# 1AC

## Asteroid Collision

#### Current efforts to monitor asteroids are insufficient—dangerous objects are still undiscovered

NRC 2010 (National Research Council Committee to Review Near-Earth Object Surveys and Hazard Mitigation Strategies, “Defending Planet Earth: Near-Earth Object Surveys and Hazard Mitigation Strategies,” http://www.nap.edu/catalog.php?record\_id=12842)

Ground-based telescopes ….especially imminent impactors.

**Asteroid impact is 100% certain and could occur at any time**

**VERSCHUUR 1996** (Gerrit, Adjunct Prof of Physics at U of Memphis, Impact: the Threat of Comets and Asteroids, p. 158)

In the past few years, the ……… will determine our fate.

High risk of a strike – newest research proves

Easterbrook 2008 (Gregg, Editor of The Atlantic and The New Republic and Sr. Fellow at Brookings, “The Sky is Falling,” June, <http://www.theatlantic.com/doc/200806/asteroids>)

Breakthrough ideas …….. human race is riding on the plane.”

**This is the only true extinction risk**

**McGUIRE 2002** (Bill, Professor of Geohazards at University College London and is one of Britain's leading volcanologists, A Guide to the End of the World, p. 173-174)

Probably the only piece of ………. Maybe now is the right time to start.

**Short term focus masks longer term trends and makes extinction inevitable – turns its own ends.**

**Tonn 04** – (2004, Bruce, PhD, Urban and Regional Planning, Northwestern University, Program Leader, ISSE Environmental Sustainability, Professor, UT's Department of Political Science, Director, UT's Urban and Regional Planning Program, Senior Researcher, Oak Ridge National Laboratory, “Integrated 1000-year planning,” Futures 36 (2004) 91–108, elsevier, DH)

Why tackle 1000 years ………. states-of-the-world.

**Nothing can outweigh extinction even if the risk is miniscule**

**MATHENY 2007** (Jason, Department of Health Policy and Management, Bloomberg School of Public Health, Johns Hopkins University, “Reducing the Risk of Human Extinction,” Risk Analysis, Vol 27, No 5)

We may be poorly equipped……. .19 To decide whether this is so requires more discussion of the methodological problems mentioned here, as well as research on the extinction risks we face and the costs of mitigating them.20

**Asteroids shatter standard risk analysis—vote Aff no matter how low the probability of our advantage is**

**POSNER 2004** (Richard, US Court of Appeals judge and Senior Lecturer at the University of Chicago Law School, Catastrophe: Risk and Response 249-250)

Even if our insouciant reaction …… cost in higher taxes or otherwise to reduce the risk.

**Any solvency deficit to a counterplan means you vote Aff—constant asteroid risk means that we only have to be wrong a single time and the human species will end**

**BARBEE 2009** (4/1, Brent W., BS, Aerospace Engineering degree from UT Austin; MS in Engineering from the Department of Aerospace Engineering and Engineering Mechanics at the University of Texas, Austin specializing in Astrodynamics and Spacecraft Mission Design, currently working as an Aerospace Engineer and Planetary Defense Scientist with the Emergent Space Technologies company in Greenbelt, Maryland, teaches graduate Astrodynamics in the Department of Aerospace Engineering at The University of Maryland, College Park, “Planetary Defense”, [http://www.airpower.au.af.mil/apjinternational//apj-s/2009/1tri09/barbeeeng.htm](http://www.airpower.au.af.mil/apjinternational/apj-s/2009/1tri09/barbeeeng.htm))//DT

It is generally accepted ………… for defense against NEOs.

**Only asteroid strikes cause immediate compound environmental crises—nothing else comes close**

**CHAPMAN 04** (Senior Scientist at the Southwest Research Institute, Dept. of Space Studies, “the Hazard of near-Earth asteroid impacts on earth”, Earth and Planetary Science Letters 222)

I have argued [59] that ……….. having left traces in the fossil record.

#### Their “low probability” logic is irrelevant and prevents action to stop asteroids

**Brownfield ‘4**  (Roger – presented at the Planetary Defense Conference: Protecting Earth from Asteroids, Orange County, California, Feb. 23-26, 2004 -- “A Million Miles a Day…” – Brownsfield is part of the Gaiashiled project – available at: http://www.aiaa.org/content.cfm?pageid=406&gTable=Paper&gID=17092)

Once upon a time there was a Big Bang... Cause/Effect ………….. random inevitable expectation... and its attendant fear.

Nuclear war doesn’t cause extinction

Nyquist, 1999

[J.R., “Is Nuclear War Survivable?” May 20, WorldNetDaily.com, http://www.antipas.org/protected\_files/news/world/nuclear\_war.html]

|  |
| --- |
|  |

As I write about Russia's nuclear ………… produce few (if any) fallout casualties.

Even if nuclear winter theory is correct it assumes an impact bigger than theirs

**Ball 2006** (Desmond, prof at the Strategic and Defense Studies Centre at the Australian National Univ, “The Probabilities of On the Beach: Assessing ‘Armageddon Scenarios’ in the 21st Century,” Working Paper No. 401, Strategic and Defence Studies Centre at The Australian National University, <http://rspas.anu.edu.au/papers/sdsc/wp/wp_sdsc_401.pdf>)

In the early 1980s, various ……… flammable about 50 percent of the time’.6

## Accidental War

**Space-based detection is key to prevent nuclear war from small asteroid strikes**

**DAVID 2002** (Leonard, Senior Space Writer, Space.com, “First Strike or Asteroid Impact?” June 6, http://abob.libs.uga.edu/bobk/ccc/cc060702.html)

Military strategists and space scientists that wonder ……. detect small asteroids, he said

**That would kill billions**

**FORROW ET AL 1998** (Lachlan Forrow, Bruce G Blair, Ira Helfand, George Lewis, et al, Author Affiliation: From the Division of Gencral Medicine and Primary Care, Beth Israel Deaconess Medical Center and Harvard Medical School, (L.F.); the Brookings Institution, Washington, D.C. (B.G.B.); Physicians for Social Responsibility, (I.H.); Massachusetts Institute of Technology, (G.L., TP); the Department of Epidemiology and Social Medicine, Montefiore Medical Center and Albert Einstein College of Medicine, (VS.); Barry S. Levy Associates and Tufts University School of Medicine, (B.S.L.); the Department of Radiology and the Center for International Security and Arms Control, Stanford University, (H.A.); and Mount Sinai School of Medicine; New England Journal of Medicine, April 30)

A missile launch activated by ………. in billions of direct and indirect casualties worldwide.4

**Major war is over – not even the recession can cause conflict**

**Fetweiss 10/3/11** - assistant professor of political science at Tulane University (Christopher J., “ The World is Actually Safer than It Used to Be ... And It Keeps Getting Safer ” <http://hnn.us/articles/10-3-11/the-world-is-actually-safer.html>)

While global anxiety rises ……… even if it may not always appear to be so.

#### Economics and nuclear deterrence check war

**Deudney** 200**9** - professor of political science at John Hopkins et al (Daniel, and John Ikenberry, professor of international affairs at Princeton, Foreign Affairs, http://www.foreignaffairs.com/articles/63721/daniel-deudney-and-g-john-ikenberry/the-myth-of-the-autocratic-revival)

This bleak outlook is based ……… the autocratic revivalists acknowledge.

Taboo is too strong – all of their scenarios are wrong

George Perkovich, International Commission on Nuclear Non-proliferation and Disarmament, May 2009, “Extended Deterrence On The Way To A Nuclear Free World,” International Commission on Nuclear Non-proliferation and Disarmament

The reality today is …….. against Taiwan first.

#### Current trends aren’t reversible

Christopher J **Fettweis**, National Security Decision Making Department, US Naval War College, December 0**6**, “A Revolution in International Relation Theory: Or, What If Mueller Is Right?”, International Studies Review, Volume 8, Issue 4, Wiley, umn-rks

However, one need ……… believe that it could not**.**

**Specificity doesn’t save their scenarios**

**YUDKOWSKY 2006** (Eliezer, Singularity Institute for Artificial Intelligence, “Cognitive biases potentially affecting judgment of global risks,” forthcoming in *Global Catastrophic Risks*, August 31)

The conjunction fallacy similarly …….. Rationally, of course, disjunctions are much more probable than are conjunctions.'

## Plan

**Plan: NASA should substantially increase its efforts to survey NEOs including both ground- and space-based tracking programs.**

## Solvency

Only space based detection solves long period comets and small asteroids – status quo fails

IAA 2009 (International Academy of Astronautics, “Dealing with the Threat To Earth From Asteroids and Comets,”

<http://iaaweb.org/iaa/Scientific%20Activity/Study%20Groups/SG%20Commission%203/sg35/sg35finalreport.pdf>)

Long-period comets (LPCs) tend ……… in the not too distant future.

**Advance warning solves nuclear deflection**

**BRANDENBURG 2011** (John E. Brandenburg is a plasma physicist at Orbital Technologies in Madison Wisconsin, working on space plasma technologies and space propulsion, “Preparing for a Future Asteroid Crisis,” Astronomical Review, May 16, http://astroreview.com/issue/2011/article/preparing-for-a-future-asteroid-crisis)

The detection of a large …….. foresee and prepare for one.

Only NASA can do the plan

FORTUNO 2007 (“H. R. 3737: To provide for National Science Foundation and National Aeronautics and Space Administration utilization of the Arecibo Observatory,” bill introduced Oct 3, http://www.spaceref.com/news/viewsr.html?pid=25609)

(1) Arecibo Observatory is ……… by near-Earth objects.

NASA is key and in charge – asteroid efforts include other branches of government

Hsu 2010 (October 22, Jeremy, “ White House adviser voices asteroid worries ” <http://www.msnbc.msn.com/id/39796926/ns/technology_and_science-space/>)

National emergency plans ……… represent a possible threat to Earth.

**Comets penetrate the crust**

**Marusek ‘7**

(James, nuclear physicist & engineer, American Institute of Aeronautics and Astronautics, “Comet and Asteroid Threat Impact Analysis,” <http://www.aero.org/conferences/planetarydefense/2007papers/P4-3--Marusek-Paper.pdf>)

The great majority of ……. occur with regularity in geological time.5

**Detection guarantees deflection - Incentives mean U.S. will invest all resources available**

**Barrett, 6** [Scott, Professor and Director of International Policy, School of Advanced International Studies, Johns Hopkins University and Distinguished Visiting Fellow, Center for the Study of Globalization, Yale University, “ SYMPOSIUM: CATASTROPHE: The Problem of Averting Global Catastrophe,” Winter, 2006 6 Chi. J. Int'l L. 527 ]

Protection of the Earth from ………. and these are thus particularly dangerous.)

**Physical investigation of potentially threatening asteroids is critical to response**

**NAC 2010** (“Report of the NASA Advisory Council Ad Hoc Task Force on Planetary Defense,” Oct 6, http://www.nss.org/resources/library/planetarydefense/2010-NASAAdvisoryCouncilOnPlanetaryDefense.pdf)

To guide development of effective ……… only characterization information available.

**Only the Venus-orbit solves by providing a comprehensive NEO survey**

Dunham & Genoca 2010 Using Venus for Locating Space Observatories to Discover Potentially Hazardous Asteroids D. W. Dunham1 and A. L. Genova2 1 Kinet X, Inc., 7913 Kara Ct., Greenbelt, Maryland 20770􏰄3016, USA 2 NASA Ames Research Center, Moffett Field, California 94035, USA Cosmic Research, 2010, Vol. 48, No. 5 pp. 424–429

CONCLUSIONS The IRAS, and now WISE ………. of images for the NEA searches.

Human exploration is outdated – robots are a better source of scientific information

Phillips 7/19/11 - planetary scientist at the SETI Institute and author of over a dozen books, including Space Exploration for Dummies (Cynthia, “ Robots vs. Humans: Should we cede solar system exploration to the robots? Do humans have a place beyond low Earth orbit? ” <http://scienceblogs.com/SETI/2011/07/robots_vs_humans_should_we_ced.php>)

The final mission of Space Shuttle ……….. rocks in your return capsule!

# 1NC

## 1NC

## Plan Flaw

#### Violation – the aff only says they have NASA act for NEO’s but the plan text doesn’t indicate what those abbreviations stand for

#### NASA has 45 meanings, multiple of which refer to space – insert this chart into the record of the debate

Acronym Finder, no date http://www.acronymfinder.com/NASA.html

Rank Abbr. Meaning

\*\*\*\*\*\* NASA National Auto Sport Association

\*\*\*\*\*\* NASA National Aeronautics and Space Administration (USA)

\*\*\*\*\*\* NASA National Aeronautics and Space Act

\*\*\*\*\* NASA North America South America

\*\*\*\*\* NASA Native American Student Association

\*\*\*\*\* NASA National Aeronautics and Space Agency

\*\*\*\*\* NASA Nahverkehrsservice Sachsen-Anhalt (German: Saxony-Anhalt local traffic service)

\*\*\*\* NASA North American Saxophone Alliance

\*\*\* NASA Natural Athlete Strength Association

\*\*\* NASA National Association of State Archaeologists

\*\*\* NASA National Association of Sentencing Advocates

\*\*\* NASA National Association of Students of Architecture (India)

\*\*\* NASA Network Affiliated Stations Alliance

\*\*\* NASA Non-Academic Staff Association (Canadian universities)

\*\*\* NASA Native American Student Affairs

\*\*\* NASA National Association of Signing Agents

\*\*\* NASA North Andover Soccer Association (Massachusetts)

\*\*\* NASA Nice And Safe Attitude (UK)

\*\* NASA North Atlanta Swim Association (Georgia)

\*\* NASA National Autograss Sports Association (UK)

\*\* NASA National Appliance Service Association (Kokomo, IN)

\*\* NASA North American Sankethi Association

\*\* NASA Non-Active Side Arm (oilfield)

\*\* NASA North Austin Soccer Association (Austin, TX)

\*\* NASA North American Shippers Association

\*\* NASA Newspaper Advertising Sales Association

\*\* NASA Northern Alberta Institute of Technology Academic Staff Association (Canada)

\*\* NASA New Advanced Search Agent

\*\* NASA National Advertising Sales Association

\*\* NASA National Association of Special Agents

\*\* NASA Nyenrode Alumni Summer Academy

\*\* NASA Nepal Animal Science Association

\* NASA Nursing Association of South Australia

\* NASA Northmemorial Amateur Sports Association (Canada)

\* NASA Normal Atmosphere Safety Approval

\* NASA National Acronym Slingers Association :-)

\* NASA National African Students Association, LLC (est. 2007)

\* NASA Norfolk and Suffolk Animal Trust (UK)

\* NASA Nucleo de Afirmacion del Saber Andino (Spanish: Core Andean Affirmation of Knowledge; Peru)

\* NASA Navy Alpine Snowsports Association (Australia)

\* NASA Never Access Space Again (slang)

\* NASA Never A Straight Answer

\* NASA Nauru Australian Soccer Association (est. 1973)

\* NASA National Academy of Sciences of Armenia

\* NASA National Association of Student Anthropologists (est. 1985)

#### NEO has 28 meanings, many of which can be surveyed – insert this chart into the record of the debate

Acronym Finder, no date http://www.acronymfinder.com/NEO.html

sort results: alphabetical | rank ?

Rank Abbr. Meaning

\*\*\*\*\*\* NEO Near Earth Object

\*\*\*\*\*\* NEO Northeast Ohio

\*\*\*\*\* NEO Neapolitan

\*\*\*\*\* NEO New Employee Orientation

\*\*\*\*\* NEO Neo-Adjuvant Chemotherapy

\*\*\*\* NEO New Economic Order

\*\*\*\* NEO Nelson Email Organizer

\*\*\*\* NEO New Engine Option (aviation)

\*\*\*\* NEO Noncombatant Evacuation Operation

\*\*\*\* NEO Named Executive Officer

\*\*\* NEO Network-Enabled Operations

\*\*\* NEO National Exchange Officer

\*\*\* NEO Noncombatant Evacuation Order

\*\*\* NEO New Earth Organization (Buck Rogers RPG)

\*\*\* NEO Near Earth Objects Information Center

\*\*\* NEO Nissan Ecology Oriented (engine technology)

\*\*\* NEO Nursing Education Opportunities (US HRSA)

\*\* NEO Nuclear Explosive Operations

\*\* NEO Non Ejaculatory Orgasm

\*\* NEO Northeast Oklahoma Railroad

\*\* NEO Network Element Object

\*\* NEO Northern Exposure Organics (Leaf Rapids, Manitoba, Canada)

\*\* NEO Network Enterprise Objects (Sun)

\* NEO NATO Eyes Only (NATO security classification)

\* NEO National Engineering Organization

\* NEO Northeast Orchestra

\* NEO NASA (National Aeronautics and Space Administration) Earth Observations (US NASA)

\* NEO Newly Elected Official (various organizations)

#### This matters – typo’s alter legislations mandate – the plan text as written doesn’t do anything

Fox News, 1-17-2009 (“Typo in Law Establishes Mandate to Lock Gun-Toting Train Passengers in Boxes”,**[http://www.foxnews.com/politics/2009/12/16/typo-law-establishes-mandate-lock-gun-toting-train-passengers-boxes/](http://www.foxnews.com/politics/2009/12/16/typo-law-establishes-mandate-lock-gun-toting-train-passengers-boxes/" \t "_blank)**)

It may sound absurd. ………. Obama the wrong, non-proofed version of the bill to sign.

## T-Staffed

#### Interpretation - Exploration means to expand human presence to space

**Logsdon, 9 –** professor of political science at George Washington, former director of the Space Policy Institute(John, “Fifty Years of Human Spaceflight *Why Is There Still a Controversy?,”* <http://ntrs.nasa.gov/archive/nasa/casi.ntrs.nasa.gov/20100025875_2010028362.pdf>)

Exploration as a Compelling Rationale

Many believe that the only sustainable rationale for a government-funded program of human spaceflight is to take the lead in exploring the solar system beyond low Earth orbit.20 The MIT white paper provides an insightful definition of exploration:

Exploration is a human activity, undertaken by certain cultures at certain times for particular reasons. It has components of national interest, scientific research, and technical innovation, but is defined by none of them. We define exploration as an expansion of the realm of human experience, bringing people into new places, situations, and environments, expanding and redefining what it means to be human. What is the role of Earth in human life? Is human life fundamentally tied to the earth, or could it survive without the planet?

Human presence, and its attendant risk, turns a spaceflight into a story that is compelling to large numbers of people. Exploration also has a moral dimension because it is in effect a cultural conversation on the nature and meaning of human life. Exploration by this definition can only be accomplished by direct human presence and may be deemed worthy of the risk of human life.21

In the wake of the 2003 *Columbia* accident that took the lives of seven astronauts and the report of the Columbia Accident Investigation Board that criticized the absence of a compelling mission for human spaceflight as “a failure of national leadership,”22 the United States, in January 2004, adopted a new policy to guide its human spaceflight activities. The policy directed NASA to “implement a sustained and affordable human and robotic program to explore the solar system and beyond” and to “extend human presence across the solar system, starting with a human return to the Moon by the year 2020, in preparation for human exploration of Mars and other destinations.”23 This policy seems totally consistent with the definition of exploration provided in the MIT white paper. The issue is whether such a policy and its implementation, focusing on human exploration beyond Earth orbit, can provide an adequate and sustainable justification for a continuing program of government-sponsored spaceflight that will make contributions that will outweigh the costs and risks involved to the “primary objectives” of national pride and prestige, and also to some of the several “secondary objectives.”

#### So does development

**Livingston 07** – former adjunct professor in the Graduate School of Business at Golden Gate University his doctoral dissertation was titled “Outer Space Commerce: Its History and Prospects” citing Eric Westling co-author of “The Space Elevator” and numerous papers on space tech and development [quals in card] (9/10/07, “This Week On The Space Show: Eric Westling”, <http://www.thespaceshow.com/guest.asp?q=298>)

\*\*we don’t endorse gendered language

Eric Westling is a science writer, pundit on science, technology, and economics. He is the co-author of “The Space Elevator” with Dr. Brad Edwards . In addition, Mr. Westling is retired and is a former Army officer and helicopter pilot, civilian Airline Transport Pilot (ATP), former consultant to many small companies regarding engineering, computer, and business troubleshooting. His most recent papers are on Solar Power Satellites, Economics of the Space Elevator, Energy and time lag in the 21st century , and Eric’s axioms (a list of principles of science, technology and economics). Mr. Westling stats that “Space Development is the only long term answer to the, just starting, energy shortage; which will otherwise continue until we have an economic collapse.” He believes that no-one is doing space development . Instead, **we have space technology, not development**. NASA has no TRL 10 – therefore no plans to develop space . **He defines space development as the rapid expansion of manned commercial projects in space**.

#### Violation - They aren’t a staffed project

#### That’s a voting issue

#### They explode limits because there’s dozens of weaponization, nanotech, satellite, and probe affirmatives that make it impossible to adequately research them all – makes it impossible to be neg

#### Kills neg ground because they can come up with abusive arguments like tech innovation doesn’t link to anything

## Ptx

#### Jackson-Vanik repeal is likely – Congressional opinions are starting to shift

Nesterov, 4-13-’12 (Vladmir, “US Congress increasingly realise Jackson-Vanik repeal need” http://www.strategic-culture.org/news/2012/04/13/us-congress-increasingly-realise-jackson-vanik-repeal-need.html)

The US Congress members ……… trade-related issues with the freedom of emigration from the USSR.

No Risk of turns – No Political support for asteroid detection or deflection of asteroids – only risk of backlash

DEARING 11**.**[Matthew, MA in Physics @ Cornell, former intern @ Argonne National Laboratory, “Protecting the planet requires heroes, money, and citizen scientists” Dynamic Patterns Research 4/12 -- http://research.dynamicpatterns.com/2011/04/12/protecting-the-planet-requires-heroes-money-and-citizen-scientists/]

There are many issues …… planet and of all civilization?

#### Political capital is key

Frolov, 3-23-‘12 (Vladimir, “Russia Profile Weekly Experts Panel: Will Russia Graduate From the Jackson-Vanik Amendment?” Russia Profile, Factiva)

During the post-Soviet period, all U.S. …….. signed a letter to Congress arguing that repealing Jackson-Vanik would be good for Russian democracy.

#### Repeal key to relations and the economy

Gvosdev, US Navy War College, 2-10-’12 (Nikolas, “The Realist Prism: Resetting the US-Russia Reset” World Politics Review, <http://www.worldpoliticsreview.com/articles/11441/the-realist-prism-resetting-the-u-s-russia-reset>)

After a period of ………..to the whole idea of the reset.

#### Russia relations solve nuclear war and every major impact

Allison, Director Belfer Center for Science and International Affairs, and Blackwill, Senior Fellow CFR, ’11 (Graham and Robert, October 30, “Ten Reasons Why Russia Still Matters” Politico, <http://www.cfr.org/russian-fed/ten-reasons-why-russia-still-matters/p26345>)

That central point is that Russia….. , or failure, in advancing our national interests.

#### US key to global economy – collapse causes global stagnation

Caploe ‘9 (David-, CEO American Centre for Applied Liberal Arts and Humanities in Asia, April 7, Straits Times, “Focus still on America to lead global recovery”)

IN THE aftermath of the G-20 ……. to be solved there too.

#### Global economic collapse causes nuclear war

Mead 09 Senior Fellow in U.S. Foreign Policy at the Council on Foreign Relations, Only Makes You Stronger, The New Republic, [www.tnr.com/politics/story.html?id=571cbbb9-2887-4d81-8542-92e83915f5f8&p=2](http://www.tnr.com/politics/story.html?id=571cbbb9-2887-4d81-8542-92e83915f5f8&p=2)

The greatest danger both …. still have to fight.

## Kritik

#### The 1AC’s enframing of strategic and technical reason reifies an ontology and epistemology of violence—their technological worldview reduces all beings to standing-reserve and guarantees extinction

Burke 7—Associate Professor of Politics and International Relations in the University of New South Wales (Anthony, Theory & Event, Volume 10, Issue 2, 2007, “Ontologies of War: Violence, Existence and Reason,” Project MUSE)

This essay develops a theory ….. and with limited impact -- it permeates being.

#### The judge should take on the role of the intellectual – vote negative to exchange the ontology of being for one of becoming—this free relationship to technology entails a questioning that can break free from technological thought and re-imagine the world from outside the political space

Burke 7—Associate Professor of Politics and International Relations in the University of New South Wales (Anthony, Theory & Event, Volume 10, Issue 2, 2007, “Ontologies of War: Violence, Existence and Reason,” Project MUSE)

I was motivated to begin …….. and violence? Will our thought?

## Asteroid Collision

#### C) Probability—Long timeframes decrease it—the more distant the prediction, the more likely it is to be wrong

POSNER 2004 (Richard, US Court of Appeals judge and Senior Lecturer at the University of Chicago Law School, Catastrophe: Risk and Response 17)

A compelling reason ……..likely, on that timescale.

#### D) Conditional probability—short-timeframe existential risks effectively decrease the probability of long-timeframe ones—we can only die once

BOSTROM 2011 (Nick, Prof. of Philosophy at Oxford, The Concept of Existential Risk (Draft), http://www.existentialrisk.com/concept.html)

Finally, when considering …….since we can only be eradicated once.

#### War outweighs everything else

AYERS 2006 (William, distinguished professor of education and senior university scholar at the University of Illinois at Chicago, Phi Delta Kappan, April)

A little truth-telling, ………..will also be sacrificed. Beyond imagination.

#### Squo Solves -

#### 1) Pan – STARRS solves in the status quo – make them read evidence post this new program

Pittsburgh Post-Gazette 9/15 [“NEW OBSERVATORY TO DETECT ASTEROIDS AND COMETS” nexis, lpomahony]

The Panoramic Survey Telescope …….collide with our planet.

#### 2) Squo solves the asteroids your impact cards are referring to – none could kill us for centuries and we will find the rest by 2020 – prefer recency on studies

AP 9/29 [“NASA IDs 90 pct. of largest near-Earth asteroids” nexis, lpomahony]

If you're worried ………35 percent complete.

#### And – turn – current deflection technologies risk shattering the asteroids and creating new impactors

Olympio, 10 [Joris T., “Optimal Control of Gravity-Tractor Spacecraft for Asteroid Deflection,” JOURNAL OF GUIDANCE, CONTROL, AND DYNAMICS Vol. 33, No. 3, May–June 2010, http://www.esa.int/gsp/ACT/doc/MAD/ACT-RPR-MAD-2010-GravityTractorOCP.pdf]

Near-earth objects (NEOs) …….to avert an impact.

#### It’s a one in a million chance and we’d know decades in advance

HENRY FOUNTAIN- NYT- November 19, 2002, Armageddon Can Wait: Stopping Killer Asteroids, http://www.nytimes.com/2002/11/19/science/space/19ASTE.html?pagewanted=1

There are several detection …… be detected decades in advance.

#### Low probability of impact- threats are sensationalized

Schweickart- 1ac author and Chair of B612 Foundation- ‘4 (Russell L., Chair of the B612 Foundation, former astronaut, Executive Vice President of CTA Commercial Systems, Inc. and Director of Low Earth Orbit (LEO) Systems and research, and scientist at the Experimental Astronomy Laboratory of the Massachusetts Institute of Technology (MIT), “Asteroid Deflection; Hopes and Fears,” Aug., Presented at the World Federation of Scientists Workshop on Planetary Emergencies, Erice, Sicily, August 2004 http://www.b612foundation.org/papers/Asteroid\_Deflection.doc)

All the while the ………horizon for projecting orbits forward in time.

## Accidental War

#### Focusing on low probability high impact events are key to effective policymaking

Wagner 8 ([Cynthia G Wagner](javascript:void(0);). [The Futurist](http://proquest.umi.com.www2.lib.ku.edu:2048/pqdweb?RQT=318&pmid=22993&TS=1235163055&clientId=42567&VInst=PROD&VName=PQD&VType=PQD). Washington: [Jan/Feb 2008](http://proquest.umi.com.www2.lib.ku.edu:2048/pqdweb?RQT=572&VType=PQD&VName=PQD&VInst=PROD&pmid=22993&pcid=37836731&SrchMode=3). Vol. 42, Iss. 1; pg. 6)

"Failure of imagination" gets ……..from multiple sources.

#### Even if nuclear war is usually a low probability our disad links prove it’s now likely to happen

Chirp 6 (November 6, pg. <http://reports.typepad.com/pandemic_plan/> 2006/11/low\_probability.html)

"Low probability" does ……..would be high - perhaps very high

#### Nationalism, economics, and security make war likely

Mearsheimer 99 (John J., pg. http://www.ciaonet.org.www2.lib.ku.edu:2048/conf/cfr10/cfr10.html)

Now I think the ………other great powers.

#### Prefer our evidence- a majority of political scientists conclude war could still happen

Mearsheimer 99 (John J., pg. http://www.ciaonet.org.www2.lib.ku.edu:2048/conf/cfr10/cfr10.html)

My third and final point ………competition to fill that.

#### OUR EV IS SCIENTIFIC AND YOURS IS POLITICAL – NUCLEAR WAR CREATES MULTIPLE SCENAREOS FOR EXTINCTION\*\*\*

Starr 2000 – Nuclear Engineer; http://cndyorks.gn.apc.org/news/articles/nwinter.htm

You would think that ……….destroying the Northern Hemisphere.

# 2AC

## Plan Flaw

**Acronyms good- they’re the best option when writing- eliminating them would only reduce clarity.**

**Liberman 11.** (Mark, Christopher H. Browne Distinguished Professor of Linguistics at the University of Pennsylvania, Director of the Linguistic Data Consortium, Faculty Director of College Houses and Academic Services, Professor in the Department of Computer and Information Science. “An independent establishment is an establishment which is not part of an independent establishment” April 20, 2011. <http://languagelog.ldc.upenn.edu/nll/?p=3101> ps)

Matt Negrin at Politico is ….**passage where it's used.**

## T-Staffed

**C/I**

**Space exploration includes telepresence and operation – human presence isn’t necessary**

**Lester 9** –Ph. D. Research Fellow at the University of works on the Stratospheric Observatory for Infrared Astronomy, providing science and management policy, and is representing the astronomical community on the Lunar Exploration Roadmap effort he serves on the congressionally chartered Astronomy and Astrophysics Advisory Committee (AAAC), which reviews and provides advisory oversight and coordination of both space and ground-based astronomical research at NASA, NSF and DOE (Daniel F., “Visions of exploration” *Space Policy* Volume 25, Issue 4, November 2009, Pages 236-243)

What to do? There … relevant distinction.

**‘of space’ indicates that space must be the object of exploration or development – solves their limits claims**

**Bockstiegel 95 –**Ph D., Directitor of the Institute of Air and Space Law, Chairman of the Space Law Committee of the International Law Association; Chairman of Council of the National German Space Agency (Dr. Karl-Heinz, 1995, “Research and invention in outer space: liability and intellectual property rights” pg 4.)

The official title of …….. considered as ‘use’ of space.

## Accidental War

**States wouldn’t target cities – waste of warheads**

**KEARNY 2003** (Cresson, scientist recruited by Nobel Prize Laureate and Manhattan Project Scientist Eugene Wigner as researcher for civil defense Oak Ridge National Laboratory, Nuclear War Survival Skills, http://www.oism.org/nwss/s73p904.htm)

Myth: A Russian ……and densely populated areas.

#### No first use – fear of retaliation means the only use is in retaliation to a perceived first strike

**Walsh** (Lieutenant colonel in Air Force) 19**85** “Nuclear War Opposing Viewpoints, p. 51. GENDER MODIFIED

No president or dictator, ……..to a retaliatory holocaust.

#### Launch button checks – no first use of nukes

Kenneth **Waltz** (London: International Institute for Strategic Studies) 19**81** “The Spread of Nuclear Weapons: More May Better”, Adelphi Paper, Numbers 171

Fifth, in some of the new ……. use of nuclear weapons.

## Jackson Vanik

**Extinction risks outweigh everything else regardless of probability**

**MATHENY 2007** (Jason, Department of Health Policy and Management, Bloomberg School of Public Health, Johns Hopkins University, “Reducing the Risk of Human Extinction,” Risk Analysis, Vol 27, No 5)

Even if extinction events ……and those that threaten 100%.

**VAWA passage draining capital**

ABC News 4/27/12 (<http://abclocal.go.com/wabc/story?section=news/politics&id=8638643>)

WASHINGTON -- The Senate …….. political price for doing so."

**Obama clashing with Congress on cybersecurity now**

Christian Science Monitor 4/27/12 (<http://www.csmonitor.com/USA/Latest-News-Wires/2012/0427/House-cybersecurity-vote-sets-up-Senate-showdown-Obama-threatens-veto>)

The U.S. House of Representatives' …… information, complaining that it was too broad.

**Repeal won’t happen – too many skeptics and Magnitsky will tank it**

Chicago Tribune 4/26/12 (<http://articles.chicagotribune.com/2012-04-26/news/sns-rt-us-usa-russia-tradebre83p127-20120426_1_trade-relations-trade-bill-wto-rules>)

Camp noted the PNTR legislation…… ," Camp said. "But it may very likely be part of, but not a condition, of PNTR."

**Obama’s not doing anything on Jackson-Vanik**

Inside U.S. Trade 4/27/12 (“CAMP PLANS JUNE RUSSIA HEARING, BLASTS WHITE HOUSE FOR LACK OF ENGAGEMENT,” Lexis)

House Ways and Means Committee…… ; that will give them May to do that," he said.

**No debate on JV for months**

Inside U.S. Trade 03/16/2012 (“Baucus Eyes Russia MFN Vote After Duma Ratifies WTO Accession,” Lexis)

He signaled that it …… floor vote, he said.

**Won’t pass - Magnitsky**

Ivanov 4/27/12 (Eugene, Russia Beyond the Headlines, <http://rbth.ru/articles/2012/04/27/magnitsky_for_jackson-vanik_a_fair_trade_15417.html>)

In recent weeks, the ….. this “reaction” will be.

#### No impact to polcap

**Dickinson 9**- professor of political science at Middlebury College and taught previously at Harvard University where he worked under the supervision of presidential scholar Richard Neustadt (5/26/09, Matthew, Presidential Power: A NonPartisan Analysis of Presidential Politics, “Sotomayor, Obama and Presidential Power,” http://blogs.middlebury.edu/presidentialpower/2009/05/26/sotamayor-obama-and-presidential-power/)

As for Sotomayor, from here ……..measured through legislative boxscores.

**Fights over space now – bipartisan support for space funding**

**AP 10/2/11** (“ Obama under fire over space plans ” <http://www.google.com/hostednews/afp/article/ALeqM5jEslxGYUGLGYKgQKfZ6fn5LWCnkw?docId=CNG.947744aa7f2a9543ab7c4b0e24b9136c.221>)

WASHINGTON — High-profile critics …….." and said it would "one day allow the first astronauts to set foot on Mars."

**Winners win – empirics**

**Green 2011**  - professor of political science at Hofstra University (June 11, David, “ The Do-Nothing 44th President ” <http://www.opednews.com/articles/The-Do-Nothing-44th-Presid-by-David-Michael-Gree-100611-648.html>)

The fundamental characteristic …….mentioned at the top of this essay are paradigmatic.

The DA isn’t an opportunity cost of the plan – the USFG could do both – opportunity cost is a better interpretation for debate

Asteroid detection popular with DC and public—pre-requisite to travel missions

Berger 10 (Eric Berger, Science Reporter for HOUSTON CHRONICLE; “Next giant leap: With support growing, NASA takes a small step toward walking on an asteroid”; 9/5/2010; http://www.chron.com/disp/story.mpl/nation/7188211.html)

Hollywood fancies that …..asteroid targets needed to be identified.

Plan’s popular with the public

Garver 10; (LORI GARVER, NASA DEPUTY ADMINISTRATOR, master's degree in science, technology and public policy from George Washington University in 1989; Center for Strategic and International Studies; 4/26/10; <http://impact.arc.nasa.gov/news_detail.cfm?ID=184>)

These are truly tangible ………will be even tougher.

**Space policy change is under the political radar – the thesis of their link argument is about cost that is bunk**

**MSNBC, 11** [January, “NASA stuck in limbo as new Congress takes over”http://www.msnbc.msn.com/id/40967788/ns/technology\_and\_science-space/t/nasa-stuck-limbo-new-congress-takes-over/]

Still, NASA's current quagmire may……., not part of the problem."

**Missile defense outweighs**

STRATFOR 2/6/12 “Russia and the United States: Pushing Tensions to the Limit,” <http://www.stratfor.com/analysis/russia-and-united-states-pushing-tensions-limit>

**Tensions between Moscow and ……….**countermeasures against the United States.

**Even small asteroids collapse the global economy – don’t have to hit earth**

**Plait 2011** – PhD from the University of Virginia in astronomy (September, Phil, “ Phil Plait: How to defend Earth from asteroids ” <http://www.ted.com/talks/phil_plait_how_to_defend_earth_from_asteroids.html>)

Now, this is not a 200-mile-……… amount of damage to us as a civilization.

**No impact to economic collapse**

**FERGUSON 2006** (Niall, MA, D.Phil., is the Laurence A. Tisch Professor of History at Harvard University. He is a resident faculty member of the Minda de Gunzburg Center for European Studies. He is also a Senior Reseach Fellow of Jesus College, Oxford University, and a Senior Fellow of the Hoover Institution, Stanford University, Foreign Affairs, Sept/Oct)

Nor can economic crises ……..not followed by wars.

No Russia war –5 reasons

Graham 7 – National Security Advisor [Thomas Graham, senior advisor on Russia in the US National Security Council staff 2002-2007, 9- 2007, “The Dialectics of Strength and Weakness,” Russia in Global Affairs, pg. 19]

An astute historian of ……..relations with Russia.

## Burke

#### Extinction risks outweigh everything else regardless of probability

**MATHENY 2007** (Jason, Department of Health Policy and Management, Bloomberg School of Public Health, Johns Hopkins University, “Reducing the Risk of Human Extinction,” Risk Analysis, Vol 27, No 5)

Even if extinction ……that threaten 100%.

There are no prior questions to problem oriented IR- empirical validity is a sufficient justification for action.

David Owen, Reader of Political Theory at the Univ. of Southampton, Millennium Vol 31 No 3 2002 p. 655-7

Commenting on the ‘philosophical ……dangers, and so a potentially vicious circle arises.

Perm – do both – double bind: either the alt is strong enough to solve for the plan and the status quo or it can’t solve for anything

**Action and reflection on consequences of that action are compatible.**

Padrutt, 92– Psychiatrist and President of the Daseinsanalyse Gesellschaft – 1992 (Hanspeter Padrutt, *Heidegger and the Earth*, “Heidegger and Ecology,” ed. LaDelle McWhorter, P.31)

Once in a while the conceptual…….– that also has consequences.

**Critique of science stifles transition to democratic transhumanism**

**RAMAN 2009** (Varadaraja, Bachelor's and Master's degrees in Physics and Mathematics from the University of Calcutta before doing his doctoral work on the foundations of quantum mechanics at the University of Paris Global Spiral, Feb 6, http://www.metanexus.net/Magazine/ArticleDetail/tabid/68/id/10697/Default.aspx)

Science is in a similar situation now. …..against science seem like mere noises.

**Critiquing technology kills billions of people—the environmental crisis is real, but we need more technology, not less—transhumanism breaks all the limits to a new ecologically healthy world**

**Bostrom 3** PhD from the London School of Economics (Nick, 2003, “Transhumanism FAQ”, http://www.paulbroman.com/myspace/Transhumanism\_FAQ.txt) \

Population increase is an issue …..could scarcely dream of.`

**Recognizing that we can’t see the future means we should try even harder to predict and avoid disasters—we have an ethical responsibility even if we don’t always guess correctly**

**KURASAWA 2004** (Fuyuki Kurasawa is Assistant Professor of Sociology at York University, Toronto, and a Faculty Associate of the Center for Cultural Sociology at Yale University, Constellations, Vol 11, No 4 [Blackwell])

When engaging in the labor ……..sources of harm to our successors.

Alt fails – technological thought is inherently human

Riis 11—Carlsberg Research Fellow and Assistant Professor of Philosophy and Science Studies at Roskilde University, Ph.D. from Albert-Ludwigs-Universität Freiburg (Søren, 8 February 2011, “Towards the origin of modern technology: reconfiguring Martin Heidegger’s thinking,” RBatra)

Martin Heidegger’s radical critique ………by the rule of das Gestell.

The plan bolsters US leadership in space science, enhancing international science diplomacy

IRWIN I. SHAPIRO et al in 10,( Harvard-Smithsonian Center for Astrophysics, Chair FAITH VILAS, MMT Observatory at Mt. Hopkins, Arizona, Vice Chair MICHAEL A’HEARN, University of Maryland, College Park, Vice Chair ANDREW F. CHENG, Johns Hopkins University Applied Physics Laboratory FRANK CULBERTSON, JR., Orbital Sciences Corporation DAVID C. JEWITT, University of California, Los Angeles STEPHEN MACKWELL, Lunar and Planetary Institute H. JAY MELOSH, Purdue University JOSEPH H. ROTHENBERG, Universal Space Network, *Committee to Review Near-Earth Object Surveys and Hazard Mitigation Strategies Space Studies Board Aeronautics and Space Engineering Board Division on Engineering and Physical Sciences*, THE NATIONAL ACADEMIES PRESS, <http://www.fas.harvard.edu/~planets/sstewart/reprints/other/4_NEOReportDefending%20Planet%20Earth%20Prepub%202010.pdf)\>

Many scientists, especially among ……..community to ensure preparedness.

Science diplomacy solves the climate change, resource wars, disease, prolif, terrorism and CBWs

Federoff ‘8 (Nina, 4/2, Science and Technology Adviser to the Secretary of State and the Administrator of USAID, Testimony Before the House Science Subcommittee on Research and Science Education, http://legislative.nasa.gov/hearings/4-2-08%20Fedoroff.pdf)

The welfare and stability …..and create sustainability.

**Bioweapons are bad**

**Levy, 07** (6-8-07, Janet Ellen, The American Thinking, “The Threat of Bioweapons,” <http://www.americanthinker.com/2007/06/the_threat_of_bioweapons.html>, JMP)

Immediately following 9-11, ……..can be developed within days.

# 2NC

## Kritik

#### And – it’s a pre-requisite to effective policymaking

Cheeseman and Bruce 96 – Graeme Cheeseman, Snr. Lecturer @ New South Wales, and Robert Bruce Assoc. Prof in social sciences @ Curtin univ, ‘96 (Discourses of Danger & Dread Frontiers, p. 5-9)

This goal is pursued in………, or choose not to understand them, and why?

#### Their obsession with “policy-relevant” education leads to evidence making resulting in serial policy failure – independent v/i

Jones 9 Lee Jones is lecturer in International Relations at Queen Mary, University of London, BA Honors Univ of Warwick, MA in IR St Anthony’s, PhD IR Nuffield , Journal of Critical Globalization Studies Issue 1 2009

Having conceded where Nye……, Science, and Technology. (p. 127-30)

#### Planetary destruction is inevitable absent a reconceptualization of our relationship with the earth

McWhorter 92 (Ladelle, Asst Prof of Philosophy @ Northeast Missouri State Univ., Heidegger and the Earth, p. x)

In "Earth-Thinking and Transformation," ……to avoid destroying the earth.

#### The threat of asteroids gives privilege to the military-science complex that places it in the role of unquestionable hero. This applies militaristic spatialization to the galaxy in an attempt to control the uncontrollable. This sparks a disciplinary attempt to control the global population in the name of planetary survival.

Felicity Mellor 7, Lecturer in Science Communication at Imperial College London, Colliding Worlds: Asteroid Research and the Legitimization of War in Space, Social Studies of Science 37: 499, http://sss.sagepub.com/content/37/4/499.full.pdf

Since the late 1980s, a small group ……of the civilian and defence scientists were mutually supportive.

#### And, their apocalyptic rhetoric will be co-opted to justify massive violence.

Coviello 2k (Peter, Asst. Prof. English @ Bowdoin College, Apocalypse From Now On)

Perhaps. But to claim that American ……can scarcely be done without.

#### Ontology shapes our responses to ethics and politics – demands prioritization

Dillon 99 (Michael, Prof of Politics @ University of Lancaster, Moral Spaces: Rethinking Ethics and World Politics, p. 98)

In other words, whatever ….technocrats of decision making.

#### Security discourse authorizes state violence as a means of eliminating external threats—this leads to a constant cycle of enemy constructions, turning case

Aradau, Research Associate in the Centre of IR Department of War Studies, King’s College London, in ‘01 [Claudia, , http://venus.ci.uw.edu.pl/~rubikon/forum/claudia2.htm]

Survival refers not ……and eventually violence.

# 1NR

## Politics

#### Broad statistical models prove – unmanaged economic declines lead to global conflict

Royal, Director of cooperative threat reduction, ‘10 [Jedediah, Director of Cooperative Threat Reduction – U.S. Department of Defense, “Economic Integration, Economic Signaling and the Problem of Economic Crises”, Economics of War and Peace: Economic, Legal and Political Perspectives, Ed. Goldsmith and Brauer, p. 213-215]

Less intuitive is how periods …and deserves more attention.

#### Political capital causes passage

CNBC, 4-27-’12 (“US lawmaker urges Obama push on Russia trade bill” http://www.cnbcpakistan.com/US-lawmaker-urges-Obama-push-on-Russia-trade-bill-news-2797.html)

A top Republican lawmaker pressed …..U.S. elections in November.

#### Presidential leadership shapes the agenda

Kuttner 11 (Robert, Senior Fellow – Demos and Co-editor – American Prospect, “Barack Obama's Theory of Power,” The American Prospect, 5-16, http://prospect.org/cs/articles?article=barack\_obamas\_theory\_of\_power)

As the political scientist …moves the public agenda.

#### It’s a top priority and Obama is key to lobby legislators

RIA Novosti, 3/28 (“Anti-Russian Amendment Now Headache for U.S.,” 3/28/2012, Factiva)

**\*\*\*Valery Garbuzov of the Russian Institute of the United States and Canada**

Obama has spoken against ……never removed Russia from its coverage.

#### Obama will water it down which shields fall out

Inside US Trade, 4-27-’12 (“Administration Puts Pressure on Substance, Timing of Magnitsky Bill” lexis)

While the Obama …..join the World Trade Organization.

#### Obama push means Jackson-Vanik will pass now

Wingfield, 4-26-’12 (Brian, “Obama Should Move Quickly on Russia Trade Status, Camp Says” http://www.businessweek.com/news/2012-04-26/obama-should-move-quickly-on-trade-status-for-russia-camp-says)

The Obama administration should intensify its push to grant Russia permanent normal trade relations, which would benefit U.S. companies, the Republican chairman of a House committee that oversees trade issues said. “It’s time for the White House to get out front on this issue,” Representative Dave Camp of Michigan, head of the House Ways and Means Committee, said today in a Washington speech. The U.S. would gain a powerful new enforcement tool by giving Russia improved status, Camp said, as it plans this year to join the World Trade Organization, an international arbiter of disputes among governments. In order for U.S. companies to pay lower tariffs on trade with Russia, Congress must alter the so-called Jackson-Vanik amendment to 1974 trade law, which restricted trade with the former Soviet Union. Camp’s panel plans a hearing in June, giving President Barack Obama’s administration several weeks to push for improved status, he said. Ending Jackson-Vanik is a key priority for the administration, Andrea Mead, a spokeswoman for the U.S. Trade Representative’s office, said in an e-mail. USTR is pleased that the Ways and Means Committee will hold its hearing, she said. “We look forward to working with Congress” on the issue, she said.