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Environmental ethics

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i What is an environmental ethic?

KAKADU NATIONAL PARK in Australia's Northern Territory, contains rugged woodlands, swamps and waterways supporting a rich variety of life; it contains pecies found nowhere else, including some, such as the Hooded Parrot and the recreational and research opportunities. Many think it is a place of immense aboriginals. Kakadu is also rich in gold, platinum, palladium and uranium, which aesthetic, recreational and research opportunities will be reduced, the beauty of the naturalness of the place will be compromised and the spiritual values of the pressure to allow more. Should more mining be allowed? Should any mining at all be allowed? How exactly might we reach a support the reach species will have reach and the spiritual and there is all be allowed? How exactly might we reach a support of the place will be compromised and the spiritual values of the pressure to allow more. Should more mining be allowed? Should any mining at

principles which offer moral guidance in our treatment of wild nature and which For such people the resolution of the Kakadu controversy requires an appeal to others, including corporations and governments, to conform to moral principles. EGOISM.) However, many people do want their own actions and the actions of amoral. (They might be the kind of rational egoists described in Article 16. evaluative background need not include moral principles; some people might be because he or she thinks it is morally wrong to cause the death of wildlife. The to wildlife because he or she desires that wildlife be protected or, more seriously, principles. An environmentalist might want to know whether mining is a threat are such things as desires, preferences, aims, goals and principles, including moral to different assessments of what should be done. What constitutes this background against a certain kind of background, and differences in this background give rise is better to go ahead with mining. Settling the facts does not ensure that the issue is settled. Arguments about such facts only have point, only make sense. empirical claims and there are some who think that even if the claims are true it is, claims about what does and will in fact happen. Many supporters dispute these and disrupt ecosystems. This opposition to mining relies on empirical claims; that of mining claim that it is likely to pollute rivers, poison wildlife, endanger species all be allowed? How exactly might we reach answers to these ethical questions? Empirical or factual evidence certainly plays a role. For example, opponents

enable us to answer questions like: would it matter if our actions caused a species to become extinct? Would it matter if our actions caused the death of individual animals? Would it matter if we caused widespread erosion in Kakadu? Would it matter if we turned the South Alligator River into a watercourse devoid of life? Is it better to protect Kakadu or to generate increased material wealth which might improve the lives of a number of people? Is the extinction of a species an acceptable price to pay for increased employment opportunities? Such sets of principles, which would guide our treatment of wild nature, constitute an environmental ethic in the most general sense. There is a variety of competing, including partly overlapping, environmental ethics.

of some or other environmental ethic, it should conform to the correct, or best encounter. It is not enough that an environmental policy conform to the principles we are to adjudicate between the various competing environmental ethics we in subjecting it to critical appraisal or justification. Justification is necessary if possibility is that the principle is not itself basic but rests on a principle enjoining considered in itself, quite apart from any consequences it might have. Another nevertheless be committed to the view that the extinction of species etc. is bad number of principles. Consider environmentalists who say that the extinction of committed to an environmental ethic consisting of at least one, but usually a fleshed out? How might putative environmental ethics be justified? by the extinction of species. Making the ethical commitment explicit is a first step concern for human welfare, combined with the belief that humans are harmed Without having explicitly represented it as such, an environmentalist might matter what the cause. This might be a basic principle in an environmental ethic. species as a result of human actions is a bad thing, maybe even a bad thing no justified, one. We have two questions: how might an environmental ethic be People who have views of a moral kind about environmental issues are

1 Human-centred ethics

effects would have to be subtracted from any increases in happiness which changes in flood patterns and so on, some might be psychologically harmed by enjoyments, some might be adversely affected by resultant climatic changes, generations, might miss out on the chance of particular recreational or aesthetic some might be saddened by the loss of species, some, including members of tuture unhappy; for instance, some might be moved by the plight of individual animals, of the wetlands and that if this happened then some people would be made unhappiness. We might discover that mining would reduce the ecological richness calculate the varying effects of the Kakadu options on human happiness and is one example of a human-centred ethic. Taking this ethic seriously obliges us to enjoins us to maximize the surplus of human happiness over human unhappiness, the despoliation of areas to which they have a spiritual attachment. These negative animal suffering in their ethical calculation, a variant of utilitarianism, which human-centred environmental ethic. Although the classical utilitarians include how they affect humans (see Baxter, 1974, and Norton, 1988). This entails a Some think that environmental policies should be evaluated solely on the basis of

resulted from mining in Kakadu. A human-centred ethic could lead to substantial agreement with environmentalists about policy. This would depend on the facts about the effects on humans of changes to the natural environment. However, this decision would have been reached by considering the interests of humans alone. A helpful way of putting this is to say that this ethic treats only humans as morally considerable. Something is morally considerable if it enters into ethical evaluation in its own right, independently of its usefulness as a means to other ends. Consider the Pig-nosed Turtle. On the human-centred ethic just now described neither the species as a whole nor the individual members of it are is morally considerable: it is only the happiness and unhappiness of humans which to the turtles

2 Animal-centred ethics

There is a view of ethics which counts not only humans as morally considerable but non-human animals as well; it includes all animals in its scope. Many of the things which we do to the natural environment do affect non-humans adversely and this, it is suggested, must be taken into account. For example, if we thought that cyanide pollution in the South Alligator River would cause non-humans to suffer then this is a moral minus which must be taken into account independently of how things will be for humans. The example is not fanciful: consider the effect on non-humans caused by clear-cutting forests, damming river valleys, quarrying mountains, constructing pipelines and so on. An animal-centred ethic enjoins the moral consideration of individual animals not of species: what happens to species is only of indirect concern insofar as it affects individual animals.

might swing a decision in favour of humans and against kangaroos. This is interests are equally threatened or equally protected: the appeal to the additional particularly likely in, although not restricted to, cases in which their common because they lack them, kangaroos could not have. Such additional interests capacities of kangaroos. These capacities might underpin certain interests which, theoretical knowledge or for rational autonomous action, which are arguably not which not all animals have. For example, humans have a capacity for developing leave scope for differentiation, which might still be made on the basis of interests arbitrariness seems to require that equal interests be treated equally. This would numbers involved. It could be such as to allow stronger or more numerous nonno matter what the intensity or strength of the interests and no matter what the such as to make human interests always count for more than non-human interests simply because they are the interests of non-humans. Just how this will affect human interests to prevail over weaker or fewer human interests. Avoiding judgements about policy will depend on the degree of the discounting. It could be and many would say unjustified, discounting of the interests of non-humans different kinds. One form this differentiation might take involves the arbitrary. some animal-centred ethics will accord different moral significance to animals of does not necessarily rank them equally. A useful way of putting this is to say that While an animal-centred ethic counts all animals as morally considerable it

unshared interest acts as a tie-breaker. Imagine that some important medical breakthrough depended on confining either humans or kangaroos. Keeping kangaroos in a very large enclosure in order to study them may be morally preferable if it threatens no interests of theirs; if they are not treated cruelly, if they are fed, if they are able to behave according to their nature. Confining humans in the same way is not morally acceptable because of the additional interests of humans. This mode of differentiation treats equal interests equally regardless of species and it also allows that unshared interests leave room for degrees of moral significance. (See Article 30, ANIMALS, for further discussion of animal-centred ethics.)

3 Life-centred ethics

suggested, ecosystems and even the whole biosphere itself (See Attfield, 1983, complex, the more morally significant. To take a different kind of case, it morally not necessarily consciously, towards certain goals. Moreover, it is this feature depend on how the question 'What is living?' is answered. However this question Goodpaster. 1978, and Taylor, 1986). The complexity of a life-centred ethic will includes plants, algae, single-celled organisms, perhaps viruses and, it is sometimes consequences of the plant ceasing to exist and the Pig-nosed Turtle ceasing to species. Here the differentiation is based on a moral assessment of the respective living thing. Here complexity acts as an intensifier: if living, then the more Turtle than a waratah shrub, even though both are morally considerable. The necessarily of equal moral significance. So, it might be better to save a Pig-nosed centred ethic counts all living things as morally considerable, although not which is typically supposed to confer moral considerability on living things. A lifeis settled it will make much of the idea of a self-regulating system which strives, The class of living things includes more than humans and non-human animals; it exist, and not on internal characteristics of the living things themselves. nosed Turtle fills a niche that perhaps could be filled by similar turtles of a different because only that plant can fill its particular ecological niche, whereas the Pigmight be preferable to save some plant rather than to save the Pig-nosed Turtle, former, however, might be more morally significant because it is a more complex

A life-centred ethic requires that in deciding how we should act we need to take account of the impact of our actions on every living thing affected by them. For example, if mining goes on in Kakadu, it will involve cutting down trees and destroying other plants; it will cause the death of some animals and impair, if not destroy, wetland ecosystems. These facts and others count against mining and collectively must be weighed against the good things that might result if mining does go ahead. Since the good things would seem to include only material benefits for some humans, it would be difficult to do the evaluation sum in such a way that it sanctioned mining. This is not so say that it is never morally permissible to fell trees, to flatten dunes, to kill animals, to modify ecosystems and so on. Whether it is permissible depends on what the outcomes are and on differences in moral significance within the class of the morally considerable. A life-centred ethic, incidentally, might take a radical form: it might claim that not only are all

living things morally considerable but also that they are of equal moral significance. (See Naess, 1979.) This biotic egalitarianism, if it could be justified, would make it very difficult indeed to defend morally human interventions in the natural living things count for more than one. Most proposed life-centred ethics allow for not be counted the most significant. The preservation of the biosphere and of large numbers of humans.

4 Rights for rocks?

The ethics so far considered each evaluate actions by considering consequences for individuals and adding them. What distinguishes these ethics are the kinds of included by earlier ones in the list. It could be argued that we are drawn inexorably to a life-centred ethic; that there is no non-arbitrary way of stopping the drift from argument another step and count non-living things too as morally considerable? There is no attempt here to attribute a mental life or a point of view to non-living non-living things; that would be to enter into an entirely different dispute. The claim is that also lack even rudimentary biological organization, are morally considerable. Call the content of thing thing thing thing thing thing.

Take rocks for example. Mining will involve smashing up rocks, disturbing geological structures, spoiling fossils and the like. Is there anything wrong in doing these things? Here we must take care to forget for a moment the conmust ask whether these things would be done to plants, animals and ecosystems; we example might highlight the issue. Imagine a plan to test a missile by firing it at Would this be wrong considered in itself? On the ethic which attributes 'rights' to according to this ethic that is a case which must be made. Like the life-centred moral significance and attribute comparatively minimal moral significance to gradations of moral significance, or it may fall somewhere in between.

5 Ecological holism

It was earlier said that any ethic which would guide us in our treatment of the natural environment is, in the most general sense, an environmental ethic. The term 'environmental ethic' sometines has narrower uses. It is sometimes used to indicate an ethic which counts as morally considerable individuals other than humans and which provides some solid purchase for the moral demands of

can only be saved by simplifying an ecosystem, then some kind of trade-off or maintenance. Where these conflict, for example in some odd case where animals we would be enjoined to consider the interests of animals and the goal of biospheric ethics described. If, for instance, it was combined with the animal-centred ethic animals, including humans, as well as the plants, rocks, molecules etc. which balancing would be required biosphere. Also, it is possible to combine ecological holism with any of the other as a result of the nature of the mechanisms which maintain ecosystems and the ethic and the everything ethic are likely to sanction similar environmental policies not entail that it differs from all of them in its policy implications. The life-centred many have hitherto regarded as morally considerable are not. Note that, although extremely complex ones. If so, the holism amounts to the view that individuals constitute these large systems are not morally considerable; they matter only the biosphere as a whole and the large ecosystems which constitute it. Individual ethic, ecological holism, presumably because they think that only such an ethic animal-centred ethic less clearly so. However, some reserve the term for a specific environmentalists. A life-centred ethic is an environmental ethic in this sense, an maintaining the biosphere or ecosystems. It is a moot point whether ecological even for the species itself but because the extinction runs counter to the goal of cott. 1979.) Ecological holism counts two kinds of things as morally considerable; provides morally satisfactory protection for the natural environment. (See Callithe principles of ecological holism differ from those of the other ethics, this does However, it is possible to view the biosphere and ecosystems as individuals, albeit their focus individuals, and 'holism' might be thought to signal a different focus. holism should be thought to differ structurally from the other ethics. They had as We should worry not because of what this implies for its individual members or they belong. Why should we worry if some species is caused to become extinct? insofar as they contribute to the maintenance of the significant whole to which

ii Justifying an environmental ethic

It is not too difficult to appreciate what is compelling about the claim that humans are morally considerable. Most obviously they are considerable because they have interests which can be harmed or advanced. These interests are based on capacities which humans have: for example, the capacity to experience pain and pleasure, the capacity for rational choice, the capacity for free action. Less obviously, they are considerable because of properties or characteristics which they possess which do not give rise to interests, to things in which they themselves have a stake. For example, it might be argued that anything which has the property of being a complex living thing is, to that extent, intrinsically valuable, which is to say that there is a moral reason for preserving it for its own sake independently of whatever uses it serves.

What is compelling about a human-centred ethic pushes us toward an animal-centred ethic, possibly further. (This argument is developed by Lori Gruen in Article 30, ANIMALS.) Consistency and the avoidance of arbitrary moral distinctions fuel

some property which gives them intrinsic value. morally considerable not because they have interests but because they possess might think make them morally considerable. This, too, is a case where they are example, non-humans might have aesthetic properties such as beauty, which we about non-humans we might notice new reasons for moral considerability; for the shift from a human-centred ethic to an animal-centred ethic. Also, in thinking

centred to a life-centred ethic. by some to stop the drift, by providing a non-arbitrary cut-off, from an animaltowards them is not something which they experience. Similar points can be made about the biosphere and about ecosystems. It is this difference which is thought it withers and dies from want of water; it would matter to a kangaroo. While plants have natural goals, they have no attitude to those goals and progress of view from which they experience the world. It doesn't matter to the tree that that they have interests in any morally relevant sense. Plants do not have a point have a good in this sense but this is obviously not enough to ground the claim it exemplifies, by what it is for it to be a flourishing member of its kind. Plants good is determined by the kind of thing it is, by the type of biological organization its continued flourishing and harmed when it is deprived of nutrients. A plant's own; for example, that the good of a tree is promoted by sufficient nutrients for which can be harmed or promoted. Some claim that plants have a good of their concept of interest is often explained in terms of a thing having a good of its own interests, such as an interest in continued existence, then perhaps they do. The centred ethics? If plants (and ecosystems or the biosphere) can be said to have Do the reasons advanced in support of animal-centred ethics also support life-

properties appealed to are intrinsically valuable. if animals are morally considerable in virtue of possessing them, then so too are plants. The key to defending thus a life-centred ethic is to establish that the did not have to do with interests, in virtue of which humans and non-humans thing and the property of being beautiful. Plants can possess these properties and are morally considerable. These concerned the property of being a complex living they are not morally considerable. Recall that there were reasons suggested, which Even if it is denied that plants have interests, however, it does not follow that

siderable. The fact that they are morally considerable would provide an ethical reason for opposing mining. Or again, we might judge that one reason we think which exhibit complexity and which, given the suggestion, are morally conecosystems count as living things. If they do not then they are non-living things system, patterns of weathering on a cliff and a snowflake. The relevance of exhibiting certain relationships with one another. If it is organizational complexity this suggestion to the Kakadu case depends, among other things, on whether will be morally considerable; for example, the bodies which make up the solar per se that makes something morally considerable, then some non-living things being a complex system, can be exemplified by collections of non-living things pushes us toward an everything ethic? The property of being a complex living thing cannot be exemplified by rocks etc. but a related property, namely that of Is there anything that might be said in defence of a life-centred ethic which

> siderability is contentious; however, it is strongly supported by some, for example considerable. The claim that exemplifying beauty is a basis for moral conconsiderability to living things, then at least some non-living things are morally some cases beauty might be exemplified by a thing's more general, external beauty rather than beauty itself which is morally significant. Rolston, 1988. Those who oppose it typically urge that it is the appreciation of can be beautiful, so, if exemplification of beauty is a basis for attributing moral Now some non-living things such as boulders, dunes, lifeless moons and icebergs might be exemplified in the more specific detail of a thing's biological functioning. features, as in the case of tigers, whales, orchids and proteas. In addition, beauty that living things are morally considerable is because they exemplify beauty. In

considered, for resisting policies which would lead to disruption of ecosystems. with a reason, in addition to any we might derive from the other ethics we have accept that they are determinants of moral considerability, then we are provided are properties quintessentially exemplified by ecosystems and the biosphere. If we properties, if deemed determinants of moral considerability, move us in the direcother candidate properties: for example, the property of exhibiting diversity of although perhaps not all things considered wrong, to destroy them. There are and culture. Rocks are natural objects and so on this view it would be wrong, natural object; that is, an object which is not the product of human technology ethics unjustifiably ignore. One such feature might be the property of being a showing that there are new morally relevant features which the more restrictive a rigorous application of it leads us to the next kind of ethic. Another way is by by finding a determinant of moral considerability in that ethic and showing that tion of ecological holism or in the direction of a mixed ethic. This is because they harmony and the property of being a self-regulating system. This last group of parts, the property of functional integration of parts, the property of exhibiting So, one way in which the move from one ethic to the next is accomplished is

a complaint about the morality of this. Some people think that even in the modified and later replaced with synthetic rock. Not even the life-centred ethic allows for animals will be harmed as a consequence and no ecosystem will be disrupted of artificial environment will be indistinguishable, except by laboratory analysis, uncompensated loss of value. The mining company promises to reconstruct the Imagine a modified case in which only a rock outcrop, devoid of life, is removed Isn't it also morally suspect because it replaces the natural with the artificial? to some to be the only thing morally amiss with the mining company's proposal permits a complaint about the killing of living trees. However, this does not seem an environmentalist rejoinder. The life-centred ethic does to the extent that it Neither the human-centred ethic nor the animal-centred ethic provides space for from what was originally there. It will be exactly as appealing to look at, no outcrop from synthetic parts and to replace the trees with plastic models. This bit outcrop and of the outcrop itself. Environmentalists protest that this involves an that a certain mine requires the destruction of a group of trees on a rocky are in fact such? Consider naturalness and exhibiting diversity of parts. Imagine How do we decide whether candidate determinants of moral considerability

considerable but things which are both natural and complex. other property, for instance complexity. So, it isn't natural items which are morally might be a conditional determinant: that is, it might require the presence of some erability. There is another possibility to which we should be alert. Naturalness have no basis for the view that naturalness is a determinant of moral considwill result in ecosystemic disruption. If these are the sources of our belief, then we outcrop because we cannot distance ourselves from the thought that it will be detectably different or from the belief that it will harm animal interests or that it is possible that we think that there is something dubious about the artificial Pierce, 1986, 142-50.) It is difficult to be entirely sure about the source of the belief, if we have it, that naturalness is a determinant of moral considerability. It which includes within its scope all natural items. (See Elliot, in VanDeVeer and this thought is persistent it provides support for a variant of an everything ethic case the mining company does something to which a moral minus attaches. If

one and possibly beyond a life-centred one as well. environmental ethic which reaches beyond either a human or animal-centred as reasons for avoiding environmental despoliation provides the basis for an might assist us in seeing it as a thing of beauty. Counting these kinds of reasons ecological system: knowing how the parts work in concert to maintain the whole rainforest, may well depend on whether we have an understanding of it as an paredness, by the way, to attribute aesthetic properties, such as beauty, to the possessed by the rainforest but not possessed by the cultivated area. Our prereasons that might also be given; for example, that there are aesthetic properties diversity; it is constituted in a more complex, richer fashion. There are other saved. Moreover, one reason that will be given is that the rainforest exhibits more would say that, considering them just in themselves, the rainforest should be attempted this, many would say that the rainforest is of more value. Imagine, then, that only one of these areas could be saved from massive devastation. Many during the clearing or the thought that aboriginal peoples were displaced. Having long-term human interests, the thought that wild animals would have suffered certain thoughts; for example, the thought that clearing rainforests is contrary to vation. Which is more valuable in itself? Again we must distance ourselves from rainforest with an area which has been cleared of rainforest and is under cultimoral considerability? Here we might compare an area which is covered with Consider the property of having a diversity of parts. Is this a determinant of

say that humans should always come first nor is it correct to say that preserving no decisive calculus available to assist us in these judgements. It is not correct to important they are and then make an all-things-considered judgement. There is must carefully enumerate the relevant moral considerations, ask ourselves how where the different moral considerations pull in different directions. Here we long-term human interests. Sometimes there will be cases of genuine conflict Often there are. Moreover, the modification of ecosystems is often contrary to step is to ask whether there are alternative ways of satisfying human interests. considerable, how do we weigh this against human (or other) interests? A first Even if we accept, for example, that the ecosystems of Kakadu are morally

> an ecosystem is always more important than protecting any set of human interests. policy is clear enough. Nevertheless there will be cases, such as Kakadu, where the morally appropriate

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