# 1NC

### 1

#### Interp – the aff must only defend that the appropriation of outer space by private entities is unjust.

#### Violation – they’re effects topical – extension of the OST by states shows private appropriation is unjust

#### Vote neg for limits: FX T allows them to get out of PICs and disads while artificially causing the resolution to occur. Negs don’t have a topical advocacy to hold them to for links and 1ARs can reclarify the advantage – the counter-interp sets a precedent that the scope of aff fiat doesn’t have to be bounded by the resolution, which outweighs on magnitude.

#### Competing interpretations—it tells the negative what they do and do not have to prepare for.

#### Drop the debater to deter future abuse and because the 2N doesn’t get new disads to whole rez so it’s permanently skewed.

### 2

#### Recognizing that the appropriation of outer space by private entities is unjust, states excluding the Republic of India ought to extend the non-appropriation principle of the Outer Space Treaty of 1967 to private entities.

#### India Soft Power is high now – space is key.

Amaresh 21 Preethi Amaresh 8-6-2021 "The rise of India as a global soft power" <https://www.bridgeindia.org.uk/the-rise-of-india-as-a-global-soft-power/> (political scientist and an author of the books, "Nihonomics" and "Nanmin". She is pursuing her doctoral degree in International Relations from Geneva School of Diplomacy, Switzerland.)//Elmer

More innovative uses of soft power more recently Soft power has been expanded in diverse forms by succeeding governments in India. The government of Narendra Modi at present has been creating innovative trends in the realm of Indian diplomacy by blending contemporary elements of soft power. Today, the state has used specific soft power assets of India such as Diaspora, Yoga, Buddhism and economic support for accomplishing diplomatic triumphs and advancing the nation’s national interests. India’s Ministry of External Affairs (MEA) has determined to promote a “soft power matrix” to measure the effectiveness of the country’s soft power outreach. The goal of the MEA is going to be an indispensable test condition in the aforementioned regard. Initiatives such as ‘Destination India’ and ‘Know India’ have likewise been launched. Cultural centers like the Indian Council for Cultural Relations (ICCR) even organized a national convention ‘Destination India’ initiative for the first time in 2019 which believes that India can move up fast to be a leader of the global knowledge society. ‘Namaste diplomacy’ and ‘Medical diplomacy’ of India today has become the talk post-COVID-19. India’s supremacy in space statesmanship and technology is an added principally induced soft power means with endless prospects. India’s regional diplomacy has reached outer space with the nation launching its GSAT-9, also known as the South Asia Satellite, that aimed to bestow South Asian countries with space-enabled services. As an ancient civilization, India has a throbbing democracy, the largest in the world, a secular spirit and a speedily developing marketplace that grew to become the 5th most booming economy in 2019, overtaking the United Kingdom and France. India, to boost its communication, tourism, culture and soft power, on the whole, will have to forge multilateral and bilateral collaborations with different nations by enhancing its foreign policy and diplomacy. Due to the attractiveness of India’s culture, social values, and foreign policies in addition to the nation’s economic and military might, India will be better placed to join the rank of Asia’s great powers. India, which is expected to become a superpower by 2025, also possesses soft power advantage having a democratic system compared to China’s communist belligerent system. Since the last ten years, India has likewise elevated its indispensable resources in public diplomacy, by applying traditional and innovative channels to create and anchorage its soft power.

#### Private sector key to Indian space efforts

Raghu Krishnan, Raghu Krishnan is the technology editor for the Economic Times. In the over two decades of reporting and managing teams, he has seen the Indian IT industry grow from $ 1 billion to nearly $ 191 billion. He has a deep understanding of the shifts the Indian IT industry has undergone over the years. He has also covered science and India's aerospace R&D industry., 12-7-2020, "New space policy may take local companies global: Sivan," Economic Times, https://economictimes.indiatimes.com/news/science/new-space-policy-may-take-local-companies-global-sivan/articleshow/79599874.cms?from=mdr TDI

Bengaluru: India will draft a new space policy aimed at increasing private investments in the country’s space sector to build companies that are global in scale, Indian Space Research Organisation (Isro) chairman K Sivan told ET. The proposed regulations will be in addition to specific policies planned for launch vehicles, satellite navigation, human space mission and deep space exploration. “We want to create competition and get multiple companies in the space sector that can grow as global leaders,” Sivan said. Over 23 Indian and overseas companies have approached Isro since August seeking to harness assets built over six decades including rockets, satellites, ground stations and satellite imagery. The nodal agency is looking to transfer critical technologies through its commercial arm — New Space India Ltd (NSIL NSE -0.45 %) — to these companies at lower costs. “Space technology is costly. We want to make it viable for Indian industries and help them commercialise these technologies,” said Sivan. “We want to make the technology transfer a very simple and low-cost affair.” Last week, NSIL signed a pact to share technology as well as to allow testing facilities with Chennai-based startup Agnikul Cosmos to build a small rocket that can hurl 100 kg satellites to low-earth orbit. Bengaluru-based Pixxel, which is building India’s first private fleet of earth observation satellites, will launch its first satellite atop the homegrown polar satellite launch vehicle (PSLV) in 2021. So far, the department of space has released drafts of technology transfer policy, remote sensing and satellite communication policy for public comments. These draft policies state that Indian companies can now own and operate satellites, build rockets and launch them from Indian soil and offer satellite-based applications to consumers. The policies also define how sensitive dual-use technologies are to be utilised and stresses on the need for adherence to national and international laws. “The industry players are able to see the sea change (in our policies). They are asking for clarifications on some of them,” said Sivan. He added the policies will be notified after consultations. India is adopting the model of the US space agency National Aeronautics and Space Administration (NASA), which allowed private firms such as SpaceX to get access to its technology and facilities to build reusable rockets that have carried humans to space this year. NASA also allows startups to compete and build vehicles and solutions for its programmes, including deep space missions. The policies are also designed to make India a global hub for satellite manufacturing and launches and providing satellite-based services for global customers. Hyderabad-based Aerospace firm Ananth Technologies is setting up a joint venture with US satellite operator Saturn Satellites, through which it will first build two communication satellites and launch them locally on an Indian rocket. Ananth is the first Indian private company to tap the global market after India opened up its space sector, which allows private firms to build satellites and rockets and offer space services from the country. “Earlier, when IITs produced aero-space engineers, there was not a strong domestic industrial ecosystem to employ them. Today, with our historic reforms in the space sector, the last frontier before humanity has opened up to Indian talent,” Prime Minister Narendra Modi told a Pan IIT conference on Friday. India has nearly 50 space startups in the sector and over 1,000 companies — both small and medium enterprises (SMEs) and large enterprises such as Larsen & Toubro, Godrej Aerospace, Tata Advanced Systems and Hindustan Aeronautics, which have been vendors to Isro, building systems and subsystems for the space programme. After opening the space sector to private firms in August, the department of space formed Indian National Space Promotion and Authorisation Centre (IN-SPACe), a new body that will act as a regulator whose rulings would apply to the space agency as well as private firms in the country. Sivan said an independent board is being set up and an approval is expected from the government by the end of December.

#### Space amplifies other aspects of India’s Soft Power Projection.

Kathayat 20 Sarthak Kathayat 11-1-2020 "Soft Power and India’s Space Diplomacy" <https://niice.org.np/archives/6420> (Media graduate from Guru Gobind Singh Indraprastha University)//Elmer

In international relations, soft power is the ability of any country to persuade other countries to do what it wants without the use of force. According to Joseph Nye Jr., soft power is – getting others to want the outcomes that you want – co-opts people rather than coerces them. As compared to hard power, soft power takes relatively longer to built as its intangible resources develop over a long time. Soft power tends to change other party’s attitude to the end where she acts voluntarily in a way which is different to her usual behaviour. Several characteristics of the current world order like globalisation driven economic interdependence, rise of transnational actors, resurgence of nationalism in weak states, the spread of military technology and the changed nature of international political problems have significantly reduced the effectiveness of hard power strategies. The most noteworthy example of a foreign policy misadventure based solely on hard power strategies is the 2003 US invasion of Iraq. Soft power also has its own weakness. However, the ineffectiveness of soft power strategies is an exception. In longer-term, soft power strategies appear to be more effective in the contemporary world order than the hard power. One such tool of soft power is the space technology and space diplomacy. Space technology are increasingly viewed as a crucial instrument of soft power as states have now understood the direct relation between the technological feats and global prestige that follows. Expertise in rocket science puts a state on a higher pedestal than the countries who are still struggling in the domain. Moreover, expertise in rocket science ensues significant strategic implications. The output delivered has noteworthy social and economic relevance with a massive growth potential. In a broadening concept of security that encompasses other dimensions such as economic, environmental and political, Indian space programme has been distinctive and lucid in the way it simultaneously addresses the requirements of the Indian citizenry and the state collectively in all the dimensions. Despite being challenged by numerous embargoes and technology denial regimes during Cold War, Indian space programme has emerged as the most cost-effective and successful space programme in the world. India’s space programme has been a tremendous achievement for a developing country which despite being faced with many challenges used space as a crucial mechanism to lift its people out of poverty through education, social and economic programmes. With the course of time, India’s space policy has become an intrinsic part of India’s foreign policy to strengthen India’s position as a dominant power in South Asia. Indian Space Programme India’s space programme has been seen making efforts in projecting soft power which is especially evident through its new commitment to planetary exploration and human spaceflight. The Chandrayaan-1 and Mangalyaan-1 mission cleared the fact that India now looks at space as a standard of global standing. India’s soft power has witnessed a progression with an increasingly successful participation in global space economy through ISRO’s commercial arm, Antrix Corporation. India’s growing influence on the global space economy has been an indication of its changing stature in international arena. India has also been involved in capacity building initiatives. It has successfully established itself as a leader in terms of healthcare provisions through satellite-based telemedicine. India hosts the largest telemedicine network in South Asia which has also expanded to the African continent. A non-profit Indian organisation named Apollo Telemedicine Networking Foundation has been involved in telemedicine services with dedicated centres in Iraq, Yemen, Kazakhstan and Myanmar. India’s Space Diplomacy Further using space for diplomacy in order to project its soft power across the globe, India has assisted countries like Colombia in launching its satellite which boosted India-Colombia relations. Many Latin American countries are often dependent on the US for space and military matters. However, after the launch, many countries like Argentina, Bolivia, Brazil, Chile, Ecuador, Mexico, Nicaragua and Venezuela have reached out to ISRO for launching or developing satellites. Similarly, India’s PSLV also launched Israel’s TecSar satellite in 2008 for remote sensing purposes. The launch boosted the political and strategic relations with Israel. Once a recipient of space technology from developed countries, India has demonstrated the robustness of its own space programmes by setting up joint projects and even providing assistance at the time of disaster to a number of countries. ISRO’s Oceansat-2 satellite played a pertinent role in monitoring Hurricane Sandy and helping the authorities to implement timely disaster mitigation and rescue strategies. Adding more feathers to its hat, ISRO has also launched dozens of satellites for US, Europe and Britain based companies. The recent launches of British reconnaissance satellites, NovaSAR and S1-4 are a sign of what could come next. Britain is one of the EU’s biggest spender in space sector. After Brexit, the dispute over Britain’s continued access to the European Union’s Galileo satellite navigation project will inevitably lead Britain look for alternatives and India’s space ambitions could offer a tempting proposition within the ambit of wider bilateral cooperation. As a part of India’s efforts in space diplomacy, ISRO undertook another capacity building initiative ‘Unispace Nanosatellite Assembly and Training (UNNATI)’. Under UNNATI, ISRO planned to train 45 countries in making Nano-satellites. Closer to home, India proposed a SAARC satellite in 2014 for the overall development of the region. The proposal was welcomed by SAARC nations but unfortunately the proposal couldn’t materialise as envisioned initially due to Pakistan’s backing out from the project. However, three years later, in 2017, ISRO launched the South Asia satellite or GSAT-9 to help India’s neighbouring countries in space communication. The idea of South Asia satellite ensured no political impediment as with the case of SAARC satellite. The positive spill over effect of the satellite’s launch on India’s “neighbourhood first” diplomacy was well demonstrated by the warm responses given by the leaders of South Asian countries. India’s space diplomacy with neighbours also extends on a bilateral basis. For instance, in Afghanistan, India included remote sensing satellite transmitters for acquiring space-based data in a USD 1.2 billion aid package. It is evident that soft power strategies are more relevant than the hard power strategies, especially in the contemporary world order. The rise of China as an emerging superpower is backed with its economic and military might leave less avenues for other developing nations such as India to contest China. However, soft power strategies open up another dimension for the interaction of the nations. India has utilised space as a tool of its soft power effectively in order to expand its clout. That space being an intrinsic part of India’s foreign policy has brought numerous achievements to the country, and is expected to remain an essential element for future course of India’s foreign policy.

#### Indian leadership is key to stability in the South China Sea.

**Bhalla 21** [Abhishek Bhalla, Abhishek Bhalla is an Editor with India Today TV chasing news stories on defence, strategic affairs, security and conflict. His work takes him to military zones to report accurately on the ground realities. Working as a journalist since 2005, his experience spans working across platforms -- newspaper, magazine, broadcast and now trying new things on the digital space. In the past has extensively covered crime, investigationg agencies and courts. 6-16-2021, accessed on 11-2-2021, India Today, "India supports freedom of navigation in int’l waterways like South China Sea: Defence Minister Rajnath Singh ", <https://www.indiatoday.in/india/story/india-navigation-south-china-sea-defence-minister-rajnath-singh-china-1815476-2021-06-16>] Adam

India supports freedom of navigation, over flight, and unimpeded commerce in these international waterways, Defence Minister Rajnath Singh said on Wednesday as he spoke about maritime security challenges and made a reference to developments in the South China Sea hinting at China’s expansionist policy. “The sea lanes of communication are critical for peace, stability, prosperity and development of the Indo-Pacific region. In this regard, developments in the South China Sea have attracted attention in the region and beyond,” Rajnath Singh said in his address at the eighth meeting of defence ministers from the Association of Southeast Asian Nations (Asean). Rajnath Singh was referring to the escalating territorial conflict in the South China Sea. China lays claim to nearly all of South China leading to tensions over territorial rights in the waters with Brunei, Indonesia, Malaysia, Philippines, Taiwan, and Vietnam. Earlier this month, Malaysia scrambled jets to intercept Chinese aircraft it accused of breaching its airspace. “India hopes that the Code of Conduct negotiations will lead to outcomes that are in keeping with international law, including the United Nations Convention on the Law of the Sea (UNCLOS) and do not prejudice the legitimate rights and interests of nations that are not a party to these discussions,” he said. India calls for a free, open and inclusive order in the Indo-Pacific, based upon respect for sovereignty and territorial integrity of nations, peaceful resolution of disputes through dialogue and adherence to international rules and laws, Rajnath Singh said. The ministers gathered online for a meeting hosted by Brunei, this year's Asean chair. “India has strengthened its cooperative engagements in the Indo-Pacific based on converging visions and values for promotion of peace, stability, and prosperity in the region,” the minister said. The minister added that India supports the utilisation of Asean-led mechanisms as important platforms for the implementation of our shared vision for the Indo-Pacific. India’s engagement with the South East Asian region, of which ASEAN has been a primary component, is based on its ‘Act East Policy’ announced by PM Narendra Modi in November, 2014. Key elements of this policy are to promote economic cooperation, cultural ties and develop strategic relationships with countries in the Indo-Pacific region through continuous engagement at bilateral, regional and multilateral levels. Talking about terrorism, Singh said terrorism and radicalization are the gravest threats to peace and security that the world is facing today. He said India shares global concerns about terrorism and believes that in an era when networking amongst terrorists is reaching alarming proportions, only through collective cooperation can the terror organizations and their networks be fully disrupted, the perpetrators identified and held accountable, and strong measures are undertaken against those who encourage, support and finance terrorism and provide sanctuary to terrorists. “As a member of the Financial Action Task Force (FATF), India remains committed to combat financing of terrorism,” the minister said. He also asserted that cyber threats loom large, as demonstrated by incidents of ransomware, Wannacry attacks and cryptocurrency thefts and are a cause of concern. A multi-stakeholder approach, guided by democratic values, with a governance structure that is open and inclusive and a secure, open and stable internet with due respect to the sovereignty of countries, would drive the future of cyberspace, Singh said. He also said that India shares a deep connect with Asean and has continued its active engagement in many areas contributing to regional peace and stability, particularly through Asean-led mechanisms.

#### SCS conflict goes nuclear – threat’s underrated.

Talmadge 18 Caitlin Talmadge 10-15-2018 “Beijing’s Nuclear Option: Why a U.S.-Chinese War Could Spiral Out of Control” (Associate Professor of Security Studies at the Edmund A. Walsh School of Foreign Service at Georgetown University)//Elmer

As China’s power has grown in recent years, so, too, has the risk of war with the United States. Under President Xi Jinping, China has increased its political and economic pressure on Taiwan and built military installations on coral reefs in the South China Sea, fueling Washington’s fears that Chinese expansionism will threaten U.S. allies and influence in the region. U.S. destroyers have transited the Taiwan Strait, to loud protests from Beijing. American policymakers have wondered aloud whether they should send an aircraft carrier through the strait as well. Chinese fighter jets have intercepted U.S. aircraft in the skies above the South China Sea. Meanwhile, U.S. President Donald Trump has brought long-simmering economic disputes to a rolling boil. A war between the two countries remains unlikely, but the prospect of a military confrontation—resulting, for example, from a Chinese campaign against Taiwan—no longer seems as implausible as it once did. And the odds of such a confrontation going nuclear are higher than most policymakers and analysts think. Members of China’s strategic com­munity tend to dismiss such concerns. Likewise, U.S. studies of a potential war with China often exclude nuclear weapons from the analysis entirely, treating them as basically irrelevant to the course of a conflict. Asked about the issue in 2015, Dennis Blair, the former commander of U.S. forces in the Indo-Pacific, estimated the likelihood of a U.S.-Chinese nuclear crisis as “somewhere between nil and zero.” This assurance is misguided. If deployed against China, the Pentagon’s preferred style of conventional warfare would be a potential recipe for nuclear escalation. Since the end of the Cold War, the United States’ signature approach to war has been simple: punch deep into enemy territory in order to rapidly knock out the opponent’s key military assets at minimal cost. But the Pentagon developed this formula in wars against Afghanistan, Iraq, Libya, and Serbia, none of which was a nuclear power.

### 3

### Case

#### 1AR theory is skewed towards the aff – a) the 2NR must cover substance and over-cover theory, since they get the collapse and persuasive spin advantage of the 3min 2AR, b) their responses to my counter interp will be new, which means 1AR theory necessitates intervention. Implications – a) reject 1AR theory since it can’t be a legitimate check for abuse, b) drop the arg to minimize the chance the round is decided unfairly, c) use reasonability with a bar of defense or the aff always wins since the 2AR can line by line the whole 2NR without winning real abuse

#### Framework – the role of the ballot is to determine whether the plan is a good idea through evaluation of consequences.

#### 1] Don’t let them weigh the sum total of their impact—they only get to weigh the unique amount solved by the affirmative. Filter the debate through scope of solvency—there’s no impact to root cause if they don’t solve it – answers Biswas

#### 2] No performative or methodological offense, only offense from the plan—reject it cuz it explodes predictable limits, spiking out of neg ground making any discussion qualitatively worse

#### 3] Our impacts matter

#### A] Existential threats outweigh – all life has infinite value and extinction eliminates the possibility for future generations – err negative, because of innate cognitive biases

GPP 17 (Global Priorities Project, Future of Humanity Institute at the University of Oxford, Ministry for Foreign Affairs of Finland, “Existential Risk: Diplomacy and Governance,” Global Priorities Project, 2017, <https://www.fhi.ox.ac.uk/wp-content/uploads/Existential-Risks-2017-01-23.pdf>,

1.2. THE ETHICS OF EXISTENTIAL RISK In his book Reasons and Persons, Oxford philosopher Derek Parfit advanced an influential argument about the importance of avoiding extinction: I believe that if we destroy mankind, as we now can, this outcome will be much worse than most people think. Compare three outcomes: (1) Peace. (2) A nuclear war that kills 99% of the world’s existing population. (3) A nuclear war that kills 100%. (2) would be worse than (1), and (3) would be worse than (2). Which is the greater of these two differences? Most people believe that the greater difference is between (1) and (2). I believe that the difference between (2) and (3) is very much greater. ... The Earth will remain habitable for at least another billion years. Civilization began only a few thousand years ago. If we do not destroy mankind, these few thousand years may be only a tiny fraction of the whole of civilized human history. The difference between (2) and (3) may thus be the difference between this tiny fraction and all of the rest of this history. If we compare this possible history to a day, what has occurred so far is only a fraction of a second.65 In this argument, it seems that Parfit is assuming that the survivors of a nuclear war that kills 99% of the population would eventually be able to recover civilisation without long-term effect. As we have seen, this may not be a safe assumption – but for the purposes of this thought experiment, the point stands. What makes existential catastrophes especially bad is that they would “destroy the future,” as another Oxford philosopher, Nick Bostrom, puts it.66 This future could potentially be extremely long and full of flourishing, and would therefore have extremely large value. In standard risk analysis, when working out how to respond to risk, we work out the expected value of risk reduction, by weighing the probability that an action will prevent an adverse event against the severity of the event. Because the value of preventing existential catastrophe is so vast, even a tiny probability of prevention has huge expected value.67 Of course, there is persisting reasonable disagreement about ethics and there are a number of ways one might resist this conclusion.68 Therefore, it would be unjustified to be overconfident in Parfit and Bostrom’s argument. In some areas, government policy does give significant weight to future generations. For example, in assessing the risks of nuclear waste storage, governments have considered timeframes of thousands, hundreds of thousands, and even a million years.69 Justifications for this policy usually appeal to principles of intergenerational equity according to which future generations ought to get as much protection as current generations.70 Similarly, widely accepted norms of sustainable development require development that meets the needs of the current generation without compromising the ability of future generations to meet their own needs.71 However, when it comes to existential risk, it would seem that we fail to live up to principles of intergenerational equity. Existential catastrophe would not only give future generations less than the current generations; it would give them nothing. Indeed, reducing existential risk plausibly has a quite low cost for us in comparison with the huge expected value it has for future generations. In spite of this, relatively little is done to reduce existential risk. Unless we give up on norms of intergenerational equity, they give us a strong case for significantly increasing our efforts to reduce existential risks. 1.3. WHY EXISTENTIAL RISKS MAY BE SYSTEMATICALLY UNDERINVESTED IN, AND THE ROLE OF THE INTERNATIONAL COMMUNITY In spite of the importance of existential risk reduction, it probably receives less attention than is warranted. As a result, concerted international cooperation is required if we are to receive adequate protection from existential risks. 1.3.1. Why existential risks are likely to be underinvested in There are several reasons why existential risk reduction is likely to be underinvested in. Firstly, it is a global public good. Economic theory predicts that such goods tend to be underprovided. The benefits of existential risk reduction are widely and indivisibly dispersed around the globe from the countries responsible for taking action. Consequently, a country which reduces existential risk gains only a small portion of the benefits but bears the full brunt of the costs. Countries thus have strong incentives to free ride, receiving the benefits of risk reduction without contributing. As a result, too few do what is in the common interest. Secondly, as already suggested above, existential risk reduction is an intergenerational public good: most of the benefits are enjoyed by future generations who have no say in the political process. For these goods, the problem is temporal free riding: the current generation enjoys the benefits of inaction while future generations bear the costs. Thirdly, many existential risks, such as machine superintelligence, engineered pandemics, and solar geoengineering, pose an unprecedented and uncertain future threat. Consequently, it is hard to develop a satisfactory governance regime for them: there are few existing governance instruments which can be applied to these risks, and it is unclear what shape new instruments should take. In this way, our position with regard to these emerging risks is comparable to the one we faced when nuclear weapons first became available. Cognitive biases also lead people to underestimate existential risks. Since there have not been any catastrophes of this magnitude, these risks are not salient to politicians and the public.72 This is an example of the misapplication of the availability heuristic, a mental shortcut which assumes that something is important only if it can be readily recalled. Another cognitive bias affecting perceptions of existential risk is scope neglect. In a seminal 1992 study, three groups were asked how much they would be willing to pay to save 2,000, 20,000 or 200,000 birds from drowning in uncovered oil ponds. The groups answered $80, $78, and $88, respectively.73 In this case, the size of the benefits had little effect on the scale of the preferred response. People become numbed to the effect of saving lives when the numbers get too large. 74 Scope neglect is a particularly acute problem for existential risk because the numbers at stake are so large. Due to scope neglect, decision-makers are prone to treat existential risks in a similar way to problems which are less severe by many orders of magnitude. A wide range of other cognitive biases are likely to affect the evaluation of existential risks.75

#### Evaluate the plan before discourse---focusing on their theory and requiring the Aff to defend every assumption collapses global progress

David A. Lake 14. University of California, San Diego, USA. “Theory is dead, long live theory: The end of the Great Debates and the rise of eclecticism in International Relations.” European Journal of International Relations 19(3) 567–587

More important, as Kuhn (1970) first argued, progress is only possible within paradigms. OEP and democratic peace theory, described above, made progress only through sets of shared assumptions and common epistemologies and ontologies that allowed theory to be extended to new topics, additional hypotheses to be deduced, and propositions confronted with evidence according to agreed-upon standards. Were researchers in each area forced to defend their methodological, epistemological, and ontological assumptions at every turn, progress within the approach would have been severely hampered. As these research programs have developed, they have been increasingly challenged by accumulated anomalies, as expected, and will either be revised or superseded by some future theory. Although I have not reviewed research in the postpositivist approach in similar detail in this article, and others are undoubtedly better qualified to address this question, I see similar progress in the feminist security studies program from the early works of Enloe (1990) that opened the political space to include women, to Tickner’s (1992) agenda-setting work, to more recent and substantive applications that reveal and highlight the ways in which gender deeply structures world politics (see Sjoberg, 2010; Sjoberg and Via, 2010; Towns, 2010). This too would have been even more difficult if researchers were forced to debate first principles at every turn. Within both positivist and post-positivist approaches, progress occurs within paradigms according to their own criteria for evaluating that progress. This suggests letting each paradigm develop on its own in its own fashion.

In the end, I prefer progress within paradigms rather than war between paradigms, especially as the latter would be inconclusive. The human condition is precarious. This is still the age of thermonuclear weapons. Globalization continues to disrupt lives as countries realign their economies on the basis of comparative advantage, production chains are disaggregated and wrapped around the globe, and financial crises in one country reverberate around the planet in minutes. Transnational terrorism threatens to turn otherwise local disputes into global conflicts, and leave everyone everywhere feeling unsafe. And all the while, anthropomorphic change transforms the global climate with potentially catastrophic consequences. Under these circumstances, we as a society need all the help we can get. There is no monopoly on knowledge. And there is no guarantee that any one kind of knowledge generated and understood within any one epistemology or ontology is always and everywhere more useful than another. To assert otherwise is an act of supreme intellectual hubris.

This is not a plea to let a hundred, a thousand, or ten thousand intellectual flowers bloom. Scholars working in cloistered isolation are not likely to produce great insights, especially when the social problems besetting us today are of such magnitude. All knowledge must be disciplined. That is, knowledge must be shared by and with others if it is to count as knowledge. Positivists and post-positivists are each working hard to improve and clarify the standards of knowledge within their respective paradigms. This is an important turn for both, as it will facilitate progress within each even as it raises barriers to exchange across approaches. So, if not a thousand flowers, it is perhaps better for teams of scholars to tend a small number of separate gardens, grow what they can best, and share when possible with the others and, especially, the broader societies of which they are part.

Do not mourn the end of theory, if by theory we mean the Great Debates in International Relations. Too often, the Great Debates and especially the paradigm wars became contests over the truth status of assumptions. Declarations that ‘I am a realist’ or pronouncements that ‘As a liberal, I predict …’ were statements of a near quasi-religious faith, not conclusions that followed from a falsifiable theory with stronger empirical support. Likewise, assertions that positivism or post-positivism is a better approach to understanding world politics are similarly blinding. The Great Debates were too often academic in the worst sense of that term. Mid-level theory flourished in the interstices of these debates for decades and now, with the waning of the paradigm wars, is coming into its own within the field. I regard this as an entirely positive development. We may be witnessing the demise of a particular kind of grand theory, but theory — in the plural — lives. Long may they reign.

#### Apocalyptic images challenge dominant power structures – they contest the implausibility of inequitable structures producing catastrophe and generate imagination of futures of social justice outside of current narratives

Jessica Hurley 17, Assistant Professor in the Humanities at the University of Chicago, “Impossible Futures: Fictions of Risk in the Longue Durée”, Duke University Press, <https://read.dukeupress.edu/american-literature/article/89/4/761/132823/Impossible-Futures-Fictions-of-Risk-in-the-Longue>

* Squo power structures (i.e. what the K criticizes) paint themselves as stable/inevitable to project their power and maintain dominance
* Questioning that stability thru extinction narratives questions squo world orders bc it calls into ques the idea of squo world stability which allows us to envision alternative worlds/future i.e. one where it fails and causes extinction
* Justifies extinction focus and preventing extinction in the name of changing those squo structures

If contemporary ecocriticism has a shared premise about environmental risk it is that genre is the key to both perceiving and, possibly, correcting ecological crisis. Frederick Buell’s 2003 From Apocalypse to Way of Life: Environmental Crisis in the American Century has established one of the most central oppositions of this paradigm. As his title suggests, Buell tells the story of a discourse that began in the apocalyptic mode in the 1960s and 70s, when discussions of “the immanent end of nature” most commonly took the form of “prophecy, revelation, climax, and extermination” before turning away from apocalypse when the prophesied ends failed to arrive (112, 78). Buell offers his suggestion for the appropriate literary mode for life lived within a crisis that is both unceasing and inescapable: new voices, “if wise enough….will abandon apocalypse for a sadder realism that looks closely at social and environmental changes in process and recognizes crisis as a place where people dwell” (202-3). In a world of threat, Buell demands a realism that might help us see risks more clearly and aid our survival.¶ Buell’s argument has become a broadly held view in contemporary risk theory and ecocriticism, overlapping fields in the social sciences and humanities that address the foundational question of second modernity: “how do you live when you are at such risk?” (Woodward 2009, 205).1 Such an assertion, however, assumes both that realism is a neutral descriptive practice and that apocalypse is not something that is happening now in places that we might not see, or cannot hear. This essay argues for the continuing importance of apocalyptic narrative forms in representations of environmental risk to disrupt conservative realisms that maintain the statusquo. Taking the ecological disaster of nuclear waste as my case study, I examine two fictional treatments of nuclear waste dumps that create different temporal structures within which the colonial history of the United States plays out. The first, a set of Department of Energy documents that use statistical modeling and fictional description to predict a set of realistic futures for the site of the Waste Isolation Pilot Plant in New Mexico (1991), creates a present that is fully knowable and a future that is fully predictable. Such an approach, I suggest, perpetuates the state logics of implausibility that have long undergirded settler colonialism in the United States. In contrast, Leslie Marmon Silko’s contemporaneous novel Almanac of the Dead (1991) uses its apocalyptic form to deconstruct the claims to verisimilitude that undergird state realism, transforming nuclear waste into a prophecy of the end of the United States rather than a means for imagining its continuation. In Almanac of the Dead, the presence of nuclear waste introjects a deep-time perspective into contemporary America, transforming the present into a speculative space where environmental catastrophe produces not only unevenly distributed damage but also revolutionary forms of social justice that insist on a truth that probability modeling cannot contain: that the future will be unimaginably different from the present

, while the present, too, might yet be utterly different from the real that we think we know.¶ Nuclear waste is rarely treated in ecocriticism or risk theory, for several reasons: it is too manmade to be ecological; its catastrophes are ongoing, intentionally produced situations rather than sudden disasters; and it does not support the narrative that subtends ecocritical accounts of risk perception in which the nuclear threat gives rise to an awareness of other kinds of threat before reaching the end of its relevance at the end of the Cold War.2 In what follows, I argue that the failure of nuclear waste to fit into the critical frames created by ecocriticism and risk theory to date offers an opportunity to expand those frames and overcome some of their limitations, especially the impulse towards a paranoid, totalizing realism that Peter van Wyck (2005) has described as central to ecocriticism in the risk society. Nuclear waste has durational forms that dwarf the human. It therefore dwells less in the economy of risk as it is currently conceptualized and more in the blown-out realm of deep time. Inhabiting the temporal scale that has recently been christened the Anthropocene, the geological era defined by the impact of human activities on the world’s geology and climate, nuclear waste unsettles any attempt at realist description, unveiling the limits of human imagination at every turn.3 By analyzing risk society through a heuristic of nuclear waste, this essay offers a critique of nuclear colonialism and environmental racism. At the same time, it shows how the apocalyptic mode in deep time allows narratives of environmental harm and danger to move beyond the paranoid logic of risk. In the world of deep time, all that might come to pass will come to pass, sooner or later. The endless maybes of risk become certainties. The impossibilities of our own deaths and the deaths of everything else will come. But so too will other impossibilities: talking macaws and alien visitors; the end of the colonial occupation of North America, perhaps, or a sudden human determination to let the world live. The end of capitalism may yet become more thinkable than the end of the world. Just wait long enough. Stranger things will happen.¶

#### Empiricism is the only way to understand the world---proves the K doesn’t turn the case and linear predictions are good

Stephen Walt 2005. “The Relationship Between Theory and Policy in International Relations.” Annual Review of Political Science 8: 23-48. Emory Libraries.

First and most obviously, a good theory should be logically consistent and empirically valid, because a logical explanation that is consistent with the available evidence is more likely to provide an accurate guide to the causal connections that shape events.

Second, a good theory is complete; it does not leave us wondering about the causal relationships at work (Van Evera 1997). For example, a theory stating that “national leaders go to war when the expected utility of doing so outweighs the expected utility of all alternative choices” (Bueno de Mesquita & Lalman 1992) may be logically impeccable, but it does not tell us when leaders will reach this judgment. Similarly, a theory is unsatisfying when it identifies an important causal factor but not the factor(s) most responsible for determining outcomes. To say that “human nature causes war,” or even that “oxygen causes war,” is true in the sense that war as we know it cannot occur in the absence of these elements. But such information does not help us understand what we want to know, namely, when is war more or less likely? Completeness also implies that the theory has no “debilitating gaps,” such as an omitted variable that either makes its predictions unacceptably imprecise or leads to biased inferences about other factors (Nincic & Lepgold 2000, p. 28).

A third desideratum is explanatory power. A theory’s explanatory power is its ability to account for phenomena that would otherwise seem mystifying. Theories are especially valuable when they illuminate a diverse array of behavior that previously seemed unrelated and perplexing, and they are most useful when they make apparently odd or surprising events seem comprehensible (Rapaport 1972). In physics, it seems contrary to common sense to think that light would be bent by gravity. Yet Einstein’s theory of relativity explains why this is so. In economics, it might seem counterintuitive to think that nations would be richer if they abolished barriers to trade and did not try to hoard specie (as mercantilist doctrines prescribed). The Smith/Ricardo theory of free trade tells us why, but it took several centuries before the argument was widely accepted (Irwin 1996). In international politics, it seems odd to believe that a country would be safer if it were unable to threaten its opponent’s nuclear forces, but deterrence theory explains why mutual vulnerability may be preferable to either side having a large capacity to threaten the other side’s forces (Wohlstetter 1957, Schelling 1960, Glaser 1990, Jervis 1990). This is what we mean by a powerful theory: Once we understand it, previously unconnected or baffling phenomena make sense.

Fourth, at the risk of stating the obvious, we prefer theories that explain an important phenomenon (i.e., something that is likely to affect the fates of many people). Individual scholars may disagree about the relative importance of different issues, but a theory that deals with a problem of some magnitude is likely to garner greater attention and/or respect than a theory that successfully addresses a puzzle of little intrinsic interest. Thus, a compelling yet flawed explanation for great power war or genocide is likely to command a larger place in the field than an impeccable theory that explains the musical characteristics of national anthems.

Fifth, a theory is more useful when it is prescriptively rich, i.e., when it yields useful recommendations (Van Evera 1997). For this reason, George advises scholars to “include in their research designs variables over which policymakers have some leverage” (George 2000, p. xiv; also Glaser & Strauss 1967, Stein 2000). Yet a theory that does not include manipulable variables may still be useful to policy makers. For example, a theory that explained why a given policy objective was impossible might be very useful if it convinced a policy maker not to pursue such an elusive goal. Similarly, a theory that accurately forecast the risk of war might provide a useful warning to policy makers even if the variables in the theory were not subject to manipulation.

Finally, theories are more valuable when they are stated clearly. Ceteris paribus, a theory that is hard to understand is less useful simply because it takes more time for potential users to master it. Although academics often like to be obscure (because incomprehensibility can both make scholarship seem more profound and make it harder to tell when a particular argument is wrong), opacity impedes scientific progress and is not a virtue in theoreticalwork. An obscure and impenetrable theory is also less likely to influence busy policy makers.

#### No space war – prefer data over political rhetoric

Klimas interviewing Weeden 18 [Brian Weeden, smart space guy. Is the space war threat being hyped? August 3, 2018. https://www.politico.com/story/2018/08/03/space-war-threat-hype-force-760781]

There’s been increasing rhetoric...about the militarization of space and the potential for conflicts on Earth to extend into space. That’s driven in part by reports about anti-satellite testing in Russia and China...The report really grew out of our frustration at the level of publicly available information on this topic.

A lot of what you get are public statements from military leadership or politicians, or sometimes news articles talking about something and it’s really hard to get down to details and...sort through what might be real, what might be hype. Our goal was to dig into the open source material and see what we could determine from a factual standpoint was really going on -- what types of capabilities were being developed and how might they be used in a future conflict.

Ultimately we hoped that would lead to a more informed debate about what U.S. strategy should be to address those threats.

What sort of feedback have you gotten so far?

A lot of the feedback has been either informal or private because a lot of the issues we talk about, people in the government research using classified materials. So it’s difficult for them to give detailed feedback.

In general, the feedback we’ve gotten has been pretty positive. People have said they like the fact that this sort of stuff is being put in the public domain and encouraged us to continue.

Were your findings better or worse than the picture public

discourse paints?

In general, it’s a little bit better. A lot of political rhetoric and news stories focus on the most extreme examples, so using kinetic weapons to blow up satellites. While there is research and development going on to develop those capabilities, what we found is there’s yet to be any publicly-known example of them being used.

What is being used and what seems to be of the most utility are the non-kinetic things, like jamming and cyber attacks. The good news is we have yet to see the most destructive kinetic attacks that can cause really harmful long-term damage to the space environment, but unfortunately we are seeing non-kinetic attacks being used, and that’s likely to continue.