take a qualitative leap to another level. It must always be stressed that environmental information cannot be limited to pollution, waste, protected species and natural areas. And even when dealing with these issues and approaches, they may not be the same as before.

Etymologically speaking, *ecology* means «study of the house» and *economy*, «housekeeping». You cannot manage a house without knowing it but,

similarly, we cannot apply knowledge without taking into account management requirements. This implies that environmental proposals, though they may often simply be driven by ethical principles, must also take economic arguments into account.

But take care, this does not mean that they should be viewed from the traditional economic perspective. Part of the work of environmentalists and environmental reporters is, precisely, to show that misguided economic accounting, sooner or later, leads to results that are far from those sought after. Ecological economics, a field in which we have pioneers working in our country, shows that it is a mistake to consider simply as costs what are actually investments, ignore certain losses because they have

a clear monetary value or forget that consuming certain resources at a particular pace is the same as spending capital without bothering to recapitalize.

This means you have to explain the value of reducing pollution. In other words, it is not just a whim to enjoy cleaner air, but necessary in order to reduce death and disease, improve quality of life and, incidentally, reduce the costs incurred due to healthcare, sick leave, decreased

productivity and payouts for disability, orphanhood or widowhood. That is, the main aim is to do with ethics but for those who do not understand ethics, we must make them see that there are also economic benefits. Similar explanations should be given with regard to biodiversity and ecosystems. The conservation of natural heritage is an ethical obligation but to forget that these ecosystems provide a multitude of services valued in billions of Euros (see www.teebweb.org) is an outrage in economic and practical terms.

The complexity of environmental information mirrors the complexity of our society and the difficulties of establishing clear-cut planning. The debate on the balance of emissions from biofuels has partly been generated by the interests of big oil companies, but has also given rise to consistent and rigorous studies showing that simple analyses do not always give the right answers. The most likely answer to this question is «biofuels, yes, but it depends on which one and how». On the other hand, despite the

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Programme header El medi ambient (The environment) on TV3

enthusiasm for certain solutions, such as electric cars, we should not forget that great transitions are not made in five or ten years, and that great revolutions involve making profound changes, not just superficial patching up. Explaining all this is not just the work of environmental journalists alone, but environmental journalists do play an essential role.

It is clear that it is not easy to report and reflect on the subject. And less so in modern times, where the most instant, concise and schematic information wins. We run the risk of oversimplifying, ignoring many nuances and underlying factors, or wanting to take so many things into account that the message is confused and confusing. Moreover, the public wants irrefutable facts; nuances can be misinterpreted, and exploited, to say that some phenomena -climate change for instance—are not as clear cut as some say. Another problem facing the environmental reporter is to know how to deal with lobbyists who spread biased or misleading information.

And finally, they have to deal with biased information and opinions or simply unsubstantiated statements made by guest speakers or columnists. Some make really interesting contributions in their field of expertise. But most face the problem of having to be an expert on earthquakes in Haiti today, speaking about the safety of electricity grids tomorrow, and soon after demonstrating profound knowledge of French regional policy or the advantages and drawbacks of delaying retirement.

Furthermore, we are talking about reputedly popular people, who belong to the star review system and are therefore attributed, as far as the public is concerned, with a credibility that is not always justly deserved. They take advantage of the enormous echo that booms where culture and scientific information are, unfortunately, often lacking.

Xavier Duran. Science Journalist. Director of El medi ambient (The environment), TV3.

Environmental journalism employs this obscure term «expert» to justify something as detrimental to journalism as neutrality, which is never used in science journalism. Thus, for example, it gives voice to so-called climate change «sceptics», which is a scandal equal to reporting disbelief that man was ever on the Moon or those casting doubts on the theory of evolution.

These «experts» take refuge in pretentious titles like «director of the institute of such-and-such» to hide their lack of scientific wisdom, while the journalist never specifies how many articles they have published in *Nature* or if they hold a PhD in oceanography. This is turning environmental journalism into pseudo-journalism or, at best, something different from science journalism. Unless we change course, environmental journalism will become a Trojan horse for those wishing to destroy the planet instead of the planet-saving device it has been so far.

For example, a content analysis of those that usually appear as climate change sceptics in the Spanish

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media reveals that they have all studied Humanities (i.e., true scientific illiterates) ranging from: Antón Uriarte (Professor of Geography at the University of the Basque Country, where until recently geography and history were studied together and previously belonged to the area of philosophy and liberal arts) to journalists like Jorge Alcalde (also liberal arts); economists (by the way, where do Spanish economists study botany or ecology?) like Gabriel Calzada or political scientists (as if a degree in political science had anything to do with natural science), like Bjorn Lomborg. These information sources would never be used by a reliable science journalist, who would resort only to someone qualified in marine science, physics, chemistry, biology or other natural sciences. And this is what differentiates good journalism from trash reporting. I hope that in the future environmental and science journalism will not be differentiated thus. •

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