

Re: Replicators

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- *From:* BradGuth <bradguth@xxxxxxxxxx>
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On Jul 4, 4:55 am, Willie.Moo...@xxxxxxxxxx wrote:

On Jul 4, 1:30 am, BradGuth <bradg...@xxxxxxxxxx> wrote:

Artificially extended range or scope is technically doable for accommodating our frail DNA.

That's why the golden age of interplanetary exploration for humans will await the development of space colony sized vehicles, capable of withstanding the radiation.

I agree, that a robust spacecraft/shuttle with an extra surround of 10+ meters worth of water, beer or whatever else might come in handy (including LH2 or just good old h2o2) should do the trick.

What upper/lower limits are you suggesting possible?

That depends on many details we do not know at present. Consider locusts, or field mice, or an ant colony, or an algae mat. Under typical conditions they grow into a stable sized aggregate of individuals – with their reproductive and maintenance activities in balance with their available resources. Yet, on occasion – under the right conditions, any of these creatures can come to dominate the landscape and spread far and wide – then there is the inevitable collapse – with a lot of widely spread individuals – getting by in widely spread colonies.

Stick with the immortal cockroach. If they survive than perhaps eventually our frail DNA can become as robust and as rad-hard as that of the cockroach.

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At the limit, with what we know about physics and technology, we'll reach a technological singularity in about 32 years – if our technical culture survives that long. Somewhere around that time – EVERYTHING that can be done, WILL be done – technologically.

That's a whole lot quicker than I would have thought possible, especially the way so much of our best talents and limited resources has been going as fast as it can into the nearest toilet.

If we manage our affairs rightly – we could have humans with their machines, spread throughout the larger cosmos – that encompasses all the time lines that are accessible by human technology with the first portal being constructed before 2035 and Earth denuded of nearly all humans by 2050. This will be the best case scenario. In this case, no more than 20 billion humans, with about 40 billion ETIs that we sweep up along the way – will be spread among 10,000 billion billion stars in this universe – with some exchange between other universes – before they all settle down in 'hot spots' throughout the cosmos.

Worst case scenario?

We'll have to survive * WWIII * before those faith-based cosmic wars of the universes.

Two dozen Russian loose nukes are set off by terrorists throughout the Western World, China immediately pulls the plug on the US economy, and demands all raw materials suppliers supply their industrial infrastructure first until the emergency passes. The Western economies go into a free fall. Asian opinion is that the dominance of the West is over. Pakistan suffering a retaliatory strike from Israel (See below) uses this opportunity to attack India with nuclear weapons, and India retaliates. Meanwhile, North Korea uses its cache of nuclear weapons to decimate South Korea. China invades the peninsula to restore order. Militarized gangs in the USA and Europe – using Chinese firearms have defacto control of all major cities in the West. At the outbreak of terror attacks, Israel launched a series of pre-emptive strikes against all muslim centers, and covertly waged advanced biological warfare against its own muslim population with genetically engineered viruses. China covertly releases similar viruses over US and European cities, viruses that are far more deadly to Caucasian populations than Occidental.

There's always ship loads of our commercial DDT that'll make all

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oceans into dead zones, and those pesky little amounts of VX that'll nicely finish off most of whomever still kicking.

Japan protests China's hijacking of the world's commodity markets, and China invades Japan until the crisis passes. In response, America attacks China, and China retaliates in kind.

Of the 6.6 billion humans alive before the first attacks, 5.2 billion have died by the following afternoon. A week later, another 1.0 billion will have died in the affected regions.

This will have been the worst week in human history.

By mid afternoon the week following the terror attacks – Australia, South Africa, Brazil and Chile are now the centers of human populations. South Africa with its coal to liquid technology, and Brazil with its Ethanol technology, will be the new energy centers of the world. Australia with its coal and iron will be expanding its capacity.

I think Antarctica is going to become invaluable real estate, especially with most of its snow and ice gone by the end of this century, although a perfectly ice free Greenland might also be another good enough second choice unless the craters caused by those nuclear bombings are too frequent and too deep and irradiated to do much of anything with.

South Africa announces that it has a handful of nuclear weapons and imposes a global ban on further hostilities. The surviving 500 million humans will at best have been put back to 1950s level of technology and income – and it will be in decline as the biosphere absorbs the massive shock of nuclear warfare. As radiation levels rise in the Southern Hemisphere, and farm productivity falls, and birth defects rise – living standards gradually erode over the next 600 years – until post-technical human tribes roam the most hospitable regions of the Southern Hemisphere.

Highly modified post-technical humans will rise to the 19th century level of technology in the following 5,000 years – as the ecology recovers and adapts – and a variety of post-human technical species spread again but the easily accessible resources that our 19th century forebears found so abundantly on Earth – will have been long gone – and the technical know-how available to these post-human descendants – will be insufficient to make use of the resource remnants 20th and early 21st century humans left.

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Along this path, the path toward technological singularity is broken – and humans are irradiated out of existence, while their post-technological off-spring, struggle along with draft animals and wood and rope – bows and arrows – and so forth.

Total number of post-human technological primates – will likely stabilize at 50 million – depending on details – among a handful of distinct species – non of them quite human at a level of 18th and 19th century humans – building at most an ancient Roman or Greek infrastructure – with rare flashes of 20th century details – technological fetishes some will call it – all on the back of slave labor.

In this world, there may exist some true wizards – who exercise the power of ancient lost technology – but mostly for the amusement of Kings, and to awe the faithful..

Our perpetual faith-based shock and awe will always be No.1

Too bad those way smarter than us ETs are just smart enough to keeping their safe distance until there's no fight left in those few and far between humans.

– Brad Guth Brad_Guth Brad.Guth BradGuth

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