

Christian Barnes

A talk in two parts:
Dial 999 & Our lawnmower is
called Lucy

Christian Barnes to Wigan
Borough Partnership
Convention 2007



Dial 999







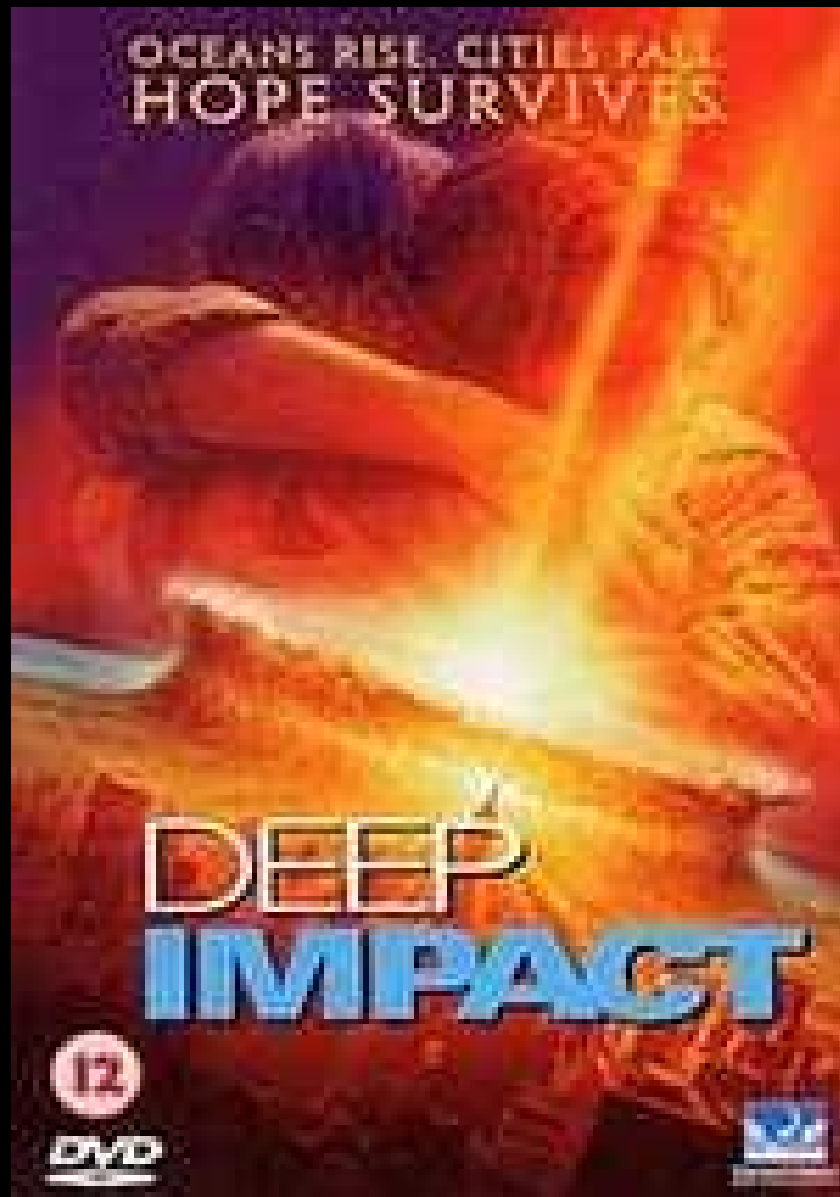


“A single death is a tragedy, a
million deaths is a statistic”

Stalin









Apocalypse response team!
(A technological hotfix)

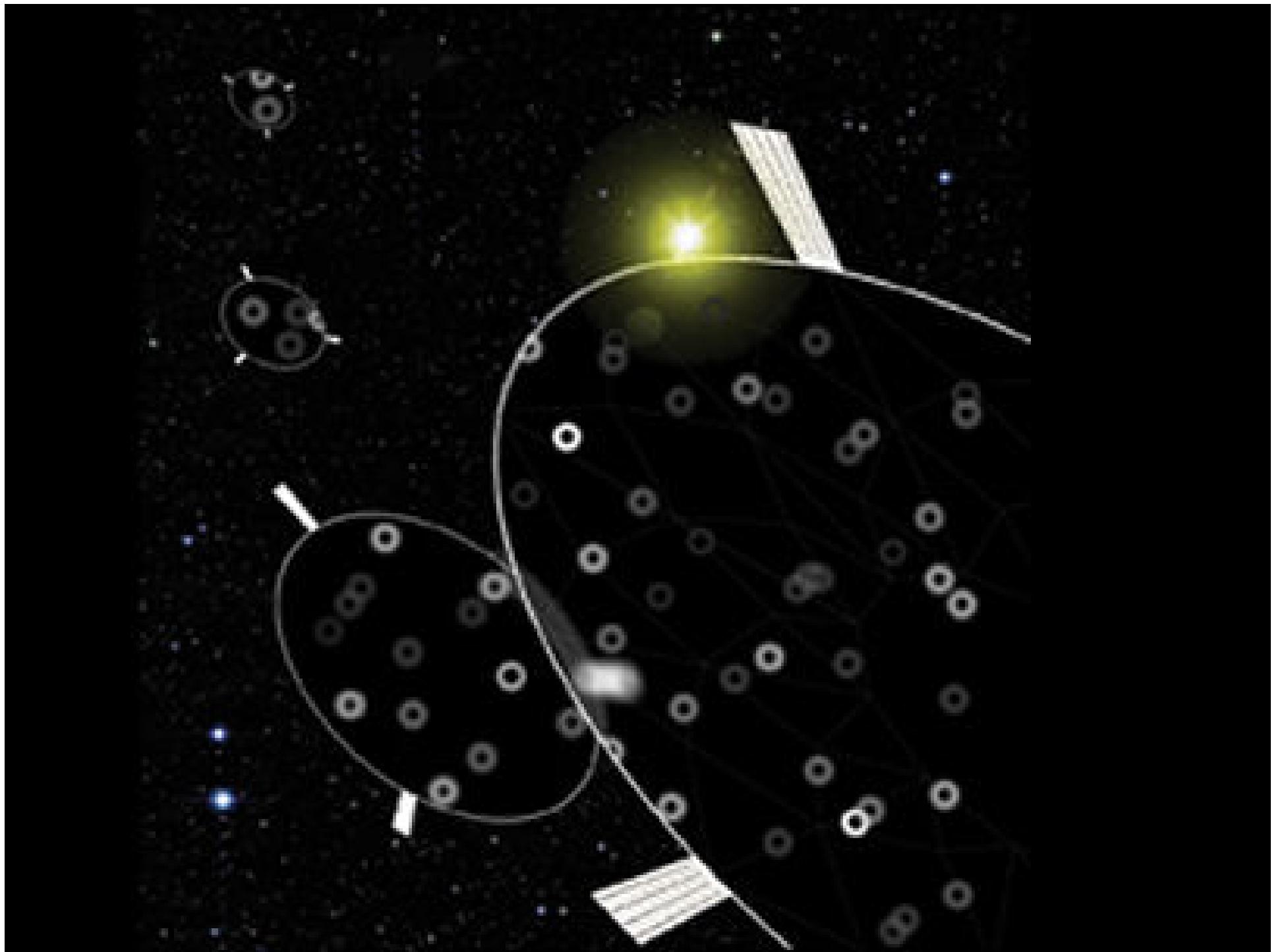
Feasibility of cooling the Earth with a cloud of small spacecraft near the inner Lagrange point (L1)

(geoengineering | global warming | space sunshade)

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Contributed by Roger Angel, September 18, 2006

If it were to become apparent that dangerous changes in global climate were inevitable, despite greenhouse gas controls, active methods to cool the Earth on an emergency basis might be desirable. The concept considered here is to block 1.8% of the solar flux with a space sunshade orbited near the inner Lagrange point (L1), in-line between the Earth and sun. Following the work of J. Early [Early, JT (1989) *J Br Interplanet Soc* 42:567-569], transparent material would be used to deflect the sunlight, rather than to absorb it, to minimize the shift in balance out from L1 caused by radiation pressure. Three advances aimed at practical implementation are presented. First is an optical design for a very thin refractive screen with low reflectivity, leading to a total sunshade mass of 20 million tons. Second is a concept aimed at reducing transportation cost to \$50/kg by using electromagnetic acceleration to escape Earth's gravity, followed by ion propulsion. Third is an implementation of the sunshade as a cloud of many spacecraft, autonomously stabilized by modulating solar radiation pressure. These meter-sized "flyers" would be assembled completely before launch, avoiding any need for construction or unfolding in space. They would weigh a gram each, be launched in stacks of 800,000, and remain for a projected lifetime of 50 years within a 100,000-km-long cloud. The concept builds on existing technologies. It seems feasible that it could be developed and deployed in 25 years at a cost of a few trillion dollars, <0.5% of world gross domestic product (GDP) over that time.



You can't 'approach' sustainability—
Sustainability is a gold standard
— something either is sustainable or
it's not

Political and economic failure



The philosophical challenge of the sustainability agenda is to seek a mechanism for the management and delivery of decline

Our lawnmower is called Lucy





What did Peter Cook call the
countryside?







9.5. 1881 - 12.4. 1881 - 1881

11 Oct 1881



July 3rd 1854

