one afraid of the dark.

ould readily prove equally ritical. Moreover, while the var and its direct destruction yould probably be confined o northern mid-latitudes, the roader-scale repercussions
rould likely extend much
urther, afflicting most if not
Ill nations of the global comerm environmental injury, specially in terms of our apacity to feed ourselves. tarvation, as many ultimate asualties as the immediate var itself, while the longearned that nuclear war, ven on limited scale, would ause, through freezing and ring a lengthy spell of xtreme darkness and cold. he phenomenon of a nuclear winter" could well What hope, then, that the their corrclusion has

for retaliation were eliminated, the climatic and
environmental dislocations
would quickly overtake the
so-called victor as much as
the vanquished. In short, a
nuclear solution is no solution of any sort.
In spite of this, we still an end to civilisation in the northern hemisphere, if not the rough out the world (Futures, November 3, 1983).

Equally to the point, the prospect of a nuclear winter means that if one side were to launch a pre-emptive strike against an adversary, with such success that all capacity

capacity

already

hear rumblings from the Pentagon to the effect that the United States believes it must be able to "prevail" in a protracted nuclear war. Ditto from military stratein Moscow. for Britain, the governamounts to several hundred

Just as a nuclear winter in the northern hemisphere would affect bystander nations as well as combatant parties, so its environmental impact could readily and rapidly spread to the tropics, before reaching deep into the southern hemisphere. Thus it could ultimately affect many ideological differences bet-ween the super power blocs, comprising a minority of nations? distant nations which seek to remain neutral in is to suffer profoundly, does this not cast fresh light on If the community of nations confrontation between and the Warsaw Pact the poli-

piles above what we now realise was the nuclear winter threshold, each proclaimed its capacity to destroy the other beyond before the early 1960s, i.e. before the United States and before the Union had expanded their nuclear stock-

nuclear strictly logies and imperfect To these imperfect techno-

moreover,

of security.
Since a nuclear strike mu Since a nuclear strike mu since a nuclear strike mu now be deemed suicidal, a does not necessarily enhant a nation's overall long-ter security; rather, it can serve security; rather, it can serve security of the community.

catastrophe for the British people. Civil defence planners talk about several million survivors starting to rebuild their shattered society within a matter of through an attack could hardly survive the environmental aftermath. Furthermore, those remnant communities that may emerge The nuclear winter scenario, by contrast, postulates that those who come lates that those who contracts Involving a broader perspective still, a nuclear winter looks capable of destroying much of the planetary ecosystem as we now know it, and as it has evolved since the first flickerings of

marily and beyond doubt that a nuclear war cannot be won or even survived in any

threat of a

errible a nuclear outbreak would be Engo, we must lever allow it to happen; ergo, we must beef up our leterrent as the soundest neans to avoid apocalyse. Yet this argument should now give us more pause than ever, to the extent that the nuclear winter introduces a

vinter merely confirms how

ment considers that nuclear war, while an appalling affair for these crowded islands,

would be less than a terminal

for the British

The deterrent-niks assert

ay proponents of deterrent ome observers. No chance, hreat of a nuclear winter will persuade us to achieve t least a nwclear freeze?

Dr Norman Myers, environmental consulta passed in Oxford, was one 20 scientists who contribut to a study of the long-term nuclear war, published in thibutors included Carl Sage fributors included and Robert M. May.

the politicians hot got through:

the message has Norman Myers, noon. But, argue darken the skies

summer sun and

conjd cancel the

nuclear exchang

even a limited demonstrated th Last year scienti

If the nuclear wint scenario fosters this ful damental shift in our thin ing, we may find a way break out of the vicio circle promoted by bo sides, to the effect that "V would really like to te escalate," I we simply has to escalate."

advance — however hard is to achieve — towar cooperative endeavour. Nuclear war and nations.

Nuclear war and nation security can no longer be pe ceived as zero-sum game where the rule is "What where the rule is "What where to must lose" (as vice-versa.) We shall all all vice-versa.) We shall all invelier to losers together vice-versa. It is increasing invalid, then to divor national security from intensational security. This post national security and intensational security and it is increasing to confront the property of the statement, and it is successful to the security of the security of the security from intensational security.

stances, moreover, a conflict entailing a mere 100 megatons, out of roughly 13,000 available in nuclear inventories, could well prove enough to bring on a nuclear winter. So a tiny fraction of nuclear arsenals imposes a "threshold of risk." Britain's supposing there were any-thing to be hunted and gath-ered beyond insects and for several growing seasons at best. Which of us would want to try his hand at a hunter-gatherer lifestyle from the nuclear winter would look out on landscapes that would scarcely permit even rudimentary agriculture circum-conflict tropical forests with their extreme ecological complexity and biological richness, could all too quickly become degraded beyond recovery with all that that entails for long-term recovery of the the indefinite future, not postulate a further significant context within which we should view the relatively transient disputes of a minority of humankind? long-term recovery of the planet as a habitat for human-kind. Do these considerations, of the remote past and the indifficient forms. life 3.6 billion years ago. Whole biomes, such as the

pendent studies — that a nuclear winter would mean

several

gnificant sense. Scientists at Washington conference last

has proven a stable situation, insofar as we have not yet seen missiles falling out of the sky. Their stance would be more acceptable if there were not a continued escalation of nuclear stockpiles, with ever-more sophisticated weaponry and their potentially destabilising influence. Political leaders assert they Of course the deterrent advocates can still insist that "a nuclear balance of terror"

are doing their best to nego-tiate reductions, yet the record shows a virtually unbroken buildup. To the extent that deterrence is a extent that deterrence is a valid concept, it can be accomplished through just a handful of megatons: even Soviets, produce a constant series of errors and false puters, vastly more sophisti-cated than those of the produce a constant

all of us, politicians and public alike — are implicitly asserting that we have full confidence in the commandand - control capacities of weaponry systems and in whatever leaders come along, in both present and prospective nuclear nations (who would want to bet on Colonel By going along with a situation of nuclear arsenals above threshold level, we

winter surely reinforces the reorientation of nuclear nego-tiations. The risk of nuclear In short, we need a radical

deterrent, why not a Nato declaration of no first use? (Of course military planners insist that a first strike would be a low-level affair, as part of a "flexible response" strategy. But for downs, communications maldowns, communications malfunctions, panic, fear, the massive pressure for instantaneous decisions — it is highly unlikely that a smallscale conflict could be cona variety of reasons - control-and-command break-

posture — meaning that all futures will depend on correct functioning of Soviet computers. Yet Nato's computers. into a corner. However much we assert that we have no such intention, the Soviets dangerous and paranoid foe feeling it is being backed tained.) adopt a launch-on-warning pose themselves obliged may feel less than assured, and they may eventually sup-By retaining the option of first strike, Nato leaves a

threshold level until the year 2020. A third proposal, "deep outs," anticipates an opening reduction of arsenals by half, followed by further phased cutbacks. But this prospect is mistic negotiation prognoses, of bringing us below the threshold level until at least the end of the century. cut-back of nuclear inven-tories at a rate of perhaps five per cent per year? Yet not considered capable, according to the more optisently envisaged would not bring inventories below the even this advance as pre-sently envisaged would not down," being a systematic

deployment of new weapon systems with their destabilisting influence. But a nuclear freeze should not serve to eliminate the threat of a nuclear winter, whether triggered through planned conflict or mere miscalculation, unless it were followed by untested options available, the one with most immediate prospect is a nuclear freeze, halting the ever-growing take a nuclear disarmament? Let us take a quick look at some risks of a fresh approach massive reductions of stock initiatives.

we are consigning the future of, our global civilisation, indeed of our planetary habitat. In short, do the risks nuclear winter not exceed

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