Causes of ecological crisis pdf

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One of the most compelling reasons for studying environmental science and management is the fact that, in the view of many leading authorities, we are now experiencing an environmental crisis; indeed, many authors have claimed that the present environmental crisis is unprecedented in its magnitude, pace and severity (Park 2001). Awareness of this environmental crisis has grown since the 1970s, partly as a result of the prominence given to major so-called 'environmental' disasters such as the Sahelian droughts of the 1970s, and 1980s and the nuclear accident at Chernobyl in 1986. A major assessment of the global environmental' disasters such as the Sahelian droughts of the 1970s and 1980s and the nuclear accident at Chernobyl in 1986. report (UNEP 1999), drew attention to two critical, recurring themes: the fact that the global human ecosystem is threatened by grave imbalances in productivity and in the distribution of goods and services - as evidenced by the fact that a large proportion of the human population lives in poverty, and that a widening gap exists between those who benefit from economic and technological development and those who do not the fact that accelerating changes are occurring at the global scale, with rates of economic and social development outstripping progress in achieving internationally co-ordinated environmental stewardship - with the result that improvements in environmental protection due to new technologies are being 'cancelled out' by the magnitude and pace of human population growth and economic development Consequently, a wide range of environmental problems include anthropogenic climate change ('global warming'), the depletion of stratospheric ozone (the 'ozone hole'), the acidification of surface waters ('acid rain'), the destruction of tropical forests, the depletion and extinction of species, and the precipitous decline of biodiversity. Yet, while all of these problems have physical (environmental) manifestations, their causes - and their potential solutions - are invariably bound up with human attitudes, beliefs, values, needs, desires, expectations, and behaviours. Thus the symptoms of the environmental crisis cannot be regarded purely as physical problems and they are intrinsically human problems and human problems and they are i point, a very brief overview of the environmental crisis may be helpful. It is important to emphasise that a wide range of views about the nature and severity of the current environmental crisis encompasses the following main issues. Climate change: anthropogenic climate change due to pollution of the atmosphere by greenhouse gases (and other contaminants) is now regarded as one of the major global environmental issues. It occurs largely as a result of the combustion of fossil fuels, emissions from agriculture and pastoralism, and land-use changes that accompany the destruction, clearance and burning of forests. Climate change already has observable ecological and social effects, and its projected impacts could potentially result in profound changes in global mean surface temperature, sea level, ocean circulation, precipitation patterns, climatic zones, species distributions and ecosystem function. Stratospheric ozone depletion: the depletion of stratospheric ozone due to the pollution of the atmosphere by halocarbons, or CFCs) is another serious environmental issue. It is a significant concern because the lack of protective ozone at high altitudes results in increased levels of harmful solar ultraviolet (UV-B) radiation reaching the concern because the lack of protective ozone at high altitudes results in increased levels of harmful solar ultraviolet (UV-B) radiation reaching the concern because the lack of protective ozone at high altitudes results in increased levels of harmful solar ultraviolet (UV-B) radiation reaching the concern because the lack of protective ozone at high altitudes results in increased levels of harmful solar ultraviolet (UV-B) radiation reaching the concern because the lack of protective ozone at high altitudes results in increased levels of harmful solar ultraviolet (UV-B) radiation reaching the concern because the lack of protective ozone at high altitudes results in increased levels of harmful solar ultraviolet (UV-B) radiation reaching the concern because the lack of protective ozone at high altitudes results in increased levels of harmful solar ultraviolet (UV-B) radiation reaching the concern because the lack of protective ozone at high altitudes results in increased levels of harmful solar ultraviolet (UV-B) radiation reaching the concern because the lack of protective ozone at high altitudes results in increased levels of harmful solar ultraviolet (UV-B) radiation reaching the concern because the lack of protective ozone at high altitudes results in increased levels of harmful solar ultraviolet (UV-B) radiation reaching the concern because the lack of protective ozone at high altitudes results in increased levels of harmful solar ultraviolet (UV-B) radiation reaching the concern because the lack of protective ozone at high altitudes results in increased levels of harmful solar ultraviolet (UV-B) radiation reaching the concern because the lack of protective ozone at high altited exectiv earth's surface, causing a range of health-related and ecological impacts. Degraded air quality; other forms of air pollution are also significant, particularly at regional and local scales, as they may seriously degrade air quality; worldwide, approximately one billion people inhabit areas - mainly industrial cities - where unhealthy levels of air pollution occur. Many air pollutants are responsible for the degradation of air quality, but some key pollutants include particulate matter (such as soot), tropospheric ozone, oxides of sulphur, lead and various aromatic compounds (such as soot), tropospheric ozone, oxides of sulphur, lead and various aromatic compounds (such as soot), tropospheric ozone, oxides of sulphur, lead and various aromatic compounds (such as benzene). are known carcinogens; and some can cause damage to vegetation and, in turn, produce a range of ecological effects. Degraded water quality: similarly, water quality: similar water pollution is the terrestrial run-off to inshore waters that occurs in many coastal locations; such run-off may contain significantly elevated levels of nitrogen and phosphorus from agricultural land and from human settlements. Many other human settlements. effluent. Oil spills, accumulation of plastics and the bioaccumulation of persistent organic chemicals are some of the other reasons for the scarcity of fresh water: besides the pollution of fresh water for drinking in many parts of the scarcity of fresh water sources. world - many of which are related to poor water resource management practices. For instance, the over-abstraction of water from rivers results in water shortages and problems of salinisation downstream. Irrigation practices may also be responsible for the depletion of local water shortages and the salinisation of irrigated land. Vast differences in water security exist at the global scale, reflecting both demand for fresh water and the scale of public and private investment in water supplies, treatment and distribution. Land contamination occurs as a result of chemical or radioactive pollution, especially by long-lived (persistent) chemical species that enter the soil. Land contamination may cause profound ecological effects and it presents severe constraints to development, since contaminated land must typically be rehabilitated before it is safe to use for agriculture, construction or recreation. Deforestation: it has been estimated that around half of the world's mature forests have been cleared by humans. Deforestation occurs for a variety of reasons, but the majority of deforestation now occurs when tropical forests are cleared for agriculture and pastoralism; other reasons include the destruction of trees for charcoal production and the selective logging of forests for timber. an essential part of the global ecosystem and of the biosphere: they help to regulate climate; they protect soils from erosion; and they provide habitats for a vast number of plant and animal species. One estimate suggests that around 90% of the world's species are found in tropical forests (Park 2001). Soil erosion and degradation: concerns about soil erosion, soil degradation and the problem of desertification have become acute. In part, these concerns are based on the historical experiences of dramatic soil erosion and transport in New World countries including the USA (during the 'Dust Bowl' of the 1930s) and Australia. become more sophisticated, recently, it is clear that these problems continue to have important consequences for agricultural and pastoral productivity as well as for the functioning of natural ecosystems. Land use change and habitat loss: these issues overlap with others, such as deforestation, but they are broader and include the clearance of forest for agriculture and pastoralism, the transformation of land during urban growth, the development of new infrastructure (such as roads), the drainage of wetlands, and the destruction and removal of coastal mangrove forests. The impact of land use change on forest and grassland environments is depicted in 1.4.1. Biodiversity loss: many plant and animal species are threatened with extinction, due to the spread of disease, the destruction and degradation of their habitats, and direct exploitation. In 1999, UNEP (1999) estimated that one-quarter of the world's mammal species and around one-tenth of the wo not confined to terrestrial ecosystems; serious concerns have been raised about the future of marine and coastal wildlife species as a result of the pollution, over-exploitation and acidification of ocean and seas. 1.4.1 Changes in ecosystems with different intensities of land use (c) Michel Jeuken, PBL and Hugo Ahlenius, Nordpil Source: UNEP/GRID-Arendal (2009) Other related issues Some issues associated with the environmental crisis are not strictly 'environmental', but are closely related to environmental issues. They encompass a range of economic, social, political and technological issues. around 12 000 years ago, and its rate of growth has generally increased over time, largely as a result of increased food production and improved sanitation and health care. Achieving the first one billion was achieved in little more than a decade. However, recent declines in the rate of growth of population have occurred in many parts of the world, and in some countries population in 1998; it currently far exceeds 6 billion people and is expected to have reached 9.4 billion people by 2050. The increasing human population inevitably places greater demands on the natural environmental degradation is a complex and controversial question. Significant differences exist in cultural attitudes to the issues of human population size and the rate of population growth. Urbanisation: the issue of urbanisation is indirectly related to that of population growth, since urbanisation is occurring in response to increasing population growth, since urbanisation is occurring in response to increasing population growth. people). Urbanisation is often associated with a range of social and environmental problems including overcrowding, congestion, pollution, public health issues, shortages of water for drinking, and inadequate sanitation. Urbanisation is also related to another issue: the decline of rural communities. Poverty: whilst poverty is complex and problematic to define, the persistence of poverty at all levels (from intra-household to global) represents an ongoing challenge, as acknowledged in most current development policies, initiatives and targets (such as the United Nations Millennium Development Goals (UNDP undated)). Vast differences in patterns of income, production and consumption are evident at all spatial scales, and those patterns are reflected in distinctive patterns of environmental impacts are 'exported', as in the case of radioactive waste that is generated in one country before being transported to another for processing or disposal). Food insecurity: in general, the rate of increase in total food production has exceeded that of total population growth over recent decades, mainly due to improvements in agricultural practices and in water management techniques. However, the average values conceal enormous differences in the distribution and quality of food, and the lack of food security remains a profound challenge in many parts of the world. Debates about food production raise important environmental issues such as the use of genetically modified (GM) and inadequate shelter; those are often compounded by the spread of infectious diseases such as malaria, cholera, tuberculosis and HIV/AIDS. Large differences occur in the responses of human societies to diseases, reflecting vast inequalities in health care spending and in funding for pharmaceutical and medical research. Peak oil and energy security: peak oil refers to the time at which maximum crude oil extraction occurs, after which the economically viable reserves become depleted and the rate of oil extraction declines. Some estimates suggest that peak oil will occur - or has already occurred - early in the 21st century, with the implication that alternative energy sources will need to be developed in sufficient time to serve as a substitute for oil. Regardless of the accuracy of predictions about 'green' (decarbonised or renewable) energy sources and energy security. Conflict and displacement: conflict between human societies continues to create severe environmental degradation in addition to human misery and a wide range of social impacts. For instance, the use of depleted uranium munitions causes significant land contamination, whilst the effects of the displacement of people does not occur only in response to violence; globally, the effects of climate change are projected to result in the displacement of as many as 500 million environmental refugees. Natural disasters Whilst not necessarily part of the environmental refugees. disasters such as earthquakes, landslides, floods, tsunamis and wildfires. Yet whilst these hazards may be natural in origin, it is important to acknowledge that human vulnerability to natural disasters is generally increasing, not least because human populations and settlements are growing in many marginal and dangerous areas, such as floodplains Hence unsustainable practices - such as the construction of settlements on floodplains, or the intensive cultivation of marginal hill slope lands - may greatly increase the impacts of the environmental crisis have been the subject of considerable debate. However, in general, its main causes are now acknowledged to be: technological developments over the course of human history - and particularly since the Industrial Revolution - which have allowed humans to exert a greater influence over natural resources and ecosystems rapidly increasing human population which has led to significant increases in human population density in many parts of the world dramatic increases in resource and energy consumption - particularly since the Industrial Revolution, and especially since the Industrial Revolution, and especially since the Industrial Revolution of the world as illustrated in 1.4.2. 1.4.2 Energy consumption, economic development and CO2 emissions; selected Latin America countries Source: UNEP/GRID-Arendal (2005b) the emergence and development of the capitalist world economy in which increasing flows of people, resources, products, energy and waste have occurred, together with increasing environmental impacts utilitarian attitudes towards the environment which have allowed the unrestricted exploitation of natural resources and ecosystems short-term profit maximisation) than on environmental protection For these reasons, amongst others, the environmental crisis presents an immense challenge to policy-makers and to many other organisations and individuals who must find creative responses to these issues - ideally, within an overall policy framework that promotes a sufficiently strong version of sustainable development. List the main issues that comprise the environmental crisis. As far as possible, categorise those issues according to (a) spatial scale; (b) time scale; and (c) the prospects for finding effective technological or policy solutions.

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